



Groundwater Monitoring 2025 Semiannual Report

for Compliance with the Michigan Part 115 CCR
Solid Waste Regulations

Former Erickson Power Station

Lansing Board of Water & Light

July 30, 2025



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1.0 Introduction

The U.S. Environmental Protection Agency's (EPA) final Coal Combustion Residuals (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), establishes a comprehensive set of requirements for the management and disposal of CCR (or coal ash) in surface impoundments by electric utilities. The Former Erickson Power Station (Erickson or Site) was an electrical power generation facility located at 3725 South Canal Road in Delta Township, Eaton County, Michigan owned and operated by Lansing Board of Water & Light (BWL) (**Figure 1**). Erickson contained a single coal-fired generator that was capable of producing 165 megawatts of electricity. It ceased operations in November 2022. Erickson had three CCR impoundments: the Forebay, Retention Basin, and Clear Water Pond (CWP) (**Figure 2**). The three CCR impoundments were physically closed by removal of CCR in 2024, with ongoing groundwater monitoring.

The BWL Former CCR surface impoundments, Forebay, Retention Basin, and CWP, are not licensed under Part 115 because Michigan Department of Environment, Great Lakes, and Energy (EGLE) denied BWL's permit application; however, BWL continues to work with EGLE and develop compliance documentation for EGLE as if the impoundments were permitted under an operating permit. BWL implements both the federal and state groundwater monitoring programs concurrently to comply with both the federal CCR Rule and Part 115 solid waste rules. The Part 115 permit requirements include approval of a Hydrogeologic Monitoring Plan (HMP) (HDR, 2024c). The current HMP was approved by EGLE and describes the monitoring network, sampling and analysis plan, and data validation and statical procedures for the monitoring program to comply with Part 115 solid waste rules. BWL has expanded the monitoring network; therefore, the HMP was revised and resubmitted to EGLE in July 2024.

BWL completed numerous tasks in the first half of 2025 to characterize the impact to groundwater and progress toward selecting a remedy for corrective action. Between January and June 2025, BWL completed the following tasks listed below:

- Updated the Monitoring Well Installation Report and Groundwater Monitoring Network System Certification, both published on May 15, 2025.
- Performed a Tier I Evaluation for Monitored Natural Attenuation (MNA) of the site contaminants of concern (COCs) related to the former CCR surface impoundments.
- Developed a sampling strategy for collecting soil, groundwater, and well sediments to support subsequent Tier II MNA evaluation and bench tests to evaluate the treatability of groundwater in-situ via various potential reagents.
- Completed the installation of five monitoring wells (MW-19A, MW-19B, MW-19C, MW-19D, and MW-20) along the northern boundary of the BWL property.
- Performed sampling and analysis associated with semiannual assessment monitoring and higher frequency background monitoring for newly installed MW-17 series, MW-18 series, and MW-19 series multi-level wells.



- Completed site restoration efforts for the former Forebay, Retention Basin, and CWP following the removal of CCR source materials.

This Semiannual Groundwater Monitoring Report presents these activities, and the sampling and analysis completed between January and June 2025.

2.0 Facility Description

The Former Erickson Power Station (Erickson or Site) was an electrical power generation facility located at 3725 South Canal Road in Delta Township, Eaton County, Michigan, owned and operated by the Lansing Board of Water & Light (BWL) (**Figure 1**). During active operations, a single coal-fired generator was capable of producing 165 megawatts of electricity and CCR was stored in dewatering tanks (hydro-bins). After the majority of the CCR was removed from the waste stream at the hydro-bins, flow was discharged into the three former CCR impoundments in sequence: the Forebay, Retention Basin, and Clear Water Pond (CWP) (**Figure 2**).

Erickson Power Station ceased coal-fired power generation operations on November 27, 2022. The plant pipelines were washed down and CCR waste ceased to the CCR impoundments on December 29, 2022. The non-CCR stormwater flow to the impoundments ceased January 3, 2023. A CCR removal contractor was selected and mobilized to the site in February 2023 to begin dewatering operations for the three impoundments. The water removed from the surface impoundments was treated onsite, monitored, and discharged into nearby Lake Delta in compliance with a NPDES permit. Ash and liner material was removed and transported offsite to Granger Wood Street Landfill from all three impoundments. Ash removal verification efforts for the Forebay, Retention Basin, and CWP were completed and the removal activities are documented within the CCR Removal Report published for the site on November 4, 2024 and approved by EGLE on November 8, 2024.

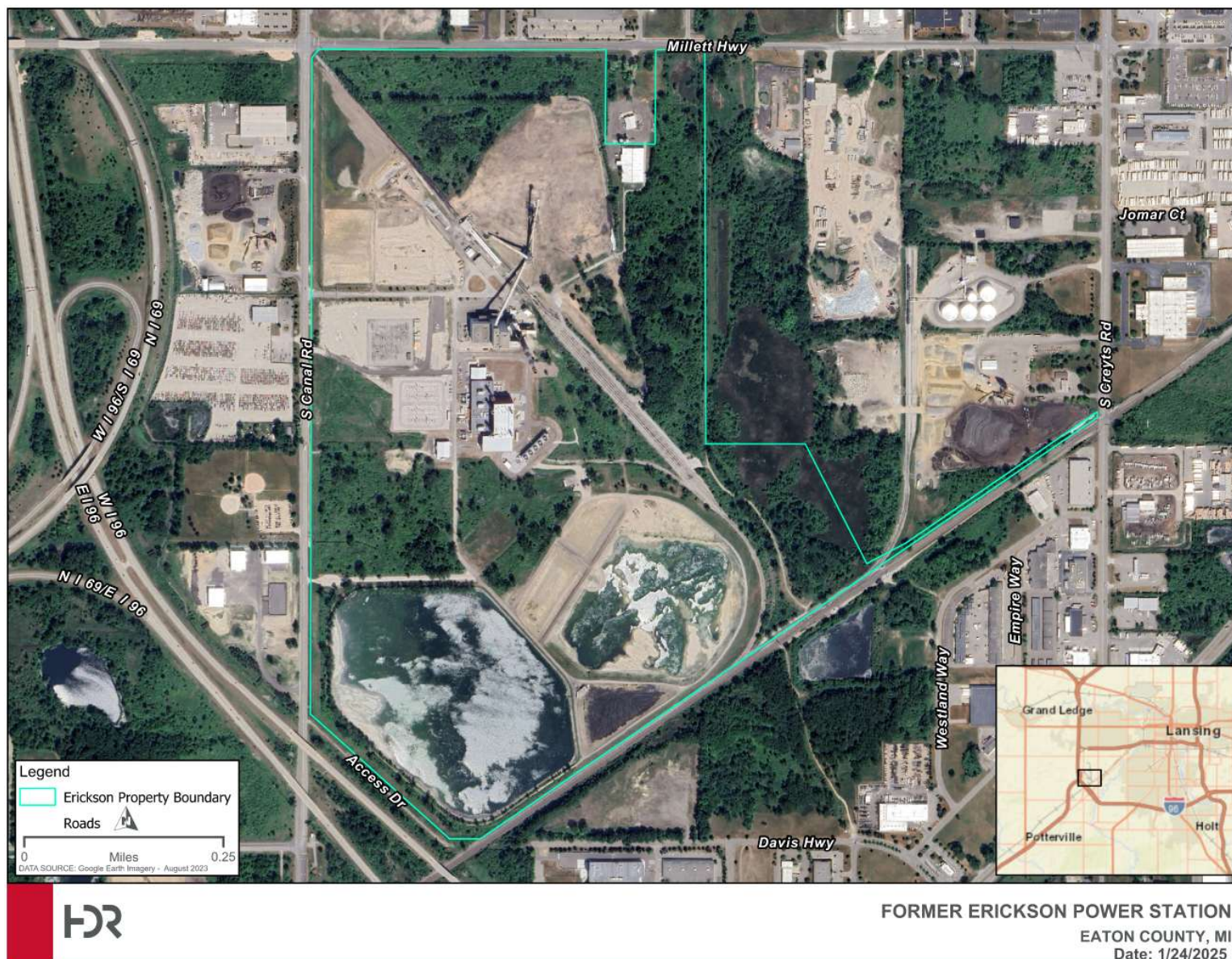


Figure 1. Vicinity Map for Former Erickson Power Station

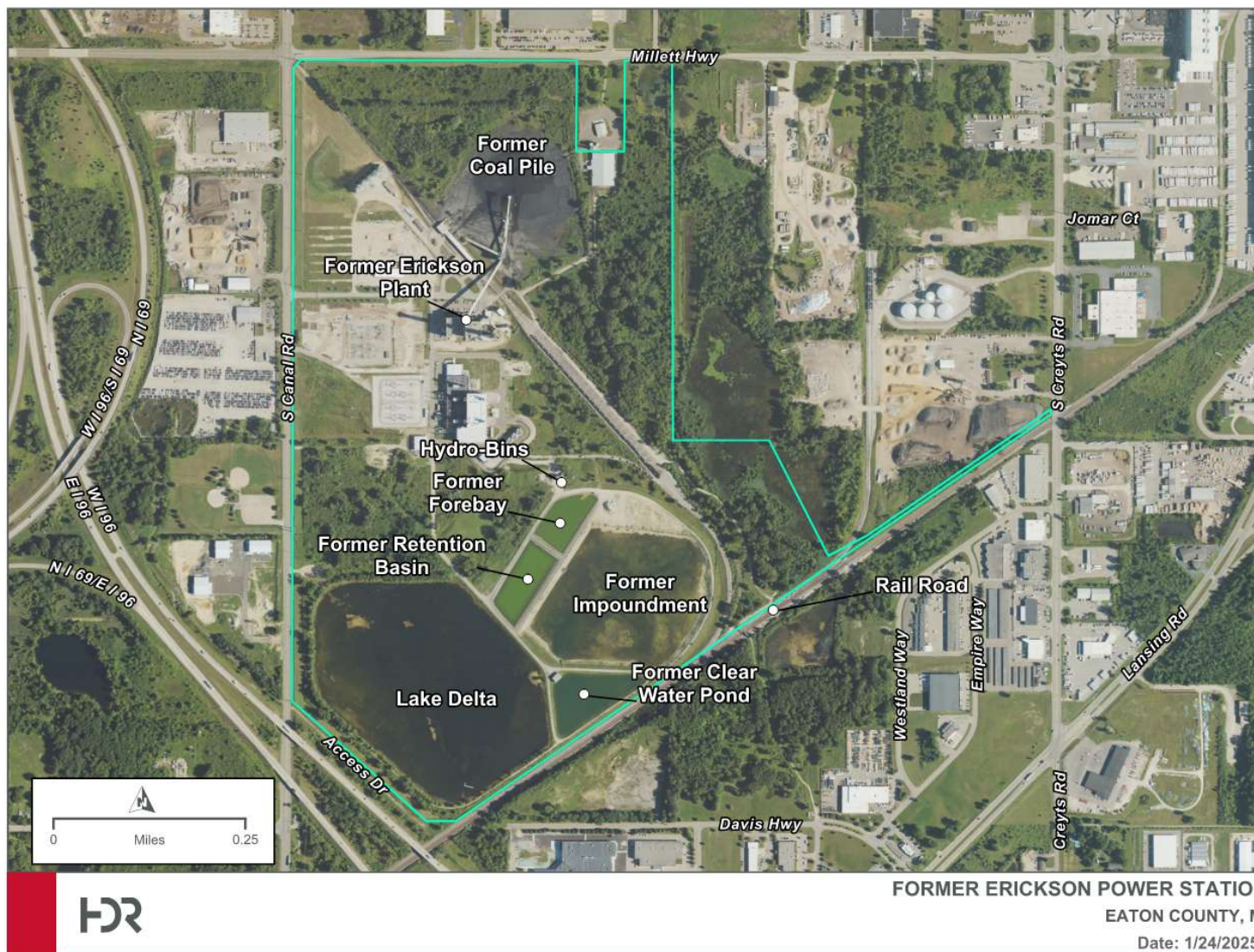


Figure 2. Former Erickson Power Station Facility Layout

2.1 Hydrogeology

The three former CCR impoundments at Erickson Power Station are in areas underlain with unconsolidated clay, silt, sand, and gravel of glacial origin which rest upon approximately 10,000 feet of consolidated bedrock sediments composed of limestone, shale, siltstone, sandstone, salt, and gypsum. Depth to the uppermost aquifer under the impoundments is determined to be approximately 2 to 17 feet below surface. Given the bedrock surface between 36 and 61 feet below surface, the upper glacial aquifer thickness at the site is approximately between 25 and 53 feet thick. The groundwater flow direction is east directly under the former CCR impoundments and remains similar flow direction throughout the year (**Appendix A**). Groundwater further east closer to Creyts Road flows west, back towards the wetland along the BWL eastern property boundary, and groundwater flow turns towards the north following Carrier Creek, consistent with the Carrier Creek Subwatershed topography. Both the glacial and bedrock groundwater flow directions follow the same flow directions.

2.2 Monitoring Well Network

For monitoring in the first half of 2025, the certified monitoring system for the former CCR impoundments includes the following wells (**Figure 3**):

- Glacial aquifer background (upgradient) wells: MW-1, MW-4, MW-11, and MW-12.
- Glacial aquifer waste boundary compliance wells: MW-2, MW-5, MW-6, and MW-14.

2.2.1 Additional Wells

The certified groundwater monitoring system includes additional wells installed to evaluate groundwater downgradient of the impoundments in response to identification of concentrations of constituents at statistically significant levels (SSLs) over GPS in the impoundment compliance wells (**Figure 3**):

- Glacial aquifer wells to evaluate extent of GPS exceedances: MW-7, MW-7C, MW-8, MW-9, MW-10, MW-13, MW-15, MW-16A, MW-16B, MW-17A, MW-17B, MW-17C, MW-18A, MW-18B, MW-19A, MW-19B, MW-100A, MW-100B.
- Bedrock aquifer background (upgradient) wells: MW-11B, MW-12B
- Bedrock aquifer wells to evaluate extent of GPS exceedances: MW-7B, MW-16C, MW-16D, MW-17D, MW-17E, MW-18C, MW-18D, MW-19C, MW-19D, MW-100C, and MW-100D
- Wells included for water level only: MW-20

Five monitoring wells MW-19A, MW-19B, MW-19C, MW-19D, MW-19E, and MW-20 were installed in May 2025 (**Figure 3**). Details regarding the construction of these newly installed wells are included in **Table 1** below. These wells will be included in a revision to the Monitoring Well Installation Report and Groundwater Monitoring Network System Certification later in 2025.

Table 1. Construction Details for Monitoring Well Network Wells Installed in 2025

Well	Screen Interval Elevations (ft amsl)	Aquifer	Screen Lithology
MW-19A	842-852	Glacial	Silty sand, lean clay, sandy lean clay, poorly graded sand
MW-19B	827-832	Glacial	Poorly graded gravel, lean clay with gravel
MW-19C	795-805	Bedrock	Shale (100%)
MW-19D	736-741	Bedrock	Shale (100%)
MW-20	848-858	Glacial	Poorly graded sand, lean clay with sand, silty sand, silty sandy lean clay, poorly graded sand with clay

No wells were repaired or abandoned between January and June 2025.

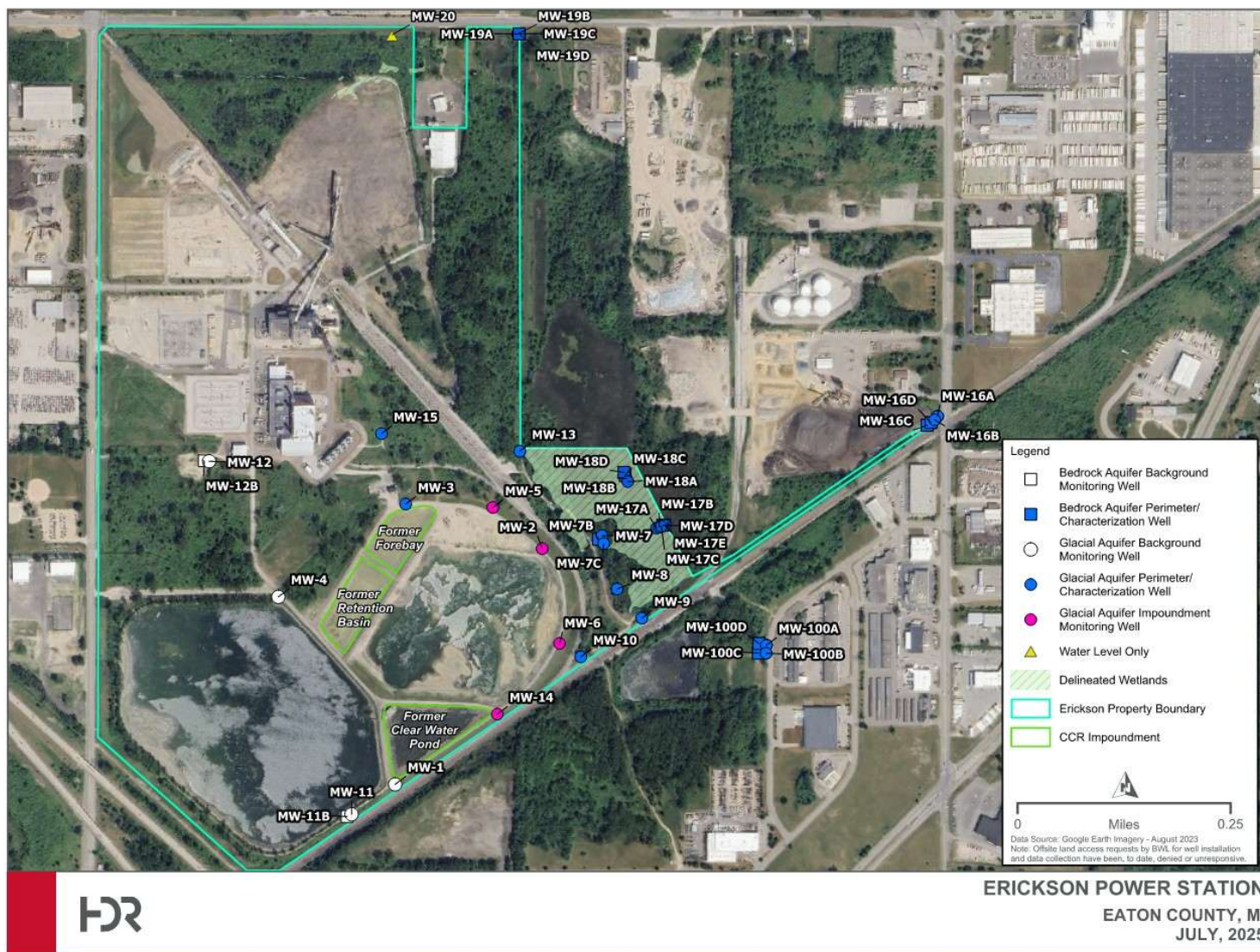


Figure 3. Former Erickson Station CCR Units and Monitoring Wells

3.0 Monitoring

3.1 Groundwater

3.1.1 Frequency

Table 2 provides the well identification number, well location, and the dates and purpose of the samples collected. Assessment monitoring for Erickson during the first half of 2025 was conducted in January and February. The next semiannual assessment monitoring event is scheduled for August.

In May 2025, four new monitoring wells (MW-19 series A-D) and a piezometer to validate the groundwater contours for the site (MW-20) were installed. As new wells are added to the monitoring system, they are initially sampled on a 5-week frequency for a total of eight rounds to establish background in each well per §257.94(b). This expedited frequency develops the statistical strength recommended before using the data in the semiannual sampling events, provided the evaluation of the data for autocorrelation is acceptable. After the initial eight sampling events are completed, semiannual sampling aligns with the above sampling schedule.

Well series MW-17 and MW-18 are located within the wetland along the eastern property border. Seasonal conditions between March and June resulted in ponded water near the wells, which prevented access for samplers and sampling equipment. Therefore, only five sampling events have been completed for newly installed MW-17 series wells and six sampling events have been completed for the newly installed MW-18 series wells to date. Two sampling events have been completed for the MW-19 series wells.

Table 2. Dates of Groundwater Samples Collected for each Well between January and June 2025 and Monitoring Purpose for the Erickson Impoundments

Monitoring Well I.D.	Well Location	Aquifer Monitored	Dates Monitored	Monitoring Purpose
MW-1	Background/Upgradient	Glacial	February 4, 2025	Assessment Monitoring
MW-2	Downgradient	Glacial	February 4, 2025	Assessment Monitoring
MW-3	Cross-Gradient	Glacial	February 6, 2025	Assessment Monitoring
MW-4	Background/Upgradient	Glacial	February 4, 2025	Assessment Monitoring
MW-5	Downgradient	Glacial	February 4, 2025	Assessment Monitoring
MW-6	Downgradient	Glacial	February 4, 2025	Assessment Monitoring
MW-7	Downgradient	Glacial	February 5, 2025	Assessment Monitoring
MW-7B	Downgradient	Bedrock	February 5, 2025	Assessment Monitoring
MW-7C	Downgradient	Glacial	February 5, 2025	Assessment Monitoring
MW-8	Downgradient	Glacial	February 5, 2025	Assessment Monitoring
MW-9	Downgradient	Glacial	February 5, 2025	Assessment Monitoring
MW-10	Downgradient	Glacial	February 5, 2025	Assessment Monitoring
MW-11	Background/Upgradient	Glacial	February 4, 2025	Assessment Monitoring
MW-11B	Background/Upgradient	Bedrock	February 4, 2025	Assessment Monitoring
MW-12	Background/Upgradient	Glacial	February 4, 2025	Assessment Monitoring
MW-12B	Background/Upgradient	Bedrock	February 4, 2025	Assessment Monitoring
MW-13	Downgradient	Glacial	February 6, 2025	Assessment Monitoring
MW-14	Downgradient	Glacial	February 4, 2025	Assessment Monitoring
MW-15	Downgradient	Glacial	February 4, 2025	Assessment Monitoring
MW-16A	Downgradient	Glacial	February 6, 2025	Assessment Monitoring
MW-16B	Downgradient	Glacial	February 6, 2025	Assessment Monitoring
MW-16C	Downgradient	Bedrock	February 6, 2025	Assessment Monitoring
MW-16D	Downgradient	Bedrock	February 6, 2025	Assessment Monitoring

Monitoring Well I.D.	Well Location	Aquifer Monitored	Dates Monitored	Monitoring Purpose
MW-17A	Downgradient	Glacial	January 23, 2025	Background Monitoring / Assessment Monitoring / MNA Data Collection
			February 27, 2025 April 3, 2025 ¹ April 24, 2025 ¹ May 29, 2025 ¹	Background Monitoring
MW-17B	Downgradient	Glacial	January 23, 2025	Background Monitoring / Assessment Monitoring / MNA Data Collection
			February 27, 2025 April 3, 2025 ¹ April 24, 2025 ¹ May 29, 2025 ¹	Background Monitoring
MW-17C	Downgradient	Glacial	January 23, 2025	Background Monitoring / Assessment Monitoring / MNA Data Collection
			February 27, 2025 April 3, 2025 ¹ April 24, 2025 ¹ May 29, 2025 ¹	Background Monitoring
MW-17D	Downgradient	Bedrock	January 23, 2025	Background Monitoring / Assessment Monitoring / MNA Data Collection
			February 27, 2025 April 3, 2025 ¹ April 24, 2025 ¹ May 29, 2025 ¹	Background Monitoring
MW-17E	Downgradient	Bedrock	January 23, 2025	Background Monitoring / Assessment Monitoring / MNA Data Collection
			February 27, 2025 April 3, 2025 ¹ April 24, 2025 ¹ May 29, 2025 ¹	Background Monitoring
MW-18A	Downgradient	Glacial	January 23, 2025	Background Monitoring / Assessment Monitoring / MNA Data Collection
			February 27, 2025 April 3, 2025 ¹ April 24, 2025 May 29, 2025*	Background Monitoring
MW-18B	Downgradient	Glacial	January 23, 2025	Background Monitoring / Assessment Monitoring / MNA Data Collection
			February 27, 2025 April 3, 2025 ¹ April 24, 2025 May 29, 2025*	Background Monitoring
MW-18C	Downgradient	Bedrock	January 23, 2025	Background Monitoring / Assessment Monitoring / MNA Data Collection
			February 27, 2025 April 3, 2025 ¹ April 24, 2025 May 29, 2025*	Background Monitoring

Monitoring Well I.D.	Well Location	Aquifer Monitored	Dates Monitored	Monitoring Purpose
MW-18D	Downgradient	Bedrock	January 23, 2025	Background Monitoring / Assessment Monitoring / MNA Data Collection
			February 27, 2025 April 3, 2025 ¹ April 24, 2025 May 29, 2025*	Background Monitoring
MW-19A (installed May 1, 2025)	Downgradient	Glacial	May 12, 2025 June 17, 2025*	Background Monitoring
MW-19B (installed May 1, 2025)	Downgradient	Glacial	May 12, 2025 June 17, 2025*	Background Monitoring
MW-19D (installed April 30, 2025)	Downgradient	Bedrock	May 12, 2025 June 17, 2025*	Background Monitoring
MW-19D (installed April 30, 2025)	Downgradient	Bedrock	May 12, 2025 June 17, 2025*	Background Monitoring
MW-100A	Downgradient	Glacial	February 5, 2025	Assessment Monitoring
MW-100B	Downgradient	Glacial	February 5, 2025	Assessment Monitoring
MW-100C	Downgradient	Bedrock	February 5, 2025	Assessment Monitoring
MW-100D	Downgradient	Bedrock	February 5, 2025	Assessment Monitoring

¹On this monitoring date, the monitoring location was scheduled for monitoring; however, the monitoring point was inaccessible due to ponded water and the well was unable to be sampled.

*Data analysis from these sample events are underway and will be included in the Annual GW Monitoring Report for 2025.

3.1.2 Water Levels and Sample Collection

Water levels were collected in each well following the Groundwater Level Monitoring Standard Operating Procedure (SOP) for Erickson (HDR, 2024b). Water levels were measured before purging the wells began. 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. After field parameters stabilized, samples were collected and tested for the parameters listed in **Table 3**. For quality control, one field duplicate and one equipment blank sample were collected on each sampling date for each sampling event. Samples were shipped under Chain of Custody to Eurofins Laboratories of Cleveland, Ohio.

3.1.3 Analytical Testing

Samples collected for background monitoring and assessment monitoring events were analyzed for the parameters listed in **Table 3**. In addition to the required list in **Table 3**, on occasion, wells were analyzed for general water quality parameters including alkalinity, magnesium, potassium, and sodium.

Table 3. Constituents of Interest

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

3.1.4 Data Validation and Data Management

Data validation and data management tasks were performed per the Data Management and Statistical Procedures Plan for Compliance with the Coal Combustion Residuals Rule (HDR, 2020a). Data validation was conducted to eliminate data that did not meet validation criteria and designate a data qualifier for data quality limitation discovered.

Samples and quality control (QC) were reviewed and evaluated, and no samples were rejected. Quality Control analyses were within reportable limits; however, when QC was outside limit controls, samples were reported as estimated. Field and laboratory precision and accuracy goals were nearly met for all samples analyzed. Where failures of field and laboratory precision and accuracy were outside of control limits, data was qualified as necessary. Data analyses required minimal qualifications, and data were usable, even when qualified. A summary table of the lab results may be found in **Appendix B**. Laboratory reports and accompanying data validation reports for the sampling completed between January and June 2025 may be found in **Appendix C**.

4.0 Monitoring Results

4.1 Water Levels and Groundwater Flow Direction

Water levels for the Former Erickson Power Station are provided in **Table 4**. Groundwater beneath the area of the impoundments is between 852 to 876 feet amsl. Groundwater elevations fluctuate approximately 1 to 6 feet throughout the year and are higher in the spring and lower in the fall (**Figure 4**). Based on the potentiometric contours, the groundwater flow under the former CCR impoundments is generally east, however flow farther east of the wetlands at MW-16 appears to be flowing west, back towards the BWL property and then following the surface topography towards the north. Groundwater flows north under the wetland area within both the glacial and bedrock aquifers consistent with the Carrier Creek Subwatershed topography. Additional information detailing the groundwater flow direction at former Erickson Power Station may be found in the revised Groundwater Monitoring Systems Certification for Erickson Power Station published in June 2024 (HDR, 2024).

Water levels in the paired and multi-level glacial and bedrock wells is inconsistent between the sets (**Figure 4**). As shown in **Table 4**, glacial wells MW-11 and MW-12 have higher water levels than the paired bedrock wells MW-11B and MW-12B (approximately 9 feet and 4 feet higher, respectively), indicating a downward vertical gradient. Similarly, groundwater elevations in the MW-16 series decrease with well depth, indicating a downward vertical gradient, except for bedrock well MW-16D which is hydraulically disconnected from the other wells at Erickson. In the MW-100 well series, groundwater elevations in MW-100B and MW-100C are similar, while MW-100A is one foot higher and MW-100D is also one foot higher. These wells are all located farther from and surrounding the wetland where groundwater converges from both sides and turns and flows north consistent with the Carrier Creek Subwatershed topography. Wells that are closer to or within the wetland and where groundwater converges and flows north, bedrock well MW-7B has historically had a slightly higher water level than glacial paired well MW-7, indicating an upward vertical gradient, however, data collected since its installation in 2022 indicate that this trend may be seasonally dependent as the gradient has been inconsistent. Groundwater elevation data for the MW-17 series wells indicate a downward vertical gradient, except for MW-17D which appears to have an upward gradient from the shallow bedrock to the glacial aquifer. Additionally, the vertical gradient of the shallow glacial wells MW-17A and MW-17B may be seasonally dependent as MW-17B has been observed at slightly higher elevations than that of MW-17A during Q1 and Q2 2025. Likewise, MW-18 series wells have also indicated a downward vertical gradient, with an upward vertical gradient being observed between MW-18A, -18B, and -18C during the first half of 2025. Groundwater elevation data collected from the MW-19 series wells indicate an upward gradient within this well series farther north.

Because the groundwater elevations differed between glacial wells and bedrock wells, two separate sets of potentiometric contour maps were developed, one for wells screened in the glacial aquifer and one for the wells screened in the shale/sandstone bedrock aquifer. Potentiometric surface maps were developed for the glacial and bedrock aquifers for the January and May 2025 water level measurement dates. Maps displaying the groundwater



elevations at the wells and the groundwater contours and are provided in **Appendix A**. Bedrock groundwater contour maps include well MW-16C (and not well MW-16D) due to the apparent MW-16D disconnection described above, whereas MW-17E, MW-18D, and MW-100D are included on the map (as opposed to MW-100C) due to the similar screened elevation as the onsite bedrock wells (MW-7B, MW-11B, MW-12B, MW-17E, MW-18D, MW-19C, and MW-19D).

The potentiometric surface maps and hydrographs indicate that monitoring wells MW-1, MW-4, MW-11, MW-12 are located upgradient in the glacial aquifer and wells MW-11B and MW-12B are upgradient in the bedrock aquifer relative to the former Forebay, Retention Pond, and CWP and are appropriate to represent background water quality.



Table 4. Groundwater Elevations Measured between January and June 2025

Monitoring Well ID	Aquifer Monitored	TOC Elevation (ft amsl)	Groundwater Elevations (ft amsl)							
			1/23/2025	1/31/2025	2/27/2025	4/24/2025	5/12/2025	5/28/2025	5/29/2025	6/17/2025
MW-1	Glacial	888.74	NM	873.83	NM	NM	NM	874.41	NM	NM
MW-2	Glacial	885.97	NM	864.59	NM	NM	NM	866.40	NM	NM
MW-3	Glacial	884.81	NM	869.24	NM	NM	NM	872.50	NM	NM
MW-4	Glacial	889.15	NM	870.61	NM	NM	NM	873.68	NM	NM
MW-5	Glacial	885.50	NM	866.13	NM	NM	NM	867.05	NM	NM
MW-6	Glacial	885.53	NM	864.18	NM	NM	NM	866.19	NM	NM
MW-7	Glacial	870.144	NM	863.72	NM	NM	NM	864.91	NM	NM
MW-7B	Bedrock	870.28	NM	863.61	NM	NM	NM	868.16	NM	NM
MW-7C	Glacial	871.53	NM	864.04	NM	NM	NM	865.35	NM	NM
MW-8	Glacial	873.743	NM	863.93	NM	NM	NM	865.37	NM	NM
MW-9	Glacial	872.6	NM	863.74	NM	NM	NM	865.14	NM	NM
MW-10	Glacial	875.654	NM	864.40	NM	NM	NM	866.66	NM	NM
MW-11	Glacial	885.64	NM	875.06	NM	NM	NM	875.53	NM	NM
MW-11B	Bedrock	885.58	NM	865.27	NM	NM	NM	866.41	NM	NM
MW-12	Glacial	886.19	NM	869.14	NM	NM	NM	872.01	NM	NM
MW-12B	Bedrock	886.27	NM	866.38	NM	NM	NM	867.86	NM	NM
MW-13	Glacial	871.80	NM	863.11	NM	NM	NM	864.60	NM	NM
MW-14	Glacial	884.59	NM	869.02	NM	NM	NM	869.83	NM	NM
MW-15	Glacial	880.24	NM	874.11	NM	NM	NM	874.96	NM	NM
MW-16A	Glacial	877.48	NM	869.87	NM	NM	NM	871.87	NM	NM
MW-16B	Glacial	877.49	NM	866.52	NM	NM	NM	868.25	NM	NM
MW-16C	Bedrock	877.49	NM	866.27	NM	NM	NM	867.93	NM	NM
MW-16D	Bedrock	877.53	NM	852.58	NM	NM	NM	853.10	NM	NM
MW-17A	Glacial	864.43	863.44	863.65	863.93	NM	NM	NM	NM	NM
MW-17B	Glacial	864.49	863.51	863.56	863.98	NM	NM	NM	NM	NM
MW-17C	Glacial	864.51	862.95	863.57	863.26	NM	NM	NM	NM	NM
MW-17D	Bedrock	864.42	863.39	863.73	863.62	NM	NM	NM	NM	NM
MW-17E	Bedrock	864.36	862.08	863.66	862.16	NM	NM	NM	NM	NM
MW-18A	Glacial	865.59	863.63	863.69	864.19	864.76	NM	864.84	864.82	NM



Monitoring Well ID	Aquifer Monitored	TOC Elevation (ft amsl)	Groundwater Elevations (ft amsl)							
			1/23/2025	1/31/2025	2/27/2025	4/24/2025	5/12/2025	5/28/2025	5/29/2025	6/17/2025
MW-18B	Glacial	865.60	863.68	863.70	864.25	864.82	NM	864.92	864.87	NM
MW-18C	Bedrock	865.58	863.60	863.68	864.08	864.82	NM	864.92	864.91	NM
MW-18D	Bedrock	865.59	861.18	863.25	861.75	864.52	NM	864.59	864.58	NM
MW-19A	Glacial	868.30	Well installed on May 1, 2025.				858.55	858.29	NM	857.47
MW-19B	Glacial	868.28	Well installed on May 1, 2025.				859.46	859.28	NM	858.50
MW-19C	Bedrock	868.57	Well installed on April 30, 2025.				860.44	859.77	NM	858.89
MW-19D	Bedrock	868.62	Well installed on April 30, 2025.				861.07	860.28	NM	859.32
MW-20	Glacial	875.95	Well installed on April 29, 2025.				NM	863.99	NM	NM
MW-100A	Glacial	879.77	NM	NM	NM	NM	NM	864.92	NM	NM
MW-100B	Glacial	879.74	NM	NM	NM	NM	NM	864.52	NM	NM
MW-100C	Bedrock	879.72	NM	NM	NM	NM	NM	864.79	NM	NM
MW-100D	Bedrock	879.70	NM	NM	NM	NM	NM	865.18	NM	NM

NM – Not measured.

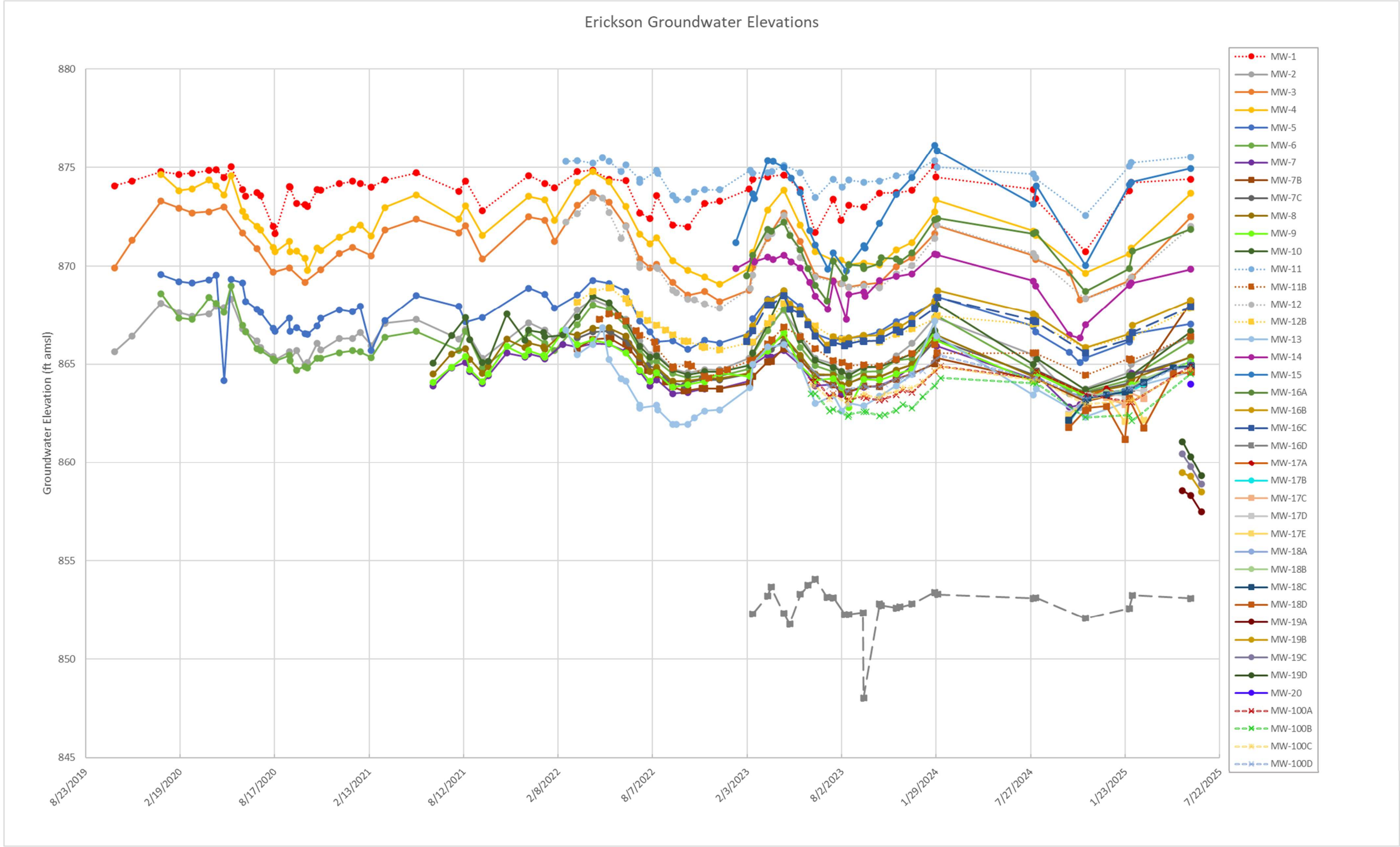


Figure 4. Former Erickson Power Station Groundwater Elevations

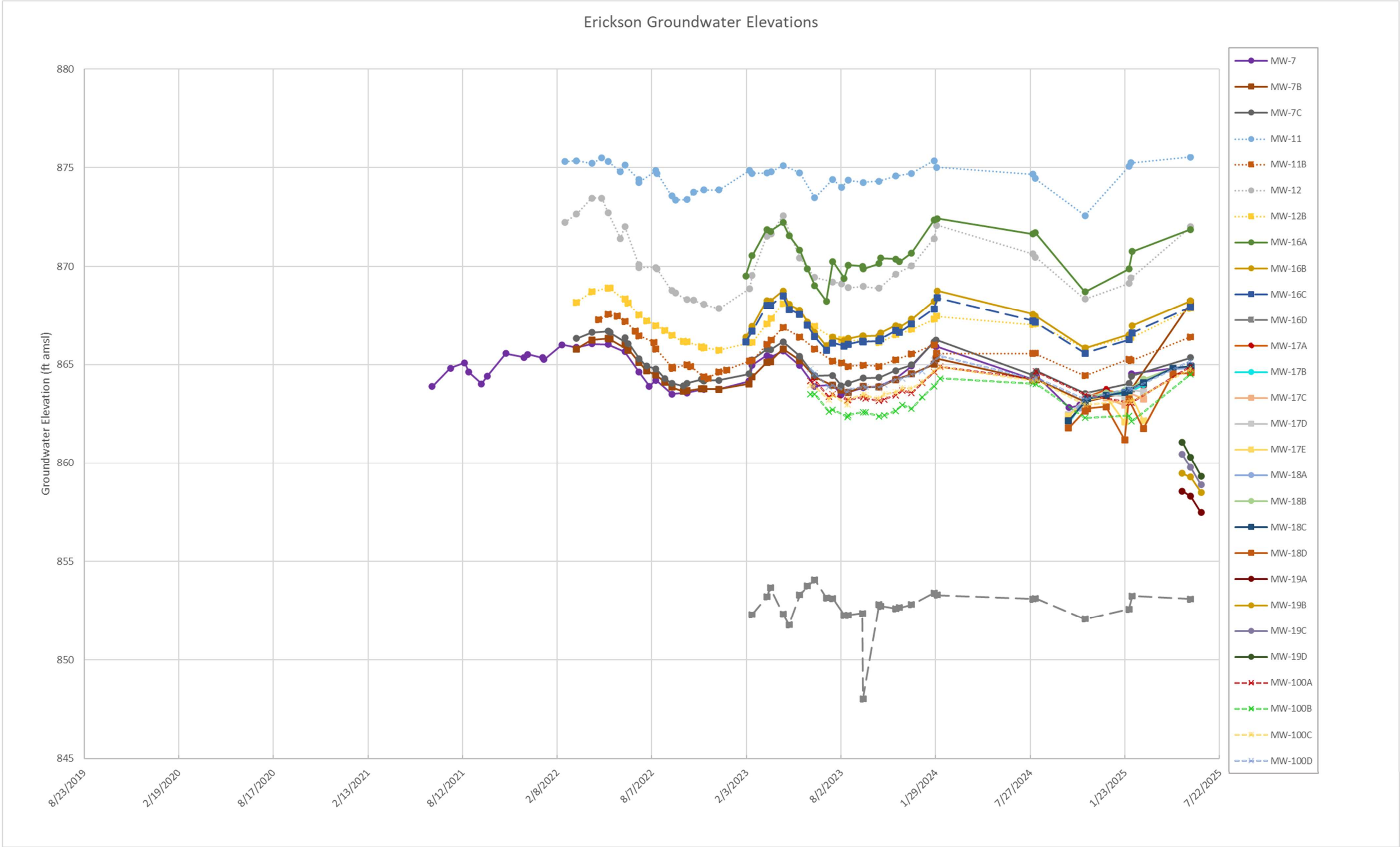


Figure 5. Former Erickson Power Station Paired Glacial and Bedrock Well Groundwater Elevations

4.2 Water Quality

A table summary of the analytical data is provided in **Appendix B** and laboratory reports are provided in **Appendix C**. In accordance with R 299.4441(9), Groundwater Protection Standards (GPS) were established for each detected COI.

Glacial Aquifer Background Values

Wells MW-1, MW-4, MW-11, and MW-12 represent background water quality for the glacial aquifer. Background statistics for the glacial aquifer were updated in October 2023 and were published in the Background Statistical Certification Report for the site in March 2024 (HDR, 2024a). The upper tolerance limit (UTL) values for assessment monitoring and established GPS for the glacial aquifer are provided in **Table 5**.

Table 5. Background Values and Groundwater Protection Standards for the Glacial Aquifer

Parameter		Site-Specific Glacial Background Level Upper Tolerance Limit (UTL) ¹ (mg/L)	Federal Maximum Contaminant Level (mg/L)	State Non- Residential Drinking Water Cleanup Criteria for Groundwater ² (mg/L)	Glacial Groundwater Protection Standards for Site (mg/L)
Sb, total	Antimony	0.005	0.006	0.006	0.006
As, total	Arsenic	0.021	0.01	0.01	0.021
Ba, total	Barium	0.168	2	2	2
Be, total	Beryllium	0.001	0.004	0.004	0.004
B, total	Boron	0.48	NV	0.5	0.5
Cd, total	Cadmium	0.0005	0.005	0.005	0.005
Cr, total	Chromium	0.005	0.1	0.1	0.1
Co, total	Cobalt	0.005	0.006	0.1	0.006
Cu, total	Copper	0.005	1.3	1	1
Fe, total	Iron	23.5	0.3	0.3	23.5
Pb, total	Lead	0.003	0.015	0.004	0.004
Li, total	Lithium	0.0397	0.04	0.35	0.04
Hg, total	Mercury	0.0002	0.002	0.002	0.002
Mo, total	Molybdenum	0.024	0.1	0.21	0.1
Ni, total	Nickel	0.021	NV	0.1	0.1
Se, total	Selenium	0.005	0.05	0.05	0.05
Ag, total	Silver	0.0005	0.1	0.098	0.098
Tl, total	Thallium	0.002	0.002	0.002	0.002
V, total	Vanadium	0.005	NV	0.062	0.062
Zn, total	Zinc	0.036	5	5	5
Ca	Calcium	188	NV	NV	188
F	Fluoride	1	4	2	2
Cl	Chloride	94.377	250	250	250
SO ₄	Sulfate	344	250	250	344
TDS	Total Dissolved Solids	1168.639	500	500	1168.639
Ra226/228	Radium 226 and 228 combined	5.00 pCi/L	5 pCi/L	NV	5 pCi/L

¹ Calculated by pooling wells MW-1, MW-4, MW-11, and MW-12, through February 9, 2023, data. BTVs calculated in October 2023.

² 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.

NV=no value

Bedrock Aquifer Background Values

Wells MW-11B and MW-12B represent background water quality in the bedrock aquifer upgradient of the CCR impoundments and were completed in shale and sandstone at approximately 120 feet below ground surface. Background statistics for the bedrock aquifer were updated in October 2023 and were published in the Background Statistical Certification Report for the site in March 2024 (HDR, 2024a). The upper tolerance limit (UTL) values for assessment monitoring and established GPS for the bedrock aquifer are provided in **Table 6**.

Table 6. Background Values and Groundwater Protection Standards for the Bedrock Aquifer

Parameter		Site-Specific Bedrock Background Level Upper Tolerance Limit (UTL) ¹ (mg/L)	Federal Maximum Contaminant Level (mg/L)	State Non- Residential Drinking Water Cleanup Criteria for Groundwater ² (mg/L)	Bedrock Groundwater Protection Standards for Site (mg/L)
Sb, total	Antimony	0.005	0.006	0.006	0.006
As, total	Arsenic	0.009	0.01	0.01	0.01
Ba, total	Barium	0.081	2	2	2
Be, total	Beryllium	0.001	0.004	0.004	0.004
B, total	Boron	3.52	NV	0.5	3.52
Cd, total	Cadmium	0.0005	0.005	0.005	0.005
Cr, total	Chromium	0.005	0.1	0.1	0.1
Co, total	Cobalt	0.005	0.006	0.1	0.006
Cu, total	Copper	0.005	1.3	1	1
Fe, total	Iron	3.04	0.3	0.3	3.04
Pb, total	Lead	0.003	0.015	0.004	0.004
Li, total	Lithium	0.051	0.04	0.35	0.051
Hg, total	Mercury	0.0002	0.002	0.002	0.002
Mo, total	Molybdenum	0.011	0.1	0.21	0.1
Ni, total	Nickel	0.011	NV	0.1	0.1
Se, total	Selenium	0.005	0.05	0.05	0.05
Ag, total	Silver	0.0005	0.1	0.098	0.098
Tl, total	Thallium	0.002	0.002	0.002	0.002
V, total	Vanadium	0.005	NV	0.062	0.062
Zn, total	Zinc	0.042	5	5	5
Ca	Calcium	69.6	NV	NV	69.6
F	Fluoride	1	4	2	2
Cl	Chloride	5	250	250	250
SO ₄	Sulfate	5	250	250	250
TDS	Total Dissolved Solids	380	500	500	500
Ra226/228	Radium 226 and 228 combined	5.5 pCi/L	5 pCi/L	NV	5.5 pCi/L

¹ Calculated by pooling wells MW-11B and MW-12B, through February 9, 2023, data. BTVs calculated in October 2023.

² 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.

NV=no value

Assessment Monitoring Event – January/February 2025

Thirty-six (36) wells were sampled during January/February 2025 assessment monitoring event as presented in **Table 2**. The following wells had concentrations of one or more COIs that exceeded GPS: MW-2, MW-3, MW-5, MW-6, MW-7, MW-7C, MW-14, MW-16A, and MW-16D. In accordance with Michigan Rule R 299.4441, downgradient well concentrations were statistically evaluated to determine if one or more constituents are detected at SSLs above the GPS. 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. Statistical output files are in **Appendix D**.

Glacial Aquifer

Wells MW-2 and MW-5 had SSLs of boron, calcium, lithium, and sulfate over the GPS (**Table 7**). In previous assessment monitoring events, wells MW-2 and MW-5 also had SSLs of TDS above the GPS; however, the 95LCL dropped below the GPS after the February 2025 sample event. Wells MW-6 and MW-14 had SSLs of boron and lithium over the GPS, and well MW-7 had SSLs of boron, lithium, and molybdenum, over the GPS (**Table 7**). Well MW-7C had SSLs of boron, calcium, lithium, molybdenum, sulfate, and TDS over the GPS (**Table 7**). Well MW-3 continued to demonstrate SSLs of boron, calcium, lithium, molybdenum, sulfate, and TDS over the GPS (**Table 7**).

Based on several factors, an Alternate Source Demonstration for the SSLs of Chloride and TDS were observed in well MW-16A and submitted to EGLE in July 2024 related to salt applications for road deicing.

Table 7. Wells with SSLs over GPS – Calculated through the January/February 2025 Assessment Monitoring Event

Monitoring Well	Constituent	Boron	Calcium	Chloride	Lithium	Molybdenum	Sulfate	TDS
	State Glacial GPS	0.50 mg/l	188 mg/l	250 mg/l	0.040 mg/l	0.10 mg/l	344 mg/l	1,169 mg/l
MW-2	95% LCL	4.3	220	-	0.051	-	410	-
MW-3	95% LCL	5.5	240	-	0.078	0.16	690	1,400
MW-5	95% LCL	3.5	190	-	0.061	-	490	-
MW-6	95% LCL	0.71	-	-	0.044	-	-	-
MW-7	95% LCL	1.7	-	-	0.083	0.17	-	-
MW-7C	95% LCL	6.4	240	-	0.12	0.39	670	1,300
MW-14	95% LCL	2.1	-	-	0.11	-	-	-
MW-16A*	95% LCL	-	-	420	-	-	-	1,300

*An ASD has been prepared for the SSLs observed within this well.

"-" Denotes the LCL did not exceed GPS along with wells not listed.

Bedrock Aquifer

Well MW-16D continued to demonstrate an SSL of boron over the GPS during the January/February 2025 assessment monitoring event (**Table 8**).

Table 8. SSLs in Bedrock Wells– Calculated through the February 2025 Assessment Monitoring Event

Monitoring Well	Constituent	Boron
	State Glacial GPS	3.52 mg/l
MW-16D*	95% LCL	4.5

*An ASD has been prepared for the SSL observed within this well.

However, as described in **Section 4.1** and demonstrated in **Figure 4** and **Figure 5**, MW-16D is hydraulically disconnected to the other wells at Erickson and past studies at the site indicate that the exceedance in this well is due to naturally occurring boron from shale at the screened elevation. An ASD for the SSL observed in this well was submitted to EGLE in July 2024.

Background Monitoring Events – January, February, April, May, June 2025

Background monitoring events for MW-17 and MW-18 multi-levels series wells (MW-17A, MW-17B, MW-17C, MW-17D, MW-17E, MW-18A, MW-18B, MW-18C, and MW-18D) as well as newly installed MW-19 series wells have been completed during the first half of 2025. Sampling for background monitoring events is shown in **Table 2** and described in **Section 3.1**. For MW-17 series and MW-18 series wells, background monitoring events were scheduled together, similar to previous background monitoring events, however wells at the MW-17 location were unable to be sampled due to seasonal inundation. Therefore, the fourth and fifth background events for MW-17 series wells were completed in January and February of 2025. MW-18 series wells have completed a total of 7 sampling events and in 2025 were sampled in January, February, April, and May. After their installation and development, MW-19 series wells were sampled in May and June 2025. At the time of this report, the full data analysis has not been completed for the May 2025 sampling event for MW-18 series wells and the June 2025 sampling event for the MW-19 series wells; however, initial results have been reviewed and a summary of the findings are presented below. Although initial review of data collected from these wells indicate concentrations above GPS, these exceedances are not considered SSLs as the wells have not completed enough sampling events to be considered statistically significant.

Glacial Aquifer

Results from background monitoring events for wells MW-17A, MW-17B, MW-17C, MW-18A, and MW-18B have GPS exceedances for boron and lithium. In addition, exceedances of GPS for TDS and sulfate were observed in all MW-17 series glacial wells and MW-18B. Calcium concentrations in well MW-17A have also been observed to exceed the GPS in well MW-17A. Wells MW-17B, MW-17C, MW-18A, and MW-18B have also demonstrated exceedances of the GPS for molybdenum, however exceedances have not been consistent between background sampling events.

To date, only two background sampling events have been completed for wells MW-19A and MW-19B. Initial results from these wells indicate slight exceedances above GPS for boron and calcium only.

Exceedances of GPS for sampling events completed between January and June 2025 for wells MW-17A, MW-17B, MW-17C, MW-18A, MW-18B, MW-19A, and MW-19B are shown in **Table 9** below.

Table 9. Individual Sample Event Exceedances of State Glacial GPS for Newer Wells between January and June 2025

Monitoring Well	Sample Date	Constituent	Boron	Calcium	Lithium	Molybdenum	Sulfate	TDS
		State Glacial GPS	0.50	188	0.040	0.10	344	1,169
MW-17A	1/23/25	mg/L	4	240	0.053	---	670	1,300
	2/27/25	mg/L	4.7	240	0.053	---	650	1,300
MW-17B	1/23/25	mg/L	1.9	---	0.085	---	400	---
	2/27/25	mg/L	2.1	---	0.091	---	390	---
MW-17C	1/23/25	mg/L	2.2	---	0.056	---	530	---
	2/27/25	mg/L	2.7	---	0.056	---	560	---
MW-18A	1/23/25	mg/L	1.3	---	0.11	---	---	---
	2/27/25	mg/L	1.2	---	0.093	---	---	---
	4/24/25	mg/L	0.79	---	0.066	0.11	---	---
MW-18B	1/23/25	mg/L	3.4	---	0.13	---	410	---
	2/27/25	mg/L	2	---	0.096	---	350	---
	4/24/25	mg/L	3.2	---	0.13	0.14	410	---
MW-19A	5/12/25	mg/L	---	200	---	---	---	---
MW-19B	5/12/25	mg/L	0.55	---	---	---	---	---

Data from these wells compared to the GPS for all validated background sampling events may be found in **Appendix B**.

Bedrock Aquifer

Results obtained from bedrock wells MW-17D and MW-17E have remained under the GPS for all background monitoring events completed to date in 2025. Previously, calcium, sulfate, TDS, lithium, and molybdenum in MW-17D exceeded the GPS for the monitoring event completed in November 2024. Concentrations of calcium, sulfate, TDS, lithium, and molybdenum above bedrock GPS have continued to be observed in wells MW-18C and MW-18D for background events completed in 2025. Additionally, well MW-18D has demonstrated concentrations of boron above the bedrock GPS in well MW-18D in November 2024 and all sampling events in 2025, however, similar to other wells at Erickson, the source of the boron in this bedrock well is likely naturally occurring due to the shale the well is screened within. During the November 2024 background event only, well MW-18D demonstrated concentrations of iron above the GPS. Well MW-18D has not continued to demonstrate concentrations of iron in excess of the GPS.

Initial data from wells MW-19C and MW-19D do not demonstrate exceedances above the bedrock GPS for any analytes.

Exceedances of GPS for sampling events completed between January and June 2025 for wells MW-17D, MW-17E, MW-18C, MW-18D, MW-19C, and MW-19D are shown in **Table 10** below.

Table 10. Individual Sample Event Exceedances of State Bedrock GPS for Newer Wells between January and June 2025

Monitoring Well	Sample Date	Constituent	Boron	Calcium	Chloride	Iron	Lithium	Molybdenum	Sulfate	TDS
		State Bedrock GPS	3.52	69.6	250	3.04	0.051	0.1	250	500
MW-18C	1/23/25	mg/L	---	190	89	3.6	0.093	---	540	1,000
	2/27/25	mg/L	---	200	87	3.4	0.085	0.12	560	1,100
	4/24/25	mg/L	---	170	70	---	0.093	---	420	940
MW-18D	1/23/25	mg/L	3.8	---	---	---	0.067	---	---	600
	2/27/25	mg/L	3.9	77	---	---	0.077	---	---	620
	4/24/25	mg/L	3.7	---	---	---	0.059	---	---	560

Data from these wells compared to the GPS for all validated background sampling events may be found in **Appendix B**.

5.0 Remedy Selection Progress Update

BWL has completed source removal to close the CCR impoundments. Groundwater measures being evaluated in the Assessment of Corrective Measures (ACM) in November 2021 assumed the impoundments would be excavated and source removed prior to implementation of groundwater remedy measures.

5.1 Plume Delineation

Previous groundwater monitoring network data currently suggest that the plume is delineated to the east and south of the former CCR impoundments, as stated in previous groundwater monitoring reports. In the first half of 2025, delineation efforts to the north have continued.

Initial data collected from the MW-17 and MW-18 series wells through June 2025 (installed in September 2024) indicate that concentrations above GPS for multiple constituents of concern have been identified in both the glacial and bedrock aquifers for these multi-level series wells. However, a statistical analysis of the samples has not been performed due to these wells not having completed enough sampling events to be considered statistically significant. Consequently, the GPS exceedances for these wells are not representative of SSLs for the site at this time.

BWL evaluated potential paths in order to continue to delineate the groundwater plume to the north and in May 2025, a new monitoring well cluster (MW-19A, MW-19B, MW-19C, and MW-19D) and new piezometer (MW-20) were installed on the north and northeast corner of the Erickson property (**Figure 3**). Initial analytical results from the 19-series monitoring well cluster suggest that the plume is largely contained south Millett Highway because there are only slight exceedances of boron in glacial well MW-19B, calcium in the glacial wells MW-19A and MW-19B, and a singular exceedance of TDS in bedrock well MW-19D. To date, two background sample events have been completed for the MW-19 well series; therefore, these discrete exceedances have not been established as SSLs above GPS due to lacking enough sample events to be considered statistically significant.

5.2 Groundwater Extraction and Treatment Data Collection

To assess the groundwater pumping as part of the GWET remedial strategy, a pump test was performed in May 2024. The pump test and analysis is described in the 2024 Groundwater Monitoring Annual Report for Erickson, published by HDR on January 30, 2025, and the findings are being incorporated into the groundwater flow and transport model and if the GWET remedy is selected, the data will be used for design of the remedy.

To assist in evaluating the feasibility of groundwater extraction and treatment as a viable remedy for site groundwater, a discharge options evaluation is currently underway. This evaluation will provide a high-level assessment of potential discharge pathways for the treated groundwater, including direct discharge to surface water under a National Discharge Elimination System (NPDES) permit, permitted discharge to a publicly owned treatment works (POTW), and discharge back to the subsurface (e.g. through reinjection or infiltration) within the site boundaries.

5.3 Monitored Natural Attenuation Data Collection

In 2025, BWL continued to collect additional groundwater data to continue the MNA investigation. An evaluation of the MNA data collected is detailed in a summary memorandum titled “Monitored Natural Attenuation Evaluation: Insights from Initial Data”, which is expected to be finalized in July 2025. This memo includes a Tier I MNA Evaluation for boron, which concluded with a recommendation to advance boron to a Tier II MNA Evaluation and to complete a comprehensive Tier I MNA Evaluation for the remaining site COCs (calcium, lithium, molybdenum, sulfate, and total dissolved solids).

5.4 In-Situ Treatability Data Collection

Between January and June 2025 to evaluate the potential for in-situ treatment of site COCs (boron, lithium, calcium, chloride, lithium, molybdenum, and TDS), BWL has coordinated with multiple vendors to identify potentially feasible reagents and develop sampling and bench testing protocols.

5.5 Next Steps

BWLs efforts to install monitoring wells offsite have failed as all adjacent landowners have not allowed the installation of monitoring wells offsite of the BWL property. Nevertheless, BWL has continued to install wells along their property boundaries to continue to evaluate the potential extent of contamination. Data collected from wells along the eastern, western, and southern boundaries of the site suggest the plume is contained within the boundaries of wells in these directions and data collected from wells along the northern property, although limited, suggest that the boundaries of the plume has been identified.

Robust activities for remedy selection has commenced with investigations into the GWET, MNA, and In-situ remedial methods.

Following this initial MNA data collection effort detailed above, a comprehensive Tier I MNA Evaluation was initiated for all site COCs. The results of this evaluation will be presented in a Tier I MNA Evaluation Report, anticipated to be completed within the third quarter of 2025. To support the Tier II MNA Evaluation, which will include geochemical modeling, additional soil, groundwater, and well sediment sampling is required. This sampling is anticipated to occur in the third quarter of 2025, with completion of the Tier II MNA Evaluation expected in the fourth quarter of 2025.

To evaluate the potential for in-situ treatment of the site COCs will be collected in the third quarter of 2025. These samples will be used to conduct bench-scale treatability tests with a variety of reagents, in order to determine their effectiveness in treating groundwater in situ. If the initial bench test results indicate the selected reagents are not viable, additional bench testing using alternative reagents may be pursued. If results are promising, however, a field-scale pilot test will be developed to further assess the viability of in-situ treatment at the site.

The following activities are proposed to be completed or initiated in the next 6-month period:

- Continue semiannual groundwater assessment monitoring;
- Continue 5-week frequency monitoring for wells undergoing background monitoring;
- Continue the tiered MNA evaluations to assess viability of MNA as a remedial option;

- Updates to the groundwater flow and transport model and simulations to compare the effectiveness of the remedial strategies;
- Continued analysis of results obtained from multi-level well series MW-19 in anticipation of siting of additional wells offsite of the BWL property.

The final remedy will be formally selected per R 299.4444 once the selected option is reviewed and commented on by EGLE and a public meeting is conducted at least 30-days prior to the final selection as required under R 299.4443(4).

6.0 Summary

The following observations are based on CCR Rule compliance groundwater monitoring program development between January and June 2025:

- Four new monitoring wells (MW-19A, MW-19B, MW-19C, and MW-19D) and one water level monitoring piezometer (MW-20) were installed in May 2025 along the north and northeast of the former Erickson property.
- Assessment monitoring for the first half of 2025 was completed in January and February for thirty-six (36) wells. Monitoring data was statistically evaluated, and SSLs above the GPS were observed at MW-2, MW-5, MW-6, MW-7, MW-7C, and MW-14 for lithium and boron. Additionally, SSLs above the GPS were observed at MW-2, MW-5, and MW-7C for calcium and sulfate, in MW-7 for molybdenum, and in MW-7C for molybdenum and TDS. These wells are all glacial wells.
- SSLs were also observed in glacial well MW-16A for chloride and TDS and bedrock well MW-16D for boron. Groundwater flow direction at the site does not indicate that these SSLs are indicative of impact from the former Erickson CCR impoundments. Data collected this year at well MW-16D continues to indicate that this well is not hydraulically connected to the currently established well network at Erickson Station. These wells will continue to be monitored and sampled.
- Monitoring at a five-week frequency at the newly installed multi-level series wells at MW-17, MW-18, and MW-19. To date, five sampling events have been completed for the MW-17 series wells, six sampling events have been completed for the MW-18 series wells, and two sampling events have been completed for the MW-19 series wells.
- Collection of data to assess remedy alternatives for the site including an assessment of discharge alternatives.
- Data collection and evaluation of MNA remedial strategy including a Tier 1 analysis of site specific COCs.
- Identification of potential reagents and development of sampling and bench testing protocols for site specific COCs to evaluate if the impacted groundwater may be treated in-situ.

7.0 References

HDR, 2020. Determination of Statistically Significant Increases over Background. November 23, 2020.

HDR, 2020a. Erickson Power Station Statistical Procedures Plan. May 11, 2020.

HDR, 2021. Assessment Monitoring Plan (AMP). March 26, 2021.

HDR, 2021b. Response Action Plan (RAP). March 26, 2021.

HDR, 2021c. Conceptual Site Model and Assessment of Corrective Measures. November 5, 2021

HDR, 2024. Assessment of Corrective Measures Data Collection Work Plan. February 15, 2024.

HDR, 2024a. Background Water Quality Statistical Certification. March 8, 2024.

HDR, 2024b. Groundwater Level Monitoring Standard Operating Procedure (SOP). Revised July 2, 2024.

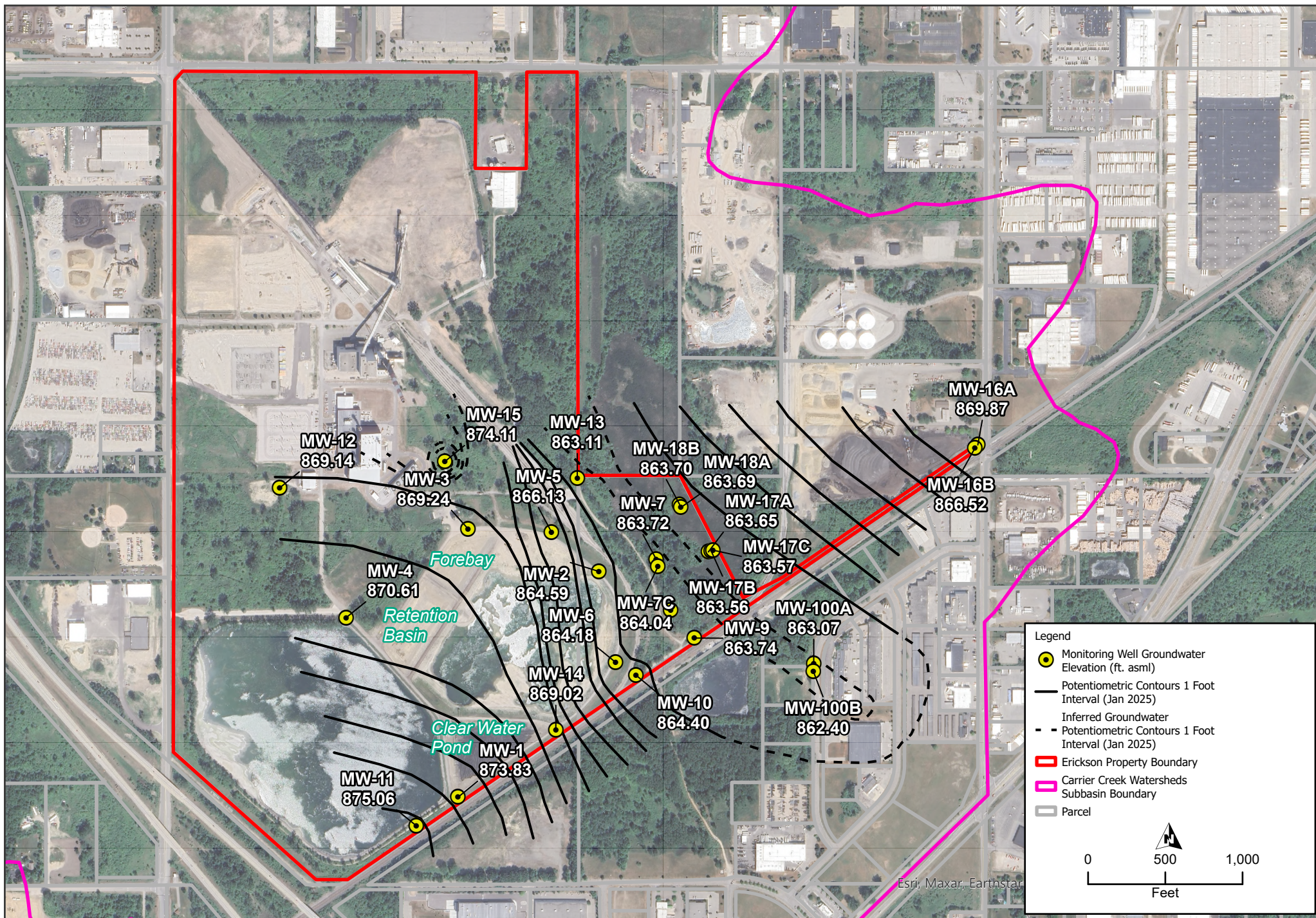
HDR, 2024c. Hydrogeologic Monitoring Plan (HMP). July 3, 2024.

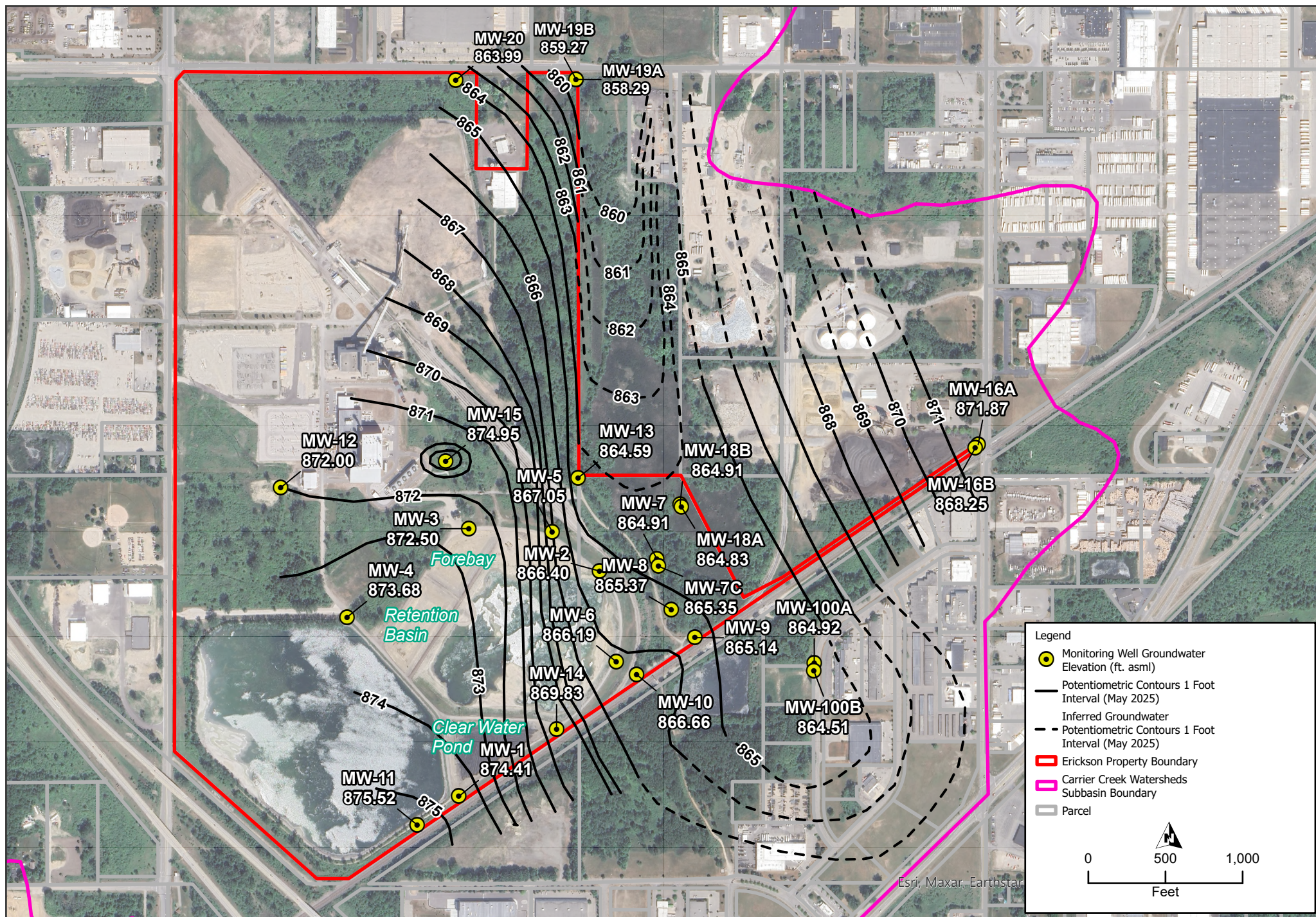
HDR, 2025a. Groundwater Monitoring Network System Certification, Former Erickson Power Station. May 15, 2025.

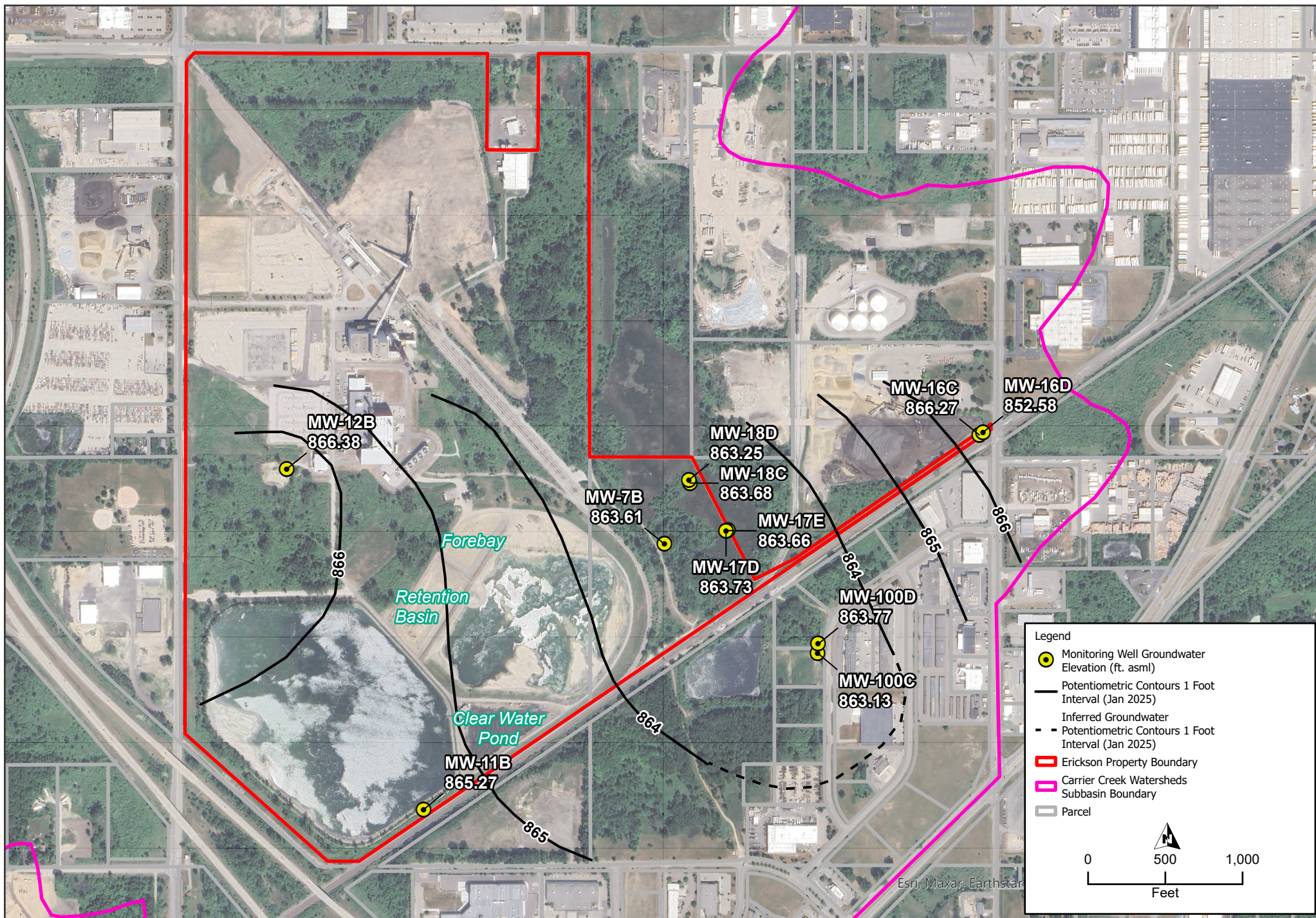
HDR, 2025b. Monitoring Well Installation Report, Former Erickson Power Station. May 15, 2025.

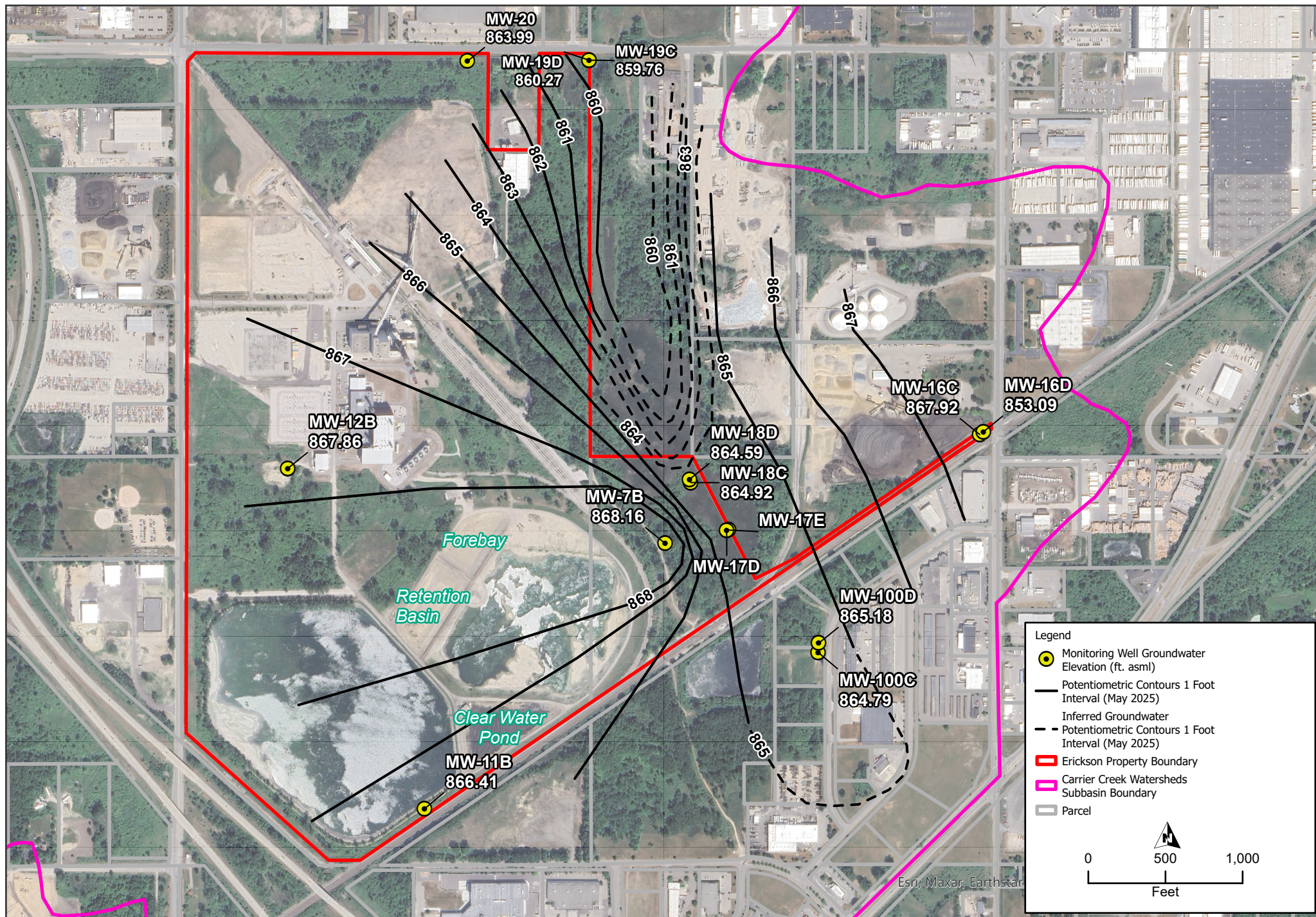
Appendix A

Potentiometric Surface Maps









Appendix B

Lab Reports Summary Tables

Groundwater Sampling Results for MW-1

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-1 4/28/2020 N Upgradient Background T	MW-1 5/26/2020 N Upgradient Background T	MW-1 6/23/2020 N Upgradient Background T	MW-1 7/21/2020 N Upgradient Background T	MW-1 8/18/2020 N Upgradient Background T	MW-1 9/15/2020 N Upgradient Background T	MW-1 9/28/2020 N Upgradient Background T	MW-1 10/12/2020 N Upgradient Background T	MW-1 10/19/2020 N Upgradient Background T	MW-1 10/19/2020 FD Upgradient Background T	MW-1 11/6/2020 N Upgradient Initial AM T	MW-1 1/27/2021 N Upgradient AM T	MW-1 5/4/2021 N Upgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				6.81	6.62	6.75	6.85	6.89	6.9	6.77	6.78	7.15	7.15	6.87	6.82	6.7
Specific Conductivity	mS/cm				1.175	1.199	1.218	1.209	1.22	1.215	1.177	1.185	1.21	1.21	1.205	1.24	1.2
Turbidity	NTU				28.2	40.21	17.1	32.3	21.45	15.61	7.32	7.05	8.64	8.64	8.02	9.95	8.5
Dissolved Oxygen	mg/L				0	0.01	0.08	0.05	0.52	0.01	0.05	0.3	0.09	0.09	0.21	0.09	0.1
Temperature	deg C				11.3	15.2	13.5	16.5	15.6	15.5	13.8	15.1	13.9	13.9	15.9	9.8	12
Oxidation Reduction Potential	mV				-43.2	-28.5	-87.2	-53	-34.7	-109.8	-62.7	-59.4	-79.2	-79.2	-78.8	-27.5	-20.1
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	5.05	5.26	8.44	6.09	6.32	8.04	5.98	6.02	6.14 J	6.15 J	7.12	5.45	4.84
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	0.036	< 0.005	< 0.005	< 0.005	0.007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	0.48	0.27	0.39	0.38	0.41	0.44	0.45	0.37	0.41	0.39	--	0.21	0.19
Calcium	mg/L	188		188	162	180	165	156 J	161	170	153	167	156 J	150 J	--	173	156
Chloride	mg/L	94.377	250	250	74	52	70	64	65	59	61	59	52	53	--	44	48
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				6.81	6.62	6.75	6.85	6.89	6.9	6.77	6.78	7.15	7.15	6.87	6.82	6.7
Sulfate	mg/L	344	250	344	38	69	59	75	75	77	80	81	84	85	--	78	65
Total Dissolved Solids	mg/L	1168.639	500	1168.639	728	794	774	782	776	768	796	774	806	784	--	776	760
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	0.004	0.005	0.007	0.004	0.006	0.006	0.006	0.006	0.005	0.006	0.007	0.005	0.005
Barium	mg/L	0.168	2	2	0.149	0.15	0.168	0.128	0.152	0.148	0.145	0.129	0.136	0.135	0.133	0.121	0.113
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.036	0.023	0.032	0.033	0.034	0.039	0.041	0.037	0.036	0.036	0.034	0.019	0.015
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Radium-226	pCi/L				1.1	0.34	0.518	0.299	0.4	0.618	-0.0627	0.717	0.812 J+	0.464 J-	0.533	0.504	0.56
Radium-228	pCi/L				0.518	0.457	-0.166	0.254	1.47	0.217	-0.778	0.031	0.00457 J-	1.14 J+	-0.0288	0.85	3.47
Radium-226/228	pCi/L	5	5	5	1.61	0.796	0.518	0.553	1.87	0.889	0	0.748	0.816 J-	1.61 J+	0.533	1.35	4.03
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				31	45	43	37	48	55	19	20	31	32	19	14	14
Bicarbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Carbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness (as CaCO3)	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Sampling Results for MW-1

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-1 8/3/2021 N Upgradient AM T	MW-1 2/1/2022 N Upgradient AM T	MW-1 8/2/2022 N Upgradient AM T	MW-1 2/7/2023 N Upgradient AM T	MW-1 8/1/2023 N Upgradient AM T	MW-1 1/29/2024 N Upgradient AM T	MW-1 8/5/2024 N Upgradient AM T	MW-1 2/4/2025 N Upgradient AM T	MW-1 2/4/2025 N Upgradient AM D
Constituent	Unit	BTV(1)	MCL	State GPS									
Field Parameters													
pH	su				6.73	6.77	6.84	6.88	6.73	6.96	6.79	6.93	--
Specific Conductivity	mS/cm				1.185	1.188	1.208	1.098	1.172	1.22	1.12	1.128	--
Turbidity	NTU				7.95	5.51	5.85	9.09	6.68	8.15	0.85	18.98	--
Dissolved Oxygen	mg/L				0.08	0.07	0.14	0.22	0.14	0.22	0.18	-0.08	--
Temperature	deg C				15.7	11.7	14.6	10.7	15.9	10.3	17.3	11.9	--
Oxidation Reduction Potential	mV				-63.4	-46.6	-95.2	-67.2	-64	-35.6	-50.8	-67.4	--
Part 115													
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	6.61	6.92	12	9.57	7.21	2.34	3.37	5.7	5.5
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0015 U	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0027 J	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0044 JB	0.00097 JB
Appendix III													
Boron	mg/L	0.48		0.5	0.22	0.27	0.34	0.32	0.16	0.07	0.12	0.19	0.18
Calcium	mg/L	188		188	153	166	158	150	169	174	178	160	140
Chloride	mg/L	94.377	250	250	46	52	66	61	42	26.5	33.4	44	--
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.11	--
pH (Field Measure)	su				6.73	6.77	6.84	6.88	6.73	6.96	6.79	6.93	--
Sulfate	mg/L	344	250	344	57	49	37	31	54	80.3	74.8	51	--
Total Dissolved Solids	mg/L	1168.639	500	1168.639	748	746	742	546	746	764	766	660	--
Appendix IV													
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.005	0.007	0.007	0.007	0.007	0.005	0.003	0.0046 J	0.003 J
Barium	mg/L	0.168	2	2	0.109	0.122	0.155	0.14	0.11	0.079	0.079	0.087	0.078
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0018 J	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0018	0.0015
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.11	--
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.016	0.021	0.027	0.031	0.014	0.006	0.007	0.011	0.0085
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0023 J	0.0015 J
Radium-226	pCi/L				0.301	0.816	0.715	0.3	0.0656	0.24	3.13	< 0.487 U	--
Radium-228	pCi/L				0.0172	1.76	0.891 J+	1.24	0.576	-0.206	0.277	< 0.778 U	--
Radium-226/228	pCi/L	5	5	5	0.318	2.58	1.61 J+	1.54	0.641	0.24	3.41	< 0.778 U	--
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U
Other													
Total Suspended Solids	mg/L				11	13	36	32	19.4	7	8.4	35	--
Bicarbonate	mg/L				--	--	650	636	690	743	700	520	--
Carbonate	mg/L				--	--	< 10	< 10	< 10	< 10	< 10	< 2.6 U	--
Hardness (as CaCO3)	mg/L				--	--	588	546	638	680	712	600	--
Magnesium	mg/L				--	--	43.1	41.3	52.7	58.1	54.6	50	45
Potassium	mg/L				--	--	1.14	1.08	0.96	0.89	0.9	--	--
Sodium	mg/L				--	--	40.4	41	30.9	22.1	21.9	--	--

Groundwater Sampling Results for MW-2

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-2 4/28/2020 N Downgradient Background T	MW-2 5/26/2020 N Downgradient Background T	MW-2 6/23/2020 N Downgradient Background T	MW-2 7/21/2020 N Downgradient Background T	MW-2 8/18/2020 N Downgradient Background T	MW-2 9/15/2020 N Downgradient Background T	MW-2 9/28/2020 N Downgradient Background T	MW-2 10/12/2020 N Downgradient Background T	MW-2 10/19/2020 N Downgradient Background T	MW-2 11/6/2020 N Downgradient Initial AM T	MW-2 1/27/2021 N Downgradient AM T	MW-2 5/4/2021 N Downgradient AM T	MW-2 8/3/2021 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				6.77	6.54	6.69	6.75	6.8	6.83	6.7	6.72	7.08	6.83	6.76	6.7	6.65
Specific Conductivity	mS/cm				1.602	1.556	1.699	1.744	1.762	1.794	1.761	1.762	1.798	1.792	1.734	1.7	1.655
Turbidity	NTU				72.31	8.27	8.95	9.42	5.95	4.15	7.11	9.56	6.28	11.27	10.15	10	9.62
Dissolved Oxygen	mg/L				0.02	0.02	0.07	0.19	0.15	0.12	0.03	0.34	0.03	0.19	0.08	0.21	0.02
Temperature	deg C				11.6	14.2	12.9	15	13.9	13.7	12.7	14.5	12.3	14.3	9.1	12	14.3
Oxidation Reduction Potential	mV				-42.5	36	-40.2	32.5	38.2	-75.8	56.1	35.3	22.1	-29	55.9	181.8	94.5
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	0.91	0.67	0.48	0.44	0.62	0.51	0.51	0.67 J	0.63 J	0.54	0.49	0.55	0.66
Nickel	mg/L	0.021		0.1	0.018	0.019	0.022	0.024	0.026	0.027	0.027	0.028	0.027	0.027	0.026	0.025	0.025
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	0.041	< 0.005	< 0.005	0.007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	3.56	3.38	4.05	4.61	5.19	5.97	5.94	5.97	5.97	--	5.8	5.04	6.17
Calcium	mg/L	188		188	251	256	268	271 J	272	270	265	270	270 J	--	260	254	226
Chloride	mg/L	94.377	250	250	67	68	75	81	85	88	84	88	88	--	94	77	79
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				6.77	6.54	6.69	6.75	6.8	6.83	6.7	6.72	7.08	6.83	6.76	6.7	6.65
Sulfate	mg/L	344	250	344	386	386	484	549	580	560	586	560	560	--	506	505	504
Total Dissolved Solids	mg/L	1168.639	500	1168.639	1170	1180	1300	1390	1430	1390	1420	1390	1390	--	1320	1250	1300
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.168	2	2	0.039	0.043	0.045	0.036	0.045	0.039	0.041	0.041	0.041	0.042	0.041	0.041	0.039
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.055	0.047	0.055	0.053	0.057	0.066	0.066	0.065	0.07	0.063	0.067	0.061	0.058
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	0.01	0.008	0.01	0.007	0.011	0.011	0.012	0.012	0.012	0.012	0.01	0.009	0.012
Radium-226	pCi/L				0.813	0.0551	0.754	0.329	0.171	0.183	0.263	0.151	0.405	0.539	0.296	0.366	0.17
Radium-228	pCi/L				1.05	0.0833	-0.139	0.0326	0.573	-0.0154	0.0604	1.3	0.0896	0.874	0.713	0.15	1.02
Radium-226/228	pCi/L	5	5	5	1.86	0.138	0.754	0.362	0.745	0.183	0.323	1.45	0.495	1.41	1.01	0.515	1.19
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				< 3	1 U	< 3	< 3	14	< 3	2 U	6	3 U	10	10	12	10
Bicarbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Carbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness (as CaCO3)	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Sampling Results for MW-2

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-2 2/1/2022 N Downgradient AM T	MW-2 8/2/2022 N Downgradient AM T	MW-2 2/7/2023 N Downgradient AM T	MW-2 8/1/2023 N Downgradient AM T	MW-2 1/29/2024 N Downgradient AM T	MW-2 1/29/2024 N Downgradient AM D	MW-2 8/5/2024 N Downgradient AM T	MW-2 8/5/2024 N Downgradient AM D	MW-2 2/4/2025 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS									
Field Parameters													
pH	su				6.73	6.86	6.85	6.75	6.88	--	6.74	--	6.81
Specific Conductivity	mS/cm				1.614	1.395	1.411	1.344	1.418	--	1.285	--	1.333
Turbidity	NTU				9.95	9.01	8.25	2.38	17.8	--	11.91	--	6.23
Dissolved Oxygen	mg/L				0.2	1.01	0.37	0.49	0	--	0.3	--	0.23
Temperature	deg C				11.7	15.4	11.7	14.1	10	--	16.2	--	11.8
Oxidation Reduction Potential	mV				46.6	21	54.2	75.4	16.5	--	53.6	--	54.7
Part 115													
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	1.93	0.93	1.3	0.79	0.52	0.15	0.35	0.11	0.22
Nickel	mg/L	0.021			0.026	0.018	0.02	0.017	0.017	0.016	0.014	0.014	0.012
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U
Zinc	mg/L	0.036	5	5	0.007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0019 JB
Appendix III													
Boron	mg/L	0.48		0.5	5.33	4.76	5.1	4.44	4.07	3.92	3.32	3.16	3.3
Calcium	mg/L	188		188	237	204	204	198	192	164	198	195	190
Chloride	mg/L	94.377	250	250	87	87	88	82	81.7	--	70	--	59
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	--	< 1	--	0.062
pH (Field Measure)	su				6.73	6.86	6.85	6.75	6.88	--	6.74	--	6.81
Sulfate	mg/L	344	250	344	398	330	322	278	281	--	238	--	220
Total Dissolved Solids	mg/L	1168.639	500	1168.639	1180	1020	1050	1010	1000	--	950	--	910
Appendix IV													
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.004	< 0.002	0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00075 U
Barium	mg/L	0.168	2	2	0.048	0.043	0.037	0.034	0.036	0.037	0.034	0.032	0.04
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000099 J
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0036
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	--	< 1	--	0.062
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.058	0.051	0.05	0.049	0.041	0.037	0.041	0.039	0.038
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.011	0.013	0.015	0.014	0.01	0.009	0.012	0.011	0.01
Radium-226	pCi/L				0.63	0.29	0.184	0.423	-0.0321	--	3.25	--	< 0.303 U
Radium-228	pCi/L				1.49	-0.338 J+	-0.445	0.623	-0.595	--	-0.503	--	< 0.592 U
Radium-226/228	pCi/L	5	5	5	2.12	0.29 J+	0.184	1.05	0	--	3.25	--	< 0.592 U
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other													
Total Suspended Solids	mg/L				12	19	22	34.1	9.4	--	10.4	--	3.6 J
Bicarbonate	mg/L				--	410	454	470	550	--	560	--	460
Carbonate	mg/L				--	< 10	< 10	< 10	< 10	--	< 10	--	< 2.6 U
Hardness (as CaCO3)	mg/L				--	654	708	680	714	--	704	--	690
Magnesium	mg/L				--	50.5	50.2	50.6	48.4	38.7	50.6	49.1	50
Potassium	mg/L				--	2.7	0.87	0.86	0.6	< 0.5	0.73	0.69	--
Sodium	mg/L				--	61.6	68.3	64.5	50.3	42	46.8	45.7	--

Groundwater Sampling Results for MW-3

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-3 5/4/2021 N Downgradient Background T	MW-3 8/3/2021 N Downgradient Background T	MW-3 2/1/2022 N Downgradient Background T	MW-3 8/2/2022 N Downgradient Background T	MW-3 2/7/2023 N Downgradient Background T	MW-3 8/1/2023 N Downgradient Background T	MW-3 1/29/2024 N Downgradient Background T	MW-3 8/5/2024 N Downgradient Background T	MW-3 2/6/2025 N Downgradient AM T	MW-3 2/6/2025 FD Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS										
Field Parameters														
pH	su				7.2	7.15	7.23	7.27	7.28	7.18	7.38	7.24	7.33	7.33
Specific Conductivity	mS/cm				1.8	1.796	1.815	1.829	1.765	1.726	1.765	1.695	1.647	1.647
Turbidity	NTU				2.1	8.01	4.83	5.19	4.15	4.95	0.98	0.02	2.48	2.48
Dissolved Oxygen	mg/L				0.1	0.03	0.16	0.17	0.35	0.12	0.08	0.09	0.09	0.09
Temperature	deg C				12	14.1	10.6	14.2	12.2	14.2	9.9	17.5	11.5	11.5
Oxidation Reduction Potential	mV				-37.5	-65.2	-40.3	-92.1	-74.2	-64.1	-55.7	-25.1	-59.9	-59.9
Part 115														
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	2.01	2.05	1.94	1.8	2.03	1.7	1.84	1.52	1.6	1.6
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0022	0.0023
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0018 J	0.0019 J
Appendix III														
Boron	mg/L	0.48		0.5	5.41	6.16	5.62	5.89	5.63	5.67	5.68	5.34	5.6	5.6
Calcium	mg/L	188		188	243	223	255	241	248	253	252	257	230	230
Chloride	mg/L	94.377	250	250	89	92	94	101	102	99	99.5	103	95	95
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.19	0.18
pH (Field Measure)	su				7.2	7.15	7.23	7.27	7.28	7.18	7.38	7.24	7.33	7.33
Sulfate	mg/L	344	250	344	698	727	682	704	727	675	689	732	690	670
Total Dissolved Solids	mg/L	1168.639	500	1168.639	1490	1500	1480	1440	1450	1440	1430	1430	1200	1300
Appendix IV														
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.003	0.003	0.003	0.003	0.003	0.004	0.006	0.003	0.0026 J	0.0023 J
Barium	mg/L	0.168	2	2	0.021	0.021	0.02	0.019	0.019	0.019	0.017	0.017	0.016	0.017
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00049 J	0.00048 J
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.19	0.18
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.077	0.086	0.086	0.091	0.082	0.079	0.08	0.075	0.075	0.073
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.162	0.153	0.164	0.162	0.182	0.166	0.176	0.156	0.15	0.15
Radium-226	pCi/L				0.437	0.152	0.554	0.355	0.566	0.176	0.0361	0.628	< 0.331 UJ	< 0.226 UJ
Radium-228	pCi/L				0.76	0.963	1.9	2.56 J+	1.61	0.236	0.837	0.413	< 0.676 UJ	< 0.598 UJ
Radium-226/228	pCi/L	5	5	5	1.2	1.11	2.45	2.92 J+	2.18	0.412	0.873	1.04	< 0.676 UJ	< 0.598 UJ
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U
Other														
Total Suspended Solids	mg/L				3	1 U	2 U	4	< 3	3.3	3.2	3.3	4.1	4 J
Bicarbonate	mg/L				--	--	--	210	215	210	228	240	180 B	180 B
Carbonate	mg/L				--	--	--	< 10	< 10	< 10	< 10	< 10	< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				--	--	--	784	795	794	774	802	760	760
Magnesium	mg/L				--	--	--	45.9	46.5	49.8	50.7	49.2	46	46
Potassium	mg/L				--	--	--	1.67	1.67	1.73	1.81	1.67	--	--
Sodium	mg/L				--	--	--	111	113	121	119	119	--	--

Groundwater Sampling Results for MW-4

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-4 4/28/2020 N Upgradient Background T	MW-4 4/28/2020 FD Upgradient Background T	MW-4 5/26/2020 N Upgradient Background T	MW-4 5/26/2020 FD Upgradient Background T	MW-4 6/23/2020 N Upgradient Background T	MW-4 6/23/2020 FD Upgradient Background T	MW-4 7/21/2020 N Upgradient Background T	MW-4 7/21/2020 FD Upgradient Background T	MW-4 8/18/2020 N Upgradient Background T	MW-4 8/18/2020 FD Upgradient Background T	MW-4 9/15/2020 N Upgradient Background T	MW-4 9/15/2020 FD Upgradient Background T	MW-4 9/28/2020 N Upgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.18	7.18	7.13	7.13	7.11	7.11	7.23	7.23	7.24	7.24	7.28	7.28	7.14
Specific Conductivity	mS/cm				0.902	0.902	0.894	0.894	0.911	0.911	0.89	0.89	0.88	0.88	0.888	0.888	0.859
Turbidity	NTU				2.57	2.57	0.26	0.26	3.01	3.01	1.7	1.7	1.56	1.56	1.64	1.64	1.08
Dissolved Oxygen	mg/L				0.31	0.31	0.29	0.29	0.02	0.02	0.03	0.03	0.01	0.01	0.02	0.02	0.02
Temperature	deg C				10.2	10.2	14.1	14.1	13.5	13.5	14.7	14.7	14.2	14.2	13.7	13.7	13.4
Oxidation Reduction Potential	mV				-76.7	-76.7	-45.2	-45.2	-174.8	-174.8	-68.4	-68.4	-75	-75	-153.2	-153.2	-77.3
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	1.03	1.03	1.13	1.19	1.24	1.26	1.37	1.38	1.33	1.33	1.33	1.32	1.3
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	0.031	0.035	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01
Appendix III																	
Boron	mg/L	0.48		0.5	0.05	0.05	0.06	0.06	0.06	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.07
Calcium	mg/L	188		188	113	111	115	114	108	108	105 J	102	111	107	108	110	102
Chloride	mg/L	94.377	250	250	70	70	72	72	72	73	72	72	70	71	68	70	69
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				7.18	7.18	7.13	7.13	7.11	7.11	7.23	7.23	7.24	7.24	7.28	7.28	7.14
Sulfate	mg/L	344	250	344	59	60	57	56	57	57	56	56	58	59	58	58	58
Total Dissolved Solids	mg/L	1168.639	500	1168.639	548	546	566	562	558	582	540	534	582	552	572	542	538
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.007	0.009	0.007	0.008
Barium	mg/L	0.168	2	2	0.157	0.155	0.165	0.168	0.165	0.17	0.146	0.147	0.166	0.167	0.163	0.163	0.163
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	< 0.01	< 0.01	0.009	0.009	0.008	0.008	0.009	0.008	< 0.01	< 0.01	0.01	0.01	0.01
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005
Radium-226	pCi/L				0.839	0.953	0.599	0.265	0.368 J-	0.568 J+	0.339	1.06	0.527 J+	0.34 J-	0.583 J-	1.01 J+	0.797 J+
Radium-228	pCi/L				1.08	1.38	-0.093	0.357	-0.141 J-	0.771 J+	0.863	-0.0421	2.46 J+	1.22 J-	0.113 J-	0.641 J+	0.839 J+
Radium-226/228	pCi/L	5	5	5	1.92	2.33	0.599	0.622	0.368 J-	1.34 J+	1.2	1.06	2.99 J+	1.56 J-	0.696 J-	1.65 J+	1.64 J+
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				< 3	< 3	1 U	1 U	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	2 U
Bicarbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Carbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness (as CaCO3)	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Sampling Results for MW-4

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-4 9/28/2020 FD Upgradient Background T	MW-4 10/12/2020 N Upgradient Background T	MW-4 10/12/2020 FD Upgradient Background T	MW-4 10/19/2020 N Upgradient Background T	MW-4 11/6/2020 N Upgradient Initial AM T	MW-4 11/6/2020 FD Upgradient Initial AM T	MW-4 1/27/2021 N Upgradient AM T	MW-4 1/27/2021 FD Upgradient AM T	MW-4 5/4/2021 N Upgradient AM T	MW-4 5/4/2021 FD Upgradient AM T	MW-4 8/3/2021 N Upgradient AM T	MW-4 8/3/2021 FD Upgradient AM T	MW-4 2/1/2022 N Upgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.14	7.13	7.13	7.87	7.22	7.22	7.14	7.14	7.1	7.1	7.03	7.03	7.13
Specific Conductivity	mS/cm				0.859	0.866	0.866	0.875	0.876	0.876	0.9	0.9	0.91	0.91	0.884	0.884	0.911
Turbidity	NTU				1.08	1.39	1.39	1.25	1.21	1.21	1.57	1.57	2	2	1.84	1.84	2.54
Dissolved Oxygen	mg/L				0.02	0.35	0.35	0.04	0.18	0.18	0.13	0.13	0.19	0.19	0.03	0.03	0.37
Temperature	deg C				13.4	14	14	12.9	14.4	14.4	9.7	9.7	13	13	14.4	14.4	10.6
Oxidation Reduction Potential	mV				-77.3	-63.8	-63.8	-78.1	-119.1	-119.1	-21.9	-21.9	-22.5	-22.5	-66.4	-66.4	-34
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	1.29	1.33	1.35	1.25 J	1.32	1.34	1.15	1.21	1.23	1.27	1.43	1.46	1.26
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	0.07	0.06	0.05	0.06	--	--	0.05	0.05	0.05	0.05	0.08	0.07	0.07
Calcium	mg/L	188		188	105 J	111	110	99.7 J	--	--	112	109	102	107	98.4	94.6	110
Chloride	mg/L	94.377	250	250	70	71	71	68	--	--	70	70	72	75	68	68	72
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				7.14	7.13	7.13	7.87	7.22	7.22	7.14	7.14	7.1	7.1	7.03	7.03	7.13
Sulfate	mg/L	344	250	344	58	60	59	57	--	--	57	57	56	58	52	53	54
Total Dissolved Solids	mg/L	1168.639	500	1168.639	544	538	534	554	--	--	522	514	532	526	568	570	548
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	0.009	0.009	0.009	0.009	0.009	0.009	0.007	0.007	0.006	0.007	0.008	0.008	0.008
Barium	mg/L	0.168	2	2	0.168	0.151	0.155	0.16	0.16	0.159	0.157	0.153	0.156	0.156	0.155	0.159	0.163
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.011	0.01	< 0.01	0.01	0.011	0.011	0.012	0.01	< 0.01	0.011	0.01	0.01	0.01
Mercury	mg/L	0.0002	0.002	0.002	< 0.0005	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.009	< 0.005	< 0.005
Radium-226	pCi/L				0.175 J-	0.35	0.31	0.357	0.742	0.393	0.524 J+	0.297 J-	2.12	0.626	0.232 J-	0.532 J+	0.606 J+
Radium-228	pCi/L				0.27 J-	1.65 J+	0.237 J-	0.232	0.0791	0.426	-0.957 J-	0.956 J+	2.89	-0.91	-0.362 J-	1.81 J+	2.17 J+
Radium-226/228	pCi/L	5	5	5	0.445 J-	2 J+	0.547 J-	0.589	0.821	0.819	0.524 J-	1.25 J+	5 J+	0.626 J-	0.232 J-	2.34 J+	2.78 J+
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				2 U	< 3	1 U	3 U	1 U	1 U	1 U	< 3	1 U	< 3	1 U	1 U	2 U
Bicarbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Carbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness (as CaCO3)	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Sampling Results for MW-4

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-4 2/1/2022 FD Upgradient AM T	MW-4 8/2/2022 N Upgradient AM T	MW-4 8/2/2022 FD Upgradient AM T	MW-4 2/7/2023 N Upgradient AM T	MW-4 2/7/2023 FD Upgradient AM T	MW-4 8/1/2023 N Upgradient AM T	MW-4 8/1/2023 FD Upgradient AM T	MW-4 1/29/2024 N Upgradient AM T	MW-4 8/5/2024 N Upgradient AM T	MW-4 2/4/2025 N Upgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS										
Field Parameters														
pH	su				7.13	7.19	7.19	7.19	7.19	7.06	7.06	7.26	7.13	7.25
Specific Conductivity	mS/cm				0.911	0.429	0.429	0.882	0.882	0.893	0.893	0.92	0.832	0.872
Turbidity	NTU				2.54	0.75	0.75	3.28	3.28	1.97	1.97	1.01	1.97	1.33
Dissolved Oxygen	mg/L				0.37	0.12	0.12	0.44	0.44	0.08	0.08	0.31	0.26	0.29
Temperature	deg C				10.6	13.8	13.8	11.5	11.5	14.1	14.1	10.2	15.8	10.7
Oxidation Reduction Potential	mV				-34	-88.8	-88.8	-44.2	-44.2	-68.3	-68.3	-55.1	-73.2	-50.7
Part 115														
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	1.23	1.53	1.54	1.31	1.3	1.39	1.44	1.09	1.44	0.96
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0014 JB
Appendix III														
Boron	mg/L	0.48		0.5	0.06	0.06	0.07	0.06	0.06	0.08	0.06	0.07	0.06	0.073 J
Calcium	mg/L	188		188	110	110	109	106	106	112	114	110	115	110
Chloride	mg/L	94.377	250	250	74	75	76	74	75	77	77	73.6	76.2	66
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.15
pH (Field Measure)	su				7.13	7.19	7.19	7.19	7.19	7.06	7.06	7.26	7.13	7.25
Sulfate	mg/L	344	250	344	53	51	52	56	56	52	52	57.5	53.4	56
Total Dissolved Solids	mg/L	1168.639	500	1168.639	540	554	574	532	530	558	572	556	588	510
Appendix IV														
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00065 J
Arsenic	mg/L	0.021	0.01	0.021	0.008	0.008	0.008	0.007	0.007	0.007	0.008	0.009	0.008	0.0056
Barium	mg/L	0.168	2	2	0.162	0.167	0.165	0.166	0.163	0.169	0.166	0.159	0.162	0.16
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000085 J
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00023 J
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.15
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.011	0.009	0.009	0.011	0.01	0.009	0.01	0.012	0.011	0.011
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0047 J
Radium-226	pCi/L				0.322 J-	0.393	0.457	0.701	0.898	0.744	0.501	0.434	1.59	< 0.305 U
Radium-228	pCi/L				1.41 J-	-0.793 J	2.88 J+	0.692 J+	-0.593 J-	0.877 J+	0.0402 J-	-0.253	1.86	0.727
Radium-226/228	pCi/L	5	5	5	1.74 J-	0.393 J	3.34 J+	1.39 J+	0.898 J-	0.744 J+	0.541 J-	0.434	3.44	0.995
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other														
Total Suspended Solids	mg/L				1 U	3 J+	< 3 UJ	< 3	< 3	1.8	2.1	1.5	2.4	1.4 J
Bicarbonate	mg/L				--	400	410	406	407	420	400	416	420	320
Carbonate	mg/L				--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				--	412	426	420	431	450	434	428	442	420
Magnesium	mg/L				--	39.3	38.8	38.3	38.9	39.6	40.5	38.9	40.8	37
Potassium	mg/L				--	1.41	1.41	1.39	1.41	1.45	1.49	1.47	1.41	--
Sodium	mg/L				--	28.9	28.3	28.5	28.2	31.2	31.7	33.9	33.2	--

Groundwater Sampling Results for MW-5

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-5 4/28/2020 N Downgradient Background T	MW-5 5/26/2020 N Downgradient Background T	MW-5 6/23/2020 N Downgradient Background T	MW-5 7/21/2020 N Downgradient Background T	MW-5 8/18/2020 N Downgradient Background T	MW-5 9/15/2020 N Downgradient Background T	MW-5 9/28/2020 N Downgradient Background T	MW-5 10/12/2020 N Downgradient Background T	MW-5 10/19/2020 N Downgradient Background T	MW-5 11/6/2020 N Downgradient Initial AM T	MW-5 1/27/2021 N Downgradient AM T	MW-5 5/4/2021 N Downgradient AM T	MW-5 8/3/2021 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.27	7.24	7.31	7.34	7.3	7.17	6.71	7.34	7.45	7.16	7.35	6.4	7.22
Specific Conductivity	mS/cm				1.576	1.882	1.97	1.869	1.75	1.893	1.945	2.493	1.425	2.234	1.295	1.6	1.772
Turbidity	NTU				179.57	69.71	17.91	15.1	20.25	19.02	15.75	12.35	9.58	18.49	15.25	21	9.52
Dissolved Oxygen	mg/L				0.55	0.65	2.61	3.85	2.5	0.64	1.27	3.49	4.25	1.02	2.34	2.45	2.45
Temperature	deg C				11.6	13.9	15.2	17.5	12.7	12.3	12.5	15.5	11.6	12.5	8.6	13	13.3
Oxidation Reduction Potential	mV				-33	28.7	-34.8	58.4	69.5	-24.8	180.1	-31.2	130.2	17.5	191.2	248.4	132.6
Part 115																	
Copper	mg/L	0.005	1.3	1	0.009	< 0.005	< 0.005	0.026	0.005	< 0.005	< 0.005	0.011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	8	1.93	0.39	0.27	2.45	0.21	0.18	1.74	0.18 J	< 0.02	0.63	0.9	1.12
Nickel	mg/L	0.021		0.1	0.019	0.016	0.013	0.011	0.013	0.011	0.016	0.018	0.014	0.007	0.01	0.01	0.01
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	0.012	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	0.023	0.033	0.026	0.007	0.011	< 0.005	0.006	0.014	< 0.005	< 0.005	0.098	< 0.005	0.005
Appendix III																	
Boron	mg/L	0.48		0.5	4.99	5.19	4.59	4.57	4.48	5	5.09	5	5.75	--	4.61	3.66	4.82
Calcium	mg/L	188		188	245	320	289	251 J	266	266	283	372	319 J	--	245	221	229
Chloride	mg/L	94.377	250	250	68	82	75	80	76	77	78	81	83	--	66	73	66
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				7.27	7.24	7.31	7.34	7.3	7.17	6.71	7.34	7.45	7.16	7.35	6.4	7.22
Sulfate	mg/L	344	250	344	591	930	931	877	714	791	873	1080	1170	--	578	581	700
Total Dissolved Solids	mg/L	1168.639	500	1168.639	1280	1770	1720	1640	1520	1540	1660	1960	2020	--	1220	1230	1390
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	0.005	0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002
Barium	mg/L	0.168	2	2	0.064	0.056	0.049	0.041	0.056	0.043	0.043	0.048	0.042	0.033	0.039	0.038	0.04
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	0.005	< 0.003	< 0.003	< 0.003	0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.091	0.051	0.061	0.074	0.085	0.091	0.07	0.054	0.046	0.057	0.08	0.073	0.078
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	0.096	0.051	0.05	0.052	0.067	0.053	0.044	0.038	0.035	0.032	0.054	0.05	0.039
Radium-226	pCi/L				1.1	1.08	0.223	0.811	0.3	0.773	0.759	0.709	0.6	3.3	0.787	0.349	0.374
Radium-228	pCi/L				0.187	0.28	0.302	0.721	0.253	-0.641	1.47	1.38	-0.262	0.921	3.2 J	0.726	0.271
Radium-226/228	pCi/L	5	5	5	1.29	1.36	0.524	1.53	0.552	0.773	2.23	2.09	0.6	4.22	3.99 J	1.08	0.644
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				161	21	23	37	20	61	6	14	7	4	7	8	4
Bicarbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Carbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness (as CaCO3)	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Sampling Results for MW-5

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-5 2/1/2022 N Downgradient AM T	MW-5 8/2/2022 N Downgradient AM T	MW-5 2/7/2023 N Downgradient AM T	MW-5 2/7/2023 N Downgradient AM D	MW-5 8/1/2023 N Downgradient AM T	MW-5 8/1/2023 N Downgradient AM D	MW-5 1/29/2024 N Downgradient AM T	MW-5 1/29/2024 N Downgradient AM D	MW-5 8/5/2024 N Downgradient AM T	MW-5 8/5/2024 N Downgradient AM D	MW-5 2/4/2025 N Downgradient AM T	MW-5 2/4/2025 N Downgradient AM D
Constituent	Unit	BTV(1)	MCL	State GPS												
Field Parameters																
pH	su				7.18	7.4	7.13	--	7.24	--	7.38	--	7.27	--	7.33	--
Specific Conductivity	mS/cm				1.238	1.643	1.304	--	1.076	--	1.002	--	1.029	--	1.042	--
Turbidity	NTU				14.21	20.19	23.53	--	15.85	--	25.15	--	24.7	--	12.18	--
Dissolved Oxygen	mg/L				3.21	5.42	3.52	--	3.81	--	3.16	--	4.45	--	2.41	--
Temperature	deg C				10.1	15.3	10.5	--	16.1	--	6.9	--	18.8	--	6.4	--
Oxidation Reduction Potential	mV				59.1	28.6	164.6	--	158	--	119.2	--	133.8	--	110.4	--
Part 115																
Copper	mg/L	0.005	1.3	1	0.019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0026	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	4.69	0.75	0.53	< 0.02	1.25	< 0.02	0.33	< 0.02	1.24	< 0.02	0.16	0.12
Nickel	mg/L	0.021		0.1	0.008	0.011	0.006	0.005	0.006	< 0.005	0.005	< 0.005	0.007	< 0.005	0.0047	0.0038
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000088 J	< 0.000053 U
Vanadium	mg/L	0.005		0.062	0.009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	0.0015 J	< 0.00082 U
Zinc	mg/L	0.036	5	5	0.048	0.009	0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	0.008	< 0.005	0.0037 JB	0.0044 JB
Appendix III																
Boron	mg/L	0.48		0.5	0.37	4.29	3.53	3.26	2.77	2.67	2.86	2.74	2.89	2.87	3.9	4
Calcium	mg/L	188		188	70.1	223	187	176	173	162	153	126	160	151	150	140
Chloride	mg/L	94.377	250	250	43	66	56	--	51	--	37.2	--	36.5	--	34	--
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	--	< 1	--	< 1	--	< 1	--	0.11	--
pH (Field Measure)	su				7.18	7.4	7.13	--	7.24	--	7.38	--	7.27	--	7.33	--
Sulfate	mg/L	344	250	344	186	598	411	--	288	--	319	--	335	--	310	--
Total Dissolved Solids	mg/L	1168.639	500	1168.639	592	1210	984	--	792	--	788	--	816	--	760	--
Appendix IV																
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.004	< 0.002	< 0.002	< 0.002	< 0.00075 U	< 0.00075 U
Barium	mg/L	0.168	2	2	0.055	0.044	0.04	0.036	0.047	0.041	0.04	0.044	0.045	0.039	0.043	0.038
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000092 J	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	0.007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0014 J	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00062 J	0.00032 J
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	--	< 1	--	< 1	--	< 1	--	0.11	--
Lead	mg/L	0.003	0.015	0.004	0.014	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.00069 J	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.016	0.076	0.083	0.085	0.085	0.081	0.069	0.073	0.065	0.064	0.06	0.056
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.01	0.063	0.055	0.055	0.072	0.07	0.082	0.078	0.081	0.079	0.058	0.053
Radium-226	pCi/L				0.252	0.525	0.558	--	0.409	--	0.857	--	1.09	--	< 0.285 U	--
Radium-228	pCi/L				1.54	0.33 J+	1.22	--	1.24	--	1.88	--	0.615	--	< 0.67 U	--
Radium-226/228	pCi/L	5	5	5	1.79	0.855 J+	1.78	--	1.65	--	2.73	--	1.71	--	< 0.67 U	--
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U
Other																
Total Suspended Solids	mg/L				63	17	21	--	8.6	--	7.7	--	10.3	--	8.7	--
Bicarbonate	mg/L				--	280	320	--	290	--	298	--	290	--	240	--
Carbonate	mg/L				--	< 10	< 10	--	< 10	--	< 10	--	< 10	--	< 2.6 U	--
Hardness (as CaCO3)	mg/L				--	748	629	--	530	--	502	--	534	--	510	--
Magnesium	mg/L				--	54.5	42.3	39.9	38.1	34.5	33.3	24.8	36.7	33.5	34	31
Potassium	mg/L				--	3.77	4.44	4.06	4.61	4.22	4.34	3.33	4.52	4.18	--	--
Sodium	mg/L				--	69.5	57.4	52.3	47.8	44.1	45.6	34.4	49.1	46	--	--

Groundwater Sampling Results for MW-6

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-6 4/28/2020 N Downgradient Background T	MW-6 5/26/2020 N Downgradient Background T	MW-6 6/23/2020 N Downgradient Background T	MW-6 7/21/2020 N Downgradient Background T	MW-6 8/18/2020 N Downgradient Background T	MW-6 9/15/2020 N Downgradient Background T	MW-6 9/28/2020 N Downgradient Background T	MW-6 10/12/2020 N Downgradient Background T	MW-6 10/19/2020 N Downgradient Background T	MW-6 11/6/2020 N Downgradient Initial AM T	MW-6 1/27/2021 N Downgradient AM T	MW-6 5/4/2021 N Downgradient AM T	MW-6 8/3/2021 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				6.64	6.35	6.68	6.76	6.8	6.85	6.69	6.71	7.11	6.76	6.72	7	6.51
Specific Conductivity	mS/cm				0.954	0.902	1.044	1.075	1.13	1.251	1.149	1.205	1.275	1.169	1.178	1	1.022
Turbidity	NTU				16.71	17.8	33.6	6.61	8.99	6.95	5.42	8.45	8.35	9.69	1.19	8	8.74
Dissolved Oxygen	mg/L				0.05	0.01	0.09	0.09	0.05	0.04	0.02	0.24	0.04	0.18	0.12	0.1	0.07
Temperature	deg C				10.5	14.2	11.7	13.4	13	13.6	12.6	14.3	12.8	15.2	11	12	13.2
Oxidation Reduction Potential	mV				-26.9	102.4	-45.9	139.7	91.1	-66.5	59.5	88.9	91.2	12	122.9	70.8	168.5
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	0.08	0.2	0.07	0.05	0.03	< 0.02	< 0.02	< 0.02	< 0.02 UJ	< 0.02	< 0.02	< 0.02	0.02
Nickel	mg/L	0.021		0.1	0.005	< 0.005	0.007	0.007	0.008	0.007	0.008	0.007	0.007	0.007	0.006	0.006	0.007
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	0.034	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	0.56	0.49	0.65	0.75	0.86	1.05	0.97	0.99	1.09	--	0.91	0.64	0.76
Calcium	mg/L	188		188	142	143	154	161 J	170	192	175	189	173 J	--	191	149	146
Chloride	mg/L	94.377	250	250	26	24	29	33	37	43	39	41	42	--	38	27	27
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				6.64	6.35	6.68	6.76	6.8	6.85	6.69	6.71	7.11	6.76	6.72	7	6.51
Sulfate	mg/L	344	250	344	135	123	154	183	222	264	214	242	263	--	198	133	139
Total Dissolved Solids	mg/L	1168.639	500	1168.639	642	598	706	738	820	880	822	868	898	--	798	658	692
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.168	2	2	0.042	0.05	0.042	0.044	0.053	0.054	0.055	0.054	0.057	0.052	0.052	0.044	0.043
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.037	0.038	0.037	0.041	0.044	0.055	0.053	0.052	0.059	0.058	0.048	0.048	0.047
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	0.021	0.021	0.026	0.025	0.03	0.031	0.028	0.029	0.034	0.028	0.024	0.024	0.029
Radium-226	pCi/L				0.212	-0.0419	0.379	-0.0445	0.415	0.458	0.533	0.461	0.537	0.343	0.263	0.32	0.116
Radium-228	pCi/L				0.384	-0.481	-0.299	0.46	1.06	-0.00462	0.225	0.176	-0.866	1.36	1.72	1.13	1.3
Radium-226/228	pCi/L	5	5	5	0.596	0	0.379	0.46	1.48	0.458	0.758	0.637	0.537	1.7	1.98	1.45	1.42
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				< 3	6	< 3	< 3	< 3	< 3	< 3	< 3	1 U	< 3	< 3	< 3	2 U
Bicarbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Carbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness (as CaCO3)	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Sampling Results for MW-6

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-6 2/1/2022 N Downgradient AM T	MW-6 8/2/2022 N Downgradient AM T	MW-6 2/7/2023 N Downgradient AM T	MW-6 8/1/2023 N Downgradient AM T	MW-6 1/29/2024 N Downgradient AM T	MW-6 1/29/2024 FD Downgradient AM T	MW-6 8/5/2024 N Downgradient AM T	MW-6 2/4/2025 N Downgradient AM T	MW-6 2/4/2025 FD Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS									
Field Parameters													
pH	su				6.69	6.79	6.74	6.71	6.78	6.78	6.79	6.83	6.83
Specific Conductivity	mS/cm				1.045	1.091	1.224	1.133	1.006	1.006	1.068	1.293	1.293
Turbidity	NTU				4.52	2.65	4.43	2.15	1.41	1.41	3.67	1.3	1.3
Dissolved Oxygen	mg/L				0.08	0.44	0.19	0.33	0.29	0.29	2.03	0	0
Temperature	deg C				13.4	14.4	12.8	14.2	10.2	10.2	15.8	12.7	12.7
Oxidation Reduction Potential	mV				68.6	18.3	30.1	202.1	96.1	96.1	117.2	33.2	33.2
Part 115													
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	0.04	0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.013 U	< 0.013 U
Nickel	mg/L	0.021		0.1	0.007	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.005	0.0033	0.0032
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.002 J+	0.0011 J-
Appendix III													
Boron	mg/L	0.48		0.5	0.68	0.8	0.99	0.85	0.57	0.61	0.71	1	0.99
Calcium	mg/L	188		188	160	169	193	189	161	161	191	200	190
Chloride	mg/L	94.377	250	250	27	35	42	39	26.5	26.5	38.4	49	49
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.24	0.24
pH (Field Measure)	su				6.69	6.79	6.74	6.71	6.78	6.78	6.79	6.83	6.83
Sulfate	mg/L	344	250	344	131	172	233	185	118	119	180	250	240
Total Dissolved Solids	mg/L	1168.639	500	1168.639	688	728	866	822	660	658	792	900	860
Appendix IV													
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	< 0.002	< 0.002	0.003	0.003	< 0.002	< 0.00075 U	< 0.00075 U
Barium	mg/L	0.168	2	2	0.044	0.038	0.046	0.05	0.049	0.049	0.053	0.062	0.061
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00015 J+	0.000081 J-
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00053 J	0.00054 J
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.24	0.24
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.044	0.046	0.054	0.049	0.032	0.034	0.05	0.067	0.066
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.036	0.016	0.027	0.021	0.012	0.013	0.018	0.029	0.029
Radium-226	pCi/L				0.571	0.0773	0.961	0.462	0.435 J+	0.19 J-	3.59	0.261 J+	< 0.277 UJ
Radium-228	pCi/L				2.04	0.324 J+	-1.09	0.201	0.746 J-	2.24 J+	0.704	< 0.544 UJ	2.32 J+
Radium-226/228	pCi/L	5	5	5	2.61	0.401 J+	0.961	0.663	1.18 J-	2.43 J+	4.29	< 0.544 UJ	2.49 J+
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U
Other													
Total Suspended Solids	mg/L				32	< 3	< 3	1.4	< 3	< 3	1.1	< 0.4 U	< 0.4 U
Bicarbonate	mg/L				--	480	543	530	516	510	530	440	440
Carbonate	mg/L				--	< 10	< 10	< 10	< 10	< 10	< 10	< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				--	532	624	616	522	512	638	690	680
Magnesium	mg/L				--	32.9	39.4	40.3	29.9	30.5	40.1	48	47
Potassium	mg/L				--	6.4	6.85	7.02	6.77	6.72	7.06	--	--
Sodium	mg/L				--	38.8	43.9	34.3	32.4	32.7	29.5	--	--

Groundwater Sampling Results for MW-7

LBWL Erickson Station

Sample Location:					MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
Sample Date:					6/15/2021	7/20/2021	8/24/2021	9/28/2021	11/2/2021	12/7/2021	1/11/2022	2/17/2022	8/2/2022	2/8/2023	8/2/2023	1/30/2024	1/30/2024
Sample Type:					N	N	N	N	N	N	N	N	N	N	N	N	FD
Gradient:					Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient
Sampling Phase:					Background	Background	Background	Background	Background	Background	Background	Background	AM	AM	AM	AM	AM
Fraction:					T	T	T	T	T	T	T	T	T	T	T	T	T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				8.18	7.4	7.4	7.47	7.37	7.47	7.56	7.24	7.58	7.58	7.44	7.09	7.09
Specific Conductivity	mS/cm				0.879	0.9	0.916	0.925	0.462	0.972	0.964	1.129	0.965	0.78	0.845	1.21	1.21
Turbidity	NTU				1.71	5	5.37	16.01	5.18	2.2	2.49	2.21	2.65	3.53	1.45	4.98	4.98
Dissolved Oxygen	mg/L				0.03	< 0.1	0.01	0.02	0	0.02	0.49	0.01	0.16	0.04	0.01	0.08	0.08
Temperature	deg C				12.9	14	17	14.3	13	11	9.1	6.2	14.6	9.9	15.9	8.2	8.2
Oxidation Reduction Potential	mV				-142.1	-117.2	-139.5	-128.3	-146.5	-157.1	-112.6	-36.9	-129	-81.3	-146.9	-100.6	-100.6
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	1.34	1.25	1.31	1.37	1.49	1.5	1.52	2.81	1.19	1	1.04	1.91	1.89
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	0.005
Zinc	mg/L	0.036	5	5	< 0.005	0.007	0.014	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.007	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	1.88	1.78	1.89	1.81	2.12	2.19	2.14	2.75	1.43	1.36	1.08	1.72	1.67
Calcium	mg/L	188		188	110	111	112	108	122	126	121	149	104	98.8	97.2	165	159
Chloride	mg/L	94.377	250	250	73	74	74	75	73	72.2	78	75	98	82	81	82.9	81.7
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.338	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				8.18	7.4	7.4	7.47	7.37	7.47	7.56	7.24	7.58	7.58	7.44	7.09	7.09
Sulfate	mg/L	344	250	344	189	181	184	191	212	203	214	260	175	198	172	270	267
Total Dissolved Solids	mg/L	1168.639	500	1168.639	586	574	592	588	622	634	624	758	590	564	548	864	866
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	0.006	0.006	0.007	0.006	0.005	0.006	0.006	0.005	0.004	0.004	0.006	0.006	0.006
Barium	mg/L	0.168	2	2	0.056	0.06	0.052	0.051	0.054	0.056	0.055	0.062	0.047	0.049	0.05	0.036	0.037
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.338	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.089	0.096	0.093	0.097	0.1	0.1	0.1	0.112	0.086	0.073	0.063	0.082	0.079
Mercury	mg/L	0.0002	0.002	0.002	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	0.259	0.26	0.292	0.276	0.276	0.293	0.296	0.284	0.146	0.173	0.156	0.184	0.186
Radium-226	pCi/L				0.253	1.4	0.766	0.829	0.666 J	2.64	0.676	0.818	0.568	1.06	0.619	0 J-	0.693 J+
Radium-228	pCi/L				1.85 J+	3.42	0.535	2.49	0.115	0.179	-0.65	1.51	1.27 J+	4.38	1.18	0.514 J-	0.906 J+
Radium-226/228	pCi/L	5	5	5	2.11 J+	4.82	1.3	3.32	0.781 J	2.82	0.676	2.33	1.84 J+	5.44	1.8	0.514 J-	1.6 J+
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				< 3	< 3	< 3	< 3	< 3	< 3	< 3	1 U	< 3	< 3	< 3	2.6	3.3
Bicarbonate	mg/L				--	--	--	--	--	--	--	--	180	163	150	334	346
Carbonate	mg/L				--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				--	--	--	--	--	--	--	--	305	290	289	496	510
Magnesium	mg/L				--	--	--	--	--	--	--	--	12.3	12.3	12.1	20.5	20.4
Potassium	mg/L				--	--	--	--	--	--	--	--	9.53	8.9	9.44	5.77	5.69
Sodium	mg/L				--	--	--	--	--	--	--	--	71.1	66.5	68.1	83.9	83.9

Groundwater Sampling Results for MW-7

LBWL Erickson Station

Sample Location:					MW-7	MW-7
Sample Date:					8/8/2024	2/5/2025
Sample Type:					N	N
Gradient:					Downgradient	Downgradient
Sampling Phase:					AM	AM
Fraction:					T	T
Constituent	Unit	BTV(1)	MCL	State GPS		
Field Parameters						
pH	su				7.42	7.36
Specific Conductivity	mS/cm				0.909	0.97
Turbidity	NTU				6.68	3.02
Dissolved Oxygen	mg/L				0.43	-0.28
Temperature	deg C				15.3	7.9
Oxidation Reduction Potential	mV				-90	-60.4
Part 115						
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	1.4	0.9
Nickel	mg/L	0.021		0.1	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.00093 U
Appendix III						
Boron	mg/L	0.48		0.5	2.03	2
Calcium	mg/L	188		188	111	110
Chloride	mg/L	94.377	250	250	87.6	81
Fluoride	mg/L	1	4	2	0.3	0.37
pH (Field Measure)	su				7.42	7.36
Sulfate	mg/L	344	250	344	171	190
Total Dissolved Solids	mg/L	1168.639	500	1168.639	614	610
Appendix IV						
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.005	0.0027 J
Barium	mg/L	0.168	2	2	0.056	0.048
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	0.007	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	0.00026 J
Fluoride	mg/L	1	4	2	0.3	0.37
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.08	0.075
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.196	0.17
Radium-226	pCi/L				0.946	0.272
Radium-228	pCi/L				0.87	< 0.726 U
Radium-226/228	pCi/L	5	5	5	1.82	0.983
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.00051 U
Other						
Total Suspended Solids	mg/L				< 3	0.6 J
Bicarbonate	mg/L				240	190
Carbonate	mg/L				< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				338	320
Magnesium	mg/L				15.1	14
Potassium	mg/L				9.98	--
Sodium	mg/L				72.3	--

Groundwater Sampling Results for MW-7B

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-7B 3/9/2022 N Downgradient Background T	MW-7B 3/9/2022 FD Downgradient Background T	MW-7B 4/13/2022 N Downgradient Background T	MW-7B 4/13/2022 FD Downgradient Background T	MW-7B 5/19/2022 N Downgradient Background T	MW-7B 6/23/2022 N Downgradient Background T	MW-7B 7/28/2022 N Downgradient Background T	MW-7B 9/1/2022 N Downgradient Background T	MW-7B 10/6/2022 N Downgradient Background T	MW-7B 11/10/2022 N Downgradient Background T	MW-7B 2/8/2023 N Downgradient AM T	MW-7B 8/2/2023 N Downgradient AM T	MW-7B 1/30/2024 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				8.14	8.14	8.04	8.04	8.07	7.73	7.81	7.9	7.8	7.85	8.15	7.87	8.17
Specific Conductivity	mS/cm				0.73	0.73	0.588	0.588	0.589	0.586	0.588	0.58	0.587	0.577	0.577	0.565	0.579
Turbidity	NTU				0.02	0.02	7.01	7.01	6.25	6.01	4.05	4.2	5.25	6.01	3.12	0.98	6.39
Dissolved Oxygen	mg/L				0.85	0.85	0.26	0.26	0.1	0.09	0.11	0.67	0.16	0.12	0.07	0.02	0.1
Temperature	deg C				11.7	11.7	11	11	13.1	13.3	14.1	14	13.3	13.4	11.2	14.9	9.4
Oxidation Reduction Potential	mV				19.2	19.2	-95.1	-95.1	-135.8	-38.8	-108.9	-117.5	-98.2	-106.9	-130.1	-138.4	-153
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	3.04	0.3	3.04	0.06	0.06	0.03	0.03	0.03	0.05 J	0.04	0.05	0.06	0.07	0.08	0.09	0.09
Nickel	mg/L	0.011		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	3.52		3.52	3.07	3.09	2.9	2.88	3.02	3.04	2.98	3.17	2.91	2.94	3	3.06	2.92
Calcium	mg/L	69.6		69.6	10.2	10.4	9.59	9.28	8.24	9.22	9.25	9.14	8.73	9.24	8.77	9.36	8.83
Chloride	mg/L	5	250	250	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	1.9
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.3
pH (Field Measure)	su				8.14	8.14	8.04	8.04	8.07	7.73	7.81	7.9	7.8	7.85	8.15	7.87	8.17
Sulfate	mg/L	5	250	250	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	1.3
Total Dissolved Solids	mg/L	380	500	500	366	366	362	370	366	362	376	356	376	368	362	356	372
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.009	0.01	0.01	< 0.002	< 0.002	0.003	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003
Barium	mg/L	0.081	2	2	0.01	0.009	0.011	0.011	0.01	0.009	0.009	0.009	0.01	0.008	0.009	0.008	0.008
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.3
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.012	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.051	0.04	0.051	0.034	0.035	0.028	0.029	0.031	0.031	0.032	0.032	0.032	0.032	0.032	0.031	0.033
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.011	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Radium-226	pCi/L				0.451	0.629	0.439	0.52	0.378	0.547	0.278	0.44	0.988	0.463	0.504	0.434	0.355
Radium-228	pCi/L				1.27	0.536	0.872	0.428	-0.123	1.88	0.136 J+	0.286	0.103	1.3	-0.879	1.13	1.01
Radium-226/228	pCi/L	5.5	5	5.5	1.72	1.16	1.31	0.948	0.378	2.43	0.414 J+	0.726	1.09	1.77	0.504	1.57	1.36
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	1
Bicarbonate	mg/L				390	390	390	400	400	380	390	390	390	400	418	400	395
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				38	40	37	51	29	31	30	29	30	29	29	38	29.5
Magnesium	mg/L				2.93	3	2.99	2.93	2.43	2.75	2.79	2.84	2.75	2.78	2.81	2.81	2.69
Potassium	mg/L				5.48	5.57	5.64	5.57	4.8	5.57	5.72	5.61	5.53	5.85	5.58	5.78	5.63
Sodium	mg/L				132	131	136	133	116	135	138	140	138	137	142	146	87.5

Groundwater Sampling Results for MW-7B

LBWL Erickson Station

Sample Location:					MW-7B	MW-7B
Sample Date:					8/8/2024	2/5/2025
Sample Type:					N	N
Gradient:					Downgradient	Downgradient
Sampling Phase:					AM	AM
Fraction:					T	T
Constituent	Unit	BTV(1)	MCL	State GPS		
Field Parameters						
pH	su				8	8.04
Specific Conductivity	mS/cm				0.585	0.559
Turbidity	NTU				9.44	6.11
Dissolved Oxygen	mg/L				0.3	-0.19
Temperature	deg C				14.3	10.1
Oxidation Reduction Potential	mV				-114.8	-119.4
Part 115						
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	0.12	0.095 J
Nickel	mg/L	0.011		0.1	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.00082 U
Zinc	mg/L	0.042	5	5	< 0.005	0.0011 JB
Appendix III						
Boron	mg/L	3.52		3.52	2.95	2.8
Calcium	mg/L	69.6		69.6	8.87	7.6
Chloride	mg/L	5	250	250	1.9	0.82 J
Fluoride	mg/L	1	4	2	0.6	0.74
pH (Field Measure)	su				8	8.04
Sulfate	mg/L	5	250	250	1.1	2.4
Total Dissolved Solids	mg/L	380	500	500	358	350
Appendix IV						
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.00057 U
Arsenic	mg/L	0.009	0.01	0.01	< 0.002	< 0.00075 U
Barium	mg/L	0.081	2	2	0.008	0.0075
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.000086 U
Fluoride	mg/L	1	4	2	0.6	0.74
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.032	0.031
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	< 0.005	< 0.0011 U
Radium-226	pCi/L				0.623	< 0.279 U
Radium-228	pCi/L				0.207	2.61
Radium-226/228	pCi/L	5.5	5	5.5	0.83	2.73
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.00051 U
Other						
Total Suspended Solids	mg/L				1	0.9 J
Bicarbonate	mg/L				380	310
Carbonate	mg/L				< 10	8
Hardness (as CaCO3)	mg/L				27	< 33 U
Magnesium	mg/L				2.65	2.4
Potassium	mg/L				5.71	--
Sodium	mg/L				139	--

Groundwater Sampling Results for MW-7C

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-7C 3/10/2022 N Downgradient Background T	MW-7C 3/10/2022 FD Downgradient Background T	MW-7C 4/14/2022 N Downgradient Background T	MW-7C 5/19/2022 N Downgradient Background T	MW-7C 6/23/2022 N Downgradient Background T	MW-7C 7/28/2022 N Downgradient Background T	MW-7C 9/1/2022 N Downgradient Background T	MW-7C 10/6/2022 N Downgradient Background T	MW-7C 11/10/2022 N Downgradient Background T	MW-7C 2/8/2023 N Downgradient AM T	MW-7C 8/2/2023 N Downgradient AM T	MW-7C 1/30/2024 N Downgradient AM T	MW-7C 8/8/2024 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.32	7.32	7.51	7.49	7.28	7.24	7.3	7.23	7.35	7.41	7.24	7.44	7.3
Specific Conductivity	mS/cm				2.01	2.01	1.811	1.758	1.651	1.672	1.7	1.33	1.678	1.537	1.619	1.563	1.514
Turbidity	NTU				0.02	0.02	5.87	3.95	2.59	1.97	2.8	4.2	4.01	7.29	0.65	5.95	8.57
Dissolved Oxygen	mg/L				1.77	1.77	0.23	0.07	0.08	0.09	0.61	0.12	0.09	0.09	0.06	0.07	0.28
Temperature	deg C				12.3	12.3	11	13.7	13.8	14.3	16	13.7	13.8	11.3	16.4	9.2	14.7
Oxidation Reduction Potential	mV				-39	-39	-121.4	-182.8	-110.2	-151.5	-136.4	-128.8	-120.4	-111.5	-130	-134.4	-103.3
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	4.15	4.11	4.34	4.28	3.77 J	3.84	4.11	3.81	4.11	3.67	4.02	4.41	4.3
Nickel	mg/L	0.021		0.1	0.01	0.011	0.008	0.008	0.007	0.008	0.008	0.007	0.007	0.007	0.007	0.008	0.007
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	0.007	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	6.54	6.55	6.44	6.74	6.46	6.7	7.24	6.29	6.62	6.46	6.68	6.62	6.38
Calcium	mg/L	188		188	277	272	255	183	245	241	247	234	243	246	235	238	241
Chloride	mg/L	94.377	250	250	96	95	101	93	91	90	93	93	92	94	93	90.1	105
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				7.32	7.32	7.51	7.49	7.28	7.24	7.3	7.23	7.35	7.41	7.24	7.44	7.3
Sulfate	mg/L	344	250	344	751	761	736	723	668	660	703	675	685	687	656	650	663
Total Dissolved Solids	mg/L	1168.639	500	1168.639	1500	1500	1450	1420	1360	1360	1370	1360	1360	1360	1350	1330	1310
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	0.007	0.007	0.006	0.007	0.006	0.006	0.006	0.006	0.005	0.006	0.007	0.01	0.007
Barium	mg/L	0.168	2	2	0.045	0.046	0.043	0.046	0.041	0.042	0.047	0.041	0.044	0.041	0.044	0.042	0.039
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	0.0007	< 0.0005	< 0.0005	0.0008	< 0.0005	0.0009	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.132	0.129	0.121	0.13	0.127	0.138	0.137	0.128	0.125	0.125	0.126	0.126	0.119
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	0.409	0.409	0.402	0.422	0.379	0.39	0.405	0.377	0.415	0.386	0.397	0.409	0.388
Radium-226	pCi/L				0.867	0.916	0.566	0.444	0.958	0.193	0.606	0.595	0.68	1.11	0.795	0.768	0.887
Radium-228	pCi/L				2.79	2.11	3.09	0.55	2.35	0.58 J+	0.204	1.39	1.08	2.17	0.451	0.361	0.784
Radium-226/228	pCi/L	5	5	5	3.66	3.03	3.65	0.994	3.31	0.773 J+	0.81	1.99	1.76	3.27	1.25	1.13	1.67
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				27 J+	13 J-	10	9	8	< 3	< 3	< 3	6	7	7.4	5.4	9.1
Bicarbonate	mg/L				150	160	160	170	160	160	170	150	150	172	170	167	180
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				840	860	812	812	777	740	764	750	754	742	779	558	770
Magnesium	mg/L				44.1	44.9	43.1	33.7	40	40	42.2	42.1	41	42.7	41.5	44.3	42.6
Potassium	mg/L				5.34	5.04	5.68	4.92	5.89	5.71	5.88	6.14	5.96	6.07	5.79	5.75	5.82
Sodium	mg/L				97.9	97.1	96.8	79	94.2	95.7	99.1	95.7	98.7	99.8	96.6	94.7	93.1

Groundwater Sampling Results for MW-7C

LBWL Erickson Station

Sample Location:					MW-7C
Sample Date:					2/5/2025
Sample Type:					N
Gradient:					Downgradient
Sampling Phase:					AM
Fraction:					T
Constituent	Unit	BTV(1)	MCL	State GPS	
Field Parameters					
pH	su				7.39
Specific Conductivity	mS/cm				1.574
Turbidity	NTU				5.15
Dissolved Oxygen	mg/L				-0.25
Temperature	deg C				10
Oxidation Reduction Potential	mV				-109.9
Part 115					
Copper	mg/L	0.005	1.3	1	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	3.9
Nickel	mg/L	0.021		0.1	0.0059
Silver	mg/L	0.0005	0.1	0.098	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.00082 U
Zinc	mg/L	0.036	5	5	0.0012 JB
Appendix III					
Boron	mg/L	0.48		0.5	6.2
Calcium	mg/L	188		188	220
Chloride	mg/L	94.377	250	250	83
Fluoride	mg/L	1	4	2	0.24
pH (Field Measure)	su				7.39
Sulfate	mg/L	344	250	344	640
Total Dissolved Solids	mg/L	1168.639	500	1168.639	1200
Appendix IV					
Antimony	mg/L	0.005	0.006	0.006	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.0053
Barium	mg/L	0.168	2	2	0.039
Beryllium	mg/L	0.001	0.004	0.004	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.000086 U
Fluoride	mg/L	1	4	2	0.24
Lead	mg/L	0.003	0.015	0.004	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.11
Mercury	mg/L	0.0002	0.002	0.002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.35
Radium-226	pCi/L				0.425
Radium-228	pCi/L				1.79
Radium-226/228	pCi/L	5	5	5	2.21
Selenium	mg/L	0.005	0.05	0.05	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.00051 U
Other					
Total Suspended Solids	mg/L				9.9
Bicarbonate	mg/L				140
Carbonate	mg/L				< 2.6 U
Hardness (as CaCO3)	mg/L				720
Magnesium	mg/L				42
Potassium	mg/L				--
Sodium	mg/L				--

Groundwater Sampling Results for MW-8

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-8 6/15/2021 N Downgradient Background T	MW-8 7/20/2021 N Downgradient Background T	MW-8 8/24/2021 N Downgradient Background T	MW-8 9/28/2021 N Downgradient Background T	MW-8 11/2/2021 N Downgradient Background T	MW-8 12/7/2021 N Downgradient Background T	MW-8 1/11/2022 N Downgradient Background T	MW-8 2/17/2022 N Downgradient Background T	MW-8 8/2/2022 N Downgradient AM T	MW-8 2/8/2023 N Downgradient AM T	MW-8 8/2/2023 N Downgradient AM T	MW-8 1/30/2024 N Downgradient AM T	MW-8 8/8/2024 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.78	7	6.99	7.24	7.03	7.12	7.26	6.99	7.18	7.18	7.06	7.14	7.1
Specific Conductivity	mS/cm				0.62	0.64	0.62	0.721	0.656	0.653	0.637	0.638	0.665	0.634	0.744	0.617	0.661
Turbidity	NTU				2.24	7	7.18	6.53	5.25	2.95	5.43	2	4.31	6.17	2.75	5.15	2.15
Dissolved Oxygen	mg/L				2.29	1	1.66	0.04	7.83	1.76	2.24	1.64	0.88	2.92	0.01	5.24	0.47
Temperature	deg C				10.7	14	16.4	14.3	14	11.2	9.2	5.9	14.4	9.4	14.2	7.8	14.9
Oxidation Reduction Potential	mV				72.1	280.5	325.9	112.7	228.5	122	234.6	365.3	100.5	249.8	114.5	116	193.6
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005
Iron	mg/L	23.5	0.3	23.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.007	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	0.11	0.1	0.08	0.21	0.08	0.05	0.04	< 0.04	0.08	0.08	0.14	0.05	0.08
Calcium	mg/L	188		188	91.2	94.6	89.8	86.5	93	98.5	98.6	100	95.3	104	86.9	97.3	93.3
Chloride	mg/L	94.377	250	250	11	17	10	59	8	4.45	< 5	< 5	15	24	66	10.5	28.5
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.0587	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				7.78	7	6.99	7.24	7.03	7.12	7.26	6.99	7.18	7.18	7.06	7.14	7.1
Sulfate	mg/L	344	250	344	25	35	17	48	16	13.8	11	11	15	32	52	21.4	27.5
Total Dissolved Solids	mg/L	1168.639	500	1168.639	392	384	362	414	368	370	372	382	382	430	460	388	406
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002
Barium	mg/L	0.168	2	2	0.028	0.021	0.022	0.026	0.021	0.021	0.018	0.017	0.019	0.022	0.026	0.021	0.021
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.0587	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	< 0.01	< 0.005	< 0.005	0.013	0.009	0.006	< 0.005	< 0.005	0.005	0.007	0.009	< 0.005	0.005
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002 UJ	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	< 0.011	0.006	< 0.005	0.013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Radium-226	pCi/L				0.287	0.389	0.437	0.228	0.228 J	1.7	1.77	0.843	0.201	0.118	0.245	0.515	0.219
Radium-228	pCi/L				0.396 J+	-0.103	0.114	0.469	1.71	0.583	4.44	2	3.04 J+	-0.133	4.3	1.33	0.454
Radium-226/228	pCi/L	5	5	5	0.683 J+	0.389	0.551	0.697	1.93 J	2.28	6.21	2.84	3.24 J+	0.118	4.55	1.85	0.673
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				< 3	< 3	< 3	< 3	< 3	2 U	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Bicarbonate	mg/L				--	--	--	--	--	--	--	--	410	440	320	403	390
Carbonate	mg/L				--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				--	--	--	--	--	--	--	--	347	384	326	364	340
Magnesium	mg/L				--	--	--	--	--	--	--	--	28.9	31.8	25.3	28.8	26.8
Potassium	mg/L				--	--	--	--	--	--	--	--	0.57	0.53	0.76	< 0.5	0.52
Sodium	mg/L				--	--	--	--	--	--	--	--	12.7	14.2	40.9	13.9	23.9

Groundwater Sampling Results for MW-8

LBWL Erickson Station

Sample Location:					MW-8
Sample Date:					2/5/2025
Sample Type:					N
Gradient:					Downgradient
Sampling Phase:					AM
Fraction:					T
Constituent	Unit	BTv(1)	MCL	State GPS	
Field Parameters					
pH	su				7.17
Specific Conductivity	mS/cm				0.668
Turbidity	NTU				2.4
Dissolved Oxygen	mg/L				2.32
Temperature	deg C				8.9
Oxidation Reduction Potential	mV				136
Part 115					
Copper	mg/L	0.005	1.3	1	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	< 0.013 U
Nickel	mg/L	0.021		0.1	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.00093 U
Appendix III					
Boron	mg/L	0.48		0.5	0.094 J
Calcium	mg/L	188		188	87
Chloride	mg/L	94.377	250	250	38
Fluoride	mg/L	1	4	2	0.054
pH (Field Measure)	su				7.17
Sulfate	mg/L	344	250	344	25
Total Dissolved Solids	mg/L	1168.639	500	1168.639	360
Appendix IV					
Antimony	mg/L	0.005	0.006	0.006	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	< 0.00075 U
Barium	mg/L	0.168	2	2	0.023
Beryllium	mg/L	0.001	0.004	0.004	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.000086 U
Fluoride	mg/L	1	4	2	0.054
Lead	mg/L	0.003	0.015	0.004	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.01
Mercury	mg/L	0.0002	0.002	0.002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.0054
Radium-226	pCi/L				< 0.329 U
Radium-228	pCi/L				1.34
Radium-226/228	pCi/L	5	5	5	1.5
Selenium	mg/L	0.005	0.05	0.05	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.00051 U
Other					
Total Suspended Solids	mg/L				0.5 J
Bicarbonate	mg/L				300
Carbonate	mg/L				< 2.6 U
Hardness (as CaCO3)	mg/L				310
Magnesium	mg/L				24
Potassium	mg/L				--
Sodium	mg/L				--

Groundwater Sampling Results for MW-9

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-9 6/15/2021 N Downgradient Background T	MW-9 6/15/2021 FD Downgradient Background T	MW-9 7/20/2021 N Downgradient Background T	MW-9 7/20/2021 FD Downgradient Background T	MW-9 8/24/2021 N Downgradient Background T	MW-9 8/24/2021 FD Downgradient Background T	MW-9 9/28/2021 N Downgradient Background T	MW-9 9/28/2021 FD Downgradient Background T	MW-9 11/2/2021 N Downgradient Background T	MW-9 11/2/2021 FD Downgradient Background T	MW-9 12/7/2021 N Downgradient Background T	MW-9 12/7/2021 FD Downgradient Background T	MW-9 1/11/2022 N Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.74	7.74	7.2	7.2	7.21	7.21	7.28	7.28	7.14	7.14	7.27	7.27	7.35
Specific Conductivity	mS/cm				0.393	0.393	0.42	0.42	0.44	0.44	0.444	0.444	0.471	0.471	0.459	0.459	0.455
Turbidity	NTU				1.6	1.6	6.7	6.7	6.15	6.15	5.25	5.25	5.61	5.61	2.21	2.21	2.89
Dissolved Oxygen	mg/L				5.48	5.48	5.35	5.35	4.52	4.52	4.5	4.5	4.89	4.89	5.42	5.42	6.13
Temperature	deg C				12.9	12.9	17	17	19	19	17.1	17.1	13.8	13.8	9.5	9.5	7
Oxidation Reduction Potential	mV				164.1	164.1	310.7	310.7	329.2	329.2	171.8	171.8	238.1	238.1	135.9	135.9	260.1
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.009	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Calcium	mg/L	188		188	62.1	64.2	66.3	67.5	69.2	68.8	71	71.5	78	80.7	76.6	75.8	76.9
Chloride	mg/L	94.377	250	250	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	1.11	1.07	< 5
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.033	0.033	< 1
pH (Field Measure)	su				7.74	7.74	7.2	7.2	7.21	7.21	7.28	7.28	7.14	7.14	7.27	7.27	7.35
Sulfate	mg/L	344	250	344	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	3.58	3.52	< 5
Total Dissolved Solids	mg/L	1168.639	500	1168.639	232	240	242	232	242	256	246	244	252	268	244	246	264
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.168	2	2	0.015	0.015	0.013	0.014	0.015	0.014	0.014	0.015	0.015	0.016	0.014	0.015	0.013
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.033	0.033	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002 UJ	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Radium-226	pCi/L				0.625	0.646	0.189	0.166	0.266 J-	0.421 J+	0.797	0.368	0.177 J-	0.534 J+	1.67	1.69	0.838 J-
Radium-228	pCi/L				0.218 J+	0.171 J+	0.286 J+	-0.125 J-	-0.359 J-	1.65 J+	0.453	0.846	-0.0915 J	0.483 J+	0.666	0.826	1.53 J+
Radium-226/228	pCi/L	5	5	5	0.844 J+	0.817 J+	0.475 J+	0.166 J-	0.266 J-	2.07 J+	1.25	1.21	0.177 J	1.02 J+	2.34	2.51	2.37 J+
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Bicarbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Carbonate	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Hardness (as CaCO3)	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	mg/L				--	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Sampling Results for MW-9

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-9 1/11/2022 FD Downgradient Background T	MW-9 2/17/2022 N Downgradient Background T	MW-9 2/17/2022 FD Downgradient Background T	MW-9 8/2/2022 N Downgradient AM T	MW-9 2/8/2023 N Downgradient AM T	MW-9 8/2/2023 N Downgradient AM T	MW-9 1/30/2024 N Downgradient AM T	MW-9 8/8/2024 N Downgradient AM T	MW-9 2/5/2025 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS									
Field Parameters													
pH	su				7.35	7.16	7.16	7.44	7.45	7.13	7.28	7.06	7.42
Specific Conductivity	mS/cm				0.455	0.471	0.471	0.42	0.424	0.474	0.54	0.585	0.596
Turbidity	NTU				2.89	1.6	1.6	3.44	3.01	2.2	5.02	2.59	5.22
Dissolved Oxygen	mg/L				6.13	6.17	6.17	3.96	6.33	3.35	6.22	3.96	5.95
Temperature	deg C				7	4.7	4.7	19.2	7.3	16.5	5.3	17.9	6.7
Oxidation Reduction Potential	mV				260.1	380.9	380.9	99.2	252.1	132.5	108.1	215.3	131.4
Part 115													
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.013 U
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0012 J
Appendix III													
Boron	mg/L	0.48		0.5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	0.04	< 0.057 U
Calcium	mg/L	188		188	75	77.6	78	61.8	76.9	75.7	98.8	100	96
Chloride	mg/L	94.377	250	250	< 5	< 5	< 5	< 5	< 5	< 5	5.5	6.1	4.6
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.024 U
pH (Field Measure)	su				7.35	7.16	7.16	7.44	7.45	7.13	7.28	7.06	7.42
Sulfate	mg/L	344	250	344	< 5	< 5	< 5	5	< 5	6	11.9	12.6	16
Total Dissolved Solids	mg/L	1168.639	500	1168.639	266	280	276	242	274	282	348	360	340
Appendix IV													
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.00075 U
Barium	mg/L	0.168	2	2	0.013	0.013	0.013	0.013	0.014	0.016	0.017	0.02	0.017
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.000086 U
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.024 U
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0034 U
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0011 U
Radium-226	pCi/L				1.22 J+	0.533	0.657	0.0527	0.372	0.305	0	0.924	0.222
Radium-228	pCi/L				-0.724 J-	0.0438 J	0.283 J+	1.88 J+	1.6	-0.426	-0.442	0.555	1.21
Radium-226/228	pCi/L	5	5	5	1.22 J-	0.576 J	0.94 J+	1.94 J+	1.97	0.305	0	1.48	1.44
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other													
Total Suspended Solids	mg/L				< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	0.4 J
Bicarbonate	mg/L				--	--	--	260	336	310	378	380	330
Carbonate	mg/L				--	--	--	< 10	< 10	< 10	< 10	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				--	--	--	218	261	270	342	340	340
Magnesium	mg/L				--	--	--	15.2	19.4	19.5	23.3	23.4	25
Potassium	mg/L				--	--	--	1.09	0.93	1.28	0.93	1.47	--
Sodium	mg/L				--	--	--	2.41	2.86	3.84	4.11	3.67	--

Groundwater Sampling Results for MW-10

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-10 6/15/2021 N Downgradient Background T	MW-10 7/20/2021 N Downgradient Background T	MW-10 8/24/2021 N Downgradient Background T	MW-10 9/28/2021 N Downgradient Background T	MW-10 11/2/2021 N Downgradient Background T	MW-10 12/7/2021 N Downgradient Background T	MW-10 1/11/2022 N Downgradient Background T	MW-10 2/17/2022 N Downgradient Background T	MW-10 8/2/2022 N Downgradient AM T	MW-10 2/8/2023 N Downgradient AM T	MW-10 2/8/2023 FD Downgradient AM T	MW-10 8/2/2023 N Downgradient AM T	MW-10 8/2/2023 FD Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.3	6.6	6.7	6.89	6.57	6.69	6.68	6.49	6.85	6.73	6.73	6.52	6.52
Specific Conductivity	mS/cm				0.725	0.71	0.741	0.664	0.78	0.753	0.807	0.784	0.691	0.679	0.679	0.739	0.739
Turbidity	NTU				1.79	2.3	1.95	5.99	1.29	2.09	2.98	3.76	3.57	1.88	1.88	2.34	2.34
Dissolved Oxygen	mg/L				2.05	3.3	3.2	2.43	2.83	2.89	3.92	3.61	2.82	4.03	4.03	3.15	3.15
Temperature	deg C				12	14	15.5	15	14.2	11.6	9.7	8.6	15.4	9.5	9.5	14.4	14.4
Oxidation Reduction Potential	mV				121.2	240	330.1	164.1	230.9	147.9	283.3	391.8	98.9	238	238	163.5	163.5
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	< 0.005	0.009	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	0.05	0.05	0.06	0.05	0.07	0.05	0.06	0.05	0.05	0.04	0.05	0.05	0.06
Calcium	mg/L	188		188	132	128	129	113	137	128	141	142	117	136	140	131	129
Chloride	mg/L	94.377	250	250	< 5	< 5	< 5	< 5	< 5	1.03	< 5	< 5	< 5	< 5	< 5	6	6
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.066	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				7.3	6.6	6.7	6.89	6.57	6.69	6.68	6.49	6.85	6.73	6.73	6.52	6.52
Sulfate	mg/L	344	250	344	12	15	14	9	17	14.5	18	16	10	13	13	18	17
Total Dissolved Solids	mg/L	1168.639	500	1168.639	446	410	432	376	436	428	474	482	398	494	482	452	450
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.168	2	2	0.044	0.041	0.047	0.041	0.044	0.043	0.04	0.038	0.037	0.036	0.036	0.037	0.037
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.066	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mercury	mg/L	0.0002	0.002	0.002	0.0002	< 0.0002	< 0.0002	< 0.0002 UJ	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Radium-226	pCi/L				0.548	0.262	0.183	0.701	0.381 J	1.46	1.59	0.894	0.195	0.407	0.443	0.519 J-	0.84 J+
Radium-228	pCi/L				0.123 J+	-0.994	0.187	-0.076	0.225	0.929	0.142	-0.916	0.402 J+	-0.255 J-	0.758 J+	-0.799 J-	0.502 J+
Radium-226/228	pCi/L	5	5	5	0.671 J+	0.262	0.371	0.701	0.605 J	2.39	1.73	0.894	0.597 J+	0.407 J-	1.2 J+	0.519 J-	1.34 J+
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Bicarbonate	mg/L				--	--	--	--	--	--	--	--	440	525	522	450	450
Carbonate	mg/L				--	--	--	--	--	--	--	--	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				--	--	--	--	--	--	--	--	382	461	460	433	420
Magnesium	mg/L				--	--	--	--	--	--	--	--	23.6	29.5	29.2	25.8	25.6
Potassium	mg/L				--	--	--	--	--	--	--	--	0.73	0.62	0.7	0.68	0.68
Sodium	mg/L				--	--	--	--	--	--	--	--	2.24	2.54	2.73	4.55	4.64

Groundwater Sampling Results for MW-10

LBWL Erickson Station

Sample Location:					MW-10	MW-10	MW-10	MW-10
Sample Date:					1/30/2024	8/8/2024	8/8/2024	2/5/2025
Sample Type:					N	N	FD	N
Gradient:					Downgradient	Downgradient	Downgradient	Downgradient
Sampling Phase:					AM	AM	AM	AM
Fraction:					T	T	T	T
Constituent	Unit	BTv(1)	MCL	State GPS				
Field Parameters								
pH	su				6.81	6.85	6.85	6.87
Specific Conductivity	mS/cm				0.695	0.625	0.625	0.657
Turbidity	NTU				4.91	3.51	3.51	3.19
Dissolved Oxygen	mg/L				4.29	2.53	2.53	4.74
Temperature	deg C				8.4	15.8	15.8	9.8
Oxidation Reduction Potential	mV				100.1	272.9	272.9	143.6
Part 115								
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	< 0.02	< 0.02	< 0.02	< 0.013 U
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.00093 U
Appendix III								
Boron	mg/L	0.48		0.5	0.04	0.06	0.06	< 0.057 U
Calcium	mg/L	188		188	118	119	116	120
Chloride	mg/L	94.377	250	250	9.3	2.2	2.2	1.5
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	0.05
pH (Field Measure)	su				6.81	6.85	6.85	6.87
Sulfate	mg/L	344	250	344	27.8	10.6	10.6	14
Total Dissolved Solids	mg/L	1168.639	500	1168.639	452	384	392	360
Appendix IV								
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.002	< 0.002	< 0.002	< 0.00075 U
Barium	mg/L	0.168	2	2	0.041	0.033	0.035	0.03
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.000086 U
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	0.05
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	< 0.005	< 0.005	< 0.005	< 0.0034 U
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.0011 U
Radium-226	pCi/L				0.366	0.528	0.129	< 0.236 U
Radium-228	pCi/L				2.54	2.77 J+	2.21 J-	2.43
Radium-226/228	pCi/L	5	5	5	2.91	3.3 J+	2.34 J-	2.51
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	0.0015 J
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other								
Total Suspended Solids	mg/L				< 3	< 3	< 3	< 0.4 U
Bicarbonate	mg/L				449	420	430	370
Carbonate	mg/L				< 10	< 10	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				396	386	386	390
Magnesium	mg/L				27	22.8	22.5	24
Potassium	mg/L				< 0.5	1	0.99	--
Sodium	mg/L				19	2.72	2.67	--

Groundwater Sampling Results for MW-11

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-11 2/23/2022 N Upgradient Background T	MW-11 2/23/2022 FD Upgradient Background T	MW-11 3/30/2022 N Upgradient Background T	MW-11 3/30/2022 FD Upgradient Background T	MW-11 5/4/2022 N Upgradient Background T	MW-11 6/8/2022 N Upgradient Background T	MW-11 6/8/2022 FD Upgradient Background T	MW-11 7/13/2022 N Upgradient Background T	MW-11 7/13/2022 FD Upgradient Background T	MW-11 8/17/2022 N Upgradient Background T	MW-11 8/17/2022 FD Upgradient Background T	MW-11 9/21/2022 N Upgradient Background T	MW-11 9/21/2022 FD Upgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				6.84	6.84	6.64	6.64	6.78	6.76	6.76	6.73	6.73	6.88	6.88	6.91	6.91
Specific Conductivity	mS/cm				1.083	1.083	1.119	1.119	1.093	1.11	1.11	1.008	1.008	1.117	1.117	1.122	1.122
Turbidity	NTU				9.65	9.65	8.95	8.95	9.22	6.98	6.98	3.02	3.02	4.01	4.01	5.25	5.25
Dissolved Oxygen	mg/L				0.01	0.01	0.07	0.07	0.06	0.56	0.56	0.08	0.08	0.21	0.21	0.18	0.18
Temperature	deg C				9.5	9.5	9.8	9.8	12	11.3	11.3	12.8	12.8	14.4	14.4	15.7	15.7
Oxidation Reduction Potential	mV				-88.9	-88.9	-83.9	-83.9	-103.4	-109.6	-109.6	-97.3	-97.3	-129.8	-129.8	-122.9	-122.1
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	22.2	22	23.2	23	23.5	21.4	21.9	22	21.8 J	21.4	20.9	21.5	20.8
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	0.006
Appendix III																	
Boron	mg/L	0.48		0.5	0.22	0.22	0.2	0.22	0.21	0.22	0.22	0.21	0.2	0.21	0.2	0.22	0.22
Calcium	mg/L	188		188	136	130	138	140	144	139	138	134	135	140	138	141	142
Chloride	mg/L	94.377	250	250	67	67	67	67	63	63	63	61	62	63	64	61	62
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				6.84	6.84	6.64	6.64	6.78	6.76	6.76	6.73	6.73	6.88	6.88	6.91	6.91
Sulfate	mg/L	344	250	344	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total Dissolved Solids	mg/L	1168.639	500	1168.639	632	532	642	636	612	644	654	666	644	368	344	652	658
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	0.018	0.018	0.018	0.017	0.02	0.018	0.018	0.019	0.018	0.021	0.019	0.021	0.02
Barium	mg/L	0.168	2	2	0.147	0.146	0.144	0.145	0.146	0.142	0.144	0.143	0.147	0.15	0.146	0.167	0.165
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 UJ	0.005 J+
Radium-226	pCi/L				0.273 J-	0.472 J+	0.358 J-	0.603 J+	0.545	0.618 J	1.52 J	0.325 J+	0.942 J+	0.542 J-	0.971 J+	0.396	0.443
Radium-228	pCi/L				0 J-	0.248 J+	0.757 J+	-0.419 J	0.479 J	0.573 J	0.63 J	0.925	0.383	0.0495 J-	0.835 J+	0.0525 J-	0.994 J+
Radium-226/228	pCi/L	5	5	5	0.273 J-	0.72 J+	1.11 J+	0.603 J-	1.02	1.19 J	2.15 J	1.25 J+	1.33 J+	0.591 J-	1.81 J+	0.449 J-	1.44 J+
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				48	41	32	32	23	32	31	29	28	20	23	23	20
Bicarbonate	mg/L				--	--	--	--	610	595	593	600	610	620	630	600	620
Carbonate	mg/L				--	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				--	--	--	--	506	495	490	503	512	529	502	512	508
Magnesium	mg/L				--	--	39	37.8	40.8	39.4	39.1	38.8	38.3	39.8	39	40.8	39.6
Potassium	mg/L				--	--	1.47	1.45	1.38	1.3	1.32	1.31	1.3	1.38	1.34	1.55	1.52
Sodium	mg/L				--	--	40.4	39.6	39.7	37.5	38.8	38.9	37	38.7	37.8	39.7	38.5

Groundwater Sampling Results for MW-11

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-11 10/26/2022 N Upgradient Background T	MW-11 10/26/2022 FD Upgradient Background T	MW-11 2/9/2023 N Upgradient AM T	MW-11 2/9/2023 N Upgradient AM D	MW-11 8/3/2023 N Upgradient AM T	MW-11 1/31/2024 N Upgradient AM T	MW-11 1/31/2024 N Upgradient AM D	MW-11 8/5/2024 N Upgradient AM T	MW-11 2/4/2025 N Upgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS									
Field Parameters													
pH	su				6.77	6.77	7.43	--	6.74	6.77	--	6.79	6.77
Specific Conductivity	mS/cm				1.075	1.075	1.082	--	1.095	1.084	--	1.052	1.032
Turbidity	NTU				5.78	5.78	25.29	--	0.98	7.22	--	0.02	6.15
Dissolved Oxygen	mg/L				0.37	0.37	0.33	--	0.06	0	--	0.14	0.02
Temperature	deg C				12.2	12.2	10.9	--	13.8	11.1	--	15.2	10.9
Oxidation Reduction Potential	mV				-99.1	-99.1	-191.1	--	-97.1	-177.2	--	-86.5	-100.1
Part 115													
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	19.8	20.6	15.5	0.44	24.3	25.1	0.03	23.1	20
Nickel	mg/L	0.021		0.1	0.007 J+	< 0.005 UJ	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0025 J
Zinc	mg/L	0.036	5	5	0.018 J+	0.006 J-	< 0.005	< 0.005	0.007	< 0.005	< 0.005	< 0.005	< 0.00093 U
Appendix III													
Boron	mg/L	0.48		0.5	0.21	0.21	0.21	0.2	0.2	0.19	0.19	0.19	0.21
Calcium	mg/L	188		188	138	139	140	132	140	138	129	145	130
Chloride	mg/L	94.377	250	250	62	62	59	--	62	68	--	62	56
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	--	< 1	< 1	--	< 1	0.17
pH (Field Measure)	su				6.77	6.77	7.43	--	6.74	6.77	--	6.79	6.77
Sulfate	mg/L	344	250	344	< 5	< 5	< 5	--	< 5	< 5	--	< 5	< 0.35 U
Total Dissolved Solids	mg/L	1168.639	500	1168.639	664	664	668	--	682	660	--	678	580
Appendix IV													
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.02	0.02	0.017	0.004	0.017	0.019	0.003	0.019	0.017
Barium	mg/L	0.168	2	2	0.158	0.154	0.151	0.105	0.17	0.181	0.116	0.174	0.18
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00044 J
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	--	< 1	< 1	--	< 1	0.17
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0034 U
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	0.0038 J
Radium-226	pCi/L				0.981	0.59	0.194	--	1.58	0.528	--	1.61	< 0.441 U
Radium-228	pCi/L				1.53	1.18	0.824	--	1.58	0.161	--	0.702	< 0.654 U
Radium-226/228	pCi/L	5	5	5	2.51	1.77	1.02	--	3.16	0.689	--	2.31	0.792
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other													
Total Suspended Solids	mg/L				29	32	35	--	19.8	40.6	--	46	44
Bicarbonate	mg/L				601	604	645	--	630	680	--	620	460
Carbonate	mg/L				< 10	< 10	< 10	--	< 10	< 50	--	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				512	518	509	--	538	524	--	518	480
Magnesium	mg/L				39.4	39.3	40.5	37.5	41.2	37.4	37.9	41.3	37
Potassium	mg/L				1.47	1.45	11.4	10.9	3.01	2.61	2.35	1.7	--
Sodium	mg/L				39.1	38.3	37.5	36.1	37.4	35.4	33.8	35.1	--

Groundwater Sampling Results for MW-11B

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-11B 4/28/2022 N Upgradient Background T	MW-11B 4/28/2022 FD Upgradient Background T	MW-11B 6/2/2022 N Upgradient Background T	MW-11B 6/2/2022 FD Upgradient Background T	MW-11B 7/7/2022 N Upgradient Background T	MW-11B 7/7/2022 FD Upgradient Background T	MW-11B 8/11/2022 N Upgradient Background T	MW-11B 8/11/2022 FD Upgradient Background T	MW-11B 9/15/2022 N Upgradient Background T	MW-11B 9/15/2022 FD Upgradient Background T	MW-11B 10/20/2022 N Upgradient Background T	MW-11B 10/20/2022 FD Upgradient Background T	MW-11B 11/22/2022 N Upgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.95	7.95	7.28	7.28	7.15	7.15	7.37	7.37	7.33	7.33	7.29	7.29	7.1
Specific Conductivity	mS/cm				0.538	0.538	0.544	0.544	0.537	0.537	0.527	0.527	0.535	0.535	0.535	0.535	0.532
Turbidity	NTU				1.12	1.12	8.03	8.03	8.02	8.02	6.15	6.15	4.14	4.14	5.15	5.15	6.15
Dissolved Oxygen	mg/L				11.68	11.68	0.35	0.35	0.22	0.22	0.24	0.24	0.07	0.07	0.03	0.03	0.12
Temperature	deg C				12.3	12.3	13.7	13.7	14.6	14.6	13.4	13.4	13.2	13.2	11.4	11.4	11.8
Oxidation Reduction Potential	mV				228	228	-74.2	-74.2	-110.4	-110.4	-158.4	-158.4	-189.3	-189.4	-138.1	-138.1	-92.6
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	3.04	0.3	3.04	0.1	0.11	0.96	0.98	2.59	2.66	3.04	3	2.48	2.44	1.82	1.83	1.32
Nickel	mg/L	0.011		0.1	< 0.005	< 0.005	< 0.005	< 0.005	0.011 J+	< 0.005 UJ	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	< 0.005	0.042 J+	< 0.005 UJ	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	3.52		3.52	0.62	0.63	0.65	0.66	0.69	0.71	0.77	0.75	0.73	0.72	0.72	0.71	0.73
Calcium	mg/L	69.6		69.6	64.6	63.9	63.8	65	66.1	66.1	66.6	65.6	64	64.7	60.3	59.9	66.3
Chloride	mg/L	5	250	250	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	1.7 U
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				7.95	7.95	7.28	7.28	7.15	7.15	7.37	7.37	7.33	7.33	7.29	7.29	7.1
Sulfate	mg/L	5	250	250	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	2.58 U
Total Dissolved Solids	mg/L	380	500	500	304	294	300	308	296	306	308	288	300	300	304	314	294
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.009	0.01	0.01	0.003	0.003	0.004	0.004	0.007	0.008	0.009	0.009	0.009	0.009	0.008	0.008	0.007
Barium	mg/L	0.081	2	2	0.081	0.08	0.07	0.072	0.07	0.071	0.068	0.069	0.068	0.069	0.066	0.066	0.059
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.051	0.04	0.051	0.032	0.032	0.024	0.024	0.024	0.025	0.025	0.024	0.026	0.028	0.026	0.025	0.029
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.011	0.1	0.1	< 0.005	< 0.005	0.005	0.005	0.007	0.007	0.007	0.006	0.006	0.006	< 0.005	< 0.005	< 0.005
Radium-226	pCi/L				1.01	1.44	1.72	1.79	0.638 J+	0.0501 J-	0.702	1.06	0.518	0.509	0.633	0.527	0.919
Radium-228	pCi/L				1.68	2.14	0.633	1.68	0.753 J+	0.445 J-	-1.33 J-	1.32 J+	0.773 J+	0.0951 J	1.33 J	2.6 J+	2.4 J+
Radium-226/228	pCi/L	5.5	5	5.5	2.69	3.59	2.35	3.47	1.39 J+	0.495 J-	0.702 J-	2.38 J+	1.29 J+	0.604 J	1.96 J	3.13 J+	3.32 J+
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				1.7 U	2.7 U	< 3	< 3	3	4	< 3 UJ	4 J+	5	5	4	3	< 3
Bicarbonate	mg/L				350	350	350	350	350	360	370	370	350	360	360	360	360
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				265	265	260	260	260	260	261	258	261	258	261	260	260
Magnesium	mg/L				24.3	24.8	23.3	23.1	24.6	24.3	24.3	24.2	23.4	23.7	21.3	21.2	23.9
Potassium	mg/L				6.07	6.12	6.08	6.07	6.28	6.24	6.4	6.31	5.98	6.24	5.81	5.82	6.28
Sodium	mg/L				13.5	13.7	17.6	17.2	17.9	17.9	17.7	17.3	16	16.2	14.5	14.3	15.8

Groundwater Sampling Results for MW-11B

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-11B 11/22/2022 FD Upgradient Background T	MW-11B 12/27/2022 N Upgradient Background T	MW-11B 12/27/2022 FD Upgradient Background T	MW-11B 2/9/2023 N Upgradient AM T	MW-11B 2/9/2023 FD Upgradient AM T	MW-11B 8/3/2023 N Upgradient AM T	MW-11B 1/31/2024 N Upgradient AM T	MW-11B 1/31/2024 FD Upgradient AM T	MW-11B 8/5/2024 N Upgradient AM T	MW-11B 8/5/2024 FD Upgradient AM T	MW-11B 2/4/2025 N Upgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS											
Field Parameters															
pH	su				7.1	7.16	7.16	7.35	7.35	7.18	7.26	7.26	7.32	7.32	7.31
Specific Conductivity	mS/cm				0.532	0.515	0.515	0.522	0.522	0.527	0.53	0.53	0.502	0.502	0.516
Turbidity	NTU				6.15	8.45	8.45	7.12	7.12	0.45	2.02	2.02	0.25	0.25	6.81
Dissolved Oxygen	mg/L				0.12	0.09	0.09	0.23	0.23	0.2	0.04	0.04	0.28	0.28	0.11
Temperature	deg C				11.8	11.4	11.4	11.9	11.9	17	10.8	10.8	18.4	18.4	10.5
Oxidation Reduction Potential	mV				-92.6	-94.7	-94.7	-133.1	-133.1	-95.6	-181.1	-181.1	-85.4	-85.4	-85.1
Part 115															
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	1.3	2.3	2.25	1.23	1.24	1.1	0.84	0.83	0.76	0.79	0.7
Nickel	mg/L	0.011		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	0.012 J+	< 0.005 UJ	< 0.005	< 0.005	< 0.005	< 0.005	0.005	0.0012 JB
Appendix III															
Boron	mg/L	3.52		3.52	0.73	0.83	0.83	0.8	0.82	0.85	0.76	0.79	0.69	0.65	0.69
Calcium	mg/L	69.6		69.6	66.2	69.6	67	65.7	66	65.6	62.7	62.9	68.9	66.1	64
Chloride	mg/L	5	250	250	1.7 U	< 5	< 5	< 5	< 5	< 5	2.1	2.1	1.5	1.5	0.84 J
Fluoride	mg/L	1	4	2	0.16	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.2	0.2	0.38
pH (Field Measure)	su				7.1	7.16	7.16	7.35	7.35	7.18	7.26	7.26	7.32	7.32	7.31
Sulfate	mg/L	5	250	250	2.78 U	< 5	< 5	< 5	< 5	< 5	4	4	3.6	3.8	5.5
Total Dissolved Solids	mg/L	380	500	500	268	294	268	292	294	298	296	304	304	314	270
Appendix IV															
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.009	0.01	0.01	0.007	0.008	0.007	0.006	0.006	0.006	0.005	0.005	0.004	0.004	0.0037 J
Barium	mg/L	0.081	2	2	0.06	0.062	0.062	0.063	0.065	0.064	0.069	0.068	0.066	0.067	0.068
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.000086 U
Fluoride	mg/L	1	4	2	0.16	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.2	0.2	0.38
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.027	0.029	0.028	0.031	0.031	0.032	0.03	0.033	0.034	0.033	0.032
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0027 J
Radium-226	pCi/L				1.07	0.926	0.773	1.46	1.39	1.43	1.32 J+	0.366 J-	1.93 J+	1.16 J-	0.415
Radium-228	pCi/L				0.745 J-	2.63 J+	0.56 J	0.131	0.583	3.26	0.581 J-	0.791 J+	-0.308 J-	1.84 J+	< 0.695 U
Radium-226/228	pCi/L	5.5	5	5.5	1.81 J-	3.56 J+	1.33 J	1.59	1.97	4.7	1.9 J+	1.16 J-	1.93 J-	3 J+	< 0.695 U
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other															
Total Suspended Solids	mg/L				< 3	54 J+	32 J-	< 3	< 3	2.4	1.4	1.3	1.3 J-	1.8 J+	1.4 J
Bicarbonate	mg/L				360	371	372	378	377	370	356	381	350	360	290
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				260	265	268	264	262	258	268	269	258	268	260
Magnesium	mg/L				24.1	24.4	24.5	24.4	24.7	23.9	22.1	22.2	23.7	23.7	24
Potassium	mg/L				6.41	6.93	6.61	6.43	6.46	6.37	6.38	6.49	6.57	6.25	--
Sodium	mg/L				15.9	16.2	16	16.1	16.4	16.5	14.7	14.5	15.1	14.9	--

Groundwater Sampling Results for MW-12

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-12 2/23/2022 N Upgradient Background T	MW-12 2/23/2022 N Upgradient Background D	MW-12 3/30/2022 N Upgradient Background T	MW-12 3/30/2022 N Upgradient Background D	MW-12 5/4/2022 N Upgradient Background T	MW-12 5/4/2022 N Upgradient Background D	MW-12 6/8/2022 N Upgradient Background T	MW-12 6/8/2022 N Upgradient Background D	MW-12 7/13/2022 N Upgradient Background T	MW-12 7/13/2022 N Upgradient Background D	MW-12 8/17/2022 N Upgradient Background T	MW-12 8/17/2022 N Upgradient Background D	MW-12 9/21/2022 N Upgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.22	7.22	6.81	6.81	7.26	7.26	7.24	7.24	7.02	7.02	7.24	7.24	7.38
Specific Conductivity	mS/cm				0.746	0.746	1.648	1.648	1.734	1.734	1.797	1.797	1.686	1.686	1.586	1.586	1.6
Turbidity	NTU				65.25	65.25	44.12	44.12	16.45	16.45	31.26	31.26	30.26	30.26	45.15	45.15	46.25
Dissolved Oxygen	mg/L				5.45	5.45	3.95	3.95	3.34	3.34	5.25	5.25	3.2	3.2	4.64	4.64	1.95
Temperature	deg C				8.4	8.4	8.5	8.5	12	12	15.4	15.4	16.8	16.8	16.9	16.9	15.9
Oxidation Reduction Potential	mV				-113.5	-113.5	188.2	188.2	-35	-35	140.2	140.2	14.2	14.2	-17.9	-17.9	15.2
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	3.83	< 0.02	2.24	< 0.02	2.05	0.03	1	< 0.02	1.82	0.05	1.37	0.03	1.25
Nickel	mg/L	0.021		0.1	0.021	0.02	0.02	0.018	0.018	0.018	0.018	0.015	0.017	0.017	0.018	0.016	0.018
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	0.008	0.009	0.006	0.005	< 0.005	< 0.005	< 0.005	0.007	< 0.005	0.006	< 0.005	0.008
Appendix III																	
Boron	mg/L	0.48		0.5	0.05	0.05	0.09	0.09	0.08	0.08	0.1	0.1	0.07	0.07	0.07	0.07	0.08
Calcium	mg/L	188		188	185	188	157	147	149	143	149	144	147	143	157	148	154
Chloride	mg/L	94.377	250	250	90	--	94	--	90	--	82	--	83	--	83	--	80
Fluoride	mg/L	1	4	2	< 1	--	< 1	--	< 1	--	< 1	--	< 1	--	< 1	--	< 1
pH (Field Measure)	su				7.22	7.22	6.81	6.81	7.26	7.26	7.24	7.24	7.02	7.02	7.24	7.24	7.38
Sulfate	mg/L	344	250	344	344	--	308	--	283	--	254	--	250	--	256	--	255
Total Dissolved Solids	mg/L	1168.639	500	1168.639	1090	--	1110	--	1140	--	1080	--	1090	--	1050	--	1020
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	0.003	< 0.002	0.004	0.002	< 0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002
Barium	mg/L	0.168	2	2	0.069	0.059	0.074	0.068	0.07	0.064	0.064	0.064	0.067	0.06	0.064	0.06	0.064
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	--	< 1	--	< 1	--	< 1	--	< 1	--	< 1	--	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.02	0.018	0.021	0.018	0.023	0.021	0.025	0.022	0.022	0.019	0.019	0.018	0.022
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	0.013	0.011	0.024	0.024	0.023	0.024	0.019	0.018	0.017	0.017	0.014	0.014	0.015
Radium-226	pCi/L				0.252	--	0.783	--	1.23	--	1.9	--	0.394	--	0.398	--	0.739
Radium-228	pCi/L				0.948	--	2.33	--	0.237	--	0.721	--	1.23	--	1.8	--	-0.692
Radium-226/228	pCi/L	5	5	5	1.2	--	3.11	--	1.46	--	2.62	--	1.63	--	2.2	--	0.739
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				24	--	39	--	22	--	17	--	50	--	23	--	43
Bicarbonate	mg/L				--	--	--	--	650	--	695	--	670	--	620	--	610
Carbonate	mg/L				--	--	--	--	< 10	--	< 10	--	< 10	--	< 10	--	< 10
Hardness (as CaCO3)	mg/L				--	--	--	--	572	--	565	--	566	--	609	--	611
Magnesium	mg/L				--	--	58.8	56.4	56.4	52.8	56.2	54.5	56.2	55.7	58.8	57.6	58.6
Potassium	mg/L				--	--	3.93	3.87	3.73	3.55	3.91	3.95	3.3	3.13	3.33	3.1	3.65
Sodium	mg/L				--	--	168	169	193	189	199	195	171	167	145	138	145

Groundwater Sampling Results for MW-12

LBWL Erickson Station

Sample Location:					MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
Sample Date:					9/21/2022	10/26/2022	10/26/2022	2/9/2023	2/9/2023	8/3/2023	8/3/2023	1/31/2024	1/31/2024	8/6/2024	8/6/2024	2/4/2025	2/4/2025
Sample Type:					N	N	N	N	N	N	N	N	N	N	N	N	N
Gradient:					Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Upgradient	Upgradient
Sampling Phase:					Background	Background	Background	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM
Fraction:					D	T	D	T	D	T	D	T	D	T	D	T	D
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.38	7.05	7.05	7.13	7.13	7.1	7.1	6.92	6.92	7.06	7.06	7	--
Specific Conductivity	mS/cm				1.6	1.387	1.387	1.391	1.391	1.457	1.457	1.392	1.392	1.393	1.393	1.38	--
Turbidity	NTU				46.25	26.2	26.2	17.01	17.01	10.32	10.32	16.45	16.45	35.44	35.44	24.13	--
Dissolved Oxygen	mg/L				1.96	3.57	3.57	2.95	2.95	3.41	3.41	2.15	2.15	4.52	4.52	3.55	--
Temperature	deg C				15.9	11.8	11.8	11.5	11.5	16	16	8.5	8.5	15.3	15.3	10	--
Oxidation Reduction Potential	mV				15.2	155.8	155.8	-27.4	-27.4	122.7	122.7	-32.4	-32.4	110.7	110.7	185.5	--
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	< 0.02	0.96	0.19	0.6	< 0.02	0.74	< 0.02	1.19	< 0.02	1.18	0.22	1.2	0.92
Nickel	mg/L	0.021		0.1	0.017	0.018	0.015	0.017	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.01	0.009
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.036	5	5	0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0025 JB	0.0024 JB
Appendix III																	
Boron	mg/L	0.48		0.5	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.07	0.06	0.07	0.07	0.092 J	0.073 J
Calcium	mg/L	188		188	148	156	136	143	141	156	151	158	152	166	158	150	130
Chloride	mg/L	94.377	250	250	--	78	--	71	--	70	--	69.2	--	63.7	--	53	--
Fluoride	mg/L	1	4	2	--	< 1	--	< 1	--	< 1	--	< 1	--	< 1	--	0.13	--
pH (Field Measure)	su				7.38	7.05	7.05	7.13	7.13	7.1	7.1	6.92	6.92	7.06	7.06	7	--
Sulfate	mg/L	344	250	344	--	252	--	207	--	184	--	177	--	187	--	160	--
Total Dissolved Solids	mg/L	1168.639	500	1168.639	--	1020	--	948	--	928	--	916	--	946	--	870	--
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	0.002	0.002	< 0.002	< 0.002	0.002	< 0.002	0.003	< 0.002	0.002	< 0.002	0.0014 J	0.001 J
Barium	mg/L	0.168	2	2	0.058	0.057	0.052	0.058	0.054	0.052	0.049	0.052	0.049	0.049	0.044	0.05	0.044
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.005	< 0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.002	0.0015
Fluoride	mg/L	1	4	2	--	< 1	--	< 1	--	< 1	--	< 1	--	< 1	--	0.13	--
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.019	0.021	0.018	0.023	0.023	0.02	0.02	0.019	0.016	0.018	0.016	0.018	0.015
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.014	0.013	0.012	0.011	0.011	0.007	0.007	0.006	0.006	0.005	0.005	0.005	0.0044 J
Radium-226	pCi/L				--	0.628	--	0.836	--	0.663	--	0.475	--	0.591	--	< 0.247 U	--
Radium-228	pCi/L				--	2.11	--	2.6	--	0.731	--	0.866	--	0.644	--	1.33	--
Radium-226/228	pCi/L	5	5	5	--	2.74	--	3.43	--	1.39	--	1.34	--	1.24	--	1.51	--
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U
Other																	
Total Suspended Solids	mg/L				--	16	--	9	--	8.4	--	12	--	15.7	--	15	--
Bicarbonate	mg/L				--	631	--	689	--	700	--	703	--	710	--	560	--
Carbonate	mg/L				--	< 10	--	< 10	--	< 10	--	< 10	--	< 10	--	< 2.6 U	--
Hardness (as CaCO3)	mg/L				--	618	--	575	--	628	--	658	--	678	--	620	--
Magnesium	mg/L				57.5	59.9	53	56.8	55.6	64.2	60	60.1	56.4	64.6	62.4	59	53
Potassium	mg/L				3.54	3.71	3.04	3.01	3.02	2.74	2.65	2.67	2.52	2.44	2.37	--	--
Sodium	mg/L				138	139	123	136	130	109	101	94.4	88.9	101	99.2	--	--

Groundwater Sampling Results for MW-12B

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-12B 3/8/2022 N Upgradient Background T	MW-12B 3/8/2022 FD Upgradient Background T	MW-12B 4/14/2022 N Upgradient Background T	MW-12B 5/19/2022 N Upgradient Background T	MW-12B 5/19/2022 FD Upgradient Background T	MW-12B 6/23/2022 N Upgradient Background T	MW-12B 6/23/2022 FD Upgradient Background T	MW-12B 7/28/2022 N Upgradient Background T	MW-12B 7/28/2022 FD Upgradient Background T	MW-12B 9/1/2022 N Upgradient Background T	MW-12B 9/1/2022 FD Upgradient Background T	MW-12B 10/6/2022 N Upgradient Background T	MW-12B 10/6/2022 FD Upgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				8	8	7.68	7.86	7.86	7.51	7.51	7.5	7.5	7.6	7.6	7.5	7.5
Specific Conductivity	mS/cm				0.72	0.72	0.611	0.61	0.61	0.601	0.601	0.602	0.602	0.6	0.6	0.593	0.593
Turbidity	NTU				10.2	10.2	9.89	9.72	9.72	6.89	6.89	8.35	8.35	6.7	6.7	7.15	7.15
Dissolved Oxygen	mg/L				3.58	3.58	0.31	0.05	0.05	0.2	0.2	0.22	0.22	0.74	0.74	0.24	0.24
Temperature	deg C				10.8	10.8	10.1	12	12	12.8	12.8	14	14	13	13	12.7	12.7
Oxidation Reduction Potential	mV				100.9	100.9	-80.1	-97.8	-97.8	-73.2	-73.2	-141	-141	-124.1	-124.1	-117.2	-117.2
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 UJ	0.007 J+	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	3.04	0.3	3.04	0.34	0.36	0.24	0.33	0.33	0.3 J	0.28 J	0.29	0.3	0.37	0.37	0.41	0.34
Nickel	mg/L	0.011		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 UJ	0.015 J+	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	3.52		3.52	3.25 J	3.2	3.16	3.34	3.3	3.32	3.38	3.37	3.37	3.52	3.35	3.22	3.3
Calcium	mg/L	69.6		69.6	23.7	24	24	21.5	21.7	26.1	25.5	25.7	25.4	26.2	26.2	26.2	25.9
Chloride	mg/L	5	250	250	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				8	8	7.68	7.86	7.86	7.51	7.51	7.5	7.5	7.6	7.6	7.5	7.5
Sulfate	mg/L	5	250	250	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total Dissolved Solids	mg/L	380	500	500	380	374	376	370	372	364	372	380	374	360	370	362	374
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.009	0.01	0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.081	2	2	0.025	0.025	0.026	0.027	0.026	0.026	0.025	0.023	0.024	0.028	0.028	0.027	0.026
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.051	0.04	0.051	0.042	0.043	0.036	0.038	0.038	0.041	0.039	0.041	0.043	0.041	0.038	0.039	0.042
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.011	0.1	0.1	< 0.005	< 0.005	< 0.005	0.011 J+	0.005 J-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Radium-226	pCi/L				0.48 J+	0.302 J-	0.264	0.611	0.657	1 J-	1.89 J+	0.581 J-	2.17 J+	0.398	0.519	0.37 J-	0.615 J+
Radium-228	pCi/L				0.275 J-	1.03 J+	0.116	0.421 J-	1.1 J+	0.209 J-	1.47 J+	-0.356 J+	-1.12 J	-0.204 J-	1.34 J+	1.26 J+	0.165 J-
Radium-226/228	pCi/L	5.5	5	5.5	0.755 J-	1.33 J+	0.38	1.03 J-	1.76 J+	1.21 J-	3.37 J+	0.581 J	2.17 J+	0.398 J-	1.86 J+	1.63 J+	0.779 J-
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				28	31	3 U	7	7	5	< 3	< 3	< 3	< 3 UJ	3 J+	1 U	< 3
Bicarbonate	mg/L				390	400	410	410	420	400	390	410	420	400	400	400	400
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				96	83	99	93	96	94	97	90	90	91	95	100	90
Magnesium	mg/L				7.5	7.36	8.12	6.63	6.68	8.31	8.14	8.22	8.02	8.33	8.65	8.39	8.33
Potassium	mg/L				8.99	8.61	8.26	6.93	7.07	8.27	8.15	8.28	8.07	8.18	8.36	8.32	8.14
Sodium	mg/L				116	117	109	90.9	92.4	111	107	107	107	113	115	112	109

Groundwater Sampling Results for MW-12B

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-12B 11/10/2022 N Upgradient Background T	MW-12B 11/10/2022 FD Upgradient Background T	MW-12B 2/9/2023 N Upgradient AM T	MW-12B 8/3/2023 N Upgradient AM T	MW-12B 8/3/2023 FD Upgradient AM T	MW-12B 1/31/2024 N Upgradient AM T	MW-12B 8/6/2024 N Upgradient AM T	MW-12B 2/4/2025 N Upgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS								
Field Parameters												
pH	su				7.61	7.61	7.71	7.52	7.52	7.59	7.67	7.71
Specific Conductivity	mS/cm				0.591	0.591	0.587	0.582	0.582	0.59	0.587	0.581
Turbidity	NTU				6.35	6.35	8.18	2.25	2.25	1.99	0.71	6.15
Dissolved Oxygen	mg/L				0.18	0.18	0.29	0.13	0.13	0.04	0.4	0.18
Temperature	deg C				13.1	13.1	10.9	15.1	15.1	9.8	14.5	9.4
Oxidation Reduction Potential	mV				-100.3	-100.3	-107.5	-113.5	-113.5	-193.1	-86.7	-104.8
Part 115												
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	0.31	0.3	0.22	0.26	0.25	0.2	0.3	0.2
Nickel	mg/L	0.011		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00093 U
Appendix III												
Boron	mg/L	3.52		3.52	3.35	3.19	3.33	3.33	3.38	3.29	3.22	3.3
Calcium	mg/L	69.6		69.6	25.7	26.2	26.3	25.8	25.9	26.3	25.2	26
Chloride	mg/L	5	250	250	< 5	< 5	< 5	< 5	< 5	2	1.5	0.92 J
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.4	0.5	0.63
pH (Field Measure)	su				7.61	7.61	7.71	7.52	7.52	7.59	7.67	7.71
Sulfate	mg/L	5	250	250	< 5	< 5	< 5	< 5	< 5	0.8	< 5	2.4
Total Dissolved Solids	mg/L	380	500	500	358	356	356	364	362	366	370	330
Appendix IV												
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.009	0.01	0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00075 U
Barium	mg/L	0.081	2	2	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.000086 U
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.4	0.5	0.63
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.04	0.037	0.043	0.04	0.041	0.041	0.039	0.04
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0011 U
Radium-226	pCi/L				0.608	0.619	0.831	1.13 J-	0.88 J+	0.458	0.811	0.47
Radium-228	pCi/L				0.638	0.282	3.31	0.848 J-	2.68 J+	0.845	1.83	1.31
Radium-226/228	pCi/L	5.5	5	5.5	1.25	0.901	4.14	1.98 J-	3.56 J+	1.3	2.64	1.78
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other												
Total Suspended Solids	mg/L				< 3	< 3	< 3	1.1	1.2	< 3	1.7	0.4 J
Bicarbonate	mg/L				390	390	417	360	390	424	400	330
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				96	96	98	92	110	653	107	98
Magnesium	mg/L				8.2	8.15	8.61	8.48	8.52	8.01	8.16	8.1
Potassium	mg/L				8.19	8.15	7.88	8.19	8.15	8.19	8.16	--
Sodium	mg/L				109	110	112	117	114	106	108.971	--

Groundwater Sampling Results for MW-13

LBWL Erickson Station

Sample Location:					MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13
Sample Date:					2/23/2022	3/30/2022	5/4/2022	5/4/2022	6/8/2022	7/13/2022	8/17/2022	9/21/2022	10/26/2022	2/8/2023	8/2/2023	1/30/2024	8/7/2024
Sample Type:					N	N	N	FD	N	N	N	N	N	N	N	N	N
Gradient:					Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient
Sampling Phase:					Background	Background	Background	Background	Background	Background	Background	Background	Background	AM	AM	AM	AM
Fraction:					T	T	T	T	T	T	T	T	T	T	T	T	T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				6.91	6.75	7.01	7.01	7.07	7.06	7.22	7.25	7.11	7.04	6.39	6.98	6.76
Specific Conductivity	mS/cm				0.782	0.733	0.549	0.549	0.585	0.661	0.595	0.635	0.624	0.672	0.777	0.887	0.91
Turbidity	NTU				7.11	7.9	4.15	4.15	6.5	1.79	3.55	4.24	3.75	6.01	0.3	5.73	6.55
Dissolved Oxygen	mg/L				1.31	2.61	6.23	6.23	5.42	6.21	4.94	3.83	2.39	0.65	4.69	0.13	0.4
Temperature	deg C				5.8	6.9	8.5	8.5	12.2	14.5	17.5	17.4	13.8	8.4	16.1	6.3	16.5
Oxidation Reduction Potential	mV				163	151.8	96.4	96.4	101.6	66.9	89.1	84.8	216.8	61.2	-48.6	-159.2	-64.5
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	0.04	0.02	< 0.02	0.02	0.08	0.03	0.02	0.03	0.04	0.06	0.16	1.03	0.94
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	0.16	0.14	0.14	0.14	0.18	0.18	0.17	0.2	0.22	0.18	0.17	0.15	0.17
Calcium	mg/L	188		188	138	128	95.8	97.6	96.1	107	94.1	100	101	132	124	157	158
Chloride	mg/L	94.377	250	250	< 5	< 5	9	9	13	16	16	20	32	43	45	25.3	20.7
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				6.91	6.75	7.01	7.01	7.07	7.06	7.22	7.25	7.11	7.04	6.39	6.98	6.76
Sulfate	mg/L	344	250	344	32	45	16	16	17	55	33	30	22	37	87	122	174
Total Dissolved Solids	mg/L	1168.639	500	1168.639	478	430	336	342	354	396	380	384	386	476	492	638	642
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.004	0.008	0.007
Barium	mg/L	0.168	2	2	0.03	0.026	0.02	0.019	0.023	0.027	0.029	0.027	0.028	0.028	0.034	0.038	0.044
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Radium-226	pCi/L				0.3	0.755	0.322 J+	0.149 J-	0.657	0.291 J+	0.402	0.286	0.392	0	0.0699	0.937	0.607
Radium-228	pCi/L				-0.842	1.32	0.0544 J	0.893 J+	1.66	1.35	0.0071	-0.0026	0.291	0.188	-0.6698	1.05	1.38
Radium-226/228	pCi/L	5	5	5	0.3	2.08	0.376 J-	1.04 J+	2.31	1.64 J+	0.41	0.286	0.683	0.188	0.0699	1.99	1.99
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	1.4
Bicarbonate	mg/L				--	--	340	330	349	330	320	340	351	437	330	496	390
Carbonate	mg/L				--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				--	--	309	308	310	353	312	333	358	444	428	550	524
Magnesium	mg/L				--	26.3	19.7	20.1	20.7	23.1	20.6	21.9	23	29	26.9	35.9	32.4
Potassium	mg/L				--	0.75	0.69	0.7	0.83	0.779	0.78	0.82	0.81	0.76	0.94	1	0.76
Sodium	mg/L				--	3.05	2.45	2.51	2.59	5.59	4.6	5.7	4.99	4.68	8.34	13.2	13.4

Groundwater Sampling Results for MW-13

LBWL Erickson Station

Sample Location:					MW-13
Sample Date:					2/6/2025
Sample Type:					N
Gradient:					Downgradient
Sampling Phase:					AM
Fraction:					T
Constituent	Unit	BTV(1)	MCL	State GPS	
Field Parameters					
pH	su				7.06
Specific Conductivity	mS/cm				0.936
Turbidity	NTU				3.11
Dissolved Oxygen	mg/L				0.26
Temperature	deg C				8.7
Oxidation Reduction Potential	mV				-49
Part 115					
Copper	mg/L	0.005	1.3	1	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	1.2
Nickel	mg/L	0.021		0.1	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.00082 U
Zinc	mg/L	0.036	5	5	0.0033 J
Appendix III					
Boron	mg/L	0.48		0.5	0.18
Calcium	mg/L	188		188	140
Chloride	mg/L	94.377	250	250	11
Fluoride	mg/L	1	4	2	0.14
pH (Field Measure)	su				7.06
Sulfate	mg/L	344	250	344	110
Total Dissolved Solids	mg/L	1168.639	500	1168.639	520
Appendix IV					
Antimony	mg/L	0.005	0.006	0.006	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.0057
Barium	mg/L	0.168	2	2	0.036
Beryllium	mg/L	0.001	0.004	0.004	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	0.00091 J
Fluoride	mg/L	1	4	2	0.14
Lead	mg/L	0.003	0.015	0.004	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	< 0.0034 U
Mercury	mg/L	0.0002	0.002	0.002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	< 0.0011 U
Radium-226	pCi/L				< 0.285 U
Radium-228	pCi/L				< 0.701 U
Radium-226/228	pCi/L	5	5	5	< 0.701 U
Selenium	mg/L	0.005	0.05	0.05	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.00051 U
Other					
Total Suspended Solids	mg/L				1.9 J
Bicarbonate	mg/L				360 B
Carbonate	mg/L				< 2.6 U
Hardness (as CaCO3)	mg/L				490
Magnesium	mg/L				32
Potassium	mg/L				--
Sodium	mg/L				--

Groundwater Sampling Results for MW-14

LBWL Erickson Station

Sample Location:					MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14
Sample Date:					1/12/2023	1/12/2023	2/17/2023	2/17/2023	3/24/2023	3/24/2023	4/28/2023	4/28/2023	6/2/2023	6/2/2023	7/7/2023	7/7/2023	8/11/2023
Sample Type:					N	FD	N	FD	N	FD	N	FD	N	FD	N	FD	N
Gradient:					Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient
Sampling Phase:					Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background
Fraction:					T	T	T	T	T	T	T	T	T	T	T	T	T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.04	7.04	7.11	7.11	6.98	6.98	7.13	7.13	7	7	7.06	7.06	6.95
Specific Conductivity	mS/cm				1.27	1.27	1.091	1.091	1.295	1.295	1.323	1.323	1.307	1.307	1.285	1.285	1.285
Turbidity	NTU				6.31	6.31	5.34	5.34	3.95	3.95	4.05	4.05	5.42	5.42	3.24	3.24	3.1
Dissolved Oxygen	mg/L				0.45	0.45	0.39	0.39	0.07	0.07	0.09	0.09	0.21	0.21	0.06	0.06	0.02
Temperature	deg C				10.9	10.9	10.1	10.1	10.5	10.5	10.3	10.3	13.3	13.3	13.7	13.7	14.1
Oxidation Reduction Potential	mV				-105.6	-105.6	-89.4	-89.4	-104.3	-104.3	-124.8	-124.8	-114.2	-114.2	-96.5	-96.5	-116.2
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	6.58	6.78	9.46	9.35	10.2	10.4	11.2	11.2 J	11.5	11.8	11.4	11.5 J	12.9
Nickel	mg/L	0.021		0.1	0.006	0.007	0.005 J+	< 0.005 UJ	< 0.005 UJ	0.005 J+	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 UJ	0.005 J+	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 UJ	0.005 J+	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005 UJ	0.007 J+	< 0.005	< 0.005	< 0.005 UJ	0.013 J+	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	2.29	2.32	2.23	2.2	2.11	2.2	2.03	2.06	2.06	2.02	2.16	2.14	2.14
Calcium	mg/L	188		188	147	149	144	144	144	148	143	140 J	141	141	148	148	147
Chloride	mg/L	94.377	250	250	108	109	111	112	114	114	115	115	114	114	113	114	118
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
pH (Field Measure)	su				7.04	7.04	7.11	7.11	6.98	6.98	7.13	7.13	7	7	7.06	7.06	6.95
Sulfate	mg/L	344	250	344	30	30	22	21	748	748	17	16	19	19	20	19	16
Total Dissolved Solids	mg/L	1168.639	500	1168.639	774	768	732	716	< 0.005	< 0.005	796	782	792	784	784	774	804
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	0.004	0.004	0.006	0.005	0.005	0.006	0.006	0.005	0.005	0.006	0.007	0.008	0.007
Barium	mg/L	0.168	2	2	0.177	0.122	0.119	0.116	0.128	0.126	0.12	0.119	0.126	0.128	0.134	0.131	0.122
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.125	0.132	0.122	0.126	0.113	0.113	0.111	0.111	0.106	0.106	0.108	0.106	0.111
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	0.012	0.013	0.015	0.014	0.014	0.014	0.013	0.012	0.014	0.015	0.016	0.016	0.013
Radium-226	pCi/L				0.907	0.322	0.396	0.363	0.964 J+	0.321 J-	0.26 J-	1.27 J+	0.275	0.271	0.388	0.244	0.624
Radium-228	pCi/L				3.53	3.07	0.272 J-	1.07 J+	0.853	1.1	1.2 J+	0.807 J+	0.601 J-	0.983 J+	0.0761 J-	0.915 J+	0.326 J+
Radium-226/228	pCi/L	5	5	5	4.44	3.39	0.668 J-	1.43 J+	1.82	1.41	1.46 J	2.08 J+	0.876 J-	1.25 J+	0.464 J-	1.16 J+	0.951 J+
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.009	0.009	0.013	0.012	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				16	16	4 J-	7 J+	22.2	22	23.4	24.3	26	26	24.8	26.3	25.9
Bicarbonate	mg/L				600	610	601	606	650	650	660	670	630	630	640	650	690
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				556	554	498	506	536	548	566	562	540	550	536	548	588
Magnesium	mg/L				42.3	42.2	41.3	41.2	40.3	42.1	39.7	38.5	40	39.5	41.9	41	42.2
Potassium	mg/L				4.79	4.76	5.82	5.81	4.72	4.82	4.55	4.43	4.65	4.72	5.03	5.08	4.96
Sodium	mg/L				79.2	80.4	78.3	77.9	75.8	77.3	72.5	70.9	73.7	73.9	79	77	77.8

Groundwater Sampling Results for MW-14

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-14 8/11/2023 FD Downgradient Background T	MW-14 9/15/2023 N Downgradient Background T	MW-14 9/15/2023 FD Downgradient Background T	MW-14 1/31/2024 N Downgradient AM T	MW-14 8/5/2024 N Downgradient AM T	MW-14 2/4/2025 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS						
Field Parameters										
pH	su				6.95	6.92	6.92	6.95	7.04	7.04
Specific Conductivity	mS/cm				1.285	1.277	1.277	1.358	1.324	1.346
Turbidity	NTU				3.1	6.35	6.35	1.74	6.94	7.74
Dissolved Oxygen	mg/L				0.02	0	0	0.18	0.62	-0.04
Temperature	deg C				14.1	13.5	13.5	10.6	18	11.5
Oxidation Reduction Potential	mV				-116.2	-127.9	-127.9	-175.1	-109.4	-131.4
Part 115										
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	12.7	11.9	11.7	14.7	14.4	15
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	0.005	0.005	0.0038
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0019 J
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	0.024	< 0.005	0.018 B
Appendix III										
Boron	mg/L	0.48		0.5	2.1	2.17	2.13	2.22	1.96	2
Calcium	mg/L	188		188	149	154	155	161	173	160
Chloride	mg/L	94.377	250	250	118	111	110	119	115	100
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.15
pH (Field Measure)	su				6.95	6.92	6.92	6.95	7.04	7.04
Sulfate	mg/L	344	250	344	16	16	16	8.5	5.9	6.7
Total Dissolved Solids	mg/L	1168.639	500	1168.639	804	808	824	818	866	750
Appendix IV										
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.007	0.008	0.007	0.008	0.006	0.0064
Barium	mg/L	0.168	2	2	0.124	0.132	0.138	0.131	0.131	0.14
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00069 J
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.15
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.109	0.109	0.112	0.109	0.102	0.099
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.014	0.014	0.014	0.012	0.012	0.012
Radium-226	pCi/L				0.465	0.442 J	1.06 J+	0.16	5.03	< 0.358 U
Radium-228	pCi/L				0.147 J-	0.497 J	0.821 J+	0.833	1.84	< 1.02 UG
Radium-226/228	pCi/L	5	5	5	0.612 J-	0.939 J	1.88 J+	0.994	6.88	< 1.02 U
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other										
Total Suspended Solids	mg/L				26.6	24.8	25.4	27.6	30.3	37
Bicarbonate	mg/L				680	670	660	850	770	570
Carbonate	mg/L				< 10	< 10	< 10	< 50	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				630	574	584	610	610	590
Magnesium	mg/L				42.1	42.1	43.8	44.1	46.4	44
Potassium	mg/L				5.07	5.43	5.58	5.71	5.38	--
Sodium	mg/L				78.3	79.4	80.4	77.4	78.5	--

Groundwater Sampling Results for MW-15

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-15 1/12/2023 N Downgradient Background T	MW-15 2/17/2023 N Downgradient Background T	MW-15 3/24/2023 N Downgradient Background T	MW-15 4/28/2023 N Downgradient Background T	MW-15 6/2/2023 N Downgradient Background T	MW-15 7/7/2023 N Downgradient Background T	MW-15 8/11/2023 N Downgradient Background T	MW-15 9/15/2023 N Downgradient Background T	MW-15 1/31/2024 N Downgradient AM T	MW-15 8/7/2024 N Downgradient AM T	MW-15 2/4/2025 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS											
Field Parameters															
pH	su				6.86	6.98	6.9	6.99	6.84	6.83	6.7	6.69	6.7	6.68	6.74
Specific Conductivity	mS/cm				1.319	0.872	0.912	0.851	0.879	0.945	1.007	1.021	0.451	0.893	1.029
Turbidity	NTU				2.4	5.15	4.15	4.84	6.51	5.75	3.33	5.64	7.52	4.23	7.59
Dissolved Oxygen	mg/L				5.41	4.81	3.72	2.48	0.89	0.38	0.87	0.67	0.22	0.01	4.35
Temperature	deg C				7.9	7.5	7.3	8.4	13	13.3	14.5	14.6	8.1	15.9	8
Oxidation Reduction Potential	mV				195.6	153.9	59.8	133.9	113.8	11.3	30.8	44.2	-153.9	1.1	225.1
Part 115															
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	< 0.02	0.04	0.02	0.03	0.11	0.11	0.05	0.14	0.12	0.38	0.031 J
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	0.021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00093 U
Appendix III															
Boron	mg/L	0.48		0.5	0.37	0.34	0.33	0.34	0.35	0.4	0.41	0.44	0.39	0.41	0.3
Calcium	mg/L	188		188	183	140	119	104	115	133	140	145	131	131	150
Chloride	mg/L	94.377	250	250	100	84	72	60	59	65	73	78	69.3	74.7	91
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.047 J
pH (Field Measure)	su				6.86	6.98	6.9	6.99	6.84	6.83	6.7	6.69	6.7	6.68	6.74
Sulfate	mg/L	344	250	344	238	135	124	109	109	117	117	109	95	49.7	110
Total Dissolved Solids	mg/L	1168.639	500	1168.639	878	606	690	528	578	638	670	680	604	554	650
Appendix IV															
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002	0.00097 J
Barium	mg/L	0.168	2	2	0.077	0.05	0.047	0.042	0.049	0.061	0.067	0.069	0.055	0.058	0.059
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.000086 U
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.047 J
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.014	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0034 U
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0011 U
Radium-226	pCi/L				0.629	0.334	0.868	0.464	0.876	0.525	0.75	0.491	0.31	0.425	< 0.228 U
Radium-228	pCi/L				1.43	-0.367	-0.188	1.51 J+	-0.108	-0.119	0.47	1.46	0.00555	0.495	1.1
Radium-226/228	pCi/L	5	5	5	2.06	0.334	0.868	1.97 J+	0.876	0.525	1.22	1.95	0.316	0.921	1.26
Selenium	mg/L	0.005	0.05	0.05	0.01	0.026	0.034	0.021	0.011	0.009	< 0.005	< 0.005	< 0.005	< 0.005	0.019
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other															
Total Suspended Solids	mg/L				< 3	< 3	< 3	< 3	1.8	1.6	< 3	< 3	< 3	0.8	< 0.4 U
Bicarbonate	mg/L				410	354	330	330	350	380	430	440	433	430	330
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				464	473	426	406	420	460	512	506	484	442	520
Magnesium	mg/L				47.2	35.1	31.1	25.7	28.9	32.2	34.2	34.2	31.6	31.4	38
Potassium	mg/L				0.61	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
Sodium	mg/L				40.5	30.3	29.5	28.3	27.4	28.5	29.7	38.8	30.4	29.4	--

Groundwater Sampling Results for MW-16A

LBWL Erickson Station

Sample Location:					MW-16A	MW-16A	MW-16A	MW-16A	MW-16A	MW-16A	MW-16A	MW-16A	MW-16A	MW-16A	MW-16A	MW-16A	MW-16A
Sample Date:					2/2/2023	2/2/2023	3/21/2023	3/21/2023	4/25/2023	4/25/2023	5/30/2023	5/30/2023	7/5/2023	7/5/2023	8/8/2023	8/8/2023	9/12/2023
Sample Type:					N	FD	N	FD	N	FD	N	FD	N	FD	N	FD	N
Gradient:					Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient
Sampling Phase:					Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background
Fraction:					T	T	T	T	T	T	T	T	T	T	T	T	T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				6.95	6.95	6.91	6.91	7	7	6.72	6.72	6.79	6.79	6.84	6.84	6.76
Specific Conductivity	mS/cm				2.219	2.219	1.871	1.871	1.948	1.948	1.875	1.875	2.163	2.163	2.271	2.271	2.579
Turbidity	NTU				3.06	3.06	4.15	4.15	6.54	6.54	4.01	4.01	6.18	6.18	3.81	3.81	5.28
Dissolved Oxygen	mg/L				0.22	0.22	0.2	0.2	0.1	0.1	0.05	0.05	0.43	0.43	0.07	0.07	0.34
Temperature	deg C				7.3	7.3	8.6	8.6	8.3	8.3	12.5	12.5	15.6	15.6	16.5	16.5	16.8
Oxidation Reduction Potential	mV				-51	-51	-48.6	-48.6	-65.2	-65.2	-49.9	-49.9	-102.3	-102.3	-67.3	-67.3	-59.8
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	3.71	3.7	3.15	3.14	2.96	2.99	2.59	2.52	2.69	2.72	2.63	2.54	4.13
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	0.21	0.21	0.11	0.11	0.1	0.1	0.1	0.11	0.11	0.11	0.16	0.17	0.23
Calcium	mg/L	188		188	179	176	147	150	145	148	172	171	173	174	172	167	220
Chloride	mg/L	94.377	250	250	383	383	405	411	391	397	401	400	436	439	423	442	484
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 1
pH (Field Measure)	su				6.95	6.95	6.91	6.91	7	7	6.72	6.72	6.79	6.79	6.84	6.84	6.76
Sulfate	mg/L	344	250	344	145	146	86	85	92	92	132	132	151	154	131	130	239
Total Dissolved Solids	mg/L	1168.639	500	1168.639	1360	1350	1180	1180	1170	1170	1260	1270	1370	1340	1390	1390	1640
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	0.003	0.004	0.003	0.003	0.003	0.003	0.002	0.002	0.003	0.004	0.004	0.004	0.003
Barium	mg/L	0.168	2	2	0.16	0.156	0.118	0.119	0.108	0.111	0.126	0.121	0.136	0.138	0.132	0.135	0.178
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.005 J+	< 0.005 UJ	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Radium-226	pCi/L				0.385	0.325	0.51 J-	1.22 J+	0.781	0.721	0.585 J+	0.261 J-	6.13 J+	1.17 J-	0.232 J-	1.18 J+	0.421 J-
Radium-228	pCi/L				0.178 J+	-0.723 J-	0.698	0.907	1.59 J+	-2.75 J	-0.313 J-	4.94 J+	1.33 J+	-0.181 UJ	0.945	1.01	0.285 J-
Radium-226/228	pCi/L	5	5	5	0.562 J	0.325 J	1.21 J-	2.13 J+	2.37 J+	0.721 J	0.585 J-	5.2 J+	7.46 J+	1.17 J-	1.18 J-	2.19 J+	0.705 J-
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005 J+
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				7	7	< 3	< 3	2	1.6	5.7	5.2	2.5 J	2 J	2.1 J+	1.2 J-	3.5
Bicarbonate	mg/L				610	620	460	470	420	420	440	430	460	470	510	500	520
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				608	605	524	522	526	519	570	576	598	600	578	568	840
Magnesium	mg/L				42.4	42.3	33.9	34.1	33.2	34.4	37.2	36.6	39.9	38.5	38.5	38.7	52.2
Potassium	mg/L				2.12	2.06	1.58	1.58	1.34	1.45	1.16	1.04	1.24	1.23	1.25	1.21	1.4
Sodium	mg/L				276	281	244	247	229	243	241	240	253	258	279	262	307

Groundwater Sampling Results for MW-16A

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-16A 9/12/2023 FD Downgradient Background T	MW-16A 10/17/2023 N Downgradient Background T	MW-16A 10/17/2023 FD Downgradient Background T	MW-16A 11/21/2023 N Downgradient Background T	MW-16A 11/21/2023 FD Downgradient Background T	MW-16A 2/1/2024 N Downgradient AM T	MW-16A 8/6/2024 N Downgradient AM T	MW-16A 2/6/2025 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS								
Field Parameters												
pH	su				6.76	6.78	6.78	6.82	6.82	6.99	6.81	6.74
Specific Conductivity	mS/cm				2.579	2.599	2.599	2.44	2.44	2.606	2.37	2.561
Turbidity	NTU				5.28	6.41	6.41	4.39	4.39	5.41	5.44	5.76
Dissolved Oxygen	mg/L				0.34	0.01	0.01	0.01	0.01	0.12	0.03	0.28
Temperature	deg C				16.8	15.8	15.8	13.6	13.6	9.2	16.2	8.6
Oxidation Reduction Potential	mV				-59.8	-3.1	-3.1	-43.9	-43.9	-42.4	-39.6	17.8
Part 115												
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	4.11	3.78	3.81	3.08	3.04	4.38	3.04	3.2
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0015 J
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00093 U
Appendix III												
Boron	mg/L	0.48		0.5	0.22	0.21	0.21	0.19	0.2	0.16	0.25	0.21
Calcium	mg/L	188		188	219	226	226	210	211	208	196	200
Chloride	mg/L	94.377	250	250	493	505	505	459	455	448	492	480
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 5	< 1	0.098
pH (Field Measure)	su				6.76	6.78	6.78	6.82	6.82	6.99	6.81	6.74
Sulfate	mg/L	344	250	344	250	257	257	264	257	341	235	240
Total Dissolved Solids	mg/L	1168.639	500	1168.639	1630	1720	1730	1580	1590	1590	1560	1500
Appendix IV												
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.004	0.004	0.004	0.004	0.003	0.005	0.003	0.0018 J
Barium	mg/L	0.168	2	2	0.172	0.177	0.181	0.163	0.166	0.158	0.146	0.16
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0012
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 5	< 1	0.098
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0035 J
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0017 J
Radium-226	pCi/L				1.06 J+	0.892	0.682	2.26	1.78	1.63	0.413	0.285
Radium-228	pCi/L				1.05 J+	2.26	2.85	0.548 J-	1.23 J+	2.12	0.189	< 0.527 U
Radium-226/228	pCi/L	5	5	5	2.1 J+	3.15	3.53	2.8	3.01	3.74	0.602	0.709
Selenium	mg/L	0.005	0.05	0.05	< 0.005 UJ	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other												
Total Suspended Solids	mg/L				3.9	4.5	4.5	1.2 J+	< 3 UJ	6.5	1.7	6.8
Bicarbonate	mg/L				520	520	510	510	510	588	530	420 B
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				860	732	724	754	766	756	698	720
Magnesium	mg/L				52.2	51.1	51.7	52.4	52.1	46.9	46.3	52
Potassium	mg/L				1.44	1.45	1.4	1.49	1.49	1.57	1.72	--
Sodium	mg/L				308	324	322	312	294	277	297	--

Groundwater Sampling Results for MW-16B

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-16B 2/2/2023 N Downgradient Background T	MW-16B 3/21/2023 N Downgradient Background T	MW-16B 4/25/2023 N Downgradient Background T	MW-16B 5/30/2023 N Downgradient Background T	MW-16B 7/5/2023 N Downgradient Background T	MW-16B 8/8/2023 N Downgradient Background T	MW-16B 9/12/2023 N Downgradient Background T	MW-16B 10/17/2023 N Downgradient Background T	MW-16B 11/21/2023 N Downgradient Background T	MW-16B 2/1/2024 N Downgradient AM T	MW-16B 2/1/2024 FD Downgradient AM T	MW-16B 8/6/2024 N Downgradient AM T	MW-16B 8/6/2024 FD Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.49	7.45	7.5	7.25	7.34	7.42	7.32	7.46	7.47	7.56	7.56	7.41	7.41
Specific Conductivity	mS/cm				0.623	0.587	0.619	0.578	0.613	0.635	0.59	0.634	0.625	0.615	0.615	0.604	0.604
Turbidity	NTU				7.42	5.65	6.29	3.94	4.41	4.32	0.44	1.32	6.34	6.45	6.45	9.34	9.34
Dissolved Oxygen	mg/L				0.18	0.12	0.11	0.09	0.37	0.05	0	0.01	0	0.08	0.08	0.03	0.03
Temperature	deg C				9.2	12	11.1	14.4	15.8	15.6	14.5	13.6	13	11.8	11.8	14.8	14.8
Oxidation Reduction Potential	mV				-125.7	-107	-102.1	-104.2	-130.4	-101.2	-136.1	-63.3	-127.7	-88.2	-88.2	-87.7	-87.7
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	0.93	0.62	0.51	0.67	0.43	0.42	0.41	0.45	0.39	0.33	0.32	0.39	0.39
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	0.12	0.13	0.12	0.13	0.11	0.12	0.11	0.11	0.12	0.11	0.12	0.11	0.11
Calcium	mg/L	188		188	74.5	76.9	78.4	79.5	80.8	81.7	80.2	85.4	83.9	81.8	79.9	84.5	84.5
Chloride	mg/L	94.377	250	250	< 5	11	5	< 5	< 5	3.7	< 5	< 5	3.1	4.1	4	3.5	3.7
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.31	< 1	< 1	< 1	0.7	0.7	0.8	0.8
pH (Field Measure)	su				7.49	7.45	7.5	7.25	7.34	7.42	7.32	7.46	7.47	7.56	7.56	7.41	7.41
Sulfate	mg/L	344	250	344	18	16	16	15	17	17	18	18	17.8	17.4	17.4	19.9	20.6
Total Dissolved Solids	mg/L	1168.639	500	1168.639	366	366	350	358	366	366	366	378	370	364	366	376	368
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.168	2	2	0.09	0.085	0.085	0.082	0.089	0.085	0.086	0.089	0.091	0.089	0.087	0.085	0.084
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.31	< 1	< 1	< 1	0.7	0.7	0.8	0.8
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.023	0.023	0.022	0.022	0.019	0.022	0.021	0.02	0.021	0.02	0.021	0.02	0.021
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	0.008	0.006	0.006	0.005	0.006	0.006	0.006	0.007	0.006	0.006	0.006	0.006	0.006
Radium-226	pCi/L				0.997	0.761	0.49	0.16	3.03	0.391	1.31	1.56	0.804	1.32 J+	0.608 J-	0.591	0.508
Radium-228	pCi/L				0.829	1.79	1.3 J+	1.81	1.07	0.644	1.09	4.87	0.831	0.767 J+	0.495 J-	1.32 J+	0.491 J-
Radium-226/228	pCi/L	5	5	5	1.83	2.56	1.79 J+	1.97	4.09	1.04	2.4	6.43	1.63	2.09 J+	1.1 J-	1.91 J+	0.998 J-
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				7	< 3	1.4	2.4	1	< 3	< 3	< 3	< 3	1	< 3	0.6	1.1
Bicarbonate	mg/L				390	400	400	420	410	410	400	400	400	414	422	420	440
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				322	329	335	324	334	344	380	348	355	358	377	352	350
Magnesium	mg/L				29.7	32.7	33.3	32.6	35.6	35	33.4	34.5	36.4	32.4	32.1	34.6	35
Potassium	mg/L				3.81	3.17	3	2.89	2.97	2.91	2.86	2.8	3.02	2.9	2.9	2.86	2.9
Sodium	mg/L				24.5	15.5	12.6	12.2	11.1	11.1	10.6	11.1	11	10.3	10.3	10.7	10.8

Groundwater Sampling Results for MW-16B

LBWL Erickson Station

Sample Location:					MW-16B
Sample Date:					2/6/2025
Sample Type:					N
Gradient:					Downgradient
Sampling Phase:					AM
Fraction:					T
Constituent	Unit	BTV(1)	MCL	State GPS	
Field Parameters					
pH	su				7.43
Specific Conductivity	mS/cm				0.628
Turbidity	NTU				6.75
Dissolved Oxygen	mg/L				0.02
Temperature	deg C				11.3
Oxidation Reduction Potential	mV				-75.7
Part 115					
Copper	mg/L	0.005	1.3	1	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	0.4
Nickel	mg/L	0.021		0.1	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.00093 U
Appendix III					
Boron	mg/L	0.48		0.5	0.11
Calcium	mg/L	188		188	82
Chloride	mg/L	94.377	250	250	2.8
Fluoride	mg/L	1	4	2	1
pH (Field Measure)	su				7.43
Sulfate	mg/L	344	250	344	21
Total Dissolved Solids	mg/L	1168.639	500	1168.639	350
Appendix IV					
Antimony	mg/L	0.005	0.006	0.006	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	< 0.00075 U
Barium	mg/L	0.168	2	2	0.086
Beryllium	mg/L	0.001	0.004	0.004	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.000086 U
Fluoride	mg/L	1	4	2	1
Lead	mg/L	0.003	0.015	0.004	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.021
Mercury	mg/L	0.0002	0.002	0.002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.0062
Radium-226	pCi/L				0.458
Radium-228	pCi/L				0.65
Radium-226/228	pCi/L	5	5	5	1.11
Selenium	mg/L	0.005	0.05	0.05	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.00051 U
Other					
Total Suspended Solids	mg/L				1.4 J
Bicarbonate	mg/L				340 B
Carbonate	mg/L				< 2.6 U
Hardness (as CaCO3)	mg/L				350
Magnesium	mg/L				35
Potassium	mg/L				--
Sodium	mg/L				--

Groundwater Sampling Results for MW-16C

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-16C 2/2/2023 N Downgradient Background T	MW-16C 3/21/2023 N Downgradient Background T	MW-16C 4/25/2023 N Downgradient Background T	MW-16C 5/30/2023 N Downgradient Background T	MW-16C 7/5/2023 N Downgradient Background T	MW-16C 8/8/2023 N Downgradient Background T	MW-16C 9/12/2023 N Downgradient Background T	MW-16C 10/17/2023 N Downgradient Background T	MW-16C 11/21/2023 N Downgradient Background T	MW-16C 2/1/2024 N Downgradient AM T	MW-16C 8/6/2024 N Downgradient AM T	MW-16C 2/6/2025 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS												
Field Parameters																
pH	su				7.44	7.46	7.41	7.17	7.18	7.25	7.25	7.36	7.36	7.46	7.22	7.32
Specific Conductivity	mS/cm				0.601	0.575	0.585	0.529	0.58	0.59	0.562	0.592	0.586	0.565	0.557	0.573
Turbidity	NTU				34.25	7.24	6.41	2.58	1.81	0.45	1.02	4.01	6.01	6.15	6.29	6.45
Dissolved Oxygen	mg/L				0.1	0.17	0.12	0.02	0.36	0.04	0	0	0	0.07	0.26	0.03
Temperature	deg C				9.9	11.9	11	14.2	1.1	14.8	14.3	13.7	13.2	11.6	14.9	11
Oxidation Reduction Potential	mV				-62.2	-103.8	-97.3	-89	-126.5	-108.1	-139.6	-92.6	-145.6	-93.4	-42.2	-68.6
Part 115																
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	0.76	1.1	0.64	0.61	0.51	0.48	0.48	0.47	0.45	0.46	0.45	0.36
Nickel	mg/L	0.011		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00093 U
Appendix III																
Boron	mg/L	3.52		3.52	0.4	0.4	0.39	0.4	0.39	0.41	0.4	0.4	0.43	0.42	0.41	0.39
Calcium	mg/L	69.6		69.6	63.2	62.1	66.5	70.5	73.4	73.9	71.7	77.1	76.8	72.6	77.2	75
Chloride	mg/L	5	250	250	8	< 5	< 5	< 5	< 5	2.5	< 5	< 5	2.2	2.3	1.8	1.1
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1	< 1	0.2	0.2	0.4	0.51
pH (Field Measure)	su				7.44	7.46	7.41	7.17	7.18	7.25	7.25	7.36	7.36	7.46	7.22	7.32
Sulfate	mg/L	5	250	250	19	8	7	7	8	7.2	8	8	7.9	7.5	9.9	11
Total Dissolved Solids	mg/L	380	500	500	418	370	330	344	320	322	334	332	340	328	332	320
Appendix IV																
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.009	0.01	0.01	0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.00075 U
Barium	mg/L	0.081	2	2	0.051	0.061	0.05	0.041	0.035	0.032	0.033	0.031	0.03	0.031	0.027	0.027
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.011	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.000086 U
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1	< 1	0.2	0.2	0.4	0.51
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.03	0.026	0.027	0.026	0.026	0.029	0.027	0.026	0.029	0.029	0.029	0.028
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	0.007	0.009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0011 U
Radium-226	pCi/L				0.23	0.509	0.478	0.255	1.14	0.45	0.3	0.101	0.821	1.46	0.978	0.365
Radium-228	pCi/L				0.0142	3.09	-0.309 J+	-0.804	1.39	1.14	0.492	2.16	0.48	0.845	0.285	< 0.849 U
Radium-226/228	pCi/L	5.5	5	5.5	0.244	3.6	0.478 J+	0.225	2.52	1.59	0.796	2.26	1.3	2.3	1.26	< 0.849 U
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other																
Total Suspended Solids	mg/L				40	11.6	1.6	5.8	1.2	< 3	1.1	1.4	< 3	< 3	0.5	0.9 J
Bicarbonate	mg/L				370	400	400	470	410	400	400	410	390	414	400	320 B
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				263	253	272	292	293	298	310	304	318	305	308	320
Magnesium	mg/L				24.4	25.6	27.3	27	29.9	31.1	29.9	30.5	31.4	27.9	30	31
Potassium	mg/L				3.72	3.56	3.97	4.08	4.86	4.65	4.93	4.75	5.11	4.93	5.08	--
Sodium	mg/L				39.4	41.4	28.5	25.4	17.2	15.6	15.7	15.7	15.7	15.8	12.5	--

Groundwater Sampling Results for MW-16D

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-16D 2/2/2023 N Downgradient Background T	MW-16D 3/21/2023 N Downgradient Background T	MW-16D 4/25/2023 N Downgradient Background T	MW-16D 5/30/2023 N Downgradient Background T	MW-16D 7/5/2023 N Downgradient Background T	MW-16D 8/8/2023 N Downgradient Background T	MW-16D 9/12/2023 N Downgradient Background T	MW-16D 10/17/2023 N Downgradient Background T	MW-16D 11/21/2023 N Downgradient Background T	MW-16D 2/1/2024 N Downgradient AM T	MW-16D 8/6/2024 N Downgradient AM T	MW-16D 2/6/2025 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS												
Field Parameters																
pH	su				7.67	7.56	7.73	7.44	7.52	7.53	7.47	7.49	7.45	7.83	7.58	7.6
Specific Conductivity	mS/cm				0.582	0.596	0.62	0.638	0.624	0.614	0.588	0.612	0.601	0.614	0.609	0.596
Turbidity	NTU				8.31	7.31	4.95	7.05	4.32	5.12	7.02	7.95	6.01	6.85	5.02	1.53
Dissolved Oxygen	mg/L				4.82	0.39	0.38	0.28	0.28	0.07	0.19	0.17	0.08	0.06	0.41	0.32
Temperature	deg C				8.6	8.4	3.9	19.6	22.5	19	15.2	12.5	11.2	9.8	16.5	5.4
Oxidation Reduction Potential	mV				44.3	85.9	-44.2	-3.5	-106.7	-101.2	-141.5	-103.6	-122.4	-200.1	-102.9	-119.9
Part 115																
Copper	mg/L	0.005	1.3	1	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	0.16	0.06	0.08	0.38	0.25	0.28	0.34	0.45	0.28	0.48	0.55	0.4
Nickel	mg/L	0.011		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U
Zinc	mg/L	0.042	5	5	0.11	0.271	0.183	0.036	0.025	0.011	0.008	0.023	0.014	0.008	< 0.005	0.0014 J
Appendix III																
Boron	mg/L	3.52		3.52	4.65	4.59	4.59	4.7	4.39	4.7	4.69	4.62	4.85	5.01	4.33	4.3
Calcium	mg/L	69.6		69.6	29.3	29	28.9	28.9	28.5	29.3	29.4	30.5	30	29.3	30.5	29
Chloride	mg/L	5	250	250	6	7	8	8	8	6.8	7	7	7.25	7.6	7.2	6.5
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1	< 1	0.36	0.4	0.5	0.76
pH (Field Measure)	su				7.67	7.56	7.73	7.44	7.52	7.53	7.47	7.49	7.45	7.83	7.58	7.6
Sulfate	mg/L	5	250	250	< 5	9	13	7	7	6.2	6	5	4.47	4.2	4.3	5.9
Total Dissolved Solids	mg/L	380	500	500	366	364	380	396	374	376	376	380	372	380	378	370
Appendix IV																
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.009	0.01	0.01	< 0.002	< 0.002	0.004	0.003	0.003	0.004	< 0.002	0.004	0.003	0.004	0.003	0.0023 J
Barium	mg/L	0.081	2	2	0.037	0.036	0.038	0.037	0.036	0.034	0.036	0.035	0.035	0.035	0.033	0.033
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.000086 U
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1	< 1	0.36	0.4	0.5	0.76
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.039	0.032	0.022	0.026	0.028	0.03	0.03	0.03	0.031	0.028	0.03	0.03
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	0.005	0.011	0.012	0.01	0.011	0.011	0.01	0.011	0.01	0.01	0.01	0.0096
Radium-226	pCi/L				0.591	0.763	2.21	0.515	1.21	0.542 J+	0.461	0.593	0.5	0.569	0.461	< 0.324 U
Radium-228	pCi/L				1.84	0.757	1.93 J+	-0.743	0.128	0.276	0.773	2.25	1.34	0.243	2.71	< 0.615 U
Radium-226/228	pCi/L	5.5	5	5.5	2.43	1.52	4.14 J+	0.515	1.33	0.818	1.23	2.85	1.84	0.812	3.17	< 0.615 U
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other																
Total Suspended Solids	mg/L				5	3.8	2	14	6.4	12.4	7.3	12	2	3	2.8	1.8 J
Bicarbonate	mg/L				380	390	380	430	400	380	400	390	400	394	400	320 B
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				96	107	103	101	97	96	100	105	118	124	120	100
Magnesium	mg/L				6.99	7.31	7.28	7.41	7.39	7.33	7.45	7.69	7.68	7.1	7.49	7.5
Potassium	mg/L				9.4	9.79	9.65	9.9	9.38	9.21	9.61	9.18	9.83	9.3	9.54	--
Sodium	mg/L				106	110	115	115	112	108	108	116	114	95	110	--

Groundwater Sampling Results for MW-17A

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-17A 10/8/2024 N Downgradient Background T	MW-17A 10/8/2024 FD Downgradient Background T	MW-17A 11/13/2024 N Downgradient Background T	MW-17A 11/13/2024 FD Downgradient Background T	MW-17A 12/18/2024 N Downgradient Background T	MW-17A 12/18/2024 FD Downgradient Background T	MW-17A 1/23/2025 N Downgradient Background T	MW-17A 1/23/2025 FD Downgradient Background T	MW-17A 2/27/2025 N Downgradient Background T	MW-17A 2/27/2025 FD Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS										
Field Parameters														
pH	su				7.2	7.2	7.15	7.15	7.31	7.31	7.17	7.17	7.16	7.16
Specific Conductivity	mS/cm				1.6	1.6	1.67	1.67	1.671	1.671	1.654	1.654	1.602	1.602
Turbidity	NTU				7.6	7.6	3.02	3.02	7.18	7.18	9.6	9.6	9.72	9.72
Dissolved Oxygen	mg/L				< 0.1	< 0.1	0.24	0.24	0	0	0.03	0.03	-0.1	-0.1
Temperature	deg C				12	12	11.6	11.6	10.2	10.2	8.5	8.5	8.8	8.8
Oxidation Reduction Potential	mV				-119.4	-119.4	-100.8	-100.8	-91.1	-91.1	-98.1	-98.1	71.1	71.1
Part 115														
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.05	< 0.05	< 0.005	< 0.005	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	6.32	6.39	7.39 J+	1.51 J-	7.47	7.62	6.5	7	6.5	6.2
Nickel	mg/L	0.021		0.1	0.011	0.011	< 0.05	< 0.05	0.015	0.016	0.013	0.014	0.014	0.014
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.005	< 0.005	< 0.0005	< 0.0005	< 0.000053 U	< 0.000053 U	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.015 U	< 0.015 U	0.0013 J	0.0015 J
Appendix III														
Boron	mg/L	0.48		0.5	3.84	3.66	4.07	3.75	3.71	3.88	4	4.3	4.7	4.4
Calcium	mg/L	188		188	249	247	244 J+	73.4 J-	266	266	240	250	240	240
Chloride	mg/L	94.377	250	250	68.7	68.6	68.3 J+	41.8 J-	68.5	73.1	68	68	67	67
Fluoride	mg/L	1	4	2	< 0.05	< 0.5	< 0.5 UJ	0.56 J+	< 1	< 1	0.25	0.25	0.44 J+	0.22 J-
pH (Field Measure)	su				7.2	7.2	7.15	7.15	7.31	7.31	7.17	7.17	7.16	7.16
Sulfate	mg/L	344	250	344	569	577	656 J+	209 J-	644	635	670	670	650	640
Total Dissolved Solids	mg/L	1168.639	500	1168.639	1290	1320	1400 J+	694 J-	1400	1400	1300	1300	1300	1300
Appendix IV														
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	0.002 J+	< 0.002 UJ	0.002	0.002	0.0017 J	0.0014 J	0.0011 J	0.00095 J
Barium	mg/L	0.168	2	2	0.048	0.049	0.046 J+	0.028 J-	0.046	0.046	0.037	0.04	0.038	0.038
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.005	< 0.005	< 0.0005	< 0.0005	< 0.000077 U	< 0.000077 U	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.05	< 0.05	< 0.005	< 0.005	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.000086 U	< 0.000086 U	< 0.000086 U	< 0.000086 U
Fluoride	mg/L	1	4	2	< 0.05	< 0.5	< 0.5 UJ	0.56 J+	< 1	< 1	0.25	0.25	0.44 J+	0.22 J-
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.059	0.059	0.059 J-	0.086 J+	0.059	0.059	0.053	0.055	0.053	0.053
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.014	0.014	0.015 J-	0.078 J+	0.017	0.017	--	--	0.018	0.016
Radium-226	pCi/L				0.418 J-	0.812 J+	0.6	0.588	2.45 J+	0.889 J-	0.171	0.162	< 0.163 U	< 0.15 U
Radium-228	pCi/L				1.12 J-	3.06 J+	0.0963 UJ	2.84 J+	3.07	2.53	< 0.613 UJ	0.79 J+	< 0.644 UJ	< 0.619 UJ
Radium-226/228	pCi/L	5	5	5	1.54 J-	3.87 J+	0.697 J-	3.43 J+	5.52 J+	3.42 J-	< 0.613 UJ	0.953 J+	0.65 J+	< 0.619 UJ
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U	< 0.00051 U	< 0.00051 U
Other														
Total Suspended Solids	mg/L				9.8	10	13.7 J+	2 J-	14	13.9	14	16	14	15
Bicarbonate	mg/L				360	360	330	340	320	320	250 B	250	250	250
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				900	910	1100 J+	260 J-	946	978	870	920	890	880
Magnesium	mg/L				66.8	65.8	68.6 J+	14.5 J-	76	74.6	66	71	70	70
Potassium	mg/L				2.78	2.78	2.65 J-	5.7 J+	2.97	2.85	--	--	--	--
Sodium	mg/L				52.8	52.3	48.5 J-	140 J+	54.5	53	--	--	--	--

Groundwater Sampling Results for MW-17B

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-17B 10/8/2024 N Downgradient Background T	MW-17B 11/13/2024 N Downgradient Background T	MW-17B 12/18/2024 N Downgradient Background T	MW-17B 1/23/2025 N Downgradient Background T	MW-17B 2/27/2025 N Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS					
Field Parameters									
pH	su				7.4	7.48	7.65	7.26	7.25
Specific Conductivity	mS/cm				1.2	0.986	1.167	1.218	1.22
Turbidity	NTU				3.1	3.48	7.37	3.75	2.29
Dissolved Oxygen	mg/L				< 0.1	0.53	0	-0.1	-0.22
Temperature	deg C				12	11.3	9.3	8.7	9.2
Oxidation Reduction Potential	mV				-171.4	-132.7	-127.6	-96.8	10.5
Part 115									
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.05	< 0.005	< 0.0017 U	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	2.59	7.27	2.87	2.4	2.3
Nickel	mg/L	0.021		0.1	< 0.005	< 0.05	< 0.005	0.004	0.0043
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.005	< 0.0005	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	0.12	0.045
Appendix III									
Boron	mg/L	0.48		0.5	2.16	4.1	1.8	1.9	2.1
Calcium	mg/L	188		188	144	243	127	140	140
Chloride	mg/L	94.377	250	250	80.9	68.3	72.1	67	67
Fluoride	mg/L	1	4	2	< 0.05	< 0.5	0.13	0.33	0.32
pH (Field Measure)	su				7.4	7.48	7.65	7.26	7.25
Sulfate	mg/L	344	250	344	352	643	331	400	390
Total Dissolved Solids	mg/L	1168.639	500	1168.639	856	1400	846	870	860
Appendix IV									
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	0.002	0.004	0.0036 J	0.0018 J
Barium	mg/L	0.168	2	2	0.058	0.044	0.07	0.054	0.05
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.005	< 0.0005	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.05	< 0.005	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	0.00026 J	0.0001 JB
Fluoride	mg/L	1	4	2	< 0.05	< 0.5	0.13	0.33	0.32
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.117	0.059	0.094	0.085	0.091
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.111	0.018	0.115	--	0.097
Radium-226	pCi/L				0.551	0.474	1.05	< 0.182 U	0.199
Radium-228	pCi/L				2.11	1.92	0.461	< 0.625 U	< 0.685 U
Radium-226/228	pCi/L	5	5	5	2.66	2.4	1.51	0.662	< 0.685 U
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U
Other									
Total Suspended Solids	mg/L				3.2	16	4.9	5.7	6
Bicarbonate	mg/L				190	320	220	180 B	190
Carbonate	mg/L				< 10	< 10	< 10	< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				490	1110	440	490	470
Magnesium	mg/L				30.7	67.3	30.8	34	32
Potassium	mg/L				4.26	2.58	4.25	--	--
Sodium	mg/L				81	47.8	111	--	--

Groundwater Sampling Results for MW-17C

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-17C 10/8/2024 N Downgradient Background T	MW-17C 11/13/2024 N Downgradient Background T	MW-17C 12/18/2024 N Downgradient Background T	MW-17C 1/23/2025 N Downgradient Background T	MW-17C 2/27/2025 N Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS					
Field Parameters									
pH	su				7.5	7.57	7.16	7.14	7.06
Specific Conductivity	mS/cm				1.2	1.039	1.531	1.505	1.569
Turbidity	NTU				9.1	5.72	4.07	8.87	7.15
Dissolved Oxygen	mg/L				< 0.1	0.47	0	-0.1	-0.23
Temperature	deg C				13	11.3	9.3	8.4	9.4
Oxidation Reduction Potential	mV				-200.1	-136.8	-114.7	-71.2	25.1
Part 115									
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.05	< 0.005	< 0.0017 U	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	1.26	2.7	4.33	2.3	1.9
Nickel	mg/L	0.021		0.1	0.011	< 0.05	0.009	0.0064	0.0089
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.005	< 0.0005	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	0.056	0.0038 J
Appendix III									
Boron	mg/L	0.48		0.5	1.78	1.88	2.09	2.2	2.7
Calcium	mg/L	188		188	114	120	152	160	180
Chloride	mg/L	94.377	250	250	73.6	74.5	57.8	57	59
Fluoride	mg/L	1	4	2	< 0.5	0.23	< 1	0.34	0.3
pH (Field Measure)	su				7.5	7.57	7.16	7.14	7.06
Sulfate	mg/L	344	250	344	329	321	505	530	560
Total Dissolved Solids	mg/L	1168.639	500	1168.639	818	820	1190	1100	1100
Appendix IV									
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	0.00072 J	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.002	0.002	0.006	0.004 J	0.0024 J
Barium	mg/L	0.168	2	2	0.064	0.063	0.088	0.065	0.06
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.005	< 0.0005	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.05	< 0.005	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	0.00023 J	0.0001 JB
Fluoride	mg/L	1	4	2	< 0.5	0.23	< 1	0.34	0.3
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.088	0.094	0.055	0.056	0.056
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.107	0.098	0.072	--	0.047
Radium-226	pCi/L				1.33	0.4	0.945	0.267	0.337
Radium-228	pCi/L				0.165	1.53	1.57	0.617	< 0.539 U
Radium-226/228	pCi/L	5	5	5	1.5	1.93	2.51	0.884	0.738
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U
Other									
Total Suspended Solids	mg/L				6.8	4.3	10.1	7.4	5
Bicarbonate	mg/L				220	220	330	230 B	270
Carbonate	mg/L				< 10	< 10	< 10	< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				400	620	664	570	650
Magnesium	mg/L				28.6	29.8	42.9	42	48
Potassium	mg/L				4.12	3.83	5.66	--	--
Sodium	mg/L				105	82.2	142	--	--

Groundwater Sampling Results for MW-17D

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-17D 10/8/2024 N Downgradient Background T	MW-17D 11/13/2024 N Downgradient Background T	MW-17D 12/18/2024 N Downgradient Background T	MW-17D 1/23/2025 N Downgradient Background T	MW-17D 2/27/2025 N Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS					
Field Parameters									
pH	su				7.6	7.37	7.49	7.52	7.49
Specific Conductivity	mS/cm				0.53	0.529	0.54	0.504	0.513
Turbidity	NTU				9.5	1.33	7.12	3.67	4.24
Dissolved Oxygen	mg/L				< 0.1	0.16	0.01	-0.11	-0.24
Temperature	deg C				12	10.6	9.6	8.4	9.4
Oxidation Reduction Potential	mV				-94.5	-44	-122.9	-125.6	-67.1
Part 115									
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.05	< 0.005	< 0.0017 U	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	0.23	1.98	0.77	0.77	0.77
Nickel	mg/L	0.011		0.1	< 0.005	< 0.05	< 0.005	< 0.0015 U	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.005	< 0.0005	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	< 0.015 U	0.001 J
Appendix III									
Boron	mg/L	3.52		3.52	2.47	1.67	2.52	2.6	2.5
Calcium	mg/L	69.6		69.6	52.3	92.5	52	50	50
Chloride	mg/L	5	250	250	9.9	65.9	9.3	7.3	6.3
Fluoride	mg/L	1	4	2	0.29	0.27	0.3	0.47	0.43
pH (Field Measure)	su				7.6	7.37	7.49	7.52	7.49
Sulfate	mg/L	5	250	250	8.9	315	8.1	8	7.3
Total Dissolved Solids	mg/L	380	500	500	314	828	304	280	290
Appendix IV									
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	0.00066 J	0.00059 J
Arsenic	mg/L	0.009	0.01	0.01	< 0.002	0.004	0.002	0.0017 J	0.0013 J
Barium	mg/L	0.081	2	2	0.043	0.072	0.049	0.043	0.044
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.005	< 0.0005	< 0.000077 U	0.00017 J
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.05	< 0.005	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.000086 U	< 0.000086 U
Fluoride	mg/L	1	4	2	0.29	0.27	0.3	0.47	0.43
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.037	0.069	0.036	0.033	0.032
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	< 0.005	0.105	0.007	--	0.0048 J
Radium-226	pCi/L				0.737	0.664	1.38	0.47	0.311
Radium-228	pCi/L				2.2	1.41	2.45	0.654	0.777
Radium-226/228	pCi/L	5.5	5	5.5	2.94	2.08	3.83	1.12	1.09
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U
Other									
Total Suspended Solids	mg/L				7.4	5.6	1.7	2.5 J	1.9 J
Bicarbonate	mg/L				330	260	330	280 B	290
Carbonate	mg/L				< 10	< 10	< 10	< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				8.9	540	197	190	190
Magnesium	mg/L				16.4	27.9	15.9	17	16
Potassium	mg/L				9.15	4.05	9.03	--	--
Sodium	mg/L				44.4	122	49.7	--	--

Groundwater Sampling Results for MW-17E

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-17E 10/8/2024 N Downgradient Background T	MW-17E 11/13/2024 N Downgradient Background T	MW-17E 12/18/2024 N Downgradient Background T	MW-17E 1/23/2025 N Downgradient Background T	MW-17E 2/27/2025 N Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS					
Field Parameters									
pH	su				8.1	7.82	8.15	8.15	8.07
Specific Conductivity	mS/cm				0.61	0.596	0.603	0.587	0.596
Turbidity	NTU				9	3.15	5.01	3.39	3.98
Dissolved Oxygen	mg/L				< 0.1	0.08	0.07	-0.09	-0.22
Temperature	deg C				12	10.4	9.7	8.3	9.6
Oxidation Reduction Potential	mV				-4.8	101.3	-97.3	-129.9	-45.1
Part 115									
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.05	< 0.005	< 0.0017 U	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	0.08	0.26	0.07	0.05 J	0.05 J
Nickel	mg/L	0.011		0.1	< 0.005	< 0.05	< 0.005	< 0.0015 U	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.005	< 0.0005	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	< 0.015 U	0.0013 J
Appendix III									
Boron	mg/L	3.52		3.52	3.19	2.36	3.09	3.3	3.4
Calcium	mg/L	69.6		69.6	5.98	46.7	6.17	5.2	5.4
Chloride	mg/L	5	250	250	2.7	10.2	2.5	1.5	1.4
Fluoride	mg/L	1	4	2	0.99	0.22	0.97	1.3	1.2
pH (Field Measure)	su				8.1	7.82	8.15	8.15	8.07
Sulfate	mg/L	5	250	250	0.04	10.8	1.1	2	< 0.35 U
Total Dissolved Solids	mg/L	380	500	500	388	316	388	370	360
Appendix IV									
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.009	0.01	0.01	< 0.002	< 0.002	< 0.002	< 0.00075 U	< 0.00075 U
Barium	mg/L	0.081	2	2	0.005	0.042	0.006	0.0051	0.0047 J
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.005	< 0.0005	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.05	< 0.005	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.000086 U	< 0.000086 U
Fluoride	mg/L	1	4	2	0.99	0.22	0.97	1.3	1.2
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.028	0.033	0.027	0.023	0.024
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	< 0.005	0.01	< 0.005	--	< 0.0011 U
Radium-226	pCi/L				0.39	1.06	0.946	< 0.0982 U	< 0.149 U
Radium-228	pCi/L				4.03	1.29	-0.468	< 0.531 U	< 0.63 U
Radium-226/228	pCi/L	5.5	5	5.5	4.42	2.35	0.946	< 0.531 U	< 0.63 U
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U
Other									
Total Suspended Solids	mg/L				1	4.2	1.6	0.5 J	0.7 J
Bicarbonate	mg/L				420	340	410	350 B	330
Carbonate	mg/L				< 10	< 10	< 10	< 2.6 U	21
Hardness (as CaCO3)	mg/L				1.5	340	19	< 33 U	< 33 U
Magnesium	mg/L				1.66	15.1	1.67	1.5	1.6
Potassium	mg/L				4.13	8.38	4.39	--	--
Sodium	mg/L				152	47.4	154	--	--

Groundwater Sampling Results for MW-18A

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-18A 10/8/2024 N Downgradient Background T	MW-18A 11/13/2024 N Downgradient Background T	MW-18A 12/18/2024 N Downgradient Background T	MW-18A 1/23/2025 N Downgradient Background T	MW-18A 2/27/2025 N Downgradient Background T	MW-18A 4/24/2025 N Downgradient Background T	MW-18A 4/24/2025 FD Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS							
Field Parameters											
pH	su				7.6	7.33	7.2	7.16	6.89	7.67	7.67
Specific Conductivity	mS/cm				0.82	0.8	0.899	0.857	0.738	0.809	0.809
Turbidity	NTU				5.9	0.59	3.55	4.84	2.79	2.7	2.7
Dissolved Oxygen	mg/L				< 0.1	0.19	0	-0.03	-0.15	-0.12	-0.12
Temperature	deg C				14	12.6	10.3	9	8.2	9.8	9.8
Oxidation Reduction Potential	mV				-177.9	-120.9	-99.1	-66.7	-61.2	-137.5	-137.5
Part 115											
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.05	< 0.005	< 0.0017 U	< 0.0017 U	< 0.0017 U	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	1.67	0.03	3.36	3	3.4	1.5 B	1.5
Nickel	mg/L	0.021		0.1	< 0.005	< 0.05	< 0.005	< 0.0015 U	< 0.0015 U	< 0.0015 U	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.005	< 0.0005	< 0.000053 U	< 0.000053 U	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.015 U	0.0011 J	< 0.00093 U	< 0.00093 U
Appendix III											
Boron	mg/L	0.48		0.5	0.8	3.47	1.13	1.3	1.2	0.79	0.78
Calcium	mg/L	188		188	88.7	5.69	105	110	110	90	89
Chloride	mg/L	94.377	250	250	79.8	2.2	66.8	66	64	78	79
Fluoride	mg/L	1	4	2	0.5	0.89	0.29	0.59	0.5	0.48	0.51
pH (Field Measure)	su				7.6	7.33	7.2	7.16	6.89	7.67	7.67
Sulfate	mg/L	344	250	344	175	0.9	146	150	150	170	170
Total Dissolved Solids	mg/L	1168.639	500	1168.639	524	392	586	560	580	510	500
Appendix IV											
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	< 0.002	0.005	0.0019 J	0.0017 J	0.00076 J	0.00077 J
Barium	mg/L	0.168	2	2	0.055	0.005	0.077	0.067	0.072	0.042	0.043
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.005	< 0.0005	< 0.000077 U	< 0.000077 U	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.05	< 0.005	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.000086 U	< 0.000086 U	< 0.000086 U	< 0.000086 U
Fluoride	mg/L	1	4	2	0.5	0.89	0.29	0.59	0.5	0.48	0.51
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U	0.00045 J+	< 0.00045 UJ
Lithium	mg/L	0.0397	0.04	0.04	0.072	0.026	0.105	0.11	0.093	0.066	0.063
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.12	< 0.005	0.097	--	0.073	0.11	0.11
Radium-226	pCi/L				0.776	0.451	0.482	< 0.184 U	0.221	0.26	0.226
Radium-228	pCi/L				2.42	0.447	1.12	< 0.626 U	< 0.673 U	< 0.623 UJ	< 0.707 UJ
Radium-226/228	pCi/L	5	5	5	3.19	0.897	1.61	< 0.626 U	< 0.673 U	0.676 J+	< 0.707 UJ
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U	0.0015 J+	< 0.00089 UJ
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U	< 0.00051 U	< 0.00051 U
Other											
Total Suspended Solids	mg/L				2.1	0.8	6.93	6.6	10	1.3 J-	2.7 J+
Bicarbonate	mg/L				160	430	270	240 B	240	130	130
Carbonate	mg/L				< 10	< 10	< 10	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				0.5	30	349	350	360	280	280
Magnesium	mg/L				15.4	1.6	19.9	21	21	14	14
Potassium	mg/L				7.15	4.09	8.22	--	--	--	--
Sodium	mg/L				61.5	152	66.3	--	--	--	--

Groundwater Sampling Results for MW-18B

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-18B 10/8/2024 N Downgradient Background T	MW-18B 11/13/2024 N Downgradient Background T	MW-18B 12/18/2024 N Downgradient Background T	MW-18B 1/23/2025 N Downgradient Background T	MW-18B 2/27/2025 N Downgradient Background T	MW-18B 4/24/2025 N Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS						
Field Parameters										
pH	su				7.4	7.34	7.38	7.32	7.16	7.41
Specific Conductivity	mS/cm				1.2	1.22	1.231	1.247	0.994	1.304
Turbidity	NTU				7.1	1.25	1.92	2.54	1.03	2.8
Dissolved Oxygen	mg/L				< 0.1	0.12	0	-0.05	-0.18	-0.12
Temperature	deg C				13	11.2	9.9	9.9	9.8	11.8
Oxidation Reduction Potential	mV				-132.7	-113.7	-120.8	-99.2	-88.5	-118.4
Part 115										
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.05	< 0.005	< 0.0017 U	< 0.0017 U	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	2.65	2.64	2.9	2.9	2.3	2.6 B
Nickel	mg/L	0.021		0.1	0.007	< 0.05	0.009	0.0077	0.0059	0.0081
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.005	< 0.0005	< 0.000053 U	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.015 U	< 0.00093 U	< 0.00093 U
Appendix III										
Boron	mg/L	0.48		0.5	3.08	1.09	2.63	3.4	2	3.2
Calcium	mg/L	188		188	146	89.8	153	160	130	160
Chloride	mg/L	94.377	250	250	87.5	70.7	86.5	85	81	87
Fluoride	mg/L	1	4	2	0.12	0.35	< 1	0.33	0.34	0.21
pH (Field Measure)	su				7.4	7.34	7.38	7.32	7.16	7.41
Sulfate	mg/L	344	250	344	371	143	383	410	350	410
Total Dissolved Solids	mg/L	1168.639	500	1168.639	874	562	908	890	770	910
Appendix IV										
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	< 0.002	0.005	< 0.002	< 0.00075 U	< 0.00075 U	< 0.00075 U
Barium	mg/L	0.168	2	2	0.055	0.064	0.059	0.055	0.043	0.056
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.005	< 0.0005	< 0.000077 U	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.05	< 0.005	< 0.0012 U	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.000086 U	< 0.000086 U	< 0.000086 U
Fluoride	mg/L	1	4	2	0.12	0.35	< 1	0.33	0.34	0.21
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.132	0.092	0.127	0.13	0.096	0.13
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.14	0.1	0.143	--	0.1	0.14
Radium-226	pCi/L				1.45	1.61	0.992	0.375	0.382	0.561
Radium-228	pCi/L				4.31	1.79	1.87	0.894	< 0.607 U	0.906
Radium-226/228	pCi/L	5	5	5	5.76	3.4	2.86	1.27	0.902	1.47
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U	< 0.00051 U
Other										
Total Suspended Solids	mg/L				4.8	2.2	1.8	5.4	2.7 J	1.9 J
Bicarbonate	mg/L				200	240	180	160 B	160	170
Carbonate	mg/L				< 10	< 10	< 10	< 2.6 U	< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				510	324	494	530	430	540
Magnesium	mg/L				26.3	17.3	28.8	31	25	31
Potassium	mg/L				8.07	7.21	8.66	--	--	--
Sodium	mg/L				81.7	62.2	88.1	--	--	--

Groundwater Sampling Results for MW-18C

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-18C 10/8/2024 N Downgradient Background T	MW-18C 11/13/2024 N Downgradient Background T	MW-18C 12/18/2024 N Downgradient Background T	MW-18C 1/23/2025 N Downgradient Background T	MW-18C 2/27/2025 N Downgradient Background T	MW-18C 4/24/2025 N Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS						
Field Parameters										
pH	su				7.3	7.28	7.34	7.27	7.07	7.35
Specific Conductivity	mS/cm				1.4	1.314	1.56	1.471	1.151	1.285
Turbidity	NTU				8.4	3.41	6.59	3.7	1.34	5.58
Dissolved Oxygen	mg/L				< 0.1	0.4	0	-0.01	-0.18	-0.11
Temperature	deg C				14	11.4	10.1	10.4	10.2	12.4
Oxidation Reduction Potential	mV				-111.7	-109.3	-104.7	-88.7	-76.5	-102
Part 115										
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.05	< 0.005	< 0.0017 U	< 0.0017 U	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	2.71	2.53	4.09	3.6	3.4	2.7 B
Nickel	mg/L	0.011		0.1	0.009	< 0.05	0.012	0.0095	0.01	0.0076
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.005	< 0.0005	< 0.000053 U	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	< 0.015 U	0.00096 J	< 0.00093 U
Appendix III										
Boron	mg/L	3.52		3.52	2.28	2.8	2.49	3.1	3	3
Calcium	mg/L	69.6		69.6	179	143	220	190	200	170
Chloride	mg/L	5	250	250	82.4	86.8	95.2	89	87	70
Fluoride	mg/L	1	4	2	0.11	< 0.5	< 1	0.23	0.19	0.16
pH (Field Measure)	su				7.3	7.28	7.34	7.27	7.07	7.35
Sulfate	mg/L	5	250	250	484	365	582	540	560	420
Total Dissolved Solids	mg/L	380	500	500	1080	914	1260	1000	1100	940
Appendix IV										
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U	0.00067 J
Arsenic	mg/L	0.009	0.01	0.01	0.002	< 0.002	0.002	0.001 J	< 0.00075 U	< 0.00075 U
Barium	mg/L	0.081	2	2	0.06	0.052	0.06	0.054	0.053	0.049
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.005	< 0.0005	< 0.000077 U	< 0.000077 U	0.000096 J
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.05	< 0.005	< 0.0012 U	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.000086 U	< 0.000086 U	0.00015 J
Fluoride	mg/L	1	4	2	0.11	< 0.5	< 1	0.23	0.19	0.16
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.078	0.123	0.086	0.093	0.085	0.093
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	0.088	0.134	0.117	--	0.12	0.1
Radium-226	pCi/L				1.59	1.17	1.32	0.429	0.562	0.684
Radium-228	pCi/L				2.38	2.16	1.24	1.01	0.939	0.768
Radium-226/228	pCi/L	5.5	5	5.5	3.97	3.33	2.57	1.44	1.5	1.45
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U	0.0016 J
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U	< 0.00051 U
Other										
Total Suspended Solids	mg/L				6.3	2.1	6.9	8.7	5.4	4.9
Bicarbonate	mg/L				240	200	220	180 B	180	220
Carbonate	mg/L				< 10	< 10	< 10	< 2.6 U	< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				660	501	772	660	710	600
Magnesium	mg/L				48.1	27.7	57.7	47	53	44
Potassium	mg/L				5.95	7.91	4.22	--	--	--
Sodium	mg/L				78.8	81.3	82.8	--	--	--

Groundwater Sampling Results for MW-18D

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-18D 10/8/2024 N Downgradient Background T	MW-18D 11/13/2024 N Downgradient Background T	MW-18D 12/18/2024 N Downgradient Background T	MW-18D 1/23/2025 N Downgradient Background T	MW-18D 2/27/2025 N Downgradient Background T	MW-18D 4/24/2025 N Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS						
Field Parameters										
pH	su				7.7	7.84	7.91	7.93	7.71	8.01
Specific Conductivity	mS/cm				1.1	0.955	1.058	0.946	0.824	0.9
Turbidity	NTU				7.5	2.98	7.63	3.08	2.83	4.07
Dissolved Oxygen	mg/L				< 0.1	0.58	0	0.03	-0.14	-0.12
Temperature	deg C				14	11.6	9.7	9.6	10.5	13
Oxidation Reduction Potential	mV				-170.1	-166.3	-158.8	-158.2	-156.4	-176.4
Part 115										
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.05	< 0.005	< 0.0017 U	< 0.0017 U	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	1.22	3.73	1.88	1.2	1.7	1.1 B
Nickel	mg/L	0.011		0.1	0.005	< 0.05	0.005	0.0032	0.004	0.0027
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.005	< 0.0005	< 0.000053 U	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.00082 U	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	< 0.015 U	0.0015 J	< 0.00093 U
Appendix III										
Boron	mg/L	3.52		3.52	3.58	2.66	3.43	3.8	3.9	3.7
Calcium	mg/L	69.6		69.6	82.4	202	89.1	61	77	55
Chloride	mg/L	5	250	250	48.5	94.1	45.2	36	37	26
Fluoride	mg/L	1	4	2	0.55	< 0.5	0.66	1	0.91	1
pH (Field Measure)	su				7.7	7.84	7.91	7.93	7.71	8.01
Sulfate	mg/L	5	250	250	252	601	224	190	200	140
Total Dissolved Solids	mg/L	380	500	500	752	1260	714	600	620	560
Appendix IV										
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.00057 U	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.009	0.01	0.01	< 0.002	< 0.002	< 0.002	< 0.00075 U	< 0.00075 U	< 0.00075 U
Barium	mg/L	0.081	2	2	0.038	0.056	0.032	0.023	0.028	0.022
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.00027 U	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.005	< 0.0005	< 0.000077 U	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.05	< 0.005	< 0.0012 U	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.000086 U	0.00017 JB	< 0.000086 U
Fluoride	mg/L	1	4	2	0.55	< 0.5	0.66	1	0.91	1
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.00045 U	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.088	0.087	0.092	0.067	0.077	0.059
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	0.00013 J	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	0.081	0.116	0.087	--	0.069	0.044
Radium-226	pCi/L				1.03	1.06	1.17	0.26	0.341	0.206
Radium-228	pCi/L				0.736	4.11	2.42	0.739	< 0.629 U	< 0.645 U
Radium-226/228	pCi/L	5.5	5	5.5	1.76	5.17	3.59	0.999	< 0.629 U	0.683
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.00089 U	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	< 0.00051 U	< 0.00051 U
Other										
Total Suspended Solids	mg/L				6.1	2.6	5	2.3 J	1.3 J	1.4 J
Bicarbonate	mg/L				330	220	330	290 B	290	310
Carbonate	mg/L				< 10	< 10	< 10	< 2.6 U	< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				320	745	291	200	250	180
Magnesium	mg/L				15.5	53.9	16.8	13	15	9.9
Potassium	mg/L				6.82	3.85	6.28	--	--	--
Sodium	mg/L				147	82.1	113	--	--	--

Groundwater Sampling Results for MW-19A

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-19A 5/12/2025 N Downgradient Background T	MW-19A 5/12/2025 FD Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS		
Field Parameters						
pH	su				6.84	6.84
Specific Conductivity	mS/cm				1.483	1.483
Turbidity	NTU				1.63	1.63
Dissolved Oxygen	mg/L				0.11	0.11
Temperature	deg C				11	11
Oxidation Reduction Potential	mV				-307.1	-307.1
Part 115						
Copper	mg/L	0.005	1.3	1	< 0.0017 U	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	4.5	4.5
Nickel	mg/L	0.021		0.1	0.011	0.01
Silver	mg/L	0.0005	0.1	0.098	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.036	5	5	0.0025 J+	0.0018 J-
Appendix III						
Boron	mg/L	0.48		0.5	0.23	0.24
Calcium	mg/L	188		188	200	190
Chloride	mg/L	94.377	250	250	120	120
Fluoride	mg/L	1	4	2	0.13	0.12
pH (Field Measure)	su				6.84	6.84
Sulfate	mg/L	344	250	344	290	280
Total Dissolved Solids	mg/L	1168.639	500	1168.639	930	970
Appendix IV						
Antimony	mg/L	0.005	0.006	0.006	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.0027 J	0.0026 J
Barium	mg/L	0.168	2	2	0.11	0.11
Beryllium	mg/L	0.001	0.004	0.004	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	0.000081 J+	< 0.000077 UJ
Chromium	mg/L	0.005	0.1	0.1	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	0.00054 J	0.00049 J
Fluoride	mg/L	1	4	2	0.13	0.12
Lead	mg/L	0.003	0.015	0.004	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.013	0.013
Mercury	mg/L	0.0002	0.002	0.002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.003 J	0.0025 J
Radium-226	pCi/L				< 0.36 UJ	0.402 J+
Radium-228	pCi/L				< 0.507 U	< 0.541 U
Radium-226/228	pCi/L	5	5	5	0.554 J-	0.866 J+
Selenium	mg/L	0.005	0.05	0.05	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.00051 U	< 0.00051 U
Other						
Total Suspended Solids	mg/L				7 J-	8.8 J+
Bicarbonate	mg/L				390 B	390 B
Carbonate	mg/L				< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				750	730
Magnesium	mg/L				63	61

Groundwater Sampling Results for MW-19B

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-19B 5/12/2025 N Downgradient Background T
Constituent	Unit	BTV(1)	MCL	State GPS	
Field Parameters					
pH	su				7.2
Specific Conductivity	mS/cm				1.385
Turbidity	NTU				2.28
Dissolved Oxygen	mg/L				0.11
Temperature	deg C				11.8
Oxidation Reduction Potential	mV				-104.9
Part 115					
Copper	mg/L	0.005	1.3	1	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	2.1
Nickel	mg/L	0.021		0.1	0.015
Silver	mg/L	0.0005	0.1	0.098	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.00082 U
Zinc	mg/L	0.036	5	5	< 0.00093 U
Appendix III					
Boron	mg/L	0.48		0.5	0.55
Calcium	mg/L	188		188	180
Chloride	mg/L	94.377	250	250	67
Fluoride	mg/L	1	4	2	0.18
pH (Field Measure)	su				7.2
Sulfate	mg/L	344	250	344	310
Total Dissolved Solids	mg/L	1168.639	500	1168.639	940
Appendix IV					
Antimony	mg/L	0.005	0.006	0.006	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.0036 J
Barium	mg/L	0.168	2	2	0.057
Beryllium	mg/L	0.001	0.004	0.004	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	0.00018 J
Chromium	mg/L	0.005	0.1	0.1	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	0.00012 J
Fluoride	mg/L	1	4	2	0.18
Lead	mg/L	0.003	0.015	0.004	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.017
Mercury	mg/L	0.0002	0.002	0.002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.0029 J
Radium-226	pCi/L				< 0.352 U
Radium-228	pCi/L				0.495
Radium-226/228	pCi/L	5	5	5	0.807
Selenium	mg/L	0.005	0.05	0.05	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	0.00057 J
Other					
Total Suspended Solids	mg/L				4.8
Bicarbonate	mg/L				420 B
Carbonate	mg/L				< 2.6 U
Hardness (as CaCO3)	mg/L				730
Magnesium	mg/L				66

Groundwater Sampling Results for MW-19C

LBWL Erickson Station

Sample Location: MW-19C					
Sample Date: 5/12/2025					
Sample Type: N					
Gradient: Downgradient					
Sampling Phase: Background					
Fraction: T					
Constituent	Unit	BTV(1)	MCL	State GPS	
Field Parameters					
pH	su				7.32
Specific Conductivity	mS/cm				0.596
Turbidity	NTU				9.3
Dissolved Oxygen	mg/L				0.06
Temperature	deg C				13.2
Oxidation Reduction Potential	mV				-142.3
Part 115					
Copper	mg/L	0.005	1.3	1	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	0.8
Nickel	mg/L	0.011		0.1	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.00082 U
Zinc	mg/L	0.042	5	5	0.0011 J
Appendix III					
Boron	mg/L	3.52		3.52	0.64
Calcium	mg/L	69.6		69.6	67
Chloride	mg/L	5	250	250	2
Fluoride	mg/L	1	4	2	0.35
pH (Field Measure)	su				7.32
Sulfate	mg/L	5	250	250	15
Total Dissolved Solids	mg/L	380	500	500	300
Appendix IV					
Antimony	mg/L	0.005	0.006	0.006	< 0.00057 U
Arsenic	mg/L	0.009	0.01	0.01	< 0.00075 U
Barium	mg/L	0.081	2	2	0.054
Beryllium	mg/L	0.001	0.004	0.004	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	0.00013 J
Fluoride	mg/L	1	4	2	0.35
Lead	mg/L	0.003	0.015	0.004	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.026
Mercury	mg/L	0.0002	0.002	0.002	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	0.002 J
Radium-226	pCi/L				0.581
Radium-228	pCi/L				< 0.625 U
Radium-226/228	pCi/L	5.5	5	5.5	0.902
Selenium	mg/L	0.005	0.05	0.05	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.00051 U
Other					
Total Suspended Solids	mg/L				8.2
Bicarbonate	mg/L				320 B
Carbonate	mg/L				< 2.6 U
Hardness (as CaCO3)	mg/L				260
Magnesium	mg/L				23

Groundwater Sampling Results for MW-19D

LBWL Erickson Station

Sample Location:					MW-19D	MW-19D
Sample Date:					5/12/2025	5/12/2025
Sample Type:					N	N
Gradient:					Downgradient	Downgradient
Sampling Phase:					Background	Background
Fraction:					T	D
Constituent	Unit	BTV(1)	MCL	State GPS		
Field Parameters						
pH	su				8.61	--
Specific Conductivity	mS/cm				0.665	--
Turbidity	NTU				97.65	--
Dissolved Oxygen	mg/L				0.27	--
Temperature	deg C				14.4	--
Oxidation Reduction Potential	mV				-9.5	--
Part 115						
Copper	mg/L	0.005	1.3	1	< 0.0017 U	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	3.7	0.32
Nickel	mg/L	0.011		0.1	0.0047	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	0.0053	0.0011 J
Zinc	mg/L	0.042	5	5	0.0099	0.0031 J
Appendix III						
Boron	mg/L	3.52		3.52	3.2	3.1
Calcium	mg/L	69.6		69.6	6.4	3.8
Chloride	mg/L	5	250	250	7.7	--
Fluoride	mg/L	1	4	2	1.5	--
pH (Field Measure)	su				8.61	--
Sulfate	mg/L	5	250	250	3.1	--
Total Dissolved Solids	mg/L	380	500	500	510	--
Appendix IV						
Antimony	mg/L	0.005	0.006	0.006	< 0.00057 U	0.00063 J
Arsenic	mg/L	0.009	0.01	0.01	0.0021 J	0.0017 J
Barium	mg/L	0.081	2	2	0.034	0.01
Beryllium	mg/L	0.001	0.004	0.004	0.00073 J	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	0.0049 J	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	0.0019	0.00034 J
Fluoride	mg/L	1	4	2	1.5	--
Lead	mg/L	0.003	0.015	0.004	0.0043	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.025	0.019
Mercury	mg/L	0.0002	0.002	0.002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	0.0015 J	0.0016 J
Radium-226	pCi/L				< 0.747 U	--
Radium-228	pCi/L				< 2.03 UG	--
Radium-226/228	pCi/L	5.5	5	5.5	< 2.03 U	--
Selenium	mg/L	0.005	0.05	0.05	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.00051 U	< 0.00051 U
Other						
Total Suspended Solids	mg/L				36	--
Bicarbonate	mg/L				330 B	--
Carbonate	mg/L				52	--
Hardness (as CaCO3)	mg/L				< 33 U	--
Magnesium	mg/L				3.1	1.2

Groundwater Sampling Results for MW-100A

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-100A 6/5/2023 N Downgradient Background T	MW-100A 7/10/2023 N Downgradient Background T	MW-100A 8/14/2023 N Downgradient Background T	MW-100A 9/18/2023 N Downgradient Background T	MW-100A 10/23/2023 N Downgradient Background T	MW-100A 11/27/2023 N Downgradient Background T	MW-100A 1/3/2024 N Downgradient Background T	MW-100A 2/7/2024 N Downgradient Background T	MW-100A 8/7/2024 N Downgradient AM T	MW-100A 2/5/2025 N Downgradient AM T	
Constituent	Unit	BTV(1)	MCL	State GPS											
Field Parameters															
pH	su				7.29	7.21	7.31	7.28	7.34	7.08	7.36	7.4	7.22	7.19	
Specific Conductivity	mS/cm				0.75	0.766	0.728	0.719	0.725	0.68	0.593	0.665	0.672	0.65	
Turbidity	NTU				3.52	7.95	0.65	4.21	7.35	3.32	4.45	6.3	6.81	3.31	
Dissolved Oxygen	mg/L				4.15	1.31	1.15	0.98	0.45	0.39	0.41	0.51	1.02	2.42	
Temperature	deg C				14.2	17.2	14.6	16.8	14.9	10.2	11.2	10	14.7	11	
Oxidation Reduction Potential	mV				60.9	-55.8	-130.6	-98.1	-117.7	-98.9	-125.2	-74.9	-8.9	-40.4	
Part 115															
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U	
Iron	mg/L	23.5	0.3	23.5	0.63	1.25	3.75	3.59	3.04	2.88	2.51	2.59	2.55	2.3	
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0015 U	
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U	
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U	
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005	0.0028 J	
Appendix III															
Boron	mg/L	0.48		0.5	0.04	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.05	< 0.057 U	
Calcium	mg/L	188		188	92.3	95.3	93	94	92.8	92.1	88.6	90.9	92.1	89	
Chloride	mg/L	94.377	250	250	10	10	10	10	10	10	10.3	10.6	10.3	10	
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	0.22	< 1	0.4	0.57	
pH (Field Measure)	su				7.29	7.21	7.31	7.28	7.34	7.08	7.36	7.4	7.22	7.19	
Sulfate	mg/L	344	250	344	35	38	28	22	21	16.2	17.1	21.7	21.2	25	
Total Dissolved Solids	mg/L	1168.639	500	1168.639	418	434	424	414	416	402	408	410	414	360	
Appendix IV															
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U	
Arsenic	mg/L	0.021	0.01	0.021	0.009	0.01	0.015	0.017	0.016	0.014	0.015	0.018	0.014	0.012	
Barium	mg/L	0.168	2	2	0.206	0.202	0.206	0.207	0.201	0.199	0.189	0.2	0.189	0.19	
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U	
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U	
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U	
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00033 J	
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	0.22	< 1	0.4	0.57	
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U	
Lithium	mg/L	0.0397	0.04	0.04	0.017	0.018	0.019	0.02	0.018	0.016	0.014	0.014	0.012	0.011	
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U	
Molybdenum	mg/L	0.024	0.1	0.1	0.012	0.012	0.012	0.013	0.011	0.01	0.009	0.008	0.008	0.0069	
Radium-226	pCi/L				0.869	0.47	1.14 J+	0.32 J+	-0.164 J+	1.09 J+	0.0203	0.57	0.328	0.253	
Radium-228	pCi/L				1.64	0.716	0.4	0.0819	0.527	0.0586	0.391	0.529	1.86	< 0.468 U	
Radium-226/228	pCi/L	5	5	5	2.5	0.857	1.54	0.402	0.527	1.15	0.411	1.1	2.19	0.611	
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U	
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U	
Other															
Total Suspended Solids	mg/L				< 3	25	7.5	7.4	4.9	8.6	8	5.3	5.6	4.6	
Bicarbonate	mg/L				450	430	460	440	450	410	430	431	440	360	
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.6 U	
Hardness (as CaCO3)	mg/L				390	393	396	394	398	398	368	400	388	380	
Magnesium	mg/L				38.4	40.3	40	39	38.9	39.9	38.2	36	38.3	39	
Potassium	mg/L				2.35	2.62	2.27	2.23	2.16	2.19	2.18	1.83	1.94	--	
Sodium	mg/L				12.6	11.8	11.3	11.6	11	11.3	11.1	10.4	11	--	

Groundwater Sampling Results for MW-100B

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-100B 6/5/2023 N Downgradient Background T	MW-100B 6/5/2023 FD Downgradient Background T	MW-100B 7/10/2023 N Downgradient Background T	MW-100B 7/10/2023 FD Downgradient Background T	MW-100B 8/14/2023 N Downgradient Background T	MW-100B 8/14/2023 FD Downgradient Background T	MW-100B 9/18/2023 N Downgradient Background T	MW-100B 9/18/2023 FD Downgradient Background T	MW-100B 10/23/2023 N Downgradient Background T	MW-100B 11/27/2023 N Downgradient Background T	MW-100B 1/3/2024 N Downgradient Background T	MW-100B 2/7/2024 N Downgradient Background T	MW-100B 8/7/2024 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.34	7.34	7.33	7.33	7.4	7.4	7.34	7.34	7.44	7.4	7.58	7.62	7.41
Specific Conductivity	mS/cm				0.799	0.799	0.805	0.805	0.776	0.776	0.745	0.745	0.752	0.713	0.759	0.737	0.73
Turbidity	NTU				4.02	4.02	4.15	4.15	4.15	4.15	0.81	0.81	5.16	5.01	0.95	4.18	2.42
Dissolved Oxygen	mg/L				0.03	0.03	0.08	0.08	0.19	0.19	0	0	0	0	0	0.02	0.26
Temperature	deg C				13.8	13.8	13.9	13.9	14.2	14.2	12.9	12.9	12.1	10.6	11.5	11.1	13.6
Oxidation Reduction Potential	mV				-129.9	-129.9	-145.9	-145.9	-176.8	-176.8	-149.9	-149.9	-154.8	-141.7	-157	-132.9	-118.3
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	23.5	0.3	23.5	1.77	1.79	3.54	3.43	2.89	2.88	2.34	2.36	2.33	2.35	2.43	2.4	2.85
Nickel	mg/L	0.021		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.036	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	0.48		0.5	0.21	0.23	0.23	0.23	0.25	0.25	0.25	0.24	0.26	0.29	0.26	0.26	0.22
Calcium	mg/L	188		188	108	106	102	101	98	99.2	97.8	100	95.9	94.5	94.2	96.8	102
Chloride	mg/L	94.377	250	250	22	22	23	23	25	25	25	25	24	24	23.8	22.3	19
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.15	< 1	< 1	0.3
pH (Field Measure)	su				7.34	7.34	7.33	7.33	7.4	7.4	7.34	7.34	7.44	7.4	7.58	7.62	7.41
Sulfate	mg/L	344	250	344	136	135	126	126	116	116	110	110	108	105	112	107	118
Total Dissolved Solids	mg/L	1168.639	500	1168.639	538	534	534	526	508	510	492	496	490	482	490	496	520
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.021	0.01	0.021	0.009	0.008	0.01	0.01	0.011	0.01	0.011	0.012	0.01	0.01	0.011	0.011	0.01
Barium	mg/L	0.168	2	2	0.164	0.163	0.159	0.156	0.153	0.154	0.154	0.159	0.145	0.147	0.142	0.147	0.143
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.15	< 1	< 1	0.3
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.0397	0.04	0.04	0.017	0.018	0.016	0.016	0.017	0.017	0.019	0.017	0.017	0.018	0.018	0.017	0.018
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.024	0.1	0.1	0.009	0.008	0.011	0.011	0.01	0.01	0.009	0.008	0.009	0.009	0.008	0.009	0.006
Radium-226	pCi/L				0.549 UJ	0.295 UJ	0.576 UJ	0.395 UJ	1.31 J+	0.2 J-	0.983 J+	0.188 J	0.732 J+	0.868 J+	0.201	1.03	0.532
Radium-228	pCi/L				1.61 J+	1.5 J-	1.52 J+	1.17 J-	0.682	0.96	0.0316	0.832 J+	0.613	0.953	0.293	0.482	-0.297
Radium-226/228	pCi/L	5	5	5	2.16 J	1.8 J	1.62 J+	1.23 J-	1.99 J+	1.16 J-	1.01	1.02	1.35	1.82	0.494	1.51	0.532
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				3	2.3	7.1	6.7	3	3.4	3.7	4.7	4.1	2.5	4.5	4.9	2.4
Bicarbonate	mg/L				350	360	440	350	360	360	320	330	330	310	330	339	360
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				410	410	397	393	364	364	374	378	364	369	376	367	398
Magnesium	mg/L				35.7	38	35	34.9	35.8	35.5	32.7	33.5	33.2	32.5	32.3	29.4	35.7
Potassium	mg/L				3.34	3.35	3.5	3.54	3.46	3.54	3.51	3.61	3.69	3.76	3.59	3.46	3.45
Sodium	mg/L				23.2	23	26.9	27.1	24.8	24.9	25.9	24.8	27.4	30.3	27.1	27.1	30.8

Groundwater Sampling Results for MW-100B

LBWL Erickson Station

Sample Location:					MW-100B
Sample Date:					2/5/2025
Sample Type:					N
Gradient:					Downgradient
Sampling Phase:					AM
Fraction:					T
Constituent	Unit	BTV(1)	MCL	State GPS	
Field Parameters					
pH	su				7.46
Specific Conductivity	mS/cm				0.559
Turbidity	NTU				4.74
Dissolved Oxygen	mg/L				-0.16
Temperature	deg C				10.9
Oxidation Reduction Potential	mV				-147.1
Part 115					
Copper	mg/L	0.005	1.3	1	< 0.0017 U
Iron	mg/L	23.5	0.3	23.5	2.2
Nickel	mg/L	0.021		0.1	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.00082 U
Zinc	mg/L	0.036	5	5	0.0019 J
Appendix III					
Boron	mg/L	0.48		0.5	0.3
Calcium	mg/L	188		188	89
Chloride	mg/L	94.377	250	250	19
Fluoride	mg/L	1	4	2	0.44
pH (Field Measure)	su				7.46
Sulfate	mg/L	344	250	344	110
Total Dissolved Solids	mg/L	1168.639	500	1168.639	440
Appendix IV					
Antimony	mg/L	0.005	0.006	0.006	< 0.00057 U
Arsenic	mg/L	0.021	0.01	0.021	0.0073
Barium	mg/L	0.168	2	2	0.14
Beryllium	mg/L	0.001	0.004	0.004	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.000086 U
Fluoride	mg/L	1	4	2	0.44
Lead	mg/L	0.003	0.015	0.004	< 0.00045 U
Lithium	mg/L	0.0397	0.04	0.04	0.019
Mercury	mg/L	0.0002	0.002	0.002	< 0.00013 U
Molybdenum	mg/L	0.024	0.1	0.1	0.0065
Radium-226	pCi/L				0.331
Radium-228	pCi/L				< 0.62 U
Radium-226/228	pCi/L	5	5	5	< 0.62 U
Selenium	mg/L	0.005	0.05	0.05	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.00051 U
Other					
Total Suspended Solids	mg/L				5.6 J
Bicarbonate	mg/L				270
Carbonate	mg/L				< 2.6 U
Hardness (as CaCO3)	mg/L				350
Magnesium	mg/L				32
Potassium	mg/L				--
Sodium	mg/L				--

Groundwater Sampling Results for MW-100C

LBWL Erickson Station

Sample Location:					MW-100C	MW-100C	MW-100C	MW-100C	MW-100C	MW-100C	MW-100C	MW-100C	MW-100C	MW-100C	MW-100C	MW-100C	MW-100C
Sample Date:					6/5/2023	7/10/2023	8/14/2023	9/18/2023	10/23/2023	10/23/2023	11/27/2023	11/27/2023	1/3/2024	1/3/2024	2/7/2024	2/7/2024	8/7/2024
Sample Type:					N	N	N	N	N	FD	N	FD	N	FD	N	FD	N
Gradient:					Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient
Sampling Phase:					Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	Background	AM
Fraction:					T	T	T	T	T	T	T	T	T	T	T	T	T
Constituent	Unit	BTV(1)	MCL	State GPS													
Field Parameters																	
pH	su				7.54	7.3	7.34	7.23	7.29	7.29	7.27	7.27	7.43	7.43	7.46	7.46	7.39
Specific Conductivity	mS/cm				0.544	0.539	0.537	0.525	0.538	0.538	0.523	0.523	0.533	0.533	0.52	0.52	0.512
Turbidity	NTU				4.68	4.02	5.89	0.81	5.15	5.15	4.15	4.15	1.44	1.44	5.78	5.78	0.02
Dissolved Oxygen	mg/L				0.02	0.06	0.23	0.01	0	0	0	0	0	0	0	0	0.23
Temperature	deg C				13.5	13.7	14	12.8	12.3	12.3	10.2	10.2	11.3	11.3	11.3	11.3	14.1
Oxidation Reduction Potential	mV				-95.6	-131.4	-129.7	-113.3	-115.8	-115.8	-107.2	-107.2	-133.5	-133.5	-89.9	-89.9	-112.5
Part 115																	
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Iron	mg/L	3.04	0.3	3.04	0.31	1	0.97	0.76	0.66	0.66	0.64	0.66	0.63	0.61	0.59	0.58	0.69
Nickel	mg/L	0.011		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Appendix III																	
Boron	mg/L	3.52		3.52	1.54	1.68	1.81	1.83	1.76	1.76	1.82	1.84	1.79	1.71	1.87	1.81	1.91
Calcium	mg/L	69.6		69.6	55.9	56.3	55.2	59.8	61.2	61.5	61.1	60.7	60.3	58.4	58.7	59.5	59.4
Chloride	mg/L	5	250	250	14	10	8	6	5	5	5.01	5.04	4.8	4.8	4.7	4.8	4.6
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	0.13	< 1	< 1	< 1	< 1	< 1	0.3
pH (Field Measure)	su				7.54	7.3	7.34	7.23	7.29	7.29	7.27	7.27	7.43	7.43	7.46	7.46	7.39
Sulfate	mg/L	5	250	250	27	14	13	8	7	6	5.59	5.66	5.4	4.9	5.8	5.6	6
Total Dissolved Solids	mg/L	380	500	500	310	300	314	302	302	298	306	302	282	298	300	298	298
Appendix IV																	
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/L	0.009	0.01	0.01	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Barium	mg/L	0.081	2	2	0.067	0.082	0.082	0.092	0.082	0.083	0.081	0.085	0.073	0.074	0.075	0.073	0.062
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	< 1	0.13	< 1	< 1	< 1	< 1	< 1	0.3
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Lithium	mg/L	0.051	0.04	0.051	0.029	0.028	0.031	0.035	0.034	0.032	0.032	0.032	0.033	0.032	0.033	0.032	0.033
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Molybdenum	mg/L	0.011	0.1	0.1	0.009	0.009	0.007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Radium-226	pCi/L				0.677	0.52	1.2	0.581 J+	0.542 J	1.07 J+	1.69 J+	0.45 J	0.327 J+	0.158 J-	1.21 J+	0.682 J-	0.377
Radium-228	pCi/L				-0.307	0.827	-0.958	0.276	0.836	1.02	-0.293 J-	0.906 J+	0.198	0.211	0.346 J-	2.56 J+	1.2 J+
Radium-226/228	pCi/L	5.5	5	5.5	0.677	0.977	1.2	0.857	1.38	2.09	1.69	1.36	0.525	0.369	1.56 J-	3.25 J+	1.58 J+
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Other																	
Total Suspended Solids	mg/L				1.8	1.4	8.9	2.8	< 3	< 3	1.2 J+	< 3 UJ	1.4	1.4	< 3	< 3	0.9
Bicarbonate	mg/L				310	100	340	340	340	340	330	340	350	350	350	354	360
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hardness (as CaCO3)	mg/L				200	204	218	232	232	238	237	237	233	233	238	230	218
Magnesium	mg/L				18.1	18.1	18.5	19.1	19.5	19.2	19.3	19.7	19.8	20.2	17.3	17.5	19
Potassium	mg/L				6.4	6.59	6.49	6.67	6.83	6.9	6.56	6.68	6.98	6.99	6.12	6.03	6.85
Sodium	mg/L				44.1	38.2	36.4	30.5	29.2	29.1	28.3	28.2	29.5	29	25.7	26	32.7

Groundwater Sampling Results for MW-100C

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-100C 8/7/2024 FD Downgradient AM T	MW-100C 2/5/2025 N Downgradient AM T	MW-100C 2/5/2025 FD Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS			
Field Parameters							
pH	su				7.39	7.32	7.32
Specific Conductivity	mS/cm				0.512	0.433	0.433
Turbidity	NTU				0.02	8.44	8.44
Dissolved Oxygen	mg/L				0.23	-0.13	-0.13
Temperature	deg C				14.1	11.7	11.7
Oxidation Reduction Potential	mV				-112.5	-108.9	-108.9
Part 115							
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.0017 U	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	0.71	0.58	0.61
Nickel	mg/L	0.011		0.1	< 0.005	< 0.0015 U	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.000053 U	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.00082 U	< 0.00082 U
Zinc	mg/L	0.042	5	5	< 0.005	0.0014 J+	< 0.00093 UJ
Appendix III							
Boron	mg/L	3.52		3.52	1.9	1.9	1.9
Calcium	mg/L	69.6		69.6	59.2	59	60
Chloride	mg/L	5	250	250	4.6	2.8	2.7
Fluoride	mg/L	1	4	2	0.3	0.43	0.43
pH (Field Measure)	su				7.39	7.32	7.32
Sulfate	mg/L	5	250	250	6.1	4.2	4.3
Total Dissolved Solids	mg/L	380	500	500	300	280	270
Appendix IV							
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.00057 U	< 0.00057 U
Arsenic	mg/L	0.009	0.01	0.01	< 0.002	< 0.00075 U	< 0.00075 U
Barium	mg/L	0.081	2	2	0.06	0.062	0.064
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.00027 U	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.000077 U	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.0012 U	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.000086 U	< 0.000086 U
Fluoride	mg/L	1	4	2	0.3	0.43	0.43
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.00045 U	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.031	0.032	0.032
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.00013 U	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	< 0.005	0.0011 J	0.0011 J
Radium-226	pCi/L				0.369	0.268	0.248
Radium-228	pCi/L				0.745 J-	< 0.621 UJ	< 0.483 UJ
Radium-226/228	pCi/L	5.5	5	5.5	1.11 J-	0.851 J+	< 0.483 UJ
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.00089 U	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.00051 U	< 0.00051 U
Other							
Total Suspended Solids	mg/L				1.2	1.2 J	1.1 J
Bicarbonate	mg/L				350	290	290
Carbonate	mg/L				< 10	< 2.6 U	< 2.6 U
Hardness (as CaCO3)	mg/L				216	230	230
Magnesium	mg/L				18.8	20	20
Potassium	mg/L				6.66	--	--
Sodium	mg/L				33.4	--	--

Groundwater Sampling Results for MW-100D

LBWL Erickson Station

Sample Location: Sample Date: Sample Type: Gradient: Sampling Phase: Fraction:					MW-100D 6/5/2023 N Downgradient Background T	MW-100D 7/10/2023 N Downgradient Background T	MW-100D 8/14/2023 N Downgradient Background T	MW-100D 9/18/2023 N Downgradient Background T	MW-100D 10/23/2023 N Downgradient Background T	MW-100D 11/27/2023 N Downgradient Background T	MW-100D 1/3/2024 N Downgradient Background T	MW-100D 2/7/2024 N Downgradient Background T	MW-100D 8/7/2024 N Downgradient AM T	MW-100D 2/5/2025 N Downgradient AM T
Constituent	Unit	BTV(1)	MCL	State GPS										
Field Parameters														
pH	su				8.04	7.82	7.9	7.58	7.59	8.01	8.22	7.74	7.21	7.41
Specific Conductivity	mS/cm				0.575	0.585	0.598	0.597	0.6	0.592	0.597	0.737	0.927	0.662
Turbidity	NTU				8.78	8.15	7.95	5.58	5.05	4.95	3.08	6.19	6.9	8.62
Dissolved Oxygen	mg/L				0.01	0.05	0.15	0.02	0.01	0	0	0.02	0.23	-0.18
Temperature	deg C				13.8	14.3	14.5	13	13	9.9	11.1	11.6	14.2	11.4
Oxidation Reduction Potential	mV				-73.2	-90.1	-184.8	-201.5	-182.6	-163.3	-209.3	-81	-97.9	-132
Part 115														
Copper	mg/L	0.005	1.3	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017 U
Iron	mg/L	3.04	0.3	3.04	0.24	0.64	0.45	0.38	0.15	0.12	0.12	0.13	0.77	0.3
Nickel	mg/L	0.011		0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0015 U
Silver	mg/L	0.0005	0.1	0.098	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000053 U
Vanadium	mg/L	0.005		0.062	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00082 U
Zinc	mg/L	0.042	5	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.002 J
Appendix III														
Boron	mg/L	3.52		3.52	3.45	3.23	3.39	3.35	3.22	3.37	3.19	2.84	1.89	2.7
Calcium	mg/L	69.6		69.6	7.77	7.18	6.27	6.21	5.86	5.57	5.26	20.2	56.5	21
Chloride	mg/L	5	250	250	< 5	< 5	5	< 5	< 5	4.2	4.2	9.1	13.1	6.2
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.5	0.49	0.3	0.4	0.85
pH (Field Measure)	su				8.04	7.82	7.9	7.58	7.59	8.01	8.22	7.74	7.21	7.41
Sulfate	mg/L	5	250	250	< 5	6	14	11	10	9.17	9.8	31	60.5	33
Total Dissolved Solids	mg/L	380	500	500	366	392	414	396	390	388	372	468	584	430
Appendix IV														
Antimony	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00057 U
Arsenic	mg/L	0.009	0.01	0.01	< 0.002	< 0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.0016 J
Barium	mg/L	0.081	2	2	0.01	0.011	0.01	0.01	0.008	0.008	0.007	0.012	0.019	0.0098
Beryllium	mg/L	0.001	0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00027 U
Cadmium	mg/L	0.0005	0.005	0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.000077 U
Chromium	mg/L	0.005	0.1	0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0012 U
Cobalt	mg/L	0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.000086 U
Fluoride	mg/L	1	4	2	< 1	< 1	< 1	< 1	< 1	0.5	0.49	0.3	0.4	0.85
Lead	mg/L	0.003	0.015	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.00045 U
Lithium	mg/L	0.051	0.04	0.051	0.031	0.016	0.016	0.017	0.017	0.018	0.018	0.02	0.016	0.018
Mercury	mg/L	0.0002	0.002	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00013 U
Molybdenum	mg/L	0.011	0.1	0.1	< 0.005	0.01	0.012	0.01	0.009	0.008	0.008	0.007	0.007	0.0056
Radium-226	pCi/L				0.509	0.426	1.32	0.535 J+	0.649 J+	0.893 J+	0.0752	0.515	0.153	< 0.122 U
Radium-228	pCi/L				4.56	0.921	0.135	0.261	0.947	-0.914	0.402	0.00918	1.22	< 0.593 U
Radium-226/228	pCi/L	5.5	5	5.5	5.06	1.01	1.46	0.796	1.6	0.893	0.477	0.524	1.37	< 0.593 U
Selenium	mg/L	0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00089 U
Thallium	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00051 U
Other														
Total Suspended Solids	mg/L				2.7	2.7	2.2	2	< 3	< 3	< 3	1.8	9.5	2.2 J
Bicarbonate	mg/L				390	390	390	380	390	370	390	443	550	360
Carbonate	mg/L				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2.6 U
Hardness (as CaCO3)	mg/L				30	32	19	17	19	49	28	69	178	68
Magnesium	mg/L				2.03	1.81	1.47	1.46	1.28	1.27	1.27	3.68	9.5	3.9
Potassium	mg/L				4.92	4.62	4.22	4.48	4.35	4.03	4.18	4	5.37	--
Sodium	mg/L				147	152	151	158	148	151	134	136	160	--

Appendix C

Lab Reports and Data Validation Reports

ANALYTICAL REPORT

PREPARED FOR

Attn: Jennifer Caporale
Lansing Board of Water & Light
1110 South Pennsylvania
Lansing, Michigan 48901

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JOB DESCRIPTION

Erickson Projects

JOB NUMBER

240-218141-1

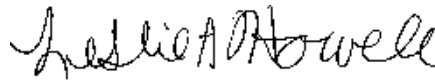
Eurofins Cleveland

Job Notes

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Authorization



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Revision 1

Authorized for release by
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Definitions/Glossary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Lansing Board of Water & Light
Project: Erickson Projects

Job ID: 240-218141-1

Job ID: 240-218141-1

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Job Narrative 240-218141-1

REVISION

The report being provided is a revision of the original report sent on 2/25/2025. The report (revision 1) is being revised due to Trip Blank sample ID should be 11 instead of 01..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/25/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.2°C, 0.2°C, 0.4°C and 0.5°C.

Metals

Method 200.8_CWA: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: L501182-01 MW17A (240-218141-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gas Flow Proportional Counter

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.

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Method Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method	Method Description	Protocol	Laboratory
200.7 R4.4-1994	Metals (ICP)	EPA	EET CLE
200.8	Metals (ICP/MS)	EPA	EET SSM
200.8-1994 R5.4	Metals (ICP/MS)	EPA	EET CLE
2340 B-2021	Total Hardness (as CaCO3) by calculation	SM	EET CLE
245.1-1994 R3.0	Mercury (CVAA)	EPA	EET CLE
2320 B-2021	Alkalinity	SM	EET CLE
2540 C-2020	Solids, Total Dissolved (TDS)	SM	EET CLE
2540D-2020	Solids, Total Suspended (TSS)	SM	EET CLE
300.0-1993 R2.1	Anions, Ion Chromatography	EPA	EET CLE
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
Pos			
200.7	Preparation, Total Recoverable Metals	EPA	EET CLE
200.8	Preparation, Total Metals	EPA	EET SSM
200.8-1994 R5.4	Preparation, Total Recoverable Metals	EPA	EET CLE
245.1-1994 R3.0	Preparation, Mercury	EPA	EET CLE
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

SM = "Standard Methods For The Examination Of Water And Wastewater"

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-218141-1	L501182-01 MW17A	Water	01/23/25 09:37	01/25/25 08:00
240-218141-2	L501182-02 MW17B	Water	01/23/25 11:46	01/25/25 08:00
240-218141-3	L501182-03 MW17C	Water	01/23/25 13:32	01/25/25 08:00
240-218141-4	L501182-04 MW17D	Water	01/23/25 14:44	01/25/25 08:00
240-218141-5	L501182-05 MW17E	Water	01/23/25 16:01	01/25/25 08:00
240-218141-6	L501182-06 MW18A	Water	01/23/25 09:33	01/25/25 08:00
240-218141-7	L501182-07 MW18B	Water	01/23/25 11:08	01/25/25 08:00
240-218141-8	L501182-08 MW18C	Water	01/23/25 12:43	01/25/25 08:00
240-218141-9	L501182-09 MW18D	Water	01/23/25 14:08	01/25/25 08:00
240-218141-10	L501182-10 MWT-17A	Water	01/23/25 09:37	01/25/25 08:00
240-218141-11	L501182-11 FIELD BLANK	Water	01/23/25 08:20	01/25/25 08:00

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-01 MW17A

Lab Sample ID: 240-218141-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	4.0		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0017	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.037		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	6.5		0.10	0.047	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.013		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	240		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	66		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.053		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	6.8		1.0	0.13	mg/L	10			200.8	Total/NA
Hardness as calcium carbonate	870		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	250	B	5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	1300		20	16	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	14		8.0	0.80	mg/L	1			2540D-2020	Total/NA
Chloride	68		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.25		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	670		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L501182-02 MW17B

Lab Sample ID: 240-218141-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	1.9		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0036	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.054		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.00026	J	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	2.4		0.10	0.047	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.0040		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Zinc	0.12		0.020	0.015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	140		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	34		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.085		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	2.1		0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.098		0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	490		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	180	B	5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	870		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	5.7		4.0	0.40	mg/L	1			2540D-2020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-02 MW17B (Continued)

Lab Sample ID: 240-218141-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	67		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.33		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	400		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L501182-03 MW17C

Lab Sample ID: 240-218141-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	2.2		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0040	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.065		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.00023	J	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	2.3		0.10	0.047	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.0064		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Antimony	0.00072	J	0.0020	0.00057	mg/L	1			200.8-1994 R5.4	Total Recoverable
Zinc	0.056		0.020	0.015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	160		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	42		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.056		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	2.2		0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.052		0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	570		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	230	B	5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	1100		20	16	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	7.4		5.9	0.59	mg/L	1			2540D-2020	Total/NA
Chloride	57		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.34		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	530		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L501182-04 MW17D

Lab Sample ID: 240-218141-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	2.6		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0017	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.043		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	0.77		0.10	0.047	mg/L	1			200.8-1994 R5.4	Total Recoverable
Antimony	0.00066	J	0.0020	0.00057	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	50		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	17		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-04 MW17D (Continued)

Lab Sample ID: 240-218141-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.033		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	0.75		0.10	0.013	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	190		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	280	B	5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	280		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	2.5	J	4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	7.3		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.47		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	8.0		1.0	0.35	mg/L	1			300.0-1993 R2.1	Total/NA

Client Sample ID: L501182-05 MW17E

Lab Sample ID: 240-218141-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	3.3		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Barium	0.0051		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	0.050	J	0.10	0.047	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	5.2		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	1.5		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.023		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	0.069	J	0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.0012	J	0.0070	0.00093	mg/L	1			200.8	Total/NA
Bicarbonate Alkalinity as CaCO3	350	B	5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	370		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	0.50	J	4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	1.5		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	1.3		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	2.0		1.0	0.35	mg/L	1			300.0-1993 R2.1	Total/NA

Client Sample ID: L501182-06 MW18A

Lab Sample ID: 240-218141-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	1.3		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0019	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.067		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	3.0		0.10	0.047	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	110		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	21		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.11		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	2.8		0.10	0.013	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	350		33	33	mg/L	1			2340 B-2021	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-06 MW18A (Continued)

Lab Sample ID: 240-218141-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	240	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	560		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	6.6		4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	66		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.59		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	150		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L501182-07 MW18B

Lab Sample ID: 240-218141-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	3.4		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Barium	0.055		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	2.9		0.10	0.047	mg/L	1		200.8-1994 R5.4	Total Recoverable
Nickel	0.0077		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	160		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	31		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.13		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	2.6		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0010	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	530		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	160	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	890		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	5.4		4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	85		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.33		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	410		5.0	1.7	mg/L	5		300.0-1993 R2.1	Total/NA

Client Sample ID: L501182-08 MW18C

Lab Sample ID: 240-218141-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	3.1		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.0010	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.054		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	3.6		0.10	0.047	mg/L	1		200.8-1994 R5.4	Total Recoverable
Nickel	0.0095		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	190		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	47		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.093		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	3.6		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0012	J	0.0070	0.00093	mg/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-08 MW18C (Continued)

Lab Sample ID: 240-218141-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Hardness as calcium carbonate	660		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	180	B	5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	1000		20	16	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	8.7		4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	89		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.23		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	540		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L501182-09 MW18D

Lab Sample ID: 240-218141-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	3.8		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Barium	0.023		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	1.2		0.10	0.047	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.0032		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	61		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	13		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.067		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	1.3		0.10	0.013	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	200		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	290	B	5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	600		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	2.3	J	4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	36		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	1.0		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	190		1.0	0.35	mg/L	1			300.0-1993 R2.1	Total/NA

Client Sample ID: L501182-10 MWT-17A

Lab Sample ID: 240-218141-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	4.3		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0014	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.040		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	7.0		0.10	0.047	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.014		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	250		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	71		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.055		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	6.9		0.10	0.013	mg/L	1			200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-10 MWT-17A (Continued)

Lab Sample ID: 240-218141-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0010	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	920		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	250		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	1300		20	16	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	16		8.0	0.80	mg/L	1		2540D-2020	Total/NA
Chloride	68		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.25		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	670		5.0	1.7	mg/L	5		300.0-1993 R2.1	Total/NA

Client Sample ID: L501182-11 FIELD BLANK

Lab Sample ID: 240-218141-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0017	J	0.0070	0.00093	mg/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-01 MW17A

Lab Sample ID: 240-218141-1

Date Collected: 01/23/25 09:37

Matrix: Water

Date Received: 01/25/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.0		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 14:39	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 18:20	1
Arsenic	0.0017	J	0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 18:20	1
Barium	0.037		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 18:20	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 18:20	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 18:20	1
Cobalt	ND		0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 18:20	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 18:20	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 18:20	1
Iron	6.5		0.10	0.047	mg/L		01/27/25 14:00	01/28/25 18:20	1
Nickel	0.013		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 18:20	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 18:20	1
Antimony	ND		0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 18:20	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 18:20	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 18:20	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 18:20	1
Zinc	ND		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 18:20	1
Calcium	240		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 18:20	1
Magnesium	66		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 18:20	1
Lithium	0.053		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 18:20	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6.8		1.0	0.13	mg/L		02/04/25 15:37	02/05/25 14:15	10
Zinc	ND		0.070	0.0093	mg/L		02/04/25 15:37	02/05/25 14:15	10

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	870		33	33	mg/L			02/03/25 10:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	250	B	5.0	2.6	mg/L			01/27/25 14:13	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/27/25 14:13	1
Total Dissolved Solids (SM 2540 C-2020)	1300		20	16	mg/L			01/28/25 09:59	1
Total Suspended Solids (SM 2540D-2020)	14		8.0	0.80	mg/L			01/27/25 10:24	1
Chloride (EPA 300.0-1993 R2.1)	68		1.0	0.13	mg/L			01/27/25 13:20	1
Fluoride (EPA 300.0-1993 R2.1)	0.25		0.050	0.024	mg/L			01/27/25 13:20	1
Sulfate (EPA 300.0-1993 R2.1)	670		5.0	1.7	mg/L			01/27/25 14:25	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-01 MW17A

Lab Sample ID: 240-218141-1

Date Collected: 01/23/25 09:37

Matrix: Water

Date Received: 01/25/25 08:00

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	0.171		0.100	0.102	1.00	0.127	pCi/L	01/29/25 07:58	02/20/25 07:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		30 - 110					01/29/25 07:58	02/20/25 07:35	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	0.171	U	0.351	0.351	1.00	0.613	pCi/L	01/29/25 08:01	02/14/25 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		30 - 110					01/29/25 08:01	02/14/25 11:51	1
Y Carrier	78.5		30 - 110					01/29/25 08:01	02/14/25 11:51	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	0.342	U	0.365	0.366	5.00	0.613	pCi/L		02/24/25 10:58	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-02 MW17B

Lab Sample ID: 240-218141-2

Date Collected: 01/23/25 11:46

Matrix: Water

Date Received: 01/25/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 15:00	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 18:23	1
Arsenic	0.0036	J	0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 18:23	1
Barium	0.054		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 18:23	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 18:23	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 18:23	1
Cobalt	0.00026	J	0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 18:23	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 18:23	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 18:23	1
Iron	2.4		0.10	0.047	mg/L		01/27/25 14:00	01/28/25 18:23	1
Nickel	0.0040		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 18:23	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 18:23	1
Antimony	ND		0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 18:23	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 18:23	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 18:23	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 18:23	1
Zinc	0.12		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 18:23	1
Calcium	140		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 18:23	1
Magnesium	34		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 18:23	1
Lithium	0.085		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 18:23	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.1		0.10	0.013	mg/L		02/04/25 15:37	02/05/25 13:58	1
Zinc	0.098		0.0070	0.00093	mg/L		02/04/25 15:37	02/05/25 13:58	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	490		33	33	mg/L			02/03/25 10:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	180	B	5.0	2.6	mg/L			01/27/25 14:20	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/27/25 14:20	1
Total Dissolved Solids (SM 2540 C-2020)	870		10	7.8	mg/L			01/28/25 09:59	1
Total Suspended Solids (SM 2540D-2020)	5.7		4.0	0.40	mg/L			01/27/25 10:24	1
Chloride (EPA 300.0-1993 R2.1)	67		1.0	0.13	mg/L			01/27/25 15:30	1
Fluoride (EPA 300.0-1993 R2.1)	0.33		0.050	0.024	mg/L			01/27/25 15:30	1
Sulfate (EPA 300.0-1993 R2.1)	400		5.0	1.7	mg/L			01/27/25 15:52	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-02 MW17B

Lab Sample ID: 240-218141-2

Date Collected: 01/23/25 11:46

Matrix: Water

Date Received: 01/25/25 08:00

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	0.123	U	0.116	0.117	1.00	0.182	pCi/L	01/29/25 07:58	02/20/25 07:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		30 - 110					01/29/25 07:58	02/20/25 07:44	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	0.412	0.415	1.00	0.625	pCi/L	01/29/25 08:01	02/14/25 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		30 - 110					01/29/25 08:01	02/14/25 11:51	1
Y Carrier	80.0		30 - 110					01/29/25 08:01	02/14/25 11:51	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	0.662		0.428	0.431	5.00	0.625	pCi/L		02/24/25 10:58	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-03 MW17C

Lab Sample ID: 240-218141-3

Date Collected: 01/23/25 13:32

Matrix: Water

Date Received: 01/25/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.2		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 15:04	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 18:31	1
Arsenic	0.0040	J	0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 18:31	1
Barium	0.065		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 18:31	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 18:31	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 18:31	1
Cobalt	0.00023	J	0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 18:31	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 18:31	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 18:31	1
Iron	2.3		0.10	0.047	mg/L		01/27/25 14:00	01/28/25 18:31	1
Nickel	0.0064		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 18:31	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 18:31	1
Antimony	0.00072	J	0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 18:31	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 18:31	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 18:31	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 18:31	1
Zinc	0.056		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 18:31	1
Calcium	160		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 18:31	1
Magnesium	42		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 18:31	1
Lithium	0.056		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 18:31	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.2		0.10	0.013	mg/L		02/04/25 15:37	02/05/25 14:00	1
Zinc	0.052		0.0070	0.00093	mg/L		02/04/25 15:37	02/05/25 14:00	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	570		33	33	mg/L			02/03/25 10:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	230	B	5.0	2.6	mg/L			01/27/25 14:24	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/27/25 14:24	1
Total Dissolved Solids (SM 2540 C-2020)	1100		20	16	mg/L			01/28/25 09:59	1
Total Suspended Solids (SM 2540D-2020)	7.4		5.9	0.59	mg/L			01/27/25 10:24	1
Chloride (EPA 300.0-1993 R2.1)	57		1.0	0.13	mg/L			01/27/25 16:57	1
Fluoride (EPA 300.0-1993 R2.1)	0.34		0.050	0.024	mg/L			01/27/25 16:57	1
Sulfate (EPA 300.0-1993 R2.1)	530		5.0	1.7	mg/L			01/27/25 17:19	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-03 MW17C

Lab Sample ID: 240-218141-3

Date Collected: 01/23/25 13:32

Matrix: Water

Date Received: 01/25/25 08:00

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	0.267		0.135	0.137	1.00	0.172	pCi/L	01/29/25 07:58	02/20/25 07:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		30 - 110					01/29/25 07:58	02/20/25 07:44	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	0.617		0.389	0.393	1.00	0.564	pCi/L	01/29/25 08:01	02/14/25 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		30 - 110					01/29/25 08:01	02/14/25 11:51	1
Y Carrier	83.0		30 - 110					01/29/25 08:01	02/14/25 11:51	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	0.884		0.412	0.416	5.00	0.564	pCi/L		02/24/25 10:58	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-04 MW17D

Lab Sample ID: 240-218141-4

Date Collected: 01/23/25 14:44

Matrix: Water

Date Received: 01/25/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.6		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 15:08	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 18:39	1
Arsenic	0.0017	J	0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 18:39	1
Barium	0.043		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 18:39	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 18:39	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 18:39	1
Cobalt	ND		0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 18:39	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 18:39	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 18:39	1
Iron	0.77		0.10	0.047	mg/L		01/27/25 14:00	01/28/25 18:39	1
Nickel	ND		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 18:39	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 18:39	1
Antimony	0.00066	J	0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 18:39	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 18:39	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 18:39	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 18:39	1
Zinc	ND		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 18:39	1
Calcium	50		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 18:39	1
Magnesium	17		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 18:39	1
Lithium	0.033		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 18:39	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.75		0.10	0.013	mg/L		02/04/25 15:37	02/05/25 14:08	1
Zinc	ND		0.0070	0.00093	mg/L		02/04/25 15:37	02/05/25 14:08	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	190		33	33	mg/L			02/03/25 10:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	280	B	5.0	2.6	mg/L			01/27/25 14:29	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/27/25 14:29	1
Total Dissolved Solids (SM 2540 C-2020)	280		10	7.8	mg/L			01/28/25 09:59	1
Total Suspended Solids (SM 2540D-2020)	2.5	J	4.0	0.40	mg/L			01/27/25 10:24	1
Chloride (EPA 300.0-1993 R2.1)	7.3		1.0	0.13	mg/L			01/27/25 17:40	1
Fluoride (EPA 300.0-1993 R2.1)	0.47		0.050	0.024	mg/L			01/27/25 17:40	1
Sulfate (EPA 300.0-1993 R2.1)	8.0		1.0	0.35	mg/L			01/27/25 17:40	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-04 MW17D

Lab Sample ID: 240-218141-4

Date Collected: 01/23/25 14:44

Matrix: Water

Date Received: 01/25/25 08:00

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	0.470		0.138	0.144	1.00	0.109	pCi/L	01/29/25 07:58	02/20/25 07:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					01/29/25 07:58	02/20/25 07:44	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	0.654		0.368	0.373	1.00	0.519	pCi/L	01/29/25 08:01	02/14/25 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					01/29/25 08:01	02/14/25 12:00	1
Y Carrier	80.0		30 - 110					01/29/25 08:01	02/14/25 12:00	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	1.12		0.393	0.400	5.00	0.519	pCi/L		02/24/25 10:58	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-05 MW17E

Lab Sample ID: 240-218141-5

Date Collected: 01/23/25 16:01

Matrix: Water

Date Received: 01/25/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.3		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 15:13	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 18:48	1
Arsenic	ND		0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 18:48	1
Barium	0.0051		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 18:48	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 18:48	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 18:48	1
Cobalt	ND		0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 18:48	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 18:48	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 18:48	1
Iron	0.050	J	0.10	0.047	mg/L		01/27/25 14:00	01/28/25 18:48	1
Nickel	ND		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 18:48	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 18:48	1
Antimony	ND		0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 18:48	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 18:48	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 18:48	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 18:48	1
Zinc	ND		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 18:48	1
Calcium	5.2		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 18:48	1
Magnesium	1.5		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 18:48	1
Lithium	0.023		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 18:48	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.069	J	0.10	0.013	mg/L		02/04/25 15:37	02/05/25 14:18	1
Zinc	0.0012	J	0.0070	0.00093	mg/L		02/04/25 15:37	02/05/25 14:18	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			02/03/25 10:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	350	B	5.0	2.6	mg/L			01/27/25 14:35	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/27/25 14:35	1
Total Dissolved Solids (SM 2540 C-2020)	370		10	7.8	mg/L			01/28/25 09:59	1
Total Suspended Solids (SM 2540D-2020)	0.50	J	4.0	0.40	mg/L			01/27/25 10:24	1
Chloride (EPA 300.0-1993 R2.1)	1.5		1.0	0.13	mg/L			01/27/25 18:02	1
Fluoride (EPA 300.0-1993 R2.1)	1.3		0.050	0.024	mg/L			01/27/25 18:02	1
Sulfate (EPA 300.0-1993 R2.1)	2.0		1.0	0.35	mg/L			01/27/25 18:02	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-05 MW17E

Lab Sample ID: 240-218141-5

Date Collected: 01/23/25 16:01

Matrix: Water

Date Received: 01/25/25 08:00

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	0.0624	U	0.0637	0.0639	1.00	0.0982	pCi/L	01/29/25 07:58	02/20/25 07:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		30 - 110					01/29/25 07:58	02/20/25 07:44	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	0.444	U	0.344	0.346	1.00	0.531	pCi/L	01/29/25 08:01	02/14/25 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		30 - 110					01/29/25 08:01	02/14/25 12:00	1
Y Carrier	81.9		30 - 110					01/29/25 08:01	02/14/25 12:00	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	0.507	U	0.350	0.352	5.00	0.531	pCi/L		02/24/25 10:58	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-06 MW18A

Lab Sample ID: 240-218141-6

Date Collected: 01/23/25 09:33

Matrix: Water

Date Received: 01/25/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.3		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 15:17	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 18:50	1
Arsenic	0.0019	J	0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 18:50	1
Barium	0.067		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 18:50	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 18:50	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 18:50	1
Cobalt	ND		0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 18:50	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 18:50	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 18:50	1
Iron	3.0		0.10	0.047	mg/L		01/27/25 14:00	01/28/25 18:50	1
Nickel	ND		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 18:50	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 18:50	1
Antimony	ND		0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 18:50	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 18:50	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 18:50	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 18:50	1
Zinc	ND		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 18:50	1
Calcium	110		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 18:50	1
Magnesium	21		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 18:50	1
Lithium	0.11		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 18:50	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.8		0.10	0.013	mg/L		02/04/25 15:37	02/05/25 14:20	1
Zinc	ND		0.0070	0.00093	mg/L		02/04/25 15:37	02/05/25 14:20	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	350		33	33	mg/L			02/03/25 10:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	240	B	5.0	2.6	mg/L			01/27/25 14:40	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/27/25 14:40	1
Total Dissolved Solids (SM 2540 C-2020)	560		10	7.8	mg/L			01/28/25 09:59	1
Total Suspended Solids (SM 2540D-2020)	6.6		4.0	0.40	mg/L			01/27/25 10:24	1
Chloride (EPA 300.0-1993 R2.1)	66		1.0	0.13	mg/L			01/27/25 18:24	1
Fluoride (EPA 300.0-1993 R2.1)	0.59		0.050	0.024	mg/L			01/27/25 18:24	1
Sulfate (EPA 300.0-1993 R2.1)	150		1.0	0.35	mg/L			01/27/25 18:24	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-06 MW18A

Lab Sample ID: 240-218141-6

Date Collected: 01/23/25 09:33

Matrix: Water

Date Received: 01/25/25 08:00

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	0.0881	U	0.111	0.111	1.00	0.184	pCi/L	01/29/25 07:58	02/20/25 07:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.4		30 - 110					01/29/25 07:58	02/20/25 07:44	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	0.484	U	0.400	0.403	1.00	0.626	pCi/L	01/29/25 08:01	02/14/25 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.4		30 - 110					01/29/25 08:01	02/14/25 12:00	1
Y Carrier	83.0		30 - 110					01/29/25 08:01	02/14/25 12:00	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	0.572	U	0.415	0.418	5.00	0.626	pCi/L		02/24/25 10:58	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-07 MW18B

Lab Sample ID: 240-218141-7

Date Collected: 01/23/25 11:08

Matrix: Water

Date Received: 01/25/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.4		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 15:21	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 18:53	1
Arsenic	ND		0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 18:53	1
Barium	0.055		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 18:53	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 18:53	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 18:53	1
Cobalt	ND		0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 18:53	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 18:53	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 18:53	1
Iron	2.9		0.10	0.047	mg/L		01/27/25 14:00	01/28/25 18:53	1
Nickel	0.0077		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 18:53	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 18:53	1
Antimony	ND		0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 18:53	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 18:53	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 18:53	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 18:53	1
Zinc	ND		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 18:53	1
Calcium	160		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 18:53	1
Magnesium	31		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 18:53	1
Lithium	0.13		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 18:53	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.6		0.10	0.013	mg/L		02/04/25 15:37	02/05/25 14:23	1
Zinc	0.0010	J	0.0070	0.00093	mg/L		02/04/25 15:37	02/05/25 14:23	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	530		33	33	mg/L			02/03/25 10:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	160	B	5.0	2.6	mg/L			01/27/25 14:46	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/27/25 14:46	1
Total Dissolved Solids (SM 2540 C-2020)	890		10	7.8	mg/L			01/28/25 09:59	1
Total Suspended Solids (SM 2540D-2020)	5.4		4.0	0.40	mg/L			01/27/25 10:24	1
Chloride (EPA 300.0-1993 R2.1)	85		1.0	0.13	mg/L			01/27/25 19:07	1
Fluoride (EPA 300.0-1993 R2.1)	0.33		0.050	0.024	mg/L			01/27/25 19:07	1
Sulfate (EPA 300.0-1993 R2.1)	410		5.0	1.7	mg/L			01/27/25 19:29	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-07 MW18B

Lab Sample ID: 240-218141-7

Date Collected: 01/23/25 11:08

Matrix: Water

Date Received: 01/25/25 08:00

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	0.375		0.130	0.135	1.00	0.119	pCi/L	01/29/25 07:58	02/20/25 07:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.6		30 - 110					01/29/25 07:58	02/20/25 07:44	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	0.894		0.475	0.483	1.00	0.680	pCi/L	01/29/25 08:01	02/14/25 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.6		30 - 110					01/29/25 08:01	02/14/25 12:00	1
Y Carrier	82.2		30 - 110					01/29/25 08:01	02/14/25 12:00	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	1.27		0.492	0.502	5.00	0.680	pCi/L		02/24/25 10:58	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-08 MW18C

Lab Sample ID: 240-218141-8

Date Collected: 01/23/25 12:43

Matrix: Water

Date Received: 01/25/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.1		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 15:25	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 18:56	1
Arsenic	0.0010	J	0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 18:56	1
Barium	0.054		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 18:56	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 18:56	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 18:56	1
Cobalt	ND		0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 18:56	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 18:56	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 18:56	1
Iron	3.6		0.10	0.047	mg/L		01/27/25 14:00	01/28/25 18:56	1
Nickel	0.0095		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 18:56	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 18:56	1
Antimony	ND		0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 18:56	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 18:56	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 18:56	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 18:56	1
Zinc	ND		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 18:56	1
Calcium	190		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 18:56	1
Magnesium	47		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 18:56	1
Lithium	0.093		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 18:56	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.6		0.10	0.013	mg/L		02/04/25 15:37	02/05/25 14:26	1
Zinc	0.0012	J	0.0070	0.00093	mg/L		02/04/25 15:37	02/05/25 14:26	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	660		33	33	mg/L			02/03/25 10:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	180	B	5.0	2.6	mg/L			01/27/25 14:55	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/27/25 14:55	1
Total Dissolved Solids (SM 2540 C-2020)	1000		20	16	mg/L			01/28/25 09:59	1
Total Suspended Solids (SM 2540D-2020)	8.7		4.0	0.40	mg/L			01/27/25 10:24	1
Chloride (EPA 300.0-1993 R2.1)	89		1.0	0.13	mg/L			01/27/25 19:51	1
Fluoride (EPA 300.0-1993 R2.1)	0.23		0.050	0.024	mg/L			01/27/25 19:51	1
Sulfate (EPA 300.0-1993 R2.1)	540		5.0	1.7	mg/L			01/27/25 20:12	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-08 MW18C

Lab Sample ID: 240-218141-8

Date Collected: 01/23/25 12:43

Matrix: Water

Date Received: 01/25/25 08:00

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	0.429		0.151	0.156	1.00	0.157	pCi/L	01/29/25 07:58	02/20/25 07:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.7		30 - 110					01/29/25 07:58	02/20/25 07:45	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	1.01		0.444	0.453	1.00	0.590	pCi/L	01/29/25 08:01	02/14/25 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.7		30 - 110					01/29/25 08:01	02/14/25 12:00	1
Y Carrier	80.7		30 - 110					01/29/25 08:01	02/14/25 12:00	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	1.44		0.469	0.479	5.00	0.590	pCi/L		02/24/25 10:58	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-09 MW18D

Lab Sample ID: 240-218141-9

Date Collected: 01/23/25 14:08

Matrix: Water

Date Received: 01/25/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.8		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 15:29	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 18:59	1
Arsenic	ND		0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 18:59	1
Barium	0.023		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 18:59	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 18:59	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 18:59	1
Cobalt	ND		0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 18:59	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 18:59	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 18:59	1
Iron	1.2		0.10	0.047	mg/L		01/27/25 14:00	01/28/25 18:59	1
Nickel	0.0032		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 18:59	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 18:59	1
Antimony	ND		0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 18:59	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 18:59	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 18:59	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 18:59	1
Zinc	ND		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 18:59	1
Calcium	61		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 18:59	1
Magnesium	13		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 18:59	1
Lithium	0.067		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 18:59	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.3		0.10	0.013	mg/L		02/04/25 15:37	02/05/25 14:28	1
Zinc	ND		0.0070	0.00093	mg/L		02/04/25 15:37	02/05/25 14:28	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	200		33	33	mg/L			02/03/25 10:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	290	B	5.0	2.6	mg/L			01/27/25 15:00	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/27/25 15:00	1
Total Dissolved Solids (SM 2540 C-2020)	600		10	7.8	mg/L			01/28/25 09:59	1
Total Suspended Solids (SM 2540D-2020)	2.3	J	4.0	0.40	mg/L			01/27/25 10:24	1
Chloride (EPA 300.0-1993 R2.1)	36		1.0	0.13	mg/L			01/27/25 21:17	1
Fluoride (EPA 300.0-1993 R2.1)	1.0		0.050	0.024	mg/L			01/27/25 21:17	1
Sulfate (EPA 300.0-1993 R2.1)	190		1.0	0.35	mg/L			01/27/25 21:17	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-09 MW18D

Lab Sample ID: 240-218141-9

Date Collected: 01/23/25 14:08

Matrix: Water

Date Received: 01/25/25 08:00

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	0.260		0.116	0.118	1.00	0.125	pCi/L	01/29/25 07:58	02/20/25 07:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		30 - 110					01/29/25 07:58	02/20/25 07:45	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	0.739		0.445	0.450	1.00	0.650	pCi/L	01/29/25 08:01	02/14/25 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		30 - 110					01/29/25 08:01	02/14/25 12:00	1
Y Carrier	82.6		30 - 110					01/29/25 08:01	02/14/25 12:00	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	0.999		0.460	0.465	5.00	0.650	pCi/L		02/24/25 10:58	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-10 MWT-17A

Lab Sample ID: 240-218141-10

Date Collected: 01/23/25 09:37

Matrix: Water

Date Received: 01/25/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.3		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 15:46	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 19:04	1
Arsenic	0.0014	J	0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 19:04	1
Barium	0.040		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 19:04	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 19:04	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 19:04	1
Cobalt	ND		0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 19:04	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 19:04	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 19:04	1
Iron	7.0		0.10	0.047	mg/L		01/27/25 14:00	01/28/25 19:04	1
Nickel	0.014		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 19:04	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 19:04	1
Antimony	ND		0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 19:04	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 19:04	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 19:04	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 19:04	1
Zinc	ND		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 19:04	1
Calcium	250		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 19:04	1
Magnesium	71		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 19:04	1
Lithium	0.055		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 19:04	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6.9		0.10	0.013	mg/L		02/04/25 15:37	02/05/25 14:31	1
Zinc	0.0010	J	0.0070	0.00093	mg/L		02/04/25 15:37	02/05/25 14:31	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	920		33	33	mg/L			02/03/25 10:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	250		5.0	2.6	mg/L			01/30/25 20:12	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/30/25 20:12	1
Total Dissolved Solids (SM 2540 C-2020)	1300		20	16	mg/L			01/28/25 09:59	1
Total Suspended Solids (SM 2540D-2020)	16		8.0	0.80	mg/L			01/27/25 10:24	1
Chloride (EPA 300.0-1993 R2.1)	68		1.0	0.13	mg/L			01/27/25 22:01	1
Fluoride (EPA 300.0-1993 R2.1)	0.25		0.050	0.024	mg/L			01/27/25 22:01	1
Sulfate (EPA 300.0-1993 R2.1)	670		5.0	1.7	mg/L			01/27/25 22:22	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-10 MWT-17A

Lab Sample ID: 240-218141-10

Date Collected: 01/23/25 09:37

Matrix: Water

Date Received: 01/25/25 08:00

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	0.162		0.109	0.110	1.00	0.151	pCi/L	01/29/25 07:58	02/20/25 07:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					01/29/25 07:58	02/20/25 07:45	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	0.790		0.468	0.474	1.00	0.680	pCi/L	01/29/25 08:01	02/14/25 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					01/29/25 08:01	02/14/25 12:01	1
Y Carrier	77.8		30 - 110					01/29/25 08:01	02/14/25 12:01	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	0.953		0.481	0.487	5.00	0.680	pCi/L		02/24/25 10:58	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-11 FIELD BLANK

Lab Sample ID: 240-218141-11

Date Collected: 01/23/25 08:20

Matrix: Water

Date Received: 01/25/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 15:34	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 19:01	1
Arsenic	ND		0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 19:01	1
Barium	ND		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 19:01	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 19:01	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 19:01	1
Cobalt	ND		0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 19:01	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 19:01	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 19:01	1
Iron	ND		0.10	0.047	mg/L		01/27/25 14:00	01/28/25 19:01	1
Nickel	ND		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 19:01	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 19:01	1
Antimony	ND		0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 19:01	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 19:01	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 19:01	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 19:01	1
Zinc	ND		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 19:01	1
Calcium	ND		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 19:01	1
Magnesium	ND		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 19:01	1
Lithium	ND		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 19:01	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/04/25 15:37	02/05/25 14:33	1
Zinc	0.0017	J	0.0070	0.00093	mg/L		02/04/25 15:37	02/05/25 14:33	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			02/03/25 10:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/28/25 14:03	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			01/28/25 14:03	1
Total Dissolved Solids (SM 2540 C-2020)	ND		10	7.8	mg/L			01/28/25 09:59	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			01/27/25 10:24	1
Chloride (EPA 300.0-1993 R2.1)	ND		1.0	0.13	mg/L			01/27/25 22:44	1
Fluoride (EPA 300.0-1993 R2.1)	ND		0.050	0.024	mg/L			01/27/25 22:44	1
Sulfate (EPA 300.0-1993 R2.1)	ND		1.0	0.35	mg/L			01/27/25 22:44	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-11 FIELD BLANK

Lab Sample ID: 240-218141-11

Date Collected: 01/23/25 08:20

Matrix: Water

Date Received: 01/25/25 08:00

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	-0.0148	U	0.0910	0.0910	1.00	0.182	pCi/L	01/29/25 07:58	02/20/25 07:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		30 - 110					01/29/25 07:58	02/20/25 07:45	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	0.0279	U	0.271	0.271	1.00	0.508	pCi/L	01/29/25 08:01	02/14/25 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		30 - 110					01/29/25 08:01	02/14/25 12:01	1
Y Carrier	85.2		30 - 110					01/29/25 08:01	02/14/25 12:01	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	0.0279	U	0.286	0.286	5.00	0.508	pCi/L		02/24/25 10:58	1

Tracer/Carrier Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba (30-110)					
240-218141-1	L501182-01 MW17A	80.9					
240-218141-2	L501182-02 MW17B	70.7					
240-218141-3	L501182-03 MW17C	76.0					
240-218141-3 DU	L501182-03 MW17C	85.5					
240-218141-4	L501182-04 MW17D	88.3					
240-218141-5	L501182-05 MW17E	96.2					
240-218141-6	L501182-06 MW18A	82.4					
240-218141-7	L501182-07 MW18B	80.6					
240-218141-8	L501182-08 MW18C	85.7					
240-218141-9	L501182-09 MW18D	78.3					
240-218141-10	L501182-10 MWT-17A	76.3					
240-218141-11	L501182-11 FIELD BLANK	84.4					
LCS 160-700312/2-A	Lab Control Sample	96.7					
MB 160-700312/1-A	Method Blank	90.8					
Tracer/Carrier Legend							
Ba = Ba Carrier							

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)				
240-218141-1	L501182-01 MW17A	80.9	78.5				
240-218141-2	L501182-02 MW17B	70.7	80.0				
240-218141-3	L501182-03 MW17C	76.0	83.0				
240-218141-3 DU	L501182-03 MW17C	85.5	84.1				
240-218141-4	L501182-04 MW17D	88.3	80.0				
240-218141-5	L501182-05 MW17E	96.2	81.9				
240-218141-6	L501182-06 MW18A	82.4	83.0				
240-218141-7	L501182-07 MW18B	80.6	82.2				
240-218141-8	L501182-08 MW18C	85.7	80.7				
240-218141-9	L501182-09 MW18D	78.3	82.6				
240-218141-10	L501182-10 MWT-17A	76.3	77.8				
240-218141-11	L501182-11 FIELD BLANK	84.4	85.2				
LCS 160-700314/2-A	Lab Control Sample	96.7	84.1				
MB 160-700314/1-A	Method Blank	90.8	81.9				
Tracer/Carrier Legend							
Ba = Ba Carrier							
Y = Y Carrier							

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method: 200.7 R4.4-1994 - Metals (ICP)

Lab Sample ID: MB 240-642669/1-A
Matrix: Water
Analysis Batch: 643012

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 642669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		01/27/25 14:00	01/29/25 14:14	1

Lab Sample ID: LCS 240-642669/2-A
Matrix: Water
Analysis Batch: 643012

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 642669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	85 - 115

Lab Sample ID: 240-218141-1 MS
Matrix: Water
Analysis Batch: 643012

Client Sample ID: L501182-01 MW17A
Prep Type: Total Recoverable
Prep Batch: 642669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	4.0		1.00	5.21		mg/L		122	70 - 130

Lab Sample ID: 240-218141-1 MSD
Matrix: Water
Analysis Batch: 643012

Client Sample ID: L501182-01 MW17A
Prep Type: Total Recoverable
Prep Batch: 642669

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	4.0		1.00	5.29		mg/L		130	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 350-4800/25-A
Matrix: Water
Analysis Batch: 4835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/04/25 15:37	02/05/25 13:00	1
Zinc	ND		0.0070	0.00093	mg/L		02/04/25 15:37	02/05/25 13:00	1

Lab Sample ID: LCS 350-4800/26-A
Matrix: Water
Analysis Batch: 4835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	20.0		mg/L		100	85 - 115
Zinc	1.00	0.991		mg/L		99	85 - 115

Method: 200.8-1994 R5.4 - Metals (ICP/MS)

Lab Sample ID: MB 240-642669/1-A
Matrix: Water
Analysis Batch: 642849

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 642669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		01/27/25 14:00	01/28/25 18:14	1
Arsenic	ND		0.0050	0.00075	mg/L		01/27/25 14:00	01/28/25 18:14	1

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-642669/1-A
Matrix: Water
Analysis Batch: 642849

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 642669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0050	0.00077	mg/L		01/27/25 14:00	01/28/25 18:14	1
Beryllium	ND		0.0010	0.00027	mg/L		01/27/25 14:00	01/28/25 18:14	1
Cadmium	ND		0.0010	0.000077	mg/L		01/27/25 14:00	01/28/25 18:14	1
Cobalt	ND		0.0010	0.000086	mg/L		01/27/25 14:00	01/28/25 18:14	1
Chromium	ND		0.0050	0.0012	mg/L		01/27/25 14:00	01/28/25 18:14	1
Copper	ND		0.0020	0.0017	mg/L		01/27/25 14:00	01/28/25 18:14	1
Iron	ND		0.10	0.047	mg/L		01/27/25 14:00	01/28/25 18:14	1
Nickel	ND		0.0020	0.0015	mg/L		01/27/25 14:00	01/28/25 18:14	1
Lead	ND		0.0010	0.00045	mg/L		01/27/25 14:00	01/28/25 18:14	1
Antimony	ND		0.0020	0.00057	mg/L		01/27/25 14:00	01/28/25 18:14	1
Selenium	ND		0.0050	0.00089	mg/L		01/27/25 14:00	01/28/25 18:14	1
Thallium	ND		0.0010	0.00051	mg/L		01/27/25 14:00	01/28/25 18:14	1
Vanadium	ND		0.0050	0.00082	mg/L		01/27/25 14:00	01/28/25 18:14	1
Zinc	ND		0.020	0.015	mg/L		01/27/25 14:00	01/28/25 18:14	1
Calcium	ND		1.0	0.25	mg/L		01/27/25 14:00	01/28/25 18:14	1
Magnesium	ND		1.0	0.061	mg/L		01/27/25 14:00	01/28/25 18:14	1
Lithium	ND		0.0080	0.0034	mg/L		01/27/25 14:00	01/28/25 18:14	1

Lab Sample ID: LCS 240-642669/3-A
Matrix: Water
Analysis Batch: 642849

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 642669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.100	0.101		mg/L		101	85 - 115
Arsenic	1.00	0.995		mg/L		100	85 - 115
Barium	1.00	0.991		mg/L		99	85 - 115
Beryllium	0.500	0.512		mg/L		102	85 - 115
Cadmium	0.500	0.483		mg/L		97	85 - 115
Cobalt	0.500	0.514		mg/L		103	85 - 115
Chromium	0.500	0.503		mg/L		101	85 - 115
Copper	0.500	0.492		mg/L		98	85 - 115
Iron	5.00	5.11		mg/L		102	85 - 115
Nickel	0.500	0.498		mg/L		100	85 - 115
Lead	0.500	0.535		mg/L		107	85 - 115
Antimony	0.100	0.0994		mg/L		99	85 - 115
Selenium	1.00	0.977		mg/L		98	85 - 115
Thallium	1.00	1.10		mg/L		110	85 - 115
Vanadium	0.500	0.509		mg/L		102	85 - 115
Zinc	0.500	0.516		mg/L		103	85 - 115
Calcium	25.0	25.2		mg/L		101	85 - 115
Magnesium	25.0	25.7		mg/L		103	85 - 115
Lithium	0.500	0.510		mg/L		102	85 - 115

Lab Sample ID: 240-218141-2 MS
Matrix: Water
Analysis Batch: 642849

Client Sample ID: L501182-02 MW17B
Prep Type: Total Recoverable
Prep Batch: 642669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.100	0.100		mg/L		100	70 - 130

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-218141-2 MS

Matrix: Water

Analysis Batch: 642849

Client Sample ID: L501182-02 MW17B

Prep Type: Total Recoverable

Prep Batch: 642669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0036	J	1.00	0.995		mg/L		99	70 - 130
Barium	0.054		1.00	1.02		mg/L		97	70 - 130
Beryllium	ND		0.500	0.487		mg/L		97	70 - 130
Cadmium	ND		0.500	0.468		mg/L		94	70 - 130
Cobalt	0.00026	J	0.500	0.502		mg/L		100	70 - 130
Chromium	ND		0.500	0.493		mg/L		99	70 - 130
Copper	ND		0.500	0.481		mg/L		96	70 - 130
Iron	2.4		5.00	7.26		mg/L		97	70 - 130
Nickel	0.0040		0.500	0.491		mg/L		97	70 - 130
Lead	ND		0.500	0.522		mg/L		104	70 - 130
Antimony	ND		0.100	0.0997		mg/L		100	70 - 130
Selenium	ND		1.00	0.952		mg/L		95	70 - 130
Thallium	ND		1.00	1.09		mg/L		109	70 - 130
Vanadium	ND		0.500	0.501		mg/L		100	70 - 130
Zinc	0.12		0.500	0.615		mg/L		99	70 - 130
Calcium	140		25.0	157	4	mg/L		65	70 - 130
Magnesium	34		25.0	55.9		mg/L		90	70 - 130
Lithium	0.085		0.500	0.577		mg/L		98	70 - 130

Lab Sample ID: 240-218141-2 MSD

Matrix: Water

Analysis Batch: 642849

Client Sample ID: L501182-02 MW17B

Prep Type: Total Recoverable

Prep Batch: 642669

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Silver	ND		0.100	0.102		mg/L		102	70 - 130	2	20
Arsenic	0.0036	J	1.00	1.03		mg/L		103	70 - 130	4	20
Barium	0.054		1.00	1.06		mg/L		100	70 - 130	3	20
Beryllium	ND		0.500	0.516		mg/L		103	70 - 130	6	20
Cadmium	ND		0.500	0.481		mg/L		96	70 - 130	3	20
Cobalt	0.00026	J	0.500	0.518		mg/L		104	70 - 130	3	20
Chromium	ND		0.500	0.508		mg/L		102	70 - 130	3	20
Copper	ND		0.500	0.505		mg/L		101	70 - 130	5	20
Iron	2.4		5.00	7.25		mg/L		97	70 - 130	0	20
Nickel	0.0040		0.500	0.503		mg/L		100	70 - 130	3	20
Lead	ND		0.500	0.545		mg/L		109	70 - 130	4	20
Antimony	ND		0.100	0.100		mg/L		100	70 - 130	0	20
Selenium	ND		1.00	0.983		mg/L		98	70 - 130	3	20
Thallium	ND		1.00	1.10		mg/L		110	70 - 130	1	20
Vanadium	ND		0.500	0.517		mg/L		103	70 - 130	3	20
Zinc	0.12		0.500	0.629		mg/L		102	70 - 130	2	20
Calcium	140		25.0	163	4	mg/L		88	70 - 130	4	20
Magnesium	34		25.0	57.5		mg/L		96	70 - 130	3	20
Lithium	0.085		0.500	0.612		mg/L		105	70 - 130	6	20

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-218141-3 MS

Matrix: Water

Analysis Batch: 642849

Client Sample ID: L501182-03 MW17C

Prep Type: Total Recoverable

Prep Batch: 642669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.100	0.104		mg/L		104	70 - 130
Arsenic	0.0040	J	1.00	1.04		mg/L		104	70 - 130
Barium	0.065		1.00	1.09		mg/L		102	70 - 130
Beryllium	ND		0.500	0.522		mg/L		104	70 - 130
Cadmium	ND		0.500	0.490		mg/L		98	70 - 130
Cobalt	0.00023	J	0.500	0.526		mg/L		105	70 - 130
Chromium	ND		0.500	0.521		mg/L		104	70 - 130
Copper	ND		0.500	0.503		mg/L		101	70 - 130
Iron	2.3		5.00	7.61		mg/L		106	70 - 130
Nickel	0.0064		0.500	0.512		mg/L		101	70 - 130
Lead	ND		0.500	0.549		mg/L		110	70 - 130
Antimony	0.00072	J	0.100	0.104		mg/L		103	70 - 130
Selenium	ND		1.00	0.994		mg/L		99	70 - 130
Thallium	ND		1.00	1.13		mg/L		113	70 - 130
Vanadium	ND		0.500	0.529		mg/L		106	70 - 130
Zinc	0.056		0.500	0.579		mg/L		104	70 - 130
Calcium	160		25.0	184	4	mg/L		104	70 - 130
Magnesium	42		25.0	68.1		mg/L		104	70 - 130
Lithium	0.056		0.500	0.581		mg/L		105	70 - 130

Lab Sample ID: 240-218141-3 MSD

Matrix: Water

Analysis Batch: 642849

Client Sample ID: L501182-03 MW17C

Prep Type: Total Recoverable

Prep Batch: 642669

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Silver	ND		0.100	0.0957		mg/L		96	70 - 130	8	20
Arsenic	0.0040	J	1.00	0.961		mg/L		96	70 - 130	8	20
Barium	0.065		1.00	1.01		mg/L		94	70 - 130	7	20
Beryllium	ND		0.500	0.483		mg/L		97	70 - 130	8	20
Cadmium	ND		0.500	0.452		mg/L		90	70 - 130	8	20
Cobalt	0.00023	J	0.500	0.484		mg/L		97	70 - 130	8	20
Chromium	ND		0.500	0.477		mg/L		95	70 - 130	9	20
Copper	ND		0.500	0.466		mg/L		93	70 - 130	8	20
Iron	2.3		5.00	6.91		mg/L		92	70 - 130	10	20
Nickel	0.0064		0.500	0.473		mg/L		93	70 - 130	8	20
Lead	ND		0.500	0.508		mg/L		102	70 - 130	8	20
Antimony	0.00072	J	0.100	0.0953		mg/L		95	70 - 130	9	20
Selenium	ND		1.00	0.919		mg/L		92	70 - 130	8	20
Thallium	ND		1.00	1.06		mg/L		106	70 - 130	6	20
Vanadium	ND		0.500	0.484		mg/L		97	70 - 130	9	20
Zinc	0.056		0.500	0.535		mg/L		96	70 - 130	8	20
Calcium	160		25.0	171	4	mg/L		51	70 - 130	7	20
Magnesium	42		25.0	62.6		mg/L		82	70 - 130	8	20
Lithium	0.056		0.500	0.533		mg/L		95	70 - 130	9	20

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method: 245.1-1994 R3.0 - Mercury (CVAA)

Lab Sample ID: MB 240-642676/1-A
Matrix: Water
Analysis Batch: 642857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642676

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		01/27/25 14:00	01/28/25 13:47	1

Lab Sample ID: LCS 240-642676/2-A
Matrix: Water
Analysis Batch: 642857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00466		mg/L		93	85 - 115

Lab Sample ID: 240-218141-1 MS
Matrix: Water
Analysis Batch: 642857

Client Sample ID: L501182-01 MW17A
Prep Type: Total/NA
Prep Batch: 642676

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.000945		mg/L		94	70 - 130

Lab Sample ID: 240-218141-1 MSD
Matrix: Water
Analysis Batch: 642857

Client Sample ID: L501182-01 MW17A
Prep Type: Total/NA
Prep Batch: 642676

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.000928		mg/L		93	70 - 130	2	20

Lab Sample ID: 240-218141-2 MS
Matrix: Water
Analysis Batch: 642857

Client Sample ID: L501182-02 MW17B
Prep Type: Total/NA
Prep Batch: 642676

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.000943		mg/L		94	70 - 130

Lab Sample ID: 240-218141-2 MSD
Matrix: Water
Analysis Batch: 642857

Client Sample ID: L501182-02 MW17B
Prep Type: Total/NA
Prep Batch: 642676

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.000924		mg/L		92	70 - 130	2	20

Method: 2320 B-2021 - Alkalinity

Lab Sample ID: MB 240-642804/30
Matrix: Water
Analysis Batch: 642804

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	3.53	J	5.0	2.6	mg/L			01/27/25 13:48	1
Carbonate Alkalinity as CaCO3	ND		5.0	2.6	mg/L			01/27/25 13:48	1

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method: 2320 B-2021 - Alkalinity (Continued)

Lab Sample ID: 240-218141-7 DU

Matrix: Water

Analysis Batch: 642804

Client Sample ID: L501182-07 MW18B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO ₃	160	B	164		mg/L		0.6	20
Carbonate Alkalinity as CaCO ₃	ND		ND		mg/L		NC	20

Lab Sample ID: MB 240-642865/4

Matrix: Water

Analysis Batch: 642865

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			01/28/25 12:18	1
Carbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			01/28/25 12:18	1

Lab Sample ID: MB 240-643198/4

Matrix: Water

Analysis Batch: 643198

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			01/30/25 20:08	1
Carbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			01/30/25 20:08	1

Lab Sample ID: 240-218141-10 DU

Matrix: Water

Analysis Batch: 643198

Client Sample ID: L501182-10 MWT-17A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO ₃	250		248		mg/L		0.3	20
Carbonate Alkalinity as CaCO ₃	ND		ND		mg/L		NC	20

Method: 2540 C-2020 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-642800/1

Matrix: Water

Analysis Batch: 642800

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	7.8	mg/L			01/28/25 09:59	1

Lab Sample ID: LCS 240-642800/2

Matrix: Water

Analysis Batch: 642800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	242	217		mg/L		90	80 - 120

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method: 2540D-2020 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-642672/1

Matrix: Water

Analysis Batch: 642672

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	0.40	mg/L			01/27/25 10:24	1

Lab Sample ID: LCS 240-642672/2

Matrix: Water

Analysis Batch: 642672

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	72.7	65.0		mg/L		89	64 - 120

Lab Sample ID: 240-218141-1 DU

Matrix: Water

Analysis Batch: 642672

Client Sample ID: L501182-01 MW17A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	14		14.8		mg/L		3	10

Lab Sample ID: 240-218141-10 DU

Matrix: Water

Analysis Batch: 642672

Client Sample ID: L501182-10 MWT-17A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	16		15.4		mg/L		3	10

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 240-642682/3

Matrix: Water

Analysis Batch: 642682

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.13	mg/L			01/27/25 12:37	1
Fluoride	ND		0.050	0.024	mg/L			01/27/25 12:37	1
Sulfate	ND		1.0	0.35	mg/L			01/27/25 12:37	1

Lab Sample ID: LCS 240-642682/4

Matrix: Water

Analysis Batch: 642682

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.4		mg/L		99	90 - 110
Fluoride	2.50	2.70		mg/L		108	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

Lab Sample ID: 240-218141-1 MS

Matrix: Water

Analysis Batch: 642682

Client Sample ID: L501182-01 MW17A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	68		50.0	116		mg/L		96	80 - 120
Fluoride	0.25		2.50	2.86		mg/L		104	80 - 120

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-218141-1 MS

Matrix: Water

Analysis Batch: 642682

Client Sample ID: L501182-01 MW17A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	670		250	895		mg/L		92	80 - 120

Lab Sample ID: 240-218141-1 MSD

Matrix: Water

Analysis Batch: 642682

Client Sample ID: L501182-01 MW17A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	68		50.0	117		mg/L		98	80 - 120	1	15
Fluoride	0.25		2.50	2.88		mg/L		105	80 - 120	1	15

Lab Sample ID: 240-218141-1 MSD

Matrix: Water

Analysis Batch: 642682

Client Sample ID: L501182-01 MW17A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	670		250	895		mg/L		92	80 - 120	0	15

Lab Sample ID: 240-218141-11 MS

Matrix: Water

Analysis Batch: 642682

Client Sample ID: L501182-11 FIELD BLANK

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		50.0	51.4		mg/L		103	80 - 120
Fluoride	ND		2.50	2.72		mg/L		109	80 - 120
Sulfate	ND		50.0	52.5		mg/L		105	80 - 120

Lab Sample ID: 240-218141-11 MSD

Matrix: Water

Analysis Batch: 642682

Client Sample ID: L501182-11 FIELD BLANK

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.0	51.8		mg/L		104	80 - 120	1	15
Fluoride	ND		2.50	2.74		mg/L		110	80 - 120	1	15
Sulfate	ND		50.0	52.7		mg/L		105	80 - 120	0	15

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-700312/1-A

Matrix: Water

Analysis Batch: 703901

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 700312

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02623	U	0.0601	0.0601	1.00	0.112	pCi/L	01/29/25 07:58	02/20/25 07:35	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					01/29/25 07:58	02/20/25 07:35	1

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-700312/2-A
Matrix: Water
Analysis Batch: 703901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 700312

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	8.008		0.888	1.00	0.122	pCi/L	84	75 - 125
	LCS	LCS								
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	96.7		30 - 110							

Lab Sample ID: 240-218141-3 DU
Matrix: Water
Analysis Batch: 703902

Client Sample ID: L501182-03 MW17C
Prep Type: Total/NA
Prep Batch: 700312

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit		RER	RER Limit
Radium-226	0.267		0.2119		0.104	1.00	0.112	pCi/L		0.23	1
	DU	DU									
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	85.5		30 - 110								

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-700314/1-A
Matrix: Water
Analysis Batch: 703039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 700314

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5429		0.358	0.361	1.00	0.531	pCi/L	01/29/25 08:01	02/14/25 11:49	1
	MB	MB								
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					01/29/25 08:01	02/14/25 11:49	1
Y Carrier	81.9		30 - 110					01/29/25 08:01	02/14/25 11:49	1

Lab Sample ID: LCS 160-700314/2-A
Matrix: Water
Analysis Batch: 703039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 700314

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		8.10	8.051		1.13	1.00	0.495	pCi/L	99	75 - 125
	LCS	LCS								
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	96.7		30 - 110							
Y Carrier	84.1		30 - 110							

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 240-218141-3 DU
Matrix: Water
Analysis Batch: 703039

Client Sample ID: L501182-03 MW17C
Prep Type: Total/NA
Prep Batch: 700314

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.617		0.9081		0.407	1.00	0.517	pCi/L	0.36	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	85.5		30 - 110
Y Carrier	84.1		30 - 110

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Metals

Prep Batch: 4800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total/NA	Water	200.8	
240-218141-2	L501182-02 MW17B	Total/NA	Water	200.8	
240-218141-3	L501182-03 MW17C	Total/NA	Water	200.8	
240-218141-4	L501182-04 MW17D	Total/NA	Water	200.8	
240-218141-5	L501182-05 MW17E	Total/NA	Water	200.8	
240-218141-6	L501182-06 MW18A	Total/NA	Water	200.8	
240-218141-7	L501182-07 MW18B	Total/NA	Water	200.8	
240-218141-8	L501182-08 MW18C	Total/NA	Water	200.8	
240-218141-9	L501182-09 MW18D	Total/NA	Water	200.8	
240-218141-10	L501182-10 MWT-17A	Total/NA	Water	200.8	
240-218141-11	L501182-11 FIELD BLANK	Total/NA	Water	200.8	
MB 350-4800/25-A	Method Blank	Total/NA	Water	200.8	
LCS 350-4800/26-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 4835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total/NA	Water	200.8	4800
240-218141-2	L501182-02 MW17B	Total/NA	Water	200.8	4800
240-218141-3	L501182-03 MW17C	Total/NA	Water	200.8	4800
240-218141-4	L501182-04 MW17D	Total/NA	Water	200.8	4800
240-218141-5	L501182-05 MW17E	Total/NA	Water	200.8	4800
240-218141-6	L501182-06 MW18A	Total/NA	Water	200.8	4800
240-218141-7	L501182-07 MW18B	Total/NA	Water	200.8	4800
240-218141-8	L501182-08 MW18C	Total/NA	Water	200.8	4800
240-218141-9	L501182-09 MW18D	Total/NA	Water	200.8	4800
240-218141-10	L501182-10 MWT-17A	Total/NA	Water	200.8	4800
240-218141-11	L501182-11 FIELD BLANK	Total/NA	Water	200.8	4800
MB 350-4800/25-A	Method Blank	Total/NA	Water	200.8	4800
LCS 350-4800/26-A	Lab Control Sample	Total/NA	Water	200.8	4800

Prep Batch: 642669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total Recoverable	Water	200.7	
240-218141-2	L501182-02 MW17B	Total Recoverable	Water	200.7	
240-218141-3	L501182-03 MW17C	Total Recoverable	Water	200.7	
240-218141-4	L501182-04 MW17D	Total Recoverable	Water	200.7	
240-218141-5	L501182-05 MW17E	Total Recoverable	Water	200.7	
240-218141-6	L501182-06 MW18A	Total Recoverable	Water	200.7	
240-218141-7	L501182-07 MW18B	Total Recoverable	Water	200.7	
240-218141-8	L501182-08 MW18C	Total Recoverable	Water	200.7	
240-218141-9	L501182-09 MW18D	Total Recoverable	Water	200.7	
240-218141-10	L501182-10 MWT-17A	Total Recoverable	Water	200.7	
240-218141-11	L501182-11 FIELD BLANK	Total Recoverable	Water	200.7	
MB 240-642669/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 240-642669/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 240-642669/3-A	Lab Control Sample	Total Recoverable	Water	200.7	
240-218141-1 MS	L501182-01 MW17A	Total Recoverable	Water	200.7	
240-218141-1 MSD	L501182-01 MW17A	Total Recoverable	Water	200.7	
240-218141-2 MS	L501182-02 MW17B	Total Recoverable	Water	200.7	
240-218141-2 MSD	L501182-02 MW17B	Total Recoverable	Water	200.7	
240-218141-3 MS	L501182-03 MW17C	Total Recoverable	Water	200.7	

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Metals (Continued)

Prep Batch: 642669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-3 MSD	L501182-03 MW17C	Total Recoverable	Water	200.7	

Prep Batch: 642676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total/NA	Water	245.1-1994 R3.0	
240-218141-2	L501182-02 MW17B	Total/NA	Water	245.1-1994 R3.0	
240-218141-3	L501182-03 MW17C	Total/NA	Water	245.1-1994 R3.0	
240-218141-4	L501182-04 MW17D	Total/NA	Water	245.1-1994 R3.0	
240-218141-5	L501182-05 MW17E	Total/NA	Water	245.1-1994 R3.0	
240-218141-6	L501182-06 MW18A	Total/NA	Water	245.1-1994 R3.0	
240-218141-7	L501182-07 MW18B	Total/NA	Water	245.1-1994 R3.0	
240-218141-8	L501182-08 MW18C	Total/NA	Water	245.1-1994 R3.0	
240-218141-9	L501182-09 MW18D	Total/NA	Water	245.1-1994 R3.0	
240-218141-10	L501182-10 MWT-17A	Total/NA	Water	245.1-1994 R3.0	
240-218141-11	L501182-11 FIELD BLANK	Total/NA	Water	245.1-1994 R3.0	
MB 240-642676/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	
LCS 240-642676/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	
240-218141-1 MS	L501182-01 MW17A	Total/NA	Water	245.1-1994 R3.0	
240-218141-1 MSD	L501182-01 MW17A	Total/NA	Water	245.1-1994 R3.0	
240-218141-2 MS	L501182-02 MW17B	Total/NA	Water	245.1-1994 R3.0	
240-218141-2 MSD	L501182-02 MW17B	Total/NA	Water	245.1-1994 R3.0	

Analysis Batch: 642849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-2	L501182-02 MW17B	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-3	L501182-03 MW17C	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-4	L501182-04 MW17D	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-5	L501182-05 MW17E	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-6	L501182-06 MW18A	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-7	L501182-07 MW18B	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-8	L501182-08 MW18C	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-9	L501182-09 MW18D	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-10	L501182-10 MWT-17A	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-11	L501182-11 FIELD BLANK	Total Recoverable	Water	200.8-1994 R5.4	642669
MB 240-642669/1-A	Method Blank	Total Recoverable	Water	200.8-1994 R5.4	642669
LCS 240-642669/3-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-2 MS	L501182-02 MW17B	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-2 MSD	L501182-02 MW17B	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-3 MS	L501182-03 MW17C	Total Recoverable	Water	200.8-1994 R5.4	642669
240-218141-3 MSD	L501182-03 MW17C	Total Recoverable	Water	200.8-1994 R5.4	642669

Analysis Batch: 642857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-2	L501182-02 MW17B	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-3	L501182-03 MW17C	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-4	L501182-04 MW17D	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-5	L501182-05 MW17E	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-6	L501182-06 MW18A	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-7	L501182-07 MW18B	Total/NA	Water	245.1-1994 R3.0	642676

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Metals (Continued)

Analysis Batch: 642857 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-8	L501182-08 MW18C	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-9	L501182-09 MW18D	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-10	L501182-10 MWT-17A	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-11	L501182-11 FIELD BLANK	Total/NA	Water	245.1-1994 R3.0	642676
MB 240-642676/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	642676
LCS 240-642676/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-1 MS	L501182-01 MW17A	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-1 MSD	L501182-01 MW17A	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-2 MS	L501182-02 MW17B	Total/NA	Water	245.1-1994 R3.0	642676
240-218141-2 MSD	L501182-02 MW17B	Total/NA	Water	245.1-1994 R3.0	642676

Analysis Batch: 643012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-2	L501182-02 MW17B	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-3	L501182-03 MW17C	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-4	L501182-04 MW17D	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-5	L501182-05 MW17E	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-6	L501182-06 MW18A	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-7	L501182-07 MW18B	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-8	L501182-08 MW18C	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-9	L501182-09 MW18D	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-10	L501182-10 MWT-17A	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-11	L501182-11 FIELD BLANK	Total Recoverable	Water	200.7 R4.4-1994	642669
MB 240-642669/1-A	Method Blank	Total Recoverable	Water	200.7 R4.4-1994	642669
LCS 240-642669/2-A	Lab Control Sample	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-1 MS	L501182-01 MW17A	Total Recoverable	Water	200.7 R4.4-1994	642669
240-218141-1 MSD	L501182-01 MW17A	Total Recoverable	Water	200.7 R4.4-1994	642669

Analysis Batch: 643365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total Recoverable	Water	2340 B-2021	
240-218141-2	L501182-02 MW17B	Total Recoverable	Water	2340 B-2021	
240-218141-3	L501182-03 MW17C	Total Recoverable	Water	2340 B-2021	
240-218141-4	L501182-04 MW17D	Total Recoverable	Water	2340 B-2021	
240-218141-5	L501182-05 MW17E	Total Recoverable	Water	2340 B-2021	
240-218141-6	L501182-06 MW18A	Total Recoverable	Water	2340 B-2021	
240-218141-7	L501182-07 MW18B	Total Recoverable	Water	2340 B-2021	
240-218141-8	L501182-08 MW18C	Total Recoverable	Water	2340 B-2021	
240-218141-9	L501182-09 MW18D	Total Recoverable	Water	2340 B-2021	
240-218141-10	L501182-10 MWT-17A	Total Recoverable	Water	2340 B-2021	
240-218141-11	L501182-11 FIELD BLANK	Total Recoverable	Water	2340 B-2021	

General Chemistry

Analysis Batch: 642672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total/NA	Water	2540D-2020	
240-218141-2	L501182-02 MW17B	Total/NA	Water	2540D-2020	
240-218141-3	L501182-03 MW17C	Total/NA	Water	2540D-2020	
240-218141-4	L501182-04 MW17D	Total/NA	Water	2540D-2020	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

General Chemistry (Continued)

Analysis Batch: 642672 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-5	L501182-05 MW17E	Total/NA	Water	2540D-2020	
240-218141-6	L501182-06 MW18A	Total/NA	Water	2540D-2020	
240-218141-7	L501182-07 MW18B	Total/NA	Water	2540D-2020	
240-218141-8	L501182-08 MW18C	Total/NA	Water	2540D-2020	
240-218141-9	L501182-09 MW18D	Total/NA	Water	2540D-2020	
240-218141-10	L501182-10 MWT-17A	Total/NA	Water	2540D-2020	
240-218141-11	L501182-11 FIELD BLANK	Total/NA	Water	2540D-2020	
MB 240-642672/1	Method Blank	Total/NA	Water	2540D-2020	
LCS 240-642672/2	Lab Control Sample	Total/NA	Water	2540D-2020	
240-218141-1 DU	L501182-01 MW17A	Total/NA	Water	2540D-2020	
240-218141-10 DU	L501182-10 MWT-17A	Total/NA	Water	2540D-2020	

Analysis Batch: 642682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total/NA	Water	300.0-1993 R2.1	
240-218141-1	L501182-01 MW17A	Total/NA	Water	300.0-1993 R2.1	
240-218141-2	L501182-02 MW17B	Total/NA	Water	300.0-1993 R2.1	
240-218141-2	L501182-02 MW17B	Total/NA	Water	300.0-1993 R2.1	
240-218141-3	L501182-03 MW17C	Total/NA	Water	300.0-1993 R2.1	
240-218141-3	L501182-03 MW17C	Total/NA	Water	300.0-1993 R2.1	
240-218141-4	L501182-04 MW17D	Total/NA	Water	300.0-1993 R2.1	
240-218141-5	L501182-05 MW17E	Total/NA	Water	300.0-1993 R2.1	
240-218141-6	L501182-06 MW18A	Total/NA	Water	300.0-1993 R2.1	
240-218141-7	L501182-07 MW18B	Total/NA	Water	300.0-1993 R2.1	
240-218141-7	L501182-07 MW18B	Total/NA	Water	300.0-1993 R2.1	
240-218141-8	L501182-08 MW18C	Total/NA	Water	300.0-1993 R2.1	
240-218141-8	L501182-08 MW18C	Total/NA	Water	300.0-1993 R2.1	
240-218141-9	L501182-09 MW18D	Total/NA	Water	300.0-1993 R2.1	
240-218141-10	L501182-10 MWT-17A	Total/NA	Water	300.0-1993 R2.1	
240-218141-10	L501182-10 MWT-17A	Total/NA	Water	300.0-1993 R2.1	
240-218141-11	L501182-11 FIELD BLANK	Total/NA	Water	300.0-1993 R2.1	
MB 240-642682/3	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 240-642682/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
240-218141-1 MS	L501182-01 MW17A	Total/NA	Water	300.0-1993 R2.1	
240-218141-1 MS	L501182-01 MW17A	Total/NA	Water	300.0-1993 R2.1	
240-218141-1 MSD	L501182-01 MW17A	Total/NA	Water	300.0-1993 R2.1	
240-218141-1 MSD	L501182-01 MW17A	Total/NA	Water	300.0-1993 R2.1	
240-218141-11 MS	L501182-11 FIELD BLANK	Total/NA	Water	300.0-1993 R2.1	
240-218141-11 MSD	L501182-11 FIELD BLANK	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 642800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total/NA	Water	2540 C-2020	
240-218141-2	L501182-02 MW17B	Total/NA	Water	2540 C-2020	
240-218141-3	L501182-03 MW17C	Total/NA	Water	2540 C-2020	
240-218141-4	L501182-04 MW17D	Total/NA	Water	2540 C-2020	
240-218141-5	L501182-05 MW17E	Total/NA	Water	2540 C-2020	
240-218141-6	L501182-06 MW18A	Total/NA	Water	2540 C-2020	
240-218141-7	L501182-07 MW18B	Total/NA	Water	2540 C-2020	
240-218141-8	L501182-08 MW18C	Total/NA	Water	2540 C-2020	
240-218141-9	L501182-09 MW18D	Total/NA	Water	2540 C-2020	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

General Chemistry (Continued)

Analysis Batch: 642800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-10	L501182-10 MWT-17A	Total/NA	Water	2540 C-2020	
240-218141-11	L501182-11 FIELD BLANK	Total/NA	Water	2540 C-2020	
MB 240-642800/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-642800/2	Lab Control Sample	Total/NA	Water	2540 C-2020	

Analysis Batch: 642804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total/NA	Water	2320 B-2021	
240-218141-2	L501182-02 MW17B	Total/NA	Water	2320 B-2021	
240-218141-3	L501182-03 MW17C	Total/NA	Water	2320 B-2021	
240-218141-4	L501182-04 MW17D	Total/NA	Water	2320 B-2021	
240-218141-5	L501182-05 MW17E	Total/NA	Water	2320 B-2021	
240-218141-6	L501182-06 MW18A	Total/NA	Water	2320 B-2021	
240-218141-7	L501182-07 MW18B	Total/NA	Water	2320 B-2021	
240-218141-8	L501182-08 MW18C	Total/NA	Water	2320 B-2021	
240-218141-9	L501182-09 MW18D	Total/NA	Water	2320 B-2021	
MB 240-642804/30	Method Blank	Total/NA	Water	2320 B-2021	
240-218141-7 DU	L501182-07 MW18B	Total/NA	Water	2320 B-2021	

Analysis Batch: 642865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-11	L501182-11 FIELD BLANK	Total/NA	Water	2320 B-2021	
MB 240-642865/4	Method Blank	Total/NA	Water	2320 B-2021	

Analysis Batch: 643198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-10	L501182-10 MWT-17A	Total/NA	Water	2320 B-2021	
MB 240-643198/4	Method Blank	Total/NA	Water	2320 B-2021	
240-218141-10 DU	L501182-10 MWT-17A	Total/NA	Water	2320 B-2021	

Rad

Prep Batch: 700312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total/NA	Water	PrecSep-21	
240-218141-2	L501182-02 MW17B	Total/NA	Water	PrecSep-21	
240-218141-3	L501182-03 MW17C	Total/NA	Water	PrecSep-21	
240-218141-4	L501182-04 MW17D	Total/NA	Water	PrecSep-21	
240-218141-5	L501182-05 MW17E	Total/NA	Water	PrecSep-21	
240-218141-6	L501182-06 MW18A	Total/NA	Water	PrecSep-21	
240-218141-7	L501182-07 MW18B	Total/NA	Water	PrecSep-21	
240-218141-8	L501182-08 MW18C	Total/NA	Water	PrecSep-21	
240-218141-9	L501182-09 MW18D	Total/NA	Water	PrecSep-21	
240-218141-10	L501182-10 MWT-17A	Total/NA	Water	PrecSep-21	
240-218141-11	L501182-11 FIELD BLANK	Total/NA	Water	PrecSep-21	
MB 160-700312/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-700312/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-218141-3 DU	L501182-03 MW17C	Total/NA	Water	PrecSep-21	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Rad

Prep Batch: 700314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218141-1	L501182-01 MW17A	Total/NA	Water	PrecSep_0	
240-218141-2	L501182-02 MW17B	Total/NA	Water	PrecSep_0	
240-218141-3	L501182-03 MW17C	Total/NA	Water	PrecSep_0	
240-218141-4	L501182-04 MW17D	Total/NA	Water	PrecSep_0	
240-218141-5	L501182-05 MW17E	Total/NA	Water	PrecSep_0	
240-218141-6	L501182-06 MW18A	Total/NA	Water	PrecSep_0	
240-218141-7	L501182-07 MW18B	Total/NA	Water	PrecSep_0	
240-218141-8	L501182-08 MW18C	Total/NA	Water	PrecSep_0	
240-218141-9	L501182-09 MW18D	Total/NA	Water	PrecSep_0	
240-218141-10	L501182-10 MWT-17A	Total/NA	Water	PrecSep_0	
240-218141-11	L501182-11 FIELD BLANK	Total/NA	Water	PrecSep_0	
MB 160-700314/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-700314/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-218141-3 DU	L501182-03 MW17C	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-01 MW17A

Lab Sample ID: 240-218141-1

Date Collected: 01/23/25 09:37

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	643012	AJC	EET CLE	01/29/25 14:39
Total/NA	Prep	200.8			4800	RMN	EET SSM	02/04/25 15:37
Total/NA	Analysis	200.8		10	4835	CW	EET SSM	02/05/25 14:15
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	642849	S4FJ	EET CLE	01/28/25 18:20
Total Recoverable	Analysis	2340 B-2021		1	643365	KLC	EET CLE	02/03/25 10:14
Total/NA	Prep	245.1-1994 R3.0			642676	MN7X	EET CLE	01/27/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	642857	GEV	EET CLE	01/28/25 13:52
Total/NA	Analysis	2320 B-2021		1	642804	PQD2	EET CLE	01/27/25 14:13
Total/NA	Analysis	2540 C-2020		1	642800	TAV2	EET CLE	01/28/25 09:59
Total/NA	Analysis	2540D-2020		1	642672	C5SV	EET CLE	01/27/25 10:24
Total/NA	Analysis	300.0-1993 R2.1		1	642682	JMR	EET CLE	01/27/25 13:20
Total/NA	Analysis	300.0-1993 R2.1		5	642682	JMR	EET CLE	01/27/25 14:25
Total/NA	Prep	PrecSep-21			700312	OGC	EET SL	01/29/25 07:58
Total/NA	Analysis	903.0		1	703901	SWS	EET SL	02/20/25 07:35
Total/NA	Prep	PrecSep_0			700314	OGC	EET SL	01/29/25 08:01
Total/NA	Analysis	904.0		1	703039	SWS	EET SL	02/14/25 11:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	704548	CAH	EET SL	02/24/25 10:58

Client Sample ID: L501182-02 MW17B

Lab Sample ID: 240-218141-2

Date Collected: 01/23/25 11:46

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	643012	AJC	EET CLE	01/29/25 15:00
Total/NA	Prep	200.8			4800	RMN	EET SSM	02/04/25 15:37
Total/NA	Analysis	200.8		1	4835	CW	EET SSM	02/05/25 13:58
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	642849	S4FJ	EET CLE	01/28/25 18:23
Total Recoverable	Analysis	2340 B-2021		1	643365	KLC	EET CLE	02/03/25 10:14
Total/NA	Prep	245.1-1994 R3.0			642676	MN7X	EET CLE	01/27/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	642857	GEV	EET CLE	01/28/25 13:57
Total/NA	Analysis	2320 B-2021		1	642804	PQD2	EET CLE	01/27/25 14:20
Total/NA	Analysis	2540 C-2020		1	642800	TAV2	EET CLE	01/28/25 09:59
Total/NA	Analysis	2540D-2020		1	642672	C5SV	EET CLE	01/27/25 10:24
Total/NA	Analysis	300.0-1993 R2.1		1	642682	JMR	EET CLE	01/27/25 15:30
Total/NA	Analysis	300.0-1993 R2.1		5	642682	JMR	EET CLE	01/27/25 15:52
Total/NA	Prep	PrecSep-21			700312	OGC	EET SL	01/29/25 07:58
Total/NA	Analysis	903.0		1	703902	SWS	EET SL	02/20/25 07:44
Total/NA	Prep	PrecSep_0			700314	OGC	EET SL	01/29/25 08:01
Total/NA	Analysis	904.0		1	703039	SWS	EET SL	02/14/25 11:51

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-02 MW17B

Lab Sample ID: 240-218141-2

Date Collected: 01/23/25 11:46

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Ra226_Ra228 Pos		1	704548	CAH	EET SL	02/24/25 10:58

Client Sample ID: L501182-03 MW17C

Lab Sample ID: 240-218141-3

Date Collected: 01/23/25 13:32

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	643012	AJC	EET CLE	01/29/25 15:04
Total/NA	Prep	200.8			4800	RMN	EET SSM	02/04/25 15:37
Total/NA	Analysis	200.8		1	4835	CW	EET SSM	02/05/25 14:00
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	642849	S4FJ	EET CLE	01/28/25 18:31
Total Recoverable	Analysis	2340 B-2021		1	643365	KLC	EET CLE	02/03/25 10:14
Total/NA	Prep	245.1-1994 R3.0			642676	MN7X	EET CLE	01/27/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	642857	GEV	EET CLE	01/28/25 14:06
Total/NA	Analysis	2320 B-2021		1	642804	PQD2	EET CLE	01/27/25 14:24
Total/NA	Analysis	2540 C-2020		1	642800	TAV2	EET CLE	01/28/25 09:59
Total/NA	Analysis	2540D-2020		1	642672	C5SV	EET CLE	01/27/25 10:24
Total/NA	Analysis	300.0-1993 R2.1		1	642682	JMR	EET CLE	01/27/25 16:57
Total/NA	Analysis	300.0-1993 R2.1		5	642682	JMR	EET CLE	01/27/25 17:19
Total/NA	Prep	PrecSep-21			700312	OGC	EET SL	01/29/25 07:58
Total/NA	Analysis	903.0		1	703902	SWS	EET SL	02/20/25 07:44
Total/NA	Prep	PrecSep_0			700314	OGC	EET SL	01/29/25 08:01
Total/NA	Analysis	904.0		1	703039	SWS	EET SL	02/14/25 11:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	704548	CAH	EET SL	02/24/25 10:58

Client Sample ID: L501182-04 MW17D

Lab Sample ID: 240-218141-4

Date Collected: 01/23/25 14:44

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	643012	AJC	EET CLE	01/29/25 15:08
Total/NA	Prep	200.8			4800	RMN	EET SSM	02/04/25 15:37
Total/NA	Analysis	200.8		1	4835	CW	EET SSM	02/05/25 14:08
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	642849	S4FJ	EET CLE	01/28/25 18:39
Total Recoverable	Analysis	2340 B-2021		1	643365	KLC	EET CLE	02/03/25 10:14
Total/NA	Prep	245.1-1994 R3.0			642676	MN7X	EET CLE	01/27/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	642857	GEV	EET CLE	01/28/25 14:08
Total/NA	Analysis	2320 B-2021		1	642804	PQD2	EET CLE	01/27/25 14:29
Total/NA	Analysis	2540 C-2020		1	642800	TAV2	EET CLE	01/28/25 09:59
Total/NA	Analysis	2540D-2020		1	642672	C5SV	EET CLE	01/27/25 10:24

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-04 MW17D

Lab Sample ID: 240-218141-4

Date Collected: 01/23/25 14:44

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0-1993 R2.1		1	642682	JMR	EET CLE	01/27/25 17:40
Total/NA	Prep	PrecSep-21			700312	OGC	EET SL	01/29/25 07:58
Total/NA	Analysis	903.0		1	703902	SWS	EET SL	02/20/25 07:44
Total/NA	Prep	PrecSep_0			700314	OGC	EET SL	01/29/25 08:01
Total/NA	Analysis	904.0		1	703040	SWS	EET SL	02/14/25 12:00
Total/NA	Analysis	Ra226_Ra228 Pos		1	704548	CAH	EET SL	02/24/25 10:58

Client Sample ID: L501182-05 MW17E

Lab Sample ID: 240-218141-5

Date Collected: 01/23/25 16:01

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	643012	AJC	EET CLE	01/29/25 15:13
Total/NA	Prep	200.8			4800	RMN	EET SSM	02/04/25 15:37
Total/NA	Analysis	200.8		1	4835	CW	EET SSM	02/05/25 14:18
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	642849	S4FJ	EET CLE	01/28/25 18:48
Total Recoverable	Analysis	2340 B-2021		1	643365	KLC	EET CLE	02/03/25 10:14
Total/NA	Prep	245.1-1994 R3.0			642676	MN7X	EET CLE	01/27/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	642857	GEV	EET CLE	01/28/25 14:09
Total/NA	Analysis	2320 B-2021		1	642804	PQD2	EET CLE	01/27/25 14:35
Total/NA	Analysis	2540 C-2020		1	642800	TAV2	EET CLE	01/28/25 09:59
Total/NA	Analysis	2540D-2020		1	642672	C5SV	EET CLE	01/27/25 10:24
Total/NA	Analysis	300.0-1993 R2.1		1	642682	JMR	EET CLE	01/27/25 18:02
Total/NA	Prep	PrecSep-21			700312	OGC	EET SL	01/29/25 07:58
Total/NA	Analysis	903.0		1	703902	SWS	EET SL	02/20/25 07:44
Total/NA	Prep	PrecSep_0			700314	OGC	EET SL	01/29/25 08:01
Total/NA	Analysis	904.0		1	703040	SWS	EET SL	02/14/25 12:00
Total/NA	Analysis	Ra226_Ra228 Pos		1	704548	CAH	EET SL	02/24/25 10:58

Client Sample ID: L501182-06 MW18A

Lab Sample ID: 240-218141-6

Date Collected: 01/23/25 09:33

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	643012	AJC	EET CLE	01/29/25 15:17
Total/NA	Prep	200.8			4800	RMN	EET SSM	02/04/25 15:37
Total/NA	Analysis	200.8		1	4835	CW	EET SSM	02/05/25 14:20
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	642849	S4FJ	EET CLE	01/28/25 18:50
Total Recoverable	Analysis	2340 B-2021		1	643365	KLC	EET CLE	02/03/25 10:14

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Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-06 MW18A

Lab Sample ID: 240-218141-6

Date Collected: 01/23/25 09:33

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	245.1-1994 R3.0			642676	MN7X	EET CLE	01/27/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	642857	GEV	EET CLE	01/28/25 14:11
Total/NA	Analysis	2320 B-2021		1	642804	PQD2	EET CLE	01/27/25 14:40
Total/NA	Analysis	2540 C-2020		1	642800	TAV2	EET CLE	01/28/25 09:59
Total/NA	Analysis	2540D-2020		1	642672	C5SV	EET CLE	01/27/25 10:24
Total/NA	Analysis	300.0-1993 R2.1		1	642682	JMR	EET CLE	01/27/25 18:24
Total/NA	Prep	PrecSep-21			700312	OGC	EET SL	01/29/25 07:58
Total/NA	Analysis	903.0		1	703902	SWS	EET SL	02/20/25 07:44
Total/NA	Prep	PrecSep_0			700314	OGC	EET SL	01/29/25 08:01
Total/NA	Analysis	904.0		1	703040	SWS	EET SL	02/14/25 12:00
Total/NA	Analysis	Ra226_Ra228 Pos		1	704548	CAH	EET SL	02/24/25 10:58

Client Sample ID: L501182-07 MW18B

Lab Sample ID: 240-218141-7

Date Collected: 01/23/25 11:08

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	643012	AJC	EET CLE	01/29/25 15:21
Total/NA	Prep	200.8			4800	RMN	EET SSM	02/04/25 15:37
Total/NA	Analysis	200.8		1	4835	CW	EET SSM	02/05/25 14:23
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	642849	S4FJ	EET CLE	01/28/25 18:53
Total Recoverable	Analysis	2340 B-2021		1	643365	KLC	EET CLE	02/03/25 10:14
Total/NA	Prep	245.1-1994 R3.0			642676	MN7X	EET CLE	01/27/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	642857	GEV	EET CLE	01/28/25 14:13
Total/NA	Analysis	2320 B-2021		1	642804	PQD2	EET CLE	01/27/25 14:46
Total/NA	Analysis	2540 C-2020		1	642800	TAV2	EET CLE	01/28/25 09:59
Total/NA	Analysis	2540D-2020		1	642672	C5SV	EET CLE	01/27/25 10:24
Total/NA	Analysis	300.0-1993 R2.1		1	642682	JMR	EET CLE	01/27/25 19:07
Total/NA	Analysis	300.0-1993 R2.1		5	642682	JMR	EET CLE	01/27/25 19:29
Total/NA	Prep	PrecSep-21			700312	OGC	EET SL	01/29/25 07:58
Total/NA	Analysis	903.0		1	703902	SWS	EET SL	02/20/25 07:44
Total/NA	Prep	PrecSep_0			700314	OGC	EET SL	01/29/25 08:01
Total/NA	Analysis	904.0		1	703040	SWS	EET SL	02/14/25 12:00
Total/NA	Analysis	Ra226_Ra228 Pos		1	704548	CAH	EET SL	02/24/25 10:58

Client Sample ID: L501182-08 MW18C

Lab Sample ID: 240-218141-8

Date Collected: 01/23/25 12:43

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	643012	AJC	EET CLE	01/29/25 15:25

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Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-08 MW18C

Lab Sample ID: 240-218141-8

Date Collected: 01/23/25 12:43

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	200.8			4800	RMN	EET SSM	02/04/25 15:37
Total/NA	Analysis	200.8		1	4835	CW	EET SSM	02/05/25 14:26
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	642849	S4FJ	EET CLE	01/28/25 18:56
Total Recoverable	Analysis	2340 B-2021		1	643365	KLC	EET CLE	02/03/25 10:14
Total/NA	Prep	245.1-1994 R3.0			642676	MN7X	EET CLE	01/27/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	642857	GEV	EET CLE	01/28/25 14:14
Total/NA	Analysis	2320 B-2021		1	642804	PQD2	EET CLE	01/27/25 14:55
Total/NA	Analysis	2540 C-2020		1	642800	TAV2	EET CLE	01/28/25 09:59
Total/NA	Analysis	2540D-2020		1	642672	C5SV	EET CLE	01/27/25 10:24
Total/NA	Analysis	300.0-1993 R2.1		1	642682	JMR	EET CLE	01/27/25 19:51
Total/NA	Analysis	300.0-1993 R2.1		5	642682	JMR	EET CLE	01/27/25 20:12
Total/NA	Prep	PrecSep-21			700312	OGC	EET SL	01/29/25 07:58
Total/NA	Analysis	903.0		1	703902	SWS	EET SL	02/20/25 07:45
Total/NA	Prep	PrecSep_0			700314	OGC	EET SL	01/29/25 08:01
Total/NA	Analysis	904.0		1	703040	SWS	EET SL	02/14/25 12:00
Total/NA	Analysis	Ra226_Ra228 Pos		1	704548	CAH	EET SL	02/24/25 10:58

Client Sample ID: L501182-09 MW18D

Lab Sample ID: 240-218141-9

Date Collected: 01/23/25 14:08

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	643012	AJC	EET CLE	01/29/25 15:29
Total/NA	Prep	200.8			4800	RMN	EET SSM	02/04/25 15:37
Total/NA	Analysis	200.8		1	4835	CW	EET SSM	02/05/25 14:28
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	642849	S4FJ	EET CLE	01/28/25 18:59
Total Recoverable	Analysis	2340 B-2021		1	643365	KLC	EET CLE	02/03/25 10:14
Total/NA	Prep	245.1-1994 R3.0			642676	MN7X	EET CLE	01/27/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	642857	GEV	EET CLE	01/28/25 14:16
Total/NA	Analysis	2320 B-2021		1	642804	PQD2	EET CLE	01/27/25 15:00
Total/NA	Analysis	2540 C-2020		1	642800	TAV2	EET CLE	01/28/25 09:59
Total/NA	Analysis	2540D-2020		1	642672	C5SV	EET CLE	01/27/25 10:24
Total/NA	Analysis	300.0-1993 R2.1		1	642682	JMR	EET CLE	01/27/25 21:17
Total/NA	Prep	PrecSep-21			700312	OGC	EET SL	01/29/25 07:58
Total/NA	Analysis	903.0		1	703902	SWS	EET SL	02/20/25 07:45
Total/NA	Prep	PrecSep_0			700314	OGC	EET SL	01/29/25 08:01
Total/NA	Analysis	904.0		1	703040	SWS	EET SL	02/14/25 12:00
Total/NA	Analysis	Ra226_Ra228 Pos		1	704548	CAH	EET SL	02/24/25 10:58

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Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Client Sample ID: L501182-10 MWT-17A

Lab Sample ID: 240-218141-10

Date Collected: 01/23/25 09:37

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	643012	AJC	EET CLE	01/29/25 15:46
Total/NA	Prep	200.8			4800	RMN	EET SSM	02/04/25 15:37
Total/NA	Analysis	200.8		1	4835	CW	EET SSM	02/05/25 14:31
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	642849	S4FJ	EET CLE	01/28/25 19:04
Total Recoverable	Analysis	2340 B-2021		1	643365	KLC	EET CLE	02/03/25 10:14
Total/NA	Prep	245.1-1994 R3.0			642676	MN7X	EET CLE	01/27/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	642857	GEV	EET CLE	01/28/25 14:20
Total/NA	Analysis	2320 B-2021		1	643198	PQD2	EET CLE	01/30/25 20:12
Total/NA	Analysis	2540 C-2020		1	642800	TAV2	EET CLE	01/28/25 09:59
Total/NA	Analysis	2540D-2020		1	642672	C5SV	EET CLE	01/27/25 10:24
Total/NA	Analysis	300.0-1993 R2.1		1	642682	JMR	EET CLE	01/27/25 22:01
Total/NA	Analysis	300.0-1993 R2.1		5	642682	JMR	EET CLE	01/27/25 22:22
Total/NA	Prep	PrecSep-21			700312	OGC	EET SL	01/29/25 07:58
Total/NA	Analysis	903.0		1	703902	SWS	EET SL	02/20/25 07:45
Total/NA	Prep	PrecSep_0			700314	OGC	EET SL	01/29/25 08:01
Total/NA	Analysis	904.0		1	703040	SWS	EET SL	02/14/25 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	704548	CAH	EET SL	02/24/25 10:58

Client Sample ID: L501182-11 FIELD BLANK

Lab Sample ID: 240-218141-11

Date Collected: 01/23/25 08:20

Matrix: Water

Date Received: 01/25/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	643012	AJC	EET CLE	01/29/25 15:34
Total/NA	Prep	200.8			4800	RMN	EET SSM	02/04/25 15:37
Total/NA	Analysis	200.8		1	4835	CW	EET SSM	02/05/25 14:33
Total Recoverable	Prep	200.7			642669	MN7X	EET CLE	01/27/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	642849	S4FJ	EET CLE	01/28/25 19:01
Total Recoverable	Analysis	2340 B-2021		1	643365	KLC	EET CLE	02/03/25 10:14
Total/NA	Prep	245.1-1994 R3.0			642676	MN7X	EET CLE	01/27/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	642857	GEV	EET CLE	01/28/25 14:18
Total/NA	Analysis	2320 B-2021		1	642865	PQD2	EET CLE	01/28/25 14:03
Total/NA	Analysis	2540 C-2020		1	642800	TAV2	EET CLE	01/28/25 09:59
Total/NA	Analysis	2540D-2020		1	642672	C5SV	EET CLE	01/27/25 10:24
Total/NA	Analysis	300.0-1993 R2.1		1	642682	JMR	EET CLE	01/27/25 22:44
Total/NA	Prep	PrecSep-21			700312	OGC	EET SL	01/29/25 07:58
Total/NA	Analysis	903.0		1	703902	SWS	EET SL	02/20/25 07:45
Total/NA	Prep	PrecSep_0			700314	OGC	EET SL	01/29/25 08:01
Total/NA	Analysis	904.0		1	703040	SWS	EET SL	02/14/25 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	704548	CAH	EET SL	02/24/25 10:58

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566
EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4062	02-27-25

Laboratory: Eurofins Seattle Specialty Metals

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	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-27
ANAB	Dept. of Energy	L2236.01	01-19-27
ANAB	ISO/IEC 17025	L2236	01-19-27
California	State	2954	07-07-25
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

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	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-08-25
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	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
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	06-30-25
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
MI - RadChem Recognition	State	9005	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Cleveland

Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218141-1

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	06-30-25
Oklahoma	NELAP	9997	08-31-25
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

TAI-8210

Chain of Custody

Return Samples to Eurofins Marathon
3980 Overseas Hwy
Marathon, FL 33050

Contains Rush Work: ☐ Contains Methods That May Expire Soon: ☒

Client Contact Info	Project Info	Methods and Bottles
Name: Jennifer Caporale Address 1110 South Pennsylvania Address 2: City State Zip: Lansing, Michigan 48901 Phone: 517-702-6482 Email: Jennifer.Caporale@LBWL.com; Environmental_laboratory@ Deliverables:	Company: Lansing Board of Water & Light Purchase Order: Purchase Order not required Work Order: Requested TAT: 10_Days Project Number: 24034575 Sample State: MI Special Instructions: Please send EDD using Premium template with report, Please follow the attached RL's, All methods must be approved 40 CFR 136.	Project Manager: Howell, Leslie Project Reference: Sampler: Marc Wahrer & Julie Maltby Description: Erickson Wellfield Site Name: Erickson Projects

Samples								200.7 Total El	903.0 Stand	SM2340B To	2540C, Calc	904.0 Stand	245.1 Mercu	300.0 28D	2540D Solid	Ra226, 228/28	200.8 Project	2320B Bicar	200.8-1994	200.7 R4.4-1	300.0-1993	245.1-1994	Plastic 500m	Plastic 1 liter	Plastic 500m	Plastic 1 liter	Plastic 60 m	Total Bottle
#	Sample Name	Type	Matrix	Date/Time (24hr)	MS / MSD	Instructions/Comments	Lat/Long																					
1	L501182-01 MW-17A	Grab	Water	01/23/25 09:03				X	X	X	X	X	X	X	X	X	X						0	0	0	0	2	7
2	L501182-02 MW-17B	Grab	Water	01/23/25 11:46				X	X	X	X	X	X	X	X	X	X						0	0	0	0	2	7
3	L501182-03 MW-17C	Grab	Water	01/23/25 13:32				X	X	X	X	X	X	X	X	X	X						0	0	0	0	2	7
4	L501182-04 MW-17D	Grab	Water	01/23/25 14:44				X	X	X	X	X	X	X	X	X	X						0	0	0	0	2	7
5	L501182-05 MW-17E	Grab	Water	01/23/25 16:01				X	X	X	X	X	X	X	X	X	X						0	0	0	0	2	7
6	L501182-06 MW-18A	Grab	Water	01/23/25 09:33				X	X	X	X	X	X	X	X	X	X						0	0	0	0	2	7
7	L501182-07 MW-18B	Grab	Water	01/23/25 11:00				X	X	X	X	X	X	X	X	X	X						0	0	0	0	2	7
8	L501182-08 MW-18C	Grab	Water	01/23/25 12:43				X	X	X	X	X	X	X	X	X	X						0	0	0	0	2	7
9	L501182-09 MW-18D	Grab	Water	01/23/25 14:08				X	X	X	X	X	X	X	X	X	X						0	0	0	0	2	7
10	L501182-10 MWT-17A	Grab	Water	01/23/25 08:37				X	X	X	X	X	X	X	X	X	X						0	0	0	0	2	7
11	L501182-11 Field Blank	Grab	Water	01/23/25 08:20				X	X	X	X	X	X	X	X	X	X						0	0	0	0	2	7

Possible Hazards : Unknown

Sample Disposal (A fee may be assessed, if samples are retained longer than 1 month) : Disposal by Lab

Custody History (All dates and times have been converted to the Eastern time zone and are in 24 Hr format.)

eCOC Submitted By:	Date/Time:	Samples Relinquished To:	Date/Time:	Samples Received From:	Date/Time:	eCOC Finalized By:	Date/Time:
Jennifer Caporale	01/24/25 09:46	Eurofins Laboratory Jennifer Caporale	01/24/25 09:46	Eurofins Laboratory Morosko, Jessica A	01/25/25 08:45	Morosko, Jessica A	01/25/25 08:45

Coolers								
Cooler Name	Cooler Description	QR/Barcode	Uncorrected Cooler Temperature (?C)	Corrected Cooler Temperature	Thermometer ID	Temperature Checked By	Cooler Ice Type	Cooler Packing Type
MIC20250121A001								
MIC20250124A001								
MIC20250124A001								
MIC20250124A001								

3.2 Sampling Procedures

Appendix D of the HMP provides the sample collection and safety procedures (HDR, 2021). These same procedures will be followed for collection of Assessment Monitoring samples. Procedures are consistent with EPA guidelines and R 299.4440-4445 and R 299.4905-4908 of the Part 115 rules. BWL or a Contracted Consultant (CC) will collect all samples.

3.2.1 Quality Control

Quality Control (QC) checks of both the field procedures and laboratory analyses are described in the HMP and the same process will be used to assess and document data quality for assessment monitoring as described in the HMP for background and detection monitoring data. Laboratory data will be reviewed, validated and qualified if necessary prior to use. The laboratory data validation procedure is described in Section 3.5 of the HMP.

3.3 Monitoring Parameters and Analytical Methods

3.3.1 Sample Parameters

Parameters to be analyzed for each semiannual assessment monitoring event are shown on Table 4. These parameters include all of the constituents required for groundwater sampling by the Part 115. Analytical testing of water samples will be performed by the BWL approved contract laboratory. Field measurements will be collected by the sampling team during the purging process. The field measurements are specific conductance, temperature, dissolved oxygen, pH, turbidity, and oxidation/reduction potential (ORP).



Table 4. Groundwater Quality Parameters to be Analyzed	
Constituents Analyzed in Assessment Monitoring	
Boron	Fluoride
Calcium	Lead
Chloride	Lithium
Fluoride	Mercury
pH	Molybdenum
Sulfate	Selenium
Total Dissolved Solids (TDS)	Thallium
Antimony	Radium 226 and 228 combined
Arsenic	Iron
Barium	Copper

Table 5. Water Quality Parameters to be Analyzed

Cu, total	Copper	250 mL plastic	mg/L	Nitric Acid	200.8	6 mos	0.005
F	Fluoride	250 mL plastic	mg/L	None	9056	28 d	1.0
Fe, total	Iron	250 mL plastic	mg/L	Nitric Acid	300.0	6 mos	0.02
Pb, total	Lead	250 mL plastic	mg/L	Nitric Acid	200.8	6 mos	0.003
Li, total	Lithium	250 mL plastic	mg/L	Nitric Acid	200.8	6 mos	0.005
Hg, total	Mercury	250 mL plastic	mg/L	HNO ₃	245.1	28 d	0.0002
Mo, total	Molybdenum	250 mL plastic	mg/L	Nitric Acid	200.8	6 mos	0.005
Ni, total	Nickel	250 mL plastic	mg/L	Nitric Acid	200.8	6 mos	0.005
RA226/228	Radium 226 and 228 combined	(2) 1 L plastic	pCi/L	HNO ₃	SM 7500	6 mos	2.0 combined
Se, total	Selenium	250 mL plastic	mg/L	Nitric Acid	200.8	6 mos	0.005
Ag, total	Silver	250 mL plastic	mg/L	Nitric Acid	200.8	6 mos	0.0005
SO ₄	Sulfate	250 mL plastic	mg/L	Chill	300.0	28 d	10
Tl, total	Thallium	250 mL plastic	mg/L	Nitric Acid	200.8	6 mos	0.002
TDS	Total Dissolved Solids	1 L plastic	mg/L	None	SM 2540C	NA	20
TSS	Total Suspended Solids	1 L plastic	mg/L	None	SM 2540D	NA	3
V, total	Vanadium	250 mL plastic	mg/L	Nitric Acid	200.8	6 mos	0.005
Zn, total	Zinc	250 mL plastic	mg/L	Nitric Acid	200.8	6 mos	0.005

3.4 Data Validation

The processes for data review and validation for assessment monitoring will be consistent with that described in the HMP (HDR, 2021). BWL or its CC will perform the data validation, statistical analysis, interpretation, and reporting. The scanned field forms, the laboratory reports

Eurofins - Cleveland Sample Receipt Form/Narrative				Login # _____	
Barberton Facility					
Client <u>Lansing Board of Water Light</u>				Cooler unpacked by: <u>JMOROSKO</u>	
Cooler Received on <u>01/25/25</u>		Opened on <u>01/25/25</u>			
FedEx: 1 st Grd Exp		UPS FAS Waypoint		Client Drop Off Eurofins Courier Other	
Receipt After-hours Drop-off Date/Time				Storage Location	
Eurofins Cooler # <u>EC</u>		Foam Box		Client Cooler Box Other	
Packing material used. Bubble Wrap		Foam Plastic Bag		None Other	
COOLANT: <u>Wet Ice</u>		Blue Ice		Dry Ice Water None	
1 Cooler temperature upon receipt		☒ See Multiple Cooler Form			
IR GUN # <u>13</u>		(CF <u>10.0</u> °C)		Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>		☒ Yes ☐ No		Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC	
-Were the seals on the outside of the cooler(s) signed & dated?		☒ Yes ☐ No NA			
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?		☒ Yes ☐ No NA			
-Were tamper/custody seals intact and uncompromised?		☒ Yes ☐ No NA			
3 Shippers' packing slip attached to the cooler(s)?		☒ Yes ☐ No			
4 Did custody papers accompany the sample(s)?		☒ Yes ☐ No			
5 Were the custody papers relinquished & signed in the appropriate place?		☒ Yes ☐ No			
6 Was/were the person(s) who collected the samples clearly identified on the COC?		☒ Yes ☐ No			
7 Did all bottles arrive in good condition (Unbroken)?		☒ Yes ☐ No			
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?		☒ Yes ☐ No			
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		☒ Yes ☐ No			
10 Were correct bottle(s) used for the test(s) indicated?		☒ Yes ☐ No			
11 Sufficient quantity received to perform indicated analyses?		☒ Yes ☐ No			
12 Are these work share samples and all listed on the COC?		☒ Yes ☐ No			
If yes, Questions 13-17 have been checked at the originating laboratory					
13 Were all preserved sample(s) at the correct pH upon receipt?		☒ Yes ☐ No NA		pH Strip Lot# HC448976	
14 Were VOAs on the COC?		☒ Yes ☐ No			
15 Were air bubbles >6 mm in any VOA vials? Larger than this		☒ Yes ☐ No ☒ NA			
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____		☒ Yes ☐ No			
17 Was a LL Hg or Me Hg trip blank present? _____		☒ Yes ☐ No			
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other					
Concerning _____					

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES☐ additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s). _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

Login # : _____

☐ See Temperature Excursion Form

Temperature readings

<u>Chent Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservation</u>	<u>Preservation</u>
			<u>pH</u>	<u>Temp</u>	<u>Added</u>	<u>Lot Number</u>
L501182-01 MW17A	240-218141-A-1	Plastic 60 mL - unpreserved				
L501182-01 MW17A	240-218141-B-1	Plastic 60 mL - unpreserved				
L501182-01 MW17A	240-218141-C-1	Plastic 500ml - unpreserved				
L501182-01 MW17A	240-218141-D-1	Plastic 500ml - with Nitric Acid	<2			
L501182-01 MW17A	240-218141-E-1	Plastic 1 liter - unpreserved				
L501182-01 MW17A	240-218141-F-1	Plastic 1 liter - Nitric Acid	<2			
L501182-01 MW17A	240-218141-G-1	Plastic 1 liter - Nitric Acid	<2			
L501182-02 MW17B	240-218141-A-2	Plastic 60 mL - unpreserved				
L501182-02 MW17B	240-218141-B-2	Plastic 60 mL - unpreserved				
L501182-02 MW17B	240-218141-C-2	Plastic 500ml - unpreserved				
L501182-02 MW17B	240-218141-D-2	Plastic 500ml - with Nitric Acid	<2			
L501182-02 MW17B	240-218141-E-2	Plastic 1 liter - unpreserved				
L501182-02 MW17B	240-218141-F-2	Plastic 1 liter - Nitric Acid	<2			
L501182-02 MW17B	240-218141-G-2	Plastic 1 liter - Nitric Acid	<2			
L501182-03 MW17C	240-218141-A-3	Plastic 60 mL - unpreserved				
L501182-03 MW17C	240-218141-B-3	Plastic 60 mL - unpreserved				
L501182-03 MW17C	240-218141-C-3	Plastic 500ml - unpreserved				
L501182-03 MW17C	240-218141-D-3	Plastic 500ml - with Nitric Acid	<2			
L501182-03 MW17C	240-218141-E-3	Plastic 1 liter - unpreserved				
L501182-03 MW17C	240-218141-F-3	Plastic 1 liter - Nitric Acid	<2			
L501182-03 MW17C	240-218141-G-3	Plastic 1 liter - Nitric Acid	<2			
L501182-04 MW17D	240-218141-A-4	Plastic 60 mL - unpreserved				
L501182-04 MW17D	240-218141-B-4	Plastic 60 mL - unpreserved				
L501182-04 MW17D	240-218141-C-4	Plastic 500ml - unpreserved				
L501182-04 MW17D	240-218141-D-4	Plastic 500ml - with Nitric Acid	<2			
L501182-04 MW17D	240-218141-E-4	Plastic 1 liter - unpreserved				
L501182-04 MW17D	240-218141-F-4	Plastic 1 liter - Nitric Acid	<2			
L501182-04 MW17D	240-218141-G-4	Plastic 1 liter - Nitric Acid	<2			
L501182-05 MW17E	240-218141-A-5	Plastic 60 mL - unpreserved				
L501182-05 MW17E	240-218141-B-5	Plastic 60 mL - unpreserved				
L501182-05 MW17E	240-218141-C-5	Plastic 500ml - unpreserved				
L501182-05 MW17E	240-218141-D-5	Plastic 500ml - with Nitric Acid	<2			
L501182-05 MW17E	240-218141-E-5	Plastic 1 liter - unpreserved				
L501182-05 MW17E	240-218141-F-5	Plastic 1 liter - Nitric Acid	<2			
L501182-05 MW17E	240-218141-G-5	Plastic 1 liter - Nitric Acid	<2			

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Temp</u>	<u>Preservation</u> <u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
L501182-06 MW18A	240-218141-A-6	Plastic 60 mL - unpreserved				
L501182-06 MW18A	240-218141-B-6	Plastic 60 mL - unpreserved				
L501182-06 MW18A	240-218141-C-6	Plastic 500ml - unpreserved				
L501182-06 MW18A	240-218141-D-6	Plastic 500ml - with Nitric Acid	<2			
L501182-06 MW18A	240-218141-E-6	Plastic 1 liter - unpreserved				
L501182-06 MW18A	240-218141-F-6	Plastic 1 liter - Nitric Acid	<2			
L501182-06 MW18A	240-218141-G-6	Plastic 1 liter - Nitric Acid	<2			
L501182-07 MW18B	240-218141-A-7	Plastic 60 mL - unpreserved				
L501182-07 MW18B	240-218141-B-7	Plastic 60 mL - unpreserved				
L501182-07 MW18B	240-218141-C-7	Plastic 500ml - unpreserved				
L501182-07 MW18B	240-218141-D-7	Plastic 500ml - with Nitric Acid	<2			
L501182-07 MW18B	240-218141-E-7	Plastic 1 liter - unpreserved				
L501182-07 MW18B	240-218141-F-7	Plastic 1 liter - Nitric Acid	<2			
L501182-07 MW18B	240-218141-G-7	Plastic 1 liter - Nitric Acid	<2			
L501182-08 MW18C	240-218141-A-8	Plastic 60 mL - unpreserved				
L501182-08 MW18C	240-218141-B-8	Plastic 60 mL - unpreserved				
L501182-08 MW18C	240-218141-C-8	Plastic 500ml - unpreserved				
L501182-08 MW18C	240-218141-D-8	Plastic 500ml - with Nitric Acid	<2			
L501182-08 MW18C	240-218141-E-8	Plastic 1 liter - unpreserved				
L501182-08 MW18C	240-218141-F-8	Plastic 1 liter - Nitric Acid	<2			
L501182-08 MW18C	240-218141-G-8	Plastic 1 liter - Nitric Acid	<2			
L501182-09 MW18D	240-218141-A-9	Plastic 60 mL - unpreserved				
L501182-09 MW18D	240-218141-B-9	Plastic 60 mL - unpreserved				
L501182-09 MW18D	240-218141-C-9	Plastic 500ml - unpreserved				
L501182-09 MW18D	240-218141-D-9	Plastic 500ml - with Nitric Acid	<2			
L501182-09 MW18D	240-218141-E-9	Plastic 1 liter - unpreserved				
L501182-09 MW18D	240-218141-F-9	Plastic 1 liter - Nitric Acid	<2			
L501182-09 MW18D	240-218141-G-9	Plastic 1 liter - Nitric Acid	<2			
L501182-10 MWT-17A	240-218141-A-10	Plastic 60 mL - unpreserved				
L501182-10 MWT-17A	240-218141-B-10	Plastic 60 mL - unpreserved				
L501182-10 MWT-17A	240-218141-C-10	Plastic 500ml - unpreserved				
L501182-10 MWT-17A	240-218141-D-10	Plastic 500ml - with Nitric Acid	<2			
L501182-10 MWT-17A	240-218141-E-10	Plastic 1 liter - unpreserved				
L501182-10 MWT-17A	240-218141-F-10	Plastic 1 liter - Nitric Acid	<2			
L501182-10 MWT-17A	240-218141-G-10	Plastic 1 liter - Nitric Acid	<2			
L501182-01 FIELD BLANK	240-218141-A-11	Plastic 60 mL - unpreserved				
L501182-01 FIELD BLANK	240-218141-B-11	Plastic 60 mL - unpreserved				
L501182-01 FIELD BLANK	240-218141-C-11	Plastic 500ml - unpreserved				



<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Temp</u>	<u>Preservation</u> <u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
L501182-01 FIELD BLANK	240-218141-D-11	Plastic 500ml - with Nitric Acid	<2			
L501182-01 FIELD BLANK	240-218141-E-11	Plastic 1 liter - unpreserved				
L501182-01 FIELD BLANK	240-218141-F-11	Plastic 1 liter - Nitric Acid	<2			
L501182-01 FIELD BLANK	240-218141-G-11	Plastic 1 liter - Nitric Acid	<2			

Eurofins Cleveland

180 S. Van Buren Avenue

Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Howell, Leslie		Carrier Tracking No(s): N/A		COC No: 240-197129.1															
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Leslie.Howell@eurofinsus.com		State of Origin: Michigan		Page: Page 1 of 2															
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note): NELAP - Oregon				Job #: 240-218141-1															
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: N/A Project Name: Erickson Projects Site: N/A		Due Date Requested: 2/3/2025 TAT Requested (days): N/A		Analysis Requested						Preservation Codes: -													
		PO #: N/A WO #: N/A Project #: 24034575 SSOW#: N/A								Other: N/A													
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=soil/sediment, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		903.0/PrecSep_21 Standard Target List		904.0/PrecSep_0 Standard Target List		Ra226_228AS_P		Total Number of containers		Special Instructions/Note:	
L501182-01 MW17A (240-218141-1)		1/23/25		09:37 Eastern		G		Water				X		X		X						2	
L501182-02 MW17B (240-218141-2)		1/23/25		11:46 Eastern		G		Water				X		X		X						2	
L501182-03 MW17C (240-218141-3)		1/23/25		13:32 Eastern		G		Water				X		X		X						2	
L501182-04 MW17D (240-218141-4)		1/23/25		14:44 Eastern		G		Water				X		X		X						2	
L501182-05 MW17E (240-218141-5)		1/23/25		16:01 Eastern		G		Water				X		X		X						2	
L501182-06 MW18A (240-218141-6)		1/23/25		09:33 Eastern		G		Water				X		X		X						2	
L501182-07 MW18B (240-218141-7)		1/23/25		11:08 Eastern		G		Water				X		X		X						2	
L501182-08 MW18C (240-218141-8)		1/23/25		12:43 Eastern		G		Water				X		X		X						2	
L501182-09 MW18D (240-218141-9)		1/23/25		14:08 Eastern		G		Water				X		X		X						2	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.																							
Possible Hazard Identification												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Unconfirmed												☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months											
Deliverable Requested: I, II, III, IV, Other (specify)												Primary Deliverable Rank: 2											
Special Instructions/QC Requirements:																							
Empty Kit Relinquished by:												Date:											
Date/Time:												Time:											
Relinquished by: MALISSA LOAR												Date/Time: 1-27-25											
Company:												Received by: Cheyenne Forrest											
Date/Time:												Date/Time: 0905 JAN 28 2025											
Relinquished by:												Company:											
Date/Time:												Date/Time:											
Relinquished by:												Company:											
Date/Time:												Date/Time:											
Custody Seals Intact: ☐ Yes ☐ No												Custody Seal No.:											
Cooler Temperature(s) °C and Other Remarks:																							

Ver: 10/10/2024

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Ver: 10/10/2024

Eurofins Cleveland

180 S. Van Buren Avenue

Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Howell, Leslie		Carrier Tracking No(s): N/A		COC No: 240-197658.1			
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Leslie.Howell@et.eurofinsus.com		State of Origin: Michigan		Page: Page 1 of 2			
Company: Eurofins Environment Testing Northwest				Accreditations Required (See note): NELAP - Oregon				Job #: 240-218141-1			
Address: 5755 8th Street East, ,		Due Date Requested: 2/24/2025		Analysis Requested						Preservation Codes: -	
City: Tacoma		TAT Requested (days): N/A									
State, Zip: WA, 98424											
Phone: 253-922-2310(Tel)		PO #: N/A									
Email: N/A		WO #: N/A									
Project Name: Erickson Projects		Project #: 24034575								Other: N/A	
Site: N/A		SSOW#: N/A									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MS (Yes or No)	200.8 CWA/200.8 P_TOT (MOD) Custom List 2: 2-3 Metals	Total Number of Containers	Special Instructions/Note:	
				Preservation Code:							
L501182-01 MW17A (240-218141-1)		1/23/25	09:37 Eastern	G	Water		X		1		
L501182-02 MW17B (240-218141-2)		1/23/25	11:46 Eastern	G	Water		X		1		
L501182-03 MW17C (240-218141-3)		1/23/25	13:32 Eastern	G	Water		X		1		
L501182-04 MW17D (240-218141-4)		1/23/25	14:44 Eastern	G	Water		X		1		
L501182-05 MW17E (240-218141-5)		1/23/25	16:01 Eastern	G	Water		X		1		
L501182-06 MW18A (240-218141-6)		1/23/25	09:33 Eastern	G	Water		X		1		
L501182-07 MW18B (240-218141-7)		1/23/25	11:08 Eastern	G	Water		X		1		
L501182-08 MW18C (240-218141-8)		1/23/25	12:43 Eastern	G	Water		X		1		
L501182-09 MW18D (240-218141-9)		1/23/25	14:08 Eastern	G	Water		X		1		
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said c											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if sam					
Unconfirmed						☐ Return To Client ☐ Disposal By Lab					
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:					
Primary Deliverable Rank: 2											
Empty Kit Relinquished by:						Method of Ship.					
Relinquished by: MALISSA LOAR						Date/Time: 2/3/25					
Relinquished by:						Date/Time:					
Relinquished by:						Date/Time:					
Custody Seals Intact: Δ Yes Δ No						Custody Seal No.:					
						Cooler Temperature(s) °C and Other Remarks:					

Therm. ID: SCO Cust. Seal: Y
Uncorr./Corr. Temp: 3.8/13.5 °C
Delivery: UPS / FedEx / Other:
Ice Type: Blue / Dry / Wet / None
Label Ver: V Packing: B

Eurofins Cleveland

180 S. Van Buren Avenue

Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Howell, Leslie		Carrier Tracking No(s): N/A		COC No: 240-197658.1							
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Leslie.Howell@et.eurofinsus.com		State of Origin: Michigan		Page: Page 1 of 2							
Company: Eurofins Environment Testing Northwest,				Accreditations Required (See note): NELAP - Oregon				Job #: 240-218141-1							
Address: 5755 8th Street East,		Due Date Requested: 2/24/2025		Analysis Requested						Preservation Codes: -					
City: Tacoma		TAT Requested (days): N/A													
State, Zip: WA, 98424		PO #: N/A													
Phone: 253-922-2310(Tel)		WO #: N/A													
Email: N/A		Project #: 24034575													
Project Name: Erickson Projects		SSOW#: N/A								Other: N/A					
Site: N/A															
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes/No)						Special Instructions/Note:			
						Preservation Code:									
L501182-01 MW17A (240-218141-1)		1/23/25	09:37 Eastern	G	Water			X						1	
L501182-02 MW17B (240-218141-2)		1/23/25	11:46 Eastern	G	Water			X						1	
L501182-03 MW17C (240-218141-3)		1/23/25	13:32 Eastern	G	Water			X						1	
L501182-04 MW17D (240-218141-4)		1/23/25	14:44 Eastern	G	Water			X						1	
L501182-05 MW17E (240-218141-5)		1/23/25	16:01 Eastern	G	Water			X						1	
L501182-06 MW18A (240-218141-6)		1/23/25	09:33 Eastern	G	Water			X						1	
L501182-07 MW18B (240-218141-7)		1/23/25	11:08 Eastern	G	Water			X						1	
L501182-08 MW18C (240-218141-8)		1/23/25	12:43 Eastern	G	Water			X						1	
L501182-09 MW18D (240-218141-9)		1/23/25	14:08 Eastern	G	Water			X						1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said o															
Possible Hazard Identification										Sample Disposal (A fee may be assessed if sam					
Unconfirmed										☐ Return To Client ☐ Disposal By Lab					
Deliverable Requested: I, II, III, IV, Other (specify)										Primary Deliverable Rank: 2					
Special Instructions/QC Requirements:															
Empty Kit Relinquished by:										Date:					
Relinquished by:										Time:					
Relinquished by:										Method of Ship:					
Relinquished by:										Date/Time:					
Relinquished by:										Date/Time:					
Relinquished by:										Date/Time:					
Custody Seals Intact:										Cooler Temperature(s) °C and Other Remarks:					
Δ Yes Δ No										Custody Seal No.:					

Therm. ID: SC04 Cust. Seal: 0
Uncorr./Corr. Temp: 13.8/13.5 °C
Delivery: UPS / FedEx / Other
Ice Type: Blue / Dry / Wet / None
Label Ver.: V Packing: B

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-218141-1

Login Number: 218141

List Number: 3

Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals

List Creation: 02/04/25 02:08 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.	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	
Is the Field Sampler's name present on COC?	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	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-218141-1

Login Number: 218141

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 01/28/25 12:32 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ 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.	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	
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jennifer Caporale
Lansing Board of Water & Light
1110 South Pennsylvania
Lansing, Michigan 48901

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JOB DESCRIPTION

Erickson Projects

JOB NUMBER

240-218633-1

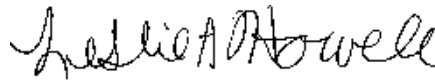
Eurofins Cleveland

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 Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: Lansing Board of Water & Light
Project: Erickson Projects

Job ID: 240-218633-1

Job ID: 240-218633-1

Eurofins Cleveland

Job Narrative 240-218633-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/7/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 1.2°C, 1.7°C, 2.1°C, 2.1°C, 2.2°C, 2.6°C, 2.8°C and 3.1°C.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540D: The sample duplicate (DUP) precision for analytical batch 240-644521 was outside control limits. Sample non-homogeneity is suspected.

Method 2540D: The sample duplicate (DUP) precision for analytical batch 240-644521 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gas Flow Proportional Counter

Method 904.0: Radium 228 Batch 702326

The detection goal was not met for the following sample due to a reduced sample volume used in prep attributed to the presence of matrix interferences. L502153-10 MW-14 (240-218633-10)

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.

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Method Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method	Method Description	Protocol	Laboratory
200.7 R4.4-1994	Metals (ICP)	EPA	EET CLE
200.8	Metals (ICP/MS)	EPA	EET SSM
200.8-1994 R5.4	Metals (ICP/MS)	EPA	EET CLE
2340 B-2021	Total Hardness (as CaCO3) by calculation	SM	EET CLE
245.1-1994 R3.0	Mercury (CVAA)	EPA	EET CLE
2320 B-2021	Alkalinity	SM	EET CLE
2540 C-2020	Solids, Total Dissolved (TDS)	SM	EET CLE
2540D-2020	Solids, Total Suspended (TSS)	SM	EET CLE
300.0-1993 R2.1	Anions, Ion Chromatography	EPA	EET CLE
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
Pos			
200.7	Preparation, Total Recoverable Metals	EPA	EET CLE
200.8	Preparation, Total Metals	EPA	EET SSM
200.8-1994 R5.4	Preparation, Total Recoverable Metals	EPA	EET CLE
245.1-1994 R3.0	Preparation, Mercury	EPA	EET CLE
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

SM = "Standard Methods For The Examination Of Water And Wastewater"

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-218633-1	L502153-01 MW-1	Water	02/04/25 16:25	02/07/25 08:00
240-218633-2	L502153-02 MW-2	Water	02/04/25 12:30	02/07/25 08:00
240-218633-3	L502153-03 MW-4	Water	02/04/25 14:20	02/07/25 08:00
240-218633-4	L502153-04 MW-5	Water	02/04/25 16:57	02/07/25 08:00
240-218633-5	L502153-05 MW-6	Water	02/04/25 09:38	02/07/25 08:00
240-218633-6	L502153-06 MW-11	Water	02/04/25 10:40	02/07/25 08:00
240-218633-7	L502153-07 MW-11B	Water	02/04/25 11:52	02/07/25 08:00
240-218633-8	L502153-08 MW-12	Water	02/04/25 14:16	02/07/25 08:00
240-218633-9	L502153-09 MW-12B	Water	02/04/25 15:49	02/07/25 08:00
240-218633-10	L502153-10 MW-14	Water	02/04/25 07:55	02/07/25 08:00
240-218633-11	L502153-11 MW-15	Water	02/04/25 13:35	02/07/25 08:00
240-218633-12	L502153-12 MWT-6	Water	02/04/25 09:38	02/07/25 08:00
240-218633-13	L502153-13 FB	Water	02/04/25 06:55	02/07/25 08:00
240-218633-14	L502160-01 MW-7	Water	02/05/25 14:56	02/07/25 08:00
240-218633-15	L502160-02 MW-7B	Water	02/05/25 16:09	02/07/25 08:00
240-218633-16	L502160-03 MW-7C	Water	02/05/25 17:24	02/07/25 08:00
240-218633-17	L502160-04 MW-8	Water	02/05/25 13:36	02/07/25 08:00
240-218633-18	L502160-05 MW-9	Water	02/05/25 12:14	02/07/25 08:00
240-218633-19	L502160-06 MW-10	Water	02/05/25 10:53	02/07/25 08:00
240-218633-20	L502160-07 FB	Water	02/05/25 10:00	02/07/25 08:00
240-218633-21	L502161-01 MW-100A	Water	02/05/25 16:15	02/07/25 08:00
240-218633-22	L502161-02 MW-100B	Water	02/05/25 12:45	02/07/25 08:00
240-218633-23	L502161-03 MW-100C	Water	02/05/25 14:07	02/07/25 08:00
240-218633-24	L502161-04 MW-100D	Water	02/05/25 15:40	02/07/25 08:00
240-218633-25	L502161-05 MWT-100C	Water	02/05/25 14:07	02/07/25 08:00

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-01 MW-1

Lab Sample ID: 240-218633-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.19		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total
									Recoverable
Boron, dissolved	180		100	57	ug/L	1		200.7 R4.4-1994	Dissolved
Arsenic	0.0046	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Barium	0.087		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Cobalt	0.0018		0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Chromium	0.0018	J	0.0050	0.0012	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Molybdenum	0.0023	J	0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Vanadium	0.0027	J	0.0050	0.00082	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Calcium	160		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Magnesium	50		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Lithium	0.011		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Arsenic, Dissolved	3.0	J	5.0	0.75	ug/L	1		200.8-1994 R5.4	Dissolved
Barium, Dissolved	78		5.0	0.77	ug/L	1		200.8-1994 R5.4	Dissolved
Cobalt, Dissolved	1.5		1.0	0.086	ug/L	1		200.8-1994 R5.4	Dissolved
Molybdenum, dissolved	1.5	J	5.0	1.1	ug/L	1		200.8-1994 R5.4	Dissolved
Calcium, Dissolved	140000		1000	250	ug/L	1		200.8-1994 R5.4	Dissolved
Magnesium, Dissolved	45000		1000	61	ug/L	1		200.8-1994 R5.4	Dissolved
Lithium, dissolved	8.5		8.0	3.4	ug/L	1		200.8-1994 R5.4	Dissolved
Iron	5.7		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0044	J B	0.0070	0.00093	mg/L	1		200.8	Total/NA
Iron, Dissolved	5.5		0.10	0.013	mg/L	1		200.8	Dissolved
Zinc, Dissolved	0.00097	J B	0.0070	0.00093	mg/L	1		200.8	Dissolved
Hardness as calcium carbonate	600		33	33	mg/L	1		2340 B-2021	Total
									Recoverable
Bicarbonate Alkalinity as CaCO3	520		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	660		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	35		4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	44		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.11		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	51		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-02 MW-2

Lab Sample ID: 240-218633-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	3.3		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total
									Recoverable
Barium	0.040		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Cadmium	0.000099	J	0.0010	0.000077	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Cobalt	0.0036		0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Molybdenum	0.010		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Nickel	0.012		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-02 MW-2 (Continued)

Lab Sample ID: 240-218633-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Calcium	190		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	50		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.038		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	0.22		0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.0019	J B	0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	690		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	460		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	910		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	3.6	J	4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	59		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.062		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	220		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-03 MW-4

Lab Sample ID: 240-218633-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.073	J	0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0056		0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.16		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cadmium	0.000085	J	0.0010	0.000077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.00023	J	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0047	J	0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Antimony	0.00065	J	0.0020	0.00057	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	110		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	37		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.011		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	0.96		0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.0014	J B	0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	420		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	320		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	510		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	1.4	J	4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	66		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.15		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	56		1.0	0.35	mg/L	1			300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-04 MW-5

Lab Sample ID: 240-218633-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	3.9		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-04 MW-5 (Continued)

Lab Sample ID: 240-218633-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron, dissolved	4000		100	57	ug/L	1			200.7 R4.4-1994	Dissolved
Silver	0.000088	J	0.0010	0.000053	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.043		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cadmium	0.000092	J	0.0010	0.000077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.00062	J	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Chromium	0.0014	J	0.0050	0.0012	mg/L	1			200.8-1994 R5.4	Total Recoverable
Copper	0.0026		0.0020	0.0017	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.058		0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.0047		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lead	0.00069	J	0.0010	0.00045	mg/L	1			200.8-1994 R5.4	Total Recoverable
Vanadium	0.0015	J	0.0050	0.00082	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	150		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	34		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.060		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium, Dissolved	38		5.0	0.77	ug/L	1			200.8-1994 R5.4	Dissolved
Cobalt, Dissolved	0.32	J	1.0	0.086	ug/L	1			200.8-1994 R5.4	Dissolved
Molybdenum, dissolved	53		5.0	1.1	ug/L	1			200.8-1994 R5.4	Dissolved
Nickel, Dissolved	3.8		2.0	1.5	ug/L	1			200.8-1994 R5.4	Dissolved
Calcium, Dissolved	140000		1000	250	ug/L	1			200.8-1994 R5.4	Dissolved
Magnesium, Dissolved	31000		1000	61	ug/L	1			200.8-1994 R5.4	Dissolved
Lithium, dissolved	56		8.0	3.4	ug/L	1			200.8-1994 R5.4	Dissolved
Iron	0.16		0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.0037	J B	0.0070	0.00093	mg/L	1			200.8	Total/NA
Iron, Dissolved	0.12		0.10	0.013	mg/L	1			200.8	Dissolved
Zinc, Dissolved	0.0044	J B	0.0070	0.00093	mg/L	1			200.8	Dissolved
Hardness as calcium carbonate	510		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	240		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	760		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	8.7		4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	34		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.11		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	310		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-05 MW-6

Lab Sample ID: 240-218633-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	1.0		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Barium	0.062		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cadmium	0.00015	J	0.0010	0.000077	mg/L	1			200.8-1994 R5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-05 MW-6 (Continued)

Lab Sample ID: 240-218633-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cobalt	0.00053	J	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.029		0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.0033		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	200		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	48		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.067		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Zinc	0.0020	J B	0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	690		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	440		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	900		10	7.8	mg/L	1			2540 C-2020	Total/NA
Chloride	49		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.24		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	250		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-06 MW-11

Lab Sample ID: 240-218633-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.21		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.017		0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.18		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.00044	J	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0038	J	0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Vanadium	0.0025	J	0.0050	0.00082	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	130		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	37		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	20		0.50	0.067	mg/L	5			200.8	Total/NA
Hardness as calcium carbonate	480		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	460		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	580		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	44		8.0	0.80	mg/L	1			2540D-2020	Total/NA
Chloride	56		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.17		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-07 MW-11B

Lab Sample ID: 240-218633-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.69		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0037	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-07 MW-11B (Continued)

Lab Sample ID: 240-218633-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	0.068		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0027	J	0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	64		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	24		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.032		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	0.70		0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.0012	J B	0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	260		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	290		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	270		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	1.4	J	4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	0.84	J	1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.38		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	5.5		1.0	0.35	mg/L	1			300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-08 MW-12

Lab Sample ID: 240-218633-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.092	J	0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Boron, dissolved	73	J	100	57	ug/L	1			200.7 R4.4-1994	Dissolved
Arsenic	0.0014	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.050		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.0020		0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0050		0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.010		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	150		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	59		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.018		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Arsenic, Dissolved	1.0	J	5.0	0.75	ug/L	1			200.8-1994 R5.4	Dissolved
Barium, Dissolved	44		5.0	0.77	ug/L	1			200.8-1994 R5.4	Dissolved
Cobalt, Dissolved	1.5		1.0	0.086	ug/L	1			200.8-1994 R5.4	Dissolved
Molybdenum, dissolved	4.4	J	5.0	1.1	ug/L	1			200.8-1994 R5.4	Dissolved
Nickel, Dissolved	9.0		2.0	1.5	ug/L	1			200.8-1994 R5.4	Dissolved
Calcium, Dissolved	130000		1000	250	ug/L	1			200.8-1994 R5.4	Dissolved
Magnesium, Dissolved	53000		1000	61	ug/L	1			200.8-1994 R5.4	Dissolved
Lithium, dissolved	15		8.0	3.4	ug/L	1			200.8-1994 R5.4	Dissolved
Iron	1.2		0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.0025	J B	0.0070	0.00093	mg/L	1			200.8	Total/NA
Iron, Dissolved	0.92		0.10	0.013	mg/L	1			200.8	Dissolved
Zinc, Dissolved	0.0024	J B	0.0070	0.00093	mg/L	1			200.8	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-08 MW-12 (Continued)

Lab Sample ID: 240-218633-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil	Fac	D	Method	Prep Type
Hardness as calcium carbonate	620		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	560		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	870		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	15		4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	53		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.13		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	160		1.0	0.35	mg/L	1			300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-09 MW-12B

Lab Sample ID: 240-218633-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	3.3		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Barium	0.025		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	26		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	8.1		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.040		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	0.20		0.10	0.013	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	98		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	330		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	330		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	0.40	J	4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	0.92	J	1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.63		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	2.4		1.0	0.35	mg/L	1			300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-10 MW-14

Lab Sample ID: 240-218633-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	2.0		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0064		0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.14		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.00069	J	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.012		0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.0038		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Vanadium	0.0019	J	0.0050	0.00082	mg/L	1			200.8-1994 R5.4	Total Recoverable
Zinc	0.019	J	0.020	0.015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	160		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	44		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-10 MW-14 (Continued)

Lab Sample ID: 240-218633-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.099		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	15		0.50	0.067	mg/L	5		200.8	Total/NA
Zinc	0.018	B	0.0070	0.00093	mg/L	1		200.8	Total/NA
Zinc	0.019	J B	0.035	0.0046	mg/L	5		200.8	Total/NA
Hardness as calcium carbonate	590		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	570		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	750		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	37		8.0	0.80	mg/L	1		2540D-2020	Total/NA
Chloride	100		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.15		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	6.7		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-11 MW-15

Lab Sample ID: 240-218633-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.30		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.00097	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.059		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Selenium	0.019		0.0050	0.00089	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	150		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	38		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	0.031	J	0.10	0.013	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	520		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	330		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	650		10	7.8	mg/L	1		2540 C-2020	Total/NA
Chloride	91		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.047	J	0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	110		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-12 MWT-6

Lab Sample ID: 240-218633-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.99		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Barium	0.061		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cadmium	0.000081	J	0.0010	0.000077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cobalt	0.00054	J	0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.029		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Nickel	0.0032		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	190		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-12 MWT-6 (Continued)

Lab Sample ID: 240-218633-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	47		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.066		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Zinc	0.0011	J B	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	680		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	440		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	860		10	7.8	mg/L	1		2540 C-2020	Total/NA
Chloride	49		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.24		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	240		5.0	1.7	mg/L	5		300.0-1993 R2.1	Total/NA

Client Sample ID: L502153-13 FB

Lab Sample ID: 240-218633-13

No Detections.

Client Sample ID: L502160-01 MW-7

Lab Sample ID: 240-218633-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2.0		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.0027	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.048		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cobalt	0.00026	J	0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.17		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	110		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	14		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.075		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	0.90		0.10	0.013	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	320		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	190		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	610		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	0.60	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	81		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.37		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	190		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502160-02 MW-7B

Lab Sample ID: 240-218633-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2.8		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Barium	0.0075		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	7.6		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	2.4		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-02 MW-7B (Continued)

Lab Sample ID: 240-218633-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.031		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	0.095	J	0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0011	J B	0.0070	0.00093	mg/L	1		200.8	Total/NA
Bicarbonate Alkalinity as CaCO3	310		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Carbonate Alkalinity as CaCO3	8.0		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	350		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	0.90	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	0.82	J	1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.74		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	2.4		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502160-03 MW-7C

Lab Sample ID: 240-218633-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	6.2		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.0053		0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.039		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.35		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Nickel	0.0059		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	220		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	42		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.11		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	3.9		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0012	J B	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	720		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	140		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	1200		20	16	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	9.9		4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	83		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.24		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	640		5.0	1.7	mg/L	5		300.0-1993 R2.1	Total/NA

Client Sample ID: L502160-04 MW-8

Lab Sample ID: 240-218633-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.094	J	0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Barium	0.023		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0054		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	87		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	24		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-04 MW-8 (Continued)

Lab Sample ID: 240-218633-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.010		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Hardness as calcium carbonate	310		33	33	mg/L	1		2340 B-2021	Total
									Recoverable
Bicarbonate Alkalinity as CaCO3	300		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	360		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	0.50	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	38		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.054		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	25		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502160-05 MW-9

Lab Sample ID: 240-218633-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.017		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Calcium	96		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Magnesium	25		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Zinc	0.0012	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	340		33	33	mg/L	1		2340 B-2021	Total
									Recoverable
Bicarbonate Alkalinity as CaCO3	330		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	340		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	0.40	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	4.6		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	16		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502160-06 MW-10

Lab Sample ID: 240-218633-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.030		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Selenium	0.0015	J	0.0050	0.00089	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Calcium	120		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Magnesium	24		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Hardness as calcium carbonate	390		33	33	mg/L	1		2340 B-2021	Total
									Recoverable
Bicarbonate Alkalinity as CaCO3	370		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	360		10	7.8	mg/L	1		2540 C-2020	Total/NA
Chloride	1.5		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.050		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	14		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502160-07 FB

Lab Sample ID: 240-218633-20

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-01 MW-100A

Lab Sample ID: 240-218633-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.012		0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.19		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cobalt	0.00033	J	0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0069		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	89		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	39		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.011		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	2.3		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0028	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	380		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	360		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	360		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	4.6		4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	10		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.57		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	25		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502161-02 MW-100B

Lab Sample ID: 240-218633-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.30		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.0073		0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.14		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0065		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	89		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	32		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.019		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	2.2		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0019	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	350		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	270		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	440		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	5.6	J	8.0	0.80	mg/L	1		2540D-2020	Total/NA
Chloride	19		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.44		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	110		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-03 MW-100C

Lab Sample ID: 240-218633-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1.9		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Barium	0.062		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0011	J	0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	59		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	20		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.032		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	0.58		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0014	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	230		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	290		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	280		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	1.2	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	2.8		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.43		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	4.2		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502161-04 MW-100D

Lab Sample ID: 240-218633-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2.7		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.0016	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.0098		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0056		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	21		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	3.9		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.018		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	0.30		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0020	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	68		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	360		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	430		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	2.2	J	8.0	0.80	mg/L	1		2540D-2020	Total/NA
Chloride	6.2		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.85		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	33		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502161-05 MWT-100C

Lab Sample ID: 240-218633-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1.9		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-05 MWT-100C (Continued)

Lab Sample ID: 240-218633-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.064		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Molybdenum	0.0011	J	0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Calcium	60		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Magnesium	20		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Lithium	0.032		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total
									Recoverable
Iron	0.61		0.10	0.013	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	230		33	33	mg/L	1		2340 B-2021	Total
									Recoverable
Bicarbonate Alkalinity as CaCO3	290		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	270		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	1.1	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	2.7		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.43		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	4.3		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-01 MW-1

Lab Sample ID: 240-218633-1

Date Collected: 02/04/25 16:25

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.19		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 23:18	1

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, dissolved	180		100	57	ug/L		02/12/25 14:00	02/17/25 15:55	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 12:44	1
Arsenic	0.0046	J	0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 12:44	1
Barium	0.087		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 12:44	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 12:44	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 12:44	1
Cobalt	0.0018		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 12:44	1
Chromium	0.0018	J	0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 12:44	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 12:44	1
Molybdenum	0.0023	J	0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 12:44	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 12:44	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 12:44	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 12:44	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 12:44	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 12:44	1
Vanadium	0.0027	J	0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 12:44	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 12:44	1
Calcium	160		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 12:44	1
Magnesium	50		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 12:44	1
Lithium	0.011		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 12:44	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver, Dissolved	ND		1.0	0.053	ug/L		02/12/25 14:00	02/13/25 16:34	1
Arsenic, Dissolved	3.0	J	5.0	0.75	ug/L		02/12/25 14:00	02/13/25 16:34	1
Barium, Dissolved	78		5.0	0.77	ug/L		02/12/25 14:00	02/13/25 16:34	1
Beryllium, Dissolved	ND		1.0	0.27	ug/L		02/12/25 14:00	02/13/25 16:34	1
Cadmium, Dissolved	ND		1.0	0.077	ug/L		02/12/25 14:00	02/13/25 16:34	1
Cobalt, Dissolved	1.5		1.0	0.086	ug/L		02/12/25 14:00	02/13/25 16:34	1
Chromium, Dissolved	ND		5.0	1.2	ug/L		02/12/25 14:00	02/13/25 16:34	1
Copper, Dissolved	ND		2.0	1.7	ug/L		02/12/25 14:00	02/13/25 16:34	1
Molybdenum, dissolved	1.5	J	5.0	1.1	ug/L		02/12/25 14:00	02/13/25 16:34	1
Nickel, Dissolved	ND		2.0	1.5	ug/L		02/12/25 14:00	02/13/25 16:34	1
Lead, dissolved	ND		1.0	0.45	ug/L		02/12/25 14:00	02/13/25 16:34	1
Antimony, Dissolved	ND		2.0	0.57	ug/L		02/12/25 14:00	02/13/25 16:34	1
Selenium, Dissolved	ND		5.0	0.89	ug/L		02/12/25 14:00	02/13/25 16:34	1
Thallium, Dissolved	ND		1.0	0.51	ug/L		02/12/25 14:00	02/13/25 16:34	1
Vanadium, Dissolved	ND		5.0	0.82	ug/L		02/12/25 14:00	02/13/25 16:34	1
Calcium, Dissolved	140000		1000	250	ug/L		02/12/25 14:00	02/13/25 16:34	1
Magnesium, Dissolved	45000		1000	61	ug/L		02/12/25 14:00	02/13/25 16:34	1
Lithium, dissolved	8.5		8.0	3.4	ug/L		02/12/25 14:00	02/13/25 16:34	1

Eurofins Cleveland

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-01 MW-1

Lab Sample ID: 240-218633-1

Date Collected: 02/04/25 16:25

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5.7		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 15:16	1
Zinc	0.0044	J B	0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:16	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	5.5		0.10	0.013	mg/L		02/12/25 14:25	02/13/25 14:23	1
Zinc, Dissolved	0.00097	J B	0.0070	0.00093	mg/L		02/12/25 14:25	02/13/25 14:23	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	600		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:17	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	ND		0.20	0.13	ug/L		02/12/25 14:00	02/13/25 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	520		5.0	2.6	mg/L			02/11/25 23:12	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/11/25 23:12	1
Total Dissolved Solids (SM 2540 C-2020)	660		10	7.8	mg/L			02/10/25 10:53	1
Total Suspended Solids (SM 2540D-2020)	35		4.0	0.40	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	44		1.0	0.13	mg/L			02/11/25 21:39	1
Fluoride (EPA 300.0-1993 R2.1)	0.11		0.050	0.024	mg/L			02/11/25 21:39	1
Sulfate (EPA 300.0-1993 R2.1)	51		1.0	0.35	mg/L			02/11/25 21:39	1

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	0.0332	U	0.256	0.256	1.00	0.487	pCi/L	02/11/25 07:07	03/07/25 07:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					02/11/25 07:07	03/07/25 07:54	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	0.0833	U	0.422	0.422	1.00	0.778	pCi/L	02/11/25 07:11	03/06/25 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					02/11/25 07:11	03/06/25 12:26	1
Y Carrier	77.8		30 - 110					02/11/25 07:11	03/06/25 12:26	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-01 MW-1
Date Collected: 02/04/25 16:25
Date Received: 02/07/25 08:00

Lab Sample ID: 240-218633-1
Matrix: Water

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	0.116	U	0.494	0.494	5.00	0.778	pCi/L		03/07/25 16:17	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-02 MW-2

Lab Sample ID: 240-218633-2

Date Collected: 02/04/25 12:30

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.3		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 23:43	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 12:58	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 12:58	1
Barium	0.040		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 12:58	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 12:58	1
Cadmium	0.000099	J	0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 12:58	1
Cobalt	0.0036		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 12:58	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 12:58	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 12:58	1
Molybdenum	0.010		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 12:58	1
Nickel	0.012		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 12:58	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 12:58	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 12:58	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 12:58	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 12:58	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 12:58	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 12:58	1
Calcium	190		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 12:58	1
Magnesium	50		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 12:58	1
Lithium	0.038		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 12:58	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.22		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 15:19	1
Zinc	0.0019	J B	0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:19	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	690		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	460		5.0	2.6	mg/L			02/11/25 23:18	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/11/25 23:18	1
Total Dissolved Solids (SM 2540 C-2020)	910		10	7.8	mg/L			02/10/25 10:54	1
Total Suspended Solids (SM 2540D-2020)	3.6	J	4.0	0.40	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	59		1.0	0.13	mg/L			02/11/25 22:21	1
Fluoride (EPA 300.0-1993 R2.1)	0.062		0.050	0.024	mg/L			02/11/25 22:21	1
Sulfate (EPA 300.0-1993 R2.1)	220		5.0	1.7	mg/L			02/11/25 22:42	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-02 MW-2

Lab Sample ID: 240-218633-2

Date Collected: 02/04/25 12:30

Matrix: Water

Date Received: 02/07/25 08:00

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	0.144	U	0.182	0.183	1.00	0.303	pCi/L	02/11/25 07:07	03/07/25 07:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					02/11/25 07:07	03/07/25 07:48	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	0.0512	U	0.321	0.321	1.00	0.592	pCi/L	02/11/25 07:11	03/06/25 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					02/11/25 07:11	03/06/25 12:26	1
Y Carrier	78.1		30 - 110					02/11/25 07:11	03/06/25 12:26	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	0.195	U	0.369	0.369	5.00	0.592	pCi/L		03/07/25 16:17	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-03 MW-4

Lab Sample ID: 240-218633-3

Date Collected: 02/04/25 14:20

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.073	J	0.10	0.057	mg/L		02/10/25 14:00	02/11/25 23:56	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:06	1
Arsenic	0.0056		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:06	1
Barium	0.16		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:06	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:06	1
Cadmium	0.000085	J	0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:06	1
Cobalt	0.00023	J	0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:06	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:06	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:06	1
Molybdenum	0.0047	J	0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:06	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:06	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:06	1
Antimony	0.00065	J	0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:06	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:06	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:06	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:06	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:06	1
Calcium	110		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:06	1
Magnesium	37		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:06	1
Lithium	0.011		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:06	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.96		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 15:21	1
Zinc	0.0014	J B	0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:21	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	420		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	320		5.0	2.6	mg/L			02/11/25 23:26	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/11/25 23:26	1
Total Dissolved Solids (SM 2540 C-2020)	510		10	7.8	mg/L			02/10/25 13:54	1
Total Suspended Solids (SM 2540D-2020)	1.4	J	4.0	0.40	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	66		1.0	0.13	mg/L			02/11/25 23:03	1
Fluoride (EPA 300.0-1993 R2.1)	0.15		0.050	0.024	mg/L			02/11/25 23:03	1
Sulfate (EPA 300.0-1993 R2.1)	56		1.0	0.35	mg/L			02/11/25 23:03	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-03 MW-4

Lab Sample ID: 240-218633-3

Date Collected: 02/04/25 14:20

Matrix: Water

Date Received: 02/07/25 08:00

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	0.268	U	0.209	0.210	1.00	0.305	pCi/L	02/11/25 07:07	03/07/25 07:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.6		30 - 110					02/11/25 07:07	03/07/25 07:48	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	0.727		0.485	0.489	1.00	0.726	pCi/L	02/11/25 07:11	03/06/25 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.6		30 - 110					02/11/25 07:11	03/06/25 12:26	1
Y Carrier	78.5		30 - 110					02/11/25 07:11	03/06/25 12:26	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	0.995		0.528	0.532	5.00	0.726	pCi/L		03/07/25 16:17	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-04 MW-5

Lab Sample ID: 240-218633-4

Date Collected: 02/04/25 16:57

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.9		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:00	1

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, dissolved	4000		100	57	ug/L		02/12/25 14:00	02/17/25 16:00	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.000088	J	0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:09	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:09	1
Barium	0.043		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:09	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:09	1
Cadmium	0.000092	J	0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:09	1
Cobalt	0.00062	J	0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:09	1
Chromium	0.0014	J	0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:09	1
Copper	0.0026		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:09	1
Molybdenum	0.058		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:09	1
Nickel	0.0047		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:09	1
Lead	0.00069	J	0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:09	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:09	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:09	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:09	1
Vanadium	0.0015	J	0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:09	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:09	1
Calcium	150		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:09	1
Magnesium	34		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:09	1
Lithium	0.060		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:09	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver, Dissolved	ND		1.0	0.053	ug/L		02/12/25 14:00	02/13/25 16:37	1
Arsenic, Dissolved	ND		5.0	0.75	ug/L		02/12/25 14:00	02/13/25 16:37	1
Barium, Dissolved	38		5.0	0.77	ug/L		02/12/25 14:00	02/13/25 16:37	1
Beryllium, Dissolved	ND		1.0	0.27	ug/L		02/12/25 14:00	02/13/25 16:37	1
Cadmium, Dissolved	ND		1.0	0.077	ug/L		02/12/25 14:00	02/13/25 16:37	1
Cobalt, Dissolved	0.32	J	1.0	0.086	ug/L		02/12/25 14:00	02/13/25 16:37	1
Chromium, Dissolved	ND		5.0	1.2	ug/L		02/12/25 14:00	02/13/25 16:37	1
Copper, Dissolved	ND		2.0	1.7	ug/L		02/12/25 14:00	02/13/25 16:37	1
Molybdenum, dissolved	53		5.0	1.1	ug/L		02/12/25 14:00	02/13/25 16:37	1
Nickel, Dissolved	3.8		2.0	1.5	ug/L		02/12/25 14:00	02/13/25 16:37	1
Lead, dissolved	ND		1.0	0.45	ug/L		02/12/25 14:00	02/13/25 16:37	1
Antimony, Dissolved	ND		2.0	0.57	ug/L		02/12/25 14:00	02/13/25 16:37	1
Selenium, Dissolved	ND		5.0	0.89	ug/L		02/12/25 14:00	02/13/25 16:37	1
Thallium, Dissolved	ND		1.0	0.51	ug/L		02/12/25 14:00	02/13/25 16:37	1
Vanadium, Dissolved	ND		5.0	0.82	ug/L		02/12/25 14:00	02/13/25 16:37	1
Calcium, Dissolved	140000		1000	250	ug/L		02/12/25 14:00	02/13/25 16:37	1
Magnesium, Dissolved	31000		1000	61	ug/L		02/12/25 14:00	02/13/25 16:37	1
Lithium, dissolved	56		8.0	3.4	ug/L		02/12/25 14:00	02/13/25 16:37	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-04 MW-5

Lab Sample ID: 240-218633-4

Date Collected: 02/04/25 16:57

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.16		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 15:24	1
Zinc	0.0037	J B	0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:24	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	0.12		0.10	0.013	mg/L		02/12/25 14:25	02/13/25 14:26	1
Zinc, Dissolved	0.0044	J B	0.0070	0.00093	mg/L		02/12/25 14:25	02/13/25 14:26	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	510		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:22	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	ND		0.20	0.13	ug/L		02/12/25 14:00	02/13/25 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	240		5.0	2.6	mg/L			02/11/25 23:32	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/11/25 23:32	1
Total Dissolved Solids (SM 2540 C-2020)	760		10	7.8	mg/L			02/10/25 13:54	1
Total Suspended Solids (SM 2540D-2020)	8.7		4.0	0.40	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	34		1.0	0.13	mg/L			02/12/25 00:28	1
Fluoride (EPA 300.0-1993 R2.1)	0.11		0.050	0.024	mg/L			02/12/25 00:28	1
Sulfate (EPA 300.0-1993 R2.1)	310		5.0	1.7	mg/L			02/12/25 00:49	5

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	0.242	U	0.195	0.196	1.00	0.285	pCi/L	02/11/25 07:07	03/07/25 07:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		30 - 110					02/11/25 07:07	03/07/25 07:48	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	0.384	U	0.412	0.413	1.00	0.670	pCi/L	02/11/25 07:11	03/06/25 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		30 - 110					02/11/25 07:11	03/06/25 12:26	1
Y Carrier	77.8		30 - 110					02/11/25 07:11	03/06/25 12:26	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-04 MW-5

Lab Sample ID: 240-218633-4

Date Collected: 02/04/25 16:57

Matrix: Water

Date Received: 02/07/25 08:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.627	U	0.456	0.457	5.00	0.670	pCi/L		03/07/25 16:17	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-05 MW-6

Lab Sample ID: 240-218633-5

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:04	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:12	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:12	1
Barium	0.062		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:12	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:12	1
Cadmium	0.00015	J	0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:12	1
Cobalt	0.00053	J	0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:12	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:12	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:12	1
Molybdenum	0.029		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:12	1
Nickel	0.0033		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:12	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:12	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:12	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:12	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:12	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:12	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:12	1
Calcium	200		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:12	1
Magnesium	48		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:12	1
Lithium	0.067		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:12	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 15:32	1
Zinc	0.0020	J B	0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:32	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	690		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	440		5.0	2.6	mg/L			02/11/25 23:37	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/11/25 23:37	1
Total Dissolved Solids (SM 2540 C-2020)	900		10	7.8	mg/L			02/10/25 13:54	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	49		1.0	0.13	mg/L			02/12/25 01:10	1
Fluoride (EPA 300.0-1993 R2.1)	0.24		0.050	0.024	mg/L			02/12/25 01:10	1
Sulfate (EPA 300.0-1993 R2.1)	250		5.0	1.7	mg/L			02/12/25 01:31	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-05 MW-6

Lab Sample ID: 240-218633-5

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/07/25 08:00

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	0.261		0.183	0.185	1.00	0.255	pCi/L	02/11/25 07:07	03/07/25 07:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					02/11/25 07:07	03/07/25 07:48	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	0.265	0.266	1.00	0.544	pCi/L	02/11/25 07:11	03/06/25 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					02/11/25 07:11	03/06/25 12:26	1
Y Carrier	81.5		30 - 110					02/11/25 07:11	03/06/25 12:26	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	0.261	U	0.322	0.324	5.00	0.544	pCi/L		03/07/25 16:17	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-06 MW-11

Lab Sample ID: 240-218633-6

Date Collected: 02/04/25 10:40

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.21		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:08	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:15	1
Arsenic	0.017		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:15	1
Barium	0.18		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:15	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:15	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:15	1
Cobalt	0.00044	J	0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:15	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:15	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:15	1
Molybdenum	0.0038	J	0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:15	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:15	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:15	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:15	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:15	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:15	1
Vanadium	0.0025	J	0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:15	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:15	1
Calcium	130		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:15	1
Magnesium	37		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:15	1
Lithium	ND		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:15	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20		0.50	0.067	mg/L		02/12/25 14:31	02/13/25 15:38	5
Zinc	ND		0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:35	1
Zinc	ND		0.035	0.0046	mg/L		02/12/25 14:31	02/13/25 15:38	5

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	480		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	460		5.0	2.6	mg/L			02/11/25 23:54	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/11/25 23:54	1
Total Dissolved Solids (SM 2540 C-2020)	580		10	7.8	mg/L			02/10/25 13:54	1
Total Suspended Solids (SM 2540D-2020)	44		8.0	0.80	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	56		1.0	0.13	mg/L			02/12/25 01:52	1
Fluoride (EPA 300.0-1993 R2.1)	0.17		0.050	0.024	mg/L			02/12/25 01:52	1
Sulfate (EPA 300.0-1993 R2.1)	ND		1.0	0.35	mg/L			02/12/25 01:52	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-06 MW-11

Lab Sample ID: 240-218633-6

Date Collected: 02/04/25 10:40

Matrix: Water

Date Received: 02/07/25 08:00

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	0.433	U	0.304	0.306	1.00	0.441	pCi/L	02/11/25 07:07	03/07/25 07:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					02/11/25 07:07	03/07/25 07:49	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	0.359	U	0.402	0.403	1.00	0.654	pCi/L	02/11/25 07:11	03/06/25 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					02/11/25 07:11	03/06/25 12:26	1
Y Carrier	80.0		30 - 110					02/11/25 07:11	03/06/25 12:26	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	0.792		0.504	0.506	5.00	0.654	pCi/L		03/07/25 16:17	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-07 MW-11B

Lab Sample ID: 240-218633-7

Date Collected: 02/04/25 11:52

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.69		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:21	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:18	1
Arsenic	0.0037	J	0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:18	1
Barium	0.068		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:18	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:18	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:18	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:18	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:18	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:18	1
Molybdenum	0.0027	J	0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:18	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:18	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:18	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:18	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:18	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:18	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:18	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:18	1
Calcium	64		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:18	1
Magnesium	24		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:18	1
Lithium	0.032		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:18	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.70		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 15:41	1
Zinc	0.0012	J B	0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:41	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	260		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	290		5.0	2.6	mg/L			02/12/25 00:07	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 00:07	1
Total Dissolved Solids (SM 2540 C-2020)	270		10	7.8	mg/L			02/10/25 13:54	1
Total Suspended Solids (SM 2540D-2020)	1.4	J	4.0	0.40	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	0.84	J	1.0	0.13	mg/L			02/11/25 20:35	1
Fluoride (EPA 300.0-1993 R2.1)	0.38		0.050	0.024	mg/L			02/11/25 20:35	1
Sulfate (EPA 300.0-1993 R2.1)	5.5		1.0	0.35	mg/L			02/11/25 20:35	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-07 MW-11B

Lab Sample ID: 240-218633-7

Date Collected: 02/04/25 11:52

Matrix: Water

Date Received: 02/07/25 08:00

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	0.415		0.219	0.222	1.00	0.274	pCi/L	02/11/25 07:07	03/07/25 07:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					02/11/25 07:07	03/07/25 07:49	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	0.0980	U	0.389	0.390	1.00	0.695	pCi/L	02/11/25 07:11	03/06/25 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					02/11/25 07:11	03/06/25 12:26	1
Y Carrier	80.0		30 - 110					02/11/25 07:11	03/06/25 12:26	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	0.513	U	0.446	0.449	5.00	0.695	pCi/L		03/07/25 16:17	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-08 MW-12

Lab Sample ID: 240-218633-8

Date Collected: 02/04/25 14:16

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.092	J	0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:25	1

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, dissolved	73	J	100	57	ug/L		02/12/25 14:00	02/17/25 16:04	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:20	1
Arsenic	0.0014	J	0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:20	1
Barium	0.050		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:20	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:20	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:20	1
Cobalt	0.0020		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:20	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:20	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:20	1
Molybdenum	0.0050		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:20	1
Nickel	0.010		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:20	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:20	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:20	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:20	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:20	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:20	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:20	1
Calcium	150		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:20	1
Magnesium	59		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:20	1
Lithium	0.018		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:20	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver, Dissolved	ND		1.0	0.053	ug/L		02/12/25 14:00	02/13/25 16:39	1
Arsenic, Dissolved	1.0	J	5.0	0.75	ug/L		02/12/25 14:00	02/13/25 16:39	1
Barium, Dissolved	44		5.0	0.77	ug/L		02/12/25 14:00	02/13/25 16:39	1
Beryllium, Dissolved	ND		1.0	0.27	ug/L		02/12/25 14:00	02/13/25 16:39	1
Cadmium, Dissolved	ND		1.0	0.077	ug/L		02/12/25 14:00	02/13/25 16:39	1
Cobalt, Dissolved	1.5		1.0	0.086	ug/L		02/12/25 14:00	02/13/25 16:39	1
Chromium, Dissolved	ND		5.0	1.2	ug/L		02/12/25 14:00	02/13/25 16:39	1
Copper, Dissolved	ND		2.0	1.7	ug/L		02/12/25 14:00	02/13/25 16:39	1
Molybdenum, dissolved	4.4	J	5.0	1.1	ug/L		02/12/25 14:00	02/13/25 16:39	1
Nickel, Dissolved	9.0		2.0	1.5	ug/L		02/12/25 14:00	02/13/25 16:39	1
Lead, dissolved	ND		1.0	0.45	ug/L		02/12/25 14:00	02/13/25 16:39	1
Antimony, Dissolved	ND		2.0	0.57	ug/L		02/12/25 14:00	02/13/25 16:39	1
Selenium, Dissolved	ND		5.0	0.89	ug/L		02/12/25 14:00	02/13/25 16:39	1
Thallium, Dissolved	ND		1.0	0.51	ug/L		02/12/25 14:00	02/13/25 16:39	1
Vanadium, Dissolved	ND		5.0	0.82	ug/L		02/12/25 14:00	02/13/25 16:39	1
Calcium, Dissolved	130000		1000	250	ug/L		02/12/25 14:00	02/13/25 16:39	1
Magnesium, Dissolved	53000		1000	61	ug/L		02/12/25 14:00	02/13/25 16:39	1
Lithium, dissolved	15		8.0	3.4	ug/L		02/12/25 14:00	02/13/25 16:39	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-08 MW-12

Lab Sample ID: 240-218633-8

Date Collected: 02/04/25 14:16

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.2		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 15:43	1
Zinc	0.0025	J B	0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:43	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	0.92		0.10	0.013	mg/L		02/12/25 14:25	02/13/25 14:28	1
Zinc, Dissolved	0.0024	J B	0.0070	0.00093	mg/L		02/12/25 14:25	02/13/25 14:28	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	620		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:32	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	ND		0.20	0.13	ug/L		02/12/25 14:00	02/13/25 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	560		5.0	2.6	mg/L			02/12/25 00:14	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 00:14	1
Total Dissolved Solids (SM 2540 C-2020)	870		10	7.8	mg/L			02/10/25 13:54	1
Total Suspended Solids (SM 2540D-2020)	15		4.0	0.40	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	53		1.0	0.13	mg/L			02/12/25 02:35	1
Fluoride (EPA 300.0-1993 R2.1)	0.13		0.050	0.024	mg/L			02/12/25 02:35	1
Sulfate (EPA 300.0-1993 R2.1)	160		1.0	0.35	mg/L			02/12/25 02:35	1

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	0.170	U	0.161	0.162	1.00	0.247	pCi/L	02/11/25 07:07	03/07/25 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					02/11/25 07:07	03/07/25 09:44	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	1.33		0.580	0.593	1.00	0.777	pCi/L	02/11/25 07:11	03/06/25 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					02/11/25 07:11	03/06/25 14:20	1
Y Carrier	81.1		30 - 110					02/11/25 07:11	03/06/25 14:20	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-08 MW-12

Lab Sample ID: 240-218633-8

Date Collected: 02/04/25 14:16

Matrix: Water

Date Received: 02/07/25 08:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2 σ +/-)	Total Uncert. (2 σ +/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.51		0.602	0.615	5.00	0.777	pCi/L		03/07/25 16:17	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-09 MW-12B

Lab Sample ID: 240-218633-9

Date Collected: 02/04/25 15:49

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.3		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:29	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:23	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:23	1
Barium	0.025		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:23	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:23	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:23	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:23	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:23	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:23	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:23	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:23	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:23	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:23	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:23	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:23	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:23	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:23	1
Calcium	26		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:23	1
Magnesium	8.1		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:23	1
Lithium	0.040		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:23	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.20		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 15:46	1
Zinc	ND		0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:46	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	98		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	330		5.0	2.6	mg/L			02/12/25 00:21	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 00:21	1
Total Dissolved Solids (SM 2540 C-2020)	330		10	7.8	mg/L			02/10/25 13:54	1
Total Suspended Solids (SM 2540D-2020)	0.40	J	4.0	0.40	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	0.92	J	1.0	0.13	mg/L			02/12/25 03:17	1
Fluoride (EPA 300.0-1993 R2.1)	0.63		0.050	0.024	mg/L			02/12/25 03:17	1
Sulfate (EPA 300.0-1993 R2.1)	2.4		1.0	0.35	mg/L			02/12/25 03:17	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-09 MW-12B

Lab Sample ID: 240-218633-9

Date Collected: 02/04/25 15:49

Matrix: Water

Date Received: 02/07/25 08:00

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	0.470		0.220	0.224	1.00	0.257	pCi/L	02/11/25 07:07	03/07/25 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					02/11/25 07:07	03/07/25 09:44	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	1.31		0.536	0.550	1.00	0.678	pCi/L	02/11/25 07:11	03/06/25 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					02/11/25 07:11	03/06/25 14:20	1
Y Carrier	79.3		30 - 110					02/11/25 07:11	03/06/25 14:20	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	1.78		0.579	0.594	5.00	0.678	pCi/L		03/07/25 16:17	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-10 MW-14

Lab Sample ID: 240-218633-10

Date Collected: 02/04/25 07:55

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.0		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:34	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:32	1
Arsenic	0.0064		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:32	1
Barium	0.14		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:32	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:32	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:32	1
Cobalt	0.00069	J	0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:32	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:32	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:32	1
Molybdenum	0.012		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:32	1
Nickel	0.0038		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:32	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:32	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:32	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:32	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:32	1
Vanadium	0.0019	J	0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:32	1
Zinc	0.019	J	0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:32	1
Calcium	160		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:32	1
Magnesium	44		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:32	1
Lithium	0.099		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:32	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15		0.50	0.067	mg/L		02/12/25 14:31	02/13/25 15:52	5
Zinc	0.018	B	0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:49	1
Zinc	0.019	J B	0.035	0.0046	mg/L		02/12/25 14:31	02/13/25 15:52	5

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	590		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	570		5.0	2.6	mg/L			02/12/25 00:27	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 00:27	1
Total Dissolved Solids (SM 2540 C-2020)	750		10	7.8	mg/L			02/10/25 13:54	1
Total Suspended Solids (SM 2540D-2020)	37		8.0	0.80	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	100		1.0	0.13	mg/L			02/12/25 04:20	1
Fluoride (EPA 300.0-1993 R2.1)	0.15		0.050	0.024	mg/L			02/12/25 04:20	1
Sulfate (EPA 300.0-1993 R2.1)	6.7		1.0	0.35	mg/L			02/12/25 04:20	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-10 MW-14

Lab Sample ID: 240-218633-10

Date Collected: 02/04/25 07:55

Matrix: Water

Date Received: 02/07/25 08:00

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	0.230	U	0.230	0.231	1.00	0.358	pCi/L	02/11/25 07:07	03/07/25 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		30 - 110					02/11/25 07:07	03/07/25 09:44	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	0.111	U G	0.553	0.553	1.00	1.02	pCi/L	02/11/25 07:11	03/06/25 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		30 - 110					02/11/25 07:11	03/06/25 14:20	1
Y Carrier	77.4		30 - 110					02/11/25 07:11	03/06/25 14:20	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	0.341	U	0.599	0.599	5.00	1.02	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-11 MW-15

Lab Sample ID: 240-218633-11

Date Collected: 02/04/25 13:35

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.30		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:38	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:34	1
Arsenic	0.00097	J	0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:34	1
Barium	0.059		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:34	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:34	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:34	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:34	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:34	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:34	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:34	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:34	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:34	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:34	1
Selenium	0.019		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:34	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:34	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:34	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:34	1
Calcium	150		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:34	1
Magnesium	38		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:34	1
Lithium	ND		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:34	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.031	J	0.10	0.013	mg/L		02/12/25 14:31	02/13/25 15:54	1
Zinc	ND		0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:54	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	520		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	330		5.0	2.6	mg/L			02/12/25 00:34	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 00:34	1
Total Dissolved Solids (SM 2540 C-2020)	650		10	7.8	mg/L			02/10/25 13:54	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	91		1.0	0.13	mg/L			02/12/25 06:06	1
Fluoride (EPA 300.0-1993 R2.1)	0.047	J	0.050	0.024	mg/L			02/12/25 06:06	1
Sulfate (EPA 300.0-1993 R2.1)	110		1.0	0.35	mg/L			02/12/25 06:06	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-11 MW-15

Lab Sample ID: 240-218633-11

Date Collected: 02/04/25 13:35

Matrix: Water

Date Received: 02/07/25 08:00

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	0.153	U	0.149	0.150	1.00	0.228	pCi/L	02/11/25 07:07	03/07/25 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		30 - 110					02/11/25 07:07	03/07/25 09:44	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	1.10		0.599	0.608	1.00	0.855	pCi/L	02/11/25 07:11	03/06/25 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		30 - 110					02/11/25 07:11	03/06/25 14:20	1
Y Carrier	76.6		30 - 110					02/11/25 07:11	03/06/25 14:20	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	1.26		0.617	0.626	5.00	0.855	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-12 MWT-6

Lab Sample ID: 240-218633-12

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.99		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:42	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:37	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:37	1
Barium	0.061		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:37	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:37	1
Cadmium	0.000081	J	0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:37	1
Cobalt	0.00054	J	0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:37	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:37	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:37	1
Molybdenum	0.029		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:37	1
Nickel	0.0032		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:37	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:37	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:37	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:37	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:37	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:37	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:37	1
Calcium	190		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:37	1
Magnesium	47		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:37	1
Lithium	0.066		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:37	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 15:57	1
Zinc	0.0011	J B	0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 15:57	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	680		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	440		5.0	2.6	mg/L			02/12/25 00:39	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 00:39	1
Total Dissolved Solids (SM 2540 C-2020)	860		10	7.8	mg/L			02/10/25 13:54	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	49		1.0	0.13	mg/L			02/12/25 06:48	1
Fluoride (EPA 300.0-1993 R2.1)	0.24		0.050	0.024	mg/L			02/12/25 06:48	1
Sulfate (EPA 300.0-1993 R2.1)	240		5.0	1.7	mg/L			02/12/25 07:09	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-12 MWT-6

Lab Sample ID: 240-218633-12

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/07/25 08:00

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	0.174	U	0.177	0.178	1.00	0.277	pCi/L	02/11/25 07:07	03/07/25 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		30 - 110					02/11/25 07:07	03/07/25 09:44	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	2.32		0.698	0.730	1.00	0.779	pCi/L	02/11/25 07:11	03/06/25 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		30 - 110					02/11/25 07:11	03/06/25 14:20	1
Y Carrier	79.6		30 - 110					02/11/25 07:11	03/06/25 14:20	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	2.49		0.720	0.751	5.00	0.779	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-13 FB

Lab Sample ID: 240-218633-13

Date Collected: 02/04/25 06:55

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:46	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:40	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:40	1
Barium	ND		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:40	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:40	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:40	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:40	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:40	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:40	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:40	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:40	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:40	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:40	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:40	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:40	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:40	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:40	1
Calcium	ND		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:40	1
Magnesium	ND		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:40	1
Lithium	ND		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:40	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 16:05	1
Zinc	ND		0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 16:05	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 00:46	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 00:46	1
Total Dissolved Solids (SM 2540 C-2020)	ND		10	7.8	mg/L			02/10/25 13:54	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			02/11/25 09:45	1
Chloride (EPA 300.0-1993 R2.1)	ND		1.0	0.13	mg/L			02/12/25 05:03	1
Fluoride (EPA 300.0-1993 R2.1)	ND		0.050	0.024	mg/L			02/12/25 05:03	1
Sulfate (EPA 300.0-1993 R2.1)	ND		1.0	0.35	mg/L			02/12/25 05:03	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-13 FB

Lab Sample ID: 240-218633-13

Date Collected: 02/04/25 06:55

Matrix: Water

Date Received: 02/07/25 08:00

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	0.0703	U	0.144	0.144	1.00	0.262	pCi/L	02/11/25 07:07	03/07/25 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		30 - 110					02/11/25 07:07	03/07/25 09:44	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	0.405	U	0.534	0.535	1.00	0.891	pCi/L	02/11/25 07:11	03/06/25 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		30 - 110					02/11/25 07:11	03/06/25 14:20	1
Y Carrier	82.2		30 - 110					02/11/25 07:11	03/06/25 14:20	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	0.475	U	0.553	0.554	5.00	0.891	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-01 MW-7

Lab Sample ID: 240-218633-14

Date Collected: 02/05/25 14:56

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.0		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:51	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:43	1
Arsenic	0.0027	J	0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:43	1
Barium	0.048		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:43	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:43	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:43	1
Cobalt	0.00026	J	0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:43	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:43	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:43	1
Molybdenum	0.17		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:43	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:43	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:43	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:43	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:43	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:43	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:43	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:43	1
Calcium	110		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:43	1
Magnesium	14		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:43	1
Lithium	0.075		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:43	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.90		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 16:08	1
Zinc	ND		0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 16:08	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	320		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	190		5.0	2.6	mg/L			02/12/25 00:50	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 00:50	1
Total Dissolved Solids (SM 2540 C-2020)	610		10	7.8	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	0.60	J	4.0	0.40	mg/L			02/11/25 09:50	1
Chloride (EPA 300.0-1993 R2.1)	81		1.0	0.13	mg/L			02/12/25 07:31	1
Fluoride (EPA 300.0-1993 R2.1)	0.37		0.050	0.024	mg/L			02/12/25 07:31	1
Sulfate (EPA 300.0-1993 R2.1)	190		1.0	0.35	mg/L			02/12/25 07:31	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-01 MW-7

Lab Sample ID: 240-218633-14

Date Collected: 02/05/25 14:56

Matrix: Water

Date Received: 02/07/25 08:00

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	0.272		0.190	0.192	1.00	0.263	pCi/L	02/11/25 07:07	03/07/25 09:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		30 - 110					02/11/25 07:07	03/07/25 09:53	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	0.711	U	0.487	0.491	1.00	0.726	pCi/L	02/11/25 07:11	03/06/25 14:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		30 - 110					02/11/25 07:11	03/06/25 14:22	1
Y Carrier	81.1		30 - 110					02/11/25 07:11	03/06/25 14:22	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	0.983		0.523	0.527	5.00	0.726	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-02 MW-7B

Lab Sample ID: 240-218633-15

Date Collected: 02/05/25 16:09

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.8		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:55	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:46	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:46	1
Barium	0.0075		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:46	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:46	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:46	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:46	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:46	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:46	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:46	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:46	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:46	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:46	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:46	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:46	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:46	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:46	1
Calcium	7.6		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:46	1
Magnesium	2.4		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:46	1
Lithium	0.031		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:46	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.095	J	0.10	0.013	mg/L		02/12/25 14:31	02/13/25 16:10	1
Zinc	0.0011	J B	0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 16:10	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	310		5.0	2.6	mg/L			02/12/25 00:59	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	8.0		5.0	2.6	mg/L			02/12/25 00:59	1
Total Dissolved Solids (SM 2540 C-2020)	350		10	7.8	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	0.90	J	4.0	0.40	mg/L			02/12/25 09:36	1
Chloride (EPA 300.0-1993 R2.1)	0.82	J	1.0	0.13	mg/L			02/12/25 08:57	1
Fluoride (EPA 300.0-1993 R2.1)	0.74		0.050	0.024	mg/L			02/12/25 08:57	1
Sulfate (EPA 300.0-1993 R2.1)	2.4		1.0	0.35	mg/L			02/12/25 08:57	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-02 MW-7B

Lab Sample ID: 240-218633-15

Date Collected: 02/05/25 16:09

Matrix: Water

Date Received: 02/07/25 08:00

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	0.118	U	0.165	0.165	1.00	0.279	pCi/L	02/11/25 07:07	03/07/25 09:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.1		30 - 110					02/11/25 07:07	03/07/25 09:53	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	2.61		0.755	0.792	1.00	0.864	pCi/L	02/11/25 07:11	03/06/25 14:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.1		30 - 110					02/11/25 07:11	03/06/25 14:22	1
Y Carrier	78.5		30 - 110					02/11/25 07:11	03/06/25 14:22	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	2.73		0.773	0.809	5.00	0.864	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-03 MW-7C

Lab Sample ID: 240-218633-16

Date Collected: 02/05/25 17:24

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	6.2		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 00:59	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:49	1
Arsenic	0.0053		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:49	1
Barium	0.039		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:49	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:49	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:49	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:49	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:49	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:49	1
Molybdenum	0.35		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:49	1
Nickel	0.0059		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:49	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:49	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:49	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:49	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:49	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:49	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:49	1
Calcium	220		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:49	1
Magnesium	42		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:49	1
Lithium	0.11		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:49	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.9		0.10	0.013	mg/L		02/12/25 14:25	02/13/25 14:36	1
Zinc	0.0012	J B	0.0070	0.00093	mg/L		02/12/25 14:25	02/13/25 14:36	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	720		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	140		5.0	2.6	mg/L			02/12/25 01:05	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 01:05	1
Total Dissolved Solids (SM 2540 C-2020)	1200		20	16	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	9.9		4.0	0.40	mg/L			02/12/25 09:36	1
Chloride (EPA 300.0-1993 R2.1)	83		1.0	0.13	mg/L			02/12/25 09:19	1
Fluoride (EPA 300.0-1993 R2.1)	0.24		0.050	0.024	mg/L			02/12/25 09:19	1
Sulfate (EPA 300.0-1993 R2.1)	640		5.0	1.7	mg/L			02/12/25 09:40	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-03 MW-7C

Lab Sample ID: 240-218633-16

Date Collected: 02/05/25 17:24

Matrix: Water

Date Received: 02/07/25 08:00

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	0.425		0.226	0.230	1.00	0.292	pCi/L	02/11/25 07:07	03/07/25 09:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/11/25 07:07	03/07/25 09:53	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	1.79		0.628	0.650	1.00	0.805	pCi/L	02/11/25 07:11	03/06/25 14:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/11/25 07:11	03/06/25 14:22	1
Y Carrier	82.2		30 - 110					02/11/25 07:11	03/06/25 14:22	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	2.21		0.667	0.689	5.00	0.805	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-04 MW-8

Lab Sample ID: 240-218633-17

Date Collected: 02/05/25 13:36

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.094	J	0.10	0.057	mg/L		02/10/25 14:00	02/12/25 01:12	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:51	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:51	1
Barium	0.023		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:51	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:51	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:51	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:51	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:51	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:51	1
Molybdenum	0.0054		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:51	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:51	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:51	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:51	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:51	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:51	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:51	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:51	1
Calcium	87		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:51	1
Magnesium	24		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:51	1
Lithium	0.010		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:51	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/13/25 14:44	02/14/25 14:30	1
Zinc	ND		0.0070	0.00093	mg/L		02/13/25 14:44	02/14/25 14:30	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	310		33	33	mg/L			02/18/25 15:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	300		5.0	2.6	mg/L			02/12/25 01:15	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 01:15	1
Total Dissolved Solids (SM 2540 C-2020)	360		10	7.8	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	0.50	J	4.0	0.40	mg/L			02/12/25 09:36	1
Chloride (EPA 300.0-1993 R2.1)	38		1.0	0.13	mg/L			02/12/25 10:01	1
Fluoride (EPA 300.0-1993 R2.1)	0.054		0.050	0.024	mg/L			02/12/25 10:01	1
Sulfate (EPA 300.0-1993 R2.1)	25		1.0	0.35	mg/L			02/12/25 10:01	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-04 MW-8

Lab Sample ID: 240-218633-17

Date Collected: 02/05/25 13:36

Matrix: Water

Date Received: 02/07/25 08:00

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	0.158	U	0.199	0.199	1.00	0.329	pCi/L	02/11/25 07:07	03/07/25 09:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		30 - 110					02/11/25 07:07	03/07/25 09:53	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	1.34		0.673	0.684	1.00	0.943	pCi/L	02/11/25 07:11	03/06/25 14:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		30 - 110					02/11/25 07:11	03/06/25 14:22	1
Y Carrier	77.0		30 - 110					02/11/25 07:11	03/06/25 14:22	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	1.50		0.702	0.712	5.00	0.943	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-05 MW-9

Lab Sample ID: 240-218633-18

Date Collected: 02/05/25 12:14

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 01:16	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:54	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:54	1
Barium	0.017		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:54	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:54	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:54	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:54	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:54	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:54	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:54	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:54	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:54	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:54	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:54	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:54	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:54	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:54	1
Calcium	96		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:54	1
Magnesium	25		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:54	1
Lithium	ND		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:54	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/13/25 14:44	02/14/25 14:33	1
Zinc	0.0012	J	0.0070	0.00093	mg/L		02/13/25 14:44	02/14/25 14:33	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	340		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	330		5.0	2.6	mg/L			02/12/25 01:21	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 01:21	1
Total Dissolved Solids (SM 2540 C-2020)	340		10	7.8	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	0.40	J	4.0	0.40	mg/L			02/12/25 09:36	1
Chloride (EPA 300.0-1993 R2.1)	4.6		1.0	0.13	mg/L			02/12/25 10:22	1
Fluoride (EPA 300.0-1993 R2.1)	ND		0.050	0.024	mg/L			02/12/25 10:22	1
Sulfate (EPA 300.0-1993 R2.1)	16		1.0	0.35	mg/L			02/12/25 10:22	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-05 MW-9

Lab Sample ID: 240-218633-18

Date Collected: 02/05/25 12:14

Matrix: Water

Date Received: 02/07/25 08:00

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	0.222		0.159	0.161	1.00	0.216	pCi/L	02/11/25 07:07	03/07/25 09:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					02/11/25 07:07	03/07/25 09:53	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	1.21		0.651	0.660	1.00	0.922	pCi/L	02/11/25 07:11	03/06/25 14:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					02/11/25 07:11	03/06/25 14:22	1
Y Carrier	63.9		30 - 110					02/11/25 07:11	03/06/25 14:22	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	1.44		0.670	0.679	5.00	0.922	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-06 MW-10

Lab Sample ID: 240-218633-19

Date Collected: 02/05/25 10:53

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 01:20	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 13:57	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 13:57	1
Barium	0.030		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 13:57	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 13:57	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 13:57	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 13:57	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 13:57	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 13:57	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 13:57	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 13:57	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 13:57	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 13:57	1
Selenium	0.0015	J	0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 13:57	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 13:57	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 13:57	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 13:57	1
Calcium	120		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 13:57	1
Magnesium	24		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 13:57	1
Lithium	ND		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 13:57	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/13/25 14:44	02/14/25 14:35	1
Zinc	ND		0.0070	0.00093	mg/L		02/13/25 14:44	02/14/25 14:35	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	390		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	370		5.0	2.6	mg/L			02/12/25 01:26	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 01:26	1
Total Dissolved Solids (SM 2540 C-2020)	360		10	7.8	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			02/12/25 09:36	1
Chloride (EPA 300.0-1993 R2.1)	1.5		1.0	0.13	mg/L			02/12/25 10:43	1
Fluoride (EPA 300.0-1993 R2.1)	0.050		0.050	0.024	mg/L			02/12/25 10:43	1
Sulfate (EPA 300.0-1993 R2.1)	14		1.0	0.35	mg/L			02/12/25 10:43	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-06 MW-10

Lab Sample ID: 240-218633-19

Date Collected: 02/05/25 10:53

Matrix: Water

Date Received: 02/07/25 08:00

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	0.0761	U	0.133	0.133	1.00	0.236	pCi/L	02/11/25 07:07	03/07/25 09:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					02/11/25 07:07	03/07/25 09:53	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	2.43		0.711	0.745	1.00	0.809	pCi/L	02/11/25 07:11	03/06/25 14:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					02/11/25 07:11	03/06/25 14:22	1
Y Carrier	77.4		30 - 110					02/11/25 07:11	03/06/25 14:22	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	2.51		0.723	0.757	5.00	0.809	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-07 FB

Lab Sample ID: 240-218633-20

Date Collected: 02/05/25 10:00

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 01:25	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 14:05	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 14:05	1
Barium	ND		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 14:05	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 14:05	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 14:05	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 14:05	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 14:05	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 14:05	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 14:05	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 14:05	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 14:05	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 14:05	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 14:05	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 14:05	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 14:05	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 14:05	1
Calcium	ND		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 14:05	1
Magnesium	ND		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 14:05	1
Lithium	ND		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 14:05	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/13/25 14:44	02/14/25 14:38	1
Zinc	ND		0.0070	0.00093	mg/L		02/13/25 14:44	02/14/25 14:38	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 01:32	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 01:32	1
Total Dissolved Solids (SM 2540 C-2020)	ND		10	7.8	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			02/12/25 09:36	1
Chloride (EPA 300.0-1993 R2.1)	ND		1.0	0.13	mg/L			02/12/25 11:04	1
Fluoride (EPA 300.0-1993 R2.1)	ND		0.050	0.024	mg/L			02/12/25 11:04	1
Sulfate (EPA 300.0-1993 R2.1)	ND		1.0	0.35	mg/L			02/12/25 11:04	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-07 FB

Lab Sample ID: 240-218633-20

Date Collected: 02/05/25 10:00

Matrix: Water

Date Received: 02/07/25 08:00

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	0.102	U	0.196	0.196	1.00	0.345	pCi/L	02/11/25 07:07	03/07/25 09:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		30 - 110					02/11/25 07:07	03/07/25 09:53	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	0.936		0.518	0.525	1.00	0.735	pCi/L	02/11/25 07:11	03/06/25 14:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		30 - 110					02/11/25 07:11	03/06/25 14:22	1
Y Carrier	80.7		30 - 110					02/11/25 07:11	03/06/25 14:22	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	1.04		0.554	0.560	5.00	0.735	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-01 MW-100A

Lab Sample ID: 240-218633-21

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 06:59	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 17:59	1
Arsenic	0.012		0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 17:59	1
Barium	0.19		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 17:59	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 17:59	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 17:59	1
Cobalt	0.00033	J	0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 17:59	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 17:59	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 17:59	1
Molybdenum	0.0069		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 17:59	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 17:59	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 17:59	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 17:59	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 17:59	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 17:59	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 17:59	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 17:59	1
Calcium	89		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 17:59	1
Magnesium	39		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 17:59	1
Lithium	0.011		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 17:59	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.3		0.10	0.013	mg/L		02/13/25 14:44	02/14/25 14:41	1
Zinc	0.0028	J	0.0070	0.00093	mg/L		02/13/25 14:44	02/14/25 14:41	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	380		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	360		5.0	2.6	mg/L			02/12/25 01:36	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 01:36	1
Total Dissolved Solids (SM 2540 C-2020)	360		10	7.8	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	4.6		4.0	0.40	mg/L			02/12/25 09:36	1
Chloride (EPA 300.0-1993 R2.1)	10		1.0	0.13	mg/L			02/12/25 06:19	1
Fluoride (EPA 300.0-1993 R2.1)	0.57		0.050	0.024	mg/L			02/12/25 06:19	1
Sulfate (EPA 300.0-1993 R2.1)	25		1.0	0.35	mg/L			02/12/25 06:19	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-01 MW-100A

Lab Sample ID: 240-218633-21

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/07/25 08:00

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	0.253		0.125	0.127	1.00	0.163	pCi/L	02/11/25 07:12	03/05/25 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		30 - 110					02/11/25 07:12	03/05/25 10:15	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	0.358	U	0.303	0.304	1.00	0.468	pCi/L	02/11/25 07:15	02/27/25 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		30 - 110					02/11/25 07:15	02/27/25 12:16	1
Y Carrier	83.4		30 - 110					02/11/25 07:15	02/27/25 12:16	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	0.611		0.328	0.329	5.00	0.468	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-02 MW-100B

Lab Sample ID: 240-218633-22

Date Collected: 02/05/25 12:45

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.30		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 07:16	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 18:01	1
Arsenic	0.0073		0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 18:01	1
Barium	0.14		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 18:01	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 18:01	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 18:01	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 18:01	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 18:01	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 18:01	1
Molybdenum	0.0065		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 18:01	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 18:01	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 18:01	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 18:01	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 18:01	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 18:01	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 18:01	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 18:01	1
Calcium	89		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 18:01	1
Magnesium	32		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 18:01	1
Lithium	0.019		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 18:01	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.2		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:25	1
Zinc	0.0019	J	0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:25	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	350		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	270		5.0	2.6	mg/L			02/12/25 01:42	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 01:42	1
Total Dissolved Solids (SM 2540 C-2020)	440		10	7.8	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	5.6	J	8.0	0.80	mg/L			02/12/25 09:36	1
Chloride (EPA 300.0-1993 R2.1)	19		1.0	0.13	mg/L			02/12/25 07:25	1
Fluoride (EPA 300.0-1993 R2.1)	0.44		0.050	0.024	mg/L			02/12/25 07:25	1
Sulfate (EPA 300.0-1993 R2.1)	110		1.0	0.35	mg/L			02/12/25 07:25	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-02 MW-100B

Lab Sample ID: 240-218633-22

Date Collected: 02/05/25 12:45

Matrix: Water

Date Received: 02/07/25 08:00

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	0.331		0.127	0.130	1.00	0.139	pCi/L	02/11/25 07:12	03/05/25 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					02/11/25 07:12	03/05/25 10:15	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	0.111	U	0.349	0.349	1.00	0.620	pCi/L	02/11/25 07:15	02/27/25 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					02/11/25 07:15	02/27/25 12:16	1
Y Carrier	82.6		30 - 110					02/11/25 07:15	02/27/25 12:16	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	0.442	U	0.371	0.372	5.00	0.620	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-03 MW-100C

Lab Sample ID: 240-218633-23

Date Collected: 02/05/25 14:07

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 07:20	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 18:04	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 18:04	1
Barium	0.062		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 18:04	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 18:04	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 18:04	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 18:04	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 18:04	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 18:04	1
Molybdenum	0.0011	J	0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 18:04	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 18:04	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 18:04	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 18:04	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 18:04	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 18:04	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 18:04	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 18:04	1
Calcium	59		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 18:04	1
Magnesium	20		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 18:04	1
Lithium	0.032		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 18:04	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.58		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:27	1
Zinc	0.0014	J	0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:27	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	230		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	290		5.0	2.6	mg/L			02/12/25 01:48	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 01:48	1
Total Dissolved Solids (SM 2540 C-2020)	280		10	7.8	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	1.2	J	4.0	0.40	mg/L			02/12/25 09:36	1
Chloride (EPA 300.0-1993 R2.1)	2.8		1.0	0.13	mg/L			02/12/25 07:46	1
Fluoride (EPA 300.0-1993 R2.1)	0.43		0.050	0.024	mg/L			02/12/25 07:46	1
Sulfate (EPA 300.0-1993 R2.1)	4.2		1.0	0.35	mg/L			02/12/25 07:46	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-03 MW-100C

Lab Sample ID: 240-218633-23

Date Collected: 02/05/25 14:07

Matrix: Water

Date Received: 02/07/25 08:00

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	0.268		0.113	0.116	1.00	0.123	pCi/L	02/11/25 07:12	03/05/25 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		30 - 110					02/11/25 07:12	03/05/25 10:15	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	0.582	U	0.412	0.415	1.00	0.621	pCi/L	02/11/25 07:15	02/27/25 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		30 - 110					02/11/25 07:15	02/27/25 12:16	1
Y Carrier	77.0		30 - 110					02/11/25 07:15	02/27/25 12:16	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	0.851		0.427	0.431	5.00	0.621	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-04 MW-100D

Lab Sample ID: 240-218633-24

Date Collected: 02/05/25 15:40

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.7		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 07:24	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 18:07	1
Arsenic	0.0016	J	0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 18:07	1
Barium	0.0098		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 18:07	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 18:07	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 18:07	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 18:07	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 18:07	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 18:07	1
Molybdenum	0.0056		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 18:07	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 18:07	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 18:07	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 18:07	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 18:07	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 18:07	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 18:07	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 18:07	1
Calcium	21		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 18:07	1
Magnesium	3.9		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 18:07	1
Lithium	0.018		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 18:07	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.30		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:35	1
Zinc	0.0020	J	0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:35	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	68		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	360		5.0	2.6	mg/L			02/12/25 01:57	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 01:57	1
Total Dissolved Solids (SM 2540 C-2020)	430		10	7.8	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	2.2	J	8.0	0.80	mg/L			02/12/25 09:36	1
Chloride (EPA 300.0-1993 R2.1)	6.2		1.0	0.13	mg/L			02/12/25 08:08	1
Fluoride (EPA 300.0-1993 R2.1)	0.85		0.050	0.024	mg/L			02/12/25 08:08	1
Sulfate (EPA 300.0-1993 R2.1)	33		1.0	0.35	mg/L			02/12/25 08:08	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-04 MW-100D

Lab Sample ID: 240-218633-24

Date Collected: 02/05/25 15:40

Matrix: Water

Date Received: 02/07/25 08:00

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	0.00583	U	0.0604	0.0604	1.00	0.122	pCi/L	02/11/25 07:12	03/05/25 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					02/11/25 07:12	03/05/25 10:15	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	0.403	U	0.372	0.374	1.00	0.593	pCi/L	02/11/25 07:15	02/27/25 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					02/11/25 07:15	02/27/25 12:16	1
Y Carrier	81.1		30 - 110					02/11/25 07:15	02/27/25 12:16	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	0.408	U	0.377	0.379	5.00	0.593	pCi/L		03/10/25 11:02	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-05 MWT-100C

Lab Sample ID: 240-218633-25

Date Collected: 02/05/25 14:07

Matrix: Water

Date Received: 02/07/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 07:29	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 18:10	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 18:10	1
Barium	0.064		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 18:10	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 18:10	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 18:10	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 18:10	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 18:10	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 18:10	1
Molybdenum	0.0011	J	0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 18:10	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 18:10	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 18:10	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 18:10	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 18:10	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 18:10	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 18:10	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 18:10	1
Calcium	60		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 18:10	1
Magnesium	20		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 18:10	1
Lithium	0.032		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 18:10	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.61		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:38	1
Zinc	ND		0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:38	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	230		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	290		5.0	2.6	mg/L			02/12/25 02:03	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 02:03	1
Total Dissolved Solids (SM 2540 C-2020)	270		10	7.8	mg/L			02/11/25 12:06	1
Total Suspended Solids (SM 2540D-2020)	1.1	J	4.0	0.40	mg/L			02/12/25 09:36	1
Chloride (EPA 300.0-1993 R2.1)	2.7		1.0	0.13	mg/L			02/12/25 08:30	1
Fluoride (EPA 300.0-1993 R2.1)	0.43		0.050	0.024	mg/L			02/12/25 08:30	1
Sulfate (EPA 300.0-1993 R2.1)	4.3		1.0	0.35	mg/L			02/12/25 08:30	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-05 MWT-100C

Lab Sample ID: 240-218633-25

Date Collected: 02/05/25 14:07

Matrix: Water

Date Received: 02/07/25 08:00

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	0.248		0.107	0.109	1.00	0.117	pCi/L	02/11/25 07:12	03/05/25 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		30 - 110					02/11/25 07:12	03/05/25 10:15	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	0.0901	U	0.270	0.270	1.00	0.483	pCi/L	02/11/25 07:15	02/27/25 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		30 - 110					02/11/25 07:15	02/27/25 12:17	1
Y Carrier	86.0		30 - 110					02/11/25 07:15	02/27/25 12:17	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	0.338	U	0.290	0.291	5.00	0.483	pCi/L		03/10/25 11:02	1

Tracer/Carrier Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

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)					
240-218633-1	L502153-01 MW-1	84.8					
240-218633-2	L502153-02 MW-2	85.8					
240-218633-3	L502153-03 MW-4	75.6					
240-218633-4	L502153-04 MW-5	77.4					
240-218633-5	L502153-05 MW-6	88.1					
240-218633-6	L502153-06 MW-11	88.3					
240-218633-7	L502153-07 MW-11B	87.6					
240-218633-7 DU	L502153-07 MW-11B	79.4					
240-218633-8	L502153-08 MW-12	86.3					
240-218633-9	L502153-09 MW-12B	88.3					
240-218633-10	L502153-10 MW-14	76.6					
240-218633-11	L502153-11 MW-15	84.3					
240-218633-12	L502153-12 MWT-6	78.4					
240-218633-13	L502153-13 FB	76.9					
240-218633-14	L502160-01 MW-7	84.6					
240-218633-15	L502160-02 MW-7B	80.1					
240-218633-16	L502160-03 MW-7C	92.5					
240-218633-17	L502160-04 MW-8	75.9					
240-218633-18	L502160-05 MW-9	90.0					
240-218633-19	L502160-06 MW-10	85.1					
240-218633-20	L502160-07 FB	86.8					
240-218633-21	L502161-01 MW-100A	90.3					
240-218633-22	L502161-02 MW-100B	88.0					
240-218633-23	L502161-03 MW-100C	84.7					
240-218633-24	L502161-04 MW-100D	92.3					
240-218633-25	L502161-05 MWT-100C	95.2					
LCS 160-702324/2-A	Lab Control Sample	80.8					
LCS 160-702327/2-A	Lab Control Sample	85.7					
MB 160-702324/1-A	Method Blank	93.3					
MB 160-702327/1-A	Method Blank	82.7					

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)				
240-218633-1	L502153-01 MW-1	84.8	77.8				
240-218633-2	L502153-02 MW-2	85.8	78.1				
240-218633-3	L502153-03 MW-4	75.6	78.5				
240-218633-4	L502153-04 MW-5	77.4	77.8				
240-218633-5	L502153-05 MW-6	88.1	81.5				
240-218633-6	L502153-06 MW-11	88.3	80.0				
240-218633-7	L502153-07 MW-11B	87.6	80.0				
240-218633-7 DU	L502153-07 MW-11B	79.4	81.1				
240-218633-8	L502153-08 MW-12	86.3	81.1				
240-218633-9	L502153-09 MW-12B	88.3	79.3				

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Tracer/Carrier Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

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)
240-218633-10	L502153-10 MW-14	76.6	77.4
240-218633-11	L502153-11 MW-15	84.3	76.6
240-218633-12	L502153-12 MWT-6	78.4	79.6
240-218633-13	L502153-13 FB	76.9	82.2
240-218633-14	L502160-01 MW-7	84.6	81.1
240-218633-15	L502160-02 MW-7B	80.1	78.5
240-218633-16	L502160-03 MW-7C	92.5	82.2
240-218633-17	L502160-04 MW-8	75.9	77.0
240-218633-18	L502160-05 MW-9	90.0	63.9
240-218633-19	L502160-06 MW-10	85.1	77.4
240-218633-20	L502160-07 FB	86.8	80.7
240-218633-21	L502161-01 MW-100A	90.3	83.4
240-218633-22	L502161-02 MW-100B	88.0	82.6
240-218633-23	L502161-03 MW-100C	84.7	77.0
240-218633-24	L502161-04 MW-100D	92.3	81.1
240-218633-25	L502161-05 MWT-100C	95.2	86.0
LCS 160-702326/2-A	Lab Control Sample	80.8	80.0
LCS 160-702328/2-A	Lab Control Sample	85.7	78.1
MB 160-702326/1-A	Method Blank	93.3	78.1
MB 160-702328/1-A	Method Blank	82.7	77.0

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 200.7 R4.4-1994 - Metals (ICP)

Lab Sample ID: MB 240-644187/1-A

Matrix: Water

Analysis Batch: 644428

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 23:10	1

Lab Sample ID: LCS 240-644187/2-A

Matrix: Water

Analysis Batch: 644428

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.00		mg/L		100	85 - 115

Lab Sample ID: 240-218633-1 MS

Matrix: Water

Analysis Batch: 644428

Client Sample ID: L502153-01 MW-1

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.19		1.00	1.23		mg/L		104	70 - 130

Lab Sample ID: 240-218633-1 MSD

Matrix: Water

Analysis Batch: 644428

Client Sample ID: L502153-01 MW-1

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.19		1.00	1.24		mg/L		105	70 - 130	1	20

Lab Sample ID: 240-218633-2 MS

Matrix: Water

Analysis Batch: 644428

Client Sample ID: L502153-02 MW-2

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	3.3		1.00	4.34		mg/L		103	70 - 130

Lab Sample ID: 240-218633-2 MSD

Matrix: Water

Analysis Batch: 644428

Client Sample ID: L502153-02 MW-2

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	3.3		1.00	4.47		mg/L		116	70 - 130	3	20

Lab Sample ID: MB 240-644195/1-A

Matrix: Water

Analysis Batch: 644428

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 644195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		02/10/25 14:00	02/12/25 05:34	1

Lab Sample ID: LCS 240-644195/2-A

Matrix: Water

Analysis Batch: 644428

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 644195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.02		mg/L		102	85 - 115

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 200.7 R4.4-1994 - Metals (ICP)

Lab Sample ID: MB 240-644579/1-A
Matrix: Water
Analysis Batch: 645131

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 644579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, dissolved	ND		100	57	ug/L		02/12/25 14:00	02/17/25 15:47	1

Lab Sample ID: LCS 240-644579/2-A
Matrix: Water
Analysis Batch: 645131

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 644579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, dissolved	1000	964		ug/L		96	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 350-4968/25-A
Matrix: Water
Analysis Batch: 5013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/12/25 14:25	02/13/25 13:17	1
Iron, Dissolved	ND		0.10	0.013	mg/L		02/12/25 14:25	02/13/25 13:17	1
Zinc	0.00121	J	0.0070	0.00093	mg/L		02/12/25 14:25	02/13/25 13:17	1
Zinc, Dissolved	0.00121	J	0.0070	0.00093	mg/L		02/12/25 14:25	02/13/25 13:17	1

Lab Sample ID: LCS 350-4968/26-A
Matrix: Water
Analysis Batch: 5013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	19.4		mg/L		97	85 - 115
Iron, Dissolved	20.0	19.4		mg/L		97	85 - 115
Zinc	1.00	1.04		mg/L		104	85 - 115
Zinc, Dissolved	1.00	1.04		mg/L		104	85 - 115

Lab Sample ID: MB 350-4970/25-A
Matrix: Water
Analysis Batch: 5013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4970

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/12/25 14:31	02/13/25 14:39	1
Zinc	0.00126	J	0.0070	0.00093	mg/L		02/12/25 14:31	02/13/25 14:39	1

Lab Sample ID: LCS 350-4970/26-A
Matrix: Water
Analysis Batch: 5013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	19.5		mg/L		98	85 - 115
Zinc	1.00	1.03		mg/L		103	85 - 115

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 350-5003/25-A

Matrix: Water

Analysis Batch: 5032

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/13/25 14:44	02/14/25 13:17	1
Zinc	ND		0.0070	0.00093	mg/L		02/13/25 14:44	02/14/25 13:17	1

Lab Sample ID: LCS 350-5003/26-A

Matrix: Water

Analysis Batch: 5032

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5003

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	19.8		mg/L		99	85 - 115
Zinc	1.00	0.961		mg/L		96	85 - 115

Lab Sample ID: MB 350-5006/25-A

Matrix: Water

Analysis Batch: 5032

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 14:46	1
Zinc	ND		0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 14:46	1

Lab Sample ID: LCS 350-5006/26-A

Matrix: Water

Analysis Batch: 5032

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	19.9		mg/L		99	85 - 115
Zinc	1.00	0.975		mg/L		97	85 - 115

Method: 200.8-1994 R5.4 - Metals (ICP/MS)

Lab Sample ID: MB 240-644187/1-A

Matrix: Water

Analysis Batch: 644581

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/12/25 12:38	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/12/25 12:38	1
Barium	ND		0.0050	0.00077	mg/L		02/10/25 14:00	02/12/25 12:38	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/12/25 12:38	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/12/25 12:38	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/12/25 12:38	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/12/25 12:38	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/12/25 12:38	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/12/25 12:38	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/12/25 12:38	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/12/25 12:38	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/12/25 12:38	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/12/25 12:38	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/12/25 12:38	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/12/25 12:38	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/12/25 12:38	1

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-644187/1-A
Matrix: Water
Analysis Batch: 644581

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 644187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.0	0.25	mg/L		02/10/25 14:00	02/12/25 12:38	1
Magnesium	ND		1.0	0.061	mg/L		02/10/25 14:00	02/12/25 12:38	1
Lithium	ND		0.0080	0.0034	mg/L		02/10/25 14:00	02/12/25 12:38	1

Lab Sample ID: LCS 240-644187/3-A
Matrix: Water
Analysis Batch: 644581

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 644187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.100	0.0915		mg/L		92	85 - 115
Arsenic	1.00	0.932		mg/L		93	85 - 115
Barium	1.00	0.940		mg/L		94	85 - 115
Beryllium	0.500	0.469		mg/L		94	85 - 115
Cadmium	0.500	0.469		mg/L		94	85 - 115
Cobalt	0.500	0.460		mg/L		92	85 - 115
Chromium	0.500	0.481		mg/L		96	85 - 115
Copper	0.500	0.468		mg/L		94	85 - 115
Molybdenum	0.500	0.472		mg/L		94	85 - 115
Nickel	0.500	0.470		mg/L		94	85 - 115
Lead	0.500	0.507		mg/L		101	85 - 115
Antimony	0.100	0.0966		mg/L		97	85 - 115
Selenium	1.00	0.933		mg/L		93	85 - 115
Thallium	1.00	1.04		mg/L		104	85 - 115
Vanadium	0.500	0.485		mg/L		97	85 - 115
Zinc	0.500	0.487		mg/L		97	85 - 115
Calcium	25.0	23.6		mg/L		94	85 - 115
Magnesium	25.0	24.3		mg/L		97	85 - 115
Lithium	0.500	0.487		mg/L		97	85 - 115

Lab Sample ID: 240-218633-1 MS
Matrix: Water
Analysis Batch: 644581

Client Sample ID: L502153-01 MW-1
Prep Type: Total Recoverable
Prep Batch: 644187

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.100	0.0918		mg/L		92	70 - 130
Arsenic	0.0046	J	1.00	0.949		mg/L		94	70 - 130
Barium	0.087		1.00	1.03		mg/L		94	70 - 130
Beryllium	ND		0.500	0.462		mg/L		92	70 - 130
Cadmium	ND		0.500	0.465		mg/L		93	70 - 130
Cobalt	0.0018		0.500	0.459		mg/L		91	70 - 130
Chromium	0.0018	J	0.500	0.479		mg/L		95	70 - 130
Copper	ND		0.500	0.465		mg/L		93	70 - 130
Molybdenum	0.0023	J	0.500	0.479		mg/L		95	70 - 130
Nickel	ND		0.500	0.467		mg/L		93	70 - 130
Lead	ND		0.500	0.502		mg/L		100	70 - 130
Antimony	ND		0.100	0.0964		mg/L		96	70 - 130
Selenium	ND		1.00	0.920		mg/L		92	70 - 130
Thallium	ND		1.00	1.04		mg/L		104	70 - 130
Vanadium	0.0027	J	0.500	0.483		mg/L		96	70 - 130

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-218633-1 MS

Matrix: Water

Analysis Batch: 644581

Client Sample ID: L502153-01 MW-1

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	ND		0.500	0.483		mg/L		97	70 - 130
Calcium	160		25.0	178	4	mg/L		81	70 - 130
Magnesium	50		25.0	71.8		mg/L		89	70 - 130
Lithium	0.011		0.500	0.490		mg/L		96	70 - 130

Lab Sample ID: 240-218633-1 MSD

Matrix: Water

Analysis Batch: 644581

Client Sample ID: L502153-01 MW-1

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		0.100	0.0945		mg/L		95	70 - 130	3	20
Arsenic	0.0046	J	1.00	0.972		mg/L		97	70 - 130	2	20
Barium	0.087		1.00	1.06		mg/L		97	70 - 130	3	20
Beryllium	ND		0.500	0.479		mg/L		96	70 - 130	4	20
Cadmium	ND		0.500	0.477		mg/L		95	70 - 130	2	20
Cobalt	0.0018		0.500	0.475		mg/L		95	70 - 130	4	20
Chromium	0.0018	J	0.500	0.492		mg/L		98	70 - 130	3	20
Copper	ND		0.500	0.479		mg/L		96	70 - 130	3	20
Molybdenum	0.0023	J	0.500	0.492		mg/L		98	70 - 130	3	20
Nickel	ND		0.500	0.478		mg/L		96	70 - 130	2	20
Lead	ND		0.500	0.522		mg/L		104	70 - 130	4	20
Antimony	ND		0.100	0.0999		mg/L		100	70 - 130	4	20
Selenium	ND		1.00	0.935		mg/L		93	70 - 130	2	20
Thallium	ND		1.00	1.07		mg/L		107	70 - 130	3	20
Vanadium	0.0027	J	0.500	0.497		mg/L		99	70 - 130	3	20
Zinc	ND		0.500	0.500		mg/L		100	70 - 130	4	20
Calcium	160		25.0	183	4	mg/L		101	70 - 130	3	20
Magnesium	50		25.0	73.6		mg/L		96	70 - 130	2	20
Lithium	0.011		0.500	0.522		mg/L		102	70 - 130	6	20

Lab Sample ID: 240-218633-2 MS

Matrix: Water

Analysis Batch: 644581

Client Sample ID: L502153-02 MW-2

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.100	0.0954		mg/L		95	70 - 130
Arsenic	ND		1.00	0.984		mg/L		98	70 - 130
Barium	0.040		1.00	1.02		mg/L		98	70 - 130
Beryllium	ND		0.500	0.470		mg/L		94	70 - 130
Cadmium	0.000099	J	0.500	0.483		mg/L		97	70 - 130
Cobalt	0.0036		0.500	0.486		mg/L		97	70 - 130
Chromium	ND		0.500	0.499		mg/L		100	70 - 130
Copper	ND		0.500	0.484		mg/L		97	70 - 130
Molybdenum	0.010		0.500	0.511		mg/L		100	70 - 130
Nickel	0.012		0.500	0.495		mg/L		97	70 - 130
Lead	ND		0.500	0.535		mg/L		107	70 - 130
Antimony	ND		0.100	0.102		mg/L		102	70 - 130
Selenium	ND		1.00	0.968		mg/L		97	70 - 130
Thallium	ND		1.00	1.09		mg/L		109	70 - 130

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-218633-2 MS

Matrix: Water

Analysis Batch: 644581

Client Sample ID: L502153-02 MW-2

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	ND		0.500	0.506		mg/L		101	70 - 130
Zinc	ND		0.500	0.503		mg/L		101	70 - 130
Calcium	190		25.0	216	4	mg/L		89	70 - 130
Magnesium	50		25.0	74.5		mg/L		96	70 - 130
Lithium	0.038		0.500	0.546		mg/L		102	70 - 130

Lab Sample ID: 240-218633-2 MSD

Matrix: Water

Analysis Batch: 644581

Client Sample ID: L502153-02 MW-2

Prep Type: Total Recoverable

Prep Batch: 644187

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Silver	ND		0.100	0.0955		mg/L		96	70 - 130	0	20
Arsenic	ND		1.00	0.990		mg/L		99	70 - 130	1	20
Barium	0.040		1.00	1.03		mg/L		99	70 - 130	0	20
Beryllium	ND		0.500	0.464		mg/L		93	70 - 130	1	20
Cadmium	0.000099	J	0.500	0.485		mg/L		97	70 - 130	0	20
Cobalt	0.0036		0.500	0.483		mg/L		96	70 - 130	1	20
Chromium	ND		0.500	0.501		mg/L		100	70 - 130	0	20
Copper	ND		0.500	0.484		mg/L		97	70 - 130	0	20
Molybdenum	0.010		0.500	0.511		mg/L		100	70 - 130	0	20
Nickel	0.012		0.500	0.496		mg/L		97	70 - 130	0	20
Lead	ND		0.500	0.535		mg/L		107	70 - 130	0	20
Antimony	ND		0.100	0.102		mg/L		102	70 - 130	0	20
Selenium	ND		1.00	0.966		mg/L		97	70 - 130	0	20
Thallium	ND		1.00	1.09		mg/L		109	70 - 130	0	20
Vanadium	ND		0.500	0.506		mg/L		101	70 - 130	0	20
Zinc	ND		0.500	0.500		mg/L		100	70 - 130	1	20
Calcium	190		25.0	212	4	mg/L		74	70 - 130	2	20
Magnesium	50		25.0	73.7		mg/L		93	70 - 130	1	20
Lithium	0.038		0.500	0.540		mg/L		100	70 - 130	1	20

Lab Sample ID: MB 240-644195/1-A

Matrix: Water

Analysis Batch: 644422

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 644195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 12:22	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 12:22	1
Barium	ND		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 12:22	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 12:22	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 12:22	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 12:22	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 12:22	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 12:22	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 12:22	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 12:22	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 12:22	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 12:22	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 12:22	1

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-644195/1-A

Matrix: Water

Analysis Batch: 644422

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 644195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 12:22	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 12:22	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 12:22	1
Calcium	ND		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 12:22	1
Magnesium	ND		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 12:22	1
Lithium	ND		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 12:22	1

Lab Sample ID: LCS 240-644195/3-A

Matrix: Water

Analysis Batch: 644422

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 644195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.100	0.0935		mg/L		94	85 - 115
Arsenic	1.00	0.966		mg/L		97	85 - 115
Barium	1.00	0.939		mg/L		94	85 - 115
Beryllium	0.500	0.447		mg/L		89	85 - 115
Cadmium	0.500	0.461		mg/L		92	85 - 115
Cobalt	0.500	0.488		mg/L		98	85 - 115
Chromium	0.500	0.484		mg/L		97	85 - 115
Copper	0.500	0.484		mg/L		97	85 - 115
Molybdenum	0.500	0.484		mg/L		97	85 - 115
Nickel	0.500	0.487		mg/L		97	85 - 115
Lead	0.500	0.506		mg/L		101	85 - 115
Antimony	0.100	0.0971		mg/L		97	85 - 115
Selenium	1.00	0.964		mg/L		96	85 - 115
Thallium	1.00	1.03		mg/L		103	85 - 115
Vanadium	0.500	0.486		mg/L		97	85 - 115
Zinc	0.500	0.499		mg/L		100	85 - 115
Calcium	25.0	23.8		mg/L		95	85 - 115
Magnesium	25.0	24.2		mg/L		97	85 - 115
Lithium	0.500	0.500		mg/L		100	85 - 115

Lab Sample ID: MB 240-644579/1-A

Matrix: Water

Analysis Batch: 644732

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 644579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver, Dissolved	ND		1.0	0.053	ug/L		02/12/25 14:00	02/13/25 15:44	1
Arsenic, Dissolved	ND		5.0	0.75	ug/L		02/12/25 14:00	02/13/25 15:44	1
Barium, Dissolved	ND		5.0	0.77	ug/L		02/12/25 14:00	02/13/25 15:44	1
Beryllium, Dissolved	ND		1.0	0.27	ug/L		02/12/25 14:00	02/13/25 15:44	1
Cadmium, Dissolved	ND		1.0	0.077	ug/L		02/12/25 14:00	02/13/25 15:44	1
Cobalt, Dissolved	ND		1.0	0.086	ug/L		02/12/25 14:00	02/13/25 15:44	1
Chromium, Dissolved	ND		5.0	1.2	ug/L		02/12/25 14:00	02/13/25 15:44	1
Copper, Dissolved	ND		2.0	1.7	ug/L		02/12/25 14:00	02/13/25 15:44	1
Molybdenum, dissolved	ND		5.0	1.1	ug/L		02/12/25 14:00	02/13/25 15:44	1
Nickel, Dissolved	ND		2.0	1.5	ug/L		02/12/25 14:00	02/13/25 15:44	1
Lead, dissolved	ND		1.0	0.45	ug/L		02/12/25 14:00	02/13/25 15:44	1
Antimony, Dissolved	ND		2.0	0.57	ug/L		02/12/25 14:00	02/13/25 15:44	1

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-644579/1-A

Matrix: Water

Analysis Batch: 644732

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 644579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium, Dissolved	ND		5.0	0.89	ug/L		02/12/25 14:00	02/13/25 15:44	1
Thallium, Dissolved	ND		1.0	0.51	ug/L		02/12/25 14:00	02/13/25 15:44	1
Vanadium, Dissolved	ND		5.0	0.82	ug/L		02/12/25 14:00	02/13/25 15:44	1
Calcium, Dissolved	ND		1000	250	ug/L		02/12/25 14:00	02/13/25 15:44	1
Magnesium, Dissolved	ND		1000	61	ug/L		02/12/25 14:00	02/13/25 15:44	1
Lithium, dissolved	ND		8.0	3.4	ug/L		02/12/25 14:00	02/13/25 15:44	1

Lab Sample ID: LCS 240-644579/3-A

Matrix: Water

Analysis Batch: 644732

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 644579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver, Dissolved	100	91.5		ug/L		91	85 - 115
Arsenic, Dissolved	1000	945		ug/L		95	85 - 115
Barium, Dissolved	1000	952		ug/L		95	85 - 115
Beryllium, Dissolved	500	449		ug/L		90	85 - 115
Cadmium, Dissolved	500	461		ug/L		92	85 - 115
Cobalt, Dissolved	500	455		ug/L		91	85 - 115
Chromium, Dissolved	500	481		ug/L		96	85 - 115
Copper, Dissolved	500	465		ug/L		93	85 - 115
Molybdenum, dissolved	500	463		ug/L		93	85 - 115
Nickel, Dissolved	500	461		ug/L		92	85 - 115
Lead, dissolved	500	502		ug/L		100	85 - 115
Antimony, Dissolved	100	98.2		ug/L		98	85 - 115
Selenium, Dissolved	1000	910		ug/L		91	85 - 115
Thallium, Dissolved	1000	1040		ug/L		104	85 - 115
Vanadium, Dissolved	500	482		ug/L		96	85 - 115
Calcium, Dissolved	25000	23600		ug/L		94	85 - 115
Magnesium, Dissolved	25000	24000		ug/L		96	85 - 115
Lithium, dissolved	500	466		ug/L		93	85 - 115

Method: 245.1-1994 R3.0 - Mercury (CVAA)

Lab Sample ID: MB 240-644189/1-A

Matrix: Water

Analysis Batch: 644600

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 644189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/12/25 09:13	1

Lab Sample ID: LCS 240-644189/2-A

Matrix: Water

Analysis Batch: 644600

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 644189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00471		mg/L		94	85 - 115

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 245.1-1994 R3.0 - Mercury (CVAA) (Continued)

Lab Sample ID: 240-218633-19 MS

Matrix: Water

Analysis Batch: 644600

Client Sample ID: L502160-06 MW-10

Prep Type: Total/NA

Prep Batch: 644189

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.000961		mg/L		96	70 - 130

Lab Sample ID: 240-218633-19 MSD

Matrix: Water

Analysis Batch: 644600

Client Sample ID: L502160-06 MW-10

Prep Type: Total/NA

Prep Batch: 644189

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00101		mg/L		101	70 - 130	5	20

Lab Sample ID: 240-218633-20 MS

Matrix: Water

Analysis Batch: 644600

Client Sample ID: L502160-07 FB

Prep Type: Total/NA

Prep Batch: 644189

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.00105		mg/L		105	70 - 130

Lab Sample ID: 240-218633-20 MSD

Matrix: Water

Analysis Batch: 644600

Client Sample ID: L502160-07 FB

Prep Type: Total/NA

Prep Batch: 644189

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00105		mg/L		105	70 - 130	0	20

Lab Sample ID: MB 240-644197/1-A

Matrix: Water

Analysis Batch: 644433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 644197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/11/25 13:32	1

Lab Sample ID: LCS 240-644197/2-A

Matrix: Water

Analysis Batch: 644433

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 644197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00459		mg/L		92	85 - 115

Lab Sample ID: MB 240-644584/1-A

Matrix: Water

Analysis Batch: 644747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 644584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	ND		0.20	0.13	ug/L		02/12/25 14:00	02/13/25 09:56	1

Lab Sample ID: LCS 240-644584/2-A

Matrix: Water

Analysis Batch: 644747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 644584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	5.00	4.79		ug/L		96	85 - 115

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 2320 B-2021 - Alkalinity

Lab Sample ID: MB 240-644524/30

Matrix: Water

Analysis Batch: 644524

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			02/11/25 21:21	1
Carbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			02/11/25 21:21	1

Lab Sample ID: MB 240-644524/4

Matrix: Water

Analysis Batch: 644524

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			02/11/25 19:02	1
Carbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			02/11/25 19:02	1

Lab Sample ID: MB 240-644524/56

Matrix: Water

Analysis Batch: 644524

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			02/11/25 23:48	1
Carbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			02/11/25 23:48	1

Lab Sample ID: 240-218633-6 DU

Matrix: Water

Analysis Batch: 644524

Client Sample ID: L502153-06 MW-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO ₃	460		461		mg/L		0.2	20
Carbonate Alkalinity as CaCO ₃	ND		ND		mg/L		NC	20

Lab Sample ID: 240-218633-16 DU

Matrix: Water

Analysis Batch: 644524

Client Sample ID: L502160-03 MW-7C

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO ₃	140		137		mg/L		0.3	20
Carbonate Alkalinity as CaCO ₃	ND		ND		mg/L		NC	20

Method: 2540 C-2020 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-644180/1

Matrix: Water

Analysis Batch: 644180

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	7.8	mg/L			02/10/25 10:53	1

Lab Sample ID: LCS 240-644180/2

Matrix: Water

Analysis Batch: 644180

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	242	227		mg/L		94	80 - 120

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 2540 C-2020 - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 240-644245/1

Matrix: Water

Analysis Batch: 644245

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	7.8	mg/L			02/10/25 13:54	1

Lab Sample ID: LCS 240-644245/2

Matrix: Water

Analysis Batch: 644245

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	242	232		mg/L		96	80 - 120

Lab Sample ID: 240-218633-3 DU

Matrix: Water

Analysis Batch: 644245

Client Sample ID: L502153-03 MW-4

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	510		505		mg/L		0.2	20

Lab Sample ID: MB 240-644397/1

Matrix: Water

Analysis Batch: 644397

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	7.8	mg/L			02/11/25 12:06	1

Lab Sample ID: LCS 240-644397/2

Matrix: Water

Analysis Batch: 644397

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	242	227		mg/L		94	80 - 120

Lab Sample ID: 240-218633-18 DU

Matrix: Water

Analysis Batch: 644397

Client Sample ID: L502160-05 MW-9

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	340		324		mg/L		5	20

Lab Sample ID: 240-218633-24 DU

Matrix: Water

Analysis Batch: 644397

Client Sample ID: L502161-04 MW-100D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	430		428		mg/L		0	20

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 2540D-2020 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-644338/1
Matrix: Water
Analysis Batch: 644338

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	0.40	mg/L			02/11/25 09:45	1

Lab Sample ID: LCS 240-644338/2
Matrix: Water
Analysis Batch: 644338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	26.1	20.0	J	mg/L		77	64 - 120

Lab Sample ID: 240-218633-6 DU
Matrix: Water
Analysis Batch: 644338

Client Sample ID: L502153-06 MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	44		47.0		mg/L		6	10

Lab Sample ID: 240-218633-10 DU
Matrix: Water
Analysis Batch: 644338

Client Sample ID: L502153-10 MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	37		37.2		mg/L		2	10

Lab Sample ID: MB 240-644343/1
Matrix: Water
Analysis Batch: 644343

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	0.40	mg/L			02/11/25 09:50	1

Lab Sample ID: LCS 240-644343/2
Matrix: Water
Analysis Batch: 644343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	26.1	21.0	J	mg/L		80	64 - 120

Lab Sample ID: MB 240-644521/1
Matrix: Water
Analysis Batch: 644521

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	0.40	mg/L			02/12/25 09:36	1

Lab Sample ID: LCS 240-644521/2
Matrix: Water
Analysis Batch: 644521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	26.1	25.0	J	mg/L		96	64 - 120

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 2540D-2020 - Solids, Total Suspended (TSS)

Lab Sample ID: 240-218633-22 DU

Matrix: Water

Analysis Batch: 644521

Client Sample ID: L502161-02 MW-100B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	5.6	J	7.40	J F5	mg/L		28	10

Lab Sample ID: 240-218633-24 DU

Matrix: Water

Analysis Batch: 644521

Client Sample ID: L502161-04 MW-100D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	2.2	J	3.00	J F5	mg/L		31	10

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 240-644447/3

Matrix: Water

Analysis Batch: 644447

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.13	mg/L			02/11/25 19:53	1
Fluoride	ND		0.050	0.024	mg/L			02/11/25 19:53	1
Sulfate	ND		1.0	0.35	mg/L			02/11/25 19:53	1

Lab Sample ID: LCS 240-644447/4

Matrix: Water

Analysis Batch: 644447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.8		mg/L		98	90 - 110
Fluoride	2.50	2.49		mg/L		100	90 - 110
Sulfate	50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: 240-218633-7 MS

Matrix: Water

Analysis Batch: 644447

Client Sample ID: L502153-07 MW-11B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.84	J	50.0	53.0		mg/L		104	80 - 120
Fluoride	0.38		2.50	2.93		mg/L		102	80 - 120
Sulfate	5.5		50.0	57.7		mg/L		104	80 - 120

Lab Sample ID: 240-218633-7 MSD

Matrix: Water

Analysis Batch: 644447

Client Sample ID: L502153-07 MW-11B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	0.84	J	50.0	53.5		mg/L		105	80 - 120	1	15
Fluoride	0.38		2.50	2.96		mg/L		103	80 - 120	1	15
Sulfate	5.5		50.0	58.2		mg/L		105	80 - 120	1	15

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-218633-13 MS

Matrix: Water

Analysis Batch: 644447

Client Sample ID: L502153-13 FB

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		50.0	50.6		mg/L		101	80 - 120
Fluoride	ND		2.50	2.54		mg/L		102	80 - 120
Sulfate	ND		50.0	51.5		mg/L		103	80 - 120

Lab Sample ID: 240-218633-13 MSD

Matrix: Water

Analysis Batch: 644447

Client Sample ID: L502153-13 FB

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.0	51.8		mg/L		104	80 - 120	2	15
Fluoride	ND		2.50	2.59		mg/L		104	80 - 120	2	15
Sulfate	ND		50.0	52.7		mg/L		105	80 - 120	2	15

Lab Sample ID: MB 240-644448/3

Matrix: Water

Analysis Batch: 644448

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.13	mg/L			02/12/25 05:36	1
Fluoride	ND		0.050	0.024	mg/L			02/12/25 05:36	1
Sulfate	ND		1.0	0.35	mg/L			02/12/25 05:36	1

Lab Sample ID: LCS 240-644448/4

Matrix: Water

Analysis Batch: 644448

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.5		mg/L		97	90 - 110
Fluoride	2.50	2.60		mg/L		104	90 - 110
Sulfate	50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: 240-218633-21 MS

Matrix: Water

Analysis Batch: 644448

Client Sample ID: L502161-01 MW-100A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10		50.0	56.3		mg/L		93	80 - 120
Fluoride	0.57		2.50	2.98		mg/L		97	80 - 120
Sulfate	25		50.0	71.6		mg/L		94	80 - 120

Lab Sample ID: 240-218633-21 MSD

Matrix: Water

Analysis Batch: 644448

Client Sample ID: L502161-01 MW-100A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10		50.0	56.2		mg/L		92	80 - 120	0	15
Fluoride	0.57		2.50	2.98		mg/L		96	80 - 120	0	15
Sulfate	25		50.0	71.5		mg/L		93	80 - 120	0	15

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-702324/1-A

Matrix: Water

Analysis Batch: 706560

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 702324

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01756	U	0.111	0.111	1.00	0.244	pCi/L	02/11/25 07:07	03/07/25 07:54	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					02/11/25 07:07	03/07/25 07:54	1

Lab Sample ID: LCS 160-702324/2-A

Matrix: Water

Analysis Batch: 706560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 702324

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	9.475		1.22	1.00	0.297	pCi/L	99	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	80.8		30 - 110							

Lab Sample ID: 240-218633-7 DU

Matrix: Water

Analysis Batch: 706559

Client Sample ID: L502153-07 MW-11B

Prep Type: Total/NA

Prep Batch: 702324

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.415		0.2710		0.188	1.00	0.253	pCi/L	0.35	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	79.4		30 - 110							

Lab Sample ID: MB 160-702327/1-A

Matrix: Water

Analysis Batch: 706177

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 702327

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.009114	U	0.0607	0.0607	1.00	0.132	pCi/L	02/11/25 07:12	03/05/25 07:37	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.7		30 - 110					02/11/25 07:12	03/05/25 07:37	1

Lab Sample ID: LCS 160-702327/2-A

Matrix: Water

Analysis Batch: 706177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 702327

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	9.284		1.02	1.00	0.163	pCi/L	97	75 - 125

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-702327/2-A
Matrix: Water
Analysis Batch: 706177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702327

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	85.7		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-702326/1-A
Matrix: Water
Analysis Batch: 706429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702326

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2026	U	0.332	0.333	1.00	0.567	pCi/L	02/11/25 07:11	03/06/25 12:26	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					02/11/25 07:11	03/06/25 12:26	1
Y Carrier	78.1		30 - 110					02/11/25 07:11	03/06/25 12:26	1

Lab Sample ID: LCS 160-702326/2-A
Matrix: Water
Analysis Batch: 706429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702326

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.04	9.019		1.33	1.00	0.683	pCi/L	112	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	80.8		30 - 110						
Y Carrier	80.0		30 - 110						

Lab Sample ID: 240-218633-7 DU
Matrix: Water
Analysis Batch: 706383

Client Sample ID: L502153-07 MW-11B
Prep Type: Total/NA
Prep Batch: 702326

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.0980	U	0.8338		0.426	1.00	0.564	pCi/L	0.90	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	79.4		30 - 110							
Y Carrier	81.1		30 - 110							

Lab Sample ID: MB 160-702328/1-A
Matrix: Water
Analysis Batch: 705036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702328

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.09046	U	0.345	0.346	1.00	0.671	pCi/L	02/11/25 07:15	02/27/25 12:16	1

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-702328/1-A
Matrix: Water
Analysis Batch: 705036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702328

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	82.7		30 - 110
Y Carrier	77.0		30 - 110

Prepared	Analyzed	Dil Fac
02/11/25 07:15	02/27/25 12:16	1
02/11/25 07:15	02/27/25 12:16	1

Lab Sample ID: LCS 160-702328/2-A
Matrix: Water
Analysis Batch: 705036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702328

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.06	8.288		1.24	1.00	0.602	pCi/L	103	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	85.7		30 - 110
Y Carrier	78.1		30 - 110

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Metals

Prep Batch: 4968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Dissolved	Water	200.8	
240-218633-4	L502153-04 MW-5	Dissolved	Water	200.8	
240-218633-8	L502153-08 MW-12	Dissolved	Water	200.8	
240-218633-16	L502160-03 MW-7C	Total/NA	Water	200.8	
MB 350-4968/25-A	Method Blank	Total/NA	Water	200.8	
LCS 350-4968/26-A	Lab Control Sample	Total/NA	Water	200.8	

Prep Batch: 4970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total/NA	Water	200.8	
240-218633-2	L502153-02 MW-2	Total/NA	Water	200.8	
240-218633-3	L502153-03 MW-4	Total/NA	Water	200.8	
240-218633-4	L502153-04 MW-5	Total/NA	Water	200.8	
240-218633-5	L502153-05 MW-6	Total/NA	Water	200.8	
240-218633-6	L502153-06 MW-11	Total/NA	Water	200.8	
240-218633-7	L502153-07 MW-11B	Total/NA	Water	200.8	
240-218633-8	L502153-08 MW-12	Total/NA	Water	200.8	
240-218633-9	L502153-09 MW-12B	Total/NA	Water	200.8	
240-218633-10	L502153-10 MW-14	Total/NA	Water	200.8	
240-218633-11	L502153-11 MW-15	Total/NA	Water	200.8	
240-218633-12	L502153-12 MWT-6	Total/NA	Water	200.8	
240-218633-13	L502153-13 FB	Total/NA	Water	200.8	
240-218633-14	L502160-01 MW-7	Total/NA	Water	200.8	
240-218633-15	L502160-02 MW-7B	Total/NA	Water	200.8	
MB 350-4970/25-A	Method Blank	Total/NA	Water	200.8	
LCS 350-4970/26-A	Lab Control Sample	Total/NA	Water	200.8	

Prep Batch: 5003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-17	L502160-04 MW-8	Total/NA	Water	200.8	
240-218633-18	L502160-05 MW-9	Total/NA	Water	200.8	
240-218633-19	L502160-06 MW-10	Total/NA	Water	200.8	
240-218633-20	L502160-07 FB	Total/NA	Water	200.8	
240-218633-21	L502161-01 MW-100A	Total/NA	Water	200.8	
MB 350-5003/25-A	Method Blank	Total/NA	Water	200.8	
LCS 350-5003/26-A	Lab Control Sample	Total/NA	Water	200.8	

Prep Batch: 5006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-22	L502161-02 MW-100B	Total/NA	Water	200.8	
240-218633-23	L502161-03 MW-100C	Total/NA	Water	200.8	
240-218633-24	L502161-04 MW-100D	Total/NA	Water	200.8	
240-218633-25	L502161-05 MWT-100C	Total/NA	Water	200.8	
MB 350-5006/25-A	Method Blank	Total/NA	Water	200.8	
LCS 350-5006/26-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 5013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Dissolved	Water	200.8	4968
240-218633-1	L502153-01 MW-1	Total/NA	Water	200.8	4970
240-218633-2	L502153-02 MW-2	Total/NA	Water	200.8	4970

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Metals (Continued)

Analysis Batch: 5013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-3	L502153-03 MW-4	Total/NA	Water	200.8	4970
240-218633-4	L502153-04 MW-5	Dissolved	Water	200.8	4968
240-218633-4	L502153-04 MW-5	Total/NA	Water	200.8	4970
240-218633-5	L502153-05 MW-6	Total/NA	Water	200.8	4970
240-218633-6	L502153-06 MW-11	Total/NA	Water	200.8	4970
240-218633-6	L502153-06 MW-11	Total/NA	Water	200.8	4970
240-218633-7	L502153-07 MW-11B	Total/NA	Water	200.8	4970
240-218633-8	L502153-08 MW-12	Dissolved	Water	200.8	4968
240-218633-8	L502153-08 MW-12	Total/NA	Water	200.8	4970
240-218633-9	L502153-09 MW-12B	Total/NA	Water	200.8	4970
240-218633-10	L502153-10 MW-14	Total/NA	Water	200.8	4970
240-218633-10	L502153-10 MW-14	Total/NA	Water	200.8	4970
240-218633-11	L502153-11 MW-15	Total/NA	Water	200.8	4970
240-218633-12	L502153-12 MWT-6	Total/NA	Water	200.8	4970
240-218633-13	L502153-13 FB	Total/NA	Water	200.8	4970
240-218633-14	L502160-01 MW-7	Total/NA	Water	200.8	4970
240-218633-15	L502160-02 MW-7B	Total/NA	Water	200.8	4970
240-218633-16	L502160-03 MW-7C	Total/NA	Water	200.8	4968
MB 350-4968/25-A	Method Blank	Total/NA	Water	200.8	4968
MB 350-4970/25-A	Method Blank	Total/NA	Water	200.8	4970
LCS 350-4968/26-A	Lab Control Sample	Total/NA	Water	200.8	4968
LCS 350-4970/26-A	Lab Control Sample	Total/NA	Water	200.8	4970

Analysis Batch: 5032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-17	L502160-04 MW-8	Total/NA	Water	200.8	5003
240-218633-18	L502160-05 MW-9	Total/NA	Water	200.8	5003
240-218633-19	L502160-06 MW-10	Total/NA	Water	200.8	5003
240-218633-20	L502160-07 FB	Total/NA	Water	200.8	5003
240-218633-21	L502161-01 MW-100A	Total/NA	Water	200.8	5003
240-218633-22	L502161-02 MW-100B	Total/NA	Water	200.8	5006
240-218633-23	L502161-03 MW-100C	Total/NA	Water	200.8	5006
240-218633-24	L502161-04 MW-100D	Total/NA	Water	200.8	5006
240-218633-25	L502161-05 MWT-100C	Total/NA	Water	200.8	5006
MB 350-5003/25-A	Method Blank	Total/NA	Water	200.8	5003
MB 350-5006/25-A	Method Blank	Total/NA	Water	200.8	5006
LCS 350-5003/26-A	Lab Control Sample	Total/NA	Water	200.8	5003
LCS 350-5006/26-A	Lab Control Sample	Total/NA	Water	200.8	5006

Prep Batch: 644187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total Recoverable	Water	200.7	
240-218633-2	L502153-02 MW-2	Total Recoverable	Water	200.7	
240-218633-3	L502153-03 MW-4	Total Recoverable	Water	200.7	
240-218633-4	L502153-04 MW-5	Total Recoverable	Water	200.7	
240-218633-5	L502153-05 MW-6	Total Recoverable	Water	200.7	
240-218633-6	L502153-06 MW-11	Total Recoverable	Water	200.7	
240-218633-7	L502153-07 MW-11B	Total Recoverable	Water	200.7	
240-218633-8	L502153-08 MW-12	Total Recoverable	Water	200.7	
240-218633-9	L502153-09 MW-12B	Total Recoverable	Water	200.7	
240-218633-10	L502153-10 MW-14	Total Recoverable	Water	200.7	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Metals (Continued)

Prep Batch: 644187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-11	L502153-11 MW-15	Total Recoverable	Water	200.7	
240-218633-12	L502153-12 MWT-6	Total Recoverable	Water	200.7	
240-218633-13	L502153-13 FB	Total Recoverable	Water	200.7	
240-218633-14	L502160-01 MW-7	Total Recoverable	Water	200.7	
240-218633-15	L502160-02 MW-7B	Total Recoverable	Water	200.7	
240-218633-16	L502160-03 MW-7C	Total Recoverable	Water	200.7	
240-218633-17	L502160-04 MW-8	Total Recoverable	Water	200.7	
240-218633-18	L502160-05 MW-9	Total Recoverable	Water	200.7	
240-218633-19	L502160-06 MW-10	Total Recoverable	Water	200.7	
240-218633-20	L502160-07 FB	Total Recoverable	Water	200.7	
MB 240-644187/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 240-644187/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 240-644187/3-A	Lab Control Sample	Total Recoverable	Water	200.7	
240-218633-1 MS	L502153-01 MW-1	Total Recoverable	Water	200.7	
240-218633-1 MS	L502153-01 MW-1	Total Recoverable	Water	200.8-1994 R5.4	
240-218633-1 MSD	L502153-01 MW-1	Total Recoverable	Water	200.7	
240-218633-1 MSD	L502153-01 MW-1	Total Recoverable	Water	200.8-1994 R5.4	
240-218633-2 MS	L502153-02 MW-2	Total Recoverable	Water	200.7	
240-218633-2 MS	L502153-02 MW-2	Total Recoverable	Water	200.8-1994 R5.4	
240-218633-2 MSD	L502153-02 MW-2	Total Recoverable	Water	200.7	
240-218633-2 MSD	L502153-02 MW-2	Total Recoverable	Water	200.8-1994 R5.4	

Prep Batch: 644189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total/NA	Water	245.1-1994 R3.0	
240-218633-2	L502153-02 MW-2	Total/NA	Water	245.1-1994 R3.0	
240-218633-3	L502153-03 MW-4	Total/NA	Water	245.1-1994 R3.0	
240-218633-4	L502153-04 MW-5	Total/NA	Water	245.1-1994 R3.0	
240-218633-5	L502153-05 MW-6	Total/NA	Water	245.1-1994 R3.0	
240-218633-6	L502153-06 MW-11	Total/NA	Water	245.1-1994 R3.0	
240-218633-7	L502153-07 MW-11B	Total/NA	Water	245.1-1994 R3.0	
240-218633-8	L502153-08 MW-12	Total/NA	Water	245.1-1994 R3.0	
240-218633-9	L502153-09 MW-12B	Total/NA	Water	245.1-1994 R3.0	
240-218633-10	L502153-10 MW-14	Total/NA	Water	245.1-1994 R3.0	
240-218633-11	L502153-11 MW-15	Total/NA	Water	245.1-1994 R3.0	
240-218633-12	L502153-12 MWT-6	Total/NA	Water	245.1-1994 R3.0	
240-218633-13	L502153-13 FB	Total/NA	Water	245.1-1994 R3.0	
240-218633-14	L502160-01 MW-7	Total/NA	Water	245.1-1994 R3.0	
240-218633-15	L502160-02 MW-7B	Total/NA	Water	245.1-1994 R3.0	
240-218633-16	L502160-03 MW-7C	Total/NA	Water	245.1-1994 R3.0	
240-218633-17	L502160-04 MW-8	Total/NA	Water	245.1-1994 R3.0	
240-218633-18	L502160-05 MW-9	Total/NA	Water	245.1-1994 R3.0	
240-218633-19	L502160-06 MW-10	Total/NA	Water	245.1-1994 R3.0	
240-218633-20	L502160-07 FB	Total/NA	Water	245.1-1994 R3.0	
MB 240-644189/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	
LCS 240-644189/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	
240-218633-19 MS	L502160-06 MW-10	Total/NA	Water	245.1-1994 R3.0	
240-218633-19 MSD	L502160-06 MW-10	Total/NA	Water	245.1-1994 R3.0	
240-218633-20 MS	L502160-07 FB	Total/NA	Water	245.1-1994 R3.0	
240-218633-20 MSD	L502160-07 FB	Total/NA	Water	245.1-1994 R3.0	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Metals

Prep Batch: 644195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-21	L502161-01 MW-100A	Total Recoverable	Water	200.7	
240-218633-22	L502161-02 MW-100B	Total Recoverable	Water	200.7	
240-218633-23	L502161-03 MW-100C	Total Recoverable	Water	200.7	
240-218633-24	L502161-04 MW-100D	Total Recoverable	Water	200.7	
240-218633-25	L502161-05 MWT-100C	Total Recoverable	Water	200.7	
MB 240-644195/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 240-644195/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 240-644195/3-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 644197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-21	L502161-01 MW-100A	Total/NA	Water	245.1-1994 R3.0	
240-218633-22	L502161-02 MW-100B	Total/NA	Water	245.1-1994 R3.0	
240-218633-23	L502161-03 MW-100C	Total/NA	Water	245.1-1994 R3.0	
240-218633-24	L502161-04 MW-100D	Total/NA	Water	245.1-1994 R3.0	
240-218633-25	L502161-05 MWT-100C	Total/NA	Water	245.1-1994 R3.0	
MB 240-644197/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	
LCS 240-644197/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	

Analysis Batch: 644422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-21	L502161-01 MW-100A	Total Recoverable	Water	200.8-1994 R5.4	644195
240-218633-22	L502161-02 MW-100B	Total Recoverable	Water	200.8-1994 R5.4	644195
240-218633-23	L502161-03 MW-100C	Total Recoverable	Water	200.8-1994 R5.4	644195
240-218633-24	L502161-04 MW-100D	Total Recoverable	Water	200.8-1994 R5.4	644195
240-218633-25	L502161-05 MWT-100C	Total Recoverable	Water	200.8-1994 R5.4	644195
MB 240-644195/1-A	Method Blank	Total Recoverable	Water	200.8-1994 R5.4	644195
LCS 240-644195/3-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	644195

Analysis Batch: 644428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-2	L502153-02 MW-2	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-3	L502153-03 MW-4	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-4	L502153-04 MW-5	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-5	L502153-05 MW-6	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-6	L502153-06 MW-11	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-7	L502153-07 MW-11B	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-8	L502153-08 MW-12	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-9	L502153-09 MW-12B	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-10	L502153-10 MW-14	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-11	L502153-11 MW-15	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-12	L502153-12 MWT-6	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-13	L502153-13 FB	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-14	L502160-01 MW-7	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-15	L502160-02 MW-7B	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-16	L502160-03 MW-7C	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-17	L502160-04 MW-8	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-18	L502160-05 MW-9	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-19	L502160-06 MW-10	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-20	L502160-07 FB	Total Recoverable	Water	200.7 R4.4-1994	644187

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Metals (Continued)

Analysis Batch: 644428 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-21	L502161-01 MW-100A	Total Recoverable	Water	200.7 R4.4-1994	644195
240-218633-22	L502161-02 MW-100B	Total Recoverable	Water	200.7 R4.4-1994	644195
240-218633-23	L502161-03 MW-100C	Total Recoverable	Water	200.7 R4.4-1994	644195
240-218633-24	L502161-04 MW-100D	Total Recoverable	Water	200.7 R4.4-1994	644195
240-218633-25	L502161-05 MWT-100C	Total Recoverable	Water	200.7 R4.4-1994	644195
MB 240-644187/1-A	Method Blank	Total Recoverable	Water	200.7 R4.4-1994	644187
MB 240-644195/1-A	Method Blank	Total Recoverable	Water	200.7 R4.4-1994	644195
LCS 240-644187/2-A	Lab Control Sample	Total Recoverable	Water	200.7 R4.4-1994	644187
LCS 240-644195/2-A	Lab Control Sample	Total Recoverable	Water	200.7 R4.4-1994	644195
240-218633-1 MS	L502153-01 MW-1	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-1 MSD	L502153-01 MW-1	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-2 MS	L502153-02 MW-2	Total Recoverable	Water	200.7 R4.4-1994	644187
240-218633-2 MSD	L502153-02 MW-2	Total Recoverable	Water	200.7 R4.4-1994	644187

Analysis Batch: 644433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-644197/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	644197
LCS 240-644197/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	644197

Prep Batch: 644579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Dissolved	Water	200.8-1994 R5.4	
240-218633-4	L502153-04 MW-5	Dissolved	Water	200.8-1994 R5.4	
240-218633-8	L502153-08 MW-12	Dissolved	Water	200.8-1994 R5.4	
MB 240-644579/1-A	Method Blank	Total Recoverable	Water	200.8-1994 R5.4	
LCS 240-644579/2-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	
LCS 240-644579/3-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	

Analysis Batch: 644581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-2	L502153-02 MW-2	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-3	L502153-03 MW-4	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-4	L502153-04 MW-5	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-5	L502153-05 MW-6	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-6	L502153-06 MW-11	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-7	L502153-07 MW-11B	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-8	L502153-08 MW-12	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-9	L502153-09 MW-12B	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-10	L502153-10 MW-14	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-11	L502153-11 MW-15	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-12	L502153-12 MWT-6	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-13	L502153-13 FB	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-14	L502160-01 MW-7	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-15	L502160-02 MW-7B	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-16	L502160-03 MW-7C	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-17	L502160-04 MW-8	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-18	L502160-05 MW-9	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-19	L502160-06 MW-10	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-20	L502160-07 FB	Total Recoverable	Water	200.8-1994 R5.4	644187
MB 240-644187/1-A	Method Blank	Total Recoverable	Water	200.8-1994 R5.4	644187

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Metals (Continued)

Analysis Batch: 644581 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-644187/3-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-1 MS	L502153-01 MW-1	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-1 MSD	L502153-01 MW-1	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-2 MS	L502153-02 MW-2	Total Recoverable	Water	200.8-1994 R5.4	644187
240-218633-2 MSD	L502153-02 MW-2	Total Recoverable	Water	200.8-1994 R5.4	644187

Prep Batch: 644584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Dissolved	Water	245.1-1994 R3.0	
240-218633-4	L502153-04 MW-5	Dissolved	Water	245.1-1994 R3.0	
240-218633-8	L502153-08 MW-12	Dissolved	Water	245.1-1994 R3.0	
MB 240-644584/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	
LCS 240-644584/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	

Analysis Batch: 644600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-2	L502153-02 MW-2	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-3	L502153-03 MW-4	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-4	L502153-04 MW-5	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-5	L502153-05 MW-6	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-6	L502153-06 MW-11	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-7	L502153-07 MW-11B	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-8	L502153-08 MW-12	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-9	L502153-09 MW-12B	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-10	L502153-10 MW-14	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-11	L502153-11 MW-15	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-12	L502153-12 MWT-6	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-13	L502153-13 FB	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-14	L502160-01 MW-7	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-15	L502160-02 MW-7B	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-16	L502160-03 MW-7C	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-17	L502160-04 MW-8	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-18	L502160-05 MW-9	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-19	L502160-06 MW-10	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-20	L502160-07 FB	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-21	L502161-01 MW-100A	Total/NA	Water	245.1-1994 R3.0	644197
240-218633-22	L502161-02 MW-100B	Total/NA	Water	245.1-1994 R3.0	644197
240-218633-23	L502161-03 MW-100C	Total/NA	Water	245.1-1994 R3.0	644197
240-218633-24	L502161-04 MW-100D	Total/NA	Water	245.1-1994 R3.0	644197
240-218633-25	L502161-05 MWT-100C	Total/NA	Water	245.1-1994 R3.0	644197
MB 240-644189/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	644189
LCS 240-644189/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-19 MS	L502160-06 MW-10	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-19 MSD	L502160-06 MW-10	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-20 MS	L502160-07 FB	Total/NA	Water	245.1-1994 R3.0	644189
240-218633-20 MSD	L502160-07 FB	Total/NA	Water	245.1-1994 R3.0	644189

Analysis Batch: 644732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Dissolved	Water	200.8-1994 R5.4	644579

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Metals (Continued)

Analysis Batch: 644732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-4	L502153-04 MW-5	Dissolved	Water	200.8-1994 R5.4	644579
240-218633-8	L502153-08 MW-12	Dissolved	Water	200.8-1994 R5.4	644579
MB 240-644579/1-A	Method Blank	Total Recoverable	Water	200.8-1994 R5.4	644579
LCS 240-644579/3-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	644579

Analysis Batch: 644747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Dissolved	Water	245.1-1994 R3.0	644584
240-218633-4	L502153-04 MW-5	Dissolved	Water	245.1-1994 R3.0	644584
240-218633-8	L502153-08 MW-12	Dissolved	Water	245.1-1994 R3.0	644584
MB 240-644584/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	644584
LCS 240-644584/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	644584

Analysis Batch: 645131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Dissolved	Water	200.7 R4.4-1994	644579
240-218633-4	L502153-04 MW-5	Dissolved	Water	200.7 R4.4-1994	644579
240-218633-8	L502153-08 MW-12	Dissolved	Water	200.7 R4.4-1994	644579
MB 240-644579/1-A	Method Blank	Total Recoverable	Water	200.7 R4.4-1994	644579
LCS 240-644579/2-A	Lab Control Sample	Total Recoverable	Water	200.7 R4.4-1994	644579

Analysis Batch: 645307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total Recoverable	Water	2340 B-2021	
240-218633-2	L502153-02 MW-2	Total Recoverable	Water	2340 B-2021	
240-218633-3	L502153-03 MW-4	Total Recoverable	Water	2340 B-2021	
240-218633-4	L502153-04 MW-5	Total Recoverable	Water	2340 B-2021	
240-218633-5	L502153-05 MW-6	Total Recoverable	Water	2340 B-2021	
240-218633-6	L502153-06 MW-11	Total Recoverable	Water	2340 B-2021	
240-218633-7	L502153-07 MW-11B	Total Recoverable	Water	2340 B-2021	
240-218633-8	L502153-08 MW-12	Total Recoverable	Water	2340 B-2021	
240-218633-9	L502153-09 MW-12B	Total Recoverable	Water	2340 B-2021	
240-218633-10	L502153-10 MW-14	Total Recoverable	Water	2340 B-2021	
240-218633-11	L502153-11 MW-15	Total Recoverable	Water	2340 B-2021	
240-218633-12	L502153-12 MWT-6	Total Recoverable	Water	2340 B-2021	
240-218633-13	L502153-13 FB	Total Recoverable	Water	2340 B-2021	
240-218633-14	L502160-01 MW-7	Total Recoverable	Water	2340 B-2021	
240-218633-15	L502160-02 MW-7B	Total Recoverable	Water	2340 B-2021	
240-218633-16	L502160-03 MW-7C	Total Recoverable	Water	2340 B-2021	
240-218633-17	L502160-04 MW-8	Total Recoverable	Water	2340 B-2021	
240-218633-18	L502160-05 MW-9	Total Recoverable	Water	2340 B-2021	
240-218633-19	L502160-06 MW-10	Total Recoverable	Water	2340 B-2021	
240-218633-20	L502160-07 FB	Total Recoverable	Water	2340 B-2021	
240-218633-21	L502161-01 MW-100A	Total Recoverable	Water	2340 B-2021	
240-218633-22	L502161-02 MW-100B	Total Recoverable	Water	2340 B-2021	
240-218633-23	L502161-03 MW-100C	Total Recoverable	Water	2340 B-2021	
240-218633-24	L502161-04 MW-100D	Total Recoverable	Water	2340 B-2021	
240-218633-25	L502161-05 MWT-100C	Total Recoverable	Water	2340 B-2021	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

General Chemistry

Analysis Batch: 644180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total/NA	Water	2540 C-2020	
240-218633-2	L502153-02 MW-2	Total/NA	Water	2540 C-2020	
MB 240-644180/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-644180/2	Lab Control Sample	Total/NA	Water	2540 C-2020	

Analysis Batch: 644245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-3	L502153-03 MW-4	Total/NA	Water	2540 C-2020	
240-218633-4	L502153-04 MW-5	Total/NA	Water	2540 C-2020	
240-218633-5	L502153-05 MW-6	Total/NA	Water	2540 C-2020	
240-218633-6	L502153-06 MW-11	Total/NA	Water	2540 C-2020	
240-218633-7	L502153-07 MW-11B	Total/NA	Water	2540 C-2020	
240-218633-8	L502153-08 MW-12	Total/NA	Water	2540 C-2020	
240-218633-9	L502153-09 MW-12B	Total/NA	Water	2540 C-2020	
240-218633-10	L502153-10 MW-14	Total/NA	Water	2540 C-2020	
240-218633-11	L502153-11 MW-15	Total/NA	Water	2540 C-2020	
240-218633-12	L502153-12 MWT-6	Total/NA	Water	2540 C-2020	
240-218633-13	L502153-13 FB	Total/NA	Water	2540 C-2020	
MB 240-644245/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-644245/2	Lab Control Sample	Total/NA	Water	2540 C-2020	
240-218633-3 DU	L502153-03 MW-4	Total/NA	Water	2540 C-2020	

Analysis Batch: 644338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total/NA	Water	2540D-2020	
240-218633-2	L502153-02 MW-2	Total/NA	Water	2540D-2020	
240-218633-3	L502153-03 MW-4	Total/NA	Water	2540D-2020	
240-218633-4	L502153-04 MW-5	Total/NA	Water	2540D-2020	
240-218633-5	L502153-05 MW-6	Total/NA	Water	2540D-2020	
240-218633-6	L502153-06 MW-11	Total/NA	Water	2540D-2020	
240-218633-7	L502153-07 MW-11B	Total/NA	Water	2540D-2020	
240-218633-8	L502153-08 MW-12	Total/NA	Water	2540D-2020	
240-218633-9	L502153-09 MW-12B	Total/NA	Water	2540D-2020	
240-218633-10	L502153-10 MW-14	Total/NA	Water	2540D-2020	
240-218633-11	L502153-11 MW-15	Total/NA	Water	2540D-2020	
240-218633-12	L502153-12 MWT-6	Total/NA	Water	2540D-2020	
240-218633-13	L502153-13 FB	Total/NA	Water	2540D-2020	
MB 240-644338/1	Method Blank	Total/NA	Water	2540D-2020	
LCS 240-644338/2	Lab Control Sample	Total/NA	Water	2540D-2020	
240-218633-6 DU	L502153-06 MW-11	Total/NA	Water	2540D-2020	
240-218633-10 DU	L502153-10 MW-14	Total/NA	Water	2540D-2020	

Analysis Batch: 644343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-14	L502160-01 MW-7	Total/NA	Water	2540D-2020	
MB 240-644343/1	Method Blank	Total/NA	Water	2540D-2020	
LCS 240-644343/2	Lab Control Sample	Total/NA	Water	2540D-2020	

Analysis Batch: 644397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-14	L502160-01 MW-7	Total/NA	Water	2540 C-2020	

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

General Chemistry (Continued)

Analysis Batch: 644397 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-15	L502160-02 MW-7B	Total/NA	Water	2540 C-2020	
240-218633-16	L502160-03 MW-7C	Total/NA	Water	2540 C-2020	
240-218633-17	L502160-04 MW-8	Total/NA	Water	2540 C-2020	
240-218633-18	L502160-05 MW-9	Total/NA	Water	2540 C-2020	
240-218633-19	L502160-06 MW-10	Total/NA	Water	2540 C-2020	
240-218633-20	L502160-07 FB	Total/NA	Water	2540 C-2020	
240-218633-21	L502161-01 MW-100A	Total/NA	Water	2540 C-2020	
240-218633-22	L502161-02 MW-100B	Total/NA	Water	2540 C-2020	
240-218633-23	L502161-03 MW-100C	Total/NA	Water	2540 C-2020	
240-218633-24	L502161-04 MW-100D	Total/NA	Water	2540 C-2020	
240-218633-25	L502161-05 MWT-100C	Total/NA	Water	2540 C-2020	
MB 240-644397/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-644397/2	Lab Control Sample	Total/NA	Water	2540 C-2020	
240-218633-18 DU	L502160-05 MW-9	Total/NA	Water	2540 C-2020	
240-218633-24 DU	L502161-04 MW-100D	Total/NA	Water	2540 C-2020	

Analysis Batch: 644447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total/NA	Water	300.0-1993 R2.1	
240-218633-2	L502153-02 MW-2	Total/NA	Water	300.0-1993 R2.1	
240-218633-2	L502153-02 MW-2	Total/NA	Water	300.0-1993 R2.1	
240-218633-3	L502153-03 MW-4	Total/NA	Water	300.0-1993 R2.1	
240-218633-4	L502153-04 MW-5	Total/NA	Water	300.0-1993 R2.1	
240-218633-4	L502153-04 MW-5	Total/NA	Water	300.0-1993 R2.1	
240-218633-5	L502153-05 MW-6	Total/NA	Water	300.0-1993 R2.1	
240-218633-5	L502153-05 MW-6	Total/NA	Water	300.0-1993 R2.1	
240-218633-6	L502153-06 MW-11	Total/NA	Water	300.0-1993 R2.1	
240-218633-7	L502153-07 MW-11B	Total/NA	Water	300.0-1993 R2.1	
240-218633-8	L502153-08 MW-12	Total/NA	Water	300.0-1993 R2.1	
240-218633-9	L502153-09 MW-12B	Total/NA	Water	300.0-1993 R2.1	
240-218633-10	L502153-10 MW-14	Total/NA	Water	300.0-1993 R2.1	
240-218633-11	L502153-11 MW-15	Total/NA	Water	300.0-1993 R2.1	
240-218633-12	L502153-12 MWT-6	Total/NA	Water	300.0-1993 R2.1	
240-218633-12	L502153-12 MWT-6	Total/NA	Water	300.0-1993 R2.1	
240-218633-13	L502153-13 FB	Total/NA	Water	300.0-1993 R2.1	
240-218633-14	L502160-01 MW-7	Total/NA	Water	300.0-1993 R2.1	
240-218633-15	L502160-02 MW-7B	Total/NA	Water	300.0-1993 R2.1	
240-218633-16	L502160-03 MW-7C	Total/NA	Water	300.0-1993 R2.1	
240-218633-16	L502160-03 MW-7C	Total/NA	Water	300.0-1993 R2.1	
240-218633-17	L502160-04 MW-8	Total/NA	Water	300.0-1993 R2.1	
240-218633-18	L502160-05 MW-9	Total/NA	Water	300.0-1993 R2.1	
240-218633-19	L502160-06 MW-10	Total/NA	Water	300.0-1993 R2.1	
240-218633-20	L502160-07 FB	Total/NA	Water	300.0-1993 R2.1	
MB 240-644447/3	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 240-644447/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
240-218633-7 MS	L502153-07 MW-11B	Total/NA	Water	300.0-1993 R2.1	
240-218633-7 MSD	L502153-07 MW-11B	Total/NA	Water	300.0-1993 R2.1	
240-218633-13 MS	L502153-13 FB	Total/NA	Water	300.0-1993 R2.1	
240-218633-13 MSD	L502153-13 FB	Total/NA	Water	300.0-1993 R2.1	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

General Chemistry

Analysis Batch: 644448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-21	L502161-01 MW-100A	Total/NA	Water	300.0-1993 R2.1	
240-218633-22	L502161-02 MW-100B	Total/NA	Water	300.0-1993 R2.1	
240-218633-23	L502161-03 MW-100C	Total/NA	Water	300.0-1993 R2.1	
240-218633-24	L502161-04 MW-100D	Total/NA	Water	300.0-1993 R2.1	
240-218633-25	L502161-05 MWT-100C	Total/NA	Water	300.0-1993 R2.1	
MB 240-644448/3	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 240-644448/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
240-218633-21 MS	L502161-01 MW-100A	Total/NA	Water	300.0-1993 R2.1	
240-218633-21 MSD	L502161-01 MW-100A	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 644521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-15	L502160-02 MW-7B	Total/NA	Water	2540D-2020	
240-218633-16	L502160-03 MW-7C	Total/NA	Water	2540D-2020	
240-218633-17	L502160-04 MW-8	Total/NA	Water	2540D-2020	
240-218633-18	L502160-05 MW-9	Total/NA	Water	2540D-2020	
240-218633-19	L502160-06 MW-10	Total/NA	Water	2540D-2020	
240-218633-20	L502160-07 FB	Total/NA	Water	2540D-2020	
240-218633-21	L502161-01 MW-100A	Total/NA	Water	2540D-2020	
240-218633-22	L502161-02 MW-100B	Total/NA	Water	2540D-2020	
240-218633-23	L502161-03 MW-100C	Total/NA	Water	2540D-2020	
240-218633-24	L502161-04 MW-100D	Total/NA	Water	2540D-2020	
240-218633-25	L502161-05 MWT-100C	Total/NA	Water	2540D-2020	
MB 240-644521/1	Method Blank	Total/NA	Water	2540D-2020	
LCS 240-644521/2	Lab Control Sample	Total/NA	Water	2540D-2020	
240-218633-22 DU	L502161-02 MW-100B	Total/NA	Water	2540D-2020	
240-218633-24 DU	L502161-04 MW-100D	Total/NA	Water	2540D-2020	

Analysis Batch: 644524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total/NA	Water	2320 B-2021	
240-218633-2	L502153-02 MW-2	Total/NA	Water	2320 B-2021	
240-218633-3	L502153-03 MW-4	Total/NA	Water	2320 B-2021	
240-218633-4	L502153-04 MW-5	Total/NA	Water	2320 B-2021	
240-218633-5	L502153-05 MW-6	Total/NA	Water	2320 B-2021	
240-218633-6	L502153-06 MW-11	Total/NA	Water	2320 B-2021	
240-218633-7	L502153-07 MW-11B	Total/NA	Water	2320 B-2021	
240-218633-8	L502153-08 MW-12	Total/NA	Water	2320 B-2021	
240-218633-9	L502153-09 MW-12B	Total/NA	Water	2320 B-2021	
240-218633-10	L502153-10 MW-14	Total/NA	Water	2320 B-2021	
240-218633-11	L502153-11 MW-15	Total/NA	Water	2320 B-2021	
240-218633-12	L502153-12 MWT-6	Total/NA	Water	2320 B-2021	
240-218633-13	L502153-13 FB	Total/NA	Water	2320 B-2021	
240-218633-14	L502160-01 MW-7	Total/NA	Water	2320 B-2021	
240-218633-15	L502160-02 MW-7B	Total/NA	Water	2320 B-2021	
240-218633-16	L502160-03 MW-7C	Total/NA	Water	2320 B-2021	
240-218633-17	L502160-04 MW-8	Total/NA	Water	2320 B-2021	
240-218633-18	L502160-05 MW-9	Total/NA	Water	2320 B-2021	
240-218633-19	L502160-06 MW-10	Total/NA	Water	2320 B-2021	
240-218633-20	L502160-07 FB	Total/NA	Water	2320 B-2021	
240-218633-21	L502161-01 MW-100A	Total/NA	Water	2320 B-2021	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

General Chemistry (Continued)

Analysis Batch: 644524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-22	L502161-02 MW-100B	Total/NA	Water	2320 B-2021	
240-218633-23	L502161-03 MW-100C	Total/NA	Water	2320 B-2021	
240-218633-24	L502161-04 MW-100D	Total/NA	Water	2320 B-2021	
240-218633-25	L502161-05 MWT-100C	Total/NA	Water	2320 B-2021	
MB 240-644524/30	Method Blank	Total/NA	Water	2320 B-2021	
MB 240-644524/4	Method Blank	Total/NA	Water	2320 B-2021	
MB 240-644524/56	Method Blank	Total/NA	Water	2320 B-2021	
240-218633-6 DU	L502153-06 MW-11	Total/NA	Water	2320 B-2021	
240-218633-16 DU	L502160-03 MW-7C	Total/NA	Water	2320 B-2021	

Rad

Prep Batch: 702324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total/NA	Water	PrecSep-21	
240-218633-2	L502153-02 MW-2	Total/NA	Water	PrecSep-21	
240-218633-3	L502153-03 MW-4	Total/NA	Water	PrecSep-21	
240-218633-4	L502153-04 MW-5	Total/NA	Water	PrecSep-21	
240-218633-5	L502153-05 MW-6	Total/NA	Water	PrecSep-21	
240-218633-6	L502153-06 MW-11	Total/NA	Water	PrecSep-21	
240-218633-7	L502153-07 MW-11B	Total/NA	Water	PrecSep-21	
240-218633-8	L502153-08 MW-12	Total/NA	Water	PrecSep-21	
240-218633-9	L502153-09 MW-12B	Total/NA	Water	PrecSep-21	
240-218633-10	L502153-10 MW-14	Total/NA	Water	PrecSep-21	
240-218633-11	L502153-11 MW-15	Total/NA	Water	PrecSep-21	
240-218633-12	L502153-12 MWT-6	Total/NA	Water	PrecSep-21	
240-218633-13	L502153-13 FB	Total/NA	Water	PrecSep-21	
240-218633-14	L502160-01 MW-7	Total/NA	Water	PrecSep-21	
240-218633-15	L502160-02 MW-7B	Total/NA	Water	PrecSep-21	
240-218633-16	L502160-03 MW-7C	Total/NA	Water	PrecSep-21	
240-218633-17	L502160-04 MW-8	Total/NA	Water	PrecSep-21	
240-218633-18	L502160-05 MW-9	Total/NA	Water	PrecSep-21	
240-218633-19	L502160-06 MW-10	Total/NA	Water	PrecSep-21	
240-218633-20	L502160-07 FB	Total/NA	Water	PrecSep-21	
MB 160-702324/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-702324/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-218633-7 DU	L502153-07 MW-11B	Total/NA	Water	PrecSep-21	

Prep Batch: 702326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-1	L502153-01 MW-1	Total/NA	Water	PrecSep_0	
240-218633-2	L502153-02 MW-2	Total/NA	Water	PrecSep_0	
240-218633-3	L502153-03 MW-4	Total/NA	Water	PrecSep_0	
240-218633-4	L502153-04 MW-5	Total/NA	Water	PrecSep_0	
240-218633-5	L502153-05 MW-6	Total/NA	Water	PrecSep_0	
240-218633-6	L502153-06 MW-11	Total/NA	Water	PrecSep_0	
240-218633-7	L502153-07 MW-11B	Total/NA	Water	PrecSep_0	
240-218633-8	L502153-08 MW-12	Total/NA	Water	PrecSep_0	
240-218633-9	L502153-09 MW-12B	Total/NA	Water	PrecSep_0	
240-218633-10	L502153-10 MW-14	Total/NA	Water	PrecSep_0	
240-218633-11	L502153-11 MW-15	Total/NA	Water	PrecSep_0	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Rad (Continued)

Prep Batch: 702326 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-12	L502153-12 MWT-6	Total/NA	Water	PrecSep_0	
240-218633-13	L502153-13 FB	Total/NA	Water	PrecSep_0	
240-218633-14	L502160-01 MW-7	Total/NA	Water	PrecSep_0	
240-218633-15	L502160-02 MW-7B	Total/NA	Water	PrecSep_0	
240-218633-16	L502160-03 MW-7C	Total/NA	Water	PrecSep_0	
240-218633-17	L502160-04 MW-8	Total/NA	Water	PrecSep_0	
240-218633-18	L502160-05 MW-9	Total/NA	Water	PrecSep_0	
240-218633-19	L502160-06 MW-10	Total/NA	Water	PrecSep_0	
240-218633-20	L502160-07 FB	Total/NA	Water	PrecSep_0	
MB 160-702326/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-702326/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-218633-7 DU	L502153-07 MW-11B	Total/NA	Water	PrecSep_0	

Prep Batch: 702327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-21	L502161-01 MW-100A	Total/NA	Water	PrecSep-21	
240-218633-22	L502161-02 MW-100B	Total/NA	Water	PrecSep-21	
240-218633-23	L502161-03 MW-100C	Total/NA	Water	PrecSep-21	
240-218633-24	L502161-04 MW-100D	Total/NA	Water	PrecSep-21	
240-218633-25	L502161-05 MWT-100C	Total/NA	Water	PrecSep-21	
MB 160-702327/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-702327/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 702328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218633-21	L502161-01 MW-100A	Total/NA	Water	PrecSep_0	
240-218633-22	L502161-02 MW-100B	Total/NA	Water	PrecSep_0	
240-218633-23	L502161-03 MW-100C	Total/NA	Water	PrecSep_0	
240-218633-24	L502161-04 MW-100D	Total/NA	Water	PrecSep_0	
240-218633-25	L502161-05 MWT-100C	Total/NA	Water	PrecSep_0	
MB 160-702328/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-702328/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-01 MW-1

Lab Sample ID: 240-218633-1

Date Collected: 02/04/25 16:25

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	200.8-1994 R5.4			644579	MN7X	EET CLE	02/12/25 14:00
Dissolved	Analysis	200.7 R4.4-1994		1	645131	AJC	EET CLE	02/17/25 15:55
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/11/25 23:18
Dissolved	Prep	200.8			4968	RMN	EET SSM	02/12/25 14:25
Dissolved	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 14:23
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:16
Dissolved	Prep	200.8-1994 R5.4			644579	MN7X	EET CLE	02/12/25 14:00
Dissolved	Analysis	200.8-1994 R5.4		1	644732	S4FJ	EET CLE	02/13/25 16:34
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 12:44
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Dissolved	Prep	245.1-1994 R3.0			644584	MN7X	EET CLE	02/12/25 14:00
Dissolved	Analysis	245.1-1994 R3.0		1	644747	TQ6W	EET CLE	02/13/25 10:24
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:17
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/11/25 23:12
Total/NA	Analysis	2540 C-2020		1	644180	PQD2	EET CLE	02/10/25 10:53
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/11/25 21:39
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 07:54
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706429	SWS	EET SL	03/06/25 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/07/25 16:17

Client Sample ID: L502153-02 MW-2

Lab Sample ID: 240-218633-2

Date Collected: 02/04/25 12:30

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/11/25 23:43
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:19
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 12:58
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:18
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/11/25 23:18
Total/NA	Analysis	2540 C-2020		1	644180	PQD2	EET CLE	02/10/25 10:54

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-02 MW-2

Lab Sample ID: 240-218633-2

Date Collected: 02/04/25 12:30

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/11/25 22:21
Total/NA	Analysis	300.0-1993 R2.1		5	644447	JMR	EET CLE	02/11/25 22:42
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706561	SWS	EET SL	03/07/25 07:48
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706429	SWS	EET SL	03/06/25 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/07/25 16:17

Client Sample ID: L502153-03 MW-4

Lab Sample ID: 240-218633-3

Date Collected: 02/04/25 14:20

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/11/25 23:56
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:21
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:06
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:20
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/11/25 23:26
Total/NA	Analysis	2540 C-2020		1	644245	PQD2	EET CLE	02/10/25 13:54
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/11/25 23:03
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706561	SWS	EET SL	03/07/25 07:48
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706429	SWS	EET SL	03/06/25 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/07/25 16:17

Client Sample ID: L502153-04 MW-5

Lab Sample ID: 240-218633-4

Date Collected: 02/04/25 16:57

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	200.8-1994 R5.4			644579	MN7X	EET CLE	02/12/25 14:00
Dissolved	Analysis	200.7 R4.4-1994		1	645131	AJC	EET CLE	02/17/25 16:00
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:00
Dissolved	Prep	200.8			4968	RMN	EET SSM	02/12/25 14:25
Dissolved	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 14:26

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-04 MW-5

Lab Sample ID: 240-218633-4

Date Collected: 02/04/25 16:57

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:24
Dissolved	Prep	200.8-1994 R5.4			644579	MN7X	EET CLE	02/12/25 14:00
Dissolved	Analysis	200.8-1994 R5.4		1	644732	S4FJ	EET CLE	02/13/25 16:37
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:09
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Dissolved	Prep	245.1-1994 R3.0			644584	MN7X	EET CLE	02/12/25 14:00
Dissolved	Analysis	245.1-1994 R3.0		1	644747	TQ6W	EET CLE	02/13/25 10:25
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:22
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/11/25 23:32
Total/NA	Analysis	2540 C-2020		1	644245	PQD2	EET CLE	02/10/25 13:54
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 00:28
Total/NA	Analysis	300.0-1993 R2.1		5	644447	JMR	EET CLE	02/12/25 00:49
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706561	SWS	EET SL	03/07/25 07:48
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706429	SWS	EET SL	03/06/25 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/07/25 16:17

Client Sample ID: L502153-05 MW-6

Lab Sample ID: 240-218633-5

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:04
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:32
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:12
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:23
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/11/25 23:37
Total/NA	Analysis	2540 C-2020		1	644245	PQD2	EET CLE	02/10/25 13:54
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 01:10
Total/NA	Analysis	300.0-1993 R2.1		5	644447	JMR	EET CLE	02/12/25 01:31
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706561	SWS	EET SL	03/07/25 07:48

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-05 MW-6

Lab Sample ID: 240-218633-5

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706429	SWS	EET SL	03/06/25 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/07/25 16:17

Client Sample ID: L502153-06 MW-11

Lab Sample ID: 240-218633-6

Date Collected: 02/04/25 10:40

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:08
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:35
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		5	5013	CW	EET SSM	02/13/25 15:38
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:15
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:25
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/11/25 23:54
Total/NA	Analysis	2540 C-2020		1	644245	PQD2	EET CLE	02/10/25 13:54
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 01:52
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706561	SWS	EET SL	03/07/25 07:49
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706429	SWS	EET SL	03/06/25 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/07/25 16:17

Client Sample ID: L502153-07 MW-11B

Lab Sample ID: 240-218633-7

Date Collected: 02/04/25 11:52

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:21
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:41
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:18
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:27

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-07 MW-11B

Lab Sample ID: 240-218633-7

Date Collected: 02/04/25 11:52

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 00:07
Total/NA	Analysis	2540 C-2020		1	644245	PQD2	EET CLE	02/10/25 13:54
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/11/25 20:35
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706561	SWS	EET SL	03/07/25 07:49
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706429	SWS	EET SL	03/06/25 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/07/25 16:17

Client Sample ID: L502153-08 MW-12

Lab Sample ID: 240-218633-8

Date Collected: 02/04/25 14:16

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	200.8-1994 R5.4			644579	MN7X	EET CLE	02/12/25 14:00
Dissolved	Analysis	200.7 R4.4-1994		1	645131	AJC	EET CLE	02/17/25 16:04
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:25
Dissolved	Prep	200.8			4968	RMN	EET SSM	02/12/25 14:25
Dissolved	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 14:28
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:43
Dissolved	Prep	200.8-1994 R5.4			644579	MN7X	EET CLE	02/12/25 14:00
Dissolved	Analysis	200.8-1994 R5.4		1	644732	S4FJ	EET CLE	02/13/25 16:39
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:20
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Dissolved	Prep	245.1-1994 R3.0			644584	MN7X	EET CLE	02/12/25 14:00
Dissolved	Analysis	245.1-1994 R3.0		1	644747	TQ6W	EET CLE	02/13/25 10:27
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:32
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 00:14
Total/NA	Analysis	2540 C-2020		1	644245	PQD2	EET CLE	02/10/25 13:54
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 02:35
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706559	SWS	EET SL	03/07/25 09:44
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:20
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/07/25 16:17

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-09 MW-12B

Lab Sample ID: 240-218633-9

Date Collected: 02/04/25 15:49

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:29
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:46
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:23
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:34
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 00:21
Total/NA	Analysis	2540 C-2020		1	644245	PQD2	EET CLE	02/10/25 13:54
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 03:17
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706559	SWS	EET SL	03/07/25 09:44
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:20
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/07/25 16:17

Client Sample ID: L502153-10 MW-14

Lab Sample ID: 240-218633-10

Date Collected: 02/04/25 07:55

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:34
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:49
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		5	5013	CW	EET SSM	02/13/25 15:52
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:32
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:35
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 00:27
Total/NA	Analysis	2540 C-2020		1	644245	PQD2	EET CLE	02/10/25 13:54
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 04:20
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706559	SWS	EET SL	03/07/25 09:44
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:20

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-10 MW-14

Lab Sample ID: 240-218633-10

Date Collected: 02/04/25 07:55

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Client Sample ID: L502153-11 MW-15

Lab Sample ID: 240-218633-11

Date Collected: 02/04/25 13:35

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:38
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:54
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:34
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:37
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 00:34
Total/NA	Analysis	2540 C-2020		1	644245	PQD2	EET CLE	02/10/25 13:54
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 06:06
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706559	SWS	EET SL	03/07/25 09:44
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:20
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Client Sample ID: L502153-12 MWT-6

Lab Sample ID: 240-218633-12

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:42
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 15:57
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:37
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:39
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 00:39
Total/NA	Analysis	2540 C-2020		1	644245	PQD2	EET CLE	02/10/25 13:54
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 06:48

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502153-12 MWT-6

Lab Sample ID: 240-218633-12

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0-1993 R2.1		5	644447	JMR	EET CLE	02/12/25 07:09
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706559	SWS	EET SL	03/07/25 09:44
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:20
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Client Sample ID: L502153-13 FB

Lab Sample ID: 240-218633-13

Date Collected: 02/04/25 06:55

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:46
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 16:05
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:40
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:41
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 00:46
Total/NA	Analysis	2540 C-2020		1	644245	PQD2	EET CLE	02/10/25 13:54
Total/NA	Analysis	2540D-2020		1	644338	C5SV	EET CLE	02/11/25 09:45
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 05:03
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706559	SWS	EET SL	03/07/25 09:44
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:20
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Client Sample ID: L502160-01 MW-7

Lab Sample ID: 240-218633-14

Date Collected: 02/05/25 14:56

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:51
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 16:08
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:43
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-01 MW-7

Lab Sample ID: 240-218633-14

Date Collected: 02/05/25 14:56

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:42
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 00:50
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644343	C5SV	EET CLE	02/11/25 09:50
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 07:31
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 09:53
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Client Sample ID: L502160-02 MW-7B

Lab Sample ID: 240-218633-15

Date Collected: 02/05/25 16:09

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:55
Total/NA	Prep	200.8			4970	RMN	EET SSM	02/12/25 14:31
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 16:10
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:46
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:44
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 00:59
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644521	TAV2	EET CLE	02/12/25 09:36
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 08:57
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 09:53
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Client Sample ID: L502160-03 MW-7C

Lab Sample ID: 240-218633-16

Date Collected: 02/05/25 17:24

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 00:59

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-03 MW-7C

Lab Sample ID: 240-218633-16

Date Collected: 02/05/25 17:24

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	200.8			4968	RMN	EET SSM	02/12/25 14:25
Total/NA	Analysis	200.8		1	5013	CW	EET SSM	02/13/25 14:36
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:49
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:46
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 01:05
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644521	TAV2	EET CLE	02/12/25 09:36
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 09:19
Total/NA	Analysis	300.0-1993 R2.1		5	644447	JMR	EET CLE	02/12/25 09:40
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 09:53
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Client Sample ID: L502160-04 MW-8

Lab Sample ID: 240-218633-17

Date Collected: 02/05/25 13:36

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 01:12
Total/NA	Prep	200.8			5003	RMN	EET SSM	02/13/25 14:44
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 14:30
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:51
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:00
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:47
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 01:15
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644521	TAV2	EET CLE	02/12/25 09:36
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 10:01
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 09:53
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-05 MW-9

Lab Sample ID: 240-218633-18

Date Collected: 02/05/25 12:14

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 01:16
Total/NA	Prep	200.8			5003	RMN	EET SSM	02/13/25 14:44
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 14:33
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:54
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:53
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 01:21
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644521	TAV2	EET CLE	02/12/25 09:36
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 10:22
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 09:53
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Client Sample ID: L502160-06 MW-10

Lab Sample ID: 240-218633-19

Date Collected: 02/05/25 10:53

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 01:20
Total/NA	Prep	200.8			5003	RMN	EET SSM	02/13/25 14:44
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 14:35
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 13:57
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:54
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 01:26
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644521	TAV2	EET CLE	02/12/25 09:36
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 10:43
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 09:53
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502160-07 FB

Lab Sample ID: 240-218633-20

Date Collected: 02/05/25 10:00

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 01:25
Total/NA	Prep	200.8			5003	RMN	EET SSM	02/13/25 14:44
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 14:38
Total Recoverable	Prep	200.7			644187	BN	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644581	AJC	EET CLE	02/12/25 14:05
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644189	BN	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 09:59
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 01:32
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644521	TAV2	EET CLE	02/12/25 09:36
Total/NA	Analysis	300.0-1993 R2.1		1	644447	JMR	EET CLE	02/12/25 11:04
Total/NA	Prep	PrecSep-21			702324	OGC	EET SL	02/11/25 07:07
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 09:53
Total/NA	Prep	PrecSep_0			702326	OGC	EET SL	02/11/25 07:11
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 14:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Client Sample ID: L502161-01 MW-100A

Lab Sample ID: 240-218633-21

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644195	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 06:59
Total/NA	Prep	200.8			5003	RMN	EET SSM	02/13/25 14:44
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 14:41
Total Recoverable	Prep	200.7			644195	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 17:59
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644197	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 10:04
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 01:36
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644521	TAV2	EET CLE	02/12/25 09:36
Total/NA	Analysis	300.0-1993 R2.1		1	644448	JMR	EET CLE	02/12/25 06:19
Total/NA	Prep	PrecSep-21			702327	OGC	EET SL	02/11/25 07:12
Total/NA	Analysis	903.0		1	706173	SWS	EET SL	03/05/25 10:15
Total/NA	Prep	PrecSep_0			702328	OGC	EET SL	02/11/25 07:15
Total/NA	Analysis	904.0		1	705036	SWS	EET SL	02/27/25 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-02 MW-100B

Lab Sample ID: 240-218633-22

Date Collected: 02/05/25 12:45

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644195	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 07:16
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:25
Total Recoverable	Prep	200.7			644195	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 18:01
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644197	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 10:06
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 01:42
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644521	TAV2	EET CLE	02/12/25 09:36
Total/NA	Analysis	300.0-1993 R2.1		1	644448	JMR	EET CLE	02/12/25 07:25
Total/NA	Prep	PrecSep-21			702327	OGC	EET SL	02/11/25 07:12
Total/NA	Analysis	903.0		1	706173	SWS	EET SL	03/05/25 10:15
Total/NA	Prep	PrecSep_0			702328	OGC	EET SL	02/11/25 07:15
Total/NA	Analysis	904.0		1	705036	SWS	EET SL	02/27/25 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Client Sample ID: L502161-03 MW-100C

Lab Sample ID: 240-218633-23

Date Collected: 02/05/25 14:07

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644195	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 07:20
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:27
Total Recoverable	Prep	200.7			644195	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 18:04
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644197	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 10:08
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 01:48
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644521	TAV2	EET CLE	02/12/25 09:36
Total/NA	Analysis	300.0-1993 R2.1		1	644448	JMR	EET CLE	02/12/25 07:46
Total/NA	Prep	PrecSep-21			702327	OGC	EET SL	02/11/25 07:12
Total/NA	Analysis	903.0		1	706173	SWS	EET SL	03/05/25 10:15
Total/NA	Prep	PrecSep_0			702328	OGC	EET SL	02/11/25 07:15
Total/NA	Analysis	904.0		1	705036	SWS	EET SL	02/27/25 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Client Sample ID: L502161-04 MW-100D

Lab Sample ID: 240-218633-24

Date Collected: 02/05/25 15:40

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644195	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 07:24
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:35
Total Recoverable	Prep	200.7			644195	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 18:07
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644197	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 10:13
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 01:57
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644521	TAV2	EET CLE	02/12/25 09:36
Total/NA	Analysis	300.0-1993 R2.1		1	644448	JMR	EET CLE	02/12/25 08:08
Total/NA	Prep	PrecSep-21			702327	OGC	EET SL	02/11/25 07:12
Total/NA	Analysis	903.0		1	706173	SWS	EET SL	03/05/25 10:15
Total/NA	Prep	PrecSep_0			702328	OGC	EET SL	02/11/25 07:15
Total/NA	Analysis	904.0		1	705036	SWS	EET SL	02/27/25 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Client Sample ID: L502161-05 MWT-100C

Lab Sample ID: 240-218633-25

Date Collected: 02/05/25 14:07

Matrix: Water

Date Received: 02/07/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644195	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/12/25 07:29
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:38
Total Recoverable	Prep	200.7			644195	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 18:10
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644197	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644600	GEV	EET CLE	02/12/25 10:15
Total/NA	Analysis	2320 B-2021		1	644524	PQD2	EET CLE	02/12/25 02:03
Total/NA	Analysis	2540 C-2020		1	644397	C5SV	EET CLE	02/11/25 12:06
Total/NA	Analysis	2540D-2020		1	644521	TAV2	EET CLE	02/12/25 09:36
Total/NA	Analysis	300.0-1993 R2.1		1	644448	JMR	EET CLE	02/12/25 08:30
Total/NA	Prep	PrecSep-21			702327	OGC	EET SL	02/11/25 07:12
Total/NA	Analysis	903.0		1	706173	SWS	EET SL	03/05/25 10:15
Total/NA	Prep	PrecSep_0			702328	OGC	EET SL	02/11/25 07:15
Total/NA	Analysis	904.0		1	705036	SWS	EET SL	02/27/25 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	706456	SCB	EET SL	03/10/25 11:02

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Laboratory References:

- EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396
- EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566
- EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4062	02-27-25

Laboratory: Eurofins Seattle Specialty Metals

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	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-27
ANAB	Dept. of Energy	L2236.01	01-19-27
ANAB	ISO/IEC 17025	L2236	01-19-27
California	State	2954	07-07-25
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

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	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-08-25
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	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
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	06-30-25
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
MI - RadChem Recognition	State	9005	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Cleveland

Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218633-1

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	06-30-25
Oklahoma	NELAP	9997	08-31-25
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

Chain of Custody

Return Samples to: Eurofins Michigan
10448 Citation Drive
Brighton, MI 48116

Contains Rush Work: 

Contains Methods That May Expire Soon: ☐

Client Contact Info					
Name: Jennifer Caporale Address : 1110 South Pennsylvania Address 2: City, State Zip: Lansing, Michigan 48901 Phone: 517-702-6482 Email: Jennifer.Caporale@LBWL.com Deliverables:					
Project Info					
Company: Lansing Board of Water & Light Purchase Order: Purchase Order not required Work Order: Requested TAT: Project Number: 24034575 Sample State: Special Instructions: Please send EDD using Promium template with report, Please follow the attached RL's, All methods must be approved 40 CFR 136.					
Project Manager: Howell, Leslie Project Reference: Sampler: Marc Wahrer and Julie Maltby Description: Erickson Wellfield Site Name: Erickson Projects					
Methods and Bottles					
904.0/PrecSep_0 Standard Target List [STD] Ra226_228AS_P Local Method [160] 200.7/200.7_P_TR (MOD) 1 element, including prep [C01] 300.0_28D (MOD) All Anions [ANY] 903.0/PrecSep_21 Standard Target List [STD] 2540D Solids, Total Suspended (TSS) [TSS] 245.1/245.1_Prep Mercury [MER] 2540C_Calc'd Total Dissolved Solids [TDS] 200.8/200.8_P_TR (MOD) 1 element, including prep [C01] SM2340B/Auto_TotalRec Total Hardness (as CaCO3) by calculation [HAR] 2320B (MOD) Any Analyte [ANY] 200.8 / Metals (ICPMS) / Custom List 2: 2-3 Metals Ra226_Ra228 Pos / Combined Radium-226 and Radium-228 2540 C-2020 / Solids, Total Dissolved (TDS) / Total Dissolved Solids 200.7 Rev 4.4 / Metals (ICP) / Custom List 2: 2-3 Metals Plastic 60 mL - unpreserved Plastic 500ml - with Nitric Acid Plastic 1 liter - unpreserved Plastic 500ml - unpreserved Plastic 1 liter - Nitric Acid Total Bottles For Sample					

Chain of Custody

Return Samples to: Eurofins Michigan
10448 Citation Drive
Brighton, MI 48116

Client Contact Info				Project Info				Methods and Bottles																					
Name: Jennifer Caporale				Company: Lansing Board of Water & Light				Project Manager: Howell, Leslie																					
Address : 1110 South Pennsylvania				Purchase Order: Purchase Order not required				Project Reference:																					
Address 2:				Work Order:				Sampler: Marc Wahrer and Julie Maltby																					
City, State Zip: Lansing, Michigan 48901				Requested TAT:				Description: Erickson Wellfield																					
Phone: 517-702-6482				Project Number: 24034575				Site Name: Erickson Projects																					
Email: Jennifer.Caporale@LBWL.com				Sample State:																									
Deliverables:				Special Instructions: Please send EDD using Promium template with report, Please follow the attached RL's, All methods must be approved 40 CFR 136.																									
Samples																													
#	Sample Name	Type	Matrix	Date/Time (24hr)	MS / MSD	Instructions/Comments	Lat/Long	904.0/PrecSep_0 Standard Target List [STD]	Ra226_228AS_P Local Method [160]	200.7/200.7_P_TR (MOD) 1 element, including prep [C01]	300.0_28D (MOD) All Anions [ANY]	903.0/PrecSep_21 Standard Target List [STD]	2540D Solids, Total Suspended (TSS) [TSS]	245.1/245.1_Prep Mercury [MER]	2540C_Calcd Total Dissolved Solids [TDS]	200.8/200.8_P_TR (MOD) 1 element, including prep [C01]	SM2340B/Auto_TotalRec Total Hardness (as CaCO3) by calculation [HAR]	2320B (MOD) Any Analyte [ANY]	200.8 / Metals (ICP/MS) / Custom List 2: 2-3 Metals	Ra226_Ra228 Pos / Combined Radium-226 and Radium-228	2540 C-2020 / Solids, Total Dissolved (TDS) / Total Dissolved Solids	200.7 Rev 4.4 / Metals (ICP) / Custom List 2: 2-3 Metals	Plastic 60 mL - unpreserved	Plastic 500ml - with Nitric Acid	Plastic 1 liter - unpreserved	Plastic 500ml - unpreserved	Plastic 1 liter - Nitric Acid	Total Bottles For Sample	
13	L502153-13 FB	Grab	Water	02/04/25 06:55				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7
14	L502160-01 MW-7	Grab	Water	02/05/25 14:56				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7
15	L502160-02 MW-7B	Grab	Water	02/05/25 16:09				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7
16	L502160-03 MW-7C	Grab	Water	02/05/25 17:24				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7
17	L502160-04 MW-8	Grab	Water	02/05/25 13:36				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7
18	L502160-05 MW-9	Grab	Water	02/05/25 12:14				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7
19	L502160-06 MW-10	Grab	Water	02/05/25 10:53				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7
20	L502160-07 FB	Grab	Water	02/05/25 10:00				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7
21	L502161-01 MW-100A	Grab	Water	02/05/25 16:15				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7
22	L502161-02 MW-100B	Grab	Water	02/05/25 12:45				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7
23	L502161-03 MW-100C	Grab	Water	02/05/25 14:07				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7
24	L502161-04 MW-100D	Grab	Water	02/05/25 15:40				X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	2	7

Chain of Custody

Return Samples to: Eurofins Michigan
10448 Citation Drive
Brighton, MI 48116

Contains Rush Work: ☐ Contains Methods That May Expire Soon: ☐

Client Contact Info

Name:

Jennifer Caporale

Address :

1110 South Pennsylvania

Address 2:

City, State Zip:

Lansing, Michigan 48901

Phone:

517-702-6482

Email:

Jennifer.Caporale@LBWL.com

Deliverables:

Project Info

Company:

Lansing Board of Water & Light

Purchase Order:

Purchase Order not required

Work Order:

Requested TAT:

Project Number:

24034575

Sample State:

Special Instructions:

Please send EDD using Premium template with report, Please follow the attached RL's, All methods must be approved 40 CFR 136.

Project Manager:

Howell, Leslie

Project Reference:

Sampler:

Marc Wahrer and Julie Maltby

Description:

Erickson Wellfield

Site Name:

Erickson Projects

Methods and Bottles

904.0/PrecSep_0 Standard Target List [STD]

Ra226_228AS_P Local Method [160]

200.7/200.7_P_TR (MOD) 1 element, including prep [C01]

300.0_28D (MOD) All Anions [ANY]

903.0/PrecSep_21 Standard Target List [STD]

2540D Solids, Total Suspended (TSS) [TSS]

245.1/245.1_Prep Mercury [MER]

2540C_Calcd Total Dissolved Solids [TDS]

200.8/200.8_P_TR (MOD) 1 element, including prep [C01]

SM2340B/Auto_TotalRec Total Hardness (as CaCO3) by calculation [HAR]

2320B (MOD) Any Analyte [ANY]

200.8 / Metals (ICP/MS) / Custom List 2: 2-3 Metals

Ra226_Ra228 Pos / Combined Radium-226 and Radium-228

2540 C-2020 / Solids, Total Dissolved (TDS) / Total Dissolved Solids

200.7 Rev 4.4 / Metals (ICP) / Custom List 2: 2-3 Metals

Plastic 60 mL - unpreserved

Plastic 500ml - with Nitric Acid

Plastic 1 liter - unpreserved

Plastic 500ml - unpreserved

Plastic 1 liter - Nitric Acid

Total Bottles For Sample

Samples							
#	Sample Name	Type	Matrix	Date/Time (24hr)	MS / MSD	Instructions/Comments	Lat/Long
25	L502161-05 MWT-100C	Grab	Water	02/05/25 14:07			

Possible Hazards : Unknown

Sample Disposal (A fee may be assessed, if samples are retained longer than 1 month) :

Custody History (All dates and times have been converted to the Eastern time zone and are in 24 Hr format.)

eCOC Submitted By:	Date/Time:	Samples Relinquished To:	Date/Time:	
Jennifer Caporale	02/06/25 09:08	Michigan - Waypoint courier Jennifer Caporale	02/06/25 09:08	

Coolers								
Cooler Name	Cooler Description	QR/Barcode	Uncorrected Cooler Temperature (?C)	Corrected Cooler Temperature	Thermometer ID	Temperature Checked By	Cooler Ice Type	Cooler Packing Type
MIC20250206A003								
MIC20250206A003								
MIC20250206A005								
MIC20250206A006								
MIC20250206A006								
MIC20250206A012								
MIC20250206A015								
MIC20250206A016								

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Contains Methods That May Expire Soon: ☐

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

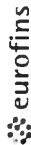
Page 1 of 4

Eurofins Cleveland

180 S. Van Buren Avenue
Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Howell, Leslie	Carrier Tracking No(s): N/A	COC No: 240-198044-1								
Client Contact		Phone: N/A	E-Mail: Leslie.Howell@eurofins.com	State of Origin: Michigan	Page: Page 1 of 3								
Shipping/Receiving		Phone: N/A	E-Mail: Leslie.Howell@eurofins.com	State of Origin: Michigan	Job #: 240-218633-1								
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon											
Address: 13715 Rider Trail North,		Due Date Requested: 2/20/2025											
City: Earth City		TAT Requested (days): N/A											
State, Zip: MO, 63045		PO #: N/A											
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #: N/A											
Email: N/A		Project #: 24034575											
Project Name: Erickson Projects		SSOW#: N/A											
Site: N/A		Site: N/A											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, A=air)	Preservation Code: (BT=Butter, A=Ally)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep. 21 Standard Target List	904.0/PreSep. 0 Standard Target List	Ra226, 228AS, P	Total Number of Containers	Special Instructions/Note:
L502153-01 MW-1 (240-218633-1)		2/4/25	16:25 Eastern	G	Water				X	X	X	2	
L502153-02 MW-2 (240-218633-2)		2/4/25	12:30 Eastern	G	Water				X	X	X	2	
L502153-03 MW-4 (240-218633-3)		2/4/25	14:20 Eastern	G	Water				X	X	X	2	
L502153-04 MW-5 (240-218633-4)		2/4/25	16:57 Eastern	G	Water				X	X	X	2	
L502153-05 MW-6 (240-218633-5)		2/4/25	09:38 Eastern	G	Water				X	X	X	2	
L502153-06 MW-11 (240-218633-6)		2/4/25	10:40 Eastern	G	Water				X	X	X	2	
L502153-07 MW-11B (240-218633-7)		2/4/25	11:52 Eastern	G	Water				X	X	X	2	
L502153-08 MW-12 (240-218633-8)		2/4/25	14:16 Eastern	G	Water				X	X	X	2	
L502153-09 MW-12B (240-218633-9)		2/4/25	15:49 Eastern	G	Water				X	X	X	2	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.													
Possible Hazard Identification													
Unconfirmed													
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2													
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months													
Special Instructions/QC Requirements:													
Empty Kit Relinquished by: Date: Time: Method of Shipment:													
Relinquished by: [Signature] Date/Time: 2/7/25 Company: Euro													
Relinquished by: Date/Time: Company: [Signature] Date/Time: FEB 10 2025 0820 Company: EPA													
Relinquished by: Date/Time: Company:													
Custody Seals Intact: ☐ Yes ☐ No ☐ No Cooler Temperature(s) °C and Other Remarks:													

Eurofins Cleveland

180 S. Van Buren Avenue
Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Howell, Leslie	Carrier Tracking No(s): N/A	COC No: 240-198044 2						
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Leslie.Howell@eurofins.com	State of Origin: Michigan	Page: Page 2 of 3						
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon			Job #: 240-218633-1						
Address: 13715 Rider Trail North,		Preservation Codes:									
City: Earth City	State, Zip: MO, 63045	Analysis Requested									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A	Due Date Requested: 2/20/2025									
Email: N/A	WO #: N/A	TAT Requested (days): N/A									
Project Name: Erickson Projects	Project #: 24034575	Field Filtered Sample (Yes or No)									
Site: N/A	SSOW#: N/A	Perform MS/MSD (Yes or No)									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, B=solid, O=soil, BT=tissue, A=air)	Preservation Code	903.0/PreSep. 21 Standard Target List	904.0/PreSep. 0 Standard Target List	Ra226.228As_P	Total Number of Containers	Special Instructions/Note:
L502153-10 MW-14 (240-218633-10)	2/4/25	07:55 Eastern	G	Water	X	X	X	X	X	2	
L502153-11 MW-15 (240-218633-11)	2/4/25	13:35 Eastern	G	Water	X	X	X	X	X	2	
L502153-12 MW-6 (240-218633-12)	2/4/25	09:38 Eastern	G	Water	X	X	X	X	X	2	
L502153-13 FB (240-218633-13)	2/4/25	06:55 Eastern	G	Water	X	X	X	X	X	2	
L502160-01 MW-7 (240-218633-14)	2/5/25	14:56 Eastern	G	Water	X	X	X	X	X	2	
L502160-02 MW-7B (240-218633-15)	2/5/25	16:09 Eastern	G	Water	X	X	X	X	X	2	
L502160-03 MW-7C (240-218633-16)	2/5/25	17:24 Eastern	G	Water	X	X	X	X	X	2	
L502160-04 MW-8 (240-218633-17)	2/5/25	13:36 Eastern	G	Water	X	X	X	X	X	2	
L502160-05 MW-9 (240-218633-18)	2/5/25	12:14 Eastern	G	Water	X	X	X	X	X	2	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months											
Special Instructions/QC Requirements:											
Empty Kit Relinquished by:											
Date:											
Time:											
Relinquished by: <i>JF</i> Company: Euro											
Relinquished by: Date/Time: 2/1/25											
Relinquished by: Date/Time: Received by: Sara Wedington Date/Time: 2/10/2025 0820											
Relinquished by: Date/Time: Received by: Date/Time: Company: Euro											
Custody Seals Intact: ☐ Yes ☐ No Cooler Temperature(s) °C and Other Remarks:											

Ver: 10/10/2024

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Client Information (Sub Contract Lab)						Lab PM: Howell, Leslie		Carrier Tracking No(s) N/A		COC No: 240-198044.3				
Shipping/Receiving Company TestAmerica Laboratories, Inc.						Phone: N/A		State of Origin: Michigan		Page: Page 3 of 3				
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: N/A						E-Mail: Leslie.Howell@eurofinsus.com		Job #: 240-218633-1						
Project Name: Erickson Projects						Accreditations Required (See note) NELAP - Oregon		Preservation Codes:						
Site: N/A														
Due Date Requested: 2/20/2025						Analysis Requested								
TAT Requested (days): N/A														
PO #: N/A														
WO #: N/A														
Project #: 24034575														
SSOW#: N/A														
Sample Identification - Client ID (Lab ID)						Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Raz26_Z28AS_P	Total Number of Containers	Special Instructions/Note:
L502160-06 MW-10 (240-218633-19)	2/5/25	10:53 Eastern	G	Water	X	X	X	X	X	X	X	X	2	
L502160-07 FB (240-218633-20)	2/5/25	10:00 Eastern	G	Water	X	X	X	X	X	X	X	X	2	
L502161-01 MW-100A (240-218633-21)	2/5/25	16:15 Eastern	G	Water	X	X	X	X	X	X	X	X	2	
L502161-02 MW-100B (240-218633-22)	2/5/25	12:45 Eastern	G	Water	X	X	X	X	X	X	X	X	2	
L502161-03 MW-100C (240-218633-23)	2/5/25	14:07 Eastern	G	Water	X	X	X	X	X	X	X	X	2	
L502161-04 MW-100D (240-218633-24)	2/5/25	15:40 Eastern	G	Water	X	X	X	X	X	X	X	X	2	
L502161-05 MWT-100C (240-218633-25)	2/5/25	14:07 Eastern	G	Water	X	X	X	X	X	X	X	X	2	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested: I, II, III, IV, Other (specify)														
Primary Deliverable Rank: 2														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
Return To Client Disposal By Lab Archive For Months														
Special Instructions/QC Requirements:														
Time:														
Date:														
Relinquished by:														
Relinquished by:														
Relinquished by:														
Custody Seal Intact: Δ Yes Δ No														
Cooler Temperature(s) °C and Other Remarks														

Environment Testing

Therm. ID: SC03 Cust. Seal: ② N
Uncorr./Corr. Temp: 62/61 °C
Delivery: UPS / FedEx / Other:
Ice Type: Blue / Dry / Wet / None
Label Ver.: 1 Packing: 13

Chain of Custody Record



Environment Testing

Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Ver: 10/10/2024

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

 **eurofins**
Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A	Lab Pk: Howell Leslie	Carrier Tracking No(s): N/A	COC No: 240-198116-2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Leslie.Howell@eurofins.com	State of Origin: Michigan	Page: Page 2 of 3	
Company: Eurofins Environment Testing Northwest		Accreditations Required (See note): NELAP - Oregon		Job #: 240-218633-1	
Address: 5755 8th Street East, Tacoma WA, 98424		Due Date Requested: 2/20/2025		Preservation Codes:	
City: Tacoma		TAT Requested (days): N/A		Analysis Requested	
State Zip: WA, 98424		PO #: N/A			
Phone: 253-922-2310(Tel)		W/O #: N/A			
Email: N/A		Project #: 24034575			
Project Name: Erickson Projects		SSOW#: N/A			
Site: N/A		Field Filtered Sample (Yes or No):			
		Perform MS/MSD (Yes or No):			
		200.8_CWA/200.8_P_TOT (MOD) Custom List 2: 2-3 Metals			
		Total Number of Containers:		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, B=biomass, A=air)
L502153-10 MW-14 (240-218633-10)	2/4/25	07:55	Eastern	G	Water
L502153-11 MW-15 (240-218633-11)	2/4/25	13:35	Eastern	G	Water
L502153-12 MW-16 (240-218633-12)	2/4/25	09:38	Eastern	G	Water
L502153-13 FB (240-218633-13)	2/4/25	06:55	Eastern	G	Water
L502160-01 MW-7 (240-218633-14)	2/5/25	14:56	Eastern	G	Water
L502160-02 MW-7B (240-218633-15)	2/5/25	16:09	Eastern	G	Water
L502160-03 MW-7C (240-218633-16)	2/5/25	17:24	Eastern	G	Water
L502160-04 MW-8 (240-218633-17)	2/5/25	13:36	Eastern	G	Water
L502160-05 MW-9 (240-218633-18)	2/5/25	12:14	Eastern	G	Water
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.					
Possible Hazard Identification					
☐ Sample Disposal (A Fee may be assessed if samples are retained longer than 1 month)					
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/ICC Requirements:	
Empty Kit Relinquished by: [Signature]		Date: 2/16/25	Time: 10:10	Method of Shipment:	
Relinquished by: [Signature]		Date/Time: 2/16/25	Received by: [Signature]	Date/Time: 2/16/25	Company: [Signature]
Relinquished by: [Signature]		Date/Time: [Signature]	Received by: [Signature]	Date/Time: [Signature]	Company: [Signature]
Custody Seal Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

180 S. Van Buren Avenue
Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-218633-1

Login Number: 218633

List Number: 3

Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals

List Creation: 02/11/25 12:57 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.	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	
Is the Field Sampler's name present on COC?	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	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-218633-1

Login Number: 218633

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 02/10/25 11:11 AM

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	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jennifer Caporale
Lansing Board of Water & Light
1110 South Pennsylvania
Lansing, Michigan 48901

Generated 3/11/2025 5:10:51 PM

JOB DESCRIPTION

Erickson Projects

JOB NUMBER

240-218718-1

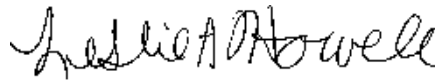
Eurofins Cleveland

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 Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Lansing Board of Water & Light
Project: Erickson Projects

Job ID: 240-218718-1

Job ID: 240-218718-1

Eurofins Cleveland

Job Narrative 240-218718-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/8/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.2°C, 3.8°C and 5.5°C.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540D: The sample duplicate (DUP) precision for analytical batch 240-644566 was outside control limits. Sample non-homogeneity is suspected.

Method 2540D: The sample duplicate (DUP) precision for analytical batch 240-644566 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gas Flow Proportional Counter

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.

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Method Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Method	Method Description	Protocol	Laboratory
200.7 R4.4-1994	Metals (ICP)	EPA	EET CLE
200.8	Metals (ICP/MS)	EPA	EET SSM
200.8-1994 R5.4	Metals (ICP/MS)	EPA	EET CLE
2340 B-2021	Total Hardness (as CaCO3) by calculation	SM	EET CLE
245.1-1994 R3.0	Mercury (CVAA)	EPA	EET CLE
2320 B-2021	Alkalinity	SM	EET CLE
2540 C-2020	Solids, Total Dissolved (TDS)	SM	EET CLE
2540D-2020	Solids, Total Suspended (TSS)	SM	EET CLE
300.0-1993 R2.1	Anions, Ion Chromatography	EPA	EET CLE
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
Pos			
200.7	Preparation, Total Recoverable Metals	EPA	EET CLE
200.8	Preparation, Total Metals	EPA	EET SSM
200.8-1994 R5.4	Preparation, Total Recoverable Metals	EPA	EET CLE
245.1-1994 R3.0	Preparation, Mercury	EPA	EET CLE
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

SM = "Standard Methods For The Examination Of Water And Wastewater"

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-218718-26	L502169-01 MW-3	Water	02/06/25 09:42	02/08/25 08:00
240-218718-27	L502169-02 MW-13	Water	02/06/25 11:40	02/08/25 08:00
240-218718-28	L502169-03 MWT-3	Water	02/06/25 09:42	02/08/25 08:00
240-218718-29	L502169-04 MW-16A	Water	02/06/25 11:38	02/08/25 08:00
240-218718-30	L502169-05 MW-16B	Water	02/06/25 13:13	02/08/25 08:00
240-218718-31	L502169-06 MW-16C	Water	02/06/25 14:45	02/08/25 08:00
240-218718-32	L502169-07 MW-16D	Water	02/06/25 13:41	02/08/25 08:00
240-218718-33	L502169-08 FLD BLK	Water	02/06/25 10:10	02/08/25 08:00

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-01 MW-3

Lab Sample ID: 240-218718-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	5.6		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.0026	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.016		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cobalt	0.00049	J	0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.15		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Nickel	0.0022		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	230		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	46		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.075		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	1.6		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0018	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	760		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	180	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	1200		20	16	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	4.1		4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	95		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.19		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	690		5.0	1.7	mg/L	5		300.0-1993 R2.1	Total/NA

Client Sample ID: L502169-02 MW-13

Lab Sample ID: 240-218718-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.18		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.0057		0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.036		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cobalt	0.00091	J	0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	140		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	32		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	1.2		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0033	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	490		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	360	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	520		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	1.9	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	11		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.14		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	110		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-03 MWT-3

Lab Sample ID: 240-218718-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	5.6		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.0023	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.017		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cobalt	0.00048	J	0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.15		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Nickel	0.0023		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	230		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	46		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.073		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	1.6		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0019	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	760		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	180	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	1300		20	16	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	4.0	J	8.0	0.80	mg/L	1		2540D-2020	Total/NA
Chloride	95		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.18		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	670		5.0	1.7	mg/L	5		300.0-1993 R2.1	Total/NA

Client Sample ID: L502169-04 MW-16A

Lab Sample ID: 240-218718-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.21		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.0018	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.16		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cobalt	0.0012		0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0017	J	0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Nickel	0.0015	J	0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	200		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	52		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.0035	J	0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	3.2		0.10	0.013	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	720		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	420	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	1500		20	16	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	6.8		4.0	0.40	mg/L	1		2540D-2020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-04 MW-16A (Continued)

Lab Sample ID: 240-218718-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	480		10	1.3	mg/L	10		300.0-1993 R2.1	Total/NA
Fluoride	0.098		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	240		10	3.5	mg/L	10		300.0-1993 R2.1	Total/NA

Client Sample ID: L502169-05 MW-16B

Lab Sample ID: 240-218718-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.11		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Barium	0.086		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0062		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	82		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	35		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.021		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	0.40		0.10	0.013	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	350		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	340	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	350		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	1.4	J	8.0	0.80	mg/L	1		2540D-2020	Total/NA
Chloride	2.8		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	1.0		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	21		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502169-06 MW-16C

Lab Sample ID: 240-218718-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.39		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Barium	0.027		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	75		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	31		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.028		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	0.36		0.10	0.013	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	320		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	320	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	320		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	0.90	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	1.1		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.51		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	11		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-07 MW-16D

Lab Sample ID: 240-218718-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	4.3		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.0023	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.033		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0096		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	29		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	7.5		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.030		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	0.40		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0014	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	100		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	320	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	370		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	1.8	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	6.5		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.76		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	5.9		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502169-08 FLD BLK

Lab Sample ID: 240-218718-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0011	J	0.0070	0.00093	mg/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-01 MW-3

Lab Sample ID: 240-218718-26

Date Collected: 02/06/25 09:42

Matrix: Water

Date Received: 02/08/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	5.6		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 22:27	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 18:49	1
Arsenic	0.0026	J	0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 18:49	1
Barium	0.016		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 18:49	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 18:49	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 18:49	1
Cobalt	0.00049	J	0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 18:49	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 18:49	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 18:49	1
Molybdenum	0.15		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 18:49	1
Nickel	0.0022		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 18:49	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 18:49	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 18:49	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 18:49	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 18:49	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 18:49	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 18:49	1
Calcium	230		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 18:49	1
Magnesium	46		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 18:49	1
Lithium	0.075		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 18:49	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.6		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:07	1
Zinc	0.0018	J	0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:07	1
Zinc	ND		0.035	0.0046	mg/L		02/13/25 16:37	02/14/25 15:10	5

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	760		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/11/25 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	180	B	5.0	2.6	mg/L			02/12/25 16:29	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 16:29	1
Total Dissolved Solids (SM 2540 C-2020)	1200		20	16	mg/L			02/13/25 11:23	1
Total Suspended Solids (SM 2540D-2020)	4.1		4.0	0.40	mg/L			02/12/25 10:29	1
Chloride (EPA 300.0-1993 R2.1)	95		1.0	0.13	mg/L			02/18/25 15:54	1
Fluoride (EPA 300.0-1993 R2.1)	0.19		0.050	0.024	mg/L			02/18/25 15:54	1
Sulfate (EPA 300.0-1993 R2.1)	690		5.0	1.7	mg/L			02/18/25 16:16	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-01 MW-3

Lab Sample ID: 240-218718-26

Date Collected: 02/06/25 09:42

Matrix: Water

Date Received: 02/08/25 08:00

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	0.0695	U	0.183	0.183	1.00	0.331	pCi/L	02/13/25 07:57	03/07/25 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					02/13/25 07:57	03/07/25 09:50	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	0.179	U	0.388	0.388	1.00	0.676	pCi/L	02/13/25 08:01	03/06/25 12:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					02/13/25 08:01	03/06/25 12:31	1
Y Carrier	77.0		30 - 110					02/13/25 08:01	03/06/25 12:31	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	0.249	U	0.429	0.429	5.00	0.676	pCi/L		03/10/25 11:34	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-02 MW-13

Lab Sample ID: 240-218718-27

Date Collected: 02/06/25 11:40

Matrix: Water

Date Received: 02/08/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.18		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 22:40	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 18:52	1
Arsenic	0.0057		0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 18:52	1
Barium	0.036		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 18:52	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 18:52	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 18:52	1
Cobalt	0.00091	J	0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 18:52	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 18:52	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 18:52	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 18:52	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 18:52	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 18:52	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 18:52	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 18:52	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 18:52	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 18:52	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 18:52	1
Calcium	140		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 18:52	1
Magnesium	32		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 18:52	1
Lithium	ND		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 18:52	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.2		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:41	1
Zinc	0.0033	J	0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:41	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	490		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/11/25 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	360	B	5.0	2.6	mg/L			02/12/25 16:34	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 16:34	1
Total Dissolved Solids (SM 2540 C-2020)	520		10	7.8	mg/L			02/13/25 11:23	1
Total Suspended Solids (SM 2540D-2020)	1.9	J	4.0	0.40	mg/L			02/12/25 10:29	1
Chloride (EPA 300.0-1993 R2.1)	11		1.0	0.13	mg/L			02/18/25 16:38	1
Fluoride (EPA 300.0-1993 R2.1)	0.14		0.050	0.024	mg/L			02/18/25 16:38	1
Sulfate (EPA 300.0-1993 R2.1)	110		1.0	0.35	mg/L			02/18/25 16:38	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-02 MW-13

Lab Sample ID: 240-218718-27

Date Collected: 02/06/25 11:40

Matrix: Water

Date Received: 02/08/25 08:00

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	0.0719	U	0.157	0.157	1.00	0.285	pCi/L	02/13/25 07:57	03/07/25 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		30 - 110					02/13/25 07:57	03/07/25 09:50	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	0.334	U	0.422	0.423	1.00	0.701	pCi/L	02/13/25 08:01	03/06/25 12:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		30 - 110					02/13/25 08:01	03/06/25 12:31	1
Y Carrier	77.4		30 - 110					02/13/25 08:01	03/06/25 12:31	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	0.406	U	0.450	0.451	5.00	0.701	pCi/L		03/10/25 11:34	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-03 MWT-3

Lab Sample ID: 240-218718-28

Date Collected: 02/06/25 09:42

Matrix: Water

Date Received: 02/08/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	5.6		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 22:44	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 18:54	1
Arsenic	0.0023	J	0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 18:54	1
Barium	0.017		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 18:54	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 18:54	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 18:54	1
Cobalt	0.00048	J	0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 18:54	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 18:54	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 18:54	1
Molybdenum	0.15		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 18:54	1
Nickel	0.0023		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 18:54	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 18:54	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 18:54	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 18:54	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 18:54	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 18:54	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 18:54	1
Calcium	230		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 18:54	1
Magnesium	46		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 18:54	1
Lithium	0.073		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 18:54	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.6		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:43	1
Zinc	0.0019	J	0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:43	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	760		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/11/25 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	180	B	5.0	2.6	mg/L			02/12/25 16:39	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 16:39	1
Total Dissolved Solids (SM 2540 C-2020)	1300		20	16	mg/L			02/13/25 11:23	1
Total Suspended Solids (SM 2540D-2020)	4.0	J	8.0	0.80	mg/L			02/12/25 11:19	1
Chloride (EPA 300.0-1993 R2.1)	95		1.0	0.13	mg/L			02/18/25 17:21	1
Fluoride (EPA 300.0-1993 R2.1)	0.18		0.050	0.024	mg/L			02/18/25 17:21	1
Sulfate (EPA 300.0-1993 R2.1)	670		5.0	1.7	mg/L			02/18/25 18:26	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-03 MWT-3

Lab Sample ID: 240-218718-28

Date Collected: 02/06/25 09:42

Matrix: Water

Date Received: 02/08/25 08:00

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	0.0173	U	0.114	0.114	1.00	0.226	pCi/L	02/13/25 07:57	03/07/25 14:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/13/25 07:57	03/07/25 14:52	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	0.340	U	0.367	0.368	1.00	0.598	pCi/L	02/13/25 08:01	03/06/25 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/13/25 08:01	03/06/25 12:11	1
Y Carrier	79.6		30 - 110					02/13/25 08:01	03/06/25 12:11	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	0.357	U	0.384	0.385	5.00	0.598	pCi/L		03/10/25 11:34	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-04 MW-16A

Lab Sample ID: 240-218718-29

Date Collected: 02/06/25 11:38

Matrix: Water

Date Received: 02/08/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.21		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 22:49	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 18:57	1
Arsenic	0.0018	J	0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 18:57	1
Barium	0.16		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 18:57	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 18:57	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 18:57	1
Cobalt	0.0012		0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 18:57	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 18:57	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 18:57	1
Molybdenum	0.0017	J	0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 18:57	1
Nickel	0.0015	J	0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 18:57	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 18:57	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 18:57	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 18:57	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 18:57	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 18:57	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 18:57	1
Calcium	200		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 18:57	1
Magnesium	52		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 18:57	1
Lithium	0.0035	J	0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 18:57	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.2		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:46	1
Zinc	ND		0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:46	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	720		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/11/25 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	420	B	5.0	2.6	mg/L			02/12/25 16:44	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 16:44	1
Total Dissolved Solids (SM 2540 C-2020)	1500		20	16	mg/L			02/13/25 11:23	1
Total Suspended Solids (SM 2540D-2020)	6.8		4.0	0.40	mg/L			02/12/25 11:19	1
Chloride (EPA 300.0-1993 R2.1)	480		10	1.3	mg/L			02/18/25 19:10	10
Fluoride (EPA 300.0-1993 R2.1)	0.098		0.050	0.024	mg/L			02/18/25 18:48	1
Sulfate (EPA 300.0-1993 R2.1)	240		10	3.5	mg/L			02/18/25 19:10	10

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-04 MW-16A

Lab Sample ID: 240-218718-29

Date Collected: 02/06/25 11:38

Matrix: Water

Date Received: 02/08/25 08:00

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	0.285		0.200	0.201	1.00	0.283	pCi/L	02/13/25 07:57	03/07/25 14:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					02/13/25 07:57	03/07/25 14:53	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	0.425	U	0.342	0.344	1.00	0.527	pCi/L	02/13/25 08:01	03/06/25 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					02/13/25 08:01	03/06/25 12:12	1
Y Carrier	83.4		30 - 110					02/13/25 08:01	03/06/25 12:12	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	0.709		0.396	0.398	5.00	0.527	pCi/L		03/10/25 11:34	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-05 MW-16B

Lab Sample ID: 240-218718-30

Date Collected: 02/06/25 13:13

Matrix: Water

Date Received: 02/08/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.11		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 22:53	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 19:06	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 19:06	1
Barium	0.086		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 19:06	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 19:06	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 19:06	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 19:06	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 19:06	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 19:06	1
Molybdenum	0.0062		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 19:06	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 19:06	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 19:06	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 19:06	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 19:06	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 19:06	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 19:06	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 19:06	1
Calcium	82		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 19:06	1
Magnesium	35		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 19:06	1
Lithium	0.021		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 19:06	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.40		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:48	1
Zinc	ND		0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:48	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	350		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/11/25 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	340	B	5.0	2.6	mg/L			02/12/25 16:51	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 16:51	1
Total Dissolved Solids (SM 2540 C-2020)	350		10	7.8	mg/L			02/13/25 11:23	1
Total Suspended Solids (SM 2540D-2020)	1.4	J	8.0	0.80	mg/L			02/12/25 11:19	1
Chloride (EPA 300.0-1993 R2.1)	2.8		1.0	0.13	mg/L			02/18/25 19:31	1
Fluoride (EPA 300.0-1993 R2.1)	1.0		0.050	0.024	mg/L			02/18/25 19:31	1
Sulfate (EPA 300.0-1993 R2.1)	21		1.0	0.35	mg/L			02/18/25 19:31	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-05 MW-16B

Lab Sample ID: 240-218718-30

Date Collected: 02/06/25 13:13

Matrix: Water

Date Received: 02/08/25 08:00

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	0.458		0.209	0.213	1.00	0.236	pCi/L	02/13/25 07:57	03/07/25 14:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					02/13/25 07:57	03/07/25 14:53	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	0.650		0.415	0.419	1.00	0.616	pCi/L	02/13/25 08:01	03/06/25 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					02/13/25 08:01	03/06/25 12:12	1
Y Carrier	79.3		30 - 110					02/13/25 08:01	03/06/25 12:12	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		0.465	0.470	5.00	0.616	pCi/L		03/10/25 11:34	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-06 MW-16C

Lab Sample ID: 240-218718-31

Date Collected: 02/06/25 14:45

Matrix: Water

Date Received: 02/08/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.39		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 22:57	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 19:09	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 19:09	1
Barium	0.027		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 19:09	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 19:09	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 19:09	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 19:09	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 19:09	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 19:09	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 19:09	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 19:09	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 19:09	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 19:09	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 19:09	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 19:09	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 19:09	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 19:09	1
Calcium	75		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 19:09	1
Magnesium	31		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 19:09	1
Lithium	0.028		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 19:09	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.36		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:51	1
Zinc	ND		0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:51	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	320		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/11/25 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	320	B	5.0	2.6	mg/L			02/12/25 16:59	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 16:59	1
Total Dissolved Solids (SM 2540 C-2020)	320		10	7.8	mg/L			02/13/25 11:23	1
Total Suspended Solids (SM 2540D-2020)	0.90	J	4.0	0.40	mg/L			02/12/25 11:19	1
Chloride (EPA 300.0-1993 R2.1)	1.1		1.0	0.13	mg/L			02/18/25 19:53	1
Fluoride (EPA 300.0-1993 R2.1)	0.51		0.050	0.024	mg/L			02/18/25 19:53	1
Sulfate (EPA 300.0-1993 R2.1)	11		1.0	0.35	mg/L			02/18/25 19:53	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-06 MW-16C

Lab Sample ID: 240-218718-31

Date Collected: 02/06/25 14:45

Matrix: Water

Date Received: 02/08/25 08:00

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	0.365		0.220	0.223	1.00	0.292	pCi/L	02/13/25 07:57	03/07/25 14:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.9		30 - 110					02/13/25 07:57	03/07/25 14:53	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	0.0300	U	0.466	0.466	1.00	0.849	pCi/L	02/13/25 08:01	03/06/25 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.9		30 - 110					02/13/25 08:01	03/06/25 12:13	1
Y Carrier	76.3		30 - 110					02/13/25 08:01	03/06/25 12:13	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	0.395	U	0.515	0.517	5.00	0.849	pCi/L		03/10/25 11:34	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-07 MW-16D

Lab Sample ID: 240-218718-32

Date Collected: 02/06/25 13:41

Matrix: Water

Date Received: 02/08/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.3		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 23:01	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 19:11	1
Arsenic	0.0023	J	0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 19:11	1
Barium	0.033		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 19:11	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 19:11	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 19:11	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 19:11	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 19:11	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 19:11	1
Molybdenum	0.0096		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 19:11	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 19:11	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 19:11	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 19:11	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 19:11	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 19:11	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 19:11	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 19:11	1
Calcium	29		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 19:11	1
Magnesium	7.5		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 19:11	1
Lithium	0.030		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 19:11	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.40		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:54	1
Zinc	0.0014	J	0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:54	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	100		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/11/25 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	320	B	5.0	2.6	mg/L			02/12/25 17:04	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 17:04	1
Total Dissolved Solids (SM 2540 C-2020)	370		10	7.8	mg/L			02/13/25 11:23	1
Total Suspended Solids (SM 2540D-2020)	1.8	J	4.0	0.40	mg/L			02/12/25 11:19	1
Chloride (EPA 300.0-1993 R2.1)	6.5		1.0	0.13	mg/L			02/18/25 20:15	1
Fluoride (EPA 300.0-1993 R2.1)	0.76		0.050	0.024	mg/L			02/18/25 20:15	1
Sulfate (EPA 300.0-1993 R2.1)	5.9		1.0	0.35	mg/L			02/18/25 20:15	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-07 MW-16D

Lab Sample ID: 240-218718-32

Date Collected: 02/06/25 13:41

Matrix: Water

Date Received: 02/08/25 08:00

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	0.0390	U	0.174	0.174	1.00	0.324	pCi/L	02/13/25 07:57	03/07/25 14:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					02/13/25 07:57	03/07/25 14:53	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	0.441	U	0.389	0.391	1.00	0.615	pCi/L	02/13/25 08:01	03/06/25 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					02/13/25 08:01	03/06/25 12:13	1
Y Carrier	79.6		30 - 110					02/13/25 08:01	03/06/25 12:13	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	0.480	U	0.426	0.428	5.00	0.615	pCi/L		03/10/25 11:34	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-08 FLD BLK

Lab Sample ID: 240-218718-33

Date Collected: 02/06/25 10:10

Matrix: Water

Date Received: 02/08/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 23:06	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 19:14	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 19:14	1
Barium	ND		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 19:14	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 19:14	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 19:14	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 19:14	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 19:14	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 19:14	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 19:14	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 19:14	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 19:14	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 19:14	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 19:14	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 19:14	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 19:14	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 19:14	1
Calcium	ND		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 19:14	1
Magnesium	ND		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 19:14	1
Lithium	ND		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 19:14	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 15:56	1
Zinc	0.0011	J	0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 15:56	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			02/18/25 15:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/11/25 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 17:11	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			02/12/25 17:11	1
Total Dissolved Solids (SM 2540 C-2020)	ND		10	7.8	mg/L			02/13/25 11:23	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			02/12/25 11:19	1
Chloride (EPA 300.0-1993 R2.1)	ND		1.0	0.13	mg/L			02/18/25 20:37	1
Fluoride (EPA 300.0-1993 R2.1)	ND		0.050	0.024	mg/L			02/18/25 20:37	1
Sulfate (EPA 300.0-1993 R2.1)	ND		1.0	0.35	mg/L			02/18/25 20:37	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-08 FLD BLK

Lab Sample ID: 240-218718-33

Date Collected: 02/06/25 10:10

Matrix: Water

Date Received: 02/08/25 08:00

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	-0.0514	U	0.131	0.131	1.00	0.288	pCi/L	02/13/25 07:57	03/07/25 14:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		30 - 110					02/13/25 07:57	03/07/25 14:47	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	-0.191	U	0.306	0.307	1.00	0.630	pCi/L	02/13/25 08:01	03/06/25 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		30 - 110					02/13/25 08:01	03/06/25 12:13	1
Y Carrier	81.1		30 - 110					02/13/25 08:01	03/06/25 12:13	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	0.000	U	0.333	0.334	5.00	0.630	pCi/L		03/10/25 11:34	1

Tracer/Carrier Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

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)					
240-218718-26	L502169-01 MW-3	85.1					
240-218718-27	L502169-02 MW-13	80.8					
240-218718-28	L502169-03 MWT-3	92.5					
240-218718-29	L502169-04 MW-16A	88.8					
240-218718-30	L502169-05 MW-16B	87.1					
240-218718-31	L502169-06 MW-16C	73.9					
240-218718-32	L502169-07 MW-16D	88.1					
240-218718-33	L502169-08 FLD BLK	81.8					
LCS 160-702736/2-A	Lab Control Sample	86.3					
MB 160-702736/1-A	Method Blank	85.3					
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)				
240-218718-26	L502169-01 MW-3	85.1	77.0				
240-218718-27	L502169-02 MW-13	80.8	77.4				
240-218718-28	L502169-03 MWT-3	92.5	79.6				
240-218718-29	L502169-04 MW-16A	88.8	83.4				
240-218718-30	L502169-05 MW-16B	87.1	79.3				
240-218718-31	L502169-06 MW-16C	73.9	76.3				
240-218718-32	L502169-07 MW-16D	88.1	79.6				
240-218718-33	L502169-08 FLD BLK	81.8	81.1				
LCS 160-702740/2-A	Lab Control Sample	86.3	78.9				
MB 160-702740/1-A	Method Blank	85.3	75.9				
Tracer/Carrier Legend							
Ba = Ba Carrier							
Y = Y Carrier							

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Method: 200.7 R4.4-1994 - Metals (ICP)

Lab Sample ID: MB 240-644186/1-A
Matrix: Water
Analysis Batch: 644428

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 644186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		02/10/25 14:00	02/11/25 21:58	1

Lab Sample ID: LCS 240-644186/2-A
Matrix: Water
Analysis Batch: 644428

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 644186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 350-5006/25-A
Matrix: Water
Analysis Batch: 5032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		02/13/25 16:37	02/14/25 14:46	1
Zinc	ND		0.0070	0.00093	mg/L		02/13/25 16:37	02/14/25 14:46	1

Lab Sample ID: LCS 350-5006/26-A
Matrix: Water
Analysis Batch: 5032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	19.9		mg/L		99	85 - 115
Zinc	1.00	0.975		mg/L		97	85 - 115

Lab Sample ID: 240-218718-26 MS
Matrix: Water
Analysis Batch: 5032

Client Sample ID: L502169-01 MW-3
Prep Type: Total/NA
Prep Batch: 5006

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.6		20.0	22.0		mg/L		102	70 - 130
Zinc	ND		1.00	0.968		mg/L		97	70 - 130

Lab Sample ID: 240-218718-26 MSD
Matrix: Water
Analysis Batch: 5032

Client Sample ID: L502169-01 MW-3
Prep Type: Total/NA
Prep Batch: 5006

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	1.6		20.0	22.4		mg/L		104	70 - 130	2	20
Zinc	ND		1.00	0.950		mg/L		95	70 - 130	2	20

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS)

Lab Sample ID: MB 240-644186/1-A

Matrix: Water

Analysis Batch: 644422

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 644186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		02/10/25 14:00	02/11/25 12:27	1
Arsenic	ND		0.0050	0.00075	mg/L		02/10/25 14:00	02/11/25 12:27	1
Barium	ND		0.0050	0.00077	mg/L		02/10/25 14:00	02/11/25 12:27	1
Beryllium	ND		0.0010	0.00027	mg/L		02/10/25 14:00	02/11/25 12:27	1
Cadmium	ND		0.0010	0.000077	mg/L		02/10/25 14:00	02/11/25 12:27	1
Cobalt	ND		0.0010	0.000086	mg/L		02/10/25 14:00	02/11/25 12:27	1
Chromium	ND		0.0050	0.0012	mg/L		02/10/25 14:00	02/11/25 12:27	1
Copper	ND		0.0020	0.0017	mg/L		02/10/25 14:00	02/11/25 12:27	1
Molybdenum	ND		0.0050	0.0011	mg/L		02/10/25 14:00	02/11/25 12:27	1
Nickel	ND		0.0020	0.0015	mg/L		02/10/25 14:00	02/11/25 12:27	1
Lead	ND		0.0010	0.00045	mg/L		02/10/25 14:00	02/11/25 12:27	1
Antimony	ND		0.0020	0.00057	mg/L		02/10/25 14:00	02/11/25 12:27	1
Selenium	ND		0.0050	0.00089	mg/L		02/10/25 14:00	02/11/25 12:27	1
Thallium	ND		0.0010	0.00051	mg/L		02/10/25 14:00	02/11/25 12:27	1
Vanadium	ND		0.0050	0.00082	mg/L		02/10/25 14:00	02/11/25 12:27	1
Zinc	ND		0.020	0.015	mg/L		02/10/25 14:00	02/11/25 12:27	1
Calcium	ND		1.0	0.25	mg/L		02/10/25 14:00	02/11/25 12:27	1
Magnesium	ND		1.0	0.061	mg/L		02/10/25 14:00	02/11/25 12:27	1
Lithium	ND		0.0080	0.0034	mg/L		02/10/25 14:00	02/11/25 12:27	1

Lab Sample ID: LCS 240-644186/3-A

Matrix: Water

Analysis Batch: 644422

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 644186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.100	0.0926		mg/L		93	85 - 115
Arsenic	1.00	0.948		mg/L		95	85 - 115
Barium	1.00	0.922		mg/L		92	85 - 115
Beryllium	0.500	0.438		mg/L		88	85 - 115
Cadmium	0.500	0.455		mg/L		91	85 - 115
Cobalt	0.500	0.480		mg/L		96	85 - 115
Chromium	0.500	0.476		mg/L		95	85 - 115
Copper	0.500	0.475		mg/L		95	85 - 115
Molybdenum	0.500	0.474		mg/L		95	85 - 115
Nickel	0.500	0.478		mg/L		96	85 - 115
Lead	0.500	0.490		mg/L		98	85 - 115
Antimony	0.100	0.0951		mg/L		95	85 - 115
Selenium	1.00	0.932		mg/L		93	85 - 115
Thallium	1.00	1.03		mg/L		103	85 - 115
Vanadium	0.500	0.478		mg/L		96	85 - 115
Zinc	0.500	0.491		mg/L		98	85 - 115
Calcium	25.0	23.4		mg/L		94	85 - 115
Magnesium	25.0	23.8		mg/L		95	85 - 115
Lithium	0.500	0.484		mg/L		97	85 - 115

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Method: 245.1-1994 R3.0 - Mercury (CVAA)

Lab Sample ID: MB 240-644192/1-A
Matrix: Water
Analysis Batch: 644433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		02/10/25 14:00	02/11/25 11:17	1

Lab Sample ID: LCS 240-644192/2-A
Matrix: Water
Analysis Batch: 644433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00482		mg/L		96	85 - 115

Method: 2320 B-2021 - Alkalinity

Lab Sample ID: MB 240-644780/5
Matrix: Water
Analysis Batch: 644780

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	3.90	J	5.0	2.6	mg/L			02/12/25 16:12	1
Carbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			02/12/25 16:12	1

Method: 2540 C-2020 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-644719/1
Matrix: Water
Analysis Batch: 644719

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	7.8	mg/L			02/13/25 11:23	1

Lab Sample ID: LCS 240-644719/2
Matrix: Water
Analysis Batch: 644719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	569	542		mg/L		95	80 - 120

Method: 2540D-2020 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-644534/1
Matrix: Water
Analysis Batch: 644534

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	0.40	mg/L			02/12/25 10:29	1

Lab Sample ID: LCS 240-644534/2
Matrix: Water
Analysis Batch: 644534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	26.1	24.0	J	mg/L		92	64 - 120

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Method: 2540D-2020 - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: MB 240-644566/1

Matrix: Water

Analysis Batch: 644566

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	0.40	mg/L			02/12/25 11:19	1

Lab Sample ID: LCS 240-644566/2

Matrix: Water

Analysis Batch: 644566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	26.1	26.0	J	mg/L		100	64 - 120

Lab Sample ID: 240-218718-28 DU

Matrix: Water

Analysis Batch: 644566

Client Sample ID: L502169-03 MWT-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	4.0	J	4.60	J F5	mg/L		14	10

Lab Sample ID: 240-218718-30 DU

Matrix: Water

Analysis Batch: 644566

Client Sample ID: L502169-05 MW-16B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	1.4	J	0.800	J F5	mg/L		55	10

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 240-645270/3

Matrix: Water

Analysis Batch: 645270

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.13	mg/L			02/18/25 14:06	1
Fluoride	ND		0.050	0.024	mg/L			02/18/25 14:06	1
Sulfate	ND		1.0	0.35	mg/L			02/18/25 14:06	1

Lab Sample ID: LCS 240-645270/4

Matrix: Water

Analysis Batch: 645270

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.7		mg/L		97	90 - 110
Fluoride	2.50	2.64		mg/L		106	90 - 110
Sulfate	50.0	50.4		mg/L		101	90 - 110

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-702736/1-A

Matrix: Water

Analysis Batch: 706560

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 702736

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05537	U	0.139	0.139	1.00	0.257	pCi/L	02/13/25 07:57	03/07/25 09:55	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					02/13/25 07:57	03/07/25 09:55	1

Lab Sample ID: LCS 160-702736/2-A

Matrix: Water

Analysis Batch: 706560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 702736

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	8.205		1.10	1.00	0.308	pCi/L	86	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	86.3		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-702740/1-A

Matrix: Water

Analysis Batch: 706383

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 702740

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1634	U	0.329	0.329	1.00	0.660	pCi/L	02/13/25 08:01	03/06/25 12:10	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					02/13/25 08:01	03/06/25 12:10	1
Y Carrier	75.9		30 - 110					02/13/25 08:01	03/06/25 12:10	1

Lab Sample ID: LCS 160-702740/2-A

Matrix: Water

Analysis Batch: 706383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 702740

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		8.04	8.591		1.25	1.00	0.547	pCi/L	107	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	86.3		30 - 110							
Y Carrier	78.9		30 - 110							

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Metals

Prep Batch: 5006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total/NA	Water	200.8	
240-218718-27	L502169-02 MW-13	Total/NA	Water	200.8	
240-218718-28	L502169-03 MWT-3	Total/NA	Water	200.8	
240-218718-29	L502169-04 MW-16A	Total/NA	Water	200.8	
240-218718-30	L502169-05 MW-16B	Total/NA	Water	200.8	
240-218718-31	L502169-06 MW-16C	Total/NA	Water	200.8	
240-218718-32	L502169-07 MW-16D	Total/NA	Water	200.8	
240-218718-33	L502169-08 FLD BLK	Total/NA	Water	200.8	
MB 350-5006/25-A	Method Blank	Total/NA	Water	200.8	
LCS 350-5006/26-A	Lab Control Sample	Total/NA	Water	200.8	
240-218718-26 MS	L502169-01 MW-3	Total/NA	Water	200.8	
240-218718-26 MSD	L502169-01 MW-3	Total/NA	Water	200.8	

Analysis Batch: 5032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total/NA	Water	200.8	5006
240-218718-26	L502169-01 MW-3	Total/NA	Water	200.8	5006
240-218718-27	L502169-02 MW-13	Total/NA	Water	200.8	5006
240-218718-28	L502169-03 MWT-3	Total/NA	Water	200.8	5006
240-218718-29	L502169-04 MW-16A	Total/NA	Water	200.8	5006
240-218718-30	L502169-05 MW-16B	Total/NA	Water	200.8	5006
240-218718-31	L502169-06 MW-16C	Total/NA	Water	200.8	5006
240-218718-32	L502169-07 MW-16D	Total/NA	Water	200.8	5006
240-218718-33	L502169-08 FLD BLK	Total/NA	Water	200.8	5006
MB 350-5006/25-A	Method Blank	Total/NA	Water	200.8	5006
LCS 350-5006/26-A	Lab Control Sample	Total/NA	Water	200.8	5006
240-218718-26 MS	L502169-01 MW-3	Total/NA	Water	200.8	5006
240-218718-26 MSD	L502169-01 MW-3	Total/NA	Water	200.8	5006

Prep Batch: 644186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total Recoverable	Water	200.7	
240-218718-27	L502169-02 MW-13	Total Recoverable	Water	200.7	
240-218718-28	L502169-03 MWT-3	Total Recoverable	Water	200.7	
240-218718-29	L502169-04 MW-16A	Total Recoverable	Water	200.7	
240-218718-30	L502169-05 MW-16B	Total Recoverable	Water	200.7	
240-218718-31	L502169-06 MW-16C	Total Recoverable	Water	200.7	
240-218718-32	L502169-07 MW-16D	Total Recoverable	Water	200.8-1994 R5.4	
240-218718-33	L502169-08 FLD BLK	Total Recoverable	Water	200.8-1994 R5.4	
MB 240-644186/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 240-644186/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 240-644186/3-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 644192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total/NA	Water	245.1-1994 R3.0	
240-218718-27	L502169-02 MW-13	Total/NA	Water	245.1-1994 R3.0	
240-218718-28	L502169-03 MWT-3	Total/NA	Water	245.1-1994 R3.0	
240-218718-29	L502169-04 MW-16A	Total/NA	Water	245.1-1994 R3.0	
240-218718-30	L502169-05 MW-16B	Total/NA	Water	245.1-1994 R3.0	
240-218718-31	L502169-06 MW-16C	Total/NA	Water	245.1-1994 R3.0	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Metals (Continued)

Prep Batch: 644192 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-32	L502169-07 MW-16D	Total/NA	Water	245.1-1994 R3.0	
240-218718-33	L502169-08 FLD BLK	Total/NA	Water	245.1-1994 R3.0	
MB 240-644192/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	
LCS 240-644192/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	

Analysis Batch: 644422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total Recoverable	Water	200.8-1994 R5.4	644186
240-218718-27	L502169-02 MW-13	Total Recoverable	Water	200.8-1994 R5.4	644186
240-218718-28	L502169-03 MWT-3	Total Recoverable	Water	200.8-1994 R5.4	644186
240-218718-29	L502169-04 MW-16A	Total Recoverable	Water	200.8-1994 R5.4	644186
240-218718-30	L502169-05 MW-16B	Total Recoverable	Water	200.8-1994 R5.4	644186
240-218718-31	L502169-06 MW-16C	Total Recoverable	Water	200.8-1994 R5.4	644186
240-218718-32	L502169-07 MW-16D	Total Recoverable	Water	200.8-1994 R5.4	644186
240-218718-33	L502169-08 FLD BLK	Total Recoverable	Water	200.8-1994 R5.4	644186
MB 240-644186/1-A	Method Blank	Total Recoverable	Water	200.8-1994 R5.4	644186
LCS 240-644186/3-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	644186

Analysis Batch: 644428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total Recoverable	Water	200.7 R4.4-1994	644186
240-218718-27	L502169-02 MW-13	Total Recoverable	Water	200.7 R4.4-1994	644186
240-218718-28	L502169-03 MWT-3	Total Recoverable	Water	200.7 R4.4-1994	644186
240-218718-29	L502169-04 MW-16A	Total Recoverable	Water	200.7 R4.4-1994	644186
240-218718-30	L502169-05 MW-16B	Total Recoverable	Water	200.7 R4.4-1994	644186
240-218718-31	L502169-06 MW-16C	Total Recoverable	Water	200.7 R4.4-1994	644186
240-218718-32	L502169-07 MW-16D	Total Recoverable	Water	200.7 R4.4-1994	644186
240-218718-33	L502169-08 FLD BLK	Total Recoverable	Water	200.7 R4.4-1994	644186
MB 240-644186/1-A	Method Blank	Total Recoverable	Water	200.7 R4.4-1994	644186
LCS 240-644186/2-A	Lab Control Sample	Total Recoverable	Water	200.7 R4.4-1994	644186

Analysis Batch: 644433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total/NA	Water	245.1-1994 R3.0	644192
240-218718-27	L502169-02 MW-13	Total/NA	Water	245.1-1994 R3.0	644192
240-218718-28	L502169-03 MWT-3	Total/NA	Water	245.1-1994 R3.0	644192
240-218718-29	L502169-04 MW-16A	Total/NA	Water	245.1-1994 R3.0	644192
240-218718-30	L502169-05 MW-16B	Total/NA	Water	245.1-1994 R3.0	644192
240-218718-31	L502169-06 MW-16C	Total/NA	Water	245.1-1994 R3.0	644192
240-218718-32	L502169-07 MW-16D	Total/NA	Water	245.1-1994 R3.0	644192
240-218718-33	L502169-08 FLD BLK	Total/NA	Water	245.1-1994 R3.0	644192
MB 240-644192/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	644192
LCS 240-644192/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	644192

Analysis Batch: 645307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total Recoverable	Water	2340 B-2021	
240-218718-27	L502169-02 MW-13	Total Recoverable	Water	2340 B-2021	
240-218718-28	L502169-03 MWT-3	Total Recoverable	Water	2340 B-2021	
240-218718-29	L502169-04 MW-16A	Total Recoverable	Water	2340 B-2021	
240-218718-30	L502169-05 MW-16B	Total Recoverable	Water	2340 B-2021	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Metals (Continued)

Analysis Batch: 645307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-31	L502169-06 MW-16C	Total Recoverable	Water	2340 B-2021	
240-218718-32	L502169-07 MW-16D	Total Recoverable	Water	2340 B-2021	
240-218718-33	L502169-08 FLD BLK	Total Recoverable	Water	2340 B-2021	

General Chemistry

Analysis Batch: 644534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total/NA	Water	2540D-2020	
240-218718-27	L502169-02 MW-13	Total/NA	Water	2540D-2020	
MB 240-644534/1	Method Blank	Total/NA	Water	2540D-2020	
LCS 240-644534/2	Lab Control Sample	Total/NA	Water	2540D-2020	

Analysis Batch: 644566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-28	L502169-03 MWT-3	Total/NA	Water	2540D-2020	
240-218718-29	L502169-04 MW-16A	Total/NA	Water	2540D-2020	
240-218718-30	L502169-05 MW-16B	Total/NA	Water	2540D-2020	
240-218718-31	L502169-06 MW-16C	Total/NA	Water	2540D-2020	
240-218718-32	L502169-07 MW-16D	Total/NA	Water	2540D-2020	
240-218718-33	L502169-08 FLD BLK	Total/NA	Water	2540D-2020	
MB 240-644566/1	Method Blank	Total/NA	Water	2540D-2020	
LCS 240-644566/2	Lab Control Sample	Total/NA	Water	2540D-2020	
240-218718-28 DU	L502169-03 MWT-3	Total/NA	Water	2540D-2020	
240-218718-30 DU	L502169-05 MW-16B	Total/NA	Water	2540D-2020	

Analysis Batch: 644719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total/NA	Water	2540 C-2020	
240-218718-27	L502169-02 MW-13	Total/NA	Water	2540 C-2020	
240-218718-28	L502169-03 MWT-3	Total/NA	Water	2540 C-2020	
240-218718-29	L502169-04 MW-16A	Total/NA	Water	2540 C-2020	
240-218718-30	L502169-05 MW-16B	Total/NA	Water	2540 C-2020	
240-218718-31	L502169-06 MW-16C	Total/NA	Water	2540 C-2020	
240-218718-32	L502169-07 MW-16D	Total/NA	Water	2540 C-2020	
240-218718-33	L502169-08 FLD BLK	Total/NA	Water	2540 C-2020	
MB 240-644719/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-644719/2	Lab Control Sample	Total/NA	Water	2540 C-2020	

Analysis Batch: 644780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total/NA	Water	2320 B-2021	
240-218718-27	L502169-02 MW-13	Total/NA	Water	2320 B-2021	
240-218718-28	L502169-03 MWT-3	Total/NA	Water	2320 B-2021	
240-218718-29	L502169-04 MW-16A	Total/NA	Water	2320 B-2021	
240-218718-30	L502169-05 MW-16B	Total/NA	Water	2320 B-2021	
240-218718-31	L502169-06 MW-16C	Total/NA	Water	2320 B-2021	
240-218718-32	L502169-07 MW-16D	Total/NA	Water	2320 B-2021	
240-218718-33	L502169-08 FLD BLK	Total/NA	Water	2320 B-2021	
MB 240-644780/5	Method Blank	Total/NA	Water	2320 B-2021	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

General Chemistry

Analysis Batch: 645270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total/NA	Water	300.0-1993 R2.1	
240-218718-26	L502169-01 MW-3	Total/NA	Water	300.0-1993 R2.1	
240-218718-27	L502169-02 MW-13	Total/NA	Water	300.0-1993 R2.1	
240-218718-28	L502169-03 MWT-3	Total/NA	Water	300.0-1993 R2.1	
240-218718-28	L502169-03 MWT-3	Total/NA	Water	300.0-1993 R2.1	
240-218718-29	L502169-04 MW-16A	Total/NA	Water	300.0-1993 R2.1	
240-218718-29	L502169-04 MW-16A	Total/NA	Water	300.0-1993 R2.1	
240-218718-30	L502169-05 MW-16B	Total/NA	Water	300.0-1993 R2.1	
240-218718-31	L502169-06 MW-16C	Total/NA	Water	300.0-1993 R2.1	
240-218718-32	L502169-07 MW-16D	Total/NA	Water	300.0-1993 R2.1	
240-218718-33	L502169-08 FLD BLK	Total/NA	Water	300.0-1993 R2.1	
MB 240-645270/3	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 240-645270/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	

Rad

Prep Batch: 702736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total/NA	Water	PrecSep-21	
240-218718-27	L502169-02 MW-13	Total/NA	Water	PrecSep-21	
240-218718-28	L502169-03 MWT-3	Total/NA	Water	PrecSep-21	
240-218718-29	L502169-04 MW-16A	Total/NA	Water	PrecSep-21	
240-218718-30	L502169-05 MW-16B	Total/NA	Water	PrecSep-21	
240-218718-31	L502169-06 MW-16C	Total/NA	Water	PrecSep-21	
240-218718-32	L502169-07 MW-16D	Total/NA	Water	PrecSep-21	
240-218718-33	L502169-08 FLD BLK	Total/NA	Water	PrecSep-21	
MB 160-702736/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-702736/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 702740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218718-26	L502169-01 MW-3	Total/NA	Water	PrecSep_0	
240-218718-27	L502169-02 MW-13	Total/NA	Water	PrecSep_0	
240-218718-28	L502169-03 MWT-3	Total/NA	Water	PrecSep_0	
240-218718-29	L502169-04 MW-16A	Total/NA	Water	PrecSep_0	
240-218718-30	L502169-05 MW-16B	Total/NA	Water	PrecSep_0	
240-218718-31	L502169-06 MW-16C	Total/NA	Water	PrecSep_0	
240-218718-32	L502169-07 MW-16D	Total/NA	Water	PrecSep_0	
240-218718-33	L502169-08 FLD BLK	Total/NA	Water	PrecSep_0	
MB 160-702740/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-702740/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-01 MW-3

Lab Sample ID: 240-218718-26

Date Collected: 02/06/25 09:42

Matrix: Water

Date Received: 02/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/11/25 22:27
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:07
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		5	5032	CW	EET SSM	02/14/25 15:10
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 18:49
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644192	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644433	TQ6W	EET CLE	02/11/25 11:36
Total/NA	Analysis	2320 B-2021		1	644780	PQD2	EET CLE	02/12/25 16:29
Total/NA	Analysis	2540 C-2020		1	644719	PQD2	EET CLE	02/13/25 11:23
Total/NA	Analysis	2540D-2020		1	644534	TAV2	EET CLE	02/12/25 10:29
Total/NA	Analysis	300.0-1993 R2.1		1	645270	JMR	EET CLE	02/18/25 15:54
Total/NA	Analysis	300.0-1993 R2.1		5	645270	JMR	EET CLE	02/18/25 16:16
Total/NA	Prep	PrecSep-21			702736	OGC	EET SL	02/13/25 07:57
Total/NA	Analysis	903.0		1	706561	SWS	EET SL	03/07/25 09:50
Total/NA	Prep	PrecSep_0			702740	OGC	EET SL	02/13/25 08:01
Total/NA	Analysis	904.0		1	706428	SWS	EET SL	03/06/25 12:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	706940	SCB	EET SL	03/10/25 11:34

Client Sample ID: L502169-02 MW-13

Lab Sample ID: 240-218718-27

Date Collected: 02/06/25 11:40

Matrix: Water

Date Received: 02/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/11/25 22:40
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:41
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 18:52
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644192	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644433	TQ6W	EET CLE	02/11/25 11:38
Total/NA	Analysis	2320 B-2021		1	644780	PQD2	EET CLE	02/12/25 16:34
Total/NA	Analysis	2540 C-2020		1	644719	PQD2	EET CLE	02/13/25 11:23
Total/NA	Analysis	2540D-2020		1	644534	TAV2	EET CLE	02/12/25 10:29
Total/NA	Analysis	300.0-1993 R2.1		1	645270	JMR	EET CLE	02/18/25 16:38
Total/NA	Prep	PrecSep-21			702736	OGC	EET SL	02/13/25 07:57
Total/NA	Analysis	903.0		1	706561	SWS	EET SL	03/07/25 09:50

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-02 MW-13

Lab Sample ID: 240-218718-27

Date Collected: 02/06/25 11:40

Matrix: Water

Date Received: 02/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep_0			702740	OGC	EET SL	02/13/25 08:01
Total/NA	Analysis	904.0		1	706428	SWS	EET SL	03/06/25 12:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	706940	SCB	EET SL	03/10/25 11:34

Client Sample ID: L502169-03 MWT-3

Lab Sample ID: 240-218718-28

Date Collected: 02/06/25 09:42

Matrix: Water

Date Received: 02/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/11/25 22:44
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:43
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 18:54
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644192	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644433	TQ6W	EET CLE	02/11/25 11:39
Total/NA	Analysis	2320 B-2021		1	644780	PQD2	EET CLE	02/12/25 16:39
Total/NA	Analysis	2540 C-2020		1	644719	PQD2	EET CLE	02/13/25 11:23
Total/NA	Analysis	2540D-2020		1	644566	TAV2	EET CLE	02/12/25 11:19
Total/NA	Analysis	300.0-1993 R2.1		1	645270	JMR	EET CLE	02/18/25 17:21
Total/NA	Analysis	300.0-1993 R2.1		5	645270	JMR	EET CLE	02/18/25 18:26
Total/NA	Prep	PrecSep-21			702736	OGC	EET SL	02/13/25 07:57
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 14:52
Total/NA	Prep	PrecSep_0			702740	OGC	EET SL	02/13/25 08:01
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 12:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	706940	SCB	EET SL	03/10/25 11:34

Client Sample ID: L502169-04 MW-16A

Lab Sample ID: 240-218718-29

Date Collected: 02/06/25 11:38

Matrix: Water

Date Received: 02/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/11/25 22:49
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:46
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 18:57
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644192	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644433	TQ6W	EET CLE	02/11/25 11:41
Total/NA	Analysis	2320 B-2021		1	644780	PQD2	EET CLE	02/12/25 16:44

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-04 MW-16A

Lab Sample ID: 240-218718-29

Date Collected: 02/06/25 11:38

Matrix: Water

Date Received: 02/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540 C-2020		1	644719	PQD2	EET CLE	02/13/25 11:23
Total/NA	Analysis	2540D-2020		1	644566	TAV2	EET CLE	02/12/25 11:19
Total/NA	Analysis	300.0-1993 R2.1		1	645270	JMR	EET CLE	02/18/25 18:48
Total/NA	Analysis	300.0-1993 R2.1		10	645270	JMR	EET CLE	02/18/25 19:10
Total/NA	Prep	PrecSep-21			702736	OGC	EET SL	02/13/25 07:57
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 14:53
Total/NA	Prep	PrecSep_0			702740	OGC	EET SL	02/13/25 08:01
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 12:12
Total/NA	Analysis	Ra226_Ra228 Pos		1	706940	SCB	EET SL	03/10/25 11:34

Client Sample ID: L502169-05 MW-16B

Lab Sample ID: 240-218718-30

Date Collected: 02/06/25 13:13

Matrix: Water

Date Received: 02/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/11/25 22:53
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:48
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 19:06
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644192	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644433	TQ6W	EET CLE	02/11/25 11:43
Total/NA	Analysis	2320 B-2021		1	644780	PQD2	EET CLE	02/12/25 16:51
Total/NA	Analysis	2540 C-2020		1	644719	PQD2	EET CLE	02/13/25 11:23
Total/NA	Analysis	2540D-2020		1	644566	TAV2	EET CLE	02/12/25 11:19
Total/NA	Analysis	300.0-1993 R2.1		1	645270	JMR	EET CLE	02/18/25 19:31
Total/NA	Prep	PrecSep-21			702736	OGC	EET SL	02/13/25 07:57
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 14:53
Total/NA	Prep	PrecSep_0			702740	OGC	EET SL	02/13/25 08:01
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 12:12
Total/NA	Analysis	Ra226_Ra228 Pos		1	706940	SCB	EET SL	03/10/25 11:34

Client Sample ID: L502169-06 MW-16C

Lab Sample ID: 240-218718-31

Date Collected: 02/06/25 14:45

Matrix: Water

Date Received: 02/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/11/25 22:57
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:51

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-06 MW-16C

Lab Sample ID: 240-218718-31

Date Collected: 02/06/25 14:45

Matrix: Water

Date Received: 02/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 19:09
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644192	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644433	TQ6W	EET CLE	02/11/25 11:44
Total/NA	Analysis	2320 B-2021		1	644780	PQD2	EET CLE	02/12/25 16:59
Total/NA	Analysis	2540 C-2020		1	644719	PQD2	EET CLE	02/13/25 11:23
Total/NA	Analysis	2540D-2020		1	644566	TAV2	EET CLE	02/12/25 11:19
Total/NA	Analysis	300.0-1993 R2.1		1	645270	JMR	EET CLE	02/18/25 19:53
Total/NA	Prep	PrecSep-21			702736	OGC	EET SL	02/13/25 07:57
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 14:53
Total/NA	Prep	PrecSep_0			702740	OGC	EET SL	02/13/25 08:01
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	706940	SCB	EET SL	03/10/25 11:34

Client Sample ID: L502169-07 MW-16D

Lab Sample ID: 240-218718-32

Date Collected: 02/06/25 13:41

Matrix: Water

Date Received: 02/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8-1994 R5.4			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/11/25 23:01
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:54
Total Recoverable	Prep	200.8-1994 R5.4			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 19:11
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644192	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644433	TQ6W	EET CLE	02/11/25 11:50
Total/NA	Analysis	2320 B-2021		1	644780	PQD2	EET CLE	02/12/25 17:04
Total/NA	Analysis	2540 C-2020		1	644719	PQD2	EET CLE	02/13/25 11:23
Total/NA	Analysis	2540D-2020		1	644566	TAV2	EET CLE	02/12/25 11:19
Total/NA	Analysis	300.0-1993 R2.1		1	645270	JMR	EET CLE	02/18/25 20:15
Total/NA	Prep	PrecSep-21			702736	OGC	EET SL	02/13/25 07:57
Total/NA	Analysis	903.0		1	706560	SWS	EET SL	03/07/25 14:53
Total/NA	Prep	PrecSep_0			702740	OGC	EET SL	02/13/25 08:01
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	706940	SCB	EET SL	03/10/25 11:34

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Client Sample ID: L502169-08 FLD BLK

Lab Sample ID: 240-218718-33

Date Collected: 02/06/25 10:10

Matrix: Water

Date Received: 02/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8-1994 R5.4			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	644428	AJC	EET CLE	02/11/25 23:06
Total/NA	Prep	200.8			5006	RMN	EET SSM	02/13/25 16:37
Total/NA	Analysis	200.8		1	5032	CW	EET SSM	02/14/25 15:56
Total Recoverable	Prep	200.8-1994 R5.4			644186	MN7X	EET CLE	02/10/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	644422	S4FJ	EET CLE	02/11/25 19:14
Total Recoverable	Analysis	2340 B-2021		1	645307	KLC	EET CLE	02/18/25 15:02
Total/NA	Prep	245.1-1994 R3.0			644192	MN7X	EET CLE	02/10/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	644433	TQ6W	EET CLE	02/11/25 11:51
Total/NA	Analysis	2320 B-2021		1	644780	PQD2	EET CLE	02/12/25 17:11
Total/NA	Analysis	2540 C-2020		1	644719	PQD2	EET CLE	02/13/25 11:23
Total/NA	Analysis	2540D-2020		1	644566	TAV2	EET CLE	02/12/25 11:19
Total/NA	Analysis	300.0-1993 R2.1		1	645270	JMR	EET CLE	02/18/25 20:37
Total/NA	Prep	PrecSep-21			702736	OGC	EET SL	02/13/25 07:57
Total/NA	Analysis	903.0		1	706561	SWS	EET SL	03/07/25 14:47
Total/NA	Prep	PrecSep_0			702740	OGC	EET SL	02/13/25 08:01
Total/NA	Analysis	904.0		1	706383	SWS	EET SL	03/06/25 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	706940	SCB	EET SL	03/10/25 11:34

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4062	02-27-25

Laboratory: Eurofins Seattle Specialty Metals

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	20-004	02-19-25
ANAB	Dept. of Defense ELAP	L2236	01-19-27
ANAB	Dept. of Energy	L2236.01	01-19-27
ANAB	ISO/IEC 17025	L2236	01-19-27
California	State	2954	07-07-25
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

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	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-08-25
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	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
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	06-30-25
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
MI - RadChem Recognition	State	9005	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Cleveland

Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-218718-1

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	06-30-25
Oklahoma	NELAP	9997	08-31-25
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

Chain of Custody

Return Samples to: Eurofins Michigan
10448 Citation Drive
Brighton, MI 48116

Contains Rush Work: 

Contains Methods That May Expire Soon: ☐

Client Contact Info								Project Info								Methods and Bottles																									
Name: Jennifer Caporale Address : 1110 South Pennsylvania Address 2: City, State Zip: Lansing, Michigan 48901 Phone: 517-702-6482 Email: Jennifer.Caporale@LBWL.com Deliverables:								Company: Lansing Board of Water & Light Purchase Order: Purchase Order not required Work Order: Requested TAT: Project Number: 24034575 Sample State: MI Special Instructions:								Project Manager: Howell, Leslie Project Reference: Sampler: Marc Wahrer and Julie Maltby Description: Erickson Wellfield Site Name: Erickson Projects								300.0_28D (MOD) All Anions [ANY] SM2340B/Auto_ TotalRec Total Hardness (as CaCO3) by calculation [HAR] 2540C_ Calcd Total Dissolved Solids [TDS] 903.0/PrecSep_21 Standard Target List [STD] Ra226_228AS_P Local Method [160] 245.1/245.1_Prep Mercury [MER] 2320B (MOD) Any Analyte [ANY] 200.7/200.7_P_TR (MOD) 1 element, including prep [C01] 904.0/PrecSep_0 Standard Target List [STD] 2540D Solids, Total Suspended (TSS) [TSS] 200.8/200.8_P_TR (MOD) 1 element, including prep [C01] 200.7 R4.4-1994 / Metals (ICP) / Total Boron 300.0-1993 R2.1 / Anions, Ion Chromatography / Chloride, Fluoride & Sulfate 2540 C-2020 / Solids, Total Dissolved (TDS) / Total Dissolved Solids 245.1-1994 R3.0 / Mercury (CVAA) / Mercury Plastic 500ml - with Nitric Acid Plastic 1 liter - Nitric Acid Plastic 60 mL - unpreserved Plastic 500ml - unpreserved Plastic 1 liter - unpreserved Total Bottles For Sample																	
Samples																																									
#	Sample Name	Type	Matrix	Date/Time (24hr)	MS / MSD	Instructions/Comments	Lat/Long																																		
1	L502169-01 MW-3	Grab	Water	02/06/25 09:42				X	X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	1	7											
2	L502169-02 MW-13	Grab	Water	02/06/25 11:40				X	X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	1	7											
3	L502169-03 MWT-3	Grab	Water	02/06/25 09:42				X	X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	1	7											
4	L502169-04 MW-16A	Grab	Water	02/06/25 11:38				X	X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	1	7											
5	L502169-05 MW-16B	Grab	Water	02/06/25 13:13				X	X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	1	7											
6	L502169-06 MW-16C	Grab	Water	02/06/25 14:45				X	X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	1	7											
7	L502169-07 MW-16D	Grab	Water	02/06/25 13:41				X	X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	1	7											
8	L502169-08 FLD BLK	Grab	Water	02/06/25 10:10				X	X	X	X	X	X	X	X	X	X	X	X	X					0	0	0	0	1	7											
Possible Hazards : Unknown								Sample Disposal (A fee may be assessed, if samples are retained longer than 1 month) : Disposal by Lab																																	

Custody History (All dates and times have been converted to the Eastern time zone and are in 24 Hr format.)

eCOC Submitted By:	Date/Time:	Samples Relinquished To:	Date/Time:		
Jennifer Caporale	02/07/25 13:10	Cleveland - Waypoint courier Jennifer Caporale	02/07/25 13:10		

Coolers

Cooler Name	Cooler Description	QR/Barcode	Uncorrected Cooler Temperature (?C)	Corrected Cooler Temperature	Thermometer ID	Temperature Checked By	Cooler Ice Type	Cooler Packing Type
MIC20250207A001								
MIC20250207A001								
MIC20250207A002								

Chain of Custody

Return Samples to: Eurofins Michigan
10448 Citation Drive
Brighton, MI 48116



240-218718 COC

Contains Rush Work: ☐ Contains Methods That May Expire Soon: ☐

Client Contact Info	Project Info	Methods and Bottles
Name: Jennifer Caporale Address : 1110 South Pennsylvania Address 2: City, State Zip: Lansing, Michigan 48901 Phone: 517-702-6482 Email: Jennifer.Caporale@LBWL.com Deliverables:	Company: Lansing Board of Water & Light Purchase Order: Purchase Order not required Work Order: Requested TAT: Project Number: 24034575 Sample State: MI Special Instructions:	Project Manager: Howell, Leslie Project Reference: Sampler: Marc Wahrer and Julie Maltby Description: Erickson Wellfield Site Name: Erickson Projects

Samples							
#	Sample Name	Type	Matrix	Date/Time (24hr)	MS / MSD	Instructions/Comments	Lat/Long
1	L502169-01 MW-3	Grab	Water	02/06/25 09:42			
2	L502169-02 MW-13	Grab	Water	02/06/25 11:40			
3	L502169-03 MWT-3	Grab	Water	02/06/25 09:42			
4	L502169-04 MW-16A	Grab	Water	02/06/25 11:38			
5	L502169-05 MW-16B	Grab	Water	02/06/25 13:13			
6	L502169-06 MW-16C	Grab	Water	02/06/25 14:45			
7	L502169-07 MW-16D	Grab	Water	02/06/25 13:41			
8	L502169-08 FLD BLK	Grab	Water	02/06/25 10:10			

Possible Hazards : Unknown

Sample Disposal (A fee may be assessed, if samples are retained longer than 1 month) :	Disposal by Lab
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Custody History (All dates and times have been converted to the Eastern time zone and are in 24 Hr format.)

eCOC Submitted By	Date/Time:	Samples Relinquished To:	Date/Time:	J MOROSKO 2/8/25 Ewa 00800	
Jennifer Caporale	02/07/25 13:10	Cleveland Waypoint courier Jennifer Caporale	02/07/25 13:10		

Coolers

Cooler Name	Cooler Description	QR/Barcode	Uncorrected Cooler Temperature (°C)	Corrected Cooler Temperature	Thermometer ID	Temperature Checked By	Cooler Ice Type	Cooler Packing Type
MIC20250207A001								
MIC20250207A001								
MIC20250207A002								

Eurofins - Cleveland Sample Receipt Form/Narrative		Login # _____	
Barberton Facility			
Client <u>LANSING Board of Water</u>	Site Name _____	Cooler unpacked by <u>JMOROSKO</u>	
Cooler Received on <u>2/8/25</u>	Opened on <u>2/8/25</u>		
FedEx: 1 st Grd Exp <u>UPS</u> FAS <u>Weypoint</u>	Client Drop Off <u>Eurofins Courier</u>	Other _____	
Receipt After-hours Drop-off Date/Time _____		Storage Location _____	
Eurofins Cooler # <u>EC</u>	Foam Box _____	Client Cooler _____	Box _____ Other _____
Packing material used. Bubble Wrap _____ Foam _____ Plastic Bag _____ None _____ Other _____			
COOLANT: <u>Wet Ice</u> Blue Ice _____ Dry Ice _____ Water _____ None _____			
1 Cooler temperature upon receipt ☒ See Multiple Cooler Form			
IR GUN # <u>21</u> (CF <u>11</u> °C)		Observed Cooler Temp _____ °C	Corrected Cooler Temp _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> ☒ Yes ☒ No ☒ NA -Were the seals on the outside of the cooler(s) signed & dated? ☒ Yes ☒ No ☒ NA -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? ☒ Yes ☒ No ☒ NA -Were tamper/custody seals intact and uncompromised? ☒ Yes ☒ No ☒ NA 3 Shippers' packing slip attached to the cooler(s)? ☒ Yes ☒ No ☒ NA 4 Did custody papers accompany the sample(s)? ☒ Yes ☒ No ☒ NA 5 Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☒ No ☒ NA 6 Was/were the person(s) who collected the samples clearly identified on the COC? ☒ Yes ☒ No ☒ NA 7 Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☒ No ☒ NA 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? ☒ Yes ☒ No ☒ NA 9 For each sample, does the COC specify preservative ☒ (Y/N), # of containers ☒ (Y/N), and sample type of grab/comp ☒ (Y/N)? 10 Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☒ No ☒ NA 11 Sufficient quantity received to perform indicated analyses? ☒ Yes ☒ No ☒ NA 12 Are these work share samples and all listed on the COC? ☒ Yes ☒ No ☒ NA If yes, Questions 13-17 have been checked at the originating laboratory 13 Were all preserved sample(s) at the correct pH upon receipt? ☒ Yes ☒ No ☒ NA pH Strip Lot# HC448976 14 Were VOAs on the COC? ☒ Yes ☒ No ☒ NA 15 Were air bubbles > 6 mm in any VOA vials? ☒ Yes ☒ No ☒ NA 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ ☒ Yes ☒ No ☒ NA 17 Was a LL Hg or Me Hg trip blank present? ☒ Yes ☒ No ☒ NA Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____ Concerning _____			
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page			Samples processed by _____
19. SAMPLE CONDITION			
Sample(s) _____ were received after the recommended holding time had expired			
Sample(s) _____ were received in a broken container			
Sample(s) _____ were received with bubble > 6 mm in diameter (Notify PM)			
20. SAMPLE PRESERVATION			
Sample(s) _____ were further preserved in the laboratory			
Time preserved. _____ Preservative(s) added/Lot number(s): _____			
VOA Sample Preservation - Date/Time VOAs Frozen _____			

Phone: 330-497-9396 Fax: 330-497-0772

180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax:

Client Information (Sub Contract Lab)						Lab PM:	Carrier Tracking No(s)	COC No.
Shipping/Receiving						N/A	N/A	240-198113.1
Company						E-Mail	State of Origin	Page
TestAmerica Laboratories, Inc.						Leslie.Howell@et.eurofinsus.com	Michigan	Page 1 of 1
Address						Accreditations Required (See note).	Job #	Preservation Codes:
13715 Rider Trail North,						NELAP - Oregon	240-218718-1	
City								
Earth City								
State, Zip								
MO, 63045								
Phone								
314-298-8566(Tel) 314-298-8757(Fax)								
N/A								
Project Name								
Erickson Projects								
Site								
N/A								
Due Date Requested:						Analysis Requested		
2/24/2025								
TAT Requested (days):								
N/A								
PO #								
N/A								
WO #								
N/A								
Project #:								
24034575								
SSOW#								
N/A								
Sample Identification - Client ID (Lab ID)						Special Instructions/Note:		
L502169-01 MW-3 (240-218718-26)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, ST=tissue, Ash)	Perform MSMSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Total Number of Containers
	2/6/25	09:42 Eastern	G	Water	X	X	X	2
L502169-02 MW-13 (240-218718-27)	2/6/25	11:40 Eastern	G	Water	X	X	X	2
L502169-03 MWT-3 (240-218718-28)	2/6/25	09:42 Eastern	G	Water	X	X	X	2
L502169-04 MW-16A (240-218718-29)	2/6/25	11:38 Eastern	G	Water	X	X	X	2
L502169-05 MW-16B (240-218718-30)	2/6/25	13:13 Eastern	G	Water	X	X	X	2
L502169-06 MW-16C (240-218718-31)	2/6/25	14:45 Eastern	G	Water	X	X	X	2
L502169-07 MW-16D (240-218718-32)	2/6/25	13:41 Eastern	G	Water	X	X	X	2
L502169-08 FLD BLK (240-218718-33)	2/6/25	10:10 Eastern	G	Water	X	X	X	2

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)
Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QC Requirements:

Date/Time	Received by	Company
2/10/25	Cheyenne Forrest	Company
	Cheyenne Forrest	Company
		Company

Empty Kit Requisitioned by:
Relinquished by:
Relinquished by:
Relinquished by:

Custody Seal Intact: Δ Yes Δ No Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



3/11/2025

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-218718-1

Login Number: 218718

List Number: 3

Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals

List Creation: 02/11/25 01:03 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.	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	
Is the Field Sampler's name present on COC?	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	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-218718-1

Login Number: 218718

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 02/11/25 01:03 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.	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	
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	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jennifer Caporale
Lansing Board of Water & Light
1110 South Pennsylvania
Lansing, Michigan 48901

Generated 4/1/2025 11:23:34 AM

JOB DESCRIPTION

Erickson Projects

JOB NUMBER

240-219708-1

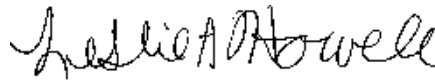
Eurofins Cleveland

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 Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
Leslie Howell, Project Manager I
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(330)966-9266

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Definitions/Glossary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Lansing Board of Water & Light
Project: Erickson Projects

Job ID: 240-219708-1

Job ID: 240-219708-1

Eurofins Cleveland

Job Narrative 240-219708-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/1/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.9°C, 2.9°C, 4.1°C and 5.5°C.

Metals

Method 200.8_CWA: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: L502194-02 MW-17B (240-219708-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gas Flow Proportional Counter

Method 904.0: Radium 228 batch 706366

The LCS recovered at (128%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (68-154%) per method requirements. The LCS passes, no further action is required (LCS 160-706366/2-A)

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.

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Method Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Method	Method Description	Protocol	Laboratory
200.7 R4.4-1994	Metals (ICP)	EPA	EET CLE
200.8	Metals (ICP/MS)	EPA	EET SSM
200.8-1994 R5.4	Metals (ICP/MS)	EPA	EET CLE
2340 B-2021	Total Hardness (as CaCO3) by calculation	SM	EET CLE
245.1-1994 R3.0	Mercury (CVAA)	EPA	EET CLE
2320 B-2021	Alkalinity	SM	EET CLE
2540 C-2020	Solids, Total Dissolved (TDS)	SM	EET CLE
2540D-2020	Solids, Total Suspended (TSS)	SM	EET CLE
300.0-1993 R2.1	Anions, Ion Chromatography	EPA	EET CLE
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
Pos			
200.7	Preparation, Total Recoverable Metals	EPA	EET CLE
200.8	Preparation, Total Metals	EPA	EET SSM
200.8-1994 R5.4	Preparation, Total Recoverable Metals	EPA	EET CLE
245.1-1994 R3.0	Preparation, Mercury	EPA	EET CLE
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
SM = "Standard Methods For The Examination Of Water And Wastewater"
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566
EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219708-1	L502194-01 MW-17A	Water	02/27/25 09:28	03/01/25 08:00
240-219708-2	L502194-02 MW-17B	Water	02/27/25 10:59	03/01/25 08:00
240-219708-3	L502194-03 MW-17C	Water	02/27/25 12:37	03/01/25 08:00
240-219708-4	L502194-04 MW-17D	Water	02/27/25 13:59	03/01/25 08:00
240-219708-5	L502194-05 MW-17E	Water	02/27/25 15:13	03/01/25 08:00
240-219708-6	L502194-06 MW-18A	Water	02/27/25 08:53	03/01/25 08:00
240-219708-7	L502194-07 MW-18B	Water	02/27/25 10:13	03/01/25 08:00
240-219708-8	L502194-08 MW-18C	Water	02/27/25 11:41	03/01/25 08:00
240-219708-9	L502194-09 MW-18D	Water	02/27/25 13:01	03/01/25 08:00
240-219708-10	L502194-10 MWT-17A	Water	02/27/25 09:28	03/01/25 08:00
240-219708-11	L502194-11 FB	Water	02/27/25 07:45	03/01/25 08:00

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-01 MW-17A

Lab Sample ID: 240-219708-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	4.7		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0011	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.038		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.018		0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.014		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	240		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	70		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.053		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	6.5		0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.0013	J	0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	890		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	250		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	1300		20	16	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	14		4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	67		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.44		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	650		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L502194-02 MW-17B

Lab Sample ID: 240-219708-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	2.1		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0018	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.050		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.00010	J B	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.097		0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.0043		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	140		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	32		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.091		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	2.3		0.50	0.067	mg/L	5			200.8	Total/NA
Zinc	0.045		0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	470		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	190		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	860		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	6.0		4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	67		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-02 MW-17B (Continued)

Lab Sample ID: 240-219708-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoride	0.32		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	390		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L502194-03 MW-17C

Lab Sample ID: 240-219708-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	2.7		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0024	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.060		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.00010	J B	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.047		0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.0089		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	180		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	48		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.056		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	1.9		0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.0038	J	0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	650		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	270		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	1100		20	16	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	5.0		4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	59		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.30		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	560		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L502194-04 MW-17D

Lab Sample ID: 240-219708-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	2.5		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0013	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.044		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cadmium	0.00017	J	0.0010	0.000077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0048	J	0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Antimony	0.00059	J	0.0020	0.00057	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	50		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	16		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.032		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	0.77		0.10	0.013	mg/L	1			200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-04 MW-17D (Continued)

Lab Sample ID: 240-219708-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Zinc	0.0010	J	0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	190		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	290		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	290		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	1.9	J	4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	6.3		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.43		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	7.3		1.0	0.35	mg/L	1			300.0-1993 R2.1	Total/NA

Client Sample ID: L502194-05 MW-17E

Lab Sample ID: 240-219708-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	3.4		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Barium	0.0047	J	0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	5.4		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	1.6		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.024		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	0.050	J	0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.0013	J	0.0070	0.00093	mg/L	1			200.8	Total/NA
Bicarbonate Alkalinity as CaCO3	330		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Carbonate Alkalinity as CaCO3	21		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	360		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	0.70	J	4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	1.4		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	1.2		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA

Client Sample ID: L502194-06 MW-18A

Lab Sample ID: 240-219708-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	1.2		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0017	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.072		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.073		0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	110		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	21		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.093		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	3.4		0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.0011	J	0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	360		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	240		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	580		10	7.8	mg/L	1			2540 C-2020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-06 MW-18A (Continued)

Lab Sample ID: 240-219708-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Total Suspended Solids	10		4.0	0.40	mg/L			1	2540D-2020	Total/NA
Chloride	64		1.0	0.13	mg/L			1	300.0-1993 R2.1	Total/NA
Fluoride	0.50		0.050	0.024	mg/L			1	300.0-1993 R2.1	Total/NA
Sulfate	150		1.0	0.35	mg/L			1	300.0-1993 R2.1	Total/NA

Client Sample ID: L502194-07 MW-18B

Lab Sample ID: 240-219708-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	2.0		0.10	0.057	mg/L			1	200.7 R4.4-1994	Total Recoverable
Barium	0.043		0.0050	0.00077	mg/L			1	200.8-1994 R5.4	Total Recoverable
Molybdenum	0.10		0.0050	0.0011	mg/L			1	200.8-1994 R5.4	Total Recoverable
Nickel	0.0059		0.0020	0.0015	mg/L			1	200.8-1994 R5.4	Total Recoverable
Calcium	130		1.0	0.25	mg/L			1	200.8-1994 R5.4	Total Recoverable
Magnesium	25		1.0	0.061	mg/L			1	200.8-1994 R5.4	Total Recoverable
Lithium	0.096		0.0080	0.0034	mg/L			1	200.8-1994 R5.4	Total Recoverable
Iron	2.3		0.10	0.013	mg/L			1	200.8	Total/NA
Hardness as calcium carbonate	430		33	33	mg/L			1	2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	160		5.0	2.6	mg/L			1	2320 B-2021	Total/NA
Total Dissolved Solids	770		10	7.8	mg/L			1	2540 C-2020	Total/NA
Total Suspended Solids	2.7 J		4.0	0.40	mg/L			1	2540D-2020	Total/NA
Chloride	81		1.0	0.13	mg/L			1	300.0-1993 R2.1	Total/NA
Fluoride	0.34		0.050	0.024	mg/L			1	300.0-1993 R2.1	Total/NA
Sulfate	350		5.0	1.7	mg/L			5	300.0-1993 R2.1	Total/NA

Client Sample ID: L502194-08 MW-18C

Lab Sample ID: 240-219708-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	3.0		0.10	0.057	mg/L			1	200.7 R4.4-1994	Total Recoverable
Barium	0.053		0.0050	0.00077	mg/L			1	200.8-1994 R5.4	Total Recoverable
Molybdenum	0.12		0.0050	0.0011	mg/L			1	200.8-1994 R5.4	Total Recoverable
Nickel	0.010		0.0020	0.0015	mg/L			1	200.8-1994 R5.4	Total Recoverable
Calcium	200		1.0	0.25	mg/L			1	200.8-1994 R5.4	Total Recoverable
Magnesium	53		1.0	0.061	mg/L			1	200.8-1994 R5.4	Total Recoverable
Lithium	0.085		0.0080	0.0034	mg/L			1	200.8-1994 R5.4	Total Recoverable
Iron	3.4		0.10	0.013	mg/L			1	200.8	Total/NA
Zinc	0.00096 J		0.0070	0.00093	mg/L			1	200.8	Total/NA
Hardness as calcium carbonate	710		33	33	mg/L			1	2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	180		5.0	2.6	mg/L			1	2320 B-2021	Total/NA
Total Dissolved Solids	1100		20	16	mg/L			1	2540 C-2020	Total/NA
Total Suspended Solids	5.4		4.0	0.40	mg/L			1	2540D-2020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-08 MW-18C (Continued)

Lab Sample ID: 240-219708-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	87		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.19		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	560		5.0	1.7	mg/L	5		300.0-1993 R2.1	Total/NA

Client Sample ID: L502194-09 MW-18D

Lab Sample ID: 240-219708-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	3.9		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Barium	0.028		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cobalt	0.00017	J B	0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.069		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Nickel	0.0040		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	77		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	15		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.077		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	1.7		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0015	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	250		33	33	mg/L	1		2340 B-2021	Total Recoverable
Mercury	0.00013	J	0.00020	0.00013	mg/L	1		245.1-1994 R3.0	Total/NA
Bicarbonate Alkalinity as CaCO3	290		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	620		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	1.3	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	37		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.91		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	200		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L502194-10 MWT-17A

Lab Sample ID: 240-219708-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	4.4		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.00095	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.038		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.016		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Nickel	0.014		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	240		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	70		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.053		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	6.2		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0015	J	0.0070	0.00093	mg/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-10 MWT-17A (Continued)

Lab Sample ID: 240-219708-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Hardness as calcium carbonate	880		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	250		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	1300		20	16	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	15		4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	67		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.22		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	640		5.0	1.7	mg/L	5		300.0-1993 R2.1	Total/NA

Client Sample ID: L502194-11 FB

Lab Sample ID: 240-219708-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-01 MW-17A

Lab Sample ID: 240-219708-1

Date Collected: 02/27/25 09:28

Matrix: Water

Date Received: 03/01/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.7		0.10	0.057	mg/L		03/03/25 14:00	03/04/25 20:04	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 17:26	1
Arsenic	0.0011	J	0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 17:26	1
Barium	0.038		0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 17:26	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 17:26	1
Cadmium	ND		0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 17:26	1
Cobalt	ND		0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 17:26	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 17:26	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 17:26	1
Molybdenum	0.018		0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 17:26	1
Nickel	0.014		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 17:26	1
Lead	ND		0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 17:26	1
Antimony	ND		0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 17:26	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 17:26	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 17:26	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 17:26	1
Calcium	240		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 17:26	1
Magnesium	70		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 17:26	1
Lithium	0.053		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 17:26	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6.5		0.10	0.013	mg/L		03/25/25 14:42	03/26/25 15:24	1
Zinc	0.0013	J	0.0070	0.00093	mg/L		03/25/25 14:42	03/26/25 15:24	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	890		33	33	mg/L			03/07/25 08:56	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	250		5.0	2.6	mg/L			03/08/25 01:33	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			03/08/25 01:33	1
Total Dissolved Solids (SM 2540 C-2020)	1300		20	16	mg/L			03/06/25 10:24	1
Total Suspended Solids (SM 2540D-2020)	14		4.0	0.40	mg/L			03/04/25 07:47	1
Chloride (EPA 300.0-1993 R2.1)	67		1.0	0.13	mg/L			03/05/25 18:09	1
Fluoride (EPA 300.0-1993 R2.1)	0.44		0.050	0.024	mg/L			03/05/25 18:09	1
Sulfate (EPA 300.0-1993 R2.1)	650		5.0	1.7	mg/L			03/05/25 18:30	5

Eurofins Cleveland

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-01 MW-17A

Lab Sample ID: 240-219708-1

Date Collected: 02/27/25 09:28

Matrix: Water

Date Received: 03/01/25 08:00

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	0.107	0.108	1.00	0.163	pCi/L	03/06/25 07:45	03/31/25 22:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		30 - 110					03/06/25 07:45	03/31/25 22:11	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	0.534	U	0.416	0.419	1.00	0.644	pCi/L	03/06/25 07:47	03/28/25 14:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		30 - 110					03/06/25 07:47	03/28/25 14:15	1
Y Carrier	77.4		30 - 110					03/06/25 07:47	03/28/25 14:15	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	0.650		0.430	0.433	5.00	0.644	pCi/L		03/31/25 19:07	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-02 MW-17B

Lab Sample ID: 240-219708-2

Date Collected: 02/27/25 10:59

Matrix: Water

Date Received: 03/01/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.1		0.10	0.057	mg/L		03/03/25 14:00	03/05/25 19:49	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 18:10	1
Arsenic	0.0018	J	0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 18:10	1
Barium	0.050		0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 18:10	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 18:10	1
Cadmium	ND		0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 18:10	1
Cobalt	0.00010	J B	0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 18:10	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 18:10	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 18:10	1
Molybdenum	0.097		0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 18:10	1
Nickel	0.0043		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 18:10	1
Lead	ND		0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 18:10	1
Antimony	ND		0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 18:10	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 18:10	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 18:10	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 18:10	1
Calcium	140		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 18:10	1
Magnesium	32		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 18:10	1
Lithium	0.091		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 18:10	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.3		0.50	0.067	mg/L		03/25/25 14:42	03/27/25 12:49	5
Zinc	0.045		0.0070	0.00093	mg/L		03/25/25 14:42	03/26/25 16:10	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	470		33	33	mg/L			03/07/25 09:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 16:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	190		5.0	2.6	mg/L			03/08/25 01:39	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			03/08/25 01:39	1
Total Dissolved Solids (SM 2540 C-2020)	860		10	7.8	mg/L			03/06/25 10:24	1
Total Suspended Solids (SM 2540D-2020)	6.0		4.0	0.40	mg/L			03/04/25 07:47	1
Chloride (EPA 300.0-1993 R2.1)	67		1.0	0.13	mg/L			03/05/25 18:51	1
Fluoride (EPA 300.0-1993 R2.1)	0.32		0.050	0.024	mg/L			03/05/25 18:51	1
Sulfate (EPA 300.0-1993 R2.1)	390		5.0	1.7	mg/L			03/05/25 19:12	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-02 MW-17B

Lab Sample ID: 240-219708-2

Date Collected: 02/27/25 10:59

Matrix: Water

Date Received: 03/01/25 08:00

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	0.199		0.132	0.133	1.00	0.179	pCi/L	03/06/25 07:45	03/31/25 22:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		30 - 110					03/06/25 07:45	03/31/25 22:11	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	-0.0674	U	0.355	0.355	1.00	0.685	pCi/L	03/06/25 07:47	03/28/25 14:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		30 - 110					03/06/25 07:47	03/28/25 14:15	1
Y Carrier	75.9		30 - 110					03/06/25 07:47	03/28/25 14:15	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	0.199	U	0.379	0.379	5.00	0.685	pCi/L		03/31/25 19:07	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-03 MW-17C

Lab Sample ID: 240-219708-3

Date Collected: 02/27/25 12:37

Matrix: Water

Date Received: 03/01/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.7		0.10	0.057	mg/L		03/03/25 14:00	03/05/25 19:53	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 18:13	1
Arsenic	0.0024	J	0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 18:13	1
Barium	0.060		0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 18:13	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 18:13	1
Cadmium	ND		0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 18:13	1
Cobalt	0.00010	J B	0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 18:13	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 18:13	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 18:13	1
Molybdenum	0.047		0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 18:13	1
Nickel	0.0089		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 18:13	1
Lead	ND		0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 18:13	1
Antimony	ND		0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 18:13	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 18:13	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 18:13	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 18:13	1
Calcium	180		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 18:13	1
Magnesium	48		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 18:13	1
Lithium	0.056		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 18:13	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.9		0.10	0.013	mg/L		03/25/25 14:42	03/26/25 16:13	1
Zinc	0.0038	J	0.0070	0.00093	mg/L		03/25/25 14:42	03/26/25 16:13	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	650		33	33	mg/L			03/07/25 09:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	270		5.0	2.6	mg/L			03/08/25 01:44	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			03/08/25 01:44	1
Total Dissolved Solids (SM 2540 C-2020)	1100		20	16	mg/L			03/06/25 10:24	1
Total Suspended Solids (SM 2540D-2020)	5.0		4.0	0.40	mg/L			03/04/25 07:47	1
Chloride (EPA 300.0-1993 R2.1)	59		1.0	0.13	mg/L			03/05/25 19:33	1
Fluoride (EPA 300.0-1993 R2.1)	0.30		0.050	0.024	mg/L			03/05/25 19:33	1
Sulfate (EPA 300.0-1993 R2.1)	560		5.0	1.7	mg/L			03/05/25 20:37	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-03 MW-17C

Lab Sample ID: 240-219708-3

Date Collected: 02/27/25 12:37

Matrix: Water

Date Received: 03/01/25 08:00

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	0.337		0.137	0.140	1.00	0.140	pCi/L	03/06/25 07:45	03/31/25 22:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		30 - 110					03/06/25 07:45	03/31/25 22:11	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	0.401	U	0.345	0.347	1.00	0.539	pCi/L	03/06/25 07:47	03/28/25 14:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		30 - 110					03/06/25 07:47	03/28/25 14:15	1
Y Carrier	74.0		30 - 110					03/06/25 07:47	03/28/25 14:15	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	0.738		0.371	0.374	5.00	0.539	pCi/L		03/31/25 19:07	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-04 MW-17D

Lab Sample ID: 240-219708-4

Date Collected: 02/27/25 13:59

Matrix: Water

Date Received: 03/01/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.5		0.10	0.057	mg/L		03/03/25 14:00	03/05/25 18:50	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 17:34	1
Arsenic	0.0013	J	0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 17:34	1
Barium	0.044		0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 17:34	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 17:34	1
Cadmium	0.00017	J	0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 17:34	1
Cobalt	ND		0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 17:34	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 17:34	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 17:34	1
Molybdenum	0.0048	J	0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 17:34	1
Nickel	ND		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 17:34	1
Lead	ND		0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 17:34	1
Antimony	0.00059	J	0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 17:34	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 17:34	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 17:34	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 17:34	1
Calcium	50		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 17:34	1
Magnesium	16		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 17:34	1
Lithium	0.032		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 17:34	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.77		0.10	0.013	mg/L		03/25/25 14:42	03/26/25 16:16	1
Zinc	0.0010	J	0.0070	0.00093	mg/L		03/25/25 14:42	03/26/25 16:16	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	190		33	33	mg/L			03/07/25 09:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 15:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	290		5.0	2.6	mg/L			03/08/25 01:49	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			03/08/25 01:49	1
Total Dissolved Solids (SM 2540 C-2020)	290		10	7.8	mg/L			03/06/25 10:24	1
Total Suspended Solids (SM 2540D-2020)	1.9	J	4.0	0.40	mg/L			03/04/25 07:47	1
Chloride (EPA 300.0-1993 R2.1)	6.3		1.0	0.13	mg/L			03/05/25 20:58	1
Fluoride (EPA 300.0-1993 R2.1)	0.43		0.050	0.024	mg/L			03/05/25 20:58	1
Sulfate (EPA 300.0-1993 R2.1)	7.3		1.0	0.35	mg/L			03/05/25 20:58	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-04 MW-17D

Lab Sample ID: 240-219708-4

Date Collected: 02/27/25 13:59

Matrix: Water

Date Received: 03/01/25 08:00

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	0.311		0.160	0.162	1.00	0.207	pCi/L	03/06/25 07:45	03/31/25 22:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					03/06/25 07:45	03/31/25 22:11	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	0.777		0.400	0.406	1.00	0.562	pCi/L	03/06/25 07:47	03/28/25 14:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					03/06/25 07:47	03/28/25 14:15	1
Y Carrier	80.4		30 - 110					03/06/25 07:47	03/28/25 14:15	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	1.09		0.431	0.437	5.00	0.562	pCi/L		03/31/25 19:07	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-05 MW-17E

Lab Sample ID: 240-219708-5

Date Collected: 02/27/25 15:13

Matrix: Water

Date Received: 03/01/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.4		0.10	0.057	mg/L		03/03/25 14:00	03/05/25 19:57	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 18:16	1
Arsenic	ND		0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 18:16	1
Barium	0.0047	J	0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 18:16	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 18:16	1
Cadmium	ND		0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 18:16	1
Cobalt	ND		0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 18:16	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 18:16	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 18:16	1
Molybdenum	ND		0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 18:16	1
Nickel	ND		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 18:16	1
Lead	ND		0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 18:16	1
Antimony	ND		0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 18:16	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 18:16	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 18:16	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 18:16	1
Calcium	5.4		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 18:16	1
Magnesium	1.6		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 18:16	1
Lithium	0.024		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 18:16	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.050	J	0.10	0.013	mg/L		03/25/25 14:42	03/26/25 16:24	1
Zinc	0.0013	J	0.0070	0.00093	mg/L		03/25/25 14:42	03/26/25 16:24	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			03/07/25 09:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 16:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	330		5.0	2.6	mg/L			03/08/25 02:05	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	21		5.0	2.6	mg/L			03/08/25 02:05	1
Total Dissolved Solids (SM 2540 C-2020)	360		10	7.8	mg/L			03/06/25 10:24	1
Total Suspended Solids (SM 2540D-2020)	0.70	J	4.0	0.40	mg/L			03/04/25 07:47	1
Chloride (EPA 300.0-1993 R2.1)	1.4		1.0	0.13	mg/L			03/05/25 21:19	1
Fluoride (EPA 300.0-1993 R2.1)	1.2		0.050	0.024	mg/L			03/05/25 21:19	1
Sulfate (EPA 300.0-1993 R2.1)	ND		1.0	0.35	mg/L			03/05/25 21:19	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-05 MW-17E

Lab Sample ID: 240-219708-5

Date Collected: 02/27/25 15:13

Matrix: Water

Date Received: 03/01/25 08:00

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	0.136	U	0.104	0.105	1.00	0.149	pCi/L	03/06/25 07:45	03/31/25 22:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					03/06/25 07:45	03/31/25 22:11	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	0.0730	U	0.349	0.349	1.00	0.630	pCi/L	03/06/25 07:47	03/28/25 14:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					03/06/25 07:47	03/28/25 14:16	1
Y Carrier	75.5		30 - 110					03/06/25 07:47	03/28/25 14:16	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	0.209	U	0.364	0.364	5.00	0.630	pCi/L		03/31/25 19:07	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-06 MW-18A

Lab Sample ID: 240-219708-6

Date Collected: 02/27/25 08:53

Matrix: Water

Date Received: 03/01/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.10	0.057	mg/L		03/03/25 14:00	03/05/25 20:02	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 18:19	1
Arsenic	0.0017	J	0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 18:19	1
Barium	0.072		0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 18:19	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 18:19	1
Cadmium	ND		0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 18:19	1
Cobalt	ND		0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 18:19	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 18:19	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 18:19	1
Molybdenum	0.073		0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 18:19	1
Nickel	ND		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 18:19	1
Lead	ND		0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 18:19	1
Antimony	ND		0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 18:19	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 18:19	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 18:19	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 18:19	1
Calcium	110		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 18:19	1
Magnesium	21		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 18:19	1
Lithium	0.093		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 18:19	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.4		0.10	0.013	mg/L		03/25/25 14:42	03/26/25 16:27	1
Zinc	0.0011	J	0.0070	0.00093	mg/L		03/25/25 14:42	03/26/25 16:27	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	360		33	33	mg/L			03/07/25 09:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 16:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	240		5.0	2.6	mg/L			03/08/25 02:21	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			03/08/25 02:21	1
Total Dissolved Solids (SM 2540 C-2020)	580		10	7.8	mg/L			03/06/25 10:24	1
Total Suspended Solids (SM 2540D-2020)	10		4.0	0.40	mg/L			03/05/25 10:43	1
Chloride (EPA 300.0-1993 R2.1)	64		1.0	0.13	mg/L			03/05/25 21:40	1
Fluoride (EPA 300.0-1993 R2.1)	0.50		0.050	0.024	mg/L			03/05/25 21:40	1
Sulfate (EPA 300.0-1993 R2.1)	150		1.0	0.35	mg/L			03/05/25 21:40	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-06 MW-18A

Lab Sample ID: 240-219708-6

Date Collected: 02/27/25 08:53

Matrix: Water

Date Received: 03/01/25 08:00

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	0.221		0.145	0.146	1.00	0.199	pCi/L	03/06/25 07:45	03/31/25 22:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		30 - 110					03/06/25 07:45	03/31/25 22:11	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	0.135	U	0.381	0.381	1.00	0.673	pCi/L	03/06/25 07:47	03/28/25 14:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		30 - 110					03/06/25 07:47	03/28/25 14:10	1
Y Carrier	77.4		30 - 110					03/06/25 07:47	03/28/25 14:10	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	0.357	U	0.408	0.408	5.00	0.673	pCi/L		03/31/25 19:07	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-07 MW-18B

Lab Sample ID: 240-219708-7

Date Collected: 02/27/25 10:13

Matrix: Water

Date Received: 03/01/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.0		0.10	0.057	mg/L		03/03/25 14:00	03/05/25 20:06	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 18:21	1
Arsenic	ND		0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 18:21	1
Barium	0.043		0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 18:21	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 18:21	1
Cadmium	ND		0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 18:21	1
Cobalt	ND		0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 18:21	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 18:21	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 18:21	1
Molybdenum	0.10		0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 18:21	1
Nickel	0.0059		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 18:21	1
Lead	ND		0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 18:21	1
Antimony	ND		0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 18:21	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 18:21	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 18:21	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 18:21	1
Calcium	130		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 18:21	1
Magnesium	25		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 18:21	1
Lithium	0.096		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 18:21	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.3		0.10	0.013	mg/L		03/25/25 14:42	03/26/25 15:40	1
Zinc	ND		0.0070	0.00093	mg/L		03/25/25 14:42	03/26/25 15:40	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	430		33	33	mg/L			03/07/25 09:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 16:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	160		5.0	2.6	mg/L			03/08/25 02:26	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			03/08/25 02:26	1
Total Dissolved Solids (SM 2540 C-2020)	770		10	7.8	mg/L			03/06/25 10:24	1
Total Suspended Solids (SM 2540D-2020)	2.7 J		4.0	0.40	mg/L			03/05/25 10:43	1
Chloride (EPA 300.0-1993 R2.1)	81		1.0	0.13	mg/L			03/05/25 22:22	1
Fluoride (EPA 300.0-1993 R2.1)	0.34		0.050	0.024	mg/L			03/05/25 22:22	1
Sulfate (EPA 300.0-1993 R2.1)	350		5.0	1.7	mg/L			03/05/25 22:44	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-07 MW-18B

Lab Sample ID: 240-219708-7

Date Collected: 02/27/25 10:13

Matrix: Water

Date Received: 03/01/25 08:00

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	0.382		0.149	0.153	1.00	0.153	pCi/L	03/06/25 07:45	03/31/25 22:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		30 - 110					03/06/25 07:45	03/31/25 22:11	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	0.520	U	0.394	0.397	1.00	0.607	pCi/L	03/06/25 07:47	03/28/25 14:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		30 - 110					03/06/25 07:47	03/28/25 14:10	1
Y Carrier	79.3		30 - 110					03/06/25 07:47	03/28/25 14:10	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	0.902		0.421	0.425	5.00	0.607	pCi/L		03/31/25 19:07	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-08 MW-18C

Lab Sample ID: 240-219708-8

Date Collected: 02/27/25 11:41

Matrix: Water

Date Received: 03/01/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.0		0.10	0.057	mg/L		03/03/25 14:00	03/05/25 20:19	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 18:30	1
Arsenic	ND		0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 18:30	1
Barium	0.053		0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 18:30	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 18:30	1
Cadmium	ND		0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 18:30	1
Cobalt	ND		0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 18:30	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 18:30	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 18:30	1
Molybdenum	0.12		0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 18:30	1
Nickel	0.010		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 18:30	1
Lead	ND		0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 18:30	1
Antimony	ND		0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 18:30	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 18:30	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 18:30	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 18:30	1
Calcium	200		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 18:30	1
Magnesium	53		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 18:30	1
Lithium	0.085		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 18:30	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.4		0.10	0.013	mg/L		03/25/25 14:42	03/26/25 16:30	1
Zinc	0.00096	J	0.0070	0.00093	mg/L		03/25/25 14:42	03/26/25 16:30	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	710		33	33	mg/L			03/07/25 09:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	180		5.0	2.6	mg/L			03/08/25 02:31	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			03/08/25 02:31	1
Total Dissolved Solids (SM 2540 C-2020)	1100		20	16	mg/L			03/06/25 10:24	1
Total Suspended Solids (SM 2540D-2020)	5.4		4.0	0.40	mg/L			03/05/25 10:43	1
Chloride (EPA 300.0-1993 R2.1)	87		1.0	0.13	mg/L			03/05/25 23:05	1
Fluoride (EPA 300.0-1993 R2.1)	0.19		0.050	0.024	mg/L			03/05/25 23:05	1
Sulfate (EPA 300.0-1993 R2.1)	560		5.0	1.7	mg/L			03/05/25 23:26	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-08 MW-18C

Lab Sample ID: 240-219708-8

Date Collected: 02/27/25 11:41

Matrix: Water

Date Received: 03/01/25 08:00

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	0.562		0.180	0.187	1.00	0.171	pCi/L	03/06/25 07:45	03/31/25 22:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		30 - 110					03/06/25 07:45	03/31/25 22:12	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	0.939		0.428	0.436	1.00	0.576	pCi/L	03/06/25 07:47	03/28/25 14:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		30 - 110					03/06/25 07:47	03/28/25 14:10	1
Y Carrier	79.3		30 - 110					03/06/25 07:47	03/28/25 14:10	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	1.50		0.464	0.474	5.00	0.576	pCi/L		03/31/25 19:07	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-09 MW-18D

Lab Sample ID: 240-219708-9

Date Collected: 02/27/25 13:01

Matrix: Water

Date Received: 03/01/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.9		0.10	0.057	mg/L		03/03/25 14:00	03/05/25 20:23	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 18:33	1
Arsenic	ND		0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 18:33	1
Barium	0.028		0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 18:33	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 18:33	1
Cadmium	ND		0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 18:33	1
Cobalt	0.00017	J B	0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 18:33	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 18:33	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 18:33	1
Molybdenum	0.069		0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 18:33	1
Nickel	0.0040		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 18:33	1
Lead	ND		0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 18:33	1
Antimony	ND		0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 18:33	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 18:33	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 18:33	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 18:33	1
Calcium	77		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 18:33	1
Magnesium	15		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 18:33	1
Lithium	0.077		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 18:33	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.7		0.10	0.013	mg/L		03/25/25 14:42	03/26/25 16:32	1
Zinc	0.0015	J	0.0070	0.00093	mg/L		03/25/25 14:42	03/26/25 16:32	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	250		33	33	mg/L			03/07/25 09:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	290		5.0	2.6	mg/L			03/08/25 02:36	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			03/08/25 02:36	1
Total Dissolved Solids (SM 2540 C-2020)	620		10	7.8	mg/L			03/06/25 14:42	1
Total Suspended Solids (SM 2540D-2020)	1.3	J	4.0	0.40	mg/L			03/05/25 10:43	1
Chloride (EPA 300.0-1993 R2.1)	37		1.0	0.13	mg/L			03/05/25 23:47	1
Fluoride (EPA 300.0-1993 R2.1)	0.91		0.050	0.024	mg/L			03/05/25 23:47	1
Sulfate (EPA 300.0-1993 R2.1)	200		1.0	0.35	mg/L			03/05/25 23:47	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-09 MW-18D

Lab Sample ID: 240-219708-9

Date Collected: 02/27/25 13:01

Matrix: Water

Date Received: 03/01/25 08:00

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	0.341		0.178	0.181	1.00	0.237	pCi/L	03/06/25 07:45	03/31/25 22:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					03/06/25 07:45	03/31/25 22:12	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	0.0971	U	0.352	0.352	1.00	0.629	pCi/L	03/06/25 07:47	03/28/25 14:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					03/06/25 07:47	03/28/25 14:10	1
Y Carrier	81.5		30 - 110					03/06/25 07:47	03/28/25 14:10	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	0.439	U	0.394	0.396	5.00	0.629	pCi/L		03/31/25 19:07	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-10 MWT-17A

Lab Sample ID: 240-219708-10

Date Collected: 02/27/25 09:28

Matrix: Water

Date Received: 03/01/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.4		0.10	0.057	mg/L		03/03/25 14:00	03/05/25 20:27	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 18:35	1
Arsenic	0.00095	J	0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 18:35	1
Barium	0.038		0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 18:35	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 18:35	1
Cadmium	ND		0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 18:35	1
Cobalt	ND		0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 18:35	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 18:35	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 18:35	1
Molybdenum	0.016		0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 18:35	1
Nickel	0.014		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 18:35	1
Lead	ND		0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 18:35	1
Antimony	ND		0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 18:35	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 18:35	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 18:35	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 18:35	1
Calcium	240		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 18:35	1
Magnesium	70		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 18:35	1
Lithium	0.053		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 18:35	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	6.2		0.10	0.013	mg/L		03/25/25 14:42	03/26/25 16:35	1
Zinc	0.0015	J	0.0070	0.00093	mg/L		03/25/25 14:42	03/26/25 16:35	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	880		33	33	mg/L			03/07/25 09:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	250		5.0	2.6	mg/L			03/08/25 02:42	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			03/08/25 02:42	1
Total Dissolved Solids (SM 2540 C-2020)	1300		20	16	mg/L			03/06/25 10:24	1
Total Suspended Solids (SM 2540D-2020)	15		4.0	0.40	mg/L			03/05/25 10:43	1
Chloride (EPA 300.0-1993 R2.1)	67		1.0	0.13	mg/L			03/06/25 01:12	1
Fluoride (EPA 300.0-1993 R2.1)	0.22		0.050	0.024	mg/L			03/06/25 01:12	1
Sulfate (EPA 300.0-1993 R2.1)	640		5.0	1.7	mg/L			03/06/25 01:33	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-10 MWT-17A

Lab Sample ID: 240-219708-10

Date Collected: 02/27/25 09:28

Matrix: Water

Date Received: 03/01/25 08:00

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	0.139	U	0.107	0.108	1.00	0.150	pCi/L	03/06/25 07:45	03/31/25 22:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					03/06/25 07:45	03/31/25 22:05	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	0.105	U	0.347	0.347	1.00	0.619	pCi/L	03/06/25 07:47	03/28/25 14:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					03/06/25 07:47	03/28/25 14:10	1
Y Carrier	81.1		30 - 110					03/06/25 07:47	03/28/25 14:10	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	0.245	U	0.363	0.363	5.00	0.619	pCi/L		03/31/25 19:07	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-11 FB

Lab Sample ID: 240-219708-11

Date Collected: 02/27/25 07:45

Matrix: Water

Date Received: 03/01/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		03/03/25 14:00	03/05/25 20:31	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 18:38	1
Arsenic	ND		0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 18:38	1
Barium	ND		0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 18:38	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 18:38	1
Cadmium	ND		0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 18:38	1
Cobalt	ND		0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 18:38	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 18:38	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 18:38	1
Molybdenum	ND		0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 18:38	1
Nickel	ND		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 18:38	1
Lead	ND		0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 18:38	1
Antimony	ND		0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 18:38	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 18:38	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 18:38	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 18:38	1
Calcium	ND		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 18:38	1
Magnesium	ND		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 18:38	1
Lithium	ND		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 18:38	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		03/25/25 14:42	03/26/25 16:38	1
Zinc	ND		0.0070	0.00093	mg/L		03/25/25 14:42	03/26/25 16:38	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			03/07/25 09:02	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			03/08/25 02:47	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			03/08/25 02:47	1
Total Dissolved Solids (SM 2540 C-2020)	ND		10	7.8	mg/L			03/06/25 10:24	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			03/05/25 10:43	1
Chloride (EPA 300.0-1993 R2.1)	ND		1.0	0.13	mg/L			03/06/25 01:54	1
Fluoride (EPA 300.0-1993 R2.1)	ND		0.050	0.024	mg/L			03/06/25 01:54	1
Sulfate (EPA 300.0-1993 R2.1)	ND		1.0	0.35	mg/L			03/06/25 01:54	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-11 FB

Lab Sample ID: 240-219708-11

Date Collected: 02/27/25 07:45

Matrix: Water

Date Received: 03/01/25 08:00

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	-0.0606	U	0.0263	0.0269	1.00	0.122	pCi/L	03/06/25 07:45	03/31/25 22:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					03/06/25 07:45	03/31/25 22:05	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	0.172	U	0.307	0.308	1.00	0.529	pCi/L	03/06/25 07:47	03/28/25 14:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					03/06/25 07:47	03/28/25 14:10	1
Y Carrier	74.8		30 - 110					03/06/25 07:47	03/28/25 14:10	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	0.172	U	0.308	0.309	5.00	0.529	pCi/L		03/31/25 19:07	1

Tracer/Carrier Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

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)					
240-219708-1	L502194-01 MW-17A	81.8					
240-219708-2	L502194-02 MW-17B	75.3					
240-219708-3	L502194-03 MW-17C	91.1					
240-219708-4	L502194-04 MW-17D	88.5					
240-219708-5	L502194-05 MW-17E	88.3					
240-219708-6	L502194-06 MW-18A	79.2					
240-219708-7	L502194-07 MW-18B	85.9					
240-219708-8	L502194-08 MW-18C	83.9					
240-219708-9	L502194-09 MW-18D	80.2					
240-219708-10	L502194-10 MWT-17A	80.2					
240-219708-11	L502194-11 FB	94.8					
LCS 160-706363/2-A	Lab Control Sample	87.5					
MB 160-706363/1-A	Method Blank	83.3					
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)				
240-219708-1	L502194-01 MW-17A	81.8	77.4				
240-219708-2	L502194-02 MW-17B	75.3	75.9				
240-219708-3	L502194-03 MW-17C	91.1	74.0				
240-219708-4	L502194-04 MW-17D	88.5	80.4				
240-219708-5	L502194-05 MW-17E	88.3	75.5				
240-219708-6	L502194-06 MW-18A	79.2	77.4				
240-219708-7	L502194-07 MW-18B	85.9	79.3				
240-219708-8	L502194-08 MW-18C	83.9	79.3				
240-219708-9	L502194-09 MW-18D	80.2	81.5				
240-219708-10	L502194-10 MWT-17A	80.2	81.1				
240-219708-11	L502194-11 FB	94.8	74.8				
LCS 160-706366/2-A	Lab Control Sample	87.5	80.0				
MB 160-706366/1-A	Method Blank	83.3	79.6				
Tracer/Carrier Legend							
Ba = Ba Carrier							
Y = Y Carrier							

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Method: 200.7 R4.4-1994 - Metals (ICP)

Lab Sample ID: MB 240-646631/1-A
Matrix: Water
Analysis Batch: 646866

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 646631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		03/03/25 14:00	03/04/25 19:55	1

Lab Sample ID: LCS 240-646631/2-A
Matrix: Water
Analysis Batch: 646866

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 646631

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.13		mg/L		113	85 - 115

Lab Sample ID: 240-219708-1 MS
Matrix: Water
Analysis Batch: 646866

Client Sample ID: L502194-01 MW-17A
Prep Type: Total Recoverable
Prep Batch: 646631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	4.7		1.00	5.92	4 ^+	mg/L		124	70 - 130

Lab Sample ID: 240-219708-1 MSD
Matrix: Water
Analysis Batch: 646866

Client Sample ID: L502194-01 MW-17A
Prep Type: Total Recoverable
Prep Batch: 646631

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	4.7		1.00	5.93	4 ^+	mg/L		125	70 - 130	0	20

Lab Sample ID: 240-219708-4 MS
Matrix: Water
Analysis Batch: 647025

Client Sample ID: L502194-04 MW-17D
Prep Type: Total Recoverable
Prep Batch: 646631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2.5		1.00	3.69		mg/L		120	70 - 130

Lab Sample ID: 240-219708-4 MSD
Matrix: Water
Analysis Batch: 647025

Client Sample ID: L502194-04 MW-17D
Prep Type: Total Recoverable
Prep Batch: 646631

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	2.5		1.00	3.68		mg/L		120	70 - 130	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 350-5773/7-A
Matrix: Water
Analysis Batch: 5820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		03/25/25 11:52	03/26/25 15:04	1
Zinc	ND		0.0070	0.00093	mg/L		03/25/25 11:52	03/26/25 15:04	1

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 350-5773/8-A

Matrix: Water

Analysis Batch: 5820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5773

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron			20.0	20.1		mg/L		100	85 - 115
Zinc			1.00	1.03		mg/L		103	85 - 115

Lab Sample ID: 240-219708-1 MS

Matrix: Water

Analysis Batch: 5820

Client Sample ID: L502194-01 MW-17A

Prep Type: Total/NA

Prep Batch: 5773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	6.5		20.0	27.8		mg/L		107	70 - 130
Zinc	0.0013	J	1.00	1.03		mg/L		103	70 - 130

Lab Sample ID: 240-219708-1 MSD

Matrix: Water

Analysis Batch: 5820

Client Sample ID: L502194-01 MW-17A

Prep Type: Total/NA

Prep Batch: 5773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	6.5		20.0	27.7		mg/L		106	70 - 130	0	20
Zinc	0.0013	J	1.00	1.03		mg/L		103	70 - 130	0	20

Lab Sample ID: 240-219708-7 MS

Matrix: Water

Analysis Batch: 5820

Client Sample ID: L502194-07 MW-18B

Prep Type: Total/NA

Prep Batch: 5773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	2.3		20.0	22.8		mg/L		102	70 - 130
Zinc	ND		1.00	1.04		mg/L		104	70 - 130

Lab Sample ID: 240-219708-7 MSD

Matrix: Water

Analysis Batch: 5820

Client Sample ID: L502194-07 MW-18B

Prep Type: Total/NA

Prep Batch: 5773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	2.3		20.0	22.2		mg/L		100	70 - 130	3	20
Zinc	ND		1.00	1.00		mg/L		100	70 - 130	4	20

Method: 200.8-1994 R5.4 - Metals (ICP/MS)

Lab Sample ID: MB 240-646631/1-A

Matrix: Water

Analysis Batch: 647046

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 646631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		03/03/25 14:00	03/05/25 15:06	1
Arsenic	ND		0.0050	0.00075	mg/L		03/03/25 14:00	03/05/25 15:06	1
Barium	ND		0.0050	0.00077	mg/L		03/03/25 14:00	03/05/25 15:06	1
Beryllium	ND		0.0010	0.00027	mg/L		03/03/25 14:00	03/05/25 15:06	1
Cadmium	ND		0.0010	0.000077	mg/L		03/03/25 14:00	03/05/25 15:06	1
Cobalt	0.0000960	J	0.0010	0.000086	mg/L		03/03/25 14:00	03/05/25 15:06	1
Chromium	ND		0.0050	0.0012	mg/L		03/03/25 14:00	03/05/25 15:06	1
Copper	ND		0.0020	0.0017	mg/L		03/03/25 14:00	03/05/25 15:06	1

Eurofins Cleveland

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-646631/1-A

Matrix: Water

Analysis Batch: 647046

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 646631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.0050	0.0011	mg/L		03/03/25 14:00	03/05/25 15:06	1
Nickel	ND		0.0020	0.0015	mg/L		03/03/25 14:00	03/05/25 15:06	1
Lead	0.000455	J	0.0010	0.00045	mg/L		03/03/25 14:00	03/05/25 15:06	1
Antimony	ND		0.0020	0.00057	mg/L		03/03/25 14:00	03/05/25 15:06	1
Selenium	ND		0.0050	0.00089	mg/L		03/03/25 14:00	03/05/25 15:06	1
Thallium	ND		0.0010	0.00051	mg/L		03/03/25 14:00	03/05/25 15:06	1
Vanadium	ND		0.0050	0.00082	mg/L		03/03/25 14:00	03/05/25 15:06	1
Calcium	ND		1.0	0.25	mg/L		03/03/25 14:00	03/05/25 15:06	1
Magnesium	ND		1.0	0.061	mg/L		03/03/25 14:00	03/05/25 15:06	1
Lithium	ND		0.0080	0.0034	mg/L		03/03/25 14:00	03/05/25 15:06	1

Lab Sample ID: LCS 240-646631/3-A

Matrix: Water

Analysis Batch: 647046

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 646631

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.100	0.0964		mg/L		96	85 - 115
Arsenic	1.00	0.988		mg/L		99	85 - 115
Barium	1.00	0.954		mg/L		95	85 - 115
Beryllium	0.500	0.471		mg/L		94	85 - 115
Cadmium	0.500	0.471		mg/L		94	85 - 115
Cobalt	0.500	0.470		mg/L		94	85 - 115
Chromium	0.500	0.485		mg/L		97	85 - 115
Copper	0.500	0.481		mg/L		96	85 - 115
Molybdenum	0.500	0.472		mg/L		94	85 - 115
Nickel	0.500	0.479		mg/L		96	85 - 115
Lead	0.500	0.499		mg/L		100	85 - 115
Antimony	0.100	0.101		mg/L		101	85 - 115
Selenium	1.00	0.960		mg/L		96	85 - 115
Thallium	1.00	1.03		mg/L		103	85 - 115
Vanadium	0.500	0.489		mg/L		98	85 - 115
Calcium	25.0	24.6		mg/L		98	85 - 115
Magnesium	25.0	25.0		mg/L		100	85 - 115
Lithium	0.500	0.447		mg/L		89	85 - 115

Lab Sample ID: 240-219708-1 MS

Matrix: Water

Analysis Batch: 647046

Client Sample ID: L502194-01 MW-17A

Prep Type: Total Recoverable

Prep Batch: 646631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.100	0.100		mg/L		100	70 - 130
Arsenic	0.0011	J	1.00	1.06		mg/L		106	70 - 130
Barium	0.038		1.00	1.06		mg/L		102	70 - 130
Beryllium	ND		0.500	0.499		mg/L		100	70 - 130
Cadmium	ND		0.500	0.487		mg/L		97	70 - 130
Cobalt	ND		0.500	0.495		mg/L		99	70 - 130
Chromium	ND		0.500	0.513		mg/L		103	70 - 130
Copper	ND		0.500	0.504		mg/L		101	70 - 130
Molybdenum	0.018		0.500	0.533		mg/L		103	70 - 130

Eurofins Cleveland

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-219708-1 MS

Matrix: Water

Analysis Batch: 647046

Client Sample ID: L502194-01 MW-17A

Prep Type: Total Recoverable

Prep Batch: 646631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.014		0.500	0.516		mg/L		100	70 - 130
Lead	ND		0.500	0.535		mg/L		107	70 - 130
Antimony	ND		0.100	0.105		mg/L		105	70 - 130
Selenium	ND		1.00	0.989		mg/L		99	70 - 130
Thallium	ND		1.00	1.10		mg/L		110	70 - 130
Vanadium	ND		0.500	0.519		mg/L		104	70 - 130
Calcium	240		25.0	268	4	mg/L		114	70 - 130
Magnesium	70		25.0	96.0		mg/L		103	70 - 130
Lithium	0.053		0.500	0.524		mg/L		94	70 - 130

Lab Sample ID: 240-219708-1 MSD

Matrix: Water

Analysis Batch: 647046

Client Sample ID: L502194-01 MW-17A

Prep Type: Total Recoverable

Prep Batch: 646631

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		0.100	0.101		mg/L		101	70 - 130	1	20
Arsenic	0.0011	J	1.00	1.06		mg/L		106	70 - 130	0	20
Barium	0.038		1.00	1.07		mg/L		103	70 - 130	1	20
Beryllium	ND		0.500	0.500		mg/L		100	70 - 130	0	20
Cadmium	ND		0.500	0.496		mg/L		99	70 - 130	2	20
Cobalt	ND		0.500	0.493		mg/L		99	70 - 130	0	20
Chromium	ND		0.500	0.514		mg/L		103	70 - 130	0	20
Copper	ND		0.500	0.500		mg/L		100	70 - 130	1	20
Molybdenum	0.018		0.500	0.532		mg/L		103	70 - 130	0	20
Nickel	0.014		0.500	0.515		mg/L		100	70 - 130	0	20
Lead	ND		0.500	0.541		mg/L		108	70 - 130	1	20
Antimony	ND		0.100	0.107		mg/L		107	70 - 130	2	20
Selenium	ND		1.00	1.00		mg/L		100	70 - 130	2	20
Thallium	ND		1.00	1.11		mg/L		111	70 - 130	1	20
Vanadium	ND		0.500	0.519		mg/L		104	70 - 130	0	20
Calcium	240		25.0	265	4	mg/L		101	70 - 130	1	20
Magnesium	70		25.0	95.6		mg/L		101	70 - 130	0	20
Lithium	0.053		0.500	0.529		mg/L		95	70 - 130	1	20

Lab Sample ID: 240-219708-4 MS

Matrix: Water

Analysis Batch: 647046

Client Sample ID: L502194-04 MW-17D

Prep Type: Total Recoverable

Prep Batch: 646631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.100	0.0992		mg/L		99	70 - 130
Arsenic	0.0013	J	1.00	1.03		mg/L		103	70 - 130
Barium	0.044		1.00	1.05		mg/L		101	70 - 130
Beryllium	ND		0.500	0.503		mg/L		101	70 - 130
Cadmium	0.00017	J	0.500	0.490		mg/L		98	70 - 130
Cobalt	ND		0.500	0.490		mg/L		98	70 - 130
Chromium	ND		0.500	0.512		mg/L		102	70 - 130
Copper	ND		0.500	0.500		mg/L		100	70 - 130
Molybdenum	0.0048	J	0.500	0.509		mg/L		101	70 - 130
Nickel	ND		0.500	0.498		mg/L		100	70 - 130

Eurofins Cleveland

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-219708-4 MS

Matrix: Water

Analysis Batch: 647046

Client Sample ID: L502194-04 MW-17D

Prep Type: Total Recoverable

Prep Batch: 646631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		0.500	0.528		mg/L		106	70 - 130
Antimony	0.00059	J	0.100	0.105		mg/L		104	70 - 130
Selenium	ND		1.00	0.980		mg/L		98	70 - 130
Thallium	ND		1.00	1.10		mg/L		110	70 - 130
Vanadium	ND		0.500	0.516		mg/L		103	70 - 130
Calcium	50		25.0	75.6		mg/L		102	70 - 130
Magnesium	16		25.0	42.7		mg/L		105	70 - 130
Lithium	0.032		0.500	0.516		mg/L		97	70 - 130

Lab Sample ID: 240-219708-4 MSD

Matrix: Water

Analysis Batch: 647046

Client Sample ID: L502194-04 MW-17D

Prep Type: Total Recoverable

Prep Batch: 646631

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		0.100	0.0990		mg/L		99	70 - 130	0	20
Arsenic	0.0013	J	1.00	1.03		mg/L		103	70 - 130	0	20
Barium	0.044		1.00	1.07		mg/L		102	70 - 130	2	20
Beryllium	ND		0.500	0.502		mg/L		100	70 - 130	0	20
Cadmium	0.00017	J	0.500	0.498		mg/L		100	70 - 130	2	20
Cobalt	ND		0.500	0.491		mg/L		98	70 - 130	0	20
Chromium	ND		0.500	0.521		mg/L		104	70 - 130	2	20
Copper	ND		0.500	0.504		mg/L		101	70 - 130	1	20
Molybdenum	0.0048	J	0.500	0.511		mg/L		101	70 - 130	0	20
Nickel	ND		0.500	0.502		mg/L		100	70 - 130	1	20
Lead	ND		0.500	0.535		mg/L		107	70 - 130	1	20
Antimony	0.00059	J	0.100	0.106		mg/L		105	70 - 130	1	20
Selenium	ND		1.00	1.00		mg/L		100	70 - 130	2	20
Thallium	ND		1.00	1.11		mg/L		111	70 - 130	1	20
Vanadium	ND		0.500	0.524		mg/L		105	70 - 130	2	20
Calcium	50		25.0	76.0		mg/L		104	70 - 130	0	20
Magnesium	16		25.0	43.1		mg/L		107	70 - 130	1	20
Lithium	0.032		0.500	0.507		mg/L		95	70 - 130	2	20

Method: 245.1-1994 R3.0 - Mercury (CVAA)

Lab Sample ID: MB 240-646633/1-A

Matrix: Water

Analysis Batch: 646914

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 646633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		03/03/25 14:00	03/04/25 15:29	1

Lab Sample ID: LCS 240-646633/2-A

Matrix: Water

Analysis Batch: 646914

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 646633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00529		mg/L		106	85 - 115

Eurofins Cleveland

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Method: 245.1-1994 R3.0 - Mercury (CVAA) (Continued)

Lab Sample ID: 240-219708-1 MS

Matrix: Water

Analysis Batch: 646914

Client Sample ID: L502194-01 MW-17A

Prep Type: Total/NA

Prep Batch: 646633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.00113		mg/L		113	70 - 130

Lab Sample ID: 240-219708-1 MSD

Matrix: Water

Analysis Batch: 646914

Client Sample ID: L502194-01 MW-17A

Prep Type: Total/NA

Prep Batch: 646633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00113		mg/L		113	70 - 130	0	20

Lab Sample ID: 240-219708-4 MS

Matrix: Water

Analysis Batch: 646914

Client Sample ID: L502194-04 MW-17D

Prep Type: Total/NA

Prep Batch: 646633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.00115		mg/L		115	70 - 130

Lab Sample ID: 240-219708-4 MSD

Matrix: Water

Analysis Batch: 646914

Client Sample ID: L502194-04 MW-17D

Prep Type: Total/NA

Prep Batch: 646633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00111		mg/L		111	70 - 130	3	20

Method: 2320 B-2021 - Alkalinity

Lab Sample ID: MB 240-647464/46

Matrix: Water

Analysis Batch: 647464

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		5.0	2.6	mg/L			03/07/25 23:05	1
Carbonate Alkalinity as CaCO3	ND		5.0	2.6	mg/L			03/07/25 23:05	1

Lab Sample ID: MB 240-647464/66

Matrix: Water

Analysis Batch: 647464

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		5.0	2.6	mg/L			03/08/25 00:41	1
Carbonate Alkalinity as CaCO3	ND		5.0	2.6	mg/L			03/08/25 00:41	1

Lab Sample ID: MB 240-647464/86

Matrix: Water

Analysis Batch: 647464

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		5.0	2.6	mg/L			03/08/25 02:17	1
Carbonate Alkalinity as CaCO3	ND		5.0	2.6	mg/L			03/08/25 02:17	1

Eurofins Cleveland

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Method: 2540 C-2020 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-647107/1

Matrix: Water

Analysis Batch: 647107

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	7.8	mg/L			03/06/25 10:24	1

Lab Sample ID: LCS 240-647107/2

Matrix: Water

Analysis Batch: 647107

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	569	473		mg/L		83	80 - 120

Lab Sample ID: 240-219708-4 DU

Matrix: Water

Analysis Batch: 647107

Client Sample ID: L502194-04 MW-17D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	290		271		mg/L		5	20

Lab Sample ID: MB 240-647166/1

Matrix: Water

Analysis Batch: 647166

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	7.8	mg/L			03/06/25 14:42	1

Lab Sample ID: LCS 240-647166/2

Matrix: Water

Analysis Batch: 647166

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	569	549		mg/L		96	80 - 120

Method: 2540D-2020 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-646765/1

Matrix: Water

Analysis Batch: 646765

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	0.40	mg/L			03/04/25 07:47	1

Lab Sample ID: LCS 240-646765/2

Matrix: Water

Analysis Batch: 646765

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	26.1	25.0	J	mg/L		96	64 - 120

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Method: 2540D-2020 - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: MB 240-646968/1

Matrix: Water

Analysis Batch: 646968

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	0.40	mg/L			03/05/25 10:43	1

Lab Sample ID: LCS 240-646968/2

Matrix: Water

Analysis Batch: 646968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	26.1	18.0	J	mg/L		69	64 - 120

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 240-646882/3

Matrix: Water

Analysis Batch: 646882

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.13	mg/L			03/05/25 16:23	1
Fluoride	ND		0.050	0.024	mg/L			03/05/25 16:23	1
Sulfate	ND		1.0	0.35	mg/L			03/05/25 16:23	1

Lab Sample ID: LCS 240-646882/4

Matrix: Water

Analysis Batch: 646882

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.5		mg/L		99	90 - 110
Fluoride	2.50	2.57		mg/L		103	90 - 110
Sulfate	50.0	50.9		mg/L		102	90 - 110

Lab Sample ID: 240-219708-11 MS

Matrix: Water

Analysis Batch: 646882

Client Sample ID: L502194-11 FB

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		50.0	47.0		mg/L		94	80 - 120
Fluoride	ND		2.50	2.42		mg/L		97	80 - 120
Sulfate	ND		50.0	47.9		mg/L		96	80 - 120

Lab Sample ID: 240-219708-11 MSD

Matrix: Water

Analysis Batch: 646882

Client Sample ID: L502194-11 FB

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.0	48.0		mg/L		96	80 - 120	2	15
Fluoride	ND		2.50	2.47		mg/L		99	80 - 120	2	15
Sulfate	ND		50.0	48.9		mg/L		98	80 - 120	2	15

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-706363/1-A

Matrix: Water

Analysis Batch: 710059

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 706363

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01387	U	0.0870	0.0870	1.00	0.172	pCi/L	03/06/25 07:45	03/31/25 22:11	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		30 - 110					03/06/25 07:45	03/31/25 22:11	1

Lab Sample ID: LCS 160-706363/2-A

Matrix: Water

Analysis Batch: 710059

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 706363

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	9.107		1.05	1.00	0.205	pCi/L	95	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	87.5		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-706366/1-A

Matrix: Water

Analysis Batch: 709818

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 706366

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2816	U	0.367	0.368	1.00	0.612	pCi/L	03/06/25 07:47	03/28/25 14:04	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		30 - 110					03/06/25 07:47	03/28/25 14:04	1
Y Carrier	79.6		30 - 110					03/06/25 07:47	03/28/25 14:04	1

Lab Sample ID: LCS 160-706366/2-A

Matrix: Water

Analysis Batch: 709818

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 706366

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		7.98	10.26		1.38	1.00	0.506	pCi/L	128	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	87.5		30 - 110							
Y Carrier	80.0		30 - 110							

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Metals

Prep Batch: 5773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total/NA	Water	200.8	
240-219708-2	L502194-02 MW-17B	Total/NA	Water	200.8	
240-219708-3	L502194-03 MW-17C	Total/NA	Water	200.8	
240-219708-4	L502194-04 MW-17D	Total/NA	Water	200.8	
240-219708-5	L502194-05 MW-17E	Total/NA	Water	200.8	
240-219708-6	L502194-06 MW-18A	Total/NA	Water	200.8	
240-219708-7	L502194-07 MW-18B	Total/NA	Water	200.8	
240-219708-8	L502194-08 MW-18C	Total/NA	Water	200.8	
240-219708-9	L502194-09 MW-18D	Total/NA	Water	200.8	
240-219708-10	L502194-10 MWT-17A	Total/NA	Water	200.8	
240-219708-11	L502194-11 FB	Total/NA	Water	200.8	
MB 350-5773/7-A	Method Blank	Total/NA	Water	200.8	
LCS 350-5773/8-A	Lab Control Sample	Total/NA	Water	200.8	
240-219708-1 MS	L502194-01 MW-17A	Total/NA	Water	200.8	
240-219708-1 MSD	L502194-01 MW-17A	Total/NA	Water	200.8	
240-219708-7 MS	L502194-07 MW-18B	Total/NA	Water	200.8	
240-219708-7 MSD	L502194-07 MW-18B	Total/NA	Water	200.8	

Analysis Batch: 5820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total/NA	Water	200.8	5773
240-219708-2	L502194-02 MW-17B	Total/NA	Water	200.8	5773
240-219708-3	L502194-03 MW-17C	Total/NA	Water	200.8	5773
240-219708-4	L502194-04 MW-17D	Total/NA	Water	200.8	5773
240-219708-5	L502194-05 MW-17E	Total/NA	Water	200.8	5773
240-219708-6	L502194-06 MW-18A	Total/NA	Water	200.8	5773
240-219708-7	L502194-07 MW-18B	Total/NA	Water	200.8	5773
240-219708-8	L502194-08 MW-18C	Total/NA	Water	200.8	5773
240-219708-9	L502194-09 MW-18D	Total/NA	Water	200.8	5773
240-219708-10	L502194-10 MWT-17A	Total/NA	Water	200.8	5773
240-219708-11	L502194-11 FB	Total/NA	Water	200.8	5773
MB 350-5773/7-A	Method Blank	Total/NA	Water	200.8	5773
LCS 350-5773/8-A	Lab Control Sample	Total/NA	Water	200.8	5773
240-219708-1 MS	L502194-01 MW-17A	Total/NA	Water	200.8	5773
240-219708-1 MSD	L502194-01 MW-17A	Total/NA	Water	200.8	5773
240-219708-7 MS	L502194-07 MW-18B	Total/NA	Water	200.8	5773
240-219708-7 MSD	L502194-07 MW-18B	Total/NA	Water	200.8	5773

Analysis Batch: 5844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-2	L502194-02 MW-17B	Total/NA	Water	200.8	5773

Prep Batch: 646631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total Recoverable	Water	200.7	
240-219708-2	L502194-02 MW-17B	Total Recoverable	Water	200.7	
240-219708-3	L502194-03 MW-17C	Total Recoverable	Water	200.7	
240-219708-4	L502194-04 MW-17D	Total Recoverable	Water	200.7	
240-219708-5	L502194-05 MW-17E	Total Recoverable	Water	200.7	
240-219708-6	L502194-06 MW-18A	Total Recoverable	Water	200.7	
240-219708-7	L502194-07 MW-18B	Total Recoverable	Water	200.7	

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Metals (Continued)

Prep Batch: 646631 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-8	L502194-08 MW-18C	Total Recoverable	Water	200.7	
240-219708-9	L502194-09 MW-18D	Total Recoverable	Water	200.7	
240-219708-10	L502194-10 MWT-17A	Total Recoverable	Water	200.7	
240-219708-11	L502194-11 FB	Total Recoverable	Water	200.7	
MB 240-646631/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 240-646631/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 240-646631/3-A	Lab Control Sample	Total Recoverable	Water	200.7	
240-219708-1 MS	L502194-01 MW-17A	Total Recoverable	Water	200.7	
240-219708-1 MS	L502194-01 MW-17A	Total Recoverable	Water	200.7	
240-219708-1 MSD	L502194-01 MW-17A	Total Recoverable	Water	200.7	
240-219708-1 MSD	L502194-01 MW-17A	Total Recoverable	Water	200.7	
240-219708-4 MS	L502194-04 MW-17D	Total Recoverable	Water	200.7	
240-219708-4 MS	L502194-04 MW-17D	Total Recoverable	Water	200.7	
240-219708-4 MSD	L502194-04 MW-17D	Total Recoverable	Water	200.7	
240-219708-4 MSD	L502194-04 MW-17D	Total Recoverable	Water	200.7	

Prep Batch: 646633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total/NA	Water	245.1-1994 R3.0	
240-219708-2	L502194-02 MW-17B	Total/NA	Water	245.1-1994 R3.0	
240-219708-3	L502194-03 MW-17C	Total/NA	Water	245.1-1994 R3.0	
240-219708-4	L502194-04 MW-17D	Total/NA	Water	245.1-1994 R3.0	
240-219708-5	L502194-05 MW-17E	Total/NA	Water	245.1-1994 R3.0	
240-219708-6	L502194-06 MW-18A	Total/NA	Water	245.1-1994 R3.0	
240-219708-7	L502194-07 MW-18B	Total/NA	Water	245.1-1994 R3.0	
240-219708-8	L502194-08 MW-18C	Total/NA	Water	245.1-1994 R3.0	
240-219708-9	L502194-09 MW-18D	Total/NA	Water	245.1-1994 R3.0	
240-219708-10	L502194-10 MWT-17A	Total/NA	Water	245.1-1994 R3.0	
240-219708-11	L502194-11 FB	Total/NA	Water	245.1-1994 R3.0	
MB 240-646633/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	
LCS 240-646633/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	
240-219708-1 MS	L502194-01 MW-17A	Total/NA	Water	245.1-1994 R3.0	
240-219708-1 MSD	L502194-01 MW-17A	Total/NA	Water	245.1-1994 R3.0	
240-219708-4 MS	L502194-04 MW-17D	Total/NA	Water	245.1-1994 R3.0	
240-219708-4 MSD	L502194-04 MW-17D	Total/NA	Water	245.1-1994 R3.0	

Analysis Batch: 646866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total Recoverable	Water	200.7 R4.4-1994	646631
MB 240-646631/1-A	Method Blank	Total Recoverable	Water	200.7 R4.4-1994	646631
LCS 240-646631/2-A	Lab Control Sample	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-1 MS	L502194-01 MW-17A	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-1 MSD	L502194-01 MW-17A	Total Recoverable	Water	200.7 R4.4-1994	646631

Analysis Batch: 646914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-2	L502194-02 MW-17B	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-3	L502194-03 MW-17C	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-4	L502194-04 MW-17D	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-5	L502194-05 MW-17E	Total/NA	Water	245.1-1994 R3.0	646633

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Metals (Continued)

Analysis Batch: 646914 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-6	L502194-06 MW-18A	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-7	L502194-07 MW-18B	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-8	L502194-08 MW-18C	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-9	L502194-09 MW-18D	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-10	L502194-10 MWT-17A	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-11	L502194-11 FB	Total/NA	Water	245.1-1994 R3.0	646633
MB 240-646633/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	646633
LCS 240-646633/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-1 MS	L502194-01 MW-17A	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-1 MSD	L502194-01 MW-17A	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-4 MS	L502194-04 MW-17D	Total/NA	Water	245.1-1994 R3.0	646633
240-219708-4 MSD	L502194-04 MW-17D	Total/NA	Water	245.1-1994 R3.0	646633

Analysis Batch: 647025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-2	L502194-02 MW-17B	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-3	L502194-03 MW-17C	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-4	L502194-04 MW-17D	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-5	L502194-05 MW-17E	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-6	L502194-06 MW-18A	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-7	L502194-07 MW-18B	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-8	L502194-08 MW-18C	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-9	L502194-09 MW-18D	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-10	L502194-10 MWT-17A	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-11	L502194-11 FB	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-4 MS	L502194-04 MW-17D	Total Recoverable	Water	200.7 R4.4-1994	646631
240-219708-4 MSD	L502194-04 MW-17D	Total Recoverable	Water	200.7 R4.4-1994	646631

Analysis Batch: 647046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-2	L502194-02 MW-17B	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-3	L502194-03 MW-17C	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-4	L502194-04 MW-17D	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-5	L502194-05 MW-17E	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-6	L502194-06 MW-18A	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-7	L502194-07 MW-18B	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-8	L502194-08 MW-18C	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-9	L502194-09 MW-18D	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-10	L502194-10 MWT-17A	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-11	L502194-11 FB	Total Recoverable	Water	200.8-1994 R5.4	646631
MB 240-646631/1-A	Method Blank	Total Recoverable	Water	200.8-1994 R5.4	646631
LCS 240-646631/3-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-1 MS	L502194-01 MW-17A	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-1 MSD	L502194-01 MW-17A	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-4 MS	L502194-04 MW-17D	Total Recoverable	Water	200.8-1994 R5.4	646631
240-219708-4 MSD	L502194-04 MW-17D	Total Recoverable	Water	200.8-1994 R5.4	646631

Analysis Batch: 647231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total Recoverable	Water	2340 B-2021	

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Metals (Continued)

Analysis Batch: 647231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-2	L502194-02 MW-17B	Total Recoverable	Water	2340 B-2021	
240-219708-3	L502194-03 MW-17C	Total Recoverable	Water	2340 B-2021	
240-219708-4	L502194-04 MW-17D	Total Recoverable	Water	2340 B-2021	
240-219708-5	L502194-05 MW-17E	Total Recoverable	Water	2340 B-2021	
240-219708-6	L502194-06 MW-18A	Total Recoverable	Water	2340 B-2021	
240-219708-7	L502194-07 MW-18B	Total Recoverable	Water	2340 B-2021	
240-219708-8	L502194-08 MW-18C	Total Recoverable	Water	2340 B-2021	
240-219708-9	L502194-09 MW-18D	Total Recoverable	Water	2340 B-2021	
240-219708-10	L502194-10 MWT-17A	Total Recoverable	Water	2340 B-2021	
240-219708-11	L502194-11 FB	Total Recoverable	Water	2340 B-2021	

General Chemistry

Analysis Batch: 646765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total/NA	Water	2540D-2020	
240-219708-2	L502194-02 MW-17B	Total/NA	Water	2540D-2020	
240-219708-3	L502194-03 MW-17C	Total/NA	Water	2540D-2020	
240-219708-4	L502194-04 MW-17D	Total/NA	Water	2540D-2020	
240-219708-5	L502194-05 MW-17E	Total/NA	Water	2540D-2020	
MB 240-646765/1	Method Blank	Total/NA	Water	2540D-2020	
LCS 240-646765/2	Lab Control Sample	Total/NA	Water	2540D-2020	

Analysis Batch: 646882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total/NA	Water	300.0-1993 R2.1	
240-219708-1	L502194-01 MW-17A	Total/NA	Water	300.0-1993 R2.1	
240-219708-2	L502194-02 MW-17B	Total/NA	Water	300.0-1993 R2.1	
240-219708-2	L502194-02 MW-17B	Total/NA	Water	300.0-1993 R2.1	
240-219708-3	L502194-03 MW-17C	Total/NA	Water	300.0-1993 R2.1	
240-219708-3	L502194-03 MW-17C	Total/NA	Water	300.0-1993 R2.1	
240-219708-4	L502194-04 MW-17D	Total/NA	Water	300.0-1993 R2.1	
240-219708-5	L502194-05 MW-17E	Total/NA	Water	300.0-1993 R2.1	
240-219708-6	L502194-06 MW-18A	Total/NA	Water	300.0-1993 R2.1	
240-219708-7	L502194-07 MW-18B	Total/NA	Water	300.0-1993 R2.1	
240-219708-7	L502194-07 MW-18B	Total/NA	Water	300.0-1993 R2.1	
240-219708-8	L502194-08 MW-18C	Total/NA	Water	300.0-1993 R2.1	
240-219708-8	L502194-08 MW-18C	Total/NA	Water	300.0-1993 R2.1	
240-219708-9	L502194-09 MW-18D	Total/NA	Water	300.0-1993 R2.1	
240-219708-10	L502194-10 MWT-17A	Total/NA	Water	300.0-1993 R2.1	
240-219708-10	L502194-10 MWT-17A	Total/NA	Water	300.0-1993 R2.1	
240-219708-11	L502194-11 FB	Total/NA	Water	300.0-1993 R2.1	
MB 240-646882/3	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 240-646882/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
240-219708-11 MS	L502194-11 FB	Total/NA	Water	300.0-1993 R2.1	
240-219708-11 MSD	L502194-11 FB	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 646968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-6	L502194-06 MW-18A	Total/NA	Water	2540D-2020	
240-219708-7	L502194-07 MW-18B	Total/NA	Water	2540D-2020	

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

General Chemistry (Continued)

Analysis Batch: 646968 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-8	L502194-08 MW-18C	Total/NA	Water	2540D-2020	
240-219708-9	L502194-09 MW-18D	Total/NA	Water	2540D-2020	
240-219708-10	L502194-10 MWT-17A	Total/NA	Water	2540D-2020	
240-219708-11	L502194-11 FB	Total/NA	Water	2540D-2020	
MB 240-646968/1	Method Blank	Total/NA	Water	2540D-2020	
LCS 240-646968/2	Lab Control Sample	Total/NA	Water	2540D-2020	

Analysis Batch: 647107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total/NA	Water	2540 C-2020	
240-219708-2	L502194-02 MW-17B	Total/NA	Water	2540 C-2020	
240-219708-3	L502194-03 MW-17C	Total/NA	Water	2540 C-2020	
240-219708-4	L502194-04 MW-17D	Total/NA	Water	2540 C-2020	
240-219708-5	L502194-05 MW-17E	Total/NA	Water	2540 C-2020	
240-219708-6	L502194-06 MW-18A	Total/NA	Water	2540 C-2020	
240-219708-7	L502194-07 MW-18B	Total/NA	Water	2540 C-2020	
240-219708-8	L502194-08 MW-18C	Total/NA	Water	2540 C-2020	
240-219708-10	L502194-10 MWT-17A	Total/NA	Water	2540 C-2020	
240-219708-11	L502194-11 FB	Total/NA	Water	2540 C-2020	
MB 240-647107/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-647107/2	Lab Control Sample	Total/NA	Water	2540 C-2020	
240-219708-4 DU	L502194-04 MW-17D	Total/NA	Water	2540 C-2020	

Analysis Batch: 647166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-9	L502194-09 MW-18D	Total/NA	Water	2540 C-2020	
MB 240-647166/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-647166/2	Lab Control Sample	Total/NA	Water	2540 C-2020	

Analysis Batch: 647464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total/NA	Water	2320 B-2021	
240-219708-2	L502194-02 MW-17B	Total/NA	Water	2320 B-2021	
240-219708-3	L502194-03 MW-17C	Total/NA	Water	2320 B-2021	
240-219708-4	L502194-04 MW-17D	Total/NA	Water	2320 B-2021	
240-219708-5	L502194-05 MW-17E	Total/NA	Water	2320 B-2021	
240-219708-6	L502194-06 MW-18A	Total/NA	Water	2320 B-2021	
240-219708-7	L502194-07 MW-18B	Total/NA	Water	2320 B-2021	
240-219708-8	L502194-08 MW-18C	Total/NA	Water	2320 B-2021	
240-219708-9	L502194-09 MW-18D	Total/NA	Water	2320 B-2021	
240-219708-10	L502194-10 MWT-17A	Total/NA	Water	2320 B-2021	
240-219708-11	L502194-11 FB	Total/NA	Water	2320 B-2021	
MB 240-647464/46	Method Blank	Total/NA	Water	2320 B-2021	
MB 240-647464/66	Method Blank	Total/NA	Water	2320 B-2021	
MB 240-647464/86	Method Blank	Total/NA	Water	2320 B-2021	

Rad

Prep Batch: 706363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total/NA	Water	PrecSep-21	

Eurofins Cleveland

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Rad (Continued)

Prep Batch: 706363 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-2	L502194-02 MW-17B	Total/NA	Water	PrecSep-21	
240-219708-3	L502194-03 MW-17C	Total/NA	Water	PrecSep-21	
240-219708-4	L502194-04 MW-17D	Total/NA	Water	PrecSep-21	
240-219708-5	L502194-05 MW-17E	Total/NA	Water	PrecSep-21	
240-219708-6	L502194-06 MW-18A	Total/NA	Water	PrecSep-21	
240-219708-7	L502194-07 MW-18B	Total/NA	Water	PrecSep-21	
240-219708-8	L502194-08 MW-18C	Total/NA	Water	PrecSep-21	
240-219708-9	L502194-09 MW-18D	Total/NA	Water	PrecSep-21	
240-219708-10	L502194-10 MWT-17A	Total/NA	Water	PrecSep-21	
240-219708-11	L502194-11 FB	Total/NA	Water	PrecSep-21	
MB 160-706363/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-706363/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 706366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219708-1	L502194-01 MW-17A	Total/NA	Water	PrecSep_0	
240-219708-2	L502194-02 MW-17B	Total/NA	Water	PrecSep_0	
240-219708-3	L502194-03 MW-17C	Total/NA	Water	PrecSep_0	
240-219708-4	L502194-04 MW-17D	Total/NA	Water	PrecSep_0	
240-219708-5	L502194-05 MW-17E	Total/NA	Water	PrecSep_0	
240-219708-6	L502194-06 MW-18A	Total/NA	Water	PrecSep_0	
240-219708-7	L502194-07 MW-18B	Total/NA	Water	PrecSep_0	
240-219708-8	L502194-08 MW-18C	Total/NA	Water	PrecSep_0	
240-219708-9	L502194-09 MW-18D	Total/NA	Water	PrecSep_0	
240-219708-10	L502194-10 MWT-17A	Total/NA	Water	PrecSep_0	
240-219708-11	L502194-11 FB	Total/NA	Water	PrecSep_0	
MB 160-706366/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-706366/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-01 MW-17A

Lab Sample ID: 240-219708-1

Date Collected: 02/27/25 09:28

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	646866	AJC	EET CLE	03/04/25 20:04
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		1	5820	CW	EET SSM	03/26/25 15:24
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	647046	S4FJ	EET CLE	03/05/25 17:26
Total Recoverable	Analysis	2340 B-2021		1	647231	KLC	EET CLE	03/07/25 08:56
Total/NA	Prep	245.1-1994 R3.0			646633	BN	EET CLE	03/03/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	646914	GEV	EET CLE	03/04/25 15:36
Total/NA	Analysis	2320 B-2021		1	647464	PQD2	EET CLE	03/08/25 01:33
Total/NA	Analysis	2540 C-2020		1	647107	TAV2	EET CLE	03/06/25 10:24
Total/NA	Analysis	2540D-2020		1	646765	TAV2	EET CLE	03/04/25 07:47
Total/NA	Analysis	300.0-1993 R2.1		1	646882	JMR	EET CLE	03/05/25 18:09
Total/NA	Analysis	300.0-1993 R2.1		5	646882	JMR	EET CLE	03/05/25 18:30
Total/NA	Prep	PrecSep-21			706363	OGC	EET SL	03/06/25 07:45
Total/NA	Analysis	903.0		1	710059	FLC	EET SL	03/31/25 22:11
Total/NA	Prep	PrecSep_0			706366	OGC	EET SL	03/06/25 07:47
Total/NA	Analysis	904.0		1	709817	FLC	EET SL	03/28/25 14:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	710138	EMH	EET SL	03/31/25 19:07

Client Sample ID: L502194-02 MW-17B

Lab Sample ID: 240-219708-2

Date Collected: 02/27/25 10:59

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	647025	AJC	EET CLE	03/05/25 19:49
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		1	5820	CW	EET SSM	03/26/25 16:10
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		5	5844	CW	EET SSM	03/27/25 12:49
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	647046	S4FJ	EET CLE	03/05/25 18:10
Total Recoverable	Analysis	2340 B-2021		1	647231	KLC	EET CLE	03/07/25 09:02
Total/NA	Prep	245.1-1994 R3.0			646633	BN	EET CLE	03/03/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	646914	GEV	EET CLE	03/04/25 16:05
Total/NA	Analysis	2320 B-2021		1	647464	PQD2	EET CLE	03/08/25 01:39
Total/NA	Analysis	2540 C-2020		1	647107	TAV2	EET CLE	03/06/25 10:24
Total/NA	Analysis	2540D-2020		1	646765	TAV2	EET CLE	03/04/25 07:47
Total/NA	Analysis	300.0-1993 R2.1		1	646882	JMR	EET CLE	03/05/25 18:51
Total/NA	Analysis	300.0-1993 R2.1		5	646882	JMR	EET CLE	03/05/25 19:12
Total/NA	Prep	PrecSep-21			706363	OGC	EET SL	03/06/25 07:45
Total/NA	Analysis	903.0		1	710059	FLC	EET SL	03/31/25 22:11

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-02 MW-17B

Lab Sample ID: 240-219708-2

Date Collected: 02/27/25 10:59

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep_0			706366	OGC	EET SL	03/06/25 07:47
Total/NA	Analysis	904.0		1	709817	FLC	EET SL	03/28/25 14:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	710138	EMH	EET SL	03/31/25 19:07

Client Sample ID: L502194-03 MW-17C

Lab Sample ID: 240-219708-3

Date Collected: 02/27/25 12:37

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	647025	AJC	EET CLE	03/05/25 19:53
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		1	5820	CW	EET SSM	03/26/25 16:13
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	647046	S4FJ	EET CLE	03/05/25 18:13
Total Recoverable	Analysis	2340 B-2021		1	647231	KLC	EET CLE	03/07/25 09:02
Total/NA	Prep	245.1-1994 R3.0			646633	BN	EET CLE	03/03/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	646914	GEV	EET CLE	03/04/25 16:06
Total/NA	Analysis	2320 B-2021		1	647464	PQD2	EET CLE	03/08/25 01:44
Total/NA	Analysis	2540 C-2020		1	647107	TAV2	EET CLE	03/06/25 10:24
Total/NA	Analysis	2540D-2020		1	646765	TAV2	EET CLE	03/04/25 07:47
Total/NA	Analysis	300.0-1993 R2.1		1	646882	JMR	EET CLE	03/05/25 19:33
Total/NA	Analysis	300.0-1993 R2.1		5	646882	JMR	EET CLE	03/05/25 20:37
Total/NA	Prep	PrecSep-21			706363	OGC	EET SL	03/06/25 07:45
Total/NA	Analysis	903.0		1	710059	FLC	EET SL	03/31/25 22:11
Total/NA	Prep	PrecSep_0			706366	OGC	EET SL	03/06/25 07:47
Total/NA	Analysis	904.0		1	709817	FLC	EET SL	03/28/25 14:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	710138	EMH	EET SL	03/31/25 19:07

Client Sample ID: L502194-04 MW-17D

Lab Sample ID: 240-219708-4

Date Collected: 02/27/25 13:59

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	647025	AJC	EET CLE	03/05/25 18:50
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		1	5820	CW	EET SSM	03/26/25 16:16
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	647046	S4FJ	EET CLE	03/05/25 17:34
Total Recoverable	Analysis	2340 B-2021		1	647231	KLC	EET CLE	03/07/25 09:02
Total/NA	Prep	245.1-1994 R3.0			646633	BN	EET CLE	03/03/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	646914	GEV	EET CLE	03/04/25 15:41
Total/NA	Analysis	2320 B-2021		1	647464	PQD2	EET CLE	03/08/25 01:49

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Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-04 MW-17D

Lab Sample ID: 240-219708-4

Date Collected: 02/27/25 13:59

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540 C-2020		1	647107	TAV2	EET CLE	03/06/25 10:24
Total/NA	Analysis	2540D-2020		1	646765	TAV2	EET CLE	03/04/25 07:47
Total/NA	Analysis	300.0-1993 R2.1		1	646882	JMR	EET CLE	03/05/25 20:58
Total/NA	Prep	PrecSep-21			706363	OGC	EET SL	03/06/25 07:45
Total/NA	Analysis	903.0		1	710059	FLC	EET SL	03/31/25 22:11
Total/NA	Prep	PrecSep_0			706366	OGC	EET SL	03/06/25 07:47
Total/NA	Analysis	904.0		1	709817	FLC	EET SL	03/28/25 14:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	710138	EMH	EET SL	03/31/25 19:07

Client Sample ID: L502194-05 MW-17E

Lab Sample ID: 240-219708-5

Date Collected: 02/27/25 15:13

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	647025	AJC	EET CLE	03/05/25 19:57
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		1	5820	CW	EET SSM	03/26/25 16:24
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	647046	S4FJ	EET CLE	03/05/25 18:16
Total Recoverable	Analysis	2340 B-2021		1	647231	KLC	EET CLE	03/07/25 09:02
Total/NA	Prep	245.1-1994 R3.0			646633	BN	EET CLE	03/03/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	646914	GEV	EET CLE	03/04/25 16:08
Total/NA	Analysis	2320 B-2021		1	647464	PQD2	EET CLE	03/08/25 02:05
Total/NA	Analysis	2540 C-2020		1	647107	TAV2	EET CLE	03/06/25 10:24
Total/NA	Analysis	2540D-2020		1	646765	TAV2	EET CLE	03/04/25 07:47
Total/NA	Analysis	300.0-1993 R2.1		1	646882	JMR	EET CLE	03/05/25 21:19
Total/NA	Prep	PrecSep-21			706363	OGC	EET SL	03/06/25 07:45
Total/NA	Analysis	903.0		1	710059	FLC	EET SL	03/31/25 22:11
Total/NA	Prep	PrecSep_0			706366	OGC	EET SL	03/06/25 07:47
Total/NA	Analysis	904.0		1	709817	FLC	EET SL	03/28/25 14:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	710138	EMH	EET SL	03/31/25 19:07

Client Sample ID: L502194-06 MW-18A

Lab Sample ID: 240-219708-6

Date Collected: 02/27/25 08:53

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	647025	AJC	EET CLE	03/05/25 20:02
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		1	5820	CW	EET SSM	03/26/25 16:27
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	647046	S4FJ	EET CLE	03/05/25 18:19

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Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-06 MW-18A

Lab Sample ID: 240-219708-6

Date Collected: 02/27/25 08:53

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Analysis	2340 B-2021		1	647231	KLC	EET CLE	03/07/25 09:02
Total/NA	Prep	245.1-1994 R3.0			646633	BN	EET CLE	03/03/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	646914	GEV	EET CLE	03/04/25 16:10
Total/NA	Analysis	2320 B-2021		1	647464	PQD2	EET CLE	03/08/25 02:21
Total/NA	Analysis	2540 C-2020		1	647107	TAV2	EET CLE	03/06/25 10:24
Total/NA	Analysis	2540D-2020		1	646968	PQD2	EET CLE	03/05/25 10:43
Total/NA	Analysis	300.0-1993 R2.1		1	646882	JMR	EET CLE	03/05/25 21:40
Total/NA	Prep	PrecSep-21			706363	OGC	EET SL	03/06/25 07:45
Total/NA	Analysis	903.0		1	710059	FLC	EET SL	03/31/25 22:11
Total/NA	Prep	PrecSep_0			706366	OGC	EET SL	03/06/25 07:47
Total/NA	Analysis	904.0		1	709819	FLC	EET SL	03/28/25 14:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	710138	EMH	EET SL	03/31/25 19:07

Client Sample ID: L502194-07 MW-18B

Lab Sample ID: 240-219708-7

Date Collected: 02/27/25 10:13

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	647025	AJC	EET CLE	03/05/25 20:06
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		1	5820	CW	EET SSM	03/26/25 15:40
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	647046	S4FJ	EET CLE	03/05/25 18:21
Total Recoverable	Analysis	2340 B-2021		1	647231	KLC	EET CLE	03/07/25 09:02
Total/NA	Prep	245.1-1994 R3.0			646633	BN	EET CLE	03/03/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	646914	GEV	EET CLE	03/04/25 16:12
Total/NA	Analysis	2320 B-2021		1	647464	PQD2	EET CLE	03/08/25 02:26
Total/NA	Analysis	2540 C-2020		1	647107	TAV2	EET CLE	03/06/25 10:24
Total/NA	Analysis	2540D-2020		1	646968	PQD2	EET CLE	03/05/25 10:43
Total/NA	Analysis	300.0-1993 R2.1		1	646882	JMR	EET CLE	03/05/25 22:22
Total/NA	Analysis	300.0-1993 R2.1		5	646882	JMR	EET CLE	03/05/25 22:44
Total/NA	Prep	PrecSep-21			706363	OGC	EET SL	03/06/25 07:45
Total/NA	Analysis	903.0		1	710059	FLC	EET SL	03/31/25 22:11
Total/NA	Prep	PrecSep_0			706366	OGC	EET SL	03/06/25 07:47
Total/NA	Analysis	904.0		1	709819	FLC	EET SL	03/28/25 14:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	710138	EMH	EET SL	03/31/25 19:07

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-08 MW-18C

Lab Sample ID: 240-219708-8

Date Collected: 02/27/25 11:41

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	647025	AJC	EET CLE	03/05/25 20:19
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		1	5820	CW	EET SSM	03/26/25 16:30
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	647046	S4FJ	EET CLE	03/05/25 18:30
Total Recoverable	Analysis	2340 B-2021		1	647231	KLC	EET CLE	03/07/25 09:02
Total/NA	Prep	245.1-1994 R3.0			646633	BN	EET CLE	03/03/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	646914	GEV	EET CLE	03/04/25 16:17
Total/NA	Analysis	2320 B-2021		1	647464	PQD2	EET CLE	03/08/25 02:31
Total/NA	Analysis	2540 C-2020		1	647107	TAV2	EET CLE	03/06/25 10:24
Total/NA	Analysis	2540D-2020		1	646968	PQD2	EET CLE	03/05/25 10:43
Total/NA	Analysis	300.0-1993 R2.1		1	646882	JMR	EET CLE	03/05/25 23:05
Total/NA	Analysis	300.0-1993 R2.1		5	646882	JMR	EET CLE	03/05/25 23:26
Total/NA	Prep	PrecSep-21			706363	OGC	EET SL	03/06/25 07:45
Total/NA	Analysis	903.0		1	710059	FLC	EET SL	03/31/25 22:12
Total/NA	Prep	PrecSep_0			706366	OGC	EET SL	03/06/25 07:47
Total/NA	Analysis	904.0		1	709819	FLC	EET SL	03/28/25 14:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	710138	EMH	EET SL	03/31/25 19:07

Client Sample ID: L502194-09 MW-18D

Lab Sample ID: 240-219708-9

Date Collected: 02/27/25 13:01

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	647025	AJC	EET CLE	03/05/25 20:23
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		1	5820	CW	EET SSM	03/26/25 16:32
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	647046	S4FJ	EET CLE	03/05/25 18:33
Total Recoverable	Analysis	2340 B-2021		1	647231	KLC	EET CLE	03/07/25 09:02
Total/NA	Prep	245.1-1994 R3.0			646633	BN	EET CLE	03/03/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	646914	GEV	EET CLE	03/04/25 16:18
Total/NA	Analysis	2320 B-2021		1	647464	PQD2	EET CLE	03/08/25 02:36
Total/NA	Analysis	2540 C-2020		1	647166	TAV2	EET CLE	03/06/25 14:42
Total/NA	Analysis	2540D-2020		1	646968	PQD2	EET CLE	03/05/25 10:43
Total/NA	Analysis	300.0-1993 R2.1		1	646882	JMR	EET CLE	03/05/25 23:47
Total/NA	Prep	PrecSep-21			706363	OGC	EET SL	03/06/25 07:45
Total/NA	Analysis	903.0		1	710059	FLC	EET SL	03/31/25 22:12
Total/NA	Prep	PrecSep_0			706366	OGC	EET SL	03/06/25 07:47
Total/NA	Analysis	904.0		1	709819	FLC	EET SL	03/28/25 14:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	710138	EMH	EET SL	03/31/25 19:07

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Client Sample ID: L502194-10 MWT-17A

Lab Sample ID: 240-219708-10

Date Collected: 02/27/25 09:28

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	647025	AJC	EET CLE	03/05/25 20:27
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		1	5820	CW	EET SSM	03/26/25 16:35
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	647046	S4FJ	EET CLE	03/05/25 18:35
Total Recoverable	Analysis	2340 B-2021		1	647231	KLC	EET CLE	03/07/25 09:02
Total/NA	Prep	245.1-1994 R3.0			646633	BN	EET CLE	03/03/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	646914	GEV	EET CLE	03/04/25 16:20
Total/NA	Analysis	2320 B-2021		1	647464	PQD2	EET CLE	03/08/25 02:42
Total/NA	Analysis	2540 C-2020		1	647107	TAV2	EET CLE	03/06/25 10:24
Total/NA	Analysis	2540D-2020		1	646968	PQD2	EET CLE	03/05/25 10:43
Total/NA	Analysis	300.0-1993 R2.1		1	646882	JMR	EET CLE	03/06/25 01:12
Total/NA	Analysis	300.0-1993 R2.1		5	646882	JMR	EET CLE	03/06/25 01:33
Total/NA	Prep	PrecSep-21			706363	OGC	EET SL	03/06/25 07:45
Total/NA	Analysis	903.0		1	710061	FLC	EET SL	03/31/25 22:05
Total/NA	Prep	PrecSep_0			706366	OGC	EET SL	03/06/25 07:47
Total/NA	Analysis	904.0		1	709819	FLC	EET SL	03/28/25 14:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	710138	EMH	EET SL	03/31/25 19:07

Client Sample ID: L502194-11 FB

Lab Sample ID: 240-219708-11

Date Collected: 02/27/25 07:45

Matrix: Water

Date Received: 03/01/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	647025	AJC	EET CLE	03/05/25 20:31
Total/NA	Prep	200.8			5773	CW	EET SSM	03/25/25 14:42
Total/NA	Analysis	200.8		1	5820	CW	EET SSM	03/26/25 16:38
Total Recoverable	Prep	200.7			646631	BN	EET CLE	03/03/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	647046	S4FJ	EET CLE	03/05/25 18:38
Total Recoverable	Analysis	2340 B-2021		1	647231	KLC	EET CLE	03/07/25 09:02
Total/NA	Prep	245.1-1994 R3.0			646633	BN	EET CLE	03/03/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	646914	GEV	EET CLE	03/04/25 16:22
Total/NA	Analysis	2320 B-2021		1	647464	PQD2	EET CLE	03/08/25 02:47
Total/NA	Analysis	2540 C-2020		1	647107	TAV2	EET CLE	03/06/25 10:24
Total/NA	Analysis	2540D-2020		1	646968	PQD2	EET CLE	03/05/25 10:43
Total/NA	Analysis	300.0-1993 R2.1		1	646882	JMR	EET CLE	03/06/25 01:54
Total/NA	Prep	PrecSep-21			706363	OGC	EET SL	03/06/25 07:45
Total/NA	Analysis	903.0		1	710061	FLC	EET SL	03/31/25 22:05
Total/NA	Prep	PrecSep_0			706366	OGC	EET SL	03/06/25 07:47
Total/NA	Analysis	904.0		1	709819	FLC	EET SL	03/28/25 14:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	710138	EMH	EET SL	03/31/25 19:07

Eurofins Cleveland

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566
EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4062	02-27-26

Laboratory: Eurofins Seattle Specialty Metals

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	20-004	02-19-27
ANAB	Dept. of Defense ELAP	L2236	01-19-27
ANAB	Dept. of Energy	L2236.01	01-19-27
ANAB	ISO/IEC 17025	L2236	01-19-27
California	State	2954	07-07-25
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-25
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-04-26
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

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	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-08-25
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	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
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	06-30-25
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
MI - RadChem Recognition	State	9005	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Cleveland

Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-219708-1

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	06-30-25
Oklahoma	NELAP	9997	08-31-25
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

Chain of Custody

Return Samples to: Eurofins Michigan
38855 Hills Tech Dr.
Farmington Hills, MI 48331

Contains Rush Work: ☐

Contains Methods That May Expire Soon: ☒

Client Contact Info		Project Info		Methods and Bottles	
Name: Jennifer Caporale Address : 1110 South Pennsylvania Address 2: City, State Zip: Lansing, Michigan 48901 Phone: 517-702-6482 Email: Jennifer.Caporale@LBWL.com Deliverables:		Company: Lansing Board of Water & Light Purchase Order: Purchase Order not required Work Order: Requested TAT: Project Number: 24034575 Sample State: MI Special Instructions: Need EDD and Level 4 report.		Project Manager: Howell, Leslie Project Reference: Sampler: Jennifer Caporale Description: Erickson Projects Site Name: Erickson Projects	

Samples																										
#	Sample Name	Type	Matrix	Date/Time (24hr)	MS / MSD	Instructions/Comments	Lat/Long	245.1 Mercury	2540C_Calcd Total Dissolved Solids	2320B Bicarbonate & Carbonate Alkalinity	200.8_CWA Custom List 2: 2-3 Metals	2540D Solids, Total Suspended (TSS)	200.7 Total Boron	SM2340B Total Hardness (as CaCO3) by calculation	903.0 Standard Target List	Ra226, 228AS_P Combined Radium-226 and Radium-228	200.8 Project List (19)	300.0_28D Chloride, Fluoride & Sulfate	904.0 Standard Target List	Plastic 500ml - with Nitric Acid	Plastic 60 mL - unpreserved	Plastic 250ml - with Nitric Acid	Plastic 500ml - unpreserved	Plastic 1 liter - Nitric Acid	Plastic 1 liter - unpreserved	Total Bottles For Sample
1	L502194-01 MW-17A	Grab	Water	02/27/25 09:28				X	X	X	X	X	X	X	X	X	X	X	X	1	2	1	1	2	1	8
2	L502194-02 MW-17B	Grab	Water	02/27/25 10:59				X	X	X	X	X	X	X	X	X	X	X	X	1	2	1	1	2	1	8
3	L502194-03 MW-17C	Grab	Water	02/27/25 12:37				X	X	X	X	X	X	X	X	X	X	X	X	1	2	1	1	2	1	8
4	L502194-04 MW-17D	Grab	Water	02/27/25 13:59				X	X	X	X	X	X	X	X	X	X	X	X	1	2	1	1	2	1	8
5	L502194-05 MW-17E	Grab	Water	02/27/25 15:13				X	X	X	X	X	X	X	X	X	X	X	X	1	2	1	1	2	1	8
6	L502194-06 MW-18A	Grab	Water	02/27/25 08:53				X	X	X	X	X	X	X	X	X	X	X	X	1	2	1	1	2	1	8
7	L502194-07 MW-18B	Grab	Water	02/27/25 10:13				X	X	X	X	X	X	X	X	X	X	X	X	1	2	1	1	2	1	8
8	L502194-08 MW-18C	Grab	Water	02/27/25 11:41				X	X	X	X	X	X	X	X	X	X	X	X	1	2	1	1	2	1	8
9	L502194-09 MW-18D	Grab	Water	02/27/25 13:01				X	X	X	X	X	X	X	X	X	X	X	X	1	2	1	1	2	1	8
10	L502194-10 MWT-17A	Grab	Water	02/27/25 09:28				X	X	X	X	X	X	X	X	X	X	X	X	1	2	1	1	2	1	8
11	L502194-11 FB	Grab	Water	02/27/25 07:45				X	X	X	X	X	X	X	X	X	X	X	X	1	2	1	1	2	1	8



Possible Hazards : Unknown

Sample Disposal (A fee may be assessed, if samples are retained longer than 1 month) : Disposal by Lab

Custody History (All dates and times have been converted to the Eastern time zone and are in 24 Hr format.)

eCOC Submitted By:	Date/Time	Samples Relinquished By:	Date/Time.	JMOROSKO	3/1/25	OSW
Jennifer Caporale	02/28/25 10:04	Jennifer Caporale	02/28/25 10:04			

Coolers								
Cooler Name	Cooler Description	QR/Barcode	Uncorrected Cooler Temperature (?C)	Corrected Cooler Temperature	Thermometer ID	Temperature Checked By	Cooler Ice Type	Cooler Packing Type
MIC20250228A001								
MIC20250228A001								
MIC20250228A003								
MIC20250228A003								

Eurofins - Cleveland Sample Receipt Form/Narrative		Login # : _____	
Barberton Facility			
Client <u>Lansing Board of Water</u> Site Name _____		Cooler unpacked by: <u>Martin</u>	
Cooler Received on <u>Wed 3/1/25</u> <u>10:12</u> Opened on <u>3/1/25</u>			
FedEx 1 st Grd Exp <u>UPS FAS</u> <u>Wagmont</u> Client Drop Off Eurofins Courier Other _____			
Receipt After-hours Drop-off Date/Time _____		Storage Location _____	
Eurofins Cooler # <u>EL</u> Foam Box Client Cooler Box Other _____			
Packing material used. <u>Bubble Wrap</u> Foam Plastic Bag None Other _____			
COOLANT: <u>Water</u> Blue Ice Dry Ice Water None _____			
☒ See Multiple Cooler Form			
1 Cooler temperature upon receipt IR GUN # <u>21</u> (CF <u>41</u> °C) Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C			
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>			
-Were the seals on the outside of the cooler(s) signed & dated? <u>Yes</u> ☒ No ☐ NA			
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <u>Yes</u> ☒ No ☐ NA			
-Were tamper/custody seals intact and uncompromised? <u>Yes</u> ☒ No ☐ NA			
3 Shippers' packing slip attached to the cooler(s)? <u>Yes</u> ☒ No ☐ NA			
4 Did custody papers accompany the sample(s)? <u>Yes</u> ☒ No ☐ NA			
5 Were the custody papers relinquished & signed in the appropriate place? <u>Yes</u> ☒ No ☐ NA			
6 Was/were the person(s) who collected the samples clearly identified on the COC? <u>Yes</u> ☒ No ☐ NA			
7 Did all bottles arrive in good condition (Unbroken)? <u>Yes</u> ☒ No ☐ NA			
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? <u>Yes</u> ☒ No ☐ NA			
9 For each sample, does the COC specify preservatives <u>(YN)</u> , # of containers <u>(YN)</u> , and sample type of grab/comp <u>(YN)</u> ? <u>Yes</u> ☒ No ☐ NA			
10 Were correct bottle(s) used for the test(s) indicated? <u>Yes</u> ☒ No ☐ NA			
11 Sufficient quantity received to perform indicated analyses? <u>Yes</u> ☒ No ☐ NA			
12 Are these work share samples and all listed on the COC? <u>Yes</u> ☒ No ☐ NA			
13 Were all preserved sample(s) at the correct pH upon receipt? <u>Yes</u> ☒ No ☐ NA			
14 Were VOAAs on the COC? <u>Yes</u> ☒ No ☐ NA			
15 Were air bubbles >6 mm in any VOA vials? <u>Yes</u> ☒ No ☐ NA			
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ <u>Yes</u> ☒ No ☐ NA			
17 Was a LL Hg or Me Hg trip blank present? <u>Yes</u> ☒ No ☐ NA			
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____			
Concerning _____			
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page		Samples processed by: _____	
19. SAMPLE CONDITION			
Sample(s) _____ were received after the recommended holding time had expired.			
Sample(s) _____ were received in a broken container			
Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)			
20. SAMPLE PRESERVATION			
Sample(s) _____ were further preserved in the laboratory			
Time preserved _____ Preservative(s) added/Lot number(s) _____			
VOA Sample Preservation - Date/Time VOAs Frozen. _____			

Temperature readings

Client Sample ID	Lab ID	Container Type	Container pH	Preservation Temp	Preservation Added	Preservation Lot Number
L502194-01 MW-17A	240-219708-I-1	Plastic 60 mL - unpreserved				
L502194-01 MW-17A	240-219708-I-1	Plastic 60 mL - unpreserved				
L502194-01 MW-17A	240-219708-K-1	Plastic 250ml - with Nitric Acid	<2			
L502194-01 MW-17A	240-219708-L-1	Plastic 500ml - unpreserved				
L502194-01 MW-17A	240-219708-M-1	Plastic 500ml - with Nitric Acid	<2			
L502194-01 MW-17A	240-219708-N-1	Plastic 1 liter - unpreserved				
L502194-01 MW-17A	240-219708-O-1	Plastic 1 liter - Nitric Acid				
L502194-01 MW-17A	240-219708-P-1	Plastic 1 liter - Nitric Acid				
L502194-02 MW-17B	240-219708-I-2	Plastic 60 mL - unpreserved				
L502194-02 MW-17B	240-219708-J-2	Plastic 60 mL - unpreserved				
L502194-02 MW-17B	240-219708-K-2	Plastic 250ml - with Nitric Acid	<2			
L502194-02 MW-17B	240-219708-L-2	Plastic 500ml - unpreserved				
L502194-02 MW-17B	240-219708-M-2	Plastic 500ml - with Nitric Acid	<2			
L502194-02 MW-17B	240-219708-N-2	Plastic 1 liter - unpreserved				
L502194-02 MW-17B	240-219708-O-2	Plastic 1 liter - Nitric Acid				
L502194-02 MW-17B	240-219708-P-2	Plastic 1 liter - Nitric Acid				
L502194-03 MW-17C	240-219708-I-3	Plastic 60 mL - unpreserved				
L502194-03 MW-17C	240-219708-J-3	Plastic 60 mL - unpreserved				
L502194-03 MW-17C	240-219708-K-3	Plastic 250ml - with Nitric Acid	<2			
L502194-03 MW-17C	240-219708-L-3	Plastic 500ml - unpreserved				
L502194-03 MW-17C	240-219708-M-3	Plastic 500ml - with Nitric Acid	<2			
L502194-03 MW-17C	240-219708-N-3	Plastic 1 liter - unpreserved				
L502194-03 MW-17C	240-219708-O-3	Plastic 1 liter - Nitric Acid				
L502194-03 MW-17C	240-219708-P-3	Plastic 1 liter - Nitric Acid				
L502194-04 MW-17D	240-219708-I-4	Plastic 60 mL - unpreserved				
L502194-04 MW-17D	240-219708-J-4	Plastic 60 mL - unpreserved				
L502194-04 MW-17D	240-219708-K-4	Plastic 250ml - with Nitric Acid	<2			
L502194-04 MW-17D	240-219708-L-4	Plastic 500ml - unpreserved				
L502194-04 MW-17D	240-219708-M-4	Plastic 500ml - with Nitric Acid	<2			
L502194-04 MW-17D	240-219708-N-4	Plastic 1 liter - unpreserved				
L502194-04 MW-17D	240-219708-O-4	Plastic 1 liter - Nitric Acid				
L502194-04 MW-17D	240-219708-P-4	Plastic 1 liter - Nitric Acid				
L502194-05 MW-17E	240-219708-I-5	Plastic 60 mL - unpreserved				
L502194-05 MW-17E	240-219708-J-5	Plastic 60 mL - unpreserved				
L502194-05 MW-17E	240-219708-K-5	Plastic 250ml - with Nitric Acid	<2			

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservation</u> <u>Temp</u>	<u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
L502194-05 MW-17E	240-219708-L-5	Plastic 500ml - unpreserved				
L502194-05 MW-17E	240-219708-M-5	Plastic 500ml - with Nitric Acid	<2			
L502194-05 MW-17E	240-219708-N-5	Plastic 1 liter - unpreserved				
L502194-05 MW-17E	240-219708-O-5	Plastic 1 liter - Nitric Acid				
L502194-05 MW-17E	240-219708-P-5	Plastic 1 liter - Nitric Acid				
L502194-06 MW-18A	240-219708-L-6	Plastic 60 mL - unpreserved				
L502194-06 MW-18A	240-219708-J-6	Plastic 60 mL - unpreserved				
L502194-06 MW-18A	240-219708-K-6	Plastic 250ml - with Nitric Acid	<2			
L502194-06 MW-18A	240-219708-L-6	Plastic 500ml - unpreserved				
L502194-06 MW-18A	240-219708-M-6	Plastic 500ml - with Nitric Acid	<2			
L502194-06 MW-18A	240-219708-N-6	Plastic 1 liter - unpreserved				
L502194-06 MW-18A	240-219708-O-6	Plastic 1 liter - Nitric Acid				
L502194-06 MW-18A	240-219708-P-6	Plastic 1 liter - Nitric Acid				
L502194-07 MW-18B	240-219708-L-7	Plastic 60 mL - unpreserved				
L502194-07 MW-18B	240-219708-J-7	Plastic 60 mL - unpreserved				
L502194-07 MW-18B	240-219708-K-7	Plastic 250ml - with Nitric Acid	<2			
L502194-07 MW-18B	240-219708-L-7	Plastic 500ml - unpreserved				
L502194-07 MW-18B	240-219708-M-7	Plastic 500ml - with Nitric Acid	<2			
L502194-07 MW-18B	240-219708-N-7	Plastic 1 liter - unpreserved				
L502194-07 MW-18B	240-219708-O-7	Plastic 1 liter - Nitric Acid				
L502194-07 MW-18B	240-219708-P-7	Plastic 1 liter - Nitric Acid				
L502194-08 MW-18C	240-219708-L-8	Plastic 60 mL - unpreserved				
L502194-08 MW-18C	240-219708-J-8	Plastic 60 mL - unpreserved				
L502194-08 MW-18C	240-219708-K-8	Plastic 250ml - with Nitric Acid	<2			
L502194-08 MW-18C	240-219708-L-8	Plastic 500ml - unpreserved				
L502194-08 MW-18C	240-219708-M-8	Plastic 500ml - with Nitric Acid	<2			
L502194-08 MW-18C	240-219708-N-8	Plastic 1 liter - unpreserved				
L502194-08 MW-18C	240-219708-O-8	Plastic 1 liter - Nitric Acid				
L502194-08 MW-18C	240-219708-P-8	Plastic 1 liter - Nitric Acid				
L502194-09 MW-18D	240-219708-L-9	Plastic 60 mL - unpreserved				
L502194-09 MW-18D	240-219708-J-9	Plastic 60 mL - unpreserved				
L502194-09 MW-18D	240-219708-K-9	Plastic 250ml - with Nitric Acid	<2			
L502194-09 MW-18D	240-219708-L-9	Plastic 500ml - unpreserved				
L502194-09 MW-18D	240-219708-M-9	Plastic 500ml - with Nitric Acid	<2			
L502194-09 MW-18D	240-219708-N-9	Plastic 1 liter - unpreserved				
L502194-09 MW-18D	240-219708-O-9	Plastic 1 liter - Nitric Acid				
L502194-09 MW-18D	240-219708-P-9	Plastic 1 liter - Nitric Acid				
L502194-10 MWT-17A	240-219708-L-10	Plastic 60 mL - unpreserved				

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>	<u>Preservation</u>	<u>Preservation</u>
			pH	Temp	Added Lot Number
L502194-10 MWT-17A	240-219708-J-10	Plastic 60 mL - unpreserved	_____	_____	_____
L502194-10 MWT-17A	240-219708-K-10	Plastic 250ml - with Nitric Acid	<2	_____	_____
L502194-10 MWT-17A	240-219708-L-10	Plastic 500ml - unpreserved	_____	_____	_____
L502194-10 MWT-17A	240-219708-M-10	Plastic 500ml - with Nitric Acid	<2	_____	_____
L502194-10 MWT-17A	240-219708-N-10	Plastic 1 liter - unpreserved	_____	_____	_____
L502194-10 MWT-17A	240-219708-O-10	Plastic 1 liter - Nitric Acid	_____	_____	_____
L502194-10 MWT-17A	240-219708-P-10	Plastic 1 liter - Nitric Acid	_____	_____	_____
L502194-11 FB	240-219708-I-11	Plastic 60 mL - unpreserved	_____	_____	_____
L502194-11 FB	240-219708-J-11	Plastic 60 mL - unpreserved	_____	_____	_____
L502194-11 FB	240-219708-K-11	Plastic 250ml - with Nitric Acid	<2	_____	_____
L502194-11 FB	240-219708-L-11	Plastic 500ml - unpreserved	_____	_____	_____
L502194-11 FB	240-219708-M-11	Plastic 500ml - with Nitric Acid	<2	_____	_____
L502194-11 FB	240-219708-N-11	Plastic 1 liter - unpreserved	_____	_____	_____
L502194-11 FB	240-219708-O-11	Plastic 1 liter - Nitric Acid	_____	_____	_____
L502194-11 FB	240-219708-P-11	Plastic 1 liter - Nitric Acid	_____	_____	_____

Chain of Custody

Return Samples to: Eurofins Michigan
38855 Hills Tech Dr.
Farmington Hills, MI 48331

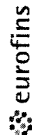
Contains Rush Work: 

Contains Methods That May Expire Soon: ☒

[illegible]

180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax:

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)				Lab PM: Howell, Leslie Carrier Tracking Note(s): N/A COC No: 240-199151.1						
Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc.				E-Mail: Leslie.Howell@et.eurofinsus.com State of Origin: Michigan Page: Page 1 of 2						
Address: 13715 Rider Trail North, Earth City, MO 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: N/A				Job #: 240-219708-1 Preservation Codes: NELAP - Oregon						
Due Date Requested: 3/9/2025 TAT Requested (days): N/A				Analysis Requested						
Project Name: Erickson Projects Project #: 24034575 SSOW#: N/A				Accreditations Required (See note): NELAP - Oregon						
Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Solid, O=Owastatol, B=Blood, A=Aspirin)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSpec, 21 Standard Target List	904.0/PreSpec, 0 Standard Target List	Total Number of Containers	Special Instructions/Note:
L502194-01 MW-17A (240-219708-1)	2/27/25	09:28 Eastern	G	Water			X	X	2	
L502194-02 MW-17B (240-219708-2)	2/27/25	10:59 Eastern	G	Water			X	X	2	
L502194-03 MW-17C (240-219708-3)	2/27/25	12:37 Eastern	G	Water			X	X	2	
L502194-04 MW-17D (240-219708-4)	2/27/25	13:59 Eastern	G	Water			X	X	2	
L502194-05 MW-17E (240-219708-5)	2/27/25	15:13 Eastern	G	Water			X	X	2	
L502194-06 MW-18A (240-219708-6)	2/27/25	08:53 Eastern	G	Water			X	X	2	
L502194-07 MW-18B (240-219708-7)	2/27/25	10:13 Eastern	G	Water			X	X	2	
L502194-08 MW-18C (240-219708-8)	2/27/25	11:41 Eastern	G	Water			X	X	2	
L502194-09 MW-18D (240-219708-9)	2/27/25	13:01 Eastern	G	Water			X	X	2	

Note: Since laboratory accreditation is subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Empty Kit Relinquished by:	
Relinquished by: [Signature] Date/Time: 3/3/25	Received by: [Signature] Date/Time: 0835 MAR 04 2025
Relinquished by: [Signature] Date/Time: 3/3/25	Received by: Cheyenne Forrest Date/Time: 0835 MAR 04 2025
Relinquished by: [Signature] Date/Time: 3/3/25	Received by: Cheyenne Forrest Date/Time: 0835 MAR 04 2025

Custody Seal No.:	
Custody Seal Intact: A Yes A No	Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record

Phone: 330-497-9396 Fax: 330-497-0772

[illegible]

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: N/A		Phone: N/A	Howell, Leslie	N/A	240-200232-1
Shipping/Receiving		Phone: N/A	E-Mail: Leslie.Howell@eurofins.com	State of Origin: Michigan	Page: 1 of 2
Company: Eurofins Environment Testing Northwest		Accreditations Required (See note): NELAP - Oregon		Job #: 240-219708-1	
Address: 5755 8th Street East, Tacoma		Due Date Requested: 3/31/2025		Preservation Codes:	
City: Tacoma		TAT Requested (days): N/A		Analysis Requested	
State, Zip: WA, 98424		PO #: N/A		Other: N/A	
Phone: 253-922-2310(Tel)		WO #: N/A		Project #: 24034575	
Email: N/A		SSOW#: N/A		Erickson Projects	
Site: N/A		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=organic, A=air)
L502194-01 MW-17A (240-219708-1)		2/27/25	09:28 Eastern	G	Water
L502194-02 MW-17B (240-219708-2)		2/27/25	10:59 Eastern	G	Water
L502194-03 MW-17C (240-219708-3)		2/27/25	12:37 Eastern	G	Water
L502194-04 MW-17D (240-219708-4)		2/27/25	13:59 Eastern	G	Water
L502194-05 MW-17E (240-219708-5)		2/27/25	15:13 Eastern	G	Water
L502194-06 MW-18A (240-219708-6)		2/27/25	08:53 Eastern	G	Water
L502194-07 MW-18B (240-219708-7)		2/27/25	10:13 Eastern	G	Water
L502194-08 MW-18C (240-219708-8)		2/27/25	11:41 Eastern	G	Water
L502194-09 MW-18D (240-219708-9)		2/27/25	13:01 Eastern	G	Water
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC as accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said condition.		Sample Disposal (A fee may be assessed if sample is returned to client)		Special Instructions/Note:	
Unconfirmed		Primary Deliverable Rank: 2		Special Instructions/Note: 2	
Possible Hazard Identification		Date: 3/24/25		Company: Eurofins	
Deliverable Requested: I, II, III, IV, Other (Specify)		Date: 3/24/25		Company: Eurofins	
Empty Kit Relinquished by:		Date: 3/24/25		Company: Eurofins	
Relinquished by: [Signature]		Date: 3/24/25		Company: Eurofins	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Environment Testing

eurolins | Environment Testing

4/1/2025

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-219708-1

Login Number: 219708

List Number: 3

Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals

List Creation: 03/25/25 11:45 AM

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.	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	
Is the Field Sampler's name present on COC?	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	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-219708-1

Login Number: 219708

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 03/04/25 01:08 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.	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	
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	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jennifer Caporale
Lansing Board of Water & Light
1110 South Pennsylvania
Lansing, Michigan 48901

Generated 5/27/2025 10:54:15 PM

JOB DESCRIPTION

Erickson Projects

JOB NUMBER

240-223130-1

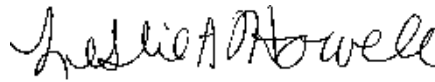
Eurofins Cleveland

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 Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
Leslie Howell, Project Manager I
Leslie.Howell@et.eurofinsus.com
(330)966-9266

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Definitions/Glossary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Lansing Board of Water & Light
Project: Erickson Projects

Job ID: 240-223130-1

Job ID: 240-223130-1

Eurofins Cleveland

Job Narrative 240-223130-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/26/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6°C and 0.8°C.

Metals

Method 200.8_CWA: The method blank for preparation batch 350-6586 contained Zinc above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gas Flow Proportional Counter

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.

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Method Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Method	Method Description	Protocol	Laboratory
200.7 R4.4-1994	Metals (ICP)	EPA	EET CLE
200.8	Metals (ICP/MS)	EPA	EET SSM
200.8-1994 R5.4	Metals (ICP/MS)	EPA	EET CLE
2340 B-2021	Total Hardness (as CaCO3) by calculation	SM	EET CLE
245.1-1994 R3.0	Mercury (CVAA)	EPA	EET CLE
2320 B-2021	Alkalinity	SM	EET CLE
2540 C-2020	Solids, Total Dissolved (TDS)	SM	EET CLE
2540D-2020	Solids, Total Suspended (TSS)	SM	EET CLE
300.0-1993 R2.1	Anions, Ion Chromatography	EPA	EET CLE
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
Pos			
200.7	Preparation, Total Recoverable Metals	EPA	EET CLE
200.8	Preparation, Total Metals	EPA	EET SSM
200.8-1994 R5.4	Preparation, Total Recoverable Metals	EPA	EET CLE
245.1-1994 R3.0	Preparation, Mercury	EPA	EET CLE
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

SM = "Standard Methods For The Examination Of Water And Wastewater"

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-223130-1	L504149-01 MW-18A	Water	04/24/25 09:37	04/26/25 08:00
240-223130-2	L504149-02 MW-18B	Water	04/24/25 10:58	04/26/25 08:00
240-223130-3	L504149-03 MW-18C	Water	04/24/25 12:12	04/26/25 08:00
240-223130-4	L504149-04 MW-18D	Water	04/24/25 13:27	04/26/25 08:00
240-223130-5	L504149-05 MWT-18A	Water	04/24/25 09:37	04/26/25 08:00
240-223130-6	L504149-06 FB	Water	04/24/25 08:24	04/26/25 08:00

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-01 MW-18A

Lab Sample ID: 240-223130-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.79		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.00076	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.042		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.11		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lead	0.00045	J	0.0010	0.00045	mg/L	1		200.8-1994 R5.4	Total Recoverable
Selenium	0.0015	J	0.0050	0.00089	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	90		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	14		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.066		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	1.5	B	0.10	0.013	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	280		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	130		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	510		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	1.3	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	78		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.48		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	170		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L504149-02 MW-18B

Lab Sample ID: 240-223130-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	3.2		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Barium	0.056		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.14		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Nickel	0.0081		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	160		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	31		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.13		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	2.6	B	0.10	0.013	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	540		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	170		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	910		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	1.9	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	87		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.21		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	410		5.0	1.7	mg/L	5		300.0-1993 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-03 MW-18C

Lab Sample ID: 240-223130-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	3.0		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Barium	0.049		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cadmium	0.000096	J	0.0010	0.000077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.00015	J	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.10		0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.0076		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Antimony	0.00067	J	0.0020	0.00057	mg/L	1			200.8-1994 R5.4	Total Recoverable
Selenium	0.0016	J	0.0050	0.00089	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	170		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	44		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.093		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	2.7	B	0.10	0.013	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	600		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	220		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	940		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	4.9		4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	70		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.16		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	420		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L504149-04 MW-18D

Lab Sample ID: 240-223130-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	3.7		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Barium	0.022		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.044		0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.0027		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	55		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	9.9		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.059		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	1.1	B	0.10	0.013	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	180		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	310		5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	560		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	1.4	J	4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	26		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-04 MW-18D (Continued)

Lab Sample ID: 240-223130-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.0		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	140		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L504149-05 MWT-18A

Lab Sample ID: 240-223130-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.78		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.00077	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.043		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.11		0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	89		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	14		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.063		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	1.5		0.10	0.013	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	280		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	130		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	500		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	2.7	J	4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	79		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.51		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	170		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L504149-06 FB

Lab Sample ID: 240-223130-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.019	J	0.10	0.013	mg/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-01 MW-18A

Lab Sample ID: 240-223130-1

Date Collected: 04/24/25 09:37

Matrix: Water

Date Received: 04/26/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.79		0.10	0.057	mg/L		04/28/25 14:00	04/30/25 06:15	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		04/28/25 14:00	04/29/25 17:52	1
Arsenic	0.00076	J	0.0050	0.00075	mg/L		04/28/25 14:00	04/29/25 17:52	1
Barium	0.042		0.0050	0.00077	mg/L		04/28/25 14:00	04/29/25 17:52	1
Beryllium	ND		0.0010	0.00027	mg/L		04/28/25 14:00	04/29/25 17:52	1
Cadmium	ND		0.0010	0.000077	mg/L		04/28/25 14:00	04/29/25 17:52	1
Cobalt	ND		0.0010	0.000086	mg/L		04/28/25 14:00	04/29/25 17:52	1
Chromium	ND		0.0050	0.0012	mg/L		04/28/25 14:00	04/29/25 17:52	1
Copper	ND		0.0020	0.0017	mg/L		04/28/25 14:00	04/29/25 17:52	1
Molybdenum	0.11		0.0050	0.0011	mg/L		04/28/25 14:00	04/29/25 17:52	1
Nickel	ND		0.0020	0.0015	mg/L		04/28/25 14:00	04/29/25 17:52	1
Lead	0.00045	J	0.0010	0.00045	mg/L		04/28/25 14:00	04/30/25 17:21	1
Antimony	ND		0.0020	0.00057	mg/L		04/28/25 14:00	04/29/25 17:52	1
Selenium	0.0015	J	0.0050	0.00089	mg/L		04/28/25 14:00	04/29/25 17:52	1
Thallium	ND		0.0010	0.00051	mg/L		04/28/25 14:00	04/30/25 17:21	1
Vanadium	ND		0.0050	0.00082	mg/L		04/28/25 14:00	04/29/25 17:52	1
Calcium	90		1.0	0.25	mg/L		04/28/25 14:00	04/29/25 17:52	1
Magnesium	14		1.0	0.061	mg/L		04/28/25 14:00	04/29/25 17:52	1
Lithium	0.066		0.0080	0.0034	mg/L		04/28/25 14:00	04/29/25 17:52	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.5	B	0.10	0.013	mg/L		05/01/25 17:53	05/02/25 15:19	1
Zinc	ND		0.0070	0.00093	mg/L		05/02/25 16:38	05/05/25 13:08	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	280		33	33	mg/L			05/01/25 06:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		04/28/25 14:00	04/30/25 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	130		5.0	2.6	mg/L			05/01/25 15:07	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/01/25 15:07	1
Total Dissolved Solids (SM 2540 C-2020)	510		10	7.8	mg/L			04/29/25 10:50	1
Total Suspended Solids (SM 2540D-2020)	1.3	J	4.0	0.40	mg/L			04/28/25 09:59	1
Chloride (EPA 300.0-1993 R2.1)	78		1.0	0.13	mg/L			05/02/25 10:50	1
Fluoride (EPA 300.0-1993 R2.1)	0.48		0.050	0.024	mg/L			05/02/25 10:50	1
Sulfate (EPA 300.0-1993 R2.1)	170		1.0	0.35	mg/L			05/02/25 10:50	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-01 MW-18A

Lab Sample ID: 240-223130-1

Date Collected: 04/24/25 09:37

Matrix: Water

Date Received: 04/26/25 08:00

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	0.260		0.123	0.125	1.00	0.144	pCi/L	04/30/25 12:53	05/27/25 08:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					04/30/25 12:53	05/27/25 08:20	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	0.417	U	0.391	0.393	1.00	0.623	pCi/L	04/30/25 12:57	05/23/25 14:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					04/30/25 12:57	05/23/25 14:33	1
Y Carrier	77.8		30 - 110					04/30/25 12:57	05/23/25 14:33	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	0.676		0.410	0.412	5.00	0.623	pCi/L		05/27/25 14:18	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-02 MW-18B

Lab Sample ID: 240-223130-2

Date Collected: 04/24/25 10:58

Matrix: Water

Date Received: 04/26/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.2		0.10	0.057	mg/L		04/28/25 14:00	04/30/25 06:37	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		04/28/25 14:00	04/29/25 17:55	1
Arsenic	ND		0.0050	0.00075	mg/L		04/28/25 14:00	04/29/25 17:55	1
Barium	0.056		0.0050	0.00077	mg/L		04/28/25 14:00	04/29/25 17:55	1
Beryllium	ND		0.0010	0.00027	mg/L		04/28/25 14:00	04/29/25 17:55	1
Cadmium	ND		0.0010	0.000077	mg/L		04/28/25 14:00	04/29/25 17:55	1
Cobalt	ND		0.0010	0.000086	mg/L		04/28/25 14:00	04/29/25 17:55	1
Chromium	ND		0.0050	0.0012	mg/L		04/28/25 14:00	04/29/25 17:55	1
Copper	ND		0.0020	0.0017	mg/L		04/28/25 14:00	04/29/25 17:55	1
Molybdenum	0.14		0.0050	0.0011	mg/L		04/28/25 14:00	04/29/25 17:55	1
Nickel	0.0081		0.0020	0.0015	mg/L		04/28/25 14:00	04/29/25 17:55	1
Lead	ND		0.0010	0.00045	mg/L		04/28/25 14:00	04/30/25 17:23	1
Antimony	ND		0.0020	0.00057	mg/L		04/28/25 14:00	04/29/25 17:55	1
Selenium	ND		0.0050	0.00089	mg/L		04/28/25 14:00	04/29/25 17:55	1
Thallium	ND		0.0010	0.00051	mg/L		04/28/25 14:00	04/30/25 17:23	1
Vanadium	ND		0.0050	0.00082	mg/L		04/28/25 14:00	04/29/25 17:55	1
Calcium	160		1.0	0.25	mg/L		04/28/25 14:00	04/29/25 17:55	1
Magnesium	31		1.0	0.061	mg/L		04/28/25 14:00	04/29/25 17:55	1
Lithium	0.13		0.0080	0.0034	mg/L		04/28/25 14:00	04/29/25 17:55	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.6	B	0.10	0.013	mg/L		05/01/25 17:53	05/02/25 15:33	1
Zinc	ND		0.0070	0.00093	mg/L		05/01/25 17:53	05/02/25 15:33	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	540		33	33	mg/L			05/01/25 06:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		04/28/25 14:00	04/30/25 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	170		5.0	2.6	mg/L			05/01/25 15:17	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/01/25 15:17	1
Total Dissolved Solids (SM 2540 C-2020)	910		10	7.8	mg/L			04/29/25 10:50	1
Total Suspended Solids (SM 2540D-2020)	1.9	J	4.0	0.40	mg/L			04/28/25 09:59	1
Chloride (EPA 300.0-1993 R2.1)	87		1.0	0.13	mg/L			05/02/25 11:08	1
Fluoride (EPA 300.0-1993 R2.1)	0.21		0.050	0.024	mg/L			05/02/25 11:08	1
Sulfate (EPA 300.0-1993 R2.1)	410		5.0	1.7	mg/L			05/02/25 11:18	5

Eurofins Cleveland

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-02 MW-18B

Lab Sample ID: 240-223130-2

Date Collected: 04/24/25 10:58

Matrix: Water

Date Received: 04/26/25 08:00

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	0.561		0.163	0.170	1.00	0.139	pCi/L	04/30/25 12:53	05/27/25 08:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					04/30/25 12:53	05/27/25 08:20	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	0.906		0.408	0.417	1.00	0.553	pCi/L	04/30/25 12:57	05/23/25 14:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					04/30/25 12:57	05/23/25 14:33	1
Y Carrier	89.0		30 - 110					04/30/25 12:57	05/23/25 14:33	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		0.439	0.450	5.00	0.553	pCi/L		05/27/25 14:18	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-03 MW-18C

Lab Sample ID: 240-223130-3

Date Collected: 04/24/25 12:12

Matrix: Water

Date Received: 04/26/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.0		0.10	0.057	mg/L		04/28/25 14:00	04/30/25 06:50	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		04/28/25 14:00	04/29/25 18:08	1
Arsenic	ND		0.0050	0.00075	mg/L		04/28/25 14:00	04/29/25 18:08	1
Barium	0.049		0.0050	0.00077	mg/L		04/28/25 14:00	04/29/25 18:08	1
Beryllium	ND		0.0010	0.00027	mg/L		04/28/25 14:00	04/29/25 18:08	1
Cadmium	0.000096	J	0.0010	0.000077	mg/L		04/28/25 14:00	04/29/25 18:08	1
Cobalt	0.00015	J	0.0010	0.000086	mg/L		04/28/25 14:00	04/29/25 18:08	1
Chromium	ND		0.0050	0.0012	mg/L		04/28/25 14:00	04/29/25 18:08	1
Copper	ND		0.0020	0.0017	mg/L		04/28/25 14:00	04/29/25 18:08	1
Molybdenum	0.10		0.0050	0.0011	mg/L		04/28/25 14:00	04/29/25 18:08	1
Nickel	0.0076		0.0020	0.0015	mg/L		04/28/25 14:00	04/29/25 18:08	1
Lead	ND		0.0010	0.00045	mg/L		04/28/25 14:00	04/30/25 17:34	1
Antimony	0.00067	J	0.0020	0.00057	mg/L		04/28/25 14:00	04/29/25 18:08	1
Selenium	0.0016	J	0.0050	0.00089	mg/L		04/28/25 14:00	04/29/25 18:08	1
Thallium	ND		0.0010	0.00051	mg/L		04/28/25 14:00	04/30/25 17:34	1
Vanadium	ND		0.0050	0.00082	mg/L		04/28/25 14:00	04/29/25 18:08	1
Calcium	170		1.0	0.25	mg/L		04/28/25 14:00	04/29/25 18:08	1
Magnesium	44		1.0	0.061	mg/L		04/28/25 14:00	04/29/25 18:08	1
Lithium	0.093		0.0080	0.0034	mg/L		04/28/25 14:00	04/29/25 18:08	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.7	B	0.10	0.013	mg/L		05/01/25 17:53	05/02/25 15:35	1
Zinc	ND		0.0070	0.00093	mg/L		05/02/25 16:38	05/05/25 13:27	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	600		33	33	mg/L			05/01/25 06:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		04/28/25 14:00	04/30/25 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	220		5.0	2.6	mg/L			05/01/25 15:21	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/01/25 15:21	1
Total Dissolved Solids (SM 2540 C-2020)	940		10	7.8	mg/L			04/29/25 10:50	1
Total Suspended Solids (SM 2540D-2020)	4.9		4.0	0.40	mg/L			04/28/25 09:59	1
Chloride (EPA 300.0-1993 R2.1)	70		1.0	0.13	mg/L			05/02/25 11:27	1
Fluoride (EPA 300.0-1993 R2.1)	0.16		0.050	0.024	mg/L			05/02/25 11:27	1
Sulfate (EPA 300.0-1993 R2.1)	420		5.0	1.7	mg/L			05/02/25 11:36	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-03 MW-18C

Lab Sample ID: 240-223130-3

Date Collected: 04/24/25 12:12

Matrix: Water

Date Received: 04/26/25 08:00

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	0.684		0.196	0.205	1.00	0.190	pCi/L	04/30/25 12:53	05/27/25 10:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					04/30/25 12:53	05/27/25 10:18	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	0.768		0.500	0.505	1.00	0.744	pCi/L	04/30/25 12:57	05/23/25 14:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					04/30/25 12:57	05/23/25 14:33	1
Y Carrier	68.4		30 - 110					04/30/25 12:57	05/23/25 14:33	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	1.45		0.537	0.545	5.00	0.744	pCi/L		05/27/25 14:18	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-04 MW-18D

Lab Sample ID: 240-223130-4

Date Collected: 04/24/25 13:27

Matrix: Water

Date Received: 04/26/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.7		0.10	0.057	mg/L		04/28/25 14:00	04/30/25 06:55	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		04/28/25 14:00	04/29/25 18:11	1
Arsenic	ND		0.0050	0.00075	mg/L		04/28/25 14:00	04/29/25 18:11	1
Barium	0.022		0.0050	0.00077	mg/L		04/28/25 14:00	04/29/25 18:11	1
Beryllium	ND		0.0010	0.00027	mg/L		04/28/25 14:00	04/29/25 18:11	1
Cadmium	ND		0.0010	0.000077	mg/L		04/28/25 14:00	04/29/25 18:11	1
Cobalt	ND		0.0010	0.000086	mg/L		04/28/25 14:00	04/29/25 18:11	1
Chromium	ND		0.0050	0.0012	mg/L		04/28/25 14:00	04/29/25 18:11	1
Copper	ND		0.0020	0.0017	mg/L		04/28/25 14:00	04/29/25 18:11	1
Molybdenum	0.044		0.0050	0.0011	mg/L		04/28/25 14:00	04/29/25 18:11	1
Nickel	0.0027		0.0020	0.0015	mg/L		04/28/25 14:00	04/29/25 18:11	1
Lead	ND		0.0010	0.00045	mg/L		04/28/25 14:00	04/30/25 17:37	1
Antimony	ND		0.0020	0.00057	mg/L		04/28/25 14:00	04/29/25 18:11	1
Selenium	ND		0.0050	0.00089	mg/L		04/28/25 14:00	04/29/25 18:11	1
Thallium	ND		0.0010	0.00051	mg/L		04/28/25 14:00	04/30/25 17:37	1
Vanadium	ND		0.0050	0.00082	mg/L		04/28/25 14:00	04/29/25 18:11	1
Calcium	55		1.0	0.25	mg/L		04/28/25 14:00	04/29/25 18:11	1
Magnesium	9.9		1.0	0.061	mg/L		04/28/25 14:00	04/29/25 18:11	1
Lithium	0.059		0.0080	0.0034	mg/L		04/28/25 14:00	04/29/25 18:11	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.1	B	0.10	0.013	mg/L		05/01/25 17:53	05/02/25 15:38	1
Zinc	ND		0.0070	0.00093	mg/L		05/01/25 17:53	05/02/25 15:38	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	180		33	33	mg/L			05/01/25 06:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		04/28/25 14:00	04/30/25 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	310		5.0	2.6	mg/L			05/01/25 15:27	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/01/25 15:27	1
Total Dissolved Solids (SM 2540 C-2020)	560		10	7.8	mg/L			04/29/25 10:50	1
Total Suspended Solids (SM 2540D-2020)	1.4	J	4.0	0.40	mg/L			04/28/25 11:17	1
Chloride (EPA 300.0-1993 R2.1)	26		1.0	0.13	mg/L			05/02/25 11:45	1
Fluoride (EPA 300.0-1993 R2.1)	1.0		0.050	0.024	mg/L			05/02/25 11:45	1
Sulfate (EPA 300.0-1993 R2.1)	140		1.0	0.35	mg/L			05/02/25 11:45	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-04 MW-18D

Lab Sample ID: 240-223130-4

Date Collected: 04/24/25 13:27

Matrix: Water

Date Received: 04/26/25 08:00

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	0.206		0.140	0.141	1.00	0.202	pCi/L	04/30/25 12:53	05/27/25 10:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					04/30/25 12:53	05/27/25 10:18	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	0.476	U	0.411	0.413	1.00	0.645	pCi/L	04/30/25 12:57	05/23/25 14:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					04/30/25 12:57	05/23/25 14:34	1
Y Carrier	75.5		30 - 110					04/30/25 12:57	05/23/25 14:34	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	0.683		0.434	0.436	5.00	0.645	pCi/L		05/27/25 14:18	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-05 MWT-18A

Lab Sample ID: 240-223130-5

Date Collected: 04/24/25 09:37

Matrix: Water

Date Received: 04/26/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.78		0.10	0.057	mg/L		04/28/25 14:00	04/30/25 07:00	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		04/28/25 14:00	04/29/25 18:13	1
Arsenic	0.00077	J	0.0050	0.00075	mg/L		04/28/25 14:00	04/29/25 18:13	1
Barium	0.043		0.0050	0.00077	mg/L		04/28/25 14:00	04/29/25 18:13	1
Beryllium	ND		0.0010	0.00027	mg/L		04/28/25 14:00	04/29/25 18:13	1
Cadmium	ND		0.0010	0.000077	mg/L		04/28/25 14:00	04/29/25 18:13	1
Cobalt	ND		0.0010	0.000086	mg/L		04/28/25 14:00	04/29/25 18:13	1
Chromium	ND		0.0050	0.0012	mg/L		04/28/25 14:00	04/29/25 18:13	1
Copper	ND		0.0020	0.0017	mg/L		04/28/25 14:00	04/29/25 18:13	1
Molybdenum	0.11		0.0050	0.0011	mg/L		04/28/25 14:00	04/29/25 18:13	1
Nickel	ND		0.0020	0.0015	mg/L		04/28/25 14:00	04/29/25 18:13	1
Lead	ND		0.0010	0.00045	mg/L		04/28/25 14:00	04/30/25 17:39	1
Antimony	ND		0.0020	0.00057	mg/L		04/28/25 14:00	04/29/25 18:13	1
Selenium	ND		0.0050	0.00089	mg/L		04/28/25 14:00	04/29/25 18:13	1
Thallium	ND		0.0010	0.00051	mg/L		04/28/25 14:00	04/30/25 17:39	1
Vanadium	ND		0.0050	0.00082	mg/L		04/28/25 14:00	04/29/25 18:13	1
Calcium	89		1.0	0.25	mg/L		04/28/25 14:00	04/29/25 18:13	1
Magnesium	14		1.0	0.061	mg/L		04/28/25 14:00	04/29/25 18:13	1
Lithium	0.063		0.0080	0.0034	mg/L		04/28/25 14:00	04/29/25 18:13	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.5		0.10	0.013	mg/L		05/07/25 16:31	05/08/25 14:25	1
Zinc	ND		0.0070	0.00093	mg/L		05/07/25 16:31	05/08/25 14:25	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	280		33	33	mg/L			05/01/25 06:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		04/28/25 14:00	04/30/25 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	130		5.0	2.6	mg/L			05/01/25 15:34	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/01/25 15:34	1
Total Dissolved Solids (SM 2540 C-2020)	500		10	7.8	mg/L			04/29/25 10:50	1
Total Suspended Solids (SM 2540D-2020)	2.7	J	4.0	0.40	mg/L			04/28/25 11:17	1
Chloride (EPA 300.0-1993 R2.1)	79		1.0	0.13	mg/L			05/03/25 00:01	1
Fluoride (EPA 300.0-1993 R2.1)	0.51		0.050	0.024	mg/L			05/03/25 00:01	1
Sulfate (EPA 300.0-1993 R2.1)	170		1.0	0.35	mg/L			05/03/25 00:01	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-05 MWT-18A

Lab Sample ID: 240-223130-5

Date Collected: 04/24/25 09:37

Matrix: Water

Date Received: 04/26/25 08:00

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	0.226		0.146	0.148	1.00	0.209	pCi/L	04/30/25 12:53	05/27/25 10:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					04/30/25 12:53	05/27/25 10:18	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	0.278	U	0.417	0.418	1.00	0.707	pCi/L	04/30/25 12:57	05/23/25 14:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					04/30/25 12:57	05/23/25 14:34	1
Y Carrier	69.5		30 - 110					04/30/25 12:57	05/23/25 14:34	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	0.504	U	0.442	0.443	5.00	0.707	pCi/L		05/27/25 14:18	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-06 FB

Lab Sample ID: 240-223130-6

Date Collected: 04/24/25 08:24

Matrix: Water

Date Received: 04/26/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		04/28/25 14:00	04/30/25 07:04	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		04/28/25 14:00	04/29/25 18:21	1
Arsenic	ND		0.0050	0.00075	mg/L		04/28/25 14:00	04/29/25 18:21	1
Barium	ND		0.0050	0.00077	mg/L		04/28/25 14:00	04/29/25 18:21	1
Beryllium	ND		0.0010	0.00027	mg/L		04/28/25 14:00	04/29/25 18:21	1
Cadmium	ND		0.0010	0.000077	mg/L		04/28/25 14:00	04/29/25 18:21	1
Cobalt	ND		0.0010	0.000086	mg/L		04/28/25 14:00	04/29/25 18:21	1
Chromium	ND		0.0050	0.0012	mg/L		04/28/25 14:00	04/29/25 18:21	1
Copper	ND		0.0020	0.0017	mg/L		04/28/25 14:00	04/29/25 18:21	1
Molybdenum	ND		0.0050	0.0011	mg/L		04/28/25 14:00	04/29/25 18:21	1
Nickel	ND		0.0020	0.0015	mg/L		04/28/25 14:00	04/29/25 18:21	1
Lead	ND		0.0010	0.00045	mg/L		04/28/25 14:00	04/30/25 17:47	1
Antimony	ND		0.0020	0.00057	mg/L		04/28/25 14:00	04/29/25 18:21	1
Selenium	ND		0.0050	0.00089	mg/L		04/28/25 14:00	04/29/25 18:21	1
Thallium	ND		0.0010	0.00051	mg/L		04/28/25 14:00	04/30/25 17:47	1
Vanadium	ND		0.0050	0.00082	mg/L		04/28/25 14:00	04/29/25 18:21	1
Calcium	ND		1.0	0.25	mg/L		04/28/25 14:00	04/29/25 18:21	1
Magnesium	ND		1.0	0.061	mg/L		04/28/25 14:00	04/29/25 18:21	1
Lithium	ND		0.0080	0.0034	mg/L		04/28/25 14:00	04/29/25 18:21	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.019	J	0.10	0.013	mg/L		05/08/25 16:08	05/09/25 12:41	1
Zinc	ND		0.0070	0.00093	mg/L		05/08/25 16:08	05/09/25 12:41	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			05/01/25 06:00	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		04/28/25 14:00	04/30/25 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/01/25 15:39	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/01/25 15:39	1
Total Dissolved Solids (SM 2540 C-2020)	ND		10	7.8	mg/L			04/29/25 10:50	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			04/28/25 11:17	1
Chloride (EPA 300.0-1993 R2.1)	ND		1.0	0.13	mg/L			05/03/25 00:19	1
Fluoride (EPA 300.0-1993 R2.1)	ND		0.050	0.024	mg/L			05/03/25 00:19	1
Sulfate (EPA 300.0-1993 R2.1)	ND		1.0	0.35	mg/L			05/03/25 00:19	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-06 FB

Lab Sample ID: 240-223130-6

Date Collected: 04/24/25 08:24

Matrix: Water

Date Received: 04/26/25 08:00

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	-0.00290	U	0.0813	0.0813	1.00	0.164	pCi/L	04/30/25 12:53	05/27/25 10:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		30 - 110					04/30/25 12:53	05/27/25 10:18	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	-0.0154	U	0.295	0.295	1.00	0.567	pCi/L	04/30/25 12:57	05/23/25 14:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		30 - 110					04/30/25 12:57	05/23/25 14:34	1
Y Carrier	77.0		30 - 110					04/30/25 12:57	05/23/25 14:34	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	0.000	U	0.306	0.306	5.00	0.567	pCi/L		05/27/25 14:18	1

Tracer/Carrier Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
240-223130-1	L504149-01 MW-18A	92.8	
240-223130-2	L504149-02 MW-18B	94.4	
240-223130-3	L504149-03 MW-18C	89.3	
240-223130-4	L504149-04 MW-18D	92.1	
240-223130-5	L504149-05 MWT-18A	88.5	
240-223130-6	L504149-06 FB	92.6	
LCS 160-715328/2-A	Lab Control Sample	89.0	
MB 160-715328/1-A	Method Blank	81.3	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
240-223130-1	L504149-01 MW-18A	92.8	77.8
240-223130-2	L504149-02 MW-18B	94.4	89.0
240-223130-3	L504149-03 MW-18C	89.3	68.4
240-223130-4	L504149-04 MW-18D	92.1	75.5
240-223130-5	L504149-05 MWT-18A	88.5	69.5
240-223130-6	L504149-06 FB	92.6	77.0
LCS 160-715329/2-A	Lab Control Sample	89.0	77.8
MB 160-715329/1-A	Method Blank	81.3	74.8
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Method: 200.7 R4.4-1994 - Metals (ICP)

Lab Sample ID: MB 240-653842/1-A
Matrix: Water
Analysis Batch: 654139

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 653842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		04/28/25 14:00	04/30/25 06:06	1

Lab Sample ID: LCS 240-653842/2-A
Matrix: Water
Analysis Batch: 654139

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 653842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.02		mg/L		102	85 - 115

Lab Sample ID: 240-223130-1 MS
Matrix: Water
Analysis Batch: 654139

Client Sample ID: L504149-01 MW-18A
Prep Type: Total Recoverable
Prep Batch: 653842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.79		1.00	1.82		mg/L		104	70 - 130

Lab Sample ID: 240-223130-1 MSD
Matrix: Water
Analysis Batch: 654139

Client Sample ID: L504149-01 MW-18A
Prep Type: Total Recoverable
Prep Batch: 653842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.79		1.00	1.81		mg/L		102	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 350-6586/25-A
Matrix: Water
Analysis Batch: 6606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.0132	J	0.10	0.013	mg/L		05/01/25 17:53	05/02/25 15:13	1
Zinc	0.00856		0.0070	0.00093	mg/L		05/01/25 17:53	05/02/25 15:13	1

Lab Sample ID: LCS 350-6586/26-A
Matrix: Water
Analysis Batch: 6606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	20.1		mg/L		101	85 - 115
Zinc	1.00	1.02		mg/L		102	85 - 115

Lab Sample ID: 240-223130-1 MS
Matrix: Water
Analysis Batch: 6606

Client Sample ID: L504149-01 MW-18A
Prep Type: Total/NA
Prep Batch: 6586

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.5	B	20.0	21.9		mg/L		102	70 - 130
Zinc	0.0026	J B	1.00	1.04		mg/L		104	70 - 130

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-223130-1 MSD

Matrix: Water

Analysis Batch: 6606

Client Sample ID: L504149-01 MW-18A

Prep Type: Total/NA

Prep Batch: 6586

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	1.5	B	20.0	22.3		mg/L		104	70 - 130	2	20
Zinc	0.0026	J B	1.00	1.04		mg/L		104	70 - 130	0	20

Lab Sample ID: MB 350-6607/13-A

Matrix: Water

Analysis Batch: 6623

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6607

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.0213	J	0.10	0.013	mg/L		05/02/25 16:38	05/05/25 12:47	1
Zinc	ND		0.0070	0.00093	mg/L		05/02/25 16:38	05/05/25 12:47	1

Lab Sample ID: LCS 350-6607/14-A

Matrix: Water

Analysis Batch: 6623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6607

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	21.2		mg/L		106	85 - 115
Zinc	1.00	1.06		mg/L		106	85 - 115

Lab Sample ID: MB 350-6680/13-A

Matrix: Water

Analysis Batch: 6711

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		05/07/25 16:31	05/08/25 14:20	1
Zinc	ND		0.0070	0.00093	mg/L		05/07/25 16:31	05/08/25 14:20	1

Lab Sample ID: LCS 350-6680/14-A

Matrix: Water

Analysis Batch: 6711

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	21.3		mg/L		106	85 - 115
Zinc	1.00	1.07		mg/L		107	85 - 115

Lab Sample ID: 240-223130-5 MS

Matrix: Water

Analysis Batch: 6711

Client Sample ID: L504149-05 MWT-18A

Prep Type: Total/NA

Prep Batch: 6680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.5		20.0	21.5		mg/L		100	70 - 130
Zinc	ND		1.00	0.967		mg/L		97	70 - 130

Lab Sample ID: 240-223130-5 MSD

Matrix: Water

Analysis Batch: 6711

Client Sample ID: L504149-05 MWT-18A

Prep Type: Total/NA

Prep Batch: 6680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	1.5		20.0	22.1		mg/L		103	70 - 130	2	20
Zinc	ND		1.00	1.02		mg/L		102	70 - 130	5	20

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 350-6701/25-A

Matrix: Water

Analysis Batch: 6733

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		05/08/25 16:08	05/09/25 11:36	1
Zinc	ND		0.0070	0.00093	mg/L		05/08/25 16:08	05/09/25 11:36	1

Lab Sample ID: LCS 350-6701/26-A

Matrix: Water

Analysis Batch: 6733

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	20.9		mg/L		105	85 - 115
Zinc	1.00	1.03		mg/L		103	85 - 115

Method: 200.8-1994 R5.4 - Metals (ICP/MS)

Lab Sample ID: MB 240-653842/1-A

Matrix: Water

Analysis Batch: 654111

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 653842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		04/28/25 14:00	04/29/25 17:42	1
Arsenic	ND		0.0050	0.00075	mg/L		04/28/25 14:00	04/29/25 17:42	1
Barium	ND		0.0050	0.00077	mg/L		04/28/25 14:00	04/29/25 17:42	1
Beryllium	ND		0.0010	0.00027	mg/L		04/28/25 14:00	04/29/25 17:42	1
Cadmium	ND		0.0010	0.000077	mg/L		04/28/25 14:00	04/29/25 17:42	1
Cobalt	ND		0.0010	0.000086	mg/L		04/28/25 14:00	04/29/25 17:42	1
Chromium	ND		0.0050	0.0012	mg/L		04/28/25 14:00	04/29/25 17:42	1
Copper	ND		0.0020	0.0017	mg/L		04/28/25 14:00	04/29/25 17:42	1
Molybdenum	ND		0.0050	0.0011	mg/L		04/28/25 14:00	04/29/25 17:42	1
Nickel	ND		0.0020	0.0015	mg/L		04/28/25 14:00	04/29/25 17:42	1
Antimony	ND		0.0020	0.00057	mg/L		04/28/25 14:00	04/29/25 17:42	1
Selenium	ND		0.0050	0.00089	mg/L		04/28/25 14:00	04/29/25 17:42	1
Vanadium	ND		0.0050	0.00082	mg/L		04/28/25 14:00	04/29/25 17:42	1
Calcium	ND		1.0	0.25	mg/L		04/28/25 14:00	04/29/25 17:42	1
Magnesium	ND		1.0	0.061	mg/L		04/28/25 14:00	04/29/25 17:42	1
Lithium	ND		0.0080	0.0034	mg/L		04/28/25 14:00	04/29/25 17:42	1

Lab Sample ID: MB 240-653842/1-A

Matrix: Water

Analysis Batch: 654281

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 653842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0010	0.00045	mg/L		04/28/25 14:00	04/30/25 17:15	1
Thallium	ND		0.0010	0.00051	mg/L		04/28/25 14:00	04/30/25 17:15	1

Lab Sample ID: LCS 240-653842/3-A

Matrix: Water

Analysis Batch: 654111

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 653842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.100	0.0939		mg/L		94	85 - 115
Arsenic	1.00	0.992		mg/L		99	85 - 115

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-653842/3-A

Matrix: Water

Analysis Batch: 654111

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 653842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	1.00	0.992		mg/L		99	85 - 115
Beryllium	0.500	0.483		mg/L		97	85 - 115
Cadmium	0.500	0.494		mg/L		99	85 - 115
Cobalt	0.500	0.483		mg/L		97	85 - 115
Chromium	0.500	0.504		mg/L		101	85 - 115
Copper	0.500	0.497		mg/L		99	85 - 115
Molybdenum	0.500	0.472		mg/L		94	85 - 115
Nickel	0.500	0.460		mg/L		92	85 - 115
Antimony	0.100	0.0997		mg/L		100	85 - 115
Selenium	1.00	0.962		mg/L		96	85 - 115
Vanadium	0.500	0.502		mg/L		100	85 - 115
Calcium	25.0	26.1		mg/L		104	85 - 115
Magnesium	25.0	24.8		mg/L		99	85 - 115
Lithium	0.500	0.508		mg/L		102	85 - 115

Lab Sample ID: LCS 240-653842/3-A

Matrix: Water

Analysis Batch: 654281

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 653842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.500	0.511		mg/L		102	85 - 115
Thallium	1.00	1.11		mg/L		111	85 - 115

Lab Sample ID: 240-223130-2 MS

Matrix: Water

Analysis Batch: 654111

Client Sample ID: L504149-02 MW-18B

Prep Type: Total Recoverable

Prep Batch: 653842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.100	0.0879		mg/L		88	70 - 130
Arsenic	ND		1.00	0.985		mg/L		99	70 - 130
Barium	0.056		1.00	1.03		mg/L		98	70 - 130
Beryllium	ND		0.500	0.461		mg/L		92	70 - 130
Cadmium	ND		0.500	0.480		mg/L		96	70 - 130
Cobalt	ND		0.500	0.470		mg/L		94	70 - 130
Chromium	ND		0.500	0.494		mg/L		99	70 - 130
Copper	ND		0.500	0.476		mg/L		95	70 - 130
Molybdenum	0.14		0.500	0.614		mg/L		95	70 - 130
Nickel	0.0081		0.500	0.456		mg/L		90	70 - 130
Antimony	ND		0.100	0.0977		mg/L		98	70 - 130
Selenium	ND		1.00	0.923		mg/L		92	70 - 130
Vanadium	ND		0.500	0.500		mg/L		100	70 - 130
Calcium	160		25.0	190	4	mg/L		107	70 - 130
Magnesium	31		25.0	58.0		mg/L		109	70 - 130
Lithium	0.13		0.500	0.611		mg/L		96	70 - 130

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-223130-2 MS

Matrix: Water

Analysis Batch: 654281

Client Sample ID: L504149-02 MW-18B

Prep Type: Total Recoverable

Prep Batch: 653842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		0.500	0.512		mg/L		102	70 - 130
Thallium	ND		1.00	1.11		mg/L		111	70 - 130

Lab Sample ID: 240-223130-2 MSD

Matrix: Water

Analysis Batch: 654111

Client Sample ID: L504149-02 MW-18B

Prep Type: Total Recoverable

Prep Batch: 653842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Silver	ND		0.100	0.0957		mg/L		96	70 - 130	9	20
Arsenic	ND		1.00	1.00		mg/L		100	70 - 130	2	20
Barium	0.056		1.00	1.06		mg/L		101	70 - 130	3	20
Beryllium	ND		0.500	0.473		mg/L		95	70 - 130	3	20
Cadmium	ND		0.500	0.493		mg/L		99	70 - 130	3	20
Cobalt	ND		0.500	0.481		mg/L		96	70 - 130	2	20
Chromium	ND		0.500	0.502		mg/L		100	70 - 130	2	20
Copper	ND		0.500	0.490		mg/L		98	70 - 130	3	20
Molybdenum	0.14		0.500	0.627		mg/L		98	70 - 130	2	20
Nickel	0.0081		0.500	0.464		mg/L		91	70 - 130	2	20
Antimony	ND		0.100	0.105		mg/L		105	70 - 130	7	20
Selenium	ND		1.00	0.956		mg/L		96	70 - 130	4	20
Vanadium	ND		0.500	0.504		mg/L		101	70 - 130	1	20
Calcium	160		25.0	189	4	mg/L		99	70 - 130	1	20
Magnesium	31		25.0	54.7		mg/L		95	70 - 130	6	20
Lithium	0.13		0.500	0.623		mg/L		99	70 - 130	2	20

Lab Sample ID: 240-223130-2 MSD

Matrix: Water

Analysis Batch: 654281

Client Sample ID: L504149-02 MW-18B

Prep Type: Total Recoverable

Prep Batch: 653842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Lead	ND		0.500	0.517		mg/L		103	70 - 130	1	20
Thallium	ND		1.00	1.12		mg/L		112	70 - 130	1	20

Method: 245.1-1994 R3.0 - Mercury (CVAA)

Lab Sample ID: MB 240-653846/1-A

Matrix: Water

Analysis Batch: 654220

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 653846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		04/28/25 14:00	04/30/25 10:04	1

Lab Sample ID: LCS 240-653846/2-A

Matrix: Water

Analysis Batch: 654220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 653846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00477		mg/L		95	85 - 115

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Method: 245.1-1994 R3.0 - Mercury (CVAA) (Continued)

Lab Sample ID: 240-223130-1 MS
Matrix: Water
Analysis Batch: 654220

Client Sample ID: L504149-01 MW-18A
Prep Type: Total/NA
Prep Batch: 653846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.000994		mg/L		99	70 - 130

Lab Sample ID: 240-223130-1 MSD
Matrix: Water
Analysis Batch: 654220

Client Sample ID: L504149-01 MW-18A
Prep Type: Total/NA
Prep Batch: 653846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.000995		mg/L		99	70 - 130	0	20

Method: 2320 B-2021 - Alkalinity

Lab Sample ID: MB 240-654559/4
Matrix: Water
Analysis Batch: 654559

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	ND		5.0	2.6	mg/L			05/01/25 15:03	1
Carbonate Alkalinity as CaCO3	ND		5.0	2.6	mg/L			05/01/25 15:03	1

Lab Sample ID: 240-223130-1 DU
Matrix: Water
Analysis Batch: 654559

Client Sample ID: L504149-01 MW-18A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	Analyzed	Dil Fac	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	130		132		mg/L					0.4	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L					NC	20

Method: 2540 C-2020 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-654012/1
Matrix: Water
Analysis Batch: 654012

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	7.8	mg/L			04/29/25 10:50	1

Lab Sample ID: LCS 240-654012/2
Matrix: Water
Analysis Batch: 654012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	176	172		mg/L		98	80 - 120

Method: 2540D-2020 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-653809/1
Matrix: Water
Analysis Batch: 653809

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	0.40	mg/L			04/28/25 09:59	1

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Method: 2540D-2020 - Solids, Total Suspended (TSS)

Lab Sample ID: LCS 240-653809/2

Matrix: Water

Analysis Batch: 653809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	76.1	68.0		mg/L		89	64 - 120

Lab Sample ID: MB 240-653852/1

Matrix: Water

Analysis Batch: 653852

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	0.40	mg/L			04/28/25 11:17	1

Lab Sample ID: LCS 240-653852/2

Matrix: Water

Analysis Batch: 653852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	76.1	77.0		mg/L		101	64 - 120

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 240-654067/3

Matrix: Water

Analysis Batch: 654067

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.13	mg/L			05/02/25 07:10	1
Fluoride	ND		0.050	0.024	mg/L			05/02/25 07:10	1
Sulfate	ND		1.0	0.35	mg/L			05/02/25 07:10	1

Lab Sample ID: LCS 240-654067/4

Matrix: Water

Analysis Batch: 654067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.7		mg/L		97	90 - 110
Fluoride	2.50	2.41		mg/L		96	90 - 110
Sulfate	50.0	47.4		mg/L		95	90 - 110

Lab Sample ID: 240-223130-4 MS

Matrix: Water

Analysis Batch: 654067

Client Sample ID: L504149-04 MW-18D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	26		50.0	76.7		mg/L		102	80 - 120
Fluoride	1.0		2.50	3.47		mg/L		97	80 - 120
Sulfate	140		50.0	183		mg/L		93	80 - 120

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-223130-4 MS

Matrix: Water

Analysis Batch: 654067

Client Sample ID: L504149-04 MW-18D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25		250	282		mg/L		103	80 - 120
Fluoride	0.75		12.5	13.5		mg/L		102	80 - 120
Sulfate	140		250	386		mg/L		100	80 - 120

Lab Sample ID: 240-223130-4 MSD

Matrix: Water

Analysis Batch: 654067

Client Sample ID: L504149-04 MW-18D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	26		50.0	76.7		mg/L		102	80 - 120	0	15
Fluoride	1.0		2.50	3.47		mg/L		97	80 - 120	0	15
Sulfate	140		50.0	183		mg/L		92	80 - 120	0	15

Lab Sample ID: 240-223130-4 MSD

Matrix: Water

Analysis Batch: 654067

Client Sample ID: L504149-04 MW-18D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25		250	283		mg/L		103	80 - 120	0	15
Fluoride	0.75		12.5	13.5		mg/L		102	80 - 120	0	15
Sulfate	140		250	386		mg/L		100	80 - 120	0	15

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-715328/1-A

Matrix: Water

Analysis Batch: 719413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 715328

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1802		0.119	0.120	1.00	0.161	pCi/L	04/30/25 12:53	05/27/25 08:19	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		30 - 110	04/30/25 12:53	05/27/25 08:19	1

Lab Sample ID: LCS 160-715328/2-A

Matrix: Water

Analysis Batch: 719413

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 715328

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	9.58	9.232		1.04	1.00	0.204	pCi/L	96	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	89.0		30 - 110

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-715329/1-A

Matrix: Water

Analysis Batch: 719017

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 715329

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1528	U	0.388	0.389	1.00	0.777	pCi/L	04/30/25 12:57	05/23/25 14:26	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		30 - 110	04/30/25 12:57	05/23/25 14:26	1
Y Carrier	74.8		30 - 110	04/30/25 12:57	05/23/25 14:26	1

Lab Sample ID: LCS 160-715329/2-A

Matrix: Water

Analysis Batch: 719017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 715329

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.42	11.79		1.64	1.00	0.816	pCi/L	125	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	89.0		30 - 110
Y Carrier	77.8		30 - 110

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Metals

Prep Batch: 6586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	200.8	
240-223130-2	L504149-02 MW-18B	Total/NA	Water	200.8	
240-223130-3	L504149-03 MW-18C	Total/NA	Water	200.8	
240-223130-4	L504149-04 MW-18D	Total/NA	Water	200.8	
MB 350-6586/25-A	Method Blank	Total/NA	Water	200.8	
LCS 350-6586/26-A	Lab Control Sample	Total/NA	Water	200.8	
240-223130-1 MS	L504149-01 MW-18A	Total/NA	Water	200.8	
240-223130-1 MSD	L504149-01 MW-18A	Total/NA	Water	200.8	

Analysis Batch: 6606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	200.8	6586
240-223130-2	L504149-02 MW-18B	Total/NA	Water	200.8	6586
240-223130-3	L504149-03 MW-18C	Total/NA	Water	200.8	6586
240-223130-4	L504149-04 MW-18D	Total/NA	Water	200.8	6586
MB 350-6586/25-A	Method Blank	Total/NA	Water	200.8	6586
LCS 350-6586/26-A	Lab Control Sample	Total/NA	Water	200.8	6586
240-223130-1 MS	L504149-01 MW-18A	Total/NA	Water	200.8	6586
240-223130-1 MSD	L504149-01 MW-18A	Total/NA	Water	200.8	6586

Prep Batch: 6607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	200.8	
240-223130-3	L504149-03 MW-18C	Total/NA	Water	200.8	
MB 350-6607/13-A	Method Blank	Total/NA	Water	200.8	
LCS 350-6607/14-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 6623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	200.8	6607
240-223130-3	L504149-03 MW-18C	Total/NA	Water	200.8	6607
MB 350-6607/13-A	Method Blank	Total/NA	Water	200.8	6607
LCS 350-6607/14-A	Lab Control Sample	Total/NA	Water	200.8	6607

Prep Batch: 6680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-5	L504149-05 MWT-18A	Total/NA	Water	200.8	
MB 350-6680/13-A	Method Blank	Total/NA	Water	200.8	
LCS 350-6680/14-A	Lab Control Sample	Total/NA	Water	200.8	
240-223130-5 MS	L504149-05 MWT-18A	Total/NA	Water	200.8	
240-223130-5 MSD	L504149-05 MWT-18A	Total/NA	Water	200.8	

Prep Batch: 6701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-6	L504149-06 FB	Total/NA	Water	200.8	
MB 350-6701/25-A	Method Blank	Total/NA	Water	200.8	
LCS 350-6701/26-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 6711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-5	L504149-05 MWT-18A	Total/NA	Water	200.8	6680

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Metals (Continued)

Analysis Batch: 6711 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 350-6680/13-A	Method Blank	Total/NA	Water	200.8	6680
LCS 350-6680/14-A	Lab Control Sample	Total/NA	Water	200.8	6680
240-223130-5 MS	L504149-05 MWT-18A	Total/NA	Water	200.8	6680
240-223130-5 MSD	L504149-05 MWT-18A	Total/NA	Water	200.8	6680

Analysis Batch: 6733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-6	L504149-06 FB	Total/NA	Water	200.8	6701
MB 350-6701/25-A	Method Blank	Total/NA	Water	200.8	6701
LCS 350-6701/26-A	Lab Control Sample	Total/NA	Water	200.8	6701

Prep Batch: 653842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total Recoverable	Water	200.7	
240-223130-2	L504149-02 MW-18B	Total Recoverable	Water	200.7	
240-223130-3	L504149-03 MW-18C	Total Recoverable	Water	200.7	
240-223130-4	L504149-04 MW-18D	Total Recoverable	Water	200.7	
240-223130-5	L504149-05 MWT-18A	Total Recoverable	Water	200.7	
240-223130-6	L504149-06 FB	Total Recoverable	Water	200.7	
MB 240-653842/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 240-653842/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 240-653842/3-A	Lab Control Sample	Total Recoverable	Water	200.7	
240-223130-1 MS	L504149-01 MW-18A	Total Recoverable	Water	200.7	
240-223130-1 MSD	L504149-01 MW-18A	Total Recoverable	Water	200.7	
240-223130-2 MS	L504149-02 MW-18B	Total Recoverable	Water	200.7	
240-223130-2 MSD	L504149-02 MW-18B	Total Recoverable	Water	200.7	

Prep Batch: 653846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	245.1-1994 R3.0	
240-223130-2	L504149-02 MW-18B	Total/NA	Water	245.1-1994 R3.0	
240-223130-3	L504149-03 MW-18C	Total/NA	Water	245.1-1994 R3.0	
240-223130-4	L504149-04 MW-18D	Total/NA	Water	245.1-1994 R3.0	
240-223130-5	L504149-05 MWT-18A	Total/NA	Water	245.1-1994 R3.0	
240-223130-6	L504149-06 FB	Total/NA	Water	245.1-1994 R3.0	
MB 240-653846/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	
LCS 240-653846/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	
240-223130-1 MS	L504149-01 MW-18A	Total/NA	Water	245.1-1994 R3.0	
240-223130-1 MSD	L504149-01 MW-18A	Total/NA	Water	245.1-1994 R3.0	

Analysis Batch: 654111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-2	L504149-02 MW-18B	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-3	L504149-03 MW-18C	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-4	L504149-04 MW-18D	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-5	L504149-05 MWT-18A	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-6	L504149-06 FB	Total Recoverable	Water	200.8-1994 R5.4	653842
MB 240-653842/1-A	Method Blank	Total Recoverable	Water	200.8-1994 R5.4	653842
LCS 240-653842/3-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-2 MS	L504149-02 MW-18B	Total Recoverable	Water	200.8-1994 R5.4	653842

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Metals (Continued)

Analysis Batch: 654111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-2 MSD	L504149-02 MW-18B	Total Recoverable	Water	200.8-1994 R5.4	653842

Analysis Batch: 654139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total Recoverable	Water	200.7 R4.4-1994	653842
240-223130-2	L504149-02 MW-18B	Total Recoverable	Water	200.7 R4.4-1994	653842
240-223130-3	L504149-03 MW-18C	Total Recoverable	Water	200.7 R4.4-1994	653842
240-223130-4	L504149-04 MW-18D	Total Recoverable	Water	200.7 R4.4-1994	653842
240-223130-5	L504149-05 MWT-18A	Total Recoverable	Water	200.7 R4.4-1994	653842
240-223130-6	L504149-06 FB	Total Recoverable	Water	200.7 R4.4-1994	653842
MB 240-653842/1-A	Method Blank	Total Recoverable	Water	200.7 R4.4-1994	653842
LCS 240-653842/2-A	Lab Control Sample	Total Recoverable	Water	200.7 R4.4-1994	653842
240-223130-1 MS	L504149-01 MW-18A	Total Recoverable	Water	200.7 R4.4-1994	653842
240-223130-1 MSD	L504149-01 MW-18A	Total Recoverable	Water	200.7 R4.4-1994	653842

Analysis Batch: 654220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	245.1-1994 R3.0	653846
240-223130-2	L504149-02 MW-18B	Total/NA	Water	245.1-1994 R3.0	653846
240-223130-3	L504149-03 MW-18C	Total/NA	Water	245.1-1994 R3.0	653846
240-223130-4	L504149-04 MW-18D	Total/NA	Water	245.1-1994 R3.0	653846
240-223130-5	L504149-05 MWT-18A	Total/NA	Water	245.1-1994 R3.0	653846
240-223130-6	L504149-06 FB	Total/NA	Water	245.1-1994 R3.0	653846
MB 240-653846/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	653846
LCS 240-653846/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	653846
240-223130-1 MS	L504149-01 MW-18A	Total/NA	Water	245.1-1994 R3.0	653846
240-223130-1 MSD	L504149-01 MW-18A	Total/NA	Water	245.1-1994 R3.0	653846

Analysis Batch: 654273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total Recoverable	Water	2340 B-2021	
240-223130-2	L504149-02 MW-18B	Total Recoverable	Water	2340 B-2021	
240-223130-3	L504149-03 MW-18C	Total Recoverable	Water	2340 B-2021	
240-223130-4	L504149-04 MW-18D	Total Recoverable	Water	2340 B-2021	
240-223130-5	L504149-05 MWT-18A	Total Recoverable	Water	2340 B-2021	
240-223130-6	L504149-06 FB	Total Recoverable	Water	2340 B-2021	

Analysis Batch: 654281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-2	L504149-02 MW-18B	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-3	L504149-03 MW-18C	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-4	L504149-04 MW-18D	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-5	L504149-05 MWT-18A	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-6	L504149-06 FB	Total Recoverable	Water	200.8-1994 R5.4	653842
MB 240-653842/1-A	Method Blank	Total Recoverable	Water	200.8-1994 R5.4	653842
LCS 240-653842/3-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-2 MS	L504149-02 MW-18B	Total Recoverable	Water	200.8-1994 R5.4	653842
240-223130-2 MSD	L504149-02 MW-18B	Total Recoverable	Water	200.8-1994 R5.4	653842

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

General Chemistry

Analysis Batch: 653809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	2540D-2020	
240-223130-2	L504149-02 MW-18B	Total/NA	Water	2540D-2020	
240-223130-3	L504149-03 MW-18C	Total/NA	Water	2540D-2020	
MB 240-653809/1	Method Blank	Total/NA	Water	2540D-2020	
LCS 240-653809/2	Lab Control Sample	Total/NA	Water	2540D-2020	

Analysis Batch: 653852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-4	L504149-04 MW-18D	Total/NA	Water	2540D-2020	
240-223130-5	L504149-05 MWT-18A	Total/NA	Water	2540D-2020	
240-223130-6	L504149-06 FB	Total/NA	Water	2540D-2020	
MB 240-653852/1	Method Blank	Total/NA	Water	2540D-2020	
LCS 240-653852/2	Lab Control Sample	Total/NA	Water	2540D-2020	

Analysis Batch: 654012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	2540 C-2020	
240-223130-2	L504149-02 MW-18B	Total/NA	Water	2540 C-2020	
240-223130-3	L504149-03 MW-18C	Total/NA	Water	2540 C-2020	
240-223130-4	L504149-04 MW-18D	Total/NA	Water	2540 C-2020	
240-223130-5	L504149-05 MWT-18A	Total/NA	Water	2540 C-2020	
240-223130-6	L504149-06 FB	Total/NA	Water	2540 C-2020	
MB 240-654012/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 240-654012/2	Lab Control Sample	Total/NA	Water	2540 C-2020	

Analysis Batch: 654067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	300.0-1993 R2.1	
240-223130-2	L504149-02 MW-18B	Total/NA	Water	300.0-1993 R2.1	
240-223130-2	L504149-02 MW-18B	Total/NA	Water	300.0-1993 R2.1	
240-223130-3	L504149-03 MW-18C	Total/NA	Water	300.0-1993 R2.1	
240-223130-3	L504149-03 MW-18C	Total/NA	Water	300.0-1993 R2.1	
240-223130-4	L504149-04 MW-18D	Total/NA	Water	300.0-1993 R2.1	
240-223130-5	L504149-05 MWT-18A	Total/NA	Water	300.0-1993 R2.1	
240-223130-6	L504149-06 FB	Total/NA	Water	300.0-1993 R2.1	
MB 240-654067/3	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 240-654067/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
240-223130-4 MS	L504149-04 MW-18D	Total/NA	Water	300.0-1993 R2.1	
240-223130-4 MS	L504149-04 MW-18D	Total/NA	Water	300.0-1993 R2.1	
240-223130-4 MSD	L504149-04 MW-18D	Total/NA	Water	300.0-1993 R2.1	
240-223130-4 MSD	L504149-04 MW-18D	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 654559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	2320 B-2021	
240-223130-2	L504149-02 MW-18B	Total/NA	Water	2320 B-2021	
240-223130-3	L504149-03 MW-18C	Total/NA	Water	2320 B-2021	
240-223130-4	L504149-04 MW-18D	Total/NA	Water	2320 B-2021	
240-223130-5	L504149-05 MWT-18A	Total/NA	Water	2320 B-2021	
240-223130-6	L504149-06 FB	Total/NA	Water	2320 B-2021	
MB 240-654559/4	Method Blank	Total/NA	Water	2320 B-2021	

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

General Chemistry (Continued)

Analysis Batch: 654559 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1 DU	L504149-01 MW-18A	Total/NA	Water	2320 B-2021	

Rad

Prep Batch: 715328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	PrecSep-21	
240-223130-2	L504149-02 MW-18B	Total/NA	Water	PrecSep-21	
240-223130-3	L504149-03 MW-18C	Total/NA	Water	PrecSep-21	
240-223130-4	L504149-04 MW-18D	Total/NA	Water	PrecSep-21	
240-223130-5	L504149-05 MWT-18A	Total/NA	Water	PrecSep-21	
240-223130-6	L504149-06 FB	Total/NA	Water	PrecSep-21	
MB 160-715328/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-715328/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 715329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223130-1	L504149-01 MW-18A	Total/NA	Water	PrecSep_0	
240-223130-2	L504149-02 MW-18B	Total/NA	Water	PrecSep_0	
240-223130-3	L504149-03 MW-18C	Total/NA	Water	PrecSep_0	
240-223130-4	L504149-04 MW-18D	Total/NA	Water	PrecSep_0	
240-223130-5	L504149-05 MWT-18A	Total/NA	Water	PrecSep_0	
240-223130-6	L504149-06 FB	Total/NA	Water	PrecSep_0	
MB 160-715329/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-715329/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-01 MW-18A

Lab Sample ID: 240-223130-1

Date Collected: 04/24/25 09:37

Matrix: Water

Date Received: 04/26/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	654139	AJC	EET CLE	04/30/25 06:15
Total/NA	Prep	200.8			6586	MCMS	EET SSM	05/01/25 17:53
Total/NA	Analysis	200.8		1	6606	CW	EET SSM	05/02/25 15:19
Total/NA	Prep	200.8			6607	MCMS	EET SSM	05/02/25 16:38
Total/NA	Analysis	200.8		1	6623	CW	EET SSM	05/05/25 13:08
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654111	S4FJ	EET CLE	04/29/25 17:52
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654281	S4FJ	EET CLE	04/30/25 17:21
Total Recoverable	Analysis	2340 B-2021		1	654273	KLC	EET CLE	05/01/25 06:00
Total/NA	Prep	245.1-1994 R3.0			653846	BN	EET CLE	04/28/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	654220	GEV	EET CLE	04/30/25 10:07
Total/NA	Analysis	2320 B-2021		1	654559	PQD2	EET CLE	05/01/25 15:07
Total/NA	Analysis	2540 C-2020		1	654012	TAV2	EET CLE	04/29/25 10:50
Total/NA	Analysis	2540D-2020		1	653809	AAP	EET CLE	04/28/25 09:59
Total/NA	Analysis	300.0-1993 R2.1		1	654067	JMR	EET CLE	05/02/25 10:50
Total/NA	Prep	PrecSep-21			715328	MLT	EET SL	04/30/25 12:53
Total/NA	Analysis	903.0		1	719420	SWS	EET SL	05/27/25 08:20
Total/NA	Prep	PrecSep_0			715329	MLT	EET SL	04/30/25 12:57
Total/NA	Analysis	904.0		1	719032	SCB	EET SL	05/23/25 14:33
Total/NA	Analysis	Ra226_Ra228 Pos		1	719432	SCB	EET SL	05/27/25 14:18

Client Sample ID: L504149-02 MW-18B

Lab Sample ID: 240-223130-2

Date Collected: 04/24/25 10:58

Matrix: Water

Date Received: 04/26/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	654139	AJC	EET CLE	04/30/25 06:37
Total/NA	Prep	200.8			6586	MCMS	EET SSM	05/01/25 17:53
Total/NA	Analysis	200.8		1	6606	CW	EET SSM	05/02/25 15:33
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654111	S4FJ	EET CLE	04/29/25 17:55
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654281	S4FJ	EET CLE	04/30/25 17:23
Total Recoverable	Analysis	2340 B-2021		1	654273	KLC	EET CLE	05/01/25 06:00
Total/NA	Prep	245.1-1994 R3.0			653846	BN	EET CLE	04/28/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	654220	GEV	EET CLE	04/30/25 10:12
Total/NA	Analysis	2320 B-2021		1	654559	PQD2	EET CLE	05/01/25 15:17
Total/NA	Analysis	2540 C-2020		1	654012	TAV2	EET CLE	04/29/25 10:50
Total/NA	Analysis	2540D-2020		1	653809	AAP	EET CLE	04/28/25 09:59
Total/NA	Analysis	300.0-1993 R2.1		1	654067	JMR	EET CLE	05/02/25 11:08

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-02 MW-18B

Lab Sample ID: 240-223130-2

Date Collected: 04/24/25 10:58

Matrix: Water

Date Received: 04/26/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0-1993 R2.1		5	654067	JMR	EET CLE	05/02/25 11:18
Total/NA	Prep	PrecSep-21			715328	MLT	EET SL	04/30/25 12:53
Total/NA	Analysis	903.0		1	719420	SWS	EET SL	05/27/25 08:20
Total/NA	Prep	PrecSep_0			715329	MLT	EET SL	04/30/25 12:57
Total/NA	Analysis	904.0		1	719032	SCB	EET SL	05/23/25 14:33
Total/NA	Analysis	Ra226_Ra228 Pos		1	719432	SCB	EET SL	05/27/25 14:18

Client Sample ID: L504149-03 MW-18C

Lab Sample ID: 240-223130-3

Date Collected: 04/24/25 12:12

Matrix: Water

Date Received: 04/26/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	654139	AJC	EET CLE	04/30/25 06:50
Total/NA	Prep	200.8			6586	MCMS	EET SSM	05/01/25 17:53
Total/NA	Analysis	200.8		1	6606	CW	EET SSM	05/02/25 15:35
Total/NA	Prep	200.8			6607	MCMS	EET SSM	05/02/25 16:38
Total/NA	Analysis	200.8		1	6623	CW	EET SSM	05/05/25 13:27
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654111	S4FJ	EET CLE	04/29/25 18:08
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654281	S4FJ	EET CLE	04/30/25 17:34
Total Recoverable	Analysis	2340 B-2021		1	654273	KLC	EET CLE	05/01/25 06:00
Total/NA	Prep	245.1-1994 R3.0			653846	BN	EET CLE	04/28/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	654220	GEV	EET CLE	04/30/25 10:14
Total/NA	Analysis	2320 B-2021		1	654559	PQD2	EET CLE	05/01/25 15:21
Total/NA	Analysis	2540 C-2020		1	654012	TAV2	EET CLE	04/29/25 10:50
Total/NA	Analysis	2540D-2020		1	653809	AAP	EET CLE	04/28/25 09:59
Total/NA	Analysis	300.0-1993 R2.1		1	654067	JMR	EET CLE	05/02/25 11:27
Total/NA	Analysis	300.0-1993 R2.1		5	654067	JMR	EET CLE	05/02/25 11:36
Total/NA	Prep	PrecSep-21			715328	MLT	EET SL	04/30/25 12:53
Total/NA	Analysis	903.0		1	719413	SWS	EET SL	05/27/25 10:18
Total/NA	Prep	PrecSep_0			715329	MLT	EET SL	04/30/25 12:57
Total/NA	Analysis	904.0		1	719032	SCB	EET SL	05/23/25 14:33
Total/NA	Analysis	Ra226_Ra228 Pos		1	719432	SCB	EET SL	05/27/25 14:18

Client Sample ID: L504149-04 MW-18D

Lab Sample ID: 240-223130-4

Date Collected: 04/24/25 13:27

Matrix: Water

Date Received: 04/26/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	654139	AJC	EET CLE	04/30/25 06:55

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-04 MW-18D

Lab Sample ID: 240-223130-4

Date Collected: 04/24/25 13:27

Matrix: Water

Date Received: 04/26/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	200.8			6586	MCMS	EET SSM	05/01/25 17:53
Total/NA	Analysis	200.8		1	6606	CW	EET SSM	05/02/25 15:38
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654111	S4FJ	EET CLE	04/29/25 18:11
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654281	S4FJ	EET CLE	04/30/25 17:37
Total Recoverable	Analysis	2340 B-2021		1	654273	KLC	EET CLE	05/01/25 06:00
Total/NA	Prep	245.1-1994 R3.0			653846	BN	EET CLE	04/28/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	654220	GEV	EET CLE	04/30/25 10:16
Total/NA	Analysis	2320 B-2021		1	654559	PQD2	EET CLE	05/01/25 15:27
Total/NA	Analysis	2540 C-2020		1	654012	TAV2	EET CLE	04/29/25 10:50
Total/NA	Analysis	2540D-2020		1	653852	AAP	EET CLE	04/28/25 11:17
Total/NA	Analysis	300.0-1993 R2.1		1	654067	JMR	EET CLE	05/02/25 11:45
Total/NA	Prep	PrecSep-21			715328	MLT	EET SL	04/30/25 12:53
Total/NA	Analysis	903.0		1	719413	SWS	EET SL	05/27/25 10:18
Total/NA	Prep	PrecSep_0			715329	MLT	EET SL	04/30/25 12:57
Total/NA	Analysis	904.0		1	719032	SCB	EET SL	05/23/25 14:34
Total/NA	Analysis	Ra226_Ra228 Pos		1	719432	SCB	EET SL	05/27/25 14:18

Client Sample ID: L504149-05 MWT-18A

Lab Sample ID: 240-223130-5

Date Collected: 04/24/25 09:37

Matrix: Water

Date Received: 04/26/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	654139	AJC	EET CLE	04/30/25 07:00
Total/NA	Prep	200.8			6680	RMN	EET SSM	05/07/25 16:31
Total/NA	Analysis	200.8		1	6711	CW	EET SSM	05/08/25 14:25
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654111	S4FJ	EET CLE	04/29/25 18:13
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654281	S4FJ	EET CLE	04/30/25 17:39
Total Recoverable	Analysis	2340 B-2021		1	654273	KLC	EET CLE	05/01/25 06:00
Total/NA	Prep	245.1-1994 R3.0			653846	BN	EET CLE	04/28/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	654220	GEV	EET CLE	04/30/25 10:18
Total/NA	Analysis	2320 B-2021		1	654559	PQD2	EET CLE	05/01/25 15:34
Total/NA	Analysis	2540 C-2020		1	654012	TAV2	EET CLE	04/29/25 10:50
Total/NA	Analysis	2540D-2020		1	653852	AAP	EET CLE	04/28/25 11:17
Total/NA	Analysis	300.0-1993 R2.1		1	654067	JMR	EET CLE	05/03/25 00:01
Total/NA	Prep	PrecSep-21			715328	MLT	EET SL	04/30/25 12:53
Total/NA	Analysis	903.0		1	719413	SWS	EET SL	05/27/25 10:18
Total/NA	Prep	PrecSep_0			715329	MLT	EET SL	04/30/25 12:57
Total/NA	Analysis	904.0		1	719032	SCB	EET SL	05/23/25 14:34

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Client Sample ID: L504149-05 MWT-18A

Lab Sample ID: 240-223130-5

Date Collected: 04/24/25 09:37

Matrix: Water

Date Received: 04/26/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Ra226_Ra228 Pos		1	719432	SCB	EET SL	05/27/25 14:18

Client Sample ID: L504149-06 FB

Lab Sample ID: 240-223130-6

Date Collected: 04/24/25 08:24

Matrix: Water

Date Received: 04/26/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	654139	AJC	EET CLE	04/30/25 07:04
Total/NA	Prep	200.8			6701	RMN	EET SSM	05/08/25 16:08
Total/NA	Analysis	200.8		1	6733	CW	EET SSM	05/09/25 12:41
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654111	S4FJ	EET CLE	04/29/25 18:21
Total Recoverable	Prep	200.7			653842	BN	EET CLE	04/28/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	654281	S4FJ	EET CLE	04/30/25 17:47
Total Recoverable	Analysis	2340 B-2021		1	654273	KLC	EET CLE	05/01/25 06:00
Total/NA	Prep	245.1-1994 R3.0			653846	BN	EET CLE	04/28/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	654220	GEV	EET CLE	04/30/25 10:19
Total/NA	Analysis	2320 B-2021		1	654559	PQD2	EET CLE	05/01/25 15:39
Total/NA	Analysis	2540 C-2020		1	654012	TAV2	EET CLE	04/29/25 10:50
Total/NA	Analysis	2540D-2020		1	653852	AAP	EET CLE	04/28/25 11:17
Total/NA	Analysis	300.0-1993 R2.1		1	654067	JMR	EET CLE	05/03/25 00:19
Total/NA	Prep	PrecSep-21			715328	MLT	EET SL	04/30/25 12:53
Total/NA	Analysis	903.0		1	719420	SWS	EET SL	05/27/25 10:18
Total/NA	Prep	PrecSep_0			715329	MLT	EET SL	04/30/25 12:57
Total/NA	Analysis	904.0		1	719032	SCB	EET SL	05/23/25 14:34
Total/NA	Analysis	Ra226_Ra228 Pos		1	719432	SCB	EET SL	05/27/25 14:18

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4062	02-27-26

Laboratory: Eurofins Seattle Specialty Metals

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	20-004	02-19-27
ANAB	Dept. of Defense ELAP	L2236	01-19-27
ANAB	Dept. of Energy	L2236.01	01-19-27
ANAB	ISO/IEC 17025	L2236	01-19-27
California	State	2954	07-08-26
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-26
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-24-28
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

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	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
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	06-30-25
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
MI - RadChem Recognition	State	9005	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Cleveland

Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-223130-1

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-26
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	06-30-25
Oklahoma	NELAP	9997	08-31-25
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

Chain of Custody

Return Samples to: Eurofins Michigan
38855 Hills Tech Dr.
Farmington Hills, MI 48331



240-223130 COC

Contains Rush Work: ☐

Contains Methods That May Expire Soon: ☒

Client Contact Info								Project Info		Methods and Bottles																																																																																																																																							
Name: Jennifer Caporale Address : 1110 South Pennsylvania Address 2: City, State Zip: Lansing, Michigan 48901 Phone: 517-702-6482 Email: Jennifer.Caporale@LBWL.com Deliverables:								Company: Lansing Board of Water & Light Purchase Order: Purchase Order not required Work Order: Requested TAT: Project Number: 24034575 Sample State: MI Special Instructions: Needs to have Premium EDD; Level 4 report. Please use the reporting limits that are attached to this project.		Project Manager: Howell, Leslie Project Reference: Sampler: Marc Wahrer Description: Erickson Projects Site Name: Erickson Projects		<table border="1"> <tr> <td>300.0_28D Chloride, Fluoride & Sulfate</td> <td>200.8 Project List (19)</td> <td>2320B Bicarbonate & Carbonate Alkalinity</td> <td>Ra226_228AS_P Combined Radium-226 and Radium-228</td> <td>245.1 Mercury</td> <td>SM2340B Total Hardness (as CaCO3) by calculation</td> <td>200.7 Total Boron</td> <td>904.0 Standard Target List</td> <td>200.8_CWA Iron & Zinc</td> <td>2540C_Calcd Total Dissolved Solids</td> <td>903.0 Standard Target List</td> <td>2540D Solids, Total Suspended (TSS)</td> <td>Plastic 250ml - with Nitric Acid</td> <td>Plastic 500ml - unpreserved</td> <td>Plastic 1 liter - unpreserved</td> <td>Plastic 60 mL - unpreserved</td> <td>Plastic 500ml - with Nitric Acid</td> <td>Plastic 1 liter - Nitric Acid</td> <td>Total Bottles For Sample</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>1</td><td>1</td><td>2</td><td>1</td><td>2</td><td>8</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>1</td><td>1</td><td>2</td><td>1</td><td>2</td><td>8</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>1</td><td>1</td><td>2</td><td>1</td><td>2</td><td>8</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>1</td><td>1</td><td>2</td><td>1</td><td>2</td><td>8</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>1</td><td>1</td><td>2</td><td>1</td><td>2</td><td>8</td> </tr> </table>																				300.0_28D Chloride, Fluoride & Sulfate	200.8 Project List (19)	2320B Bicarbonate & Carbonate Alkalinity	Ra226_228AS_P Combined Radium-226 and Radium-228	245.1 Mercury	SM2340B Total Hardness (as CaCO3) by calculation	200.7 Total Boron	904.0 Standard Target List	200.8_CWA Iron & Zinc	2540C_Calcd Total Dissolved Solids	903.0 Standard Target List	2540D Solids, Total Suspended (TSS)	Plastic 250ml - with Nitric Acid	Plastic 500ml - unpreserved	Plastic 1 liter - unpreserved	Plastic 60 mL - unpreserved	Plastic 500ml - with Nitric Acid	Plastic 1 liter - Nitric Acid	Total Bottles For Sample	X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2	8	X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2	8	X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2	8	X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2	8	X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2	8
300.0_28D Chloride, Fluoride & Sulfate	200.8 Project List (19)	2320B Bicarbonate & Carbonate Alkalinity	Ra226_228AS_P Combined Radium-226 and Radium-228	245.1 Mercury	SM2340B Total Hardness (as CaCO3) by calculation	200.7 Total Boron	904.0 Standard Target List	200.8_CWA Iron & Zinc	2540C_Calcd Total Dissolved Solids	903.0 Standard Target List	2540D Solids, Total Suspended (TSS)	Plastic 250ml - with Nitric Acid	Plastic 500ml - unpreserved	Plastic 1 liter - unpreserved	Plastic 60 mL - unpreserved	Plastic 500ml - with Nitric Acid	Plastic 1 liter - Nitric Acid	Total Bottles For Sample																																																																																																																															
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X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2	8																																																																																																																															

Samples							
#	Sample Name	Type	Matrix	Date/Time (24hr)	MS / MSD	Instructions/Comments	Lat/Long
1	L504149-01 MW-18A	Grab	Water	04/24/25 09:37			
2	L504149-02 MW-18B	Grab	Water	04/24/25 10:58			
3	L504149-03 MW-18C	Grab	Water	04/24/25 12:12			
4	L504149-04 MW-18D	Grab	Water	04/24/25 13:27			
5	L504149-05 MWT-18A	Grab	Water	04/24/25 09:37			
6	L504149-06 FB	Grab	Water	04/24/25 08:24			

Possible Hazards :		Unknown	
Sample Disposal (A fee may be assessed, if samples are retained longer than 1 month) :		Disposal by Lab	
Custody History (All dates and times have been converted to the Eastern time zone and are in 24 Hr format.)			
eCOC Submitted By:	Date/Time:	Samples Relinquished To:	Date/Time:
Jennifer Caporale	04/25/25 12:56	Jennifer Caporale	04/25/25 12:56
		Received By: JMCROSKO 4/26/25 08W	

Coolers								
Cooler Name	Cooler Description	QR/Barcode	Uncorrected Cooler Temperature (°C)	Corrected Cooler Temperature	Thermometer ID	Temperature Checked By	Cooler Ice Type	Cooler Packing Type
MIC20250425A001								
MIC20250425A001								

Eurofins - Cleveland Sample Receipt Form/Narrative		Login # : _____	
Barborton Facility			
Client <u>Lansing Board of Health</u>	Opened on <u>6/27/11</u>	Cooler unpacked by: <u>JHOBOSKO</u>	
Cooler Received on <u>4/10/13</u>	UPS <u>Waypoint</u>	Client Drop Off	Eurofins Courier Other
FedEx 1 st Grd Exp	FAS	Waypoint	
Receipt After-hours Drop-off Date/Time		Storage Location	
Eurofins Cooler # <u>22</u>	Room Box	Client Cooler	Box Other
Packing material used. Bubble Wrap Foam Plastic Bag None Other			
COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice <u>Water</u> None			
1 Cooler temperature upon receipt	IR GUN # <u>13</u>	(CF <u>TD 5</u> °C)	Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C
Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC			
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> -Were the seals on the outside of the cooler(s) signed & dated? <u>Yes</u> No NA -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <u>Yes</u> No NA -Were tamper/custody seals intact and uncompromised? <u>Yes</u> No NA 3 Shippers' packing slip attached to the cooler(s)? <u>Yes</u> No 4 Did custody papers accompany the sample(s)? <u>Yes</u> No 5 Were the custody papers relinquished & signed in the appropriate place? <u>Yes</u> No 6 Was/were the person(s) who collected the samples clearly identified on the COC? <u>Yes</u> No 7 Did all bottles arrive in good condition (Unbroken)? <u>Yes</u> No 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? <u>Yes</u> No 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? <u>Yes</u> No 10 Were correct bottle(s) used for the test(s) indicated? <u>Yes</u> No 11 Sufficient quantity received to perform indicated analyses? <u>Yes</u> No 12 Are these work share samples and all listed on the COC? <u>Yes</u> No 13 Were all preserved sample(s) at the correct pH upon receipt? <u>Yes</u> No NA pH Strip Lot# HC457151 14 Were VOAs on the COC? <u>Yes</u> No 15 Were air bubbles > 6 mm in any VOA vials? <u>Yes</u> No NA Larger than this. <u>Yes</u> No 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ <u>Yes</u> No 17 Was a LL Hg or Me Hg trip blank present? <u>Yes</u> No			
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____ Concerning _____			
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page		Samples processed by _____	
19. SAMPLE CONDITION			
Sample(s) _____ were received after the recommended holding time had expired.			
Sample(s) _____ were received in a broken container			
Sample(s) _____ were received with bubble > 6 mm in diameter (Notify PM)			
20. SAMPLE PRESERVATION			
Sample(s) _____ were further preserved in the laboratory			
Time preserved. _____ Preservative(s) added/Lot number(s) _____			
VOA Sample Preservation - Date/Time VOAs Frozen _____			

Login #. _____

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

[illegible]

4/26/2025

Login Container Summary Report

240-2223130

5/27/2025

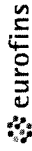
Temperature readings

Client Sample ID	Lab ID	Container Type	Container			Preservation	Preservation
			pH	Temp	Added		
L504149-01 MW-18A	240-2223130-A-1	Plastic 60 mL - unpreserved					
L504149-01 MW-18A	240-2223130-B-1	Plastic 60 mL - unpreserved					
L504149-01 MW-18A	240-2223130-C-1	Plastic 250ml - with Nitric Acid					
L504149-01 MW-18A	240-2223130-D-1	Plastic 500ml - unpreserved					
L504149-01 MW-18A	240-2223130-E-1	Plastic 500ml - with Nitric Acid	<2				
L504149-01 MW-18A	240-2223130-F-1	Plastic 1 liter - unpreserved					
L504149-01 MW-18A	240-2223130-G-1	Plastic 1 liter - Nitric Acid					
L504149-01 MW-18A	240-2223130-H-1	Plastic 1 liter - Nitric Acid					
L504149-02 MW-18B	240-2223130-A-2	Plastic 60 mL - unpreserved					
L504149-02 MW-18B	240-2223130-B-2	Plastic 60 mL - unpreserved					
L504149-02 MW-18B	240-2223130-C-2	Plastic 250ml - with Nitric Acid					
L504149-02 MW-18B	240-2223130-D-2	Plastic 500ml - unpreserved					
L504149-02 MW-18B	240-2223130-E-2	Plastic 500ml - with Nitric Acid	<2				
L504149-02 MW-18B	240-2223130-F-2	Plastic 1 liter - unpreserved					
L504149-02 MW-18B	240-2223130-G-2	Plastic 1 liter - Nitric Acid					
L504149-02 MW-18B	240-2223130-H-2	Plastic 1 liter - Nitric Acid					
L504149-03 MW-18C	240-2223130-A-3	Plastic 60 mL - unpreserved					
L504149-03 MW-18C	240-2223130-B-3	Plastic 60 mL - unpreserved					
L504149-03 MW-18C	240-2223130-C-3	Plastic 250ml - with Nitric Acid					
L504149-03 MW-18C	240-2223130-D-3	Plastic 500ml - unpreserved					
L504149-03 MW-18C	240-2223130-E-3	Plastic 500ml - with Nitric Acid	<2				
L504149-03 MW-18C	240-2223130-F-3	Plastic 1 liter - unpreserved					
L504149-03 MW-18C	240-2223130-G-3	Plastic 1 liter - Nitric Acid					
L504149-03 MW-18C	240-2223130-H-3	Plastic 1 liter - Nitric Acid					
L504149-04 MW-18D	240-2223130-A-4	Plastic 60 mL - unpreserved					
L504149-04 MW-18D	240-2223130-B-4	Plastic 60 mL - unpreserved					
L504149-04 MW-18D	240-2223130-C-4	Plastic 250ml - with Nitric Acid					
L504149-04 MW-18D	240-2223130-D-4	Plastic 500ml - unpreserved	<2				
L504149-04 MW-18D	240-2223130-E-4	Plastic 500ml - with Nitric Acid					
L504149-04 MW-18D	240-2223130-F-4	Plastic 1 liter - unpreserved					
L504149-04 MW-18D	240-2223130-G-4	Plastic 1 liter - Nitric Acid					
L504149-04 MW-18D	240-2223130-H-4	Plastic 1 liter - Nitric Acid					
L504149-05 MWT-18A	240-2223130-A-5	Plastic 60 mL - unpreserved					
L504149-05 MWT-18A	240-2223130-B-5	Plastic 60 mL - unpreserved					
L504149-05 MWT-18A	240-2223130-C-5	Plastic 250ml - with Nitric Acid					

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservation</u> <u>Temp</u>	<u>Preservation</u> <u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
L504149-05 MWT-18A	240-223130-D-5	Plastic 500ml - unpreserved				
L504149-05 MWT-18A	240-223130-E-5	Plastic 500ml - with Nitric Acid	<2			
L504149-05 MWT-18A	240-223130-F-5	Plastic 1 liter - unpreserved				
L504149-05 MWT-18A	240-223130-G-5	Plastic 1 liter - Nitric Acid				
L504149-05 MWT-18A	240-223130-H-5	Plastic 1 liter - Nitric Acid				
L504149-06 FB	240-223130-A-6	Plastic 60 mL - unpreserved				
L504149-06 FB	240-223130-B-6	Plastic 60 mL - unpreserved				
L504149-06 FB	240-223130-C-6	Plastic 250ml - with Nitric Acid				
L504149-06 FB	240-223130-D-6	Plastic 500ml - unpreserved				
L504149-06 FB	240-223130-E-6	Plastic 500ml - with Nitric Acid	<2			
L504149-06 FB	240-223130-F-6	Plastic 1 liter - unpreserved				
L504149-06 FB	240-223130-G-6	Plastic 1 liter - Nitric Acid				
L504149-06 FB	240-223130-H-6	Plastic 1 liter - Nitric Acid				

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Howell, Leslie	Carrier Tracking No(s): N/A	GOC No: 240-201669.1					
Client Contact:		Phone: N/A	E-Mail: Leslie.Howell@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1					
Shipping/Receiving		Company: TestAmerica Laboratories, Inc.	Accreditations Required (See note): NELAP - Oregon							
Address: 13715 Rider Trail North,		Preservation Codes:								
City: Earth City										
State, Zip: MO, 63045										
Phone: 314-298-8566(Tel) 314-298-8757(Fax)										
Email: N/A										
Project Name: Erickson Projects										
Site: N/A										
PO #: N/A										
WO #: N/A										
Project #: 24034575										
SSOW#: N/A										
Due Date Requested: 5/12/2025		Analysis Requested								
TAT Requested (days): N/A										
Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226_228GFP_C_P	Total Number of containers	Special Instructions/Note:
L504149-01 MW-18A (240-223130-1)	4/24/25	09:37 Eastern	G	Water		X	X	X	2	
L504149-02 MW-18B (240-223130-2)	4/24/25	10:58 Eastern	G	Water		X	X	X	2	
L504149-03 MW-18C (240-223130-3)	4/24/25	12:12 Eastern	G	Water		X	X	X	2	
L504149-04 MW-18D (240-223130-4)	4/24/25	13:27 Eastern	G	Water		X	X	X	2	
L504149-05 MWT-18A (240-223130-5)	4/24/25	09:37 Eastern	G	Water		X	X	X	2	
L504149-06 FB (240-223130-6)	4/24/25	08:24 Eastern	G	Water		X	X	X	2	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested: I, II, III, IV, Other (specify)										
Primary Deliverable Rank: 2										
Special Instructions/QC Requirements:										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months										
Empty Kit Relinquished by:										
Date:										
Time:										
Relinquished by: MALISSA LOAR										
Date/Time: 4/23/25 8AM										
Company: M. Pinette										
Relinquished by: Meadow Pinette										
Date/Time:										
Company:										
Relinquished by:										
Date/Time:										
Company:										
Custody Seals Intact: ☐ Yes ☐ No										
Custody Seal No.:										
Cooler Temperature(s) °C and Other Remarks:										

Ver: 10/10/2024

Chain of Custody Record

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-223130-1

Login Number: 223130

List Number: 3

Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals

List Creation: 04/29/25 01:03 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.	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	
Is the Field Sampler's name present on COC?	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	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-223130-1

Login Number: 223130

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 04/29/25 11:05 AM

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	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jennifer Caporale
Lansing Board of Water & Light
1110 South Pennsylvania
Lansing, Michigan 48901

Generated 6/4/2025 11:43:32 AM

JOB DESCRIPTION

Erickson Projects

JOB NUMBER

240-224360-1

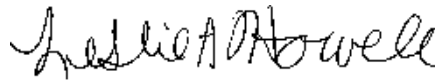
Eurofins Cleveland

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 Environment Testing North Central, LLC Project Manager.

Authorization



Generated
6/4/2025 11:43:32 AM

Authorized for release by
Leslie Howell, Project Manager I
Leslie.Howell@et.eurofinsus.com
(330)966-9266

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Definitions/Glossary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: Lansing Board of Water & Light
Project: Erickson Projects

Job ID: 240-224360-1

Job ID: 240-224360-1

Eurofins Cleveland

Job Narrative 240-224360-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/14/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.9°C, 3.2°C and 3.6°C.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Method Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Method	Method Description	Protocol	Laboratory
200.7 R4.4-1994	Metals (ICP)	EPA	EET CLE
200.8	Metals (ICP/MS)	EPA	EET SSM
200.8-1994 R5.4	Metals (ICP/MS)	EPA	EET CLE
2340 B-2021	Total Hardness (as CaCO3) by calculation	SM	EET CLE
245.1-1994 R3.0	Mercury (CVAA)	EPA	EET CLE
2320 B-2021	Alkalinity	SM	EET CLE
2540 C-2020	Solids, Total Dissolved (TDS)	SM	EET CLE
2540D-2020	Solids, Total Suspended (TSS)	SM	EET CLE
300.0-1993 R2.1	Anions, Ion Chromatography	EPA	EET CLE
200.7	Preparation, Total Recoverable Metals	EPA	EET CLE
200.8	Preparation, Total Metals	EPA	EET SSM
200.8-1994 R5.4	Preparation, Total Recoverable Metals	EPA	EET CLE
245.1-1994 R3.0	Preparation, Mercury	EPA	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-224360-1	L505202-01 MW-19A	Water	05/12/25 11:02	05/14/25 08:00
240-224360-2	L505202-02 MW-19B	Water	05/12/25 12:42	05/14/25 08:00
240-224360-3	L505202-03 MW-19C	Water	05/12/25 14:27	05/14/25 08:00
240-224360-4	L505202-04 MW-19D	Water	05/12/25 13:20	05/14/25 08:00
240-224360-5	L505202-05 MWT-19A	Water	05/12/25 11:02	05/14/25 08:00
240-224360-6	FIELD BLANK	Water	05/12/25 09:25	05/14/25 08:00
240-224360-7	EQUIPMENT BLANK	Water	05/12/25 09:10	05/14/25 08:00

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-01 MW-19A

Lab Sample ID: 240-224360-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.23		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0027	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.11		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cadmium	0.000081	J	0.0010	0.000077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.00054	J	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0030	J	0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.011		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	200		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	63		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.013		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	4.5		0.10	0.013	mg/L	1			200.8	Total/NA
Zinc	0.0025	J	0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	750		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	390	B	5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	930		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	7.0		4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	120		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.13		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	290		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: L505202-02 MW-19B

Lab Sample ID: 240-224360-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Boron	0.55		0.10	0.057	mg/L	1			200.7 R4.4-1994	Total Recoverable
Arsenic	0.0036	J	0.0050	0.00075	mg/L	1			200.8-1994 R5.4	Total Recoverable
Barium	0.057		0.0050	0.00077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cadmium	0.00018	J	0.0010	0.000077	mg/L	1			200.8-1994 R5.4	Total Recoverable
Cobalt	0.00012	J	0.0010	0.000086	mg/L	1			200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0029	J	0.0050	0.0011	mg/L	1			200.8-1994 R5.4	Total Recoverable
Nickel	0.015		0.0020	0.0015	mg/L	1			200.8-1994 R5.4	Total Recoverable
Thallium	0.00057	J	0.0010	0.00051	mg/L	1			200.8-1994 R5.4	Total Recoverable
Calcium	180		1.0	0.25	mg/L	1			200.8-1994 R5.4	Total Recoverable
Magnesium	66		1.0	0.061	mg/L	1			200.8-1994 R5.4	Total Recoverable
Lithium	0.017		0.0080	0.0034	mg/L	1			200.8-1994 R5.4	Total Recoverable
Iron	2.1		0.10	0.013	mg/L	1			200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-02 MW-19B (Continued)

Lab Sample ID: 240-224360-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Hardness as calcium carbonate	730		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	420	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	940		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	4.8		4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	67		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.18		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	310		5.0	1.7	mg/L	5		300.0-1993 R2.1	Total/NA

Client Sample ID: L505202-03 MW-19C

Lab Sample ID: 240-224360-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.64		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Barium	0.054		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cobalt	0.00013	J	0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0020	J	0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	67		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	23		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.026		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	0.80		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0011	J	0.0070	0.00093	mg/L	1		200.8	Total/NA
Hardness as calcium carbonate	260		33	33	mg/L	1		2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO3	320	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	300		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	8.2		4.0	0.40	mg/L	1		2540D-2020	Total/NA
Chloride	2.0		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	0.35		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	15		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L505202-04 MW-19D

Lab Sample ID: 240-224360-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	3.2		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Boron, Dissolved	3.1		0.10	0.057	mg/L	1		200.7 R4.4-1994	Dissolved
Arsenic	0.0021	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.034		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Beryllium	0.00073	J	0.0010	0.00027	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cobalt	0.0019		0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total Recoverable
Chromium	0.0049	J	0.0050	0.0012	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0015	J	0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-04 MW-19D (Continued)

Lab Sample ID: 240-224360-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.0047		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lead	0.0043		0.0010	0.00045	mg/L	1		200.8-1994 R5.4	Total Recoverable
Vanadium	0.0053		0.0050	0.00082	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	6.4		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	3.1		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.025		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Arsenic, Dissolved	0.0017	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Dissolved
Barium, Dissolved	0.010		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Dissolved
Cobalt, Dissolved	0.00034	J	0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Dissolved
Molybdenum, Dissolved	0.0016	J	0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Dissolved
Antimony, Dissolved	0.00063	J	0.0020	0.00057	mg/L	1		200.8-1994 R5.4	Dissolved
Vanadium, Dissolved	0.0011	J	0.0050	0.00082	mg/L	1		200.8-1994 R5.4	Dissolved
Calcium, Dissolved	3.8		1.0	0.25	mg/L	1		200.8-1994 R5.4	Dissolved
Magnesium, Dissolved	1.2		1.0	0.061	mg/L	1		200.8-1994 R5.4	Dissolved
Lithium, Dissolved	0.019		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Dissolved
Iron	3.7		0.10	0.013	mg/L	1		200.8	Total/NA
Zinc	0.0099		0.0070	0.00093	mg/L	1		200.8	Total/NA
Iron, Dissolved	0.32		0.10	0.013	mg/L	1		200.8	Dissolved
Zinc, Dissolved	0.0031	J	0.0070	0.00093	mg/L	1		200.8	Dissolved
Bicarbonate Alkalinity as CaCO3	330	B	5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Carbonate Alkalinity as CaCO3	52		5.0	2.6	mg/L	1		2320 B-2021	Total/NA
Total Dissolved Solids	510		10	7.8	mg/L	1		2540 C-2020	Total/NA
Total Suspended Solids	36		6.2	0.62	mg/L	1		2540D-2020	Total/NA
Chloride	7.7		1.0	0.13	mg/L	1		300.0-1993 R2.1	Total/NA
Fluoride	1.5		0.050	0.024	mg/L	1		300.0-1993 R2.1	Total/NA
Sulfate	3.1		1.0	0.35	mg/L	1		300.0-1993 R2.1	Total/NA

Client Sample ID: L505202-05 MWT-19A

Lab Sample ID: 240-224360-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.24		0.10	0.057	mg/L	1		200.7 R4.4-1994	Total Recoverable
Arsenic	0.0026	J	0.0050	0.00075	mg/L	1		200.8-1994 R5.4	Total Recoverable
Barium	0.11		0.0050	0.00077	mg/L	1		200.8-1994 R5.4	Total Recoverable
Cobalt	0.00049	J	0.0010	0.000086	mg/L	1		200.8-1994 R5.4	Total Recoverable
Molybdenum	0.0025	J	0.0050	0.0011	mg/L	1		200.8-1994 R5.4	Total Recoverable
Nickel	0.010		0.0020	0.0015	mg/L	1		200.8-1994 R5.4	Total Recoverable
Calcium	190		1.0	0.25	mg/L	1		200.8-1994 R5.4	Total Recoverable
Magnesium	61		1.0	0.061	mg/L	1		200.8-1994 R5.4	Total Recoverable
Lithium	0.013		0.0080	0.0034	mg/L	1		200.8-1994 R5.4	Total Recoverable
Iron	4.5		0.10	0.013	mg/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-05 MWT-19A (Continued)

Lab Sample ID: 240-224360-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Zinc	0.0018	J	0.0070	0.00093	mg/L	1			200.8	Total/NA
Hardness as calcium carbonate	730		33	33	mg/L	1			2340 B-2021	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	390	B	5.0	2.6	mg/L	1			2320 B-2021	Total/NA
Total Dissolved Solids	970		10	7.8	mg/L	1			2540 C-2020	Total/NA
Total Suspended Solids	8.8		4.0	0.40	mg/L	1			2540D-2020	Total/NA
Chloride	120		1.0	0.13	mg/L	1			300.0-1993 R2.1	Total/NA
Fluoride	0.12		0.050	0.024	mg/L	1			300.0-1993 R2.1	Total/NA
Sulfate	280		5.0	1.7	mg/L	5			300.0-1993 R2.1	Total/NA

Client Sample ID: FIELD BLANK

Lab Sample ID: 240-224360-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Zinc	0.00097	J	0.0070	0.00093	mg/L	1			200.8	Total/NA
Bicarbonate Alkalinity as CaCO ₃	7.1	B	5.0	2.6	mg/L	1			2320 B-2021	Total/NA

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 240-224360-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-01 MW-19A

Lab Sample ID: 240-224360-1

Date Collected: 05/12/25 11:02

Matrix: Water

Date Received: 05/14/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.23		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 13:40	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 18:02	1
Arsenic	0.0027	J	0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 18:02	1
Barium	0.11		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 18:02	1
Beryllium	ND		0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 18:02	1
Cadmium	0.000081	J	0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 18:02	1
Cobalt	0.00054	J	0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 18:02	1
Chromium	ND		0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 18:02	1
Copper	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 18:02	1
Molybdenum	0.0030	J	0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 18:02	1
Nickel	0.011		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 18:02	1
Lead	ND		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 18:02	1
Antimony	ND		0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 18:02	1
Selenium	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 18:02	1
Thallium	ND		0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 18:02	1
Vanadium	ND		0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 18:02	1
Calcium	200		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 18:02	1
Magnesium	63		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 18:02	1
Lithium	0.013		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 18:02	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.5		0.10	0.013	mg/L		05/16/25 14:59	05/19/25 14:27	1
Zinc	0.0025	J	0.0070	0.00093	mg/L		05/16/25 14:59	05/19/25 14:27	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	750		33	33	mg/L			05/22/25 08:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	390	B	5.0	2.6	mg/L			05/14/25 19:01	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/14/25 19:01	1
Total Dissolved Solids (SM 2540 C-2020)	930		10	7.8	mg/L			05/15/25 09:45	1
Total Suspended Solids (SM 2540D-2020)	7.0		4.0	0.40	mg/L			05/15/25 11:43	1
Chloride (EPA 300.0-1993 R2.1)	120		1.0	0.13	mg/L			05/17/25 22:23	1
Fluoride (EPA 300.0-1993 R2.1)	0.13		0.050	0.024	mg/L			05/17/25 22:23	1
Sulfate (EPA 300.0-1993 R2.1)	290		5.0	1.7	mg/L			05/17/25 22:44	5

Eurofins Cleveland

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-02 MW-19B

Lab Sample ID: 240-224360-2

Date Collected: 05/12/25 12:42

Matrix: Water

Date Received: 05/14/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.55		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 14:02	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 18:15	1
Arsenic	0.0036	J	0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 18:15	1
Barium	0.057		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 18:15	1
Beryllium	ND		0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 18:15	1
Cadmium	0.00018	J	0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 18:15	1
Cobalt	0.00012	J	0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 18:15	1
Chromium	ND		0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 18:15	1
Copper	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 18:15	1
Molybdenum	0.0029	J	0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 18:15	1
Nickel	0.015		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 18:15	1
Lead	ND		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 18:15	1
Antimony	ND		0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 18:15	1
Selenium	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 18:15	1
Thallium	0.00057	J	0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 18:15	1
Vanadium	ND		0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 18:15	1
Calcium	180		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 18:15	1
Magnesium	66		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 18:15	1
Lithium	0.017		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 18:15	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.1		0.10	0.013	mg/L		05/16/25 14:59	05/19/25 14:41	1
Zinc	ND		0.0070	0.00093	mg/L		05/16/25 14:59	05/19/25 14:41	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	730		33	33	mg/L			05/22/25 08:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	420	B	5.0	2.6	mg/L			05/14/25 19:07	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/14/25 19:07	1
Total Dissolved Solids (SM 2540 C-2020)	940		10	7.8	mg/L			05/15/25 09:45	1
Total Suspended Solids (SM 2540D-2020)	4.8		4.0	0.40	mg/L			05/15/25 11:43	1
Chloride (EPA 300.0-1993 R2.1)	67		1.0	0.13	mg/L			05/17/25 23:05	1
Fluoride (EPA 300.0-1993 R2.1)	0.18		0.050	0.024	mg/L			05/17/25 23:05	1
Sulfate (EPA 300.0-1993 R2.1)	310		5.0	1.7	mg/L			05/17/25 23:26	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-03 MW-19C

Lab Sample ID: 240-224360-3

Date Collected: 05/12/25 14:27

Matrix: Water

Date Received: 05/14/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.64		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 14:07	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 18:18	1
Arsenic	ND		0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 18:18	1
Barium	0.054		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 18:18	1
Beryllium	ND		0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 18:18	1
Cadmium	ND		0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 18:18	1
Cobalt	0.00013	J	0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 18:18	1
Chromium	ND		0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 18:18	1
Copper	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 18:18	1
Molybdenum	0.0020	J	0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 18:18	1
Nickel	ND		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 18:18	1
Lead	ND		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 18:18	1
Antimony	ND		0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 18:18	1
Selenium	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 18:18	1
Thallium	ND		0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 18:18	1
Vanadium	ND		0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 18:18	1
Calcium	67		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 18:18	1
Magnesium	23		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 18:18	1
Lithium	0.026		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 18:18	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.80		0.10	0.013	mg/L		05/16/25 14:59	05/19/25 15:14	1
Zinc	0.0011	J	0.0070	0.00093	mg/L		05/16/25 14:59	05/19/25 15:14	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	260		33	33	mg/L			05/22/25 08:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	320	B	5.0	2.6	mg/L			05/14/25 19:14	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/14/25 19:14	1
Total Dissolved Solids (SM 2540 C-2020)	300		10	7.8	mg/L			05/15/25 09:45	1
Total Suspended Solids (SM 2540D-2020)	8.2		4.0	0.40	mg/L			05/15/25 11:43	1
Chloride (EPA 300.0-1993 R2.1)	2.0		1.0	0.13	mg/L			05/18/25 02:16	1
Fluoride (EPA 300.0-1993 R2.1)	0.35		0.050	0.024	mg/L			05/18/25 02:16	1
Sulfate (EPA 300.0-1993 R2.1)	15		1.0	0.35	mg/L			05/18/25 02:16	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-04 MW-19D

Lab Sample ID: 240-224360-4

Date Collected: 05/12/25 13:20

Matrix: Water

Date Received: 05/14/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.2		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 14:20	1

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	3.1		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 14:24	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 18:25	1
Arsenic	0.0021	J	0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 18:25	1
Barium	0.034		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 18:25	1
Beryllium	0.00073	J	0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 18:25	1
Cadmium	ND		0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 18:25	1
Cobalt	0.0019		0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 18:25	1
Chromium	0.0049	J	0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 18:25	1
Copper	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 18:25	1
Molybdenum	0.0015	J	0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 18:25	1
Nickel	0.0047		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 18:25	1
Lead	0.0043		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 18:25	1
Antimony	ND		0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 18:25	1
Selenium	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 18:25	1
Thallium	ND		0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 18:25	1
Vanadium	0.0053		0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 18:25	1
Calcium	6.4		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 18:25	1
Magnesium	3.1		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 18:25	1
Lithium	0.025		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 18:25	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver, Dissolved	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 18:28	1
Arsenic, Dissolved	0.0017	J	0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 18:28	1
Barium, Dissolved	0.010		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 18:28	1
Beryllium, Dissolved	ND		0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 18:28	1
Cadmium, Dissolved	ND		0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 18:28	1
Cobalt, Dissolved	0.00034	J	0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 18:28	1
Chromium, Dissolved	ND		0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 18:28	1
Copper, Dissolved	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 18:28	1
Molybdenum, Dissolved	0.0016	J	0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 18:28	1
Nickel, Dissolved	ND		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 18:28	1
Lead, Dissolved	ND		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 18:28	1
Antimony, Dissolved	0.00063	J	0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 18:28	1
Selenium, Dissolved	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 18:28	1
Thallium, Dissolved	ND		0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 18:28	1
Vanadium, Dissolved	0.0011	J	0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 18:28	1
Calcium, Dissolved	3.8		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 18:28	1
Magnesium, Dissolved	1.2		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 18:28	1
Lithium, Dissolved	0.019		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 18:28	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-04 MW-19D

Lab Sample ID: 240-224360-4

Date Collected: 05/12/25 13:20

Matrix: Water

Date Received: 05/14/25 08:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.7		0.10	0.013	mg/L		05/16/25 14:59	05/19/25 15:19	1
Zinc	0.0099		0.0070	0.00093	mg/L		05/16/25 14:59	05/19/25 15:19	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	0.32		0.10	0.013	mg/L		05/16/25 14:59	05/19/25 15:17	1
Zinc, Dissolved	0.0031	J	0.0070	0.00093	mg/L		05/16/25 14:59	05/19/25 15:17	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			05/22/25 08:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:22	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	330	B	5.0	2.6	mg/L			05/14/25 19:22	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	52		5.0	2.6	mg/L			05/14/25 19:22	1
Total Dissolved Solids (SM 2540 C-2020)	510		10	7.8	mg/L			05/15/25 09:45	1
Total Suspended Solids (SM 2540D-2020)	36		6.2	0.62	mg/L			05/15/25 11:43	1
Chloride (EPA 300.0-1993 R2.1)	7.7		1.0	0.13	mg/L			05/18/25 03:20	1
Fluoride (EPA 300.0-1993 R2.1)	1.5		0.050	0.024	mg/L			05/18/25 03:20	1
Sulfate (EPA 300.0-1993 R2.1)	3.1		1.0	0.35	mg/L			05/18/25 03:20	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-05 MWT-19A

Lab Sample ID: 240-224360-5

Date Collected: 05/12/25 11:02

Matrix: Water

Date Received: 05/14/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.24		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 14:29	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 18:30	1
Arsenic	0.0026	J	0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 18:30	1
Barium	0.11		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 18:30	1
Beryllium	ND		0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 18:30	1
Cadmium	ND		0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 18:30	1
Cobalt	0.00049	J	0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 18:30	1
Chromium	ND		0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 18:30	1
Copper	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 18:30	1
Molybdenum	0.0025	J	0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 18:30	1
Nickel	0.010		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 18:30	1
Lead	ND		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 18:30	1
Antimony	ND		0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 18:30	1
Selenium	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 18:30	1
Thallium	ND		0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 18:30	1
Vanadium	ND		0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 18:30	1
Calcium	190		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 18:30	1
Magnesium	61		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 18:30	1
Lithium	0.013		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 18:30	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.5		0.10	0.013	mg/L		05/16/25 14:59	05/19/25 15:27	1
Zinc	0.0018	J	0.0070	0.00093	mg/L		05/16/25 14:59	05/19/25 15:27	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	730		33	33	mg/L			05/22/25 08:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	390	B	5.0	2.6	mg/L			05/14/25 19:28	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/14/25 19:28	1
Total Dissolved Solids (SM 2540 C-2020)	970		10	7.8	mg/L			05/15/25 09:45	1
Total Suspended Solids (SM 2540D-2020)	8.8		4.0	0.40	mg/L			05/15/25 11:43	1
Chloride (EPA 300.0-1993 R2.1)	120		1.0	0.13	mg/L			05/18/25 03:41	1
Fluoride (EPA 300.0-1993 R2.1)	0.12		0.050	0.024	mg/L			05/18/25 03:41	1
Sulfate (EPA 300.0-1993 R2.1)	280		5.0	1.7	mg/L			05/18/25 04:02	5

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 240-224360-6

Date Collected: 05/12/25 09:25

Matrix: Water

Date Received: 05/14/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 14:33	1

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 14:38	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 18:33	1
Arsenic	ND		0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 18:33	1
Barium	ND		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 18:33	1
Beryllium	ND		0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 18:33	1
Cadmium	ND		0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 18:33	1
Cobalt	ND		0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 18:33	1
Chromium	ND		0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 18:33	1
Copper	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 18:33	1
Molybdenum	ND		0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 18:33	1
Nickel	ND		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 18:33	1
Lead	ND		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 18:33	1
Antimony	ND		0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 18:33	1
Selenium	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 18:33	1
Thallium	ND		0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 18:33	1
Vanadium	ND		0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 18:33	1
Calcium	ND		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 18:33	1
Magnesium	ND		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 18:33	1
Lithium	ND		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 18:33	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver, Dissolved	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 18:36	1
Arsenic, Dissolved	ND		0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 18:36	1
Barium, Dissolved	ND		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 18:36	1
Beryllium, Dissolved	ND		0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 18:36	1
Cadmium, Dissolved	ND		0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 18:36	1
Cobalt, Dissolved	ND		0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 18:36	1
Chromium, Dissolved	ND		0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 18:36	1
Copper, Dissolved	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 18:36	1
Molybdenum, Dissolved	ND		0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 18:36	1
Nickel, Dissolved	ND		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 18:36	1
Lead, Dissolved	ND		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 18:36	1
Antimony, Dissolved	ND		0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 18:36	1
Selenium, Dissolved	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 18:36	1
Thallium, Dissolved	ND		0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 18:36	1
Vanadium, Dissolved	ND		0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 18:36	1
Calcium, Dissolved	ND		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 18:36	1
Magnesium, Dissolved	ND		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 18:36	1
Lithium, Dissolved	ND		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 18:36	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 240-224360-6

Date Collected: 05/12/25 09:25

Matrix: Water

Date Received: 05/14/25 08:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		05/16/25 14:59	05/19/25 15:30	1
Zinc	0.00097	J	0.0070	0.00093	mg/L		05/16/25 14:59	05/19/25 15:30	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	ND		0.10	0.013	mg/L		05/16/25 15:07	05/19/25 16:38	1
Zinc, Dissolved	ND		0.0070	0.00093	mg/L		05/16/25 15:07	05/19/25 16:38	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			05/22/25 08:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:31	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	7.1	B	5.0	2.6	mg/L			05/14/25 19:34	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/14/25 19:34	1
Total Dissolved Solids (SM 2540 C-2020)	ND		10	7.8	mg/L			05/15/25 09:45	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			05/15/25 11:43	1
Chloride (EPA 300.0-1993 R2.1)	ND		1.0	0.13	mg/L			05/18/25 04:23	1
Fluoride (EPA 300.0-1993 R2.1)	ND		0.050	0.024	mg/L			05/18/25 04:23	1
Sulfate (EPA 300.0-1993 R2.1)	ND		1.0	0.35	mg/L			05/18/25 04:23	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 240-224360-7

Date Collected: 05/12/25 09:10

Matrix: Water

Date Received: 05/14/25 08:00

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 14:42	1

Method: EPA 200.7 R4.4-1994 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 14:47	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 18:38	1
Arsenic	ND		0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 18:38	1
Barium	ND		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 18:38	1
Beryllium	ND		0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 18:38	1
Cadmium	ND		0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 18:38	1
Cobalt	ND		0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 18:38	1
Chromium	ND		0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 18:38	1
Copper	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 18:38	1
Molybdenum	ND		0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 18:38	1
Nickel	ND		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 18:38	1
Lead	ND		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 18:38	1
Antimony	ND		0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 18:38	1
Selenium	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 18:38	1
Thallium	ND		0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 18:38	1
Vanadium	ND		0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 18:38	1
Calcium	ND		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 18:38	1
Magnesium	ND		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 18:38	1
Lithium	ND		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 18:38	1

Method: EPA 200.8-1994 R5.4 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver, Dissolved	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 18:41	1
Arsenic, Dissolved	ND		0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 18:41	1
Barium, Dissolved	ND		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 18:41	1
Beryllium, Dissolved	ND		0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 18:41	1
Cadmium, Dissolved	ND		0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 18:41	1
Cobalt, Dissolved	ND		0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 18:41	1
Chromium, Dissolved	ND		0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 18:41	1
Copper, Dissolved	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 18:41	1
Molybdenum, Dissolved	ND		0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 18:41	1
Nickel, Dissolved	ND		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 18:41	1
Lead, Dissolved	ND		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 18:41	1
Antimony, Dissolved	ND		0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 18:41	1
Selenium, Dissolved	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 18:41	1
Thallium, Dissolved	ND		0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 18:41	1
Vanadium, Dissolved	ND		0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 18:41	1
Calcium, Dissolved	ND		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 18:41	1
Magnesium, Dissolved	ND		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 18:41	1
Lithium, Dissolved	ND		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 18:41	1

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Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 240-224360-7

Date Collected: 05/12/25 09:10

Matrix: Water

Date Received: 05/14/25 08:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		05/16/25 14:59	05/19/25 15:32	1
Zinc	ND		0.0070	0.00093	mg/L		05/16/25 14:59	05/19/25 15:32	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	ND		0.10	0.013	mg/L		05/16/25 15:07	05/19/25 16:41	1
Zinc, Dissolved	ND		0.0070	0.00093	mg/L		05/16/25 15:07	05/19/25 16:41	1

Method: SM 2340 B-2021 - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		33	33	mg/L			05/22/25 08:14	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:34	1

Method: EPA 245.1-1994 R3.0 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/14/25 19:37	1
Carbonate Alkalinity as CaCO3 (SM 2320 B-2021)	ND		5.0	2.6	mg/L			05/14/25 19:37	1
Total Dissolved Solids (SM 2540 C-2020)	ND		10	7.8	mg/L			05/15/25 09:45	1
Total Suspended Solids (SM 2540D-2020)	ND		4.0	0.40	mg/L			05/15/25 11:43	1
Chloride (EPA 300.0-1993 R2.1)	ND		1.0	0.13	mg/L			05/18/25 04:44	1
Fluoride (EPA 300.0-1993 R2.1)	ND		0.050	0.024	mg/L			05/18/25 04:44	1
Sulfate (EPA 300.0-1993 R2.1)	ND		1.0	0.35	mg/L			05/18/25 04:44	1

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Method: 200.7 R4.4-1994 - Metals (ICP)

Lab Sample ID: MB 240-656178/1-A

Matrix: Water

Analysis Batch: 656663

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 656178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 13:12	1
Boron, Dissolved	ND		0.10	0.057	mg/L		05/15/25 14:00	05/19/25 13:12	1

Lab Sample ID: LCS 240-656178/2-A

Matrix: Water

Analysis Batch: 656663

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 656178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.01		mg/L		101	85 - 115
Boron, Dissolved	1.00	1.01		mg/L		101	85 - 115

Lab Sample ID: 240-224360-1 MS

Matrix: Water

Analysis Batch: 656663

Client Sample ID: L505202-01 MW-19A

Prep Type: Total Recoverable

Prep Batch: 656178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.23		1.00	1.29		mg/L		106	70 - 130
Boron, Dissolved	0.23		1.00	1.29		mg/L		106	70 - 130

Lab Sample ID: 240-224360-1 MSD

Matrix: Water

Analysis Batch: 656663

Client Sample ID: L505202-01 MW-19A

Prep Type: Total Recoverable

Prep Batch: 656178

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.23		1.00	1.30		mg/L		106	70 - 130	1	20
Boron, Dissolved	0.23		1.00	1.30		mg/L		106	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 350-6851/25-A

Matrix: Water

Analysis Batch: 6904

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.013	mg/L		05/16/25 14:59	05/19/25 14:21	1
Iron, Dissolved	ND		0.10	0.013	mg/L		05/16/25 14:59	05/19/25 14:21	1
Zinc	ND		0.0070	0.00093	mg/L		05/16/25 14:59	05/19/25 14:21	1
Zinc, Dissolved	ND		0.0070	0.00093	mg/L		05/16/25 14:59	05/19/25 14:21	1

Lab Sample ID: LCS 350-6851/26-A

Matrix: Water

Analysis Batch: 6904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	20.0	21.2		mg/L		106	85 - 115
Iron, Dissolved	20.0	21.2		mg/L		106	85 - 115
Zinc	1.00	1.08		mg/L		108	85 - 115
Zinc, Dissolved	1.00	1.08		mg/L		108	85 - 115

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-224360-1 MS

Matrix: Water

Analysis Batch: 6904

Client Sample ID: L505202-01 MW-19A

Prep Type: Total/NA

Prep Batch: 6851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	4.5		20.0	25.5		mg/L		105	70 - 130
Zinc	0.0025	J	1.00	1.08		mg/L		108	70 - 130

Lab Sample ID: 240-224360-1 MSD

Matrix: Water

Analysis Batch: 6904

Client Sample ID: L505202-01 MW-19A

Prep Type: Total/NA

Prep Batch: 6851

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	4.5		20.0	24.7		mg/L		101	70 - 130	3	20
Zinc	0.0025	J	1.00	1.06		mg/L		106	70 - 130	1	20

Lab Sample ID: 240-224360-2 MS

Matrix: Water

Analysis Batch: 6904

Client Sample ID: L505202-02 MW-19B

Prep Type: Total/NA

Prep Batch: 6851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	2.1		20.0	23.2		mg/L		106	70 - 130
Iron, Dissolved	2.1		20.0	23.2		mg/L		106	70 - 130
Zinc	ND		1.00	1.07		mg/L		107	70 - 130
Zinc, Dissolved	ND		1.00	1.07		mg/L		107	70 - 130

Lab Sample ID: 240-224360-2 MSD

Matrix: Water

Analysis Batch: 6904

Client Sample ID: L505202-02 MW-19B

Prep Type: Total/NA

Prep Batch: 6851

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	2.1		20.0	23.5		mg/L		107	70 - 130	1	20
Iron, Dissolved	2.1		20.0	23.5		mg/L		107	70 - 130	1	20
Zinc	ND		1.00	1.08		mg/L		108	70 - 130	2	20
Zinc, Dissolved	ND		1.00	1.08		mg/L		108	70 - 130	2	20

Lab Sample ID: MB 350-6853/25-A

Matrix: Water

Analysis Batch: 6904

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	ND		0.10	0.013	mg/L		05/16/25 15:07	05/19/25 15:52	1
Zinc, Dissolved	ND		0.0070	0.00093	mg/L		05/16/25 15:07	05/19/25 15:52	1

Lab Sample ID: LCS 350-6853/26-A

Matrix: Water

Analysis Batch: 6904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron, Dissolved	20.0	20.7		mg/L		104	85 - 115
Zinc, Dissolved	1.00	1.06		mg/L		106	85 - 115

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS)

Lab Sample ID: MB 240-656178/1-A

Matrix: Water

Analysis Batch: 656675

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 656178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 17:57	1
Silver, Dissolved	ND		0.0010	0.000053	mg/L		05/15/25 14:00	05/19/25 17:57	1
Arsenic	ND		0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 17:57	1
Arsenic, Dissolved	ND		0.0050	0.00075	mg/L		05/15/25 14:00	05/19/25 17:57	1
Barium	ND		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 17:57	1
Barium, Dissolved	ND		0.0050	0.00077	mg/L		05/15/25 14:00	05/19/25 17:57	1
Beryllium	ND		0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 17:57	1
Beryllium, Dissolved	ND		0.0010	0.00027	mg/L		05/15/25 14:00	05/19/25 17:57	1
Cadmium	ND		0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 17:57	1
Cadmium, Dissolved	ND		0.0010	0.000077	mg/L		05/15/25 14:00	05/19/25 17:57	1
Cobalt	ND		0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 17:57	1
Cobalt, Dissolved	ND		0.0010	0.000086	mg/L		05/15/25 14:00	05/19/25 17:57	1
Chromium	ND		0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 17:57	1
Chromium, Dissolved	ND		0.0050	0.0012	mg/L		05/15/25 14:00	05/19/25 17:57	1
Copper	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 17:57	1
Copper, Dissolved	ND		0.0020	0.0017	mg/L		05/15/25 14:00	05/19/25 17:57	1
Molybdenum	ND		0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 17:57	1
Molybdenum, Dissolved	ND		0.0050	0.0011	mg/L		05/15/25 14:00	05/19/25 17:57	1
Nickel	ND		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 17:57	1
Nickel, Dissolved	ND		0.0020	0.0015	mg/L		05/15/25 14:00	05/19/25 17:57	1
Lead	ND		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 17:57	1
Lead, Dissolved	ND		0.0010	0.00045	mg/L		05/15/25 14:00	05/19/25 17:57	1
Antimony	ND		0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 17:57	1
Antimony, Dissolved	ND		0.0020	0.00057	mg/L		05/15/25 14:00	05/19/25 17:57	1
Selenium	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 17:57	1
Selenium, Dissolved	ND		0.0050	0.00089	mg/L		05/15/25 14:00	05/19/25 17:57	1
Thallium	ND		0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 17:57	1
Thallium, Dissolved	ND		0.0010	0.00051	mg/L		05/15/25 14:00	05/19/25 17:57	1
Vanadium	ND		0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 17:57	1
Vanadium, Dissolved	ND		0.0050	0.00082	mg/L		05/15/25 14:00	05/19/25 17:57	1
Calcium	ND		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 17:57	1
Calcium, Dissolved	ND		1.0	0.25	mg/L		05/15/25 14:00	05/19/25 17:57	1
Magnesium	ND		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 17:57	1
Magnesium, Dissolved	ND		1.0	0.061	mg/L		05/15/25 14:00	05/19/25 17:57	1
Lithium	ND		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 17:57	1
Lithium, Dissolved	ND		0.0080	0.0034	mg/L		05/15/25 14:00	05/19/25 17:57	1

Lab Sample ID: LCS 240-656178/3-A

Matrix: Water

Analysis Batch: 656675

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 656178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.100	0.103		mg/L		103	85 - 115
Silver, Dissolved	0.100	0.103		mg/L		103	85 - 115
Arsenic	1.00	1.01		mg/L		101	85 - 115
Arsenic, Dissolved	1.00	1.01		mg/L		101	85 - 115
Barium	1.00	0.988		mg/L		99	85 - 115
Barium, Dissolved	1.00	0.988		mg/L		99	85 - 115
Beryllium	0.500	0.487		mg/L		97	85 - 115

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-656178/3-A

Matrix: Water

Analysis Batch: 656675

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 656178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium, Dissolved	0.500	0.487		mg/L		97	85 - 115
Cadmium	0.500	0.485		mg/L		97	85 - 115
Cadmium, Dissolved	0.500	0.485		mg/L		97	85 - 115
Cobalt	0.500	0.509		mg/L		102	85 - 115
Cobalt, Dissolved	0.500	0.509		mg/L		102	85 - 115
Chromium	0.500	0.499		mg/L		100	85 - 115
Chromium, Dissolved	0.500	0.499		mg/L		100	85 - 115
Copper	0.500	0.501		mg/L		100	85 - 115
Copper, Dissolved	0.500	0.501		mg/L		100	85 - 115
Molybdenum	0.500	0.501		mg/L		100	85 - 115
Molybdenum, Dissolved	0.500	0.501		mg/L		100	85 - 115
Nickel	0.500	0.495		mg/L		99	85 - 115
Nickel, Dissolved	0.500	0.495		mg/L		99	85 - 115
Lead	0.500	0.535		mg/L		107	85 - 115
Lead, Dissolved	0.500	0.535		mg/L		107	85 - 115
Antimony	0.100	0.0997		mg/L		100	85 - 115
Antimony, Dissolved	0.100	0.0997		mg/L		100	85 - 115
Selenium	1.00	0.978		mg/L		98	85 - 115
Selenium, Dissolved	1.00	0.978		mg/L		98	85 - 115
Thallium	1.00	1.13		mg/L		113	85 - 115
Thallium, Dissolved	1.00	1.13		mg/L		113	85 - 115
Vanadium	0.500	0.492		mg/L		98	85 - 115
Vanadium, Dissolved	0.500	0.492		mg/L		98	85 - 115
Calcium	25.0	25.3		mg/L		101	85 - 115
Calcium, Dissolved	25.0	25.3		mg/L		101	85 - 115
Magnesium	25.0	25.7		mg/L		103	85 - 115
Magnesium, Dissolved	25.0	25.7		mg/L		103	85 - 115
Lithium	0.500	0.523		mg/L		105	85 - 115
Lithium, Dissolved	0.500	0.523		mg/L		105	85 - 115

Lab Sample ID: 240-224360-1 MS

Matrix: Water

Analysis Batch: 656675

Client Sample ID: L505202-01 MW-19A

Prep Type: Total Recoverable

Prep Batch: 656178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.100	0.103		mg/L		103	70 - 130
Silver, Dissolved	ND		0.100	0.103		mg/L		103	70 - 130
Arsenic	0.0027	J	1.00	1.02		mg/L		102	70 - 130
Arsenic, Dissolved	0.0027	J	1.00	1.02		mg/L		102	70 - 130
Barium	0.11		1.00	1.10		mg/L		99	70 - 130
Barium, Dissolved	0.11		1.00	1.10		mg/L		99	70 - 130
Beryllium	ND		0.500	0.486		mg/L		97	70 - 130
Beryllium, Dissolved	ND		0.500	0.486		mg/L		97	70 - 130
Cadmium	0.000081	J	0.500	0.481		mg/L		96	70 - 130
Cadmium, Dissolved	0.000081	J	0.500	0.481		mg/L		96	70 - 130
Cobalt	0.00054	J	0.500	0.514		mg/L		103	70 - 130
Cobalt, Dissolved	0.00054	J	0.500	0.514		mg/L		103	70 - 130
Chromium	ND		0.500	0.500		mg/L		100	70 - 130
Chromium, Dissolved	ND		0.500	0.500		mg/L		100	70 - 130

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-224360-1 MS

Matrix: Water

Analysis Batch: 656675

Client Sample ID: L505202-01 MW-19A

Prep Type: Total Recoverable

Prep Batch: 656178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	ND		0.500	0.499		mg/L		100	70 - 130
Copper, Dissolved	ND		0.500	0.499		mg/L		100	70 - 130
Molybdenum	0.0030	J	0.500	0.516		mg/L		103	70 - 130
Molybdenum, Dissolved	0.0030	J	0.500	0.516		mg/L		103	70 - 130
Nickel	0.011		0.500	0.503		mg/L		99	70 - 130
Nickel, Dissolved	0.011		0.500	0.503		mg/L		99	70 - 130
Lead	ND		0.500	0.530		mg/L		106	70 - 130
Lead, Dissolved	ND		0.500	0.530		mg/L		106	70 - 130
Antimony	ND		0.100	0.101		mg/L		101	70 - 130
Antimony, Dissolved	ND		0.100	0.101		mg/L		101	70 - 130
Selenium	ND		1.00	0.972		mg/L		97	70 - 130
Selenium, Dissolved	ND		1.00	0.972		mg/L		97	70 - 130
Thallium	ND		1.00	1.13		mg/L		113	70 - 130
Thallium, Dissolved	ND		1.00	1.13		mg/L		113	70 - 130
Vanadium	ND		0.500	0.496		mg/L		99	70 - 130
Vanadium, Dissolved	ND		0.500	0.496		mg/L		99	70 - 130
Calcium	200		25.0	216	4	mg/L		72	70 - 130
Calcium, Dissolved	200		25.0	216	4	mg/L		72	70 - 130
Magnesium	63		25.0	84.6		mg/L		87	70 - 130
Magnesium, Dissolved	63		25.0	84.6		mg/L		87	70 - 130
Lithium	0.013		0.500	0.531		mg/L		104	70 - 130
Lithium, Dissolved	0.013		0.500	0.531		mg/L		104	70 - 130

Lab Sample ID: 240-224360-1 MSD

Matrix: Water

Analysis Batch: 656675

Client Sample ID: L505202-01 MW-19A

Prep Type: Total Recoverable

Prep Batch: 656178

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Silver	ND		0.100	0.103		mg/L		103	70 - 130	1	20
Silver, Dissolved	ND		0.100	0.103		mg/L		103	70 - 130	1	20
Arsenic	0.0027	J	1.00	1.02		mg/L		102	70 - 130	0	20
Arsenic, Dissolved	0.0027	J	1.00	1.02		mg/L		102	70 - 130	0	20
Barium	0.11		1.00	1.09		mg/L		98	70 - 130	1	20
Barium, Dissolved	0.11		1.00	1.09		mg/L		98	70 - 130	1	20
Beryllium	ND		0.500	0.485		mg/L		97	70 - 130	0	20
Beryllium, Dissolved	ND		0.500	0.485		mg/L		97	70 - 130	0	20
Cadmium	0.000081	J	0.500	0.476		mg/L		95	70 - 130	1	20
Cadmium, Dissolved	0.000081	J	0.500	0.476		mg/L		95	70 - 130	1	20
Cobalt	0.00054	J	0.500	0.516		mg/L		103	70 - 130	0	20
Cobalt, Dissolved	0.00054	J	0.500	0.516		mg/L		103	70 - 130	0	20
Chromium	ND		0.500	0.500		mg/L		100	70 - 130	0	20
Chromium, Dissolved	ND		0.500	0.500		mg/L		100	70 - 130	0	20
Copper	ND		0.500	0.498		mg/L		100	70 - 130	0	20
Copper, Dissolved	ND		0.500	0.498		mg/L		100	70 - 130	0	20
Molybdenum	0.0030	J	0.500	0.512		mg/L		102	70 - 130	1	20
Molybdenum, Dissolved	0.0030	J	0.500	0.512		mg/L		102	70 - 130	1	20
Nickel	0.011		0.500	0.501		mg/L		98	70 - 130	0	20
Nickel, Dissolved	0.011		0.500	0.501		mg/L		98	70 - 130	0	20
Lead	ND		0.500	0.533		mg/L		107	70 - 130	1	20

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Method: 200.8-1994 R5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-224360-1 MSD

Matrix: Water

Analysis Batch: 656675

Client Sample ID: L505202-01 MW-19A

Prep Type: Total Recoverable

Prep Batch: 656178

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead, Dissolved	ND		0.500	0.533		mg/L		107	70 - 130	1	20
Antimony	ND		0.100	0.100		mg/L		100	70 - 130	1	20
Antimony, Dissolved	ND		0.100	0.100		mg/L		100	70 - 130	1	20
Selenium	ND		1.00	0.981		mg/L		98	70 - 130	1	20
Selenium, Dissolved	ND		1.00	0.981		mg/L		98	70 - 130	1	20
Thallium	ND		1.00	1.13		mg/L		113	70 - 130	0	20
Thallium, Dissolved	ND		1.00	1.13		mg/L		113	70 - 130	0	20
Vanadium	ND		0.500	0.497		mg/L		99	70 - 130	0	20
Vanadium, Dissolved	ND		0.500	0.497		mg/L		99	70 - 130	0	20
Calcium	200		25.0	221	4	mg/L		91	70 - 130	2	20
Calcium, Dissolved	200		25.0	221	4	mg/L		91	70 - 130	2	20
Magnesium	63		25.0	86.1		mg/L		93	70 - 130	2	20
Magnesium, Dissolved	63		25.0	86.1		mg/L		93	70 - 130	2	20
Lithium	0.013		0.500	0.537		mg/L		105	70 - 130	1	20
Lithium, Dissolved	0.013		0.500	0.537		mg/L		105	70 - 130	1	20

Method: 245.1-1994 R3.0 - Mercury (CVAA)

Lab Sample ID: MB 240-656179/1-A

Matrix: Water

Analysis Batch: 656390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 656179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:10	1
Mercury, Dissolved	ND		0.00020	0.00013	mg/L		05/15/25 14:00	05/16/25 14:10	1

Lab Sample ID: LCS 240-656179/2-A

Matrix: Water

Analysis Batch: 656390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 656179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.00502		mg/L		100	85 - 115
Mercury, Dissolved	0.00500	0.00502		mg/L		100	85 - 115

Lab Sample ID: 240-224360-1 MS

Matrix: Water

Analysis Batch: 656390

Client Sample ID: L505202-01 MW-19A

Prep Type: Total/NA

Prep Batch: 656179

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.00100		mg/L		100	70 - 130
Mercury, Dissolved	ND		0.00100	0.00100		mg/L		100	70 - 130

Lab Sample ID: 240-224360-1 MSD

Matrix: Water

Analysis Batch: 656390

Client Sample ID: L505202-01 MW-19A

Prep Type: Total/NA

Prep Batch: 656179

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00102		mg/L		102	70 - 130	2	20
Mercury, Dissolved	ND		0.00100	0.00102		mg/L		102	70 - 130	2	20

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Method: 2320 B-2021 - Alkalinity

Lab Sample ID: MB 240-656143/30

Matrix: Water

Analysis Batch: 656143

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			05/14/25 15:33	1
Carbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			05/14/25 15:33	1

Lab Sample ID: MB 240-656143/57

Matrix: Water

Analysis Batch: 656143

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	4.48	J	5.0	2.6	mg/L			05/14/25 17:46	1
Carbonate Alkalinity as CaCO ₃	ND		5.0	2.6	mg/L			05/14/25 17:46	1

Method: 2540 C-2020 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-656139/1

Matrix: Water

Analysis Batch: 656139

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	7.8	mg/L			05/15/25 09:45	1

Lab Sample ID: LCS 240-656139/2

Matrix: Water

Analysis Batch: 656139

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	240	205		mg/L		85	80 - 120

Lab Sample ID: 240-224360-1 DU

Matrix: Water

Analysis Batch: 656139

Client Sample ID: L505202-01 MW-19A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	930		914		mg/L		2	20

Method: 2540D-2020 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-656189/1

Matrix: Water

Analysis Batch: 656189

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	0.40	mg/L			05/15/25 11:43	1

Lab Sample ID: LCS 240-656189/2

Matrix: Water

Analysis Batch: 656189

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	30.0	24.0		mg/L		80	64 - 120

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QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 240-656398/3

Matrix: Water

Analysis Batch: 656398

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.13	mg/L			05/17/25 07:54	1
Fluoride	ND		0.050	0.024	mg/L			05/17/25 07:54	1
Sulfate	ND		1.0	0.35	mg/L			05/17/25 07:54	1

Lab Sample ID: LCS 240-656398/4

Matrix: Water

Analysis Batch: 656398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	50.3		mg/L		101	90 - 110
Fluoride	2.50	2.46		mg/L		99	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

Lab Sample ID: MB 240-656402/4

Matrix: Water

Analysis Batch: 656402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.13	mg/L			05/18/25 01:34	1
Fluoride	ND		0.050	0.024	mg/L			05/18/25 01:34	1
Sulfate	ND		1.0	0.35	mg/L			05/18/25 01:34	1

Lab Sample ID: LCS 240-656402/5

Matrix: Water

Analysis Batch: 656402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	50.3		mg/L		101	90 - 110
Fluoride	2.50	2.46		mg/L		99	90 - 110
Sulfate	50.0	51.1		mg/L		102	90 - 110

Lab Sample ID: 240-224360-3 MS

Matrix: Water

Analysis Batch: 656402

Client Sample ID: L505202-03 MW-19C

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.0		50.0	54.3		mg/L		105	80 - 120
Fluoride	0.35		2.50	2.86		mg/L		101	80 - 120
Sulfate	15		50.0	67.4		mg/L		106	80 - 120

Lab Sample ID: 240-224360-3 MSD

Matrix: Water

Analysis Batch: 656402

Client Sample ID: L505202-03 MW-19C

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2.0		50.0	52.6		mg/L		101	80 - 120	3	15
Fluoride	0.35		2.50	2.78		mg/L		97	80 - 120	3	15
Sulfate	15		50.0	65.6		mg/L		102	80 - 120	3	15

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Metals

Prep Batch: 6851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total/NA	Water	200.8	
240-224360-2	L505202-02 MW-19B	Total/NA	Water	200.8	
240-224360-3	L505202-03 MW-19C	Total/NA	Water	200.8	
240-224360-4	L505202-04 MW-19D	Dissolved	Water	200.8	
240-224360-4	L505202-04 MW-19D	Total/NA	Water	200.8	
240-224360-5	L505202-05 MWT-19A	Total/NA	Water	200.8	
240-224360-6	FIELD BLANK	Total/NA	Water	200.8	
240-224360-7	EQUIPMENT BLANK	Total/NA	Water	200.8	
MB 350-6851/25-A	Method Blank	Total/NA	Water	200.8	
LCS 350-6851/26-A	Lab Control Sample	Total/NA	Water	200.8	
240-224360-1 MS	L505202-01 MW-19A	Total/NA	Water	200.8	
240-224360-1 MSD	L505202-01 MW-19A	Total/NA	Water	200.8	
240-224360-2 MS	L505202-02 MW-19B	Total/NA	Water	200.8	
240-224360-2 MSD	L505202-02 MW-19B	Total/NA	Water	200.8	

Prep Batch: 6853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-6	FIELD BLANK	Dissolved	Water	200.8	
240-224360-7	EQUIPMENT BLANK	Dissolved	Water	200.8	
MB 350-6853/25-A	Method Blank	Total/NA	Water	200.8	
LCS 350-6853/26-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 6904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total/NA	Water	200.8	6851
240-224360-2	L505202-02 MW-19B	Total/NA	Water	200.8	6851
240-224360-3	L505202-03 MW-19C	Total/NA	Water	200.8	6851
240-224360-4	L505202-04 MW-19D	Dissolved	Water	200.8	6851
240-224360-4	L505202-04 MW-19D	Total/NA	Water	200.8	6851
240-224360-5	L505202-05 MWT-19A	Total/NA	Water	200.8	6851
240-224360-6	FIELD BLANK	Dissolved	Water	200.8	6853
240-224360-6	FIELD BLANK	Total/NA	Water	200.8	6851
240-224360-7	EQUIPMENT BLANK	Dissolved	Water	200.8	6853
240-224360-7	EQUIPMENT BLANK	Total/NA	Water	200.8	6851
MB 350-6851/25-A	Method Blank	Total/NA	Water	200.8	6851
MB 350-6853/25-A	Method Blank	Total/NA	Water	200.8	6853
LCS 350-6851/26-A	Lab Control Sample	Total/NA	Water	200.8	6851
LCS 350-6853/26-A	Lab Control Sample	Total/NA	Water	200.8	6853
240-224360-1 MS	L505202-01 MW-19A	Total/NA	Water	200.8	6851
240-224360-1 MSD	L505202-01 MW-19A	Total/NA	Water	200.8	6851
240-224360-2 MS	L505202-02 MW-19B	Total/NA	Water	200.8	6851
240-224360-2 MSD	L505202-02 MW-19B	Total/NA	Water	200.8	6851

Prep Batch: 656178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total Recoverable	Water	200.7	
240-224360-2	L505202-02 MW-19B	Total Recoverable	Water	200.7	
240-224360-3	L505202-03 MW-19C	Total Recoverable	Water	200.7	
240-224360-4	L505202-04 MW-19D	Dissolved	Water	200.8-1994 R5.4	
240-224360-4	L505202-04 MW-19D	Total Recoverable	Water	200.7	
240-224360-5	L505202-05 MWT-19A	Total Recoverable	Water	200.7	

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Metals (Continued)

Prep Batch: 656178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-6	FIELD BLANK	Dissolved	Water	200.8-1994 R5.4	
240-224360-6	FIELD BLANK	Total Recoverable	Water	200.7	
240-224360-7	EQUIPMENT BLANK	Dissolved	Water	200.8-1994 R5.4	
240-224360-7	EQUIPMENT BLANK	Total Recoverable	Water	200.7	
MB 240-656178/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 240-656178/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCS 240-656178/3-A	Lab Control Sample	Total Recoverable	Water	200.7	
240-224360-1 MS	L505202-01 MW-19A	Total Recoverable	Water	200.8-1994 R5.4	
240-224360-1 MS	L505202-01 MW-19A	Total Recoverable	Water	200.7	
240-224360-1 MSD	L505202-01 MW-19A	Total Recoverable	Water	200.8-1994 R5.4	
240-224360-1 MSD	L505202-01 MW-19A	Total Recoverable	Water	200.7	

Prep Batch: 656179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total/NA	Water	245.1-1994 R3.0	
240-224360-2	L505202-02 MW-19B	Total/NA	Water	245.1-1994 R3.0	
240-224360-3	L505202-03 MW-19C	Total/NA	Water	245.1-1994 R3.0	
240-224360-4	L505202-04 MW-19D	Dissolved	Water	245.1-1994 R3.0	
240-224360-4	L505202-04 MW-19D	Total/NA	Water	245.1-1994 R3.0	
240-224360-5	L505202-05 MWT-19A	Total/NA	Water	245.1-1994 R3.0	
240-224360-6	FIELD BLANK	Dissolved	Water	245.1-1994 R3.0	
240-224360-6	FIELD BLANK	Total/NA	Water	245.1-1994 R3.0	
240-224360-7	EQUIPMENT BLANK	Dissolved	Water	245.1-1994 R3.0	
240-224360-7	EQUIPMENT BLANK	Total/NA	Water	245.1-1994 R3.0	
MB 240-656179/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	
LCS 240-656179/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	
240-224360-1 MS	L505202-01 MW-19A	Total/NA	Water	245.1-1994 R3.0	
240-224360-1 MSD	L505202-01 MW-19A	Total/NA	Water	245.1-1994 R3.0	

Analysis Batch: 656390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total/NA	Water	245.1-1994 R3.0	656179
240-224360-2	L505202-02 MW-19B	Total/NA	Water	245.1-1994 R3.0	656179
240-224360-3	L505202-03 MW-19C	Total/NA	Water	245.1-1994 R3.0	656179
240-224360-4	L505202-04 MW-19D	Dissolved	Water	245.1-1994 R3.0	656179
240-224360-4	L505202-04 MW-19D	Total/NA	Water	245.1-1994 R3.0	656179
240-224360-5	L505202-05 MWT-19A	Total/NA	Water	245.1-1994 R3.0	656179
240-224360-6	FIELD BLANK	Dissolved	Water	245.1-1994 R3.0	656179
240-224360-6	FIELD BLANK	Total/NA	Water	245.1-1994 R3.0	656179
240-224360-7	EQUIPMENT BLANK	Dissolved	Water	245.1-1994 R3.0	656179
240-224360-7	EQUIPMENT BLANK	Total/NA	Water	245.1-1994 R3.0	656179
MB 240-656179/1-A	Method Blank	Total/NA	Water	245.1-1994 R3.0	656179
LCS 240-656179/2-A	Lab Control Sample	Total/NA	Water	245.1-1994 R3.0	656179
240-224360-1 MS	L505202-01 MW-19A	Total/NA	Water	245.1-1994 R3.0	656179
240-224360-1 MSD	L505202-01 MW-19A	Total/NA	Water	245.1-1994 R3.0	656179

Analysis Batch: 656663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total Recoverable	Water	200.7 R4.4-1994	656178
240-224360-2	L505202-02 MW-19B	Total Recoverable	Water	200.7 R4.4-1994	656178
240-224360-3	L505202-03 MW-19C	Total Recoverable	Water	200.7 R4.4-1994	656178

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Metals (Continued)

Analysis Batch: 656663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-4	L505202-04 MW-19D	Dissolved	Water	200.7 R4.4-1994	656178
240-224360-4	L505202-04 MW-19D	Total Recoverable	Water	200.7 R4.4-1994	656178
240-224360-5	L505202-05 MWT-19A	Total Recoverable	Water	200.7 R4.4-1994	656178
240-224360-6	FIELD BLANK	Dissolved	Water	200.7 R4.4-1994	656178
240-224360-6	FIELD BLANK	Total Recoverable	Water	200.7 R4.4-1994	656178
240-224360-7	EQUIPMENT BLANK	Dissolved	Water	200.7 R4.4-1994	656178
240-224360-7	EQUIPMENT BLANK	Total Recoverable	Water	200.7 R4.4-1994	656178
MB 240-656178/1-A	Method Blank	Total Recoverable	Water	200.7 R4.4-1994	656178
LCS 240-656178/2-A	Lab Control Sample	Total Recoverable	Water	200.7 R4.4-1994	656178
240-224360-1 MS	L505202-01 MW-19A	Total Recoverable	Water	200.7 R4.4-1994	656178
240-224360-1 MSD	L505202-01 MW-19A	Total Recoverable	Water	200.7 R4.4-1994	656178

Analysis Batch: 656675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total Recoverable	Water	200.8-1994 R5.4	656178
240-224360-2	L505202-02 MW-19B	Total Recoverable	Water	200.8-1994 R5.4	656178
240-224360-3	L505202-03 MW-19C	Total Recoverable	Water	200.8-1994 R5.4	656178
240-224360-4	L505202-04 MW-19D	Dissolved	Water	200.8-1994 R5.4	656178
240-224360-4	L505202-04 MW-19D	Total Recoverable	Water	200.8-1994 R5.4	656178
240-224360-5	L505202-05 MWT-19A	Total Recoverable	Water	200.8-1994 R5.4	656178
240-224360-6	FIELD BLANK	Dissolved	Water	200.8-1994 R5.4	656178
240-224360-6	FIELD BLANK	Total Recoverable	Water	200.8-1994 R5.4	656178
240-224360-7	EQUIPMENT BLANK	Dissolved	Water	200.8-1994 R5.4	656178
240-224360-7	EQUIPMENT BLANK	Total Recoverable	Water	200.8-1994 R5.4	656178
MB 240-656178/1-A	Method Blank	Total Recoverable	Water	200.8-1994 R5.4	656178
LCS 240-656178/3-A	Lab Control Sample	Total Recoverable	Water	200.8-1994 R5.4	656178
240-224360-1 MS	L505202-01 MW-19A	Total Recoverable	Water	200.8-1994 R5.4	656178
240-224360-1 MSD	L505202-01 MW-19A	Total Recoverable	Water	200.8-1994 R5.4	656178

Analysis Batch: 657024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total Recoverable	Water	2340 B-2021	
240-224360-2	L505202-02 MW-19B	Total Recoverable	Water	2340 B-2021	
240-224360-3	L505202-03 MW-19C	Total Recoverable	Water	2340 B-2021	
240-224360-4	L505202-04 MW-19D	Total Recoverable	Water	2340 B-2021	
240-224360-5	L505202-05 MWT-19A	Total Recoverable	Water	2340 B-2021	
240-224360-6	FIELD BLANK	Total Recoverable	Water	2340 B-2021	
240-224360-7	EQUIPMENT BLANK	Total Recoverable	Water	2340 B-2021	

General Chemistry

Analysis Batch: 656139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total/NA	Water	2540 C-2020	
240-224360-2	L505202-02 MW-19B	Total/NA	Water	2540 C-2020	
240-224360-3	L505202-03 MW-19C	Total/NA	Water	2540 C-2020	
240-224360-4	L505202-04 MW-19D	Total/NA	Water	2540 C-2020	
240-224360-5	L505202-05 MWT-19A	Total/NA	Water	2540 C-2020	
240-224360-6	FIELD BLANK	Total/NA	Water	2540 C-2020	
240-224360-7	EQUIPMENT BLANK	Total/NA	Water	2540 C-2020	
MB 240-656139/1	Method Blank	Total/NA	Water	2540 C-2020	

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QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

General Chemistry (Continued)

Analysis Batch: 656139 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-656139/2	Lab Control Sample	Total/NA	Water	2540 C-2020	
240-224360-1 DU	L505202-01 MW-19A	Total/NA	Water	2540 C-2020	

Analysis Batch: 656143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total/NA	Water	2320 B-2021	
240-224360-2	L505202-02 MW-19B	Total/NA	Water	2320 B-2021	
240-224360-3	L505202-03 MW-19C	Total/NA	Water	2320 B-2021	
240-224360-4	L505202-04 MW-19D	Total/NA	Water	2320 B-2021	
240-224360-5	L505202-05 MWT-19A	Total/NA	Water	2320 B-2021	
240-224360-6	FIELD BLANK	Total/NA	Water	2320 B-2021	
240-224360-7	EQUIPMENT BLANK	Total/NA	Water	2320 B-2021	
MB 240-656143/30	Method Blank	Total/NA	Water	2320 B-2021	
MB 240-656143/57	Method Blank	Total/NA	Water	2320 B-2021	

Analysis Batch: 656189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total/NA	Water	2540D-2020	
240-224360-2	L505202-02 MW-19B	Total/NA	Water	2540D-2020	
240-224360-3	L505202-03 MW-19C	Total/NA	Water	2540D-2020	
240-224360-4	L505202-04 MW-19D	Total/NA	Water	2540D-2020	
240-224360-5	L505202-05 MWT-19A	Total/NA	Water	2540D-2020	
240-224360-6	FIELD BLANK	Total/NA	Water	2540D-2020	
240-224360-7	EQUIPMENT BLANK	Total/NA	Water	2540D-2020	
MB 240-656189/1	Method Blank	Total/NA	Water	2540D-2020	
LCS 240-656189/2	Lab Control Sample	Total/NA	Water	2540D-2020	

Analysis Batch: 656398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total/NA	Water	300.0-1993 R2.1	
240-224360-1	L505202-01 MW-19A	Total/NA	Water	300.0-1993 R2.1	
240-224360-2	L505202-02 MW-19B	Total/NA	Water	300.0-1993 R2.1	
240-224360-2	L505202-02 MW-19B	Total/NA	Water	300.0-1993 R2.1	
MB 240-656398/3	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 240-656398/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 656402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-3	L505202-03 MW-19C	Total/NA	Water	300.0-1993 R2.1	
240-224360-4	L505202-04 MW-19D	Total/NA	Water	300.0-1993 R2.1	
240-224360-5	L505202-05 MWT-19A	Total/NA	Water	300.0-1993 R2.1	
240-224360-5	L505202-05 MWT-19A	Total/NA	Water	300.0-1993 R2.1	
240-224360-6	FIELD BLANK	Total/NA	Water	300.0-1993 R2.1	
240-224360-7	EQUIPMENT BLANK	Total/NA	Water	300.0-1993 R2.1	
MB 240-656402/4	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 240-656402/5	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
240-224360-3 MS	L505202-03 MW-19C	Total/NA	Water	300.0-1993 R2.1	
240-224360-3 MSD	L505202-03 MW-19C	Total/NA	Water	300.0-1993 R2.1	

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-01 MW-19A

Lab Sample ID: 240-224360-1

Date Collected: 05/12/25 11:02

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	656663	KLC	EET CLE	05/19/25 13:40
Total/NA	Prep	200.8			6851	RMN	EET SSM	05/16/25 14:59
Total/NA	Analysis	200.8		1	6904	CW	EET SSM	05/19/25 14:27
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	656675	S4FJ	EET CLE	05/19/25 18:02
Total Recoverable	Analysis	2340 B-2021		1	657024	KLC	EET CLE	05/22/25 08:14
Total/NA	Prep	245.1-1994 R3.0			656179	MN7X	EET CLE	05/15/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	656390	S4FJ	EET CLE	05/16/25 14:14
Total/NA	Analysis	2320 B-2021		1	656143	PQD2	EET CLE	05/14/25 19:01
Total/NA	Analysis	2540 C-2020		1	656139	AAP	EET CLE	05/15/25 09:45
Total/NA	Analysis	2540D-2020		1	656189	AAP	EET CLE	05/15/25 11:43
Total/NA	Analysis	300.0-1993 R2.1		1	656398	JMR	EET CLE	05/17/25 22:23
Total/NA	Analysis	300.0-1993 R2.1		5	656398	JMR	EET CLE	05/17/25 22:44

Client Sample ID: L505202-02 MW-19B

Lab Sample ID: 240-224360-2

Date Collected: 05/12/25 12:42

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	656663	KLC	EET CLE	05/19/25 14:02
Total/NA	Prep	200.8			6851	RMN	EET SSM	05/16/25 14:59
Total/NA	Analysis	200.8		1	6904	CW	EET SSM	05/19/25 14:41
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	656675	S4FJ	EET CLE	05/19/25 18:15
Total Recoverable	Analysis	2340 B-2021		1	657024	KLC	EET CLE	05/22/25 08:14
Total/NA	Prep	245.1-1994 R3.0			656179	MN7X	EET CLE	05/15/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	656390	S4FJ	EET CLE	05/16/25 14:19
Total/NA	Analysis	2320 B-2021		1	656143	PQD2	EET CLE	05/14/25 19:07
Total/NA	Analysis	2540 C-2020		1	656139	AAP	EET CLE	05/15/25 09:45
Total/NA	Analysis	2540D-2020		1	656189	AAP	EET CLE	05/15/25 11:43
Total/NA	Analysis	300.0-1993 R2.1		1	656398	JMR	EET CLE	05/17/25 23:05
Total/NA	Analysis	300.0-1993 R2.1		5	656398	JMR	EET CLE	05/17/25 23:26

Client Sample ID: L505202-03 MW-19C

Lab Sample ID: 240-224360-3

Date Collected: 05/12/25 14:27

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	656663	KLC	EET CLE	05/19/25 14:07
Total/NA	Prep	200.8			6851	RMN	EET SSM	05/16/25 14:59
Total/NA	Analysis	200.8		1	6904	CW	EET SSM	05/19/25 15:14

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-03 MW-19C

Lab Sample ID: 240-224360-3

Date Collected: 05/12/25 14:27

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	656675	S4FJ	EET CLE	05/19/25 18:18
Total Recoverable	Analysis	2340 B-2021		1	657024	KLC	EET CLE	05/22/25 08:14
Total/NA	Prep	245.1-1994 R3.0			656179	MN7X	EET CLE	05/15/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	656390	S4FJ	EET CLE	05/16/25 14:20
Total/NA	Analysis	2320 B-2021		1	656143	PQD2	EET CLE	05/14/25 19:14
Total/NA	Analysis	2540 C-2020		1	656139	AAP	EET CLE	05/15/25 09:45
Total/NA	Analysis	2540D-2020		1	656189	AAP	EET CLE	05/15/25 11:43
Total/NA	Analysis	300.0-1993 R2.1		1	656402	JMR	EET CLE	05/18/25 02:16

Client Sample ID: L505202-04 MW-19D

Lab Sample ID: 240-224360-4

Date Collected: 05/12/25 13:20

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	200.8-1994 R5.4			656178	MN7X	EET CLE	05/15/25 14:00
Dissolved	Analysis	200.7 R4.4-1994		1	656663	KLC	EET CLE	05/19/25 14:24
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	656663	KLC	EET CLE	05/19/25 14:20
Dissolved	Prep	200.8			6851	RMN	EET SSM	05/16/25 14:59
Dissolved	Analysis	200.8		1	6904	CW	EET SSM	05/19/25 15:17
Total/NA	Prep	200.8			6851	RMN	EET SSM	05/16/25 14:59
Total/NA	Analysis	200.8		1	6904	CW	EET SSM	05/19/25 15:19
Dissolved	Prep	200.8-1994 R5.4			656178	MN7X	EET CLE	05/15/25 14:00
Dissolved	Analysis	200.8-1994 R5.4		1	656675	S4FJ	EET CLE	05/19/25 18:28
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	656675	S4FJ	EET CLE	05/19/25 18:25
Total Recoverable	Analysis	2340 B-2021		1	657024	KLC	EET CLE	05/22/25 08:14
Dissolved	Prep	245.1-1994 R3.0			656179	MN7X	EET CLE	05/15/25 14:00
Dissolved	Analysis	245.1-1994 R3.0		1	656390	S4FJ	EET CLE	05/16/25 14:24
Total/NA	Prep	245.1-1994 R3.0			656179	MN7X	EET CLE	05/15/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	656390	S4FJ	EET CLE	05/16/25 14:22
Total/NA	Analysis	2320 B-2021		1	656143	PQD2	EET CLE	05/14/25 19:22
Total/NA	Analysis	2540 C-2020		1	656139	AAP	EET CLE	05/15/25 09:45
Total/NA	Analysis	2540D-2020		1	656189	AAP	EET CLE	05/15/25 11:43
Total/NA	Analysis	300.0-1993 R2.1		1	656402	JMR	EET CLE	05/18/25 03:20

Client Sample ID: L505202-05 MWT-19A

Lab Sample ID: 240-224360-5

Date Collected: 05/12/25 11:02

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	656663	KLC	EET CLE	05/19/25 14:29

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: L505202-05 MWT-19A

Lab Sample ID: 240-224360-5

Date Collected: 05/12/25 11:02

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	200.8			6851	RMN	EET SSM	05/16/25 14:59
Total/NA	Analysis	200.8		1	6904	CW	EET SSM	05/19/25 15:27
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	656675	S4FJ	EET CLE	05/19/25 18:30
Total Recoverable	Analysis	2340 B-2021		1	657024	KLC	EET CLE	05/22/25 08:14
Total/NA	Prep	245.1-1994 R3.0			656179	MN7X	EET CLE	05/15/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	656390	S4FJ	EET CLE	05/16/25 14:29
Total/NA	Analysis	2320 B-2021		1	656143	PQD2	EET CLE	05/14/25 19:28
Total/NA	Analysis	2540 C-2020		1	656139	AAP	EET CLE	05/15/25 09:45
Total/NA	Analysis	2540D-2020		1	656189	AAP	EET CLE	05/15/25 11:43
Total/NA	Analysis	300.0-1993 R2.1		1	656402	JMR	EET CLE	05/18/25 03:41
Total/NA	Analysis	300.0-1993 R2.1		5	656402	JMR	EET CLE	05/18/25 04:02

Client Sample ID: FIELD BLANK

Lab Sample ID: 240-224360-6

Date Collected: 05/12/25 09:25

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	200.8-1994 R5.4			656178	MN7X	EET CLE	05/15/25 14:00
Dissolved	Analysis	200.7 R4.4-1994		1	656663	KLC	EET CLE	05/19/25 14:38
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	656663	KLC	EET CLE	05/19/25 14:33
Dissolved	Prep	200.8			6853	RMN	EET SSM	05/16/25 15:07
Dissolved	Analysis	200.8		1	6904	CW	EET SSM	05/19/25 16:38
Total/NA	Prep	200.8			6851	RMN	EET SSM	05/16/25 14:59
Total/NA	Analysis	200.8		1	6904	CW	EET SSM	05/19/25 15:30
Dissolved	Prep	200.8-1994 R5.4			656178	MN7X	EET CLE	05/15/25 14:00
Dissolved	Analysis	200.8-1994 R5.4		1	656675	S4FJ	EET CLE	05/19/25 18:36
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	656675	S4FJ	EET CLE	05/19/25 18:33
Total Recoverable	Analysis	2340 B-2021		1	657024	KLC	EET CLE	05/22/25 08:14
Dissolved	Prep	245.1-1994 R3.0			656179	MN7X	EET CLE	05/15/25 14:00
Dissolved	Analysis	245.1-1994 R3.0		1	656390	S4FJ	EET CLE	05/16/25 14:32
Total/NA	Prep	245.1-1994 R3.0			656179	MN7X	EET CLE	05/15/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	656390	S4FJ	EET CLE	05/16/25 14:31
Total/NA	Analysis	2320 B-2021		1	656143	PQD2	EET CLE	05/14/25 19:34
Total/NA	Analysis	2540 C-2020		1	656139	AAP	EET CLE	05/15/25 09:45
Total/NA	Analysis	2540D-2020		1	656189	AAP	EET CLE	05/15/25 11:43
Total/NA	Analysis	300.0-1993 R2.1		1	656402	JMR	EET CLE	05/18/25 04:23

Eurofins Cleveland

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 240-224360-7

Date Collected: 05/12/25 09:10

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	200.8-1994 R5.4			656178	MN7X	EET CLE	05/15/25 14:00
Dissolved	Analysis	200.7 R4.4-1994		1	656663	KLC	EET CLE	05/19/25 14:47
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.7 R4.4-1994		1	656663	KLC	EET CLE	05/19/25 14:42
Dissolved	Prep	200.8			6853	RMN	EET SSM	05/16/25 15:07
Dissolved	Analysis	200.8		1	6904	CW	EET SSM	05/19/25 16:41
Total/NA	Prep	200.8			6851	RMN	EET SSM	05/16/25 14:59
Total/NA	Analysis	200.8		1	6904	CW	EET SSM	05/19/25 15:32
Dissolved	Prep	200.8-1994 R5.4			656178	MN7X	EET CLE	05/15/25 14:00
Dissolved	Analysis	200.8-1994 R5.4		1	656675	S4FJ	EET CLE	05/19/25 18:41
Total Recoverable	Prep	200.7			656178	MN7X	EET CLE	05/15/25 14:00
Total Recoverable	Analysis	200.8-1994 R5.4		1	656675	S4FJ	EET CLE	05/19/25 18:38
Total Recoverable	Analysis	2340 B-2021		1	657024	KLC	EET CLE	05/22/25 08:14
Dissolved	Prep	245.1-1994 R3.0			656179	MN7X	EET CLE	05/15/25 14:00
Dissolved	Analysis	245.1-1994 R3.0		1	656390	S4FJ	EET CLE	05/16/25 14:36
Total/NA	Prep	245.1-1994 R3.0			656179	MN7X	EET CLE	05/15/25 14:00
Total/NA	Analysis	245.1-1994 R3.0		1	656390	S4FJ	EET CLE	05/16/25 14:34
Total/NA	Analysis	2320 B-2021		1	656143	PQD2	EET CLE	05/14/25 19:37
Total/NA	Analysis	2540 C-2020		1	656139	AAP	EET CLE	05/15/25 09:45
Total/NA	Analysis	2540D-2020		1	656189	AAP	EET CLE	05/15/25 11:43
Total/NA	Analysis	300.0-1993 R2.1		1	656402	JMR	EET CLE	05/18/25 04:44

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-1

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4062	02-27-26

Laboratory: Eurofins Seattle Specialty Metals

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	20-004	02-19-27
ANAB	Dept. of Defense ELAP	L2236	01-19-27
ANAB	Dept. of Energy	L2236.01	01-19-27
ANAB	ISO/IEC 17025	L2236	01-19-27
California	State	2954	07-08-26
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-26
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-24-28
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

Chain of Custody

Return Samples to: Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203

Contains Rush Work: ☐

Contains Methods That May Expire Soon: ☐



240-224360 COC

Client Contact Info		Project Info		Methods and Bottles	
Name: Jennifer Caporale		Company: Lansing Board of Water & Light	Project Manager: Howell, Leslie		
Address : 1110 South Pennsylvania		Purchase Order: Purchase Order not required	Project Reference:		
Address 2:		Work Order:	Sampler: Marc Wahrer and Julie Maltby		
City, State Zip: Lansing, Michigan 48901		Requested TAT:	Description: Erickson Projects		
Phone: 517-702-6482		Project Number: 24034575	Site Name: Erickson Projects		
Email: Jennifer.Caporale@LBWL.com		Sample State: MI			
Deliverables:		Special Instructions: Need Premium EDD; Level 4 Report; Please use the reporting limits that are attached to this project.			

Samples																											
#	Sample Name	Type	Matrix	Date/Time (24hr)	MS / MSD	Instructions/Comments	Lat/Long	200.7/200.7_P_TR Total Boron [C01]	200.8/200.8_P_TR Project List [19] [C01]	2540C_Calcd Total Dissolved Solids [TDS]	903.0/PrecSep_21 Standard Target List [STD]	904.0/PrecSep_0 Standard Target List [STD]	245.1/245.1_Prep Mercury [MER]	2540D Solids, Total Suspended [TSS] [TSS]	300.0_28D Chloride, Fluoride & Sulfate [ANY]	SM2340B/Auto_TotalRec Total Hardness (as CaCO3) by calculation [HAR]	200.8_CWA Iron & Zinc	Ra226_228AS_P Combined Radium-226 & 228 [160]	2320B Bicarbonate & Carbonate Alkalinity [ANY]	Plastic 1 liter - unpreserved	Plastic 500ml - unpreserved	Plastic 250ml - with Nitric Acid	Plastic 1 liter - Nitric Acid	Plastic 500ml - with Nitric Acid	Plastic 60 mL - unpreserved	Plastic 500ml - w/ Nitric - Dis.	Total Bottles For Sample
1	L505202-01 MW-19A	Grab	Water	05/12/25 11:02				X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2		8
2	L505202-02 MW-19B	Grab	Water	05/12/25 12:42				X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2		8
3	L505202-03 MW-19C	Grab	Water	05/12/25 14:27				X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2		8
4	L505202-04 MW-19D	Grab	Water	05/12/25 13:20		Please add dissolved metals		X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2	1	9
5	L505202-05 MWT-19A	Grab	Water	05/12/25 11:02				X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2		8
6	FIELD BLANK	Grab	Water	05/12/25 09:25		Please add dissolved metals		X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2	1	9
7	EQUIPMENT BLANK	Grab	Water	05/12/25 09:10		Please add dissolved metals and all other analyses														1	1	1	2	1	2	1	9

Possible Hazards : Unknown

Sample Disposal (A fee may be assessed, if samples are retained longer than 1 month) :

Disposal by Lab

Custody History (All dates and times have been converted to the Eastern time zone and are in 24 Hr format.)

eCOC Submitted By:	Date/Time:	Samples Relinquished To:	Date/Time:	Received by:	
Jennifer Caporale	05/13/25 09:56	FedEX Jennifer Caporale	05/13/25 09:56	JMOROSKO 5/14/25 800	

Eurofins - Cleveland Sample Receipt Form/Narrative		Login # : _____	
Barberton Facility			
Client <u>Lansing Board of Water</u>	Site Name _____	Cooler unpacked by: <u>JMOROSKO</u>	
Cooler Received on <u>5/14/25</u>	Opened on <u>5/14/25</u>		
FedEx: 1 st Grd Exp <u>UPS</u> FAS <u>Wapint</u> Client Drop Off <u>Eurofins Courier</u> Other _____			
Receipt After-hours: Drop-off Date/Time _____		Storage Location _____	
Eurofins Cooler # <u>EC</u>	Foam Box _____	Client Cooler _____	Box _____ Other _____
Packing material used: Bubble Wrap _____ Foam _____ Plastic Bag _____ None _____ Other _____			
COOLANT: <u>Wet Ice</u> Blue Ice _____ Dry Ice _____ Water _____ None _____			
1. Cooler temperature upon receipt ☒ See Multiple Cooler Form			
IR GUN # <u>13</u> (CF <u>10.5</u> °C)		Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>			
-Were the seals on the outside of the cooler(s) signed & dated? <u>Yes</u> <u>No</u> <u>NA</u>			
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <u>Yes</u> <u>No</u> <u>NA</u>			
-Were tamper/custody seals intact and uncompromised? <u>Yes</u> <u>No</u> <u>NA</u>			
3. Shippers' packing slip attached to the cooler(s)? <u>Yes</u> <u>No</u> <u>NA</u>			
4. Did custody papers accompany the sample(s)? <u>Yes</u> <u>No</u> <u>NA</u>			
5. Were the custody papers relinquished & signed in the appropriate place? <u>Yes</u> <u>No</u> <u>NA</u>			
6. Was/were the person(s) who collected the samples clearly identified on the COC? <u>Yes</u> <u>No</u> <u>NA</u>			
7. Did all bottles arrive in good condition (Unbroken)? <u>Yes</u> <u>No</u> <u>NA</u>			
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? <u>Yes</u> <u>No</u> <u>NA</u>			
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? <u>Yes</u> <u>No</u> <u>NA</u>			
10. Were correct bottle(s) used for the test(s) indicated? <u>Yes</u> <u>No</u> <u>NA</u>			
11. Sufficient quantity received to perform indicated analyses? <u>Yes</u> <u>No</u> <u>NA</u>			
12. Are these work share samples and all listed on the COC? <u>Yes</u> <u>No</u> <u>NA</u>			
13. Were all preserved sample(s) at the correct pH upon receipt? <u>Yes</u> <u>No</u> <u>NA</u> pH Strip Lot# HC457151			
14. Were VOAs on the COC? <u>Yes</u> <u>No</u> <u>NA</u>			
15. Were air bubbles >6 mm in any VOA vials? <u>Yes</u> <u>No</u> <u>NA</u>			
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ <u>Yes</u> <u>No</u> <u>NA</u>			
17. Was a LL Hg or Me Hg trip blank present? <u>Yes</u> <u>No</u> <u>NA</u>			
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____			
Concerning _____			
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page		Labeled by: _____	
_____		Labels Verified by: _____	

19. SAMPLE CONDITION			
Sample(s) _____ were received after the recommended holding time had expired.			
Sample(s) _____ were received in a broken container.			
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)			
20. SAMPLE PRESERVATION			
Sample(s) _____ were further preserved in the laboratory.			
Time preserved: _____ Preservative(s) added/Lot number(s): _____			
VOA Sample Preservation - Date/Time VOAs Frozen: _____			

Temperature readings: _____

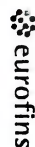
6/4/2025

Client Sample ID	Lab ID	Container Type	Container pH	Preservation Temp	Preservation Added	Preservation Lot Number
L505202-01 MW-19A	240-224360-A-1	Plastic 60 mL - unpreserved				
L505202-01 MW-19A	240-224360-B-1	Plastic 60 mL - unpreserved				
L505202-01 MW-19A	240-224360-C-1	Plastic 250ml - with Nitric Acid				
L505202-01 MW-19A	240-224360-D-1	Plastic 500ml - unpreserved				
L505202-01 MW-19A	240-224360-E-1	Plastic 500ml - with Nitric Acid	<2			
L505202-01 MW-19A	240-224360-F-1	Plastic 1 liter - unpreserved				
L505202-01 MW-19A	240-224360-G-1	Plastic 1 liter - Nitric Acid	<2			
L505202-01 MW-19A	240-224360-H-1	Plastic 1 liter - Nitric Acid	<2			
L505202-02 MW-19B	240-224360-A-2	Plastic 60 mL - unpreserved				
L505202-02 MW-19B	240-224360-B-2	Plastic 60 mL - unpreserved				
L505202-02 MW-19B	240-224360-C-2	Plastic 250ml - with Nitric Acid				
L505202-02 MW-19B	240-224360-D-2	Plastic 500ml - unpreserved				
L505202-02 MW-19B	240-224360-E-2	Plastic 500ml - with Nitric Acid	<2			
L505202-02 MW-19B	240-224360-F-2	Plastic 1 liter - unpreserved				
L505202-02 MW-19B	240-224360-G-2	Plastic 1 liter - Nitric Acid	<2			
L505202-02 MW-19B	240-224360-H-2	Plastic 1 liter - Nitric Acid	<2			
L505202-03 MW-19C	240-224360-A-3	Plastic 60 mL - unpreserved				
L505202-03 MW-19C	240-224360-B-3	Plastic 60 mL - unpreserved				
L505202-03 MW-19C	240-224360-C-3	Plastic 250ml - with Nitric Acid				
L505202-03 MW-19C	240-224360-D-3	Plastic 500ml - unpreserved				
L505202-03 MW-19C	240-224360-E-3	Plastic 500ml - with Nitric Acid	<2			
L505202-03 MW-19C	240-224360-F-3	Plastic 1 liter - unpreserved				
L505202-03 MW-19C	240-224360-G-3	Plastic 1 liter - Nitric Acid	<2			
L505202-03 MW-19C	240-224360-H-3	Plastic 1 liter - Nitric Acid	<2			
L505202-04 MW-19D	240-224360-A-4	Plastic 60 mL - unpreserved				
L505202-04 MW-19D	240-224360-B-4	Plastic 60 mL - unpreserved				
L505202-04 MW-19D	240-224360-C-4	Plastic 250ml - with Nitric Acid				
L505202-04 MW-19D	240-224360-D-4	Plastic 500ml - unpreserved				
L505202-04 MW-19D	240-224360-E-4	Plastic 500ml - with Nitric Acid	<2			
L505202-04 MW-19D	240-224360-F-4	Plastic 500ml - w/ Nitric - Dis.	<2			
L505202-04 MW-19D	240-224360-G-4	Plastic 1 liter - unpreserved				
L505202-04 MW-19D	240-224360-H-4	Plastic 1 liter - Nitric Acid	<2			
L505202-04 MW-19D	240-224360-I-4	Plastic 1 liter - Nitric Acid	<2			
L505202-04 MW-19D	240-224360-J-4	Plastic 250ml - w/nitric - dis	<2			
L505202-05 MW-T-19A	240-224360-A-5	Plastic 60 mL - unpreserved				

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Temp</u>	<u>Preservation</u> <u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
L505202-05 MWT-19A	240-224360-B-5	Plastic 60 mL - unpreserved				
L505202-05 MWT-19A	240-224360-C-5	Plastic 250ml - with Nitric Acid				
L505202-05 MWT-19A	240-224360-D-5	Plastic 500ml - unpreserved				
L505202-05 MWT-19A	240-224360-E-5	Plastic 500ml - with Nitric Acid	<2			
L505202-05 MWT-19A	240-224360-F-5	Plastic 1 liter - unpreserved				
L505202-05 MWT-19A	240-224360-G-5	Plastic 1 liter - Nitric Acid	<2			
L505202-05 MWT-19A	240-224360-H-5	Plastic 1 liter - Nitric Acid	<2			
FIELD BLANK	240-224360-A-6	Plastic 60 mL - unpreserved				
FIELD BLANK	240-224360-B-6	Plastic 60 mL - unpreserved				
FIELD BLANK	240-224360-C-6	Plastic 250ml - with Nitric Acid				
FIELD BLANK	240-224360-D-6	Plastic 500ml - unpreserved				
FIELD BLANK	240-224360-E-6	Plastic 500ml - with Nitric Acid	<2			
FIELD BLANK	240-224360-F-6	Plastic 500ml - w/ Nitric - Dis.	<2			
FIELD BLANK	240-224360-G-6	Plastic 1 liter - unpreserved				
FIELD BLANK	240-224360-H-6	Plastic 1 liter - Nitric Acid	<2			
FIELD BLANK	240-224360-I-6	Plastic 1 liter - Nitric Acid	<2			
FIELD BLANK	240-224360-J-6	Plastic 250ml - w/nitric - dis	<2			
EQUIPMENT BLANK	240-224360-A-7	Plastic 60 mL - unpreserved				
EQUIPMENT BLANK	240-224360-B-7	Plastic 60 mL - unpreserved				
EQUIPMENT BLANK	240-224360-C-7	Plastic 250ml - with Nitric Acid				
EQUIPMENT BLANK	240-224360-D-7	Plastic 500ml - unpreserved				
EQUIPMENT BLANK	240-224360-E-7	Plastic 500ml - with Nitric Acid	<2			
EQUIPMENT BLANK	240-224360-F-7	Plastic 500ml - w/ Nitric - Dis.	<2			
EQUIPMENT BLANK	240-224360-G-7	Plastic 1 liter - unpreserved				
EQUIPMENT BLANK	240-224360-H-7	Plastic 1 liter - Nitric Acid	<2			
EQUIPMENT BLANK	240-224360-I-7	Plastic 1 liter - Nitric Acid	<2			
EQUIPMENT BLANK	240-224360-J-7	Plastic 250ml - w/nitric - dis	<2			

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking Note:	COC No:
Client Contact:		N/A	Howell, Leslie	N/A	240-202399.1
Shipping/Receiving		Phone:	E-Mail:	State of Origin:	Page:
Eurofins Environment Testing Northwest L		N/A	Leslie.Howell@eurofins.com	Michigan	Page 1 of 1
Address:		Due Date Requested:	Accreditations Required (See note):		Job #:
5755 8th Street East,		5/28/2025	NELAP - Oregon		240-224360-1
City:		TAT Requested (days):	Analysis Requested		Preservation Codes:
Tacoma		N/A			
State, Zip:		PO #:			
WA, 98424		N/A			
Phone:		WO #:			
253-922-2310(Tel)		N/A			
Email:		Project #:			
N/A		24034575			
Project Name:		SSOW#:			
Erickson Projects		N/A			
Site:					
N/A					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Other, A=Air)
L505202-01 MW-19A (240-224360-1)		5/12/25	11:02	G	Water
L505202-02 MW-19B (240-224360-2)		5/12/25	12:42	G	Water
L505202-03 MW-19C (240-224360-3)		5/12/25	14:27	G	Water
L505202-04 MW-19D (240-224360-4)		5/12/25	13:20	G	Water
L505202-05 MW-19A (240-224360-5)		5/12/25	11:02	G	Water
FIELD BLANK (240-224360-6)		5/12/25	09:25	G	Water
EQUIPMENT BLANK (240-224360-7)		5/12/25	09:10	G	Water
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)			
200.8_CWA/200.8_P_TOT (MOD) Iron & Zinc					
200.8_CWA/FIELD_FLTRD (MOD) Custom List 2: 2-3 Metals					
Total Number of Containers					
Special Instructions/Note:					
Therm. ID: SC04 Cust. Seal: 4/N					
Uncorr./Corr. Temp: 20.1/14.8°C					
Delivery: UPS (FedEx) Others					
Ice Type: Blue / Dry / Wet / None					
Label Ver.: 1					
Packing: 13					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2			
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: J Collins		5/14/25		Received by: J Collins	
Relinquished by:		Date/Time:	Company:	Received by:	
Relinquished by:		Date/Time:	Company:	Received by:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	
A Yes A No					

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-224360-1

Login Number: 224360

List Number: 3

Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals

List Creation: 05/15/25 01:12 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.	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	
Is the Field Sampler's name present on COC?	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	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Cleveland

ANALYTICAL REPORT

PREPARED FOR

Attn: Jennifer Caporale
Lansing Board of Water & Light
1110 South Pennsylvania
Lansing, Michigan 48901

Generated 6/13/2025 9:29:24 AM

JOB DESCRIPTION

Erickson Projects

JOB NUMBER

240-224360-2

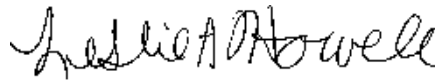
Eurofins Cleveland

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 Environment Testing North Central, LLC Project Manager.

Authorization



Generated
6/13/2025 9:29:24 AM

Authorized for release by
Leslie Howell, Project Manager I
Leslie.Howell@et.eurofinsus.com
(330)966-9266

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Definitions/Glossary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

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: Lansing Board of Water & Light
Project: Erickson Projects

Job ID: 240-224360-2

Job ID: 240-224360-2

Eurofins Cleveland

Job Narrative 240-224360-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/14/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.9°C, 3.2°C and 3.6°C.

Gas Flow Proportional Counter

Method 904.0: Radium-228 batch 717725

The detection goal was not met for the following sample due to the reduced sample volume used in prep attributed to the presence of matrix interferences: L505202-04 MW-19D (240-224360-4). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium 228 batch 718191

The LCS recovered at (128%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (68%-154%) per method requirements. The LCS passes, no further action is required

(LCS 160-718191/2-A)

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.

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Method Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

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: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-224360-1	L505202-01 MW-19A	Water	05/12/25 11:02	05/14/25 08:00
240-224360-2	L505202-02 MW-19B	Water	05/12/25 12:42	05/14/25 08:00
240-224360-3	L505202-03 MW-19C	Water	05/12/25 14:27	05/14/25 08:00
240-224360-4	L505202-04 MW-19D	Water	05/12/25 13:20	05/14/25 08:00
240-224360-5	L505202-05 MWT-19A	Water	05/12/25 11:02	05/14/25 08:00
240-224360-6	FIELD BLANK	Water	05/12/25 09:25	05/14/25 08:00
240-224360-7	EQUIPMENT BLANK	Water	05/12/25 09:10	05/14/25 08:00

Detection Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Client Sample ID: L505202-01 MW-19A

Lab Sample ID: 240-224360-1

☐ No Detections.

Client Sample ID: L505202-02 MW-19B

Lab Sample ID: 240-224360-2

☐ No Detections.

Client Sample ID: L505202-03 MW-19C

Lab Sample ID: 240-224360-3

☐ No Detections.

Client Sample ID: L505202-04 MW-19D

Lab Sample ID: 240-224360-4

☐ No Detections.

Client Sample ID: L505202-05 MWT-19A

Lab Sample ID: 240-224360-5

☐ No Detections.

Client Sample ID: FIELD BLANK

Lab Sample ID: 240-224360-6

☐ No Detections.

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 240-224360-7

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Client Sample ID: L505202-01 MW-19A

Lab Sample ID: 240-224360-1

Date Collected: 05/12/25 11:02

Matrix: Water

Date Received: 05/14/25 08:00

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	0.0852	U	0.201	0.201	1.00	0.360	pCi/L	05/15/25 15:57	06/11/25 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					05/15/25 15:57	06/11/25 09:23	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	0.468	U	0.338	0.340	1.00	0.507	pCi/L	05/15/25 16:00	06/10/25 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					05/15/25 16:00	06/10/25 12:01	1
Y Carrier	80.0		30 - 110					05/15/25 16:00	06/10/25 12:01	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	0.554		0.393	0.395	5.00	0.507	pCi/L		06/11/25 17:00	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Client Sample ID: L505202-02 MW-19B

Lab Sample ID: 240-224360-2

Date Collected: 05/12/25 12:42

Matrix: Water

Date Received: 05/14/25 08:00

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	0.312	U	0.238	0.240	1.00	0.352	pCi/L	05/15/25 15:57	06/10/25 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		30 - 110					05/15/25 15:57	06/10/25 20:21	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	0.495		0.328	0.332	1.00	0.478	pCi/L	05/15/25 16:00	06/10/25 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		30 - 110					05/15/25 16:00	06/10/25 12:01	1
Y Carrier	76.6		30 - 110					05/15/25 16:00	06/10/25 12:01	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	0.807		0.405	0.410	5.00	0.478	pCi/L		06/11/25 17:00	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Client Sample ID: L505202-03 MW-19C

Lab Sample ID: 240-224360-3

Date Collected: 05/12/25 14:27

Matrix: Water

Date Received: 05/14/25 08:00

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	0.581		0.294	0.299	1.00	0.373	pCi/L	05/15/25 15:57	06/10/25 21:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		30 - 110					05/15/25 15:57	06/10/25 21:27	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	0.321	U	0.379	0.380	1.00	0.625	pCi/L	05/15/25 16:00	06/10/25 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		30 - 110					05/15/25 16:00	06/10/25 12:01	1
Y Carrier	81.5		30 - 110					05/15/25 16:00	06/10/25 12:01	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	0.902		0.480	0.484	5.00	0.625	pCi/L		06/11/25 17:00	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Client Sample ID: L505202-04 MW-19D

Lab Sample ID: 240-224360-4

Date Collected: 05/12/25 13:20

Matrix: Water

Date Received: 05/14/25 08:00

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	0.680	U	0.526	0.530	1.00	0.747	pCi/L	05/15/25 15:57	06/10/25 21:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.9		30 - 110					05/15/25 15:57	06/10/25 21:28	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	1.33	U G	1.26	1.27	1.00	2.03	pCi/L	05/15/25 16:00	06/10/25 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.9		30 - 110					05/15/25 16:00	06/10/25 12:01	1
Y Carrier	74.0		30 - 110					05/15/25 16:00	06/10/25 12:01	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	2.01	U	1.37	1.38	5.00	2.03	pCi/L		06/11/25 17:00	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Client Sample ID: L505202-05 MWT-19A

Lab Sample ID: 240-224360-5

Date Collected: 05/12/25 11:02

Matrix: Water

Date Received: 05/14/25 08:00

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	0.402		0.268	0.270	1.00	0.379	pCi/L	05/19/25 08:18	06/10/25 15:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					05/19/25 08:18	06/10/25 15:51	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	0.464	U	0.351	0.354	1.00	0.541	pCi/L	05/19/25 08:24	06/10/25 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					05/19/25 08:24	06/10/25 11:57	1
Y Carrier	87.1		30 - 110					05/19/25 08:24	06/10/25 11:57	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	0.866		0.442	0.445	5.00	0.541	pCi/L		06/11/25 17:00	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Client Sample ID: FIELD BLANK

Lab Sample ID: 240-224360-6

Date Collected: 05/12/25 09:25

Matrix: Water

Date Received: 05/14/25 08:00

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	0.0935	U	0.189	0.189	1.00	0.337	pCi/L	05/15/25 15:57	06/10/25 21:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					05/15/25 15:57	06/10/25 21:28	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	0.312	U	0.325	0.326	1.00	0.526	pCi/L	05/15/25 16:00	06/10/25 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					05/15/25 16:00	06/10/25 12:01	1
Y Carrier	83.7		30 - 110					05/15/25 16:00	06/10/25 12:01	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	0.406	U	0.376	0.377	5.00	0.526	pCi/L		06/11/25 17:00	1

Client Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 240-224360-7

Date Collected: 05/12/25 09:10

Matrix: Water

Date Received: 05/14/25 08:00

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	0.215	U	0.196	0.197	1.00	0.300	pCi/L	05/15/25 15:57	06/10/25 21:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					05/15/25 15:57	06/10/25 21:28	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	0.263	U	0.334	0.335	1.00	0.556	pCi/L	05/15/25 16:00	06/10/25 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					05/15/25 16:00	06/10/25 12:01	1
Y Carrier	77.4		30 - 110					05/15/25 16:00	06/10/25 12:01	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	0.478	U	0.387	0.389	5.00	0.556	pCi/L		06/11/25 17:00	1

Tracer/Carrier Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
240-224360-1	L505202-01 MW-19A	89.3	
240-224360-2	L505202-02 MW-19B	89.6	
240-224360-3	L505202-03 MW-19C	79.6	
240-224360-4	L505202-04 MW-19D	60.9	
240-224360-5	L505202-05 MWT-19A	90.5	
240-224360-6	FIELD BLANK	93.0	
240-224360-7	EQUIPMENT BLANK	94.0	
LCS 160-717724/2-A	Lab Control Sample	89.6	
LCS 160-718079/2-A	Lab Control Sample	81.6	
LCSD 160-718079/24-A	Lab Control Sample Dup	92.8	
MB 160-717724/1-A	Method Blank	89.1	
MB 160-718079/1-A	Method Blank	83.8	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
240-224360-1	L505202-01 MW-19A	89.3	80.0
240-224360-2	L505202-02 MW-19B	89.6	76.6
240-224360-3	L505202-03 MW-19C	79.6	81.5
240-224360-4	L505202-04 MW-19D	60.9	74.0
240-224360-5	L505202-05 MWT-19A	90.5	87.1
240-224360-6	FIELD BLANK	93.0	83.7
240-224360-7	EQUIPMENT BLANK	94.0	77.4
LCS 160-717725/2-A	Lab Control Sample	89.6	79.6
LCS 160-718191/2-A	Lab Control Sample	81.6	85.6
LCSD 160-718191/24-A	Lab Control Sample Dup	92.8	91.2
MB 160-717725/1-A	Method Blank	89.1	81.5
MB 160-718191/1-A	Method Blank	83.8	86.7
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-717724/1-A

Matrix: Water

Analysis Batch: 721799

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 717724

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.001782	U	0.124	0.124	1.00	0.256	pCi/L	05/15/25 15:57	06/11/25 09:23	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110					05/15/25 15:57	06/11/25 09:23	1

Lab Sample ID: LCS 160-717724/2-A

Matrix: Water

Analysis Batch: 721799

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 717724

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	9.398		1.19	1.00	0.348	pCi/L	98	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	89.6		30 - 110							

Lab Sample ID: MB 160-718079/1-A

Matrix: Water

Analysis Batch: 721722

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 718079

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.06883	U	0.214	0.214	1.00	0.451	pCi/L	05/19/25 08:18	06/10/25 15:52	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		30 - 110					05/19/25 08:18	06/10/25 15:52	1

Lab Sample ID: LCS 160-718079/2-A

Matrix: Water

Analysis Batch: 721722

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 718079

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	10.14		1.36	1.00	0.326	pCi/L	106	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	81.6		30 - 110							

Lab Sample ID: LCSD 160-718079/24-A

Matrix: Water

Analysis Batch: 721725

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 718079

Analyte		Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226		9.58	9.041		1.22	1.00	0.367	pCi/L	94	75 - 125	0.43	1

Eurofins Cleveland

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCSD 160-718079/24-A
Matrix: Water
Analysis Batch: 721725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 718079

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.8		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-717725/1-A
Matrix: Water
Analysis Batch: 721730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 717725

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1829	U	0.343	0.344	1.00	0.592	pCi/L	05/15/25 16:00	06/10/25 12:01	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110					05/15/25 16:00	06/10/25 12:01	1
Y Carrier	81.5		30 - 110					05/15/25 16:00	06/10/25 12:01	1

Lab Sample ID: LCS 160-717725/2-A
Matrix: Water
Analysis Batch: 721730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 717725

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.36	11.11		1.47	1.00	0.561	pCi/L	119	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	89.6		30 - 110						
Y Carrier	79.6		30 - 110						

Lab Sample ID: MB 160-718191/1-A
Matrix: Water
Analysis Batch: 721722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 718191

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5560		0.371	0.374	1.00	0.555	pCi/L	05/19/25 08:24	06/10/25 11:48	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		30 - 110					05/19/25 08:24	06/10/25 11:48	1
Y Carrier	86.7		30 - 110					05/19/25 08:24	06/10/25 11:48	1

Lab Sample ID: LCS 160-718191/2-A
Matrix: Water
Analysis Batch: 721722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 718191

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.36	11.96		1.55	1.00	0.557	pCi/L	128	75 - 125

Eurofins Cleveland

QC Sample Results

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-718191/2-A
Matrix: Water
Analysis Batch: 721722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 718191

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	81.6		30 - 110
Y Carrier	85.6		30 - 110

Lab Sample ID: LCSD 160-718191/24-A
Matrix: Water
Analysis Batch: 721730

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 718191

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	9.36	10.07		1.30	1.00	0.432	pCi/L	108	75 - 125	0.66	1

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.8		30 - 110
Y Carrier	91.2		30 - 110

QC Association Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Rad

Prep Batch: 717724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total/NA	Water	PrecSep-21	
240-224360-2	L505202-02 MW-19B	Total/NA	Water	PrecSep-21	
240-224360-3	L505202-03 MW-19C	Total/NA	Water	PrecSep-21	
240-224360-4	L505202-04 MW-19D	Total/NA	Water	PrecSep-21	
240-224360-6	FIELD BLANK	Total/NA	Water	PrecSep-21	
240-224360-7	EQUIPMENT BLANK	Total/NA	Water	PrecSep-21	
MB 160-717724/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-717724/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 717725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-1	L505202-01 MW-19A	Total/NA	Water	PrecSep_0	
240-224360-2	L505202-02 MW-19B	Total/NA	Water	PrecSep_0	
240-224360-3	L505202-03 MW-19C	Total/NA	Water	PrecSep_0	
240-224360-4	L505202-04 MW-19D	Total/NA	Water	PrecSep_0	
240-224360-6	FIELD BLANK	Total/NA	Water	PrecSep_0	
240-224360-7	EQUIPMENT BLANK	Total/NA	Water	PrecSep_0	
MB 160-717725/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-717725/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 718079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-5	L505202-05 MWT-19A	Total/NA	Water	PrecSep-21	
MB 160-718079/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-718079/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-718079/24-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 718191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224360-5	L505202-05 MWT-19A	Total/NA	Water	PrecSep_0	
MB 160-718191/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-718191/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-718191/24-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Client Sample ID: L505202-01 MW-19A

Lab Sample ID: 240-224360-1

Date Collected: 05/12/25 11:02

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			717724	OGC	EET SL	05/15/25 15:57
Total/NA	Analysis	903.0		1	721799	SWS	EET SL	06/11/25 09:23
Total/NA	Prep	PrecSep_0			717725	OGC	EET SL	05/15/25 16:00
Total/NA	Analysis	904.0		1	721730	SCB	EET SL	06/10/25 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	721966	SCB	EET SL	06/11/25 17:00

Client Sample ID: L505202-02 MW-19B

Lab Sample ID: 240-224360-2

Date Collected: 05/12/25 12:42

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			717724	OGC	EET SL	05/15/25 15:57
Total/NA	Analysis	903.0		1	721725	FLC	EET SL	06/10/25 20:21
Total/NA	Prep	PrecSep_0			717725	OGC	EET SL	05/15/25 16:00
Total/NA	Analysis	904.0		1	721730	SCB	EET SL	06/10/25 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	721966	SCB	EET SL	06/11/25 17:00

Client Sample ID: L505202-03 MW-19C

Lab Sample ID: 240-224360-3

Date Collected: 05/12/25 14:27

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			717724	OGC	EET SL	05/15/25 15:57
Total/NA	Analysis	903.0		1	721725	FLC	EET SL	06/10/25 21:27
Total/NA	Prep	PrecSep_0			717725	OGC	EET SL	05/15/25 16:00
Total/NA	Analysis	904.0		1	721730	SCB	EET SL	06/10/25 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	721966	SCB	EET SL	06/11/25 17:00

Client Sample ID: L505202-04 MW-19D

Lab Sample ID: 240-224360-4

Date Collected: 05/12/25 13:20

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			717724	OGC	EET SL	05/15/25 15:57
Total/NA	Analysis	903.0		1	721725	FLC	EET SL	06/10/25 21:28
Total/NA	Prep	PrecSep_0			717725	OGC	EET SL	05/15/25 16:00
Total/NA	Analysis	904.0		1	721730	SCB	EET SL	06/10/25 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	721966	SCB	EET SL	06/11/25 17:00

Lab Chronicle

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

Client Sample ID: L505202-05 MWT-19A

Lab Sample ID: 240-224360-5

Date Collected: 05/12/25 11:02

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			718079	OGC	EET SL	05/19/25 08:18
Total/NA	Analysis	903.0		1	721725	FLC	EET SL	06/10/25 15:51
Total/NA	Prep	PrecSep_0			718191	OGC	EET SL	05/19/25 08:24
Total/NA	Analysis	904.0		1	721730	SCB	EET SL	06/10/25 11:57
Total/NA	Analysis	Ra226_Ra228 Pos		1	721966	SCB	EET SL	06/11/25 17:00

Client Sample ID: FIELD BLANK

Lab Sample ID: 240-224360-6

Date Collected: 05/12/25 09:25

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			717724	OGC	EET SL	05/15/25 15:57
Total/NA	Analysis	903.0		1	721725	FLC	EET SL	06/10/25 21:28
Total/NA	Prep	PrecSep_0			717725	OGC	EET SL	05/15/25 16:00
Total/NA	Analysis	904.0		1	721730	SCB	EET SL	06/10/25 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	721966	SCB	EET SL	06/11/25 17:00

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 240-224360-7

Date Collected: 05/12/25 09:10

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			717724	OGC	EET SL	05/15/25 15:57
Total/NA	Analysis	903.0		1	721725	FLC	EET SL	06/10/25 21:28
Total/NA	Prep	PrecSep_0			717725	OGC	EET SL	05/15/25 16:00
Total/NA	Analysis	904.0		1	721730	SCB	EET SL	06/10/25 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	721966	SCB	EET SL	06/11/25 17:00

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Lansing Board of Water & Light
Project/Site: Erickson Projects

Job ID: 240-224360-2

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	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
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	06-30-25
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
MI - RadChem Recognition	State	9005	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-26
North Carolina (DW)	State	29700	08-02-25
North Dakota	State	R-207	06-30-25
Oklahoma	NELAP	9997	08-31-25
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Cleveland

Chain of Custody

Return Samples to: Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203

Contains Rush Work: ☐

Contains Methods That May Expire Soon: ☐



240-224360 COC

Client Contact Info		Project Info		Methods and Bottles	
Name: Jennifer Caporale		Company: Lansing Board of Water & Light	Project Manager: Howell, Leslie		
Address : 1110 South Pennsylvania		Purchase Order: Purchase Order not required	Project Reference:		
Address 2:		Work Order:	Sampler: Marc Wahrer and Julie Maltby		
City, State Zip: Lansing, Michigan 48901		Requested TAT:	Description: Erickson Projects		
Phone: 517-702-6482		Project Number: 24034575	Site Name: Erickson Projects		
Email: Jennifer.Caporale@LBWL.com		Sample State: MI			
Deliverables:		Special Instructions: Need Premium EDD; Level 4 Report; Please use the reporting limits that are attached to this project.			

Samples																											
#	Sample Name	Type	Matrix	Date/Time (24hr)	MS / MSD	Instructions/Comments	Lat/Long	200.7/200.7_P_TR Total Boron [C01]	200.8/200.8_P_TR Project List [19] [C01]	2540C_Calcd Total Dissolved Solids [TDS]	903.0/PrecSep_21 Standard Target List [STD]	904.0/PrecSep_0 Standard Target List [STD]	245.1/245.1_Prep Mercury [MER]	2540D Solids, Total Suspended [TSS] [TSS]	300.0_28D Chloride, Fluoride & Sulfate [ANY]	SM2340B/Auto_TotalRec Total Hardness (as CaCO3) by calculation [HAR]	200.8_CWA Iron & Zinc	Ra226_228AS_P Combined Radium-226 & 228 [160]	2320B Bicarbonate & Carbonate Alkalinity [ANY]	Plastic 1 liter - unpreserved	Plastic 500ml - unpreserved	Plastic 250ml - with Nitric Acid	Plastic 1 liter - Nitric Acid	Plastic 500ml - with Nitric Acid	Plastic 60 mL - unpreserved	Plastic 500ml - w/ Nitric - Dis.	Total Bottles For Sample
1	L505202-01 MW-19A	Grab	Water	05/12/25 11:02				X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2		8
2	L505202-02 MW-19B	Grab	Water	05/12/25 12:42				X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2		8
3	L505202-03 MW-19C	Grab	Water	05/12/25 14:27				X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2		8
4	L505202-04 MW-19D	Grab	Water	05/12/25 13:20		Please add dissolved metals		X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2	1	9
5	L505202-05 MWT-19A	Grab	Water	05/12/25 11:02				X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2		8
6	FIELD BLANK	Grab	Water	05/12/25 09:25		Please add dissolved metals		X	X	X	X	X	X	X	X	X	X	X	X	1	1	1	2	1	2	1	9
7	EQUIPMENT BLANK	Grab	Water	05/12/25 09:10		Please add dissolved metals and all other analyses														1	1	1	2	1	2	1	9

Possible Hazards : Unknown

Sample Disposal (A fee may be assessed, if samples are retained longer than 1 month) :

Disposal by Lab

Custody History (All dates and times have been converted to the Eastern time zone and are in 24 Hr format.)

eCOC Submitted By:	Date/Time:	Samples Relinquished To:	Date/Time:	Received by:	
Jennifer Caporale	05/13/25 09:56	FedEX Jennifer Caporale	05/13/25 09:56	JMOROSKO 5/14/25 800	

Eurofins - Cleveland Sample Receipt Form/Narrative		Login # : _____	
Barberton Facility			
Client <u>Lansing Board of Water</u>	Site Name _____	Cooler unpacked by: <u>JMOROSKO</u>	
Cooler Received on <u>5/14/25</u>	Opened on <u>5/14/25</u>		
FedEx: 1 st Grd Exp <u>UPS</u> FAS <u>Wapint</u> Client Drop Off <u>Eurofins Courier</u> Other _____			
Receipt After-hours: Drop-off Date/Time _____		Storage Location _____	
Eurofins Cooler # <u>EC</u>	Foam Box _____	Client Cooler _____	Box _____ Other _____
Packing material used: Bubble Wrap _____ Foam _____ Plastic Bag _____ None _____ Other _____			
COOLANT: <u>Wet Ice</u> Blue Ice _____ Dry Ice _____ Water _____ None _____			
1. Cooler temperature upon receipt ☒ See Multiple Cooler Form			
IR GUN # <u>13</u>	(CF <u>10.5</u> °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> ☒ Yes ☒ No -Were the seals on the outside of the cooler(s) signed & dated? ☒ Yes ☒ No ☒ NA -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? ☒ Yes ☒ No ☒ NA -Were tamper/custody seals intact and uncompromised? ☒ Yes ☒ No ☒ NA			
3. Shippers' packing slip attached to the cooler(s)? ☒ Yes ☒ No			
4. Did custody papers accompany the sample(s)? ☒ Yes ☒ No			
5. Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☒ No			
6. Was/were the person(s) who collected the samples clearly identified on the COC? ☒ Yes ☒ No			
7. Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☒ No			
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? ☒ Yes ☒ No			
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? ☒ Yes ☒ No			
10. Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☒ No			
11. Sufficient quantity received to perform indicated analyses? ☒ Yes ☒ No			
12. Are these work share samples and all listed on the COC? ☒ Yes ☒ No			
13. Were all preserved sample(s) at the correct pH upon receipt? ☒ Yes ☒ No ☒ NA pH Strip Lot# HC457151			
14. Were VOAs on the COC? ☒ Yes ☒ No			
15. Were air bubbles >6 mm in any VOA vials? ☒ Yes ☒ No ☒ NA			
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ ☒ Yes ☒ No			
17. Was a LL Hg or Me Hg trip blank present? ☒ Yes ☒ No			
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____			
Concerning _____			
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page		Labeled by: _____	
		Labels Verified by: _____	
19. SAMPLE CONDITION			
Sample(s) _____ were received after the recommended holding time had expired.			
Sample(s) _____ were received in a broken container.			
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)			
20. SAMPLE PRESERVATION			
Sample(s) _____ were further preserved in the laboratory.			
Time preserved: _____ Preservative(s) added/Lot number(s): _____			
VOA Sample Preservation - Date/Time VOAs Frozen: _____			

Temperature readings: _____

6/13/2025

Client Sample ID	Lab ID	Container Type	Container pH	Preservation Temp	Preservation Added	Preservation Lot Number
L505202-01 MW-19A	240-224360-A-1	Plastic 60 mL - unpreserved	_____	_____	_____	_____
L505202-01 MW-19A	240-224360-B-1	Plastic 60 mL - unpreserved	_____	_____	_____	_____
L505202-01 MW-19A	240-224360-C-1	Plastic 250ml - with Nitric Acid	_____	_____	_____	_____
L505202-01 MW-19A	240-224360-D-1	Plastic 500ml - unpreserved	_____	_____	_____	_____
L505202-01 MW-19A	240-224360-E-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
L505202-01 MW-19A	240-224360-F-1	Plastic 1 liter - unpreserved	_____	_____	_____	_____
L505202-01 MW-19A	240-224360-G-1	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
L505202-01 MW-19A	240-224360-H-1	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
L505202-02 MW-19B	240-224360-A-2	Plastic 60 mL - unpreserved	_____	_____	_____	_____
L505202-02 MW-19B	240-224360-B-2	Plastic 60 mL - unpreserved	_____	_____	_____	_____
L505202-02 MW-19B	240-224360-C-2	Plastic 250ml - with Nitric Acid	_____	_____	_____	_____
L505202-02 MW-19B	240-224360-D-2	Plastic 500ml - unpreserved	_____	_____	_____	_____
L505202-02 MW-19B	240-224360-E-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
L505202-02 MW-19B	240-224360-F-2	Plastic 1 liter - unpreserved	_____	_____	_____	_____
L505202-02 MW-19B	240-224360-G-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
L505202-02 MW-19B	240-224360-H-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
L505202-03 MW-19C	240-224360-A-3	Plastic 60 mL - unpreserved	_____	_____	_____	_____
L505202-03 MW-19C	240-224360-B-3	Plastic 60 mL - unpreserved	_____	_____	_____	_____
L505202-03 MW-19C	240-224360-C-3	Plastic 250ml - with Nitric Acid	_____	_____	_____	_____
L505202-03 MW-19C	240-224360-D-3	Plastic 500ml - unpreserved	_____	_____	_____	_____
L505202-03 MW-19C	240-224360-E-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
L505202-03 MW-19C	240-224360-F-3	Plastic 1 liter - unpreserved	_____	_____	_____	_____
L505202-03 MW-19C	240-224360-G-3	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
L505202-03 MW-19C	240-224360-H-3	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
L505202-04 MW-19D	240-224360-A-4	Plastic 60 mL - unpreserved	_____	_____	_____	_____
L505202-04 MW-19D	240-224360-B-4	Plastic 60 mL - unpreserved	_____	_____	_____	_____
L505202-04 MW-19D	240-224360-C-4	Plastic 250ml - with Nitric Acid	_____	_____	_____	_____
L505202-04 MW-19D	240-224360-D-4	Plastic 500ml - unpreserved	_____	_____	_____	_____
L505202-04 MW-19D	240-224360-E-4	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
L505202-04 MW-19D	240-224360-F-4	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____	_____
L505202-04 MW-19D	240-224360-G-4	Plastic 1 liter - unpreserved	_____	_____	_____	_____
L505202-04 MW-19D	240-224360-H-4	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
L505202-04 MW-19D	240-224360-I-4	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
L505202-04 MW-19D	240-224360-J-4	Plastic 250ml - w/nitric - dis	<2	_____	_____	_____
L505202-05 MW-T-19A	240-224360-A-5	Plastic 60 mL - unpreserved	_____	_____	_____	_____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservation</u> <u>Temp</u>	<u>Preservation</u> <u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
L505202-05 MWT-19A	240-224360-B-5	Plastic 60 mL - unpreserved				
L505202-05 MWT-19A	240-224360-C-5	Plastic 250ml - with Nitric Acid				
L505202-05 MWT-19A	240-224360-D-5	Plastic 500ml - unpreserved				
L505202-05 MWT-19A	240-224360-E-5	Plastic 500ml - with Nitric Acid	<2			
L505202-05 MWT-19A	240-224360-F-5	Plastic 1 liter - unpreserved				
L505202-05 MWT-19A	240-224360-G-5	Plastic 1 liter - Nitric Acid	<2			
L505202-05 MWT-19A	240-224360-H-5	Plastic 1 liter - Nitric Acid	<2			
FIELD BLANK	240-224360-A-6	Plastic 60 mL - unpreserved				
FIELD BLANK	240-224360-B-6	Plastic 60 mL - unpreserved				
FIELD BLANK	240-224360-C-6	Plastic 250ml - with Nitric Acid				
FIELD BLANK	240-224360-D-6	Plastic 500ml - unpreserved				
FIELD BLANK	240-224360-E-6	Plastic 500ml - with Nitric Acid	<2			
FIELD BLANK	240-224360-F-6	Plastic 500ml - w/ Nitric - Dis.	<2			
FIELD BLANK	240-224360-G-6	Plastic 1 liter - unpreserved				
FIELD BLANK	240-224360-H-6	Plastic 1 liter - Nitric Acid	<2			
FIELD BLANK	240-224360-I-6	Plastic 1 liter - Nitric Acid	<2			
FIELD BLANK	240-224360-J-6	Plastic 250ml - w/nitric - dis	<2			
EQUIPMENT BLANK	240-224360-A-7	Plastic 60 mL - unpreserved				
EQUIPMENT BLANK	240-224360-B-7	Plastic 60 mL - unpreserved				
EQUIPMENT BLANK	240-224360-C-7	Plastic 250ml - with Nitric Acid				
EQUIPMENT BLANK	240-224360-D-7	Plastic 500ml - unpreserved				
EQUIPMENT BLANK	240-224360-E-7	Plastic 500ml - with Nitric Acid	<2			
EQUIPMENT BLANK	240-224360-F-7	Plastic 500ml - w/ Nitric - Dis.	<2			
EQUIPMENT BLANK	240-224360-G-7	Plastic 1 liter - unpreserved				
EQUIPMENT BLANK	240-224360-H-7	Plastic 1 liter - Nitric Acid	<2			
EQUIPMENT BLANK	240-224360-I-7	Plastic 1 liter - Nitric Acid	<2			
EQUIPMENT BLANK	240-224360-J-7	Plastic 250ml - w/nitric - dis	<2			

Login Sample Receipt Checklist

Client: Lansing Board of Water & Light

Job Number: 240-224360-2

Login Number: 224360

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 05/15/25 11:17 AM

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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Cleveland

Data Verification & Validation Report

Lansing Board of Water & Light – Erickson Power Station

Sampling Event (dates and purpose): Background Sampling

Data Package Number: 240-218141-1

Lab Report Date: 3/5/2025

Data Validator: Andrew Byks

Data Validation Completion Date: 5/12/2025

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:

Well ID	Planned for Sampling
MW-1	
MW-2	
MW-3	
MW-4	
MW-5	
MW-6	
MW-7	
MW-7B	
MW-7C	
MW-8	
MW-9	
MW-10	
MW-11	
MW-11B	
MW-12	
MW-12B	
MW-13	
MW-14	
MW-15	
MW-16A	
MW-16B	
MW-16C	
MW-16D	
MW-17A	X
MW-17B	X
MW-17C	X
MW-17D	X
MW-17E	X
MW-18A	X
MW-18B	X
MW-18C	X
MW-18D	X
MW-100A	
MW-100B	
MW-100C	
MW-100D	

Data Summary

Sample ID	Matrix	Lab ID	Date Collected	App III Metals	App IV Metals	Part 115 Metals	Anions	TDS TSS	Rad-226 Rad-228	Diss. Metals
MW-17A	GW	240-218141-1	1/27/2025	X	X	X	X	X	X	
MW-17B	GW	240-218141-2	1/27/2025	X	X	X	X	X	X	
MW-17C	GW	240-218141-3	1/27/2025	X	X	X	X	X	X	
MW-17D	GW	240-218141-4	1/27/2025	X	X	X	X	X	X	
MW-17E	GW	240-218141-5	1/27/2025	X	X	X	X	X	X	
MW-18A	GW	240-218141-6	1/27/2025	X	X	X	X	X	X	
MW-18B	GW	240-218141-7	1/27/2025	X	X	X	X	X	X	
MW-18C	GW	240-218141-8	1/27/2025	X	X	X	X	X	X	
MW-18D	GW	240-218141-9	1/27/2025	X	X	X	X	X	X	
MWT-17A	GW	240-218141-10	1/27/2025	X	X	X	X	X	X	
Field Blank	W	240-218141-11	1/27/2025	X	X	X	X	X	X	

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

Any planned sampling or analysis NOT completed? If yes, explain: _____

Data Verification & Validation Checklist

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Field Data							
Sample Collection Field Forms	X		Purging performed as required in the Groundwater Monitoring Plan	X			
Field Calibration Records	X		Field instruments calibrated daily according to manufacturer specifications	X			
Chain of Custody	X		Accurately reflect samples, collection dates/times, analyses, bottles, etc.	X			
Field decontamination documentation	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		N/A	-	-	-	
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			
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			

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Method	X		Method as requested	X			
Reporting Limits	X		RLs as requested		X		RL for hardness not met
			MDLs<RLs	X			
			MDLs<MCLs	X			
			MDLs<GPS	X			
QC Validation							
Evaluate Accuracy							
Matrix Spike (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Laboratory Control Sample (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Evaluate Precision							
Matrix Spike Duplicate (RPD)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Field Duplicate (RPD)	X		RPD ≤ 20%		X		Field duplicate RPDs for Rad-226, combined Rad not met, see below
Evaluate Representativeness							
Equipment Blanks (if applicable)	X		Non-detect (<RL)	X			
QC Verification							
Verify Instrument Calibration & Analytical Process							
Initial Calibration Verification	X		Laboratory-determined	-	-	-	
Continuing Calibration Verification	X		Laboratory-determined	-	-	-	
Initial Calibration Blank	X		Laboratory-determined	-	-	-	
Continuing Calibration Blank	X		Laboratory-determined	-	-	-	
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			

Other instances of nonconformance to QC control limits noted on case narrative:

None.

Comments:

All samples were analyzed for total iron and zinc by EPA Method E200.7 and E200.8. Historical data for the site have been analyzed via EPA Method E200.8. To keep analytical results consistent with historical data, results analyzed by EPA method E200.7 were rejected.

The RPDs of Rad-228 and Combined Rad-226+228 were outside of control limits for the MW-17A and MWT-17A parent sample and field duplicate pair. Rad-226 and Combined Rad-226+228 required qualification in parent sample MW-17A as estimated with low bias (J-) and in field duplicate MWT-17A as estimated with high bias (J+).

Data Verification & Validation Report

Lansing Board of Water & Light – Erickson Power Station

Sampling Event (dates and purpose): Background Sampling

Data Package Number: 240-219708-1

Lab Report Date: 4/1/2025

Data Validator: Andrew Byks

Data Validation Completion Date: 5/12/2025

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:

Well ID	Planned for Sampling
MW-1	
MW-2	
MW-3	
MW-4	
MW-5	
MW-6	
MW-7	
MW-7B	
MW-7C	
MW-8	
MW-9	
MW-10	
MW-11	
MW-11B	
MW-12	
MW-12B	
MW-13	
MW-14	
MW-15	
MW-16A	
MW-16B	
MW-16C	
MW-16D	
MW-17A	X
MW-17B	X
MW-17C	X
MW-17D	X
MW-17E	X
MW-18A	X
MW-18B	X
MW-18C	X
MW-18D	X
MW-100A	
MW-100B	
MW-100C	
MW-100D	

Data Summary

Sample ID	Matrix	Lab ID	Date Collected	App III Metals	App IV Metals	Part 115 Metals	Anions	TDS TSS	Rad-226 Rad-228	Diss. Metals
MW-17A	GW	240-219708-1	2/27/2025	X	X	X	X	X	X	
MW-17B	GW	240-219708-2	2/27/2025	X	X	X	X	X	X	
MW-17C	GW	240-219708-3	2/27/2025	X	X	X	X	X	X	
MW-17D	GW	240-219708-4	2/27/2025	X	X	X	X	X	X	
MW-17E	GW	240-219708-5	2/27/2025	X	X	X	X	X	X	
MW-18A	GW	240-219708-6	2/27/2025	X	X	X	X	X	X	
MW-18B	GW	240-219708-7	2/27/2025	X	X	X	X	X	X	
MW-18C	GW	240-219708-8	2/27/2025	X	X	X	X	X	X	
MW-18D	GW	240-219708-9	2/27/2025	X	X	X	X	X	X	
MWT-17A	GW	240-219708-10	2/27/2025	X	X	X	X	X	X	
Field Blank	W	240-219708-11	2/27/2025	X	X	X	X	X	X	

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

Any planned sampling or analysis NOT completed? If yes, explain: _____

Data Verification & Validation Checklist

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Field Data							
Sample Collection Field Forms	X		Purging performed as required in the Groundwater Monitoring Plan	X			
Field Calibration Records	X		Field instruments calibrated daily according to manufacturer specifications	X			
Chain of Custody	X		Accurately reflect samples, collection dates/times, analyses, bottles, etc.	X			
Field decontamination documentation	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		N/A	-	-	-	
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			
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			

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Method	X		Method as requested	X			
Reporting Limits	X		RLs as requested		X		RL for hardness not met
			MDLs<RLs	X			
			MDLs<MCLs	X			
			MDLs<GPS	X			
QC Validation							
Evaluate Accuracy							
Matrix Spike (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Laboratory Control Sample (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Evaluate Precision							
Matrix Spike Duplicate (RPD)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Field Duplicate (RPD)	X		RPD ≤ 20%		X		Field duplicate RPDs for Fluoride, Rad-228, combined Rad not met, see below
Evaluate Representativeness							
Equipment Blanks (if applicable)	X		Non-detect (<RL)	X			
QC Verification							
Verify Instrument Calibration & Analytical Process							
Initial Calibration Verification	X		Laboratory-determined	-	-	-	
Continuing Calibration Verification	X		Laboratory-determined	-	-	-	
Initial Calibration Blank	X		Laboratory-determined	-	-	-	
Continuing Calibration Blank	X		Laboratory-determined	-	-	-	
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			

Other instances of nonconformance to QC control limits noted on case narrative:

None.

Comments:

The RPDs of Fluoride, Rad-228, and Combined Rad-226+228 were outside of control limits for the MW-17A and MWT-17A parent sample and field duplicate pair. Fluoride, Rad-226, and Combined Rad-226+228 required qualification in parent sample MW-17A as estimated with high bias (J+) and in field duplicate MWT-17A as estimated with low bias (J-).

Data Verification & Validation Report

Lansing Board of Water & Light – Erickson Power Station

Sampling Event (dates and purpose): Background Sampling

Data Package Number: 240-218633-1, 240-18718-1

Lab Report Date: 3/11/2025

Data Validator: Andrew Byks

Data Validation Completion Date: 5/13/2025

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:

Well ID	Planned for Sampling
MW-1	X
MW-2	X
MW-3	X
MW-4	X
MW-5	X
MW-6	X
MW-7	X
MW-7B	X
MW-7C	X
MW-8	X
MW-9	X
MW-10	X
MW-11	X
MW-11B	X
MW-12	X
MW-12B	X
MW-13	X
MW-14	X
MW-15	X
MW-16A	X
MW-16B	X
MW-16C	X
MW-16D	X
MW-17A	
MW-17B	
MW-17C	
MW-17D	
MW-17E	
MW-18A	
MW-18B	
MW-18C	
MW-18D	
MW-100A	X
MW-100B	X
MW-100C	X
MW-100D	X

Data Summary

Sample ID	Matrix	Lab ID	Date Collected	App III Metals	App IV Metals	Part 115 Metals	Anions	TDS TSS	Rad-226 Rad-228	Diss. Metals
MW-1	GW	240-218633-1	2/4/2025	X	X	X	X	X	X	X
MW-2	GW	240-218633-2	2/4/2025	X	X	X	X	X	X	
MW-4	GW	240-218633-3	2/4/2025	X	X	X	X	X	X	
MW-5	GW	240-218633-4	2/4/2025	X	X	X	X	X	X	X
MW-6	GW	240-218633-5	2/4/2025	X	X	X	X	X	X	
MW-11	GW	240-218633-6	2/4/2025	X	X	X	X	X	X	
MW-11B	GW	240-218633-7	2/4/2025	X	X	X	X	X	X	
MW-12	GW	240-218633-8	2/4/2025	X	X	X	X	X	X	X
MW-12B	GW	240-218633-9	2/4/2025	X	X	X	X	X	X	
MW-14	GW	240-218633-10	2/4/2025	X	X	X	X	X	X	
MW-15	GW	240-218633-11	2/4/2025	X	X	X	X	X	X	
MWT-6	GW	240-218633-12	2/4/2025	X	X	X	X	X	X	
Field Blank	W	240-218633-13	2/4/2025	X	X	X	X	X	X	
MW-7	GW	240-218633-14	2/5/2025	X	X	X	X	X	X	
MW-7B	GW	240-218633-15	2/5/2025	X	X	X	X	X	X	
MW-7C	GW	240-218633-16	2/5/2025	X	X	X	X	X	X	
MW-8	GW	240-218633-17	2/5/2025	X	X	X	X	X	X	
MW-9	GW	240-218633-18	2/5/2025	X	X	X	X	X	X	
MW-10	GW	240-218633-19	2/5/2025	X	X	X	X	X	X	
Field Blank	W	240-218633-20	2/5/2025	X	X	X	X	X	X	
MW-100A	GW	240-218633-21	2/5/2025	X	X	X	X	X	X	
MW-100B	GW	240-218633-22	2/5/2025	X	X	X	X	X	X	
MW-100C	GW	240-218633-23	2/5/2025	X	X	X	X	X	X	
MW-100D	GW	240-218633-24	2/5/2025	X	X	X	X	X	X	
MWT-100C	GW	240-218633-25	2/5/2025	X	X	X	X	X	X	
MW-3	GW	240-218718-26	2/6/2025	X	X	X	X	X	X	
MW-13	GW	240-218718-27	2/6/2025	X	X	X	X	X	X	
MWT-3	GW	240-218718-28	2/6/2025	X	X	X	X	X	X	
MW-16A	GW	240-218718-29	2/6/2025	X	X	X	X	X	X	
MW-16B	GW	240-218718-30	2/6/2025	X	X	X	X	X	X	
MW-16C	GW	240-218718-31	2/6/2025	X	X	X	X	X	X	
MW-16D	GW	240-218718-32	2/6/2025	X	X	X	X	X	X	
Field Blank	W	240-218718-33	2/6/2025	X	X	X	X	X	X	

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

Any planned sampling or analysis NOT completed? If yes, explain: _____

Data Verification & Validation Checklist

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Field Data							
Sample Collection Field Forms	X		Purging performed as required in the Groundwater Monitoring Plan	X			
Field Calibration Records	X		Field instruments calibrated daily according to manufacturer specifications	X			
Chain of Custody	X		Accurately reflect samples, collection dates/times, analyses, bottles, etc.	X			
Field decontamination documentation	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		N/A	-	-	-	
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			
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			

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Method	X		Method as requested	X			
Reporting Limits	X		RLs as requested		X		RL for hardness not met
			MDLs<RLs	X			
			MDLs<MCLs	X			
			MDLs<GPS	X			
QC Validation							
Evaluate Accuracy							
Matrix Spike (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Laboratory Control Sample (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Evaluate Precision							
Matrix Spike Duplicate (RPD)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Field Duplicate (RPD)	X		RPD ≤ 20%		X		See Comments
Evaluate Representativeness							
Equipment Blanks (if applicable)	X		Non-detect (<RL)	X			
QC Verification							
Verify Instrument Calibration & Analytical Process							
Initial Calibration Verification	X		Laboratory-determined	-	-	-	
Continuing Calibration Verification	X		Laboratory-determined	-	-	-	
Initial Calibration Blank	X		Laboratory-determined	-	-	-	
Continuing Calibration Blank	X		Laboratory-determined	-	-	-	
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			

Other instances of nonconformance to QC control limits noted on case narrative:

None.

Comments:

All samples were analyzed for total zinc by EPA Method E200.7 and E200.8. Historical data for the site have been analyzed via EPA Method E200.8. To keep analytical results consistent with historical data, results analyzed by EPA method E200.7 were rejected.

The RPDs of Rad-226, Rad-228, and Combined Rad-226+228 were outside of control limits for the MW-3 and MWT-3 parent sample and field duplicate pair. Rad-226 required qualification as estimated with high

bias (J+) in parent sample MW-3 and as estimated with low bias (J-) in field duplicate MWT-3. Rad-228 and Combined Rad-226+228 required qualification as estimated with low bias (J-) in parent sample MW-3 and as estimated with high bias (J+) in field duplicate MWT-3.

The RPDs of cadmium, zinc, Rad-226, Rad-228, and Combined Rad-226+228 were outside of control limits for the MW-6 and MWT-6 parent sample and field duplicate pair. Cadmium, zinc, and Rad-226 required qualification as estimated with high bias (J+) in parent sample MW-6 and as estimated with low bias (J-) in field duplicate MWT-6. Rad-228 and Combined Rad-226+228 required qualification as estimated with low bias (J-) in parent sample MW-6 and as estimated with high bias (J+) in field duplicate MWT-6.

Silver was not detected in parent sample MW-100C, but was detected in field duplicate MWT-100C. Silver required qualification as estimated but not detected (UJ) in parent sample MW-100C and as estimated with high bias (J+) in field duplicate MWT-100C.

Zinc was detected in parent sample MW-100C, but was not detected in field duplicate MWT-100C. Zinc required qualification as estimated with high bias (J+) in parent sample MW-100C and as estimated but not detected (UJ) in field duplicate MWT-100C.

The RPDs of Rad-228 and Combined Rad-226+228 were outside of control limits for the MW-100C and MWT-100C parent sample and field duplicate pair. Rad-228 and Combined Rad-226+228 required qualification as estimated with high bias (J+) in parent sample MW-100C and as estimated with low bias (J-) in field duplicate MWT-100C.

Data Verification & Validation Report

Lansing Board of Water & Light – Erickson Power Station

Sampling Event (dates and purpose): Background Sampling

Data Package Number: 240-223130-1

Lab Report Date: 5/27/2025

Data Validator: Andrew Byks

Data Validation Completion Date: 7/7/2025

General Overall Assessment:

☐ Data are usable without qualification.

☒ Data are usable with qualification (as noted below).

☐ Some or all data are unusable (as noted below).

Wells planned for sampling:

Well ID	Planned for Sampling
MW-1	
MW-2	
MW-3	
MW-4	
MW-5	
MW-6	
MW-7	
MW-7B	
MW-7C	
MW-8	
MW-9	
MW-10	
MW-11	
MW-11B	
MW-12	
MW-12B	
MW-13	
MW-14	
MW-15	
MW-16A	
MW-16B	
MW-16C	
MW-16D	
MW-17A	
MW-17B	
MW-17C	
MW-17D	
MW-17E	
MW-18A	X
MW-18B	X
MW-18C	X
MW-18D	X
MW-100A	
MW-100B	
MW-100C	
MW-100D	

Data Summary

Sample ID	Matrix	Lab ID	Date Collected	App III Metals	App IV Metals	Part 115 Metals	Anions	TDS TSS	Rad-226 Rad-228	Diss. Metals
MW-18A	GW	240-223130-1	4/24/2025	X	X	X	X	X	X	
MW-18B	GW	240-223130-2	4/24/2025	X	X	X	X	X	X	
MW-18C	GW	240-223130-3	4/24/2025	X	X	X	X	X	X	
MW-18D	GW	240-223130-4	4/24/2025	X	X	X	X	X	X	
MWT-18A	GW	240-223130-5	4/24/2025	X	X	X	X	X	X	
FB	GW	240-223130-6	4/24/2025	X	X	X	X	X	X	

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

Any planned sampling or analysis NOT completed? If yes, explain:

Data Verification & Validation Checklist

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Field Data							
Sample Collection Field Forms	X		Purging performed as required in the Groundwater Monitoring Plan	X			
Field Calibration Records	X		Field instruments calibrated daily according to manufacturer specifications	X			
Chain of Custody	X		Accurately reflect samples, collection dates/times, analyses, bottles, etc.	X			
Field decontamination documentation	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		N/A	-	-	-	
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			
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			

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Method	X		Method as requested	X			
Reporting Limits	X		RLs as requested		X		RL for hardness not met
			MDLs<RLs	X			
			MDLs<MCLs	X			
			MDLs<GPS	X			
QC Validation							
Evaluate Accuracy							
Matrix Spike (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Laboratory Control Sample (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Evaluate Precision							
Matrix Spike Duplicate (RPD)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Field Duplicate (RPD)	X		RPD ≤ 20%		X		See Comments
Evaluate Representativeness							
Equipment Blanks (if applicable)	X		Non-detect (<RL)	X			
QC Verification							
Verify Instrument Calibration & Analytical Process							
Initial Calibration Verification	X		Laboratory-determined	-	-	-	
Continuing Calibration Verification	X		Laboratory-determined	-	-	-	
Initial Calibration Blank	X		Laboratory-determined	-	-	-	
Continuing Calibration Blank	X		Laboratory-determined	-	-	-	
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			

Other instances of nonconformance to QC control limits noted on case narrative:

None.

Comments:

Lead and selenium were detected in parent sample MW-18A, but were not detected in field duplicate MWT-18A. Lead and selenium required qualification as estimated with high bias (J+) in parent sample MW-18A and as estimated but not detected (UJ) in field duplicate MWT-18A.

The RPDs of TSS, Rad-228, and Combined Rad-226+228 were outside of control limits for the MW-18A and MWT-18A parent sample and field duplicate pair. TSS required qualification as estimated with low

bias (J-) in parent sample MW-18A and as estimated with high bias (J+) in field duplicate MWT-18. Rad-228 and Combined Rad-226+228 required qualification as estimated with high bias (J+) in parent sample MW-18A and as estimated with low bias (J-) in field duplicate MWT-18A.

Data Verification & Validation Report

Lansing Board of Water & Light – Erickson Power Station

Sampling Event (dates and purpose): Background Sampling

Data Package Number: 240-224360-1, 240-24360-2

Lab Report Date: 6/4/2025, 6/13/2024

Data Validator: Andrew Byks

Data Validation Completion Date: 7/7/2025

General Overall Assessment:

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

Wells planned for sampling:

Well ID	Planned for Sampling	Well ID	Planned for Sampling
MW-1		MW-17A	
MW-2		MW-17B	
MW-3		MW-17C	
MW-4		MW-17D	
MW-5		MW-17E	
MW-6		MW-18A	
MW-7		MW-18B	
MW-7B		MW-18C	
MW-7C		MW-18D	
MW-8		MW-19A	X
MW-9		MW-19B	X
MW-10		MW-19C	X
MW-11		MW-19D	X
MW-11B		MW-100A	
MW-12		MW-100B	
MW-12B		MW-100C	
MW-13		MW-100D	
MW-14			
MW-15			
MW-16A			
MW-16B			
MW-16C			
MW-16D			

Data Summary

Sample ID	Matrix	Lab ID	Date Collected	App III Metals	App IV Metals	Part 115 Metals	Anions	TDS TSS	Rad-226 Rad-228	Diss. Metals
MW-19A	GW	240-224360-1	5/12/2025	X	X	X	X	X	X	
MW-19B	GW	240-224360-2	5/12/2025	X	X	X	X	X	X	
MW-19C	GW	240-224360-3	5/12/2025	X	X	X	X	X	X	
MW-19D	GW	240-224360-4	5/12/2025	X	X	X	X	X	X	X
MWT-19A	GW	240-224360-5	5/12/2025	X	X	X	X	X	X	
FIELD BLANK	GW	240-224360-6	5/12/2025	X	X	X	X	X	X	X
EQUIPMENT BLANK	GW	240-224360-7	5/12/2025	X	X	X	X	X	X	X

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

Any planned sampling or analysis NOT completed? If yes, explain:

Data Verification & Validation Checklist

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Field Data							
Sample Collection Field Forms	X		Purging performed as required in the Groundwater Monitoring Plan	X			
Field Calibration Records	X		Field instruments calibrated daily according to manufacturer specifications	X			
Chain of Custody	X		Accurately reflect samples, collection dates/times, analyses, bottles, etc.	X			
Field decontamination documentation	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		N/A	-	-	-	
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			
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			

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Method	X		Method as requested	X			
Reporting Limits	X		RLs as requested		X		RL for hardness not met
			MDLs<RLs	X			
			MDLs<MCLs	X			
			MDLs<GPS	X			
QC Validation							
Evaluate Accuracy							
Matrix Spike (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Laboratory Control Sample (Recovery)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Evaluate Precision							
Matrix Spike Duplicate (RPD)	X		See “Minimum QC Procedures for Project Parameters” table	X			
Field Duplicate (RPD)	X		RPD ≤ 20%		X		See Comments
Evaluate Representativeness							
Equipment Blanks (if applicable)	X		Non-detect (<RL)	X			
QC Verification							
Verify Instrument Calibration & Analytical Process							
Initial Calibration Verification	X		Laboratory-determined	-	-	-	
Continuing Calibration Verification	X		Laboratory-determined	-	-	-	
Initial Calibration Blank	X		Laboratory-determined	-	-	-	
Continuing Calibration Blank	X		Laboratory-determined	-	-	-	
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			

Other instances of nonconformance to QC control limits noted on case narrative:

None.

Comments:

Cadmium was detected in parent sample MW-19A, but was not detected in field duplicate MWT-19A. Cadmium required qualification as estimated with high bias (J+) in parent sample MW-19A and as estimated but not detected (UJ) in field duplicate MWT-19A.

The RPDs of zinc, TSS, Rad-226, and Combined Rad-226+228 were outside of control limits for the MW-19A and MWT-19A parent sample and field duplicate pair. Zinc required qualification as estimated with

high bias (J+) in parent sample MW-19A and as estimated with low bias (J-) in field duplicate MWT-19A. TSS, Rad-226, and Rad-226+228 required qualification as estimated with low bias (J-) in parent sample MW-19A and as estimated with high bias (J+) in field duplicate MWT-19A.

Appendix D

Statistical Output Reports

Table 1: Summary Statistics, Non-Detects Included

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_105	MW-2	Appendix III	Boron	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	4.71	4.76	3.30	6.17	0.977	0.208	-0.0823
11_2_107	MW-2	Appendix III	Calcium	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Normal	Normal	236	251	190	272	31.9	0.135	-0.334
11_2_108	MW-2	Appendix III	Chloride	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	79.7	81.7	59.0	94.0	9.28	0.116	-0.730
11_2_112	MW-2	Appendix III	Fluoride	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.948	1.00	0.0620	1.00	0.221	0.233	-4.24
11_2_120	MW-2	Appendix III	pH, Field	su	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	6.77	6.76	6.54	6.90	0.0879	0.0130	-0.773
11_2_124	MW-2	Appendix III	Sulfate	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	418	398	220	580	124	0.296	-0.186
11_2_126	MW-2	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	1191	1180	910	1430	174	0.146	-0.182
11_3_101	MW-2	Appendix IV	Antimony	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00475	0.00500	0.000570	0.00500	0.00104	0.220	-4.24
11_3_102	MW-2	Appendix IV	Arsenic	mg/l	18	15	83%	2020-04-28 to 2025-02-04		Nonparametric	0.00210	0.00200	0.000750	0.00400	0.000613	0.292	1.48
11_3_103	MW-2	Appendix IV	Barium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0402	0.0405	0.0340	0.0480	0.00386	0.0959	0.0796
11_3_104	MW-2	Appendix IV	Beryllium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.000959	0.00100	0.000270	0.00100	0.000172	0.179	-4.24
11_3_106	MW-2	Appendix IV	Cadmium	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.000478	0.000500	0.0000990	0.000500	0.0000945	0.198	-4.24
11_3_109	MW-2	Appendix IV	Chromium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00479	0.00500	0.00120	0.00500	0.000896	0.187	-4.24
11_3_110	MW-2	Appendix IV	Cobalt	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.00492	0.00500	0.00360	0.00500	0.000330	0.0670	-4.24
11_3_113	MW-2	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.948	1.00	0.0620	1.00	0.221	0.233	-4.24
11_3_115	MW-2	Appendix IV	Lead	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00286	0.00300	0.000450	0.00300	0.000601	0.210	-4.24
11_3_116	MW-2	Appendix IV	Lithium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0543	0.0550	0.0380	0.0675	0.00895	0.165	-0.248
11_3_117	MW-2	Appendix IV	Mercury	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.000196	0.000200	0.000130	0.000200	0.0000165	0.0841	-4.24
11_3_118	MW-2	Appendix IV	Molybdenum	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0110	0.0110	0.00700	0.0150	0.00199	0.181	0.0398
11_3_121	MW-2	Appendix IV	Radium-226+228	pci/l	18	1	6%	2020-04-28 to 2025-02-04	Normal	Normal	0.928	0.750	0	3.25	0.825	0.890	1.48
11_3_122	MW-2	Appendix IV	Selenium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00477	0.00500	0.000890	0.00500	0.000969	0.203	-4.24
11_3_125	MW-2	Appendix IV	Thallium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00192	0.00200	0.000510	0.00200	0.000351	0.183	-4.24
11_5_111	MW-2	Part 115	Copper	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00482	0.00500	0.00170	0.00500	0.000778	0.161	-4.24
11_5_114	MW-2	Part 115	Iron	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal	Gamma	0.698	0.585	0.220	1.93	0.392	0.562	2.08
11_5_119	MW-2	Part 115	Nickel	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Lognormal; Normal	Normal	0.0217	0.0230	0.0120	0.0275	0.00490	0.226	-0.496
11_5_123	MW-2	Part 115	Silver	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.000475	0.000500	0.0000530	0.000500	0.000105	0.222	-4.24
11_5_128	MW-2	Part 115	Vanadium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00477	0.00500	0.000820	0.00500	0.000985	0.207	-4.24
11_5_129	MW-2	Part 115	Zinc	mg/l	18	14	78%	2020-04-28 to 2025-02-04		Nonparametric	0.00705	0.00500	0.00190	0.0410	0.00853	1.21	4.14
12_2_105	MW-3	Appendix III	Boron	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	5.67	5.63	5.34	6.16	0.243	0.0430	0.880
12_2_107	MW-3	Appendix III	Calcium	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	245	248	223	257	11.7	0.0478	-0.944
12_2_108	MW-3	Appendix III	Chloride	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	97.2	99.0	89.0	103	4.86	0.0500	-0.473
12_2_112	MW-3	Appendix III	Fluoride	mg/l	9	8	89%	2021-05-04 to 2025-02-06		Nonparametric	0.910	1.00	0.190	1.00	0.270	0.297	-3.00
12_2_120	MW-3	Appendix III	pH, Field	su	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	7.25	7.24	7.15	7.38	0.0729	0.0101	0.467
12_2_124	MW-3	Appendix III	Sulfate	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	703	698	675	732	21.2	0.0302	0.325
12_2_126	MW-3	Appendix III	Total Dissolved Solids	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Nonparametric	Nonparametric	1429	1440	1200	1500	89.8	0.0628	-2.50
12_3_101	MW-3	Appendix IV	Antimony	mg/l	9	9	100%	2021-05-04 to 2025-02-06		Nonparametric	0.00451	0.00500	0.000570	0.00500	0.00148	0.328	-3.00
12_3_102	MW-3	Appendix IV	Arsenic	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Nonparametric	Nonparametric	0.00340	0.00300	0.00260	0.00600	0.00104	0.307	2.39
12_3_103	MW-3	Appendix IV	Barium	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0188	0.0190	0.0160	0.0210	0.00179	0.0952	-0.250
12_3_104	MW-3	Appendix IV	Beryllium	mg/l	9	9	100%	2021-05-04 to 2025-02-06		Nonparametric	0.000919	0.00100	0.000270	0.00100	0.000243	0.265	-3.00
12_3_106	MW-3	Appendix IV	Cadmium	mg/l	9	9	100%	2021-05-04 to 2025-02-06		Nonparametric	0.000453	0.000500	0.0000770	0.000500	0.000141	0.311	-3.00
12_3_109	MW-3	Appendix IV	Chromium	mg/l	9	9	100%	2021-05-04 to 2025-02-06		Nonparametric	0.00458	0.00500	0.00120	0.00500	0.00127	0.277	-3.00
12_3_110	MW-3	Appendix IV	Cobalt	mg/l	9	8	89%	2021-05-04 to 2025-02-06		Nonparametric	0.00450	0.00500	0.000490	0.00500	0.00150	0.334	-3.00

(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
12_3_113	MW-3	Appendix IV	Fluoride (App IV)	mg/l	9	8	89%	2021-05-04 to 2025-02-06		Nonparametric	0.910	1.00	0.190	1.00	0.270	0.297	-3.00
12_3_115	MW-3	Appendix IV	Lead	mg/l	9	9	100%	2021-05-04 to 2025-02-06		Nonparametric	0.00272	0.00300	0.000450	0.00300	0.000850	0.313	-3.00
12_3_116	MW-3	Appendix IV	Lithium	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0812	0.0800	0.0750	0.0910	0.00552	0.0679	0.558
12_3_117	MW-3	Appendix IV	Mercury	mg/l	9	9	100%	2021-05-04 to 2025-02-06		Nonparametric	0.000192	0.000200	0.000130	0.000200	0.0000233	0.121	-3.00
12_3_118	MW-3	Appendix IV	Molybdenum	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.163	0.162	0.150	0.182	0.0104	0.0634	0.636
12_3_121	MW-3	Appendix IV	Radium-226+228	pci/l	9	1	11%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	1.43	1.11	0.412	2.92	0.869	0.608	0.746
12_3_122	MW-3	Appendix IV	Selenium	mg/l	9	9	100%	2021-05-04 to 2025-02-06		Nonparametric	0.00454	0.00500	0.000890	0.00500	0.00137	0.302	-3.00
12_3_125	MW-3	Appendix IV	Thallium	mg/l	9	9	100%	2021-05-04 to 2025-02-06		Nonparametric	0.00183	0.00200	0.000510	0.00200	0.000497	0.271	-3.00
12_5_111	MW-3	Part 115	Copper	mg/l	9	9	100%	2021-05-04 to 2025-02-06		Nonparametric	0.00463	0.00500	0.00170	0.00500	0.00110	0.237	-3.00
12_5_114	MW-3	Part 115	Iron	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	1.83	1.84	1.52	2.05	0.194	0.106	-0.451
12_5_119	MW-3	Part 115	Nickel	mg/l	9	8	89%	2021-05-04 to 2025-02-06		Nonparametric	0.00469	0.00500	0.00220	0.00500	0.000933	0.199	-3.00
12_5_123	MW-3	Part 115	Silver	mg/l	9	9	100%	2021-05-04 to 2025-02-06		Nonparametric	0.000450	0.000500	0.0000530	0.000500	0.000149	0.331	-3.00
12_5_128	MW-3	Part 115	Vanadium	mg/l	9	9	100%	2021-05-04 to 2025-02-06		Nonparametric	0.00454	0.00500	0.000820	0.00500	0.00139	0.307	-3.00
12_5_129	MW-3	Part 115	Zinc	mg/l	9	8	89%	2021-05-04 to 2025-02-06		Nonparametric	0.00464	0.00500	0.00180	0.00500	0.00107	0.230	-3.00
13_2_105	MW-5	Appendix III	Boron	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Normal	Normal	4.0	4.48	0.370	5.38	1.25	0.313	-1.62
13_2_107	MW-5	Appendix III	Calcium	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	224	229	70.1	346	69.1	0.309	-0.339
13_2_108	MW-5	Appendix III	Chloride	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Nonparametric	Nonparametric	62.9	66.0	34.0	82.0	16.7	0.266	-0.633
13_2_112	MW-5	Appendix III	Fluoride	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.951	1.00	0.110	1.00	0.210	0.221	-4.24
13_2_120	MW-5	Appendix III	pH, Field	su	18	0	0%	2020-04-28 to 2025-02-04	Nonparametric	Nonparametric	7.21	7.27	6.40	7.40	0.232	0.0322	-2.84
13_2_124	MW-5	Appendix III	Sulfate	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	606	591	186	1125	272	0.449	0.202
13_2_126	MW-5	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	1253	1230	592	1990	416	0.332	0.0503
13_3_101	MW-5	Appendix IV	Antimony	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00475	0.00500	0.000570	0.00500	0.00104	0.220	-4.24
13_3_102	MW-5	Appendix IV	Arsenic	mg/l	18	12	67%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Nonparametric	0.00254	0.00200	0.000750	0.00700	0.00144	0.567	2.19
13_3_103	MW-5	Appendix IV	Barium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0454	0.0435	0.0330	0.0640	0.00785	0.173	0.881
13_3_104	MW-5	Appendix IV	Beryllium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.000959	0.00100	0.000270	0.00100	0.000172	0.179	-4.24
13_3_106	MW-5	Appendix IV	Cadmium	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.000477	0.000500	0.0000920	0.000500	0.0000962	0.201	-4.24
13_3_109	MW-5	Appendix IV	Chromium	mg/l	18	15	83%	2020-04-28 to 2025-02-04		Nonparametric	0.00519	0.00500	0.00140	0.0100	0.00156	0.300	1.10
13_3_110	MW-5	Appendix IV	Cobalt	mg/l	18	16	89%	2020-04-28 to 2025-02-04		Nonparametric	0.00481	0.00500	0.000620	0.00600	0.00107	0.223	-3.86
13_3_113	MW-5	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.951	1.00	0.110	1.00	0.210	0.221	-4.24
13_3_115	MW-5	Appendix IV	Lead	mg/l	18	14	78%	2020-04-28 to 2025-02-04		Nonparametric	0.00359	0.00300	0.000690	0.0140	0.00270	0.751	3.70
13_3_116	MW-5	Appendix IV	Lithium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0686	0.0735	0.0160	0.0910	0.0178	0.260	-1.54
13_3_117	MW-5	Appendix IV	Mercury	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.000196	0.000200	0.000130	0.000200	0.0000165	0.0841	-4.24
13_3_118	MW-5	Appendix IV	Molybdenum	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Normal	Normal	0.0554	0.0530	0.0100	0.0960	0.0201	0.363	-0.0733
13_3_121	MW-5	Appendix IV	Radium-226+228	pci/l	18	1	6%	2020-04-28 to 2025-02-04	Gamma; Lognormal	Gamma	1.62	1.43	0.524	4.22	1.06	0.652	1.51
13_3_122	MW-5	Appendix IV	Selenium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00477	0.00500	0.000890	0.00500	0.000969	0.203	-4.24
13_3_125	MW-5	Appendix IV	Thallium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00192	0.00200	0.000510	0.00200	0.000351	0.183	-4.24
13_5_111	MW-5	Part 115	Copper	mg/l	18	13	72%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Nonparametric	0.00737	0.00500	0.00260	0.0260	0.00591	0.802	2.50
13_5_114	MW-5	Part 115	Iron	mg/l	18	1	6%	2020-04-28 to 2025-02-04	Gamma; Lognormal	Gamma	1.43	0.825	0.0200	8.00	1.98	1.38	2.62
13_5_119	MW-5	Part 115	Nickel	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0103	0.0100	0.00470	0.0190	0.00413	0.399	0.465
13_5_123	MW-5	Part 115	Silver	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.000477	0.000500	0.0000880	0.000500	0.0000971	0.204	-4.24
13_5_128	MW-5	Part 115	Vanadium	mg/l	18	14	78%	2020-04-28 to 2025-02-04		Nonparametric	0.00542	0.00500	0.00150	0.0120	0.00209	0.386	1.96
13_5_129	MW-5	Part 115	Zinc	mg/l	18	4	22%	2020-04-28 to 2025-02-04	Lognormal	Lognormal	0.0176	0.00750	0.00370	0.0980	0.0234	1.33	2.74

(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
14_2_105	MW-6	Appendix III	Boron	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.781	0.760	0.490	1.04	0.172	0.220	0.0177
14_2_107	MW-6	Appendix III	Calcium	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	170	169	142	200	19.4	0.114	0.0385
14_2_108	MW-6	Appendix III	Chloride	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	34.1	35.0	24.0	49.0	7.32	0.214	0.271
14_2_112	MW-6	Appendix III	Fluoride	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.958	1.00	0.240	1.00	0.179	0.187	-4.24
14_2_120	MW-6	Appendix III	pH, Field	su	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	6.74	6.76	6.35	7.00	0.141	0.0210	-1.04
14_2_124	MW-6	Appendix III	Sulfate	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	179	180	118	252	46.6	0.260	0.289
14_2_126	MW-6	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	755	738	598	900	93.1	0.123	0.0138
14_3_101	MW-6	Appendix IV	Antimony	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00475	0.00500	0.000570	0.00500	0.00104	0.220	-4.24
14_3_102	MW-6	Appendix IV	Arsenic	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.00199	0.00200	0.000750	0.00300	0.000388	0.195	-0.959
14_3_103	MW-6	Appendix IV	Barium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0486	0.0495	0.0380	0.0620	0.00608	0.125	0.302
14_3_104	MW-6	Appendix IV	Beryllium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.000959	0.00100	0.000270	0.00100	0.000172	0.179	-4.24
14_3_106	MW-6	Appendix IV	Cadmium	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.000481	0.000500	0.000150	0.000500	0.0000825	0.172	-4.24
14_3_109	MW-6	Appendix IV	Chromium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00479	0.00500	0.00120	0.00500	0.000896	0.187	-4.24
14_3_110	MW-6	Appendix IV	Cobalt	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.00475	0.00500	0.000530	0.00500	0.00105	0.222	-4.24
14_3_113	MW-6	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.958	1.00	0.240	1.00	0.179	0.187	-4.24
14_3_115	MW-6	Appendix IV	Lead	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00286	0.00300	0.000450	0.00300	0.000601	0.210	-4.24
14_3_116	MW-6	Appendix IV	Lithium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0472	0.0475	0.0320	0.0670	0.00863	0.183	0.366
14_3_117	MW-6	Appendix IV	Mercury	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.000196	0.000200	0.000130	0.000200	0.0000165	0.0841	-4.24
14_3_118	MW-6	Appendix IV	Molybdenum	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0249	0.0255	0.0120	0.0360	0.00596	0.239	-0.399
14_3_121	MW-6	Appendix IV	Radium-226+228	pci/l	18	1	6%	2020-04-28 to 2025-02-04	Normal	Normal	1.18	0.812	0	4.29	1.02	0.863	1.83
14_3_122	MW-6	Appendix IV	Selenium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00477	0.00500	0.000890	0.00500	0.000969	0.203	-4.24
14_3_125	MW-6	Appendix IV	Thallium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00192	0.00200	0.000510	0.00200	0.000351	0.183	-4.24
14_5_111	MW-6	Part 115	Copper	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00482	0.00500	0.00170	0.00500	0.000778	0.161	-4.24
14_5_114	MW-6	Part 115	Iron	mg/l	18	9	50%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Nonparametric	0.0396	0.0200	0.0130	0.200	0.0441	1.11	3.17
14_5_119	MW-6	Part 115	Nickel	mg/l	18	5	28%	2020-04-28 to 2025-02-04	Nonparametric	Nonparametric	0.00604	0.00600	0.00330	0.00800	0.00122	0.203	-0.422
14_5_123	MW-6	Part 115	Silver	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.000475	0.000500	0.0000530	0.000500	0.000105	0.222	-4.24
14_5_128	MW-6	Part 115	Vanadium	mg/l	18	18	100%	2020-04-28 to 2025-02-04		Nonparametric	0.00477	0.00500	0.000820	0.00500	0.000985	0.207	-4.24
14_5_129	MW-6	Part 115	Zinc	mg/l	18	16	89%	2020-04-28 to 2025-02-04		Nonparametric	0.00644	0.00500	0.00200	0.0340	0.00691	1.07	4.16
15_2_105	MW-7	Appendix III	Boron	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.87	1.88	1.08	2.75	0.408	0.218	0.0536
15_2_107	MW-7	Appendix III	Calcium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	118	111	97.2	165	18.8	0.160	1.60
15_2_108	MW-7	Appendix III	Chloride	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	79.0	76.5	72.2	98.0	7.17	0.0907	1.55
15_2_112	MW-7	Appendix III	Fluoride	mg/l	14	11	79%	2021-06-15 to 2025-02-05		Nonparametric	0.858	1.00	0.300	1.00	0.283	0.330	-1.58
15_2_120	MW-7	Appendix III	pH, Field	su	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	7.47	7.43	7.09	8.18	0.243	0.0326	1.84
15_2_124	MW-7	Appendix III	Sulfate	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	201	190	171	270	30.4	0.151	1.47
15_2_126	MW-7	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	626	601	548	864	84.4	0.135	2.18
15_3_101	MW-7	Appendix IV	Antimony	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00468	0.00500	0.000570	0.00500	0.00118	0.253	-3.74
15_3_102	MW-7	Appendix IV	Arsenic	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	0.00534	0.00600	0.00270	0.00700	0.00113	0.212	-1.02
15_3_103	MW-7	Appendix IV	Barium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0523	0.0530	0.0360	0.0620	0.00641	0.123	-1.03
15_3_104	MW-7	Appendix IV	Beryllium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000948	0.00100	0.000270	0.00100	0.000195	0.206	-3.74
15_3_106	MW-7	Appendix IV	Cadmium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000470	0.000500	0.0000770	0.000500	0.000113	0.241	-3.74
15_3_109	MW-7	Appendix IV	Chromium	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00487	0.00500	0.00120	0.00700	0.00118	0.243	-2.16
15_3_110	MW-7	Appendix IV	Cobalt	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00466	0.00500	0.000260	0.00500	0.00127	0.272	-3.74

(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
15_3_113	MW-7	Appendix IV	Fluoride (App IV)	mg/l	14	11	79%	2021-06-15 to 2025-02-05		Nonparametric	0.858	1.00	0.300	1.00	0.283	0.330	-1.58
15_3_115	MW-7	Appendix IV	Lead	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00282	0.00300	0.000450	0.00300	0.000682	0.242	-3.74
15_3_116	MW-7	Appendix IV	Lithium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0890	0.0910	0.0630	0.112	0.0133	0.149	-0.324
15_3_117	MW-7	Appendix IV	Mercury	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.000195	0.000200	0.000130	0.000200	0.0000187	0.0959	-3.74
15_3_118	MW-7	Appendix IV	Molybdenum	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	0.233	0.260	0.146	0.296	0.0579	0.249	-0.342
15_3_121	MW-7	Appendix IV	Radium-226+228	pci/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	2.18	1.83	0.514	5.44	1.49	0.683	1.12
15_3_122	MW-7	Appendix IV	Selenium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00471	0.00500	0.000890	0.00500	0.00110	0.233	-3.74
15_3_125	MW-7	Appendix IV	Thallium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00189	0.00200	0.000510	0.00200	0.000398	0.210	-3.74
15_5_111	MW-7	Part 115	Copper	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00476	0.00500	0.00170	0.00500	0.000882	0.185	-3.74
15_5_114	MW-7	Part 115	Iron	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal	Gamma	1.43	1.35	0.900	2.81	0.471	0.329	2.08
15_5_119	MW-7	Part 115	Nickel	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00475	0.00500	0.00150	0.00500	0.000935	0.197	-3.74
15_5_123	MW-7	Part 115	Silver	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000468	0.000500	0.0000530	0.000500	0.000119	0.255	-3.74
15_5_128	MW-7	Part 115	Vanadium	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00477	0.00500	0.000820	0.00600	0.00117	0.245	-3.36
15_5_129	MW-7	Part 115	Zinc	mg/l	14	11	79%	2021-06-15 to 2025-02-05		Nonparametric	0.00564	0.00500	0.000930	0.0140	0.00277	0.492	2.04
16_2_105	MW-7C	Appendix III	Boron	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	6.57	6.54	6.20	7.24	0.259	0.0394	1.32
16_2_107	MW-7C	Appendix III	Calcium	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Nonparametric	Nonparametric	239	241	183	277	21.2	0.0889	-1.23
16_2_108	MW-7C	Appendix III	Chloride	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	93.4	93.0	83.0	105	5.31	0.0569	0.532
16_2_112	MW-7C	Appendix III	Fluoride	mg/l	13	12	92%	2022-03-10 to 2025-02-05		Nonparametric	0.942	1.00	0.240	1.00	0.211	0.224	-3.61
16_2_120	MW-7C	Appendix III	pH, Field	su	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.35	7.32	7.23	7.51	0.0947	0.0129	0.473
16_2_124	MW-7C	Appendix III	Sulfate	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	684	675	640	751	34.5	0.0505	0.757
16_2_126	MW-7C	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1364	1360	1200	1500	70.9	0.0520	-0.347
16_3_101	MW-7C	Appendix IV	Antimony	mg/l	13	13	100%	2022-03-10 to 2025-02-05		Nonparametric	0.00466	0.00500	0.000570	0.00500	0.00123	0.264	-3.61
16_3_102	MW-7C	Appendix IV	Arsenic	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Nonparametric	Nonparametric	0.00648	0.00600	0.00500	0.0100	0.00124	0.191	1.98
16_3_103	MW-7C	Appendix IV	Barium	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0426	0.0420	0.0390	0.0470	0.00250	0.0587	0.216
16_3_104	MW-7C	Appendix IV	Beryllium	mg/l	13	13	100%	2022-03-10 to 2025-02-05		Nonparametric	0.000944	0.00100	0.000270	0.00100	0.000202	0.215	-3.61
16_3_106	MW-7C	Appendix IV	Cadmium	mg/l	13	10	77%	2022-03-10 to 2025-02-05		Nonparametric	0.000537	0.000500	0.0000770	0.000900	0.000194	0.361	-0.365
16_3_109	MW-7C	Appendix IV	Chromium	mg/l	13	13	100%	2022-03-10 to 2025-02-05		Nonparametric	0.00471	0.00500	0.00120	0.00500	0.00105	0.224	-3.61
16_3_110	MW-7C	Appendix IV	Cobalt	mg/l	13	13	100%	2022-03-10 to 2025-02-05		Nonparametric	0.00462	0.00500	0.0000860	0.00500	0.00136	0.295	-3.61
16_3_113	MW-7C	Appendix IV	Fluoride (App IV)	mg/l	13	12	92%	2022-03-10 to 2025-02-05		Nonparametric	0.942	1.00	0.240	1.00	0.211	0.224	-3.61
16_3_115	MW-7C	Appendix IV	Lead	mg/l	13	13	100%	2022-03-10 to 2025-02-05		Nonparametric	0.00280	0.00300	0.000450	0.00300	0.000707	0.252	-3.61
16_3_116	MW-7C	Appendix IV	Lithium	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.126	0.126	0.110	0.138	0.00737	0.0583	-0.522
16_3_117	MW-7C	Appendix IV	Mercury	mg/l	13	13	100%	2022-03-10 to 2025-02-05		Nonparametric	0.000195	0.000200	0.000130	0.000200	0.0000194	0.0998	-3.61
16_3_118	MW-7C	Appendix IV	Molybdenum	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.395	0.397	0.350	0.422	0.0192	0.0487	-0.855
16_3_121	MW-7C	Appendix IV	Radium-226+228	pci/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	2.04	1.76	0.773	3.66	1.09	0.535	0.466
16_3_122	MW-7C	Appendix IV	Selenium	mg/l	13	13	100%	2022-03-10 to 2025-02-05		Nonparametric	0.00468	0.00500	0.000890	0.00500	0.00114	0.243	-3.61
16_3_125	MW-7C	Appendix IV	Thallium	mg/l	13	13	100%	2022-03-10 to 2025-02-05		Nonparametric	0.00189	0.00200	0.000510	0.00200	0.000413	0.219	-3.61
16_5_111	MW-7C	Part 115	Copper	mg/l	13	13	100%	2022-03-10 to 2025-02-05		Nonparametric	0.00475	0.00500	0.00170	0.00500	0.000915	0.193	-3.61
16_5_114	MW-7C	Part 115	Iron	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	4.05	4.11	3.67	4.41	0.240	0.0593	-0.0896
16_5_119	MW-7C	Part 115	Nickel	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Nonparametric	Nonparametric	0.00753	0.00700	0.00590	0.0100	0.000981	0.130	1.08
16_5_123	MW-7C	Part 115	Silver	mg/l	13	13	100%	2022-03-10 to 2025-02-05		Nonparametric	0.000466	0.000500	0.0000530	0.000500	0.000124	0.266	-3.61
16_5_128	MW-7C	Part 115	Vanadium	mg/l	13	13	100%	2022-03-10 to 2025-02-05		Nonparametric	0.00468	0.00500	0.000820	0.00500	0.00116	0.248	-3.61
16_5_129	MW-7C	Part 115	Zinc	mg/l	13	11	85%	2022-03-10 to 2025-02-05		Nonparametric	0.00478	0.00500	0.00120	0.00600	0.00111	0.232	-3.16

(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
17_2_105	MW-8	Appendix III	Boron	mg/l	14	1	7%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0881	0.0800	0.0400	0.210	0.0448	0.508	1.62
17_2_107	MW-8	Appendix III	Calcium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	94.0	94	86.5	104	5.36	0.0570	0.130
17_2_108	MW-8	Appendix III	Chloride	mg/l	14	2	14%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	21.5	13.0	4.45	66.0	19.9	0.925	1.41
17_2_112	MW-8	Appendix III	Fluoride	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.865	1.00	0.0540	1.00	0.343	0.396	-2.29
17_2_120	MW-8	Appendix III	pH, Field	su	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	7.16	7.13	6.99	7.78	0.200	0.0279	2.51
17_2_124	MW-8	Appendix III	Sulfate	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	25	23.2	11.0	52.0	13	0.519	0.993
17_2_126	MW-8	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	391	383	360	460	28.3	0.0724	1.30
17_3_101	MW-8	Appendix IV	Antimony	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00468	0.00500	0.000570	0.00500	0.00118	0.253	-3.74
17_3_102	MW-8	Appendix IV	Arsenic	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00191	0.00200	0.000750	0.00200	0.000334	0.175	-3.74
17_3_103	MW-8	Appendix IV	Barium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0219	0.0210	0.0170	0.0280	0.00308	0.141	0.541
17_3_104	MW-8	Appendix IV	Beryllium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000948	0.00100	0.000270	0.00100	0.000195	0.206	-3.74
17_3_106	MW-8	Appendix IV	Cadmium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000470	0.000500	0.0000770	0.000500	0.000113	0.241	-3.74
17_3_109	MW-8	Appendix IV	Chromium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00473	0.00500	0.00120	0.00500	0.00102	0.215	-3.74
17_3_110	MW-8	Appendix IV	Cobalt	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00465	0.00500	0.0000860	0.00500	0.00131	0.282	-3.74
17_3_113	MW-8	Appendix IV	Fluoride (App IV)	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.865	1.00	0.0540	1.00	0.343	0.396	-2.29
17_3_115	MW-8	Appendix IV	Lead	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00282	0.00300	0.000450	0.00300	0.000682	0.242	-3.74
17_3_116	MW-8	Appendix IV	Lithium	mg/l	14	6	43%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.00707	0.00550	0.00500	0.0130	0.00264	0.374	1.02
17_3_117	MW-8	Appendix IV	Mercury	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000195	0.000200	0.000130	0.000200	0.0000187	0.0959	-3.74
17_3_118	MW-8	Appendix IV	Molybdenum	mg/l	14	11	79%	2021-06-15 to 2025-02-05		Nonparametric	0.00610	0.00500	0.00500	0.0130	0.00255	0.417	2.35
17_3_121	MW-8	Appendix IV	Radium-226+228	pci/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Gamma	1.97	1.68	0.118	6.21	1.76	0.895	1.27
17_3_122	MW-8	Appendix IV	Selenium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00471	0.00500	0.000890	0.00500	0.00110	0.233	-3.74
17_3_125	MW-8	Appendix IV	Thallium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00189	0.00200	0.000510	0.00200	0.000398	0.210	-3.74
17_5_111	MW-8	Part 115	Copper	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00512	0.00500	0.00170	0.0100	0.00166	0.323	1.50
17_5_114	MW-8	Part 115	Iron	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.0195	0.0200	0.0130	0.0200	0.00187	0.0959	-3.74
17_5_119	MW-8	Part 115	Nickel	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00475	0.00500	0.00150	0.00500	0.000935	0.197	-3.74
17_5_123	MW-8	Part 115	Silver	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000468	0.000500	0.0000530	0.000500	0.000119	0.255	-3.74
17_5_128	MW-8	Part 115	Vanadium	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00470	0.00500	0.000820	0.00500	0.00112	0.238	-3.74
17_5_129	MW-8	Part 115	Zinc	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00485	0.00500	0.000930	0.00700	0.00125	0.257	-2.32
18_2_105	MW-9	Appendix III	Boron	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.0412	0.0400	0.0400	0.0570	0.00454	0.110	3.74
18_2_107	MW-9	Appendix III	Calcium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal	Gamma	77.6	76.8	61.8	100	12.5	0.161	0.773
18_2_108	MW-9	Appendix III	Chloride	mg/l	14	10	71%	2021-06-15 to 2025-02-05		Nonparametric	4.81	5.00	1.11	6.10	1.12	0.232	-3.09
18_2_112	MW-9	Appendix III	Fluoride	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.861	1.00	0.0240	1.00	0.353	0.410	-2.29
18_2_120	MW-9	Appendix III	pH, Field	su	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.29	7.28	7.06	7.74	0.176	0.0242	1.18
18_2_124	MW-9	Appendix III	Sulfate	mg/l	14	8	57%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Nonparametric	6.79	5.00	3.58	16.0	3.77	0.555	1.72
18_2_126	MW-9	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	275	258	232	360	43.3	0.158	1.14
18_3_101	MW-9	Appendix IV	Antimony	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00468	0.00500	0.000570	0.00500	0.00118	0.253	-3.74
18_3_102	MW-9	Appendix IV	Arsenic	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00198	0.00200	0.000750	0.00300	0.000444	0.224	-0.839
18_3_103	MW-9	Appendix IV	Barium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0149	0.0145	0.0130	0.0200	0.00202	0.135	1.29
18_3_104	MW-9	Appendix IV	Beryllium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000948	0.00100	0.000270	0.00100	0.000195	0.206	-3.74
18_3_106	MW-9	Appendix IV	Cadmium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000470	0.000500	0.0000770	0.000500	0.000113	0.241	-3.74
18_3_109	MW-9	Appendix IV	Chromium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00473	0.00500	0.00120	0.00500	0.00102	0.215	-3.74
18_3_110	MW-9	Appendix IV	Cobalt	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00465	0.00500	0.0000860	0.00500	0.00131	0.282	-3.74

(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_3_113	MW-9	Appendix IV	Fluoride (App IV)	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.861	1.00	0.0240	1.00	0.353	0.410	-2.29
18_3_115	MW-9	Appendix IV	Lead	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00282	0.00300	0.000450	0.00300	0.000682	0.242	-3.74
18_3_116	MW-9	Appendix IV	Lithium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00524	0.00500	0.00340	0.0100	0.00143	0.274	3.08
18_3_117	MW-9	Appendix IV	Mercury	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000195	0.000200	0.000130	0.000200	0.0000187	0.0959	-3.74
18_3_118	MW-9	Appendix IV	Molybdenum	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00472	0.00500	0.00110	0.00500	0.00104	0.221	-3.74
18_3_121	MW-9	Appendix IV	Radium-226+228	pci/l	14	0	0%	2021-06-15 to 2025-02-05	Normal	Normal	1.10	1.05	0	2.37	0.833	0.755	0.254
18_3_122	MW-9	Appendix IV	Selenium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00471	0.00500	0.000890	0.00500	0.00110	0.233	-3.74
18_3_125	MW-9	Appendix IV	Thallium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00189	0.00200	0.000510	0.00200	0.000398	0.210	-3.74
18_5_111	MW-9	Part 115	Copper	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00476	0.00500	0.00170	0.00500	0.000882	0.185	-3.74
18_5_114	MW-9	Part 115	Iron	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.0195	0.0200	0.0130	0.0200	0.00187	0.0959	-3.74
18_5_119	MW-9	Part 115	Nickel	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00475	0.00500	0.00150	0.00500	0.000935	0.197	-3.74
18_5_123	MW-9	Part 115	Silver	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000468	0.000500	0.0000530	0.000500	0.000119	0.255	-3.74
18_5_128	MW-9	Part 115	Vanadium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00470	0.00500	0.000820	0.00500	0.00112	0.238	-3.74
18_5_129	MW-9	Part 115	Zinc	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.00501	0.00500	0.00120	0.00900	0.00153	0.305	0.196
19_2_105	MW-10	Appendix III	Boron	mg/l	14	1	7%	2021-06-15 to 2025-02-05	Lognormal	Lognormal	0.0526	0.0500	0.0400	0.0700	0.00809	0.154	0.396
19_2_107	MW-10	Appendix III	Calcium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	128	128	113	142	9.31	0.0728	-0.0480
19_2_108	MW-10	Appendix III	Chloride	mg/l	14	9	64%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Nonparametric	4.64	5.00	1.03	9.30	2.03	0.437	0.116
19_2_112	MW-10	Appendix III	Fluoride	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.865	1.00	0.0500	1.00	0.342	0.395	-2.30
19_2_120	MW-10	Appendix III	pH, Field	su	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	6.75	6.71	6.49	7.30	0.205	0.0304	1.33
19_2_124	MW-10	Appendix III	Sulfate	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	14.9	14.2	9.00	27.8	4.66	0.312	1.56
19_2_126	MW-10	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	430	434	360	494	40.5	0.0942	-0.193
19_3_101	MW-10	Appendix IV	Antimony	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00468	0.00500	0.000570	0.00500	0.00118	0.253	-3.74
19_3_102	MW-10	Appendix IV	Arsenic	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00191	0.00200	0.000750	0.00200	0.000334	0.175	-3.74
19_3_103	MW-10	Appendix IV	Barium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0394	0.0405	0.0300	0.0470	0.00460	0.117	-0.454
19_3_104	MW-10	Appendix IV	Beryllium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000948	0.00100	0.000270	0.00100	0.000195	0.206	-3.74
19_3_106	MW-10	Appendix IV	Cadmium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000470	0.000500	0.0000770	0.000500	0.000113	0.241	-3.74
19_3_109	MW-10	Appendix IV	Chromium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00473	0.00500	0.00120	0.00500	0.00102	0.215	-3.74
19_3_110	MW-10	Appendix IV	Cobalt	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00465	0.00500	0.0000860	0.00500	0.00131	0.282	-3.74
19_3_113	MW-10	Appendix IV	Fluoride (App IV)	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.865	1.00	0.0500	1.00	0.342	0.395	-2.30
19_3_115	MW-10	Appendix IV	Lead	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00282	0.00300	0.000450	0.00300	0.000682	0.242	-3.74
19_3_116	MW-10	Appendix IV	Lithium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00524	0.00500	0.00340	0.0100	0.00143	0.274	3.08
19_3_117	MW-10	Appendix IV	Mercury	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.000195	0.000200	0.000130	0.000200	0.0000187	0.0959	-3.74
19_3_118	MW-10	Appendix IV	Molybdenum	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00472	0.00500	0.00110	0.00500	0.00104	0.221	-3.74
19_3_121	MW-10	Appendix IV	Radium-226+228	pci/l	14	0	0%	2021-06-15 to 2025-02-05	Lognormal	Lognormal	1.28	0.686	0.262	3.30	1.06	0.832	0.902
19_3_122	MW-10	Appendix IV	Selenium	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00475	0.00500	0.00150	0.00500	0.000935	0.197	-3.74
19_3_125	MW-10	Appendix IV	Thallium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00189	0.00200	0.000510	0.00200	0.000398	0.210	-3.74
19_5_111	MW-10	Part 115	Copper	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00476	0.00500	0.00170	0.00500	0.000882	0.185	-3.74
19_5_114	MW-10	Part 115	Iron	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.0195	0.0200	0.0130	0.0200	0.00187	0.0959	-3.74
19_5_119	MW-10	Part 115	Nickel	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00475	0.00500	0.00150	0.00500	0.000935	0.197	-3.74
19_5_123	MW-10	Part 115	Silver	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.000468	0.000500	0.0000530	0.000500	0.000119	0.255	-3.74
19_5_128	MW-10	Part 115	Vanadium	mg/l	14	14	100%	2021-06-15 to 2025-02-05		Nonparametric	0.00470	0.00500	0.000820	0.00500	0.00112	0.238	-3.74
19_5_129	MW-10	Part 115	Zinc	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.00607	0.00500	0.000930	0.0200	0.00431	0.711	2.89

(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
20_2_105	MW-13	Appendix III	Boron	mg/l	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.172	0.170	0.140	0.220	0.0224	0.130	0.447
20_2_107	MW-13	Appendix III	Calcium	mg/l	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	121	124	94.1	158	23.3	0.193	0.334
20_2_108	MW-13	Appendix III	Chloride	mg/l	13	2	15%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	20.1	16.0	5.00	45.0	13.1	0.653	0.872
20_2_112	MW-13	Appendix III	Fluoride	mg/l	13	12	92%	2022-02-23 to 2025-02-06		Nonparametric	0.934	1.00	0.140	1.00	0.239	0.255	-3.61
20_2_120	MW-13	Appendix III	pH, Field	su	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	6.97	7.04	6.39	7.25	0.228	0.0328	-1.42
20_2_124	MW-13	Appendix III	Sulfate	mg/l	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal	Gamma	60.0	37.0	16.0	174	48.7	0.812	1.33
20_2_126	MW-13	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	455	430	336	642	99.5	0.219	0.904
20_3_101	MW-13	Appendix IV	Antimony	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.00466	0.00500	0.000570	0.00500	0.00123	0.264	-3.61
20_3_102	MW-13	Appendix IV	Arsenic	mg/l	13	9	69%	2022-02-23 to 2025-02-06		Nonparametric	0.00328	0.00200	0.00200	0.00800	0.00218	0.665	1.43
20_3_103	MW-13	Appendix IV	Barium	mg/l	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0300	0.0280	0.0200	0.0440	0.00648	0.216	0.745
20_3_104	MW-13	Appendix IV	Beryllium	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.000944	0.00100	0.000270	0.00100	0.000202	0.215	-3.61
20_3_106	MW-13	Appendix IV	Cadmium	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.000467	0.000500	0.0000770	0.000500	0.000117	0.251	-3.61
20_3_109	MW-13	Appendix IV	Chromium	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.00471	0.00500	0.00120	0.00500	0.00105	0.224	-3.61
20_3_110	MW-13	Appendix IV	Cobalt	mg/l	13	12	92%	2022-02-23 to 2025-02-06		Nonparametric	0.00469	0.00500	0.000910	0.00500	0.00113	0.242	-3.61
20_3_113	MW-13	Appendix IV	Fluoride (App IV)	mg/l	13	12	92%	2022-02-23 to 2025-02-06		Nonparametric	0.934	1.00	0.140	1.00	0.239	0.255	-3.61
20_3_115	MW-13	Appendix IV	Lead	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.00280	0.00300	0.000450	0.00300	0.000707	0.252	-3.61
20_3_116	MW-13	Appendix IV	Lithium	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.00488	0.00500	0.00340	0.00500	0.000444	0.0910	-3.61
20_3_117	MW-13	Appendix IV	Mercury	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.000195	0.000200	0.000130	0.000200	0.0000194	0.0998	-3.61
20_3_118	MW-13	Appendix IV	Molybdenum	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.00470	0.00500	0.00110	0.00500	0.00108	0.230	-3.61
20_3_121	MW-13	Appendix IV	Radium-226+228	pci/l	13	1	8%	2022-02-23 to 2025-02-06	Gamma; Lognormal	Gamma	1.00	0.683	0.0699	2.31	0.852	0.850	0.496
20_3_122	MW-13	Appendix IV	Selenium	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.00468	0.00500	0.000890	0.00500	0.00114	0.243	-3.61
20_3_125	MW-13	Appendix IV	Thallium	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.00189	0.00200	0.000510	0.00200	0.000413	0.219	-3.61
20_5_111	MW-13	Part 115	Copper	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.00475	0.00500	0.00170	0.00500	0.000915	0.193	-3.61
20_5_114	MW-13	Part 115	Iron	mg/l	13	1	8%	2022-02-23 to 2025-02-06	Lognormal	Nonparametric	0.282	0.0400	0.0200	1.20	0.446	1.58	1.48
20_5_119	MW-13	Part 115	Nickel	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.00473	0.00500	0.00150	0.00500	0.000971	0.205	-3.61
20_5_123	MW-13	Part 115	Silver	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.000466	0.000500	0.0000530	0.000500	0.000124	0.266	-3.61
20_5_128	MW-13	Part 115	Vanadium	mg/l	13	13	100%	2022-02-23 to 2025-02-06		Nonparametric	0.00468	0.00500	0.000820	0.00500	0.00116	0.248	-3.61
20_5_129	MW-13	Part 115	Zinc	mg/l	13	11	85%	2022-02-23 to 2025-02-06		Nonparametric	0.00525	0.00500	0.00330	0.0100	0.00150	0.286	2.89
21_2_105	MW-14	Appendix III	Boron	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	2.12	2.14	1.96	2.29	0.103	0.0487	-0.0872
21_2_107	MW-14	Appendix III	Calcium	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	151	147	141	173	9.88	0.0654	1.24
21_2_108	MW-14	Appendix III	Chloride	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	113	114	100	119	5.20	0.0462	-1.40
21_2_112	MW-14	Appendix III	Fluoride	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.923	1.00	0.150	1.00	0.256	0.278	-3.32
21_2_120	MW-14	Appendix III	pH, Field	su	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	7.02	7.04	6.92	7.13	0.0669	0.00953	0.159
21_2_124	MW-14	Appendix III	Sulfate	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Nonparametric	Nonparametric	82.6	17.0	5.90	748	221	2.67	3.31
21_2_126	MW-14	Appendix III	Total Dissolved Solids	mg/l	11	1	9%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	720	792	0.00500	866	241	0.335	-3.19
21_3_101	MW-14	Appendix IV	Antimony	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00460	0.00500	0.000570	0.00500	0.00134	0.291	-3.32
21_3_102	MW-14	Appendix IV	Arsenic	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.00622	0.00600	0.00400	0.00800	0.00125	0.201	-0.143
21_3_103	MW-14	Appendix IV	Barium	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Nonparametric	Nonparametric	0.133	0.131	0.119	0.177	0.0160	0.120	2.42
21_3_104	MW-14	Appendix IV	Beryllium	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.000934	0.00100	0.000270	0.00100	0.000220	0.236	-3.32
21_3_106	MW-14	Appendix IV	Cadmium	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.000462	0.000500	0.0000770	0.000500	0.000128	0.276	-3.32
21_3_109	MW-14	Appendix IV	Chromium	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00465	0.00500	0.00120	0.00500	0.00115	0.246	-3.32
21_3_110	MW-14	Appendix IV	Cobalt	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.00461	0.00500	0.000690	0.00500	0.00130	0.282	-3.32

(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
21_3_113	MW-14	Appendix IV	Fluoride (App IV)	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.923	1.00	0.150	1.00	0.256	0.278	-3.32
21_3_115	MW-14	Appendix IV	Lead	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00277	0.00300	0.000450	0.00300	0.000769	0.278	-3.32
21_3_116	MW-14	Appendix IV	Lithium	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.110	0.109	0.0990	0.125	0.00765	0.0692	0.661
21_3_117	MW-14	Appendix IV	Mercury	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.000194	0.000200	0.000130	0.000200	0.0000211	0.109	-3.32
21_3_118	MW-14	Appendix IV	Molybdenum	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0134	0.0130	0.0120	0.0160	0.00136	0.102	0.641
21_3_121	MW-14	Appendix IV	Radium-226+228	pci/l	11	1	9%	2023-01-12 to 2025-02-04	Lognormal	Lognormal	1.86	0.994	0.464	6.88	1.99	1.07	2.10
21_3_122	MW-14	Appendix IV	Selenium	mg/l	11	9	82%	2023-01-12 to 2025-02-04		Nonparametric	0.00572	0.00500	0.000890	0.0130	0.00302	0.528	1.36
21_3_125	MW-14	Appendix IV	Thallium	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00186	0.00200	0.000510	0.00200	0.000449	0.241	-3.32
21_5_111	MW-14	Part 115	Copper	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00470	0.00500	0.00170	0.00500	0.000995	0.212	-3.32
21_5_114	MW-14	Part 115	Iron	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	11.7	11.5	6.58	15.0	2.50	0.213	-0.578
21_5_119	MW-14	Part 115	Nickel	mg/l	11	6	55%	2023-01-12 to 2025-02-04		Nonparametric	0.00498	0.00500	0.00380	0.00600	0.000494	0.0991	-0.605
21_5_123	MW-14	Part 115	Silver	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.000459	0.000500	0.0000530	0.000500	0.000135	0.293	-3.32
21_5_128	MW-14	Part 115	Vanadium	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.00472	0.00500	0.00190	0.00500	0.000935	0.198	-3.32
21_5_129	MW-14	Part 115	Zinc	mg/l	11	9	82%	2023-01-12 to 2025-02-04		Nonparametric	0.00791	0.00500	0.00500	0.0240	0.00661	0.836	2.10
22_2_105	MW-15	Appendix III	Boron	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.371	0.370	0.300	0.440	0.0425	0.115	-0.0196
22_2_107	MW-15	Appendix III	Calcium	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	136	133	104	183	20.8	0.153	0.897
22_2_108	MW-15	Appendix III	Chloride	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	75.1	73.0	59.0	100	12.6	0.168	0.687
22_2_112	MW-15	Appendix III	Fluoride	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.913	1.00	0.0470	1.00	0.287	0.315	-3.32
22_2_120	MW-15	Appendix III	pH, Field	su	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	6.81	6.83	6.68	6.99	0.116	0.0170	0.372
22_2_124	MW-15	Appendix III	Sulfate	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Nonparametric	Nonparametric	119	110	49.7	238	45	0.377	1.77
22_2_126	MW-15	Appendix III	Total Dissolved Solids	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	643	638	528	878	93.7	0.146	1.55
22_3_101	MW-15	Appendix IV	Antimony	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00460	0.00500	0.000570	0.00500	0.00134	0.291	-3.32
22_3_102	MW-15	Appendix IV	Arsenic	mg/l	11	9	82%	2023-01-12 to 2025-02-04		Nonparametric	0.00191	0.00200	0.000970	0.00200	0.000311	0.163	-3.32
22_3_103	MW-15	Appendix IV	Barium	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0576	0.0580	0.0420	0.0770	0.0105	0.182	0.365
22_3_104	MW-15	Appendix IV	Beryllium	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.000934	0.00100	0.000270	0.00100	0.000220	0.236	-3.32
22_3_106	MW-15	Appendix IV	Cadmium	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.000462	0.000500	0.0000770	0.000500	0.000128	0.276	-3.32
22_3_109	MW-15	Appendix IV	Chromium	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00465	0.00500	0.00120	0.00500	0.00115	0.246	-3.32
22_3_110	MW-15	Appendix IV	Cobalt	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00455	0.00500	0.0000860	0.00500	0.00148	0.325	-3.32
22_3_113	MW-15	Appendix IV	Fluoride (App IV)	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.913	1.00	0.0470	1.00	0.287	0.315	-3.32
22_3_115	MW-15	Appendix IV	Lead	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00277	0.00300	0.000450	0.00300	0.000769	0.278	-3.32
22_3_116	MW-15	Appendix IV	Lithium	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.00567	0.00500	0.00340	0.0140	0.00280	0.494	3.12
22_3_117	MW-15	Appendix IV	Mercury	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.000194	0.000200	0.000130	0.000200	0.0000211	0.109	-3.32
22_3_118	MW-15	Appendix IV	Molybdenum	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00465	0.00500	0.00110	0.00500	0.00118	0.253	-3.32
22_3_121	MW-15	Appendix IV	Radium-226+228	pci/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	1.12	0.921	0.316	2.06	0.641	0.573	0.366
22_3_122	MW-15	Appendix IV	Selenium	mg/l	11	4	36%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0136	0.0100	0.00500	0.0340	0.00995	0.730	1.01
22_3_125	MW-15	Appendix IV	Thallium	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00186	0.00200	0.000510	0.00200	0.000449	0.241	-3.32
22_5_111	MW-15	Part 115	Copper	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00470	0.00500	0.00170	0.00500	0.000995	0.212	-3.32
22_5_114	MW-15	Part 115	Iron	mg/l	11	1	9%	2023-01-12 to 2025-02-04	Gamma; Lognormal	Gamma	0.0955	0.0500	0.0200	0.380	0.104	1.09	2.31
22_5_119	MW-15	Part 115	Nickel	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00468	0.00500	0.00150	0.00500	0.00106	0.225	-3.32
22_5_123	MW-15	Part 115	Silver	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.000459	0.000500	0.0000530	0.000500	0.000135	0.293	-3.32
22_5_128	MW-15	Part 115	Vanadium	mg/l	11	11	100%	2023-01-12 to 2025-02-04		Nonparametric	0.00462	0.00500	0.000820	0.00500	0.00126	0.273	-3.32
22_5_129	MW-15	Part 115	Zinc	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.00608	0.00500	0.000930	0.0210	0.00510	0.837	2.93

(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
23_2_105	MW-16A	Appendix III	Boron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.170	0.175	0.100	0.250	0.0543	0.319	-0.131
23_2_107	MW-16A	Appendix III	Calcium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	187	188	145	226	26.8	0.143	-0.206
23_2_108	MW-16A	Appendix III	Chloride	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	442	442	383	505	42.1	0.0953	0.0435
23_2_112	MW-16A	Appendix III	Fluoride	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	1.34	1.00	0.0980	5.00	1.22	0.911	2.81
23_2_120	MW-16A	Appendix III	pH, Field	su	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	6.84	6.82	6.72	7.00	0.0969	0.0142	0.571
23_2_124	MW-16A	Appendix III	Sulfate	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	193	193	86.0	341	80.0	0.415	0.274
23_2_126	MW-16A	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	1443	1445	1170	1720	182	0.126	-0.175
23_3_101	MW-16A	Appendix IV	Antimony	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00463	0.00500	0.000570	0.00500	0.00128	0.276	-3.46
23_3_102	MW-16A	Appendix IV	Arsenic	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Lognormal; Normal	Normal	0.00323	0.00300	0.00180	0.00500	0.000894	0.276	0.301
23_3_103	MW-16A	Appendix IV	Barium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.147	0.152	0.108	0.178	0.0228	0.155	-0.259
23_3_104	MW-16A	Appendix IV	Beryllium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000939	0.00100	0.000270	0.00100	0.000211	0.224	-3.46
23_3_106	MW-16A	Appendix IV	Cadmium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000465	0.000500	0.0000770	0.000500	0.000122	0.263	-3.46
23_3_109	MW-16A	Appendix IV	Chromium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00468	0.00500	0.00120	0.00500	0.00110	0.234	-3.46
23_3_110	MW-16A	Appendix IV	Cobalt	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00468	0.00500	0.00120	0.00500	0.00110	0.234	-3.46
23_3_113	MW-16A	Appendix IV	Fluoride (App IV)	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	1.34	1.00	0.0980	5.00	1.22	0.911	2.81
23_3_115	MW-16A	Appendix IV	Lead	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00279	0.00300	0.000450	0.00300	0.000736	0.264	-3.46
23_3_116	MW-16A	Appendix IV	Lithium	mg/l	12	10	83%	2023-02-02 to 2025-02-06		Nonparametric	0.00487	0.00500	0.00350	0.00500	0.000433	0.0888	-3.46
23_3_117	MW-16A	Appendix IV	Mercury	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000194	0.000200	0.000130	0.000200	0.0000202	0.104	-3.46
23_3_118	MW-16A	Appendix IV	Molybdenum	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00472	0.00500	0.00170	0.00500	0.000953	0.202	-3.46
23_3_121	MW-16A	Appendix IV	Radium-226+228	pci/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Gamma	2.09	1.20	0.562	7.46	2.03	0.973	1.87
23_3_122	MW-16A	Appendix IV	Selenium	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00466	0.00500	0.000890	0.00500	0.00119	0.255	-3.46
23_3_125	MW-16A	Appendix IV	Thallium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00188	0.00200	0.000510	0.00200	0.000430	0.229	-3.46
23_5_111	MW-16A	Part 115	Copper	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00472	0.00500	0.00170	0.00500	0.000953	0.202	-3.46
23_5_114	MW-16A	Part 115	Iron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	3.28	3.12	2.59	4.38	0.591	0.180	0.690
23_5_119	MW-16A	Part 115	Nickel	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00471	0.00500	0.00150	0.00500	0.00101	0.215	-3.46
23_5_123	MW-16A	Part 115	Silver	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000463	0.000500	0.0000530	0.000500	0.000129	0.279	-3.46
23_5_128	MW-16A	Part 115	Vanadium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00465	0.00500	0.000820	0.00500	0.00121	0.259	-3.46
23_5_129	MW-16A	Part 115	Zinc	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00466	0.00500	0.000930	0.00500	0.00117	0.252	-3.46
24_2_105	MW-16B	Appendix III	Boron	mg/l	12	0	0%	2023-02-02 to 2025-02-06		Nonparametric	0.117	0.115	0.110	0.130	0.00778	0.0667	0.719
24_2_107	MW-16B	Appendix III	Calcium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	80.8	81.2	74.5	85.4	3.17	0.0392	-0.495
24_2_108	MW-16B	Appendix III	Chloride	mg/l	12	5	42%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Gamma	4.85	5.00	2.80	11.0	2.11	0.435	2.49
24_2_112	MW-16B	Appendix III	Fluoride	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.901	1.00	0.310	1.00	0.211	0.234	-2.41
24_2_120	MW-16B	Appendix III	pH, Field	su	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	7.42	7.44	7.25	7.56	0.0859	0.0116	-0.660
24_2_124	MW-16B	Appendix III	Sulfate	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	17.6	17.6	15.0	21.0	1.65	0.0939	0.635
24_2_126	MW-16B	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	365	366	350	378	8.63	0.0237	-0.445
24_3_101	MW-16B	Appendix IV	Antimony	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00463	0.00500	0.000570	0.00500	0.00128	0.276	-3.46
24_3_102	MW-16B	Appendix IV	Arsenic	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00190	0.00200	0.000750	0.00200	0.000361	0.190	-3.46
24_3_103	MW-16B	Appendix IV	Barium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0868	0.0860	0.0820	0.0910	0.00269	0.0310	-0.0230
24_3_104	MW-16B	Appendix IV	Beryllium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000939	0.00100	0.000270	0.00100	0.000211	0.224	-3.46
24_3_106	MW-16B	Appendix IV	Cadmium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000465	0.000500	0.0000770	0.000500	0.000122	0.263	-3.46
24_3_109	MW-16B	Appendix IV	Chromium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00468	0.00500	0.00120	0.00500	0.00110	0.234	-3.46
24_3_110	MW-16B	Appendix IV	Cobalt	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00459	0.00500	0.0000860	0.00500	0.00142	0.309	-3.46

(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
24_3_113	MW-16B	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.901	1.00	0.310	1.00	0.211	0.234	-2.41
24_3_115	MW-16B	Appendix IV	Lead	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00279	0.00300	0.000450	0.00300	0.000736	0.264	-3.46
24_3_116	MW-16B	Appendix IV	Lithium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0212	0.0210	0.0190	0.0230	0.00127	0.0599	-0.0476
24_3_117	MW-16B	Appendix IV	Mercury	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000194	0.000200	0.000130	0.000200	0.0000202	0.104	-3.46
24_3_118	MW-16B	Appendix IV	Molybdenum	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Nonparametric	Nonparametric	0.00618	0.00600	0.00500	0.00800	0.000716	0.116	1.44
24_3_121	MW-16B	Appendix IV	Radium-226+228	pci/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Gamma	2.40	1.94	1.04	6.43	1.49	0.620	2.11
24_3_122	MW-16B	Appendix IV	Selenium	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00474	0.00500	0.000890	0.00600	0.00125	0.263	-3.10
24_3_125	MW-16B	Appendix IV	Thallium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00188	0.00200	0.000510	0.00200	0.000430	0.229	-3.46
24_5_111	MW-16B	Part 115	Copper	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00472	0.00500	0.00170	0.00500	0.000953	0.202	-3.46
24_5_114	MW-16B	Part 115	Iron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Lognormal	Lognormal	0.496	0.425	0.330	0.930	0.169	0.340	1.81
24_5_119	MW-16B	Part 115	Nickel	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00471	0.00500	0.00150	0.00500	0.00101	0.215	-3.46
24_5_123	MW-16B	Part 115	Silver	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000463	0.000500	0.0000530	0.000500	0.000129	0.279	-3.46
24_5_128	MW-16B	Part 115	Vanadium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00465	0.00500	0.000820	0.00500	0.00121	0.259	-3.46
24_5_129	MW-16B	Part 115	Zinc	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00466	0.00500	0.000930	0.00500	0.00117	0.252	-3.46
30_2_105	MW-100A	Appendix III	Boron	mg/l	10	1	10%	2023-06-05 to 2025-02-05		Nonparametric	0.0487	0.0500	0.0400	0.0570	0.00508	0.104	-0.774
30_2_107	MW-100A	Appendix III	Calcium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	92.0	92.2	88.6	95.3	2.07	0.0225	-0.367
30_2_108	MW-100A	Appendix III	Chloride	mg/l	10	0	0%	2023-06-05 to 2025-02-05		Nonparametric	10.1	10.0	10.0	10.6	0.210	0.0207	1.66
30_2_112	MW-100A	Appendix III	Fluoride	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.819	1.00	0.220	1.00	0.303	0.370	-1.31
30_2_120	MW-100A	Appendix III	pH, Field	su	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.27	7.29	7.08	7.40	0.0946	0.0130	-0.637
30_2_124	MW-100A	Appendix III	Sulfate	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	24.5	21.9	16.2	38.0	7.19	0.293	0.947
30_2_126	MW-100A	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Normal	Normal	410	414	360	434	19.6	0.0479	-1.98
30_3_101	MW-100A	Appendix IV	Antimony	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00456	0.00500	0.000570	0.00500	0.00140	0.307	-3.16
30_3_102	MW-100A	Appendix IV	Arsenic	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0140	0.0145	0.00900	0.0180	0.00291	0.208	-0.543
30_3_103	MW-100A	Appendix IV	Barium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.199	0.201	0.189	0.207	0.00713	0.0358	-0.521
30_3_104	MW-100A	Appendix IV	Beryllium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000927	0.00100	0.000270	0.00100	0.000231	0.249	-3.16
30_3_106	MW-100A	Appendix IV	Cadmium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000458	0.000500	0.0000770	0.000500	0.000134	0.292	-3.16
30_3_109	MW-100A	Appendix IV	Chromium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00462	0.00500	0.00120	0.00500	0.00120	0.260	-3.16
30_3_110	MW-100A	Appendix IV	Cobalt	mg/l	10	9	90%	2023-06-05 to 2025-02-05		Nonparametric	0.00453	0.00500	0.000330	0.00500	0.00148	0.326	-3.16
30_3_113	MW-100A	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.819	1.00	0.220	1.00	0.303	0.370	-1.31
30_3_115	MW-100A	Appendix IV	Lead	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00274	0.00300	0.000450	0.00300	0.000806	0.294	-3.16
30_3_116	MW-100A	Appendix IV	Lithium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0159	0.0165	0.0110	0.0200	0.00303	0.191	-0.358
30_3_117	MW-100A	Appendix IV	Mercury	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000193	0.000200	0.000130	0.000200	0.0000221	0.115	-3.16
30_3_118	MW-100A	Appendix IV	Molybdenum	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0102	0.0105	0.00690	0.0130	0.00211	0.208	-0.261
30_3_121	MW-100A	Appendix IV	Radium-226+228	pci/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.13	0.979	0.402	2.50	0.740	0.655	0.931
30_3_122	MW-100A	Appendix IV	Selenium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00459	0.00500	0.000890	0.00500	0.00130	0.283	-3.16
30_3_125	MW-100A	Appendix IV	Thallium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00185	0.00200	0.000510	0.00200	0.000471	0.255	-3.16
30_5_111	MW-100A	Part 115	Copper	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00467	0.00500	0.00170	0.00500	0.00104	0.223	-3.16
30_5_114	MW-100A	Part 115	Iron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Normal	Normal	2.51	2.57	0.630	3.75	0.960	0.383	-0.826
30_5_119	MW-100A	Part 115	Nickel	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00465	0.00500	0.00150	0.00500	0.00111	0.238	-3.16
30_5_123	MW-100A	Part 115	Silver	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000455	0.000500	0.0000530	0.000500	0.000141	0.310	-3.16
30_5_128	MW-100A	Part 115	Vanadium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00458	0.00500	0.000820	0.00500	0.00132	0.288	-3.16
30_5_129	MW-100A	Part 115	Zinc	mg/l	10	8	80%	2023-06-05 to 2025-02-05		Nonparametric	0.00488	0.00500	0.00280	0.00600	0.000796	0.163	-2.09

(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
31_2_105	MW-100B	Appendix III	Boron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.253	0.255	0.210	0.300	0.0283	0.112	0.171
31_2_107	MW-100B	Appendix III	Calcium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	97.8	97.3	89.0	108	5.22	0.0534	0.413
31_2_108	MW-100B	Appendix III	Chloride	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	22.7	23.4	19.0	25.0	2.19	0.0966	-0.960
31_2_112	MW-100B	Appendix III	Fluoride	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.789	1.00	0.150	1.00	0.347	0.439	-1.18
31_2_120	MW-100B	Appendix III	pH, Field	su	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.43	7.41	7.33	7.62	0.0989	0.0133	1.04
31_2_124	MW-100B	Appendix III	Sulfate	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	115	111	105	136	9.68	0.0843	1.38
31_2_126	MW-100B	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	499	494	440	538	28.4	0.0569	-0.606
31_3_101	MW-100B	Appendix IV	Antimony	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00456	0.00500	0.000570	0.00500	0.00140	0.307	-3.16
31_3_102	MW-100B	Appendix IV	Arsenic	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Nonparametric	Nonparametric	0.0100	0.0100	0.00730	0.0110	0.00117	0.116	-1.55
31_3_103	MW-100B	Appendix IV	Barium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.149	0.147	0.140	0.164	0.00785	0.0525	0.727
31_3_104	MW-100B	Appendix IV	Beryllium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000927	0.00100	0.000270	0.00100	0.000231	0.249	-3.16
31_3_106	MW-100B	Appendix IV	Cadmium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000458	0.000500	0.0000770	0.000500	0.000134	0.292	-3.16
31_3_109	MW-100B	Appendix IV	Chromium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00462	0.00500	0.00120	0.00500	0.00120	0.260	-3.16
31_3_110	MW-100B	Appendix IV	Cobalt	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00451	0.00500	0.0000860	0.00500	0.00155	0.345	-3.16
31_3_113	MW-100B	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.789	1.00	0.150	1.00	0.347	0.439	-1.18
31_3_115	MW-100B	Appendix IV	Lead	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00274	0.00300	0.000450	0.00300	0.000806	0.294	-3.16
31_3_116	MW-100B	Appendix IV	Lithium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0176	0.0175	0.0160	0.0190	0.000966	0.0549	0.111
31_3_117	MW-100B	Appendix IV	Mercury	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000193	0.000200	0.000130	0.000200	0.0000221	0.115	-3.16
31_3_118	MW-100B	Appendix IV	Molybdenum	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Lognormal; Normal	Normal	0.00865	0.00900	0.00600	0.0110	0.00149	0.172	-0.551
31_3_121	MW-100B	Appendix IV	Radium-226+228	pci/l	10	1	10%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.31	1.43	0.494	2.16	0.616	0.470	-0.164
31_3_122	MW-100B	Appendix IV	Selenium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00459	0.00500	0.000890	0.00500	0.00130	0.283	-3.16
31_3_125	MW-100B	Appendix IV	Thallium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00185	0.00200	0.000510	0.00200	0.000471	0.255	-3.16
31_5_111	MW-100B	Part 115	Copper	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00467	0.00500	0.00170	0.00500	0.00104	0.223	-3.16
31_5_114	MW-100B	Part 115	Iron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	2.51	2.38	1.77	3.54	0.480	0.191	0.926
31_5_119	MW-100B	Part 115	Nickel	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00465	0.00500	0.00150	0.00500	0.00111	0.238	-3.16
31_5_123	MW-100B	Part 115	Silver	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000455	0.000500	0.0000530	0.000500	0.000141	0.310	-3.16
31_5_128	MW-100B	Part 115	Vanadium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00458	0.00500	0.000820	0.00500	0.00132	0.288	-3.16
31_5_129	MW-100B	Part 115	Zinc	mg/l	10	9	90%	2023-06-05 to 2025-02-05		Nonparametric	0.00469	0.00500	0.00190	0.00500	0.000980	0.209	-3.16

^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_105	MW-2	Appendix III	Boron	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	4.71	4.76	3.30	6.17	0.977	0.208	-0.0823
11_2_107	MW-2	Appendix III	Calcium	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Normal	Normal	236	251	190	272	31.9	0.135	-0.334
11_2_108	MW-2	Appendix III	Chloride	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	79.7	81.7	59.0	94.0	9.28	0.116	-0.730
11_2_112	MW-2	Appendix III	Fluoride	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.0620	0.0620	0.0620	0.0620	NA	NA	NA
11_2_120	MW-2	Appendix III	pH, Field	su	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	6.77	6.76	6.54	6.90	0.0879	0.0130	-0.773
11_2_124	MW-2	Appendix III	Sulfate	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	418	398	220	580	124	0.296	-0.186
11_2_126	MW-2	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	1191	1180	910	1430	174	0.146	-0.182
11_3_102	MW-2	Appendix IV	Arsenic	mg/l	18	15	83%	2020-04-28 to 2025-02-04		Nonparametric	0.00300	0.00300	0.00200	0.00400	0.00100	0.333	0
11_3_103	MW-2	Appendix IV	Barium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0402	0.0405	0.0340	0.0480	0.00386	0.0959	0.0796
11_3_106	MW-2	Appendix IV	Cadmium	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.0000990	0.0000990	0.0000990	0.0000990	NA	NA	NA
11_3_110	MW-2	Appendix IV	Cobalt	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.00360	0.00360	0.00360	0.00360	NA	NA	NA
11_3_113	MW-2	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.0620	0.0620	0.0620	0.0620	NA	NA	NA
11_3_116	MW-2	Appendix IV	Lithium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0543	0.0550	0.0380	0.0675	0.00895	0.165	-0.248
11_3_118	MW-2	Appendix IV	Molybdenum	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0110	0.0110	0.00700	0.0150	0.00199	0.181	0.0398
11_3_121	MW-2	Appendix IV	Radium-226+228	pci/l	18	1	6%	2020-04-28 to 2025-02-04	Normal	Normal	0.947	0.754	0	3.25	0.846	0.893	1.40
11_5_114	MW-2	Part 115	Iron	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal	Gamma	0.698	0.585	0.220	1.93	0.392	0.562	2.08
11_5_119	MW-2	Part 115	Nickel	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Lognormal; Normal	Normal	0.0217	0.0230	0.0120	0.0275	0.00490	0.226	-0.496
11_5_129	MW-2	Part 115	Zinc	mg/l	18	14	78%	2020-04-28 to 2025-02-04		Nonparametric	0.0142	0.00700	0.00190	0.0410	0.0180	1.27	1.89
12_2_105	MW-3	Appendix III	Boron	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	5.67	5.63	5.34	6.16	0.243	0.0430	0.880
12_2_107	MW-3	Appendix III	Calcium	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	245	248	223	257	11.7	0.0478	-0.944
12_2_108	MW-3	Appendix III	Chloride	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	97.2	99.0	89.0	103	4.86	0.0500	-0.473
12_2_112	MW-3	Appendix III	Fluoride	mg/l	9	8	89%	2021-05-04 to 2025-02-06		Nonparametric	0.190	0.190	0.190	0.190	NA	NA	NA
12_2_120	MW-3	Appendix III	pH, Field	su	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	7.25	7.24	7.15	7.38	0.0729	0.0101	0.467
12_2_124	MW-3	Appendix III	Sulfate	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	703	698	675	732	21.2	0.0302	0.325
12_2_126	MW-3	Appendix III	Total Dissolved Solids	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Nonparametric	Nonparametric	1429	1440	1200	1500	89.8	0.0628	-2.50
12_3_102	MW-3	Appendix IV	Arsenic	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Nonparametric	Nonparametric	0.00340	0.00300	0.00260	0.00600	0.00104	0.307	2.39
12_3_103	MW-3	Appendix IV	Barium	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0188	0.0190	0.0160	0.0210	0.00179	0.0952	-0.250
12_3_110	MW-3	Appendix IV	Cobalt	mg/l	9	8	89%	2021-05-04 to 2025-02-06		Nonparametric	0.000490	0.000490	0.000490	0.000490	NA	NA	NA
12_3_113	MW-3	Appendix IV	Fluoride (App IV)	mg/l	9	8	89%	2021-05-04 to 2025-02-06		Nonparametric	0.190	0.190	0.190	0.190	NA	NA	NA
12_3_116	MW-3	Appendix IV	Lithium	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0812	0.0800	0.0750	0.0910	0.00552	0.0679	0.558
12_3_118	MW-3	Appendix IV	Molybdenum	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.163	0.162	0.150	0.182	0.0104	0.0634	0.636
12_3_121	MW-3	Appendix IV	Radium-226+228	pci/l	9	1	11%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	1.52	1.16	0.412	2.92	0.879	0.577	0.545
12_5_114	MW-3	Part 115	Iron	mg/l	9	0	0%	2021-05-04 to 2025-02-06	Gamma; Lognormal; Normal	Normal	1.83	1.84	1.52	2.05	0.194	0.106	-0.451
12_5_119	MW-3	Part 115	Nickel	mg/l	9	8	89%	2021-05-04 to 2025-02-06		Nonparametric	0.00220	0.00220	0.00220	0.00220	NA	NA	NA
12_5_129	MW-3	Part 115	Zinc	mg/l	9	8	89%	2021-05-04 to 2025-02-06		Nonparametric	0.00180	0.00180	0.00180	0.00180	NA	NA	NA
13_2_105	MW-5	Appendix III	Boron	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Normal	Normal	4.0	4.48	0.370	5.38	1.25	0.313	-1.62
13_2_107	MW-5	Appendix III	Calcium	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	224	229	70.1	346	69.1	0.309	-0.339
13_2_108	MW-5	Appendix III	Chloride	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Nonparametric	Nonparametric	62.9	66.0	34.0	82.0	16.7	0.266	-0.633
13_2_112	MW-5	Appendix III	Fluoride	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.110	0.110	0.110	0.110	NA	NA	NA
13_2_120	MW-5	Appendix III	pH, Field	su	18	0	0%	2020-04-28 to 2025-02-04	Nonparametric	Nonparametric	7.21	7.27	6.40	7.40	0.232	0.0322	-2.84
13_2_124	MW-5	Appendix III	Sulfate	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	606	591	186	1125	272	0.449	0.202
13_2_126	MW-5	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	1253	1230	592	1990	416	0.332	0.0503
13_3_102	MW-5	Appendix IV	Arsenic	mg/l	18	12	67%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Nonparametric	0.00383	0.00350	0.00200	0.00700	0.00194	0.506	0.839

(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
13_3_103	MW-5	Appendix IV	Barium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0454	0.0435	0.0330	0.0640	0.00785	0.173	0.881
13_3_106	MW-5	Appendix IV	Cadmium	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.0000920	0.0000920	0.0000920	0.0000920	NA	NA	NA
13_3_109	MW-5	Appendix IV	Chromium	mg/l	18	15	83%	2020-04-28 to 2025-02-04		Nonparametric	0.00613	0.00700	0.00140	0.0100	0.00437	0.712	-0.858
13_3_110	MW-5	Appendix IV	Cobalt	mg/l	18	16	89%	2020-04-28 to 2025-02-04		Nonparametric	0.00331	0.00331	0.000620	0.00600	0.00380	1.15	NA
13_3_113	MW-5	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.110	0.110	0.110	0.110	NA	NA	NA
13_3_115	MW-5	Appendix IV	Lead	mg/l	18	14	78%	2020-04-28 to 2025-02-04		Nonparametric	0.00567	0.00400	0.000690	0.0140	0.00582	1.03	1.47
13_3_116	MW-5	Appendix IV	Lithium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0686	0.0735	0.0160	0.0910	0.0178	0.260	-1.54
13_3_118	MW-5	Appendix IV	Molybdenum	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Normal	Normal	0.0554	0.0530	0.0100	0.0960	0.0201	0.363	-0.0733
13_3_121	MW-5	Appendix IV	Radium-226+228	pci/l	18	1	6%	2020-04-28 to 2025-02-04	Gamma; Lognormal	Gamma	1.68	1.50	0.524	4.22	1.06	0.633	1.47
13_5_111	MW-5	Part 115	Copper	mg/l	18	13	72%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Nonparametric	0.0123	0.00900	0.00260	0.0260	0.00988	0.802	0.652
13_5_114	MW-5	Part 115	Iron	mg/l	18	1	6%	2020-04-28 to 2025-02-04	Gamma; Lognormal	Gamma	1.52	0.900	0.160	8.00	2.00	1.32	2.57
13_5_119	MW-5	Part 115	Nickel	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0103	0.0100	0.00470	0.0190	0.00413	0.399	0.465
13_5_123	MW-5	Part 115	Silver	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.0000880	0.0000880	0.0000880	0.0000880	NA	NA	NA
13_5_128	MW-5	Part 115	Vanadium	mg/l	18	14	78%	2020-04-28 to 2025-02-04		Nonparametric	0.00688	0.00700	0.00150	0.0120	0.00459	0.668	-0.122
13_5_129	MW-5	Part 115	Zinc	mg/l	18	4	22%	2020-04-28 to 2025-02-04	Lognormal	Lognormal	0.0206	0.00850	0.00370	0.0980	0.0259	1.25	2.39
14_2_105	MW-6	Appendix III	Boron	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.781	0.760	0.490	1.04	0.172	0.220	0.0177
14_2_107	MW-6	Appendix III	Calcium	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	170	169	142	200	19.4	0.114	0.0385
14_2_108	MW-6	Appendix III	Chloride	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	34.1	35.0	24.0	49.0	7.32	0.214	0.271
14_2_112	MW-6	Appendix III	Fluoride	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.240	0.240	0.240	0.240	NA	NA	NA
14_2_120	MW-6	Appendix III	pH, Field	su	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	6.74	6.76	6.35	7.00	0.141	0.0210	-1.04
14_2_124	MW-6	Appendix III	Sulfate	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	179	180	118	252	46.6	0.260	0.289
14_2_126	MW-6	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	755	738	598	900	93.1	0.123	0.0138
14_3_102	MW-6	Appendix IV	Arsenic	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.00300	0.00300	0.00300	0.00300	NA	NA	NA
14_3_103	MW-6	Appendix IV	Barium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0486	0.0495	0.0380	0.0620	0.00608	0.125	0.302
14_3_106	MW-6	Appendix IV	Cadmium	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.000150	0.000150	0.000150	0.000150	NA	NA	NA
14_3_110	MW-6	Appendix IV	Cobalt	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.000530	0.000530	0.000530	0.000530	NA	NA	NA
14_3_113	MW-6	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	2020-04-28 to 2025-02-04		Nonparametric	0.240	0.240	0.240	0.240	NA	NA	NA
14_3_116	MW-6	Appendix IV	Lithium	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0472	0.0475	0.0320	0.0670	0.00863	0.183	0.366
14_3_118	MW-6	Appendix IV	Molybdenum	mg/l	18	0	0%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0249	0.0255	0.0120	0.0360	0.00596	0.239	-0.399
14_3_121	MW-6	Appendix IV	Radium-226+228	pci/l	18	1	6%	2020-04-28 to 2025-02-04	Normal	Normal	1.22	0.961	0	4.29	1.04	0.852	1.75
14_5_114	MW-6	Part 115	Iron	mg/l	18	9	50%	2020-04-28 to 2025-02-04	Gamma; Lognormal; Normal	Nonparametric	0.0600	0.0400	0.0200	0.200	0.0566	0.943	2.27
14_5_119	MW-6	Part 115	Nickel	mg/l	18	5	28%	2020-04-28 to 2025-02-04	Nonparametric	Nonparametric	0.00645	0.00700	0.00330	0.00800	0.00122	0.190	-1.53
14_5_129	MW-6	Part 115	Zinc	mg/l	18	16	89%	2020-04-28 to 2025-02-04		Nonparametric	0.0180	0.0180	0.00200	0.0340	0.0226	1.26	NA
15_2_105	MW-7	Appendix III	Boron	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.87	1.88	1.08	2.75	0.408	0.218	0.0536
15_2_107	MW-7	Appendix III	Calcium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	118	111	97.2	165	18.8	0.160	1.60
15_2_108	MW-7	Appendix III	Chloride	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	79.0	76.5	72.2	98.0	7.17	0.0907	1.55
15_2_112	MW-7	Appendix III	Fluoride	mg/l	14	11	79%	2021-06-15 to 2025-02-05		Nonparametric	0.336	0.338	0.300	0.370	0.0350	0.104	-0.256
15_2_120	MW-7	Appendix III	pH, Field	su	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	7.47	7.43	7.09	8.18	0.243	0.0326	1.84
15_2_124	MW-7	Appendix III	Sulfate	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	201	190	171	270	30.4	0.151	1.47
15_2_126	MW-7	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	626	601	548	864	84.4	0.135	2.18
15_3_102	MW-7	Appendix IV	Arsenic	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	0.00534	0.00600	0.00270	0.00700	0.00113	0.212	-1.02
15_3_103	MW-7	Appendix IV	Barium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0523	0.0530	0.0360	0.0620	0.00641	0.123	-1.03
15_3_109	MW-7	Appendix IV	Chromium	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00700	0.00700	0.00700	0.00700	NA	NA	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
15_3_110	MW-7	Appendix IV	Cobalt	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.000260	0.000260	0.000260	0.000260	NA	NA	NA
15_3_113	MW-7	Appendix IV	Fluoride (App IV)	mg/l	14	11	79%	2021-06-15 to 2025-02-05		Nonparametric	0.336	0.338	0.300	0.370	0.0350	0.104	-0.256
15_3_116	MW-7	Appendix IV	Lithium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0890	0.0910	0.0630	0.112	0.0133	0.149	-0.324
15_3_117	MW-7	Appendix IV	Mercury	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.000200	0.000200	0.000200	0.000200	NA	NA	NA
15_3_118	MW-7	Appendix IV	Molybdenum	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	0.233	0.260	0.146	0.296	0.0579	0.249	-0.342
15_3_121	MW-7	Appendix IV	Radium-226+228	pci/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	2.18	1.83	0.514	5.44	1.49	0.683	1.12
15_5_114	MW-7	Part 115	Iron	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal	Gamma	1.43	1.35	0.900	2.81	0.471	0.329	2.08
15_5_128	MW-7	Part 115	Vanadium	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00600	0.00600	0.00600	0.00600	NA	NA	NA
15_5_129	MW-7	Part 115	Zinc	mg/l	14	11	79%	2021-06-15 to 2025-02-05		Nonparametric	0.00933	0.00700	0.00700	0.0140	0.00404	0.433	1.73
16_2_105	MW-7C	Appendix III	Boron	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	6.57	6.54	6.20	7.24	0.259	0.0394	1.32
16_2_107	MW-7C	Appendix III	Calcium	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Nonparametric	Nonparametric	239	241	183	277	21.2	0.0889	-1.23
16_2_108	MW-7C	Appendix III	Chloride	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	93.4	93.0	83.0	105	5.31	0.0569	0.532
16_2_112	MW-7C	Appendix III	Fluoride	mg/l	13	12	92%	2022-03-10 to 2025-02-05		Nonparametric	0.240	0.240	0.240	0.240	NA	NA	NA
16_2_120	MW-7C	Appendix III	pH, Field	su	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.35	7.32	7.23	7.51	0.0947	0.0129	0.473
16_2_124	MW-7C	Appendix III	Sulfate	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	684	675	640	751	34.5	0.0505	0.757
16_2_126	MW-7C	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1364	1360	1200	1500	70.9	0.0520	-0.347
16_3_102	MW-7C	Appendix IV	Arsenic	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Nonparametric	Nonparametric	0.00648	0.00600	0.00500	0.0100	0.00124	0.191	1.98
16_3_103	MW-7C	Appendix IV	Barium	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0426	0.0420	0.0390	0.0470	0.00250	0.0587	0.216
16_3_106	MW-7C	Appendix IV	Cadmium	mg/l	13	10	77%	2022-03-10 to 2025-02-05		Nonparametric	0.000800	0.000800	0.000700	0.000900	0.000100	0.125	-0.00000000000000485
16_3_113	MW-7C	Appendix IV	Fluoride (App IV)	mg/l	13	12	92%	2022-03-10 to 2025-02-05		Nonparametric	0.240	0.240	0.240	0.240	NA	NA	NA
16_3_116	MW-7C	Appendix IV	Lithium	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.126	0.126	0.110	0.138	0.00737	0.0583	-0.522
16_3_118	MW-7C	Appendix IV	Molybdenum	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.395	0.397	0.350	0.422	0.0192	0.0487	-0.855
16_3_121	MW-7C	Appendix IV	Radium-226+228	pci/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	2.04	1.76	0.773	3.66	1.09	0.535	0.466
16_5_114	MW-7C	Part 115	Iron	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Gamma; Lognormal; Normal	Normal	4.05	4.11	3.67	4.41	0.240	0.0593	-0.0896
16_5_119	MW-7C	Part 115	Nickel	mg/l	13	0	0%	2022-03-10 to 2025-02-05	Nonparametric	Nonparametric	0.00753	0.00700	0.00590	0.0100	0.000981	0.130	1.08
16_5_129	MW-7C	Part 115	Zinc	mg/l	13	11	85%	2022-03-10 to 2025-02-05		Nonparametric	0.00360	0.00360	0.00120	0.00600	0.00339	0.943	NA
17_2_105	MW-8	Appendix III	Boron	mg/l	14	1	7%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0918	0.0800	0.0400	0.210	0.0443	0.483	1.67
17_2_107	MW-8	Appendix III	Calcium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	94.0	94	86.5	104	5.36	0.0570	0.130
17_2_108	MW-8	Appendix III	Chloride	mg/l	14	2	14%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	24.3	16.0	4.45	66.0	20.3	0.835	1.26
17_2_112	MW-8	Appendix III	Fluoride	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.0563	0.0563	0.0540	0.0587	0.00332	0.0590	NA
17_2_120	MW-8	Appendix III	pH, Field	su	14	0	0%	2021-06-15 to 2025-02-05	Nonparametric	Nonparametric	7.16	7.13	6.99	7.78	0.200	0.0279	2.51
17_2_124	MW-8	Appendix III	Sulfate	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	25	23.2	11.0	52.0	13	0.519	0.993
17_2_126	MW-8	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	391	383	360	460	28.3	0.0724	1.30
17_3_102	MW-8	Appendix IV	Arsenic	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00200	0.00200	0.00200	0.00200	NA	NA	NA
17_3_103	MW-8	Appendix IV	Barium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0219	0.0210	0.0170	0.0280	0.00308	0.141	0.541
17_3_113	MW-8	Appendix IV	Fluoride (App IV)	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.0563	0.0563	0.0540	0.0587	0.00332	0.0590	NA
17_3_116	MW-8	Appendix IV	Lithium	mg/l	14	6	43%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.00800	0.00800	0.00500	0.0130	0.00278	0.347	0.640
17_3_118	MW-8	Appendix IV	Molybdenum	mg/l	14	11	79%	2021-06-15 to 2025-02-05		Nonparametric	0.00813	0.00600	0.00540	0.0130	0.00423	0.520	1.69
17_3_121	MW-8	Appendix IV	Radium-226+228	pci/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Gamma	1.97	1.68	0.118	6.21	1.76	0.895	1.27
17_5_111	MW-8	Part 115	Copper	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.0100	0.0100	0.0100	0.0100	NA	NA	NA
17_5_114	MW-8	Part 115	Iron	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.0200	0.0200	0.0200	0.0200	NA	NA	NA
17_5_128	MW-8	Part 115	Vanadium	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00500	0.00500	0.00500	0.00500	NA	NA	NA
17_5_129	MW-8	Part 115	Zinc	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00700	0.00700	0.00700	0.00700	NA	NA	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
18_2_105	MW-9	Appendix III	Boron	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.0400	0.0400	0.0400	0.0400	NA	NA	NA
18_2_107	MW-9	Appendix III	Calcium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal	Gamma	77.6	76.8	61.8	100	12.5	0.161	0.773
18_2_108	MW-9	Appendix III	Chloride	mg/l	14	10	71%	2021-06-15 to 2025-02-05		Nonparametric	4.33	5.05	1.11	6.10	2.23	0.516	-1.57
18_2_112	MW-9	Appendix III	Fluoride	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.0330	0.0330	0.0330	0.0330	NA	NA	NA
18_2_120	MW-9	Appendix III	pH, Field	su	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.29	7.28	7.06	7.74	0.176	0.0242	1.18
18_2_124	MW-9	Appendix III	Sulfate	mg/l	14	8	57%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Nonparametric	9.18	8.95	3.58	16.0	4.99	0.544	0.233
18_2_126	MW-9	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	275	258	232	360	43.3	0.158	1.14
18_3_102	MW-9	Appendix IV	Arsenic	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00300	0.00300	0.00300	0.00300	NA	NA	NA
18_3_103	MW-9	Appendix IV	Barium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0149	0.0145	0.0130	0.0200	0.00202	0.135	1.29
18_3_113	MW-9	Appendix IV	Fluoride (App IV)	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.0330	0.0330	0.0330	0.0330	NA	NA	NA
18_3_121	MW-9	Appendix IV	Radium-226+228	pci/l	14	0	0%	2021-06-15 to 2025-02-05	Normal	Normal	1.10	1.05	0	2.37	0.833	0.755	0.254
18_5_129	MW-9	Part 115	Zinc	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.00510	0.00510	0.00120	0.00900	0.00552	1.08	NA
19_2_105	MW-10	Appendix III	Boron	mg/l	14	1	7%	2021-06-15 to 2025-02-05	Lognormal	Lognormal	0.0523	0.0500	0.0400	0.0700	0.00832	0.159	0.528
19_2_107	MW-10	Appendix III	Calcium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	128	128	113	142	9.31	0.0728	-0.0480
19_2_108	MW-10	Appendix III	Chloride	mg/l	14	9	64%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Nonparametric	4.01	2.20	1.03	9.30	3.55	0.886	1.01
19_2_112	MW-10	Appendix III	Fluoride	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.0580	0.0580	0.0500	0.0660	0.0113	0.195	NA
19_2_120	MW-10	Appendix III	pH, Field	su	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	6.75	6.71	6.49	7.30	0.205	0.0304	1.33
19_2_124	MW-10	Appendix III	Sulfate	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	14.9	14.2	9.00	27.8	4.66	0.312	1.56
19_2_126	MW-10	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	430	434	360	494	40.5	0.0942	-0.193
19_3_102	MW-10	Appendix IV	Arsenic	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00200	0.00200	0.00200	0.00200	NA	NA	NA
19_3_103	MW-10	Appendix IV	Barium	mg/l	14	0	0%	2021-06-15 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0394	0.0405	0.0300	0.0470	0.00460	0.117	-0.454
19_3_113	MW-10	Appendix IV	Fluoride (App IV)	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.0580	0.0580	0.0500	0.0660	0.0113	0.195	NA
19_3_117	MW-10	Appendix IV	Mercury	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.000200	0.000200	0.000200	0.000200	NA	NA	NA
19_3_121	MW-10	Appendix IV	Radium-226+228	pci/l	14	0	0%	2021-06-15 to 2025-02-05	Lognormal	Lognormal	1.28	0.686	0.262	3.30	1.06	0.832	0.902
19_3_122	MW-10	Appendix IV	Selenium	mg/l	14	13	93%	2021-06-15 to 2025-02-05		Nonparametric	0.00150	0.00150	0.00150	0.00150	NA	NA	NA
19_5_129	MW-10	Part 115	Zinc	mg/l	14	12	86%	2021-06-15 to 2025-02-05		Nonparametric	0.0145	0.0145	0.00900	0.0200	0.00778	0.536	NA
20_2_105	MW-13	Appendix III	Boron	mg/l	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.172	0.170	0.140	0.220	0.0224	0.130	0.447
20_2_107	MW-13	Appendix III	Calcium	mg/l	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	121	124	94.1	158	23.3	0.193	0.334
20_2_108	MW-13	Appendix III	Chloride	mg/l	13	2	15%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	22.8	20.0	9.00	45.0	12.3	0.541	0.913
20_2_112	MW-13	Appendix III	Fluoride	mg/l	13	12	92%	2022-02-23 to 2025-02-06		Nonparametric	0.140	0.140	0.140	0.140	NA	NA	NA
20_2_120	MW-13	Appendix III	pH, Field	su	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	6.97	7.04	6.39	7.25	0.228	0.0328	-1.42
20_2_124	MW-13	Appendix III	Sulfate	mg/l	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal	Gamma	60.0	37.0	16.0	174	48.7	0.812	1.33
20_2_126	MW-13	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	455	430	336	642	99.5	0.219	0.904
20_3_102	MW-13	Appendix IV	Arsenic	mg/l	13	9	69%	2022-02-23 to 2025-02-06		Nonparametric	0.00617	0.00635	0.00400	0.00800	0.00173	0.280	-0.485
20_3_103	MW-13	Appendix IV	Barium	mg/l	13	0	0%	2022-02-23 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0300	0.0280	0.0200	0.0440	0.00648	0.216	0.745
20_3_110	MW-13	Appendix IV	Cobalt	mg/l	13	12	92%	2022-02-23 to 2025-02-06		Nonparametric	0.000910	0.000910	0.000910	0.000910	NA	NA	NA
20_3_113	MW-13	Appendix IV	Fluoride (App IV)	mg/l	13	12	92%	2022-02-23 to 2025-02-06		Nonparametric	0.140	0.140	0.140	0.140	NA	NA	NA
20_3_121	MW-13	Appendix IV	Radium-226+228	pci/l	13	1	8%	2022-02-23 to 2025-02-06	Gamma; Lognormal	Gamma	1.03	0.546	0.0699	2.31	0.885	0.861	0.392
20_5_114	MW-13	Part 115	Iron	mg/l	13	1	8%	2022-02-23 to 2025-02-06	Lognormal	Nonparametric	0.304	0.0500	0.0200	1.20	0.459	1.51	1.36
20_5_129	MW-13	Part 115	Zinc	mg/l	13	11	85%	2022-02-23 to 2025-02-06		Nonparametric	0.00665	0.00665	0.00330	0.0100	0.00474	0.712	NA
21_2_105	MW-14	Appendix III	Boron	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	2.12	2.14	1.96	2.29	0.103	0.0487	-0.0872
21_2_107	MW-14	Appendix III	Calcium	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	151	147	141	173	9.88	0.0654	1.24
21_2_108	MW-14	Appendix III	Chloride	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	113	114	100	119	5.20	0.0462	-1.40

(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
21_2_112	MW-14	Appendix III	Fluoride	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.150	0.150	0.150	0.150	NA	NA	NA
21_2_120	MW-14	Appendix III	pH, Field	su	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	7.02	7.04	6.92	7.13	0.0669	0.00953	0.159
21_2_124	MW-14	Appendix III	Sulfate	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Nonparametric	Nonparametric	82.6	17.0	5.90	748	221	2.67	3.31
21_2_126	MW-14	Appendix III	Total Dissolved Solids	mg/l	11	1	9%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	792	794	732	866	37	0.0467	0.322
21_3_102	MW-14	Appendix IV	Arsenic	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.00622	0.00600	0.00400	0.00800	0.00125	0.201	-0.143
21_3_103	MW-14	Appendix IV	Barium	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Nonparametric	Nonparametric	0.133	0.131	0.119	0.177	0.0160	0.120	2.42
21_3_110	MW-14	Appendix IV	Cobalt	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.000690	0.000690	0.000690	0.000690	NA	NA	NA
21_3_113	MW-14	Appendix IV	Fluoride (App IV)	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.150	0.150	0.150	0.150	NA	NA	NA
21_3_116	MW-14	Appendix IV	Lithium	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.110	0.109	0.0990	0.125	0.00765	0.0692	0.661
21_3_118	MW-14	Appendix IV	Molybdenum	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0134	0.0130	0.0120	0.0160	0.00136	0.102	0.641
21_3_121	MW-14	Appendix IV	Radium-226+228	pci/l	11	1	9%	2023-01-12 to 2025-02-04	Lognormal	Lognormal	1.95	0.973	0.464	6.88	2.07	1.06	1.96
21_3_122	MW-14	Appendix IV	Selenium	mg/l	11	9	82%	2023-01-12 to 2025-02-04		Nonparametric	0.0110	0.0110	0.00900	0.0130	0.00283	0.257	NA
21_5_114	MW-14	Part 115	Iron	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	11.7	11.5	6.58	15.0	2.50	0.213	-0.578
21_5_119	MW-14	Part 115	Nickel	mg/l	11	6	55%	2023-01-12 to 2025-02-04		Nonparametric	0.00496	0.00500	0.00380	0.00600	0.000780	0.157	-0.383
21_5_128	MW-14	Part 115	Vanadium	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.00190	0.00190	0.00190	0.00190	NA	NA	NA
21_5_129	MW-14	Part 115	Zinc	mg/l	11	9	82%	2023-01-12 to 2025-02-04		Nonparametric	0.0210	0.0210	0.0180	0.0240	0.00424	0.202	NA
22_2_105	MW-15	Appendix III	Boron	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.371	0.370	0.300	0.440	0.0425	0.115	-0.0196
22_2_107	MW-15	Appendix III	Calcium	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	136	133	104	183	20.8	0.153	0.897
22_2_108	MW-15	Appendix III	Chloride	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	75.1	73.0	59.0	100	12.6	0.168	0.687
22_2_112	MW-15	Appendix III	Fluoride	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.0470	0.0470	0.0470	0.0470	NA	NA	NA
22_2_120	MW-15	Appendix III	pH, Field	su	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	6.81	6.83	6.68	6.99	0.116	0.0170	0.372
22_2_124	MW-15	Appendix III	Sulfate	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Nonparametric	Nonparametric	119	110	49.7	238	45	0.377	1.77
22_2_126	MW-15	Appendix III	Total Dissolved Solids	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	643	638	528	878	93.7	0.146	1.55
22_3_102	MW-15	Appendix IV	Arsenic	mg/l	11	9	82%	2023-01-12 to 2025-02-04		Nonparametric	0.00148	0.00148	0.000970	0.00200	0.000728	0.490	NA
22_3_103	MW-15	Appendix IV	Barium	mg/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0576	0.0580	0.0420	0.0770	0.0105	0.182	0.365
22_3_113	MW-15	Appendix IV	Fluoride (App IV)	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.0470	0.0470	0.0470	0.0470	NA	NA	NA
22_3_116	MW-15	Appendix IV	Lithium	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.0140	0.0140	0.0140	0.0140	NA	NA	NA
22_3_121	MW-15	Appendix IV	Radium-226+228	pci/l	11	0	0%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	1.12	0.921	0.316	2.06	0.641	0.573	0.366
22_3_122	MW-15	Appendix IV	Selenium	mg/l	11	4	36%	2023-01-12 to 2025-02-04	Gamma; Lognormal; Normal	Normal	0.0186	0.0190	0.00900	0.0340	0.00932	0.502	0.621
22_5_114	MW-15	Part 115	Iron	mg/l	11	1	9%	2023-01-12 to 2025-02-04	Gamma; Lognormal	Gamma	0.103	0.0800	0.0200	0.380	0.107	1.04	2.23
22_5_129	MW-15	Part 115	Zinc	mg/l	11	10	91%	2023-01-12 to 2025-02-04		Nonparametric	0.0210	0.0210	0.0210	0.0210	NA	NA	NA
23_2_105	MW-16A	Appendix III	Boron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.170	0.175	0.100	0.250	0.0543	0.319	-0.131
23_2_107	MW-16A	Appendix III	Calcium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	187	188	145	226	26.8	0.143	-0.206
23_2_108	MW-16A	Appendix III	Chloride	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	442	442	383	505	42.1	0.0953	0.0435
23_2_112	MW-16A	Appendix III	Fluoride	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.0980	0.0980	0.0980	0.0980	NA	NA	NA
23_2_120	MW-16A	Appendix III	pH, Field	su	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	6.84	6.82	6.72	7.00	0.0969	0.0142	0.571
23_2_124	MW-16A	Appendix III	Sulfate	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	193	193	86.0	341	80.0	0.415	0.274
23_2_126	MW-16A	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	1443	1445	1170	1720	182	0.126	-0.175
23_3_102	MW-16A	Appendix IV	Arsenic	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Lognormal; Normal	Normal	0.00323	0.00300	0.00180	0.00500	0.000894	0.276	0.301
23_3_103	MW-16A	Appendix IV	Barium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.147	0.152	0.108	0.178	0.0228	0.155	-0.259
23_3_110	MW-16A	Appendix IV	Cobalt	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00120	0.00120	0.00120	0.00120	NA	NA	NA
23_3_113	MW-16A	Appendix IV	Fluoride (App IV)	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.0980	0.0980	0.0980	0.0980	NA	NA	NA
23_3_116	MW-16A	Appendix IV	Lithium	mg/l	12	10	83%	2023-02-02 to 2025-02-06		Nonparametric	0.00425	0.00425	0.00350	0.00500	0.00106	0.250	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
23_3_118	MW-16A	Appendix IV	Molybdenum	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00170	0.00170	0.00170	0.00170	NA	NA	NA
23_3_121	MW-16A	Appendix IV	Radium-226+228	pci/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Gamma	2.09	1.20	0.562	7.46	2.03	0.973	1.87
23_3_122	MW-16A	Appendix IV	Selenium	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00500	0.00500	0.00500	0.00500	NA	NA	NA
23_5_114	MW-16A	Part 115	Iron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	3.28	3.12	2.59	4.38	0.591	0.180	0.690
23_5_119	MW-16A	Part 115	Nickel	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00150	0.00150	0.00150	0.00150	NA	NA	NA
24_2_105	MW-16B	Appendix III	Boron	mg/l	12	0	0%	2023-02-02 to 2025-02-06		Nonparametric	0.117	0.115	0.110	0.130	0.00778	0.0667	0.719
24_2_107	MW-16B	Appendix III	Calcium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	80.8	81.2	74.5	85.4	3.17	0.0392	-0.495
24_2_108	MW-16B	Appendix III	Chloride	mg/l	12	5	42%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Gamma	4.74	3.70	2.80	11.0	2.85	0.601	2.32
24_2_112	MW-16B	Appendix III	Fluoride	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.703	0.750	0.310	1.00	0.290	0.413	-0.909
24_2_120	MW-16B	Appendix III	pH, Field	su	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	7.42	7.44	7.25	7.56	0.0859	0.0116	-0.660
24_2_124	MW-16B	Appendix III	Sulfate	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	17.6	17.6	15.0	21.0	1.65	0.0939	0.635
24_2_126	MW-16B	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	365	366	350	378	8.63	0.0237	-0.445
24_3_103	MW-16B	Appendix IV	Barium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0868	0.0860	0.0820	0.0910	0.00269	0.0310	-0.0230
24_3_113	MW-16B	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.703	0.750	0.310	1.00	0.290	0.413	-0.909
24_3_116	MW-16B	Appendix IV	Lithium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0212	0.0210	0.0190	0.0230	0.00127	0.0599	-0.0476
24_3_118	MW-16B	Appendix IV	Molybdenum	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Nonparametric	Nonparametric	0.00618	0.00600	0.00500	0.00800	0.000716	0.116	1.44
24_3_121	MW-16B	Appendix IV	Radium-226+228	pci/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Gamma	2.40	1.94	1.04	6.43	1.49	0.620	2.11
24_3_122	MW-16B	Appendix IV	Selenium	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00600	0.00600	0.00600	0.00600	NA	NA	NA
24_5_114	MW-16B	Part 115	Iron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Lognormal	Lognormal	0.496	0.425	0.330	0.930	0.169	0.340	1.81
30_2_105	MW-100A	Appendix III	Boron	mg/l	10	1	10%	2023-06-05 to 2025-02-05		Nonparametric	0.0478	0.0500	0.0400	0.0500	0.00441	0.0923	-1.62
30_2_107	MW-100A	Appendix III	Calcium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	92.0	92.2	88.6	95.3	2.07	0.0225	-0.367
30_2_108	MW-100A	Appendix III	Chloride	mg/l	10	0	0%	2023-06-05 to 2025-02-05		Nonparametric	10.1	10.0	10.0	10.6	0.210	0.0207	1.66
30_2_112	MW-100A	Appendix III	Fluoride	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.397	0.400	0.220	0.570	0.175	0.441	-0.0857
30_2_120	MW-100A	Appendix III	pH, Field	su	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.27	7.29	7.08	7.40	0.0946	0.0130	-0.637
30_2_124	MW-100A	Appendix III	Sulfate	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	24.5	21.9	16.2	38.0	7.19	0.293	0.947
30_2_126	MW-100A	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Normal	Normal	410	414	360	434	19.6	0.0479	-1.98
30_3_102	MW-100A	Appendix IV	Arsenic	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0140	0.0145	0.00900	0.0180	0.00291	0.208	-0.543
30_3_103	MW-100A	Appendix IV	Barium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.199	0.201	0.189	0.207	0.00713	0.0358	-0.521
30_3_110	MW-100A	Appendix IV	Cobalt	mg/l	10	9	90%	2023-06-05 to 2025-02-05		Nonparametric	0.000330	0.000330	0.000330	0.000330	NA	NA	NA
30_3_113	MW-100A	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.397	0.400	0.220	0.570	0.175	0.441	-0.0857
30_3_116	MW-100A	Appendix IV	Lithium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0159	0.0165	0.0110	0.0200	0.00303	0.191	-0.358
30_3_118	MW-100A	Appendix IV	Molybdenum	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0102	0.0105	0.00690	0.0130	0.00211	0.208	-0.261
30_3_121	MW-100A	Appendix IV	Radium-226+228	pci/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.13	0.979	0.402	2.50	0.740	0.655	0.931
30_5_114	MW-100A	Part 115	Iron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Normal	Normal	2.51	2.57	0.630	3.75	0.960	0.383	-0.826
30_5_129	MW-100A	Part 115	Zinc	mg/l	10	8	80%	2023-06-05 to 2025-02-05		Nonparametric	0.00440	0.00440	0.00280	0.00600	0.00226	0.514	NA
31_2_105	MW-100B	Appendix III	Boron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.253	0.255	0.210	0.300	0.0283	0.112	0.171
31_2_107	MW-100B	Appendix III	Calcium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	97.8	97.3	89.0	108	5.22	0.0534	0.413
31_2_108	MW-100B	Appendix III	Chloride	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	22.7	23.4	19.0	25.0	2.19	0.0966	-0.960
31_2_112	MW-100B	Appendix III	Fluoride	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.297	0.300	0.150	0.440	0.145	0.489	-0.103
31_2_120	MW-100B	Appendix III	pH, Field	su	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.43	7.41	7.33	7.62	0.0989	0.0133	1.04
31_2_124	MW-100B	Appendix III	Sulfate	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	115	111	105	136	9.68	0.0843	1.38
31_2_126	MW-100B	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	499	494	440	538	28.4	0.0569	-0.606
31_3_102	MW-100B	Appendix IV	Arsenic	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Nonparametric	Nonparametric	0.0100	0.0100	0.00730	0.0110	0.00117	0.116	-1.55

(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
31_3_103	MW-100B	Appendix IV	Barium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.149	0.147	0.140	0.164	0.00785	0.0525	0.727
31_3_113	MW-100B	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.297	0.300	0.150	0.440	0.145	0.489	-0.103
31_3_116	MW-100B	Appendix IV	Lithium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0176	0.0175	0.0160	0.0190	0.000966	0.0549	0.111
31_3_118	MW-100B	Appendix IV	Molybdenum	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Lognormal; Normal	Normal	0.00865	0.00900	0.00600	0.0110	0.00149	0.172	-0.551
31_3_121	MW-100B	Appendix IV	Radium-226+228	pci/l	10	1	10%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.39	1.51	0.494	2.16	0.601	0.433	-0.457
31_5_114	MW-100B	Part 115	Iron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	2.51	2.38	1.77	3.54	0.480	0.191	0.926
31_5_129	MW-100B	Part 115	Zinc	mg/l	10	9	90%	2023-06-05 to 2025-02-05		Nonparametric	0.00190	0.00190	0.00190	0.00190	NA	NA	NA

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded

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_105	MW-2	Appendix III	Boron	mg/l	17	0	0%	0.933	0.241	0.115	0.792	0.921	0.151	0.131	0.606	0.127	>= 0.10	0.425	>= 0.10	0.215	Gamma; Lognormal; Normal	Normal
11_2_107	MW-2	Appendix III	Calcium	mg/l	17	0	0%	0.846	0.009	0.206	0.054	0.840	0.008	0.219	0.029	0.223	0.01 <= p < 0.05	1.174	< 0.01	0.139	Normal	Normal
11_2_108	MW-2	Appendix III	Chloride	mg/l	17	0	0%	0.941	0.332	0.144	0.453	0.918	0.136	0.163	0.267	0.161	>= 0.10	0.576	>= 0.10	0.123	Gamma; Lognormal; Normal	Normal
11_2_112	MW-2	Appendix III	Fluoride	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_120	MW-2	Appendix III	pH, Field	su	18	0	0%	0.955	0.509	0.122	0.684	0.952	0.456	0.124	0.652	0.119	>= 0.10	0.273	>= 0.10	0.013	Gamma; Lognormal; Normal	Normal
11_2_124	MW-2	Appendix III	Sulfate	mg/l	17	0	0%	0.916	0.128	0.175	0.180	0.907	0.090	0.197	0.079	0.197	0.05 <= p < 0.10	0.588	>= 0.10	0.321	Gamma; Lognormal; Normal	Normal
11_2_126	MW-2	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	0.923	0.169	0.146	0.437	0.919	0.140	0.155	0.343	0.161	>= 0.10	0.576	>= 0.10	0.149	Gamma; Lognormal; Normal	Normal
11_3_101	MW-2	Appendix IV	Antimony	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_102	MW-2	Appendix IV	Arsenic	mg/l	18	15	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.348		Nonparametric
11_3_103	MW-2	Appendix IV	Barium	mg/l	18	0	0%	0.971	0.820	0.098	0.919	0.968	0.765	0.114	0.776	0.105	>= 0.10	0.241	>= 0.10	0.096	Gamma; Lognormal; Normal	Normal
11_3_104	MW-2	Appendix IV	Beryllium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_106	MW-2	Appendix IV	Cadmium	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_109	MW-2	Appendix IV	Chromium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_110	MW-2	Appendix IV	Cobalt	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_113	MW-2	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_115	MW-2	Appendix IV	Lead	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_116	MW-2	Appendix IV	Lithium	mg/l	18	0	0%	0.960	0.598	0.098	0.918	0.945	0.348	0.116	0.750	0.114	>= 0.10	0.315	>= 0.10	0.172	Gamma; Lognormal; Normal	Normal
11_3_117	MW-2	Appendix IV	Mercury	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_118	MW-2	Appendix IV	Molybdenum	mg/l	18	0	0%	0.972	0.842	0.146	0.396	0.959	0.579	0.175	0.153	0.156	>= 0.10	0.348	>= 0.10	0.188	Gamma; Lognormal; Normal	Normal
11_3_121	MW-2	Appendix IV	Radium-226+228	pci/l	18	1	6%	0.881	0.033	0.158	0.317	NA	NA	NA	NA	NA		NA		NA	Normal	Normal
11_3_122	MW-2	Appendix IV	Selenium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_125	MW-2	Appendix IV	Thallium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_5_111	MW-2	Part 115	Copper	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_5_114	MW-2	Part 115	Iron	mg/l	18	0	0%	0.794	0.001	0.250	0.004	0.958	0.566	0.159	0.263	0.193	0.05 <= p < 0.10	0.606	>= 0.10	0.483	Gamma; Lognormal	Gamma
11_5_119	MW-2	Part 115	Nickel	mg/l	18	0	0%	0.904	0.066	0.195	0.070	0.885	0.032	0.198	0.062	0.203	0.01 <= p < 0.05	0.770	0.01 <= p < 0.05	0.248	Lognormal; Normal	Normal
11_5_123	MW-2	Part 115	Silver	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_5_128	MW-2	Part 115	Vanadium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_5_129	MW-2	Part 115	Zinc	mg/l	18	14	78%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.261		Nonparametric
12_2_105	MW-3	Appendix III	Boron	mg/l	9	0	0%	0.916	0.361	0.256	0.092	0.924	0.428	0.248	0.113	0.249	>= 0.10	0.425	>= 0.10	0.042	Gamma; Lognormal; Normal	Normal
12_2_107	MW-3	Appendix III	Calcium	mg/l	9	0	0%	0.899	0.245	0.179	0.554	0.891	0.204	0.179	0.553	0.194	>= 0.10	0.471	>= 0.10	0.049	Gamma; Lognormal; Normal	Normal
12_2_108	MW-3	Appendix III	Chloride	mg/l	9	0	0%	0.936	0.539	0.203	0.356	0.932	0.505	0.208	0.316	0.216	>= 0.10	0.341	>= 0.10	0.051	Gamma; Lognormal; Normal	Normal
12_2_112	MW-3	Appendix III	Fluoride	mg/l	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_120	MW-3	Appendix III	pH, Field	su	9	0	0%	0.977	0.944	0.124	0.957	0.978	0.951	0.122	0.962	0.119	>= 0.10	0.164	>= 0.10	0.010	Gamma; Lognormal; Normal	Normal
12_2_124	MW-3	Appendix III	Sulfate	mg/l	9	0	0%	0.901	0.256	0.207	0.320	0.904	0.274	0.207	0.324	0.220	>= 0.10	0.464	>= 0.10	0.030	Gamma; Lognormal; Normal	Normal
12_2_126	MW-3	Appendix III	Total Dissolved Solids	mg/l	9	0	0%	0.664	0.001	0.394	0.000	0.641	0.000	0.405	0.000	0.402	< 0.01	1.414	< 0.01	0.067	Nonparametric	Nonparametric
12_3_101	MW-3	Appendix IV	Antimony	mg/l	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_3_102	MW-3	Appendix IV	Arsenic	mg/l	9	0	0%	0.620	0.000	0.427	0.000	0.678	0.001	0.422	0.000	0.434	< 0.01	1.580	< 0.01	0.251	Nonparametric	Nonparametric
12_3_103	MW-3	Appendix IV	Barium	mg/l	9	0	0%	0.915	0.350	0.216	0.261	0.911	0.322	0.232	0.176	0.231	>= 0.10	0.440	>= 0.10	0.097	Gamma; Lognormal; Normal	Normal
12_3_104	MW-3	Appendix IV	Beryllium	mg/l	9	9	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
12_3_106	MW-3	Appendix IV	Cadmium	mg/l	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_109	MW-3	Appendix IV	Chromium	mg/l	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_110	MW-3	Appendix IV	Cobalt	mg/l	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_113	MW-3	Appendix IV	Fluoride (App IV)	mg/l	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_115	MW-3	Appendix IV	Lead	mg/l	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_116	MW-3	Appendix IV	Lithium	mg/l	9	0	0%	0.931	0.487	0.143	0.858	0.935	0.534	0.144	0.851	0.155	>= 0.10	0.294	>= 0.10	0.067	Gamma; Lognormal; Normal	
12_3_117	MW-3	Appendix IV	Mercury	mg/l	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_118	MW-3	Appendix IV	Molybdenum	mg/l	9	0	0%	0.944	0.628	0.180	0.544	0.952	0.716	0.169	0.647	0.167	>= 0.10	0.274	>= 0.10	0.063	Gamma; Lognormal; Normal	
12_3_121	MW-3	Appendix IV	Radium-226+228	pci/l	9	1	11%	0.912	0.370	0.268	0.093	0.939	0.599	0.171	0.703	0.212	>= 0.10	0.329	>= 0.10	0.642	Gamma; Lognormal; Normal	
12_3_122	MW-3	Appendix IV	Selenium	mg/l	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_125	MW-3	Appendix IV	Thallium	mg/l	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_5_111	MW-3	Part 115	Copper	mg/l	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_5_114	MW-3	Part 115	Iron	mg/l	9	0	0%	0.924	0.423	0.156	0.765	0.918	0.373	0.162	0.712	0.174	>= 0.10	0.360	>= 0.10	0.108	Gamma; Lognormal; Normal	
12_5_119	MW-3	Part 115	Nickel	mg/l	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_5_123	MW-3	Part 115	Silver	mg/l	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_5_128	MW-3	Part 115	Vanadium	mg/l	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_5_129	MW-3	Part 115	Zinc	mg/l	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_2_105	MW-5	Appendix III	Boron	mg/l	17	0	0%	0.852	0.011	0.181	0.146	0.566	0.000	0.280	0.001	0.220	0.01 <= p < 0.05	1.839	< 0.01	0.623	Normal	
13_2_107	MW-5	Appendix III	Calcium	mg/l	17	0	0%	0.979	0.948	0.132	0.603	0.878	0.030	0.195	0.086	0.178	>= 0.10	0.420	>= 0.10	0.378	Gamma; Lognormal; Normal	
13_2_108	MW-5	Appendix III	Chloride	mg/l	17	0	0%	0.883	0.036	0.221	0.027	0.846	0.009	0.261	0.003	0.252	< 0.01	0.972	0.01 <= p < 0.05	0.303	Nonparametric	
13_2_112	MW-5	Appendix III	Fluoride	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_2_120	MW-5	Appendix III	pH, Field	su	18	0	0%	0.675	0.000	0.247	0.005	0.656	0.000	0.258	0.003	0.247	< 0.01	1.929	< 0.01	0.034	Nonparametric	
13_2_124	MW-5	Appendix III	Sulfate	mg/l	17	0	0%	0.955	0.538	0.135	0.569	0.939	0.306	0.196	0.081	0.168	>= 0.10	0.395	>= 0.10	0.509	Gamma; Lognormal; Normal	
13_2_126	MW-5	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	0.954	0.528	0.148	0.418	0.939	0.304	0.172	0.203	0.155	>= 0.10	0.421	>= 0.10	0.357	Gamma; Lognormal; Normal	
13_3_101	MW-5	Appendix IV	Antimony	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_102	MW-5	Appendix IV	Arsenic	mg/l	18	12	67%	0.912	0.452	0.172	0.833	0.929	0.573	0.193	0.690	0.206	>= 0.10	0.279	>= 0.10	0.505	Gamma; Lognormal; Normal	
13_3_103	MW-5	Appendix IV	Barium	mg/l	18	0	0%	0.922	0.141	0.189	0.088	0.953	0.470	0.158	0.273	0.168	>= 0.10	0.506	>= 0.10	0.166	Gamma; Lognormal; Normal	
13_3_104	MW-5	Appendix IV	Beryllium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_106	MW-5	Appendix IV	Cadmium	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_109	MW-5	Appendix IV	Chromium	mg/l	18	15	83%	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.047	Nonparametric		
13_3_110	MW-5	Appendix IV	Cobalt	mg/l	18	16	89%	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.605	Nonparametric		
13_3_113	MW-5	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_115	MW-5	Appendix IV	Lead	mg/l	18	14	78%	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.253	Nonparametric		
13_3_116	MW-5	Appendix IV	Lithium	mg/l	18	0	0%	0.878	0.025	0.153	0.319	0.673	0.000	0.202	0.050	0.174	>= 0.10	1.295	< 0.01	0.392	Gamma; Lognormal; Normal	
13_3_117	MW-5	Appendix IV	Mercury	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_118	MW-5	Appendix IV	Molybdenum	mg/l	18	0	0%	0.973	0.858	0.144	0.421	0.809	0.002	0.242	0.006	0.209	0.01 <= p < 0.05	0.618	>= 0.10	0.495	Gamma; Normal	
13_3_121	MW-5	Appendix IV	Radium-226+228	pci/l	18	1	6%	0.825	0.004	0.282	0.001	0.946	0.394	0.172	0.197	0.205	0.05 <= p < 0.10	0.507	>= 0.10	0.597	Gamma; Lognormal	
13_3_122	MW-5	Appendix IV	Selenium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_125	MW-5	Appendix IV	Thallium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal		Lognormal				Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution		
								S-W		Lilliefors		S-W		Lilliefors		K-S					A-D	
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value				Stat.	p-Value
13_5_111	MW-5	Part 115	Copper	mg/l	18	13	72%	0.917	0.511	0.232	0.508	0.961	0.816	0.187	0.819	0.205	>= 0.10	0.237	>= 0.10	0.945	Gamma; Lognormal; Normal	Nonparametric
13_5_114	MW-5	Part 115	Iron	mg/l	18	1	6%	0.655	0.000	0.318	0.000	0.976	0.916	0.126	0.667	0.204	0.05 <= p < 0.10	0.579	>= 0.10	1.067	Gamma; Lognormal	Gamma
13_5_119	MW-5	Part 115	Nickel	mg/l	18	0	0%	0.950	0.432	0.124	0.654	0.959	0.586	0.154	0.311	0.129	>= 0.10	0.283	>= 0.10	0.416	Gamma; Lognormal; Normal	Normal
13_5_123	MW-5	Part 115	Silver	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_5_128	MW-5	Part 115	Vanadium	mg/l	18	14	78%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.921		Nonparametric
13_5_129	MW-5	Part 115	Zinc	mg/l	18	4	22%	0.676	0.000	0.288	0.003	0.904	0.131	0.193	0.166	0.246	0.01 <= p < 0.05	0.903	0.01 <= p < 0.05	0.992	Lognormal	Lognormal
14_2_105	MW-6	Appendix III	Boron	mg/l	17	0	0%	0.956	0.549	0.124	0.693	0.956	0.551	0.110	0.843	0.122	>= 0.10	0.255	>= 0.10	0.227	Gamma; Lognormal; Normal	Normal
14_2_107	MW-6	Appendix III	Calcium	mg/l	17	0	0%	0.926	0.185	0.142	0.479	0.926	0.186	0.144	0.462	0.146	>= 0.10	0.493	>= 0.10	0.115	Gamma; Lognormal; Normal	Normal
14_2_108	MW-6	Appendix III	Chloride	mg/l	17	0	0%	0.923	0.168	0.188	0.112	0.922	0.157	0.191	0.098	0.198	0.05 <= p < 0.10	0.649	0.05 <= p < 0.10	0.215	Gamma; Lognormal; Normal	Normal
14_2_112	MW-6	Appendix III	Fluoride	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_120	MW-6	Appendix III	pH, Field	su	18	0	0%	0.902	0.062	0.182	0.120	0.895	0.047	0.186	0.099	0.180	>= 0.10	0.801	0.01 <= p < 0.05	0.021	Gamma; Lognormal; Normal	Normal
14_2_124	MW-6	Appendix III	Sulfate	mg/l	17	0	0%	0.914	0.118	0.159	0.301	0.923	0.169	0.156	0.336	0.164	>= 0.10	0.488	>= 0.10	0.261	Gamma; Lognormal; Normal	Normal
14_2_126	MW-6	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	0.952	0.492	0.123	0.702	0.953	0.506	0.140	0.503	0.140	>= 0.10	0.360	>= 0.10	0.124	Gamma; Lognormal; Normal	Normal
14_3_101	MW-6	Appendix IV	Antimony	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_3_102	MW-6	Appendix IV	Arsenic	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_3_103	MW-6	Appendix IV	Barium	mg/l	18	0	0%	0.963	0.652	0.162	0.242	0.967	0.742	0.156	0.293	0.164	>= 0.10	0.361	>= 0.10	0.125	Gamma; Lognormal; Normal	Normal
14_3_104	MW-6	Appendix IV	Beryllium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_3_106	MW-6	Appendix IV	Cadmium	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_3_109	MW-6	Appendix IV	Chromium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_3_110	MW-6	Appendix IV	Cobalt	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_3_113	MW-6	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_3_115	MW-6	Appendix IV	Lead	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_3_116	MW-6	Appendix IV	Lithium	mg/l	18	0	0%	0.979	0.937	0.095	0.939	0.984	0.982	0.106	0.853	0.093	>= 0.10	0.182	>= 0.10	0.184	Gamma; Lognormal; Normal	Normal
14_3_117	MW-6	Appendix IV	Mercury	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_3_118	MW-6	Appendix IV	Molybdenum	mg/l	18	0	0%	0.977	0.918	0.107	0.843	0.924	0.154	0.159	0.265	0.142	>= 0.10	0.406	>= 0.10	0.269	Gamma; Lognormal; Normal	Normal
14_3_121	MW-6	Appendix IV	Radium-226+228	pci/l	18	1	6%	0.842	0.008	0.175	0.181	NA	NA	NA	NA	NA		NA		NA	Normal	Normal
14_3_122	MW-6	Appendix IV	Selenium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_3_125	MW-6	Appendix IV	Thallium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_5_111	MW-6	Part 115	Copper	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_5_114	MW-6	Part 115	Iron	mg/l	18	9	50%	0.715	0.002	0.251	0.105	0.925	0.431	0.155	0.771	0.174	>= 0.10	0.491	>= 0.10	0.743	Gamma; Lognormal; Normal	Nonparametric
14_5_119	MW-6	Part 115	Nickel	mg/l	18	5	28%	0.835	0.018	0.290	0.004	0.752	0.002	0.290	0.004	0.298	< 0.01	1.190	< 0.01	0.230	Nonparametric	Nonparametric
14_5_123	MW-6	Part 115	Silver	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_5_128	MW-6	Part 115	Vanadium	mg/l	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_5_129	MW-6	Part 115	Zinc	mg/l	18	16	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		2.003		Nonparametric
15_2_105	MW-7	Appendix III	Boron	mg/l	14	0	0%	0.962	0.757	0.145	0.587	0.940	0.425	0.184	0.226	0.165	>= 0.10	0.391	>= 0.10	0.231	Gamma; Lognormal; Normal	Normal
15_2_107	MW-7	Appendix III	Calcium	mg/l	14	0	0%	0.825	0.010	0.258	0.012	0.872	0.045	0.243	0.025	0.252	0.01 <= p < 0.05	0.851	0.01 <= p < 0.05	0.147	Nonparametric	Nonparametric
15_2_108	MW-7	Appendix III	Chloride	mg/l	14	0	0%	0.836	0.015	0.214	0.082	0.861	0.031	0.215	0.078	0.222	0.05 <= p < 0.10	0.731	0.05 <= p < 0.10	0.086	Gamma; Lognormal; Normal	Normal
15_2_112	MW-7	Appendix III	Fluoride	mg/l	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.105		Nonparametric
15_2_120	MW-7	Appendix III	pH, Field	su	14	0	0%	0.807	0.006	0.252	0.016	0.823	0.010	0.244	0.023	0.243	0.01 <= p < 0.05	0.986	0.01 <= p < 0.05	0.032	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
15_2_124	MW-7	Appendix III	Sulfate	mg/l	14	0	0%	0.822	0.010	0.197	0.149	0.863	0.033	0.183	0.227	0.185	>= 0.10	0.778	0.01 <= p < 0.05	0.141	Gamma; Lognormal; Normal	Normal
15_2_126	MW-7	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	0.720	0.001	0.321	0.000	0.766	0.002	0.293	0.002	0.301	< 0.01	1.450	< 0.01	0.122	Nonparametric	Nonparametric
15_3_101	MW-7	Appendix IV	Antimony	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_3_102	MW-7	Appendix IV	Arsenic	mg/l	14	0	0%	0.860	0.030	0.292	0.002	0.803	0.005	0.289	0.002	0.299	< 0.01	1.155	< 0.01	0.249	Nonparametric	Nonparametric
15_3_103	MW-7	Appendix IV	Barium	mg/l	14	0	0%	0.928	0.285	0.138	0.662	0.877	0.053	0.157	0.458	0.127	>= 0.10	0.467	>= 0.10	0.133	Gamma; Lognormal; Normal	Normal
15_3_104	MW-7	Appendix IV	Beryllium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_3_106	MW-7	Appendix IV	Cadmium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_3_109	MW-7	Appendix IV	Chromium	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_3_110	MW-7	Appendix IV	Cobalt	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_3_113	MW-7	Appendix IV	Fluoride (App IV)	mg/l	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.105		Nonparametric
15_3_115	MW-7	Appendix IV	Lead	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_3_116	MW-7	Appendix IV	Lithium	mg/l	14	0	0%	0.971	0.884	0.132	0.730	0.954	0.619	0.140	0.646	0.144	>= 0.10	0.305	>= 0.10	0.155	Gamma; Lognormal; Normal	Normal
15_3_117	MW-7	Appendix IV	Mercury	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_3_118	MW-7	Appendix IV	Molybdenum	mg/l	14	0	0%	0.841	0.017	0.245	0.022	0.838	0.015	0.269	0.007	0.268	< 0.01	1.041	< 0.01	0.266	Nonparametric	Nonparametric
15_3_121	MW-7	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.888	0.075	0.175	0.292	0.970	0.876	0.159	0.441	0.115	>= 0.10	0.216	>= 0.10	0.710	Gamma; Lognormal; Normal	Normal
15_3_122	MW-7	Appendix IV	Selenium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_3_125	MW-7	Appendix IV	Thallium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_5_111	MW-7	Part 115	Copper	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_5_114	MW-7	Part 115	Iron	mg/l	14	0	0%	0.796	0.004	0.282	0.004	0.918	0.204	0.217	0.072	0.235	0.01 <= p < 0.05	0.606	>= 0.10	0.282	Gamma; Lognormal	Gamma
15_5_119	MW-7	Part 115	Nickel	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_5_123	MW-7	Part 115	Silver	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_5_128	MW-7	Part 115	Vanadium	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_5_129	MW-7	Part 115	Zinc	mg/l	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.400		Nonparametric
16_2_105	MW-7C	Appendix III	Boron	mg/l	13	0	0%	0.900	0.134	0.175	0.338	0.915	0.213	0.168	0.403	0.164	>= 0.10	0.421	>= 0.10	0.039	Gamma; Lognormal; Normal	Normal
16_2_107	MW-7C	Appendix III	Calcium	mg/l	13	0	0%	0.852	0.030	0.256	0.020	0.813	0.010	0.277	0.007	0.263	0.01 <= p < 0.05	0.985	0.01 <= p < 0.05	0.095	Nonparametric	Nonparametric
16_2_108	MW-7C	Appendix III	Chloride	mg/l	13	0	0%	0.904	0.152	0.224	0.074	0.910	0.182	0.213	0.109	0.216	>= 0.10	0.687	0.05 <= p < 0.10	0.056	Gamma; Lognormal; Normal	Normal
16_2_112	MW-7C	Appendix III	Fluoride	mg/l	13	12	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_2_120	MW-7C	Appendix III	pH, Field	su	13	0	0%	0.928	0.323	0.148	0.603	0.929	0.332	0.147	0.616	0.154	>= 0.10	0.366	>= 0.10	0.013	Gamma; Lognormal; Normal	Normal
16_2_124	MW-7C	Appendix III	Sulfate	mg/l	13	0	0%	0.926	0.302	0.162	0.460	0.934	0.381	0.153	0.560	0.155	>= 0.10	0.405	>= 0.10	0.050	Gamma; Lognormal; Normal	Normal
16_2_126	MW-7C	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	0.896	0.116	0.235	0.049	0.887	0.088	0.226	0.069	0.227	0.05 <= p < 0.10	0.791	0.01 <= p < 0.05	0.053	Gamma; Lognormal; Normal	Normal
16_3_101	MW-7C	Appendix IV	Antimony	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_3_102	MW-7C	Appendix IV	Arsenic	mg/l	13	0	0%	0.769	0.003	0.267	0.012	0.840	0.021	0.259	0.017	0.269	0.01 <= p < 0.05	1.000	< 0.01	0.171	Nonparametric	Nonparametric
16_3_103	MW-7C	Appendix IV	Barium	mg/l	13	0	0%	0.957	0.704	0.136	0.739	0.958	0.718	0.126	0.828	0.133	>= 0.10	0.257	>= 0.10	0.059	Gamma; Lognormal; Normal	Normal
16_3_104	MW-7C	Appendix IV	Beryllium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_3_106	MW-7C	Appendix IV	Cadmium	mg/l	13	10	77%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.126		Nonparametric
16_3_109	MW-7C	Appendix IV	Chromium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_3_110	MW-7C	Appendix IV	Cobalt	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_3_113	MW-7C	Appendix IV	Fluoride (App IV)	mg/l	13	12	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_3_115	MW-7C	Appendix IV	Lead	mg/l	13	13	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
16_3_116	MW-7C	Appendix IV	Lithium	mg/l	13	0	0%	0.950	0.605	0.191	0.220	0.940	0.457	0.202	0.155	0.194	>= 0.10	0.345	>= 0.10	0.059	Gamma; Lognormal; Normal	Normal
16_3_117	MW-7C	Appendix IV	Mercury	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
16_3_118	MW-7C	Appendix IV	Molybdenum	mg/l	13	0	0%	0.950	0.604	0.113	0.923	0.938	0.430	0.117	0.898	0.123	>= 0.10	0.287	>= 0.10	0.050	Gamma; Lognormal; Normal	Normal
16_3_121	MW-7C	Appendix IV	Radium-226+228	pci/l	13	0	0%	0.878	0.068	0.179	0.307	0.918	0.237	0.169	0.390	0.183	>= 0.10	0.441	>= 0.10	0.566	Gamma; Lognormal; Normal	Normal
16_3_122	MW-7C	Appendix IV	Selenium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
16_3_125	MW-7C	Appendix IV	Thallium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
16_5_111	MW-7C	Part 115	Copper	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
16_5_114	MW-7C	Part 115	Iron	mg/l	13	0	0%	0.949	0.590	0.133	0.761	0.948	0.575	0.139	0.702	0.143	>= 0.10	0.323	>= 0.10	0.060	Gamma; Lognormal; Normal	Normal
16_5_119	MW-7C	Part 115	Nickel	mg/l	13	0	0%	0.835	0.018	0.244	0.033	0.861	0.040	0.238	0.043	0.242	0.01 <= p < 0.05	0.971	0.01 <= p < 0.05	0.126	Nonparametric	Nonparametric
16_5_123	MW-7C	Part 115	Silver	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
16_5_128	MW-7C	Part 115	Vanadium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
16_5_129	MW-7C	Part 115	Zinc	mg/l	13	11	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.138	Nonparametric	
17_2_105	MW-8	Appendix III	Boron	mg/l	14	1	7%	0.837	0.019	0.221	0.083	0.941	0.474	0.228	0.064	0.200	>= 0.10	0.522	>= 0.10	0.439	Gamma; Lognormal; Normal	Normal
17_2_107	MW-8	Appendix III	Calcium	mg/l	14	0	0%	0.959	0.703	0.119	0.856	0.958	0.684	0.123	0.819	0.129	>= 0.10	0.242	>= 0.10	0.057	Gamma; Lognormal; Normal	Normal
17_2_108	MW-8	Appendix III	Chloride	mg/l	14	2	14%	0.833	0.023	0.224	0.099	0.967	0.877	0.139	0.756	0.165	>= 0.10	0.358	>= 0.10	0.824	Gamma; Lognormal; Normal	Normal
17_2_112	MW-8	Appendix III	Fluoride	mg/l	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.059	Nonparametric	
17_2_120	MW-8	Appendix III	pH, Field	su	14	0	0%	0.721	0.001	0.246	0.022	0.736	0.001	0.240	0.029	0.241	0.01 <= p < 0.05	1.176	< 0.01	0.027	Nonparametric	Nonparametric
17_2_124	MW-8	Appendix III	Sulfate	mg/l	14	0	0%	0.892	0.086	0.159	0.436	0.954	0.626	0.131	0.746	0.152	>= 0.10	0.299	>= 0.10	0.502	Gamma; Lognormal; Normal	Normal
17_2_126	MW-8	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	0.884	0.066	0.196	0.153	0.902	0.122	0.182	0.235	0.186	>= 0.10	0.550	>= 0.10	0.070	Gamma; Lognormal; Normal	Normal
17_3_101	MW-8	Appendix IV	Antimony	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_3_102	MW-8	Appendix IV	Arsenic	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_3_103	MW-8	Appendix IV	Barium	mg/l	14	0	0%	0.927	0.275	0.196	0.154	0.941	0.435	0.198	0.145	0.188	>= 0.10	0.511	>= 0.10	0.139	Gamma; Lognormal; Normal	Normal
17_3_104	MW-8	Appendix IV	Beryllium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_3_106	MW-8	Appendix IV	Cadmium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_3_109	MW-8	Appendix IV	Chromium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_3_110	MW-8	Appendix IV	Cobalt	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_3_113	MW-8	Appendix IV	Fluoride (App IV)	mg/l	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.059	Nonparametric	
17_3_115	MW-8	Appendix IV	Lead	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_3_116	MW-8	Appendix IV	Lithium	mg/l	14	6	43%	0.923	0.456	0.141	0.913	0.934	0.554	0.189	0.548	0.185	>= 0.10	0.303	>= 0.10	0.345	Gamma; Lognormal; Normal	Normal
17_3_117	MW-8	Appendix IV	Mercury	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_3_118	MW-8	Appendix IV	Molybdenum	mg/l	14	11	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.480	Nonparametric	
17_3_121	MW-8	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.873	0.047	0.193	0.169	0.957	0.680	0.138	0.663	0.180	>= 0.10	0.228	>= 0.10	1.083	Gamma; Lognormal; Normal	Gamma
17_3_122	MW-8	Appendix IV	Selenium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_3_125	MW-8	Appendix IV	Thallium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_5_111	MW-8	Part 115	Copper	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_5_114	MW-8	Part 115	Iron	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_5_119	MW-8	Part 115	Nickel	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_5_123	MW-8	Part 115	Silver	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	
17_5_128	MW-8	Part 115	Vanadium	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric	

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded (*continued*)

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal				Lognormal				Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value			
17_5_129	MW-8	Part 115	Zinc	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_2_105	MW-9	Appendix III	Boron	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_2_107	MW-9	Appendix III	Calcium	mg/l	14	0	0%	0.872	0.044	0.274	0.005	0.899	0.108	0.244	0.023	0.253	0.01 <= p < 0.05	0.696	0.05 <= p < 0.10	0.156	Gamma; Lognormal	Gamma
18_2_108	MW-9	Appendix III	Chloride	mg/l	14	10	71%	NA	NA	NA	NA	NA	NA	NA	NA			NA		0.796	Nonparametric	
18_2_112	MW-9	Appendix III	Fluoride	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_2_120	MW-9	Appendix III	pH, Field	su	14	0	0%	0.915	0.186	0.177	0.277	0.922	0.236	0.173	0.309	0.175	>= 0.10	0.399	>= 0.10	0.024	Gamma; Lognormal; Normal	Normal
18_2_124	MW-9	Appendix III	Sulfate	mg/l	14	8	57%	0.909	0.429	0.238	0.356	0.917	0.481	0.248	0.295	0.256	>= 0.10	0.378	>= 0.10	0.599	Gamma; Lognormal; Normal	Nonparametric
18_2_126	MW-9	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	0.808	0.006	0.220	0.064	0.834	0.013	0.196	0.152	0.199	>= 0.10	1.012	< 0.01	0.148	Gamma; Lognormal; Normal	Normal
18_3_101	MW-9	Appendix IV	Antimony	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_102	MW-9	Appendix IV	Arsenic	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_103	MW-9	Appendix IV	Barium	mg/l	14	0	0%	0.860	0.031	0.200	0.134	0.887	0.073	0.175	0.291	0.182	>= 0.10	0.583	>= 0.10	0.128	Gamma; Lognormal; Normal	Normal
18_3_104	MW-9	Appendix IV	Beryllium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_106	MW-9	Appendix IV	Cadmium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_109	MW-9	Appendix IV	Chromium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_110	MW-9	Appendix IV	Cobalt	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_113	MW-9	Appendix IV	Fluoride (App IV)	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_115	MW-9	Appendix IV	Lead	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_116	MW-9	Appendix IV	Lithium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_117	MW-9	Appendix IV	Mercury	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_118	MW-9	Appendix IV	Molybdenum	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_121	MW-9	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.916	0.190	0.165	0.380	NA	NA	NA	NA			NA		NA	Normal	
18_3_122	MW-9	Appendix IV	Selenium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_3_125	MW-9	Appendix IV	Thallium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_5_111	MW-9	Part 115	Copper	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_5_114	MW-9	Part 115	Iron	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_5_119	MW-9	Part 115	Nickel	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_5_123	MW-9	Part 115	Silver	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_5_128	MW-9	Part 115	Vanadium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
18_5_129	MW-9	Part 115	Zinc	mg/l	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA			NA		1.425	Nonparametric	
19_2_105	MW-10	Appendix III	Boron	mg/l	14	1	7%	0.867	0.048	0.302	0.002	0.873	0.057	0.277	0.007	0.288	< 0.01	0.946	0.01 <= p < 0.05	0.158	Lognormal	Lognormal
19_2_107	MW-10	Appendix III	Calcium	mg/l	14	0	0%	0.946	0.506	0.160	0.429	0.945	0.483	0.159	0.435	0.167	>= 0.10	0.361	>= 0.10	0.073	Gamma; Lognormal; Normal	Normal
19_2_108	MW-10	Appendix III	Chloride	mg/l	14	9	64%	0.860	0.227	0.295	0.164	0.931	0.605	0.210	0.662	0.263	>= 0.10	0.351	>= 0.10	0.931	Gamma; Lognormal; Normal	Nonparametric
19_2_112	MW-10	Appendix III	Fluoride	mg/l	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA			NA		0.196	Nonparametric	
19_2_120	MW-10	Appendix III	pH, Field	su	14	0	0%	0.890	0.080	0.182	0.241	0.901	0.115	0.176	0.284	0.172	>= 0.10	0.455	>= 0.10	0.030	Gamma; Lognormal; Normal	Normal
19_2_124	MW-10	Appendix III	Sulfate	mg/l	14	0	0%	0.873	0.047	0.183	0.230	0.961	0.736	0.142	0.621	0.145	>= 0.10	0.302	>= 0.10	0.286	Gamma; Lognormal; Normal	Normal
19_2_126	MW-10	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	0.971	0.889	0.120	0.842	0.965	0.805	0.138	0.665	0.132	>= 0.10	0.223	>= 0.10	0.096	Gamma; Lognormal; Normal	Normal
19_3_101	MW-10	Appendix IV	Antimony	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
19_3_102	MW-10	Appendix IV	Arsenic	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA			NA		NA	Nonparametric	
19_3_103	MW-10	Appendix IV	Barium	mg/l	14	0	0%	0.972	0.904	0.134	0.714	0.954	0.620	0.147	0.566	0.148	>= 0.10	0.280	>= 0.10	0.121	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			
19_3_104	MW-10	Appendix IV	Beryllium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_3_106	MW-10	Appendix IV	Cadmium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_3_109	MW-10	Appendix IV	Chromium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_3_110	MW-10	Appendix IV	Cobalt	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_3_113	MW-10	Appendix IV	Fluoride (App IV)	mg/l	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.196		Nonparametric	
19_3_115	MW-10	Appendix IV	Lead	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_3_116	MW-10	Appendix IV	Lithium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_3_117	MW-10	Appendix IV	Mercury	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_3_118	MW-10	Appendix IV	Molybdenum	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_3_121	MW-10	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.814	0.007	0.283	0.003	0.912	0.168	0.198	0.143	0.240	0.01 <= p < 0.05	0.789	0.01 <= p < 0.05	0.842	Lognormal	Lognormal
19_3_122	MW-10	Appendix IV	Selenium	mg/l	14	13	93%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_3_125	MW-10	Appendix IV	Thallium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_5_111	MW-10	Part 115	Copper	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_5_114	MW-10	Part 115	Iron	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_5_119	MW-10	Part 115	Nickel	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_5_123	MW-10	Part 115	Silver	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_5_128	MW-10	Part 115	Vanadium	mg/l	14	14	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
19_5_129	MW-10	Part 115	Zinc	mg/l	14	12	86%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.565		Nonparametric	
20_2_105	MW-13	Appendix III	Boron	mg/l	13	0	0%	0.935	0.400	0.212	0.114	0.942	0.478	0.192	0.215	0.192	>= 0.10	0.403	>= 0.10	0.129	Gamma; Lognormal; Normal	Normal
20_2_107	MW-13	Appendix III	Calcium	mg/l	13	0	0%	0.892	0.105	0.188	0.241	0.894	0.110	0.187	0.248	0.197	>= 0.10	0.578	>= 0.10	0.191	Gamma; Lognormal; Normal	Normal
20_2_108	MW-13	Appendix III	Chloride	mg/l	13	2	15%	0.886	0.124	0.205	0.223	0.961	0.782	0.121	0.926	0.148	>= 0.10	0.289	>= 0.10	0.529	Gamma; Lognormal; Normal	Normal
20_2_112	MW-13	Appendix III	Fluoride	mg/l	13	12	92%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_2_120	MW-13	Appendix III	pH, Field	su	13	0	0%	0.876	0.062	0.210	0.122	0.864	0.043	0.215	0.101	0.215	>= 0.10	0.687	0.05 <= p < 0.10	0.033	Gamma; Lognormal; Normal	Normal
20_2_124	MW-13	Appendix III	Sulfate	mg/l	13	0	0%	0.829	0.015	0.236	0.046	0.946	0.534	0.144	0.648	0.185	>= 0.10	0.481	>= 0.10	0.766	Gamma; Lognormal	Gamma
20_2_126	MW-13	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	0.889	0.093	0.184	0.266	0.925	0.293	0.175	0.335	0.187	>= 0.10	0.469	>= 0.10	0.208	Gamma; Lognormal; Normal	Normal
20_3_101	MW-13	Appendix IV	Antimony	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_3_102	MW-13	Appendix IV	Arsenic	mg/l	13	9	69%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.302		Nonparametric	
20_3_103	MW-13	Appendix IV	Barium	mg/l	13	0	0%	0.946	0.543	0.192	0.210	0.972	0.921	0.153	0.554	0.165	>= 0.10	0.310	>= 0.10	0.211	Gamma; Lognormal; Normal	Normal
20_3_104	MW-13	Appendix IV	Beryllium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_3_106	MW-13	Appendix IV	Cadmium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_3_109	MW-13	Appendix IV	Chromium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_3_110	MW-13	Appendix IV	Cobalt	mg/l	13	12	92%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_3_113	MW-13	Appendix IV	Fluoride (App IV)	mg/l	13	12	92%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_3_115	MW-13	Appendix IV	Lead	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_3_116	MW-13	Appendix IV	Lithium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_3_117	MW-13	Appendix IV	Mercury	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_3_118	MW-13	Appendix IV	Molybdenum	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_3_121	MW-13	Appendix IV	Radium-226+228	pci/l	13	1	8%	0.815	0.014	0.257	0.027	0.898	0.150	0.215	0.132	0.218	>= 0.10	0.684	0.05 <= p < 0.10	1.152	Gamma; Lognormal	Gamma
20_3_122	MW-13	Appendix IV	Selenium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

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_125	MW-13	Appendix IV	Thallium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_5_111	MW-13	Part 115	Copper	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_5_114	MW-13	Part 115	Iron	mg/l	13	1	8%	0.643	0.000	0.373	0.000	0.822	0.017	0.209	0.155	0.292	0.01 <= p < 0.05	1.365	< 0.01	1.563	Lognormal	Nonparametric
20_5_119	MW-13	Part 115	Nickel	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_5_123	MW-13	Part 115	Silver	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_5_128	MW-13	Part 115	Vanadium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
20_5_129	MW-13	Part 115	Zinc	mg/l	13	11	85%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.784		Nonparametric	
21_2_105	MW-14	Appendix III	Boron	mg/l	11	0	0%	0.976	0.939	0.105	0.983	0.974	0.926	0.113	0.959	0.114	>= 0.10	0.185	>= 0.10	0.049	Gamma; Lognormal; Normal	Normal
21_2_107	MW-14	Appendix III	Calcium	mg/l	11	0	0%	0.861	0.060	0.259	0.038	0.874	0.087	0.253	0.048	0.258	0.01 <= p < 0.05	0.640	0.05 <= p < 0.10	0.064	Gamma; Lognormal; Normal	Normal
21_2_108	MW-14	Appendix III	Chloride	mg/l	11	0	0%	0.888	0.130	0.201	0.243	0.870	0.079	0.212	0.181	0.201	>= 0.10	0.549	>= 0.10	0.048	Gamma; Lognormal; Normal	Normal
21_2_112	MW-14	Appendix III	Fluoride	mg/l	11	10	91%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_2_120	MW-14	Appendix III	pH, Field	su	11	0	0%	0.955	0.714	0.163	0.571	0.956	0.718	0.164	0.556	0.170	>= 0.10	0.279	>= 0.10	0.010	Gamma; Lognormal; Normal	Normal
21_2_124	MW-14	Appendix III	Sulfate	mg/l	11	0	0%	0.374	0.000	0.503	0.000	0.715	0.001	0.297	0.007	0.439	< 0.01	2.381	< 0.01	1.297	Nonparametric	Nonparametric
21_2_126	MW-14	Appendix III	Total Dissolved Solids	mg/l	11	1	9%	0.967	0.864	0.144	0.802	0.971	0.897	0.141	0.832	0.131	>= 0.10	0.232	>= 0.10	0.047	Gamma; Lognormal; Normal	Normal
21_3_101	MW-14	Appendix IV	Antimony	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_3_102	MW-14	Appendix IV	Arsenic	mg/l	11	0	0%	0.952	0.667	0.158	0.620	0.939	0.511	0.197	0.275	0.182	>= 0.10	0.303	>= 0.10	0.211	Gamma; Lognormal; Normal	Normal
21_3_103	MW-14	Appendix IV	Barium	mg/l	11	0	0%	0.720	0.001	0.286	0.012	0.771	0.004	0.262	0.033	0.270	0.01 <= p < 0.05	1.006	< 0.01	0.109	Nonparametric	Nonparametric
21_3_104	MW-14	Appendix IV	Beryllium	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_3_106	MW-14	Appendix IV	Cadmium	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_3_109	MW-14	Appendix IV	Chromium	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_3_110	MW-14	Appendix IV	Cobalt	mg/l	11	10	91%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_3_113	MW-14	Appendix IV	Fluoride (App IV)	mg/l	11	10	91%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_3_115	MW-14	Appendix IV	Lead	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_3_116	MW-14	Appendix IV	Lithium	mg/l	11	0	0%	0.932	0.429	0.199	0.260	0.943	0.557	0.186	0.356	0.189	>= 0.10	0.386	>= 0.10	0.068	Gamma; Lognormal; Normal	Normal
21_3_117	MW-14	Appendix IV	Mercury	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_3_118	MW-14	Appendix IV	Molybdenum	mg/l	11	0	0%	0.881	0.108	0.205	0.218	0.884	0.118	0.212	0.179	0.218	>= 0.10	0.555	>= 0.10	0.100	Gamma; Lognormal; Normal	Normal
21_3_121	MW-14	Appendix IV	Radium-226+228	pci/l	11	1	9%	0.696	0.001	0.325	0.004	0.896	0.199	0.241	0.102	0.275	0.01 <= p < 0.05	0.849	0.01 <= p < 0.05	0.839	Lognormal	Lognormal
21_3_122	MW-14	Appendix IV	Selenium	mg/l	11	9	82%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.260		Nonparametric	
21_3_125	MW-14	Appendix IV	Thallium	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_5_111	MW-14	Part 115	Copper	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_5_114	MW-14	Part 115	Iron	mg/l	11	0	0%	0.944	0.567	0.140	0.789	0.896	0.164	0.186	0.353	0.169	>= 0.10	0.363	>= 0.10	0.237	Gamma; Lognormal; Normal	Normal
21_5_119	MW-14	Part 115	Nickel	mg/l	11	6	55%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.163		Nonparametric	
21_5_123	MW-14	Part 115	Silver	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_5_128	MW-14	Part 115	Vanadium	mg/l	11	10	91%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
21_5_129	MW-14	Part 115	Zinc	mg/l	11	9	82%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.203		Nonparametric	
22_2_105	MW-15	Appendix III	Boron	mg/l	11	0	0%	0.965	0.833	0.143	0.765	0.963	0.809	0.141	0.784	0.146	>= 0.10	0.280	>= 0.10	0.116	Gamma; Lognormal; Normal	Normal
22_2_107	MW-15	Appendix III	Calcium	mg/l	11	0	0%	0.936	0.470	0.153	0.672	0.964	0.823	0.164	0.562	0.155	>= 0.10	0.283	>= 0.10	0.149	Gamma; Lognormal; Normal	Normal
22_2_108	MW-15	Appendix III	Chloride	mg/l	11	0	0%	0.950	0.650	0.149	0.711	0.968	0.871	0.119	0.935	0.128	>= 0.10	0.193	>= 0.10	0.164	Gamma; Lognormal; Normal	Normal
22_2_112	MW-15	Appendix III	Fluoride	mg/l	11	10	91%	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
22_2_120	MW-15	Appendix III	pH, Field	su	11	0	0%	0.890	0.140	0.193	0.301	0.891	0.141	0.194	0.297	0.205	>= 0.10	0.521	>= 0.10	0.017	Gamma; Lognormal; Normal	Normal
22_2_124	MW-15	Appendix III	Sulfate	mg/l	11	0	0%	0.759	0.003	0.277	0.018	0.824	0.020	0.283	0.014	0.259	0.01 <= p < 0.05	1.053	< 0.01	0.361	Nonparametric	Nonparametric
22_2_126	MW-15	Appendix III	Total Dissolved Solids	mg/l	11	0	0%	0.871	0.080	0.218	0.152	0.922	0.331	0.190	0.321	0.190	>= 0.10	0.397	>= 0.10	0.136	Gamma; Lognormal; Normal	Normal
22_3_101	MW-15	Appendix IV	Antimony	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_3_102	MW-15	Appendix IV	Arsenic	mg/l	11	9	82%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.512		Nonparametric
22_3_103	MW-15	Appendix IV	Barium	mg/l	11	0	0%	0.977	0.946	0.130	0.868	0.985	0.988	0.121	0.922	0.134	>= 0.10	0.152	>= 0.10	0.182	Gamma; Lognormal; Normal	Normal
22_3_104	MW-15	Appendix IV	Beryllium	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_3_106	MW-15	Appendix IV	Cadmium	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_3_109	MW-15	Appendix IV	Chromium	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_3_110	MW-15	Appendix IV	Cobalt	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_3_113	MW-15	Appendix IV	Fluoride (App IV)	mg/l	11	10	91%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_3_115	MW-15	Appendix IV	Lead	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_3_116	MW-15	Appendix IV	Lithium	mg/l	11	10	91%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_3_117	MW-15	Appendix IV	Mercury	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_3_118	MW-15	Appendix IV	Molybdenum	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_3_121	MW-15	Appendix IV	Radium-226+228	pci/l	11	0	0%	0.899	0.180	0.176	0.448	0.907	0.226	0.184	0.378	0.165	>= 0.10	0.373	>= 0.10	0.668	Gamma; Lognormal; Normal	Normal
22_3_122	MW-15	Appendix IV	Selenium	mg/l	11	4	36%	0.914	0.425	0.220	0.385	0.919	0.465	0.217	0.408	0.238	>= 0.10	0.344	>= 0.10	0.515	Gamma; Lognormal; Normal	Normal
22_3_125	MW-15	Appendix IV	Thallium	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_5_111	MW-15	Part 115	Copper	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_5_114	MW-15	Part 115	Iron	mg/l	11	1	9%	0.725	0.002	0.265	0.045	0.941	0.563	0.190	0.387	0.185	>= 0.10	0.471	>= 0.10	0.908	Gamma; Lognormal	Gamma
22_5_119	MW-15	Part 115	Nickel	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_5_123	MW-15	Part 115	Silver	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_5_128	MW-15	Part 115	Vanadium	mg/l	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_5_129	MW-15	Part 115	Zinc	mg/l	11	10	91%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
23_2_105	MW-16A	Appendix III	Boron	mg/l	12	0	0%	0.894	0.134	0.199	0.211	0.867	0.060	0.201	0.200	0.211	>= 0.10	0.684	0.05 <= p < 0.10	0.344	Gamma; Lognormal; Normal	Normal
23_2_107	MW-16A	Appendix III	Calcium	mg/l	12	0	0%	0.942	0.519	0.127	0.858	0.930	0.385	0.146	0.686	0.146	>= 0.10	0.355	>= 0.10	0.147	Gamma; Lognormal; Normal	Normal
23_2_108	MW-16A	Appendix III	Chloride	mg/l	12	0	0%	0.939	0.490	0.148	0.661	0.939	0.488	0.149	0.648	0.160	>= 0.10	0.326	>= 0.10	0.096	Gamma; Lognormal; Normal	Normal
23_2_112	MW-16A	Appendix III	Fluoride	mg/l	12	11	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
23_2_120	MW-16A	Appendix III	pH, Field	su	12	0	0%	0.910	0.216	0.177	0.376	0.912	0.228	0.174	0.399	0.178	>= 0.10	0.479	>= 0.10	0.014	Gamma; Lognormal; Normal	Normal
23_2_124	MW-16A	Appendix III	Sulfate	mg/l	12	0	0%	0.922	0.300	0.201	0.197	0.920	0.288	0.238	0.058	0.237	0.05 <= p < 0.10	0.505	>= 0.10	0.445	Gamma; Lognormal; Normal	Normal
23_2_126	MW-16A	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	0.945	0.564	0.156	0.583	0.936	0.452	0.163	0.512	0.172	>= 0.10	0.356	>= 0.10	0.129	Gamma; Lognormal; Normal	Normal
23_3_101	MW-16A	Appendix IV	Antimony	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
23_3_102	MW-16A	Appendix IV	Arsenic	mg/l	12	0	0%	0.899	0.153	0.270	0.016	0.889	0.115	0.281	0.010	0.260	0.01 <= p < 0.05	0.748	0.01 <= p < 0.05	0.289	Lognormal; Normal	Normal
23_3_103	MW-16A	Appendix IV	Barium	mg/l	12	0	0%	0.947	0.599	0.188	0.287	0.940	0.492	0.201	0.197	0.205	>= 0.10	0.336	>= 0.10	0.161	Gamma; Lognormal; Normal	Normal
23_3_104	MW-16A	Appendix IV	Beryllium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
23_3_106	MW-16A	Appendix IV	Cadmium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
23_3_109	MW-16A	Appendix IV	Chromium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
23_3_110	MW-16A	Appendix IV	Cobalt	mg/l	12	11	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
23_3_113	MW-16A	Appendix IV	Fluoride (App IV)	mg/l	12	11	92%	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			
23_3_115	MW-16A	Appendix IV	Lead	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
23_3_116	MW-16A	Appendix IV	Lithium	mg/l	12	10	83%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.252		Nonparametric	
23_3_117	MW-16A	Appendix IV	Mercury	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
23_3_118	MW-16A	Appendix IV	Molybdenum	mg/l	12	11	92%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
23_3_121	MW-16A	Appendix IV	Radium-226+228	pci/l	12	0	0%	0.768	0.004	0.251	0.036	0.895	0.138	0.208	0.161	0.213	>= 0.10	0.631	>= 0.10	0.877	Gamma; Lognormal	Gamma
23_3_122	MW-16A	Appendix IV	Selenium	mg/l	12	11	92%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
23_3_125	MW-16A	Appendix IV	Thallium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
23_5_111	MW-16A	Part 115	Copper	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
23_5_114	MW-16A	Part 115	Iron	mg/l	12	0	0%	0.912	0.225	0.219	0.114	0.930	0.378	0.189	0.276	0.201	>= 0.10	0.416	>= 0.10	0.175	Gamma; Lognormal; Normal	Normal
23_5_119	MW-16A	Part 115	Nickel	mg/l	12	11	92%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
23_5_123	MW-16A	Part 115	Silver	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
23_5_128	MW-16A	Part 115	Vanadium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
23_5_129	MW-16A	Part 115	Zinc	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_2_105	MW-16B	Appendix III	Boron	mg/l	12	0	0%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.066		Nonparametric	
24_2_107	MW-16B	Appendix III	Calcium	mg/l	12	0	0%	0.971	0.925	0.112	0.947	0.967	0.871	0.117	0.921	0.121	>= 0.10	0.202	>= 0.10	0.040	Gamma; Lognormal; Normal	Normal
24_2_108	MW-16B	Appendix III	Chloride	mg/l	12	5	42%	0.683	0.002	0.321	0.028	0.824	0.070	0.247	0.220	0.276	>= 0.10	0.765	0.01 <= p < 0.05	0.459	Gamma; Lognormal	Gamma
24_2_112	MW-16B	Appendix III	Fluoride	mg/l	12	8	67%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.511		Nonparametric	
24_2_120	MW-16B	Appendix III	pH, Field	su	12	0	0%	0.957	0.740	0.181	0.344	0.955	0.710	0.183	0.325	0.179	>= 0.10	0.325	>= 0.10	0.012	Gamma; Lognormal; Normal	Normal
24_2_124	MW-16B	Appendix III	Sulfate	mg/l	12	0	0%	0.941	0.512	0.236	0.064	0.954	0.700	0.219	0.116	0.221	>= 0.10	0.355	>= 0.10	0.092	Gamma; Lognormal; Normal	Normal
24_2_126	MW-16B	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	0.898	0.148	0.228	0.085	0.894	0.134	0.232	0.074	0.234	0.05 <= p < 0.10	0.671	0.05 <= p < 0.10	0.024	Gamma; Lognormal; Normal	Normal
24_3_101	MW-16B	Appendix IV	Antimony	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_3_102	MW-16B	Appendix IV	Arsenic	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_3_103	MW-16B	Appendix IV	Barium	mg/l	12	0	0%	0.914	0.240	0.206	0.170	0.914	0.239	0.207	0.165	0.217	>= 0.10	0.624	0.05 <= p < 0.10	0.031	Gamma; Lognormal; Normal	Normal
24_3_104	MW-16B	Appendix IV	Beryllium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_3_106	MW-16B	Appendix IV	Cadmium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_3_109	MW-16B	Appendix IV	Chromium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_3_110	MW-16B	Appendix IV	Cobalt	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_3_113	MW-16B	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.511		Nonparametric	
24_3_115	MW-16B	Appendix IV	Lead	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_3_116	MW-16B	Appendix IV	Lithium	mg/l	12	0	0%	0.936	0.449	0.161	0.526	0.936	0.450	0.165	0.487	0.174	>= 0.10	0.402	>= 0.10	0.060	Gamma; Lognormal; Normal	Normal
24_3_117	MW-16B	Appendix IV	Mercury	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_3_118	MW-16B	Appendix IV	Molybdenum	mg/l	12	0	0%	0.725	0.001	0.351	0.000	0.748	0.003	0.337	0.000	0.342	< 0.01	1.731	< 0.01	0.110	Nonparametric	Nonparametric
24_3_121	MW-16B	Appendix IV	Radium-226+228	pci/l	12	0	0%	0.750	0.003	0.292	0.006	0.919	0.275	0.184	0.318	0.218	>= 0.10	0.686	0.05 <= p < 0.10	0.502	Gamma; Lognormal	Gamma
24_3_122	MW-16B	Appendix IV	Selenium	mg/l	12	11	92%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_3_125	MW-16B	Appendix IV	Thallium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_5_111	MW-16B	Part 115	Copper	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_5_114	MW-16B	Part 115	Iron	mg/l	12	0	0%	0.789	0.007	0.274	0.013	0.873	0.072	0.240	0.054	0.258	0.01 <= p < 0.05	0.841	0.01 <= p < 0.05	0.292	Lognormal	Lognormal
24_5_119	MW-16B	Part 115	Nickel	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
24_5_123	MW-16B	Part 115	Silver	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal		Lognormal		Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution				
								S-W		Lilliefors		S-W		Lilliefors					K-S		A-D	
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value				Stat.	p-Value	Stat.	p-Value
24_5_128	MW-16B	Part 115	Vanadium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric			
24_5_129	MW-16B	Part 115	Zinc	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric			
30_2_105	MW-100A	Appendix III	Boron	mg/l	10	1	10%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.098	Nonparametric			
30_2_107	MW-100A	Appendix III	Calcium	mg/l	10	0	0%	0.948	0.640	0.217	0.199	0.945	0.608	0.221	0.178	0.221	>= 0.10	0.341	>= 0.10	0.023	Gamma; Lognormal; Normal	Normal
30_2_108	MW-100A	Appendix III	Chloride	mg/l	10	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.020	Nonparametric		
30_2_112	MW-100A	Appendix III	Fluoride	mg/l	10	7	70%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.481	Nonparametric		
30_2_120	MW-100A	Appendix III	pH, Field	su	10	0	0%	0.965	0.842	0.150	0.751	0.963	0.819	0.153	0.732	0.155	>= 0.10	0.218	>= 0.10	0.013	Gamma; Lognormal; Normal	Normal
30_2_124	MW-100A	Appendix III	Sulfate	mg/l	10	0	0%	0.891	0.174	0.237	0.115	0.935	0.495	0.203	0.289	0.222	>= 0.10	0.412	>= 0.10	0.278	Gamma; Lognormal; Normal	Normal
30_2_126	MW-100A	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	0.796	0.013	0.259	0.055	0.773	0.007	0.270	0.038	0.263	0.05 <= p < 0.10	0.938	0.01 <= p < 0.05	0.050	Gamma; Normal	Normal
30_3_101	MW-100A	Appendix IV	Antimony	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_3_102	MW-100A	Appendix IV	Arsenic	mg/l	10	0	0%	0.948	0.641	0.200	0.309	0.913	0.304	0.238	0.111	0.228	>= 0.10	0.392	>= 0.10	0.225	Gamma; Lognormal; Normal	Normal
30_3_103	MW-100A	Appendix IV	Barium	mg/l	10	0	0%	0.854	0.065	0.206	0.269	0.850	0.058	0.212	0.229	0.210	>= 0.10	0.686	0.05 <= p < 0.10	0.036	Gamma; Lognormal; Normal	Normal
30_3_104	MW-100A	Appendix IV	Beryllium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_3_106	MW-100A	Appendix IV	Cadmium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_3_109	MW-100A	Appendix IV	Chromium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_3_110	MW-100A	Appendix IV	Cobalt	mg/l	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_3_113	MW-100A	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.481	Nonparametric		
30_3_115	MW-100A	Appendix IV	Lead	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_3_116	MW-100A	Appendix IV	Lithium	mg/l	10	0	0%	0.946	0.619	0.156	0.705	0.929	0.435	0.163	0.637	0.170	>= 0.10	0.345	>= 0.10	0.201	Gamma; Lognormal; Normal	Normal
30_3_117	MW-100A	Appendix IV	Mercury	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_3_118	MW-100A	Appendix IV	Molybdenum	mg/l	10	0	0%	0.919	0.348	0.204	0.281	0.911	0.286	0.201	0.299	0.215	>= 0.10	0.463	>= 0.10	0.218	Gamma; Lognormal; Normal	Normal
30_3_121	MW-100A	Appendix IV	Radium-226+228	pci/l	10	0	0%	0.880	0.131	0.189	0.399	0.938	0.532	0.138	0.850	0.161	>= 0.10	0.306	>= 0.10	0.660	Gamma; Lognormal; Normal	Normal
30_3_122	MW-100A	Appendix IV	Selenium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_3_125	MW-100A	Appendix IV	Thallium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_5_111	MW-100A	Part 115	Copper	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_5_114	MW-100A	Part 115	Iron	mg/l	10	0	0%	0.922	0.373	0.214	0.218	0.793	0.012	0.312	0.007	0.283	0.01 <= p < 0.05	0.743	0.01 <= p < 0.05	0.542	Normal	Normal
30_5_119	MW-100A	Part 115	Nickel	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_5_123	MW-100A	Part 115	Silver	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_5_128	MW-100A	Part 115	Vanadium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
30_5_129	MW-100A	Part 115	Zinc	mg/l	10	8	80%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.539	Nonparametric		
31_2_105	MW-100B	Appendix III	Boron	mg/l	10	0	0%	0.949	0.658	0.202	0.292	0.952	0.687	0.184	0.434	0.185	>= 0.10	0.316	>= 0.10	0.112	Gamma; Lognormal; Normal	Normal
31_2_107	MW-100B	Appendix III	Calcium	mg/l	10	0	0%	0.963	0.825	0.186	0.419	0.968	0.874	0.177	0.505	0.179	>= 0.10	0.263	>= 0.10	0.053	Gamma; Lognormal; Normal	Normal
31_2_108	MW-100B	Appendix III	Chloride	mg/l	10	0	0%	0.856	0.068	0.190	0.384	0.835	0.039	0.194	0.351	0.208	>= 0.10	0.722	0.05 <= p < 0.10	0.101	Gamma; Lognormal; Normal	Normal
31_2_112	MW-100B	Appendix III	Fluoride	mg/l	10	7	70%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.545	Nonparametric		
31_2_120	MW-100B	Appendix III	pH, Field	su	10	0	0%	0.868	0.096	0.189	0.400	0.871	0.102	0.186	0.418	0.191	>= 0.10	0.586	>= 0.10	0.013	Gamma; Lognormal; Normal	Normal
31_2_124	MW-100B	Appendix III	Sulfate	mg/l	10	0	0%	0.864	0.085	0.214	0.218	0.883	0.143	0.205	0.271	0.211	>= 0.10	0.540	>= 0.10	0.081	Gamma; Lognormal; Normal	Normal
31_2_126	MW-100B	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	0.929	0.442	0.176	0.515	0.919	0.348	0.186	0.417	0.175	>= 0.10	0.383	>= 0.10	0.058	Gamma; Lognormal; Normal	Normal
31_3_101	MW-100B	Appendix IV	Antimony	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Nonparametric	
31_3_102	MW-100B	Appendix IV	Arsenic	mg/l	10	0	0%	0.792	0.011	0.290	0.017	0.760	0.005	0.312	0.007	0.305	0.01 <= p < 0.05	0.953	0.01 <= p < 0.05	0.128	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
31_3_103	MW-100B	Appendix IV	Barium	mg/l	10	0	0%	0.930	0.444	0.220	0.184	0.936	0.510	0.214	0.219	0.221	>= 0.10	0.340	>= 0.10	0.052	Gamma; Lognormal; Normal	Normal
31_3_104	MW-100B	Appendix IV	Beryllium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_3_106	MW-100B	Appendix IV	Cadmium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_3_109	MW-100B	Appendix IV	Chromium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_3_110	MW-100B	Appendix IV	Cobalt	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_3_113	MW-100B	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.545		Nonparametric
31_3_115	MW-100B	Appendix IV	Lead	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_3_116	MW-100B	Appendix IV	Lithium	mg/l	10	0	0%	0.904	0.245	0.233	0.130	0.906	0.256	0.228	0.148	0.240	>= 0.10	0.546	>= 0.10	0.055	Gamma; Lognormal; Normal	Normal
31_3_117	MW-100B	Appendix IV	Mercury	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_3_118	MW-100B	Appendix IV	Molybdenum	mg/l	10	0	0%	0.895	0.195	0.293	0.015	0.865	0.089	0.316	0.006	0.317	< 0.01	0.784	0.01 <= p < 0.05	0.184	Lognormal; Normal	Normal
31_3_121	MW-100B	Appendix IV	Radium-226+228	pci/l	10	1	10%	0.930	0.484	0.145	0.847	0.852	0.078	0.229	0.189	0.206	>= 0.10	0.511	>= 0.10	0.548	Gamma; Lognormal; Normal	Normal
31_3_122	MW-100B	Appendix IV	Selenium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_3_125	MW-100B	Appendix IV	Thallium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_5_111	MW-100B	Part 115	Copper	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_5_114	MW-100B	Part 115	Iron	mg/l	10	0	0%	0.903	0.235	0.266	0.043	0.930	0.447	0.236	0.118	0.249	0.05 <= p < 0.10	0.509	>= 0.10	0.185	Gamma; Lognormal; Normal	Normal
31_5_119	MW-100B	Part 115	Nickel	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_5_123	MW-100B	Part 115	Silver	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_5_128	MW-100B	Part 115	Vanadium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
31_5_129	MW-100B	Part 115	Zinc	mg/l	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		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_105	MW-2	Appendix III	Boron	mg/l	17	0	0%	0.699	0.002	**
11_2_107	MW-2	Appendix III	Calcium	mg/l	17	0	0%	0.851	0.000	***
11_2_108	MW-2	Appendix III	Chloride	mg/l	17	0	0%	0.498	0.025	*
11_2_112	MW-2	Appendix III	Fluoride	mg/l	18	17	94%	NA	NA	
11_2_120	MW-2	Appendix III	pH, Field	su	18	0	0%	0.262	0.228	
11_2_124	MW-2	Appendix III	Sulfate	mg/l	17	0	0%	0.840	0.000	***
11_2_126	MW-2	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	0.830	0.000	***
11_3_102	MW-2	Appendix IV	Arsenic	mg/l	18	15	83%	-0.500	0.171	
11_3_103	MW-2	Appendix IV	Barium	mg/l	18	0	0%	0.189	0.384	
11_3_106	MW-2	Appendix IV	Cadmium	mg/l	18	17	94%	NA	NA	
11_3_110	MW-2	Appendix IV	Cobalt	mg/l	18	17	94%	NA	NA	
11_3_113	MW-2	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	NA	NA	
11_3_116	MW-2	Appendix IV	Lithium	mg/l	18	0	0%	0.742	0.001	***
11_3_118	MW-2	Appendix IV	Molybdenum	mg/l	18	0	0%	0.380	0.080	
11_3_121	MW-2	Appendix IV	Radium-226+228	pci/l	18	1	6%	-0.232	0.297	
11_5_114	MW-2	Part 115	Iron	mg/l	18	0	0%	0.314	0.148	
11_5_119	MW-2	Part 115	Nickel	mg/l	18	0	0%	0.730	0.001	***
11_5_129	MW-2	Part 115	Zinc	mg/l	18	14	78%	-0.054	0.879	
12_2_105	MW-3	Appendix III	Boron	mg/l	9	0	0%	-0.318	0.263	
12_2_107	MW-3	Appendix III	Calcium	mg/l	9	0	0%	-0.219	0.441	
12_2_108	MW-3	Appendix III	Chloride	mg/l	9	0	0%	0.418	0.141	
12_2_112	MW-3	Appendix III	Fluoride	mg/l	9	8	89%	NA	NA	
12_2_120	MW-3	Appendix III	pH, Field	su	9	0	0%	-0.143	0.615	
12_2_124	MW-3	Appendix III	Sulfate	mg/l	9	0	0%	-0.465	0.102	
12_2_126	MW-3	Appendix III	Total Dissolved Solids	mg/l	9	0	0%	0.136	0.632	
12_3_102	MW-3	Appendix IV	Arsenic	mg/l	9	0	0%	0.142	0.617	
12_3_103	MW-3	Appendix IV	Barium	mg/l	9	0	0%	0.615	0.030	*
12_3_110	MW-3	Appendix IV	Cobalt	mg/l	9	8	89%	NA	NA	
12_3_113	MW-3	Appendix IV	Fluoride (App IV)	mg/l	9	8	89%	NA	NA	
12_3_116	MW-3	Appendix IV	Lithium	mg/l	9	0	0%	0.428	0.132	
12_3_118	MW-3	Appendix IV	Molybdenum	mg/l	9	0	0%	0.079	0.781	
12_3_121	MW-3	Appendix IV	Radium-226+228	pci/l	9	1	11%	0.420	0.156	
12_5_114	MW-3	Part 115	Iron	mg/l	9	0	0%	0.318	0.264	
12_5_119	MW-3	Part 115	Nickel	mg/l	9	8	89%	NA	NA	
12_5_129	MW-3	Part 115	Zinc	mg/l	9	8	89%	NA	NA	
13_2_105	MW-5	Appendix III	Boron	mg/l	17	0	0%	0.159	0.475	
13_2_107	MW-5	Appendix III	Calcium	mg/l	17	0	0%	0.472	0.034	*
13_2_108	MW-5	Appendix III	Chloride	mg/l	17	0	0%	0.677	0.002	**
13_2_112	MW-5	Appendix III	Fluoride	mg/l	18	17	94%	NA	NA	
13_2_120	MW-5	Appendix III	pH, Field	su	18	0	0%	-0.200	0.357	
13_2_124	MW-5	Appendix III	Sulfate	mg/l	17	0	0%	0.523	0.019	*
13_2_126	MW-5	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	0.567	0.011	*

(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.
13_3_102	MW-5	Appendix IV	Arsenic	mg/l	18	12	67%	-0.232	0.473	
13_3_103	MW-5	Appendix IV	Barium	mg/l	18	0	0%	0.237	0.275	
13_3_106	MW-5	Appendix IV	Cadmium	mg/l	18	17	94%	NA	NA	
13_3_109	MW-5	Appendix IV	Chromium	mg/l	18	15	83%	-0.020	0.957	
13_3_110	MW-5	Appendix IV	Cobalt	mg/l	18	16	89%	-0.500	0.157	
13_3_113	MW-5	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	NA	NA	
13_3_115	MW-5	Appendix IV	Lead	mg/l	18	14	78%	-0.609	0.085	
13_3_116	MW-5	Appendix IV	Lithium	mg/l	18	0	0%	-0.105	0.628	
13_3_118	MW-5	Appendix IV	Molybdenum	mg/l	18	0	0%	0.295	0.175	
13_3_121	MW-5	Appendix IV	Radium-226+228	pci/l	18	1	6%	0.280	0.208	
13_5_111	MW-5	Part 115	Copper	mg/l	18	13	72%	-0.664	0.050	*
13_5_114	MW-5	Part 115	Iron	mg/l	18	1	6%	0.025	0.911	
13_5_119	MW-5	Part 115	Nickel	mg/l	18	0	0%	0.522	0.016	*
13_5_123	MW-5	Part 115	Silver	mg/l	18	17	94%	NA	NA	
13_5_128	MW-5	Part 115	Vanadium	mg/l	18	14	78%	0.269	0.447	
13_5_129	MW-5	Part 115	Zinc	mg/l	18	4	22%	-0.228	0.344	
14_2_105	MW-6	Appendix III	Boron	mg/l	17	0	0%	0.431	0.053	
14_2_107	MW-6	Appendix III	Calcium	mg/l	17	0	0%	0.449	0.044	*
14_2_108	MW-6	Appendix III	Chloride	mg/l	17	0	0%	0.400	0.073	
14_2_112	MW-6	Appendix III	Fluoride	mg/l	18	17	94%	NA	NA	
14_2_120	MW-6	Appendix III	pH, Field	su	18	0	0%	0.063	0.773	
14_2_124	MW-6	Appendix III	Sulfate	mg/l	17	0	0%	0.436	0.050	
14_2_126	MW-6	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	0.412	0.064	
14_3_102	MW-6	Appendix IV	Arsenic	mg/l	18	17	94%	NA	NA	
14_3_103	MW-6	Appendix IV	Barium	mg/l	18	0	0%	0.418	0.054	
14_3_106	MW-6	Appendix IV	Cadmium	mg/l	18	17	94%	NA	NA	
14_3_110	MW-6	Appendix IV	Cobalt	mg/l	18	17	94%	NA	NA	
14_3_113	MW-6	Appendix IV	Fluoride (App IV)	mg/l	18	17	94%	NA	NA	
14_3_116	MW-6	Appendix IV	Lithium	mg/l	18	0	0%	0.314	0.148	
14_3_118	MW-6	Appendix IV	Molybdenum	mg/l	18	0	0%	0.184	0.397	
14_3_121	MW-6	Appendix IV	Radium-226+228	pci/l	18	1	6%	0.123	0.579	
14_5_114	MW-6	Part 115	Iron	mg/l	18	9	50%	0.328	0.248	
14_5_119	MW-6	Part 115	Nickel	mg/l	18	5	28%	0.226	0.362	
14_5_129	MW-6	Part 115	Zinc	mg/l	18	16	89%	-0.500	0.157	
15_2_105	MW-7	Appendix III	Boron	mg/l	14	0	0%	0.342	0.156	
15_2_107	MW-7	Appendix III	Calcium	mg/l	14	0	0%	-0.161	0.503	
15_2_108	MW-7	Appendix III	Chloride	mg/l	14	0	0%	0.293	0.224	
15_2_112	MW-7	Appendix III	Fluoride	mg/l	14	11	79%	-0.528	0.148	
15_2_120	MW-7	Appendix III	pH, Field	su	14	0	0%	-0.061	0.800	
15_2_124	MW-7	Appendix III	Sulfate	mg/l	14	0	0%	-0.304	0.207	
15_2_126	MW-7	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	-0.151	0.532	
15_3_102	MW-7	Appendix IV	Arsenic	mg/l	14	0	0%	0.292	0.226	

(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.
15_3_103	MW-7	Appendix IV	Barium	mg/l	14	0	0%	0.003	0.989	
15_3_109	MW-7	Appendix IV	Chromium	mg/l	14	13	93%	NA	NA	
15_3_110	MW-7	Appendix IV	Cobalt	mg/l	14	13	93%	NA	NA	
15_3_113	MW-7	Appendix IV	Fluoride (App IV)	mg/l	14	11	79%	-0.528	0.148	
15_3_116	MW-7	Appendix IV	Lithium	mg/l	14	0	0%	0.616	0.011	*
15_3_117	MW-7	Appendix IV	Mercury	mg/l	14	13	93%	NA	NA	
15_3_118	MW-7	Appendix IV	Molybdenum	mg/l	14	0	0%	0.679	0.005	**
15_3_121	MW-7	Appendix IV	Radium-226+228	pci/l	14	0	0%	-0.274	0.255	
15_5_114	MW-7	Part 115	Iron	mg/l	14	0	0%	-0.024	0.919	
15_5_128	MW-7	Part 115	Vanadium	mg/l	14	13	93%	NA	NA	
15_5_129	MW-7	Part 115	Zinc	mg/l	14	11	79%	-0.667	0.068	
16_2_105	MW-7C	Appendix III	Boron	mg/l	13	0	0%	-0.144	0.562	
16_2_107	MW-7C	Appendix III	Calcium	mg/l	13	0	0%	-0.128	0.605	
16_2_108	MW-7C	Appendix III	Chloride	mg/l	13	0	0%	-0.386	0.119	
16_2_112	MW-7C	Appendix III	Fluoride	mg/l	13	12	92%	NA	NA	
16_2_120	MW-7C	Appendix III	pH, Field	su	13	0	0%	0.035	0.888	
16_2_124	MW-7C	Appendix III	Sulfate	mg/l	13	0	0%	0.500	0.044	*
16_2_126	MW-7C	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	0.456	0.066	
16_3_102	MW-7C	Appendix IV	Arsenic	mg/l	13	0	0%	0.225	0.363	
16_3_103	MW-7C	Appendix IV	Barium	mg/l	13	0	0%	-0.057	0.817	
16_3_106	MW-7C	Appendix IV	Cadmium	mg/l	13	10	77%	0.000	1.000	
16_3_113	MW-7C	Appendix IV	Fluoride (App IV)	mg/l	13	12	92%	NA	NA	
16_3_116	MW-7C	Appendix IV	Lithium	mg/l	13	0	0%	0.343	0.167	
16_3_118	MW-7C	Appendix IV	Molybdenum	mg/l	13	0	0%	-0.135	0.587	
16_3_121	MW-7C	Appendix IV	Radium-226+228	pci/l	13	0	0%	-0.050	0.841	
16_5_114	MW-7C	Part 115	Iron	mg/l	13	0	0%	0.113	0.648	
16_5_119	MW-7C	Part 115	Nickel	mg/l	13	0	0%	0.179	0.471	
16_5_129	MW-7C	Part 115	Zinc	mg/l	13	11	85%	-0.500	0.157	
17_2_105	MW-8	Appendix III	Boron	mg/l	14	1	7%	-0.061	0.805	
17_2_107	MW-8	Appendix III	Calcium	mg/l	14	0	0%	0.020	0.933	
17_2_108	MW-8	Appendix III	Chloride	mg/l	14	2	14%	-0.207	0.417	
17_2_112	MW-8	Appendix III	Fluoride	mg/l	14	12	86%	-0.500	0.157	
17_2_120	MW-8	Appendix III	pH, Field	su	14	0	0%	-0.221	0.360	
17_2_124	MW-8	Appendix III	Sulfate	mg/l	14	0	0%	0.062	0.797	
17_2_126	MW-8	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	0.170	0.481	
17_3_102	MW-8	Appendix IV	Arsenic	mg/l	14	13	93%	NA	NA	
17_3_103	MW-8	Appendix IV	Barium	mg/l	14	0	0%	0.200	0.407	
17_3_113	MW-8	Appendix IV	Fluoride (App IV)	mg/l	14	12	86%	-0.500	0.157	
17_3_116	MW-8	Appendix IV	Lithium	mg/l	14	6	43%	0.037	0.900	
17_3_118	MW-8	Appendix IV	Molybdenum	mg/l	14	11	79%	-0.663	0.069	
17_3_121	MW-8	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.138	0.566	
17_5_111	MW-8	Part 115	Copper	mg/l	14	13	93%	NA	NA	

(Table continues on next page)
*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
17_5_114	MW-8	Part 115	Iron	mg/l	14	13	93%	NA	NA	
17_5_128	MW-8	Part 115	Vanadium	mg/l	14	13	93%	NA	NA	
17_5_129	MW-8	Part 115	Zinc	mg/l	14	13	93%	NA	NA	
18_2_105	MW-9	Appendix III	Boron	mg/l	14	13	93%	NA	NA	
18_2_107	MW-9	Appendix III	Calcium	mg/l	14	0	0%	0.583	0.015	*
18_2_108	MW-9	Appendix III	Chloride	mg/l	14	10	71%	-0.081	0.819	
18_2_112	MW-9	Appendix III	Fluoride	mg/l	14	13	93%	NA	NA	
18_2_120	MW-9	Appendix III	pH, Field	su	14	0	0%	-0.202	0.402	
18_2_124	MW-9	Appendix III	Sulfate	mg/l	14	8	57%	0.487	0.131	
18_2_126	MW-9	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	0.706	0.003	**
18_3_102	MW-9	Appendix IV	Arsenic	mg/l	14	13	93%	NA	NA	
18_3_103	MW-9	Appendix IV	Barium	mg/l	14	0	0%	0.619	0.010	*
18_3_113	MW-9	Appendix IV	Fluoride (App IV)	mg/l	14	13	93%	NA	NA	
18_3_121	MW-9	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.041	0.866	
18_5_129	MW-9	Part 115	Zinc	mg/l	14	12	86%	-0.500	0.157	
19_2_105	MW-10	Appendix III	Boron	mg/l	14	1	7%	-0.182	0.462	
19_2_107	MW-10	Appendix III	Calcium	mg/l	14	0	0%	-0.048	0.843	
19_2_108	MW-10	Appendix III	Chloride	mg/l	14	9	64%	-0.008	0.981	
19_2_112	MW-10	Appendix III	Fluoride	mg/l	14	12	86%	-0.500	0.157	
19_2_120	MW-10	Appendix III	pH, Field	su	14	0	0%	-0.166	0.490	
19_2_124	MW-10	Appendix III	Sulfate	mg/l	14	0	0%	-0.070	0.771	
19_2_126	MW-10	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	0.083	0.731	
19_3_102	MW-10	Appendix IV	Arsenic	mg/l	14	13	93%	NA	NA	
19_3_103	MW-10	Appendix IV	Barium	mg/l	14	0	0%	0.445	0.065	
19_3_113	MW-10	Appendix IV	Fluoride (App IV)	mg/l	14	12	86%	-0.500	0.157	
19_3_117	MW-10	Appendix IV	Mercury	mg/l	14	13	93%	NA	NA	
19_3_121	MW-10	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.552	0.022	*
19_3_122	MW-10	Appendix IV	Selenium	mg/l	14	13	93%	NA	NA	
19_5_129	MW-10	Part 115	Zinc	mg/l	14	12	86%	-0.500	0.157	
20_2_105	MW-13	Appendix III	Boron	mg/l	13	0	0%	0.485	0.051	
20_2_107	MW-13	Appendix III	Calcium	mg/l	13	0	0%	0.650	0.009	**
20_2_108	MW-13	Appendix III	Chloride	mg/l	13	2	15%	0.624	0.018	*
20_2_112	MW-13	Appendix III	Fluoride	mg/l	13	12	92%	NA	NA	
20_2_120	MW-13	Appendix III	pH, Field	su	13	0	0%	0.146	0.556	
20_2_124	MW-13	Appendix III	Sulfate	mg/l	13	0	0%	0.701	0.005	**
20_2_126	MW-13	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	0.736	0.003	**
20_3_102	MW-13	Appendix IV	Arsenic	mg/l	13	9	69%	-0.318	0.368	
20_3_103	MW-13	Appendix IV	Barium	mg/l	13	0	0%	0.728	0.003	**
20_3_110	MW-13	Appendix IV	Cobalt	mg/l	13	12	92%	NA	NA	
20_3_113	MW-13	Appendix IV	Fluoride (App IV)	mg/l	13	12	92%	NA	NA	
20_3_121	MW-13	Appendix IV	Radium-226+228	pci/l	13	1	8%	-0.008	0.975	
20_5_114	MW-13	Part 115	Iron	mg/l	13	1	8%	0.628	0.014	*

(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_5_129	MW-13	Part 115	Zinc	mg/l	13	11	85%	-0.500	0.157	
21_2_105	MW-14	Appendix III	Boron	mg/l	11	0	0%	0.294	0.266	
21_2_107	MW-14	Appendix III	Calcium	mg/l	11	0	0%	0.708	0.007	**
21_2_108	MW-14	Appendix III	Chloride	mg/l	11	0	0%	-0.068	0.798	
21_2_112	MW-14	Appendix III	Fluoride	mg/l	11	10	91%	NA	NA	
21_2_120	MW-14	Appendix III	pH, Field	su	11	0	0%	0.022	0.933	
21_2_124	MW-14	Appendix III	Sulfate	mg/l	11	0	0%	-0.098	0.712	
21_2_126	MW-14	Appendix III	Total Dissolved Solids	mg/l	11	1	9%	0.012	0.966	
21_3_102	MW-14	Appendix IV	Arsenic	mg/l	11	0	0%	0.325	0.219	
21_3_103	MW-14	Appendix IV	Barium	mg/l	11	0	0%	-0.164	0.534	
21_3_110	MW-14	Appendix IV	Cobalt	mg/l	11	10	91%	NA	NA	
21_3_113	MW-14	Appendix IV	Fluoride (App IV)	mg/l	11	10	91%	NA	NA	
21_3_116	MW-14	Appendix IV	Lithium	mg/l	11	0	0%	0.541	0.041	*
21_3_118	MW-14	Appendix IV	Molybdenum	mg/l	11	0	0%	0.091	0.731	
21_3_121	MW-14	Appendix IV	Radium-226+228	pci/l	11	1	9%	-0.054	0.843	
21_3_122	MW-14	Appendix IV	Selenium	mg/l	11	9	82%	-0.500	0.157	
21_5_114	MW-14	Part 115	Iron	mg/l	11	0	0%	0.530	0.045	*
21_5_119	MW-14	Part 115	Nickel	mg/l	11	6	55%	-0.001	0.998	
21_5_128	MW-14	Part 115	Vanadium	mg/l	11	10	91%	NA	NA	
21_5_129	MW-14	Part 115	Zinc	mg/l	11	9	82%	-0.500	0.157	
22_2_105	MW-15	Appendix III	Boron	mg/l	11	0	0%	0.317	0.231	
22_2_107	MW-15	Appendix III	Calcium	mg/l	11	0	0%	0.301	0.255	
22_2_108	MW-15	Appendix III	Chloride	mg/l	11	0	0%	0.401	0.130	
22_2_112	MW-15	Appendix III	Fluoride	mg/l	11	10	91%	NA	NA	
22_2_120	MW-15	Appendix III	pH, Field	su	11	0	0%	0.701	0.008	**
22_2_124	MW-15	Appendix III	Sulfate	mg/l	11	0	0%	0.230	0.385	
22_2_126	MW-15	Appendix III	Total Dissolved Solids	mg/l	11	0	0%	-0.065	0.806	
22_3_102	MW-15	Appendix IV	Arsenic	mg/l	11	9	82%	-0.500	0.157	
22_3_103	MW-15	Appendix IV	Barium	mg/l	11	0	0%	0.284	0.283	
22_3_113	MW-15	Appendix IV	Fluoride (App IV)	mg/l	11	10	91%	NA	NA	
22_3_116	MW-15	Appendix IV	Lithium	mg/l	11	10	91%	NA	NA	
22_3_121	MW-15	Appendix IV	Radium-226+228	pci/l	11	0	0%	-0.324	0.220	
22_3_122	MW-15	Appendix IV	Selenium	mg/l	11	4	36%	0.265	0.390	
22_5_114	MW-15	Part 115	Iron	mg/l	11	1	9%	-0.060	0.828	
22_5_129	MW-15	Part 115	Zinc	mg/l	11	10	91%	NA	NA	
23_2_105	MW-16A	Appendix III	Boron	mg/l	12	0	0%	0.503	0.049	*
23_2_107	MW-16A	Appendix III	Calcium	mg/l	12	0	0%	0.700	0.006	**
23_2_108	MW-16A	Appendix III	Chloride	mg/l	12	0	0%	0.601	0.019	*
23_2_112	MW-16A	Appendix III	Fluoride	mg/l	12	11	92%	NA	NA	
23_2_120	MW-16A	Appendix III	pH, Field	su	12	0	0%	0.069	0.787	
23_2_124	MW-16A	Appendix III	Sulfate	mg/l	12	0	0%	0.719	0.005	**
23_2_126	MW-16A	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	0.786	0.002	**

(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.
23_3_102	MW-16A	Appendix IV	Arsenic	mg/l	12	0	0%	0.229	0.371	
23_3_103	MW-16A	Appendix IV	Barium	mg/l	12	0	0%	0.535	0.037	*
23_3_110	MW-16A	Appendix IV	Cobalt	mg/l	12	11	92%	NA	NA	
23_3_113	MW-16A	Appendix IV	Fluoride (App IV)	mg/l	12	11	92%	NA	NA	
23_3_116	MW-16A	Appendix IV	Lithium	mg/l	12	10	83%	-0.500	0.157	
23_3_118	MW-16A	Appendix IV	Molybdenum	mg/l	12	11	92%	NA	NA	
23_3_121	MW-16A	Appendix IV	Radium-226+228	pci/l	12	0	0%	-0.241	0.346	
23_3_122	MW-16A	Appendix IV	Selenium	mg/l	12	11	92%	NA	NA	
23_5_114	MW-16A	Part 115	Iron	mg/l	12	0	0%	0.079	0.757	
23_5_119	MW-16A	Part 115	Nickel	mg/l	12	11	92%	NA	NA	
24_2_105	MW-16B	Appendix III	Boron	mg/l	12	0	0%	0.133	0.602	
24_2_107	MW-16B	Appendix III	Calcium	mg/l	12	0	0%	0.537	0.036	*
24_2_108	MW-16B	Appendix III	Chloride	mg/l	12	5	42%	0.150	0.626	
24_2_112	MW-16B	Appendix III	Fluoride	mg/l	12	8	67%	0.118	0.739	
24_2_120	MW-16B	Appendix III	pH, Field	su	12	0	0%	0.100	0.697	
24_2_124	MW-16B	Appendix III	Sulfate	mg/l	12	0	0%	0.509	0.046	*
24_2_126	MW-16B	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	-0.017	0.948	
24_3_103	MW-16B	Appendix IV	Barium	mg/l	12	0	0%	0.092	0.720	
24_3_113	MW-16B	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	0.118	0.739	
24_3_116	MW-16B	Appendix IV	Lithium	mg/l	12	0	0%	0.225	0.380	
24_3_118	MW-16B	Appendix IV	Molybdenum	mg/l	12	0	0%	-0.006	0.981	
24_3_121	MW-16B	Appendix IV	Radium-226+228	pci/l	12	0	0%	-0.206	0.420	
24_3_122	MW-16B	Appendix IV	Selenium	mg/l	12	11	92%	NA	NA	
24_5_114	MW-16B	Part 115	Iron	mg/l	12	0	0%	0.358	0.161	
30_2_105	MW-100A	Appendix III	Boron	mg/l	10	1	10%	-0.175	0.539	
30_2_107	MW-100A	Appendix III	Calcium	mg/l	10	0	0%	0.285	0.299	
30_2_108	MW-100A	Appendix III	Chloride	mg/l	10	0	0%	0.509	0.063	
30_2_112	MW-100A	Appendix III	Fluoride	mg/l	10	7	70%	0.000	1.000	
30_2_120	MW-100A	Appendix III	pH, Field	su	10	0	0%	-0.293	0.284	
30_2_124	MW-100A	Appendix III	Sulfate	mg/l	10	0	0%	0.661	0.016	*
30_2_126	MW-100A	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	0.108	0.693	
30_3_102	MW-100A	Appendix IV	Arsenic	mg/l	10	0	0%	0.382	0.164	
30_3_103	MW-100A	Appendix IV	Barium	mg/l	10	0	0%	0.403	0.141	
30_3_110	MW-100A	Appendix IV	Cobalt	mg/l	10	9	90%	NA	NA	
30_3_113	MW-100A	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	0.000	1.000	
30_3_116	MW-100A	Appendix IV	Lithium	mg/l	10	0	0%	0.727	0.008	**
30_3_118	MW-100A	Appendix IV	Molybdenum	mg/l	10	0	0%	0.710	0.009	**
30_3_121	MW-100A	Appendix IV	Radium-226+228	pci/l	10	0	0%	-0.190	0.489	
30_5_114	MW-100A	Part 115	Iron	mg/l	10	0	0%	0.351	0.200	
30_5_129	MW-100A	Part 115	Zinc	mg/l	10	8	80%	-0.500	0.157	
31_2_105	MW-100B	Appendix III	Boron	mg/l	10	0	0%	-0.023	0.932	
31_2_107	MW-100B	Appendix III	Calcium	mg/l	10	0	0%	0.099	0.718	

(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.
31_2_108	MW-100B	Appendix III	Chloride	mg/l	10	0	0%	0.614	0.025	*
31_2_112	MW-100B	Appendix III	Fluoride	mg/l	10	7	70%	0.000	0.999	
31_2_120	MW-100B	Appendix III	pH, Field	su	10	0	0%	0.374	0.172	
31_2_124	MW-100B	Appendix III	Sulfate	mg/l	10	0	0%	0.419	0.126	
31_2_126	MW-100B	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	0.098	0.721	
31_3_102	MW-100B	Appendix IV	Arsenic	mg/l	10	0	0%	0.153	0.576	
31_3_103	MW-100B	Appendix IV	Barium	mg/l	10	0	0%	0.528	0.054	
31_3_113	MW-100B	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	0.000	0.999	
31_3_116	MW-100B	Appendix IV	Lithium	mg/l	10	0	0%	0.029	0.917	
31_3_118	MW-100B	Appendix IV	Molybdenum	mg/l	10	0	0%	0.451	0.100	
31_3_121	MW-100B	Appendix IV	Radium-226+228	pci/l	10	1	10%	-0.177	0.534	
31_5_114	MW-100B	Part 115	Iron	mg/l	10	0	0%	-0.240	0.380	
31_5_129	MW-100B	Part 115	Zinc	mg/l	10	9	90%	NA	NA	

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 5: Outlier Counts by Date

Date	Count
2020-04-28	1
2020-05-26	2
2021-01-27	1
2021-05-04	1
2021-06-15	2
2021-08-24	1
2021-09-28	1
2022-02-01	1
2022-02-17	1
2022-03-10	1
2022-05-19	1
2023-01-12	2
2023-02-02	1
2023-03-21	1
2023-03-24	1
2023-10-17	1
2024-01-29	1
2024-01-30	2
2024-08-05	1
2024-08-07	1
2025-02-04	1
2025-02-05	1
2025-02-06	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_5_114	MW-2	Part 115	Iron	mg/l	18	0	0%	18	2022-02-01	1	1.93
12_2_126	MW-3	Appendix III	Total Dissolved Solids	mg/l	9	0	0%	9	2025-02-06	1	1200
12_3_102	MW-3	Appendix IV	Arsenic	mg/l	9	0	0%	9	2024-01-29	1	0.00600
13_2_120	MW-5	Appendix III	pH, Field	su	18	0	0%	18	2021-05-04	1	6.40
13_5_114	MW-5	Part 115	Iron	mg/l	18	1	6%	17	2020-04-28	1	8.00
13_5_129	MW-5	Part 115	Zinc	mg/l	18	4	22%	14	2021-01-27	1	0.0980
14_2_120	MW-6	Appendix III	pH, Field	su	18	0	0%	18	2020-05-26	1	6.35
14_3_121	MW-6	Appendix IV	Radium-226+228	pci/l	18	1	6%	17	2024-08-05	1	4.29
14_5_114	MW-6	Part 115	Iron	mg/l	18	9	50%	9	2020-05-26	1	0.200
14_5_119	MW-6	Part 115	Nickel	mg/l	18	5	28%	13	2025-02-04	1	0.00330
15_2_120	MW-7	Appendix III	pH, Field	su	14	0	0%	14	2021-06-15	1	8.18
15_2_126	MW-7	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	14	2024-01-30	1	864
15_5_114	MW-7	Part 115	Iron	mg/l	14	0	0%	14	2022-02-17	1	2.81
15_5_129	MW-7	Part 115	Zinc	mg/l	14	11	79%	3	2021-08-24	1	0.0140

(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
16_2_107	MW-7C	Appendix III	Calcium	mg/l	13	0	0%	13	2022-05-19	1	183
16_3_102	MW-7C	Appendix IV	Arsenic	mg/l	13	0	0%	13	2024-01-30	1	0.0100
16_5_119	MW-7C	Part 115	Nickel	mg/l	13	0	0%	13	2022-03-10	1	0.0100
17_2_105	MW-8	Appendix III	Boron	mg/l	14	1	7%	13	2021-09-28	1	0.210
17_2_120	MW-8	Appendix III	pH, Field	su	14	0	0%	14	2021-06-15	1	7.78
21_2_124	MW-14	Appendix III	Sulfate	mg/l	11	0	0%	11	2023-03-24	1	748
21_3_103	MW-14	Appendix IV	Barium	mg/l	11	0	0%	11	2023-01-12	1	0.177
22_2_124	MW-15	Appendix III	Sulfate	mg/l	11	0	0%	11	2023-01-12	1	238
22_5_114	MW-15	Part 115	Iron	mg/l	11	1	9%	10	2024-08-07	1	0.380
24_2_108	MW-16B	Appendix III	Chloride	mg/l	12	5	42%	7	2023-03-21	1	11.0
24_3_118	MW-16B	Appendix IV	Molybdenum	mg/l	12	0	0%	12	2023-02-02	1	0.00800
24_3_121	MW-16B	Appendix IV	Radium-226+228	pci/l	12	0	0%	12	2023-10-17	1	6.43
30_2_126	MW-100A	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	10	2025-02-05	1	360

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full									Without Non-Detects								
						Sample Size					p-Value				Sample Size					p-Value			
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA		
11_2_105	MW-2	Appendix III	Boron	mg/l	0%	5	3	7	2	17	0.198	0.175	0.214	5	3	7	2	17	0.198	0.175	0.214		
11_2_107	MW-2	Appendix III	Calcium	mg/l	0%	5	3	7	2	17	0.232	0.177	0.177	5	3	7	2	17	0.232	0.177	0.177		
11_2_108	MW-2	Appendix III	Chloride	mg/l	0%	5	3	7	2	17	0.103	0.231	0.272	5	3	7	2	17	0.103	0.231	0.272		
11_2_112	MW-2	Appendix III	Fluoride	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA		
11_2_120	MW-2	Appendix III	pH, Field	su	0%	5	3	7	3	18	0.128	0.070	0.070	5	3	7	3	18	0.128	0.070	0.070		
11_2_124	MW-2	Appendix III	Sulfate	mg/l	0%	5	3	7	2	17	0.200	0.202	0.258	5	3	7	2	17	0.200	0.202	0.258		
11_2_126	MW-2	Appendix III	Total Dissolved Solids	mg/l	0%	5	3	7	2	17	0.206	0.219	0.243	5	3	7	2	17	0.206	0.219	0.243		
11_3_101	MW-2	Appendix IV	Antimony	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA		
11_3_102	MW-2	Appendix IV	Arsenic	mg/l	83%	5	3	7	3	18	0.940	0.978	0.949	2	0	1	0	3	1.000	1.000	0.938		
11_3_103	MW-2	Appendix IV	Barium	mg/l	0%	5	3	7	3	18	0.912	0.924	0.890	5	3	7	3	18	0.912	0.924	0.890		
11_3_104	MW-2	Appendix IV	Beryllium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA		
11_3_106	MW-2	Appendix IV	Cadmium	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA		
11_3_109	MW-2	Appendix IV	Chromium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA		
11_3_110	MW-2	Appendix IV	Cobalt	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA		
11_3_113	MW-2	Appendix IV	Fluoride (App IV)	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA		
11_3_115	MW-2	Appendix IV	Lead	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA		
11_3_116	MW-2	Appendix IV	Lithium	mg/l	0%	5	3	7	3	18	0.109	0.102	0.139	5	3	7	3	18	0.109	0.102	0.139		
11_3_117	MW-2	Appendix IV	Mercury	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA		
11_3_118	MW-2	Appendix IV	Molybdenum	mg/l	0%	5	3	7	3	18	0.149	0.307	0.294	5	3	7	3	18	0.149	0.307	0.294		
11_3_121	MW-2	Appendix IV	Radium-226+228	pci/l	6%	5	3	7	3	18	0.843	0.937	NA	4	3	7	3	17	0.885	0.960	NA		
11_3_122	MW-2	Appendix IV	Selenium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA		
11_3_125	MW-2	Appendix IV	Thallium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA		
11_5_111	MW-2	Part 115	Copper	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493										

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$

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_3_106	MW-3	Appendix IV	Cadmium	mg/l	100%	4	1	4	0	9	0.535	0.601	0.601	NA	NA	NA	NA	NA	NA	NA	NA	NA					
12_3_109	MW-3	Appendix IV	Chromium	mg/l	100%	4	1	4	0	9	0.535	0.601	0.601	NA	NA	NA	NA	NA	NA	NA	NA	NA					
12_3_110	MW-3	Appendix IV	Cobalt	mg/l	89%	4	1	4	0	9	0.535	0.601	0.601	1	0	0	0	1	NA	NA	NA	NA					
12_3_113	MW-3	Appendix IV	Fluoride (App IV)	mg/l	89%	4	1	4	0	9	0.535	0.601	0.601	1	0	0	0	1	NA	NA	NA	NA					
12_3_115	MW-3	Appendix IV	Lead	mg/l	100%	4	1	4	0	9	0.535	0.601	0.601	NA	NA	NA	NA	NA	NA	NA	NA	NA					
12_3_116	MW-3	Appendix IV	Lithium	mg/l	0%	4	1	4	0	9	0.712	0.693	0.702	4	1	4	0	9	0.712	0.693	0.702	0.702					
12_3_117	MW-3	Appendix IV	Mercury	mg/l	100%	4	1	4	0	9	0.535	0.601	0.601	NA	NA	NA	NA	NA	NA	NA	NA	NA					
12_3_118	MW-3	Appendix IV	Molybdenum	mg/l	0%	4	1	4	0	9	0.612	0.549	0.572	4	1	4	0	9	0.612	0.549	0.572	0.572					
12_3_121	MW-3	Appendix IV	Radium-226+228	pci/l	11%	4	1	4	0	9	0.920	0.942	0.925	3	1	4	0	8	0.846	0.789	0.742	0.742					
12_3_122	MW-3	Appendix IV	Selenium	mg/l	100%	4	1	4	0	9	0.535	0.601	0.601	NA	NA	NA	NA	NA	NA	NA	NA	NA					
12_3_125	MW-3	Appendix IV	Thallium	mg/l	100%	4	1	4	0	9	0.535	0.601	0.601	NA	NA	NA	NA	NA	NA	NA	NA	NA					
12_5_111	MW-3	Part 115	Copper	mg/l	100%	4	1	4	0	9	0.535	0.601	0.601	NA	NA	NA	NA	NA	NA	NA	NA	NA					
12_5_114	MW-3	Part 115	Iron	mg/l	0%	4	1	4	0	9	0.648	0.578	0.582	4	1	4	0	9	0.648	0.578	0.582	0.582					
12_5_119	MW-3	Part 115	Nickel	mg/l	89%	4	1	4	0	9	0.535	0.601	0.601	1	0	0	0	1	NA	NA	NA	NA					
12_5_123	MW-3	Part 115	Silver	mg/l	100%	4	1	4	0	9	0.535	0.601	0.601	NA	NA	NA	NA	NA	NA	NA	NA	NA					
12_5_128	MW-3	Part 115	Vanadium	mg/l	100%	4	1	4	0	9	0.535	0.601	0.601	NA	NA	NA	NA	NA	NA	NA	NA	NA					
12_5_129	MW-3	Part 115	Zinc	mg/l	89%	4	1	4	0	9	0.535	0.601	0.601	1	0	0	0	1	NA	NA	NA	NA					
13_2_105	MW-5	Appendix III	Boron	mg/l	0%	5	3	7	2	17	0.061	0.130	0.302	5	3	7	2	17	0.061	0.130	0.302	0.302					
13_2_107	MW-5	Appendix III	Calcium	mg/l	0%	5	3	7	2	17	0.048	*	0.022	*	0.044	*	5	3	7	2	17	0.048	*	0.022	*	0.044	*
13_2_108	MW-5	Appendix III	Chloride	mg/l	0%	5	3	7	2	17	0.033	*	0.028	*	0.042	*	5	3	7	2	17	0.033	*	0.028	*	0.042	*
13_2_112	MW-5	Appendix III	Fluoride	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA	NA	NA	NA	NA	NA	
13_2_120	MW-5	Appendix III	pH, Field	su	0%	5	3	7	3	18	0.484	0.198	0.196	5	3	7	3	18	0.484	0.198	0.196	0.196	0.196	0.196	0.196	0.196	
13_2_124	MW-5	Appendix III	Sulfate	mg/l	0%	5	3	7	2	17	0.047	*	0.021	*	0.031	*	5	3	7	2	17	0.047	*	0.021	*	0.031	*
13_2_126	MW-5	Appendix III	Total Dissolved Solids	mg/l	0%	5	3	7	2	17	0.034	*	0.020	*	0.025	*	5	3	7	2	17	0.034	*	0.020	*	0.025	*
13_3_101	MW-5	Appendix IV	Antimony	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_102	MW-5	Appendix IV	Arsenic	mg/l	67%	5	3	7	3	18	0.803	0.580	0.851	2	3	1	0	6	0.366	0.416	0.421	0.421	0.421	0.421	0.421	0.421	
13_3_103	MW-5	Appendix IV	Barium	mg/l	0%	5	3	7	3	18	0.419	0.252	0.287	5	3	7	3	18	0.419	0.252	0.287	0.287	0.287	0.287	0.287	0.287	
13_3_104	MW-5	Appendix IV	Beryllium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_106	MW-5	Appendix IV	Cadmium	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_109	MW-5	Appendix IV	Chromium	mg/l	83%	5	3	7	3	18	0.600	0.361	0.501	2	1	0	0	3	0.221	0.443	0.558	0.558	0.558	0.558	0.558	0.558	
13_3_110	MW-5	Appendix IV	Cobalt	mg/l	89%	5	3	7	3	18	0.209	0.409	0.463	1	1	0	0	2	0.317	NA	NA	NA	NA	NA	NA	NA	
13_3_113	MW-5	Appendix IV	Fluoride (App IV)	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_115	MW-5	Appendix IV	Lead	mg/l	78%	5	3	7	3	18	0.702	0.746	0.976	2	1	1	0	4	0.861	0.933	0.981	0.981	0.981	0.981	0.981	0.981	
13_3_116	MW-5	Appendix IV	Lithium	mg/l	0%	5	3	7	3	18	0.600	0.598	0.569	5	3	7	3	18	0.600	0.598	0.569	0.569	0.569	0.569	0.569	0.569	
13_3_117	MW-5	Appendix IV	Mercury	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_118	MW-5	Appendix IV	Molybdenum	mg/l	0%	5	3	7	3	18	0.180	0.356	0.464	5	3	7	3	18	0.180	0.356	0.464	0.464	0.464	0.464	0.464	0.464	
13_3_121	MW-5	Appendix IV	Radium-226+228	pci/l	6%	5	3	7	3	18	0.141	0.151	0.143	4	3	7	3	17	0.040	*	0.056	0.032	*	0.032	*	0.032	
13_3_122	MW-5	Appendix IV	Selenium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_125	MW-5	Appendix IV	Thallium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full								Without Non-Detects													
						Sample Size					p-Value			Sample Size					p-Value								
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
13_5_111	MW-5	Part 115	Copper	mg/l	72%	5	3	7	3	18	0.876	0.984	0.990	2	1	2	0	5	0.819	0.908	0.934						
13_5_114	MW-5	Part 115	Iron	mg/l	6%	5	3	7	3	18	0.146	0.192	0.081	5	3	7	2	17	0.267	0.258	0.257						
13_5_119	MW-5	Part 115	Nickel	mg/l	0%	5	3	7	3	18	0.047	*	0.023	*	0.026	*	5	3	7	3	18	0.047	*	0.023	*	0.026	*
13_5_123	MW-5	Part 115	Silver	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA						
13_5_128	MW-5	Part 115	Vanadium	mg/l	78%	5	3	7	3	18	0.600	0.415	0.575	3	1	0	0	4	0.180	0.256	0.413						
13_5_129	MW-5	Part 115	Zinc	mg/l	22%	5	3	7	3	18	0.882	0.410	0.721	4	2	7	1	14	0.553	0.343	0.422						
14_2_105	MW-6	Appendix III	Boron	mg/l	0%	5	3	7	2	17	0.019	*	0.008	**	0.009	**	5	3	7	2	17	0.019	*	0.008	**	0.009	**
14_2_107	MW-6	Appendix III	Calcium	mg/l	0%	5	3	7	2	17	0.051	0.035	*	0.027	*	5	3	7	2	17	0.051	0.035	*	0.027	*		
14_2_108	MW-6	Appendix III	Chloride	mg/l	0%	5	3	7	2	17	0.057	0.075	0.057	5	3	7	2	17	0.057	0.075	0.057						
14_2_112	MW-6	Appendix III	Fluoride	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA						
14_2_120	MW-6	Appendix III	pH, Field	su	0%	5	3	7	3	18	0.684	0.644	0.628	5	3	7	3	18	0.684	0.644	0.628						
14_2_124	MW-6	Appendix III	Sulfate	mg/l	0%	5	3	7	2	17	0.066	0.036	*	0.045	*	5	3	7	2	17	0.066	0.036	*	0.045	*		
14_2_126	MW-6	Appendix III	Total Dissolved Solids	mg/l	0%	5	3	7	2	17	0.029	*	0.017	*	0.013	*	5	3	7	2	17	0.029	*	0.017	*	0.013	*
14_3_101	MW-6	Appendix IV	Antimony	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14_3_102	MW-6	Appendix IV	Arsenic	mg/l	94%	5	3	7	3	18	1.000	0.997	0.887	1	0	0	0	1	NA	NA	NA						
14_3_103	MW-6	Appendix IV	Barium	mg/l	0%	5	3	7	3	18	0.130	0.177	0.174	5	3	7	3	18	0.130	0.177	0.174						
14_3_104	MW-6	Appendix IV	Beryllium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14_3_106	MW-6	Appendix IV	Cadmium	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA						
14_3_109	MW-6	Appendix IV	Chromium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14_3_110	MW-6	Appendix IV	Cobalt	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA						
14_3_113	MW-6	Appendix IV	Fluoride (App IV)	mg/l	94%	5	3	7	3	18	0.457	0.493	0.493	1	0	0	0	1	NA	NA	NA						
14_3_115	MW-6	Appendix IV	Lead	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14_3_116	MW-6	Appendix IV	Lithium	mg/l	0%	5	3	7	3	18	0.093	0.146	0.174	5	3	7	3	18	0.093	0.146	0.174						
14_3_117	MW-6	Appendix IV	Mercury	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14_3_118	MW-6	Appendix IV	Molybdenum	mg/l	0%	5	3	7	3	18	0.198	0.413	0.543	5	3	7	3	18	0.198	0.413	0.543						
14_3_121	MW-6	Appendix IV	Radium-226+228	pci/l	6%	5	3	7	3	18	0.639	0.764	NA	4	3	7	3	17	0.406	0.654	NA						
14_3_122	MW-6	Appendix IV	Selenium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14_3_125	MW-6	Appendix IV	Thallium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14_5_111	MW-6	Part 115	Copper	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14_5_114	MW-6	Part 115	Iron	mg/l	50%	5	3	7	3	18	0.142	0.052	0.063	1	2	6	0	9	0.109	0.045	*	0.055					
14_5_119	MW-6	Part 115	Nickel	mg/l	28%	5	3	7	3	18	0.142	0.174	0.217	4	2	4	3	13	0.046	*	0.088	0.158					
14_5_123	MW-6	Part 115	Silver	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14_5_128	MW-6	Part 115	Vanadium	mg/l	100%	5	3	7	3	18	0.457	0.493	0.493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
14_5_129	MW-6	Part 115	Zinc	mg/l	89%	5	3	7	3	18	0.209	0.159	0.160	1	1	0	0	2	0.317	NA	NA						
15_2_105	MW-7	Appendix III	Boron	mg/l	0%	6	0	6	2	14	0.361	0.348	0.372	6	0	6	2	14	0.361	0.348	0.372						
15_2_107	MW-7	Appendix III	Calcium	mg/l	0%	6	0	6	2	14	0.282	0.160	0.161	6	0	6	2	14	0.282	0.160	0.161						
15_2_108	MW-7	Appendix III	Chloride	mg/l	0%	6	0	6	2	14	0.546	0.486	0.489	6	0	6	2	14	0.546	0.486	0.489						
15_2_112	MW-7	Appendix III	Fluoride	mg/l	79%	6	0	6	2	14	0.667	0.658	0.681	2	0	1	0	3	0.221	0.302	0.283						
15_2_120	MW-7	Appendix III	pH, Field	su	0%	6	0	6	2	14	0.622	0.428	0.424	6	0	6	2	14	0.622	0.428	0.424						

(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								
15_2_124	MW-7	Appendix III	Sulfate	mg/l	0%	6	0	6	2	14	0.008	**	0.027	*	0.018	*	6	0	6	2	14	0.008	**	0.027	*	0.018	*		
15_2_126	MW-7	Appendix III	Total Dissolved Solids	mg/l	0%	6	0	6	2	14	0.117		0.160		0.145		6	0	6	2	14	0.117		0.160		0.145			
15_3_101	MW-7	Appendix IV	Antimony	mg/l	100%	6	0	6	2	14	0.513		0.551		0.551		NA	NA	NA	NA	NA	NA		NA		NA			
15_3_102	MW-7	Appendix IV	Arsenic	mg/l	0%	6	0	6	2	14	0.628		0.574		0.554		6	0	6	2	14	0.628		0.574		0.554			
15_3_103	MW-7	Appendix IV	Barium	mg/l	0%	6	0	6	2	14	0.874		0.821		0.770		6	0	6	2	14	0.874		0.821		0.770			
15_3_104	MW-7	Appendix IV	Beryllium	mg/l	100%	6	0	6	2	14	0.513		0.551		0.551		NA	NA	NA	NA	NA	NA		NA		NA			
15_3_106	MW-7	Appendix IV	Cadmium	mg/l	100%	6	0	6	2	14	0.513		0.551		0.551		NA	NA	NA	NA	NA	NA		NA		NA			
15_3_109	MW-7	Appendix IV	Chromium	mg/l	93%	6	0	6	2	14	0.338		0.393		0.458		0	0	1	0	1	NA		NA		NA			
15_3_110	MW-7	Appendix IV	Cobalt	mg/l	93%	6	0	6	2	14	0.513		0.551		0.551		1	0	0	0	1	NA		NA		NA			
15_3_113	MW-7	Appendix IV	Fluoride (App IV)	mg/l	79%	6	0	6	2	14	0.667		0.658		0.681		2	0	1	0	3	0.221		0.302		0.283			
15_3_115	MW-7	Appendix IV	Lead	mg/l	100%	6	0	6	2	14	0.513		0.551		0.551		NA	NA	NA	NA	NA	NA		NA		NA			
15_3_116	MW-7	Appendix IV	Lithium	mg/l	0%	6	0	6	2	14	0.292		0.446		0.461		6	0	6	2	14	0.292		0.446		0.461			
15_3_117	MW-7	Appendix IV	Mercury	mg/l	93%	6	0	6	2	14	0.513		0.551		0.551		0	0	1	0	1	NA		NA		NA			
15_3_118	MW-7	Appendix IV	Molybdenum	mg/l	0%	6	0	6	2	14	0.480		0.510		0.500		6	0	6	2	14	0.480		0.510		0.500			
15_3_121	MW-7	Appendix IV	Radium-226+228	pci/l	0%	6	0	6	2	14	0.918		0.979		0.766		6	0	6	2	14	0.918		0.979		0.766			
15_3_122	MW-7	Appendix IV	Selenium	mg/l	100%	6	0	6	2	14	0.513		0.551		0.551		NA	NA	NA	NA	NA	NA		NA		NA			
15_3_125	MW-7	Appendix IV	Thallium	mg/l	100%	6	0	6	2	14	0.513		0.551		0.551		NA	NA	NA	NA	NA	NA		NA		NA			
15_5_111	MW-7	Part 115	Copper	mg/l	100%	6	0	6	2	14	0.513		0.551		0.551		NA	NA	NA	NA	NA	NA		NA		NA			
15_5_114	MW-7	Part 115	Iron	mg/l	0%	6	0	6	2	14	0.364		0.469		0.579		6	0	6	2	14	0.364		0.469		0.579			
15_5_119	MW-7	Part 115	Nickel	mg/l	100%	6	0	6	2	14	0.513		0.551		0.551		NA	NA	NA	NA	NA	NA		NA		NA			
15_5_123	MW-7	Part 115	Silver	mg/l	100%	6	0	6	2	14	0.513		0.551		0.551		NA	NA	NA	NA	NA	NA		NA		NA			
15_5_128	MW-7	Part 115	Vanadium	mg/l	93%	6	0	6	2	14	1.000		0.736		0.629		1	0	0	0	1	NA		NA		NA			
15_5_129	MW-7	Part 115	Zinc	mg/l	79%	6	0	6	2	14	0.086		0.202		0.234		0	0	3	0	3	NA		NA		NA			
16_2_105	MW-7C	Appendix III	Boron	mg/l	0%	3	3	4	3	13	0.787		0.654		0.663		3	3	4	3	13	0.787		0.654		0.663			
16_2_107	MW-7C	Appendix III	Calcium	mg/l	0%	3	3	4	3	13	0.803		0.986		0.977		3	3	4	3	13	0.803		0.986		0.977			
16_2_108	MW-7C	Appendix III	Chloride	mg/l	0%	3	3	4	3	13	0.361		0.356		0.337		3	3	4	3	13	0.361		0.356		0.337			
16_2_112	MW-7C	Appendix III	Fluoride	mg/l	92%	3	3	4	3	13	0.343		0.379		0.379		1	0	0	0	1	NA		NA		NA			
16_2_120	MW-7C	Appendix III	pH, Field	su	0%	3	3	4	3	13	0.038	*	0.011	*	0.011	*	3	3	4	3	13	0.038	*	0.011	*	0.011	*		
16_2_124	MW-7C	Appendix III	Sulfate	mg/l	0%	3	3	4	3	13	0.033	*	0.000	***	0.001	***	3	3	4	3	13	0.033	*	0.000	***	0.001	***		
16_2_126	MW-7C	Appendix III	Total Dissolved Solids	mg/l	0%	3	3	4	3	13	0.031	*	0.014	*	0.018	*	3	3	4	3	13	0.031	*	0.014	*	0.018	*		
16_3_101	MW-7C	Appendix IV	Antimony	mg/l	100%	3	3	4	3	13	0.343		0.379		0.379		NA	NA	NA	NA	NA	NA		NA		NA			
16_3_102	MW-7C	Appendix IV	Arsenic	mg/l	0%	3	3	4	3	13	0.377		0.608		0.591		3	3	4	3	13	0.377		0.608		0.591			
16_3_103	MW-7C	Appendix IV	Barium	mg/l	0%	3	3	4	3	13	0.142		0.118		0.119		3	3	4	3	13	0.142		0.118		0.119			
16_3_104	MW-7C	Appendix IV	Beryllium	mg/l	100%	3	3	4	3	13	0.343		0.379		0.379		NA	NA	NA	NA	NA	NA		NA		NA			
16_3_106	MW-7C	Appendix IV	Cadmium	mg/l	77%	3	3	4	3	13	0.116		0.099		0.217		0	1	0	2	3	0.221		0.333		0.310			
16_3_109	MW-7C	Appendix IV	Chromium	mg/l	100%	3	3	4	3	13	0.343		0.379		0.379		NA	NA	NA	NA	NA	NA		NA		NA			
16_3_110	MW-7C	Appendix IV	Cobalt	mg/l	100%	3	3	4	3	13	0.343		0.379		0.379		NA	NA	NA	NA	NA	NA		NA		NA			
16_3_113	MW-7C	Appendix IV	Fluoride (App IV)	mg/l	92%	3	3	4	3	13	0.343		0.379		0.379		1	0	0	0	1	NA		NA		NA			
16_3_115	MW-7C	Appendix IV	Lead	mg/l	100%	3	3	4	3	13	0.343		0.379		0.379		NA	NA	NA	NA	NA	NA		NA		NA			

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests (continued)

						Full								Without Non-Detects								
						Sample Size					p-Value			Sample Size					p-Value			
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	
17_5_129	MW-8	Part 115	Zinc	mg/l	93%	6	0	6	2	14	1.000	0.894	0.706	1	0	0	0	1	NA	NA	NA	
18_2_105	MW-9	Appendix III	Boron	mg/l	93%	6	0	6	2	14	0.513	0.551	0.551	0	0	1	0	1	NA	NA	NA	
18_2_107	MW-9	Appendix III	Calcium	mg/l	0%	6	0	6	2	14	0.132	0.294	0.238	6	0	6	2	14	0.132	0.294	0.238	
18_2_108	MW-9	Appendix III	Chloride	mg/l	71%	6	0	6	2	14	0.532	0.471	0.503	3	0	1	0	4	0.180	0.471	0.563	
18_2_112	MW-9	Appendix III	Fluoride	mg/l	93%	6	0	6	2	14	0.238	0.251	0.252	1	0	0	0	1	NA	NA	NA	
18_2_120	MW-9	Appendix III	pH, Field	su	0%	6	0	6	2	14	0.528	0.770	0.765	6	0	6	2	14	0.528	0.770	0.765	
18_2_124	MW-9	Appendix III	Sulfate	mg/l	57%	6	0	6	2	14	0.792	0.676	0.762	3	0	3	0	6	0.827	0.580	0.733	
18_2_126	MW-9	Appendix III	Total Dissolved Solids	mg/l	0%	6	0	6	2	14	0.292	0.434	0.396	6	0	6	2	14	0.292	0.434	0.396	
18_3_101	MW-9	Appendix IV	Antimony	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_3_102	MW-9	Appendix IV	Arsenic	mg/l	93%	6	0	6	2	14	1.000	0.987	0.853	1	0	0	0	1	NA	NA	NA	
18_3_103	MW-9	Appendix IV	Barium	mg/l	0%	6	0	6	2	14	0.914	0.830	0.856	6	0	6	2	14	0.914	0.830	0.856	
18_3_104	MW-9	Appendix IV	Beryllium	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_3_106	MW-9	Appendix IV	Cadmium	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_3_109	MW-9	Appendix IV	Chromium	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_3_110	MW-9	Appendix IV	Cobalt	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_3_113	MW-9	Appendix IV	Fluoride (App IV)	mg/l	93%	6	0	6	2	14	0.238	0.251	0.252	1	0	0	0	1	NA	NA	NA	
18_3_115	MW-9	Appendix IV	Lead	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_3_116	MW-9	Appendix IV	Lithium	mg/l	100%	6	0	6	2	14	0.338	0.434	0.389	NA	NA	NA	NA	NA	NA	NA	NA	
18_3_117	MW-9	Appendix IV	Mercury	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_3_118	MW-9	Appendix IV	Molybdenum	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_3_121	MW-9	Appendix IV	Radium-226+228	pci/l	0%	6	0	6	2	14	0.386	0.422	NA	6	0	6	2	14	0.386	0.422	NA	
18_3_122	MW-9	Appendix IV	Selenium	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_3_125	MW-9	Appendix IV	Thallium	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_5_111	MW-9	Part 115	Copper	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_5_114	MW-9	Part 115	Iron	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_5_119	MW-9	Part 115	Nickel	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_5_123	MW-9	Part 115	Silver	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_5_128	MW-9	Part 115	Vanadium	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
18_5_129	MW-9	Part 115	Zinc	mg/l	86%	6	0	6	2	14	1.000	0.999	0.852	2	0	0	0	2	NA	NA	NA	
19_2_105	MW-10	Appendix III	Boron	mg/l	7%	6	0	6	2	14	0.443	0.293	0.311	5	0	6	2	13	0.289	0.219	0.219	
19_2_107	MW-10	Appendix III	Calcium	mg/l	0%	6	0	6	2	14	0.625	0.632	0.641	6	0	6	2	14	0.625	0.632	0.641	
19_2_108	MW-10	Appendix III	Chloride	mg/l	64%	6	0	6	2	14	0.834	0.955	0.694	3	0	2	0	5	0.564	0.969	0.702	
19_2_112	MW-10	Appendix III	Fluoride	mg/l	86%	6	0	6	2	14	0.238	0.251	0.252	2	0	0	0	2	NA	NA	NA	
19_2_120	MW-10	Appendix III	pH, Field	su	0%	6	0	6	2	14	0.875	0.761	0.771	6	0	6	2	14	0.875	0.761	0.771	
19_2_124	MW-10	Appendix III	Sulfate	mg/l	0%	6	0	6	2	14	0.363	0.301	0.256	6	0	6	2	14	0.363	0.301	0.256	
19_2_126	MW-10	Appendix III	Total Dissolved Solids	mg/l	0%	6	0	6	2	14	0.304	0.348	0.392	6	0	6	2	14	0.304	0.348	0.392	
19_3_101	MW-10	Appendix IV	Antimony	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	
19_3_102	MW-10	Appendix IV	Arsenic	mg/l	93%	6	0	6	2	14	0.513	0.551	0.551	1	0	0	0	1	NA	NA	NA	
19_3_103	MW-10	Appendix IV	Barium	mg/l	0%	6	0	6	2	14	0.394	0.506	0.512	6	0	6	2	14	0.394	0.506	0.512	

(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						
19_3_104	MW-10	Appendix IV	Beryllium	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_3_106	MW-10	Appendix IV	Cadmium	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_3_109	MW-10	Appendix IV	Chromium	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_3_110	MW-10	Appendix IV	Cobalt	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_3_113	MW-10	Appendix IV	Fluoride (App IV)	mg/l	86%	6	0	6	2	14	0.238	0.251	0.252	2	0	0	0	2	NA	NA	NA	NA					
19_3_115	MW-10	Appendix IV	Lead	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_3_116	MW-10	Appendix IV	Lithium	mg/l	100%	6	0	6	2	14	0.338	0.434	0.389	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_3_117	MW-10	Appendix IV	Mercury	mg/l	93%	6	0	6	2	14	0.513	0.551	0.551	0	0	1	0	1	NA	NA	NA	NA					
19_3_118	MW-10	Appendix IV	Molybdenum	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_3_121	MW-10	Appendix IV	Radium-226+228	pci/l	0%	6	0	6	2	14	0.222	0.272	0.182	6	0	6	2	14	0.222	0.272	0.182	0.182					
19_3_122	MW-10	Appendix IV	Selenium	mg/l	93%	6	0	6	2	14	0.513	0.551	0.551	1	0	0	0	1	NA	NA	NA	NA					
19_3_125	MW-10	Appendix IV	Thallium	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_5_111	MW-10	Part 115	Copper	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_5_114	MW-10	Part 115	Iron	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_5_119	MW-10	Part 115	Nickel	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_5_123	MW-10	Part 115	Silver	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_5_128	MW-10	Part 115	Vanadium	mg/l	100%	6	0	6	2	14	0.513	0.551	0.551	NA	NA	NA	NA	NA	NA	NA	NA	NA					
19_5_129	MW-10	Part 115	Zinc	mg/l	86%	6	0	6	2	14	0.863	0.858	0.931	1	0	1	0	2	0.317	NA	NA	NA					
20_2_105	MW-13	Appendix III	Boron	mg/l	0%	4	2	5	2	13	0.038	*	0.001	***	0.001	***	4	2	5	2	13	0.038	*	0.001	***	0.001	***
20_2_107	MW-13	Appendix III	Calcium	mg/l	0%	4	2	5	2	13	0.178	0.140	0.130	4	2	5	2	13	0.178	0.140	0.130						
20_2_108	MW-13	Appendix III	Chloride	mg/l	15%	4	2	5	2	13	0.245	0.520	0.243	3	1	5	2	11	0.421	0.716	0.472						
20_2_112	MW-13	Appendix III	Fluoride	mg/l	92%	4	2	5	2	13	0.522	0.579	0.579	1	0	0	0	1	NA	NA	NA						
20_2_120	MW-13	Appendix III	pH, Field	su	0%	4	2	5	2	13	0.195	0.524	0.535	4	2	5	2	13	0.195	0.524	0.535						
20_2_124	MW-13	Appendix III	Sulfate	mg/l	0%	4	2	5	2	13	0.311	0.536	0.426	4	2	5	2	13	0.311	0.536	0.426						
20_2_126	MW-13	Appendix III	Total Dissolved Solids	mg/l	0%	4	2	5	2	13	0.222	0.255	0.208	4	2	5	2	13	0.222	0.255	0.208						
20_3_101	MW-13	Appendix IV	Antimony	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA						
20_3_102	MW-13	Appendix IV	Arsenic	mg/l	69%	4	2	5	2	13	0.469	0.532	0.521	2	0	2	0	4	0.439	0.549	0.534						
20_3_103	MW-13	Appendix IV	Barium	mg/l	0%	4	2	5	2	13	0.137	0.319	0.237	4	2	5	2	13	0.137	0.319	0.237						
20_3_104	MW-13	Appendix IV	Beryllium	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA						
20_3_106	MW-13	Appendix IV	Cadmium	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA						
20_3_109	MW-13	Appendix IV	Chromium	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA						
20_3_110	MW-13	Appendix IV	Cobalt	mg/l	92%	4	2	5	2	13	0.522	0.579	0.579	1	0	0	0	1	NA	NA	NA						
20_3_113	MW-13	Appendix IV	Fluoride (App IV)	mg/l	92%	4	2	5	2	13	0.522	0.579	0.579	1	0	0	0	1	NA	NA	NA						
20_3_115	MW-13	Appendix IV	Lead	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA						
20_3_116	MW-13	Appendix IV	Lithium	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA						
20_3_117	MW-13	Appendix IV	Mercury	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA						
20_3_118	MW-13	Appendix IV	Molybdenum	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA						
20_3_121	MW-13	Appendix IV	Radium-226+228	pci/l	8%	4	2	5	2	13	0.730	0.702	0.923	3	2	5	2	12	0.716	0.757	0.922						
20_3_122	MW-13	Appendix IV	Selenium	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA						

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

LBWL Glacial (State) Downgradient Wells as of February 2025																						H&R	
Table 7: Seasonality Tests (continued)																							
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_125	MW-13	Appendix IV	Thallium	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA		
20_5_111	MW-13	Part 115	Copper	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA		
20_5_114	MW-13	Part 115	Iron	mg/l	8%	4	2	5	2	13	0.117	0.411	0.268	4	1	5	2	12	0.229	0.511	0.415		
20_5_119	MW-13	Part 115	Nickel	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA		
20_5_123	MW-13	Part 115	Silver	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA		
20_5_128	MW-13	Part 115	Vanadium	mg/l	100%	4	2	5	2	13	0.522	0.579	0.579	NA	NA	NA	NA	NA	NA	NA	NA		
20_5_129	MW-13	Part 115	Zinc	mg/l	85%	4	2	5	2	13	0.440	0.596	0.535	1	0	1	0	2	0.317	NA	NA		
21_2_105	MW-14	Appendix III	Boron	mg/l	0%	4	2	4	1	11	0.339	0.474	0.492	4	2	4	1	11	0.339	0.474	0.492		
21_2_107	MW-14	Appendix III	Calcium	mg/l	0%	4	2	4	1	11	0.444	0.756	0.740	4	2	4	1	11	0.444	0.756	0.740		
21_2_108	MW-14	Appendix III	Chloride	mg/l	0%	4	2	4	1	11	0.425	0.517	0.508	4	2	4	1	11	0.425	0.517	0.508		
21_2_112	MW-14	Appendix III	Fluoride	mg/l	91%	4	2	4	1	11	0.626	0.697	0.697	1	0	0	0	1	NA	NA	NA		
21_2_120	MW-14	Appendix III	pH, Field	su	0%	4	2	4	1	11	0.408	0.442	0.439	4	2	4	1	11	0.408	0.442	0.439		
21_2_124	MW-14	Appendix III	Sulfate	mg/l	0%	4	2	4	1	11	0.653	0.215	0.252	4	2	4	1	11	0.653	0.215	0.252		
21_2_126	MW-14	Appendix III	Total Dissolved Solids	mg/l	9%	4	2	4	1	11	0.402	0.226	0.217	4	1	4	1	10	0.479	0.469	0.456		
21_3_101	MW-14	Appendix IV	Antimony	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA		
21_3_102	MW-14	Appendix IV	Arsenic	mg/l	0%	4	2	4	1	11	0.413	0.498	0.588	4	2	4	1	11	0.413	0.498	0.588		
21_3_103	MW-14	Appendix IV	Barium	mg/l	0%	4	2	4	1	11	0.568	0.606	0.608	4	2	4	1	11	0.568	0.606	0.608		
21_3_104	MW-14	Appendix IV	Beryllium	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA		
21_3_106	MW-14	Appendix IV	Cadmium	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA		
21_3_109	MW-14	Appendix IV	Chromium	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA		
21_3_110	MW-14	Appendix IV	Cobalt	mg/l	91%	4	2	4	1	11	0.626	0.697	0.697	1	0	0	0	1	NA	NA	NA		
21_3_113	MW-14	Appendix IV	Fluoride (App IV)	mg/l	91%	4	2	4	1	11	0.626	0.697	0.697	1	0	0	0	1	NA	NA	NA		
21_3_115	MW-14	Appendix IV	Lead	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA		
21_3_116	MW-14	Appendix IV	Lithium	mg/l	0%	4	2	4	1	11	0.471	0.687	0.712	4	2	4	1	11	0.471	0.687	0.712		
21_3_117	MW-14	Appendix IV	Mercury	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA		
21_3_118	MW-14	Appendix IV	Molybdenum	mg/l	0%	4	2	4	1	11	0.626	0.777	0.751	4	2	4	1	11	0.626	0.777	0.751		
21_3_121	MW-14	Appendix IV	Radium-226+228	pci/l	9%	4	2	4	1	11	0.596	0.954	0.970	3	2	4	1	10	0.712	0.962	0.972		
21_3_122	MW-14	Appendix IV	Selenium	mg/l	82%	4	2	4	1	11	0.260	0.314	0.419	0	0	2	0	2	NA	NA	NA		
21_3_125	MW-14	Appendix IV	Thallium	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA		
21_5_111	MW-14	Part 115	Copper	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA		
21_5_114	MW-14	Part 115	Iron	mg/l	0%	4	2	4	1	11	0.661	0.886	0.860	4	2	4	1	11	0.661	0.886	0.860		
21_5_119	MW-14	Part 115	Nickel	mg/l	55%	4	2	4	1	11	1.000	0.999	0.993	4	0	1	0	5	1.000	0.963	0.920		
21_5_123	MW-14	Part 115	Silver	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA		
21_5_128	MW-14	Part 115	Vanadium	mg/l	91%	4	2	4	1	11	0.626	0.697	0.697	1	0	0	0	1	NA	NA	NA		
21_5_129	MW-14	Part 115	Zinc	mg/l	82%	4	2	4	1	11	0.278	0.324	0.307	2	0	0	0	2	NA	NA	NA		
22_2_105	MW-15	Appendix III	Boron	mg/l	0%	4	2	4	1	11	0.083	0.074	0.095	4	2	4	1	11	0.083	0.074	0.095		
22_2_107	MW-15	Appendix III	Calcium	mg/l	0%	4	2	4	1	11	0.112	0.123	0.089	4	2	4	1	11	0.112	0.123	0.089		
22_2_108	MW-15	Appendix III	Chloride	mg/l	0%	4	2	4	1	11	0.180	0.123	0.127	4	2	4	1	11	0.180	0.123	0.127		
22_2_112	MW-15	Appendix III	Fluoride	mg/l	91%	4	2	4	1	11	0.626	0.697	0.697	1	0	0	0	1	NA	NA	NA		
(Table continues on next page)																							
*** p < 0.001, ** p < 0.01, * p < 0.05																							

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full							Without Non-Detects														
						Sample Size					p-Value			Sample Size					p-Value								
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
22_2_120	MW-15	Appendix III	pH, Field	su	0%	4	2	4	1	11	0.139	0.215	0.216	4	2	4	1	11	0.139	0.215	0.216						
22_2_124	MW-15	Appendix III	Sulfate	mg/l	0%	4	2	4	1	11	0.712	0.603	0.602	4	2	4	1	11	0.712	0.603	0.602						
22_2_126	MW-15	Appendix III	Total Dissolved Solids	mg/l	0%	4	2	4	1	11	0.651	0.708	0.695	4	2	4	1	11	0.651	0.708	0.695						
22_3_101	MW-15	Appendix IV	Antimony	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_3_102	MW-15	Appendix IV	Arsenic	mg/l	82%	4	2	4	1	11	0.626	0.697	0.697	2	0	0	0	2	NA	NA	NA						
22_3_103	MW-15	Appendix IV	Barium	mg/l	0%	4	2	4	1	11	0.143	0.205	0.147	4	2	4	1	11	0.143	0.205	0.147						
22_3_104	MW-15	Appendix IV	Beryllium	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_3_106	MW-15	Appendix IV	Cadmium	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_3_109	MW-15	Appendix IV	Chromium	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_3_110	MW-15	Appendix IV	Cobalt	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_3_113	MW-15	Appendix IV	Fluoride (App IV)	mg/l	91%	4	2	4	1	11	0.626	0.697	0.697	1	0	0	0	1	NA	NA	NA						
22_3_115	MW-15	Appendix IV	Lead	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_3_116	MW-15	Appendix IV	Lithium	mg/l	91%	4	2	4	1	11	1.000	0.831	0.933	1	0	0	0	1	NA	NA	NA						
22_3_117	MW-15	Appendix IV	Mercury	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_3_118	MW-15	Appendix IV	Molybdenum	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_3_121	MW-15	Appendix IV	Radium-226+228	pci/l	0%	4	2	4	1	11	0.730	0.483	0.564	4	2	4	1	11	0.730	0.483	0.564						
22_3_122	MW-15	Appendix IV	Selenium	mg/l	36%	4	2	4	1	11	0.137	0.064	0.092	3	2	2	0	7	0.180	0.170	0.148						
22_3_125	MW-15	Appendix IV	Thallium	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_5_111	MW-15	Part 115	Copper	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_5_114	MW-15	Part 115	Iron	mg/l	9%	4	2	4	1	11	0.113	0.375	0.110	3	2	4	1	10	0.115	0.486	0.147						
22_5_119	MW-15	Part 115	Nickel	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_5_123	MW-15	Part 115	Silver	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_5_128	MW-15	Part 115	Vanadium	mg/l	100%	4	2	4	1	11	0.626	0.697	0.697	NA	NA	NA	NA	NA	NA	NA	NA						
22_5_129	MW-15	Part 115	Zinc	mg/l	91%	4	2	4	1	11	0.290	0.206	0.353	0	1	0	0	1	NA	NA	NA						
23_2_105	MW-16A	Appendix III	Boron	mg/l	0%	3	3	3	3	12	0.094	0.047	*	0.021	*	3	3	3	3	12	0.094	0.047	*	0.021	*		
23_2_107	MW-16A	Appendix III	Calcium	mg/l	0%	3	3	3	3	12	0.021	*	0.002	**	0.003	**	3	3	3	3	12	0.021	*	0.002	**	0.003	**
23_2_108	MW-16A	Appendix III	Chloride	mg/l	0%	3	3	3	3	12	0.113	0.079	0.078	3	3	3	3	12	0.113	0.079	0.078						
23_2_112	MW-16A	Appendix III	Fluoride	mg/l	92%	3	3	3	3	12	0.861	0.758	0.953	1	0	0	0	1	NA	NA	NA						
23_2_120	MW-16A	Appendix III	pH, Field	su	0%	3	3	3	3	12	0.740	0.542	0.548	3	3	3	3	12	0.740	0.542	0.548						
23_2_124	MW-16A	Appendix III	Sulfate	mg/l	0%	3	3	3	3	12	0.052	0.044	*	0.019	*	3	3	3	3	12	0.052	0.044	*	0.019	*		
23_2_126	MW-16A	Appendix III	Total Dissolved Solids	mg/l	0%	3	3	3	3	12	0.033	*	0.002	**	0.002	**	3	3	3	3	12	0.033	*	0.002	**	0.002	**
23_3_101	MW-16A	Appendix IV	Antimony	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
23_3_102	MW-16A	Appendix IV	Arsenic	mg/l	0%	3	3	3	3	12	0.490	0.647	0.616	3	3	3	3	12	0.490	0.647	0.616						
23_3_103	MW-16A	Appendix IV	Barium	mg/l	0%	3	3	3	3	12	0.015	*	0.000	***	0.000	***	3	3	3	3	12	0.015	*	0.000	***	0.000	***
23_3_104	MW-16A	Appendix IV	Beryllium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
23_3_106	MW-16A	Appendix IV	Cadmium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
23_3_109	MW-16A	Appendix IV	Chromium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
23_3_110	MW-16A	Appendix IV	Cobalt	mg/l	92%	3	3	3	3	12	0.392	0.441	0.441	1	0	0	0	1	NA	NA	NA	NA	NA	NA	NA		
23_3_113	MW-16A	Appendix IV	Fluoride (App IV)	mg/l	92%	3	3	3	3	12	0.861	0.758	0.953	1	0	0	0	1	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
23_3_115	MW-16A	Appendix IV	Lead	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
23_3_116	MW-16A	Appendix IV	Lithium	mg/l	83%	3	3	3	3	12	0.392	0.441	0.441	2	0	0	0	2	NA	NA	NA
23_3_117	MW-16A	Appendix IV	Mercury	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
23_3_118	MW-16A	Appendix IV	Molybdenum	mg/l	92%	3	3	3	3	12	0.392	0.441	0.441	1	0	0	0	1	NA	NA	NA
23_3_121	MW-16A	Appendix IV	Radium-226+228	pci/l	0%	3	3	3	3	12	0.875	0.805	0.901	3	3	3	3	12	0.875	0.805	0.901
23_3_122	MW-16A	Appendix IV	Selenium	mg/l	92%	3	3	3	3	12	0.392	0.441	0.441	0	0	0	1	1	NA	NA	NA
23_3_125	MW-16A	Appendix IV	Thallium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
23_5_111	MW-16A	Part 115	Copper	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
23_5_114	MW-16A	Part 115	Iron	mg/l	0%	3	3	3	3	12	0.057	0.052	0.042 *	3	3	3	3	12	0.057	0.052	0.042 *
23_5_119	MW-16A	Part 115	Nickel	mg/l	92%	3	3	3	3	12	0.392	0.441	0.441	1	0	0	0	1	NA	NA	NA
23_5_123	MW-16A	Part 115	Silver	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
23_5_128	MW-16A	Part 115	Vanadium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
23_5_129	MW-16A	Part 115	Zinc	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_2_105	MW-16B	Appendix III	Boron	mg/l	0%	3	3	3	3	12	0.118	0.052	0.057	3	3	3	3	12	0.118	0.052	0.057
24_2_107	MW-16B	Appendix III	Calcium	mg/l	0%	3	3	3	3	12	0.183	0.178	0.184	3	3	3	3	12	0.183	0.178	0.184
24_2_108	MW-16B	Appendix III	Chloride	mg/l	42%	3	3	3	3	12	0.279	0.252	0.241	2	2	2	1	7	0.254	0.357	0.258
24_2_112	MW-16B	Appendix III	Fluoride	mg/l	67%	3	3	3	3	12	0.224	0.286	0.325	2	0	2	0	4	0.439	0.412	0.413
24_2_120	MW-16B	Appendix III	pH, Field	su	0%	3	3	3	3	12	0.347	0.500	0.504	3	3	3	3	12	0.347	0.500	0.504
24_2_124	MW-16B	Appendix III	Sulfate	mg/l	0%	3	3	3	3	12	0.070	0.086	0.063	3	3	3	3	12	0.070	0.086	0.063
24_2_126	MW-16B	Appendix III	Total Dissolved Solids	mg/l	0%	3	3	3	3	12	0.091	0.132	0.134	3	3	3	3	12	0.091	0.132	0.134
24_3_101	MW-16B	Appendix IV	Antimony	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_3_102	MW-16B	Appendix IV	Arsenic	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_3_103	MW-16B	Appendix IV	Barium	mg/l	0%	3	3	3	3	12	0.073	0.100	0.097	3	3	3	3	12	0.073	0.100	0.097
24_3_104	MW-16B	Appendix IV	Beryllium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_3_106	MW-16B	Appendix IV	Cadmium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_3_109	MW-16B	Appendix IV	Chromium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_3_110	MW-16B	Appendix IV	Cobalt	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_3_113	MW-16B	Appendix IV	Fluoride (App IV)	mg/l	67%	3	3	3	3	12	0.224	0.286	0.325	2	0	2	0	4	0.439	0.412	0.413
24_3_115	MW-16B	Appendix IV	Lead	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_3_116	MW-16B	Appendix IV	Lithium	mg/l	0%	3	3	3	3	12	0.222	0.234	0.236	3	3	3	3	12	0.222	0.234	0.236
24_3_117	MW-16B	Appendix IV	Mercury	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_3_118	MW-16B	Appendix IV	Molybdenum	mg/l	0%	3	3	3	3	12	0.178	0.331	0.311	3	3	3	3	12	0.178	0.331	0.311
24_3_121	MW-16B	Appendix IV	Radium-226+228	pci/l	0%	3	3	3	3	12	0.764	0.551	0.607	3	3	3	3	12	0.764	0.551	0.607
24_3_122	MW-16B	Appendix IV	Selenium	mg/l	92%	3	3	3	3	12	0.300	0.385	0.415	0	0	0	1	1	NA	NA	NA
24_3_125	MW-16B	Appendix IV	Thallium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_5_111	MW-16B	Part 115	Copper	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_5_114	MW-16B	Part 115	Iron	mg/l	0%	3	3	3	3	12	0.281	0.465	0.405	3	3	3	3	12	0.281	0.465	0.405
24_5_119	MW-16B	Part 115	Nickel	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA
24_5_123	MW-16B	Part 115	Silver	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	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						
24_5_128	MW-16B	Part 115	Vanadium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA					
24_5_129	MW-16B	Part 115	Zinc	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_2_105	MW-100A	Appendix III	Boron	mg/l	10%	3	0	4	3	10	0.295	0.367	0.396	2	0	4	3	9	0.700	0.755	0.755						
30_2_107	MW-100A	Appendix III	Calcium	mg/l	0%	3	0	4	3	10	0.056	0.014	*	0.013	*	3	0	4	3	10	0.056	0.014	*	0.013	*		
30_2_108	MW-100A	Appendix III	Chloride	mg/l	0%	3	0	4	3	10	0.200	0.193	0.193	3	0	4	3	10	0.200	0.193	0.193						
30_2_112	MW-100A	Appendix III	Fluoride	mg/l	70%	3	0	4	3	10	0.244	0.282	0.295	2	0	1	0	3	1.000	0.989	0.907						
30_2_120	MW-100A	Appendix III	pH, Field	su	0%	3	0	4	3	10	0.585	0.594	0.596	3	0	4	3	10	0.585	0.594	0.596						
30_2_124	MW-100A	Appendix III	Sulfate	mg/l	0%	3	0	4	3	10	0.137	0.072	0.075	3	0	4	3	10	0.137	0.072	0.075						
30_2_126	MW-100A	Appendix III	Total Dissolved Solids	mg/l	0%	3	0	4	3	10	0.055	0.131	0.141	3	0	4	3	10	0.055	0.131	0.141						
30_3_101	MW-100A	Appendix IV	Antimony	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_3_102	MW-100A	Appendix IV	Arsenic	mg/l	0%	3	0	4	3	10	0.221	0.210	0.205	3	0	4	3	10	0.221	0.210	0.205						
30_3_103	MW-100A	Appendix IV	Barium	mg/l	0%	3	0	4	3	10	0.274	0.239	0.239	3	0	4	3	10	0.274	0.239	0.239						
30_3_104	MW-100A	Appendix IV	Beryllium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_3_106	MW-100A	Appendix IV	Cadmium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_3_109	MW-100A	Appendix IV	Chromium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_3_110	MW-100A	Appendix IV	Cobalt	mg/l	90%	3	0	4	3	10	0.311	0.350	0.350	1	0	0	0	1	NA	NA	NA	NA					
30_3_113	MW-100A	Appendix IV	Fluoride (App IV)	mg/l	70%	3	0	4	3	10	0.244	0.282	0.295	2	0	1	0	3	1.000	0.989	0.907						
30_3_115	MW-100A	Appendix IV	Lead	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_3_116	MW-100A	Appendix IV	Lithium	mg/l	0%	3	0	4	3	10	0.125	0.101	0.108	3	0	4	3	10	0.125	0.101	0.108						
30_3_117	MW-100A	Appendix IV	Mercury	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_3_118	MW-100A	Appendix IV	Molybdenum	mg/l	0%	3	0	4	3	10	0.113	0.071	0.064	3	0	4	3	10	0.113	0.071	0.064						
30_3_121	MW-100A	Appendix IV	Radium-226+228	pci/l	0%	3	0	4	3	10	0.102	0.057	0.062	3	0	4	3	10	0.102	0.057	0.062						
30_3_122	MW-100A	Appendix IV	Selenium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_3_125	MW-100A	Appendix IV	Thallium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_5_111	MW-100A	Part 115	Copper	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_5_114	MW-100A	Part 115	Iron	mg/l	0%	3	0	4	3	10	0.231	0.345	0.315	3	0	4	3	10	0.231	0.345	0.315						
30_5_119	MW-100A	Part 115	Nickel	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_5_123	MW-100A	Part 115	Silver	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_5_128	MW-100A	Part 115	Vanadium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
30_5_129	MW-100A	Part 115	Zinc	mg/l	80%	3	0	4	3	10	1.000	0.808	0.680	2	0	0	0	2	NA	NA	NA	NA					
31_2_105	MW-100B	Appendix III	Boron	mg/l	0%	3	0	4	3	10	0.040	*	0.037	*	0.031	*	3	0	4	3	10	0.040	*	0.037	*	0.031	*
31_2_107	MW-100B	Appendix III	Calcium	mg/l	0%	3	0	4	3	10	0.030	*	0.028	*	0.027	*	3	0	4	3	10	0.030	*	0.028	*	0.027	*
31_2_108	MW-100B	Appendix III	Chloride	mg/l	0%	3	0	4	3	10	0.170	0.328	0.345	3	0	4	3	10	0.170	0.328	0.345						
31_2_112	MW-100B	Appendix III	Fluoride	mg/l	70%	3	0	4	3	10	0.914	0.929	0.807	1	0	1	1	3	0.368	NA	NA						
31_2_120	MW-100B	Appendix III	pH, Field	su	0%	3	0	4	3	10	0.048	*	0.011	*	0.011	*	3	0	4	3	10	0.048	*	0.011	*	0.011	*
31_2_124	MW-100B	Appendix III	Sulfate	mg/l	0%	3	0	4	3	10	0.032	*	0.019	*	0.015	*	3	0	4	3	10	0.032	*	0.019	*	0.015	*
31_2_126	MW-100B	Appendix III	Total Dissolved Solids	mg/l	0%	3	0	4	3	10	0.037	*	0.024	*	0.029	*	3	0	4	3	10	0.037	*	0.024	*	0.029	*
31_3_101	MW-100B	Appendix IV	Antimony	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
31_3_102	MW-100B	Appendix IV	Arsenic	mg/l	0%	3	0	4	3	10	0.849	0.868	0.821	3	0	4	3	10	0.849	0.868	0.821						

(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
31_3_103	MW-100B	Appendix IV	Barium	mg/l	0%	3	0	4	3	10	0.155	0.139	0.137	3	0	4	3	10	0.155	0.139	0.137
31_3_104	MW-100B	Appendix IV	Beryllium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_3_106	MW-100B	Appendix IV	Cadmium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_3_109	MW-100B	Appendix IV	Chromium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_3_110	MW-100B	Appendix IV	Cobalt	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_3_113	MW-100B	Appendix IV	Fluoride (App IV)	mg/l	70%	3	0	4	3	10	0.914	0.929	0.807	1	0	1	1	3	0.368	NA	NA
31_3_115	MW-100B	Appendix IV	Lead	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_3_116	MW-100B	Appendix IV	Lithium	mg/l	0%	3	0	4	3	10	0.294	0.308	0.305	3	0	4	3	10	0.294	0.308	0.305
31_3_117	MW-100B	Appendix IV	Mercury	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_3_118	MW-100B	Appendix IV	Molybdenum	mg/l	0%	3	0	4	3	10	0.398	0.583	0.625	3	0	4	3	10	0.398	0.583	0.625
31_3_121	MW-100B	Appendix IV	Radium-226+228	pci/l	10%	3	0	4	3	10	0.283	0.357	0.375	2	0	4	3	9	0.378	0.610	0.637
31_3_122	MW-100B	Appendix IV	Selenium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_3_125	MW-100B	Appendix IV	Thallium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_5_111	MW-100B	Part 115	Copper	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_5_114	MW-100B	Part 115	Iron	mg/l	0%	3	0	4	3	10	0.407	0.447	0.583	3	0	4	3	10	0.407	0.447	0.583
31_5_119	MW-100B	Part 115	Nickel	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_5_123	MW-100B	Part 115	Silver	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_5_128	MW-100B	Part 115	Vanadium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA
31_5_129	MW-100B	Part 115	Zinc	mg/l	90%	3	0	4	3	10	0.311	0.350	0.350	1	0	0	0	1	NA	NA	NA

*** 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_105	MW-2	Appendix III	Boron	mg/l	17	0	0%	Parametric	Lognormal MLE	-0.000142	0.085	↔
11_2_107	MW-2	Appendix III	Calcium	mg/l	17	0	0%	Parametric	Lognormal MLE	-0.000225	0.000	↓
11_2_108	MW-2	Appendix III	Chloride	mg/l	17	0	0%	Parametric	Lognormal MLE	-0.0000554	0.260	↔
11_2_120	MW-2	Appendix III	pH, Field	su	18	0	0%	Parametric	Lognormal MLE	0.00000713	0.161	↔
11_2_124	MW-2	Appendix III	Sulfate	mg/l	17	0	0%	Parametric	Lognormal MLE	-0.000492	0.000	↓
11_2_126	MW-2	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	Parametric	Lognormal MLE	-0.000228	0.000	↓
11_3_103	MW-2	Appendix IV	Barium	mg/l	18	0	0%	Parametric	Lognormal MLE	-0.0000848	0.013	↔
11_3_116	MW-2	Appendix IV	Lithium	mg/l	18	0	0%	Parametric	Lognormal MLE	-0.000232	0.000	↓
11_3_118	MW-2	Appendix IV	Molybdenum	mg/l	18	0	0%	Parametric	Lognormal MLE	0.000125	0.081	↔
11_5_114	MW-2	Part 115	Iron	mg/l	18	0	0%	Parametric	Lognormal MLE	-0.000182	0.348	↔
11_5_119	MW-2	Part 115	Nickel	mg/l	18	0	0%	Parametric	Lognormal MLE	-0.000335	0.000	↓
12_2_105	MW-3	Appendix III	Boron	mg/l	9	0	0%	Parametric	Lognormal MLE	-0.0000322	0.235	↔
12_2_107	MW-3	Appendix III	Calcium	mg/l	9	0	0%	Parametric	Lognormal MLE	0.0000220	0.502	↔
12_2_108	MW-3	Appendix III	Chloride	mg/l	9	0	0%	Parametric	Lognormal MLE	0.0000632	0.022	↔
12_2_120	MW-3	Appendix III	pH, Field	su	9	0	0%	Parametric	Lognormal MLE	0.0000130	0.015	↔
12_2_124	MW-3	Appendix III	Sulfate	mg/l	9	0	0%	Parametric	Lognormal MLE	-0.00000468	0.821	↔
12_2_126	MW-3	Appendix III	Total Dissolved Solids	mg/l	9	0	0%	Nonparametric	MK	-0.0663	0.002	↓
12_3_102	MW-3	Appendix IV	Arsenic	mg/l	9	0	0%	Nonparametric	MK	0	1.000	↔
12_3_103	MW-3	Appendix IV	Barium	mg/l	9	0	0%	Parametric	Lognormal MLE	-0.000193	0.000	↓
12_3_116	MW-3	Appendix IV	Lithium	mg/l	9	0	0%	Parametric	Lognormal MLE	-0.0000806	0.032	↔
12_3_118	MW-3	Appendix IV	Molybdenum	mg/l	9	0	0%	Parametric	Lognormal MLE	-0.00000865	0.840	↔
12_3_121	MW-3	Appendix IV	Radium-226+228	pci/l	9	1	11%	Parametric	Lognormal MLE	-0.000815	0.065	↔
12_5_114	MW-3	Part 115	Iron	mg/l	9	0	0%	Parametric	Lognormal MLE	-0.000187	0.000	↓
13_2_105	MW-5	Appendix III	Boron	mg/l	17	0	0%	Parametric	Lognormal MLE	-0.000319	0.198	↔
13_2_107	MW-5	Appendix III	Calcium	mg/l	17	0	0%	Parametric	Lognormal MLE	-0.000406	0.001	↓
13_2_108	MW-5	Appendix III	Chloride	mg/l	17	0	0%	Nonparametric	MK	-0.0262	0.000	↓
13_2_120	MW-5	Appendix III	pH, Field	su	18	0	0%	Nonparametric	MK	0.0000196	0.762	↔
13_2_124	MW-5	Appendix III	Sulfate	mg/l	17	0	0%	Parametric	Lognormal MLE	-0.000668	0.000	↓
13_2_126	MW-5	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	Parametric	Lognormal MLE	-0.000493	0.000	↓
13_3_103	MW-5	Appendix IV	Barium	mg/l	18	0	0%	Parametric	Lognormal MLE	-0.0000639	0.338	↔
13_3_116	MW-5	Appendix IV	Lithium	mg/l	18	0	0%	Parametric	Lognormal MLE	-0.0000158	0.922	↔
13_3_118	MW-5	Appendix IV	Molybdenum	mg/l	18	0	0%	Parametric	Lognormal MLE	0.000184	0.353	↔
13_3_121	MW-5	Appendix IV	Radium-226+228	pci/l	18	1	6%	Parametric	Lognormal MLE	-0.00000906	0.973	↔
13_5_114	MW-5	Part 115	Iron	mg/l	18	1	6%	Parametric	Lognormal MLE	-0.000228	0.698	↔
13_5_119	MW-5	Part 115	Nickel	mg/l	18	0	0%	Parametric	Lognormal MLE	-0.000613	0.000	↓
13_5_129	MW-5	Part 115	Zinc	mg/l	18	4	22%	Parametric	Lognormal MLE	-0.000726	0.085	↔
14_2_105	MW-6	Appendix III	Boron	mg/l	17	0	0%	Parametric	Lognormal MLE	0.0000726	0.434	↔
14_2_107	MW-6	Appendix III	Calcium	mg/l	17	0	0%	Parametric	Lognormal MLE	0.000112	0.005	↑
14_2_108	MW-6	Appendix III	Chloride	mg/l	17	0	0%	Parametric	Lognormal MLE	0.000148	0.071	↔
14_2_120	MW-6	Appendix III	pH, Field	su	18	0	0%	Parametric	Lognormal MLE	0.00000901	0.286	↔
14_2_124	MW-6	Appendix III	Sulfate	mg/l	17	0	0%	Parametric	Lognormal MLE	0.0000572	0.596	↔
14_2_126	MW-6	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	Parametric	Lognormal MLE	0.0000700	0.152	↔
14_3_103	MW-6	Appendix IV	Barium	mg/l	18	0	0%	Parametric	Lognormal MLE	0.0000607	0.219	↔

(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
14_3_116	MW-6	Appendix IV	Lithium	mg/l	18	0	0%	Parametric	Lognormal MLE	0.0000901	0.214	↔
14_3_118	MW-6	Appendix IV	Molybdenum	mg/l	18	0	0%	Parametric	Lognormal MLE	-0.000180	0.077	↔
14_5_119	MW-6	Part 115	Nickel	mg/l	18	5	28%	Nonparametric	MK	-0.00000122	0.024	↔
15_2_105	MW-7	Appendix III	Boron	mg/l	14	0	0%	Parametric	Lognormal MLE	-0.000123	0.365	↔
15_2_107	MW-7	Appendix III	Calcium	mg/l	14	0	0%	Nonparametric	MK	-0.000772	0.913	↔
15_2_108	MW-7	Appendix III	Chloride	mg/l	14	0	0%	Parametric	Lognormal MLE	0.000114	0.007	↑
15_2_120	MW-7	Appendix III	pH, Field	su	14	0	0%	Nonparametric	MK	-0.0000538	0.350	↔
15_2_124	MW-7	Appendix III	Sulfate	mg/l	14	0	0%	Parametric	Lognormal MLE	-0.0000101	0.905	↔
15_2_126	MW-7	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	Nonparametric	MK	0.0218	0.443	↔
15_3_102	MW-7	Appendix IV	Arsenic	mg/l	14	0	0%	Nonparametric	MK	-0.00000141	0.028	↔
15_3_103	MW-7	Appendix IV	Barium	mg/l	14	0	0%	Parametric	Lognormal MLE	-0.000153	0.027	↔
15_3_116	MW-7	Appendix IV	Lithium	mg/l	14	0	0%	Parametric	Lognormal MLE	-0.000246	0.000	↓
15_3_118	MW-7	Appendix IV	Molybdenum	mg/l	14	0	0%	Nonparametric	MK	-0.0000865	0.207	↔
15_3_121	MW-7	Appendix IV	Radium-226+228	pci/l	14	0	0%	Parametric	Lognormal MLE	-0.000486	0.232	↔
15_5_114	MW-7	Part 115	Iron	mg/l	14	0	0%	Parametric	Lognormal MLE	-0.000185	0.254	↔
16_2_105	MW-7C	Appendix III	Boron	mg/l	13	0	0%	Parametric	Lognormal MLE	-0.0000447	0.122	↔
16_2_107	MW-7C	Appendix III	Calcium	mg/l	13	0	0%	Nonparametric	MK	-0.0226	0.087	↔
16_2_108	MW-7C	Appendix III	Chloride	mg/l	13	0	0%	Parametric	Lognormal MLE	-0.0000365	0.414	↔
16_2_120	MW-7C	Appendix III	pH, Field	su	13	0	0%	Parametric	Lognormal MLE	0.000000125	0.990	↔
16_2_124	MW-7C	Appendix III	Sulfate	mg/l	13	0	0%	Parametric	Lognormal MLE	-0.000107	0.000	↓
16_2_126	MW-7C	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	Parametric	Lognormal MLE	-0.000133	0.000	↓
16_3_102	MW-7C	Appendix IV	Arsenic	mg/l	13	0	0%	Nonparametric	MK	0	0.895	↔
16_3_103	MW-7C	Appendix IV	Barium	mg/l	13	0	0%	Parametric	Lognormal MLE	-0.000111	0.002	↓
16_3_116	MW-7C	Appendix IV	Lithium	mg/l	13	0	0%	Parametric	Lognormal MLE	-0.000126	0.000	↓
16_3_118	MW-7C	Appendix IV	Molybdenum	mg/l	13	0	0%	Parametric	Lognormal MLE	-0.0000782	0.022	↔
16_3_121	MW-7C	Appendix IV	Radium-226+228	pci/l	13	0	0%	Parametric	Lognormal MLE	-0.000193	0.673	↔
16_5_114	MW-7C	Part 115	Iron	mg/l	13	0	0%	Parametric	Lognormal MLE	0.0000155	0.748	↔
16_5_119	MW-7C	Part 115	Nickel	mg/l	13	0	0%	Nonparametric	MK	-0.00000146	0.011	↔
17_2_105	MW-8	Appendix III	Boron	mg/l	14	1	7%	Parametric	Lognormal MLE	-0.00000156	0.996	↔
17_2_107	MW-8	Appendix III	Calcium	mg/l	14	0	0%	Parametric	Lognormal MLE	-0.0000169	0.619	↔
17_2_108	MW-8	Appendix III	Chloride	mg/l	14	2	14%	Parametric	Lognormal MLE	0.00102	0.056	↔
17_2_120	MW-8	Appendix III	pH, Field	su	14	0	0%	Nonparametric	MK	0	1.000	↔
17_2_124	MW-8	Appendix III	Sulfate	mg/l	14	0	0%	Parametric	Lognormal MLE	0.000281	0.336	↔
17_2_126	MW-8	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	Parametric	Lognormal MLE	0.0000330	0.422	↔
17_3_103	MW-8	Appendix IV	Barium	mg/l	14	0	0%	Parametric	Lognormal MLE	0.00000884	0.916	↔
17_3_116	MW-8	Appendix IV	Lithium	mg/l	14	6	43%	Parametric	Lognormal MLE	0.000245	0.448	↔
17_3_121	MW-8	Appendix IV	Radium-226+228	pci/l	14	0	0%	Parametric	Lognormal MLE	0.000145	0.823	↔
18_2_107	MW-9	Appendix III	Calcium	mg/l	14	0	0%	Parametric	Lognormal MLE	0.000284	0.000	↑
18_2_120	MW-9	Appendix III	pH, Field	su	14	0	0%	Parametric	Lognormal MLE	-0.00000799	0.574	↔
18_2_126	MW-9	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	Parametric	Lognormal MLE	0.000308	0.000	↑
18_3_103	MW-9	Appendix IV	Barium	mg/l	14	0	0%	Parametric	Lognormal MLE	0.000217	0.000	↑
19_2_105	MW-10	Appendix III	Boron	mg/l	14	1	7%	Parametric	Lognormal MLE	-0.000130	0.214	↔
19_2_107	MW-10	Appendix III	Calcium	mg/l	14	0	0%	Parametric	Lognormal MLE	-0.0000657	0.104	↔

(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
19_2_120	MW-10	Appendix III	pH, Field	su	14	0	0%	Parametric	Lognormal MLE	0.00000354	0.844	↔
19_2_124	MW-10	Appendix III	Sulfate	mg/l	14	0	0%	Parametric	Lognormal MLE	0.000108	0.527	↔
19_2_126	MW-10	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	Parametric	Lognormal MLE	-0.0000670	0.220	↔
19_3_103	MW-10	Appendix IV	Barium	mg/l	14	0	0%	Parametric	Lognormal MLE	-0.000225	0.000	↓
19_3_121	MW-10	Appendix IV	Radium-226+228	pci/l	14	0	0%	Parametric	Lognormal MLE	0.00113	0.006	↑
20_2_105	MW-13	Appendix III	Boron	mg/l	13	0	0%	Parametric	Lognormal MLE	0.0000400	0.696	↔
20_2_107	MW-13	Appendix III	Calcium	mg/l	13	0	0%	Parametric	Lognormal MLE	0.000360	0.002	↑
20_2_108	MW-13	Appendix III	Chloride	mg/l	13	2	15%	Parametric	Lognormal MLE	0.000922	0.138	↔
20_2_120	MW-13	Appendix III	pH, Field	su	13	0	0%	Parametric	Lognormal MLE	-0.0000210	0.420	↔
20_2_124	MW-13	Appendix III	Sulfate	mg/l	13	0	0%	Parametric	Lognormal MLE	0.00183	0.000	↑
20_2_126	MW-13	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	Parametric	Lognormal MLE	0.000460	0.000	↑
20_3_103	MW-13	Appendix IV	Barium	mg/l	13	0	0%	Parametric	Lognormal MLE	0.000497	0.000	↑
20_3_121	MW-13	Appendix IV	Radium-226+228	pci/l	13	1	8%	Parametric	Lognormal MLE	-0.000225	0.823	↔
20_5_114	MW-13	Part 115	Iron	mg/l	13	1	8%	Nonparametric	MK	0.000359	0.003	↑
21_2_105	MW-14	Appendix III	Boron	mg/l	11	0	0%	Parametric	Lognormal MLE	-0.000126	0.011	↔
21_2_107	MW-14	Appendix III	Calcium	mg/l	11	0	0%	Parametric	Lognormal MLE	0.000224	0.000	↑
21_2_108	MW-14	Appendix III	Chloride	mg/l	11	0	0%	Parametric	Lognormal MLE	-0.0000736	0.194	↔
21_2_120	MW-14	Appendix III	pH, Field	su	11	0	0%	Parametric	Lognormal MLE	-0.00000597	0.621	↔
21_2_124	MW-14	Appendix III	Sulfate	mg/l	11	0	0%	Nonparametric	MK	-0.0311	0.001	↓
21_2_126	MW-14	Appendix III	Total Dissolved Solids	mg/l	11	1	9%	Parametric	Lognormal MLE	0.00415	0.399	↔
21_3_102	MW-14	Appendix IV	Arsenic	mg/l	11	0	0%	Parametric	Lognormal MLE	0.000374	0.128	↔
21_3_103	MW-14	Appendix IV	Barium	mg/l	11	0	0%	Nonparametric	MK	0.0000171	0.310	↔
21_3_116	MW-14	Appendix IV	Lithium	mg/l	11	0	0%	Parametric	Lognormal MLE	-0.000241	0.000	↓
21_3_118	MW-14	Appendix IV	Molybdenum	mg/l	11	0	0%	Parametric	Lognormal MLE	-0.000222	0.042	↔
21_3_121	MW-14	Appendix IV	Radium-226+228	pci/l	11	1	9%	Parametric	Lognormal MLE	-0.0000561	0.963	↔
21_5_114	MW-14	Part 115	Iron	mg/l	11	0	0%	Parametric	Lognormal MLE	0.000796	0.000	↑
22_2_105	MW-15	Appendix III	Boron	mg/l	11	0	0%	Parametric	Lognormal MLE	-0.0000348	0.814	↔
22_2_107	MW-15	Appendix III	Calcium	mg/l	11	0	0%	Parametric	Lognormal MLE	0.0000580	0.760	↔
22_2_108	MW-15	Appendix III	Chloride	mg/l	11	0	0%	Parametric	Lognormal MLE	0.000119	0.567	↔
22_2_120	MW-15	Appendix III	pH, Field	su	11	0	0%	Parametric	Lognormal MLE	-0.0000482	0.003	↓
22_2_124	MW-15	Appendix III	Sulfate	mg/l	11	0	0%	Nonparametric	MK	-0.115	0.011	↔
22_2_126	MW-15	Appendix III	Total Dissolved Solids	mg/l	11	0	0%	Parametric	Lognormal MLE	-0.000163	0.330	↔
22_3_103	MW-15	Appendix IV	Barium	mg/l	11	0	0%	Parametric	Lognormal MLE	0.0000967	0.675	↔
22_3_121	MW-15	Appendix IV	Radium-226+228	pci/l	11	0	0%	Parametric	Lognormal MLE	-0.0000623	0.942	↔
22_3_122	MW-15	Appendix IV	Selenium	mg/l	11	4	36%	Parametric	Lognormal MLE	-0.00146	0.287	↔
22_5_114	MW-15	Part 115	Iron	mg/l	11	1	9%	Parametric	Lognormal MLE	0.00186	0.120	↔
23_2_105	MW-16A	Appendix III	Boron	mg/l	12	0	0%	Parametric	Lognormal MLE	0.000894	0.020	↔
23_2_107	MW-16A	Appendix III	Calcium	mg/l	12	0	0%	Parametric	Lognormal MLE	0.000371	0.026	↔
23_2_108	MW-16A	Appendix III	Chloride	mg/l	12	0	0%	Parametric	Lognormal MLE	0.000327	0.000	↑
23_2_120	MW-16A	Appendix III	pH, Field	su	12	0	0%	Parametric	Lognormal MLE	-0.0000252	0.151	↔
23_2_124	MW-16A	Appendix III	Sulfate	mg/l	12	0	0%	Parametric	Lognormal MLE	0.00138	0.002	↑
23_2_126	MW-16A	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	Parametric	Lognormal MLE	0.000339	0.018	↔
23_3_102	MW-16A	Appendix IV	Arsenic	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.000277	0.467	↔

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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
23_3_103	MW-16A	Appendix IV	Barium	mg/l	12	0	0%	Parametric	Lognormal MLE	0.000313	0.113	↔
23_3_121	MW-16A	Appendix IV	Radium-226+228	pci/l	12	0	0%	Parametric	Lognormal MLE	-0.000564	0.630	↔
23_5_114	MW-16A	Part 115	Iron	mg/l	12	0	0%	Parametric	Lognormal MLE	0.0000978	0.676	↔
24_2_105	MW-16B	Appendix III	Boron	mg/l	12	0	0%	Nonparametric	MK	-0.0000198	0.028	↔
24_2_107	MW-16B	Appendix III	Calcium	mg/l	12	0	0%	Parametric	Lognormal MLE	0.000121	0.003	↑
24_2_108	MW-16B	Appendix III	Chloride	mg/l	12	5	42%	Parametric	Lognormal MLE	-0.000852	0.072	↔
24_2_120	MW-16B	Appendix III	pH, Field	su	12	0	0%	Parametric	Lognormal MLE	0.00000444	0.776	↔
24_2_124	MW-16B	Appendix III	Sulfate	mg/l	12	0	0%	Parametric	Lognormal MLE	0.000353	0.000	↑
24_2_126	MW-16B	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.00000601	0.851	↔
24_3_103	MW-16B	Appendix IV	Barium	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.000000681	0.987	↔
24_3_116	MW-16B	Appendix IV	Lithium	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.000137	0.053	↔
24_3_118	MW-16B	Appendix IV	Molybdenum	mg/l	12	0	0%	Nonparametric	MK	0	0.805	↔
24_3_121	MW-16B	Appendix IV	Radium-226+228	pci/l	12	0	0%	Parametric	Lognormal MLE	-0.000666	0.305	↔
24_5_114	MW-16B	Part 115	Iron	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.000894	0.003	↓
30_2_105	MW-100A	Appendix III	Boron	mg/l	10	1	10%	Nonparametric	MK	0	0.117	↔
30_2_107	MW-100A	Appendix III	Calcium	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.0000774	0.007	↓
30_2_108	MW-100A	Appendix III	Chloride	mg/l	10	0	0%	Nonparametric	MK	0	0.117	↔
30_2_120	MW-100A	Appendix III	pH, Field	su	10	0	0%	Parametric	Lognormal MLE	-0.0000158	0.458	↔
30_2_124	MW-100A	Appendix III	Sulfate	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000515	0.238	↔
30_2_126	MW-100A	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000219	0.000	↓
30_3_102	MW-100A	Appendix IV	Arsenic	mg/l	10	0	0%	Parametric	Lognormal MLE	0.000181	0.626	↔
30_3_103	MW-100A	Appendix IV	Barium	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000154	0.000	↓
30_3_116	MW-100A	Appendix IV	Lithium	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000964	0.000	↓
30_3_118	MW-100A	Appendix IV	Molybdenum	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.00105	0.000	↓
30_3_121	MW-100A	Appendix IV	Radium-226+228	pci/l	10	0	0%	Parametric	Lognormal MLE	-0.000373	0.734	↔
30_5_114	MW-100A	Part 115	Iron	mg/l	10	0	0%	Parametric	Lognormal MLE	0.000816	0.348	↔
31_2_105	MW-100B	Appendix III	Boron	mg/l	10	0	0%	Parametric	Lognormal MLE	0.000282	0.089	↔
31_2_107	MW-100B	Appendix III	Calcium	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000171	0.015	↔
31_2_108	MW-100B	Appendix III	Chloride	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000425	0.000	↓
31_2_120	MW-100B	Appendix III	pH, Field	su	10	0	0%	Parametric	Lognormal MLE	0.0000275	0.177	↔
31_2_124	MW-100B	Appendix III	Sulfate	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000173	0.164	↔
31_2_126	MW-100B	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000212	0.003	↓
31_3_102	MW-100B	Appendix IV	Arsenic	mg/l	10	0	0%	Nonparametric	MK	0	1.000	↔
31_3_103	MW-100B	Appendix IV	Barium	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000220	0.000	↓
31_3_116	MW-100B	Appendix IV	Lithium	mg/l	10	0	0%	Parametric	Lognormal MLE	0.000177	0.016	↔
31_3_118	MW-100B	Appendix IV	Molybdenum	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000852	0.000	↓
31_3_121	MW-100B	Appendix IV	Radium-226+228	pci/l	10	1	10%	Parametric	Lognormal MLE	-0.00308	0.001	↓
31_5_114	MW-100B	Part 115	Iron	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.0000612	0.843	↔

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_105	MW-2	Appendix III	Boron	mg/l	17	0	0%	0.017281	0.000	↑	-0.0017045	0.000	↓	2020-10-09	0.900	↔
11_2_107	MW-2	Appendix III	Calcium	mg/l	17	0	0%	-0.066931	0.000	↓	-0.0096389	0.708	↔	2023-04-19	0.914	↔
11_2_108	MW-2	Appendix III	Chloride	mg/l	17	0	0%	0.175	0.031	↔	-0.011697	0.005	↓	2020-09-12	0.615	↔
11_2_120	MW-2	Appendix III	pH, Field	su	18	0	0%	0.00096429	0.333	↔	< 0.0001	0.704	↔	2020-08-30	0.225	↔
11_2_124	MW-2	Appendix III	Sulfate	mg/l	17	0	0%	2.0964	0.001	↑	-0.23211	0.000	↓	2020-07-31	0.946	↔
11_2_126	MW-2	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	2.7857	0.005	↑	-0.3187	0.000	↓	2020-07-23	0.926	↔
11_3_102	MW-2	Appendix IV	Arsenic	mg/l	18	15	83%	< 0.0001	0.084	↔	> -0.0001	0.111	↔	2023-08-15	0.414	↔
11_3_103	MW-2	Appendix IV	Barium	mg/l	18	0	0%	< 0.0001	0.792	↔	> -0.0001	0.078	↔	2022-01-31	0.315	↔
11_3_116	MW-2	Appendix IV	Lithium	mg/l	18	0	0%	< 0.0001	0.002	↑	> -0.0001	0.000	↓	2020-10-18	0.902	↔
11_3_118	MW-2	Appendix IV	Molybdenum	mg/l	18	0	0%	< 0.0001	0.005	↑	> -0.0001	0.164	↔	2023-02-07	0.497	↔
11_5_114	MW-2	Part 115	Iron	mg/l	18	0	0%	0.0013009	0.015	↔	-0.0010382	0.020	↔	2022-03-08	0.508	↔
11_5_119	MW-2	Part 115	Nickel	mg/l	18	0	0%	< 0.0001	0.000	↑	> -0.0001	0.000	↓	2020-09-09	0.943	↔
11_5_129	MW-2	Part 115	Zinc	mg/l	18	14	78%	-0.00011429	0.232	↔	> -0.0001	0.838	↔	2020-08-24	0.257	↔
12_2_107	MW-3	Appendix III	Calcium	mg/l	9	0	0%	0.017204	0.169	↔	-0.14595	0.108	↔	2024-08-02	0.563	↔
12_2_108	MW-3	Appendix III	Chloride	mg/l	9	0	0%	0.024586	0.020	↔	-0.005452	0.274	↔	2022-10-25	0.825	↔
12_2_120	MW-3	Appendix III	pH, Field	su	9	0	0%	0.00017362	0.646	↔	< 0.0001	0.536	↔	2022-08-01	0.424	↔
12_3_102	MW-3	Appendix IV	Arsenic	mg/l	9	0	0%	< 0.0001	0.065	↔	> -0.0001	0.376	↔	2024-01-29	0.593	↔
12_3_103	MW-3	Appendix IV	Barium	mg/l	9	0	0%	> -0.0001	0.020	↔	> -0.0001	0.013	↔	2023-07-31	0.954	↔
12_3_116	MW-3	Appendix IV	Lithium	mg/l	9	0	0%	< 0.0001	0.080	↔	> -0.0001	0.007	↓	2021-09-14	0.826	↔
12_3_118	MW-3	Appendix IV	Molybdenum	mg/l	9	0	0%	< 0.0001	0.094	↔	> -0.0001	0.118	↔	2023-03-20	0.617	↔
12_3_121	MW-3	Appendix IV	Radium-226+228	pci/l	9	1	11%	0.0049765	0.195	↔	-0.0022001	0.049	↔	2022-03-31	0.647	↔
12_5_114	MW-3	Part 115	Iron	mg/l	9	0	0%	-0.00027116	0.194	↔	-0.00058978	0.280	↔	2024-01-28	0.724	↔
12_5_123	MW-3	Part 115	Silver	mg/l	9	9	100%	< 0.0001	0.585	↔	> -0.0001	0.134	↔	2024-02-11	0.805	↔
13_2_105	MW-5	Appendix III	Boron	mg/l	17	0	0%	-0.0019943	0.020	↔	0.0027813	0.499	↔	2023-10-16	0.424	↔
13_2_107	MW-5	Appendix III	Calcium	mg/l	17	0	0%	-0.20799	0.010	↓	-0.0045326	0.939	↔	2022-02-01	0.666	↔
13_2_120	MW-5	Appendix III	pH, Field	su	18	0	0%	-0.0008956	0.191	↔	0.00028951	0.148	↔	2021-05-04	0.232	↔
13_2_126	MW-5	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	-1.136	0.049	↔	-0.19614	0.443	↔	2022-01-31	0.729	↔
13_3_103	MW-5	Appendix IV	Barium	mg/l	18	0	0%	> -0.0001	0.009	↓	< 0.0001	0.394	↔	2020-11-06	0.523	↔
13_3_106	MW-5	Appendix IV	Cadmium	mg/l	18	17	94%	< 0.0001	0.240	↔	> -0.0001	0.000	↓	2024-04-19	0.889	↔
13_3_115	MW-5	Appendix IV	Lead	mg/l	18	14	78%	< 0.0001	0.095	↔	> -0.0001	0.105	↔	2022-02-01	0.316	↔
13_3_116	MW-5	Appendix IV	Lithium	mg/l	18	0	0%	< 0.0001	0.751	↔	> -0.0001	0.748	↔	2023-08-20	0.025	↔
13_3_118	MW-5	Appendix IV	Molybdenum	mg/l	18	0	0%	-0.00019947	0.083	↔	< 0.0001	0.020	↔	2020-11-04	0.429	↔
13_3_121	MW-5	Appendix IV	Radium-226+228	pci/l	18	1	6%	0.007466	0.293	↔	-0.00056766	0.382	↔	2020-11-05	0.157	↔
13_5_111	MW-5	Part 115	Copper	mg/l	18	13	72%	< 0.0001	0.805	↔	> -0.0001	0.223	↔	2020-07-20	0.107	↔
13_5_114	MW-5	Part 115	Iron	mg/l	18	1	6%	-0.21679	0.003	↓	> -0.0001	0.917	↔	2020-05-30	0.700	↔
13_5_119	MW-5	Part 115	Nickel	mg/l	18	0	0%	> -0.0001	0.022	↔	> -0.0001	0.023	↔	2020-11-07	0.749	↔
13_5_123	MW-5	Part 115	Silver	mg/l	18	17	94%	< 0.0001	0.218	↔	> -0.0001	0.000	↓	2024-04-30	0.903	↔
13_5_129	MW-5	Part 115	Zinc	mg/l	18	4	22%	< 0.0001	0.650	↔	> -0.0001	0.183	↔	2021-01-26	0.142	↔
14_2_105	MW-6	Appendix III	Boron	mg/l	17	0	0%	0.0030714	0.090	↔	> -0.0001	0.479	↔	2020-08-29	0.393	↔
14_2_107	MW-6	Appendix III	Calcium	mg/l	17	0	0%	0.25193	0.335	↔	0.012097	0.155	↔	2020-08-17	0.465	↔
14_2_108	MW-6	Appendix III	Chloride	mg/l	17	0	0%	0.092857	0.406	↔	0.0028524	0.423	↔	2020-08-14	0.306	↔

(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			
14_2_120	MW-6	Appendix III	pH, Field	su	18	0	0%	0.0024643	0.250	↔	> -0.0001	0.927	↔	2020-08-15	0.318	↔
14_2_124	MW-6	Appendix III	Sulfate	mg/l	17	0	0%	0.64158	0.403	↔	-0.0081805	0.735	↔	2020-08-17	0.192	↔
14_2_126	MW-6	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	1.4689	0.297	↔	0.010114	0.818	↔	2020-08-17	0.328	↔
14_3_102	MW-6	Appendix IV	Arsenic	mg/l	18	17	94%	< 0.0001	0.023	↔	> -0.0001	0.001	↓	2024-06-07	0.750	↔
14_3_103	MW-6	Appendix IV	Barium	mg/l	18	0	0%	> -0.0001	0.088	↔	< 0.0001	0.040	↔	2022-08-02	0.458	↔
14_3_116	MW-6	Appendix IV	Lithium	mg/l	18	0	0%	0.00010024	0.126	↔	< 0.0001	0.944	↔	2020-09-28	0.342	↔
14_3_118	MW-6	Appendix IV	Molybdenum	mg/l	18	0	0%	< 0.0001	0.247	↔	> -0.0001	0.066	↔	2020-08-18	0.280	↔
14_5_114	MW-6	Part 115	Iron	mg/l	18	9	50%	-0.00089286	0.017	↔	> -0.0001	0.930	↔	2020-09-01	0.639	↔
14_5_119	MW-6	Part 115	Nickel	mg/l	18	5	28%	< 0.0001	0.014	↔	> -0.0001	0.000	↓	2020-07-25	0.776	↔
14_5_129	MW-6	Part 115	Zinc	mg/l	18	16	89%	-0.00010357	0.337	↔	> -0.0001	0.821	↔	2020-08-15	0.268	↔
15_2_105	MW-7	Appendix III	Boron	mg/l	14	0	0%	-0.0010455	0.050	↔	0.0014936	0.309	↔	2023-08-02	0.380	↔
15_2_107	MW-7	Appendix III	Calcium	mg/l	14	0	0%	0.08898	0.545	↔	-0.00613	0.752	↔	2021-12-08	0.063	↔
15_2_108	MW-7	Appendix III	Chloride	mg/l	14	0	0%	0.041659	0.089	↔	-0.0057799	0.399	↔	2022-08-01	0.621	↔
15_2_112	MW-7	Appendix III	Fluoride	mg/l	14	11	79%	< 0.0001	0.773	↔	-0.0017117	0.069	↔	2023-11-23	0.531	↔
15_2_124	MW-7	Appendix III	Sulfate	mg/l	14	0	0%	0.15974	0.377	↔	-0.027046	0.436	↔	2022-02-16	0.149	↔
15_2_126	MW-7	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	0.33431	0.511	↔	-0.0094948	0.922	↔	2022-02-16	0.110	↔
15_3_103	MW-7	Appendix IV	Barium	mg/l	14	0	0%	> -0.0001	0.022	↔	< 0.0001	0.595	↔	2024-01-30	0.444	↔
15_3_113	MW-7	Appendix IV	Fluoride (App IV)	mg/l	14	11	79%	< 0.0001	0.773	↔	-0.0017117	0.069	↔	2023-11-23	0.531	↔
15_3_116	MW-7	Appendix IV	Lithium	mg/l	14	0	0%	> -0.0001	0.011	↔	< 0.0001	0.743	↔	2023-08-02	0.614	↔
15_3_118	MW-7	Appendix IV	Molybdenum	mg/l	14	0	0%	-0.00021183	0.007	↓	< 0.0001	0.732	↔	2023-03-08	0.729	↔
15_3_121	MW-7	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.0015149	0.735	↔	-0.0033441	0.240	↔	2023-02-07	0.170	↔
15_5_114	MW-7	Part 115	Iron	mg/l	14	0	0%	0.0024624	0.359	↔	-0.00068378	0.196	↔	2022-02-16	0.222	↔
15_5_128	MW-7	Part 115	Vanadium	mg/l	14	13	93%	< 0.0001	0.021	↔	> -0.0001	0.000	↓	2024-07-14	0.970	↔
16_2_105	MW-7C	Appendix III	Boron	mg/l	13	0	0%	0.0013289	0.580	↔	-0.00049529	0.122	↔	2022-08-31	0.268	↔
16_2_107	MW-7C	Appendix III	Calcium	mg/l	13	0	0%	-0.62857	0.446	↔	0.0017726	0.925	↔	2022-05-18	0.367	↔
16_2_120	MW-7C	Appendix III	pH, Field	su	13	0	0%	-0.0010354	0.265	↔	< 0.0001	0.447	↔	2022-07-28	0.222	↔
16_2_124	MW-7C	Appendix III	Sulfate	mg/l	13	0	0%	-0.70898	0.047	↔	-0.041294	0.023	↔	2022-06-22	0.854	↔
16_2_126	MW-7C	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	-1.1429	0.057	↔	-0.13038	0.001	↓	2022-06-20	0.899	↔
16_3_102	MW-7C	Appendix IV	Arsenic	mg/l	13	0	0%	< 0.0001	0.037	↔	> -0.0001	0.284	↔	2024-03-04	0.455	↔
16_3_103	MW-7C	Appendix IV	Barium	mg/l	13	0	0%	> -0.0001	0.625	↔	> -0.0001	0.351	↔	2023-10-07	0.432	↔
16_3_106	MW-7C	Appendix IV	Cadmium	mg/l	13	10	77%	> -0.0001	0.696	↔	> -0.0001	0.083	↔	2024-07-29	0.529	↔
16_3_116	MW-7C	Appendix IV	Lithium	mg/l	13	0	0%	< 0.0001	0.536	↔	> -0.0001	0.005	↓	2022-07-27	0.627	↔
16_3_118	MW-7C	Appendix IV	Molybdenum	mg/l	13	0	0%	> -0.0001	0.984	↔	-0.00020994	0.117	↔	2024-06-17	0.511	↔
16_3_121	MW-7C	Appendix IV	Radium-226+228	pci/l	13	0	0%	-0.0025661	0.330	↔	0.0029025	0.521	↔	2023-12-09	0.175	↔
16_5_114	MW-7C	Part 115	Iron	mg/l	13	0	0%	-0.0011463	0.330	↔	0.00039614	0.388	↔	2022-11-29	0.173	↔
16_5_119	MW-7C	Part 115	Nickel	mg/l	13	0	0%	> -0.0001	0.038	↔	> -0.0001	0.074	↔	2022-04-19	0.735	↔
17_2_105	MW-8	Appendix III	Boron	mg/l	14	1	7%	-0.00030534	0.248	↔	< 0.0001	0.576	↔	2022-01-11	0.185	↔
17_2_107	MW-8	Appendix III	Calcium	mg/l	14	0	0%	0.038705	0.101	↔	-0.0097712	0.157	↔	2022-03-14	0.359	↔
17_2_108	MW-8	Appendix III	Chloride	mg/l	14	2	14%	0.030206	0.278	↔	-0.01077	0.893	↔	2023-08-07	0.177	↔
17_2_112	MW-8	Appendix III	Fluoride	mg/l	14	12	86%	0.00011996	0.670	↔	-0.0052265	0.039	↔	2024-08-03	0.478	↔
17_2_124	MW-8	Appendix III	Sulfate	mg/l	14	0	0%	-0.069764	0.467	↔	0.014466	0.266	↔	2022-01-10	0.166	↔
17_2_126	MW-8	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	0.083915	0.014	↔	-0.12867	0.158	↔	2023-08-02	0.527	↔

(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_3_102	MW-8	Appendix IV	Arsenic	mg/l	14	13	93%	< 0.0001	0.421	↔	> -0.0001	0.045	↔	2024-02-03	0.798	↔
17_3_103	MW-8	Appendix IV	Barium	mg/l	14	0	0%	> -0.0001	0.050	↔	< 0.0001	0.167	↔	2022-01-15	0.439	↔
17_3_113	MW-8	Appendix IV	Fluoride (App IV)	mg/l	14	12	86%	0.00011996	0.670	↔	-0.0052265	0.039	↔	2024-08-03	0.478	↔
17_3_121	MW-8	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.018409	0.103	↔	-0.0022516	0.130	↔	2022-01-10	0.441	↔
17_5_111	MW-8	Part 115	Copper	mg/l	14	13	93%	< 0.0001	0.021	↔	> -0.0001	0.069	↔	2024-03-21	0.633	↔
17_5_129	MW-8	Part 115	Zinc	mg/l	14	13	93%	< 0.0001	0.021	↔	> -0.0001	0.000	↓	2024-06-19	0.896	↔
18_2_107	MW-9	Appendix III	Calcium	mg/l	14	0	0%	0.0052165	0.806	↔	0.034131	0.023	↔	2022-09-30	0.732	↔
18_2_112	MW-9	Appendix III	Fluoride	mg/l	14	13	93%	0.00012324	0.670	↔	-0.0053923	0.039	↔	2024-08-03	0.480	↔
18_2_124	MW-9	Appendix III	Sulfate	mg/l	14	8	57%	0.00011454	0.940	↔	0.016546	0.000	↑	2023-03-25	0.963	↔
18_2_126	MW-9	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	0.046882	0.382	↔	0.11463	0.005	↑	2022-09-27	0.863	↔
18_3_102	MW-9	Appendix IV	Arsenic	mg/l	14	13	93%	< 0.0001	0.021	↔	> -0.0001	0.003	↓	2024-05-21	0.795	↔
18_3_103	MW-9	Appendix IV	Barium	mg/l	14	0	0%	> -0.0001	0.313	↔	< 0.0001	0.003	↑	2022-05-11	0.744	↔
18_3_113	MW-9	Appendix IV	Fluoride (App IV)	mg/l	14	13	93%	0.00012324	0.670	↔	-0.0053923	0.039	↔	2024-08-03	0.480	↔
18_3_121	MW-9	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.0061796	0.316	↔	-0.00056728	0.483	↔	2021-12-26	0.186	↔
19_2_105	MW-10	Appendix III	Boron	mg/l	14	1	7%	> -0.0001	0.215	↔	< 0.0001	0.147	↔	2024-01-27	0.297	↔
19_2_107	MW-10	Appendix III	Calcium	mg/l	14	0	0%	0.035714	0.481	↔	-0.015539	0.129	↔	2022-02-10	0.276	↔
19_2_108	MW-10	Appendix III	Chloride	mg/l	14	9	64%	0.0030819	0.072	↔	-0.017082	0.198	↔	2024-01-30	0.532	↔
19_2_112	MW-10	Appendix III	Fluoride	mg/l	14	12	86%	0.00011903	0.670	↔	-0.0052486	0.037	↔	2024-08-03	0.484	↔
19_2_124	MW-10	Appendix III	Sulfate	mg/l	14	0	0%	0.008147	0.087	↔	-0.024637	0.494	↔	2024-02-01	0.301	↔
19_2_126	MW-10	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	0.086304	0.184	↔	-0.18658	0.044	↔	2023-05-06	0.474	↔
19_3_102	MW-10	Appendix IV	Arsenic	mg/l	14	13	93%	< 0.0001	0.421	↔	> -0.0001	0.045	↔	2024-02-03	0.798	↔
19_3_103	MW-10	Appendix IV	Barium	mg/l	14	0	0%	> -0.0001	0.050	↔	> -0.0001	0.437	↔	2024-01-30	0.697	↔
19_3_113	MW-10	Appendix IV	Fluoride (App IV)	mg/l	14	12	86%	0.00011903	0.670	↔	-0.0052486	0.037	↔	2024-08-03	0.484	↔
19_3_121	MW-10	Appendix IV	Radium-226+228	pci/l	14	0	0%	-0.00011735	0.938	↔	0.0034343	0.112	↔	2023-02-23	0.546	↔
19_5_129	MW-10	Part 115	Zinc	mg/l	14	12	86%	< 0.0001	0.283	↔	> -0.0001	0.083	↔	2022-01-10	0.334	↔
20_2_105	MW-13	Appendix III	Boron	mg/l	13	0	0%	0.00022449	0.054	↔	> -0.0001	0.187	↔	2022-10-04	0.473	↔
20_2_107	MW-13	Appendix III	Calcium	mg/l	13	0	0%	-0.60286	0.046	↔	0.062177	0.001	↑	2022-05-06	0.770	↔
20_2_108	MW-13	Appendix III	Chloride	mg/l	13	2	15%	0.11085	0.000	↑	-0.057431	0.000	↓	2023-04-16	0.939	↔
20_2_120	MW-13	Appendix III	pH, Field	su	13	0	0%	0.0017714	0.430	↔	-0.00031348	0.266	↔	2022-07-18	0.190	↔
20_2_126	MW-13	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	-1.6801	0.189	↔	0.26902	0.001	↑	2022-05-04	0.740	↔
20_3_102	MW-13	Appendix IV	Arsenic	mg/l	13	9	69%	< 0.0001	0.001	↑	> -0.0001	0.390	↔	2024-06-30	0.837	↔
20_3_106	MW-13	Appendix IV	Cadmium	mg/l	13	13	100%	< 0.0001	0.163	↔	> -0.0001	0.000	↓	2024-05-28	0.945	↔
20_3_121	MW-13	Appendix IV	Radium-226+228	pci/l	13	1	8%	-0.0025098	0.550	↔	0.0015536	0.353	↔	2023-02-07	0.130	↔
20_5_114	MW-13	Part 115	Iron	mg/l	13	1	8%	< 0.0001	1.000	↔	0.0016685	0.000	↑	2023-01-14	0.922	↔
21_2_105	MW-14	Appendix III	Boron	mg/l	11	0	0%	-0.00011088	0.710	↔	-0.00045351	0.560	↔	2024-01-31	0.398	↔
21_2_108	MW-14	Appendix III	Chloride	mg/l	11	0	0%	0.020567	0.035	↔	-0.081967	0.005	↓	2024-05-26	0.821	↔
21_2_120	MW-14	Appendix III	pH, Field	su	11	0	0%	-0.00051825	0.097	↔	0.00024411	0.333	↔	2023-10-23	0.410	↔
21_2_124	MW-14	Appendix III	Sulfate	mg/l	11	0	0%	-0.78041	0.498	↔	-0.0048978	0.996	↔	2023-09-23	0.113	↔
21_2_126	MW-14	Appendix III	Total Dissolved Solids	mg/l	11	1	9%	0.99557	0.423	↔	-0.18218	0.863	↔	2023-11-06	0.150	↔
21_3_102	MW-14	Appendix IV	Arsenic	mg/l	11	0	0%	< 0.0001	0.007	↑	> -0.0001	0.192	↔	2023-10-21	0.722	↔
21_3_104	MW-14	Appendix IV	Beryllium	mg/l	11	11	100%	< 0.0001	0.208	↔	> -0.0001	0.001	↓	2024-05-08	0.926	↔
21_3_116	MW-14	Appendix IV	Lithium	mg/l	11	0	0%	-0.00016861	0.010	↓	> -0.0001	0.005	↓	2023-04-13	0.931	↓

(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_3_122	MW-14	Appendix IV	Selenium	mg/l	11	9	82%	< 0.0001	0.348	↔	> -0.0001	0.045	↔	2023-07-06	0.498	↔
21_5_114	MW-14	Part 115	Iron	mg/l	11	0	0%	0.051124	0.014	↔	0.006217	0.002	↑	2023-04-09	0.930	↔
21_5_129	MW-14	Part 115	Zinc	mg/l	11	9	82%	< 0.0001	0.134	↔	> -0.0001	0.997	↔	2024-01-31	0.421	↔
22_2_105	MW-15	Appendix III	Boron	mg/l	11	0	0%	0.00020171	0.068	↔	-0.00060773	0.042	↔	2024-06-07	0.621	↔
22_2_107	MW-15	Appendix III	Calcium	mg/l	11	0	0%	-1.1944	0.043	↔	0.040326	0.069	↔	2023-03-05	0.755	↔
22_2_108	MW-15	Appendix III	Chloride	mg/l	11	0	0%	-0.3946	0.011	↔	0.037955	0.005	↑	2023-04-15	0.852	↔
22_2_120	MW-15	Appendix III	pH, Field	su	11	0	0%	-0.00099885	0.017	↔	0.00010653	0.714	↔	2023-11-02	0.722	↔
22_2_124	MW-15	Appendix III	Sulfate	mg/l	11	0	0%	-2.8611	0.008	↓	-0.051791	0.129	↔	2023-02-23	0.865	↔
22_2_126	MW-15	Appendix III	Total Dissolved Solids	mg/l	11	0	0%	-2.6713	0.128	↔	0.027525	0.835	↔	2023-04-02	0.519	↔
22_3_104	MW-15	Appendix IV	Beryllium	mg/l	11	11	100%	< 0.0001	0.211	↔	> -0.0001	0.001	↓	2024-05-08	0.923	↔
22_3_121	MW-15	Appendix IV	Radium-226+228	pci/l	11	0	0%	-0.0016472	0.475	↔	0.0018729	0.753	↔	2024-03-20	0.089	↔
22_3_122	MW-15	Appendix IV	Selenium	mg/l	11	4	36%	> -0.0001	0.087	↔	< 0.0001	0.296	↔	2023-11-27	0.465	↔
23_2_107	MW-16A	Appendix III	Calcium	mg/l	12	0	0%	0.24787	0.016	↔	-0.02753	0.630	↔	2023-10-17	0.637	↔
23_2_108	MW-16A	Appendix III	Chloride	mg/l	12	0	0%	0.38723	0.004	↑	0.018	0.790	↔	2023-10-17	0.791	↔
23_2_112	MW-16A	Appendix III	Fluoride	mg/l	12	11	92%	0.0063834	0.078	↔	-0.0074648	0.397	↔	2024-02-01	0.425	↔
23_2_120	MW-16A	Appendix III	pH, Field	su	12	0	0%	-0.0013576	0.243	↔	> -0.0001	0.807	↔	2023-05-30	0.328	↔
23_2_124	MW-16A	Appendix III	Sulfate	mg/l	12	0	0%	0.64269	0.001	↑	-0.21765	0.523	↔	2024-02-01	0.796	↔
23_2_126	MW-16A	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	1.7815	0.007	↑	-0.20391	0.559	↔	2023-10-17	0.709	↔
23_3_102	MW-16A	Appendix IV	Arsenic	mg/l	12	0	0%	< 0.0001	0.012	↔	> -0.0001	0.144	↔	2024-02-01	0.689	↔
23_3_103	MW-16A	Appendix IV	Barium	mg/l	12	0	0%	0.00015224	0.141	↔	> -0.0001	0.827	↔	2023-10-17	0.338	↔
23_3_113	MW-16A	Appendix IV	Fluoride (App IV)	mg/l	12	11	92%	0.0063834	0.078	↔	-0.0074648	0.397	↔	2024-02-01	0.425	↔
23_3_121	MW-16A	Appendix IV	Radium-226+228	pci/l	12	0	0%	0.0057991	0.479	↔	-0.0081932	0.351	↔	2024-01-13	0.173	↔
23_5_114	MW-16A	Part 115	Iron	mg/l	12	0	0%	0.0021337	0.379	↔	-0.0018002	0.479	↔	2024-01-31	0.158	↔
24_2_105	MW-16B	Appendix III	Boron	mg/l	12	0	0%	> -0.0001	0.135	↔	> -0.0001	0.595	↔	2023-09-12	0.481	↔
24_2_107	MW-16B	Appendix III	Calcium	mg/l	12	0	0%	0.033369	0.002	↑	-0.0024877	0.488	↔	2023-10-16	0.864	↔
24_2_108	MW-16B	Appendix III	Chloride	mg/l	12	5	42%	-0.015707	0.353	↔	-0.0029478	0.468	↔	2023-08-07	0.411	↔
24_2_112	MW-16B	Appendix III	Fluoride	mg/l	12	8	67%	-0.00057545	0.418	↔	0.001087	0.558	↔	2024-05-27	0.121	↔
24_2_120	MW-16B	Appendix III	pH, Field	su	12	0	0%	-0.0010959	0.495	↔	0.00015494	0.348	↔	2023-05-29	0.216	↔
24_2_124	MW-16B	Appendix III	Sulfate	mg/l	12	0	0%	-0.042553	0.074	↔	0.0078475	0.000	↑	2023-03-25	0.874	↔
24_3_113	MW-16B	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	-0.00057545	0.418	↔	0.001087	0.558	↔	2024-05-27	0.121	↔
24_3_116	MW-16B	Appendix IV	Lithium	mg/l	12	0	0%	> -0.0001	0.024	↔	< 0.0001	0.505	↔	2024-03-27	0.534	↔
24_3_118	MW-16B	Appendix IV	Molybdenum	mg/l	12	0	0%	> -0.0001	0.020	↔	< 0.0001	0.470	↔	2023-03-23	0.663	↔
24_3_121	MW-16B	Appendix IV	Radium-226+228	pci/l	12	0	0%	0.0060594	0.472	↔	-0.0049689	0.234	↔	2023-10-16	0.218	↔
24_3_122	MW-16B	Appendix IV	Selenium	mg/l	12	11	92%	< 0.0001	0.673	↔	> -0.0001	0.000	↓	2024-07-25	0.949	↔
24_5_114	MW-16B	Part 115	Iron	mg/l	12	0	0%	-0.0026093	0.006	↓	> -0.0001	0.790	↔	2023-07-17	0.818	↔
30_2_107	MW-100A	Appendix III	Calcium	mg/l	10	0	0%	-0.015751	0.145	↔	-0.0027494	0.700	↔	2024-01-03	0.521	↔
30_2_108	MW-100A	Appendix III	Chloride	mg/l	10	0	0%	0.0019332	0.033	↔	-0.0016484	0.233	↔	2024-04-16	0.613	↔
30_2_120	MW-100A	Appendix III	pH, Field	su	10	0	0%	0.00026226	0.859	↔	-0.00019873	0.493	↔	2023-10-22	0.089	↔
30_2_124	MW-100A	Appendix III	Sulfate	mg/l	10	0	0%	-0.12571	0.003	↓	0.017291	0.069	↔	2023-11-13	0.894	↔
30_3_102	MW-100A	Appendix IV	Arsenic	mg/l	10	0	0%	< 0.0001	0.033	↔	> -0.0001	0.057	↔	2023-09-09	0.812	↔
30_3_103	MW-100A	Appendix IV	Barium	mg/l	10	0	0%	> -0.0001	0.066	↔	< 0.0001	0.883	↔	2024-07-05	0.720	↔
30_3_116	MW-100A	Appendix IV	Lithium	mg/l	10	0	0%	< 0.0001	0.671	↔	> -0.0001	0.003	↓	2023-07-31	0.819	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Break 1	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend			
30_3_118	MW-100A	Appendix IV	Molybdenum	mg/l	10	0	0%	> -0.0001	0.006	↓	> -0.0001	0.526	↔	2024-02-07	0.867	↔
30_5_114	MW-100A	Part 115	Iron	mg/l	10	0	0%	0.041087	0.059	↔	-0.0020503	0.063	↔	2023-08-13	0.862	↔
30_5_129	MW-100A	Part 115	Zinc	mg/l	10	8	80%	< 0.0001	0.305	↔	> -0.0001	0.004	↓	2024-06-21	0.873	↔
31_2_105	MW-100B	Appendix III	Boron	mg/l	10	0	0%	0.00057143	0.313	↔	< 0.0001	0.619	↔	2023-08-26	0.451	↔
31_2_107	MW-100B	Appendix III	Calcium	mg/l	10	0	0%	-0.17143	0.298	↔	-0.0080197	0.337	↔	2023-08-05	0.661	↔
31_2_108	MW-100B	Appendix III	Chloride	mg/l	10	0	0%	0.042857	0.038	↔	-0.012944	0.000	↓	2023-08-18	0.911	↔
31_2_120	MW-100B	Appendix III	pH, Field	su	10	0	0%	0.0010286	0.033	↔	-0.00036464	0.227	↔	2024-02-06	0.668	↔
31_2_124	MW-100B	Appendix III	Sulfate	mg/l	10	0	0%	-0.28571	0.010	↓	0.0098748	0.291	↔	2023-09-10	0.897	↔
31_2_126	MW-100B	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	-0.42857	0.365	↔	-0.05998	0.263	↔	2023-09-16	0.612	↔
31_3_102	MW-100B	Appendix IV	Arsenic	mg/l	10	0	0%	< 0.0001	0.125	↔	> -0.0001	0.026	↔	2024-05-02	0.794	↔
31_3_103	MW-100B	Appendix IV	Barium	mg/l	10	0	0%	-0.00012286	0.001	↓	> -0.0001	0.100	↔	2023-10-24	0.938	↔
31_3_116	MW-100B	Appendix IV	Lithium	mg/l	10	0	0%	< 0.0001	0.342	↔	< 0.0001	0.386	↔	2023-09-18	0.459	↔
31_3_121	MW-100B	Appendix IV	Radium-226+228	pci/l	10	1	10%	-0.0035011	0.152	↔	0.00048352	0.903	↔	2024-07-10	0.583	↔

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_105	MW-2	Appendix III	Boron	mg/l	17	0	0%	0.016764	0.000	↑	-0.001256	0.020	↔	-0.0023686	0.016	↔	2020-10-06	2023-02-07	0.915	↔
11_2_107	MW-2	Appendix III	Calcium	mg/l	17	0	0%	0.25714	0.035	↔	-0.090698	0.000	↓	-0.015214	0.217	↔	2020-07-29	2022-09-15	0.970	↔
11_2_108	MW-2	Appendix III	Chloride	mg/l	17	0	0%	0.175	0.005	↑	-0.0016804	0.699	↔	-0.061026	0.004	↓	2020-08-24	2023-12-20	0.839	↔
11_2_124	MW-2	Appendix III	Sulfate	mg/l	17	0	0%	2.0964	0.000	↑	-0.33955	0.000	↓	-0.1336	0.003	↓	2020-08-12	2022-08-05	0.981	↔
11_2_126	MW-2	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	2.7548	0.000	↑	-0.5023	0.000	↓	-0.15305	0.018	↔	2020-08-08	2022-08-02	0.977	↔
11_3_102	MW-2	Appendix IV	Arsenic	mg/l	18	15	83%	< 0.0001	0.104	↔	> -0.0001	0.810	↔	> -0.0001	0.141	↔	2022-02-01	2023-11-09	0.476	↔
11_3_103	MW-2	Appendix IV	Barium	mg/l	18	0	0%	< 0.0001	0.282	↔	> -0.0001	0.194	↔	< 0.0001	0.270	↔	2022-06-09	2023-06-08	0.550	↔
11_3_116	MW-2	Appendix IV	Lithium	mg/l	18	0	0%	< 0.0001	0.000	↑	> -0.0001	0.212	↔	> -0.0001	0.000	↓	2020-12-19	2021-05-16	0.909	↔
11_3_118	MW-2	Appendix IV	Molybdenum	mg/l	18	0	0%	< 0.0001	0.521	↔	< 0.0001	0.074	↔	> -0.0001	0.189	↔	2020-09-27	2023-03-14	0.523	↔
12_3_102	MW-3	Appendix IV	Arsenic	mg/l	9	0	0%	> -0.0001	0.765	↔	< 0.0001	0.081	↔	> -0.0001	0.175	↔	2022-12-12	2024-01-29	0.858	↔
12_3_103	MW-3	Appendix IV	Barium	mg/l	9	0	0%	> -0.0001	0.178	↔	> -0.0001	0.715	↔	> -0.0001	0.034	↔	2022-05-31	2023-07-31	0.965	↔
12_3_116	MW-3	Appendix IV	Lithium	mg/l	9	0	0%	< 0.0001	0.174	↔	> -0.0001	0.135	↔	> -0.0001	0.309	↔	2022-07-14	2023-02-22	0.880	↔
12_5_114	MW-3	Part 115	Iron	mg/l	9	0	0%	-0.0002033	0.696	↔	-0.00039518	0.787	↔	-0.00049878	0.483	↔	2022-12-26	2023-12-24	0.727	↔
13_2_105	MW-5	Appendix III	Boron	mg/l	17	0	0%	-0.0037921	0.120	↔	0.0002916	0.874	↔	0.003887	0.635	↔	2022-01-31	2024-07-17	0.532	↔
13_2_120	MW-5	Appendix III	pH, Field	su	18	0	0%	-0.0011396	0.251	↔	0.00062154	0.371	↔	> -0.0001	0.982	↔	2021-05-03	2022-12-26	0.285	↔
13_3_103	MW-5	Appendix IV	Barium	mg/l	18	0	0%	-0.00012	0.002	↓	< 0.0001	0.592	↔	> -0.0001	0.410	↔	2020-11-09	2022-01-31	0.625	↔
13_3_115	MW-5	Appendix IV	Lead	mg/l	18	14	78%	> -0.0001	0.570	↔	< 0.0001	0.097	↔	> -0.0001	0.029	↔	2021-04-07	2022-02-01	0.485	↔
13_3_116	MW-5	Appendix IV	Lithium	mg/l	18	0	0%	> -0.0001	0.301	↔	< 0.0001	0.253	↔	> -0.0001	0.222	↔	2022-01-31	2023-06-13	0.276	↔
13_3_118	MW-5	Appendix IV	Molybdenum	mg/l	18	0	0%	> -0.0001	0.104	↔	< 0.0001	0.027	↔	> -0.0001	0.332	↔	2022-01-31	2023-11-28	0.556	↔
13_5_111	MW-5	Part 115	Copper	mg/l	18	13	72%	< 0.0001	0.718	↔	> -0.0001	0.787	↔	> -0.0001	0.959	↔	2022-02-01	2023-04-06	0.123	↔
13_5_114	MW-5	Part 115	Iron	mg/l	18	1	6%	-0.22033	0.002	↓	0.0031511	0.291	↔	-0.0019905	0.104	↔	2020-06-01	2022-01-31	0.783	↔
13_5_119	MW-5	Part 115	Nickel	mg/l	18	0	0%	-0.00010572	0.368	↔	> -0.0001	0.332	↔	> -0.0001	0.037	↔	2020-06-22	2021-01-27	0.793	↔

(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				
13_5_128	MW-5	Part 115	Vanadium	mg/l	18	14	78%	-0.00025237	0.000	↓	< 0.0001	0.059	↔	> -0.0001	0.023	↔	2020-05-27	2022-02-01	0.819	↔
13_5_129	MW-5	Part 115	Zinc	mg/l	18	4	22%	< 0.0001	0.577	↔	> -0.0001	0.517	↔	> -0.0001	0.941	↔	2021-01-26	2022-12-20	0.161	↔
14_2_108	MW-6	Appendix III	Chloride	mg/l	17	0	0%	0.11309	0.019	↔	-0.073405	0.074	↔	0.011949	0.019	↔	2020-10-16	2021-05-22	0.656	↔
14_2_120	MW-6	Appendix III	pH, Field	su	18	0	0%	0.003065	0.170	↔	-0.00038254	0.551	↔	< 0.0001	0.451	↔	2020-08-17	2021-07-24	0.387	↔
14_2_124	MW-6	Appendix III	Sulfate	mg/l	17	0	0%	0.80872	0.012	↔	-0.59804	0.031	↔	0.054095	0.084	↔	2020-10-15	2021-05-04	0.640	↔
14_2_126	MW-6	Appendix III	Total Dissolved Solids	mg/l	17	0	0%	1.6918	0.006	↑	-1.0492	0.041	↔	0.11992	0.046	↔	2020-10-14	2021-05-04	0.682	↔
14_3_102	MW-6	Appendix IV	Arsenic	mg/l	18	17	94%	> -0.0001	0.448	↔	> -0.0001	0.000	↓	> -0.0001	0.000	↓	2024-03-16	2023-01-30	0.929	↔
14_3_103	MW-6	Appendix IV	Barium	mg/l	18	0	0%	< 0.0001	0.027	↔	> -0.0001	0.014	↔	< 0.0001	0.001	↑	2020-09-29	2022-05-26	0.759	↔
14_3_116	MW-6	Appendix IV	Lithium	mg/l	18	0	0%	0.00010865	0.024	↔	> -0.0001	0.028	↔	< 0.0001	0.048	↔	2020-10-18	2024-04-10	0.736	↔
14_3_118	MW-6	Appendix IV	Molybdenum	mg/l	18	0	0%	< 0.0001	0.186	↔	> -0.0001	0.016	↔	< 0.0001	0.143	↔	2020-09-01	2024-07-02	0.511	↔
14_5_114	MW-6	Part 115	Iron	mg/l	18	9	50%	-0.00089154	0.027	↔	< 0.0001	0.858	↔	> -0.0001	0.749	↔	2020-09-04	2023-07-31	0.643	↔
14_5_119	MW-6	Part 115	Nickel	mg/l	18	5	28%	< 0.0001	0.044	↔	> -0.0001	0.395	↔	> -0.0001	0.008	↓	2020-07-08	2021-05-10	0.779	↔
14_5_129	MW-6	Part 115	Zinc	mg/l	18	16	89%	-0.00010357	0.373	↔	< 0.0001	1.000	↔	> -0.0001	0.767	↔	2020-08-17	2024-08-04	0.275	↔
15_2_108	MW-7	Appendix III	Chloride	mg/l	14	0	0%	-0.0054029	0.902	↔	0.07054	0.026	↔	-0.0098884	0.260	↔	2021-12-06	2022-08-02	0.734	↔
15_2_124	MW-7	Appendix III	Sulfate	mg/l	14	0	0%	0.14801	0.458	↔	-0.003792	0.953	↔	-0.093167	0.743	↔	2022-01-26	2024-02-16	0.179	↔
15_3_102	MW-7	Appendix IV	Arsenic	mg/l	14	0	0%	> -0.0001	0.011	↔	< 0.0001	0.041	↔	> -0.0001	0.004	↓	2022-12-26	2023-10-31	0.839	↔
15_3_103	MW-7	Appendix IV	Barium	mg/l	14	0	0%	> -0.0001	0.574	↔	> -0.0001	0.442	↔	< 0.0001	0.590	↔	2022-10-20	2024-01-30	0.452	↔
15_5_114	MW-7	Part 115	Iron	mg/l	14	0	0%	0.0035538	0.131	↔	-0.0022098	0.555	↔	0.00031844	0.792	↔	2022-02-17	2023-03-24	0.356	↔
15_5_128	MW-7	Part 115	Vanadium	mg/l	14	13	93%	> -0.0001	0.342	↔	< 0.0001	0.003	↑	> -0.0001	0.000	↓	2023-04-28	2024-06-15	0.995	↔
15_5_129	MW-7	Part 115	Zinc	mg/l	14	11	79%	> -0.0001	0.546	↔	< 0.0001	0.970	↔	> -0.0001	0.586	↔	2022-01-03	2024-03-23	0.330	↔
16_2_107	MW-7C	Appendix III	Calcium	mg/l	13	0	0%	-0.68344	0.438	↔	0.023329	0.532	↔	-0.12616	0.458	↔	2022-05-18	2024-06-27	0.453	↔
16_2_120	MW-7C	Appendix III	pH, Field	su	13	0	0%	-0.0010023	0.343	↔	0.0001443	0.570	↔	> -0.0001	0.964	↔	2022-08-08	2024-03-09	0.228	↔
16_2_124	MW-7C	Appendix III	Sulfate	mg/l	13	0	0%	-0.70846	0.083	↔	-0.046102	0.641	↔	-0.037614	0.399	↔	2022-06-22	2023-07-22	0.853	↔
16_2_126	MW-7C	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	-1.256	0.000	↓	-0.054182	0.003	↓	-0.60535	0.000	↓	2022-06-22	2024-07-10	0.995	↓
16_3_106	MW-7C	Appendix IV	Cadmium	mg/l	13	10	77%	< 0.0001	0.383	↔	> -0.0001	0.602	↔	> -0.0001	0.168	↔	2022-11-10	2024-07-22	0.612	↔
16_3_118	MW-7C	Appendix IV	Molybdenum	mg/l	13	0	0%	> -0.0001	0.359	↔	< 0.0001	0.614	↔	-0.00020994	0.139	↔	2023-03-06	2024-04-08	0.591	↔
16_3_121	MW-7C	Appendix IV	Radium-226+228	pci/l	13	0	0%	-0.017469	0.109	↔	0.033714	0.455	↔	-0.00048413	0.754	↔	2022-08-28	2022-10-08	0.455	↔
16_5_114	MW-7C	Part 115	Iron	mg/l	13	0	0%	-0.0014302	0.066	↔	0.0021547	0.208	↔	-0.0022099	0.197	↔	2023-03-06	2024-04-10	0.602	↔
17_2_105	MW-8	Appendix III	Boron	mg/l	14	1	7%	-0.00032813	0.253	↔	0.00011233	0.582	↔	> -0.0001	0.662	↔	2022-02-16	2023-07-15	0.252	↔
17_2_124	MW-8	Appendix III	Sulfate	mg/l	14	0	0%	-0.087888	0.130	↔	0.089474	0.341	↔	-0.040217	0.199	↔	2022-04-20	2023-06-23	0.485	↔
17_2_126	MW-8	Appendix III	Total Dissolved Solids	mg/l	14	0	0%	-0.051152	0.577	↔	0.25263	0.129	↔	-0.15151	0.014	↔	2022-06-09	2023-05-22	0.690	↔
17_3_118	MW-8	Appendix IV	Molybdenum	mg/l	14	11	79%	> -0.0001	0.186	↔	< 0.0001	1.000	↔	< 0.0001	0.917	↔	2022-01-11	2024-08-07	0.352	↔
17_3_121	MW-8	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.018875	0.069	↔	-0.0026114	0.401	↔	0.00085807	0.949	↔	2022-01-11	2024-07-15	0.447	↔
17_5_111	MW-8	Part 115	Copper	mg/l	14	13	93%	> -0.0001	0.467	↔	< 0.0001	0.085	↔	> -0.0001	0.000	↓	2023-01-07	2024-01-29	0.867	↔
17_5_129	MW-8	Part 115	Zinc	mg/l	14	13	93%	> -0.0001	0.294	↔	< 0.0001	0.001	↑	> -0.0001	0.000	↓	2023-05-17	2024-05-01	0.987	↔
18_2_107	MW-9	Appendix III	Calcium	mg/l	14	0	0%	0.11782	0.051	↔	-0.04477	0.700	↔	0.039932	0.001	↑	2021-11-08	2022-08-01	0.872	↔
18_2_112	MW-9	Appendix III	Fluoride	mg/l	14	13	93%	-0.001892	0.503	↔	0.00046189	0.281	↔	-0.0050164	0.064	↔	2021-12-06	2024-06-20	0.560	↔
18_3_102	MW-9	Appendix IV	Arsenic	mg/l	14	13	93%	> -0.0001	0.275	↔	< 0.0001	0.000	↑	> -0.0001	0.000	↓	2023-05-27	2024-03-25	0.977	↔
18_3_103	MW-9	Appendix IV	Barium	mg/l	14	0	0%	> -0.0001	0.079	↔	< 0.0001	0.014	↔	> -0.0001	0.053	↔	2022-09-09	2024-08-07	0.901	↔
18_3_113	MW-9	Appendix IV	Fluoride (App IV)	mg/l	14	13	93%	-0.001892	0.503	↔	0.00046189	0.281	↔	-0.0050164	0.064	↔	2021-12-06	2024-06-20	0.560	↔
18_3_121	MW-9	Appendix IV	Radium-226+228	pci/l	14	0	0%	0.0035881	0.140	↔	-0.0095143	0.170	↔	0.0039066	0.225	↔	2022-12-10	2023-09-28	0.459	↔
18_5_129	MW-9	Part 115	Zinc	mg/l	14	12	86%	< 0.0001	0.793	↔	> -0.0001	0.673	↔	> -0.0001	0.091	↔	2021-08-02	2024-08-02	0.541	↔

(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				
19_2_105	MW-10	Appendix III	Boron	mg/l	14	1	7%	< 0.0001	0.494	↔	> -0.0001	0.077	↔	< 0.0001	0.181	↔	2021-11-01	2023-03-12	0.464	↔
19_2_107	MW-10	Appendix III	Calcium	mg/l	14	0	0%	-0.11332	0.343	↔	0.16477	0.655	↔	-0.018234	0.052	↔	2021-09-28	2022-01-05	0.450	↔
19_2_108	MW-10	Appendix III	Chloride	mg/l	14	9	64%	-0.010162	0.362	↔	0.0049864	0.158	↔	-0.018892	0.012	↔	2021-12-07	2024-01-29	0.646	↔
19_2_112	MW-10	Appendix III	Fluoride	mg/l	14	12	86%	-0.0017946	0.387	↔	0.00041893	0.358	↔	-0.0051239	0.052	↔	2021-12-07	2024-07-03	0.566	↔
19_2_124	MW-10	Appendix III	Sulfate	mg/l	14	0	0%	-0.0036826	0.765	↔	0.030623	0.107	↔	-0.036565	0.302	↔	2023-01-07	2024-01-30	0.489	↔
19_3_103	MW-10	Appendix IV	Barium	mg/l	14	0	0%	> -0.0001	0.016	↔	< 0.0001	0.270	↔	> -0.0001	0.151	↔	2022-10-30	2024-01-30	0.849	↔
19_3_113	MW-10	Appendix IV	Fluoride (App IV)	mg/l	14	12	86%	-0.0017946	0.387	↔	0.00041893	0.358	↔	-0.0051239	0.052	↔	2021-12-07	2024-07-03	0.566	↔
20_2_105	MW-13	Appendix III	Boron	mg/l	13	0	0%	0.0002594	0.006	↑	-0.00013542	0.309	↔	< 0.0001	0.200	↔	2022-10-26	2023-12-20	0.729	↔
20_2_107	MW-13	Appendix III	Calcium	mg/l	13	0	0%	-0.60286	0.016	↔	0.096403	0.001	↑	-0.098361	0.219	↔	2022-05-16	2024-06-02	0.904	↔
20_2_108	MW-13	Appendix III	Chloride	mg/l	13	2	15%	0.076562	0.013	↔	0.15023	0.003	↑	-0.058165	0.000	↓	2022-08-17	2023-03-18	0.961	↔
20_2_126	MW-13	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	-2.0286	0.006	↓	0.43289	0.000	↑	-0.66667	0.013	↔	2022-05-07	2024-06-21	0.960	↔
20_3_102	MW-13	Appendix IV	Arsenic	mg/l	13	9	69%	> -0.0001	0.228	↔	< 0.0001	0.000	↑	> -0.0001	0.000	↓	2023-05-03	2024-02-10	1.000	↔
20_3_121	MW-13	Appendix IV	Radium-226+228	pci/l	13	1	8%	-0.0029383	0.309	↔	0.010608	0.148	↔	-0.0070437	0.312	↔	2023-07-13	2024-04-14	0.438	↔
23_2_105	MW-16A	Appendix III	Boron	mg/l	12	0	0%	-0.0012388	0.066	↔	0.0011337	0.033	↔	< 0.0001	0.667	↔	2023-05-16	2023-09-12	0.810	↔
23_2_107	MW-16A	Appendix III	Calcium	mg/l	12	0	0%	-0.68085	0.114	↔	0.42827	0.008	↑	-0.045367	0.187	↔	2023-04-04	2023-10-06	0.887	↔
23_2_108	MW-16A	Appendix III	Chloride	mg/l	12	0	0%	0.40847	0.024	↔	0.0037401	0.992	↔	0.048657	0.817	↔	2023-10-03	2024-06-03	0.789	↔
23_2_112	MW-16A	Appendix III	Fluoride	mg/l	12	11	92%	-0.00081523	0.852	↔	0.029243	0.404	↔	-0.012208	0.007	↓	2023-10-12	2024-01-31	0.762	↔
23_2_120	MW-16A	Appendix III	pH, Field	su	12	0	0%	-0.00088808	0.072	↔	0.0018938	0.572	↔	-0.00066487	0.068	↔	2023-10-03	2024-01-31	0.643	↔
23_2_124	MW-16A	Appendix III	Sulfate	mg/l	12	0	0%	-1.2553	0.226	↔	0.87232	0.002	↑	-0.27304	0.060	↔	2023-04-02	2024-01-21	0.919	↔
23_2_126	MW-16A	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	-3.8298	0.069	↔	3.0573	0.001	↑	-0.32514	0.064	↔	2023-04-09	2023-10-06	0.946	↔
23_3_102	MW-16A	Appendix IV	Arsenic	mg/l	12	0	0%	> -0.0001	0.577	↔	< 0.0001	0.031	↔	> -0.0001	0.005	↓	2023-05-29	2024-01-24	0.829	↔
23_3_103	MW-16A	Appendix IV	Barium	mg/l	12	0	0%	-0.00089362	0.049	↔	0.00041712	0.009	↑	> -0.0001	0.345	↔	2023-04-09	2023-09-17	0.847	↔
23_3_113	MW-16A	Appendix IV	Fluoride (App IV)	mg/l	12	11	92%	-0.00081523	0.852	↔	0.029243	0.404	↔	-0.012208	0.007	↓	2023-10-12	2024-01-31	0.762	↔
23_5_114	MW-16A	Part 115	Iron	mg/l	12	0	0%	-0.0086708	0.188	↔	0.020942	0.358	↔	-0.0013304	0.284	↔	2023-07-02	2023-09-10	0.600	↔
24_2_112	MW-16B	Appendix III	Fluoride	mg/l	12	8	67%	-0.0013654	0.558	↔	0.00011387	0.955	↔	0.00033379	0.874	↔	2023-08-06	2024-03-04	0.155	↔
24_2_120	MW-16B	Appendix III	pH, Field	su	12	0	0%	-0.0016316	0.113	↔	0.00091393	0.235	↔	-0.00034797	0.276	↔	2023-06-09	2024-01-31	0.571	↔
24_2_126	MW-16B	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	-0.17126	0.241	↔	0.11205	0.297	↔	-0.036795	0.103	↔	2023-04-25	2023-10-16	0.570	↔
24_3_103	MW-16B	Appendix IV	Barium	mg/l	12	0	0%	> -0.0001	0.154	↔	< 0.0001	0.154	↔	> -0.0001	0.144	↔	2023-05-09	2023-11-20	0.599	↔
24_3_113	MW-16B	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	-0.0013654	0.558	↔	0.00011387	0.955	↔	0.00033379	0.874	↔	2023-08-06	2024-03-04	0.155	↔
24_3_116	MW-16B	Appendix IV	Lithium	mg/l	12	0	0%	> -0.0001	0.209	↔	> -0.0001	0.717	↔	< 0.0001	0.849	↔	2023-06-17	2023-12-09	0.591	↔
24_3_118	MW-16B	Appendix IV	Molybdenum	mg/l	12	0	0%	> -0.0001	0.059	↔	< 0.0001	0.294	↔	> -0.0001	0.649	↔	2023-04-15	2023-10-13	0.733	↔
24_3_121	MW-16B	Appendix IV	Radium-226+228	pci/l	12	0	0%	0.0074906	0.354	↔	-0.012563	0.726	↔	< 0.0001	0.997	↔	2023-10-17	2024-04-10	0.255	↔
24_5_114	MW-16B	Part 115	Iron	mg/l	12	0	0%	-0.0065957	0.024	↔	-0.00083955	0.079	↔	0.00018904	0.525	↔	2023-03-26	2024-01-14	0.897	↔
30_2_107	MW-100A	Appendix III	Calcium	mg/l	10	0	0%	0.055119	0.473	↔	-0.027977	0.273	↔	-0.0010744	0.852	↔	2023-07-21	2024-01-02	0.691	↔
30_2_108	MW-100A	Appendix III	Chloride	mg/l	10	0	0%	< 0.0001	0.879	↔	0.0085714	0.000	↑	-0.0016484	0.000	↓	2023-11-29	2024-02-07	1.000	↔
30_2_112	MW-100A	Appendix III	Fluoride	mg/l	10	7	70%	> -0.0001	1.000	↔	-0.0022515	0.609	↔	0.00093407	0.731	↔	2023-09-19	2024-06-28	0.487	↔
30_2_126	MW-100A	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	-0.11755	0.105	↔	0.057143	0.872	↔	-0.2967	0.010	↓	2023-12-07	2024-07-19	0.922	↔
30_3_102	MW-100A	Appendix IV	Arsenic	mg/l	10	0	0%	< 0.0001	0.075	↔	< 0.0001	0.870	↔	> -0.0001	0.447	↔	2023-08-30	2024-02-07	0.835	↔
30_3_103	MW-100A	Appendix IV	Barium	mg/l	10	0	0%	< 0.0001	0.851	↔	> -0.0001	0.254	↔	> -0.0001	0.414	↔	2023-08-12	2023-12-30	0.774	↔
30_3_113	MW-100A	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	> -0.0001	1.000	↔	-0.0022515	0.609	↔	0.00093407	0.731	↔	2023-09-19	2024-06-28	0.487	↔
30_3_116	MW-100A	Appendix IV	Lithium	mg/l	10	0	0%	< 0.0001	0.000	↑	> -0.0001	0.002	↓	> -0.0001	0.000	↓	2023-09-18	2023-12-30	0.998	↔
30_3_118	MW-100A	Appendix IV	Molybdenum	mg/l	10	0	0%	< 0.0001	0.474	↔	> -0.0001	0.015	↔	> -0.0001	0.046	↔	2023-09-17	2023-12-30	0.979	↔

(Table continues on next page)

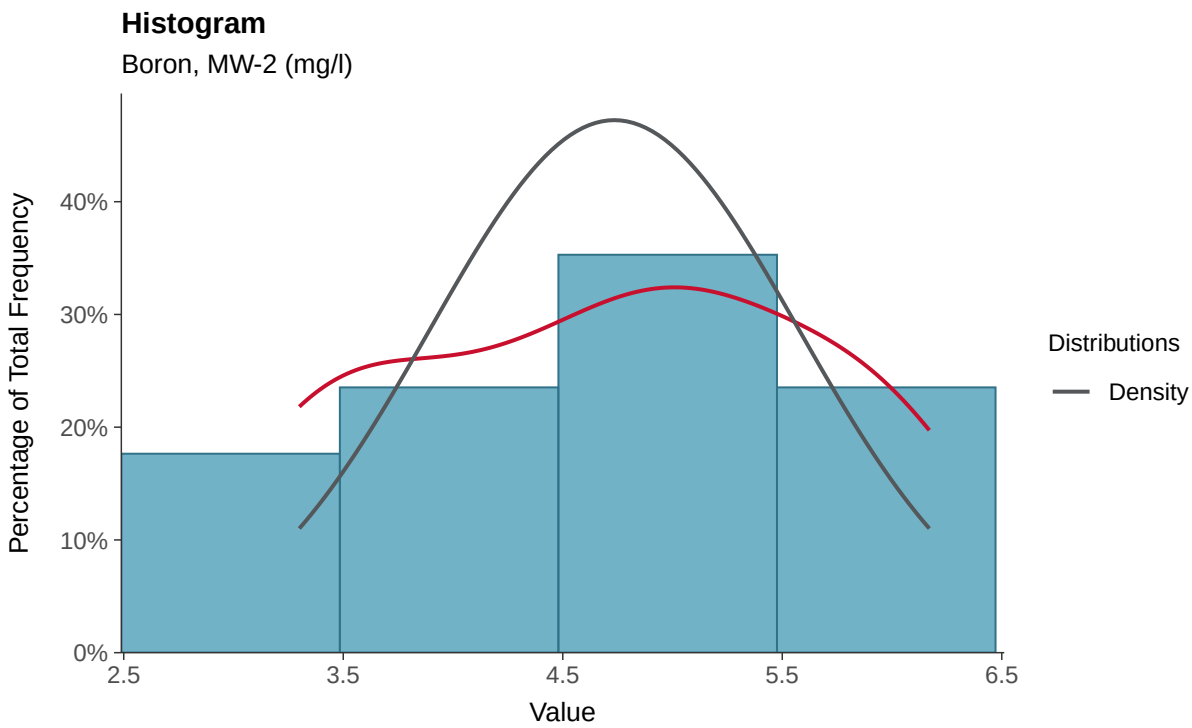
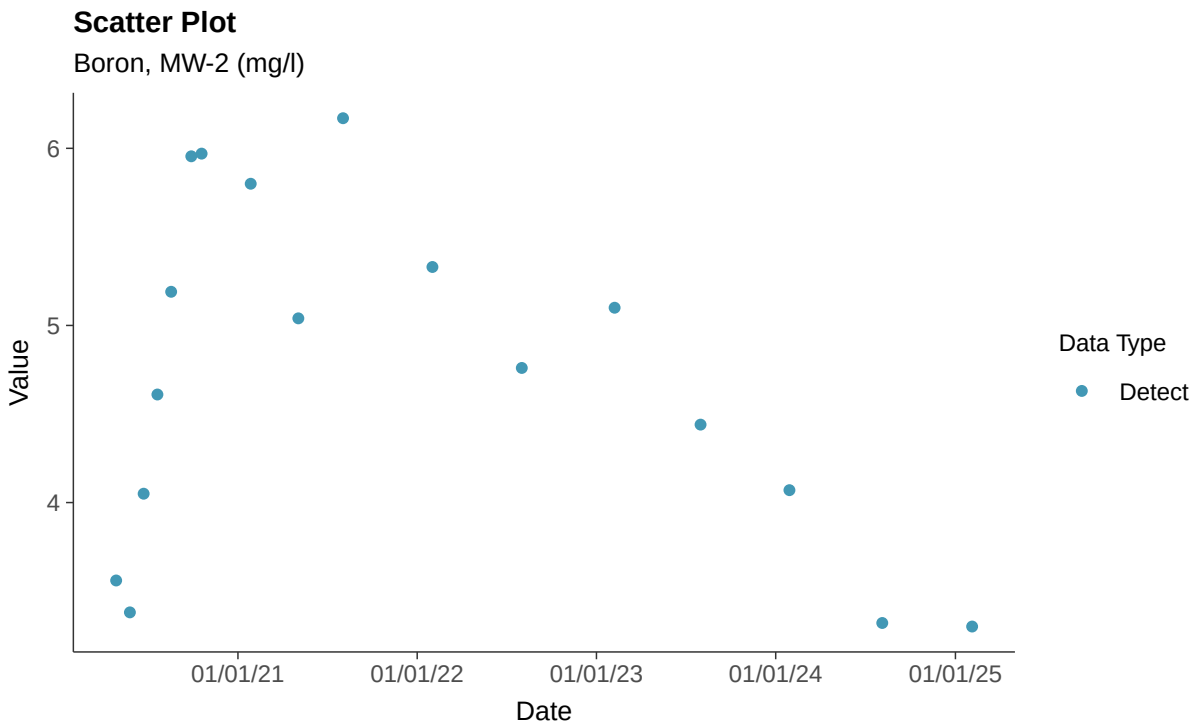
Table 10: Trend Tests: Piecewise Linear-Linear-Linear (*continued*)

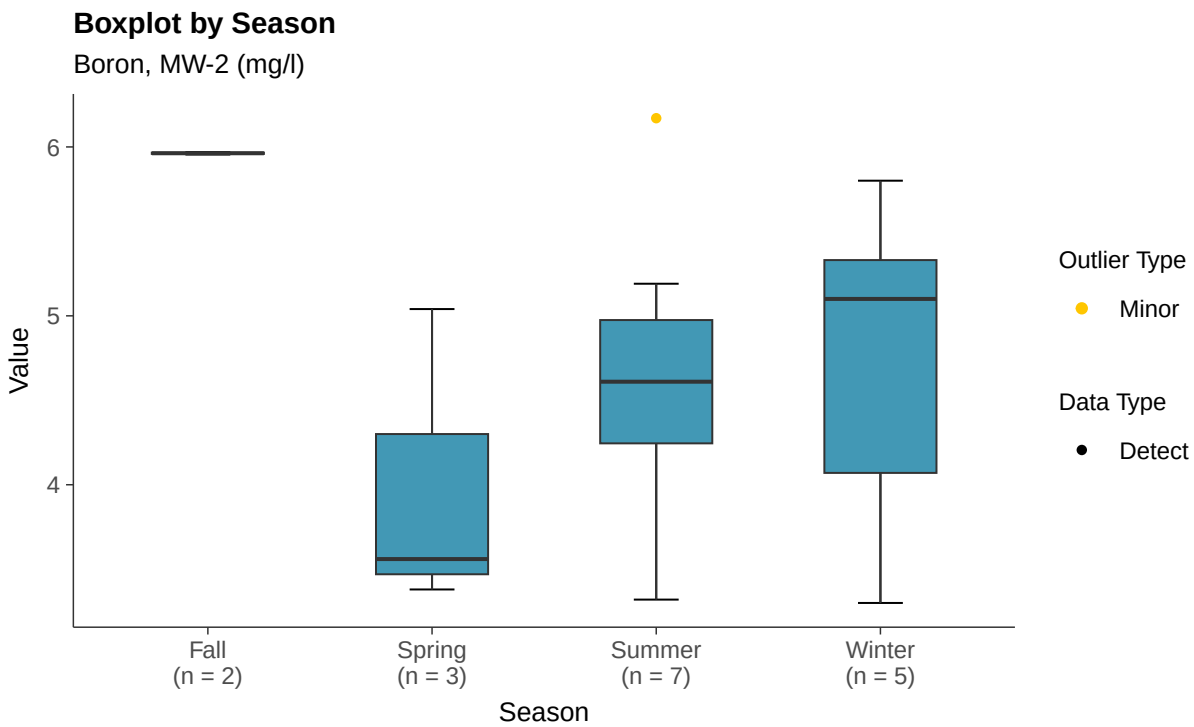
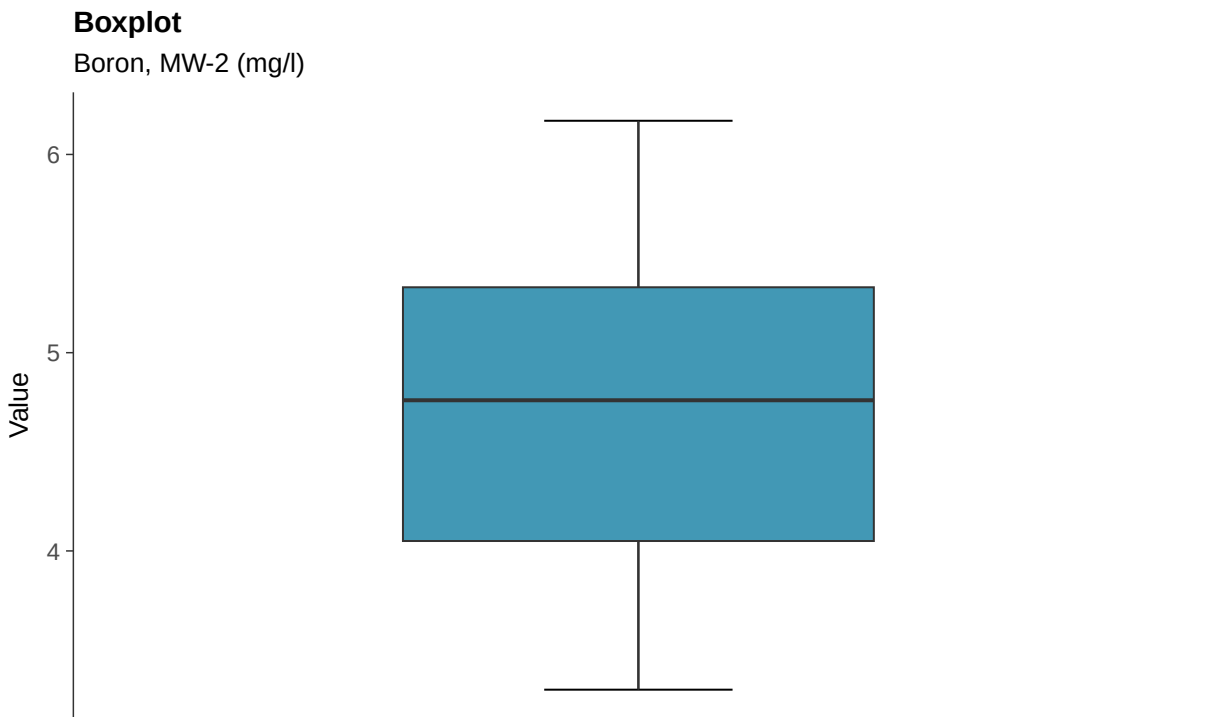
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Line 3			Break 1	Break 2	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend				
30_5_114	MW-100A	Part 115	Iron	mg/l	10	0	0%	0.044571	0.005	↑	-0.010143	0.275	↔	-0.00056774	0.673	↔	2023-08-22	2023-12-19	0.924	↔
30_5_129	MW-100A	Part 115	Zinc	mg/l	10	8	80%	> -0.0001	0.998	↔	< 0.0001	0.612	↔	> -0.0001	0.020	↔	2023-09-18	2024-06-06	0.878	↔
31_2_105	MW-100B	Appendix III	Boron	mg/l	10	0	0%	0.00036852	0.005	↑	-0.00027085	0.526	↔	0.0004479	0.004	↑	2023-11-27	2024-07-26	0.948	↔
31_2_107	MW-100B	Appendix III	Calcium	mg/l	10	0	0%	-0.070204	0.007	↓	0.074286	0.408	↔	-0.071429	0.010	↓	2023-12-09	2024-06-10	0.935	↔
31_2_126	MW-100B	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	-0.39429	0.002	↓	0.19465	0.187	↔	-0.43956	0.001	↓	2023-11-07	2024-07-19	0.979	↔

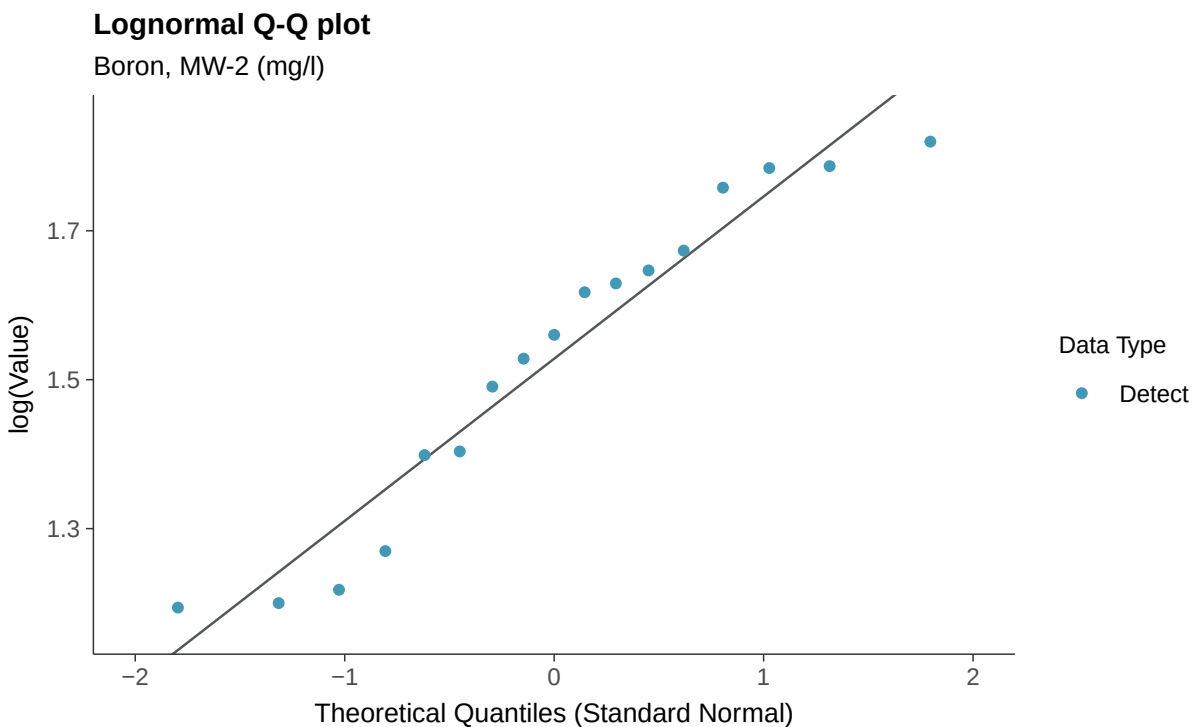
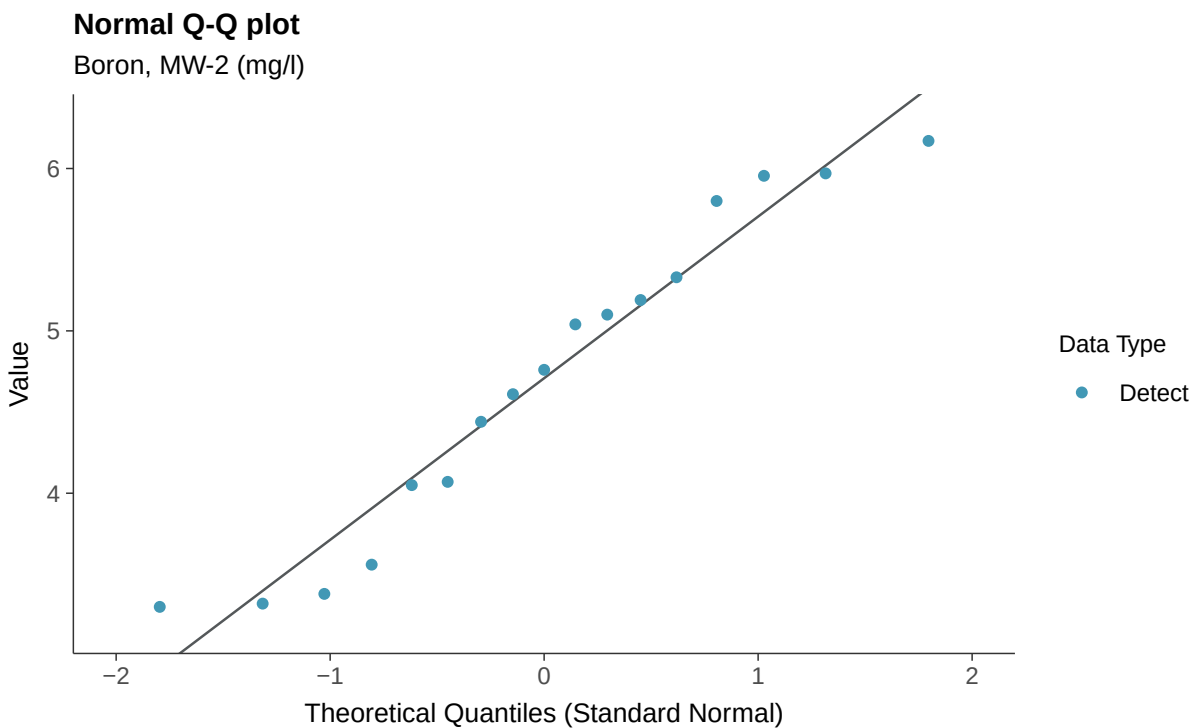


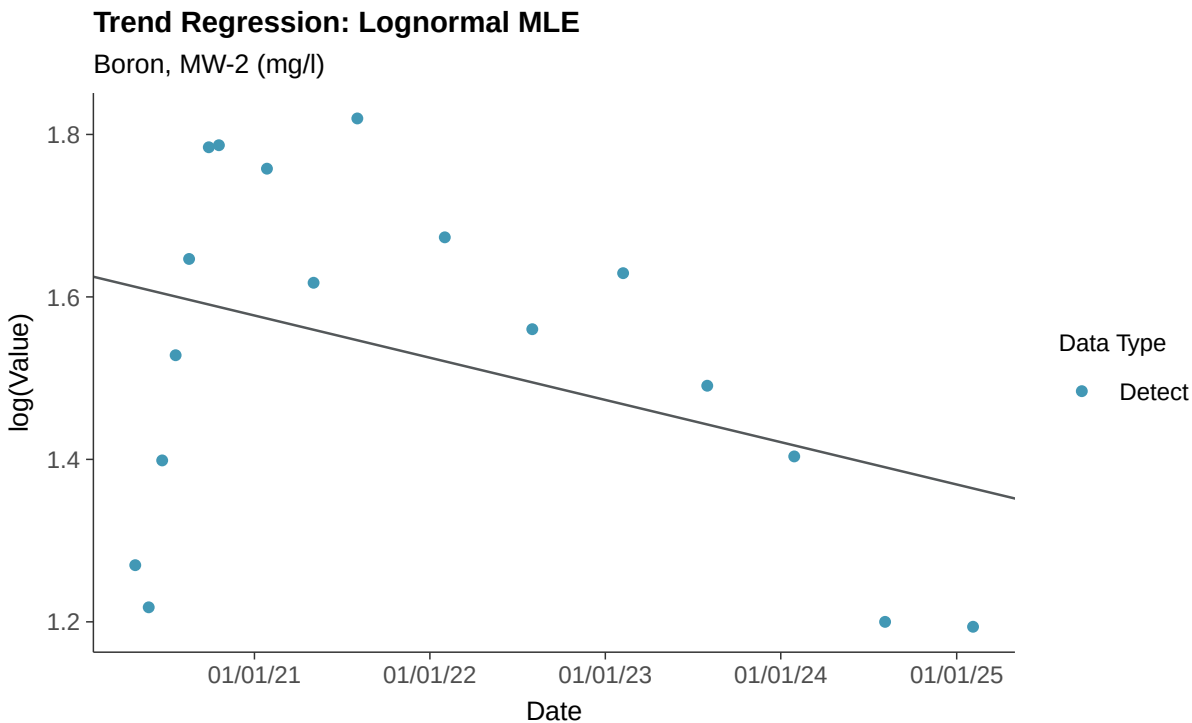
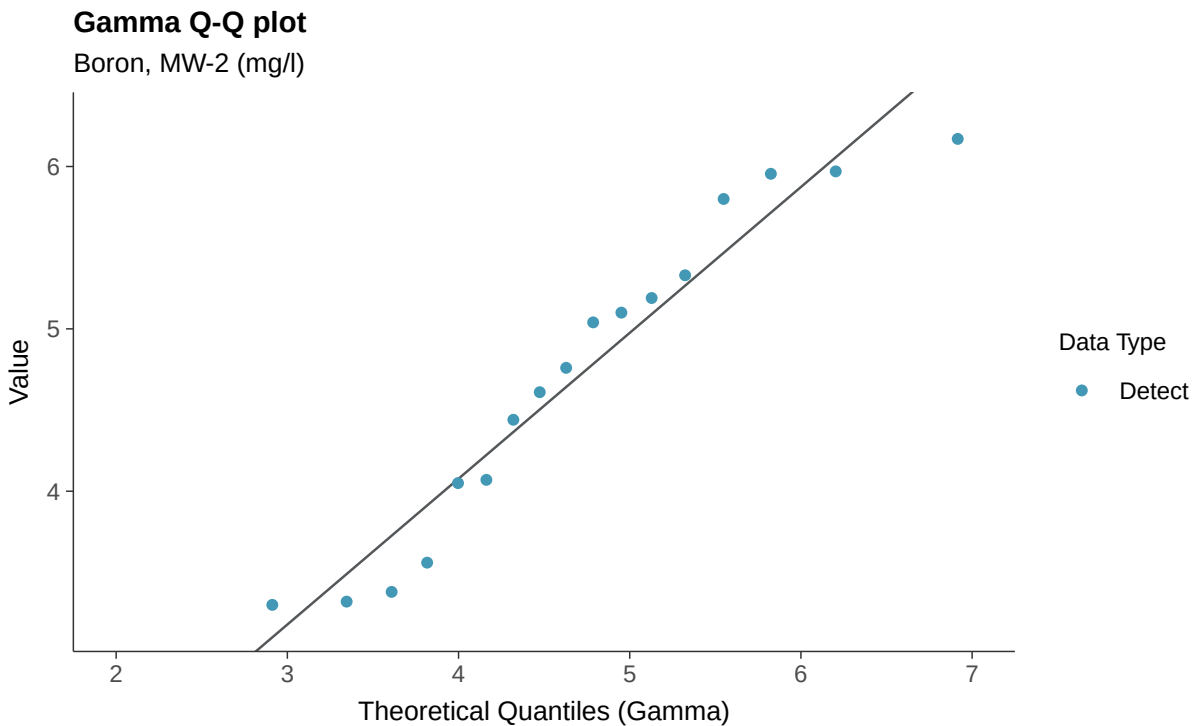
Appendix III: Boron, MW-2

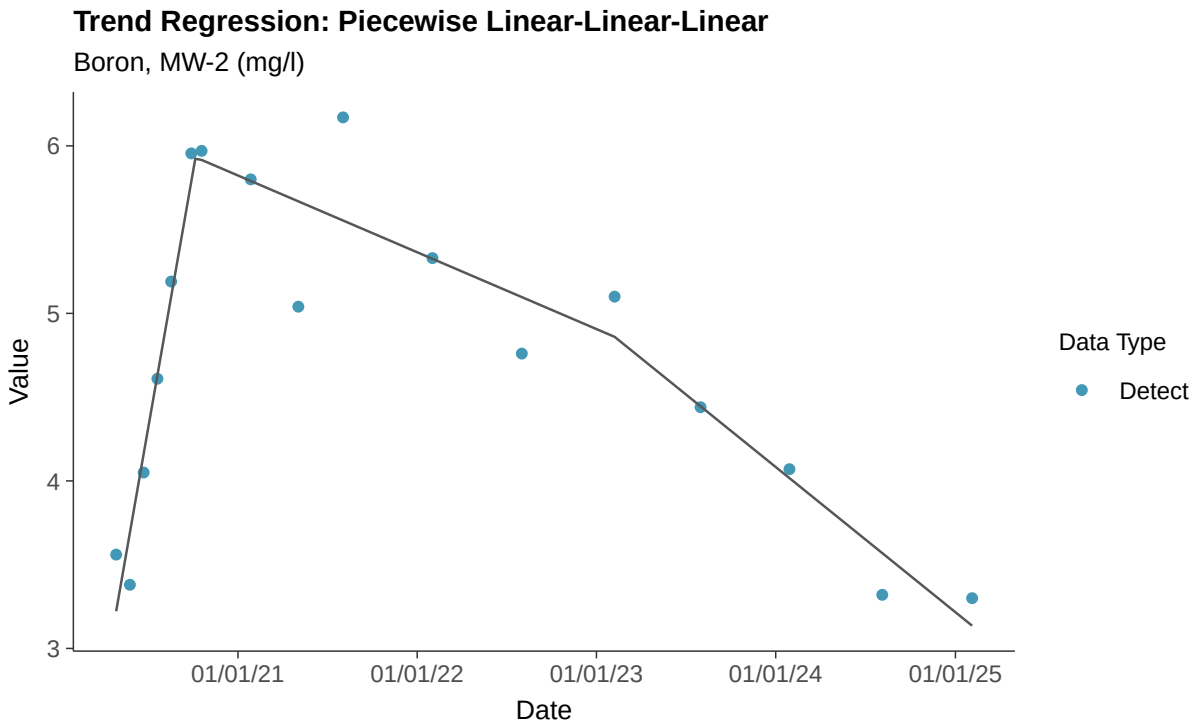
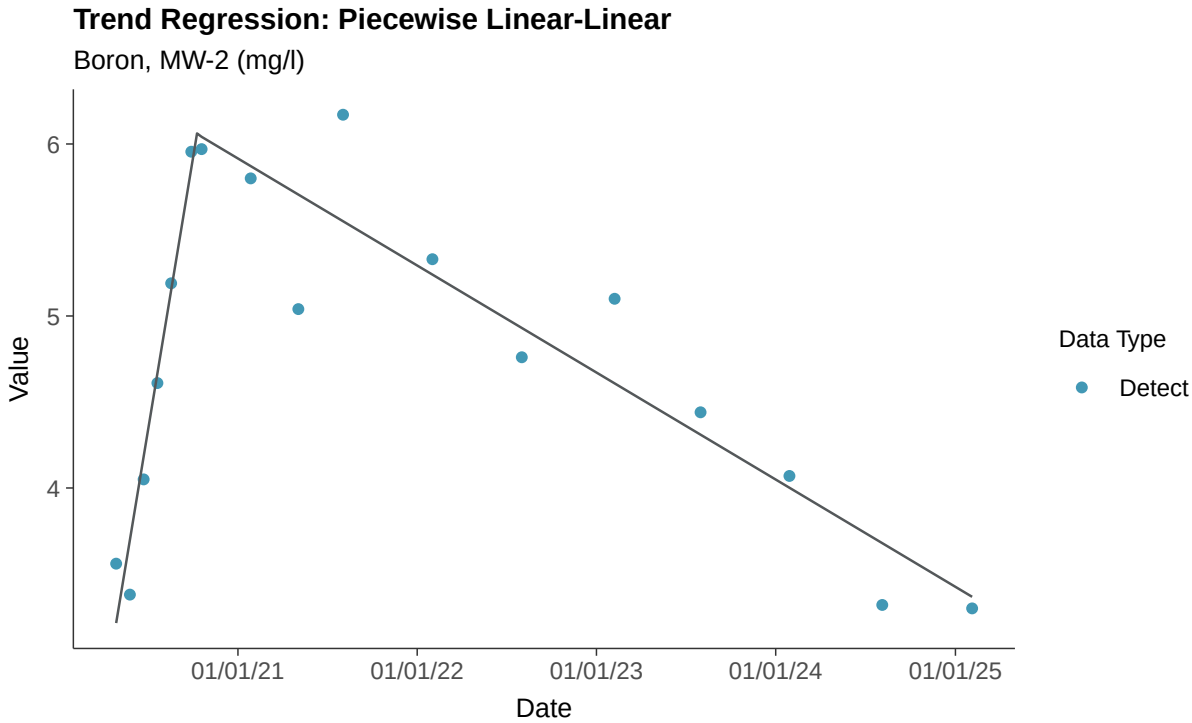
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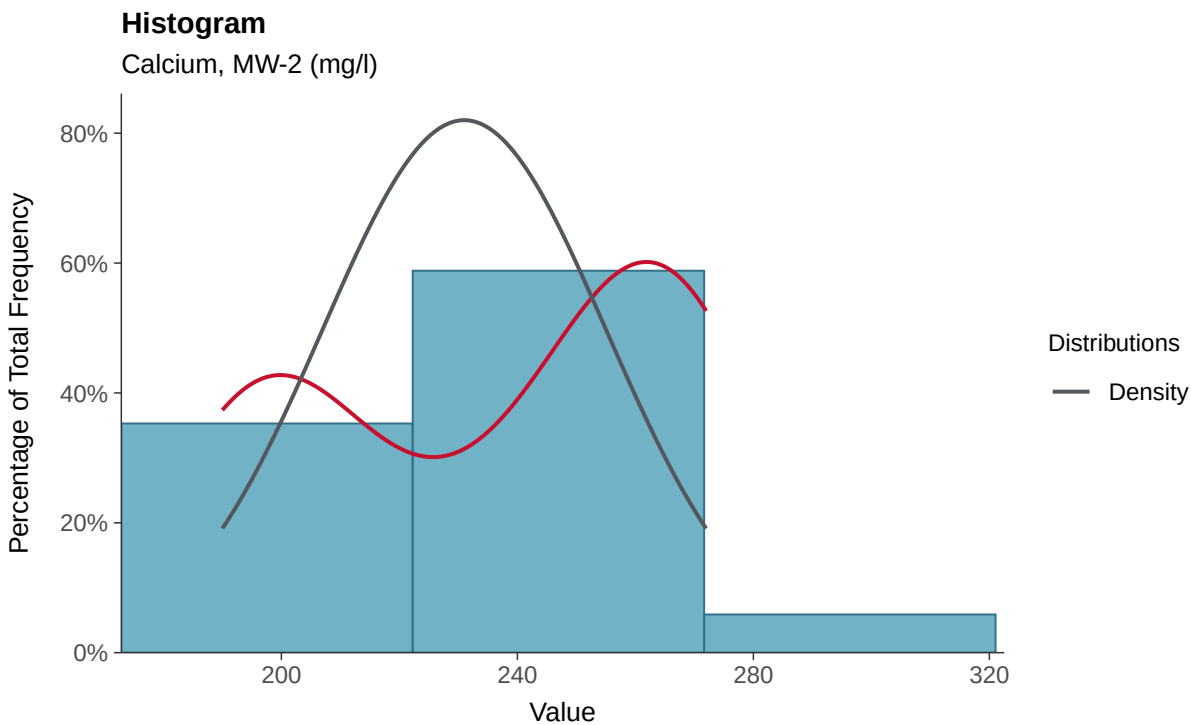
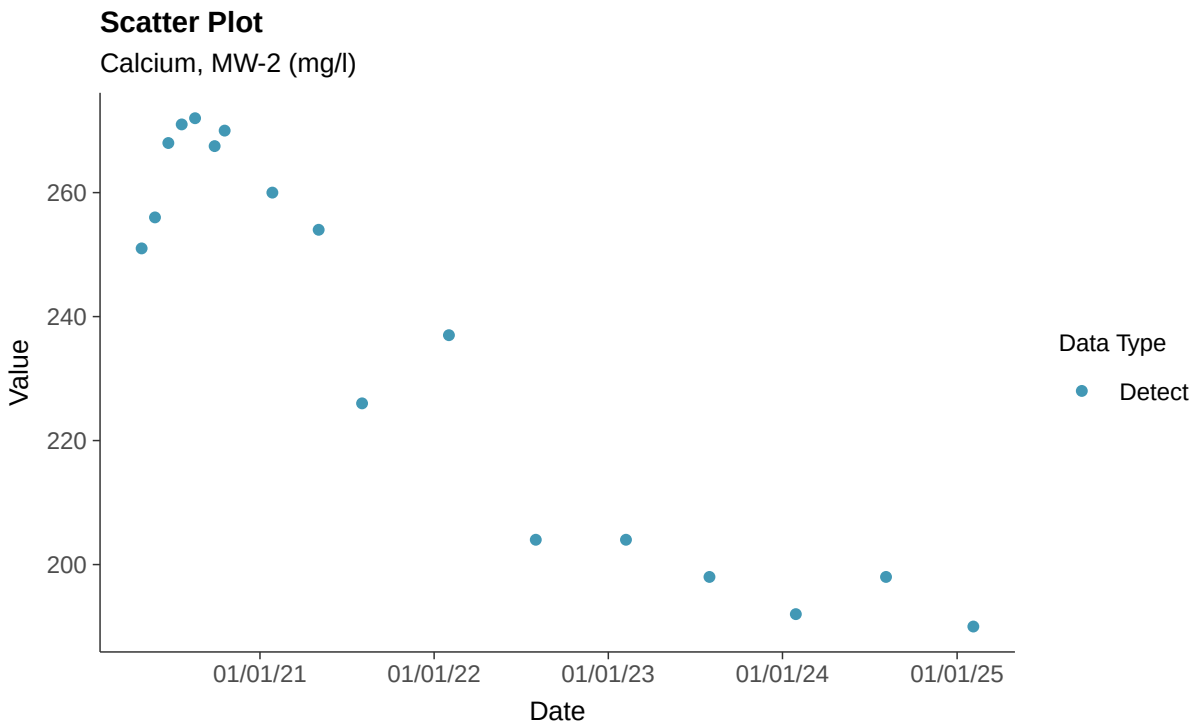


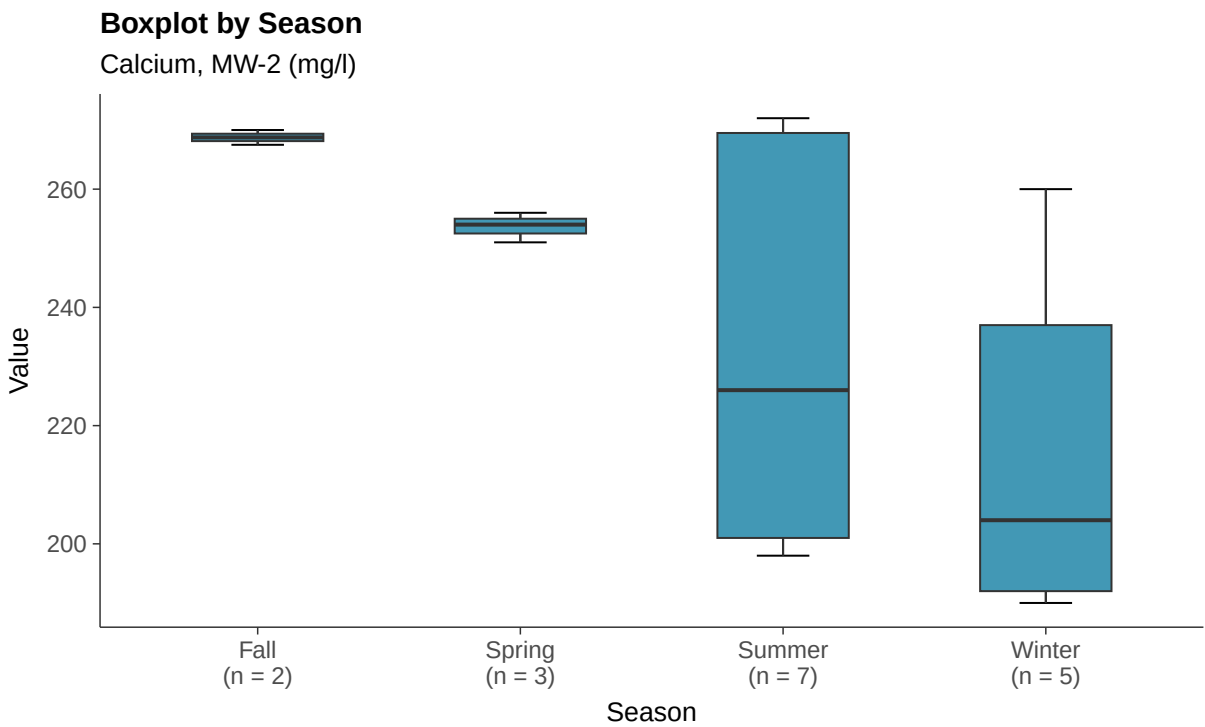
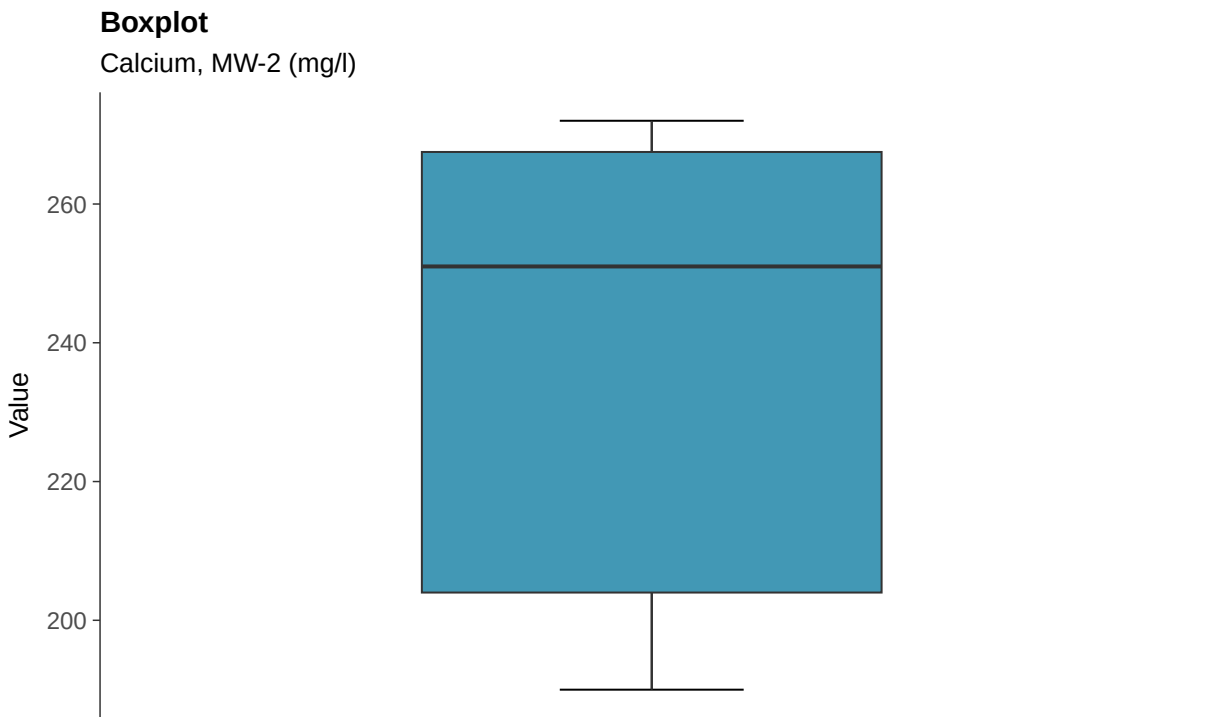


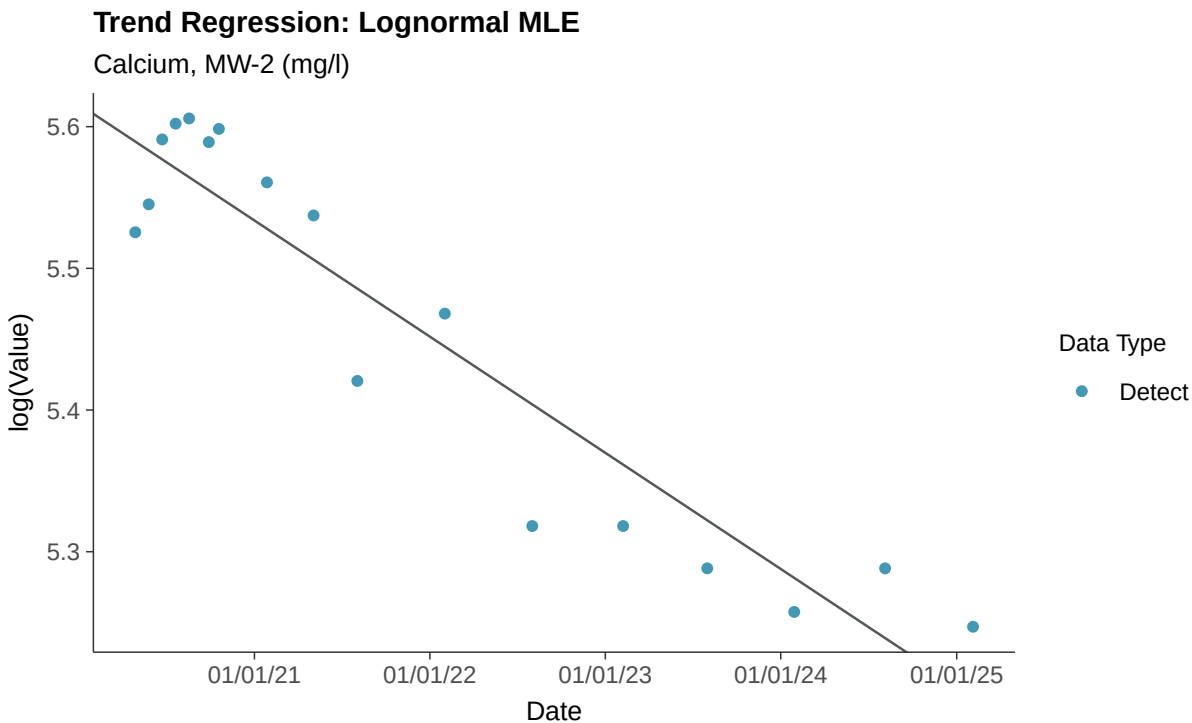
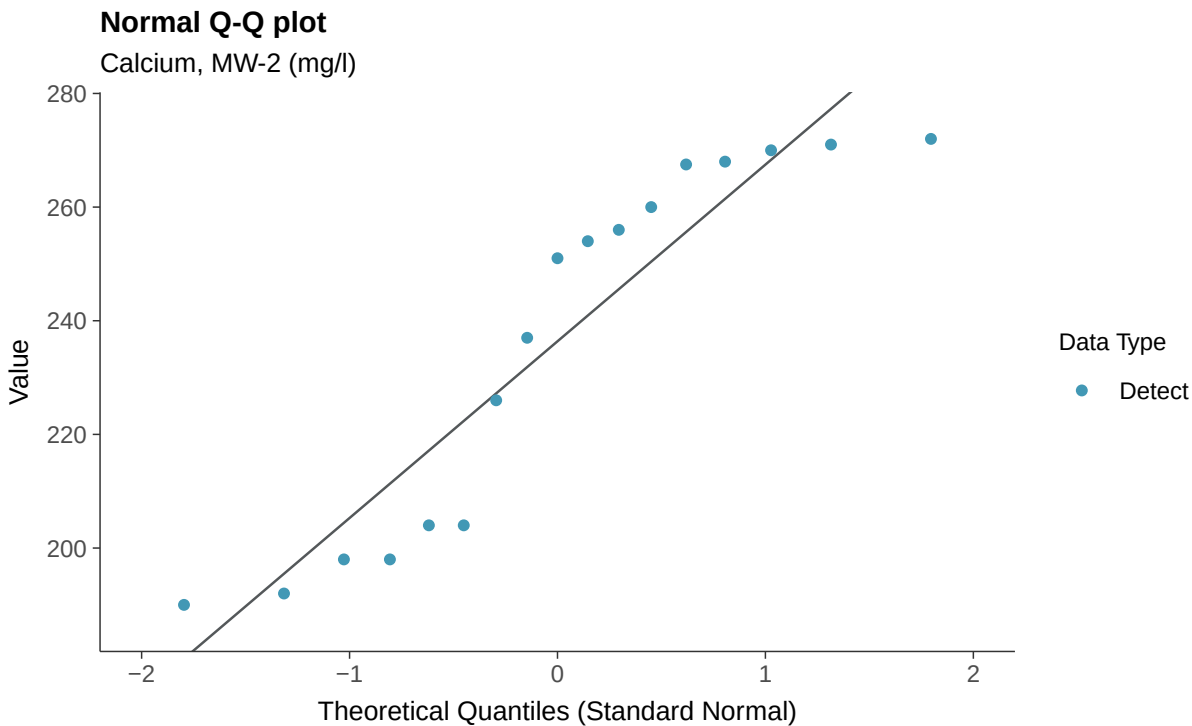


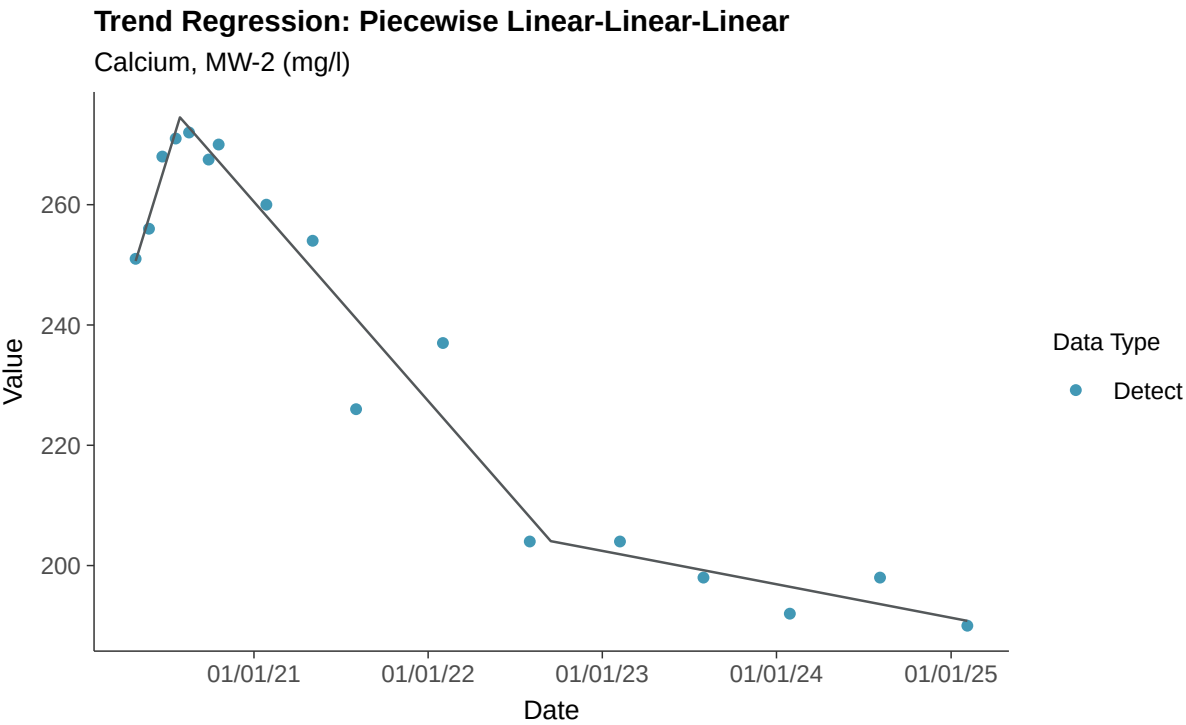
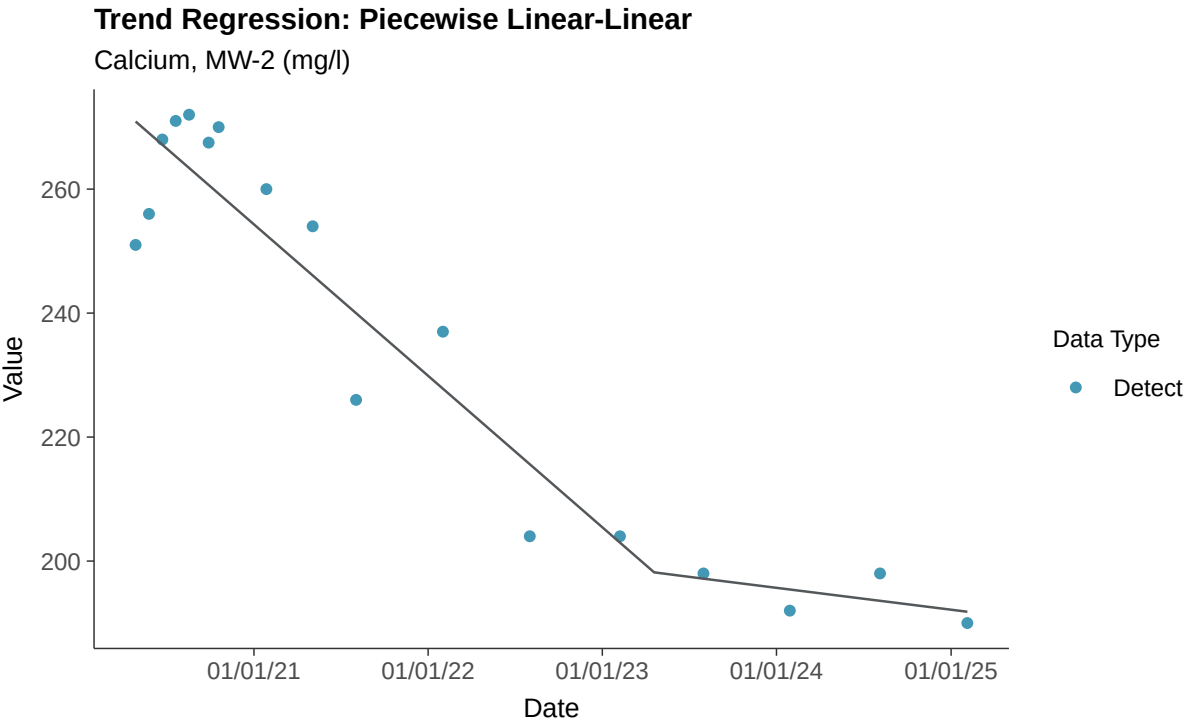
Appendix III: Calcium, MW-2

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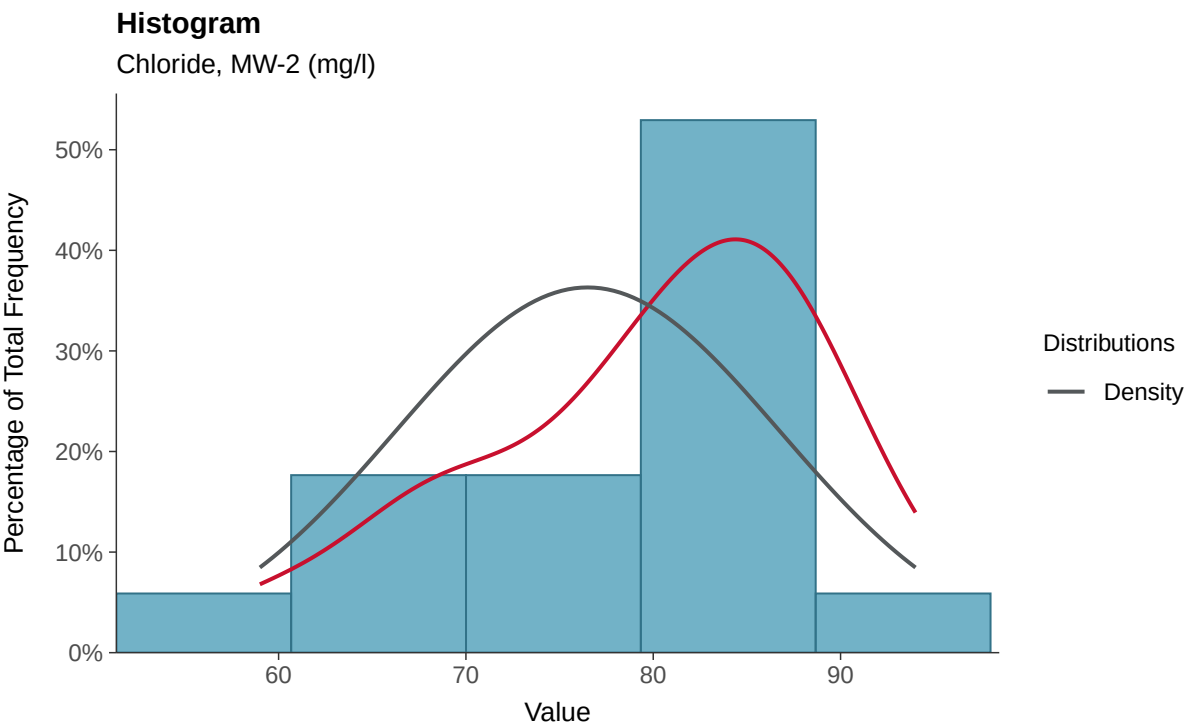
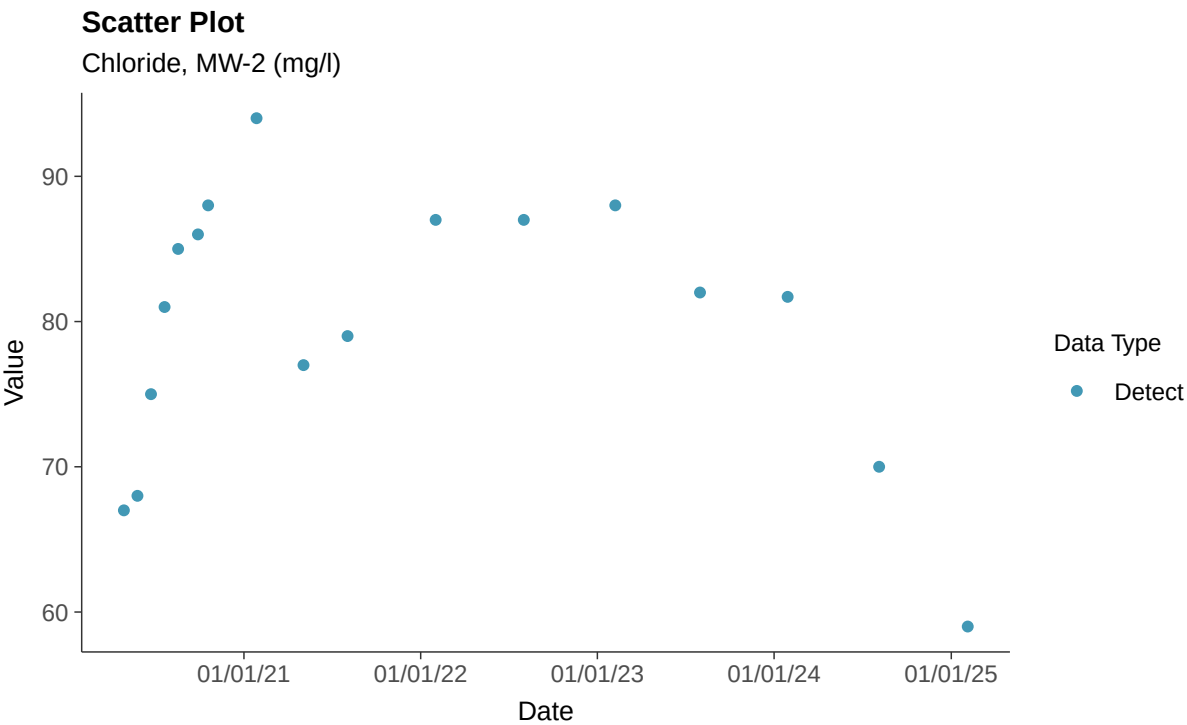


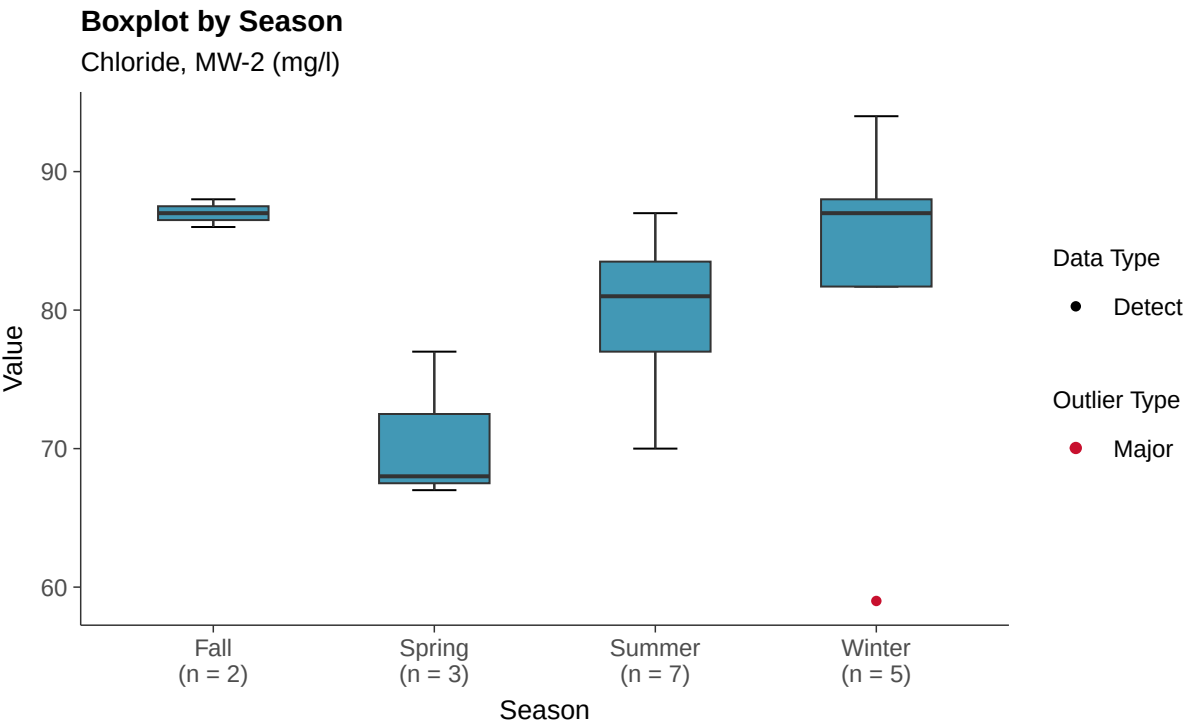
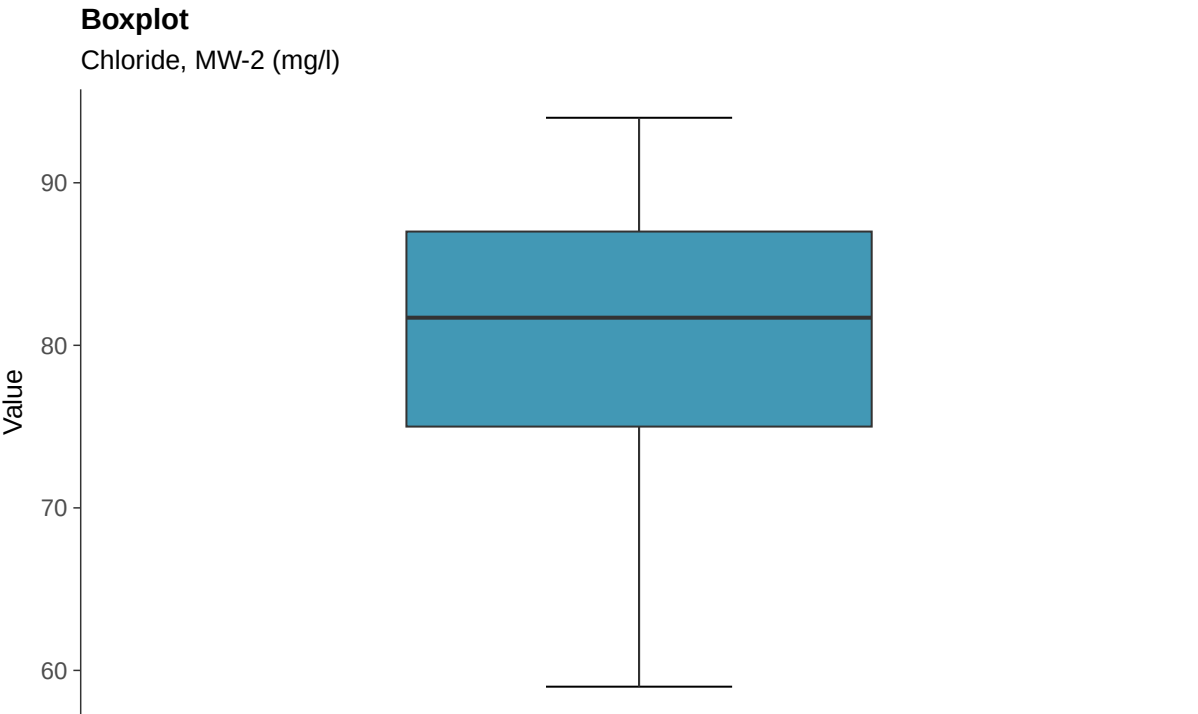


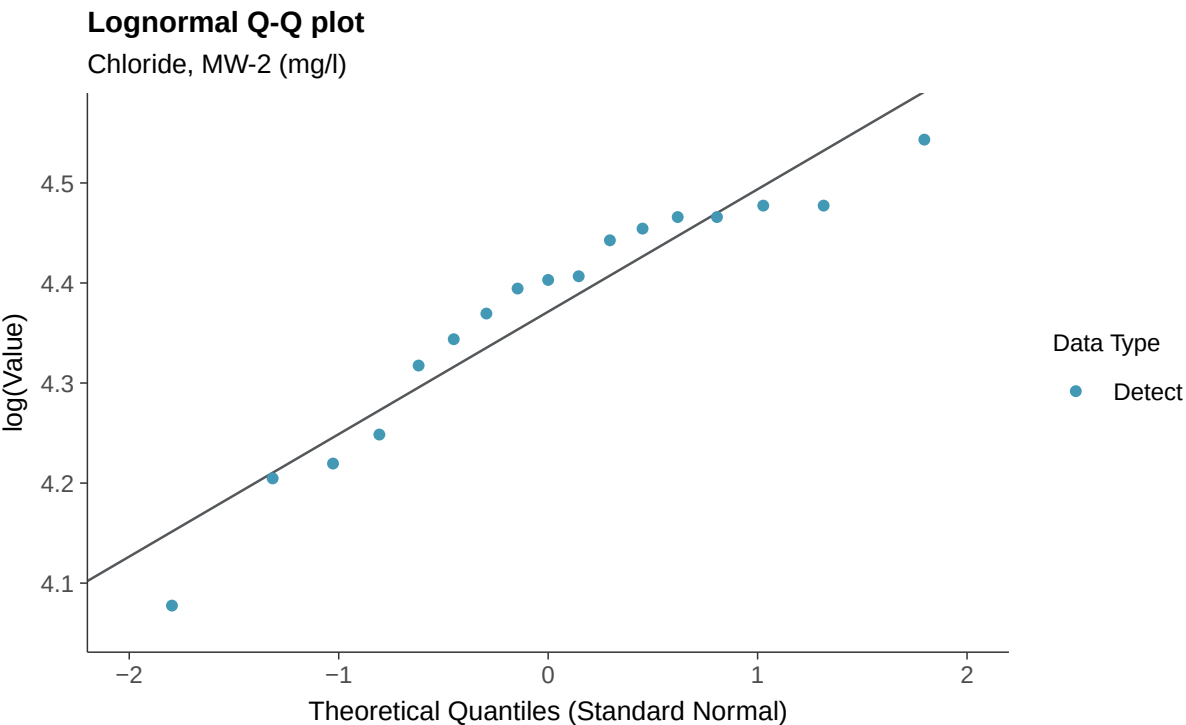
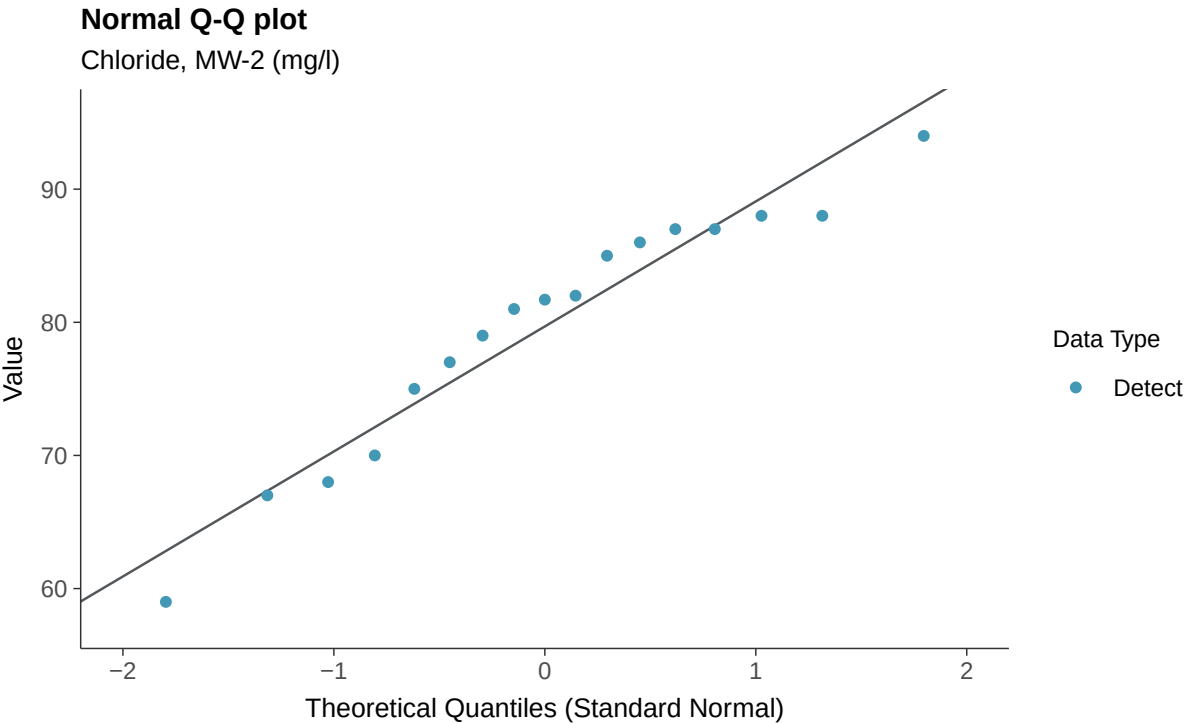


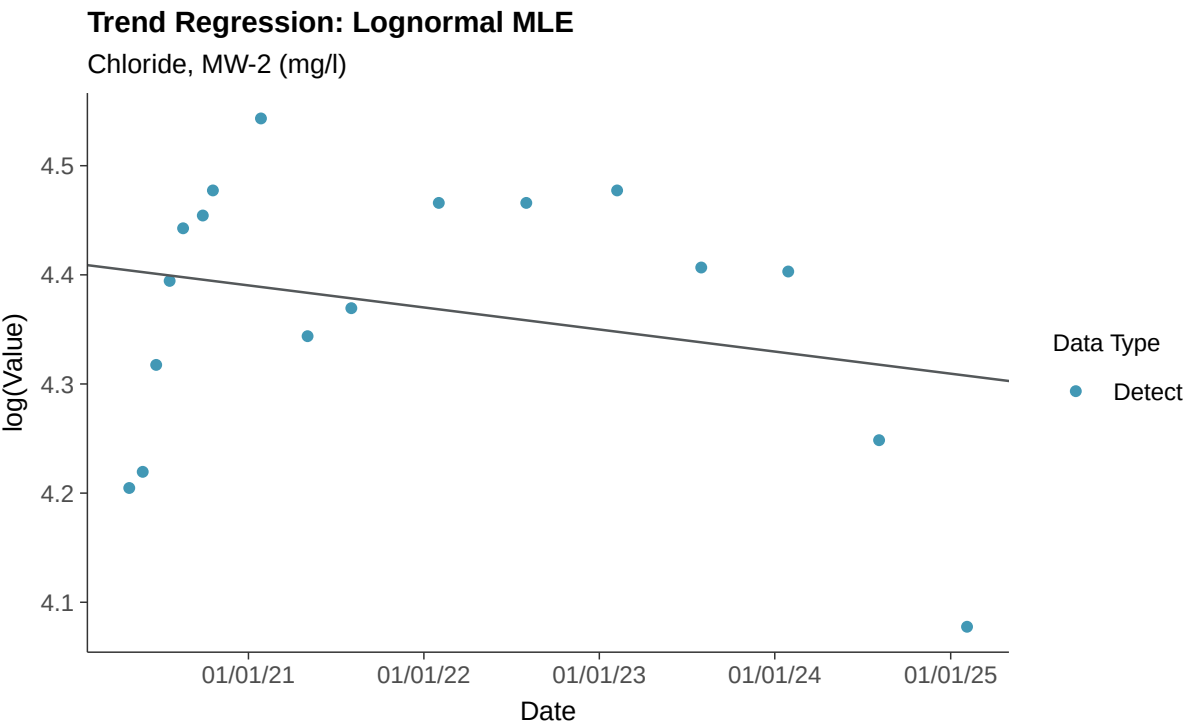
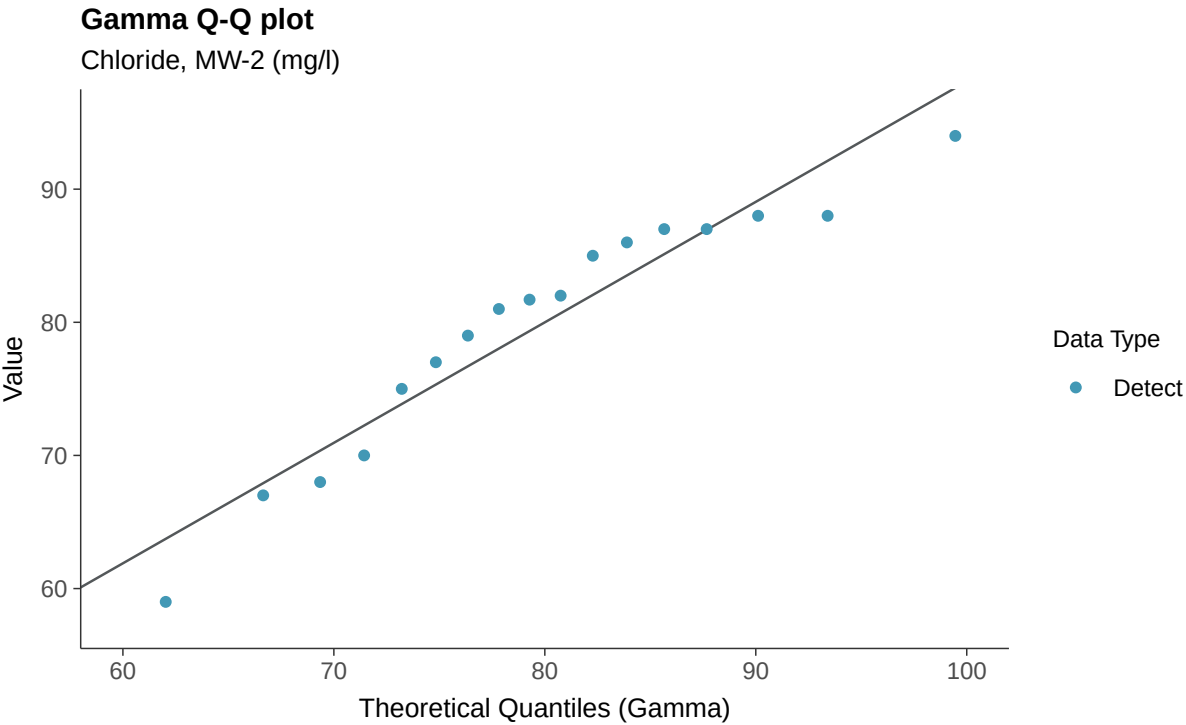
Appendix III: Chloride, MW-2

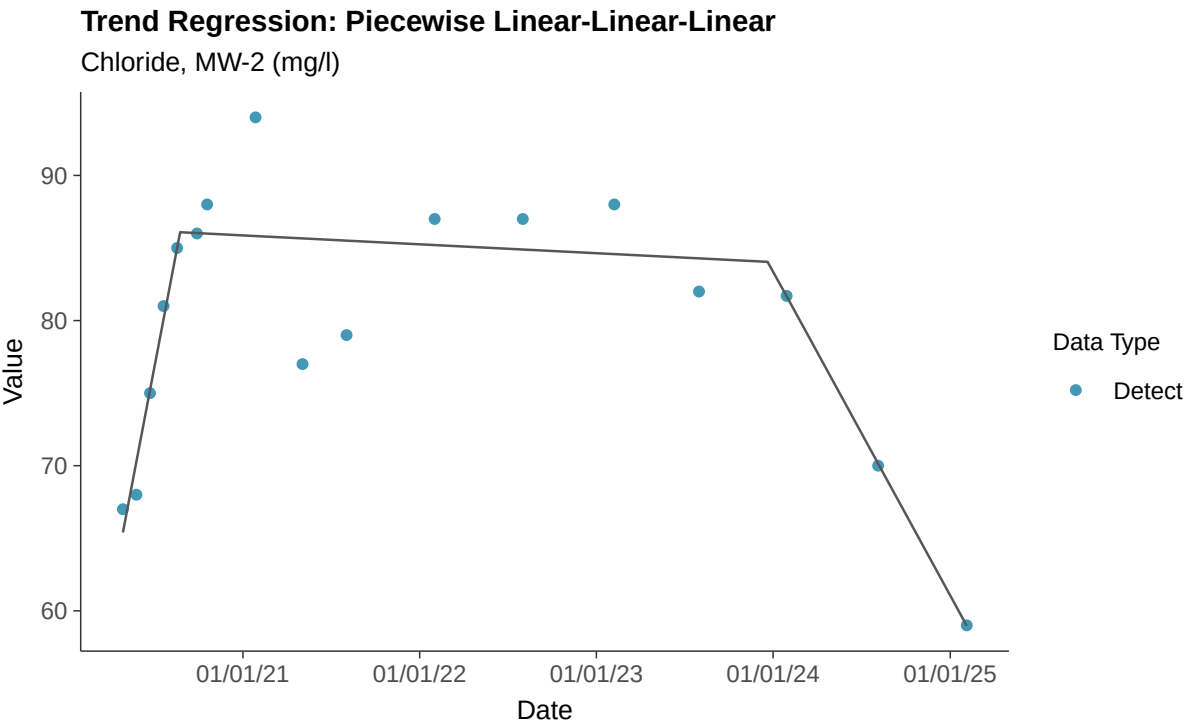
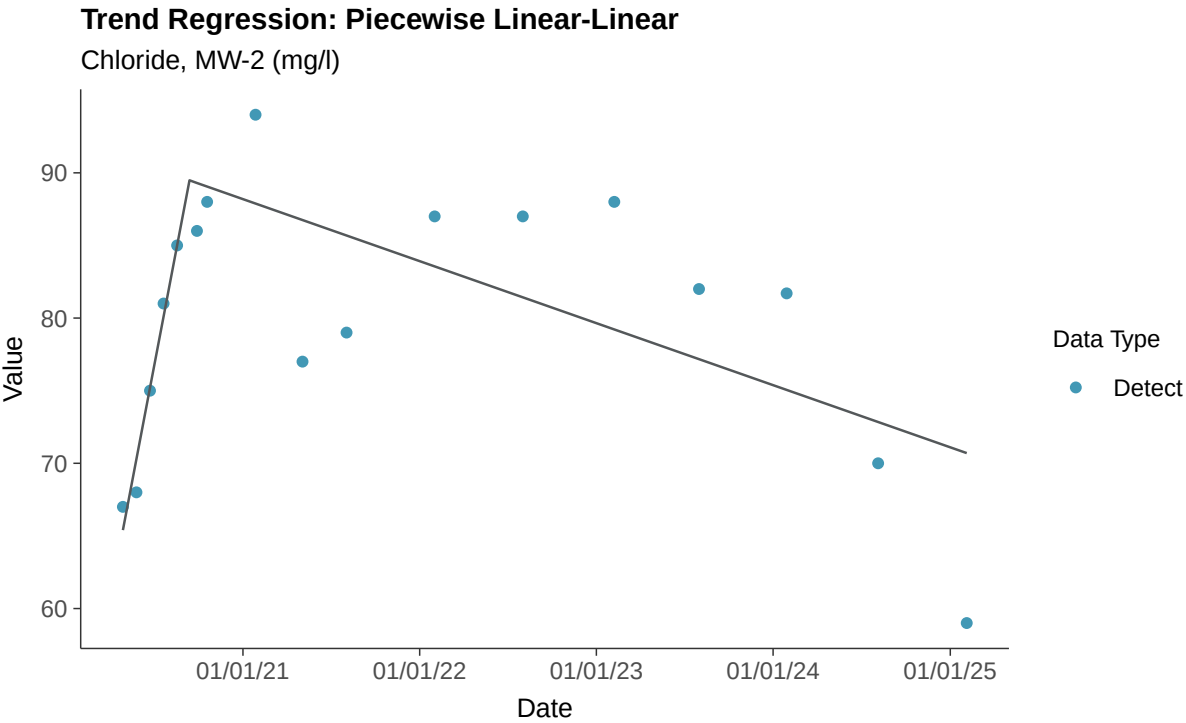
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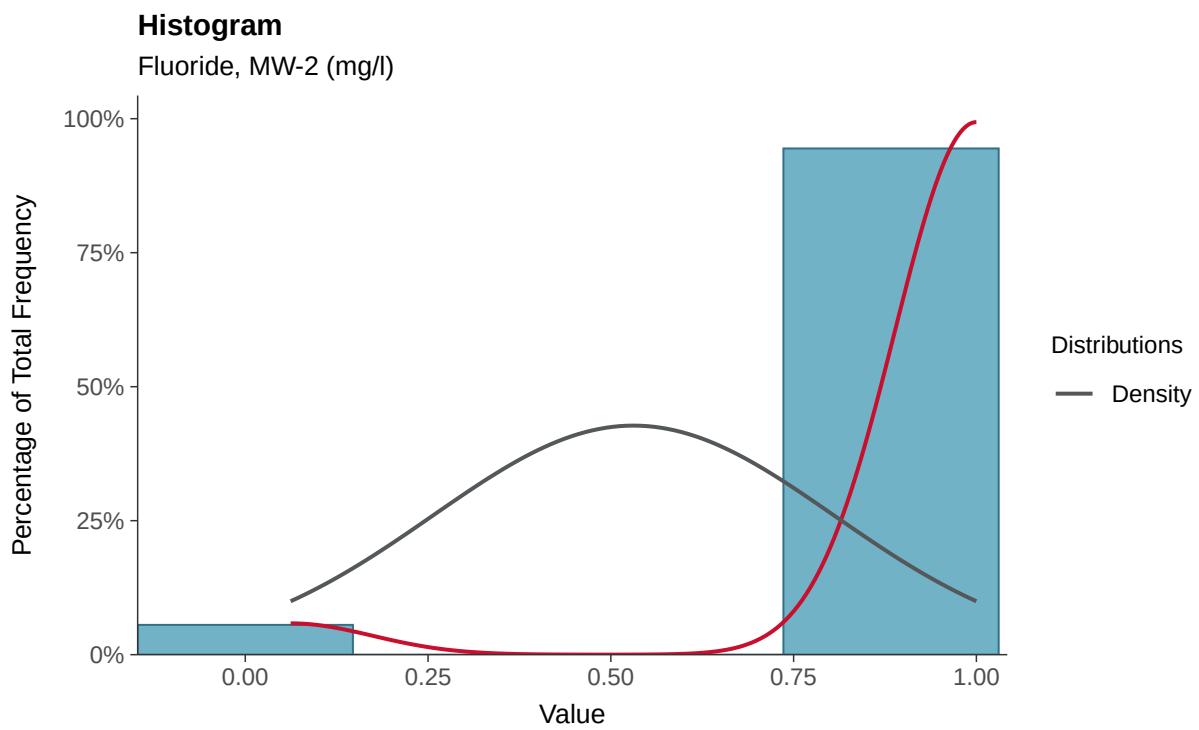


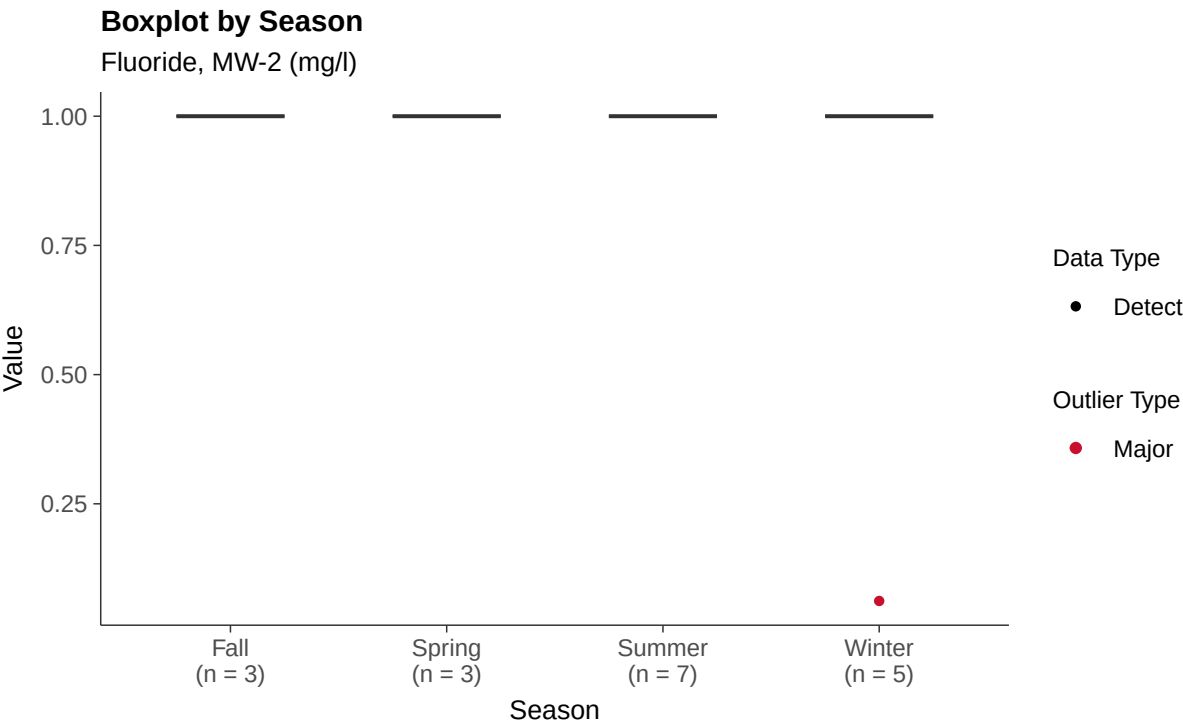
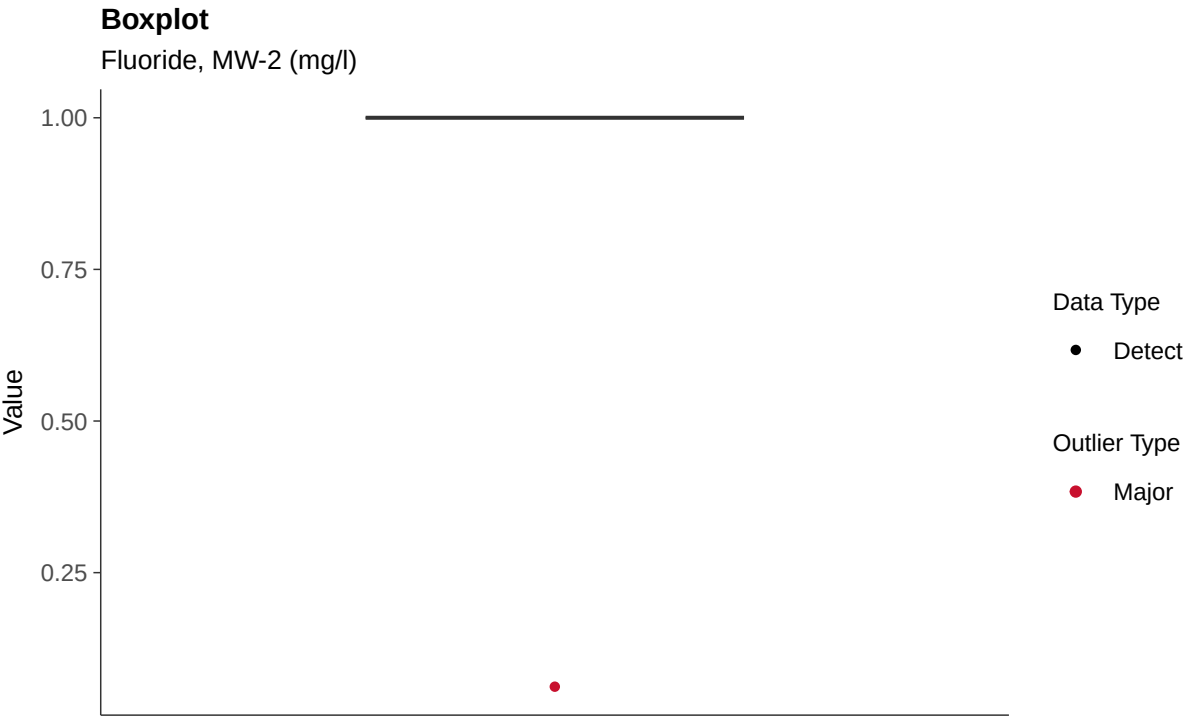








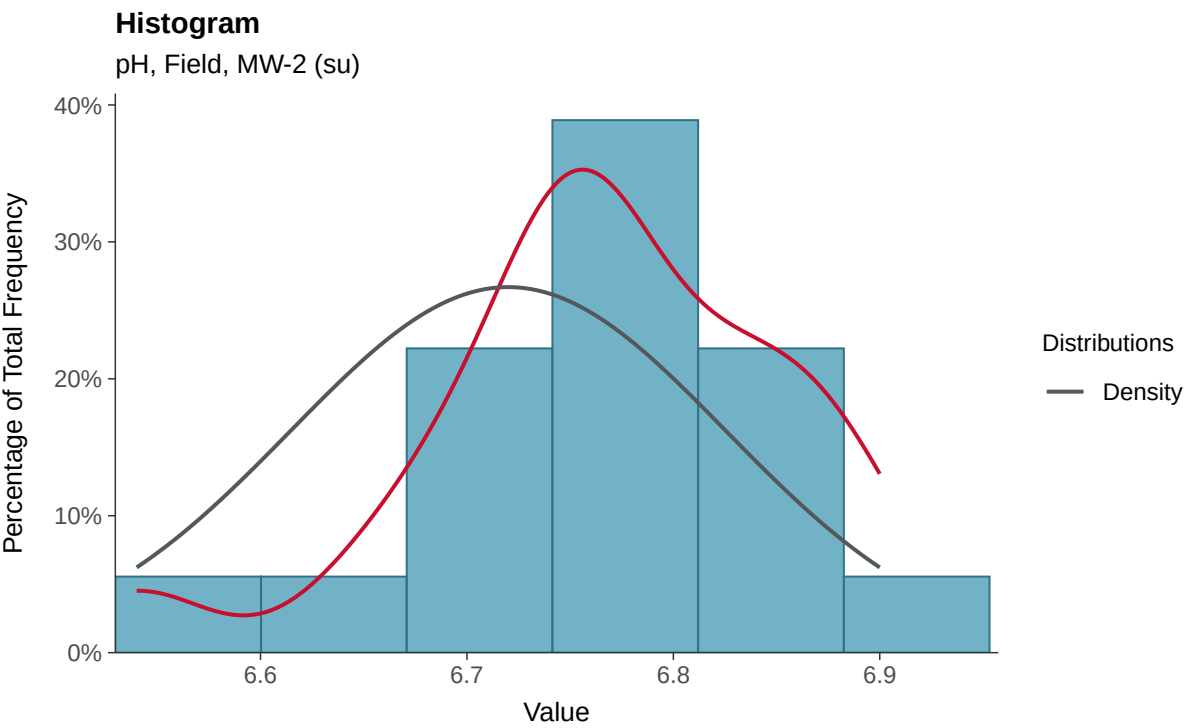
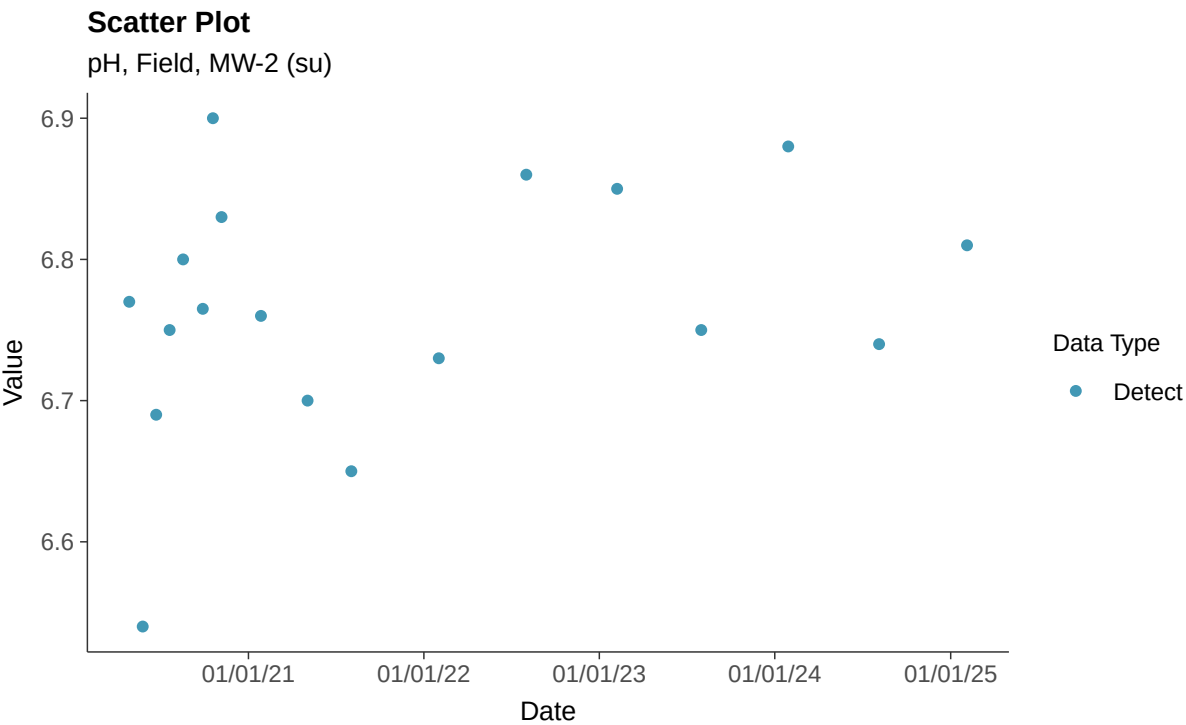


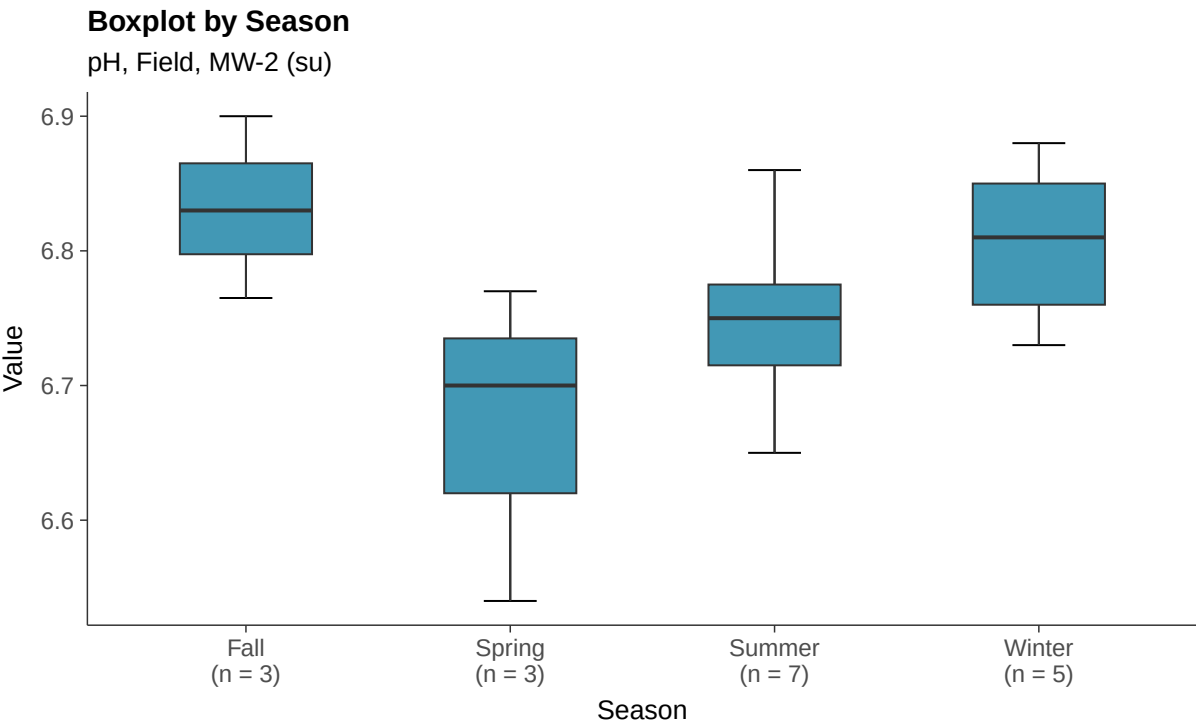
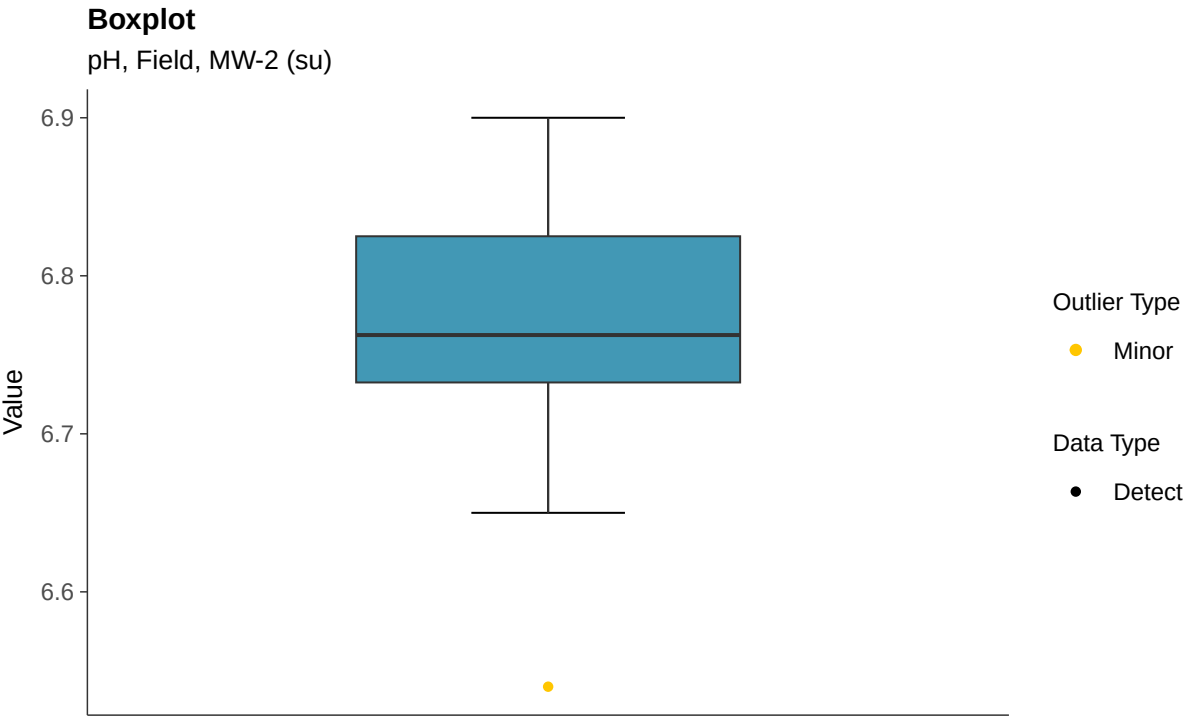


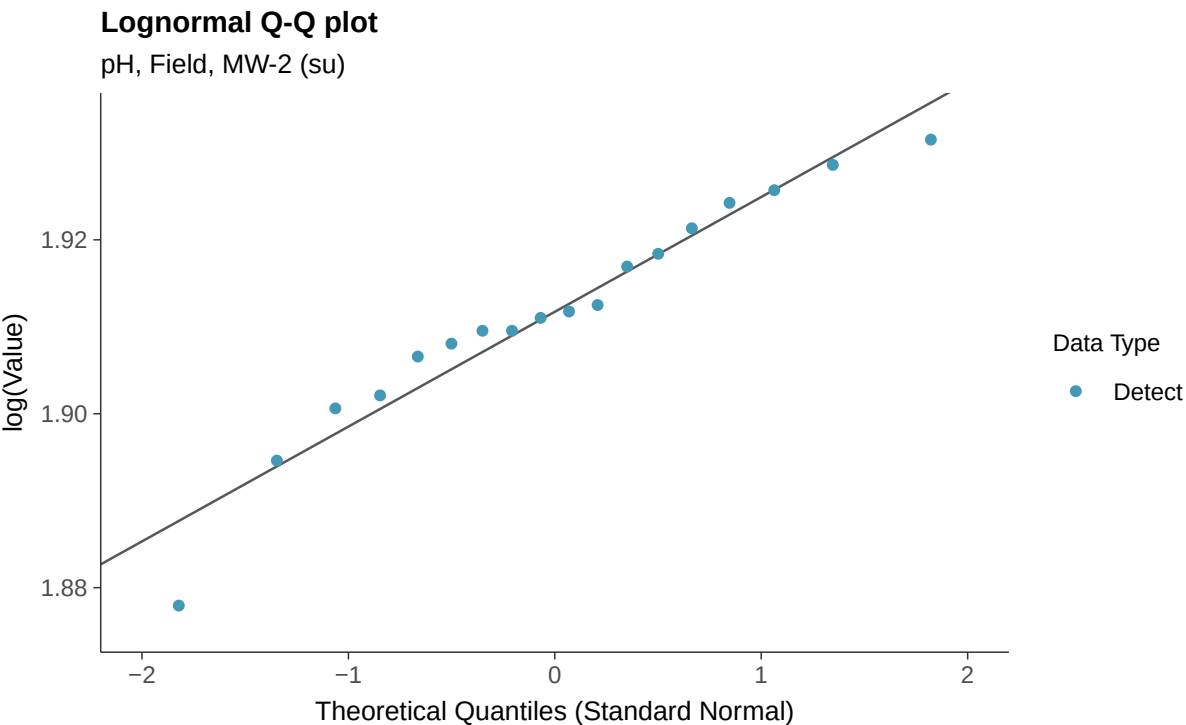
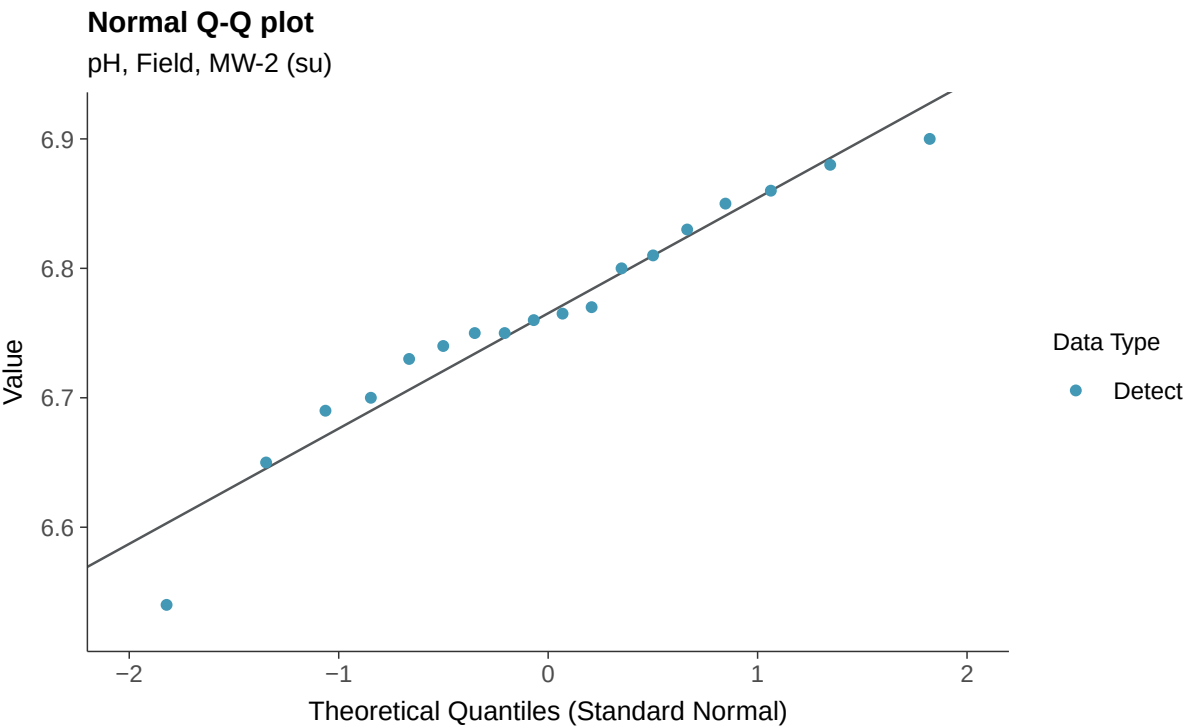


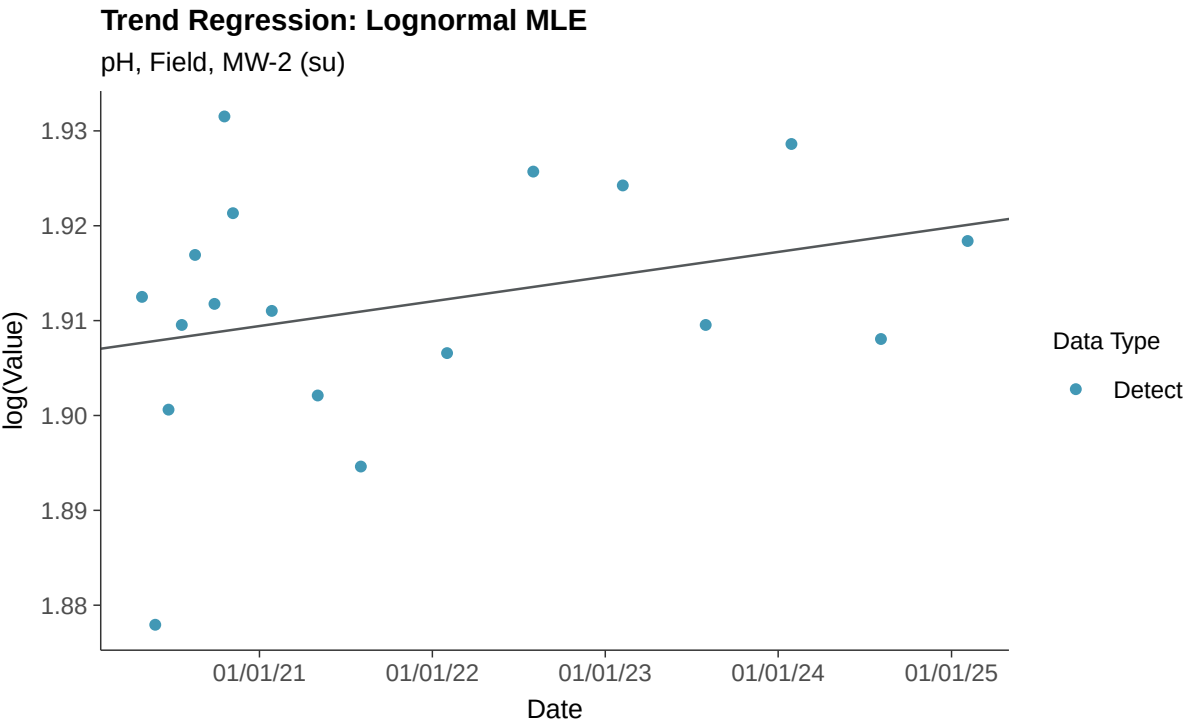
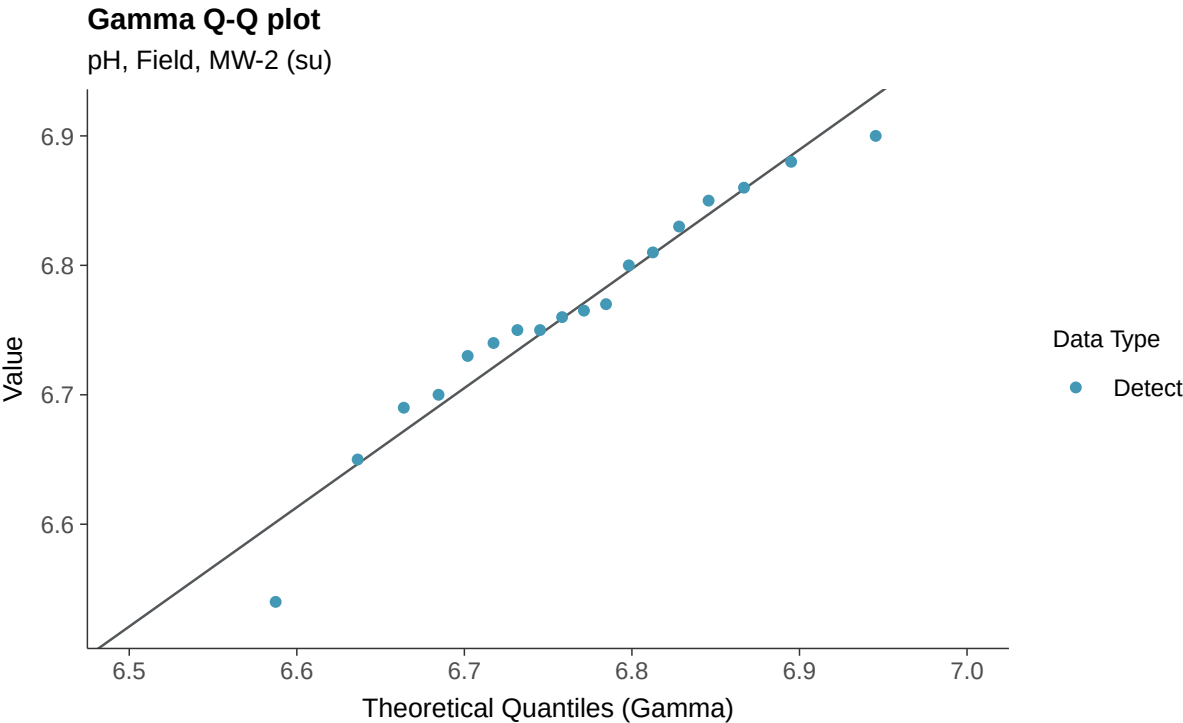
Appendix III: pH, Field, MW-2

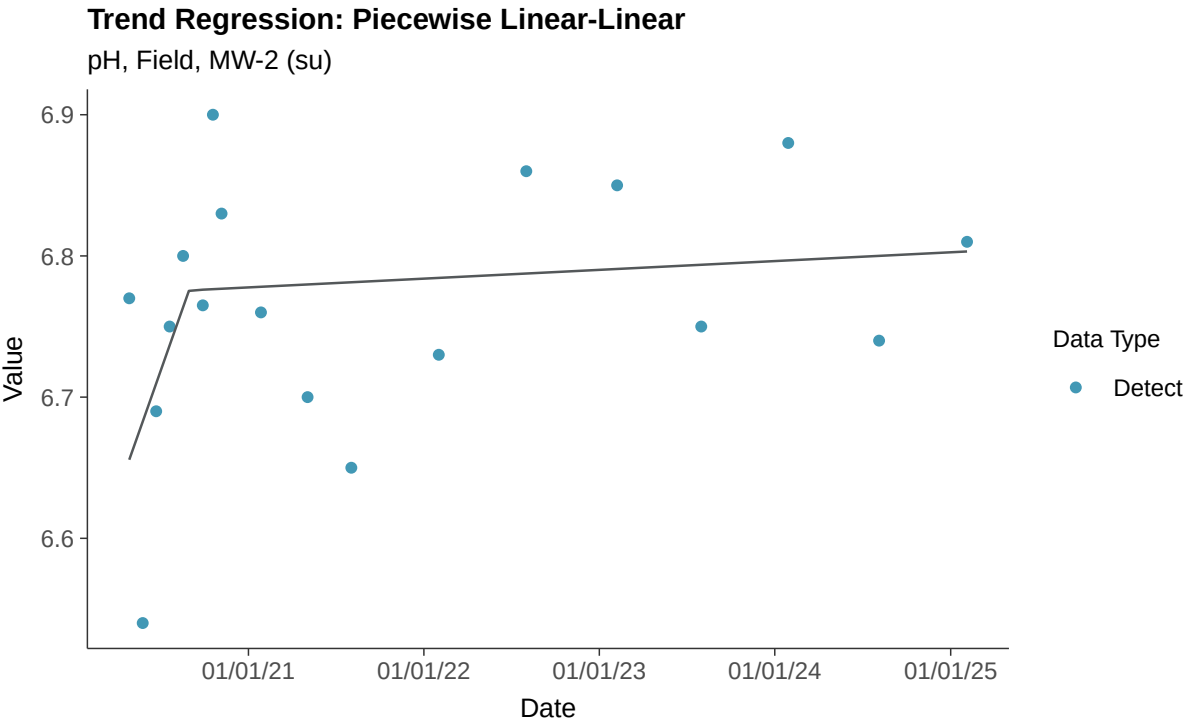
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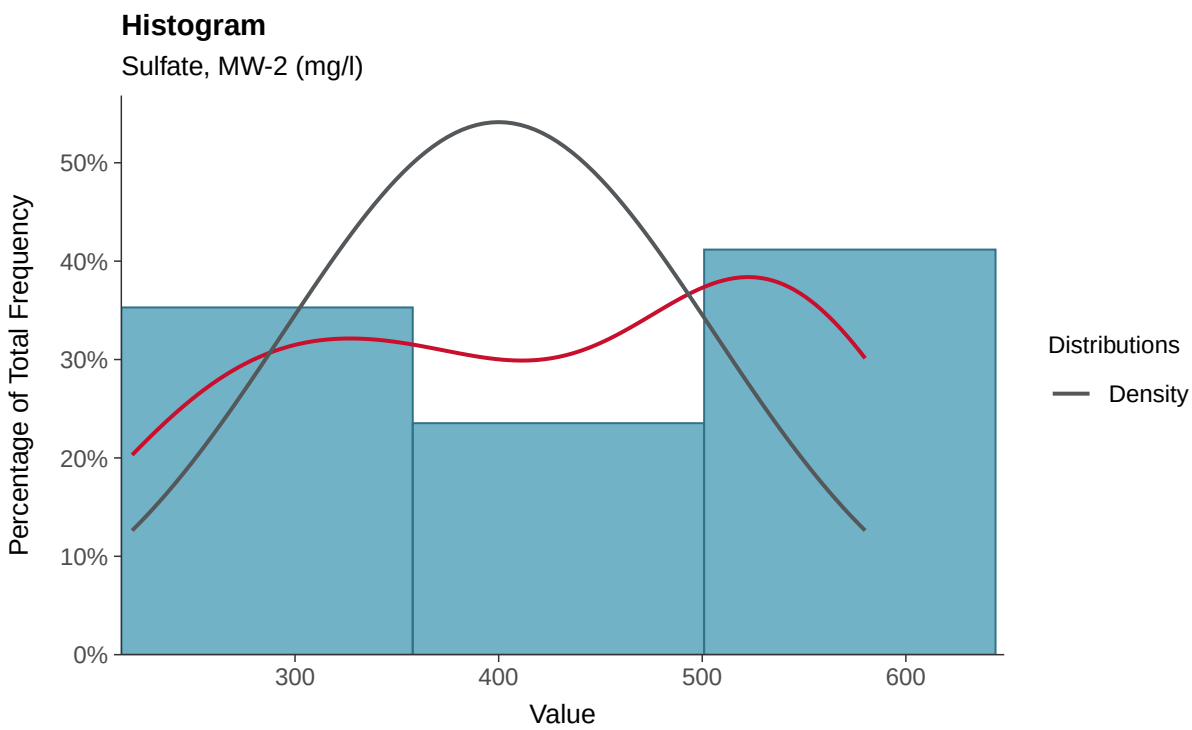
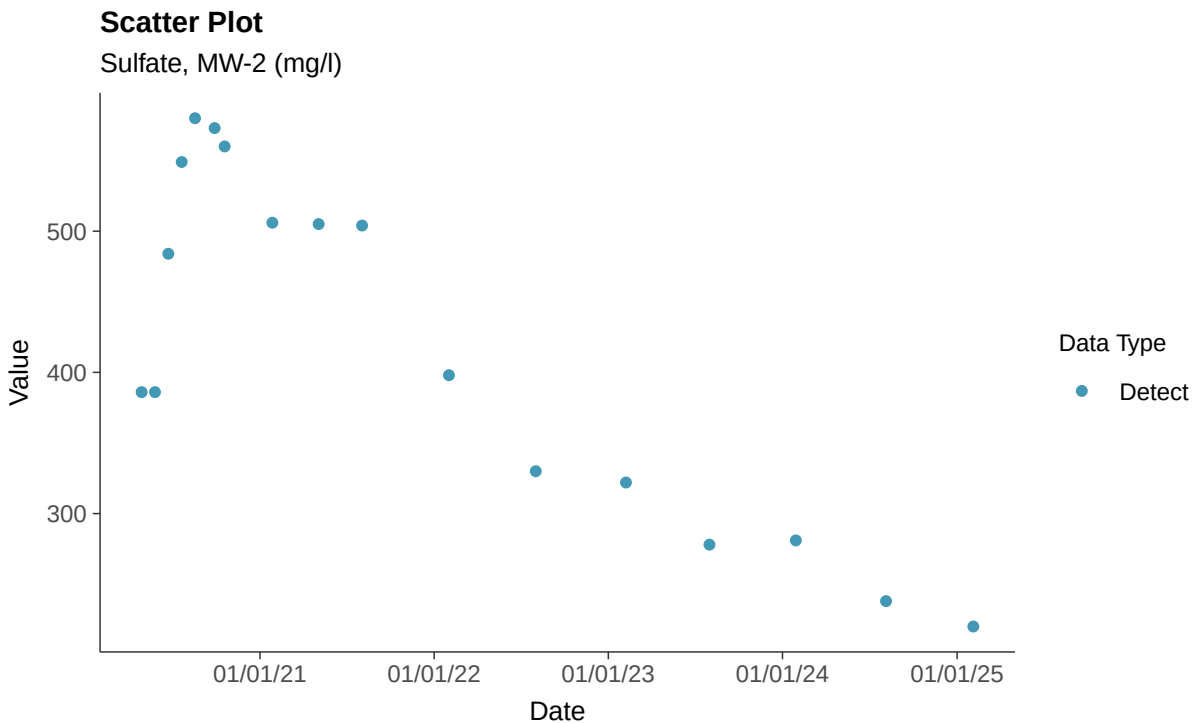


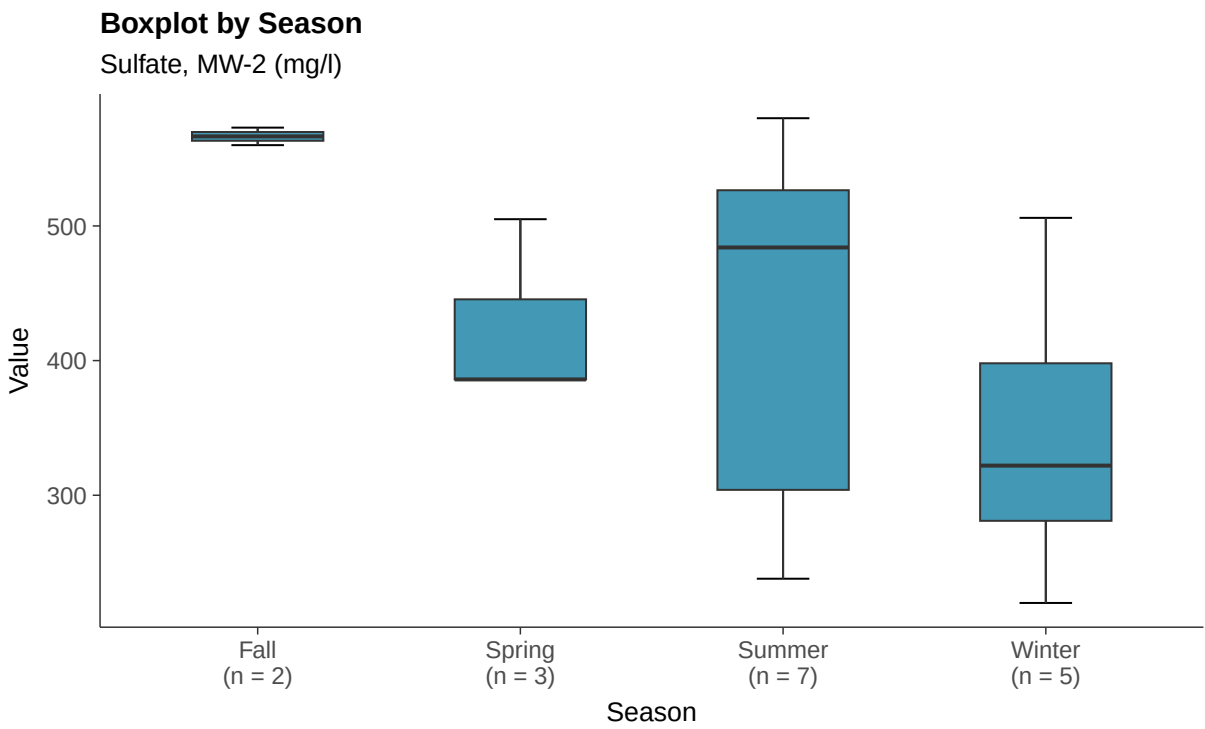
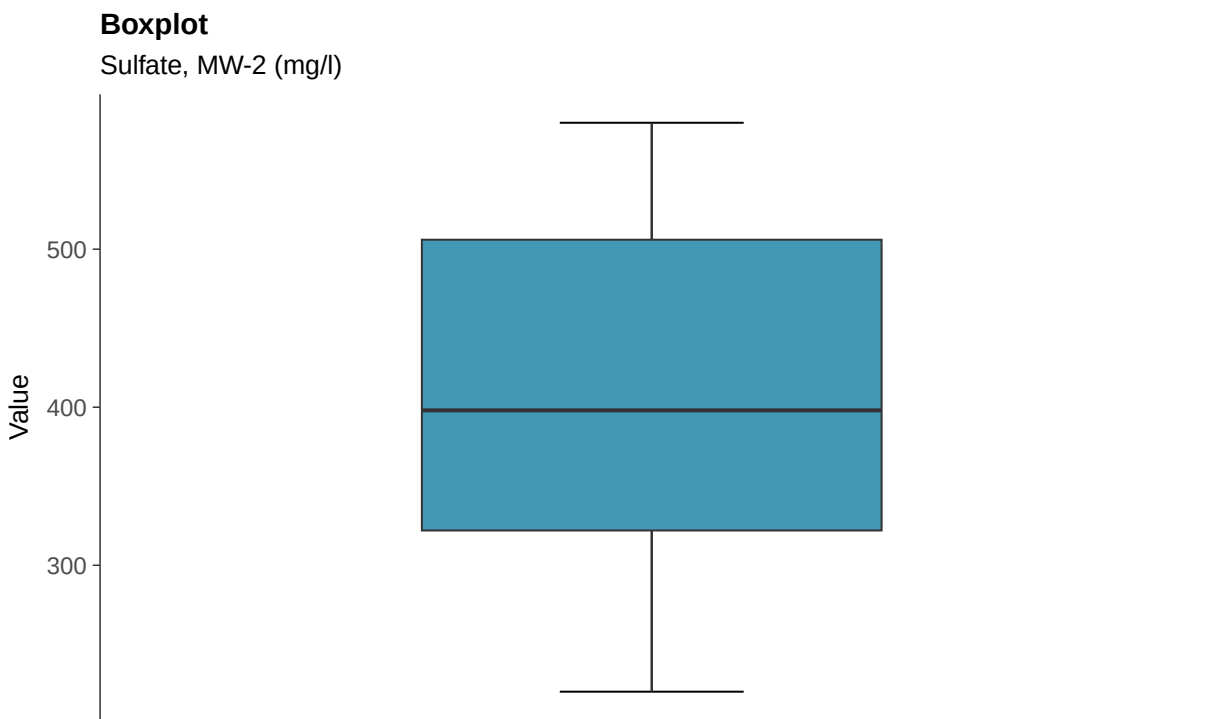


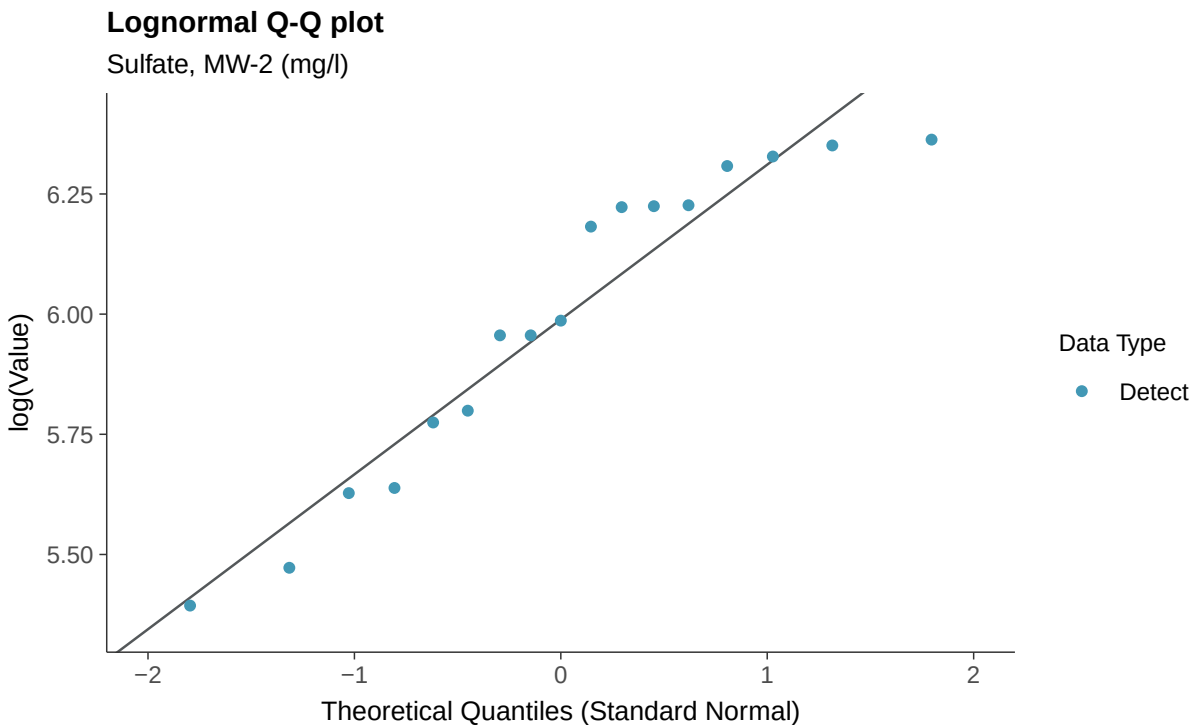
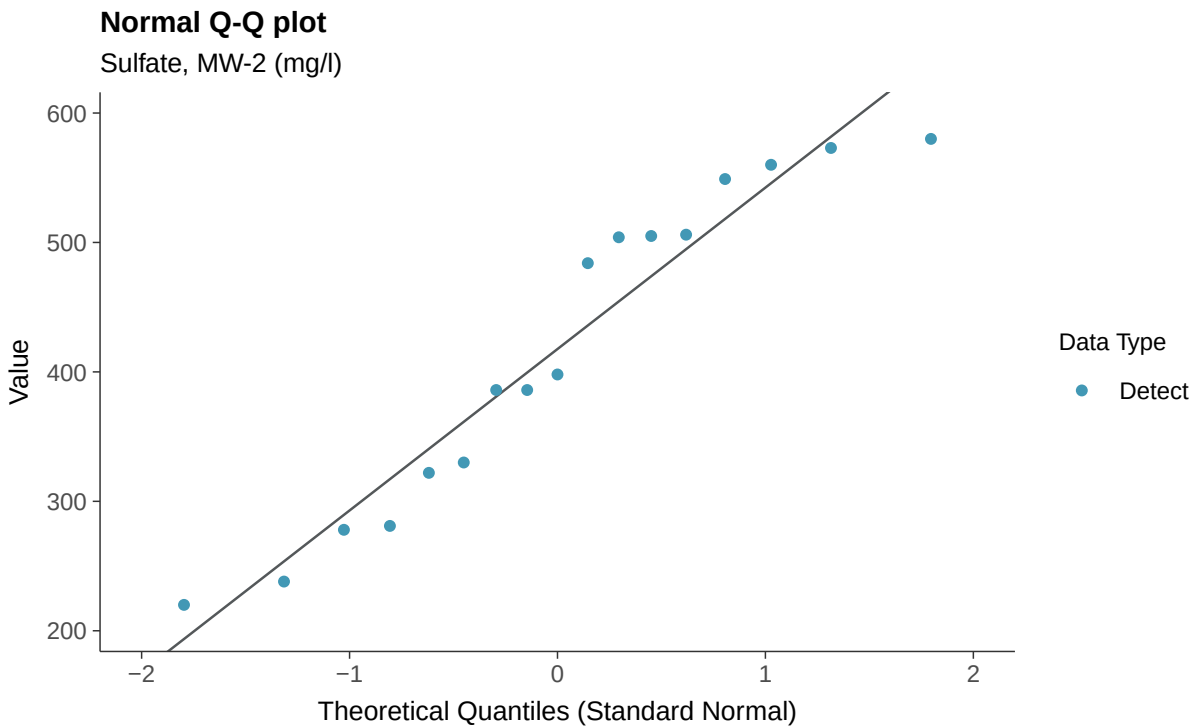


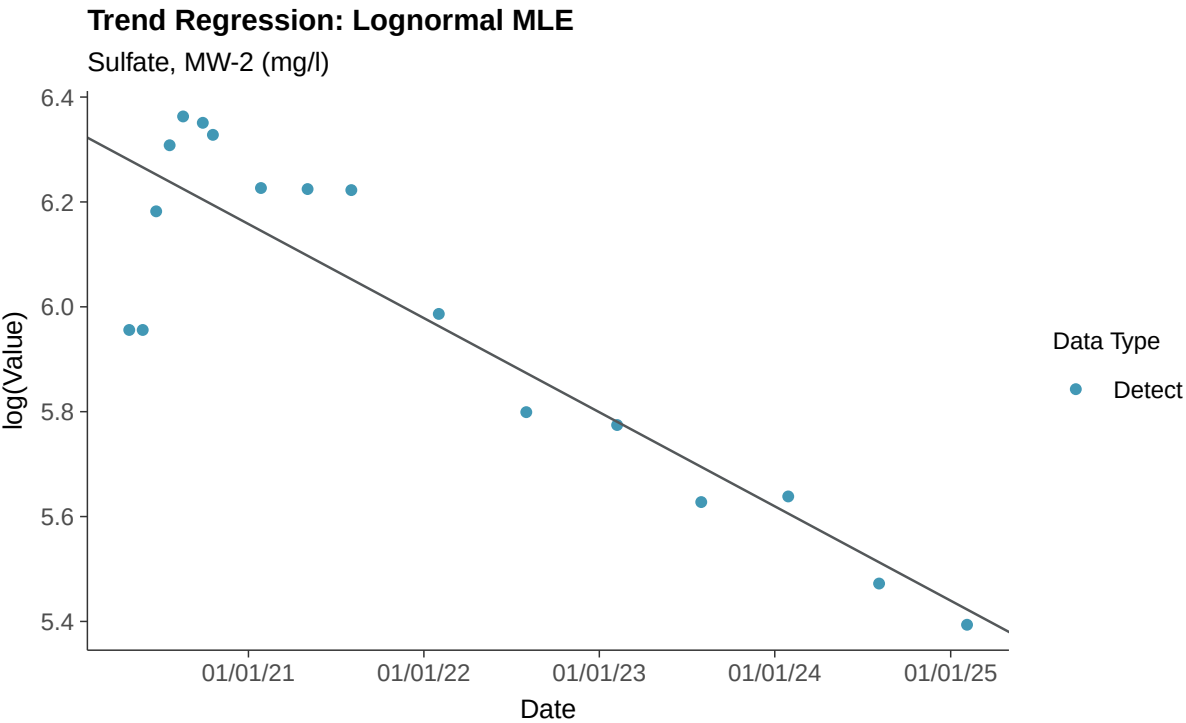
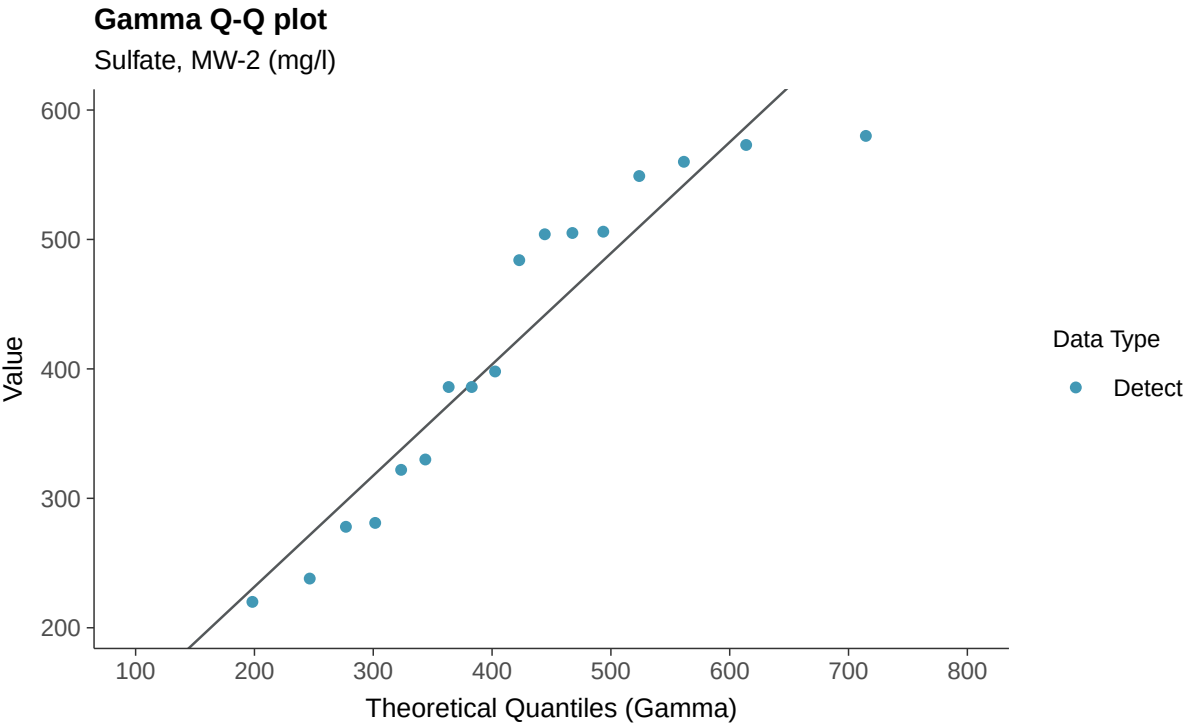
Appendix III: Sulfate, MW-2

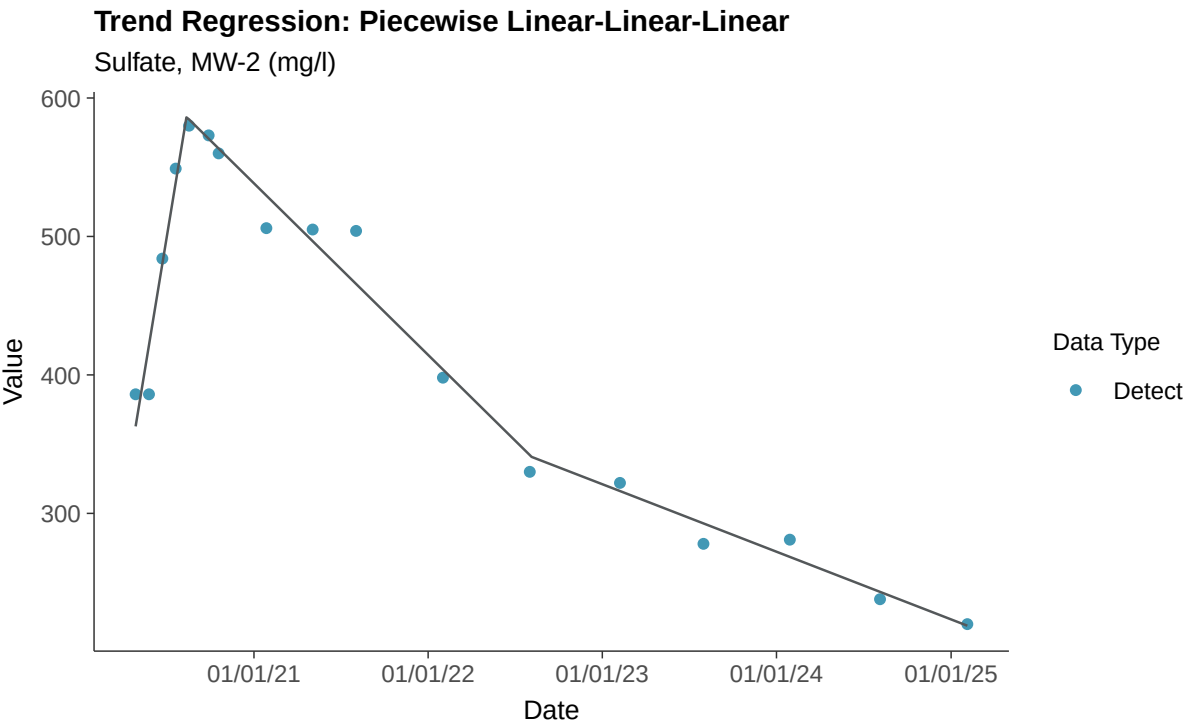
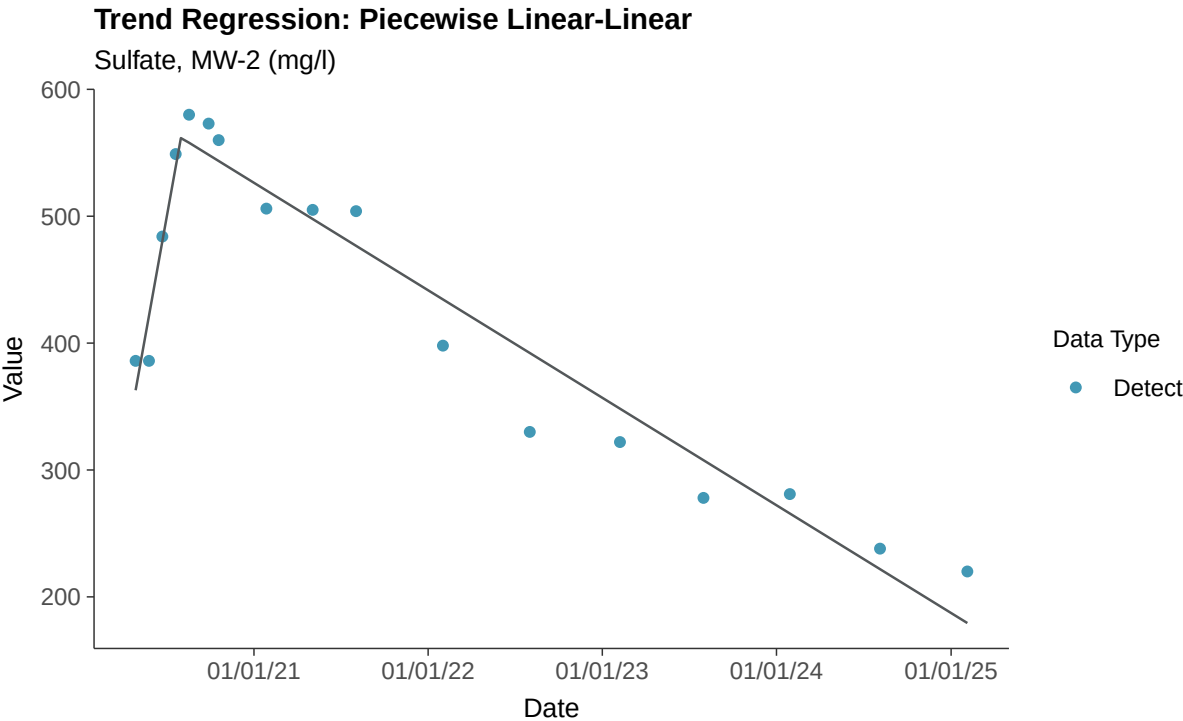
ID: 11_2_124







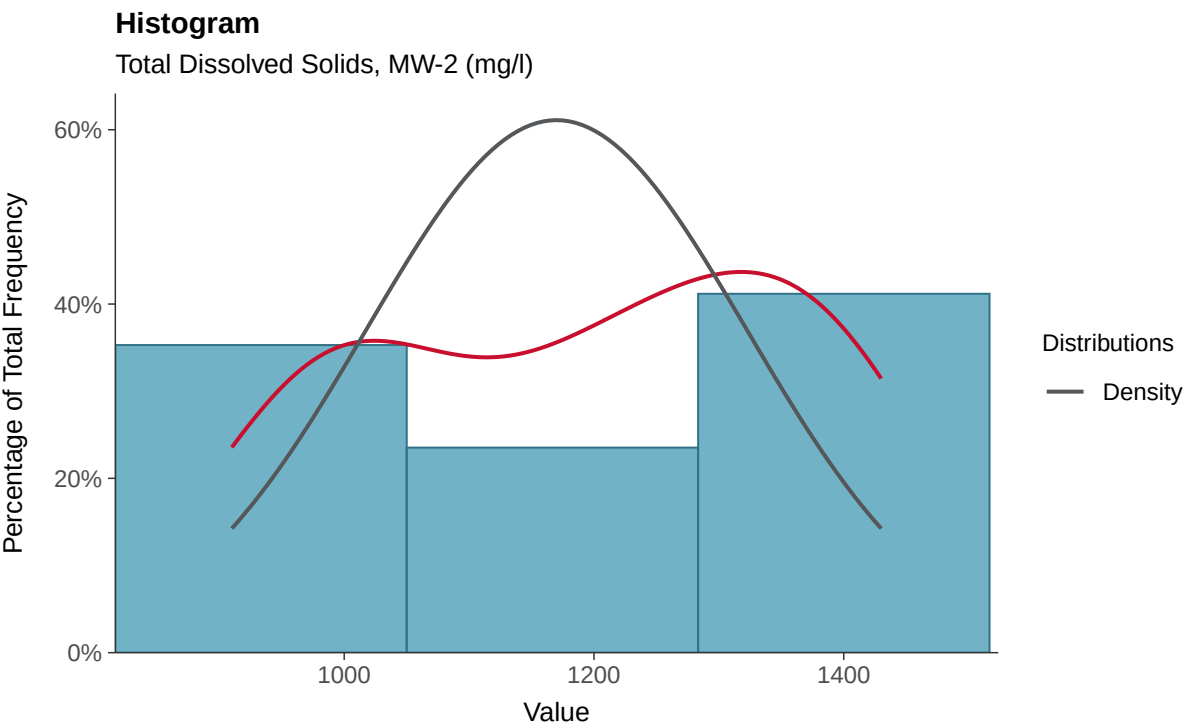
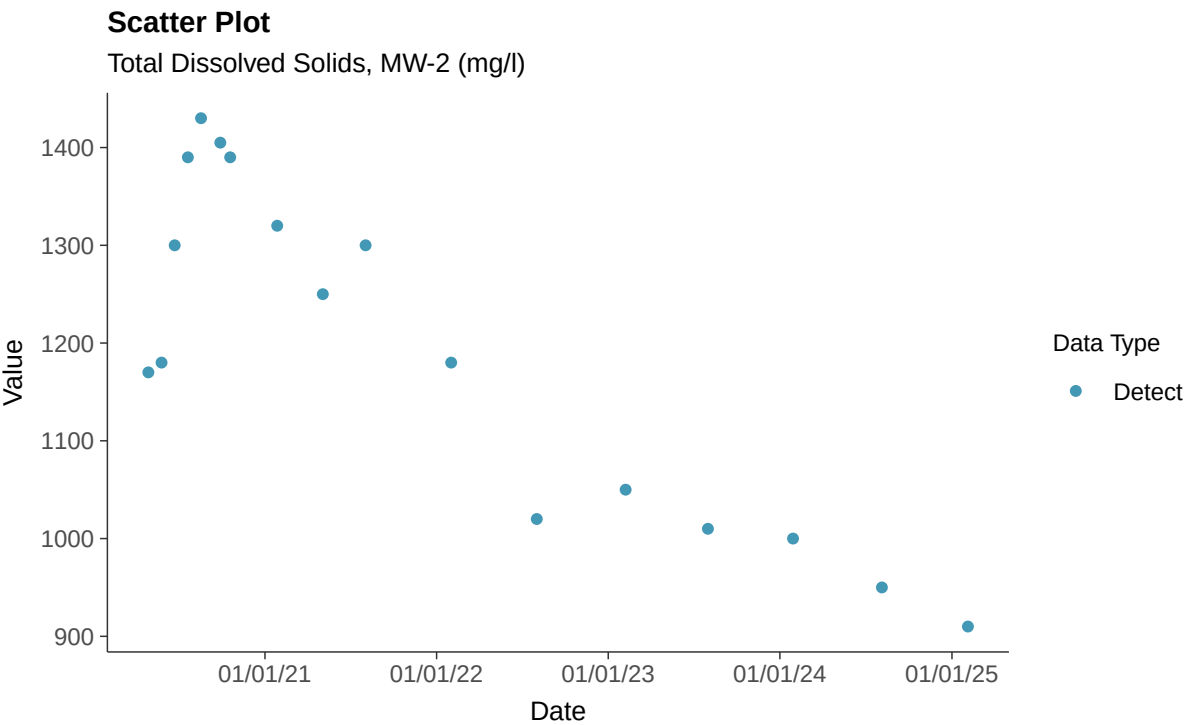






Appendix III: Total Dissolved Solids, MW-2

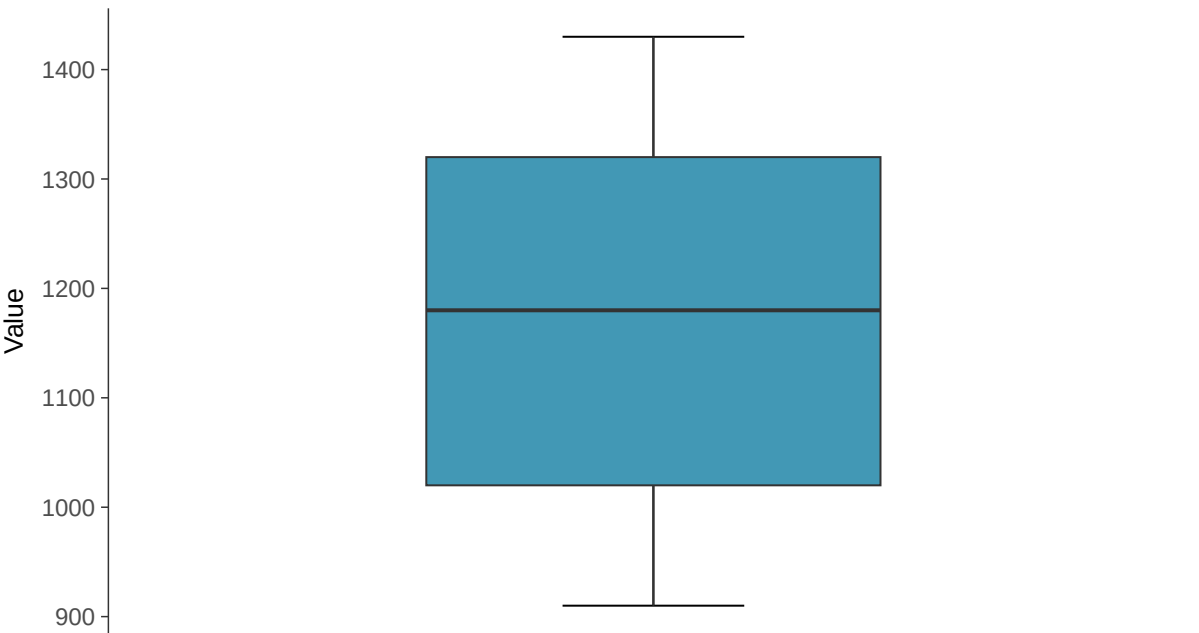
ID: 11_2_126





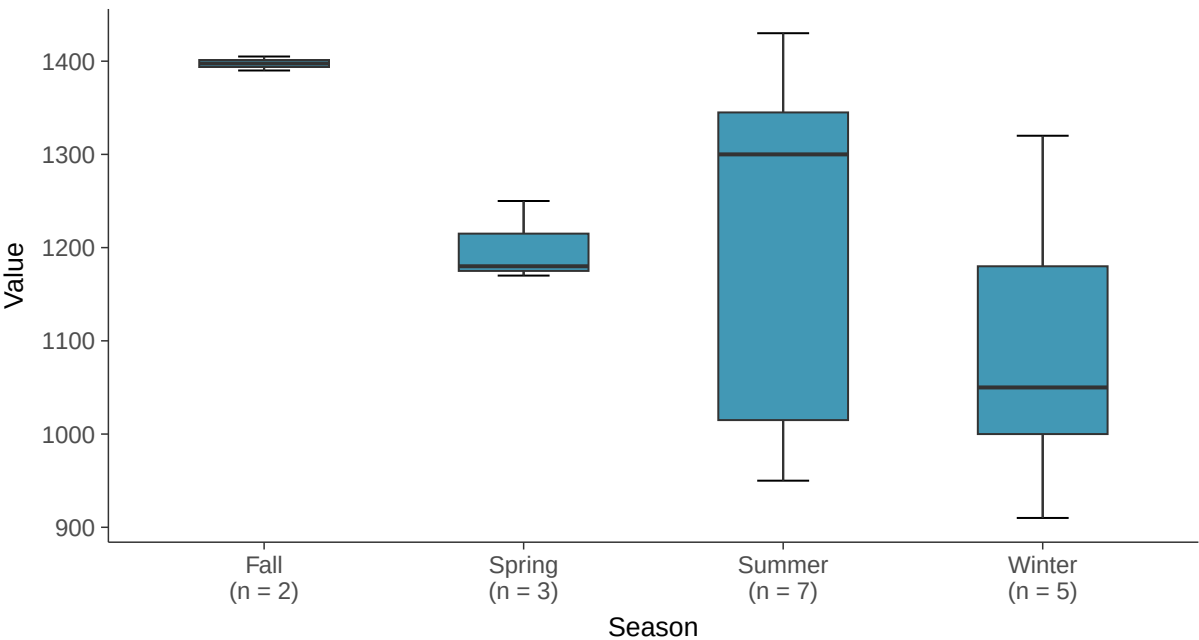
Boxplot

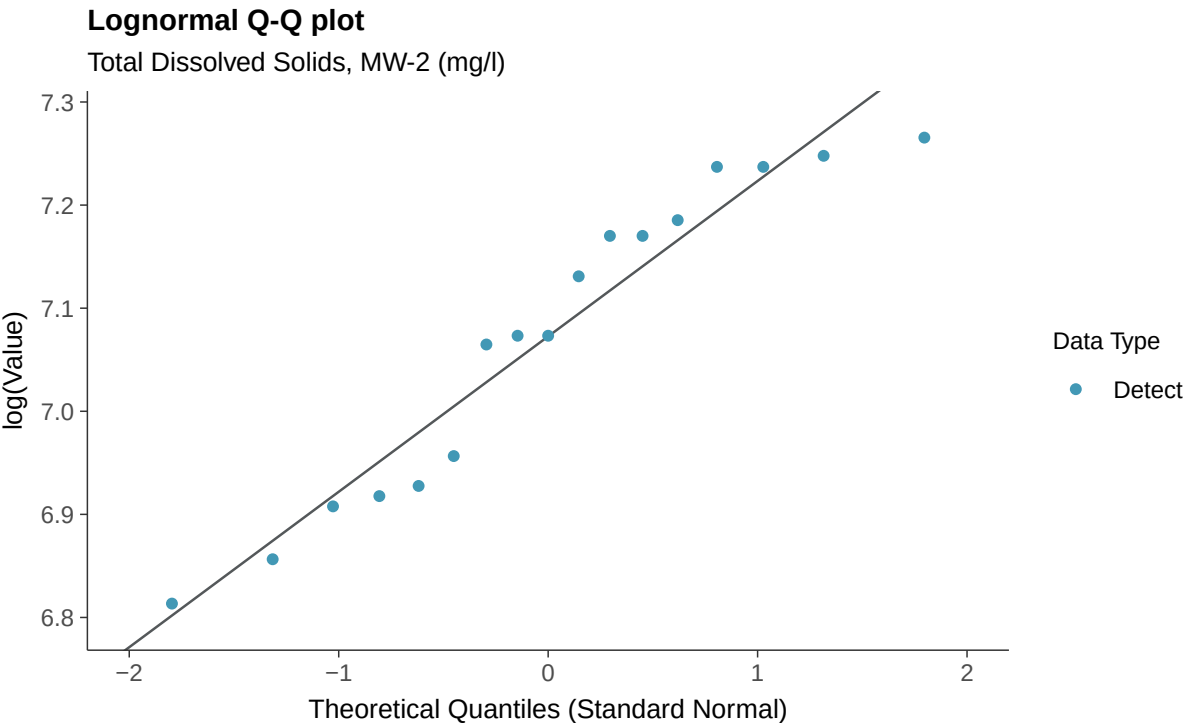
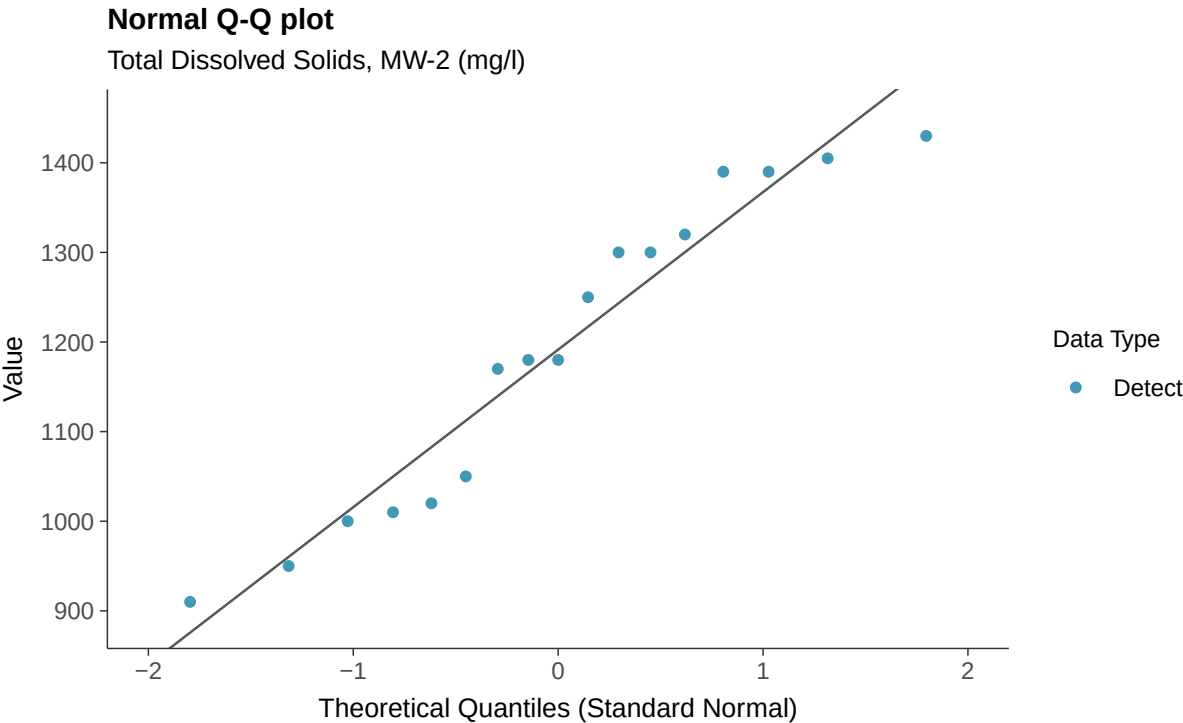
Total Dissolved Solids, MW-2 (mg/l)

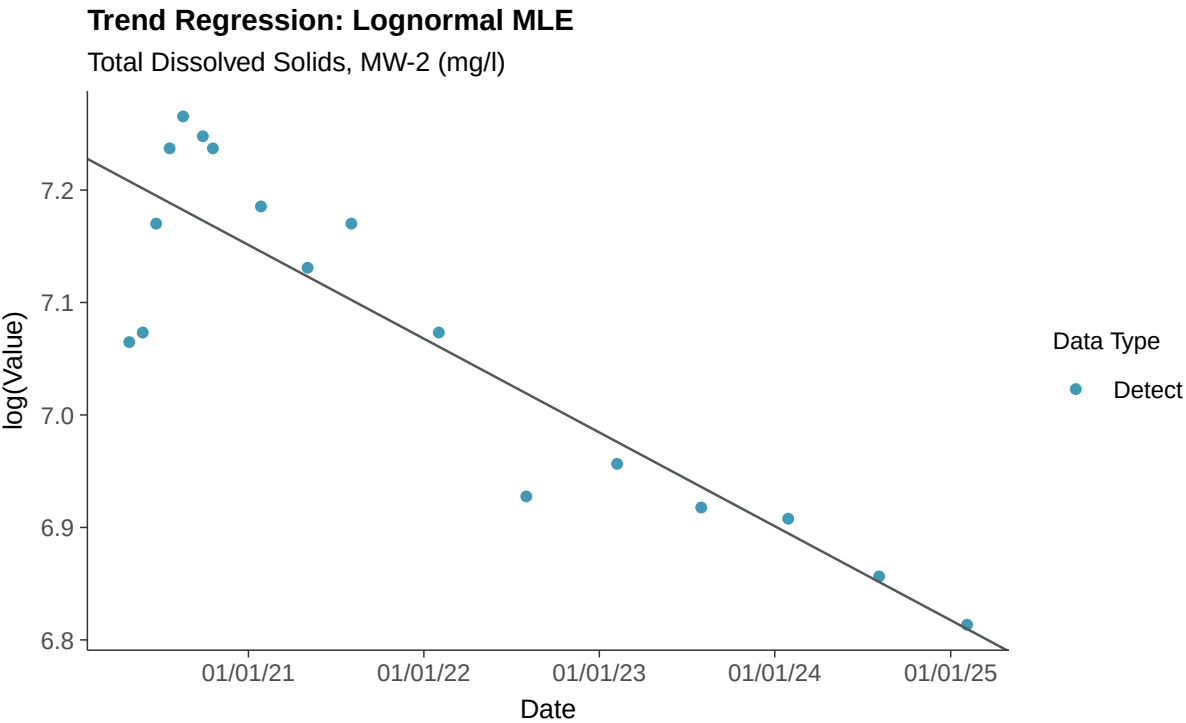
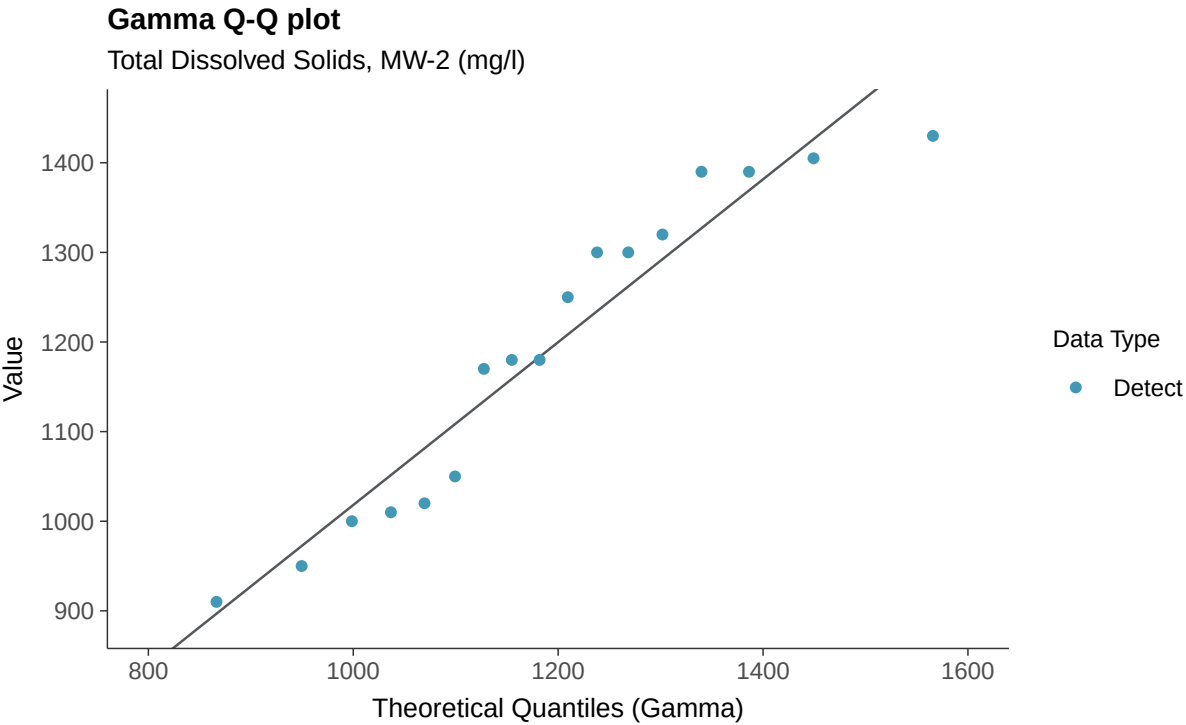


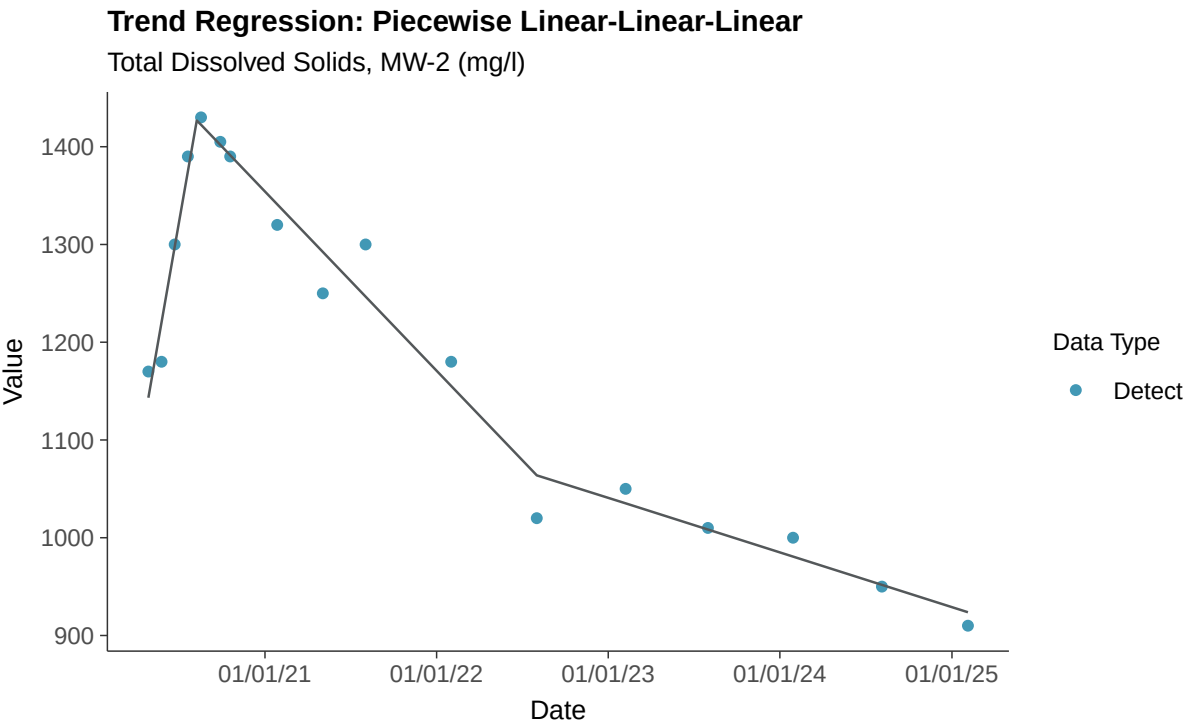
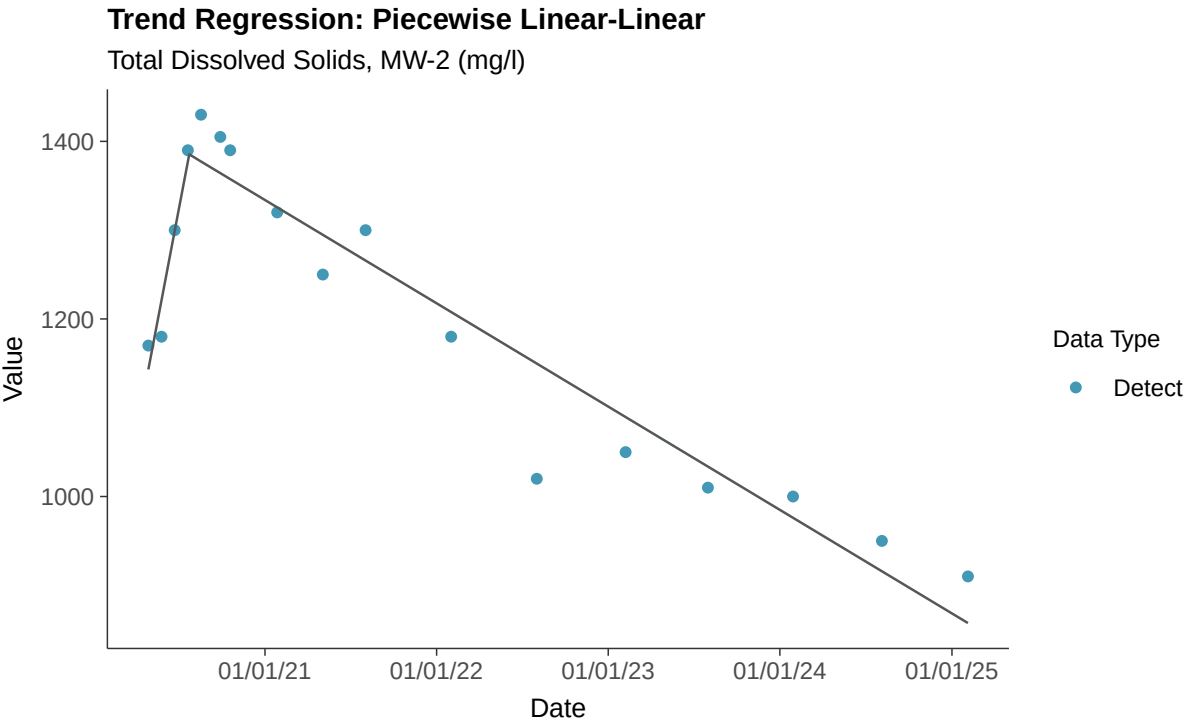
Boxplot by Season

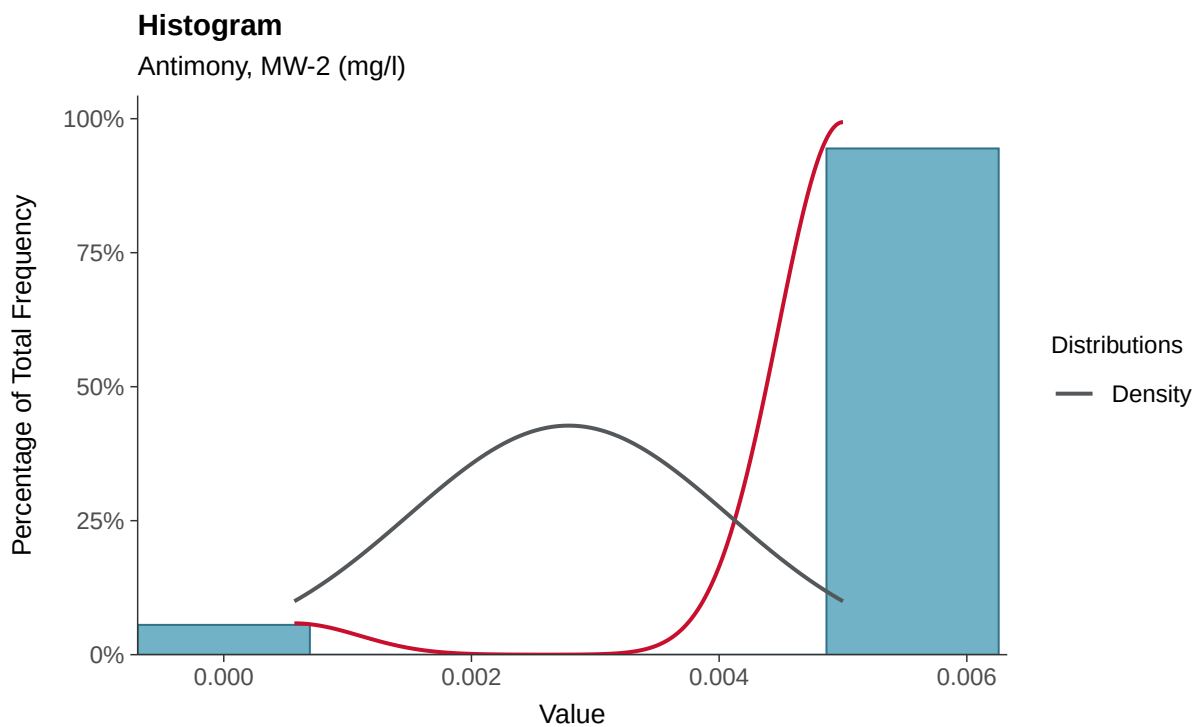
Total Dissolved Solids, MW-2 (mg/l)

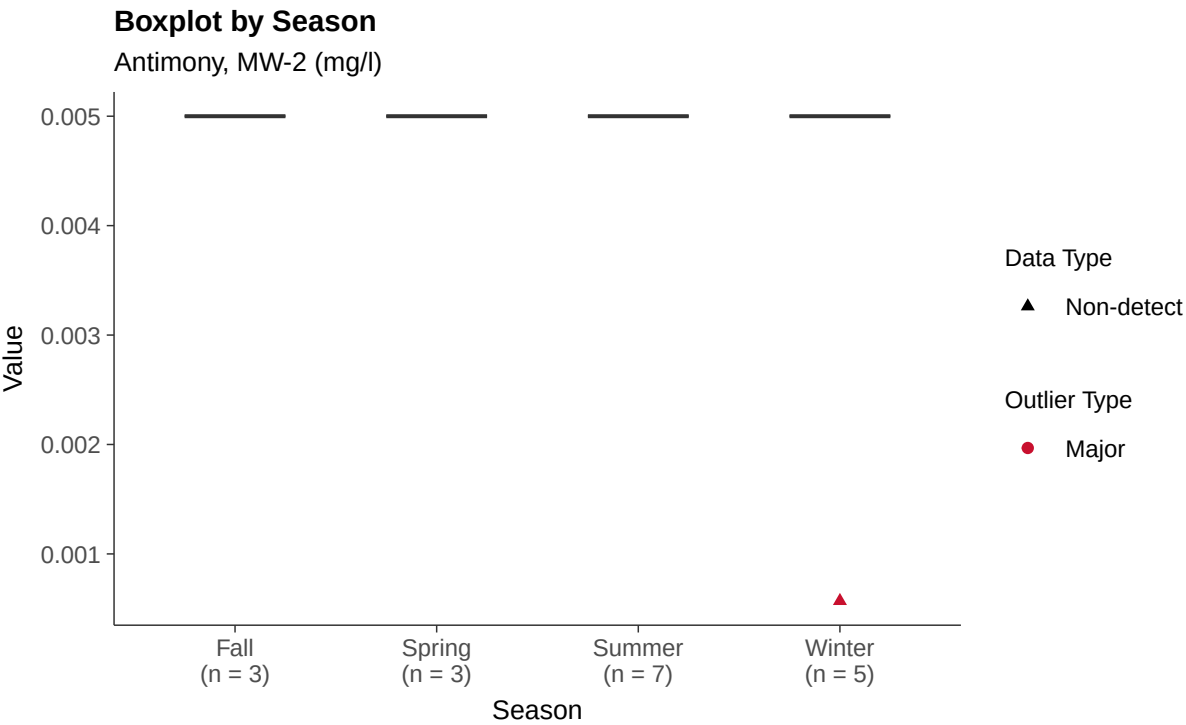
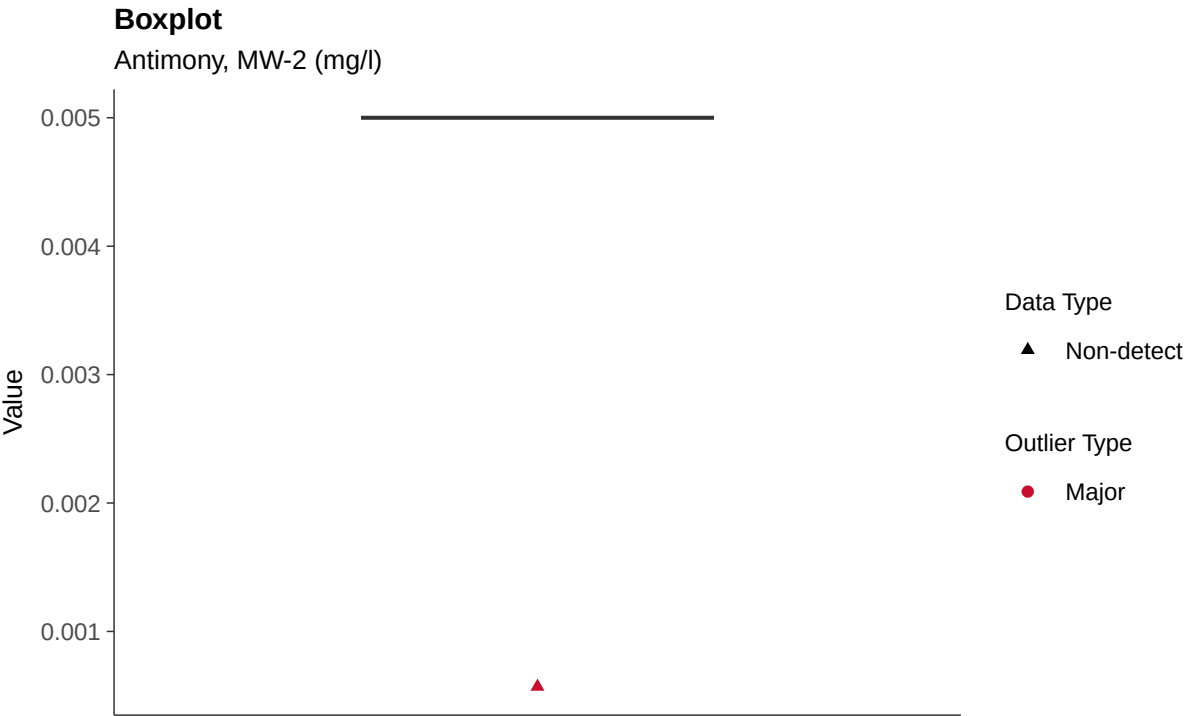








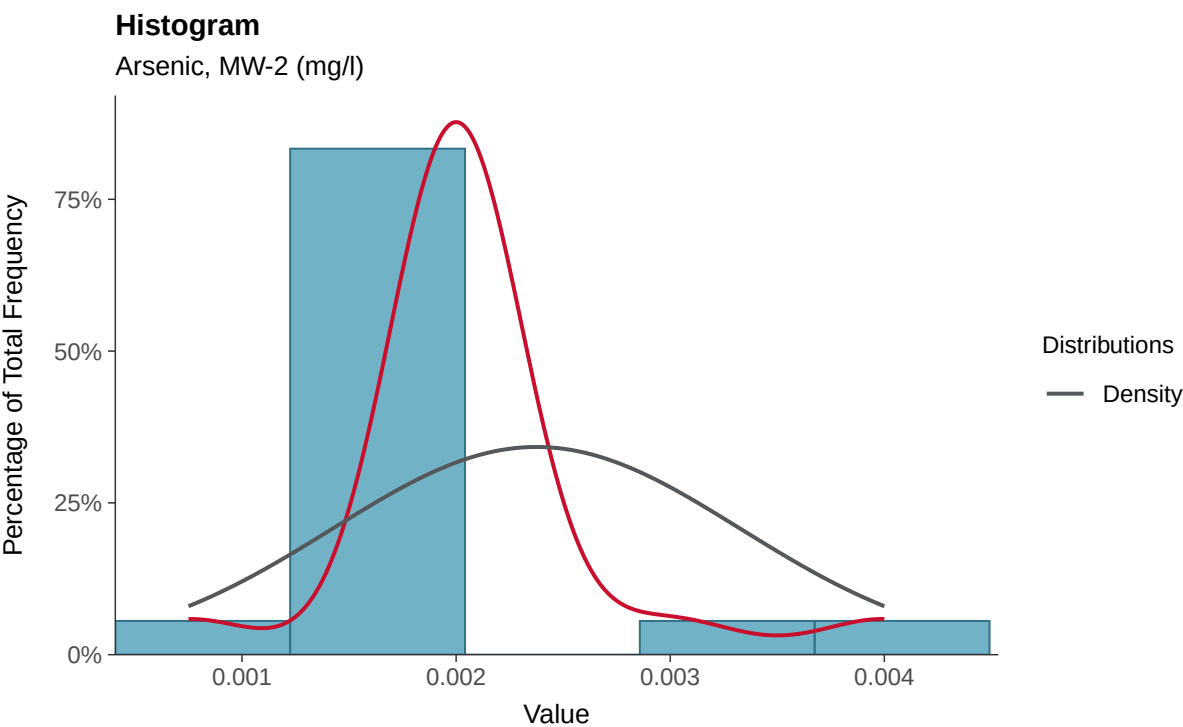
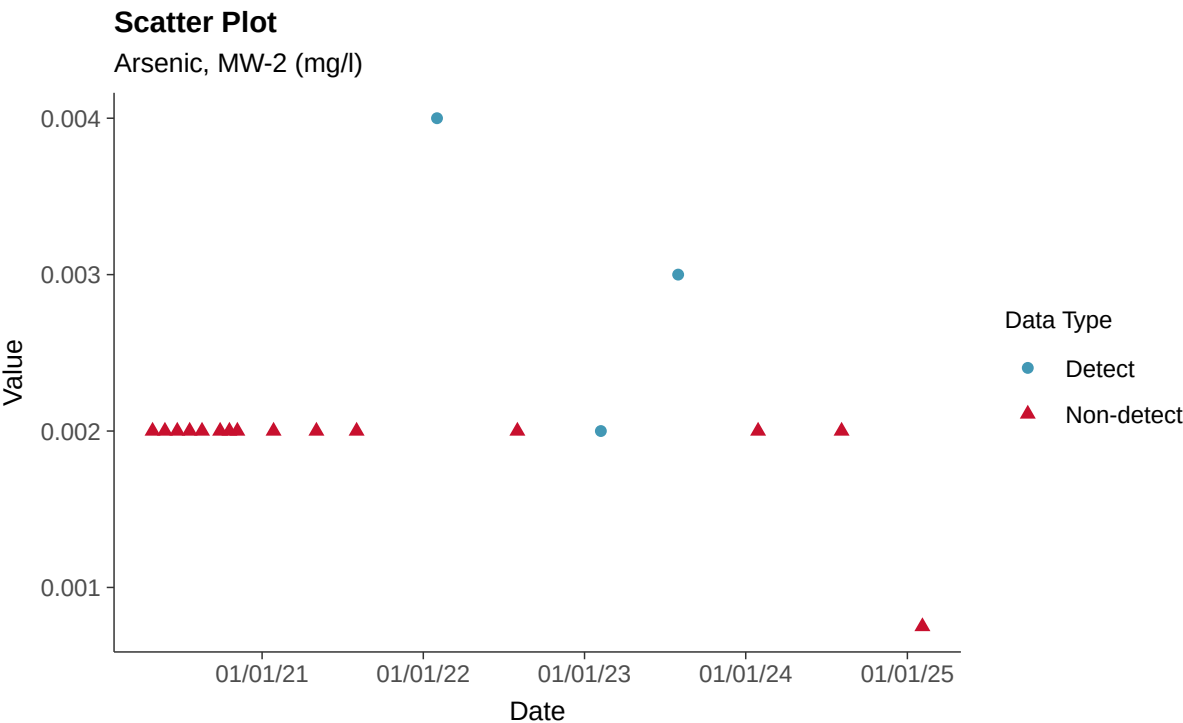


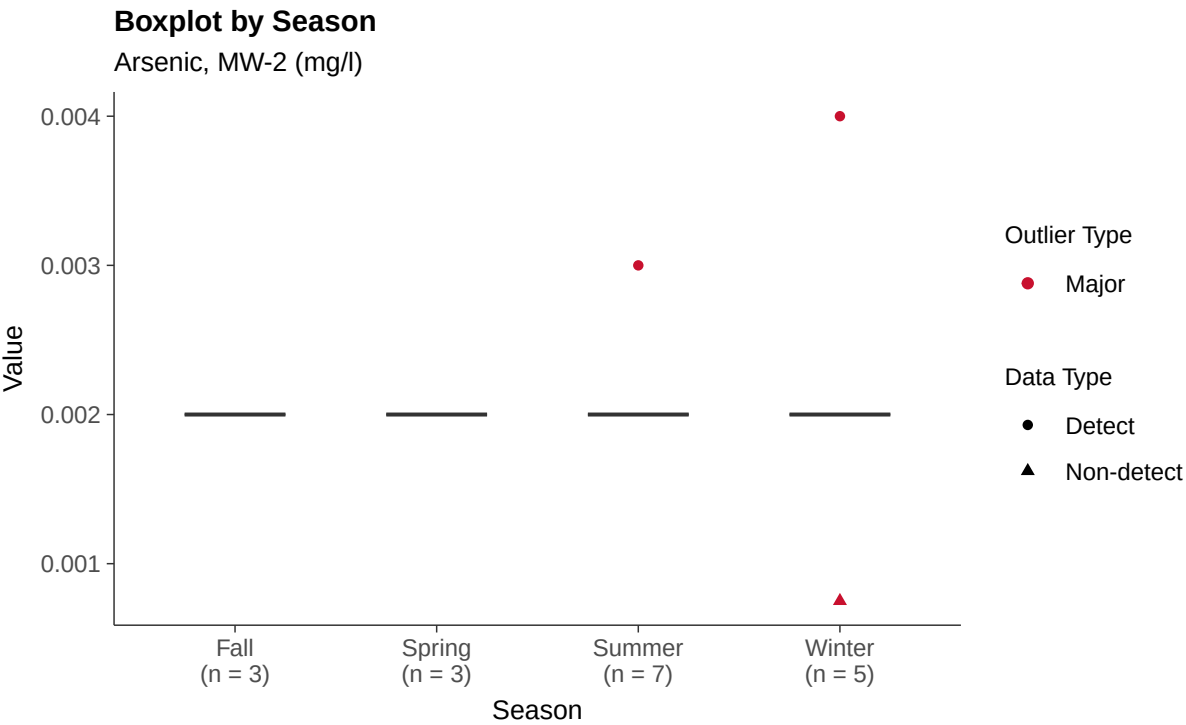
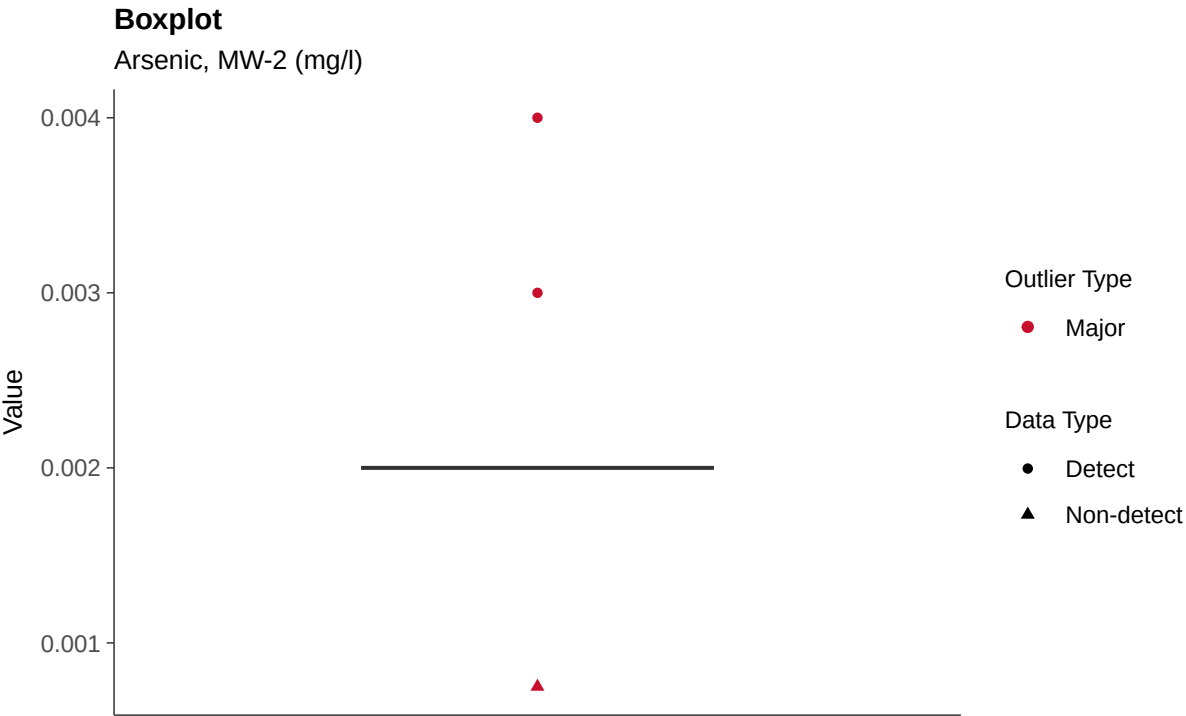


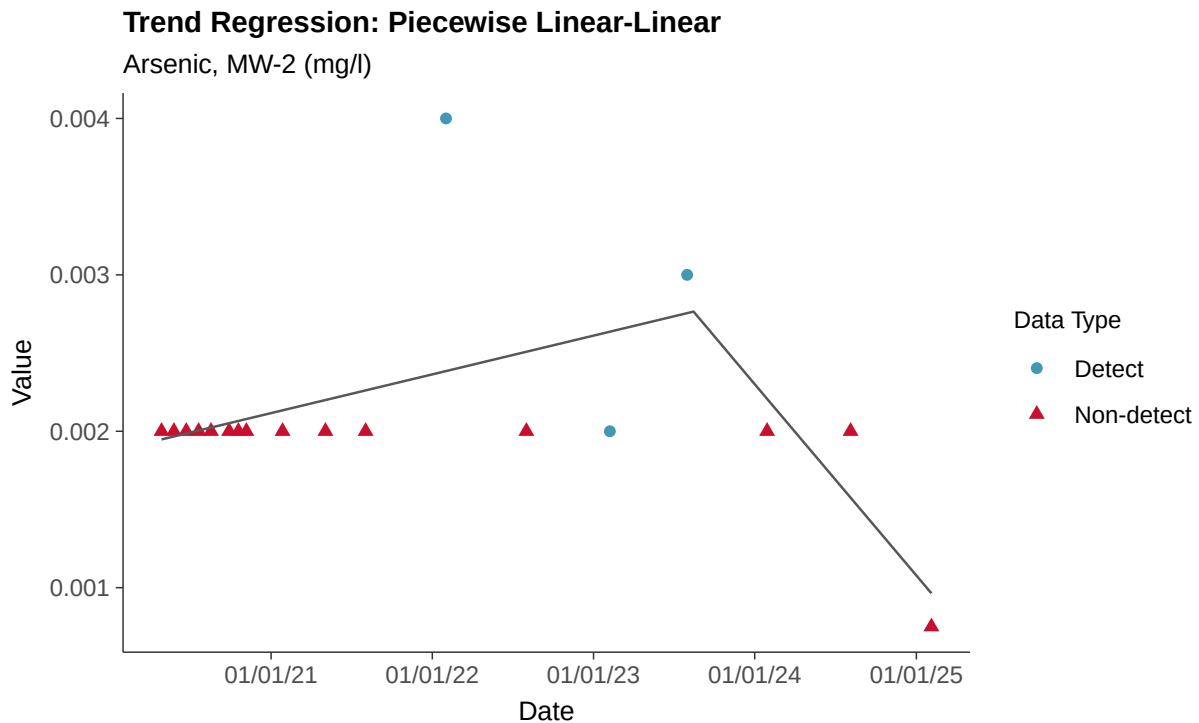
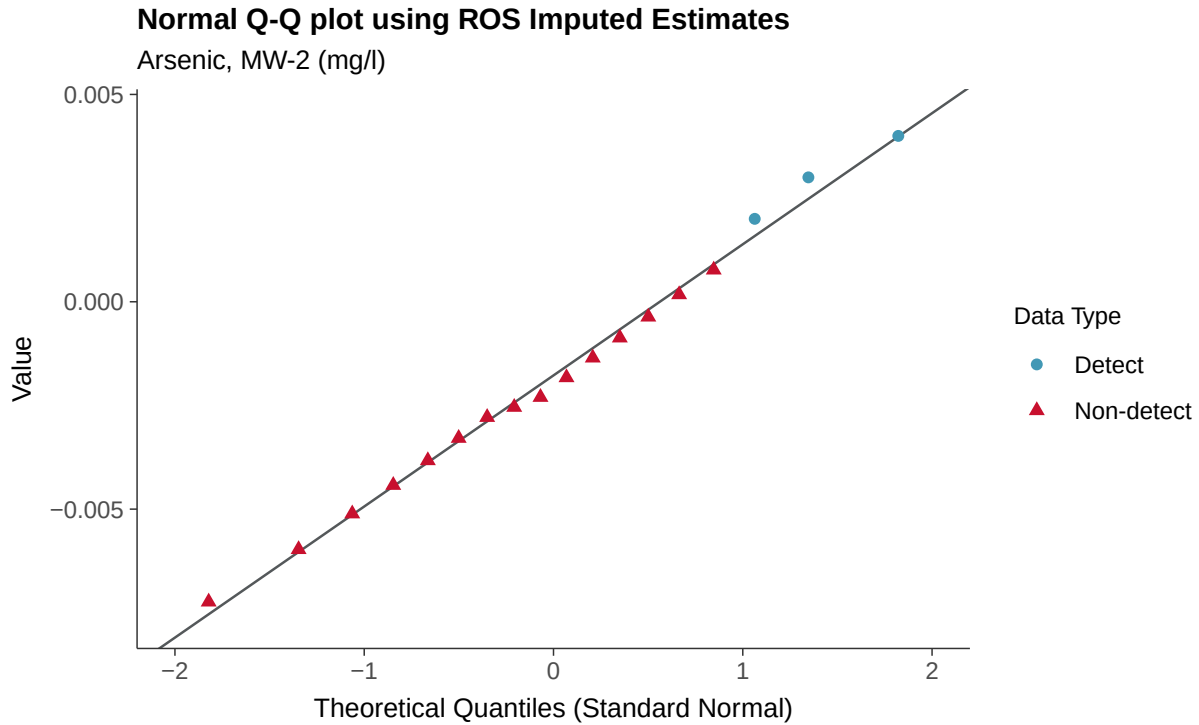


Appendix IV: Arsenic, MW-2

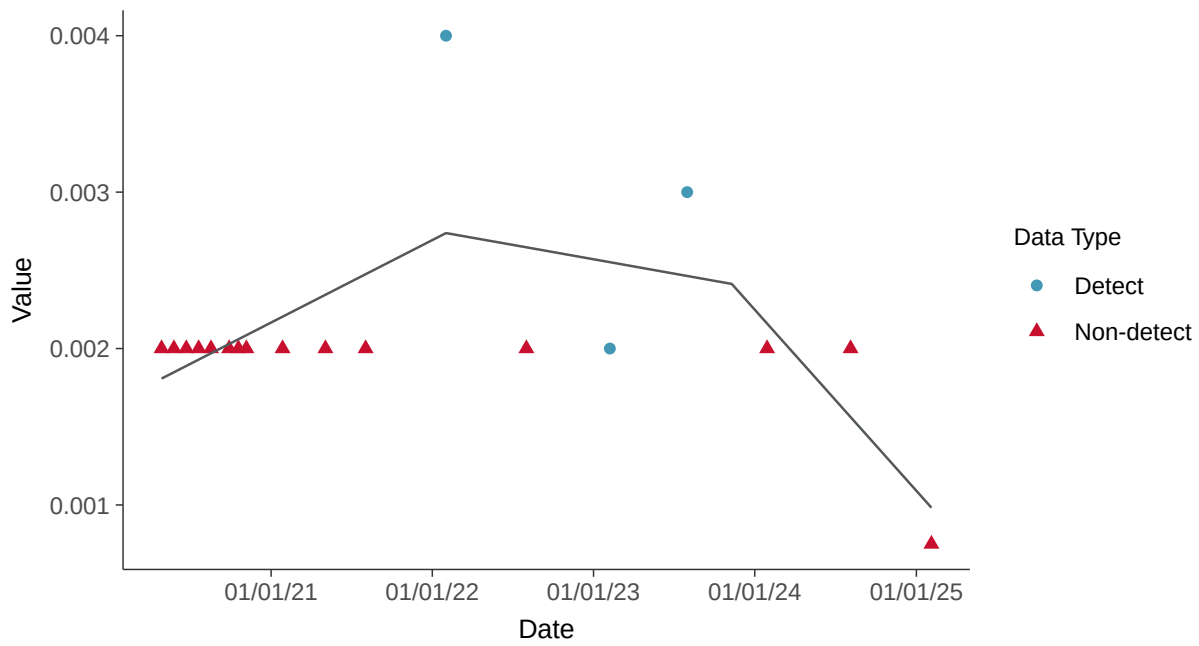
ID: 11_3_102







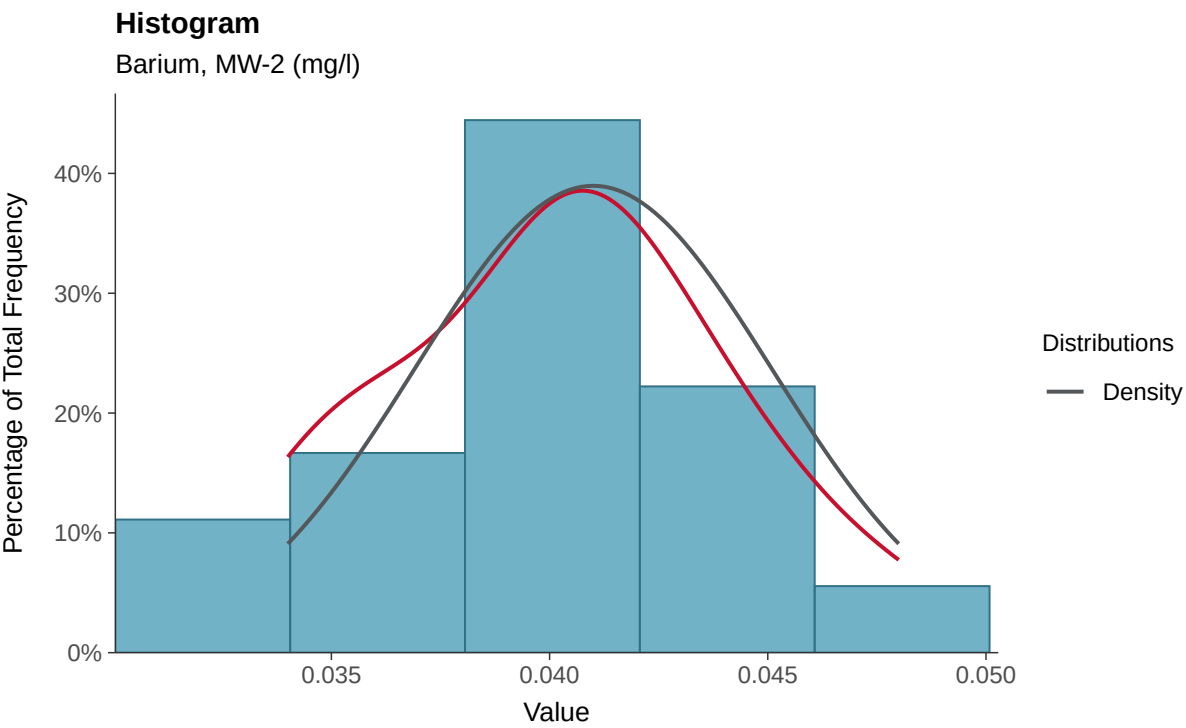
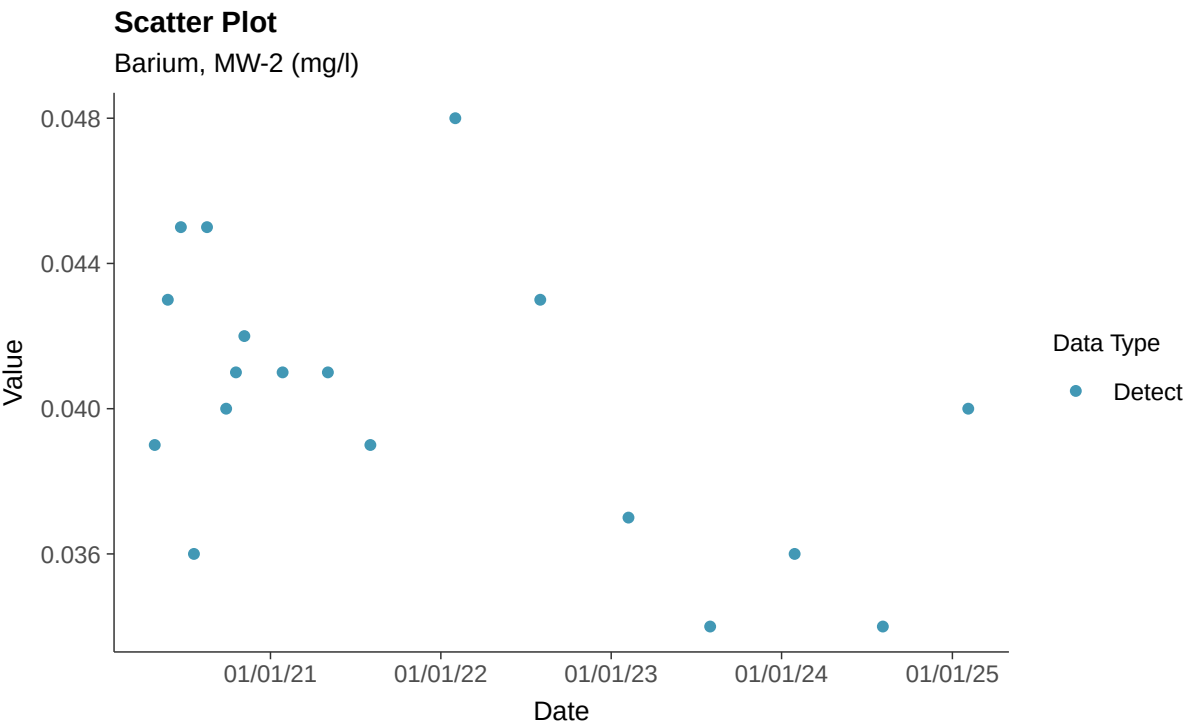
Arsenic, MW-2 (mg/l)

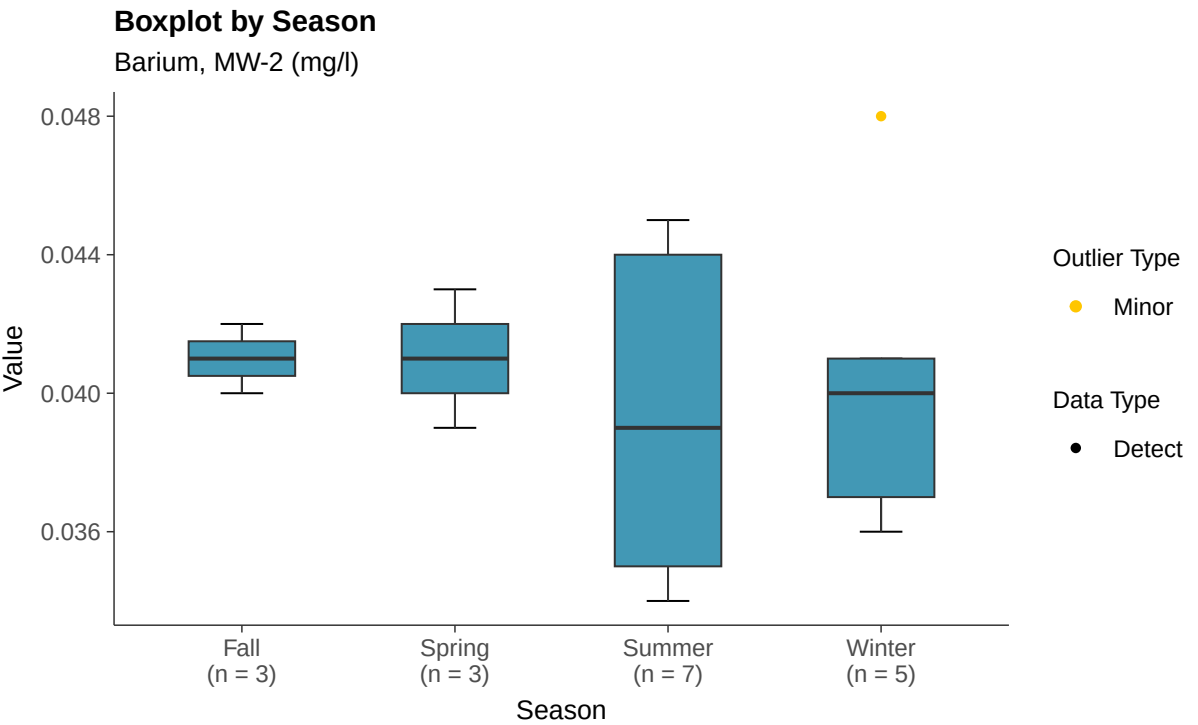
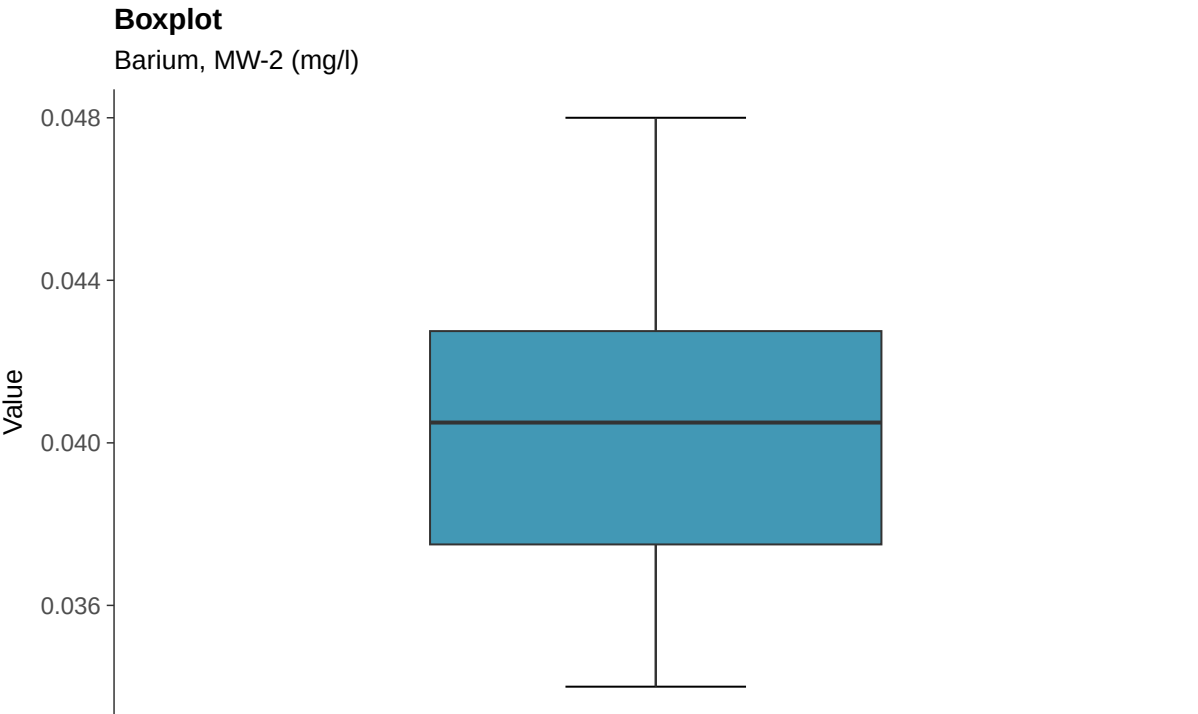


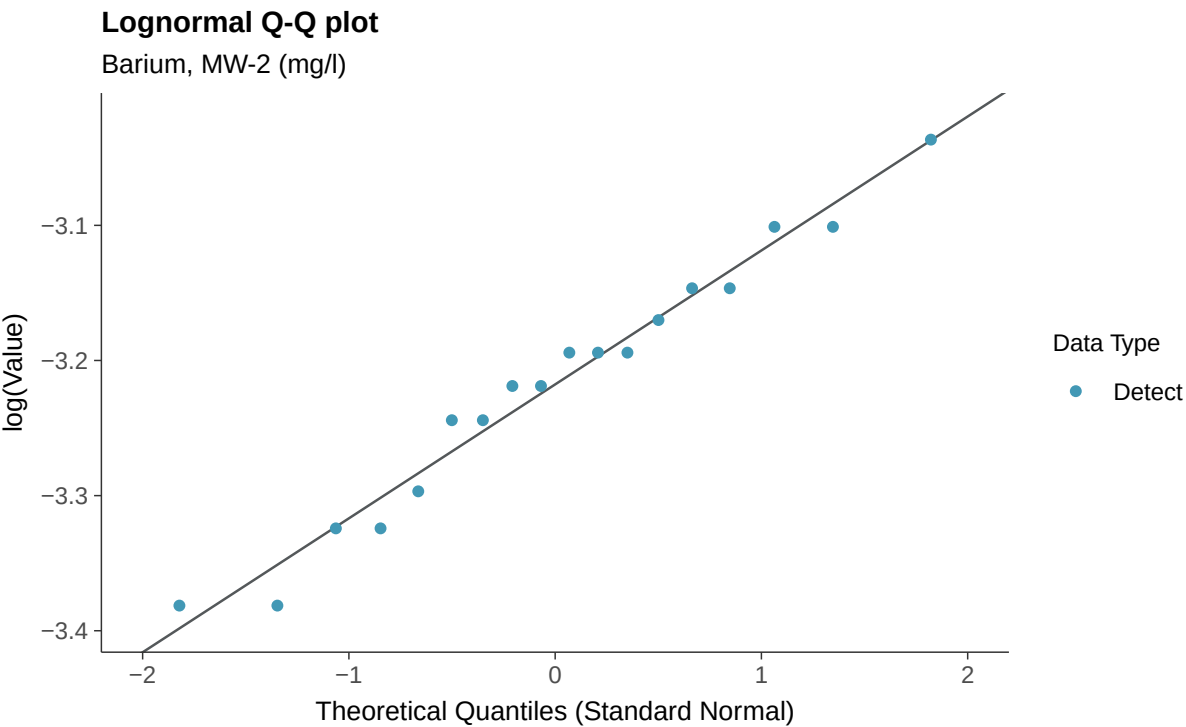
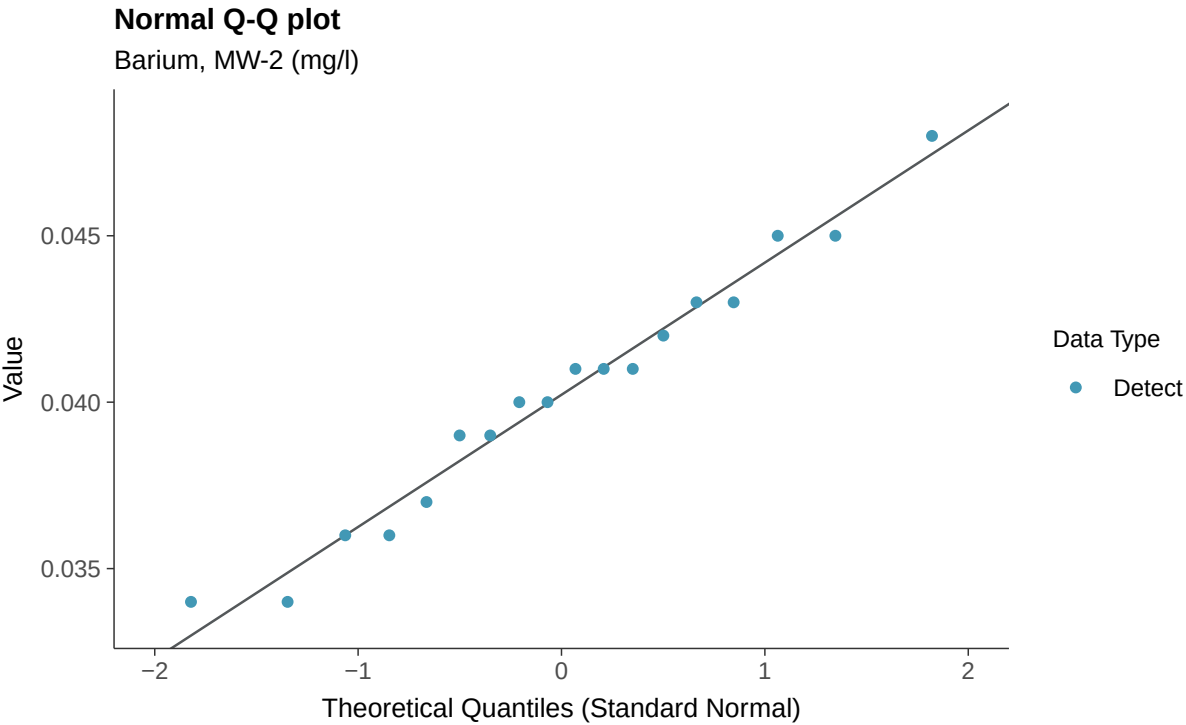


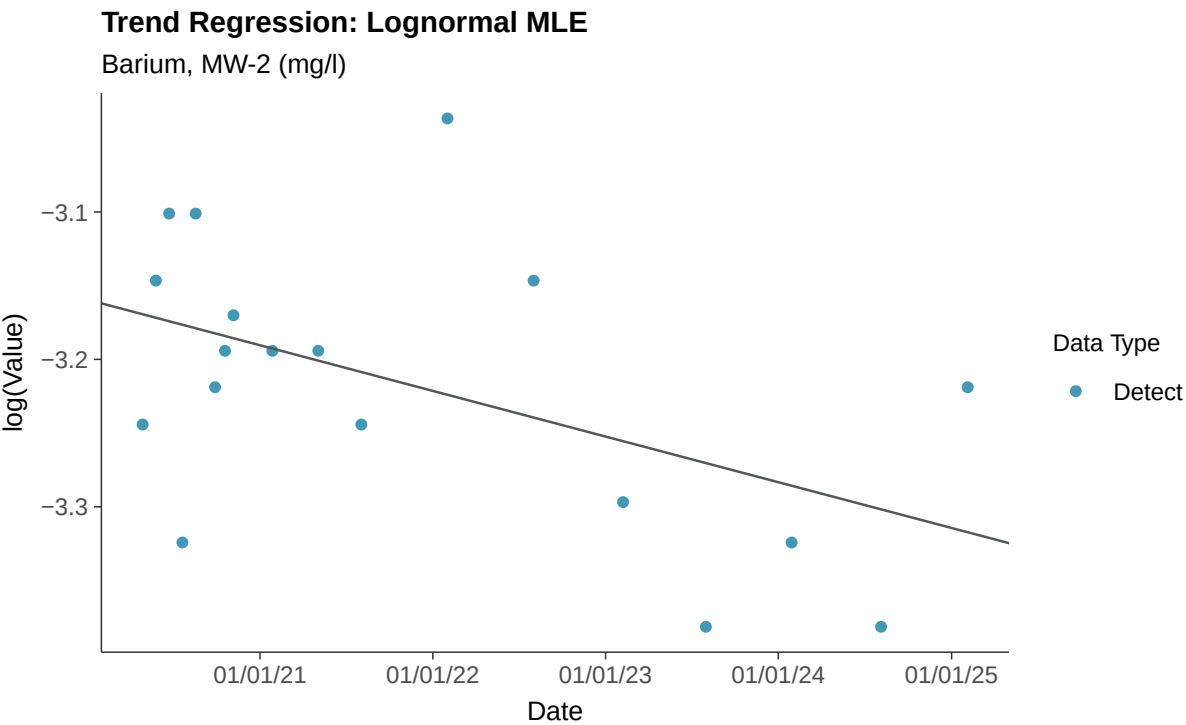
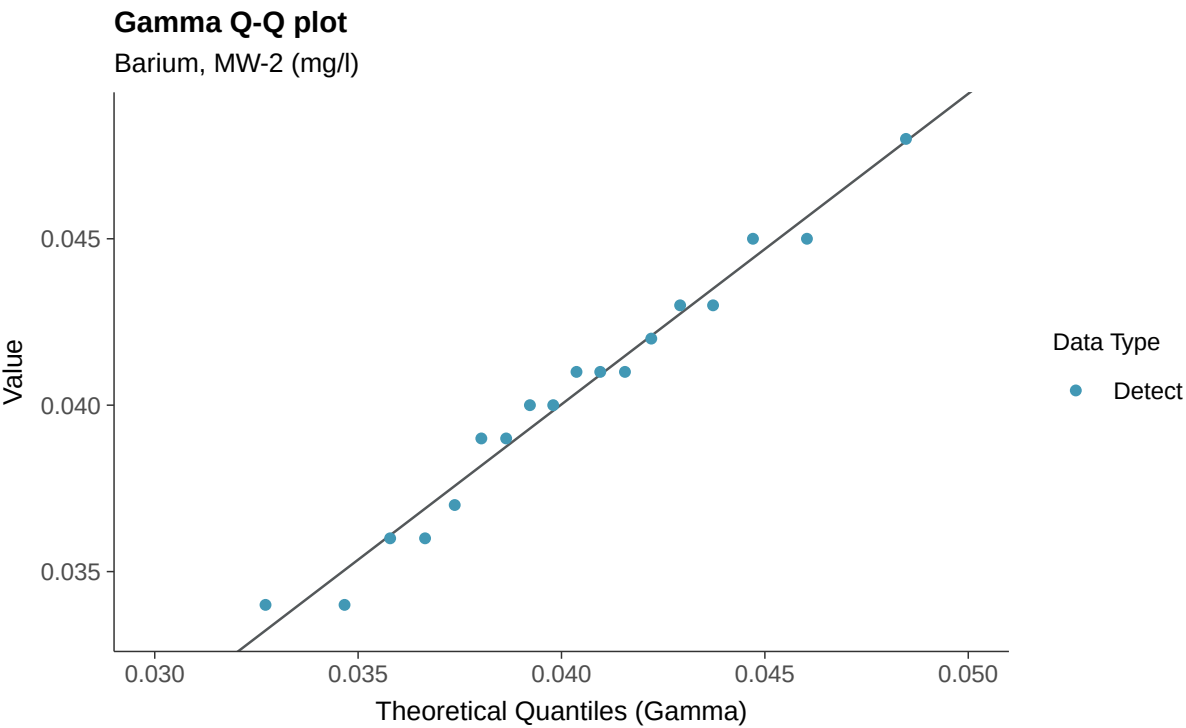
Appendix IV: Barium, MW-2

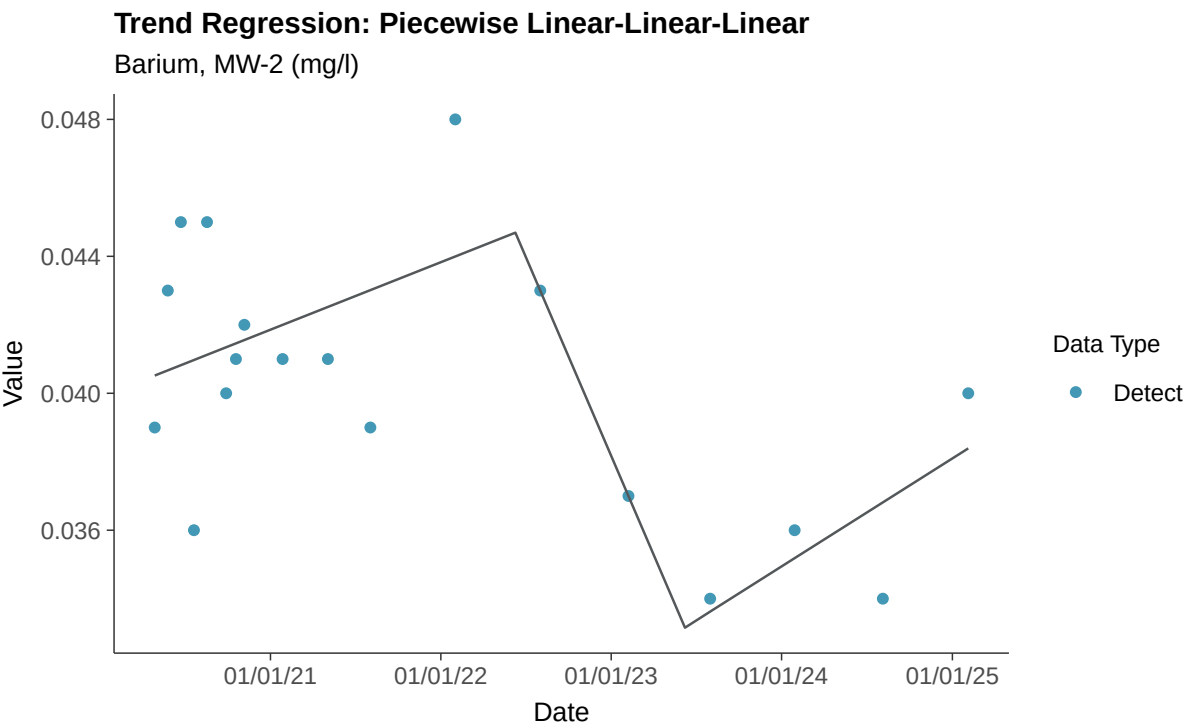
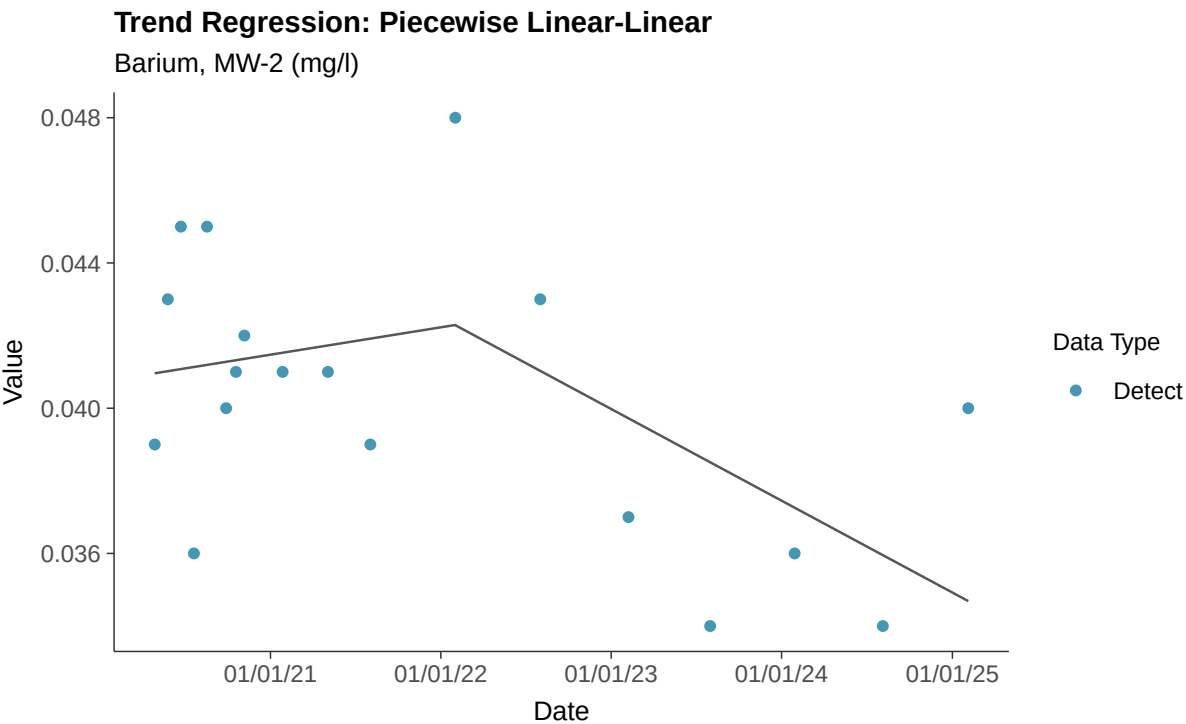
ID: 11_3_103

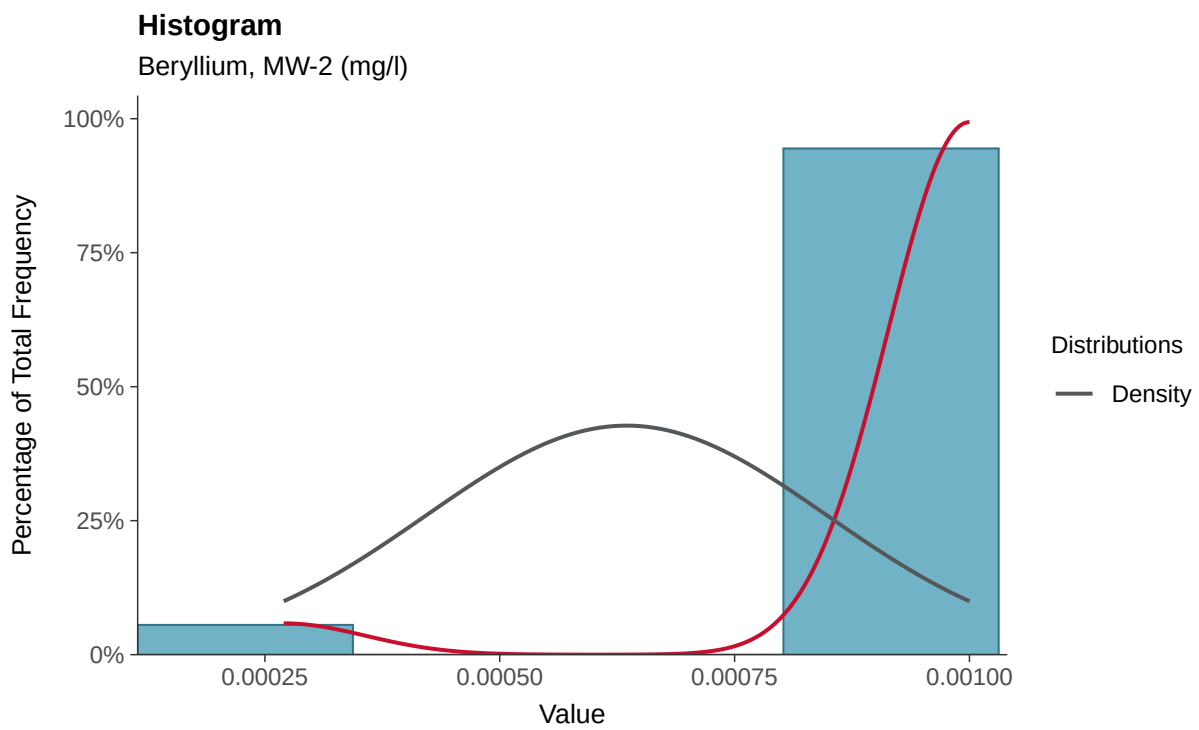


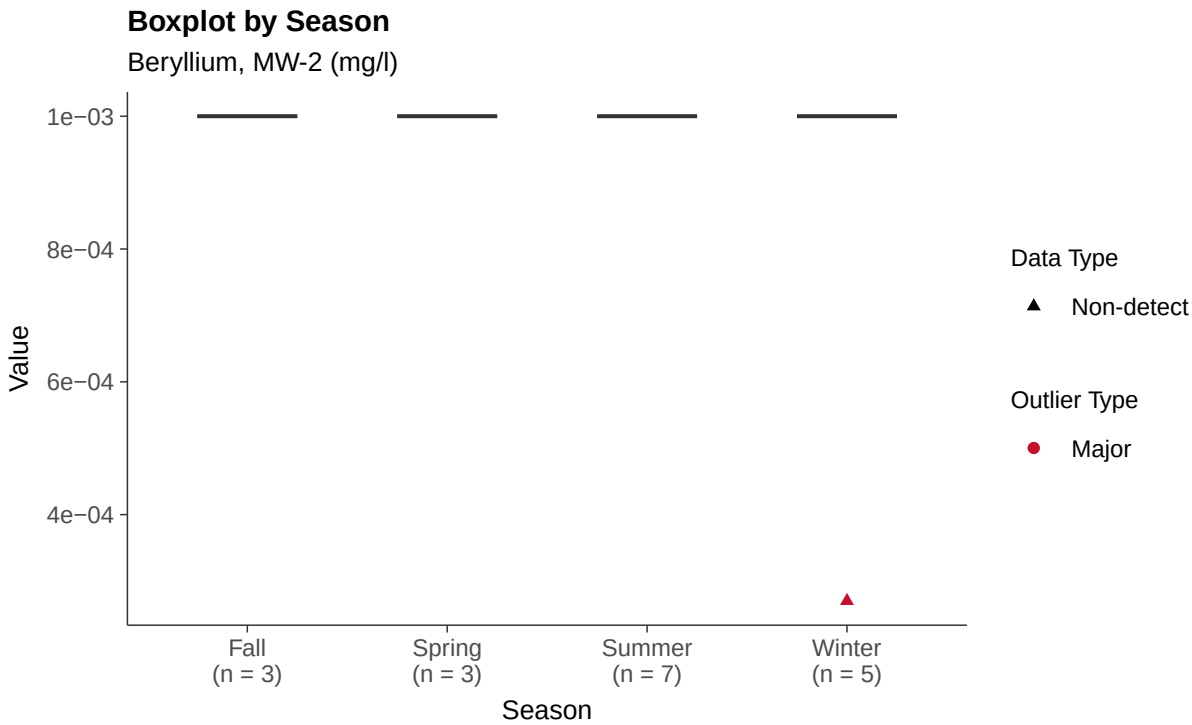
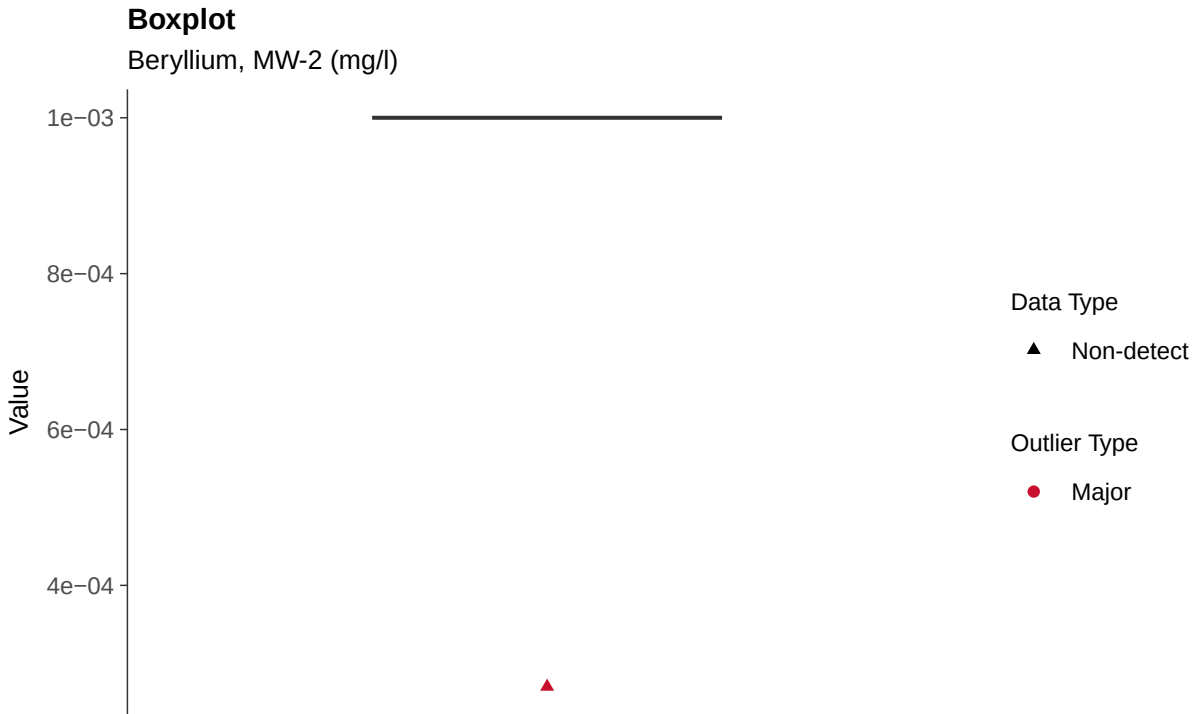


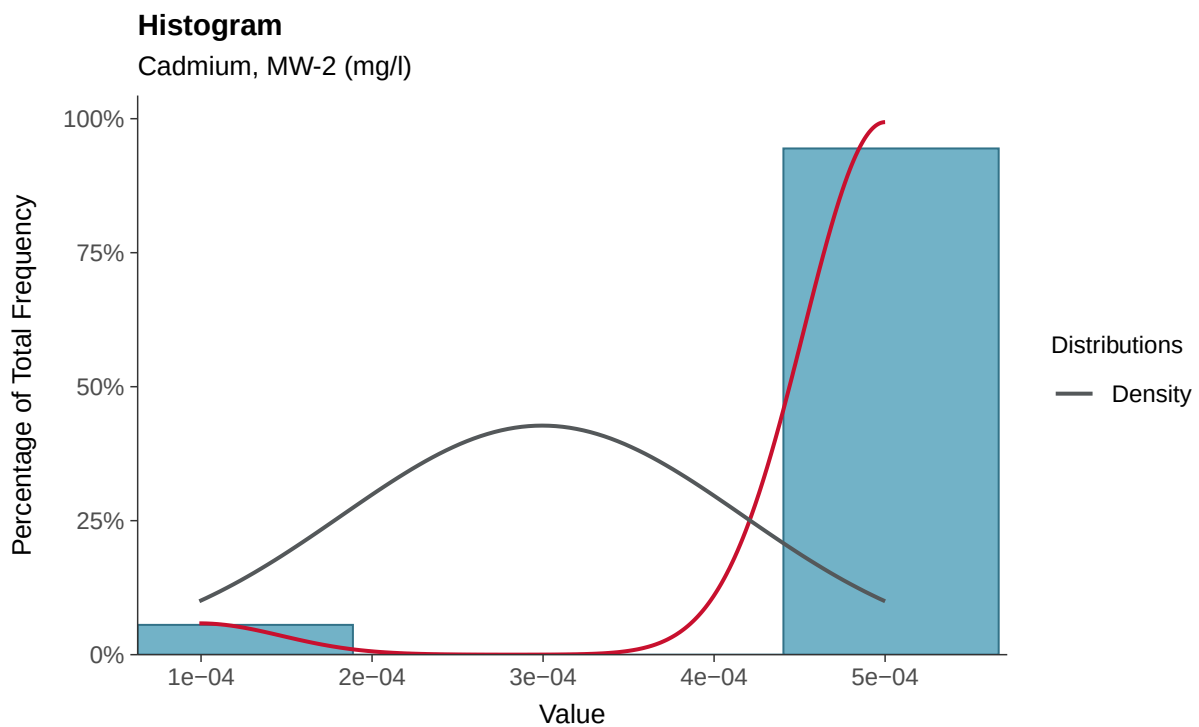


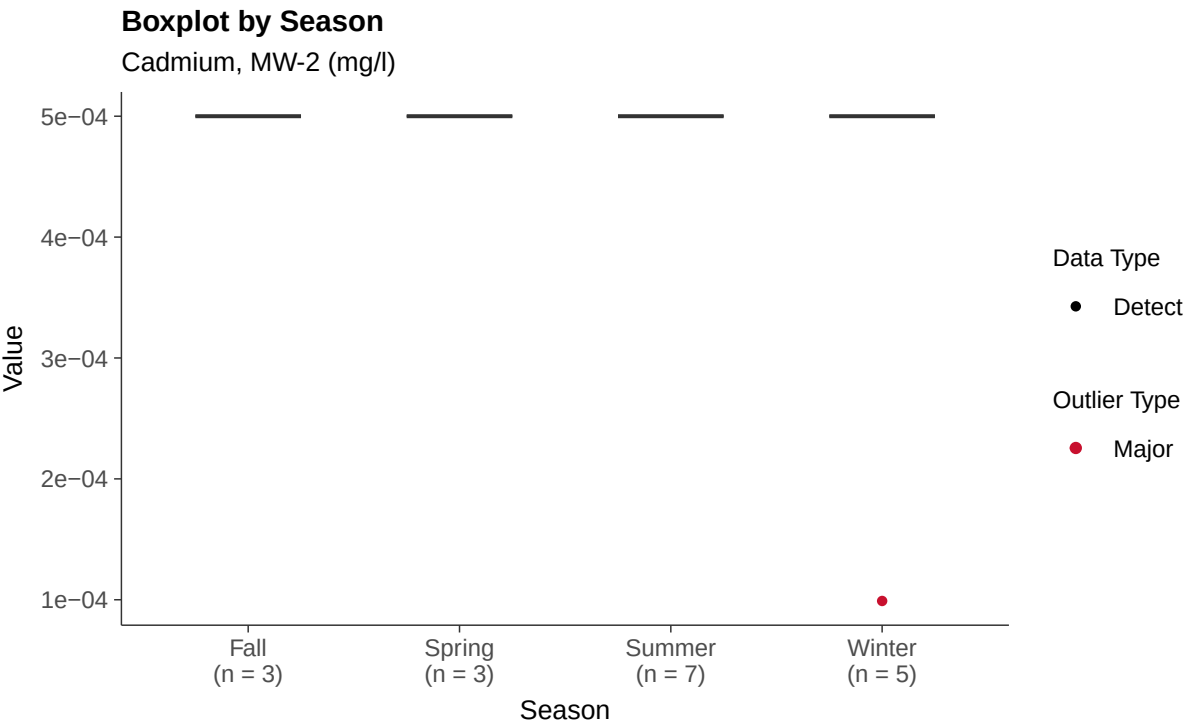
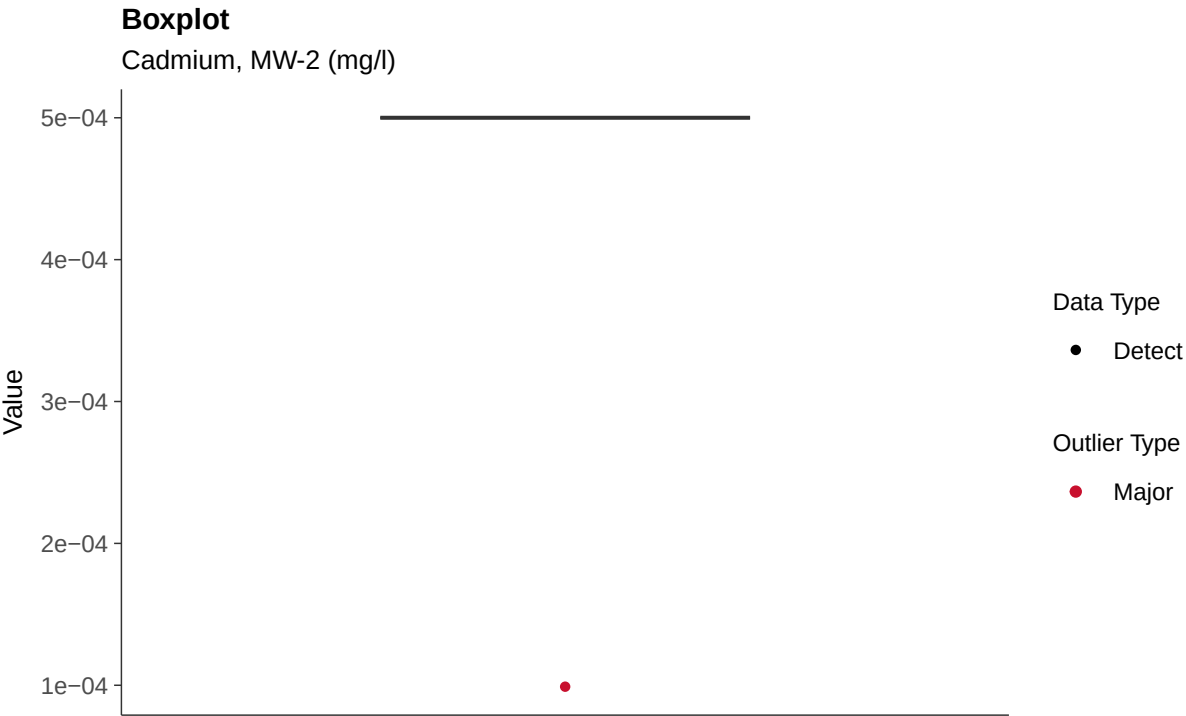








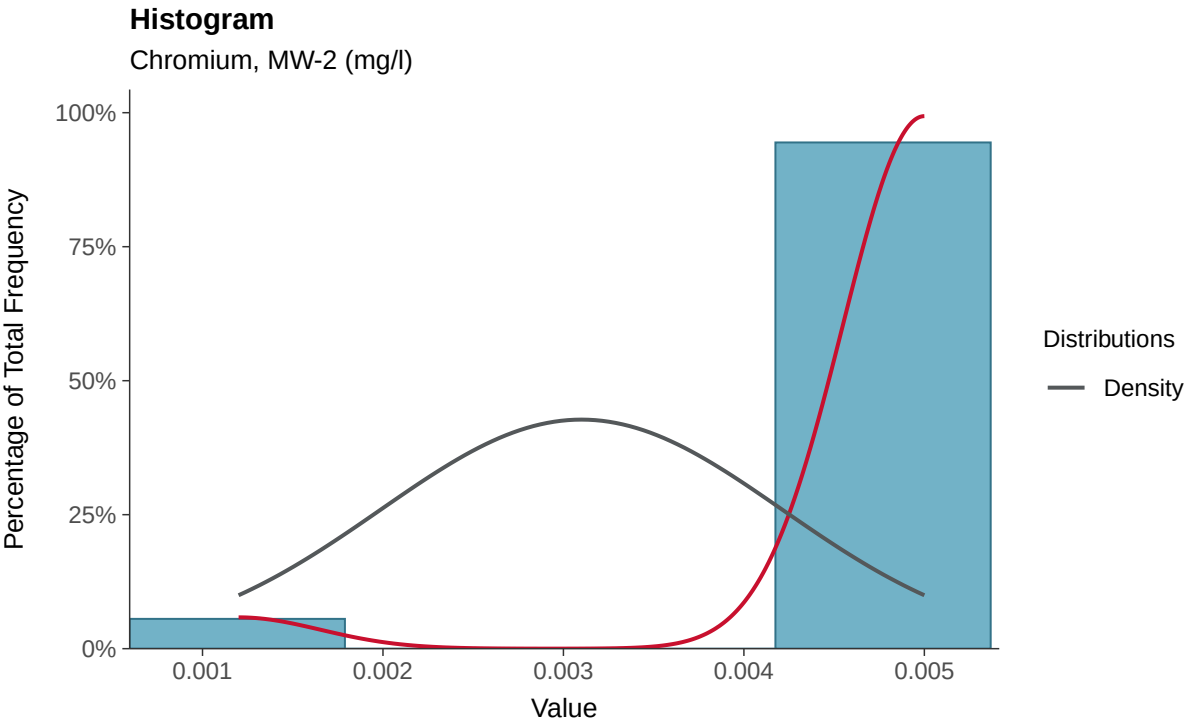
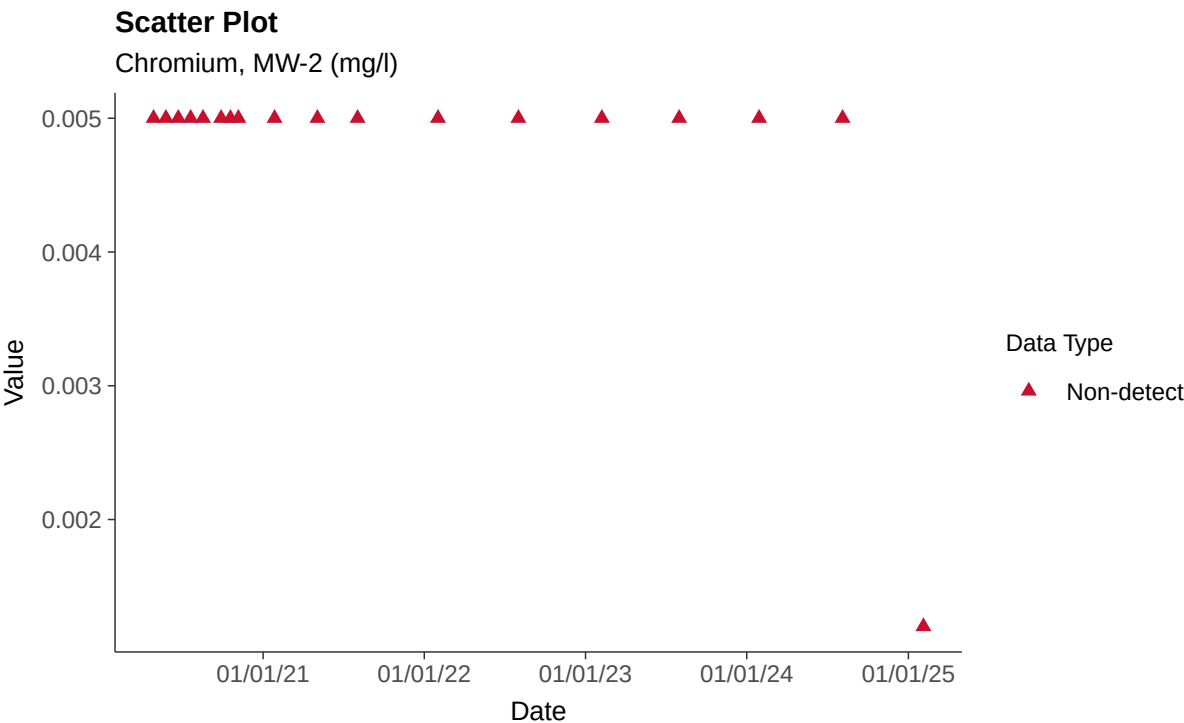


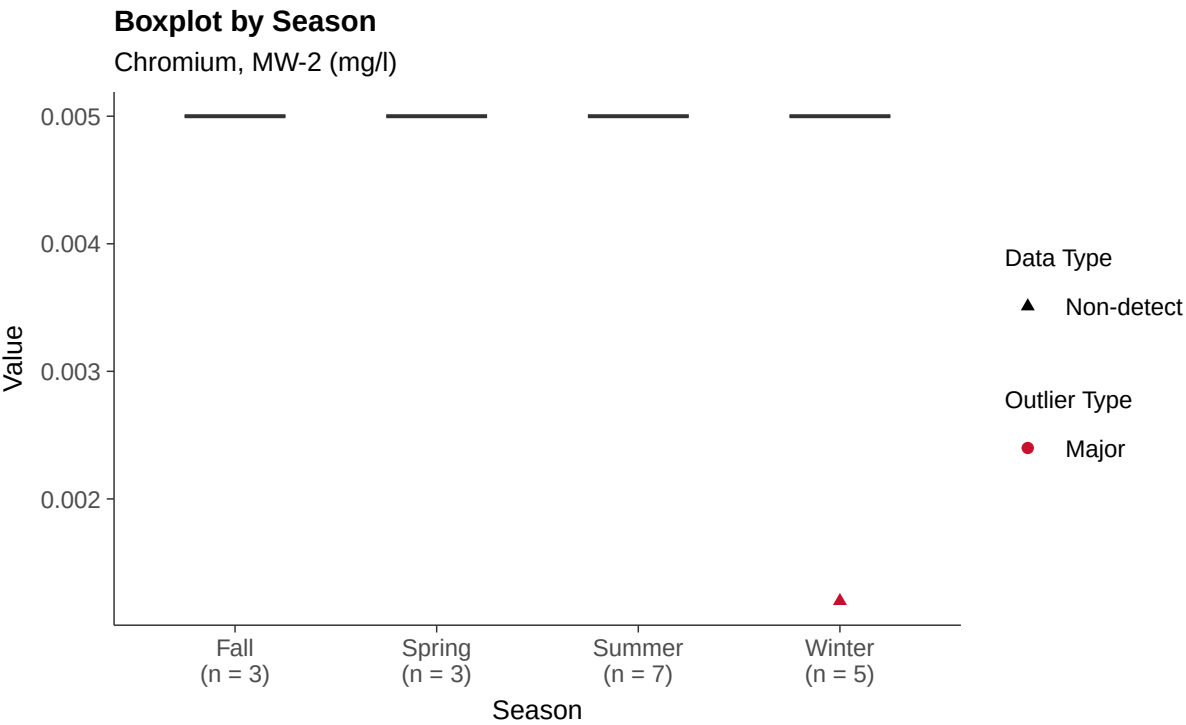
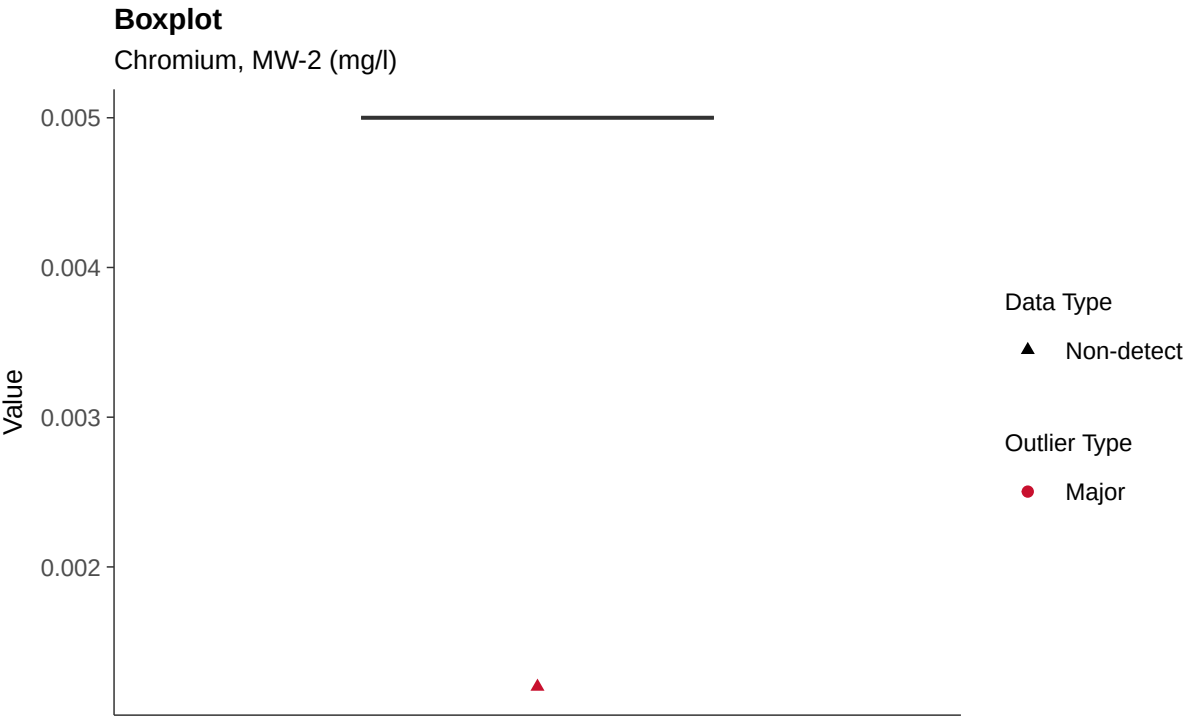


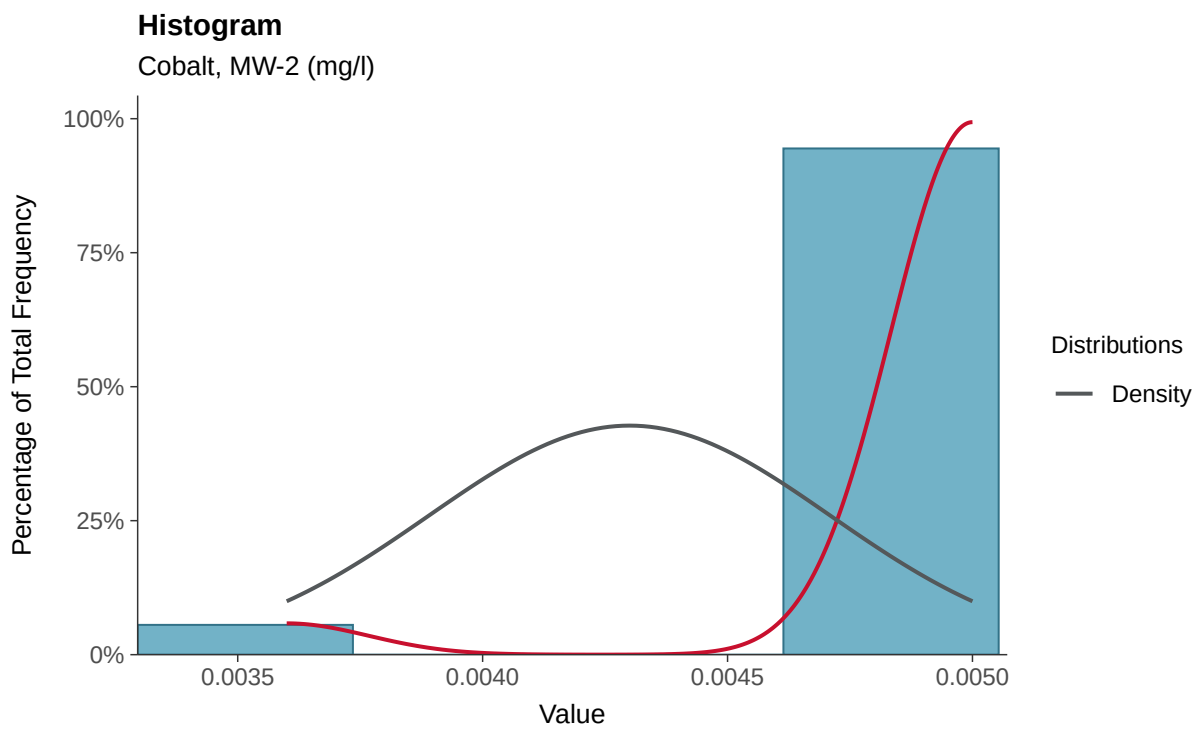


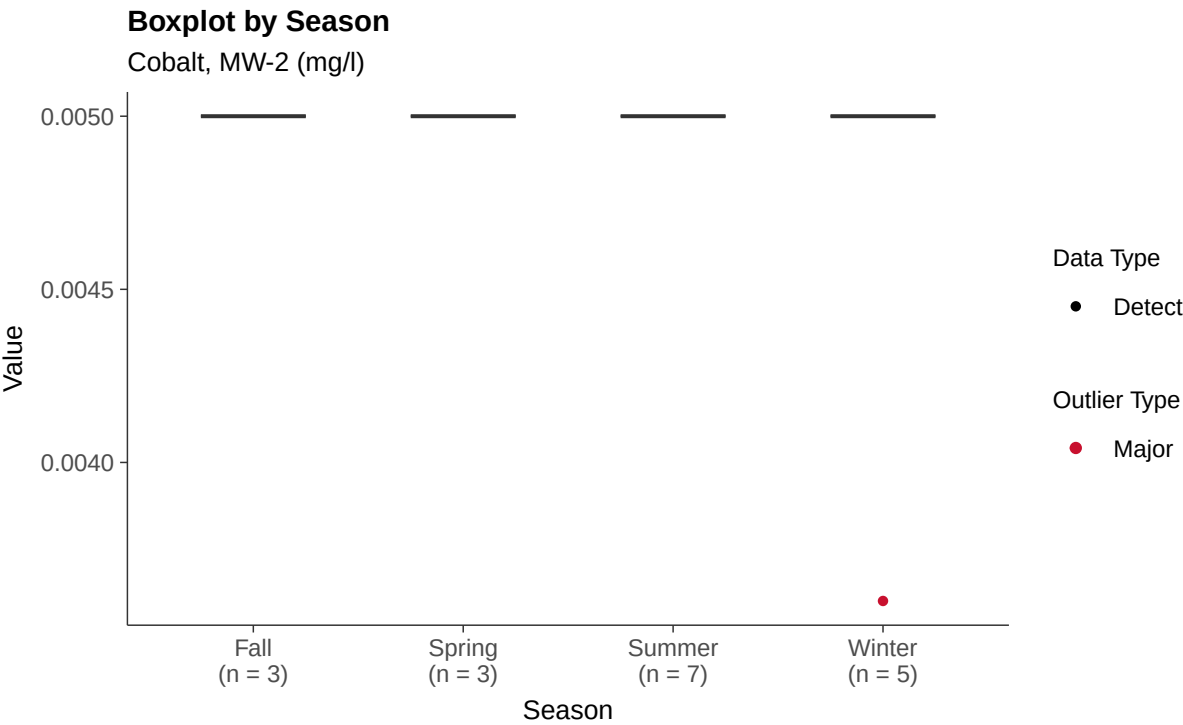
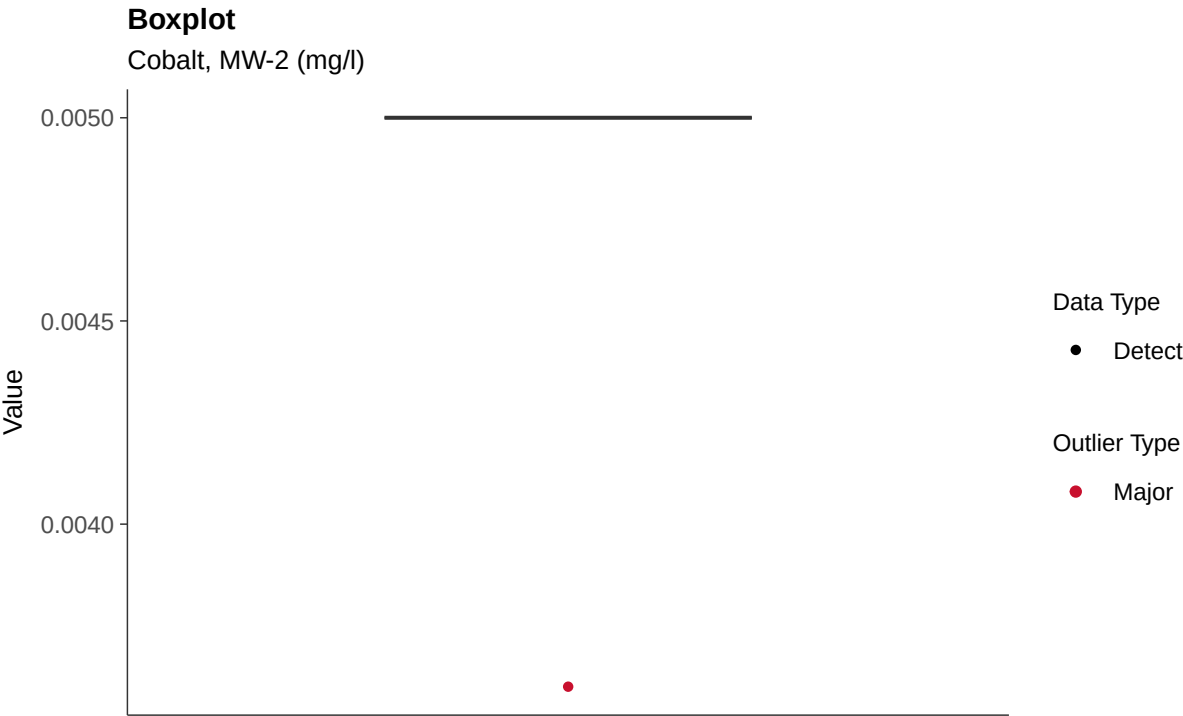
Appendix IV: Chromium, MW-2

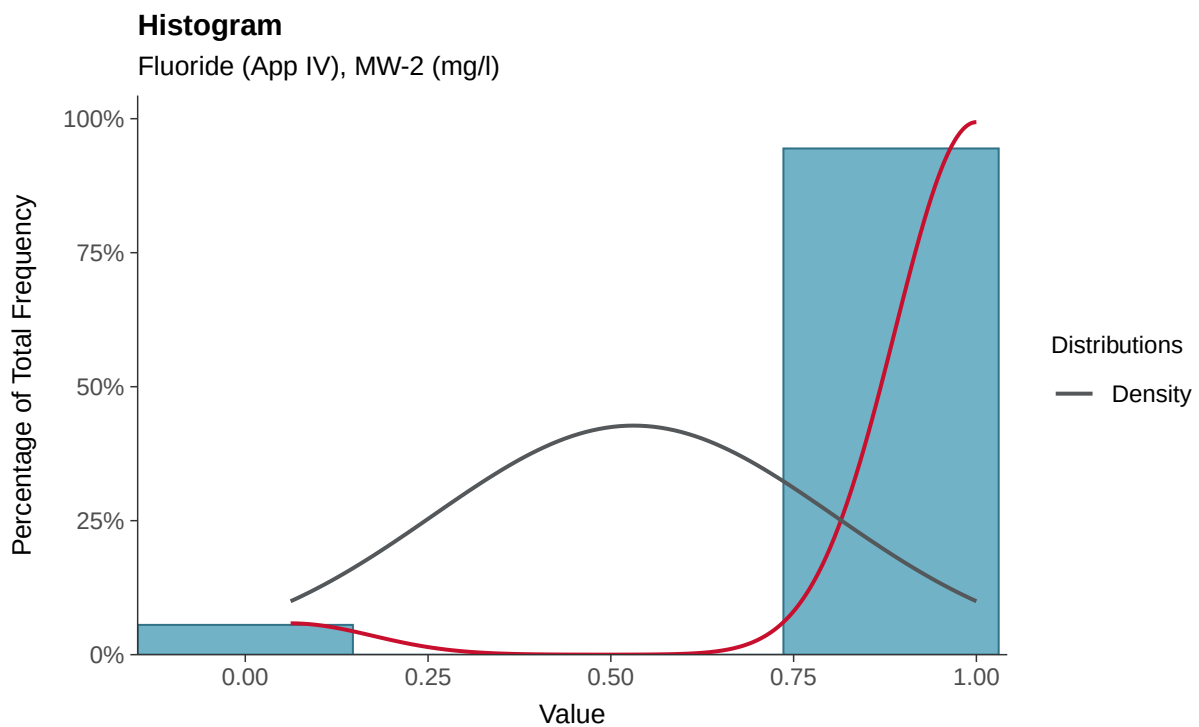
ID: 11_3_109

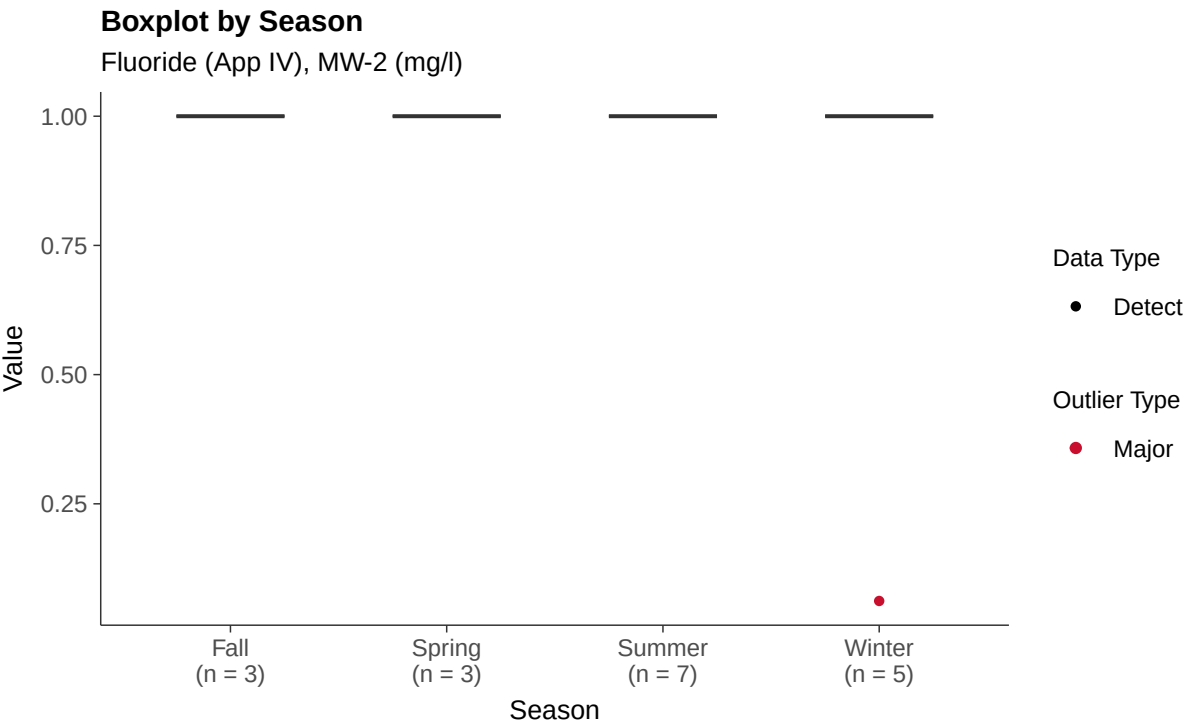
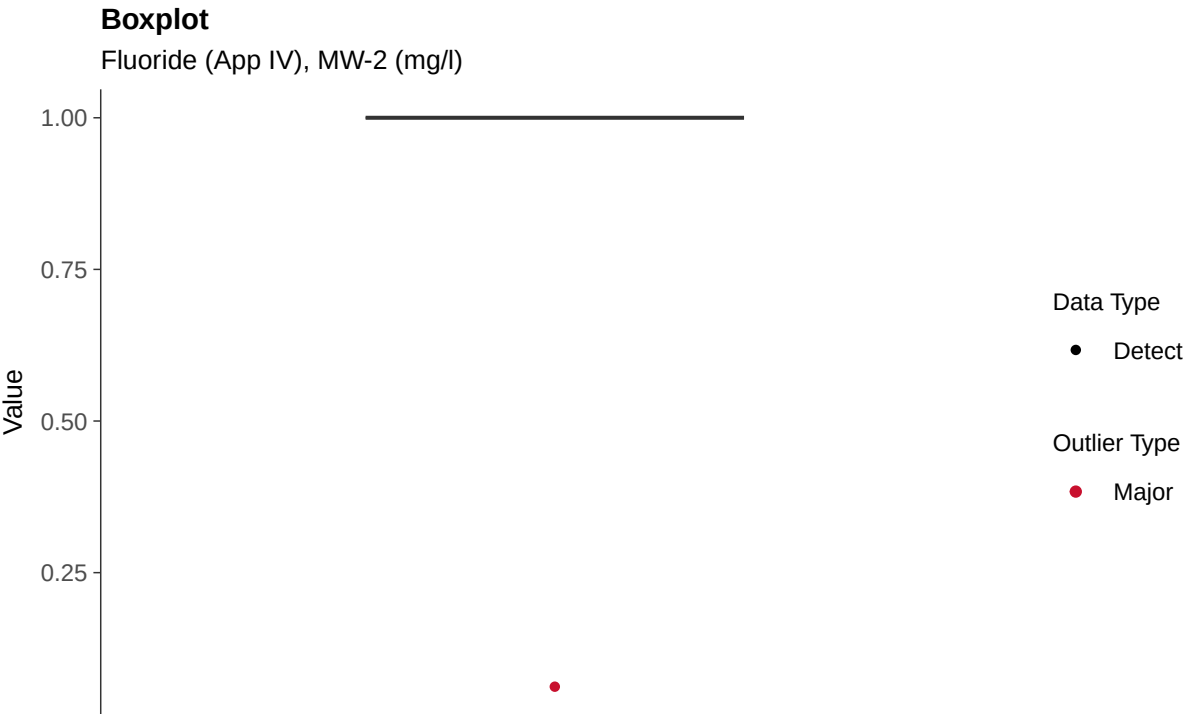


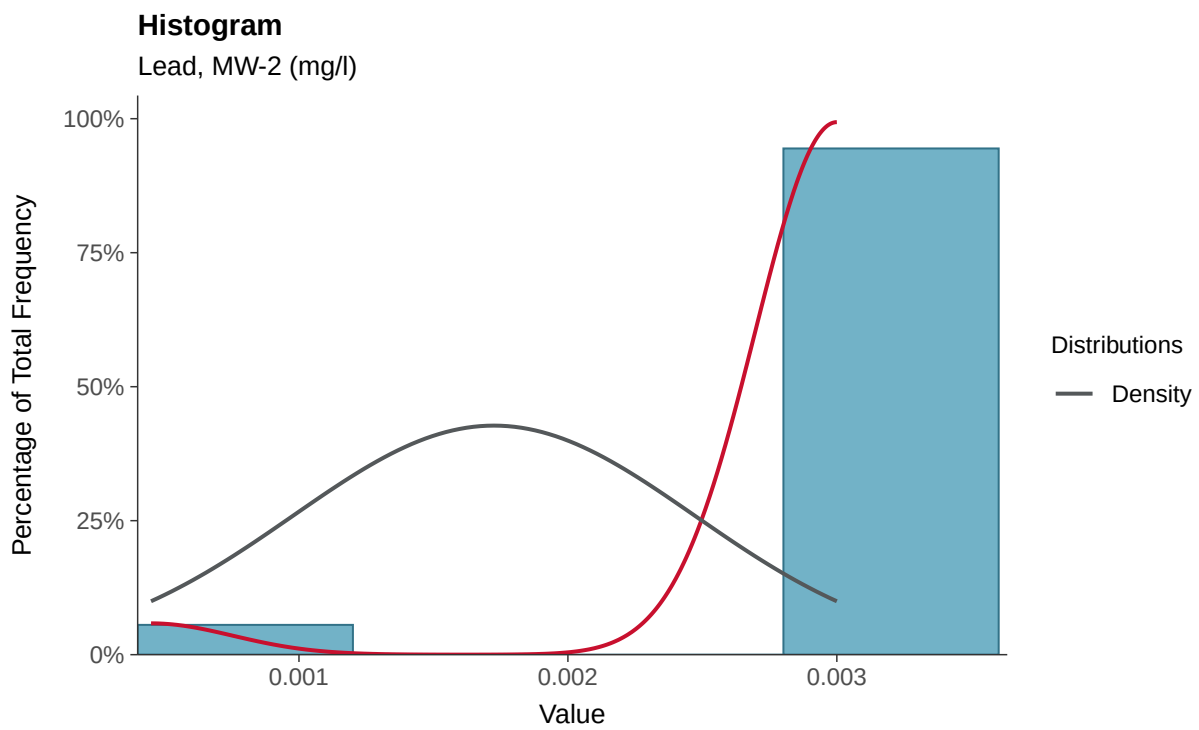


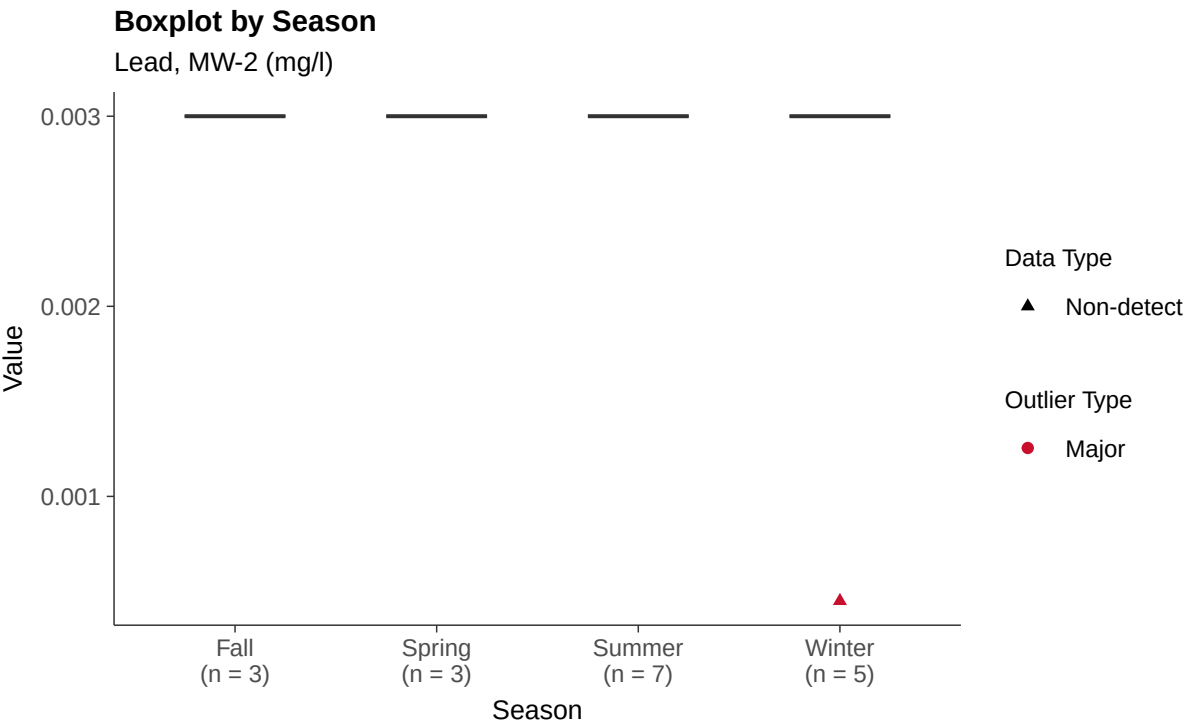
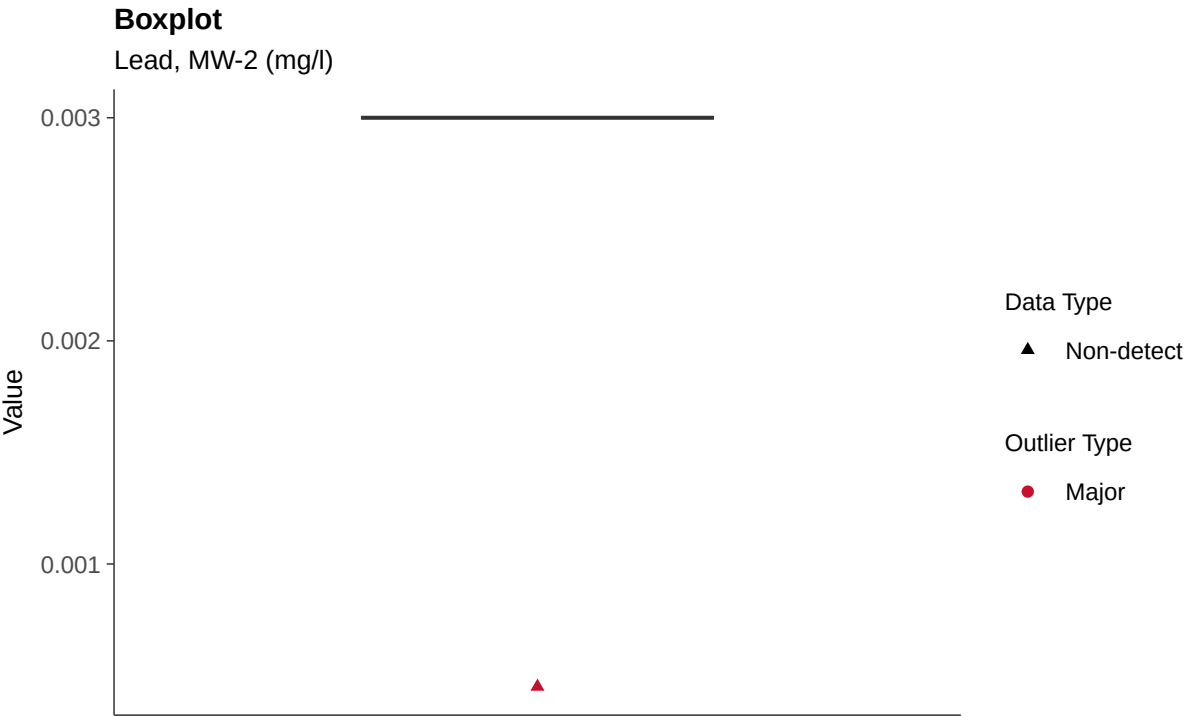








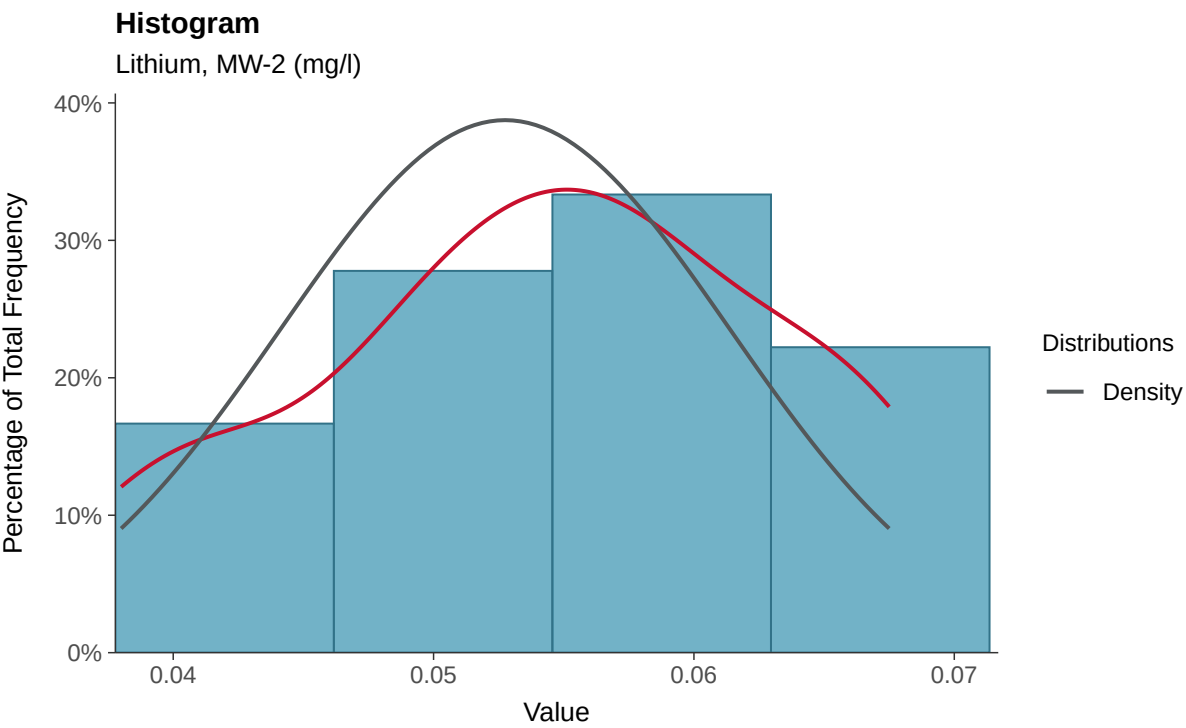
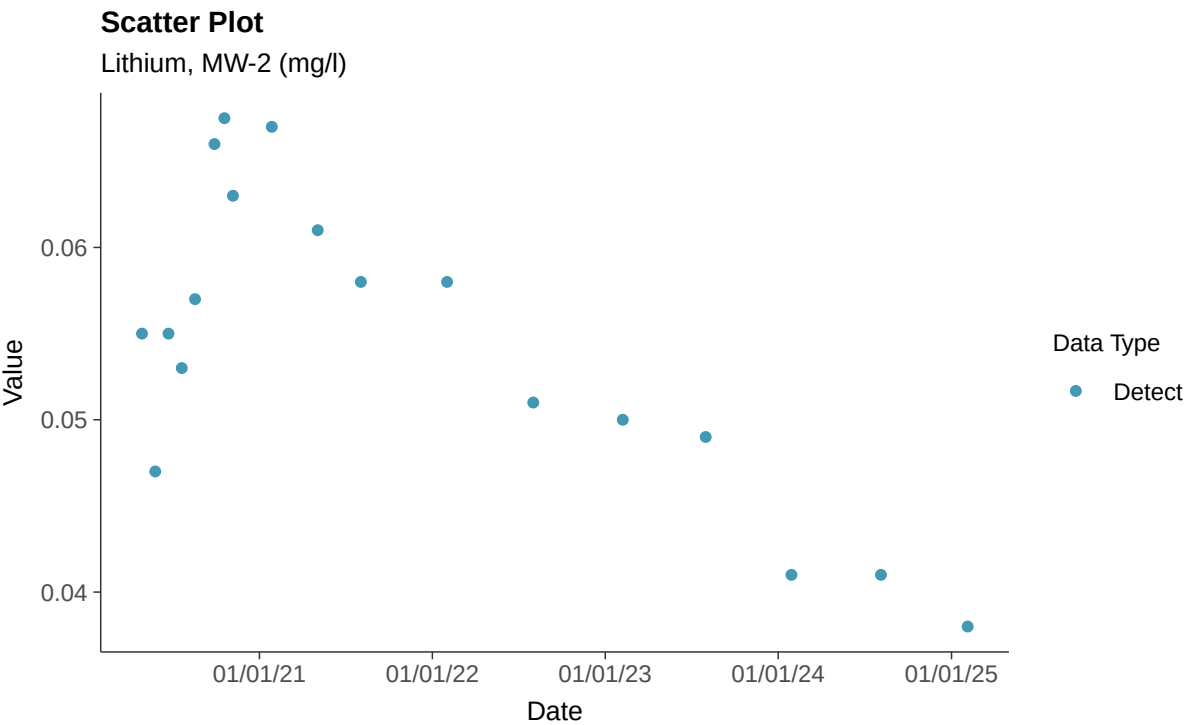


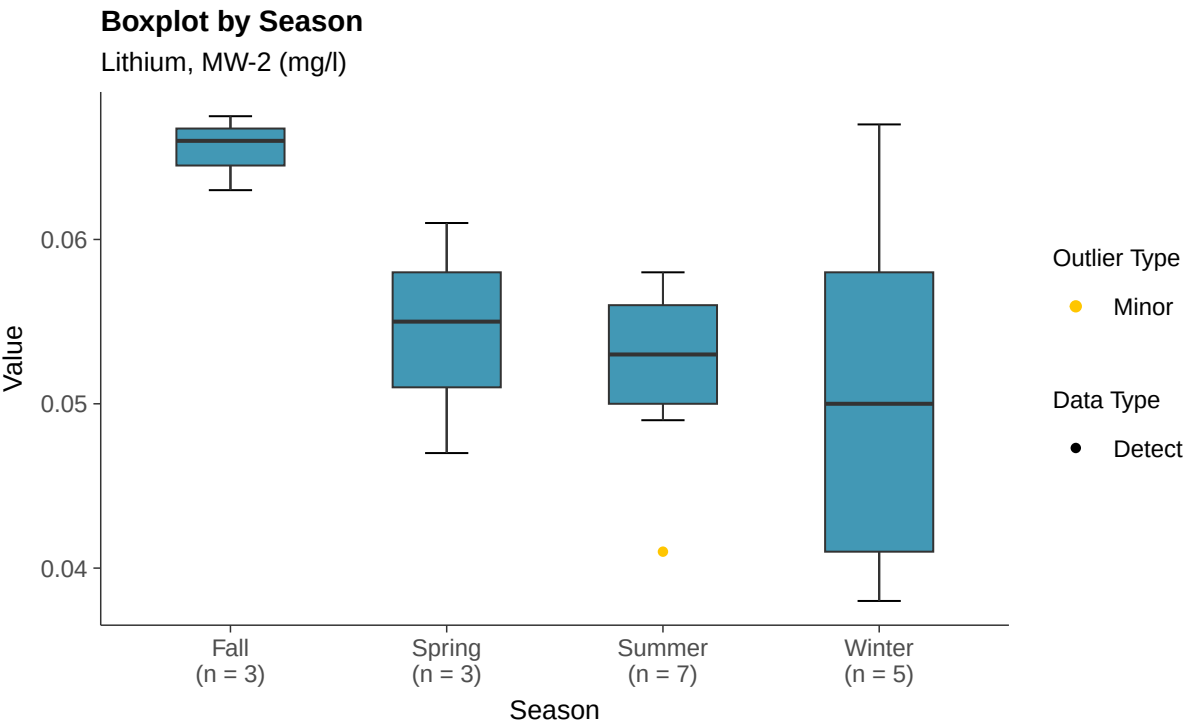
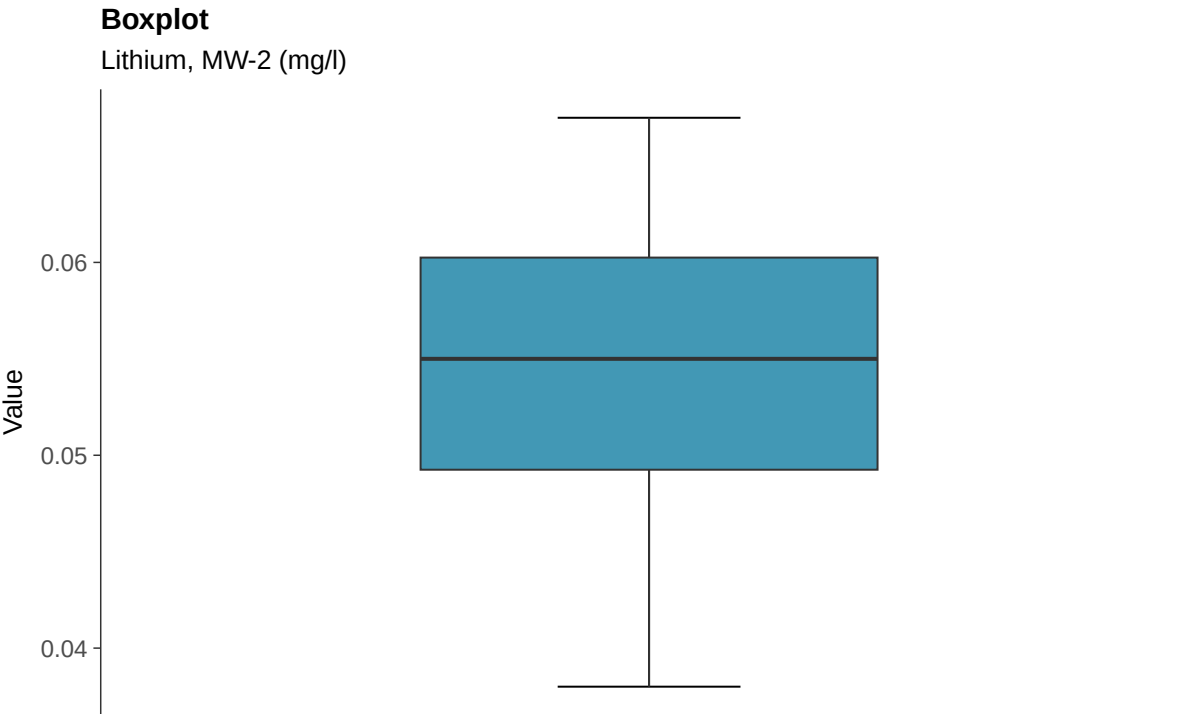


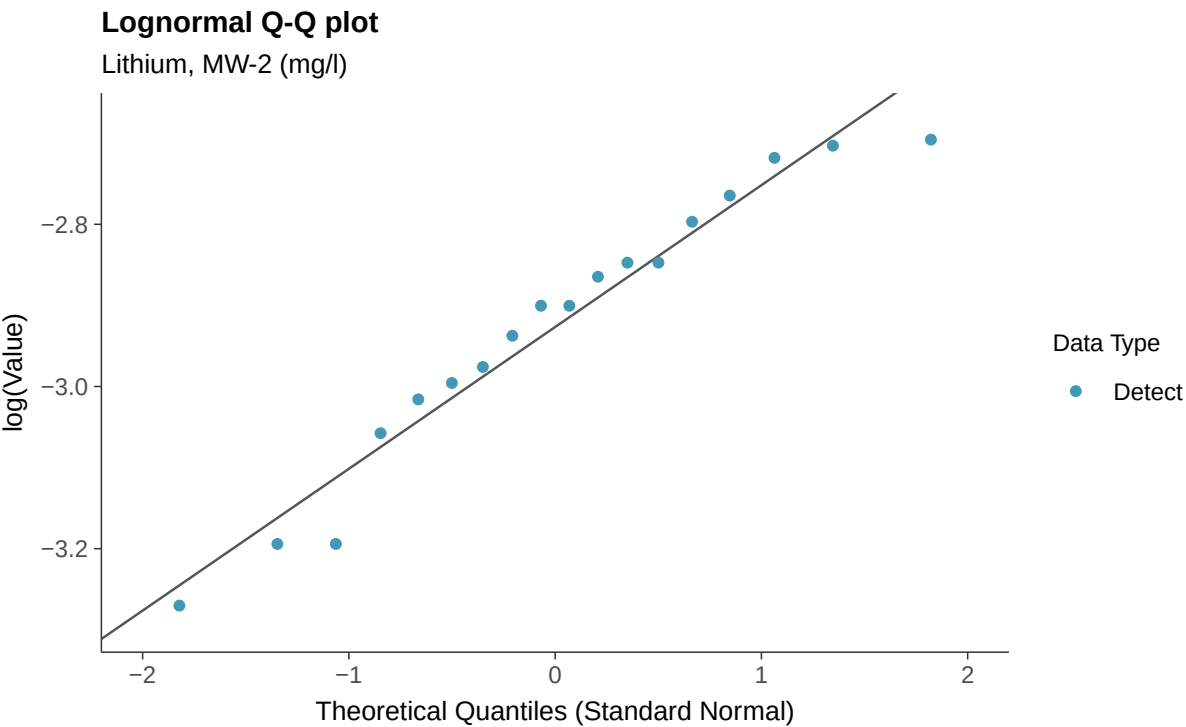
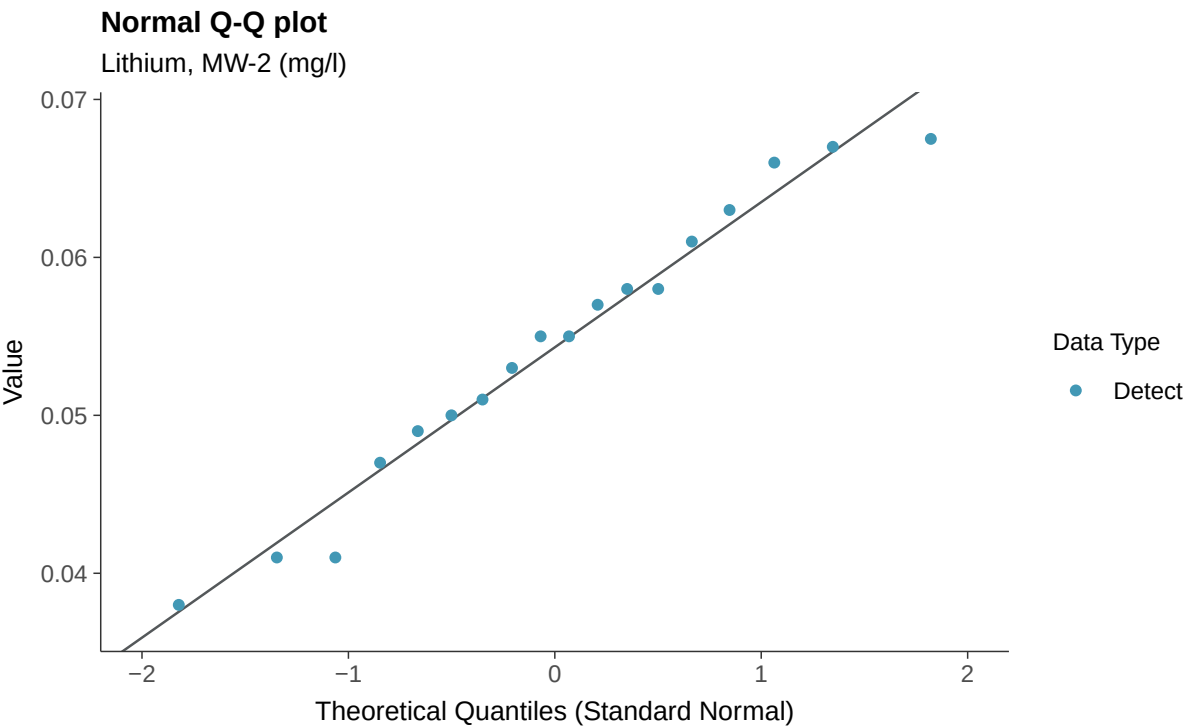


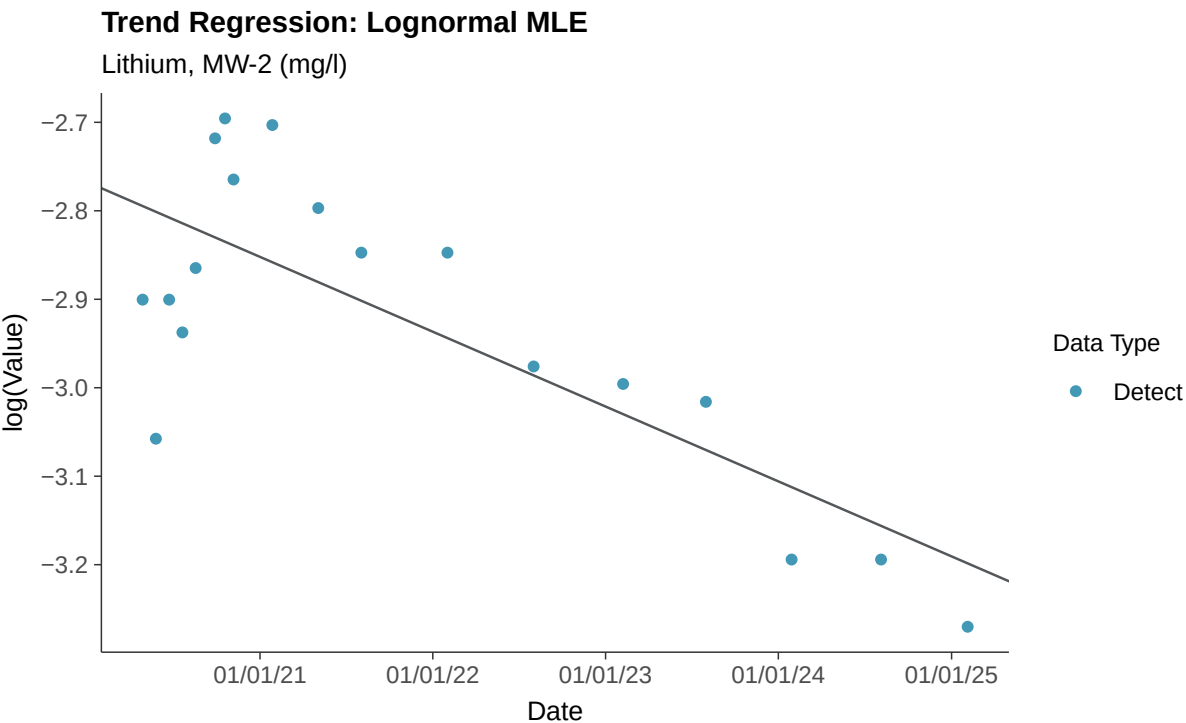
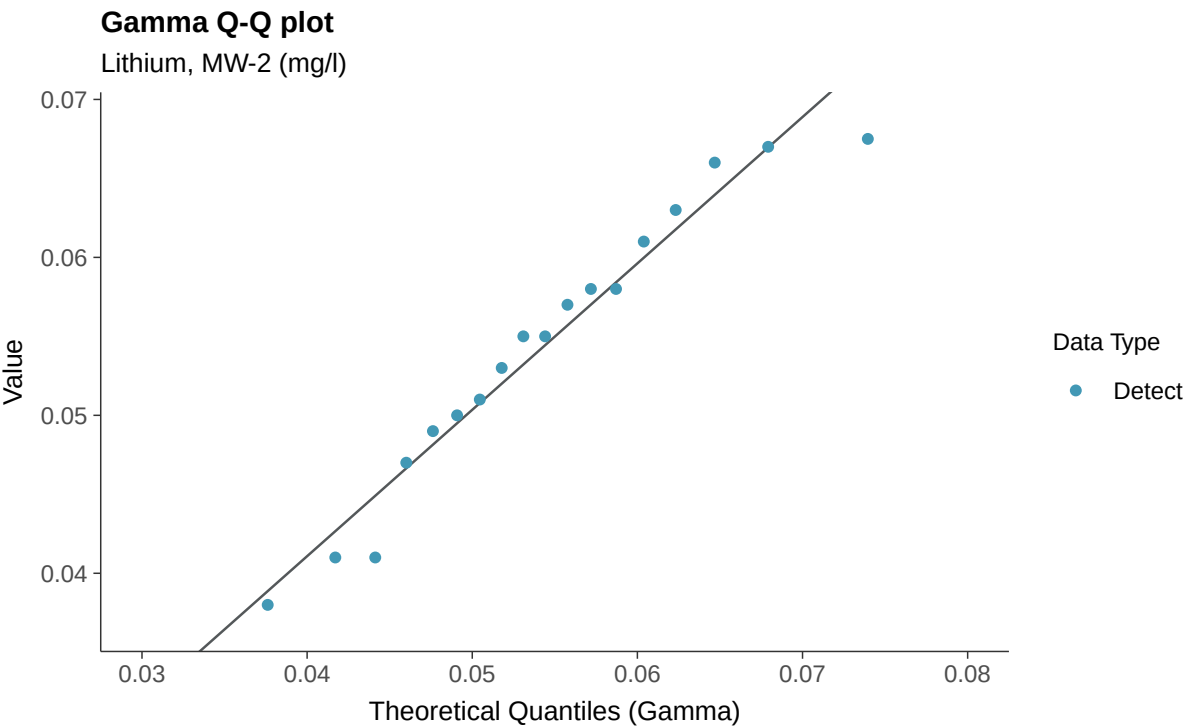
Appendix IV: Lithium, MW-2

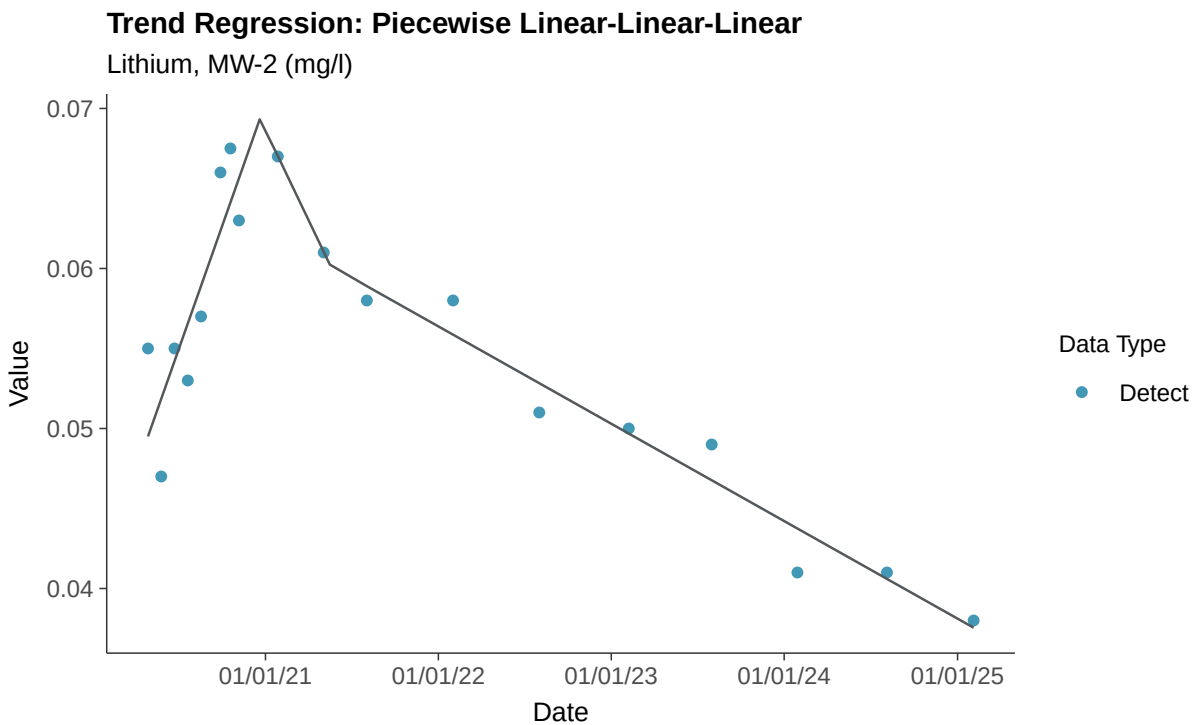
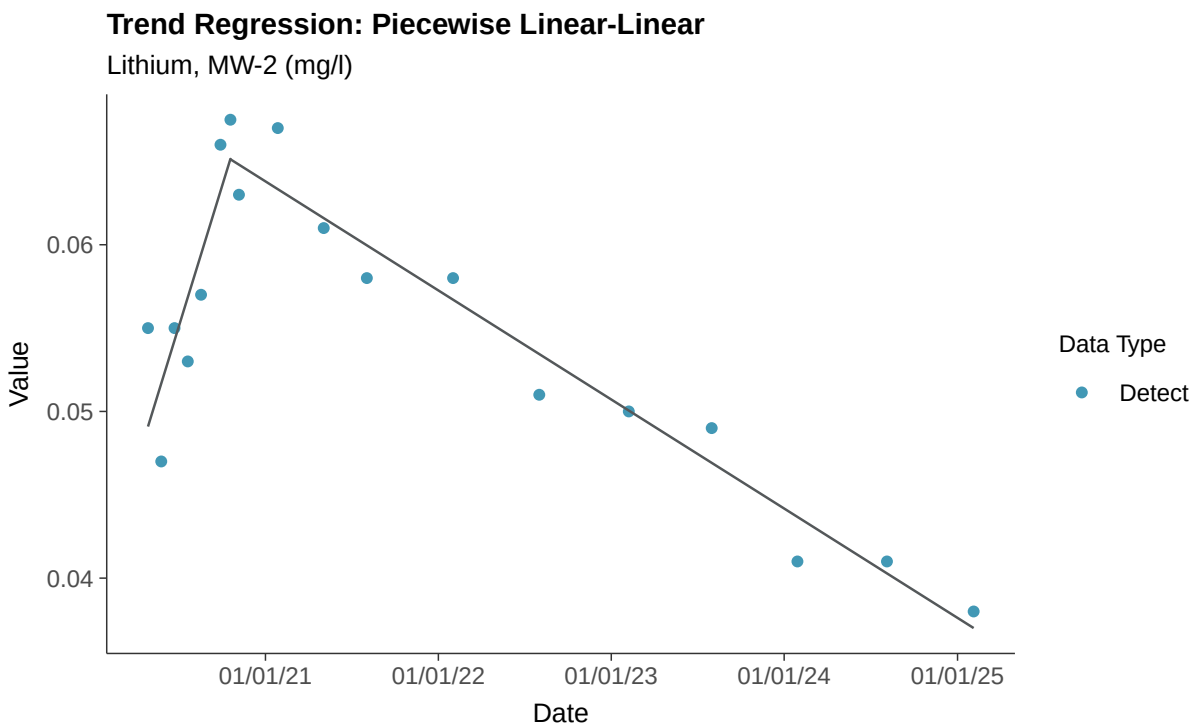
ID: 11_3_116

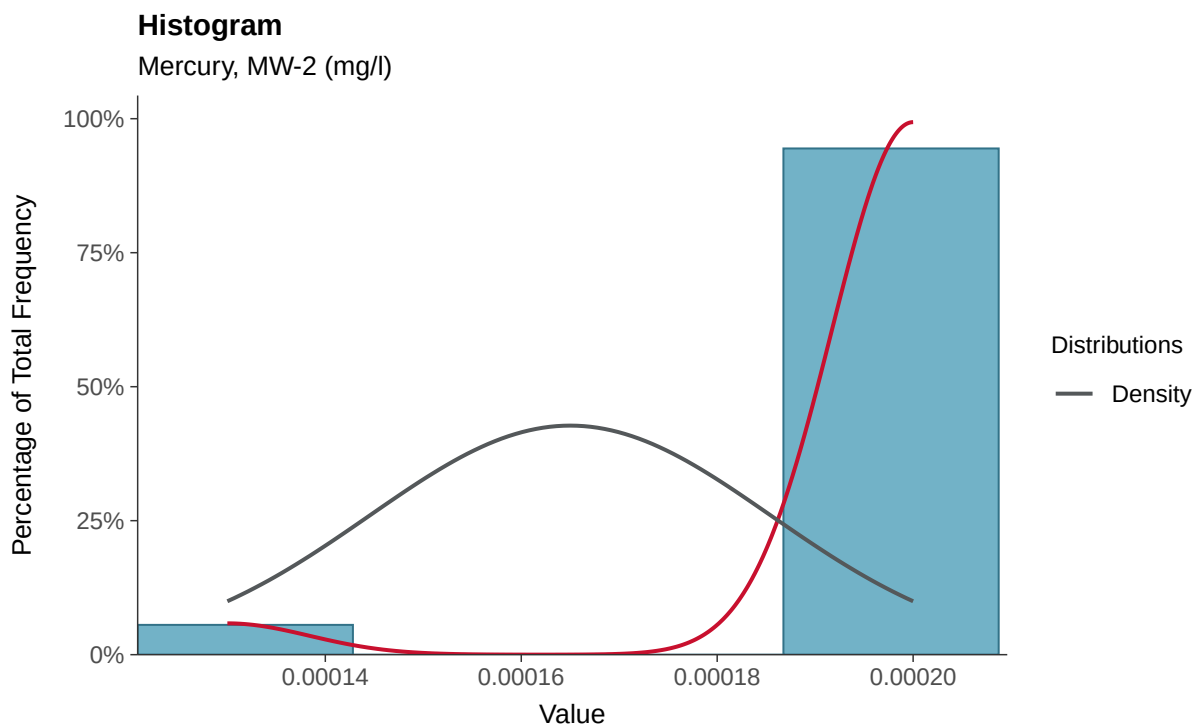


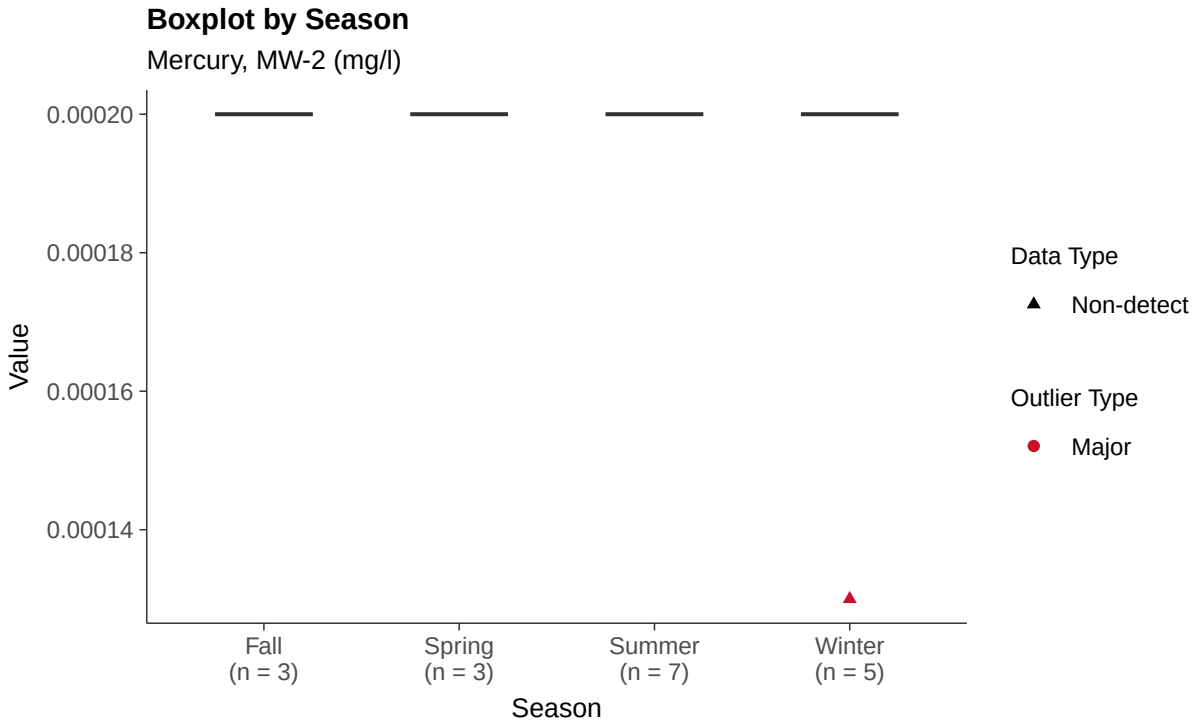
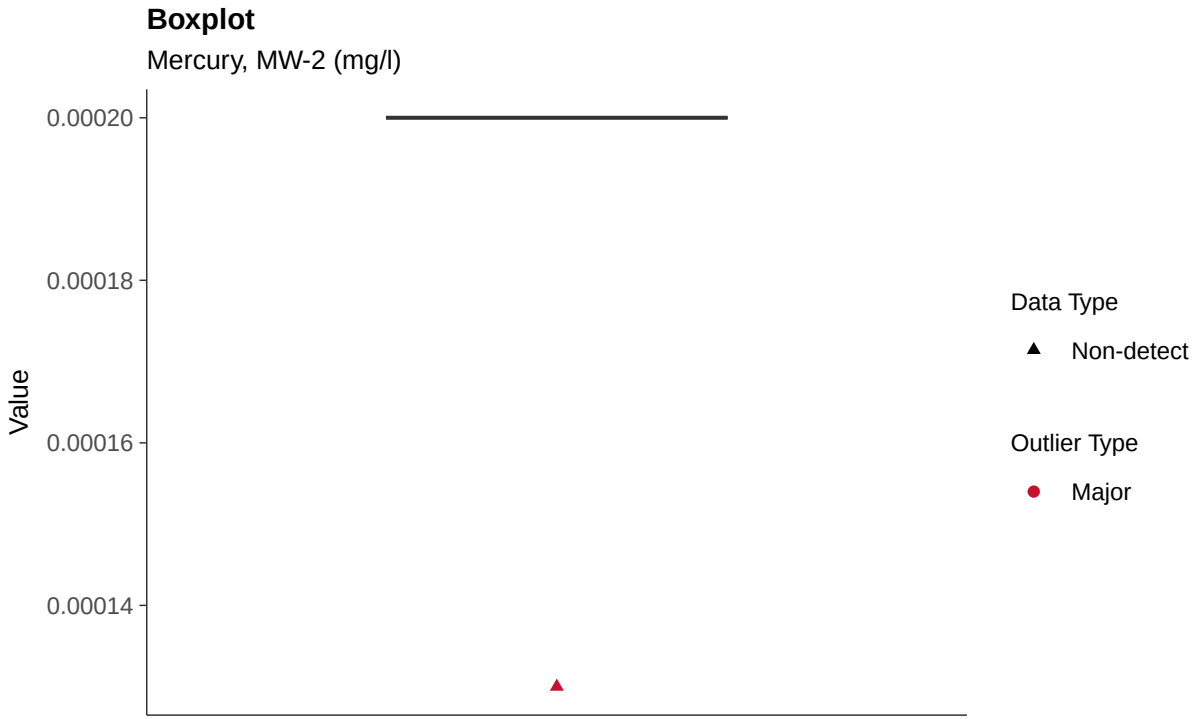








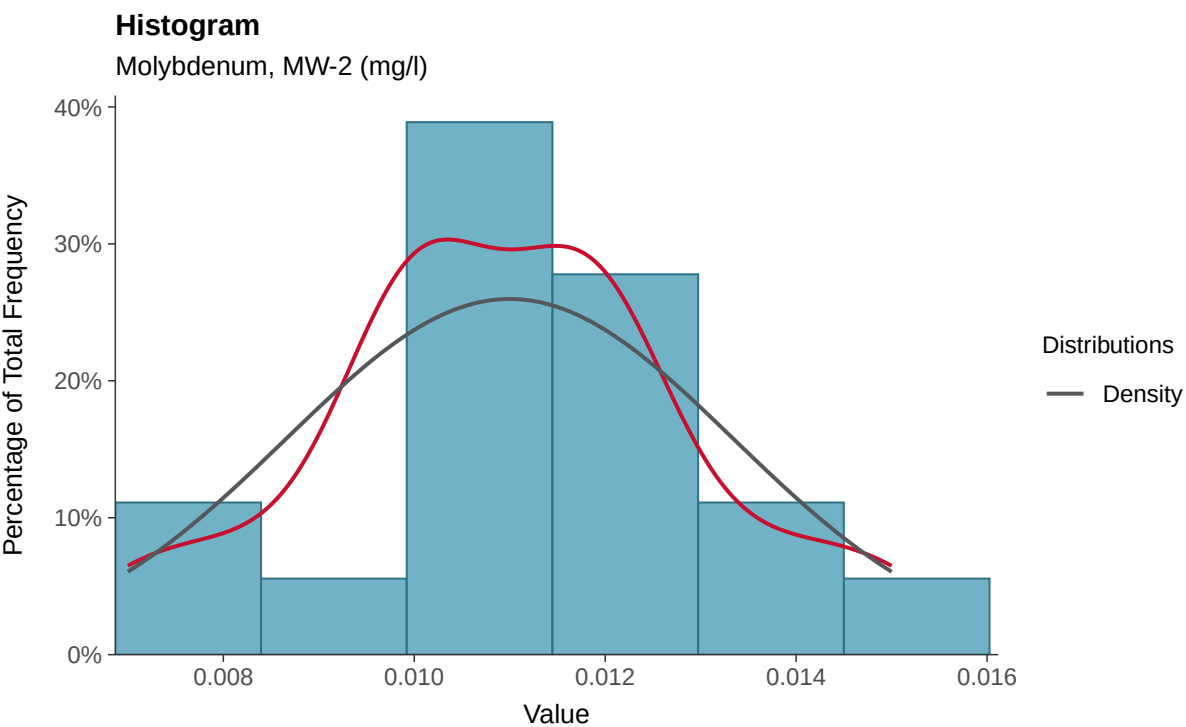
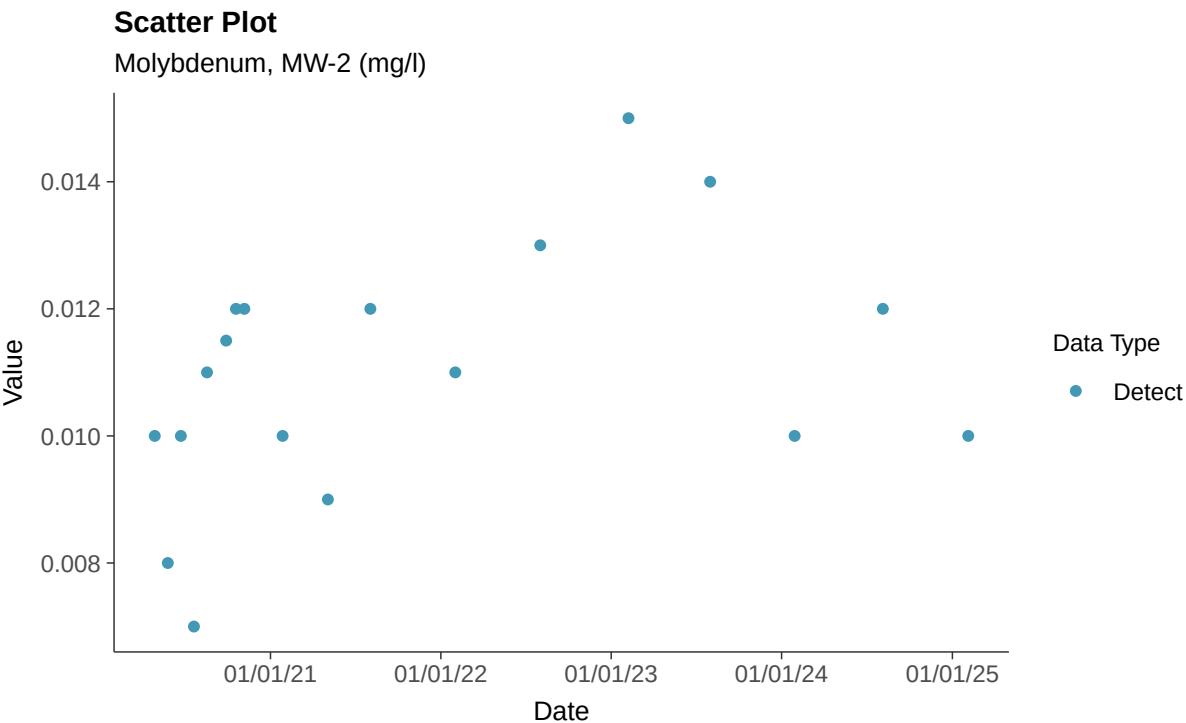


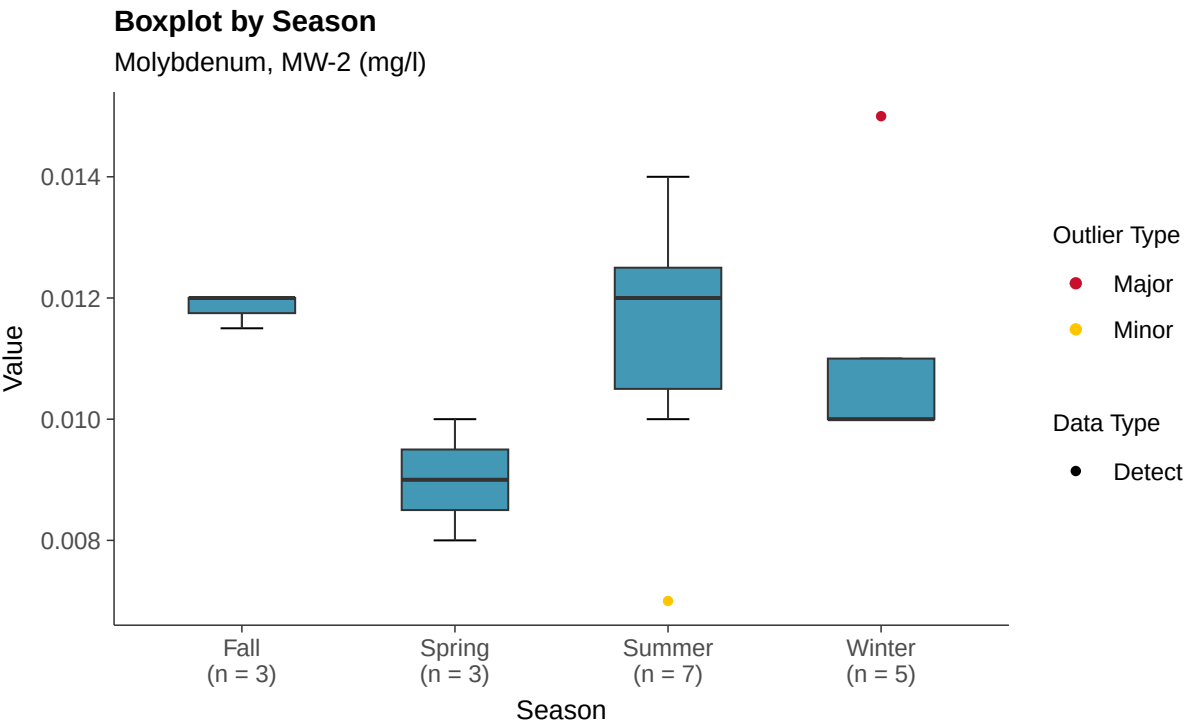
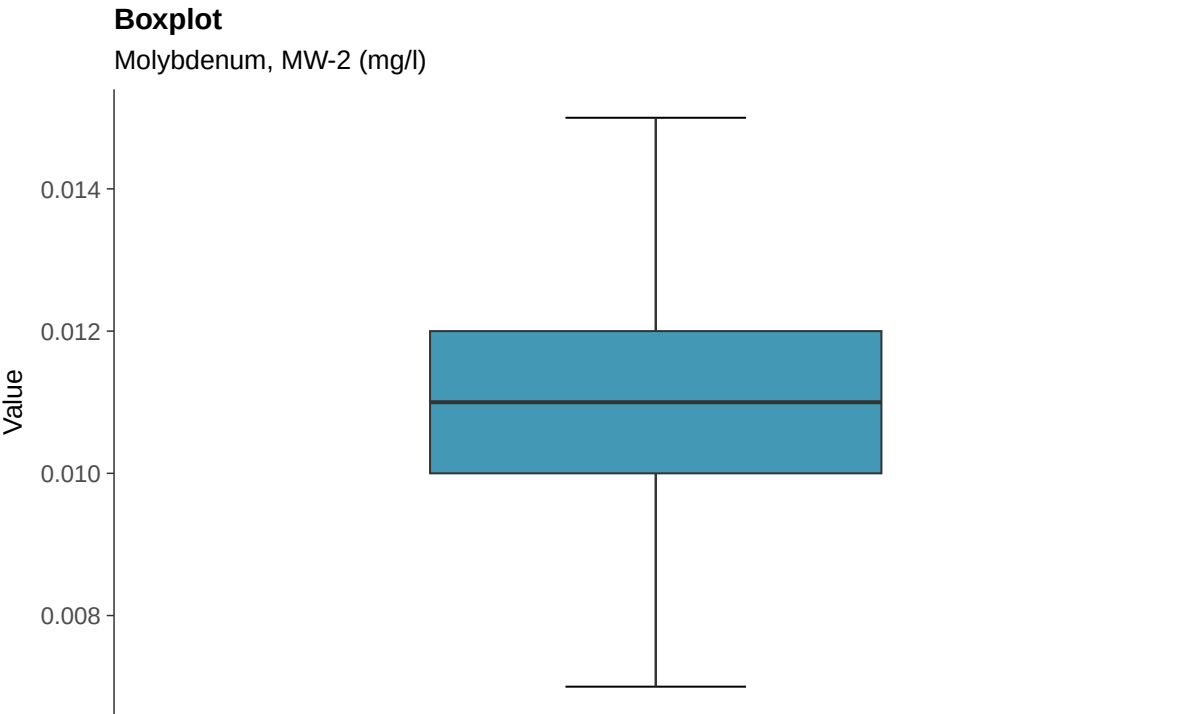


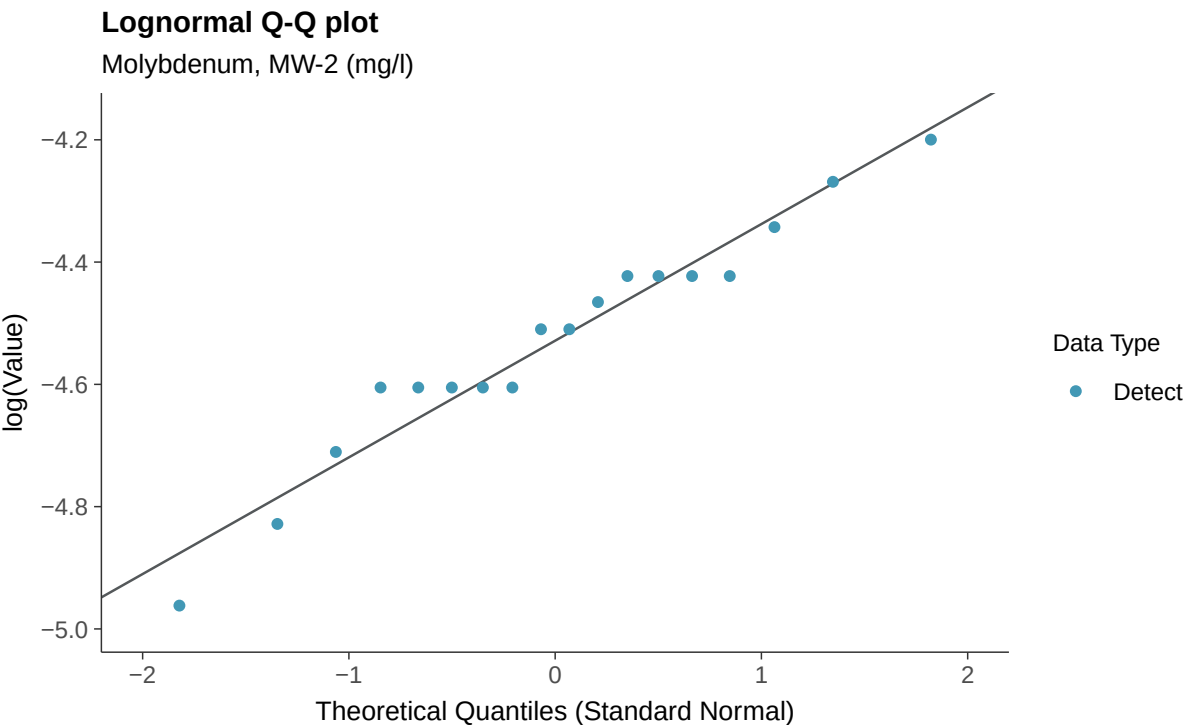
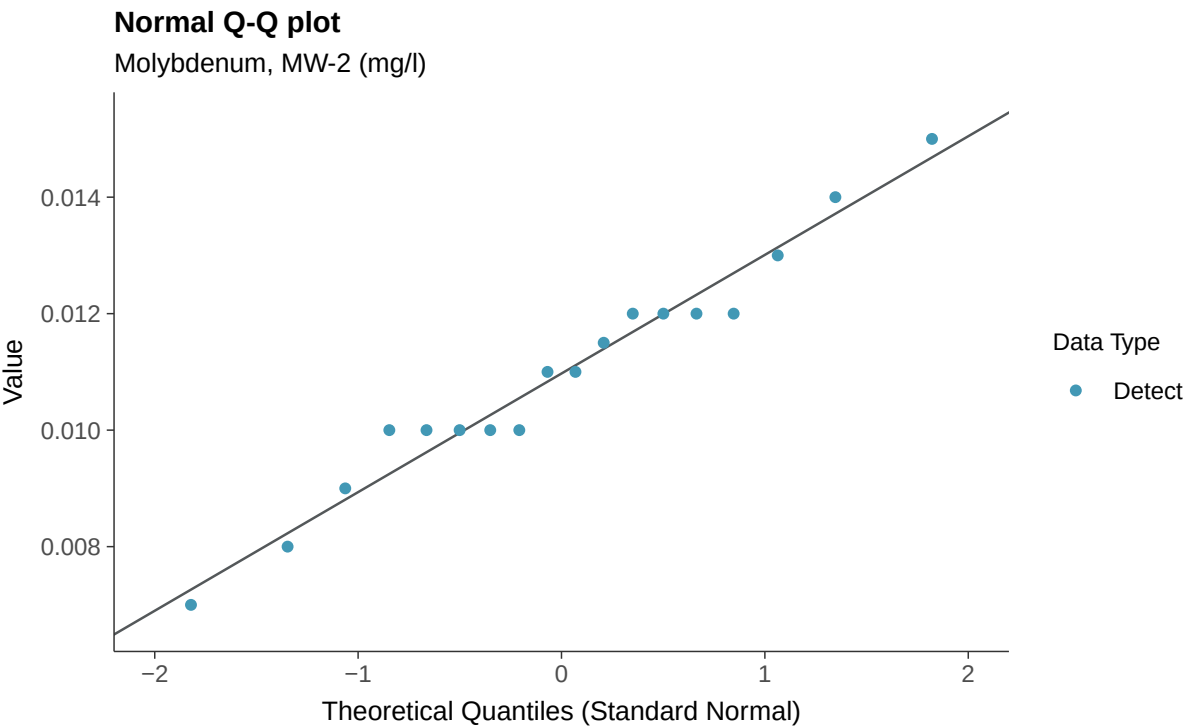


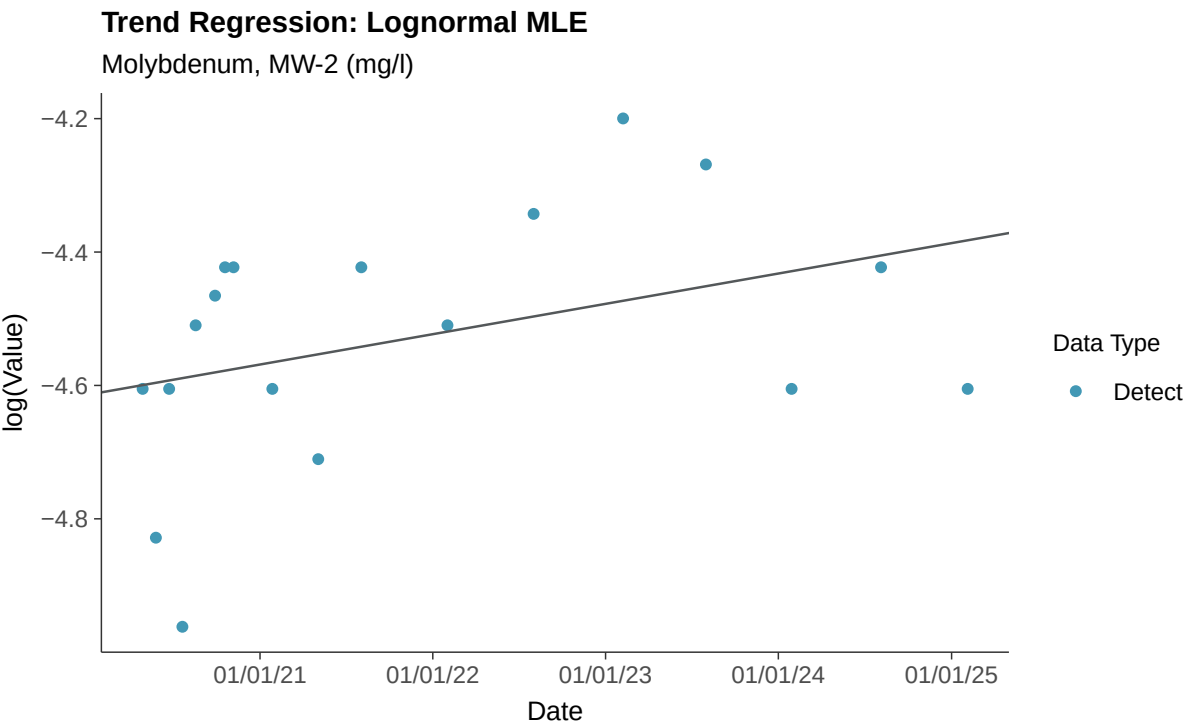
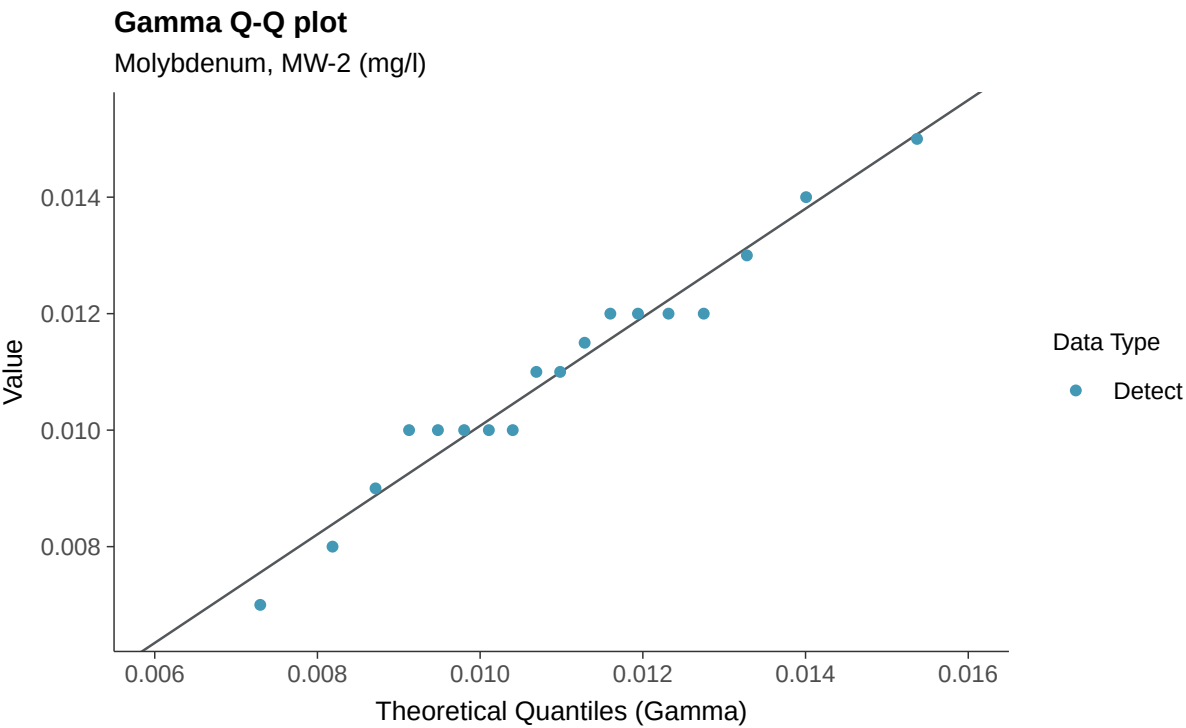
Appendix IV: Molybdenum, MW-2

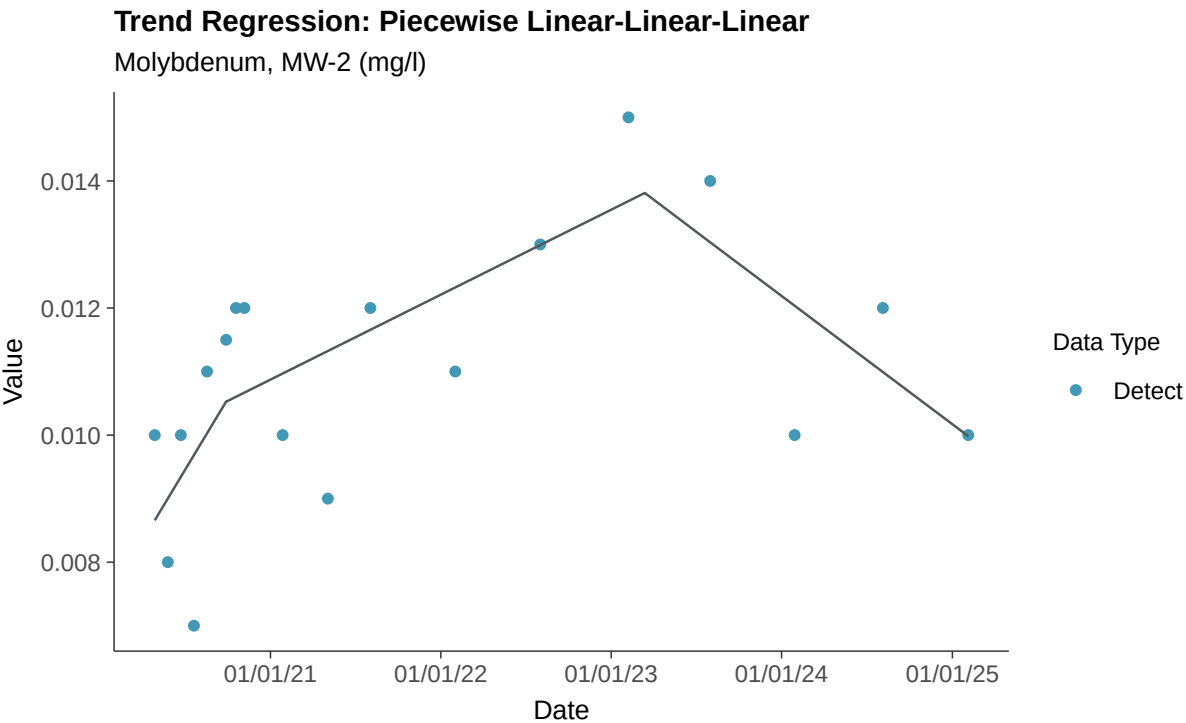
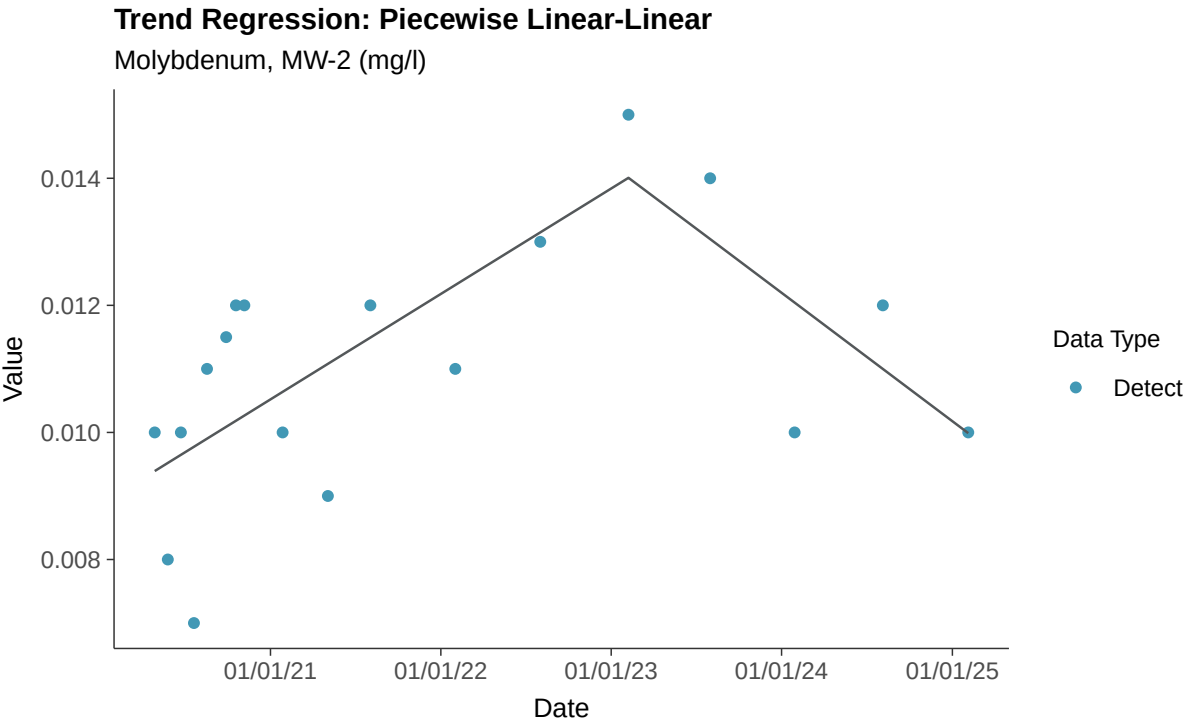
ID: 11_3_118







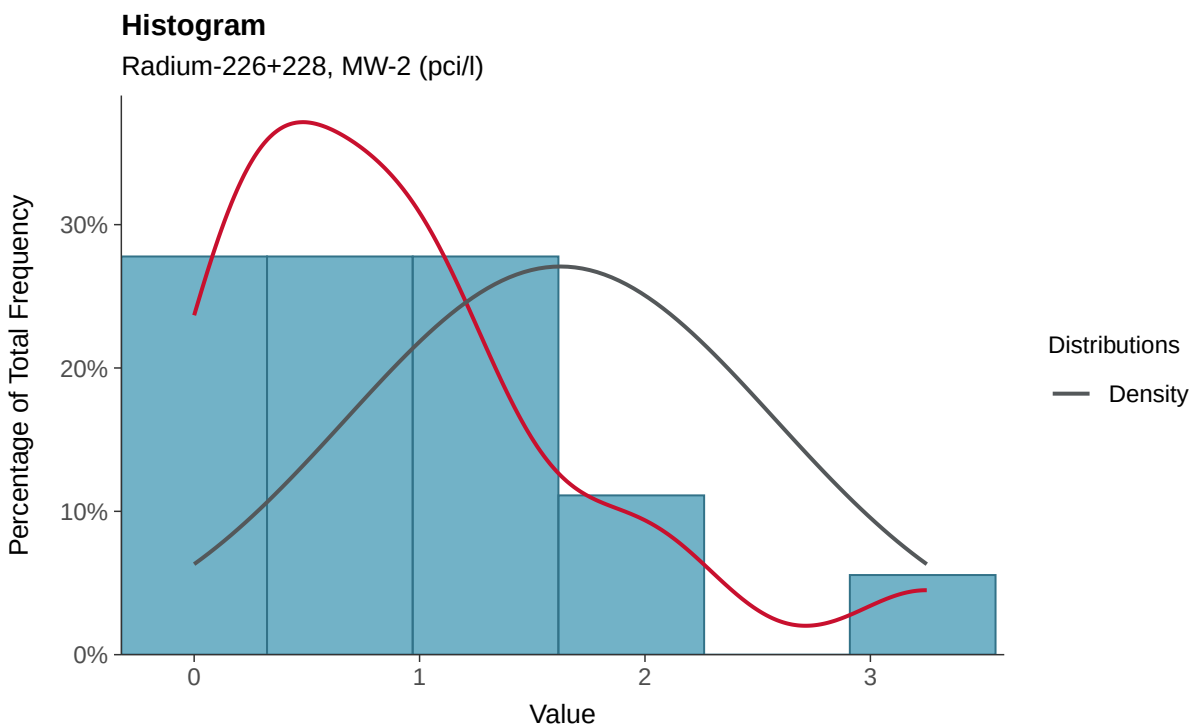
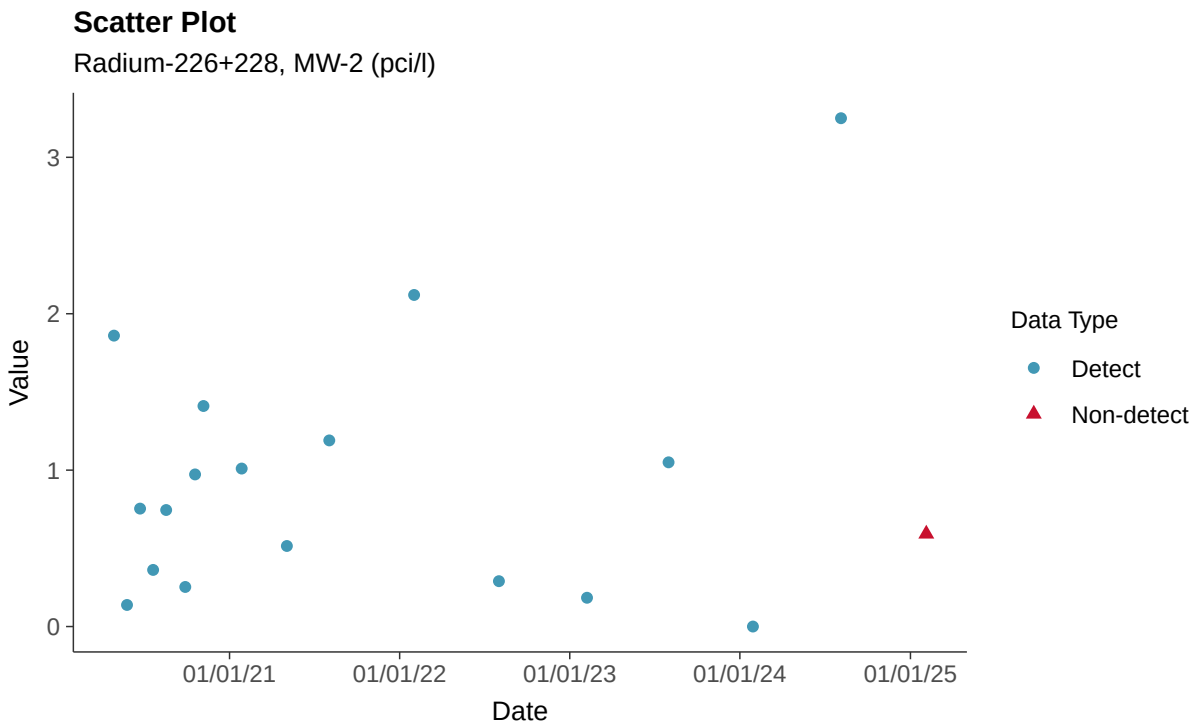






Appendix IV: Radium-226+228, MW-2

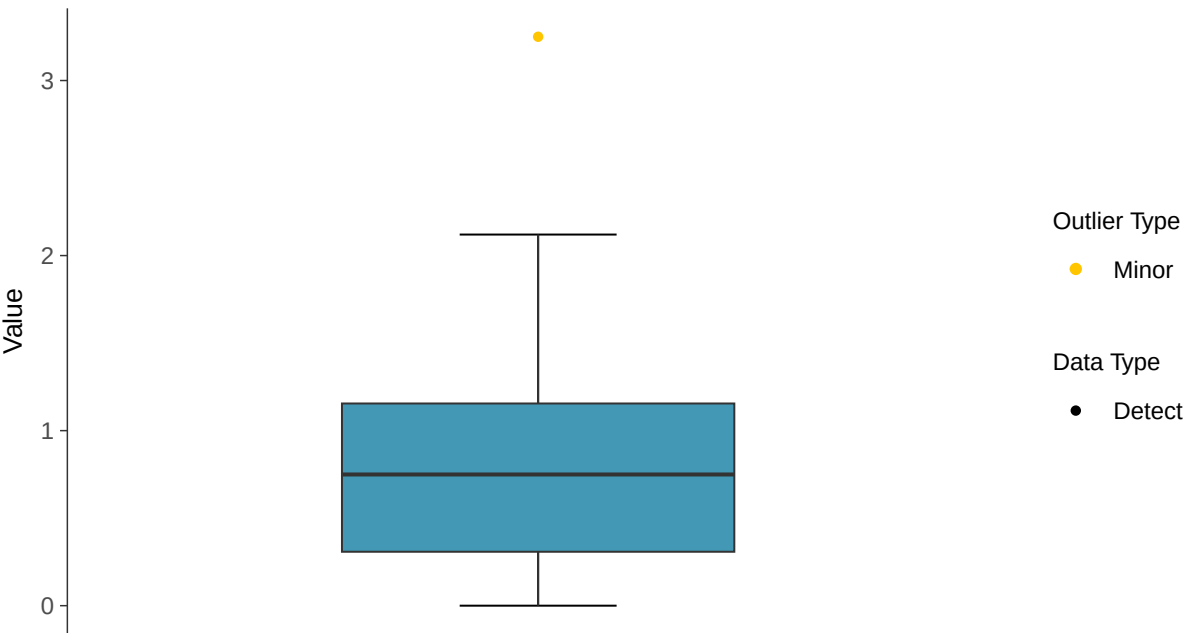
ID: 11_3_121





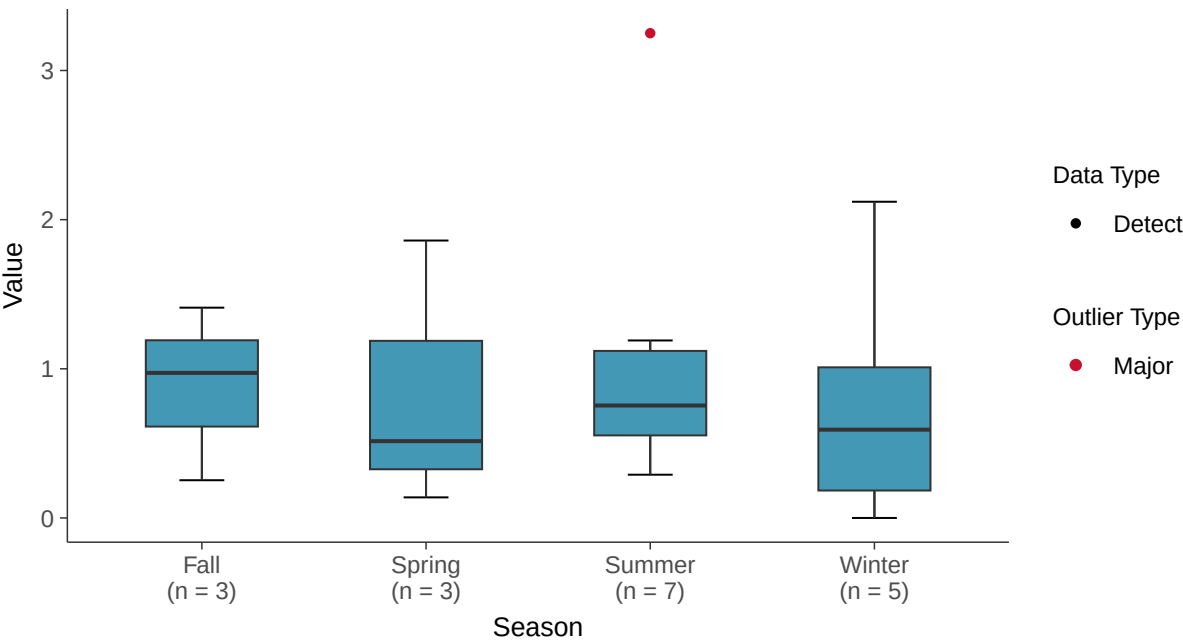
Boxplot

Radium-226+228, MW-2 (pci/l)



Boxplot by Season

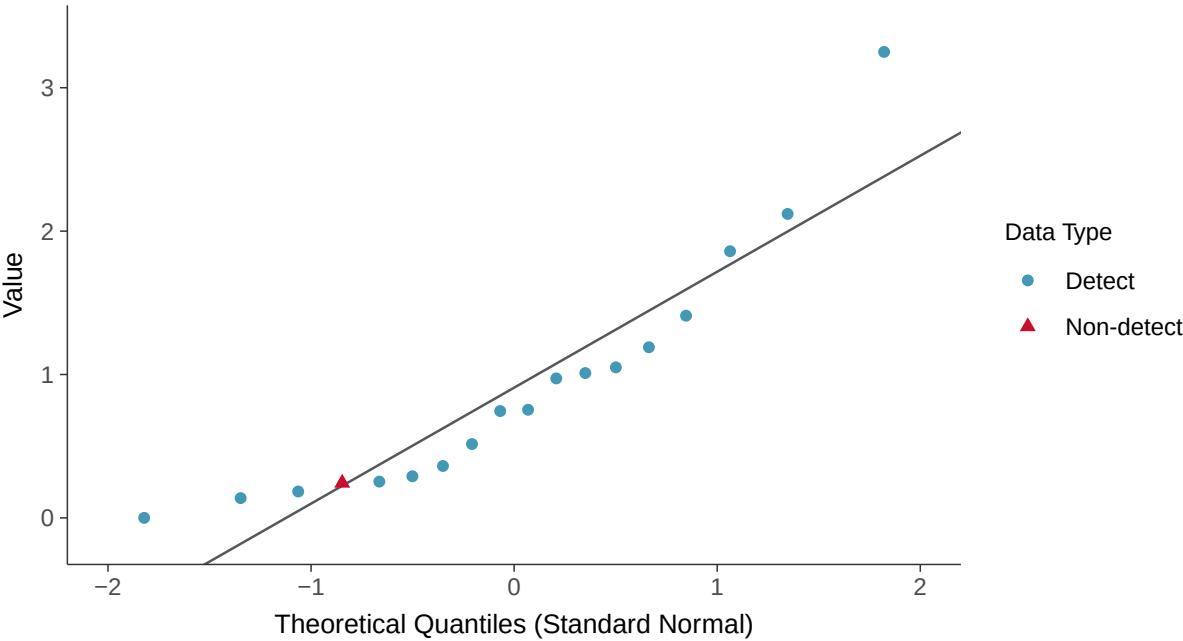
Radium-226+228, MW-2 (pci/l)

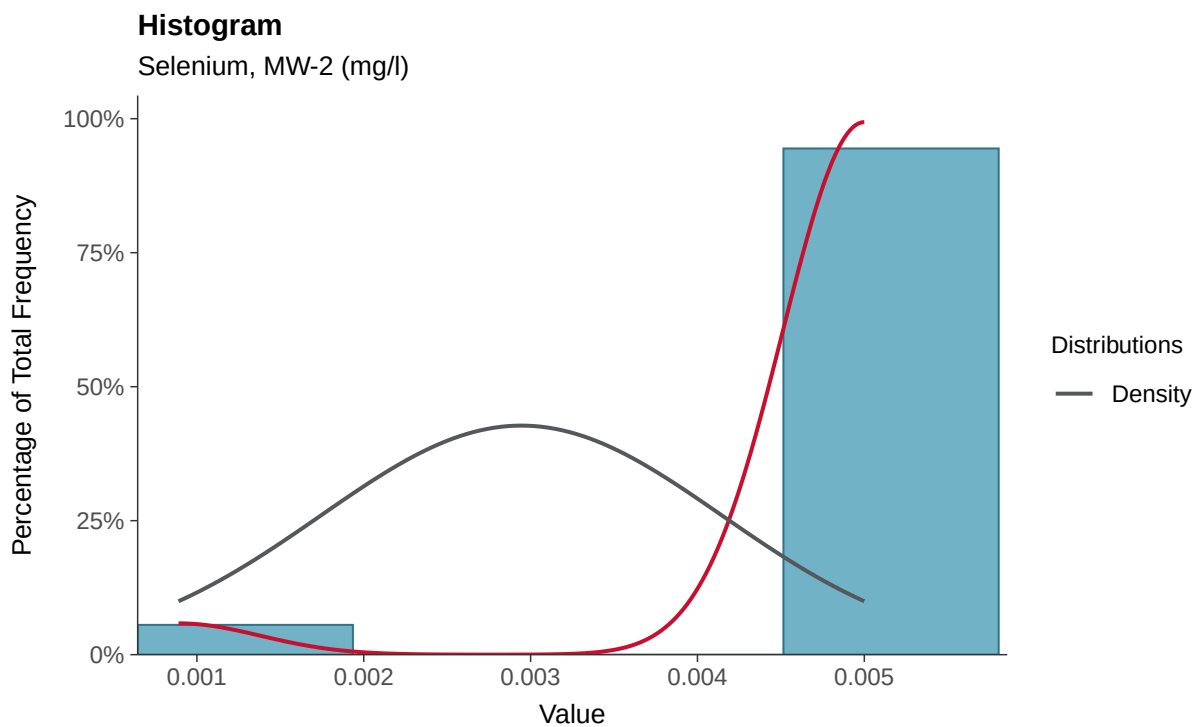


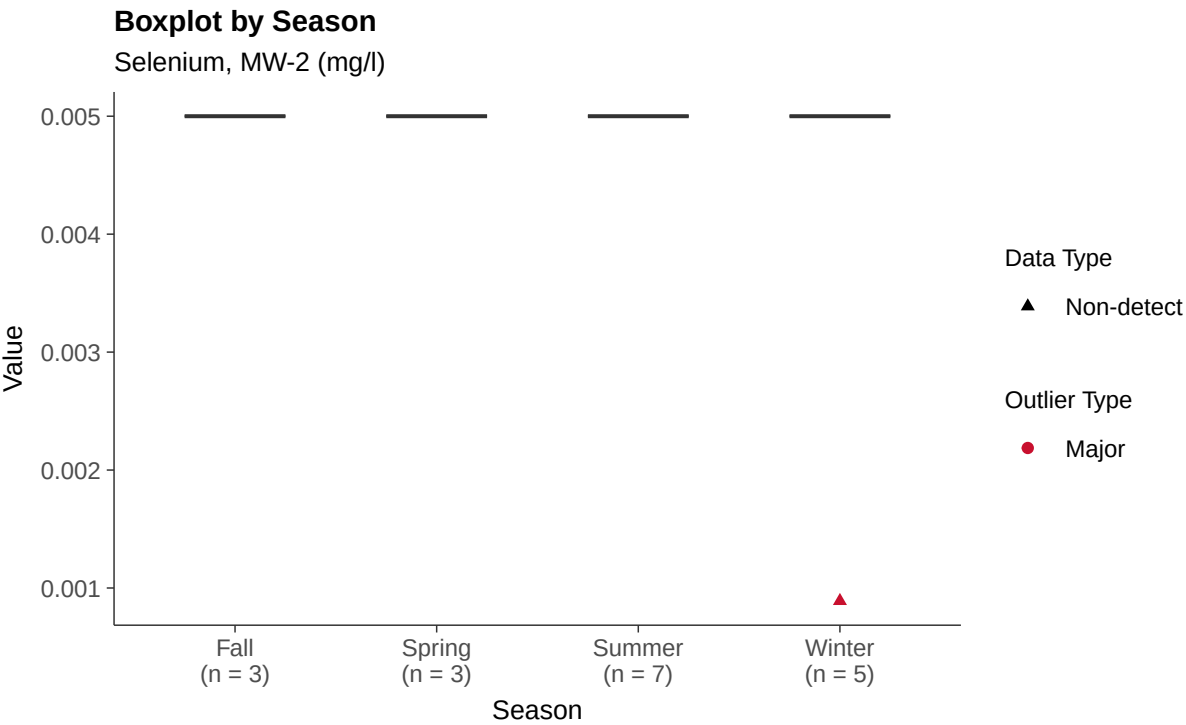
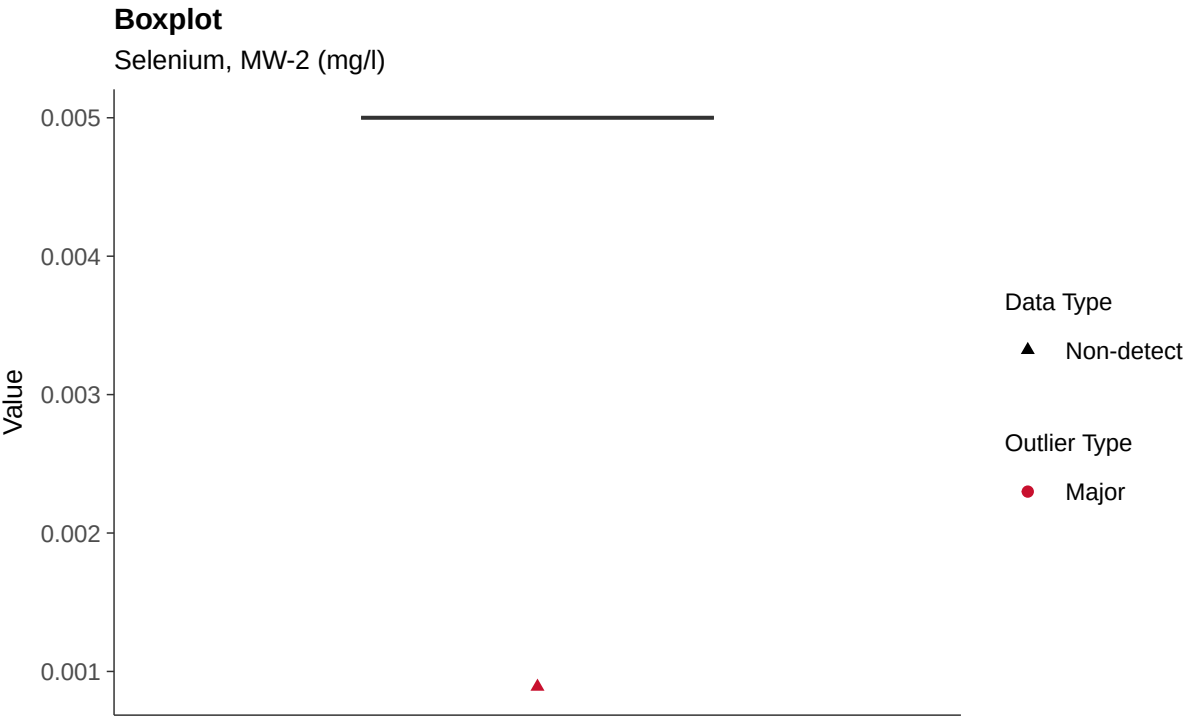


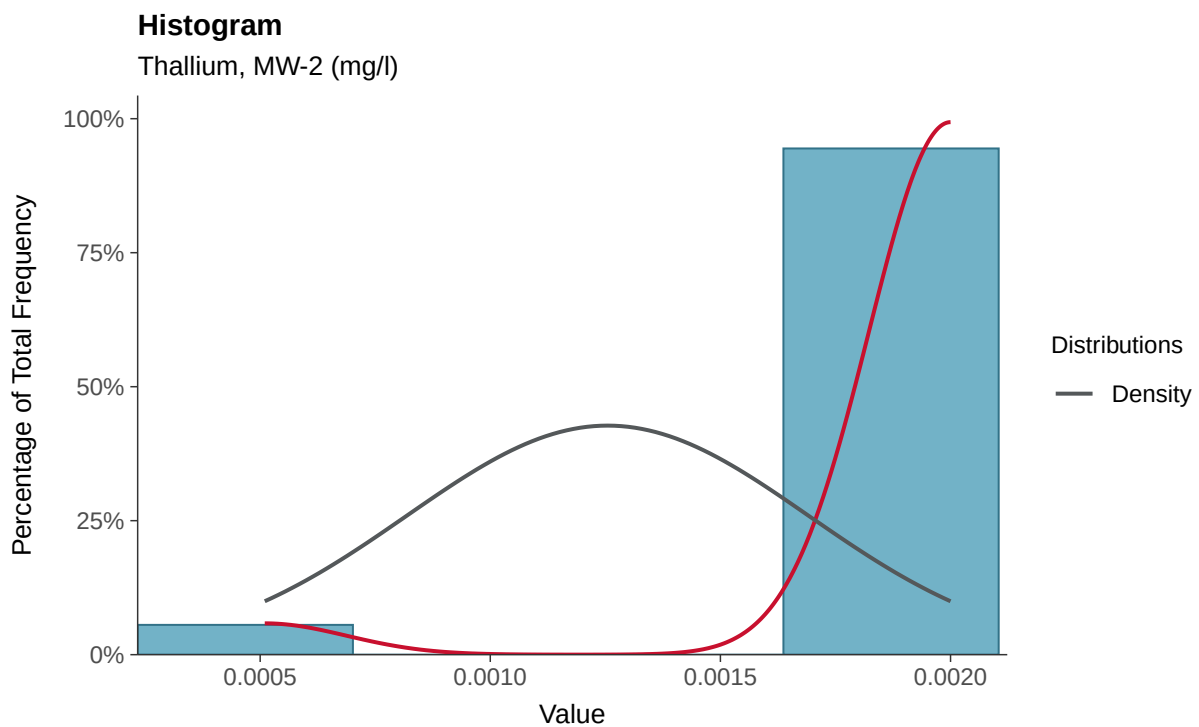
Normal Q-Q plot using ROS Imputed Estimates

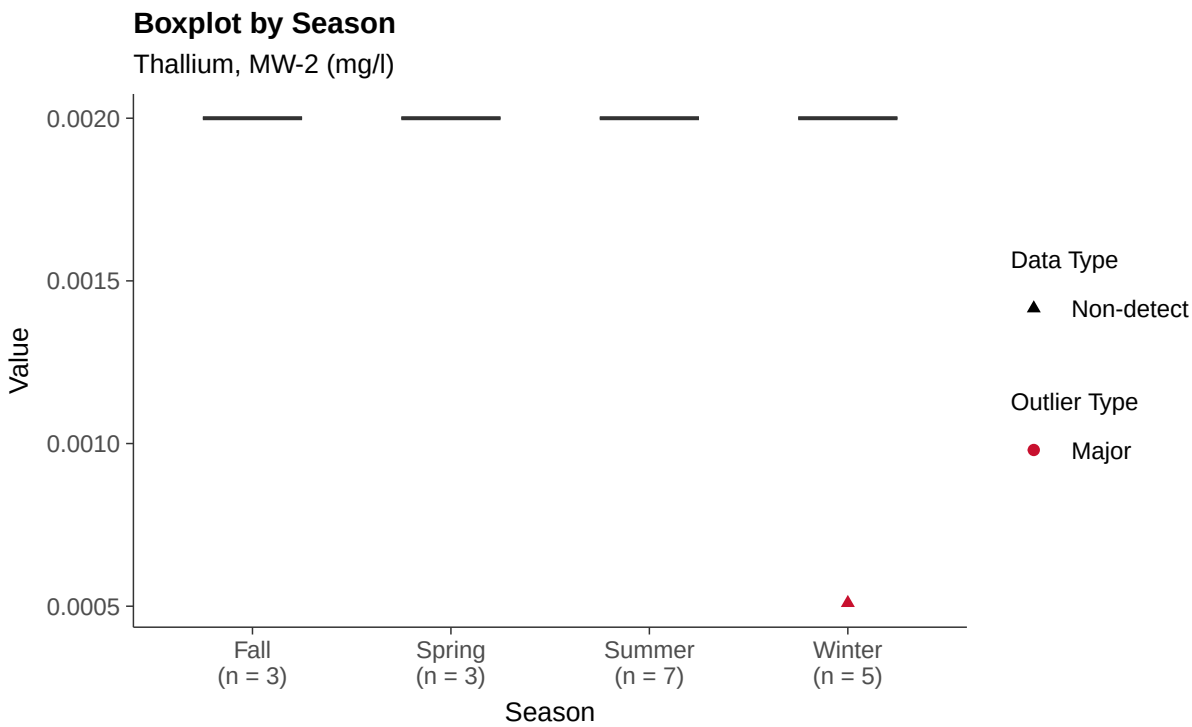
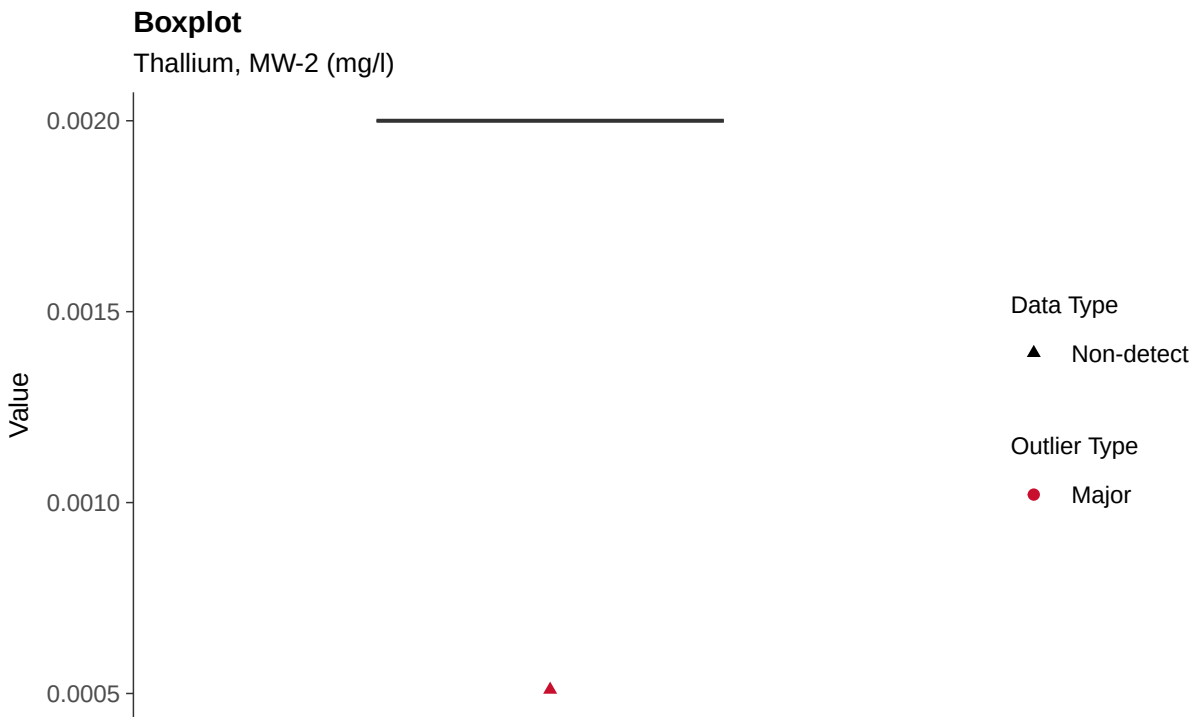
Radium-226+228, MW-2 (pci/l)







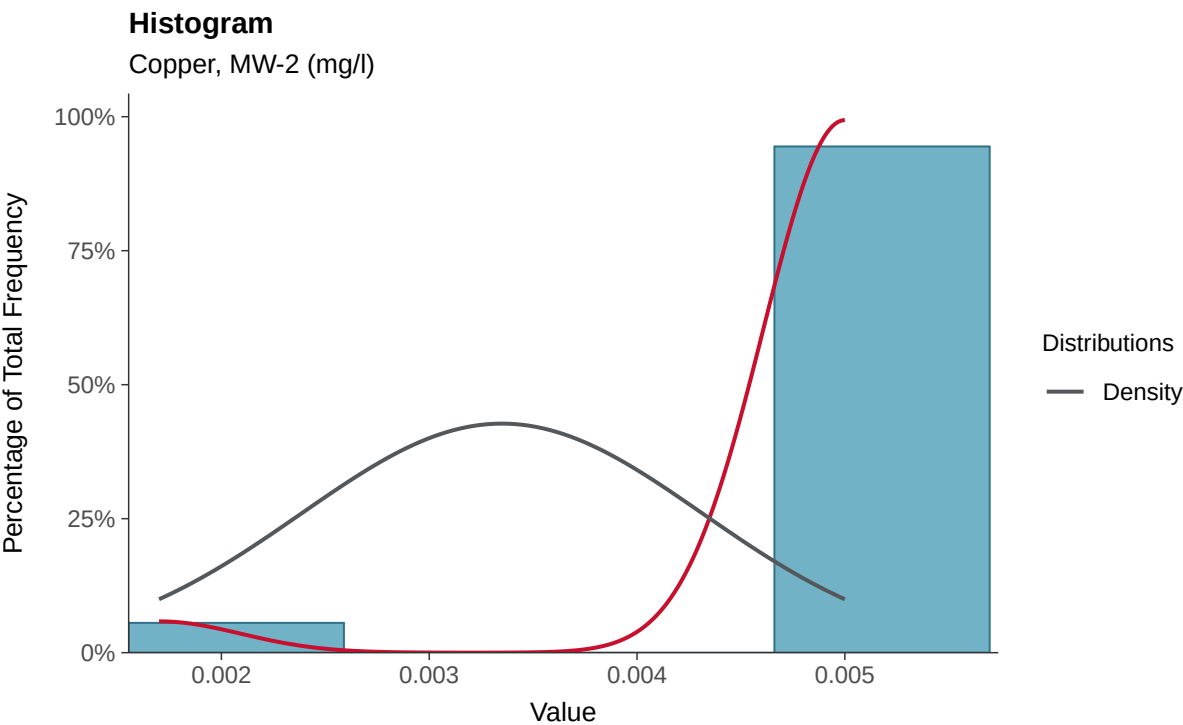
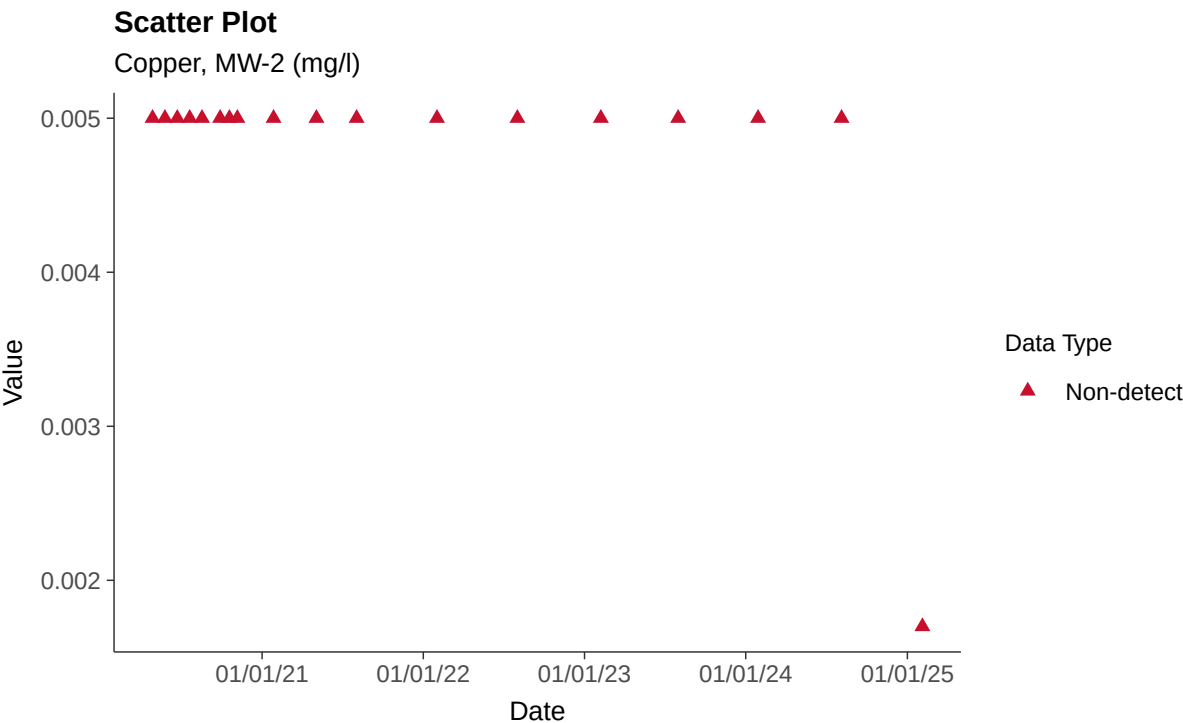


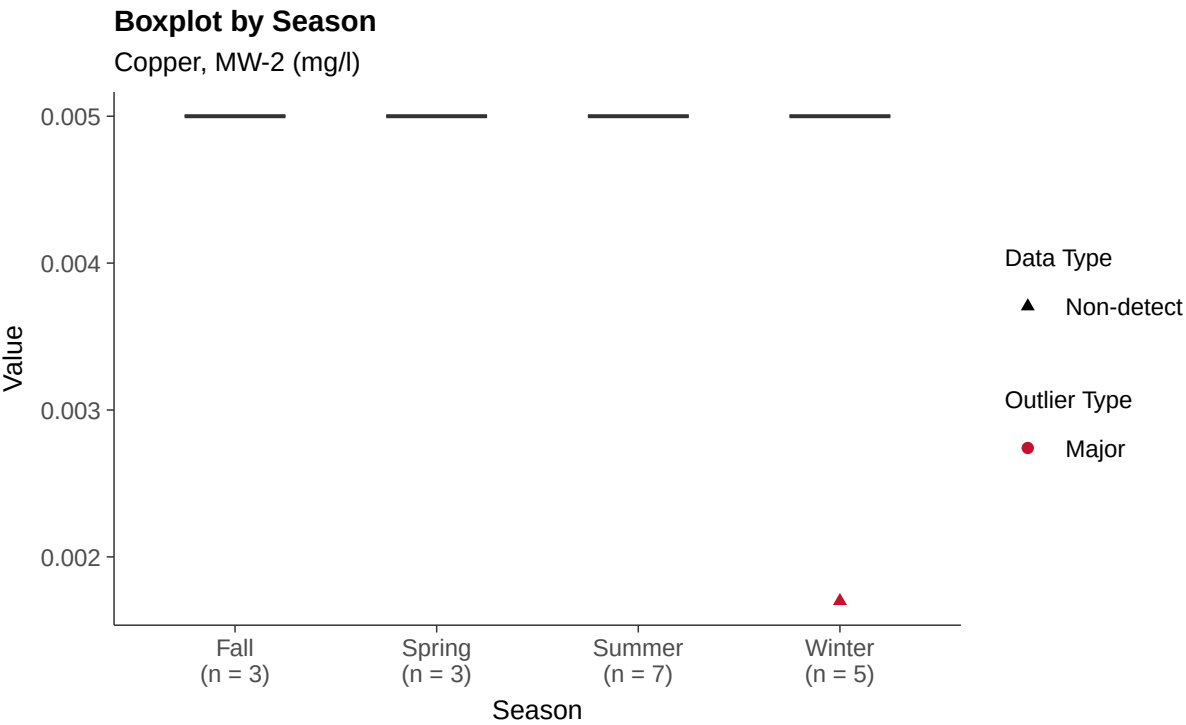
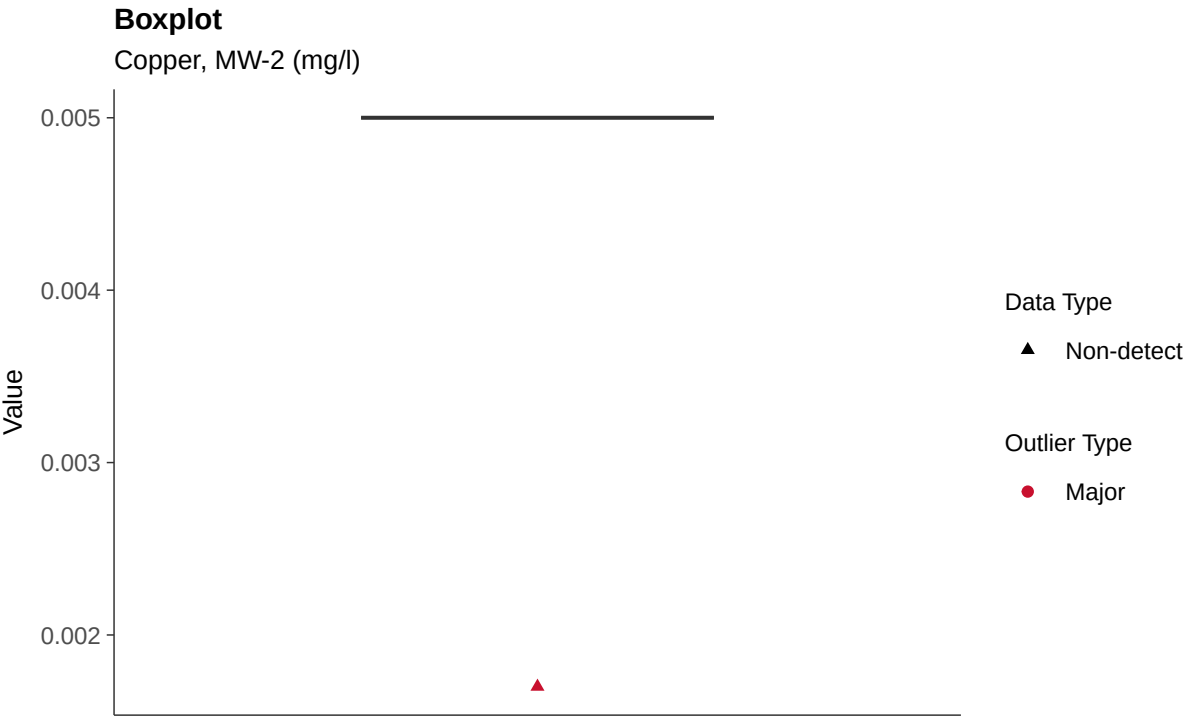


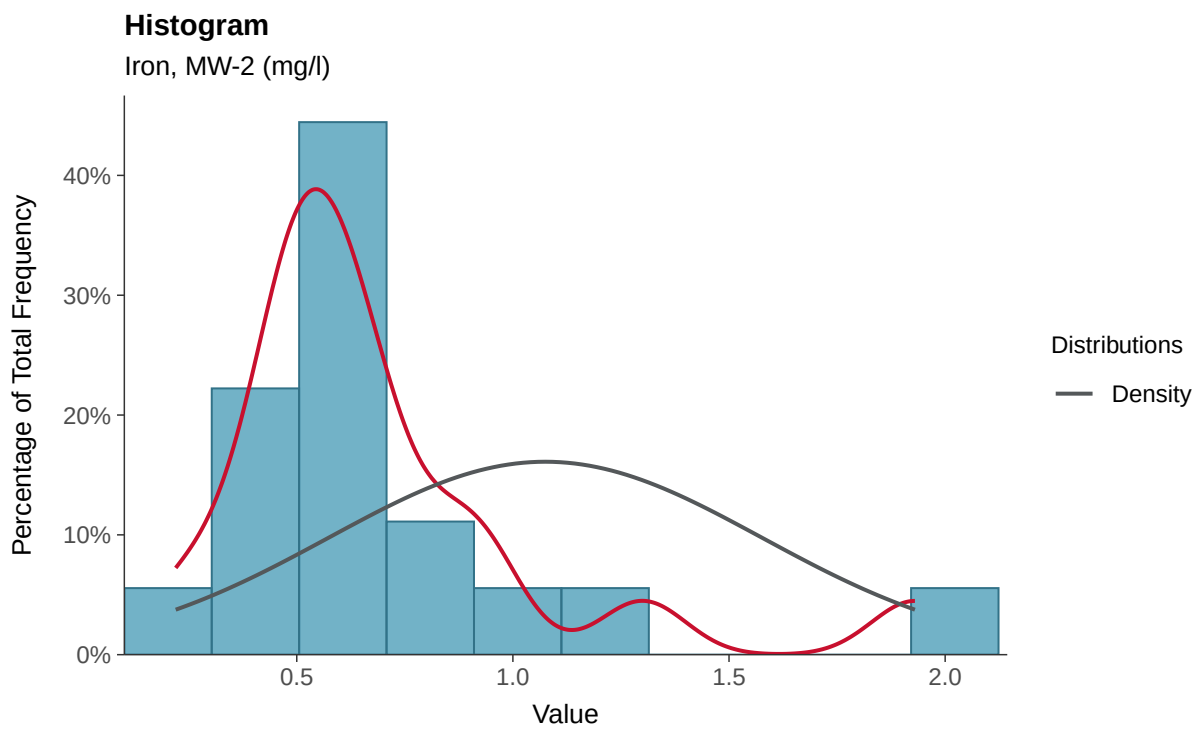


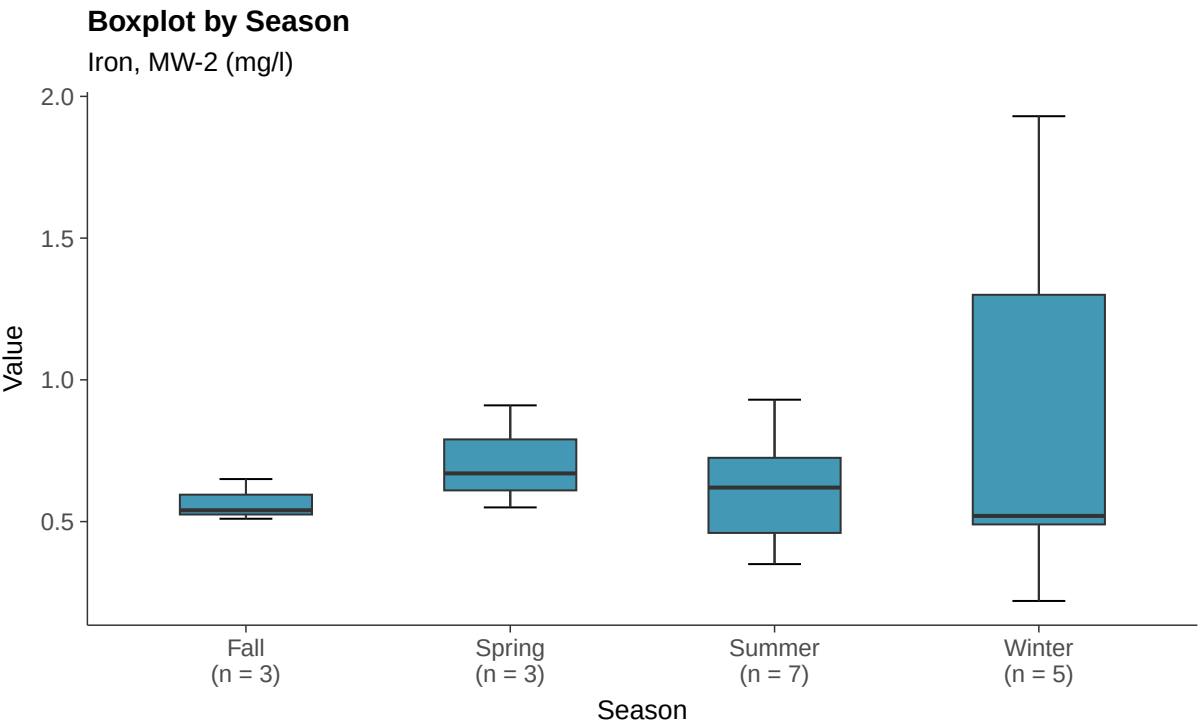
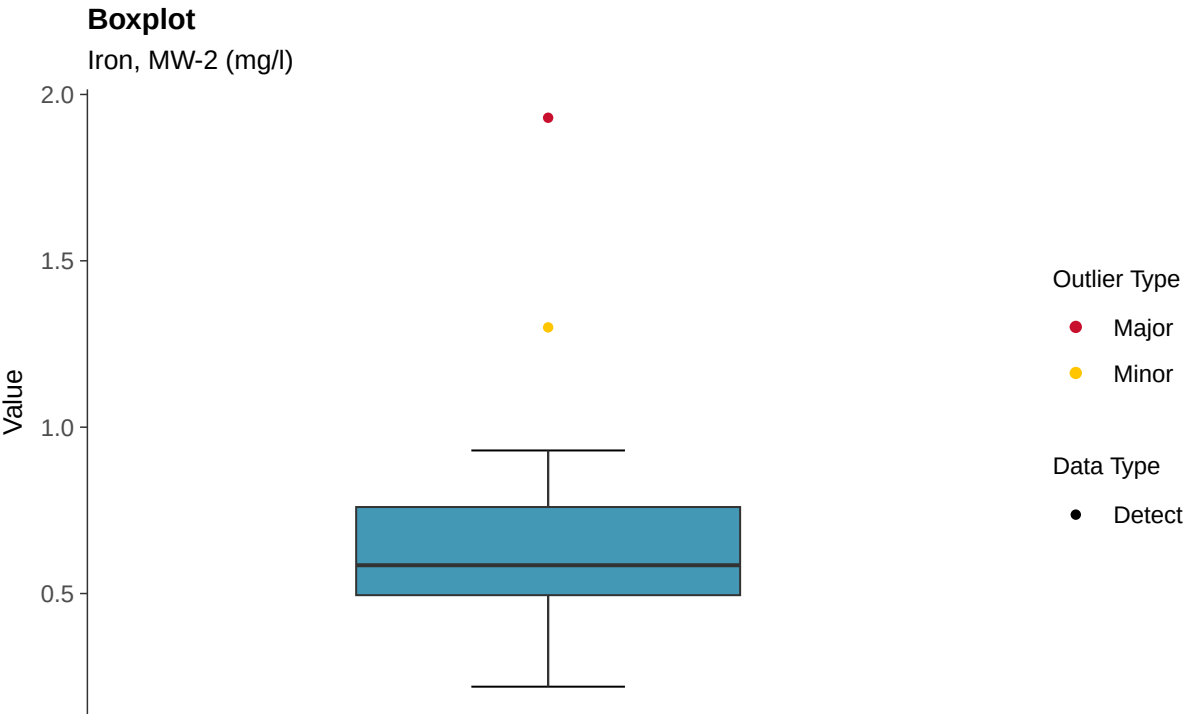
Part 115: Copper, MW-2

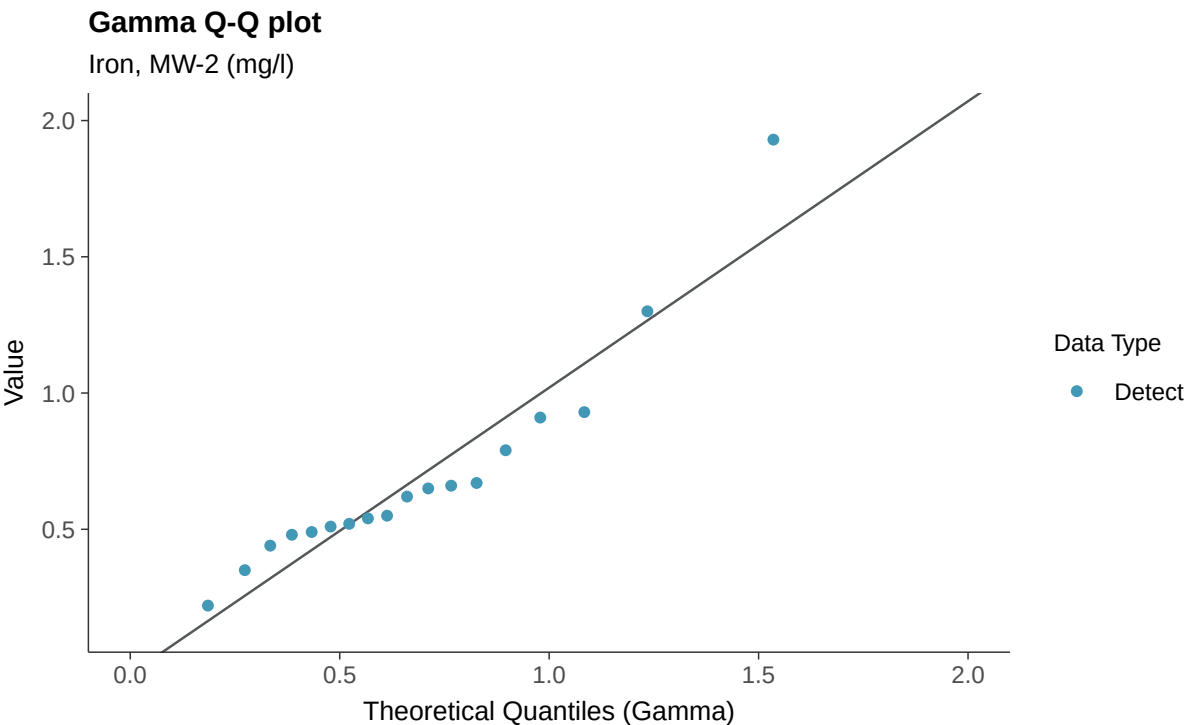
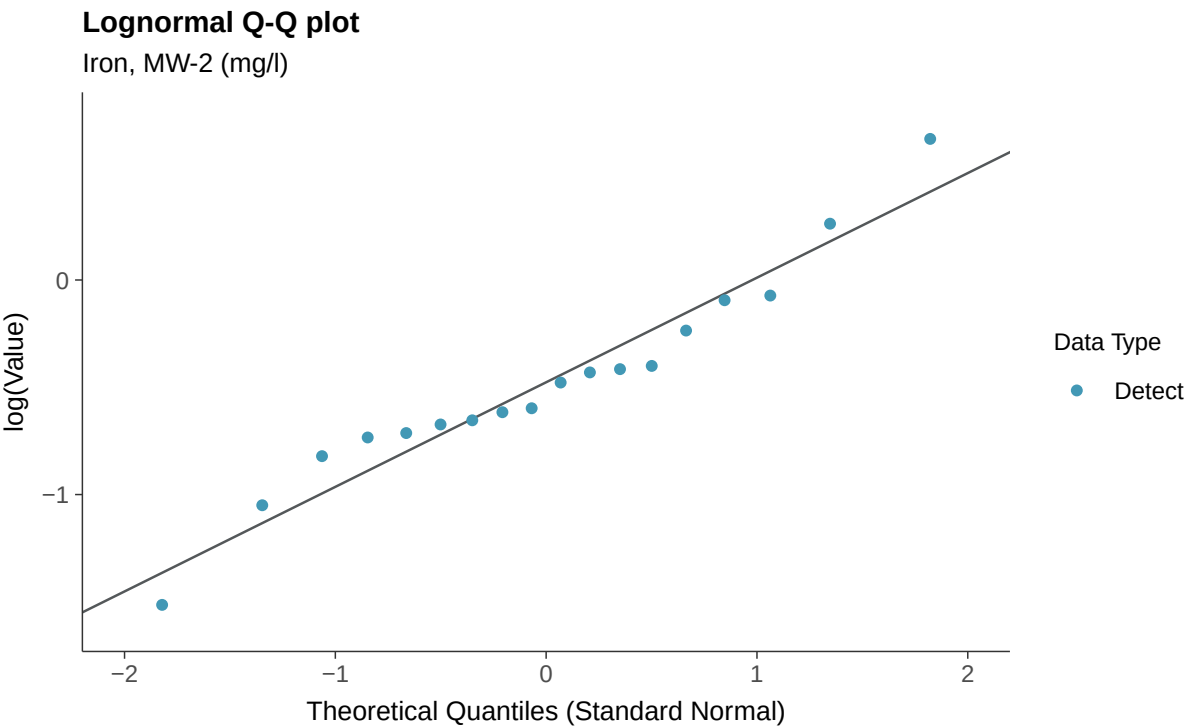
ID: 11_5_111







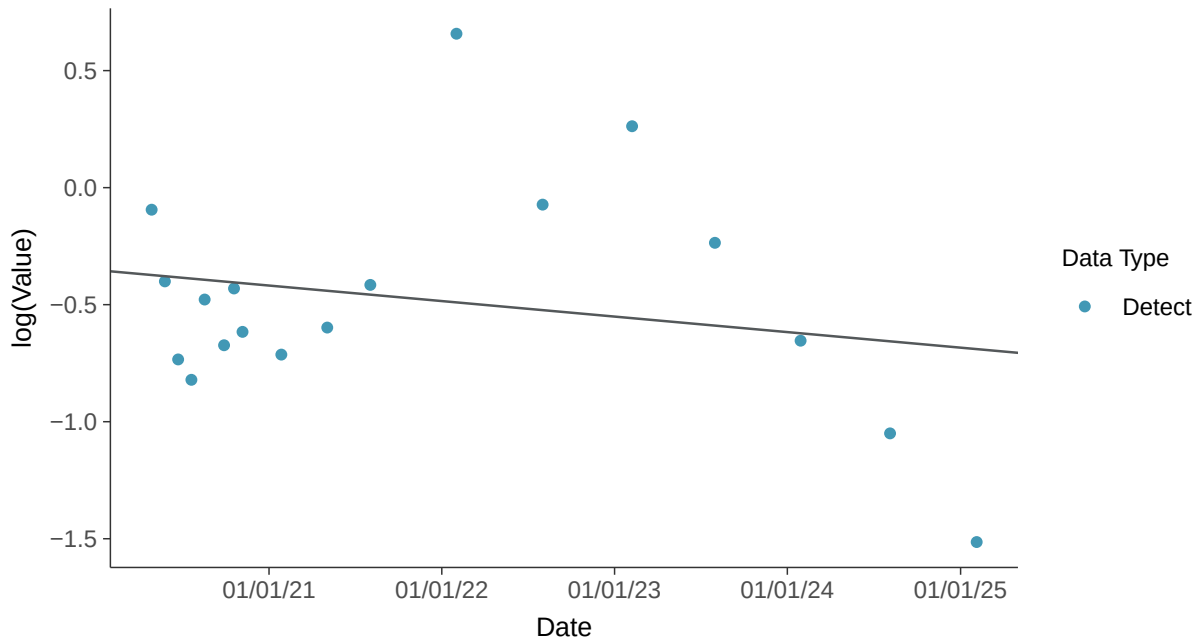






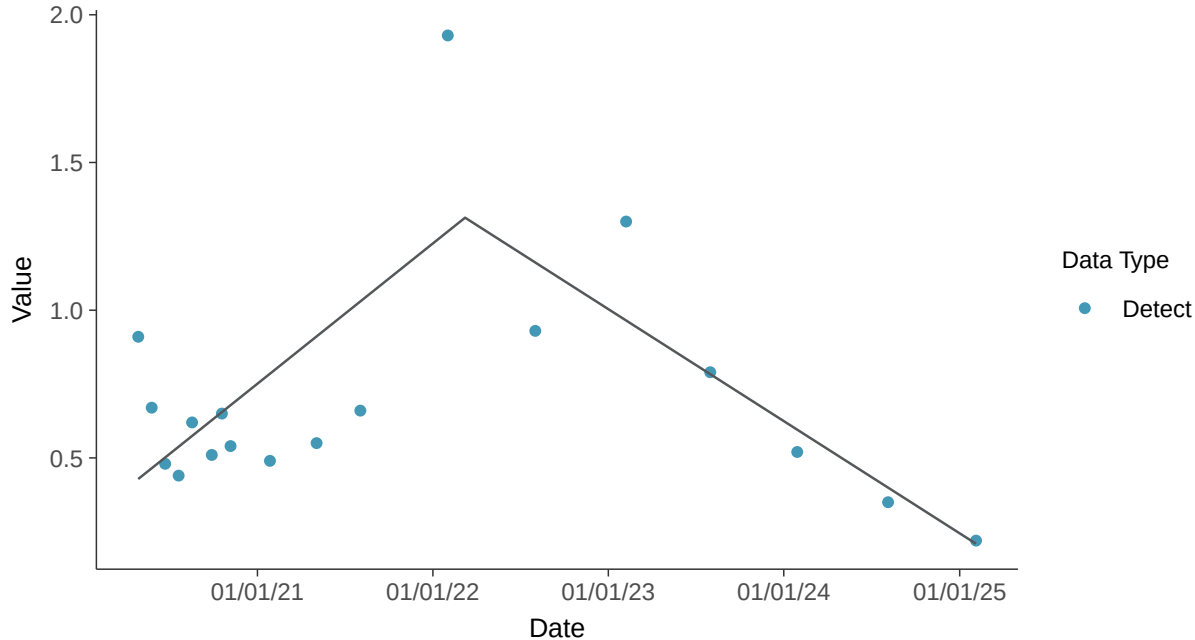
Trend Regression: Lognormal MLE

Iron, MW-2 (mg/l)



Trend Regression: Piecewise Linear-Linear

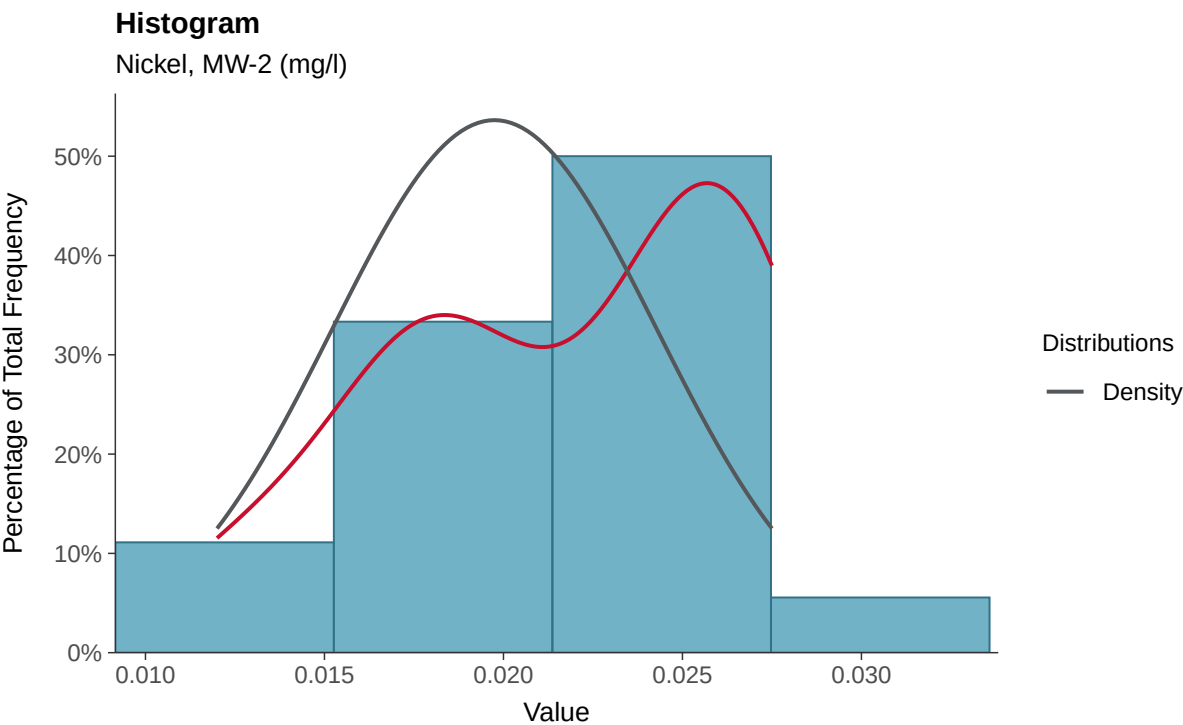
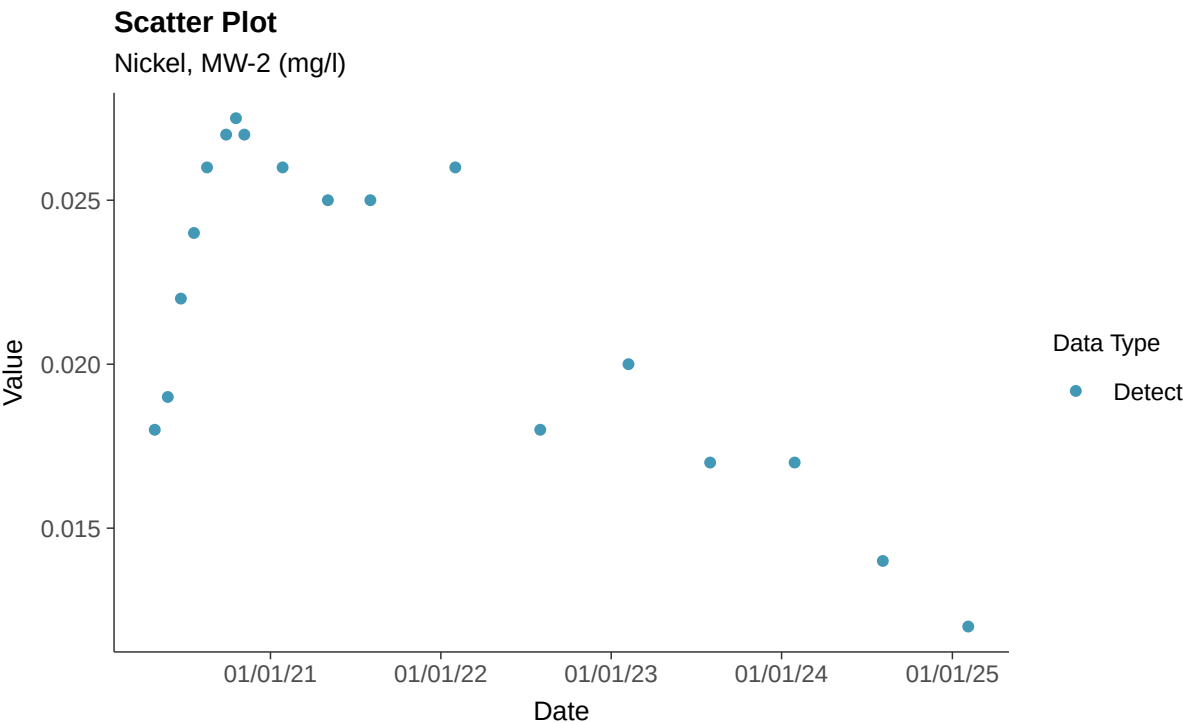
Iron, MW-2 (mg/l)

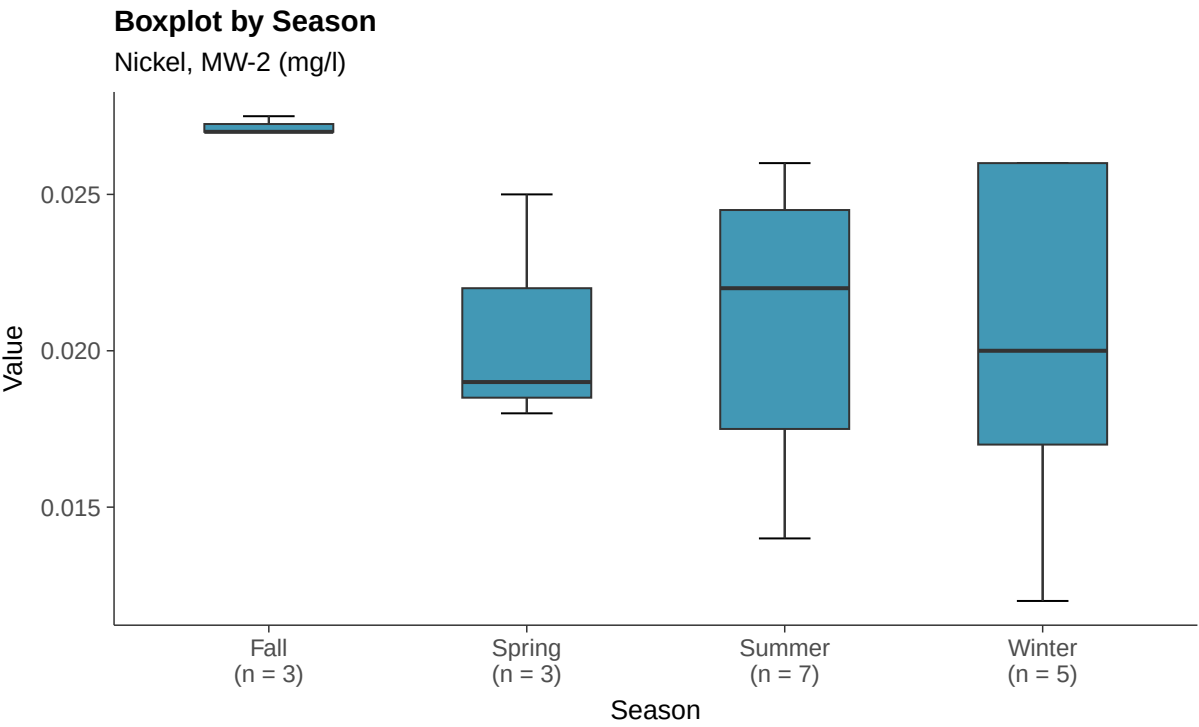
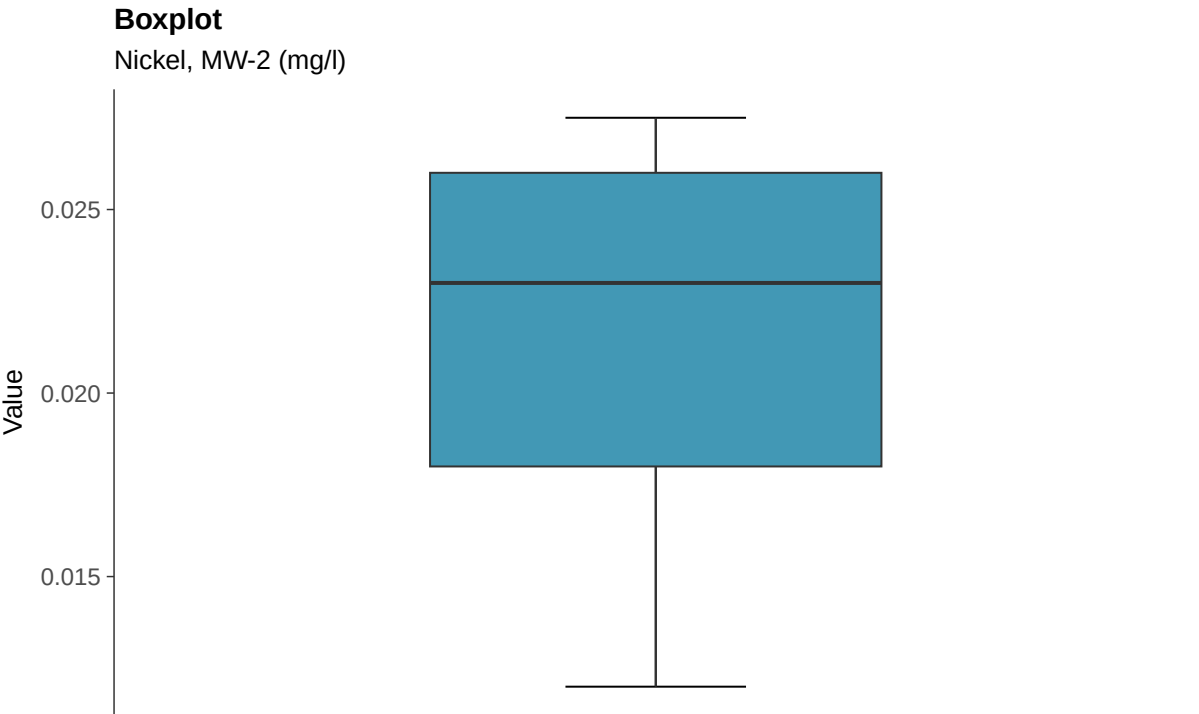


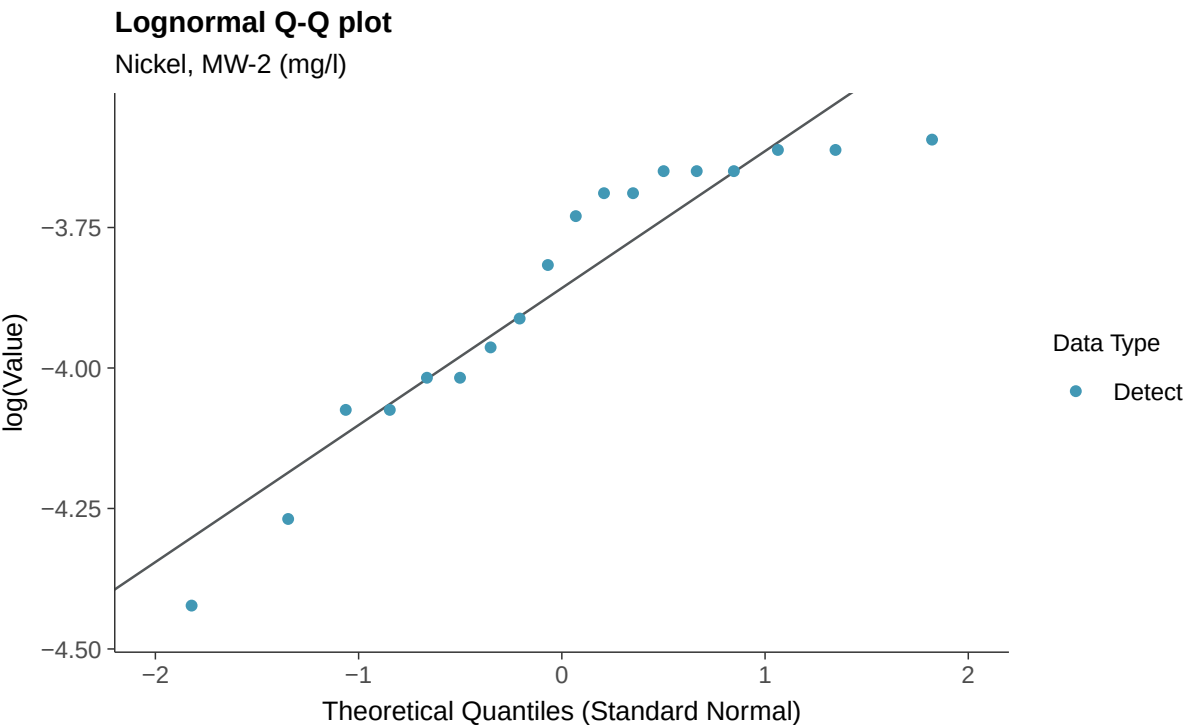
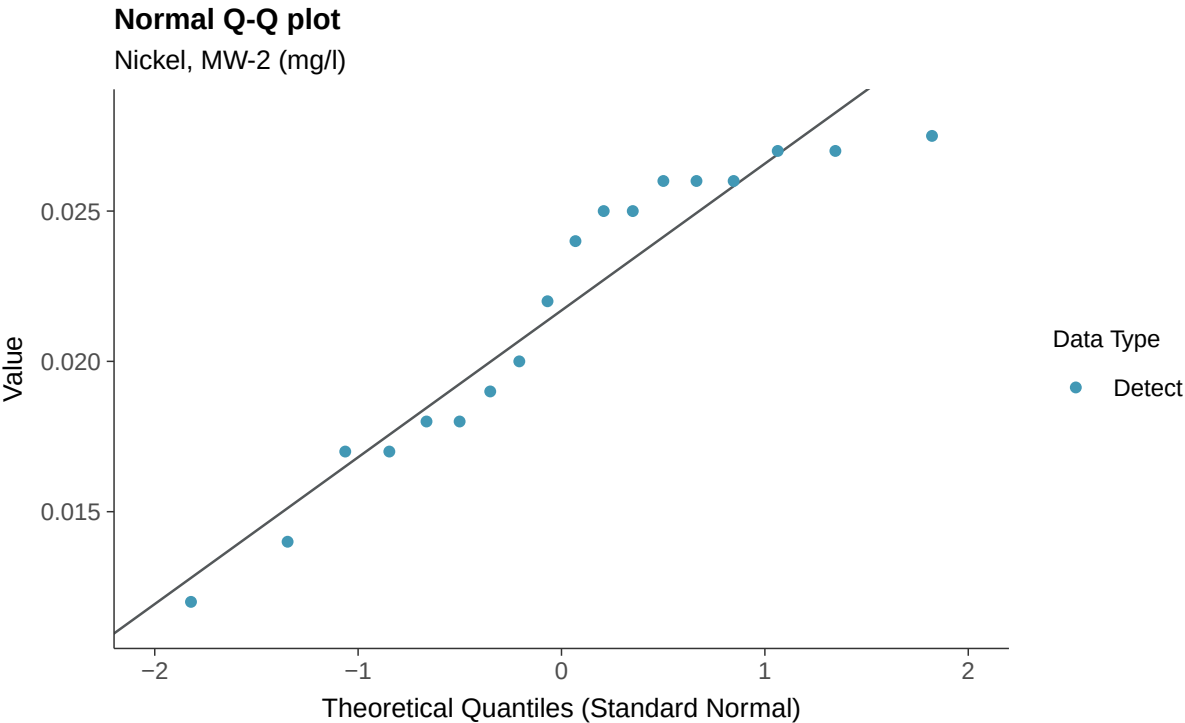


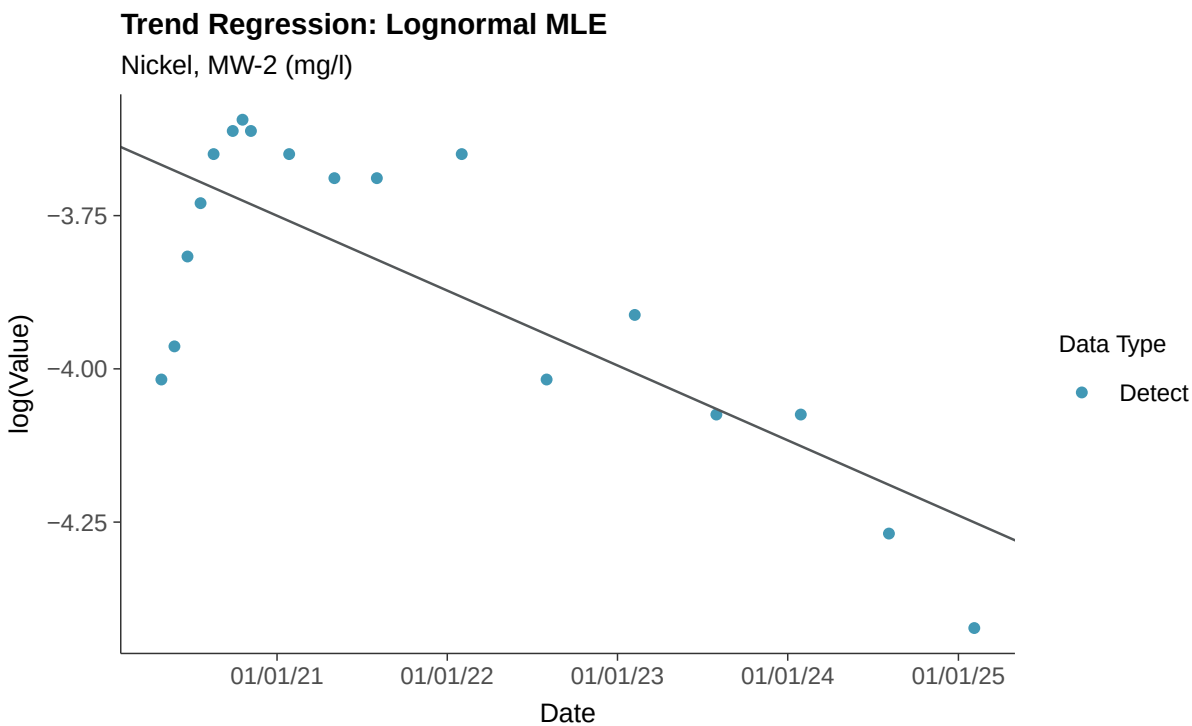
Part 115: Nickel, MW-2

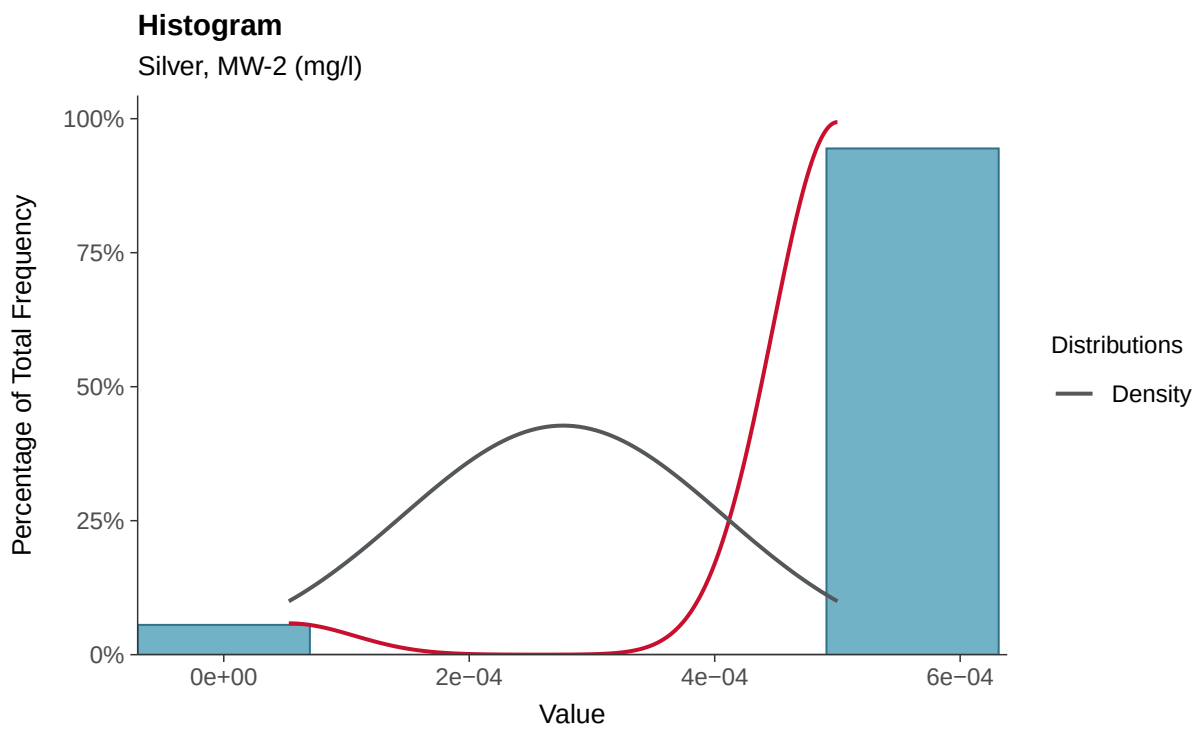
ID: 11_5_119

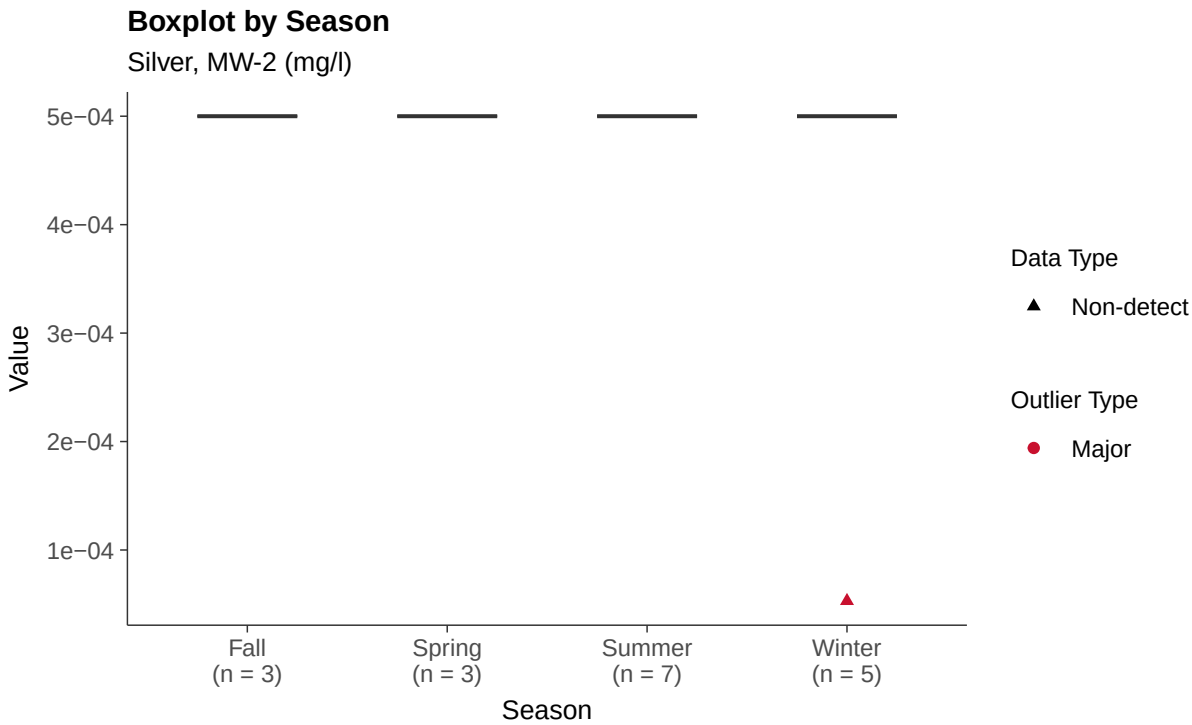
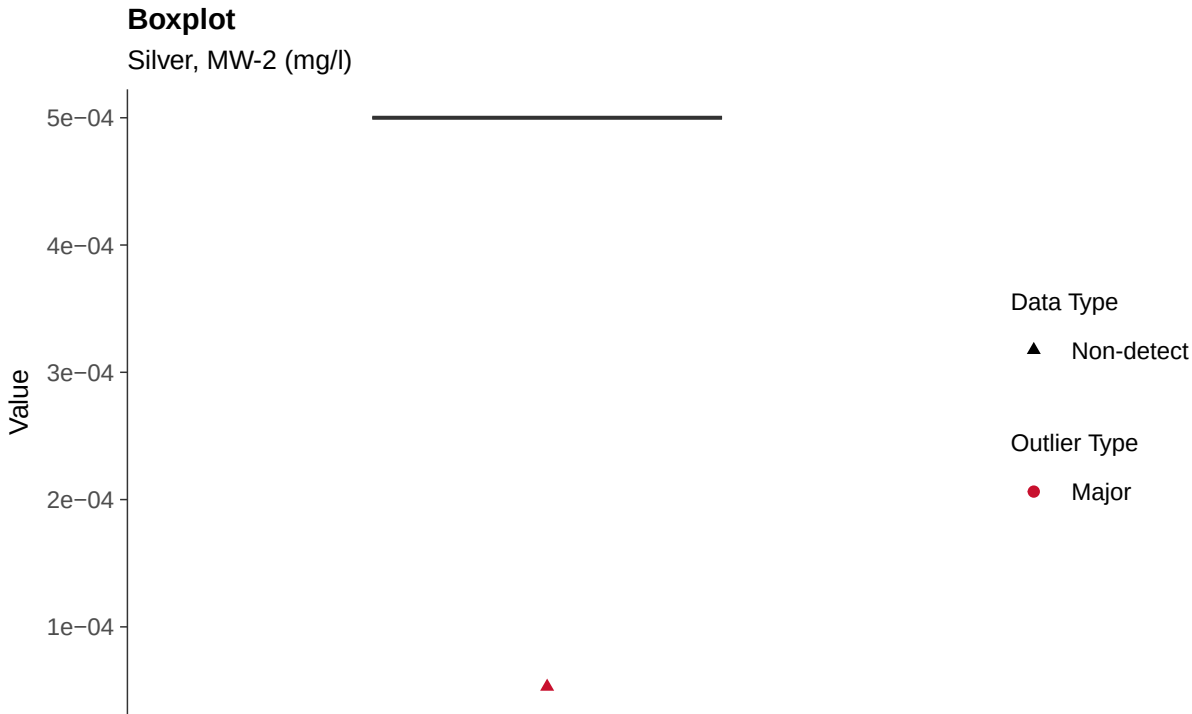








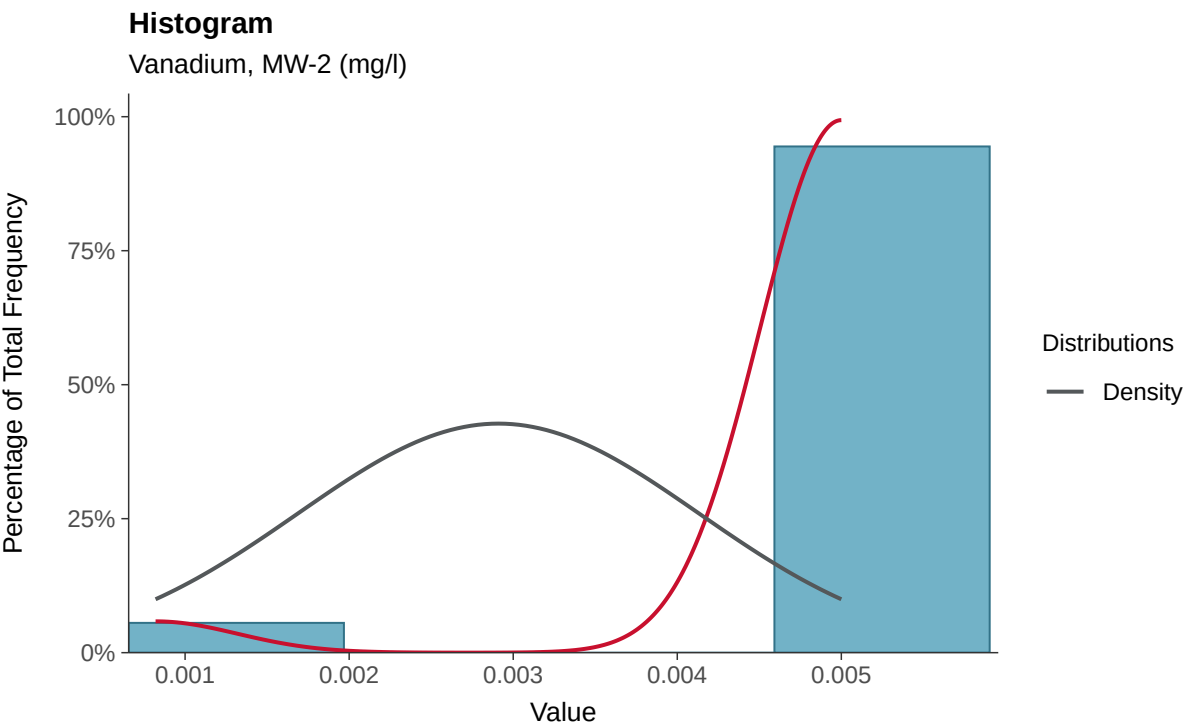
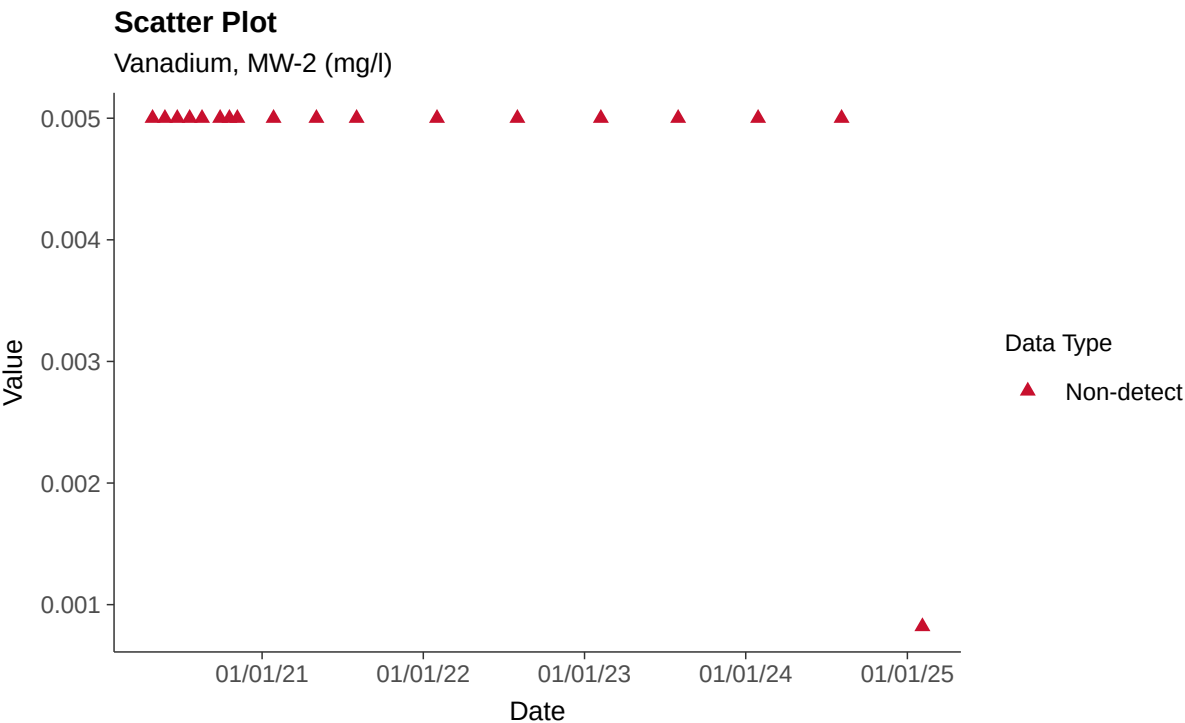


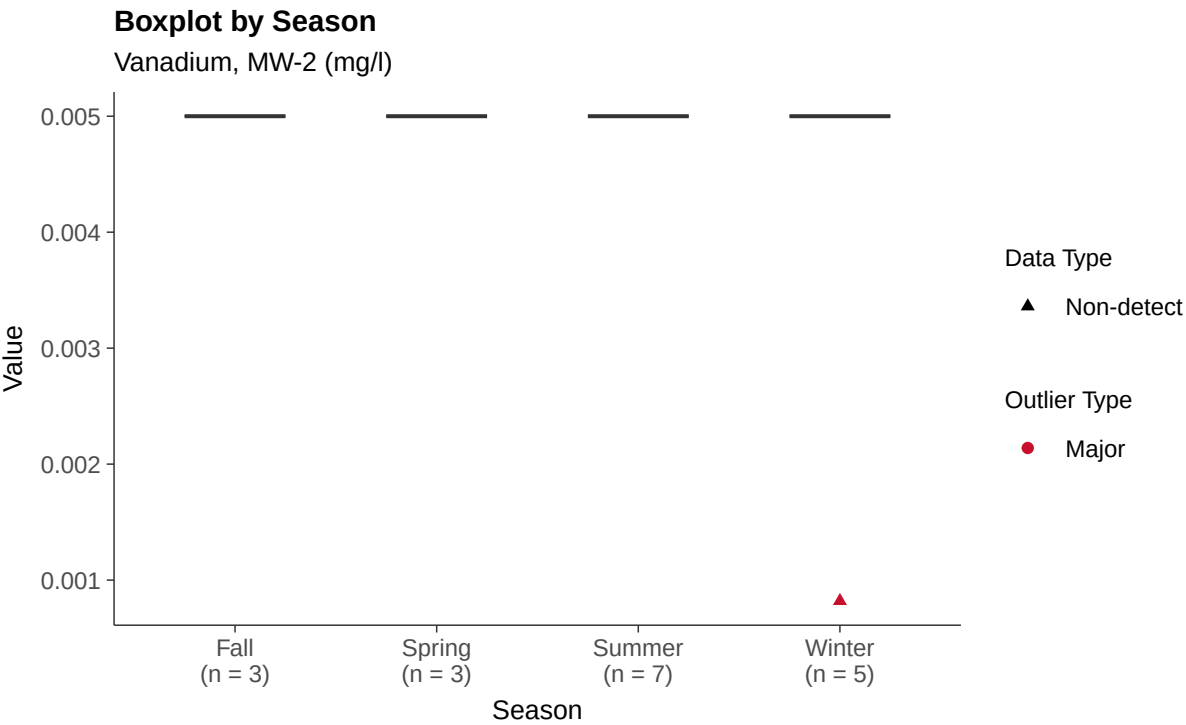
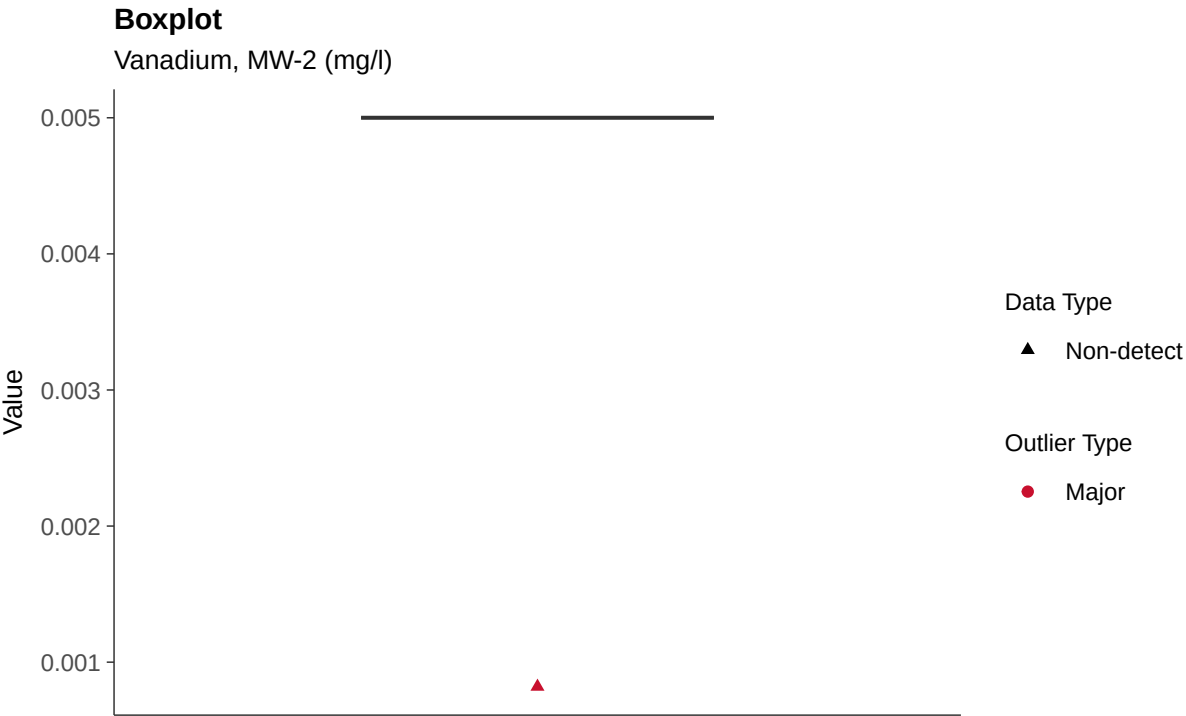


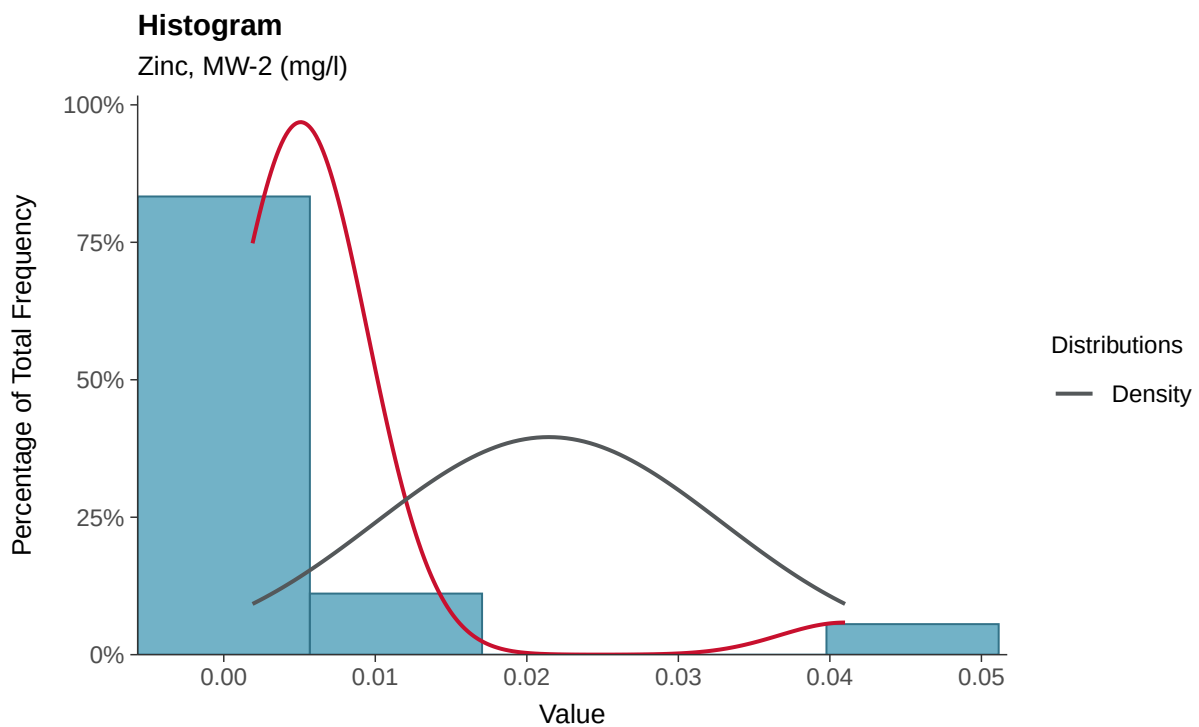


Part 115: Vanadium, MW-2

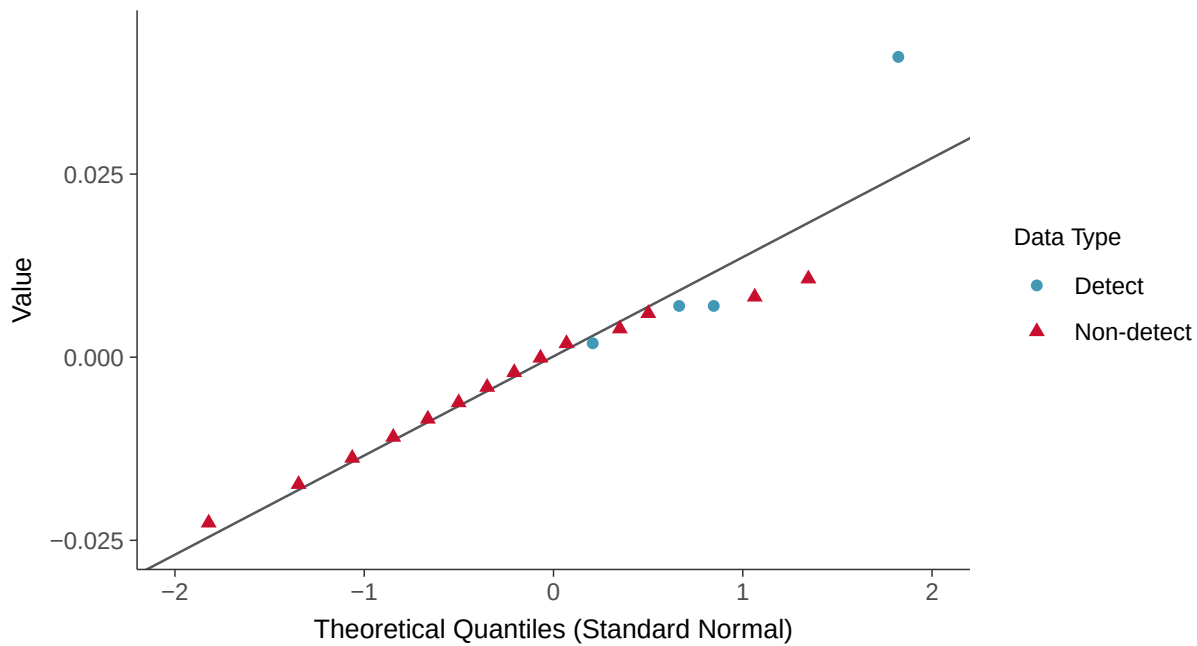
ID: 11_5_128



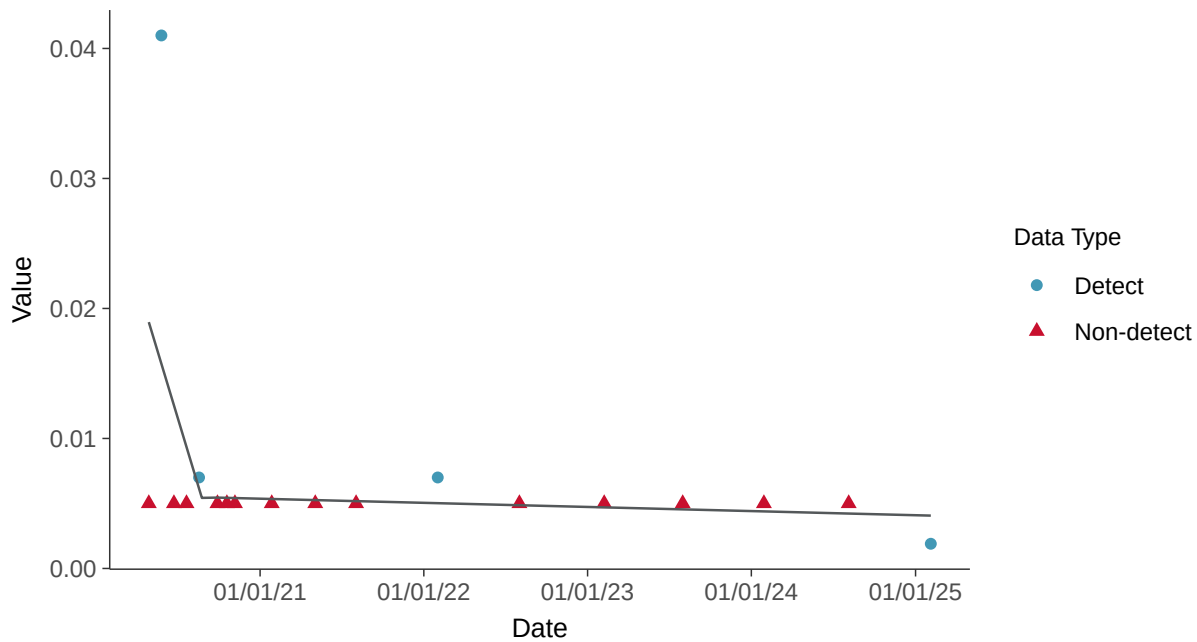




Zinc, MW-2 (mg/l)



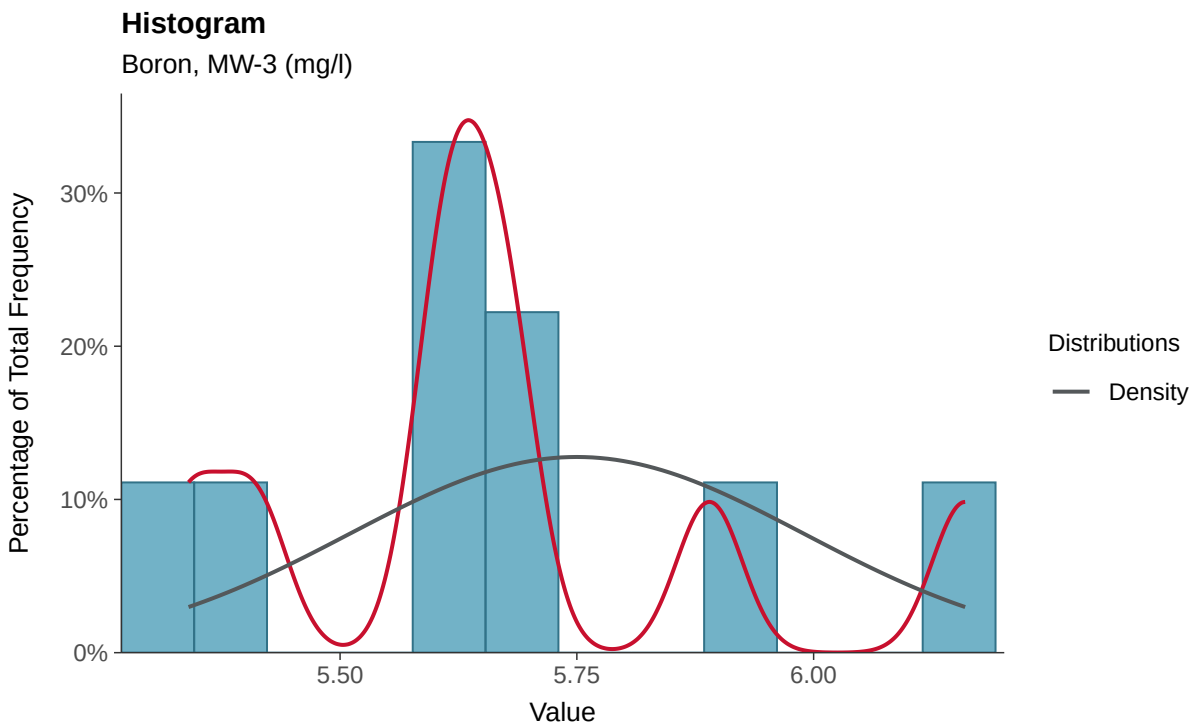
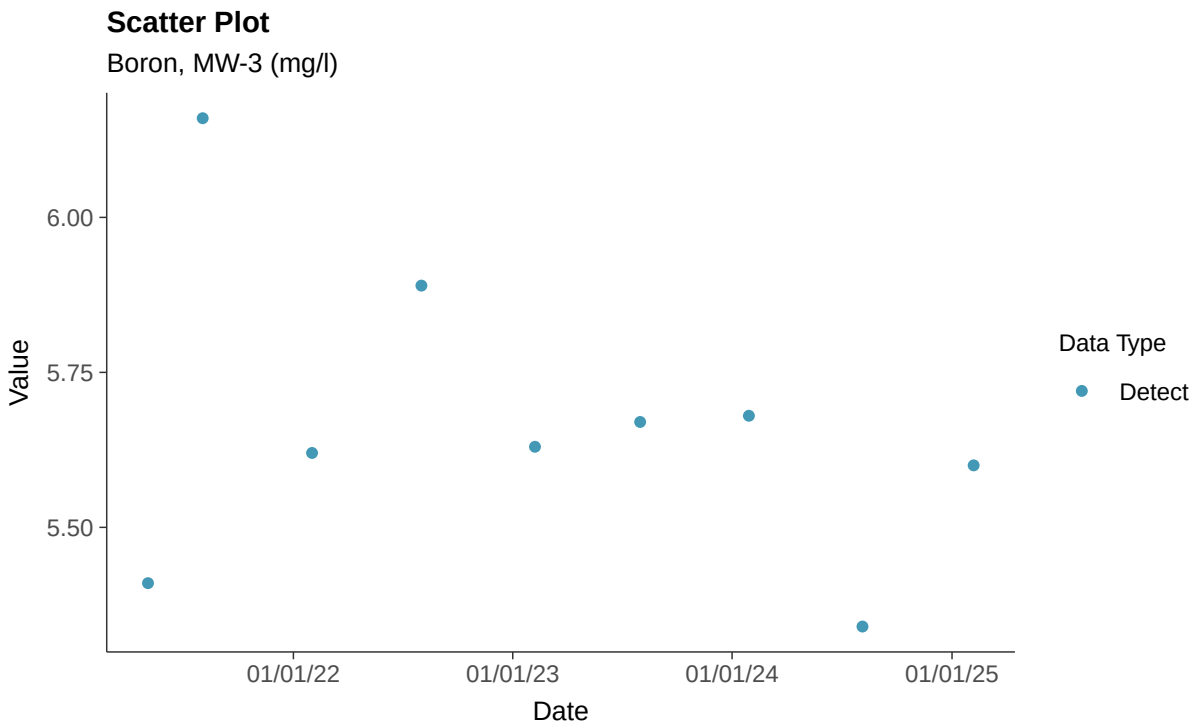
Zinc, MW-2 (mg/l)

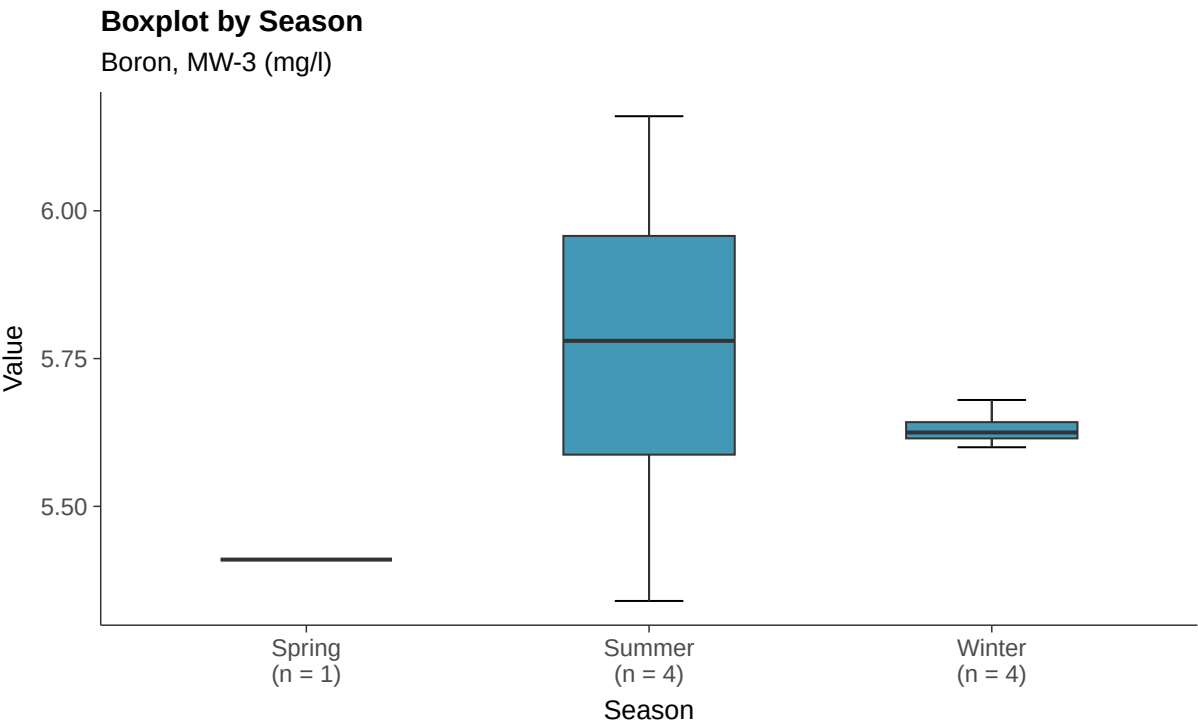
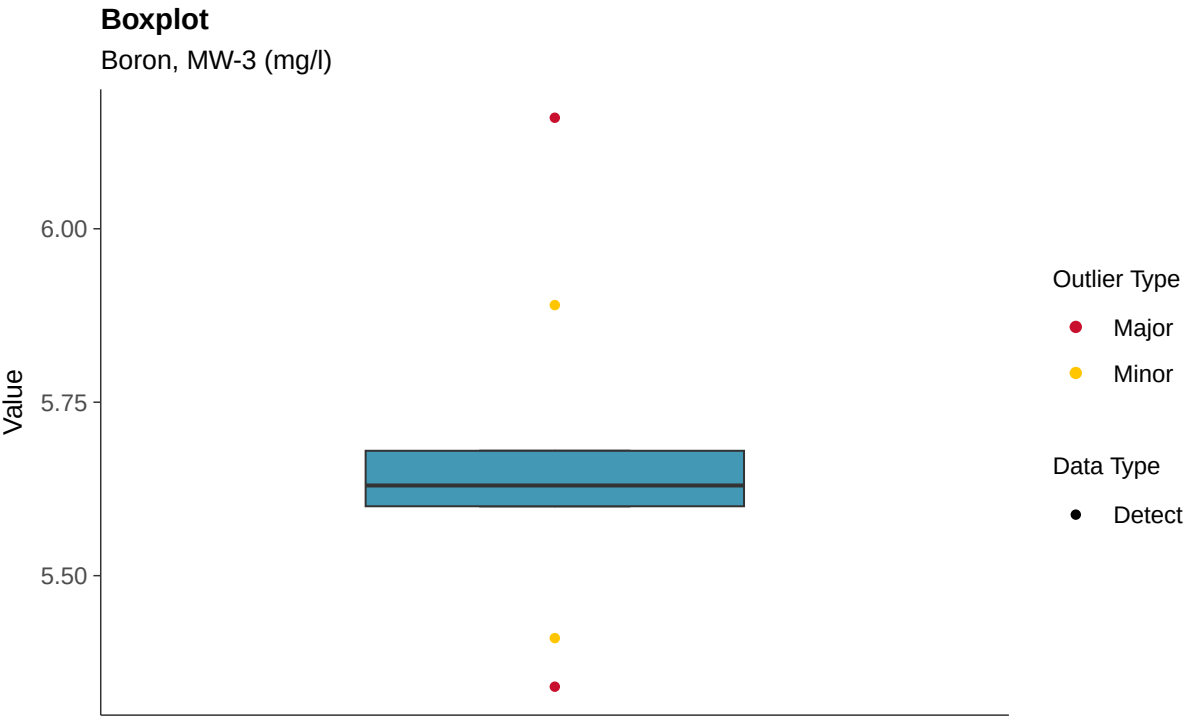


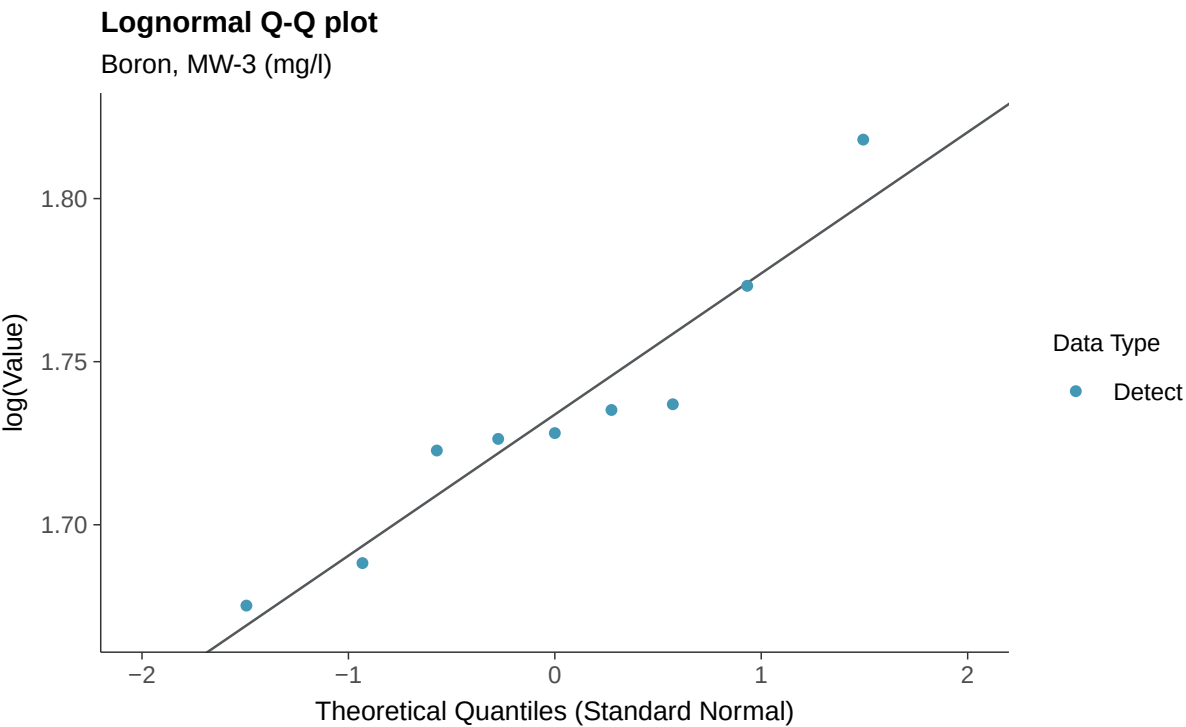
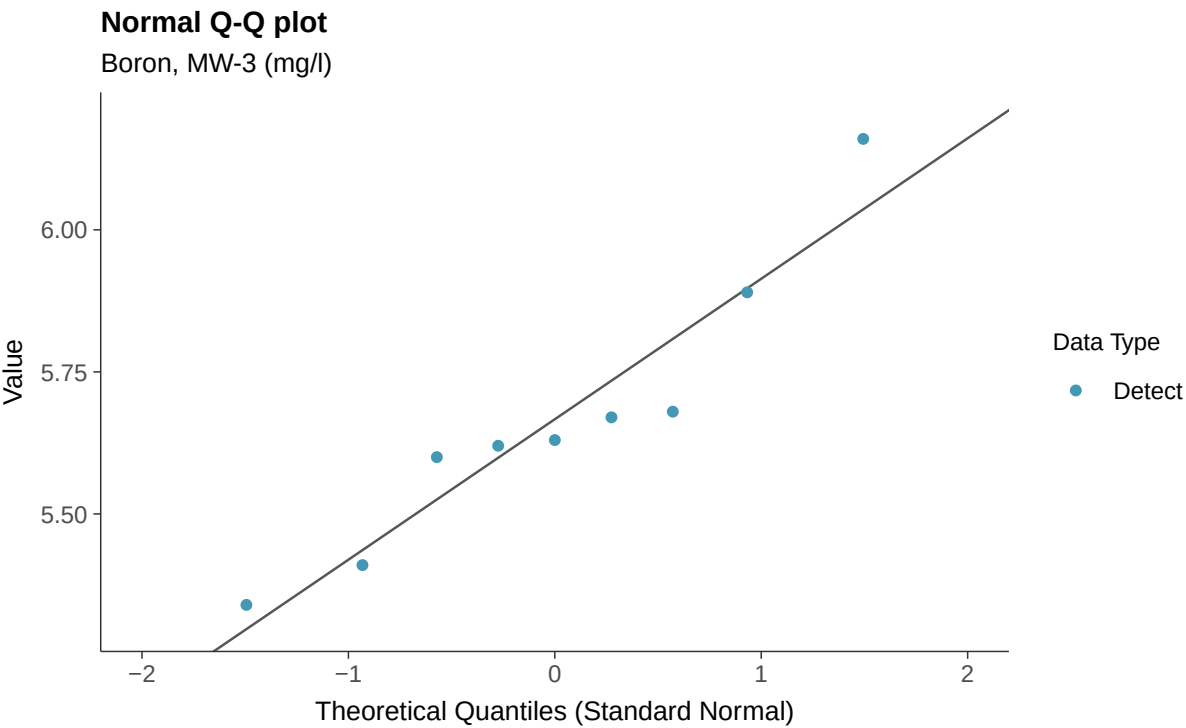


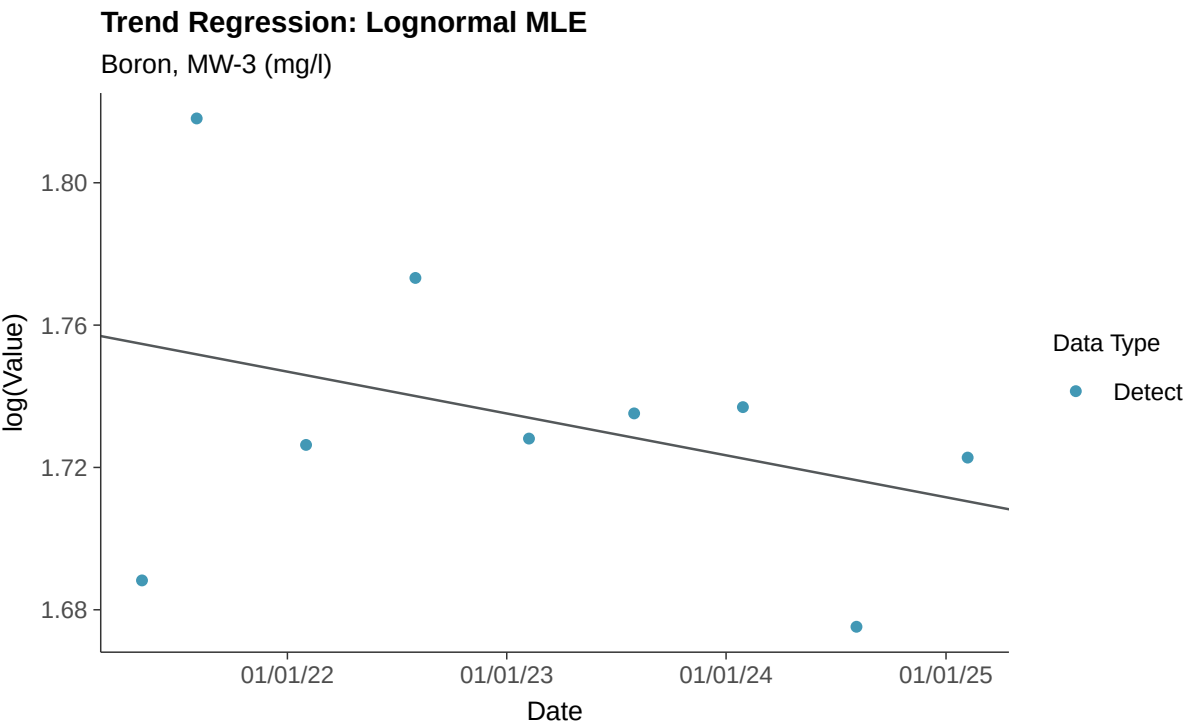
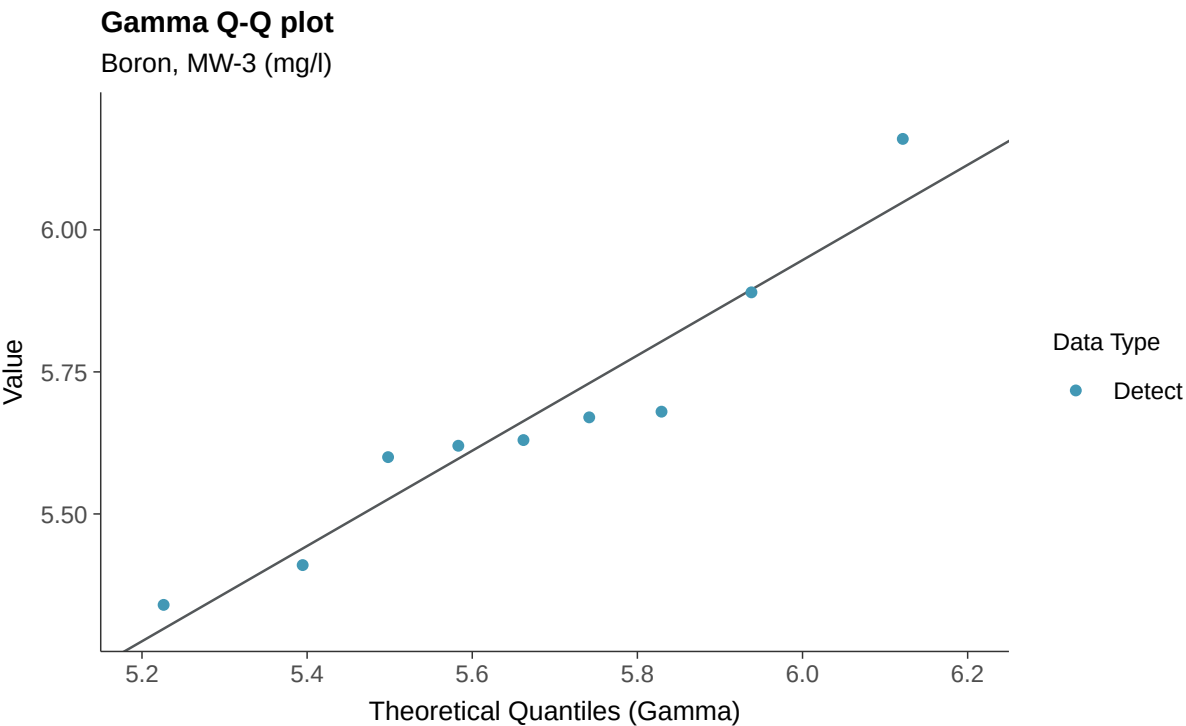
Appendix III: Boron, MW-3

ID: 12_2_105





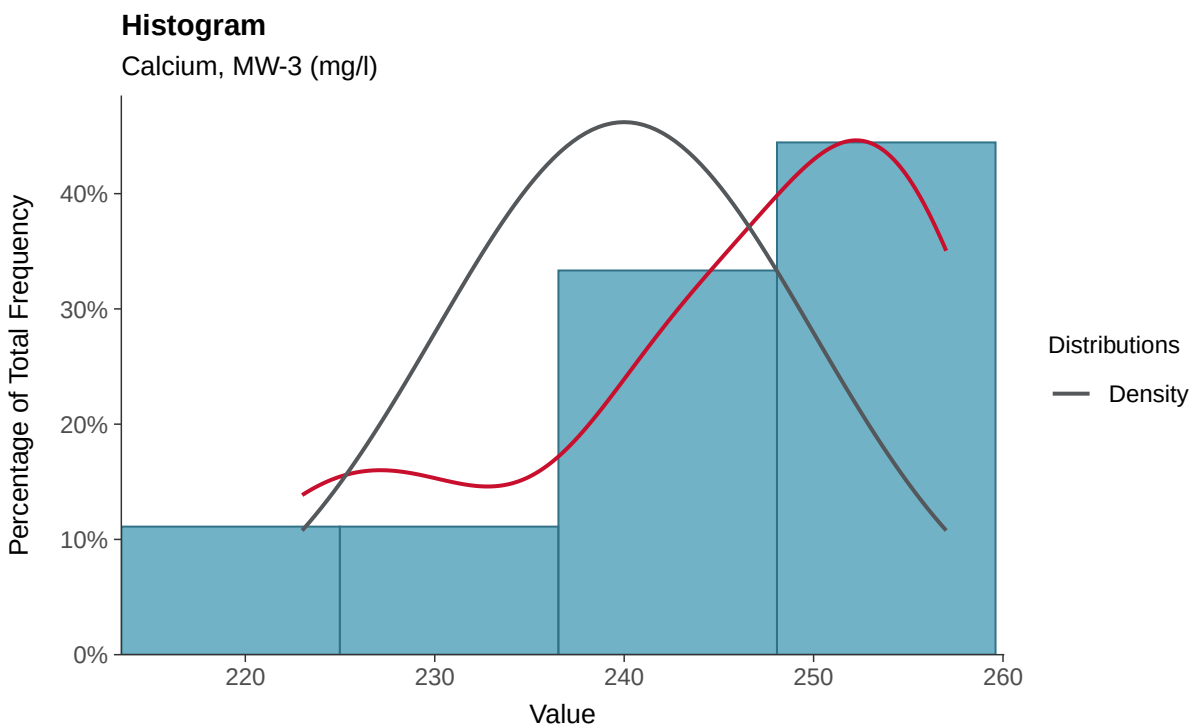
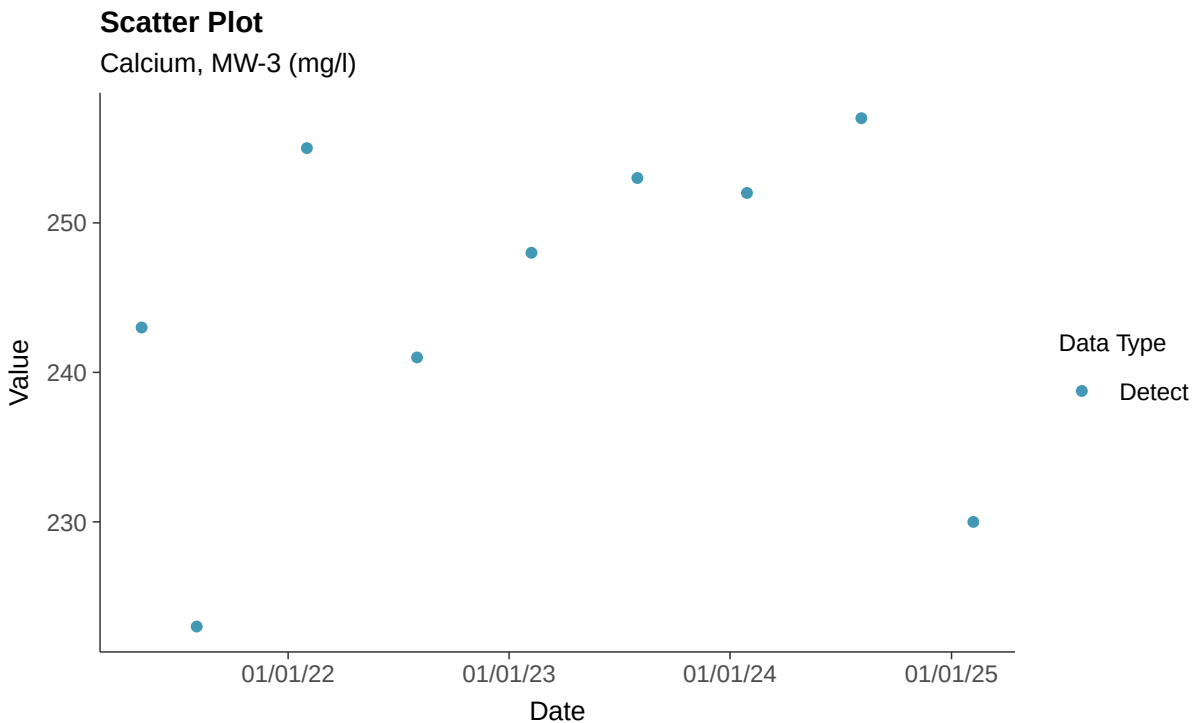


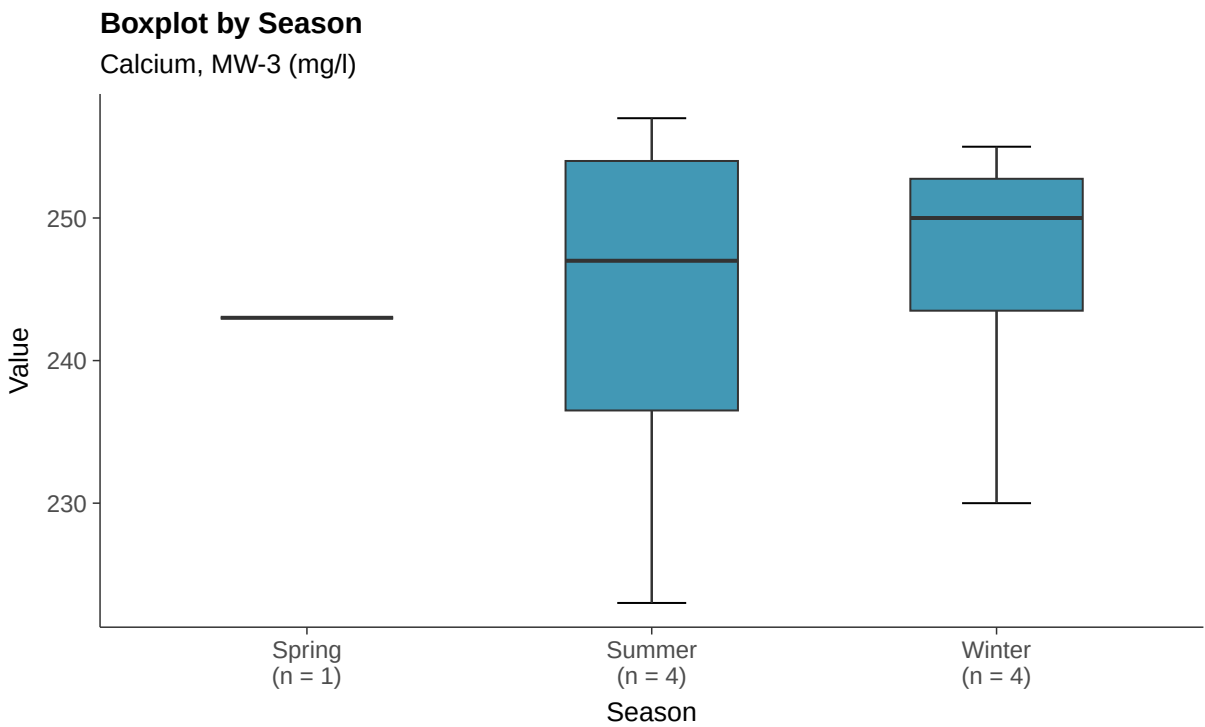
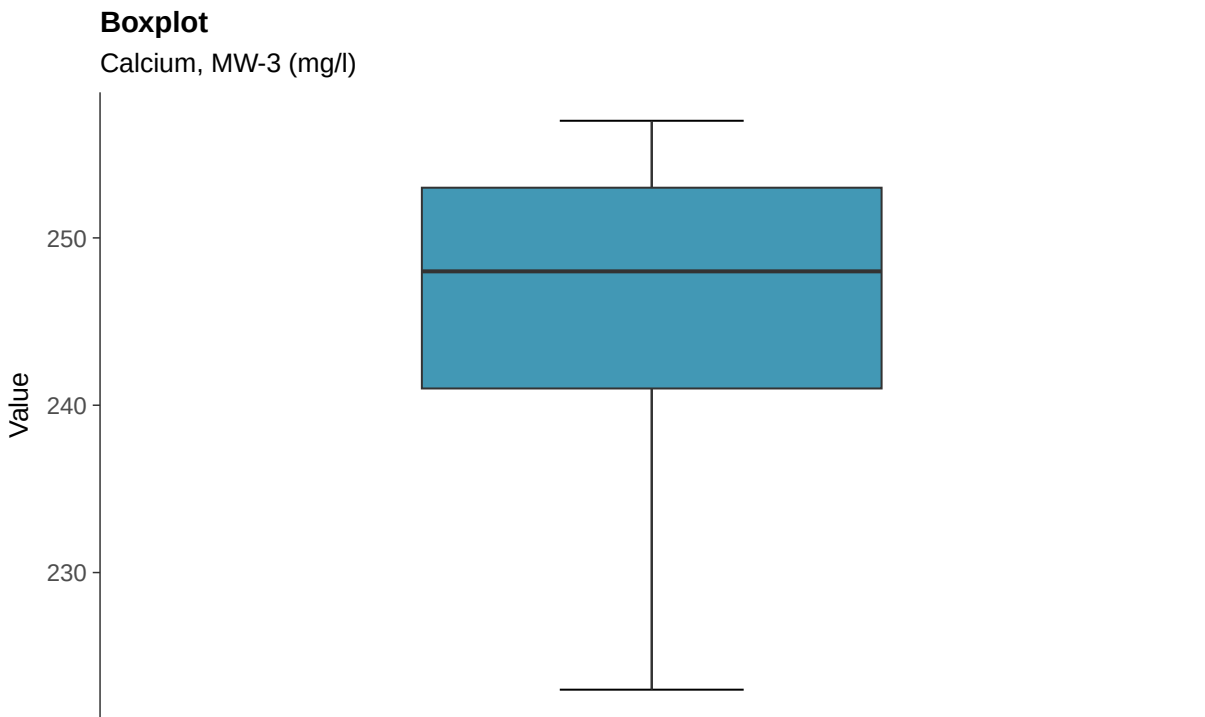


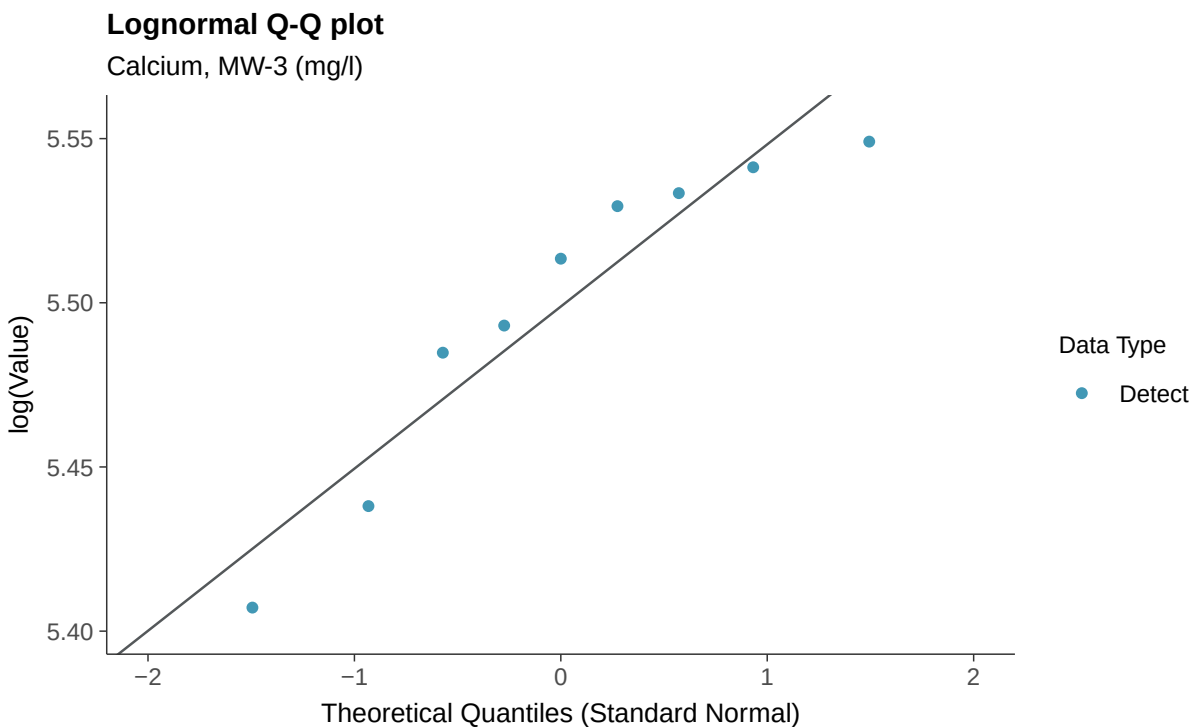
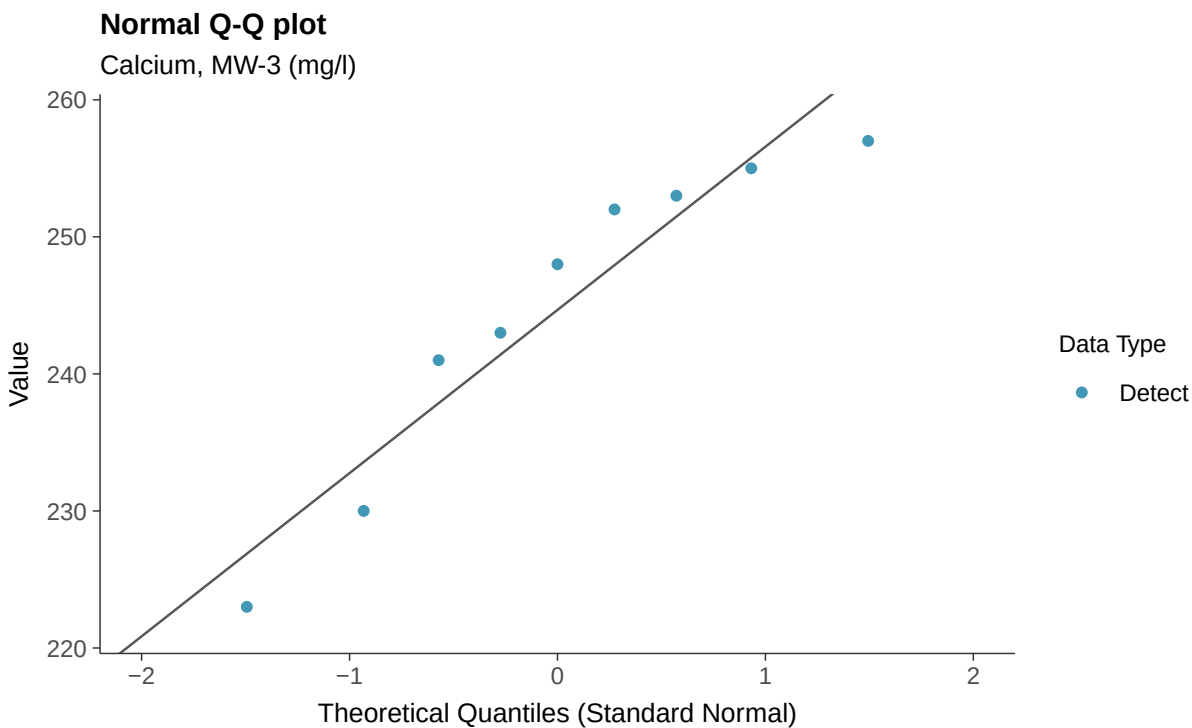


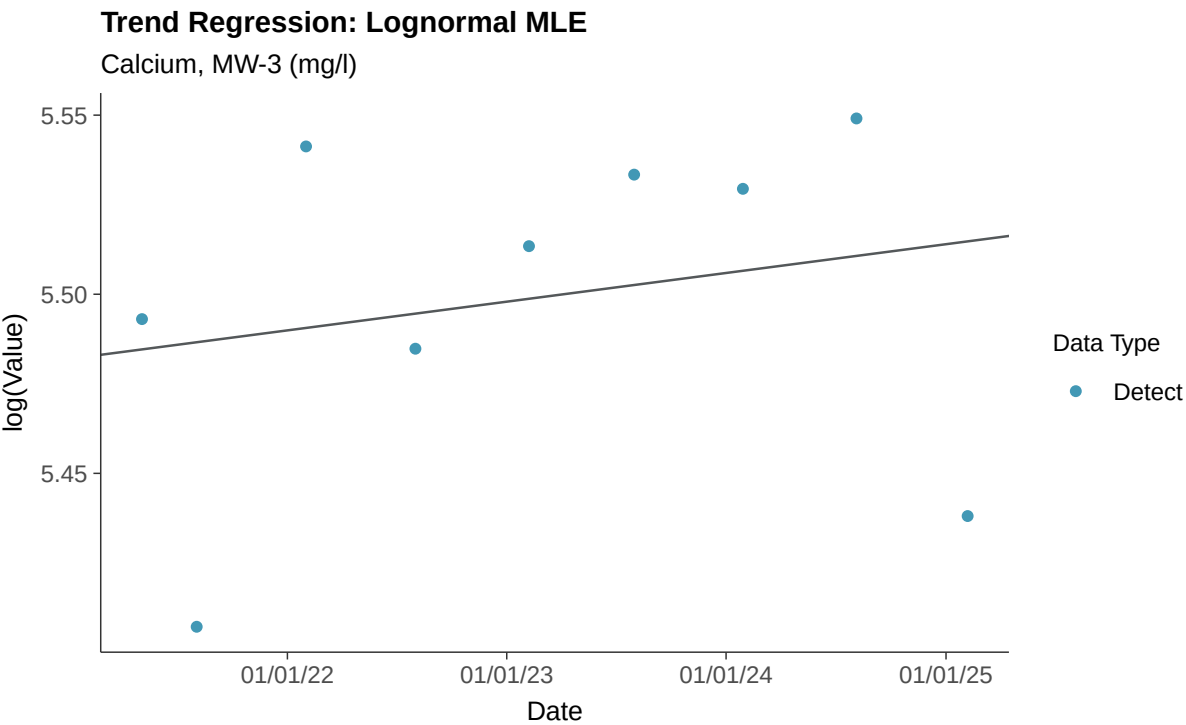
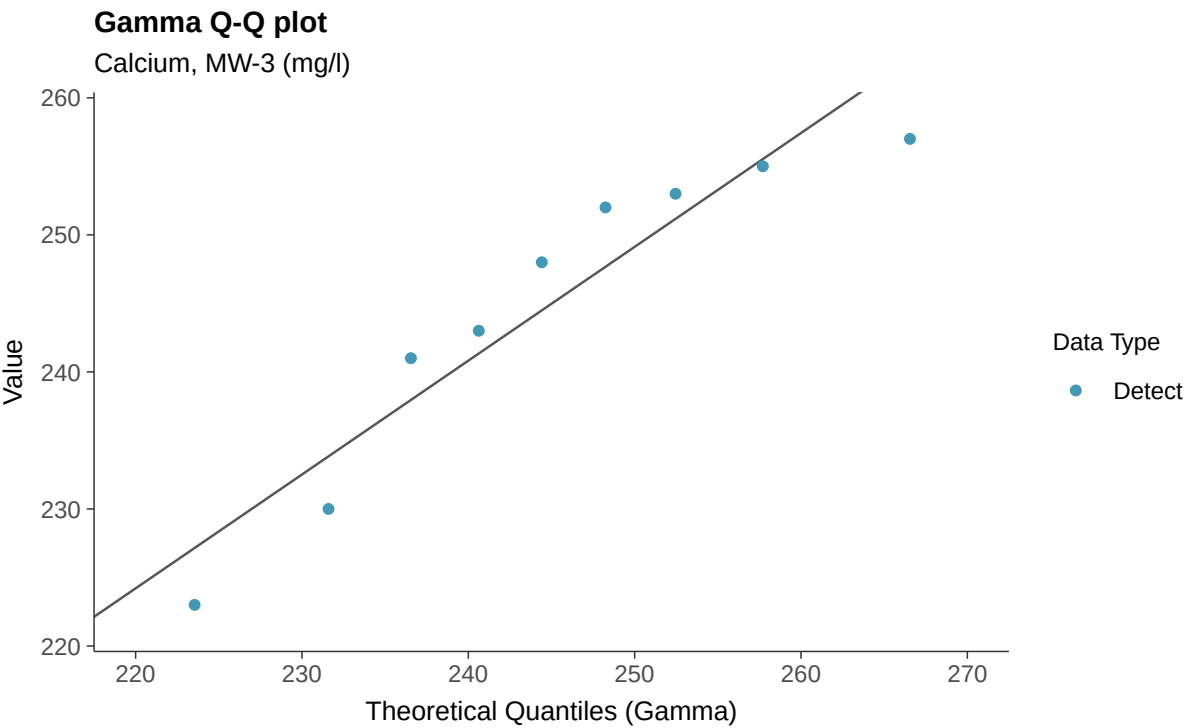
Appendix III: Calcium, MW-3

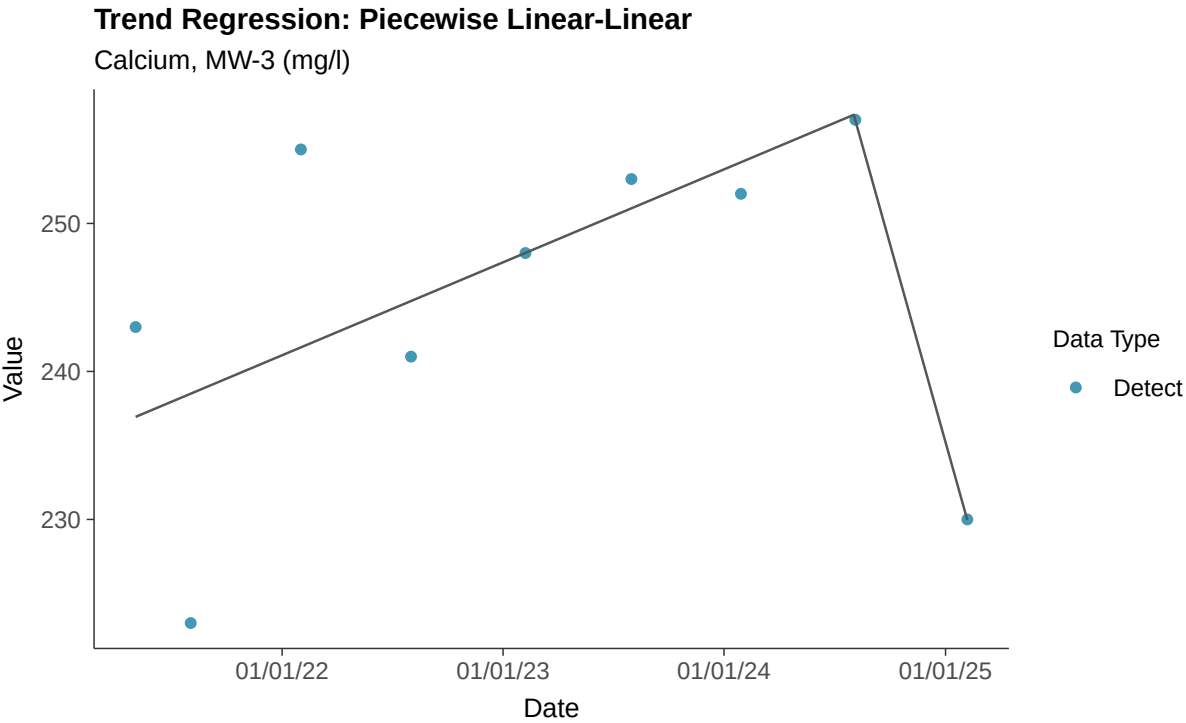
ID: 12_2_107







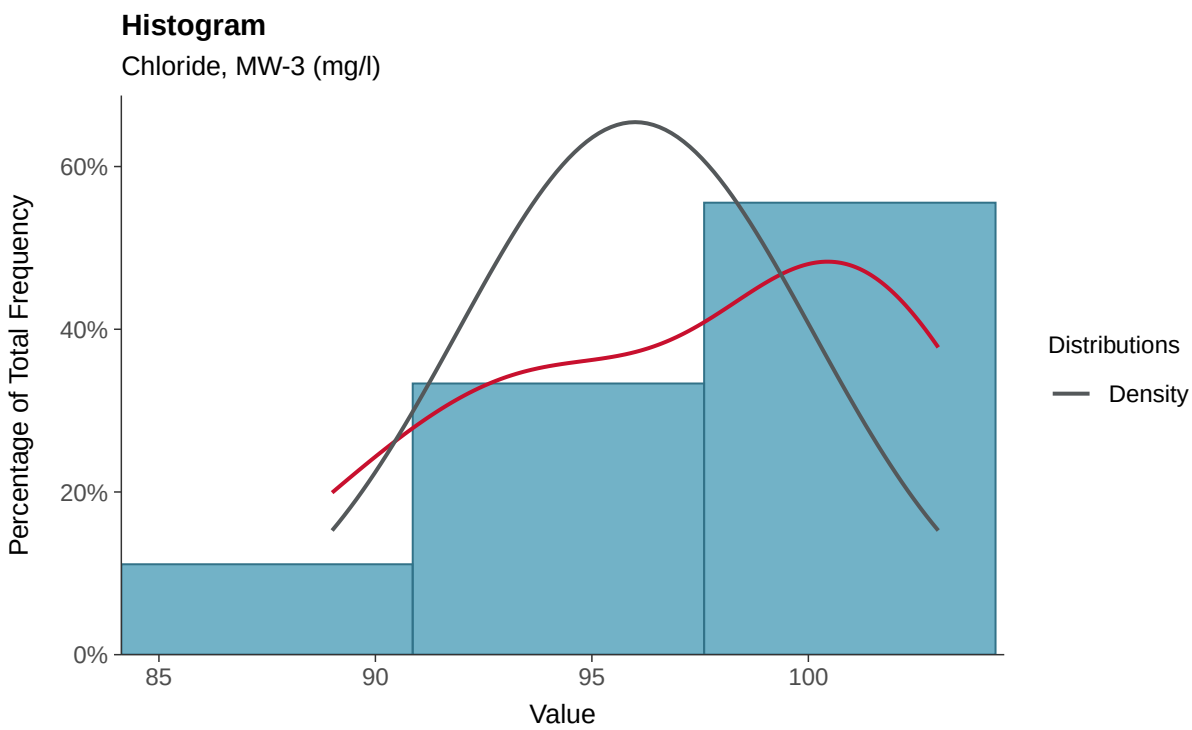
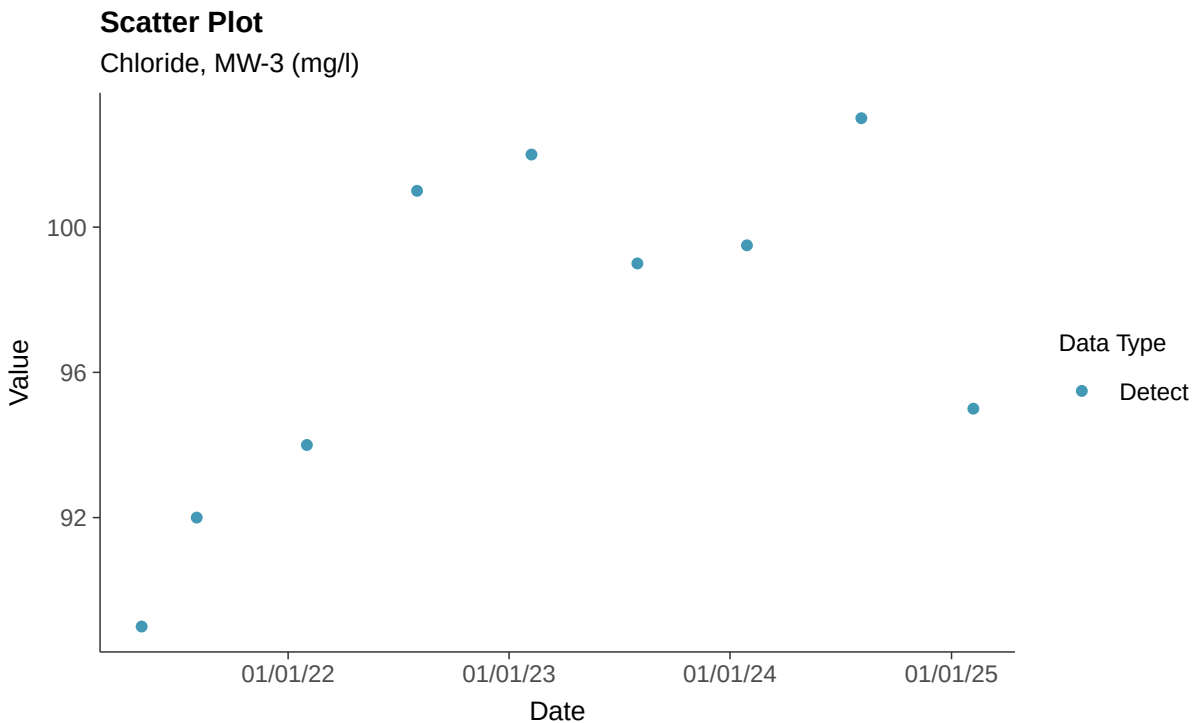


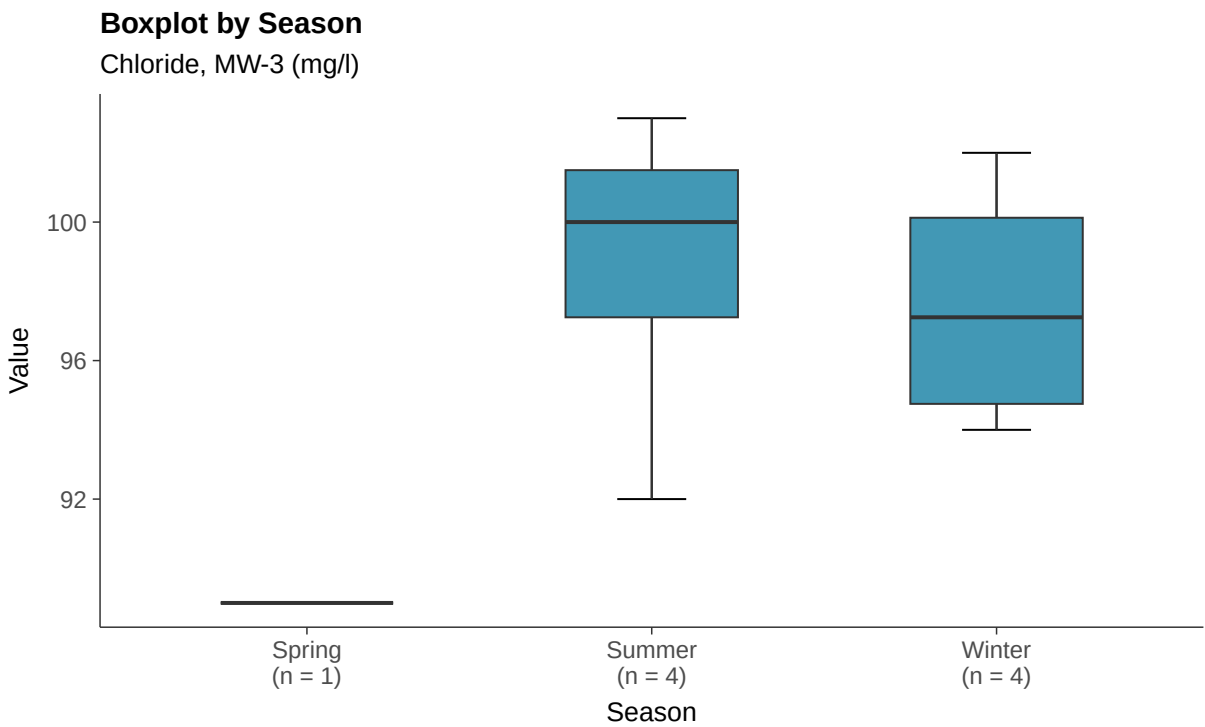
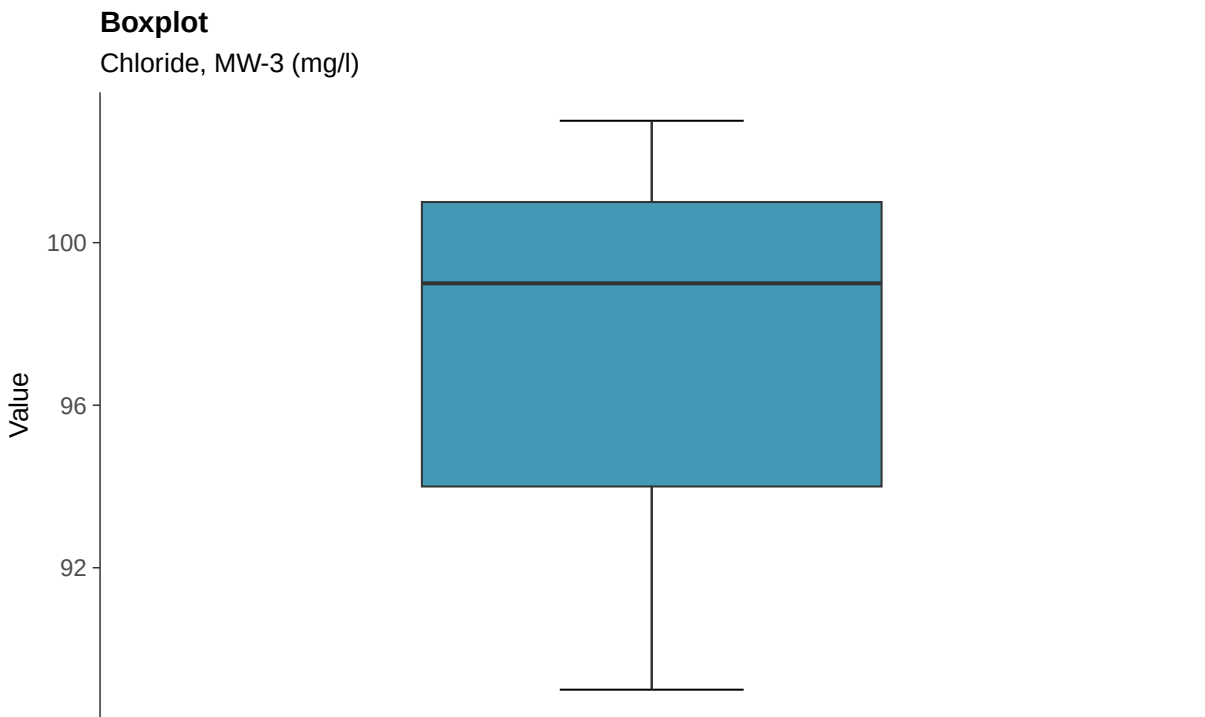


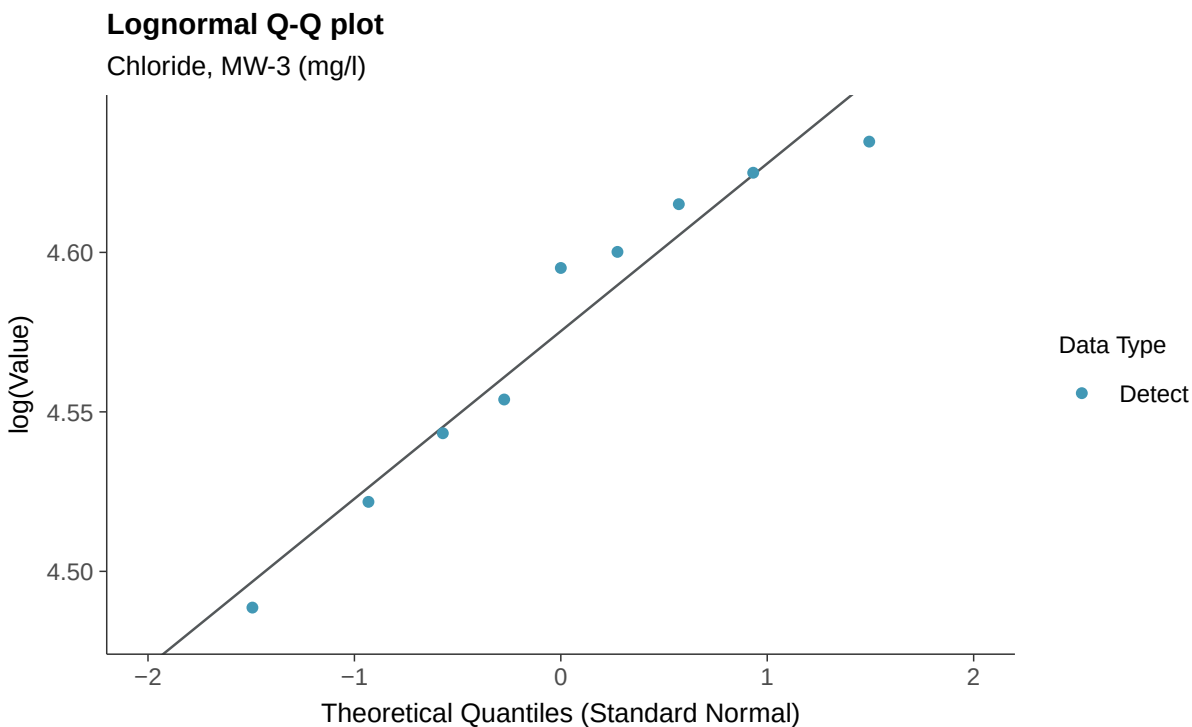
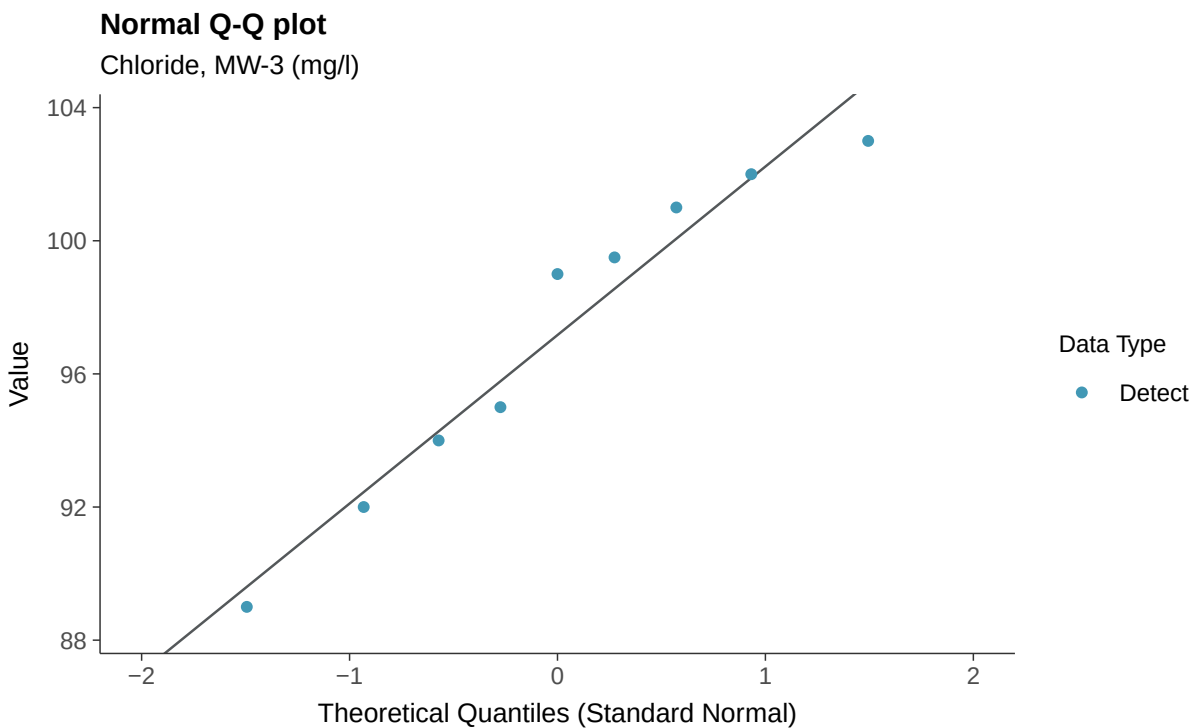


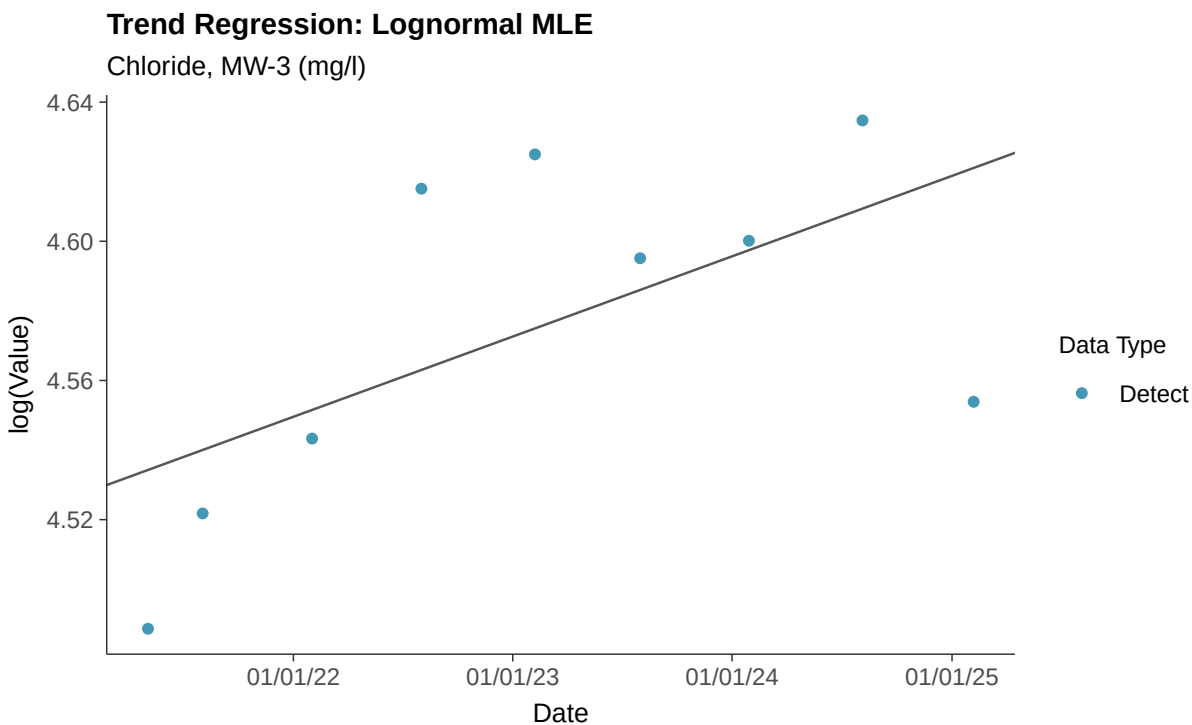
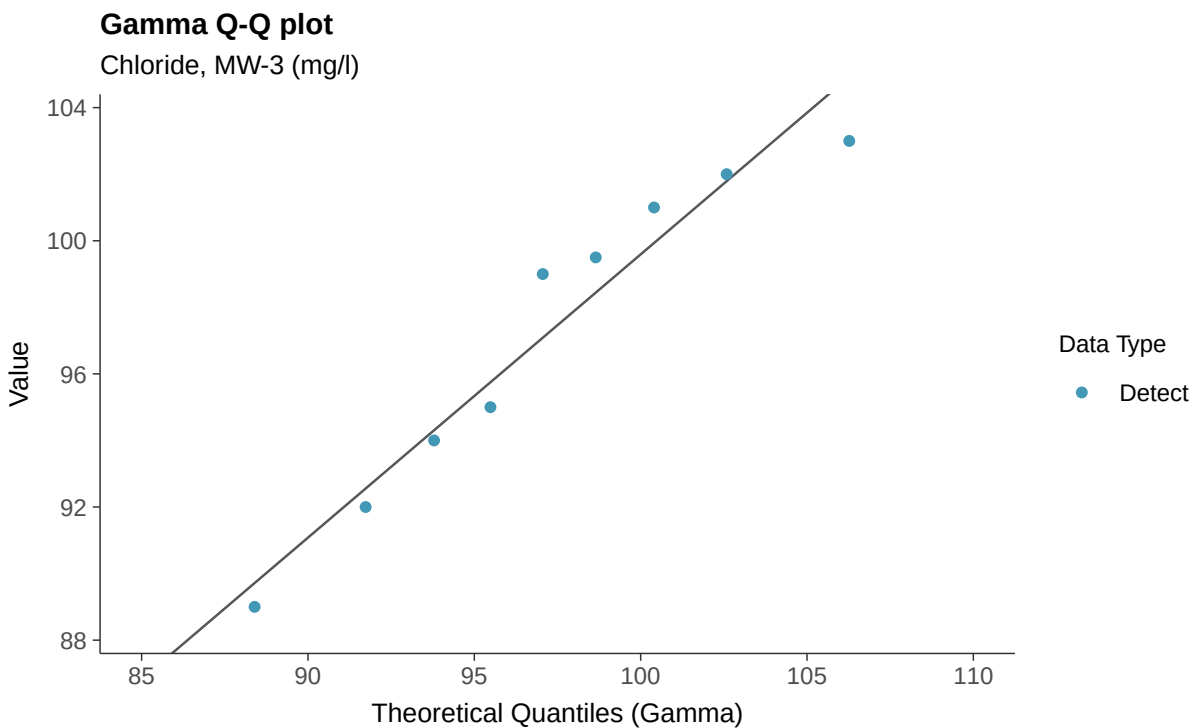
Appendix III: Chloride, MW-3

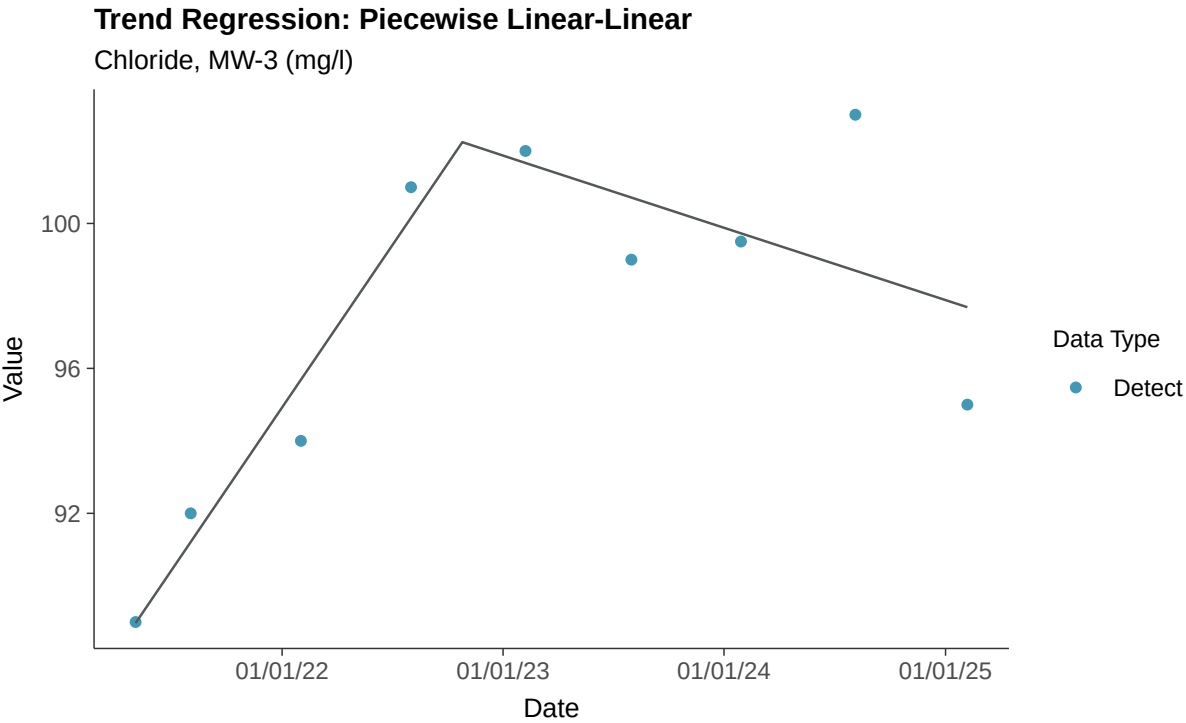
ID: 12_2_108







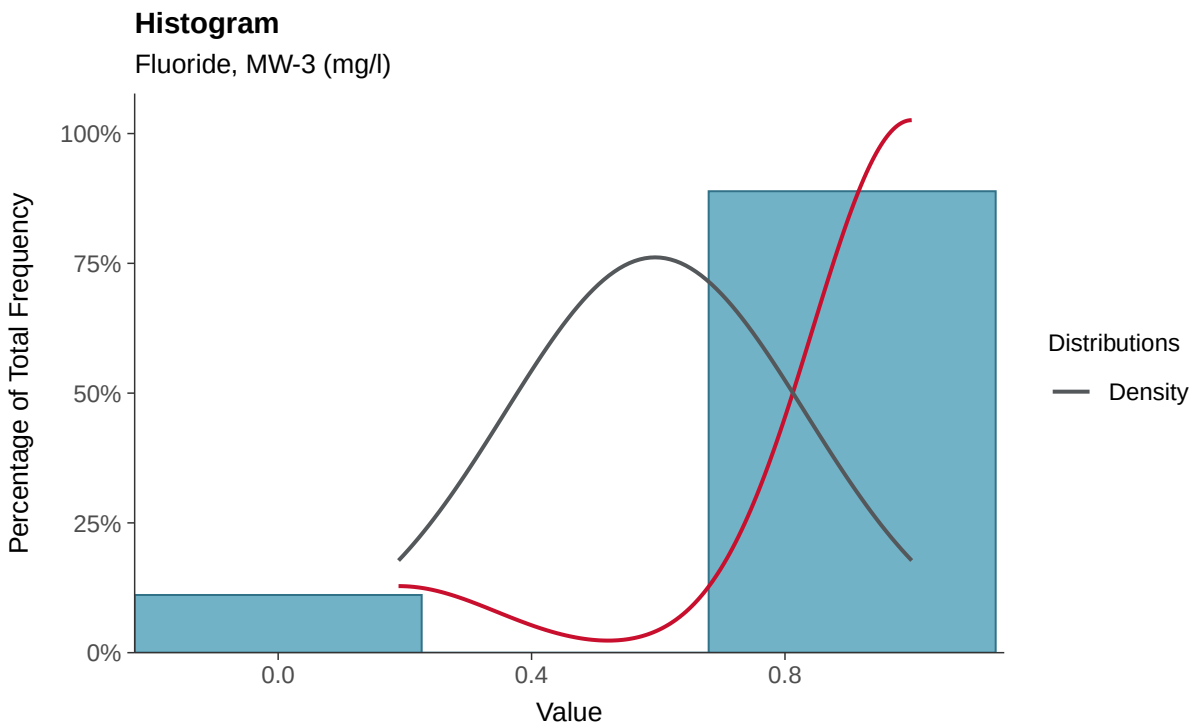
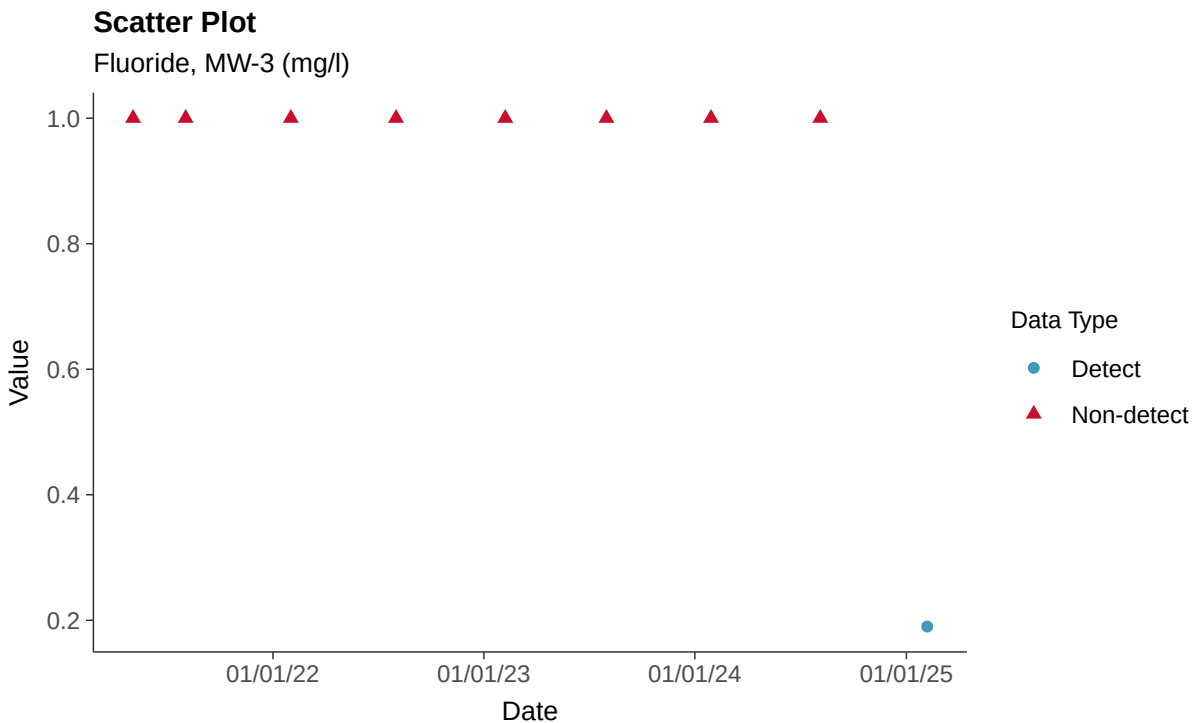


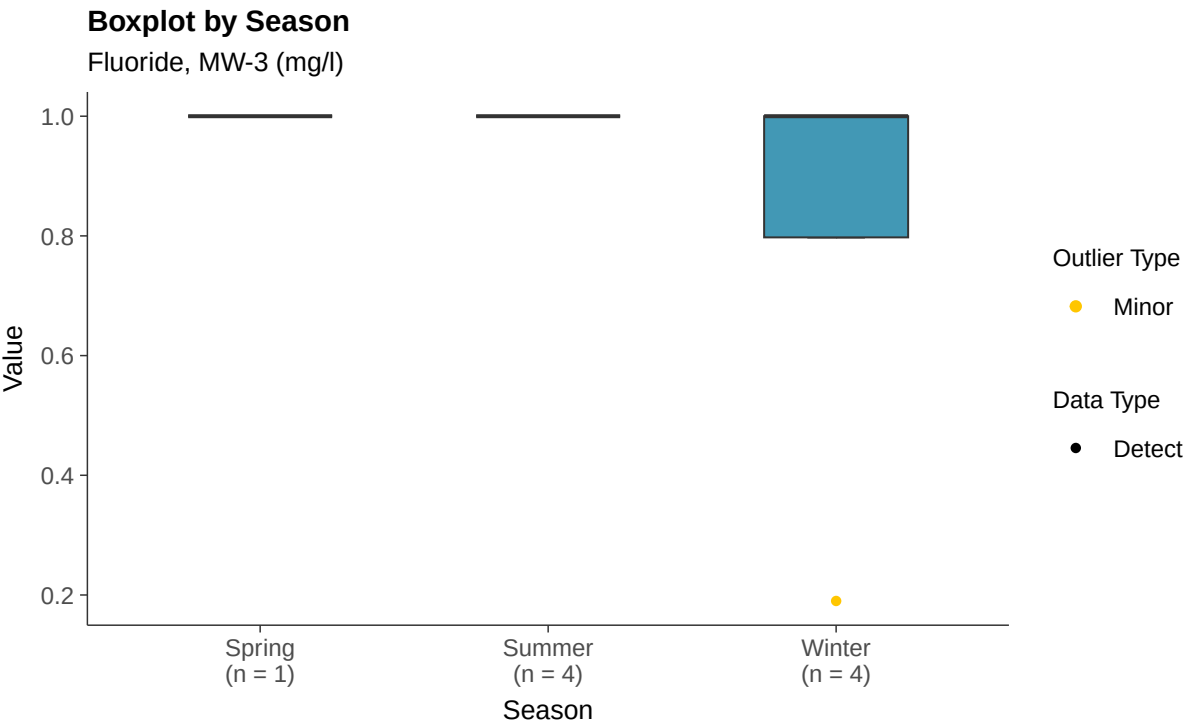
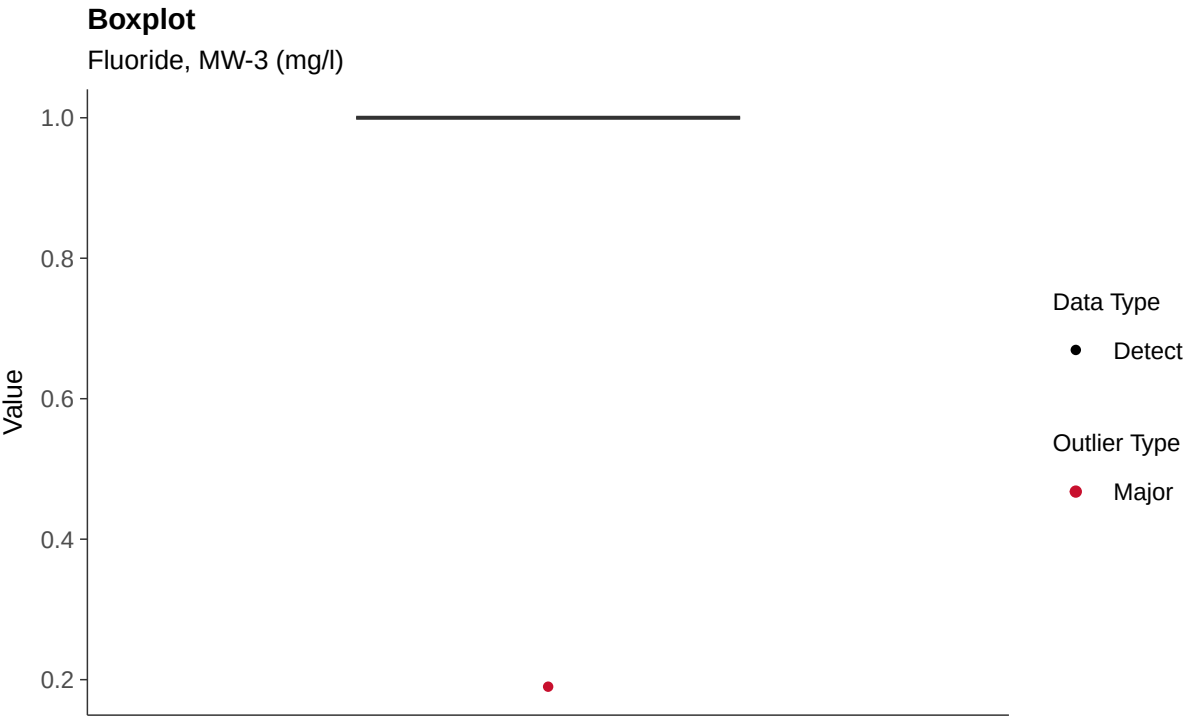




Appendix III: Fluoride, MW-3

ID: 12_2_112

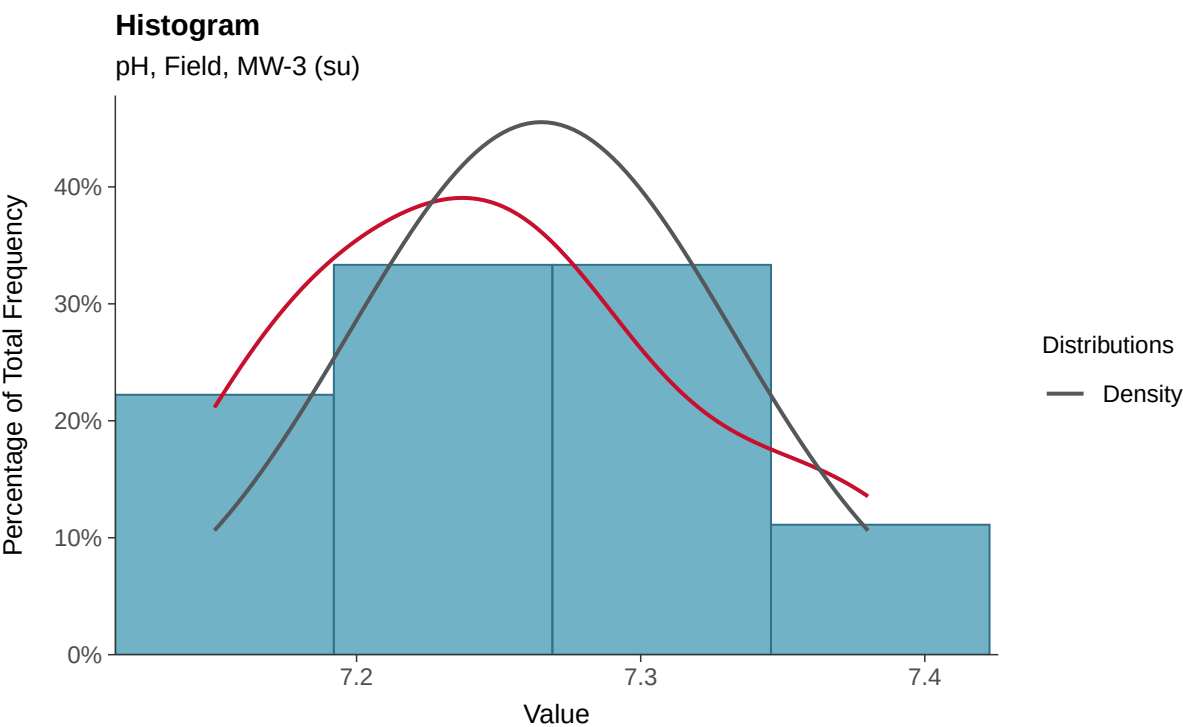
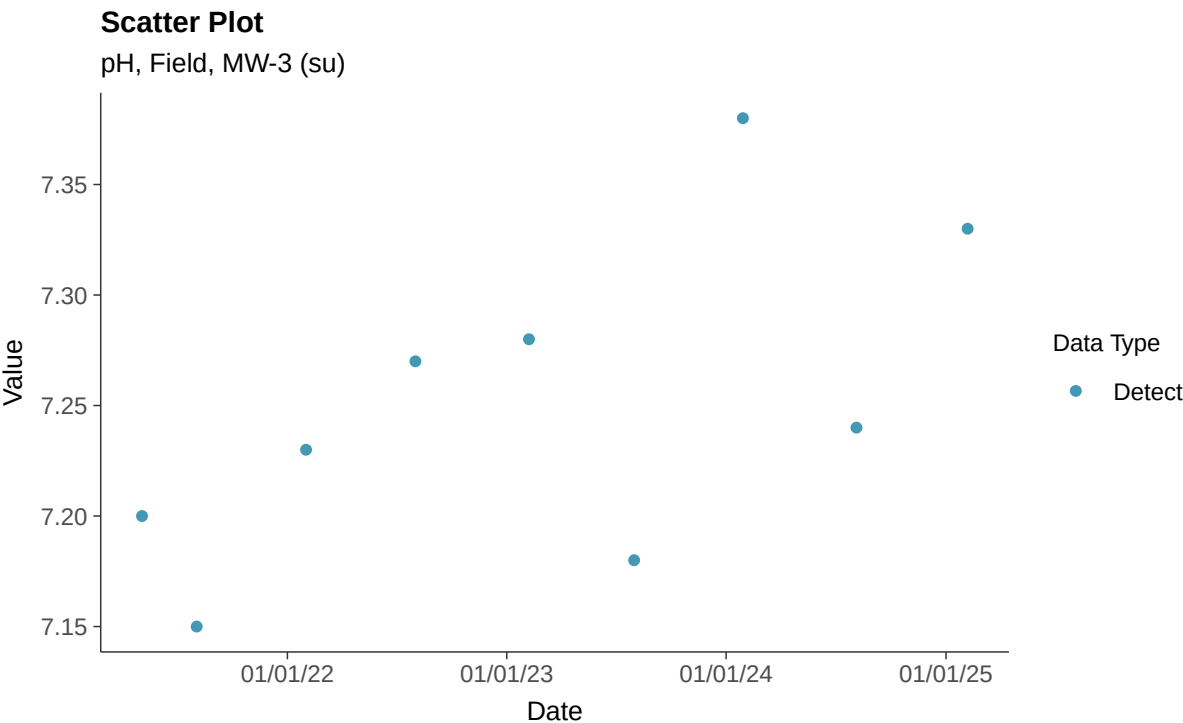


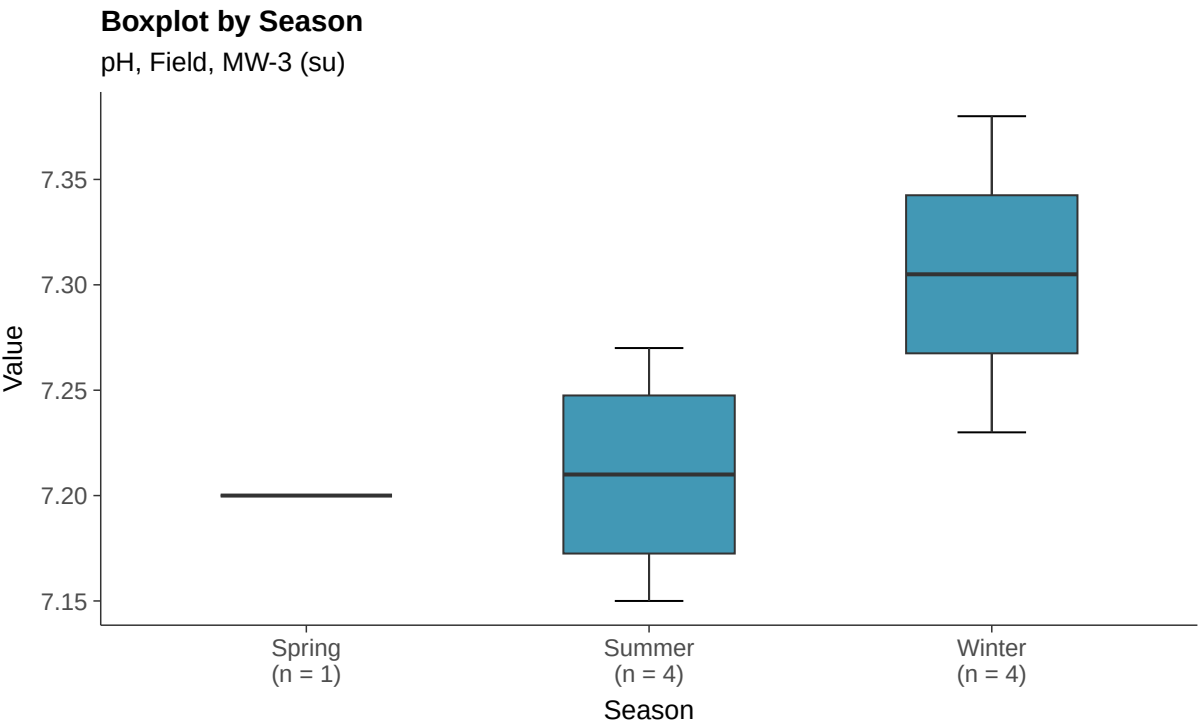
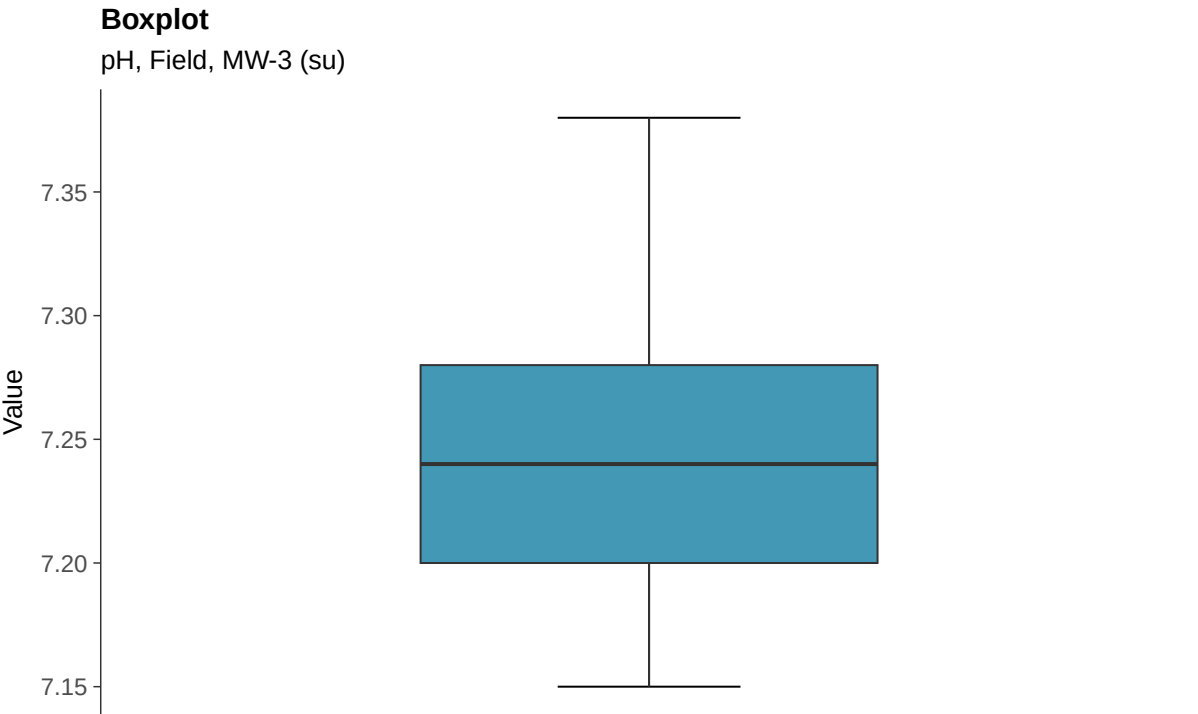


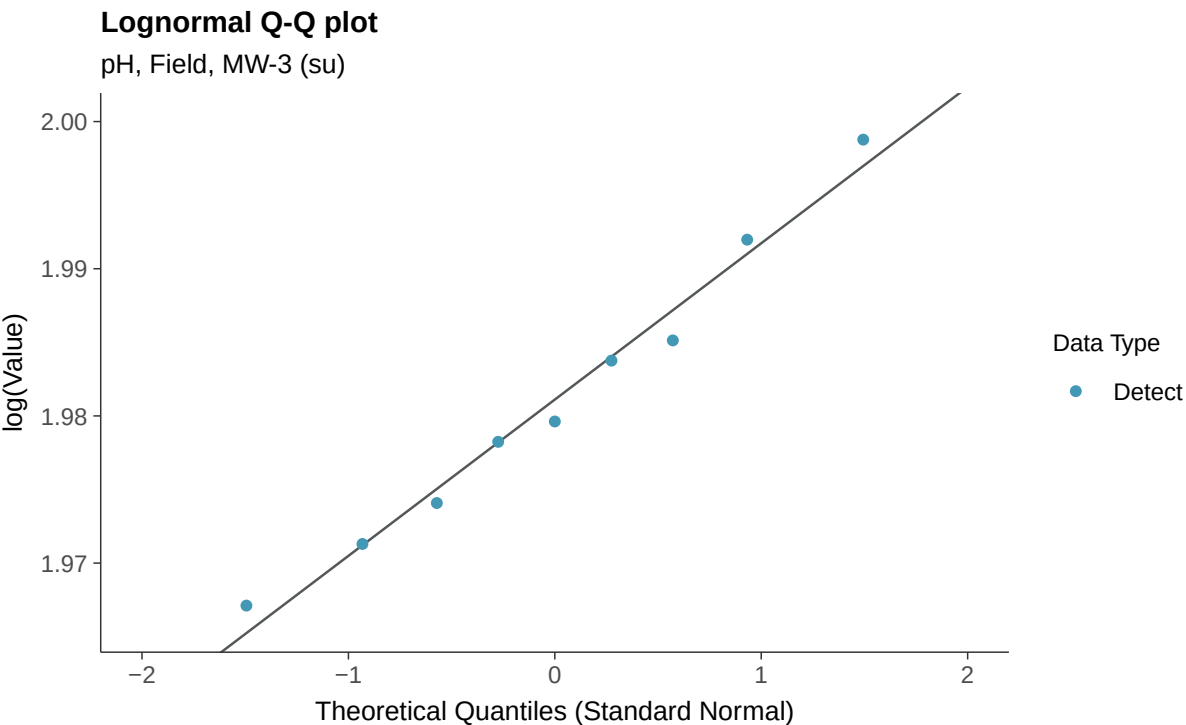
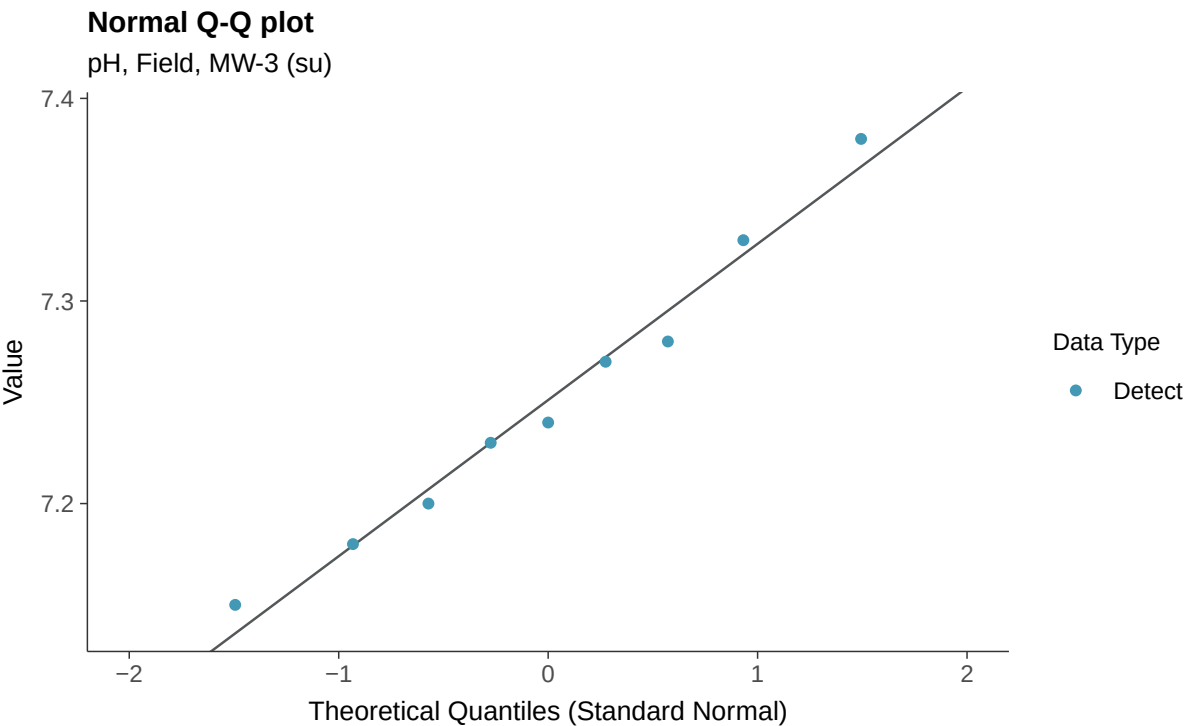


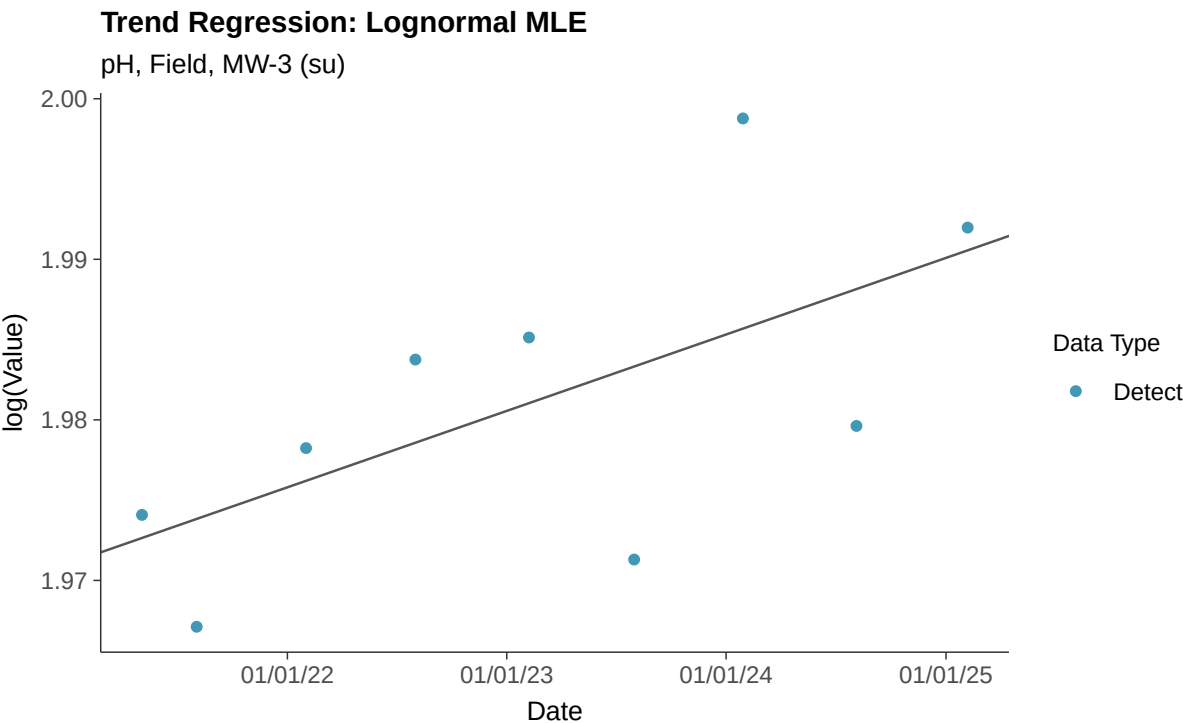
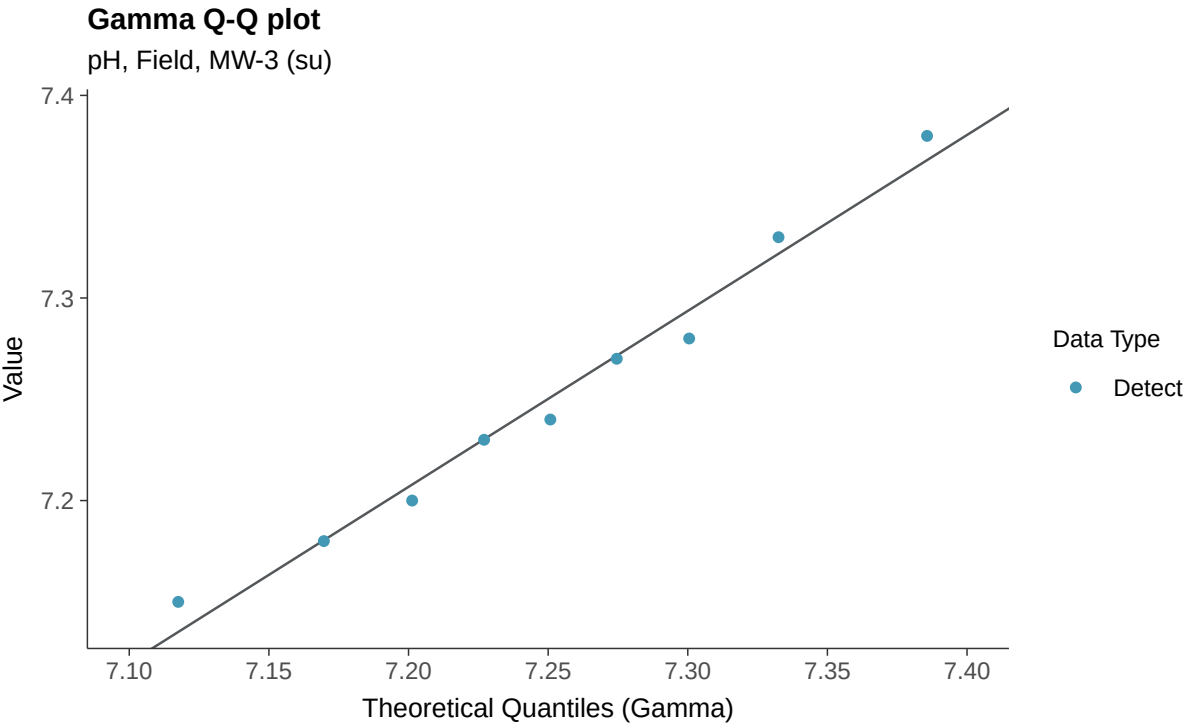
Appendix III: pH, Field, MW-3

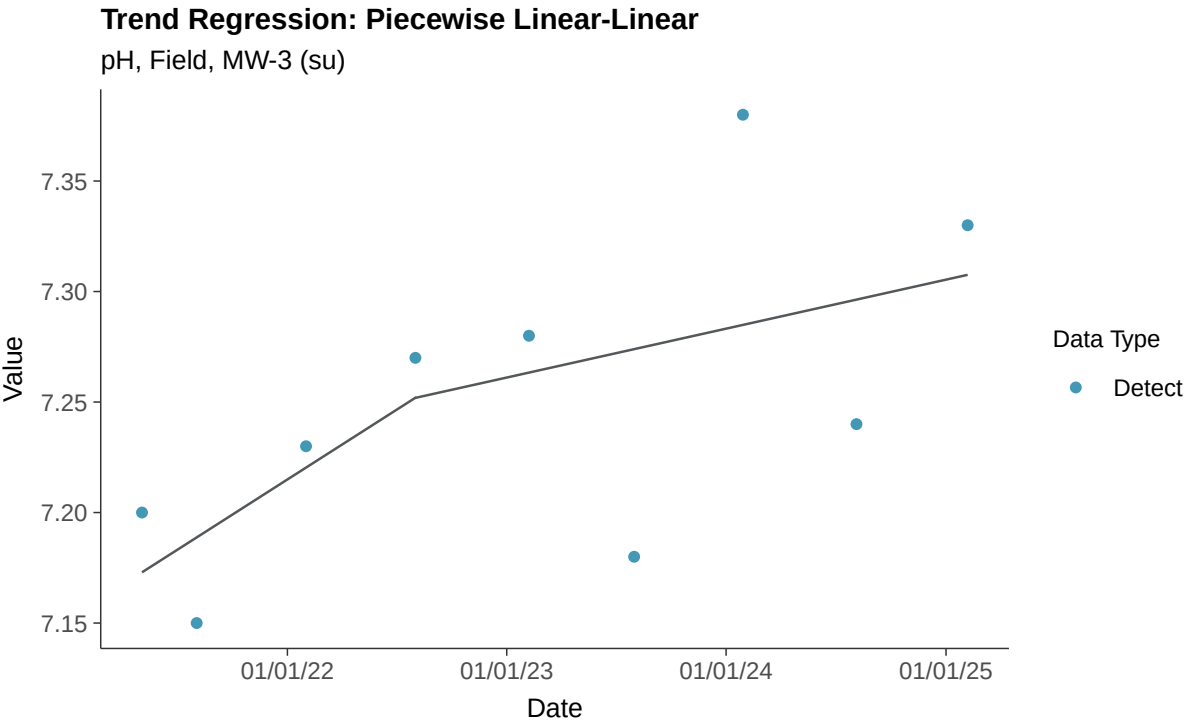
ID: 12_2_120







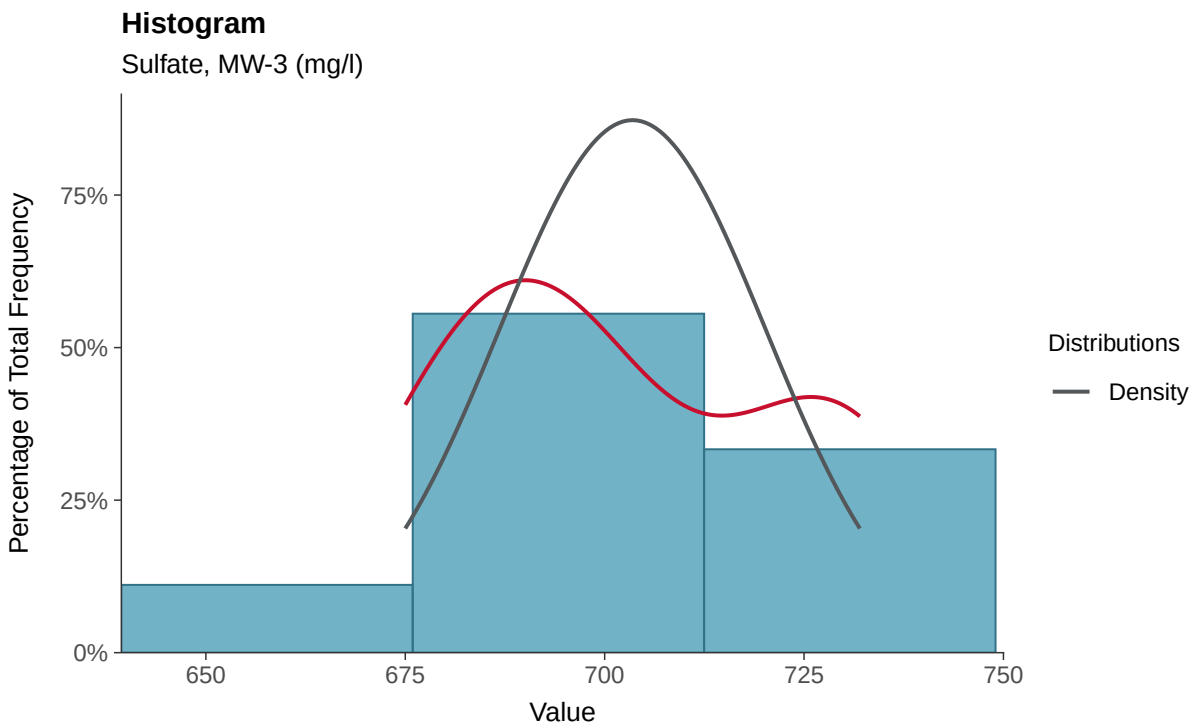
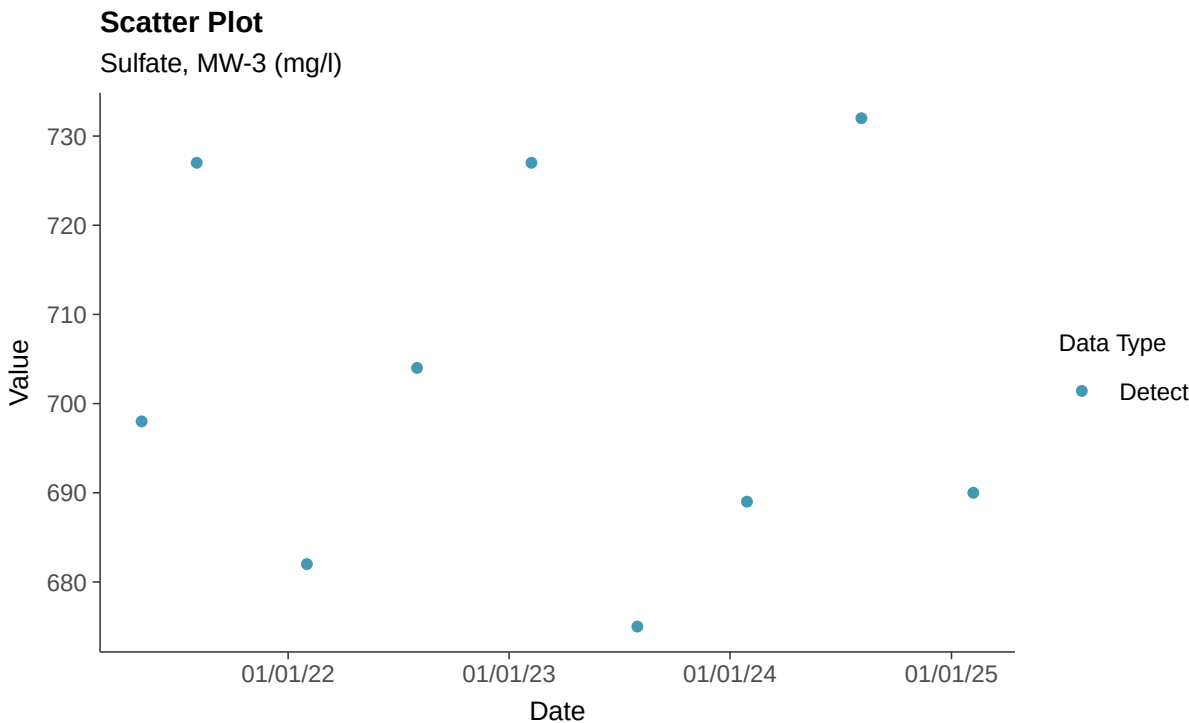


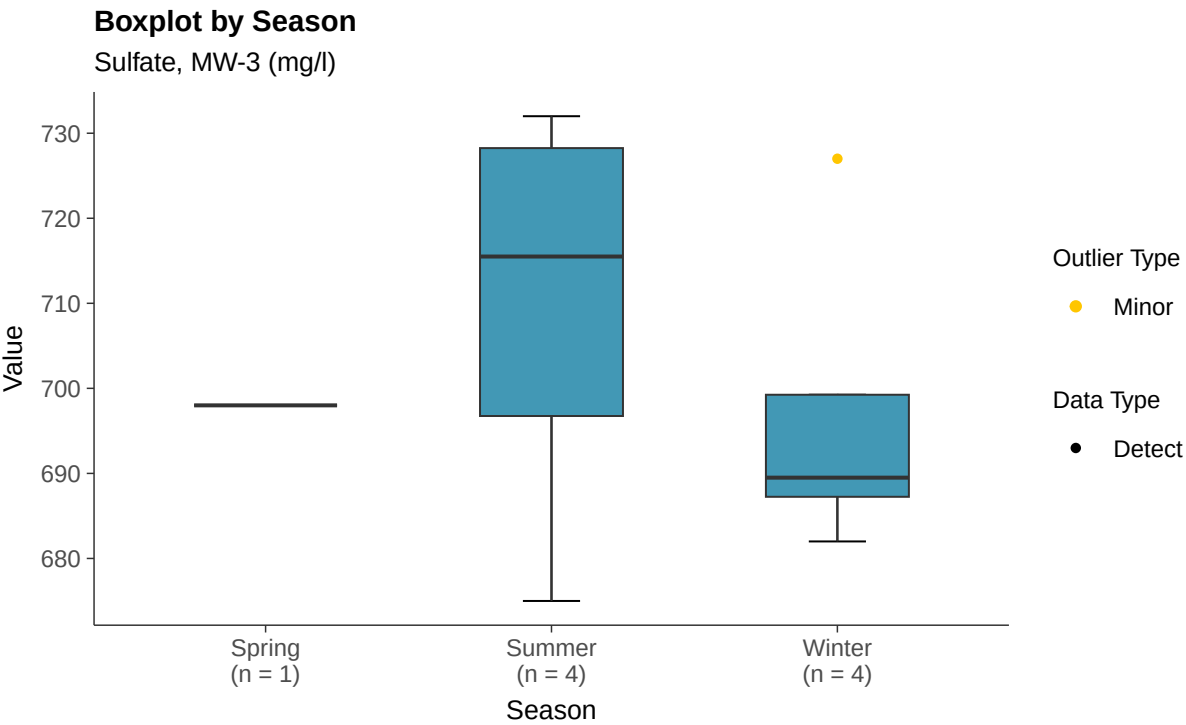
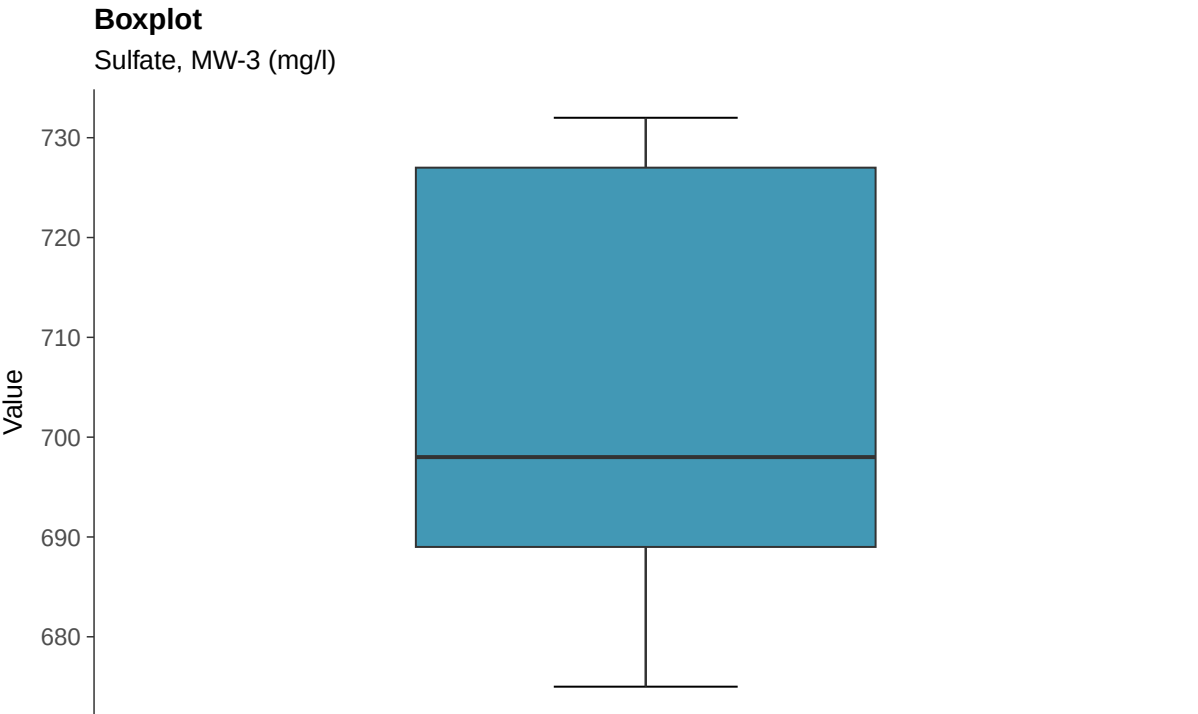


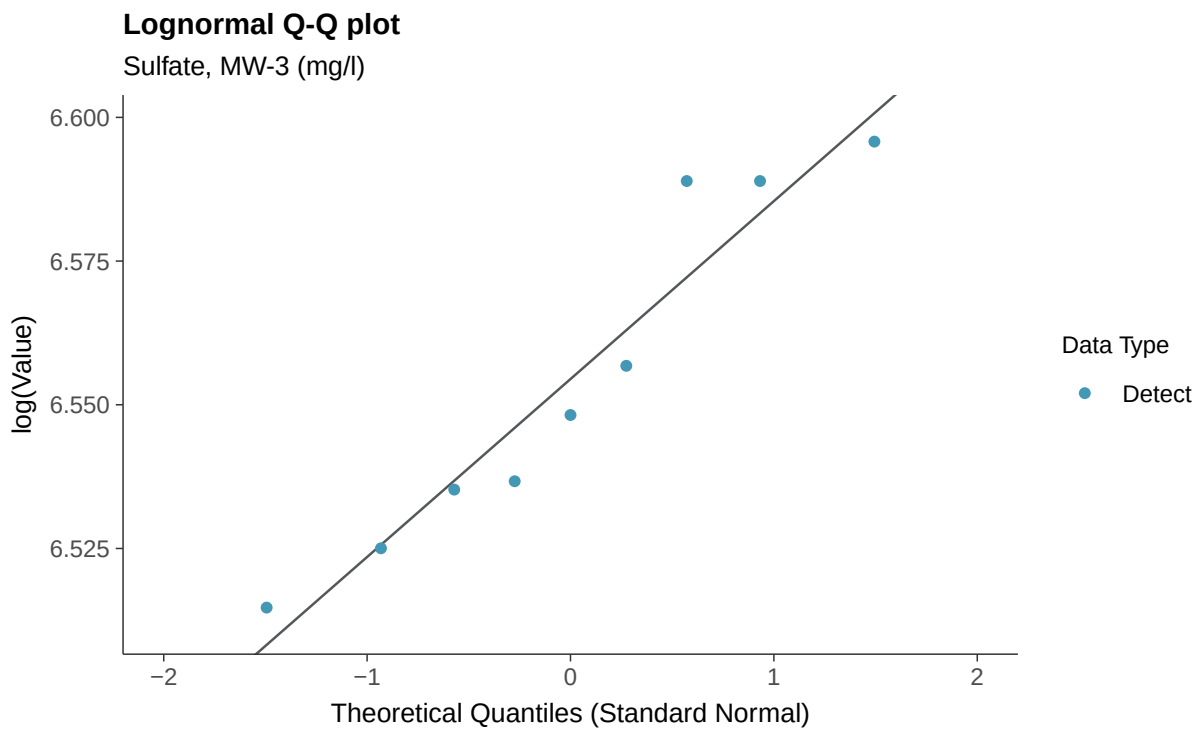
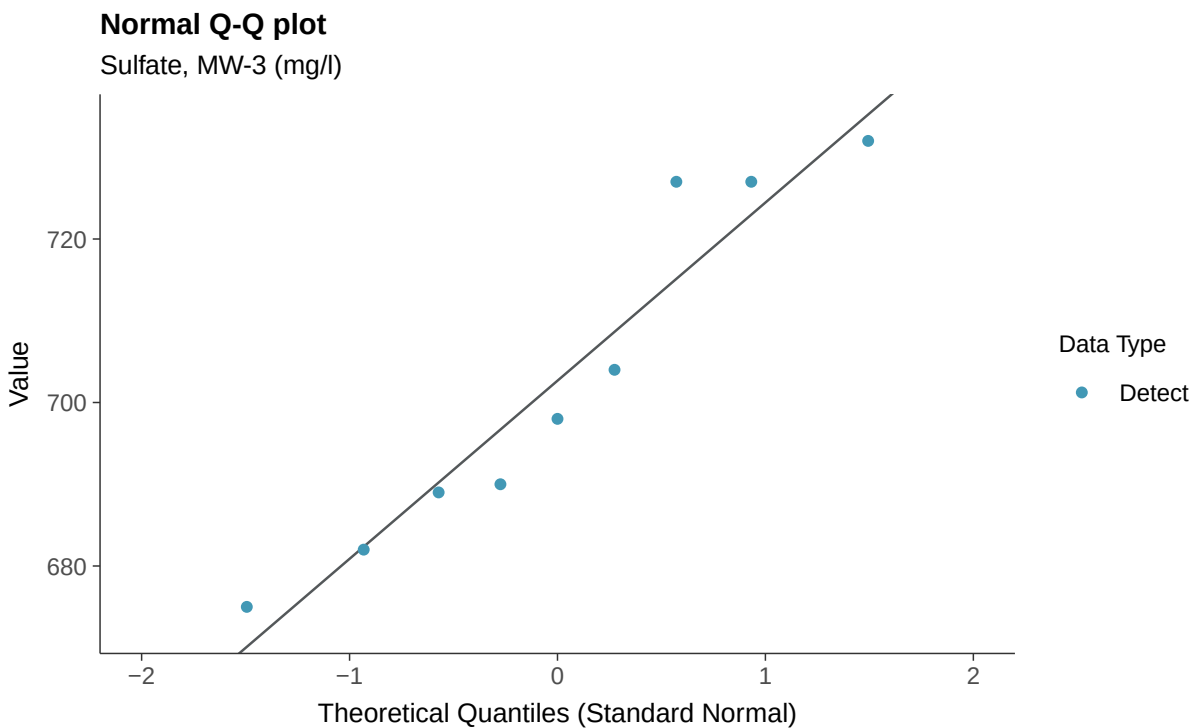


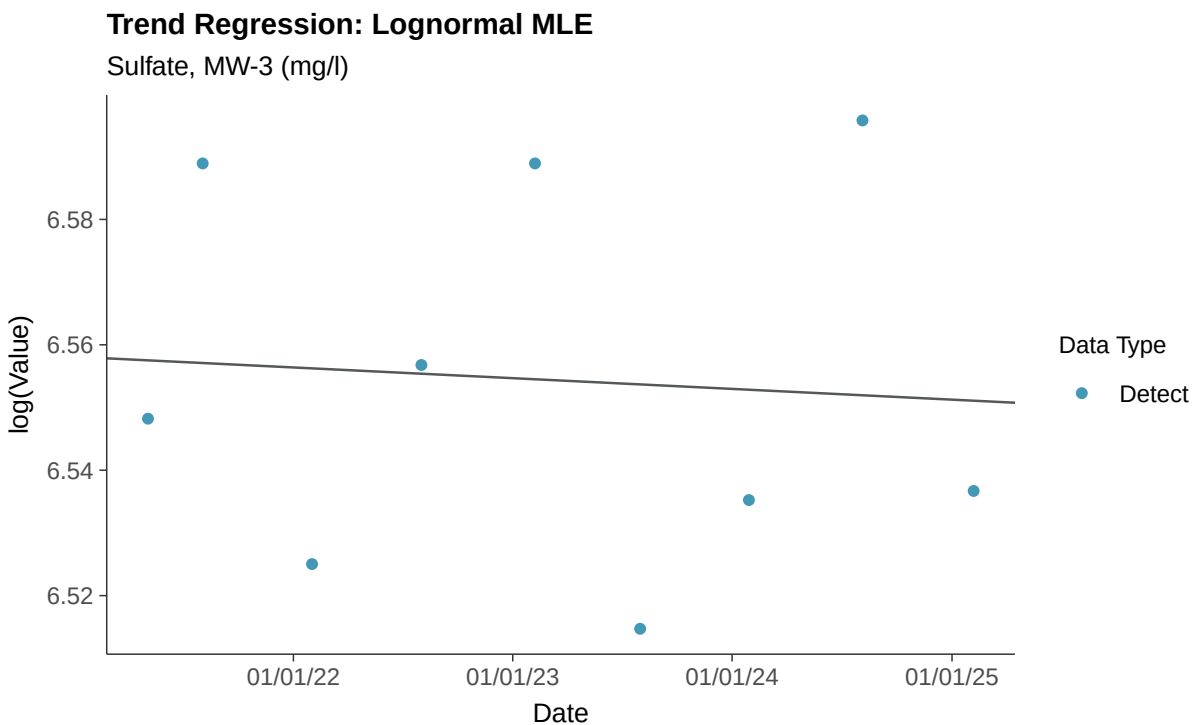
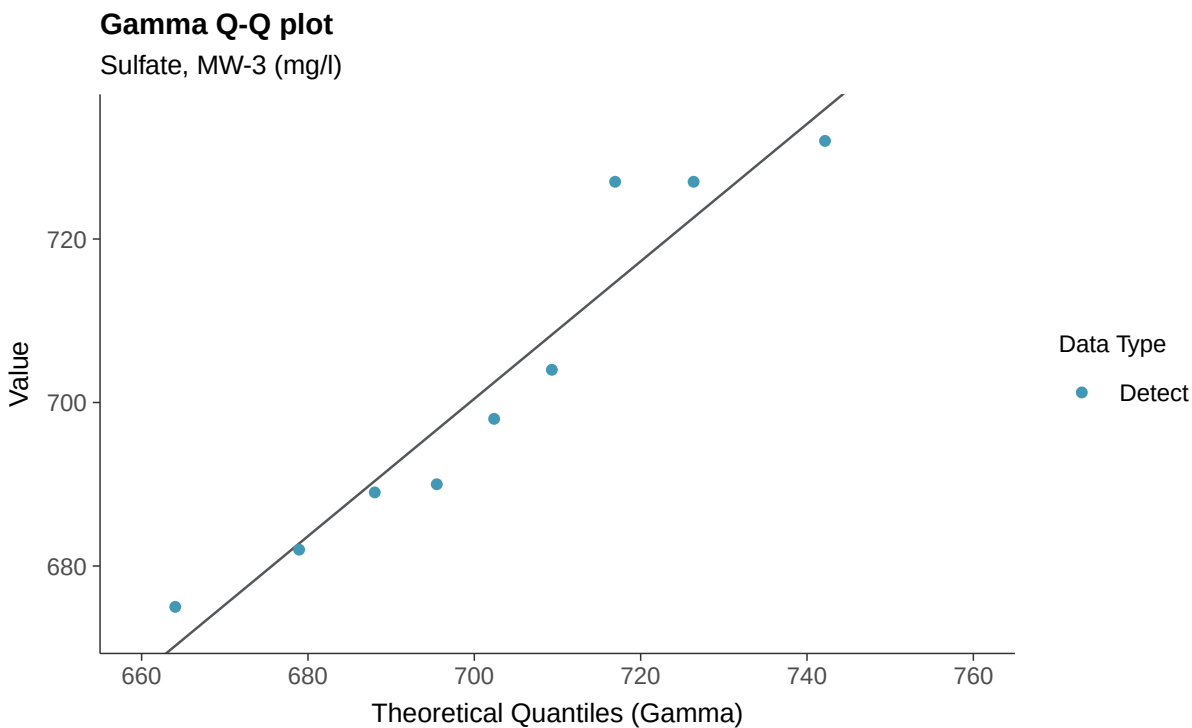
Appendix III: Sulfate, MW-3

ID: 12_2_124





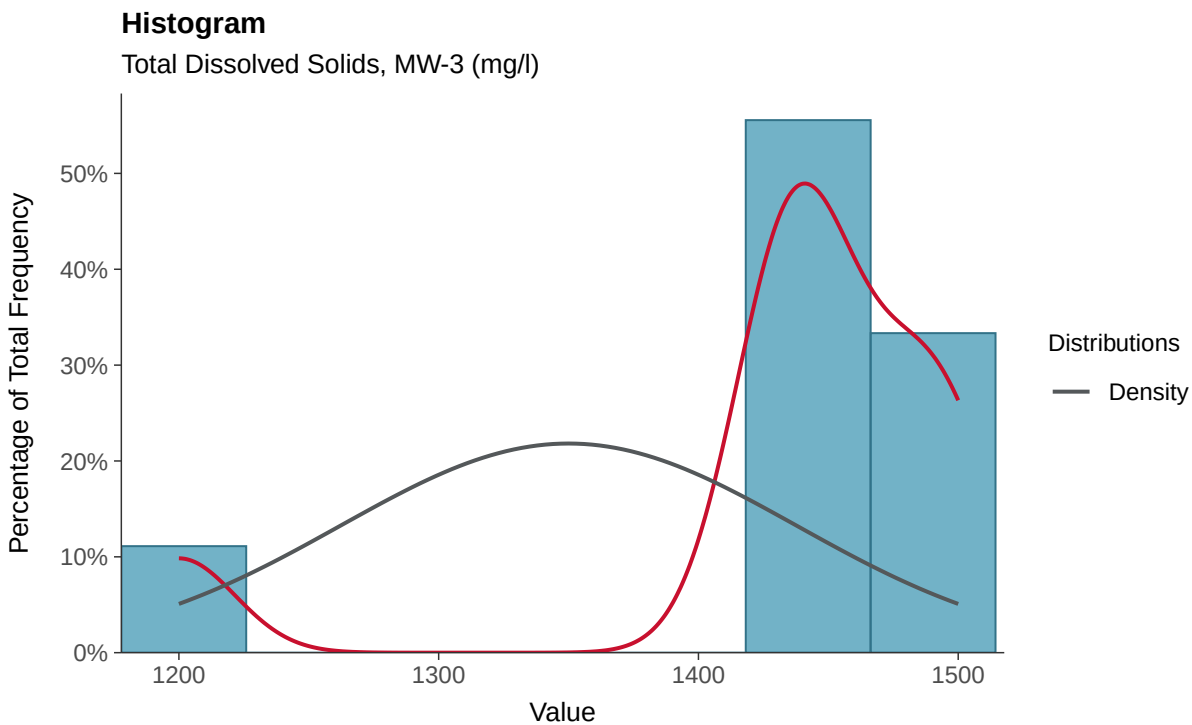
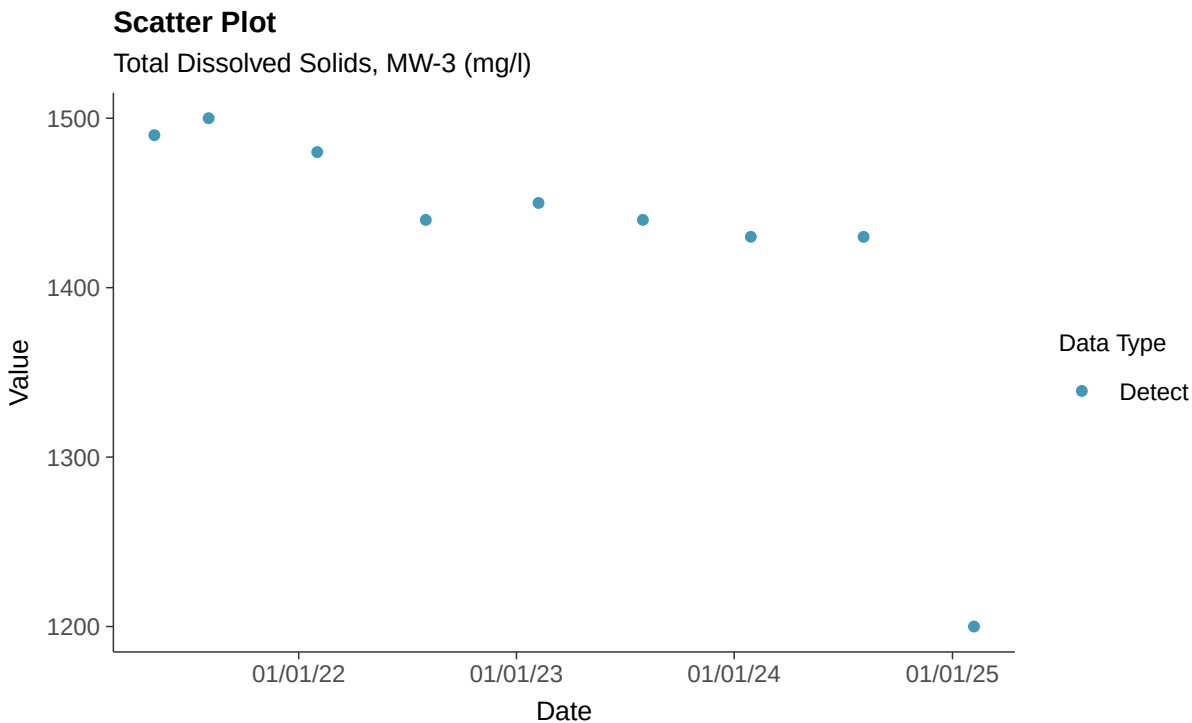


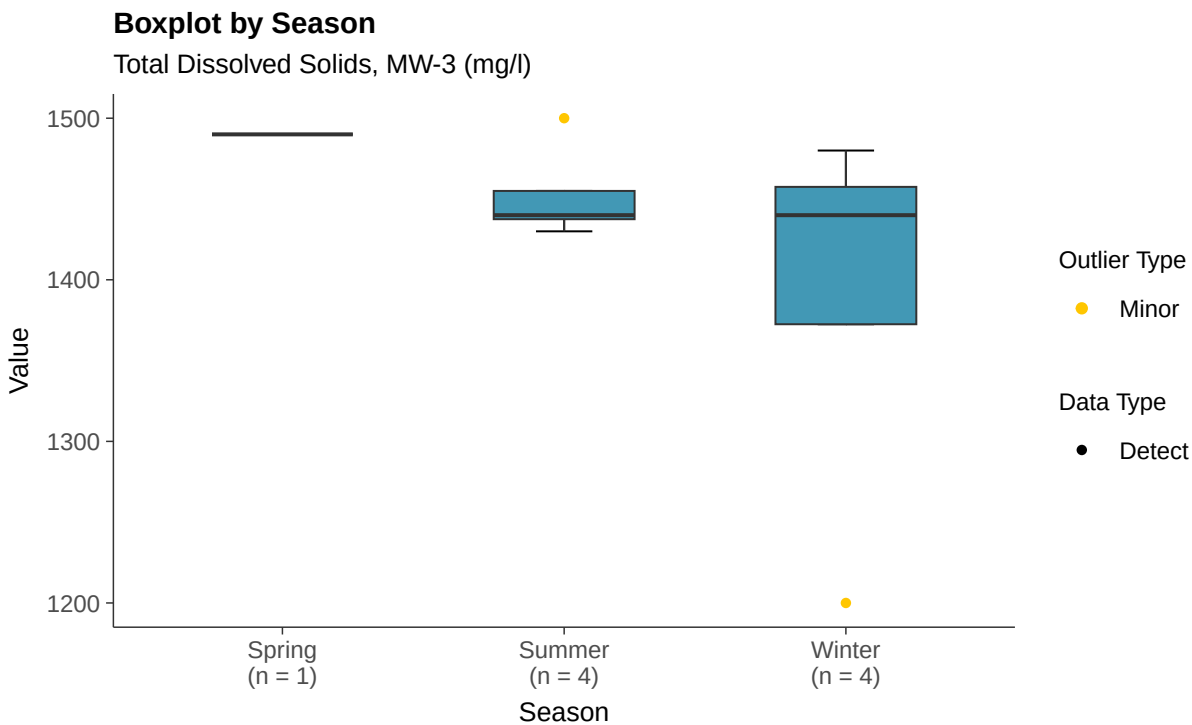
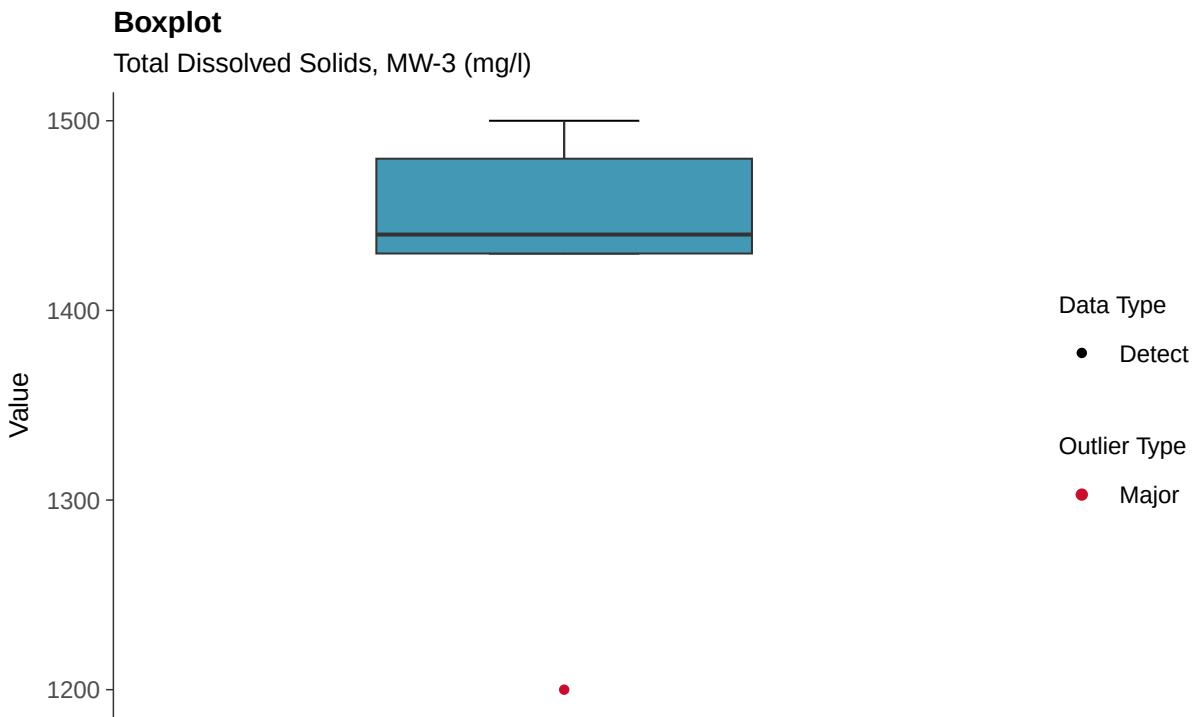


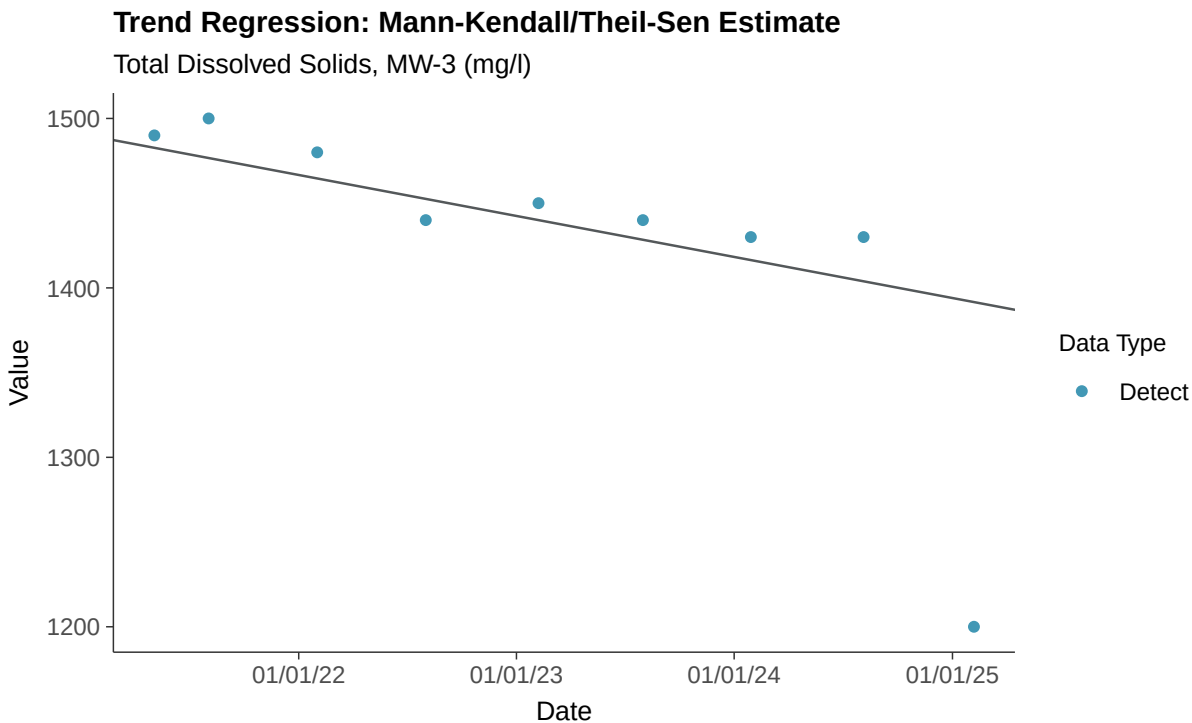
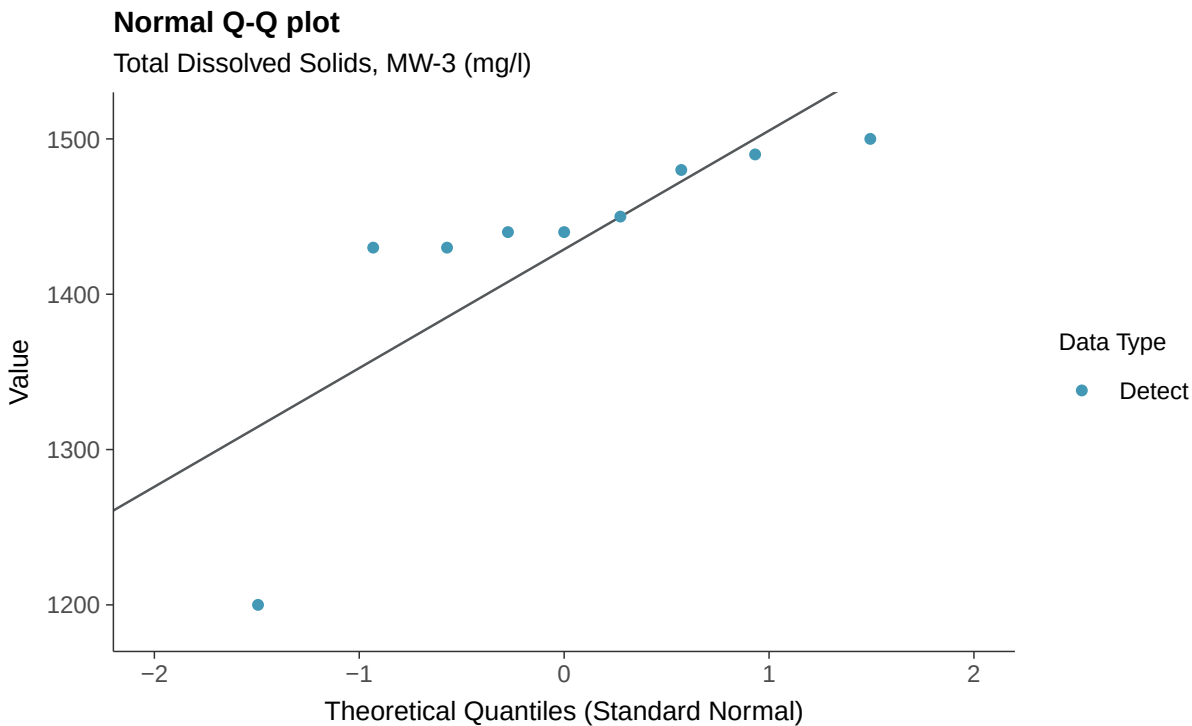


Appendix III: Total Dissolved Solids, MW-3

ID: 12_2_126



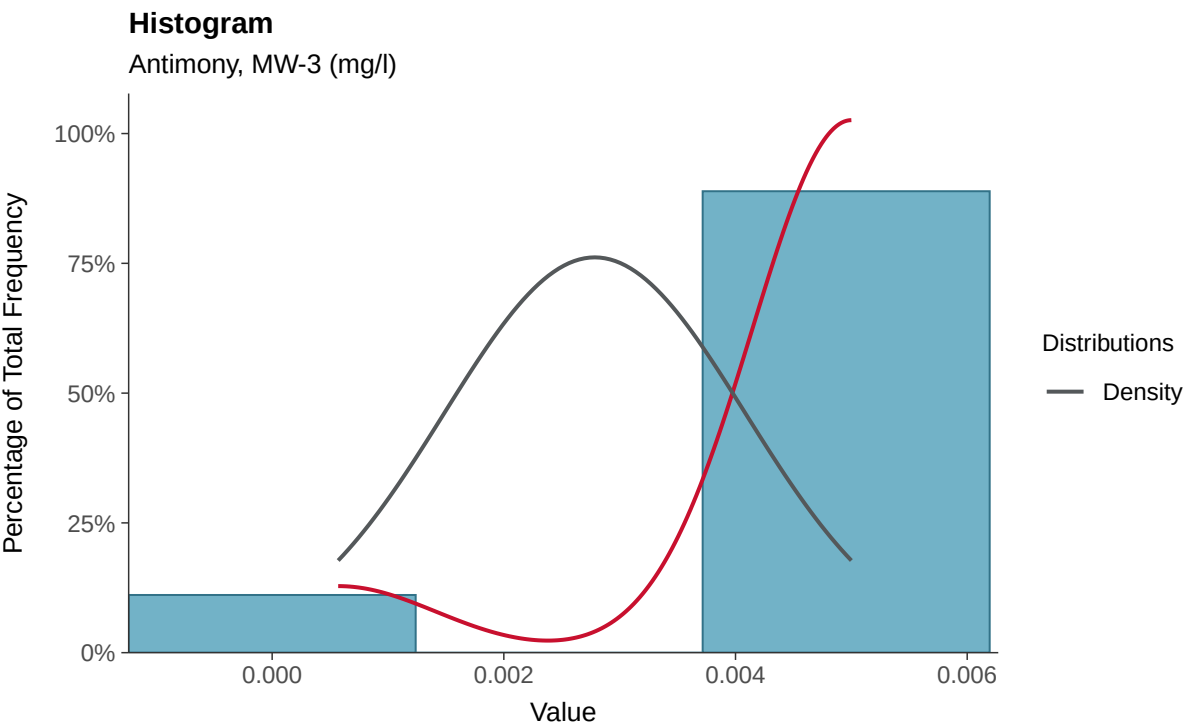
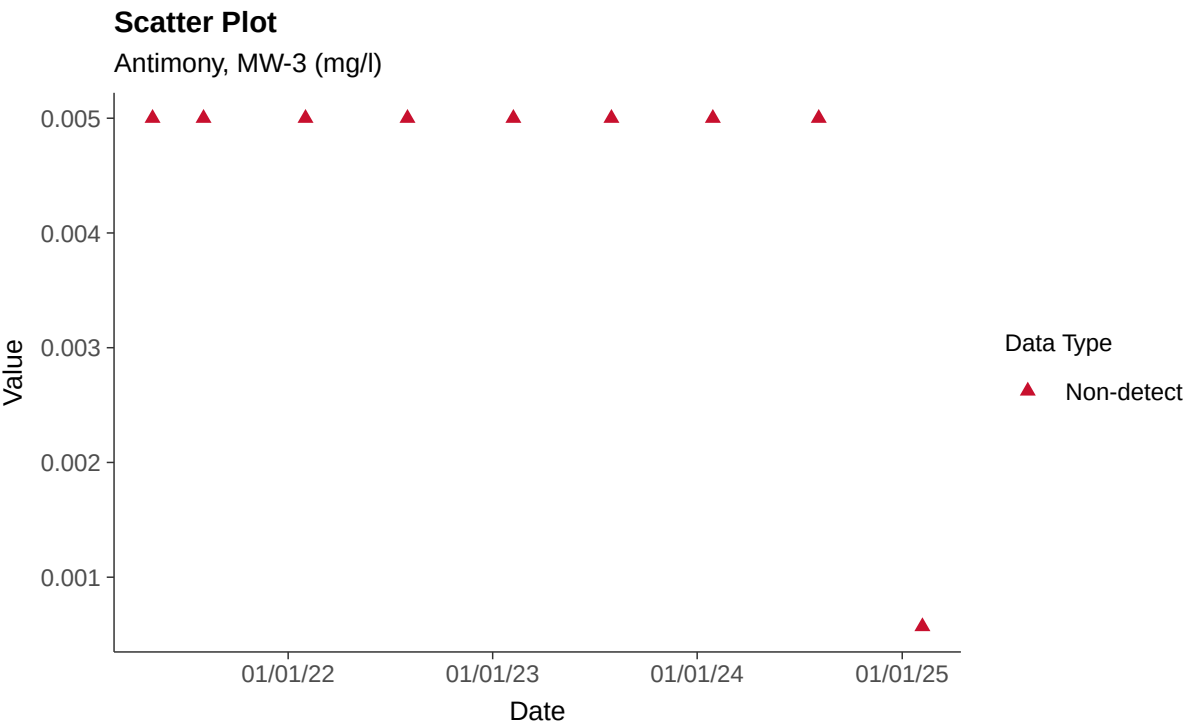


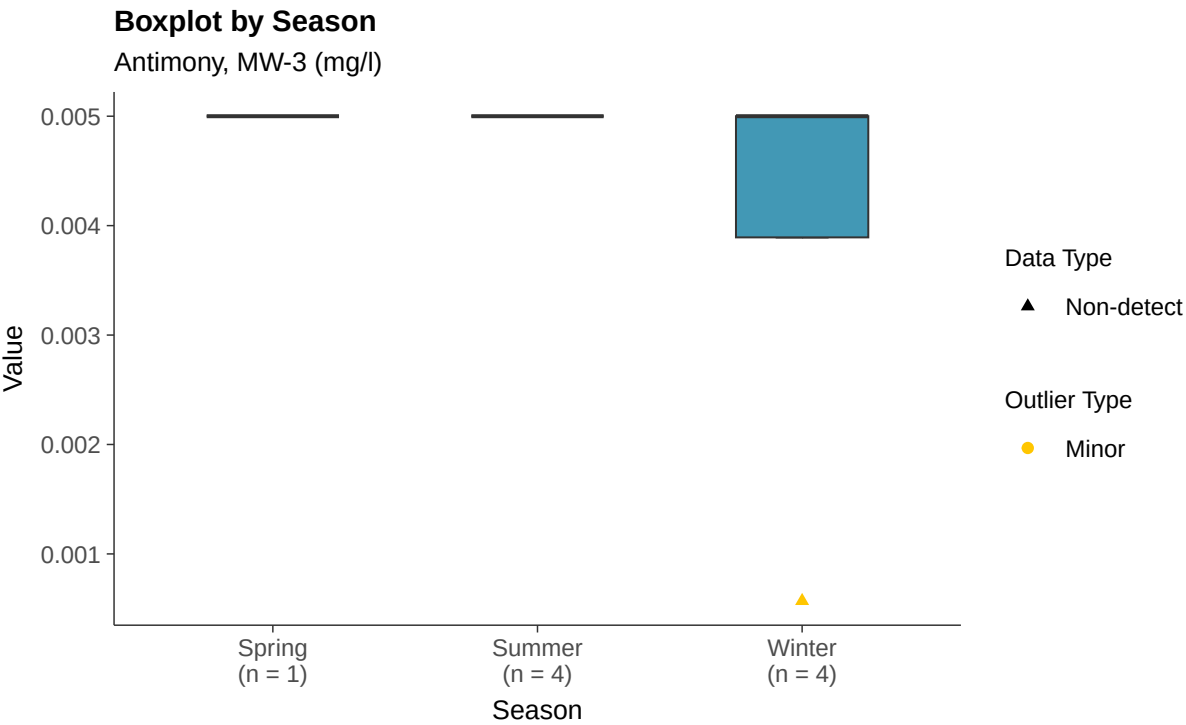
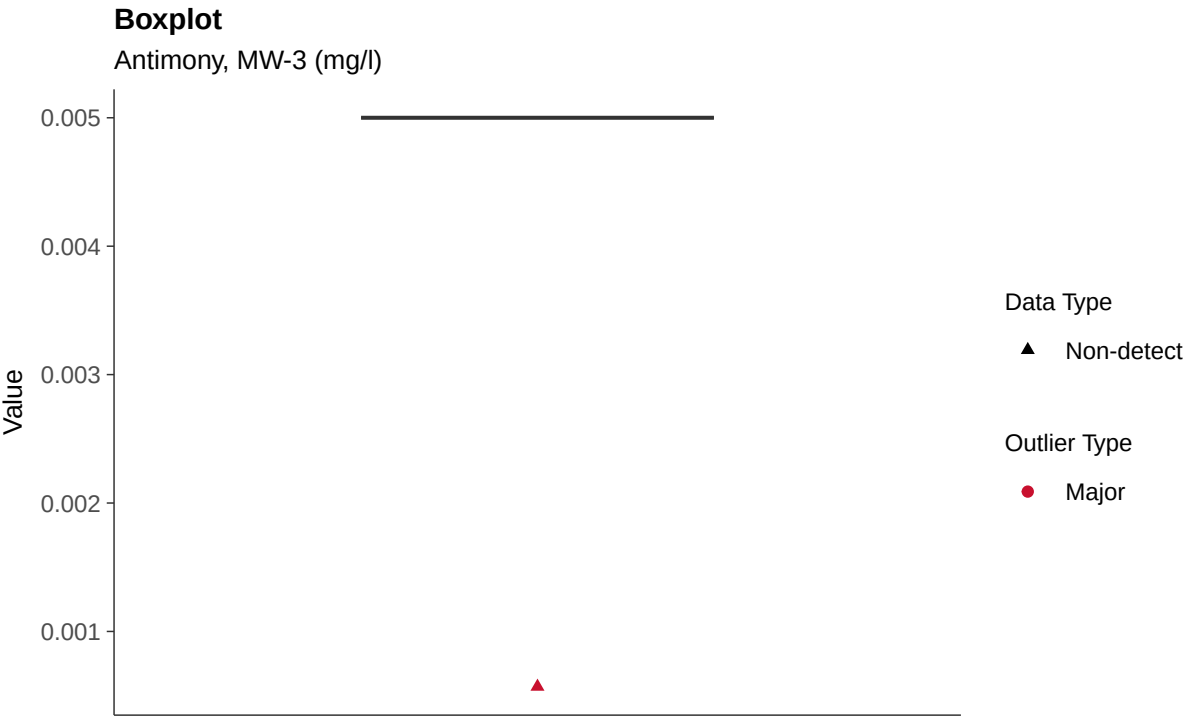




Appendix IV: Antimony, MW-3

ID: 12_3_101

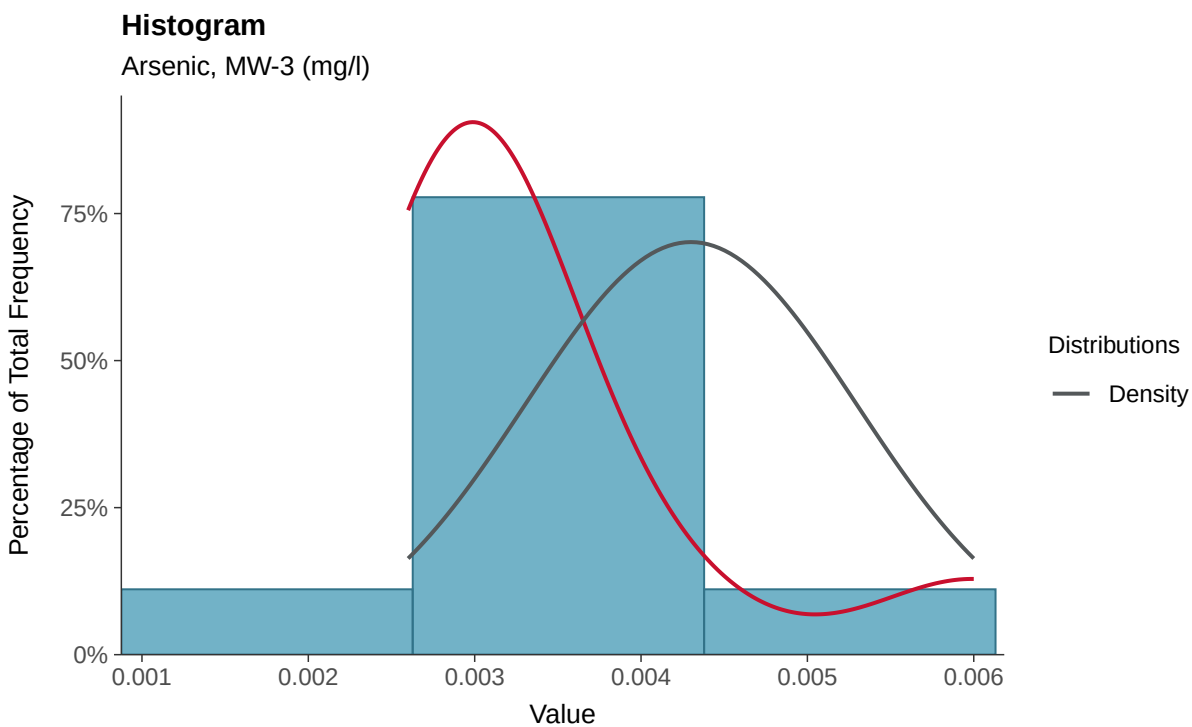
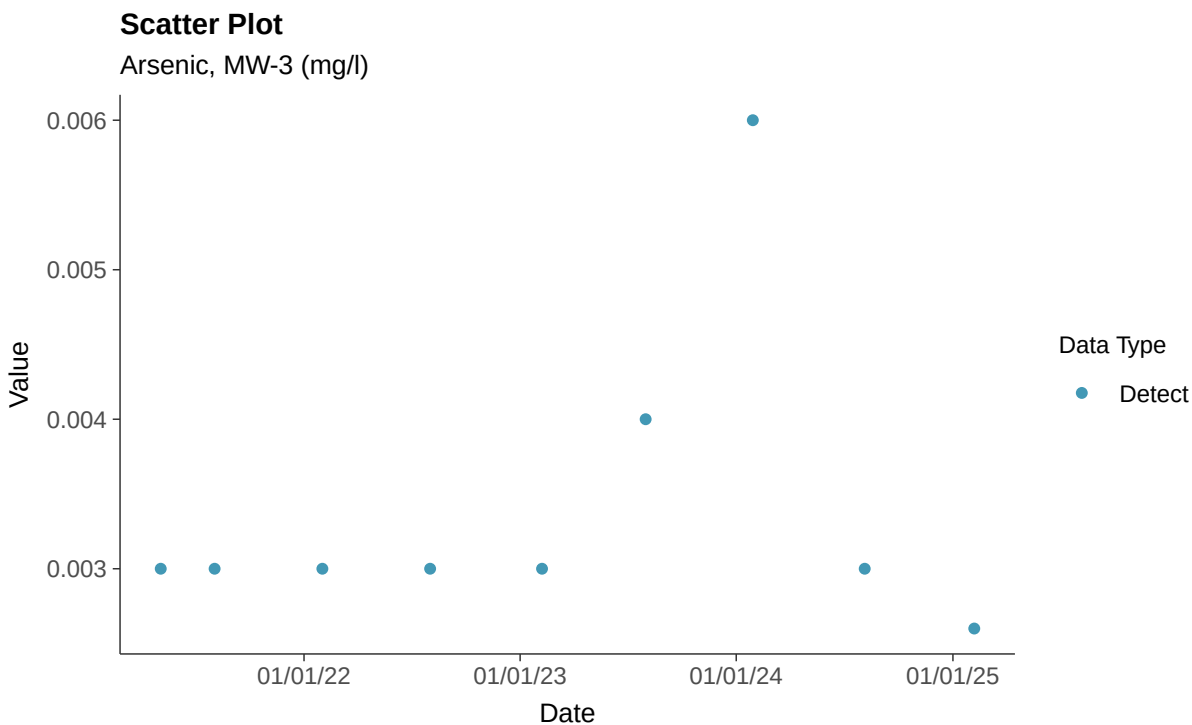


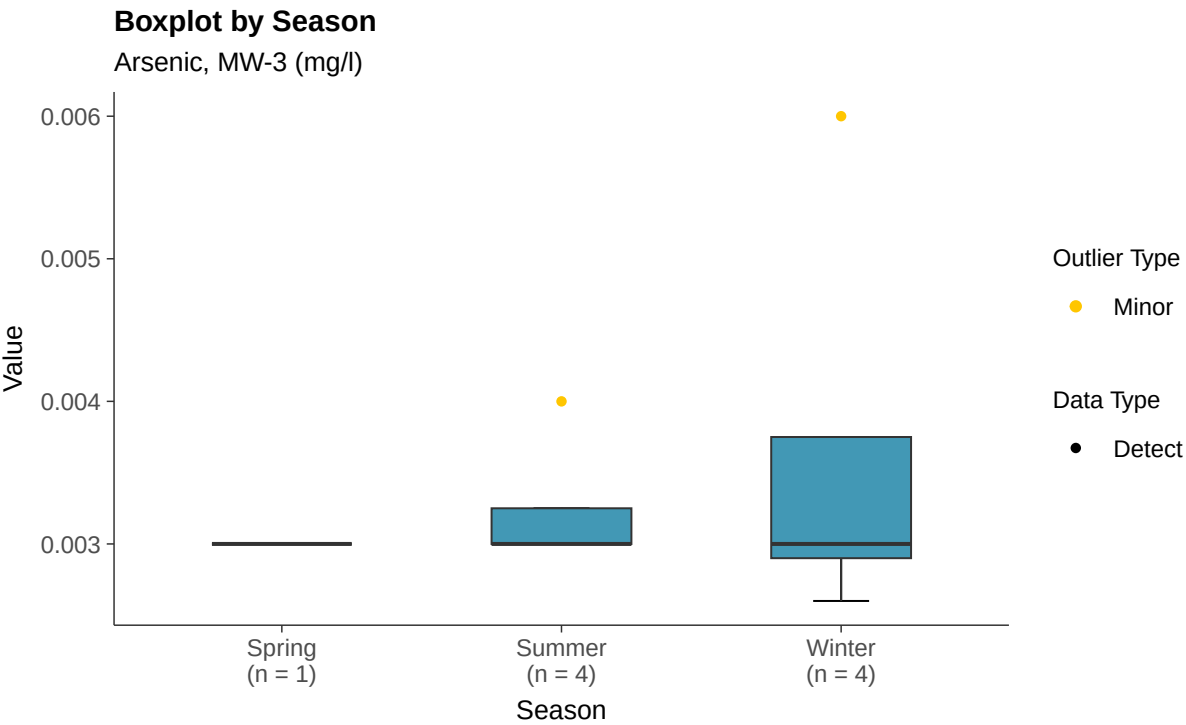
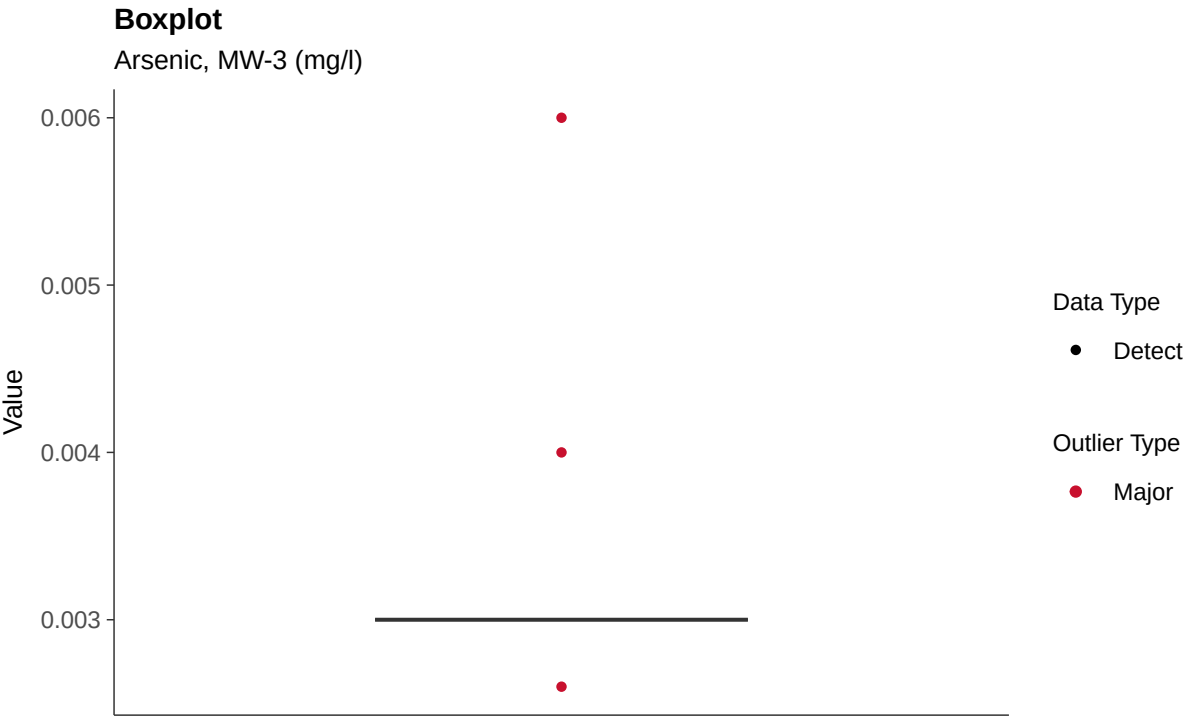


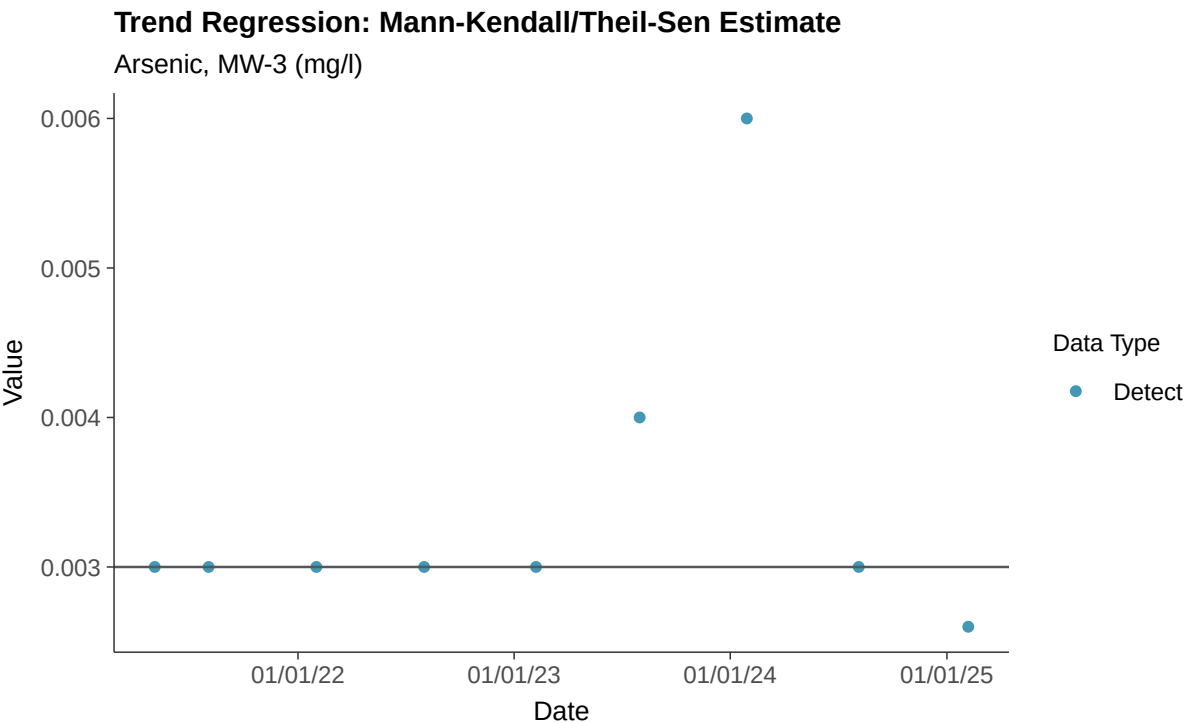
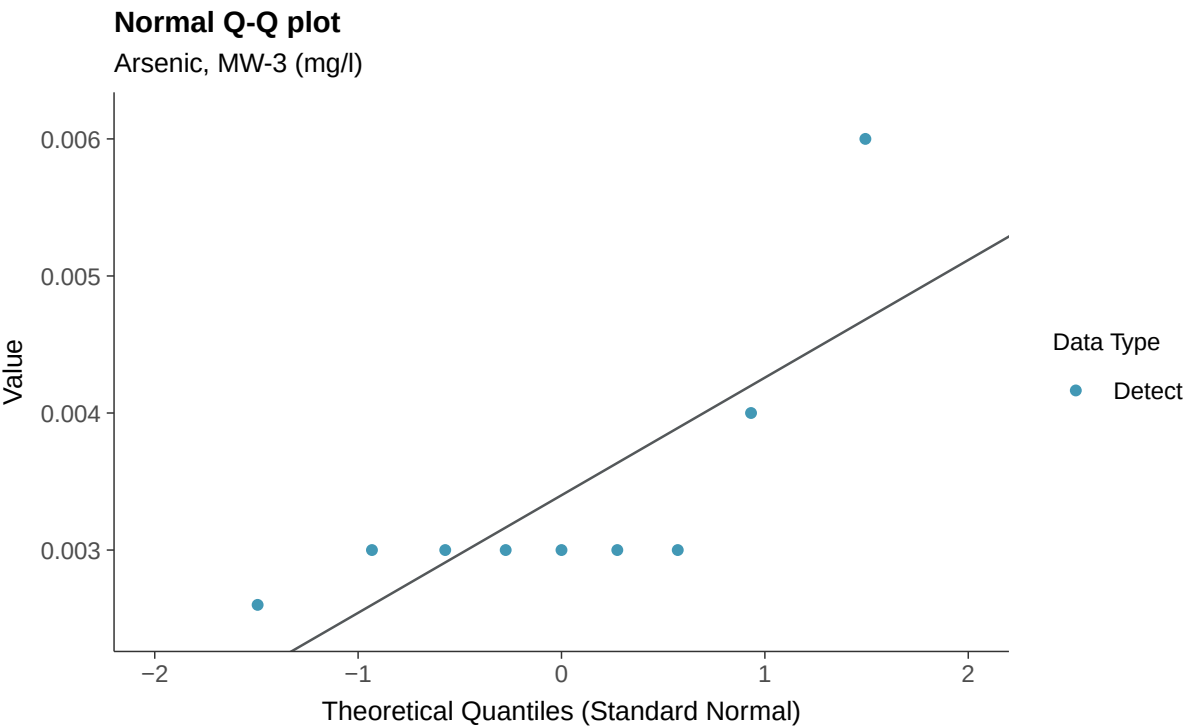


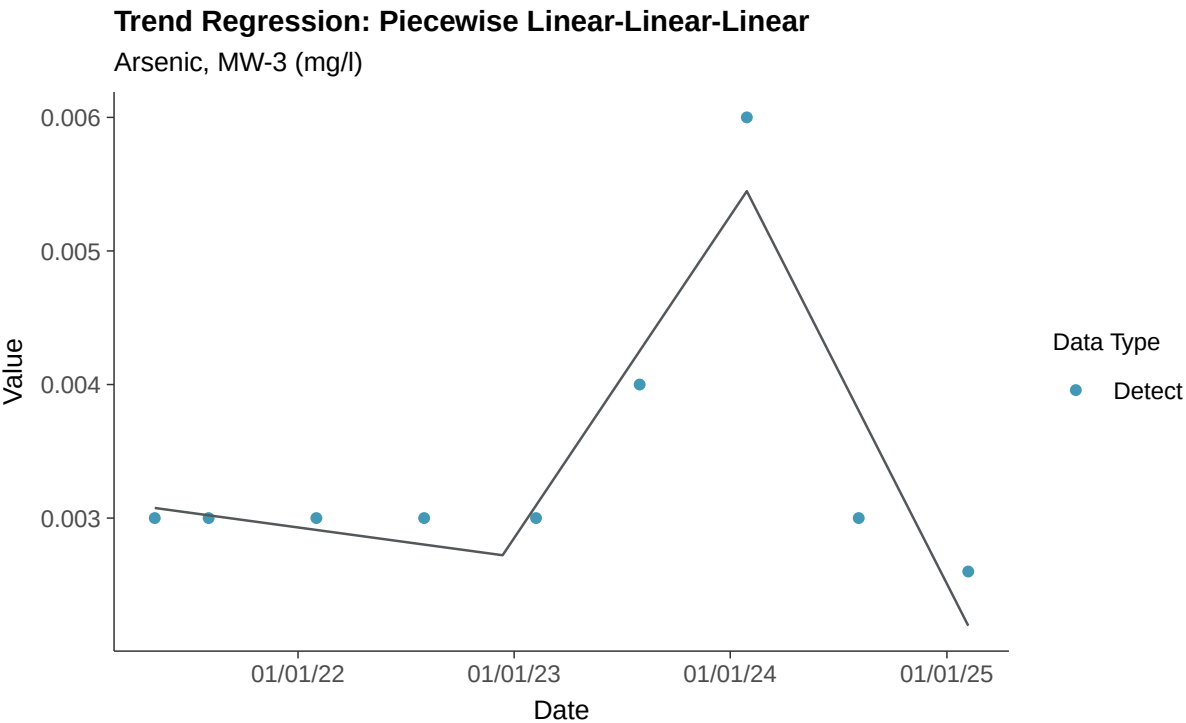
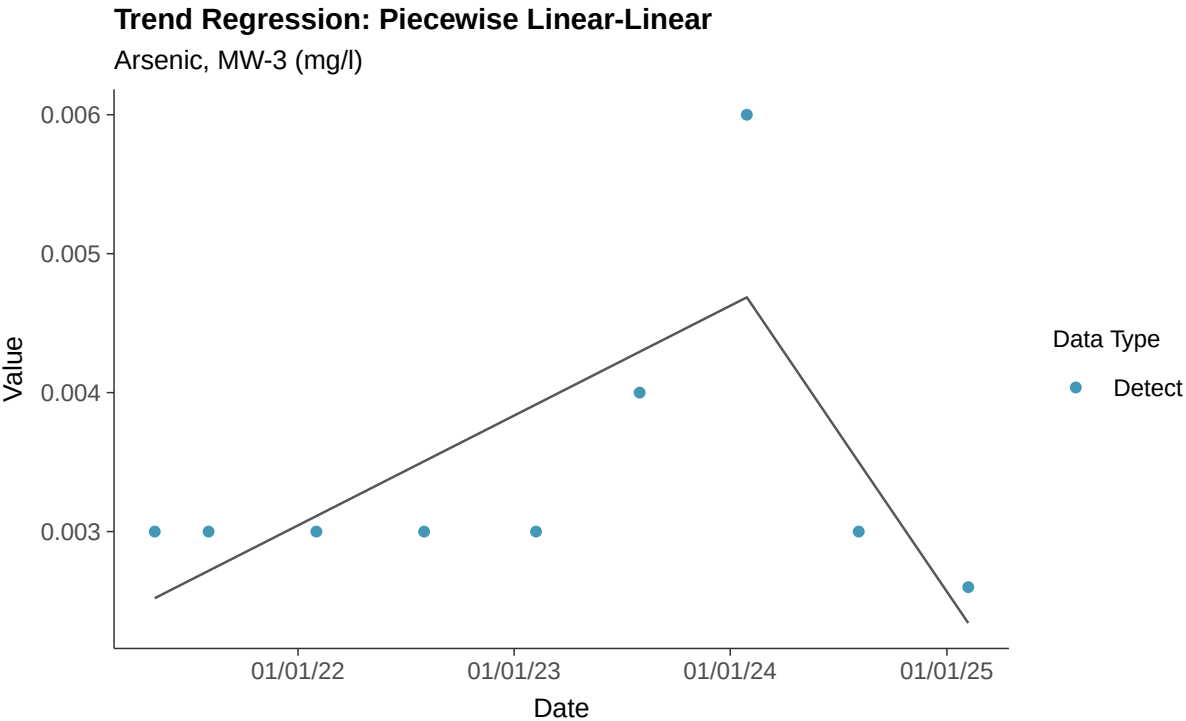
Appendix IV: Arsenic, MW-3

ID: 12_3_102





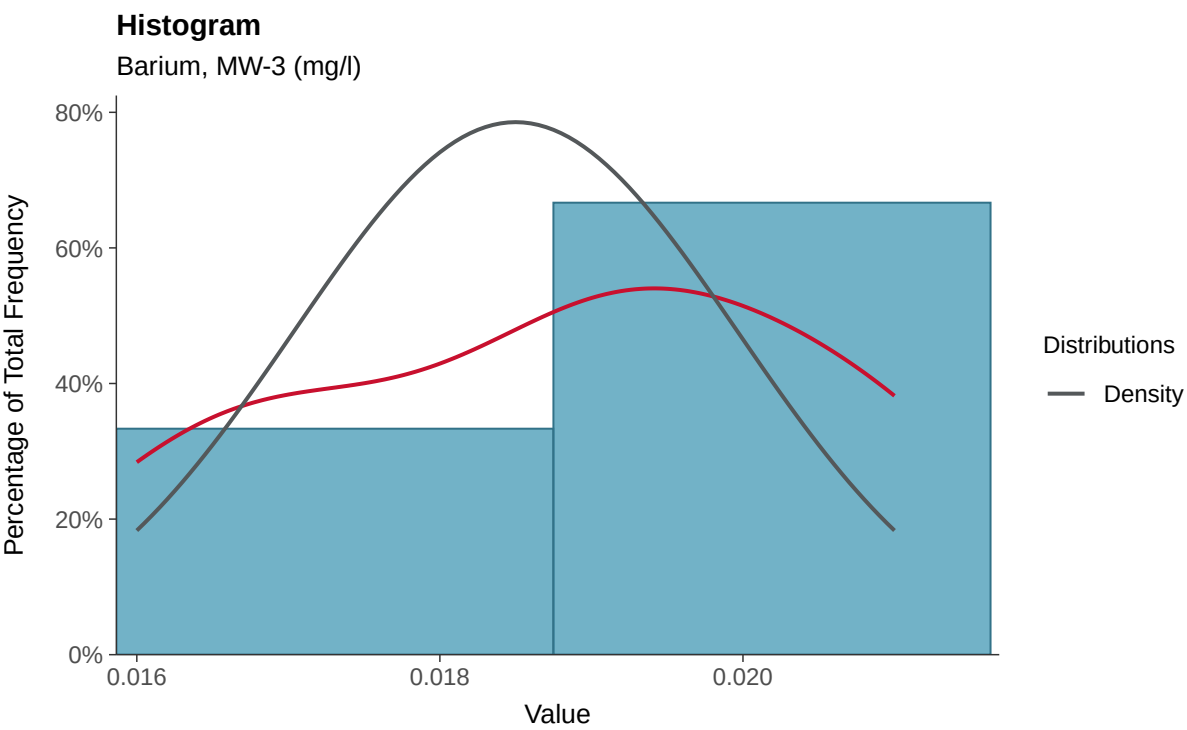
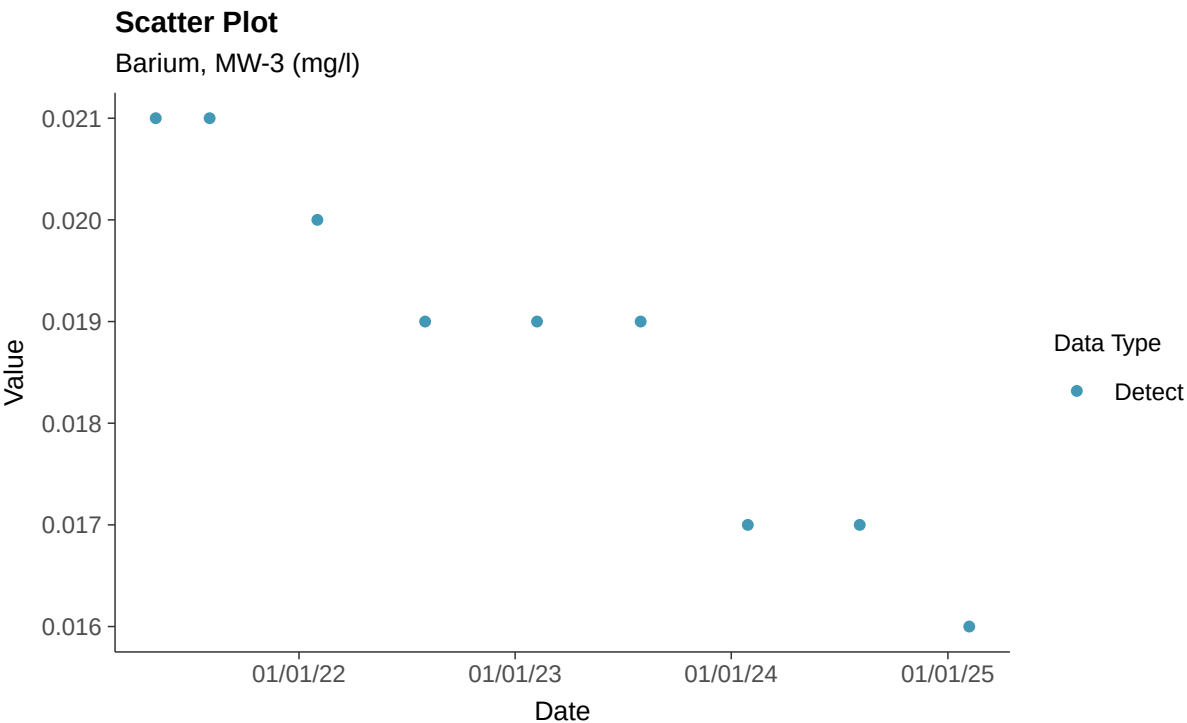


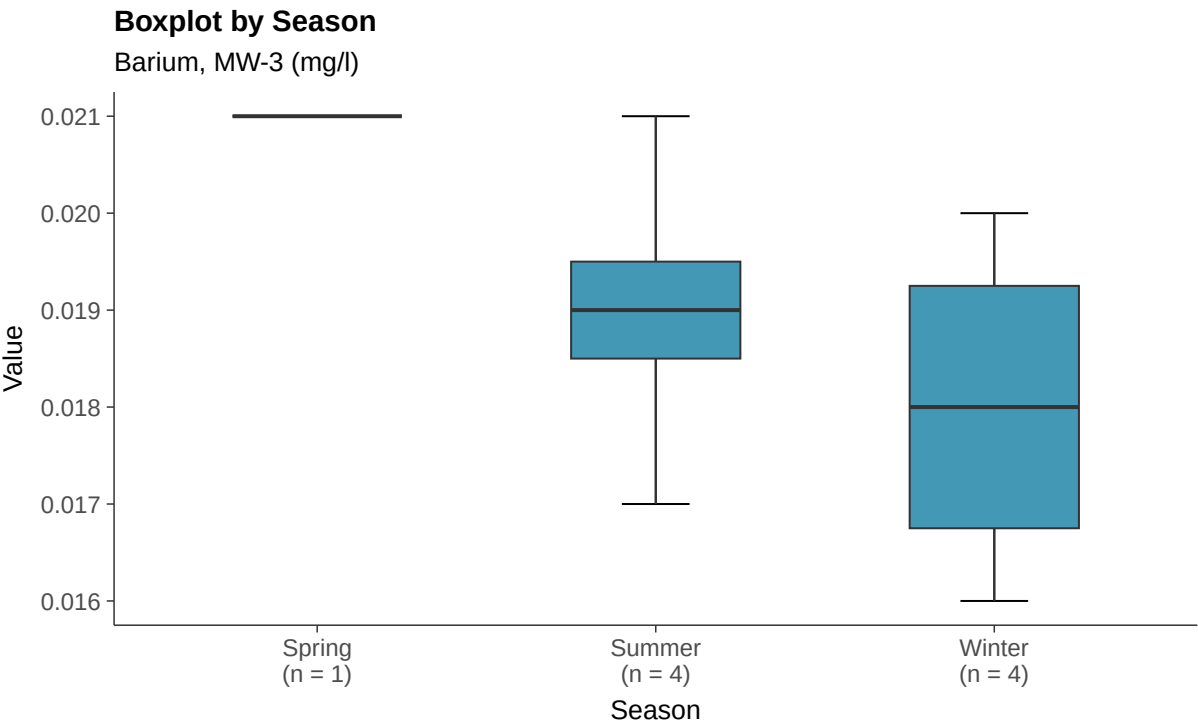
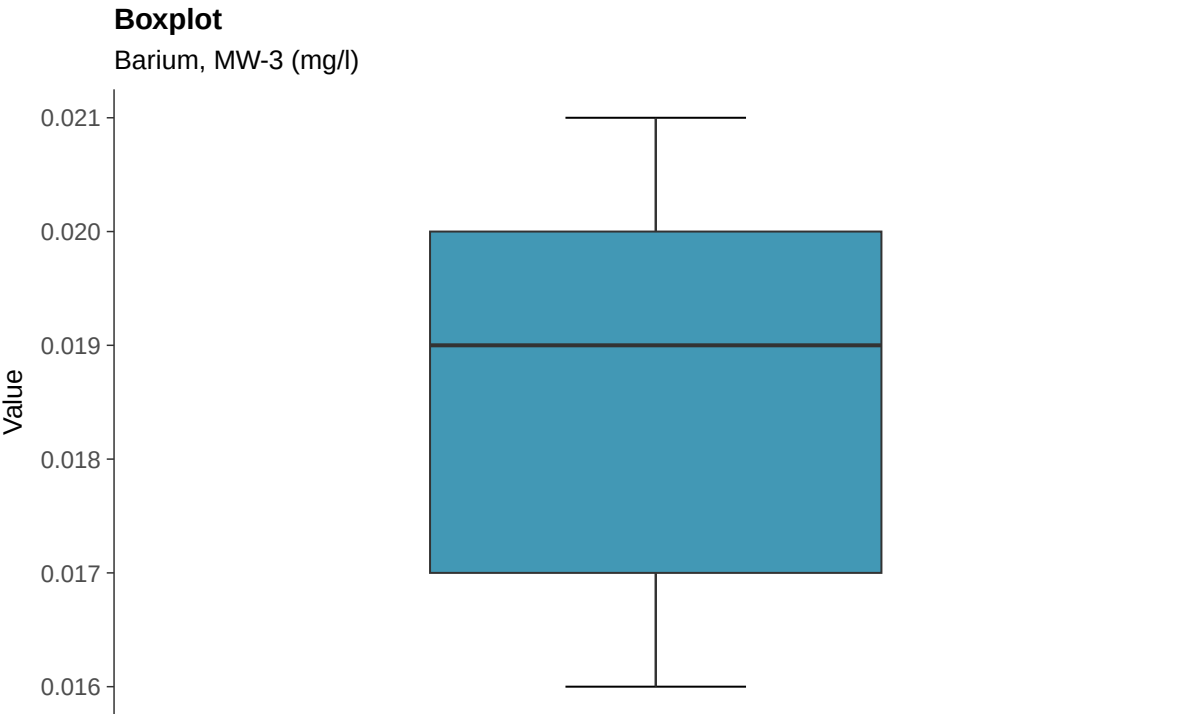


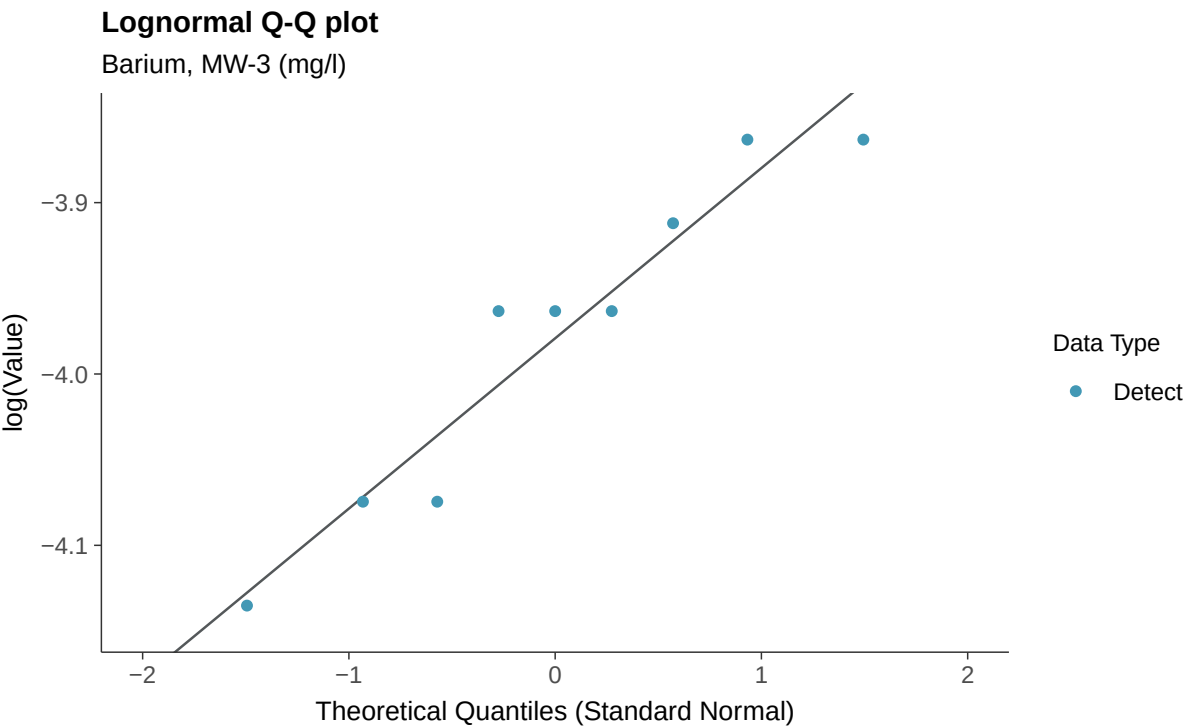
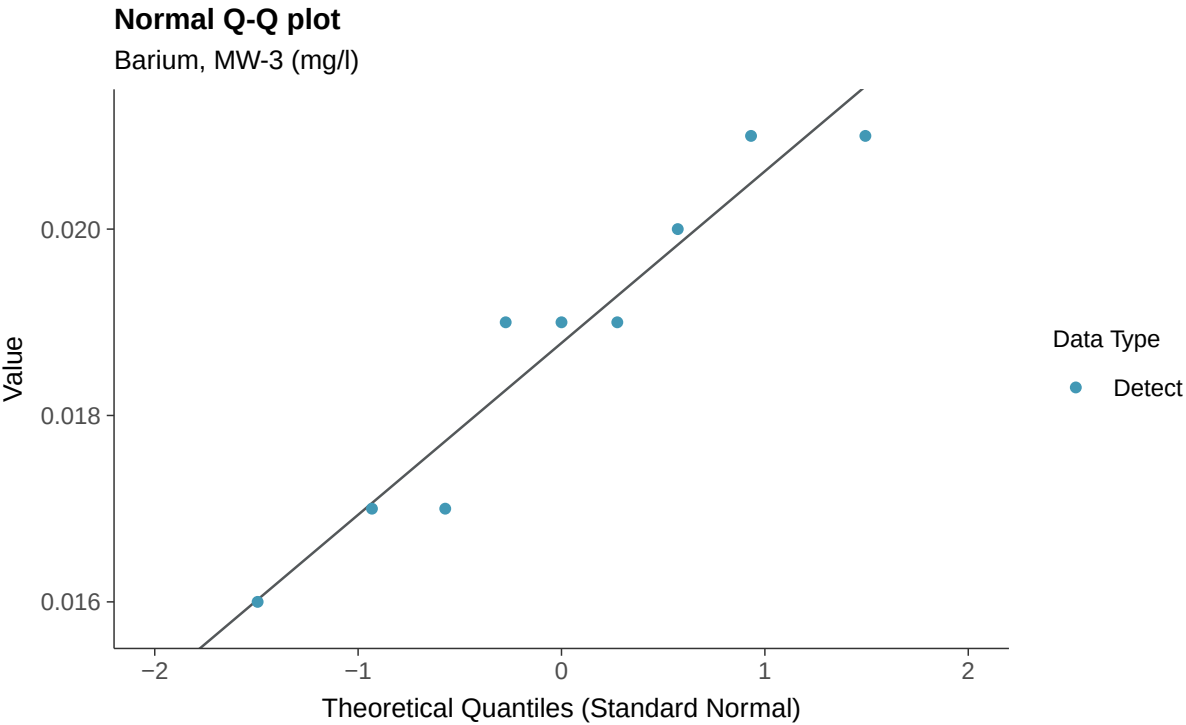


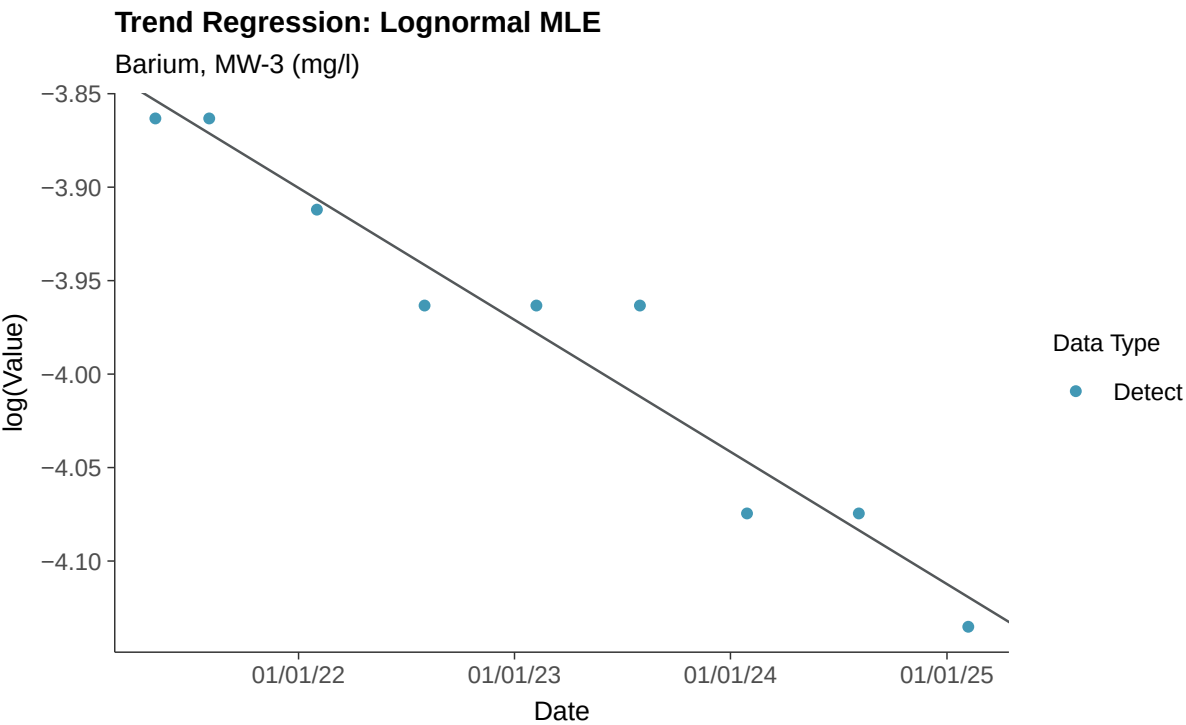
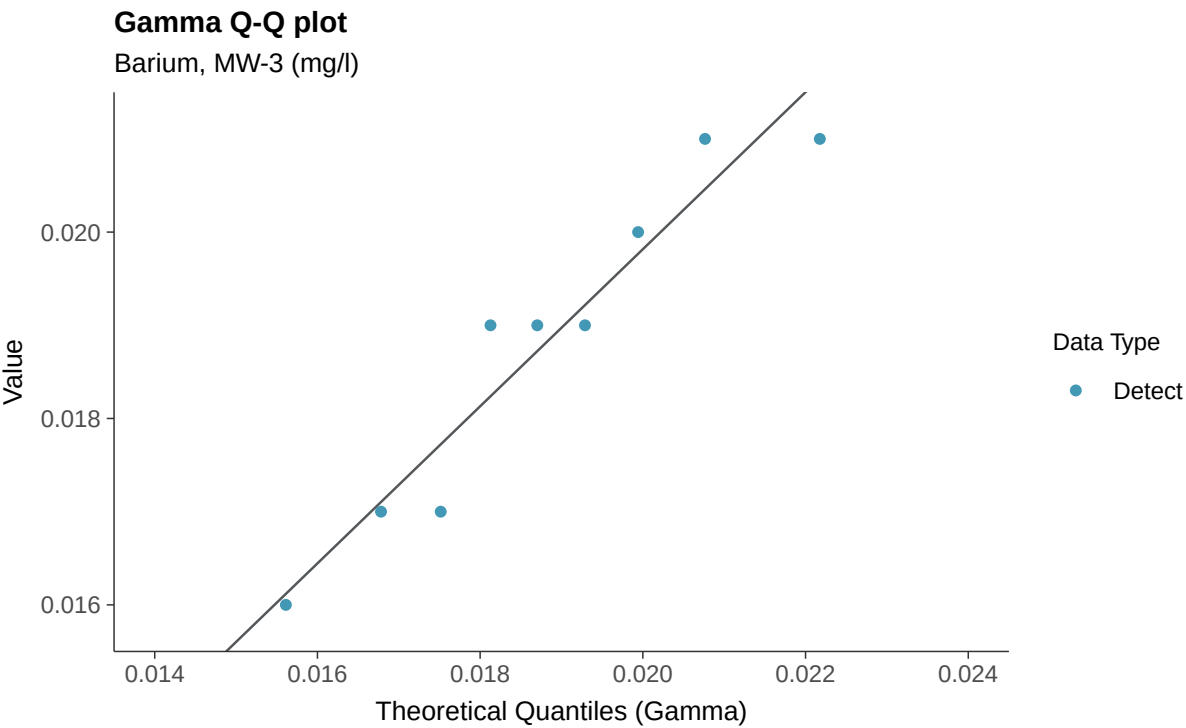
Appendix IV: Barium, MW-3

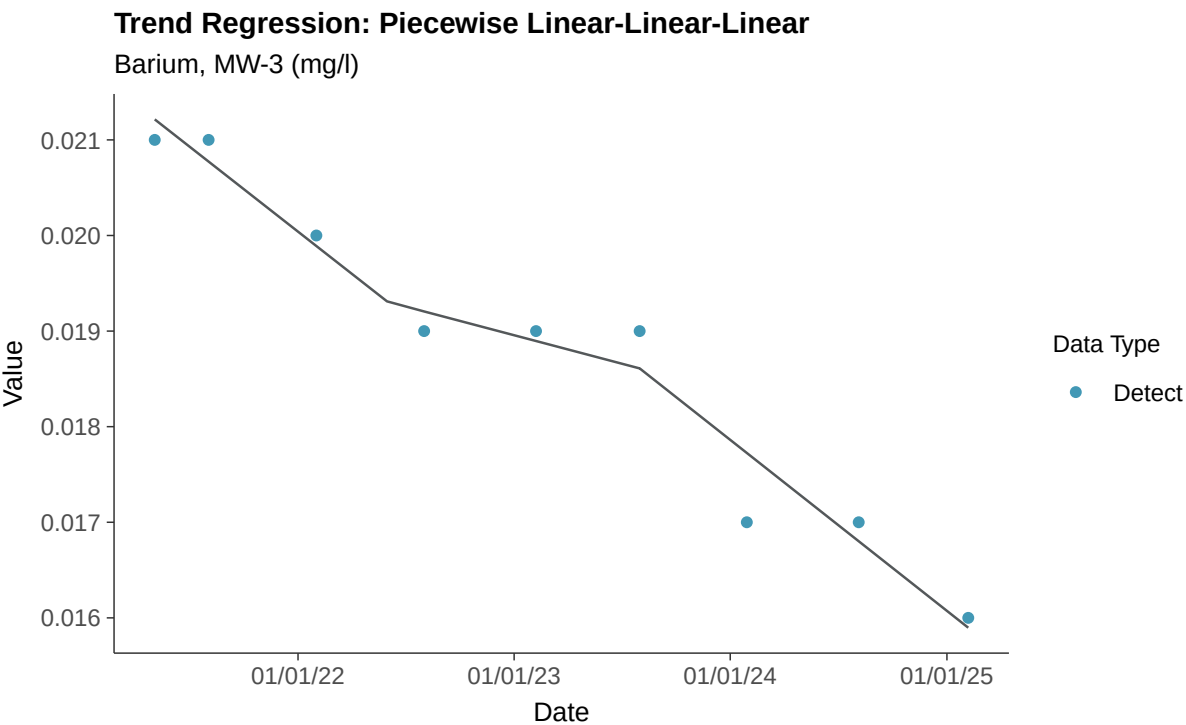
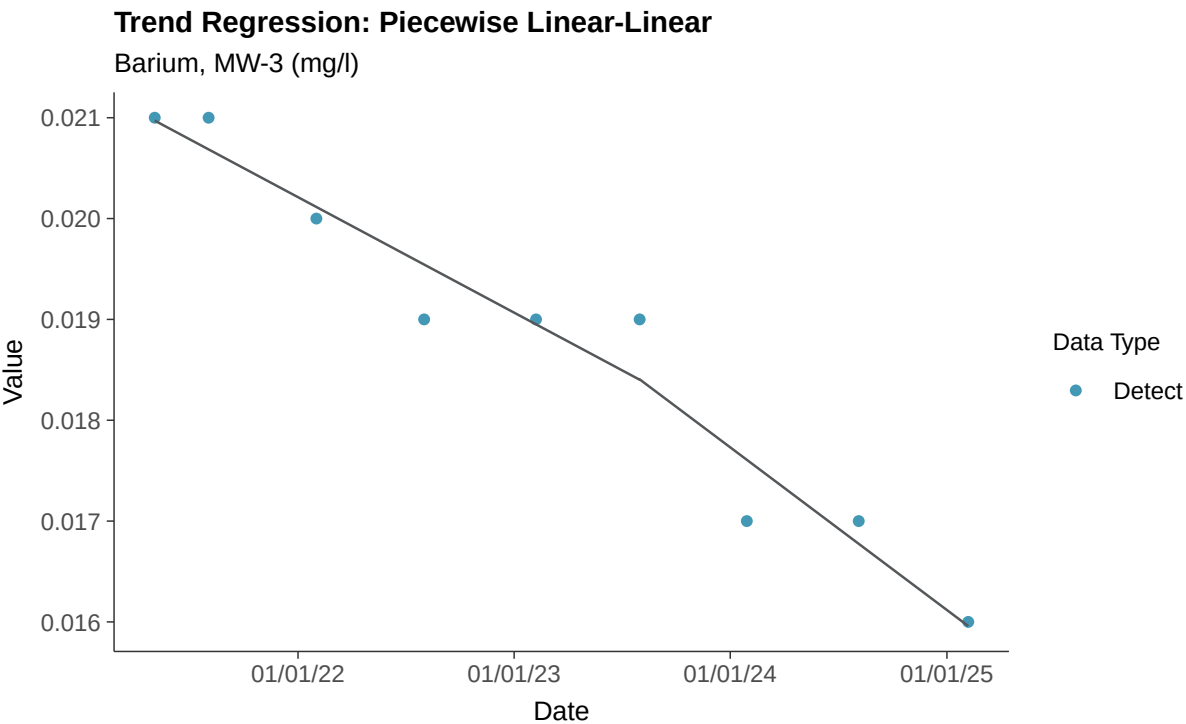
ID: 12_3_103







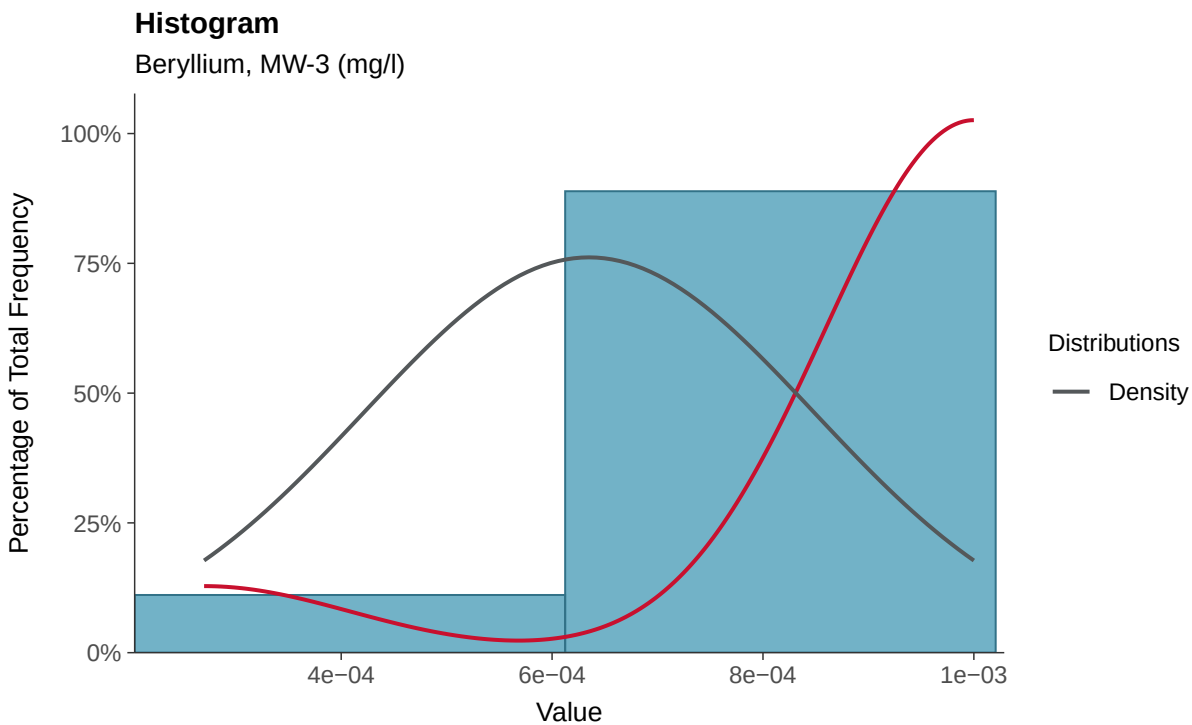
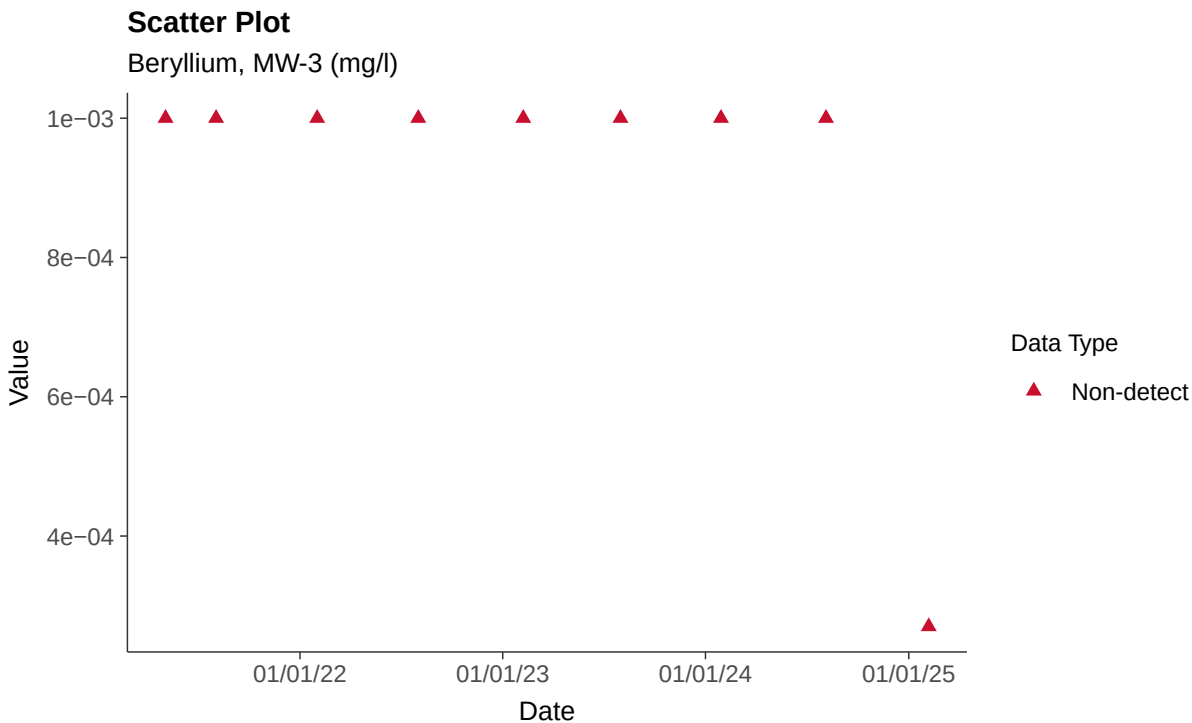


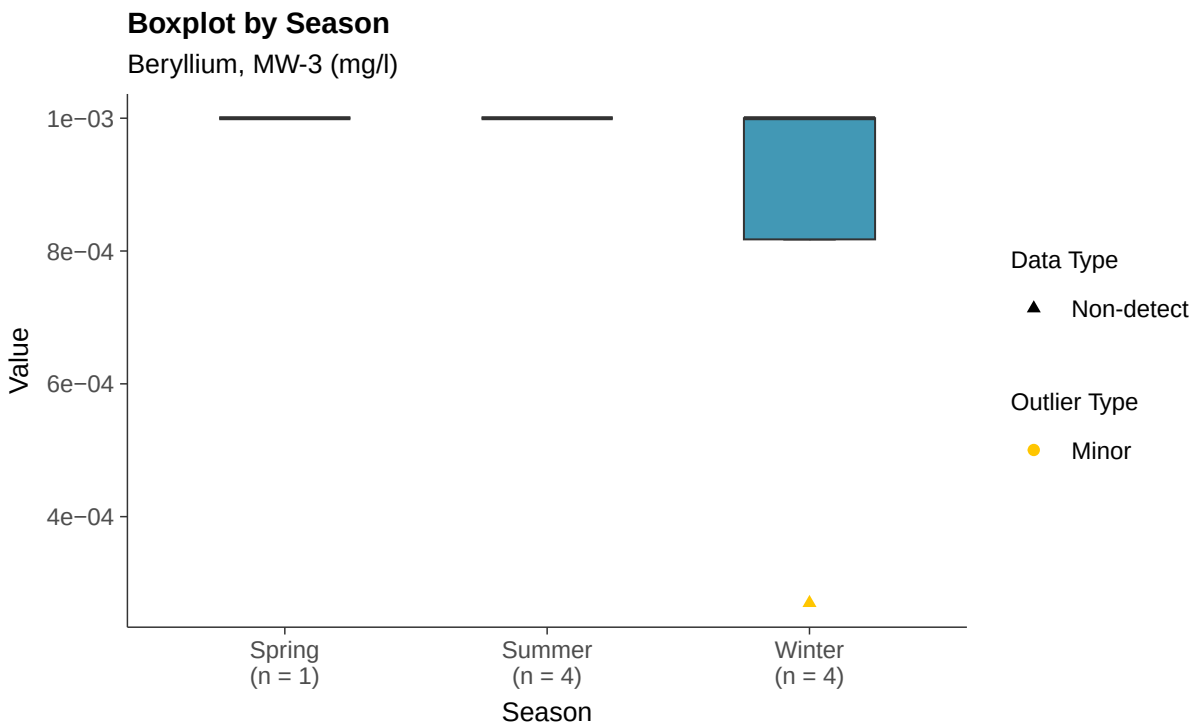
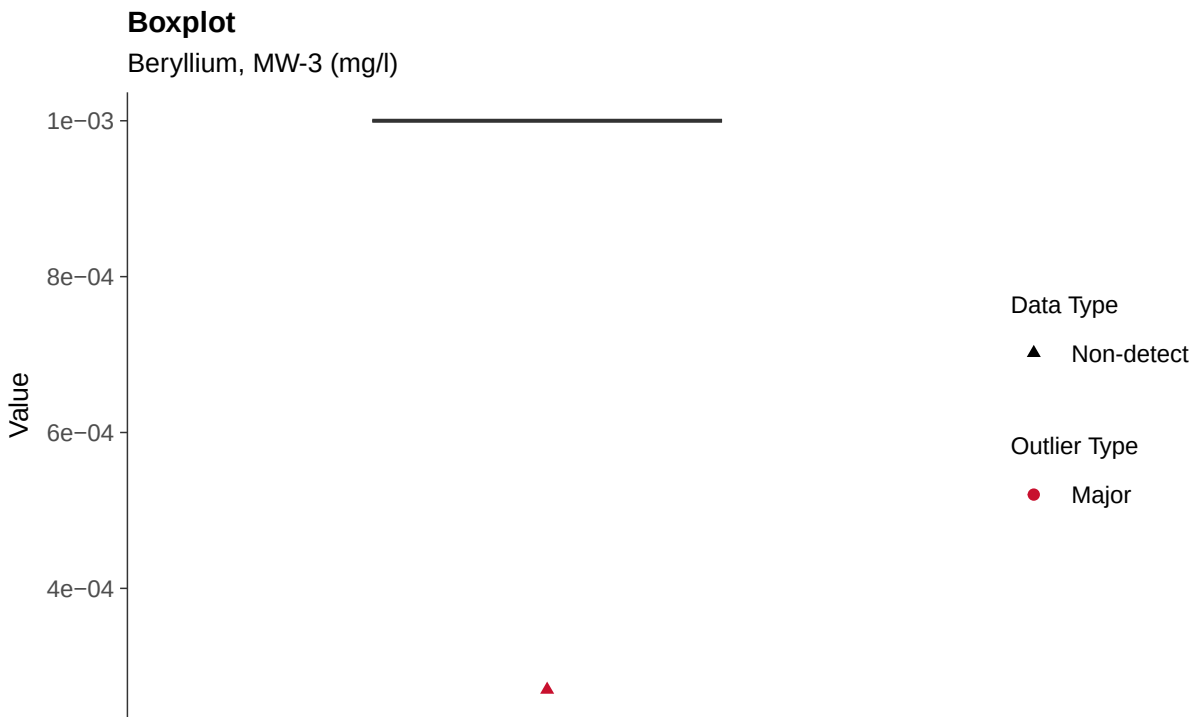




Appendix IV: Beryllium, MW-3

ID: 12_3_104

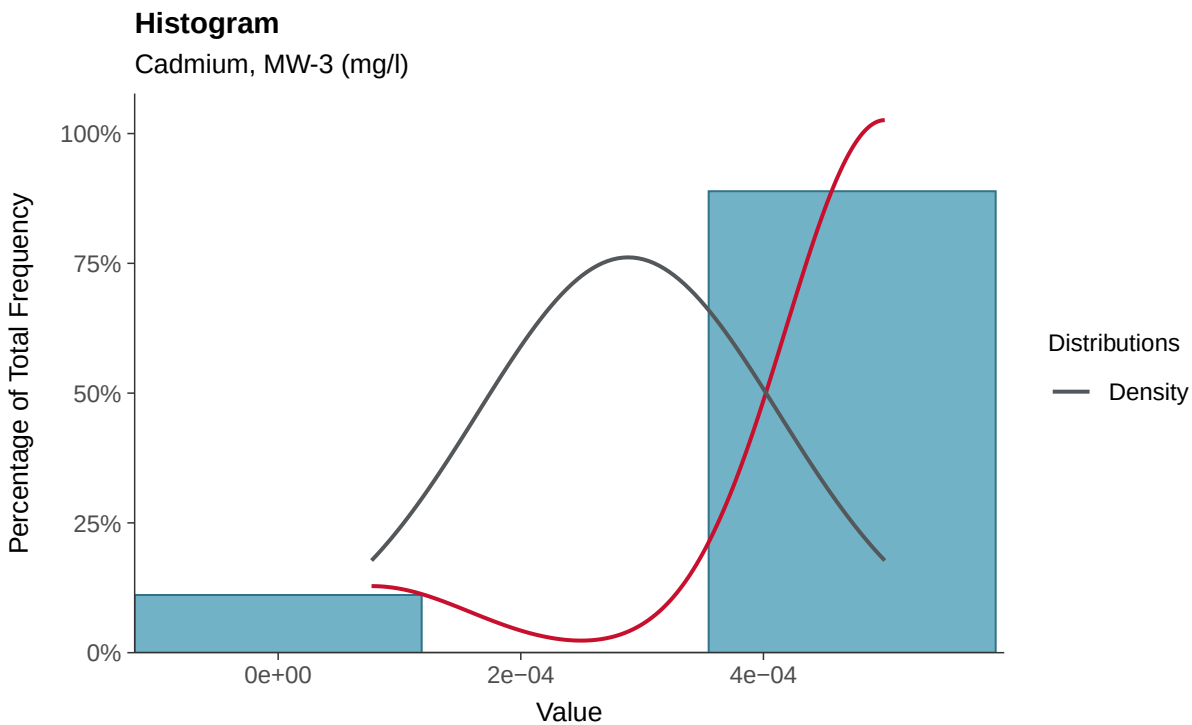
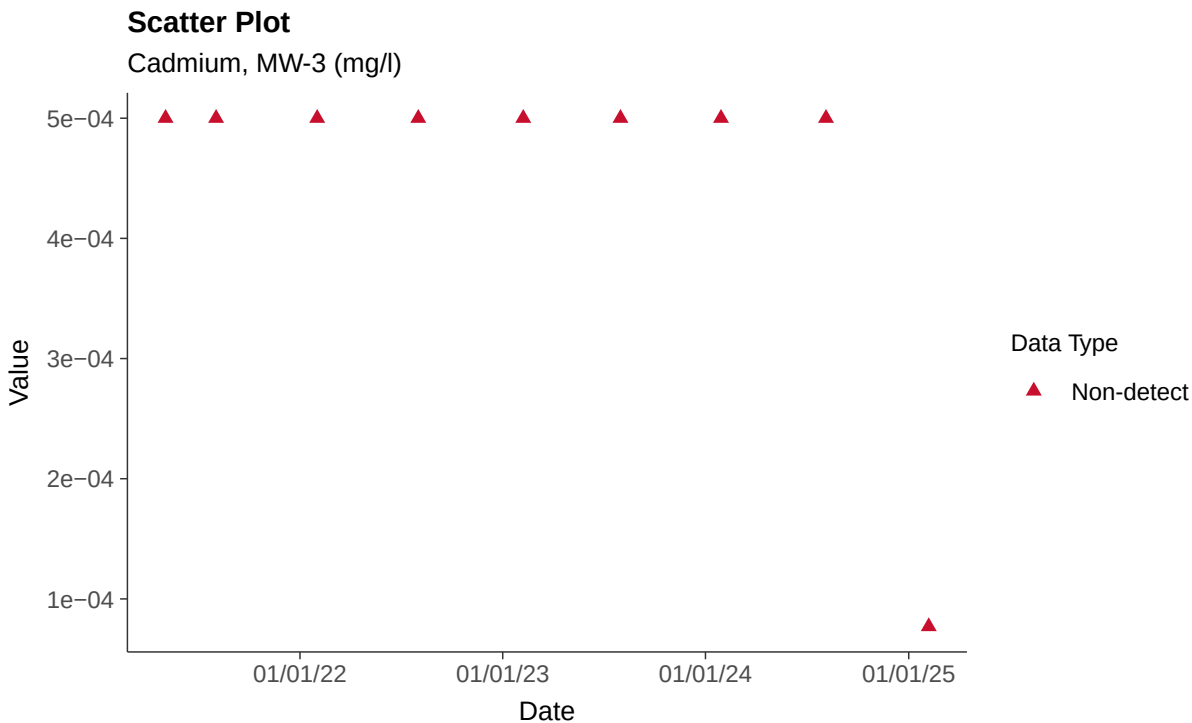


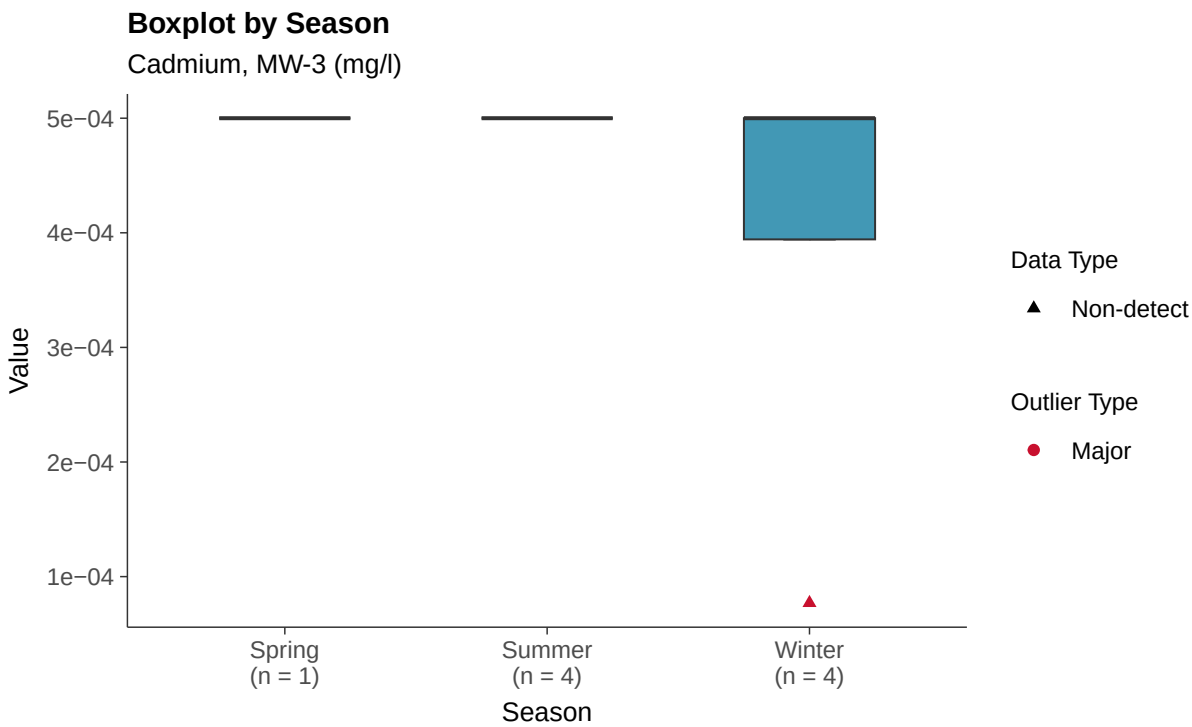
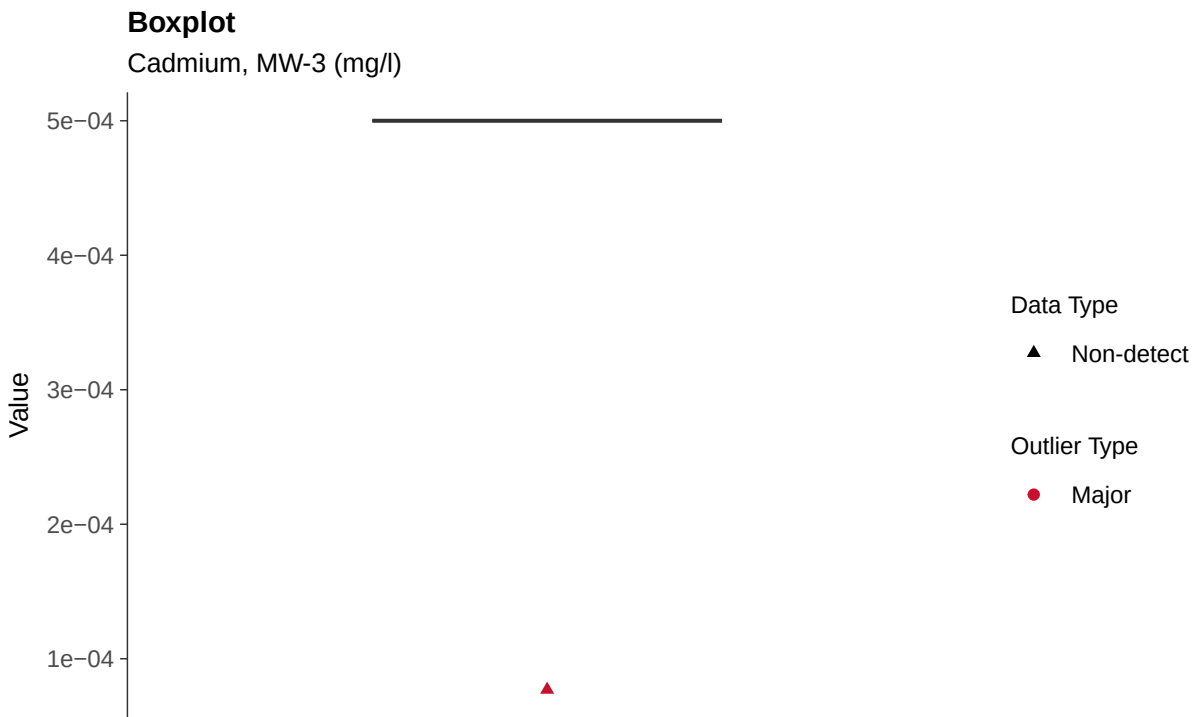




Appendix IV: Cadmium, MW-3

ID: 12_3_106

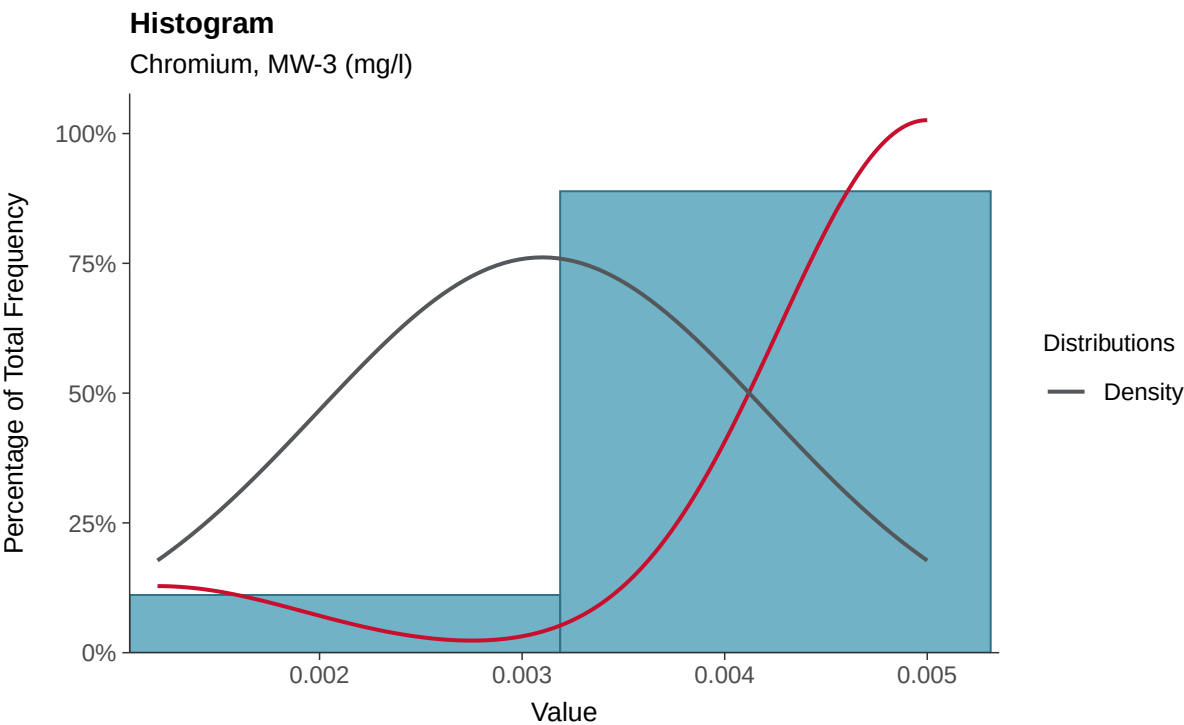
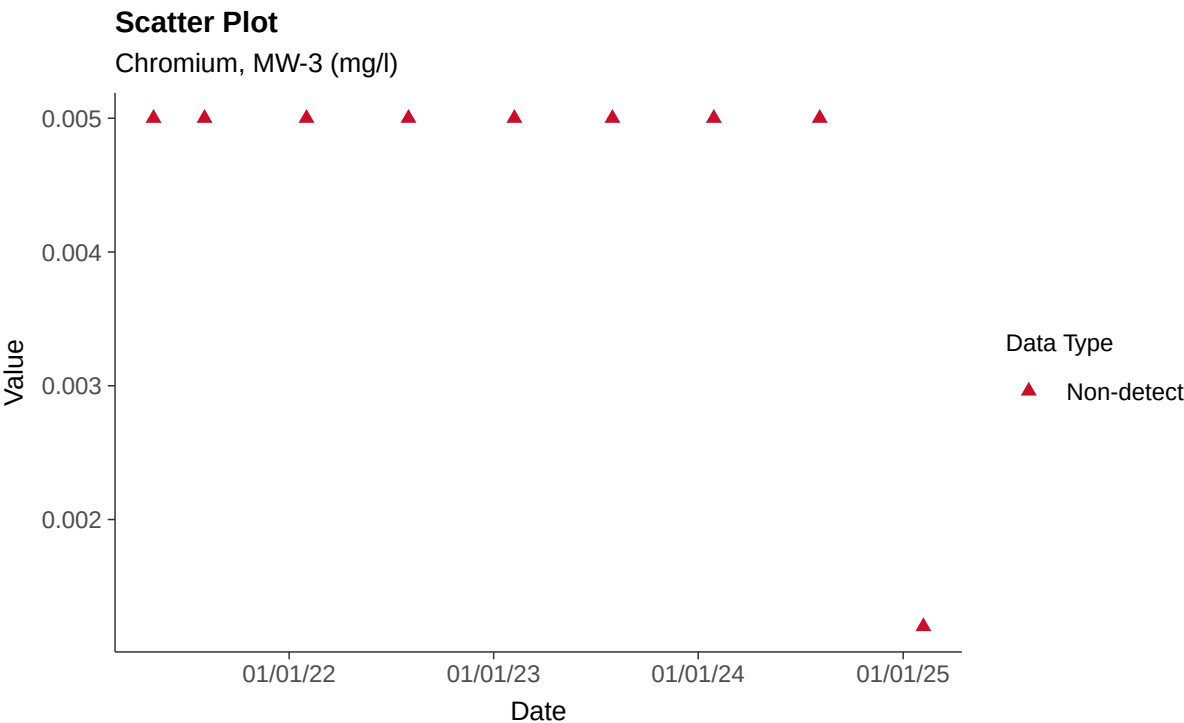


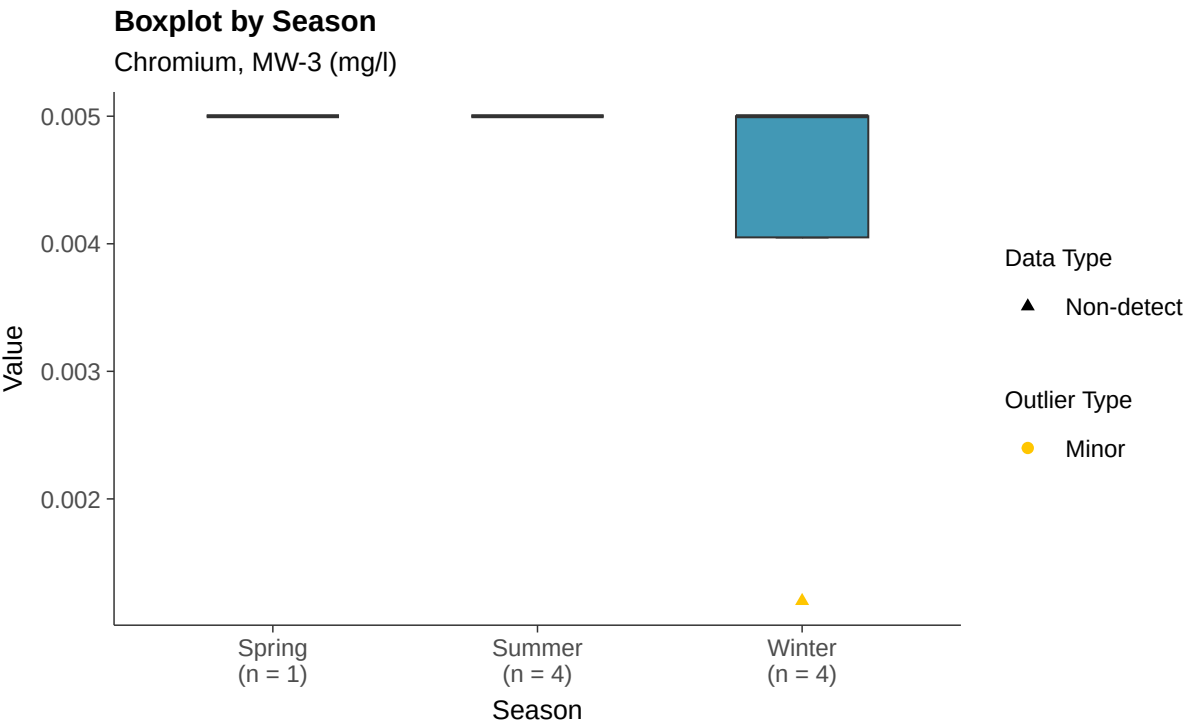
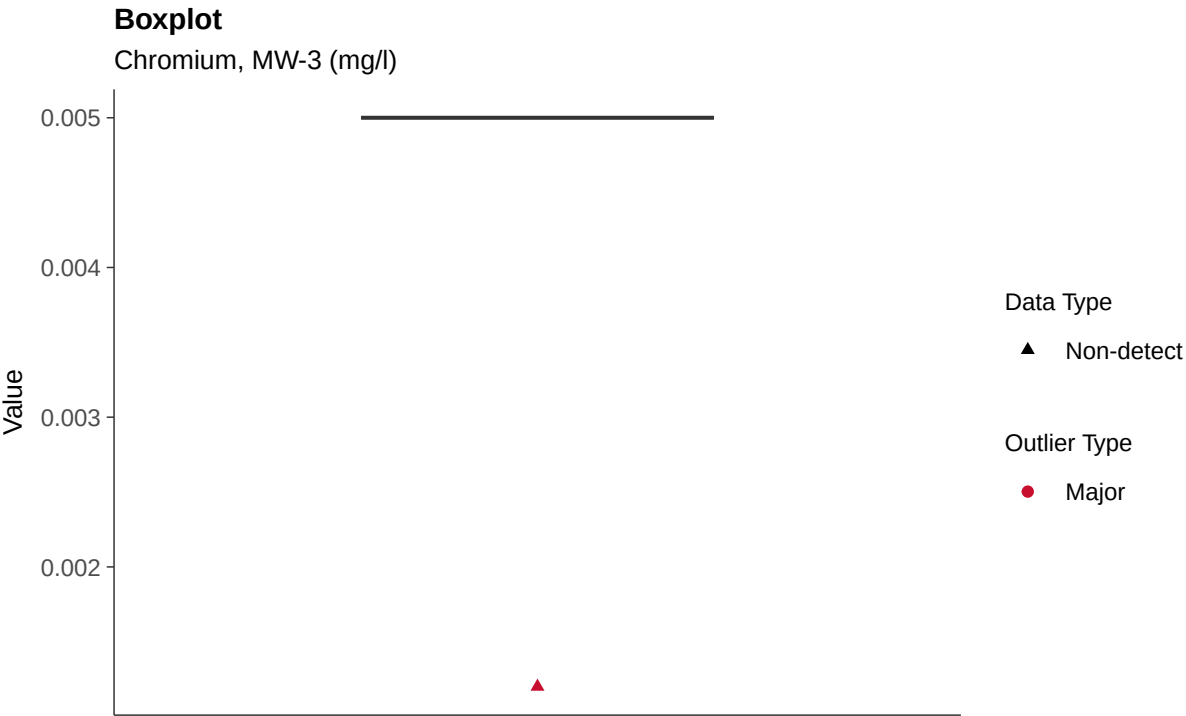




Appendix IV: Chromium, MW-3

ID: 12_3_109

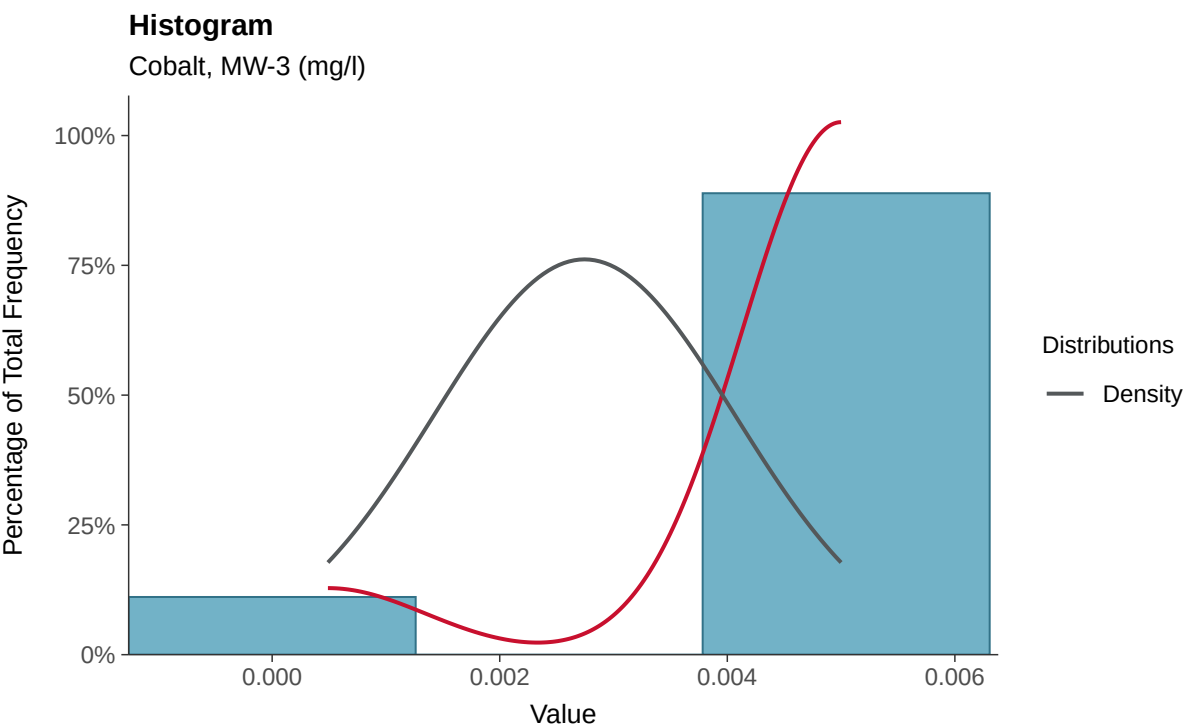
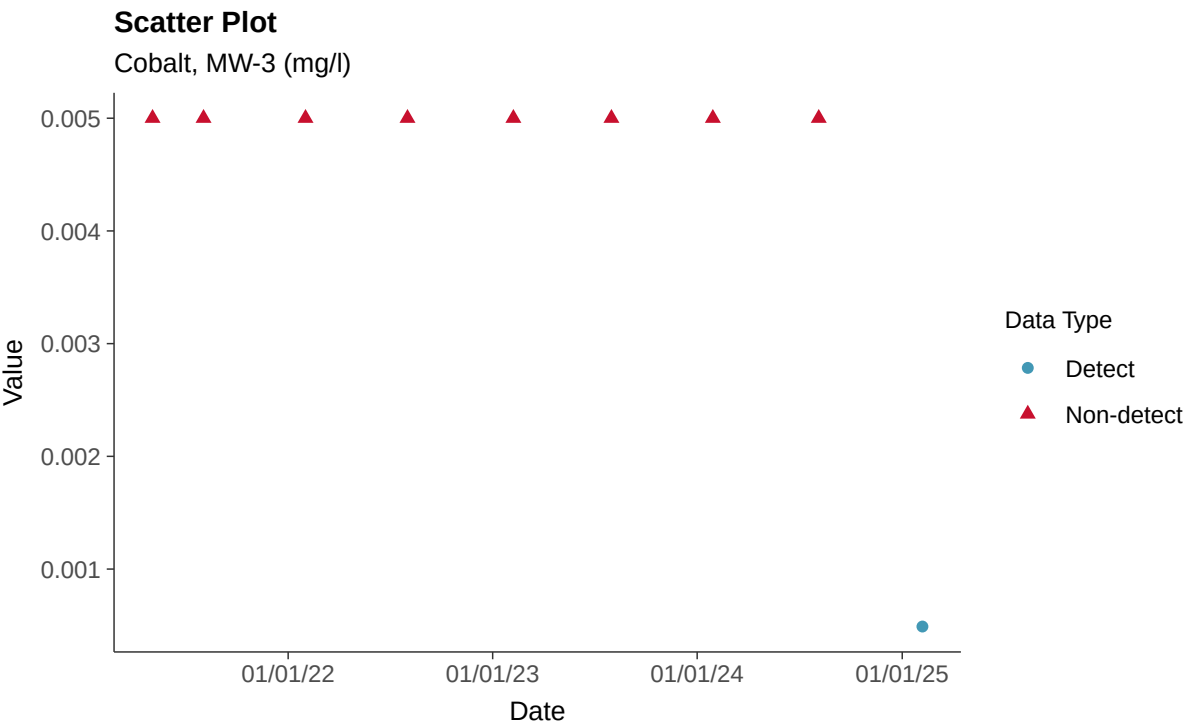


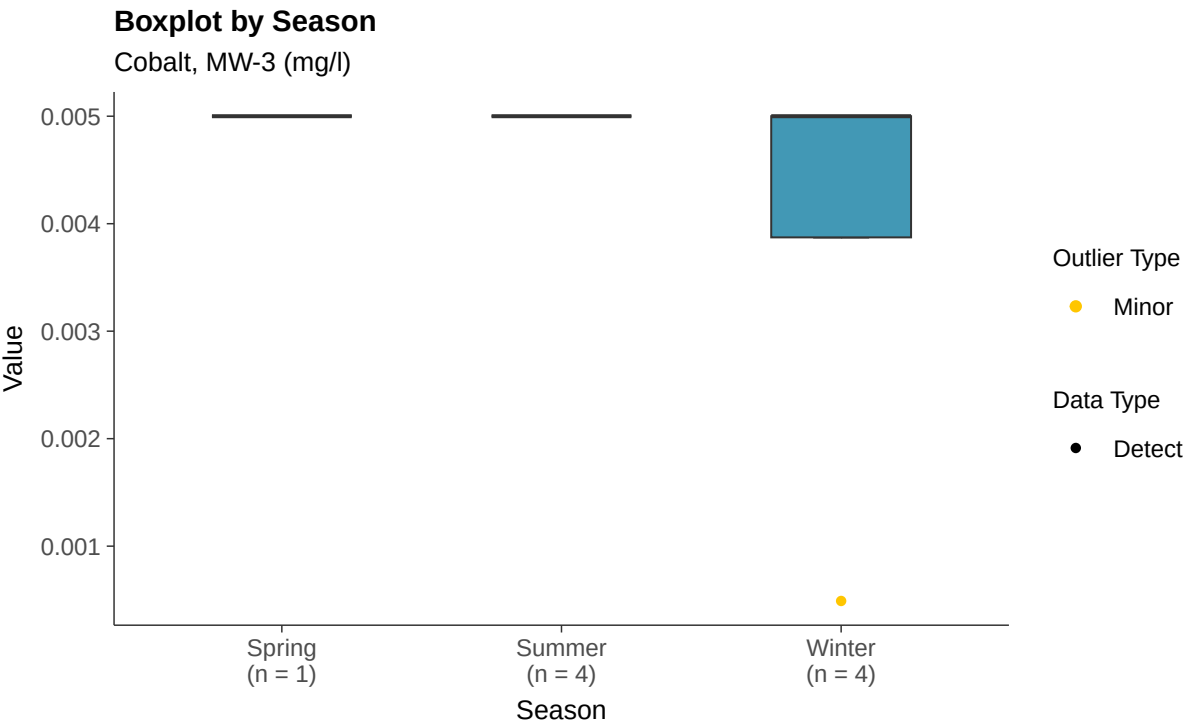
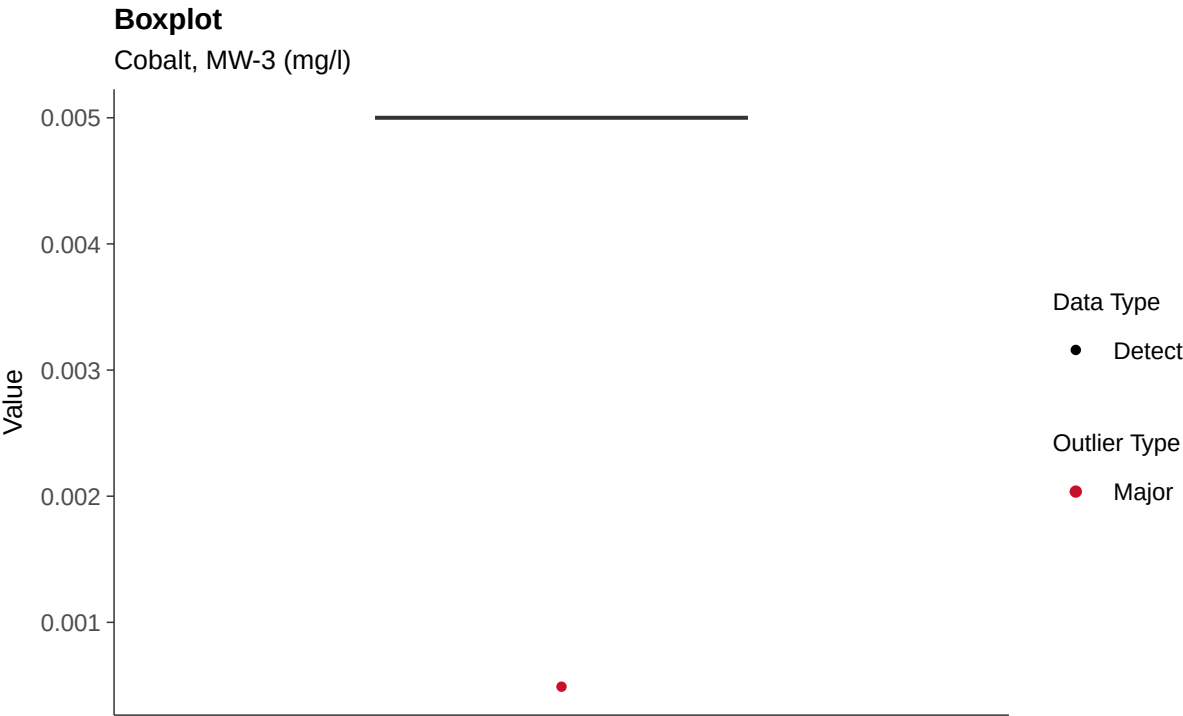




Appendix IV: Cobalt, MW-3

ID: 12_3_110

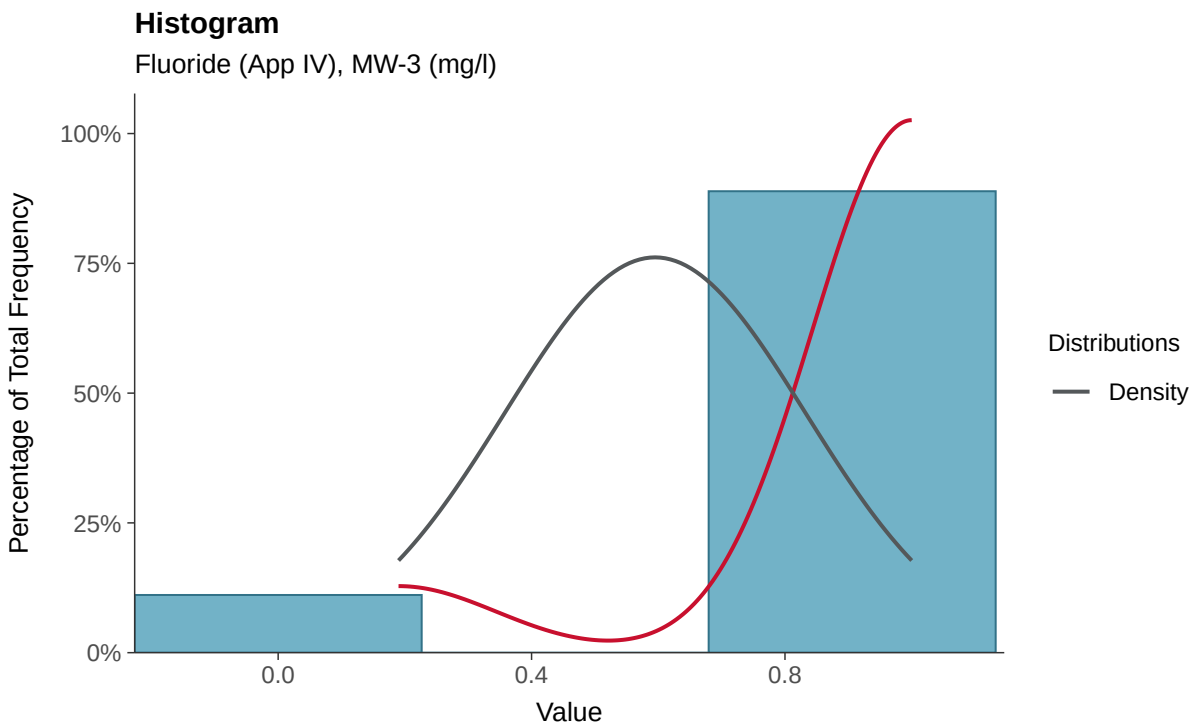
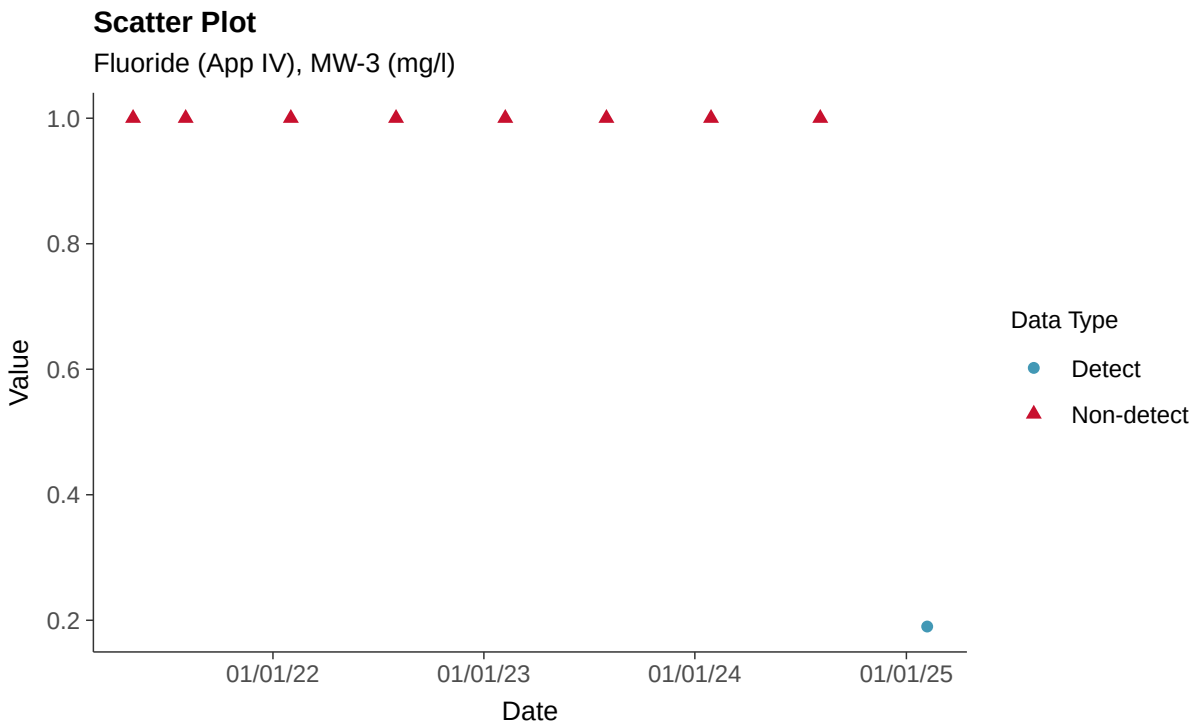


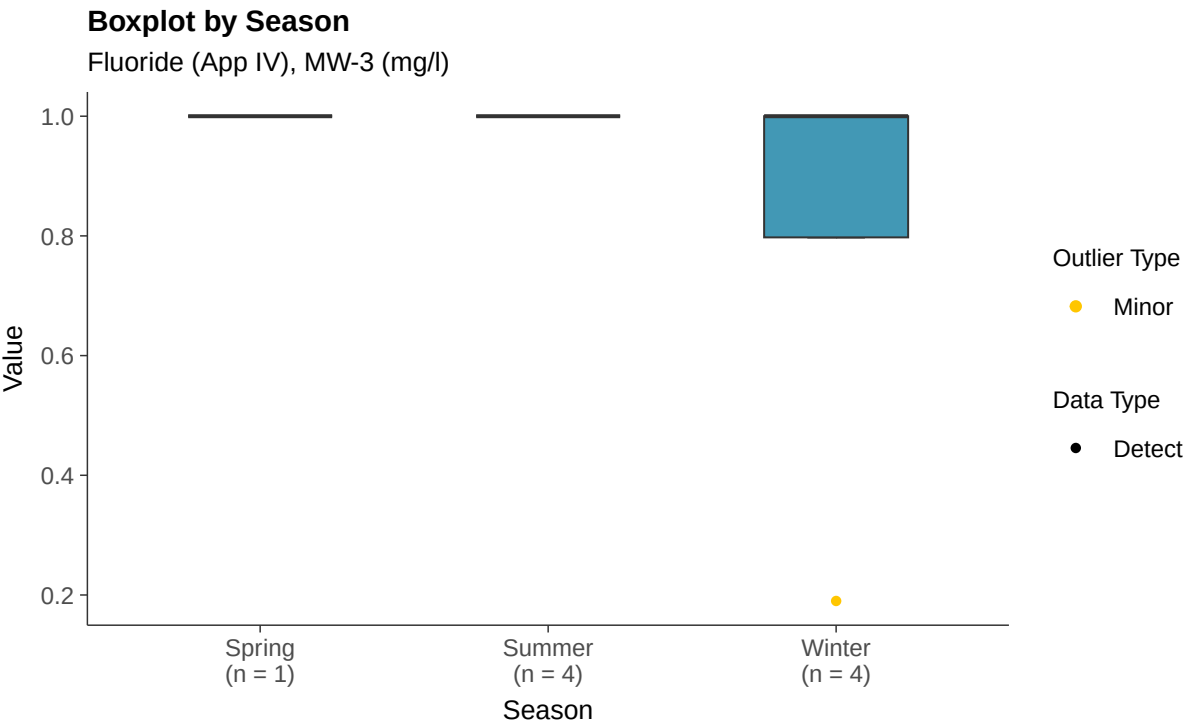
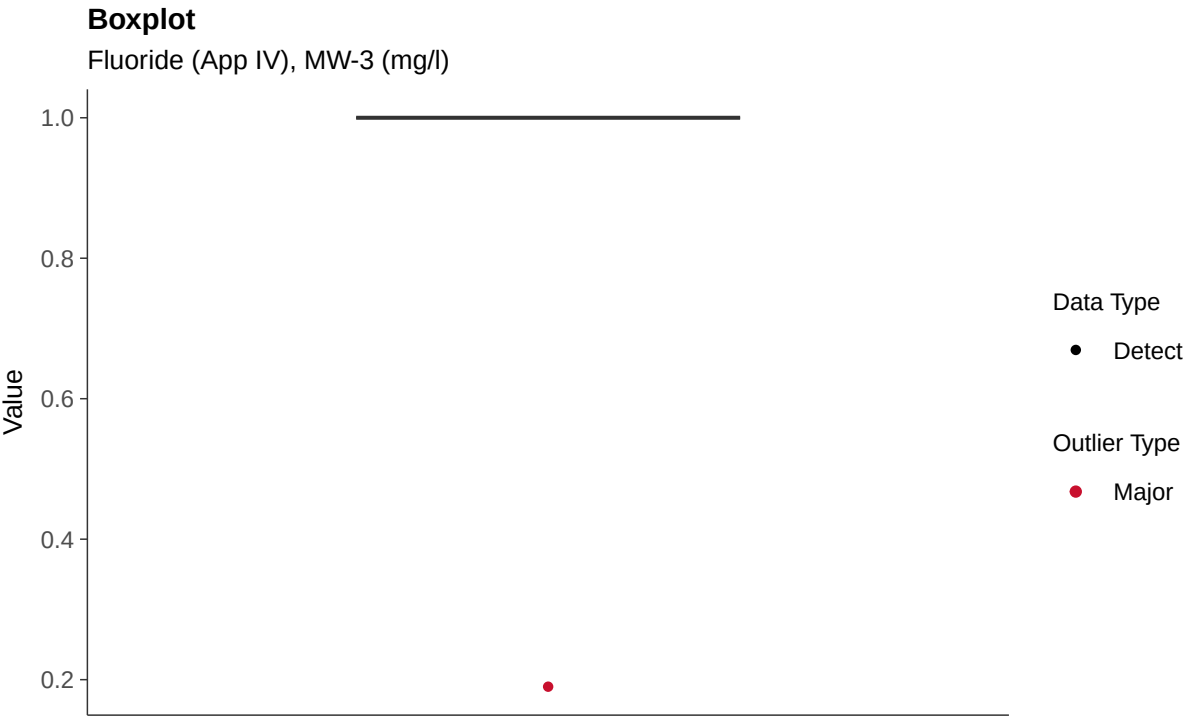




Appendix IV: Fluoride (App IV), MW-3

ID: 12_3_113

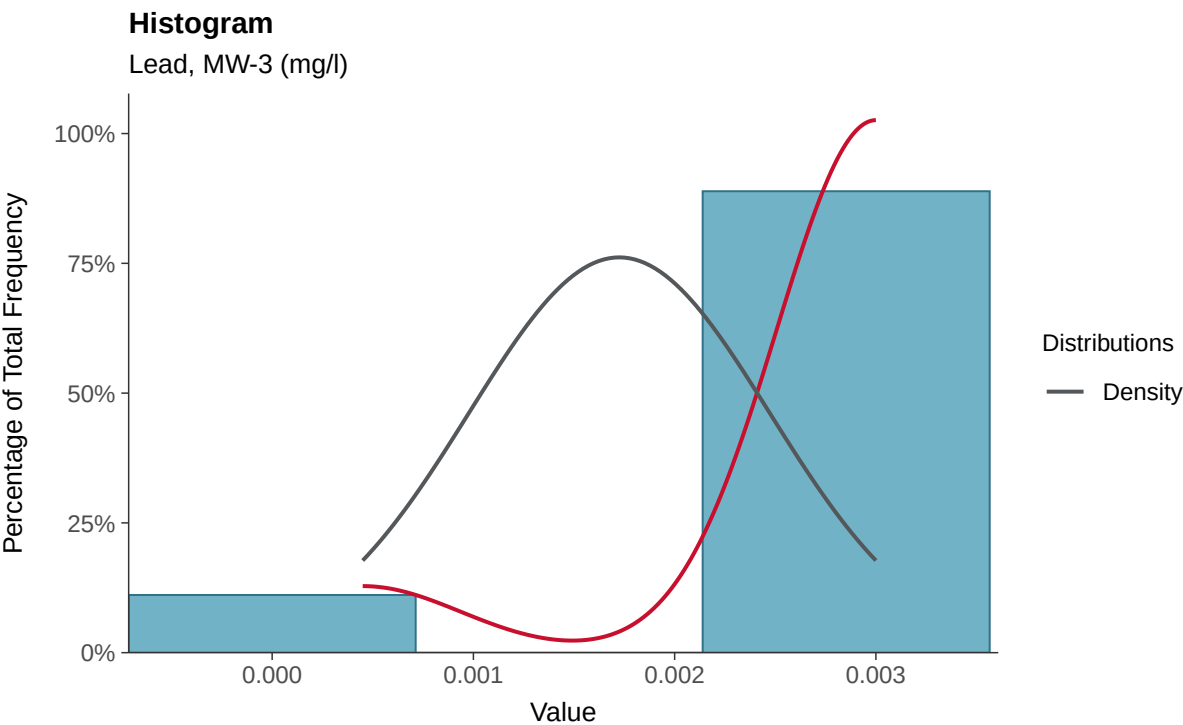
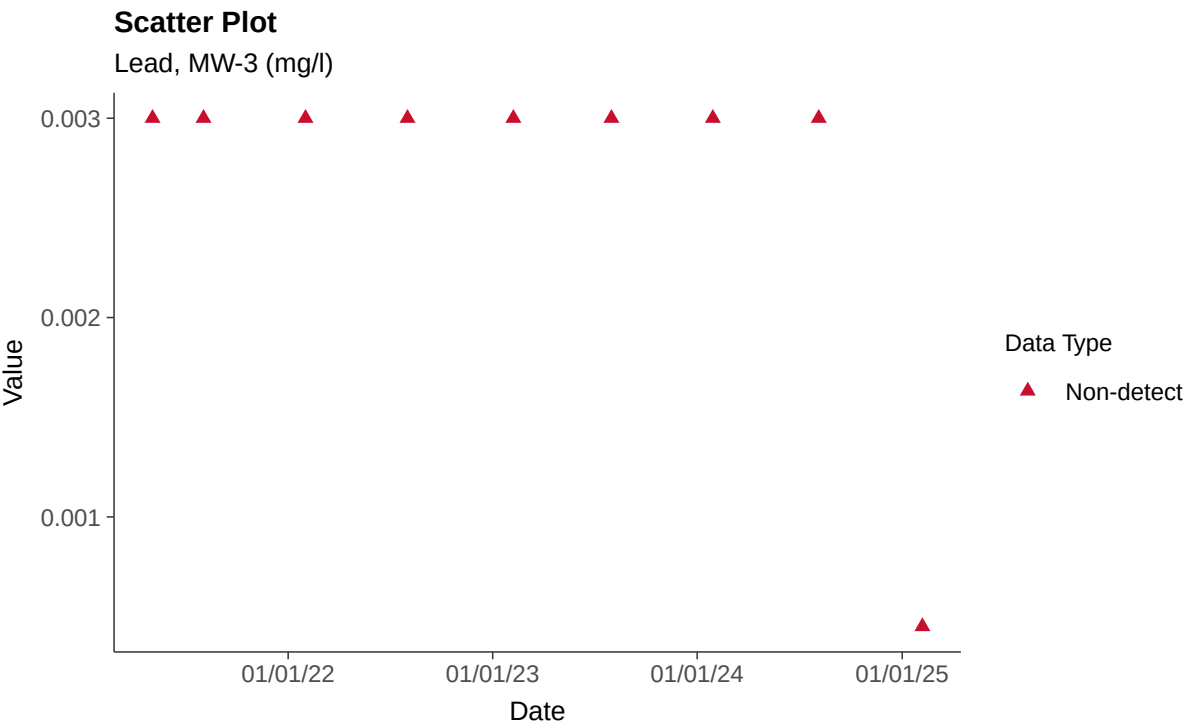


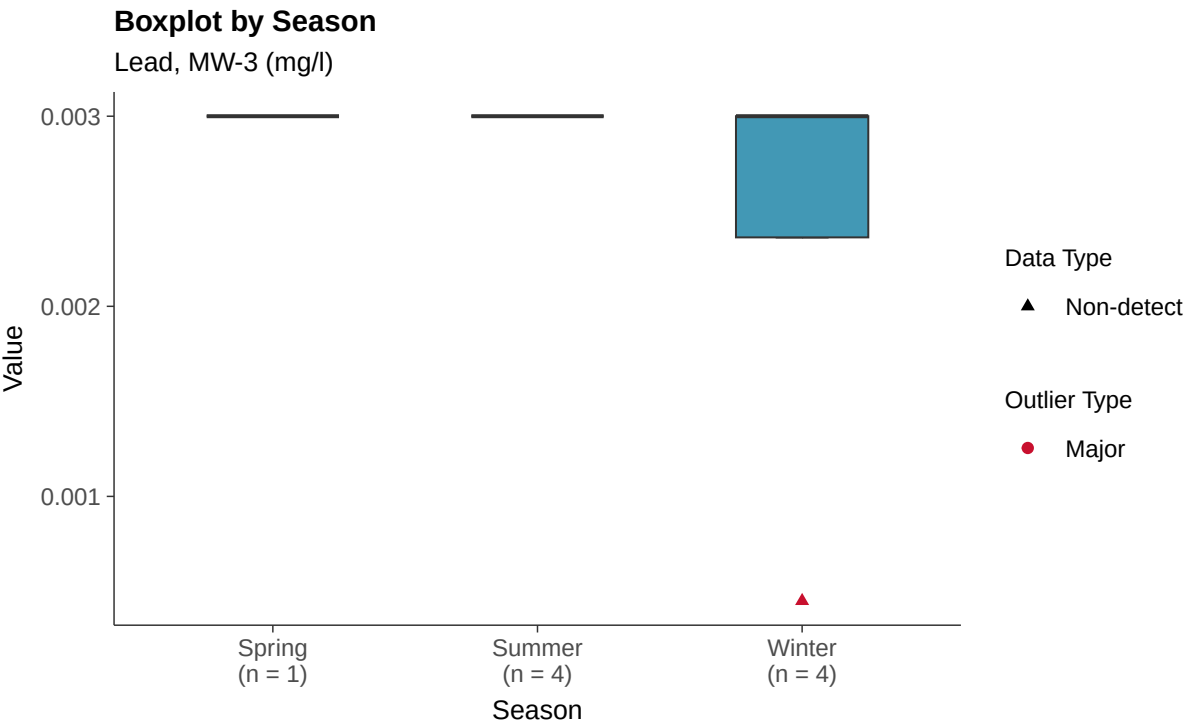
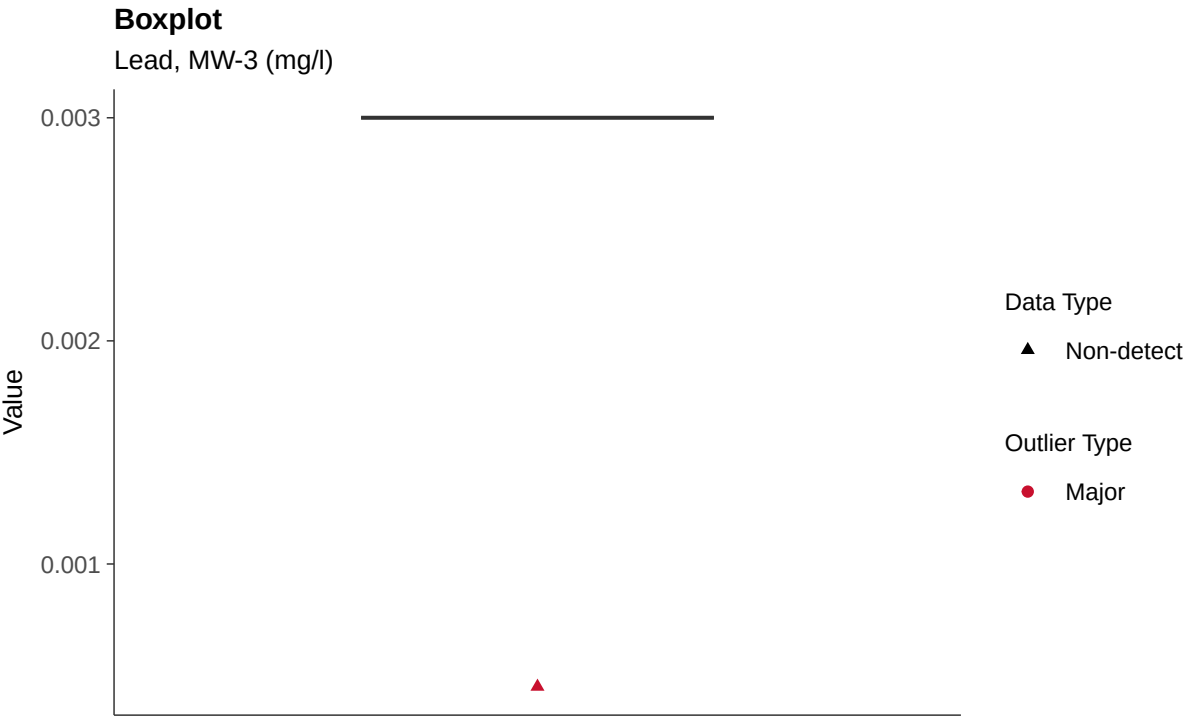




Appendix IV: Lead, MW-3

ID: 12_3_115

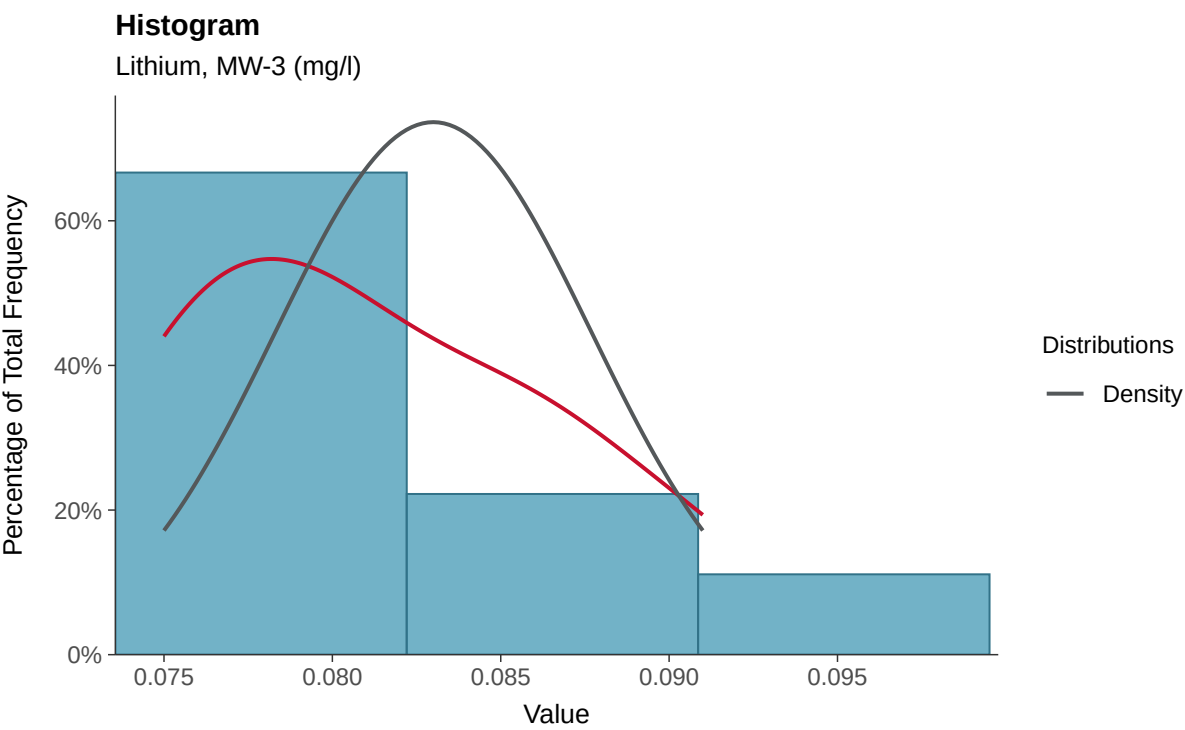
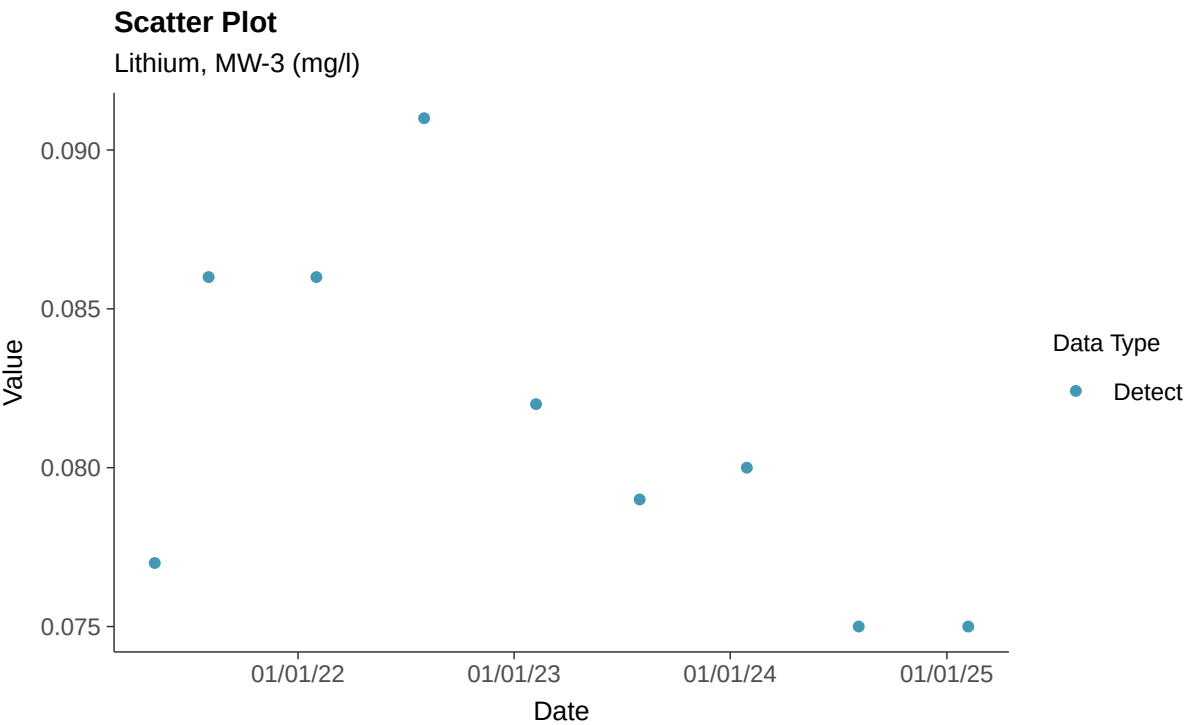


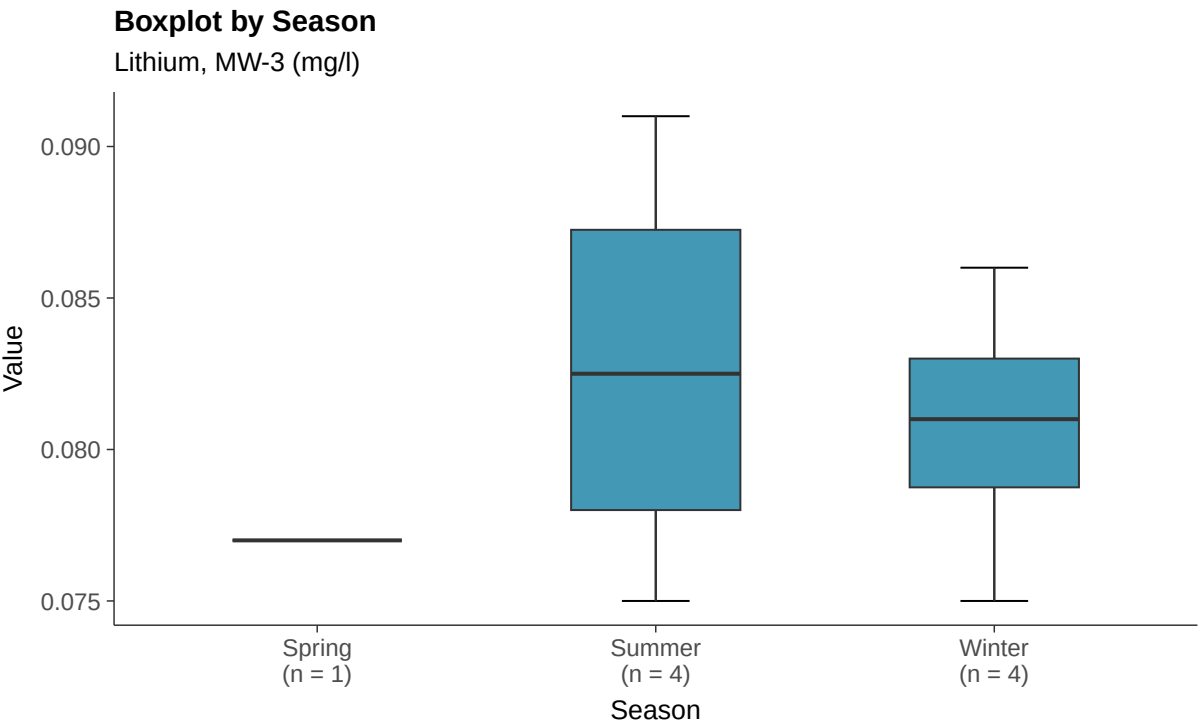
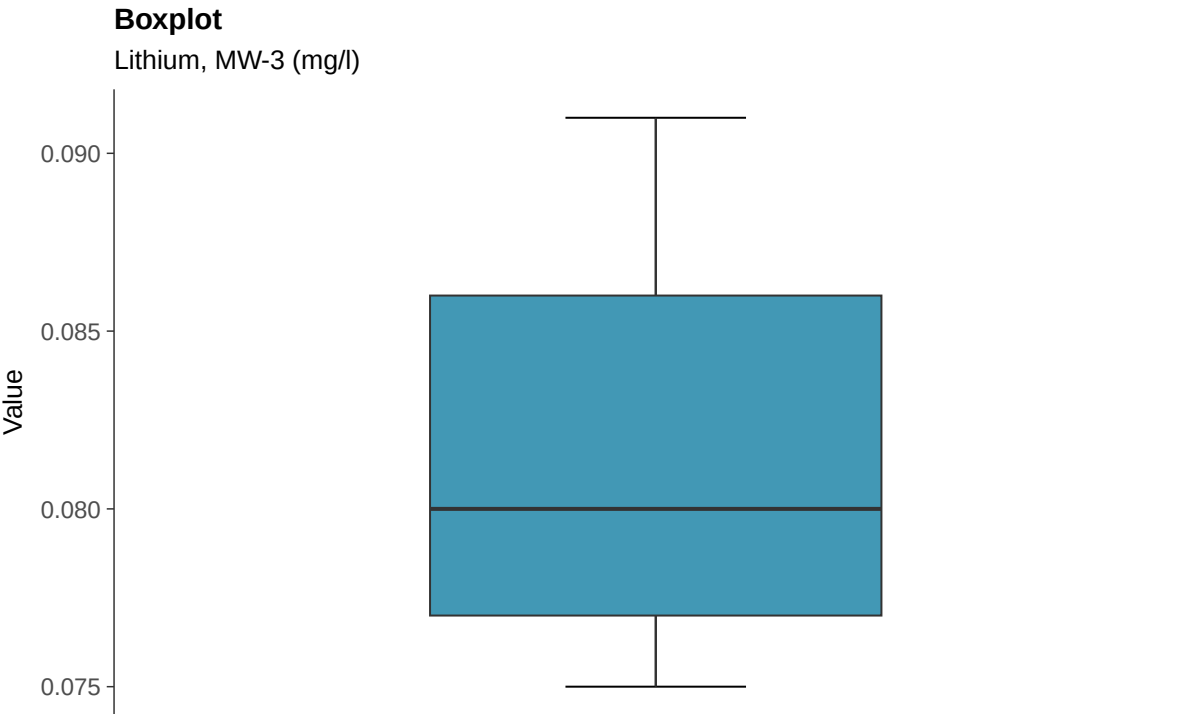


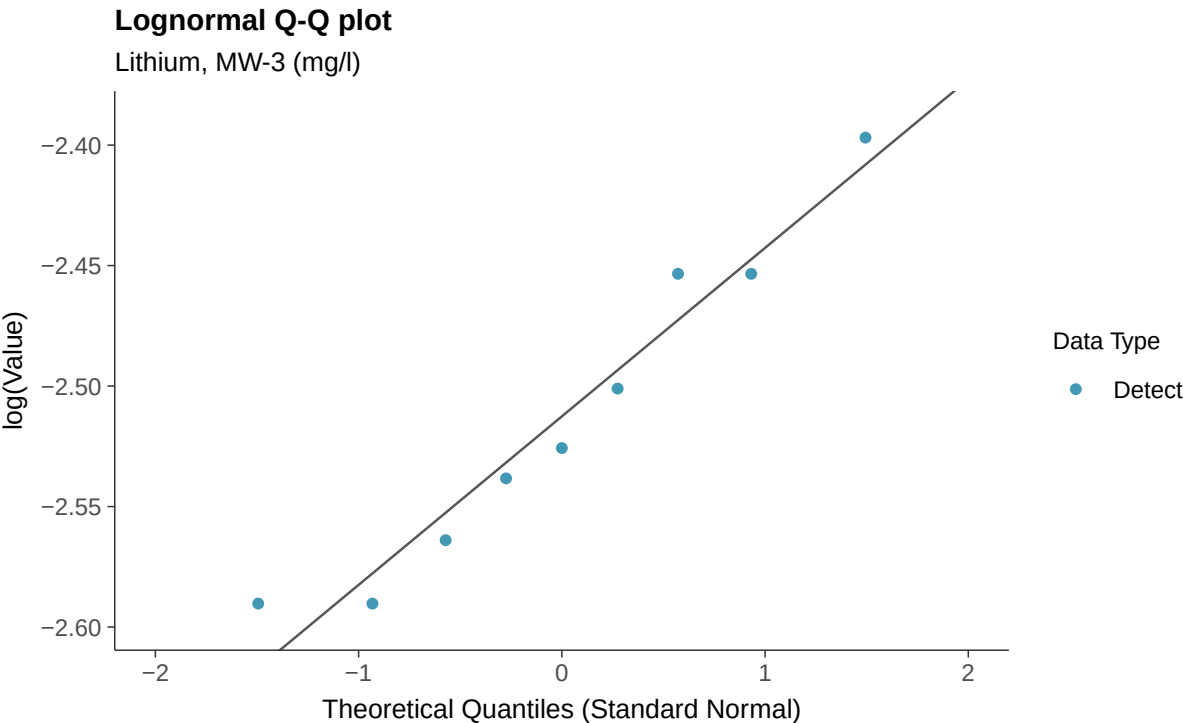
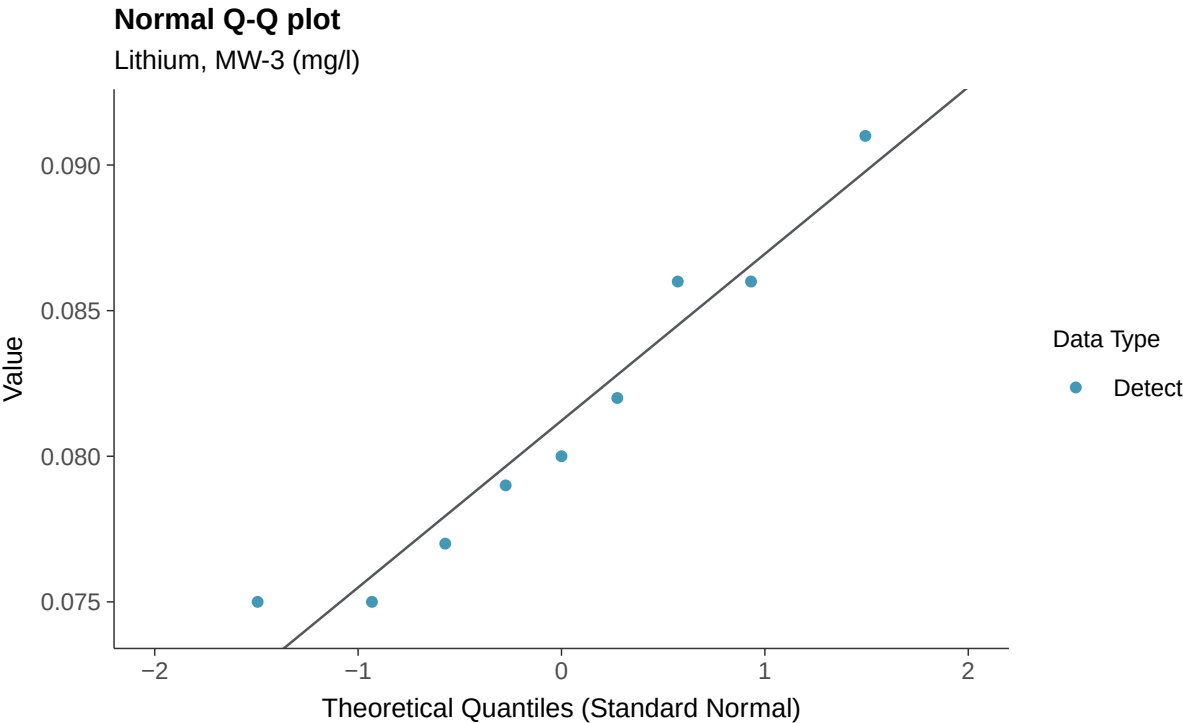


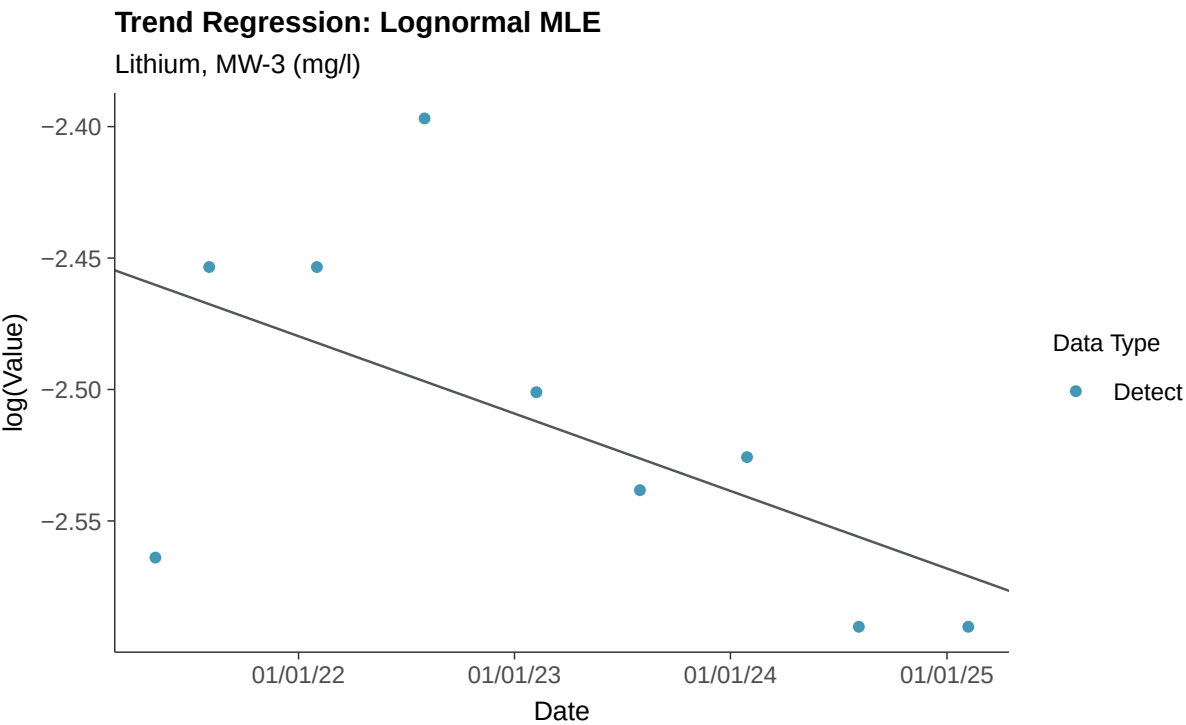
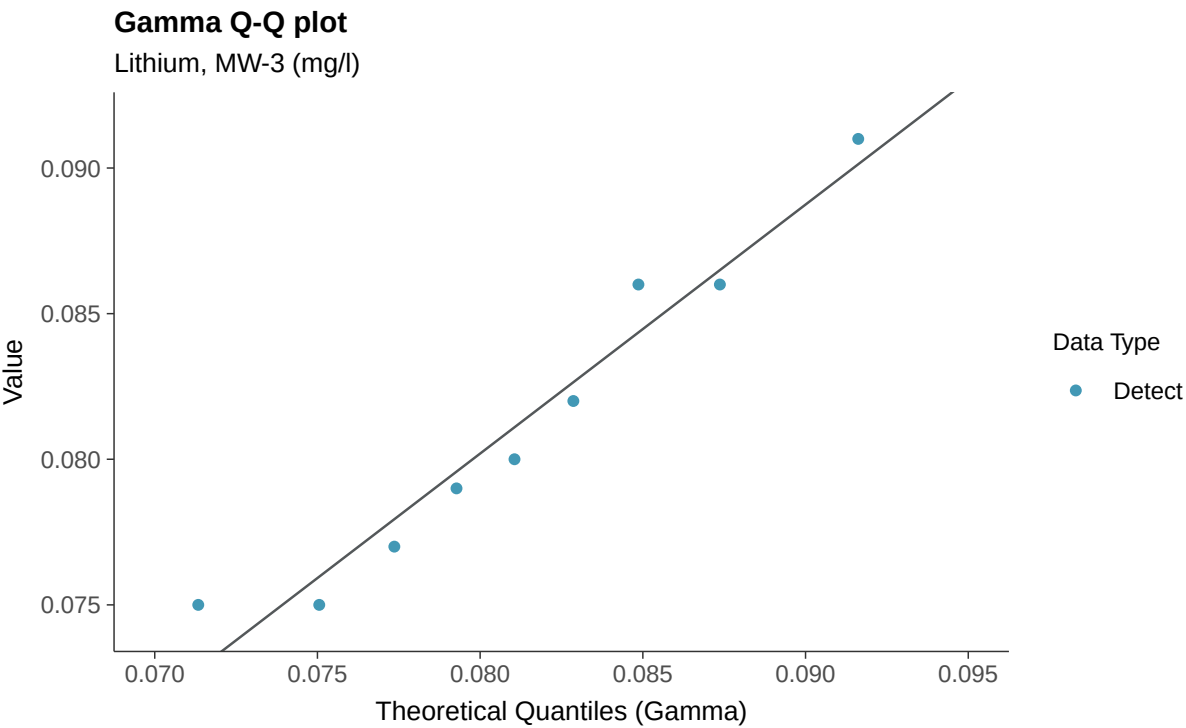
Appendix IV: Lithium, MW-3

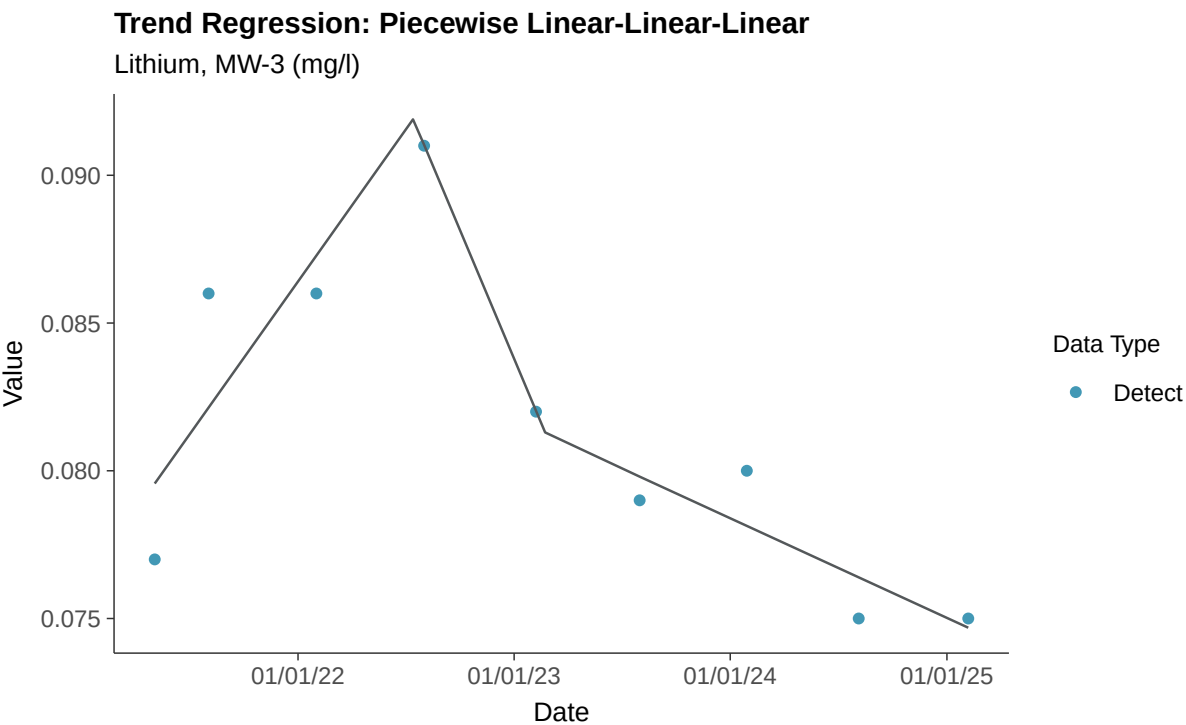
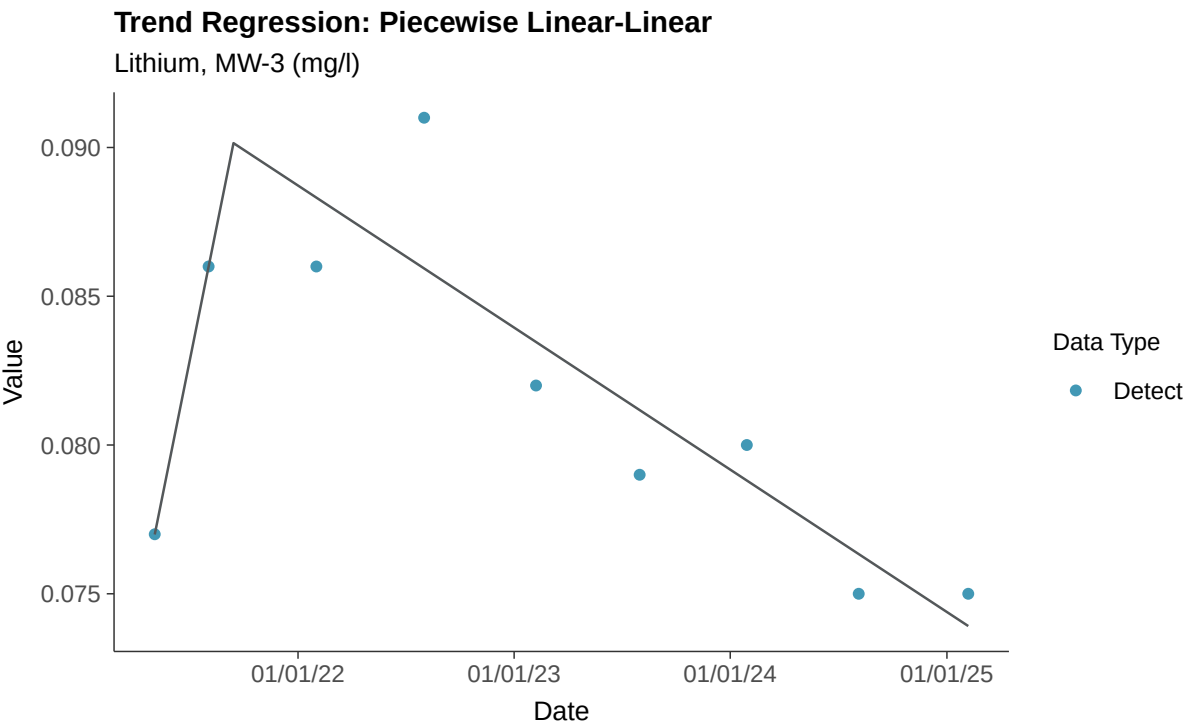
ID: 12_3_116







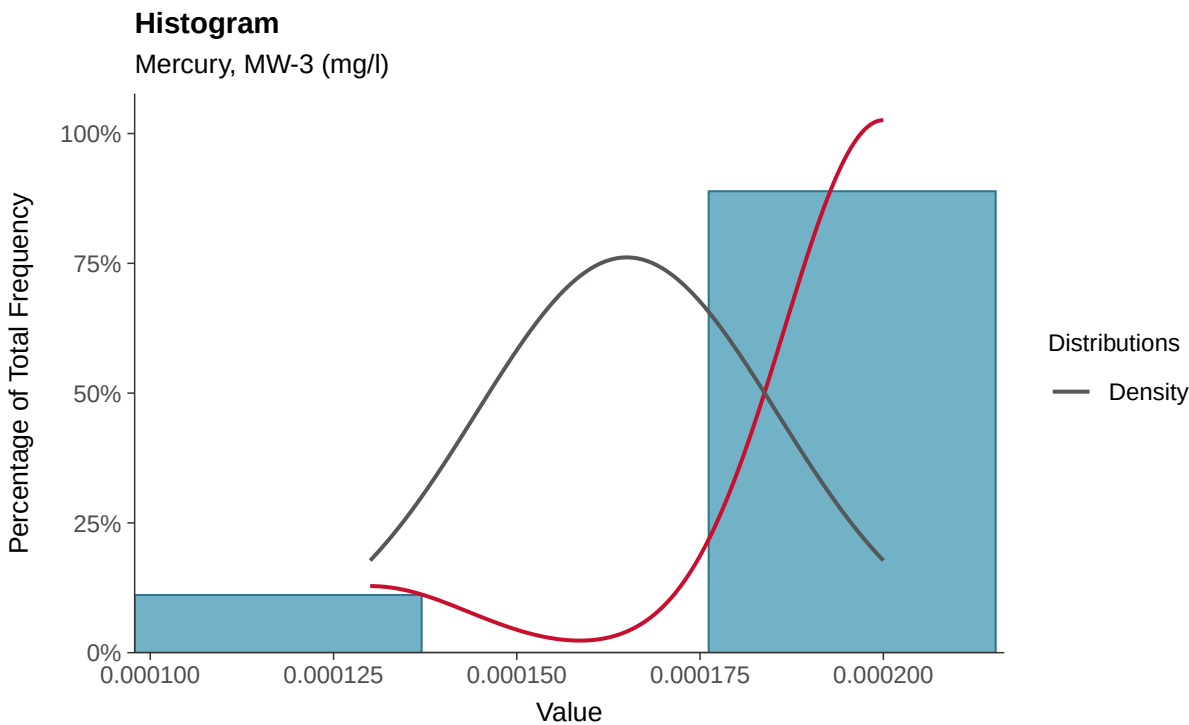
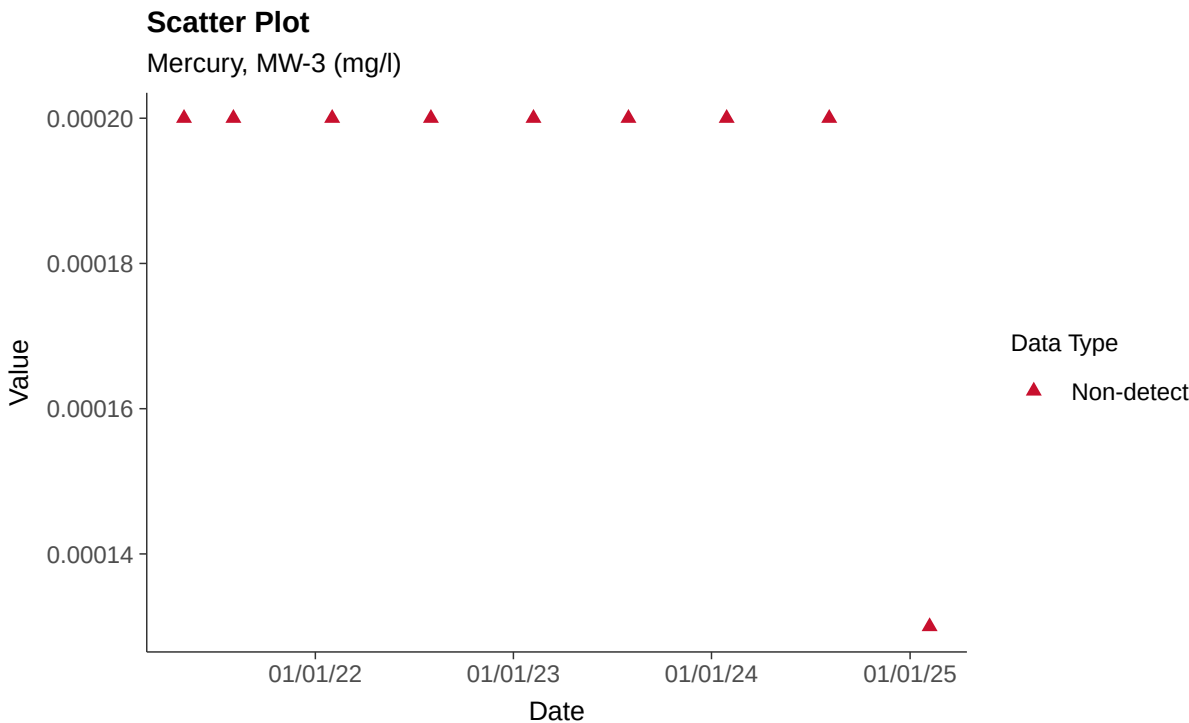


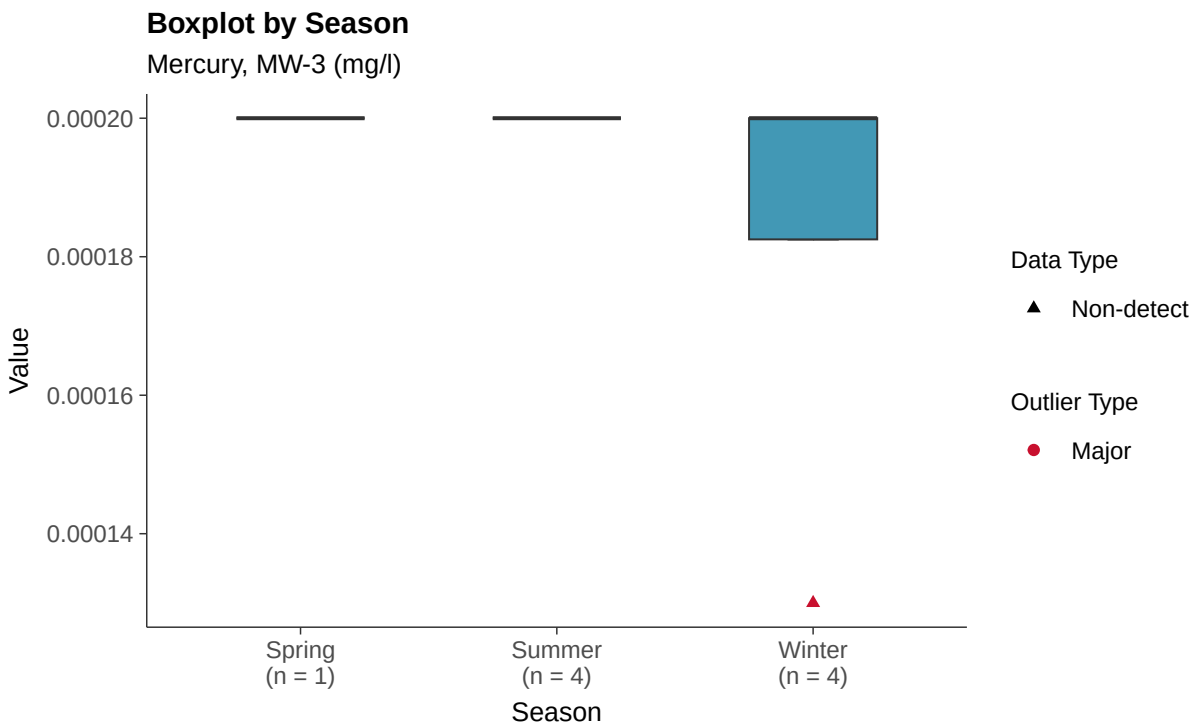
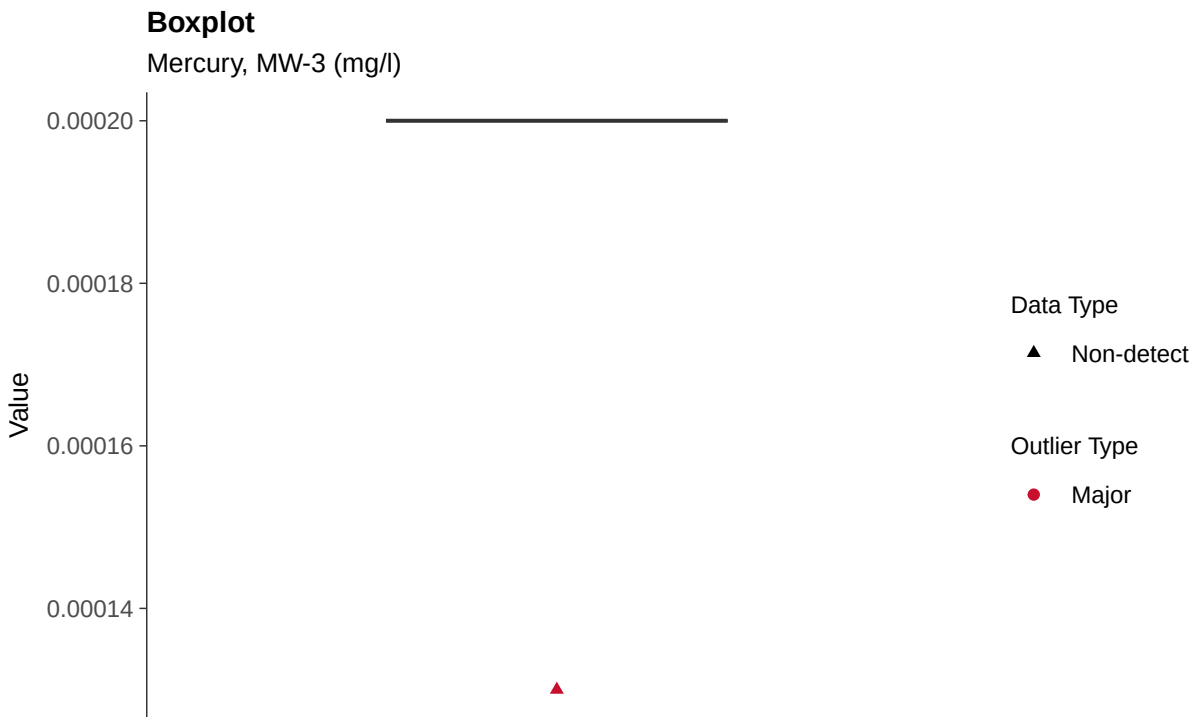




Appendix IV: Mercury, MW-3

ID: 12_3_117

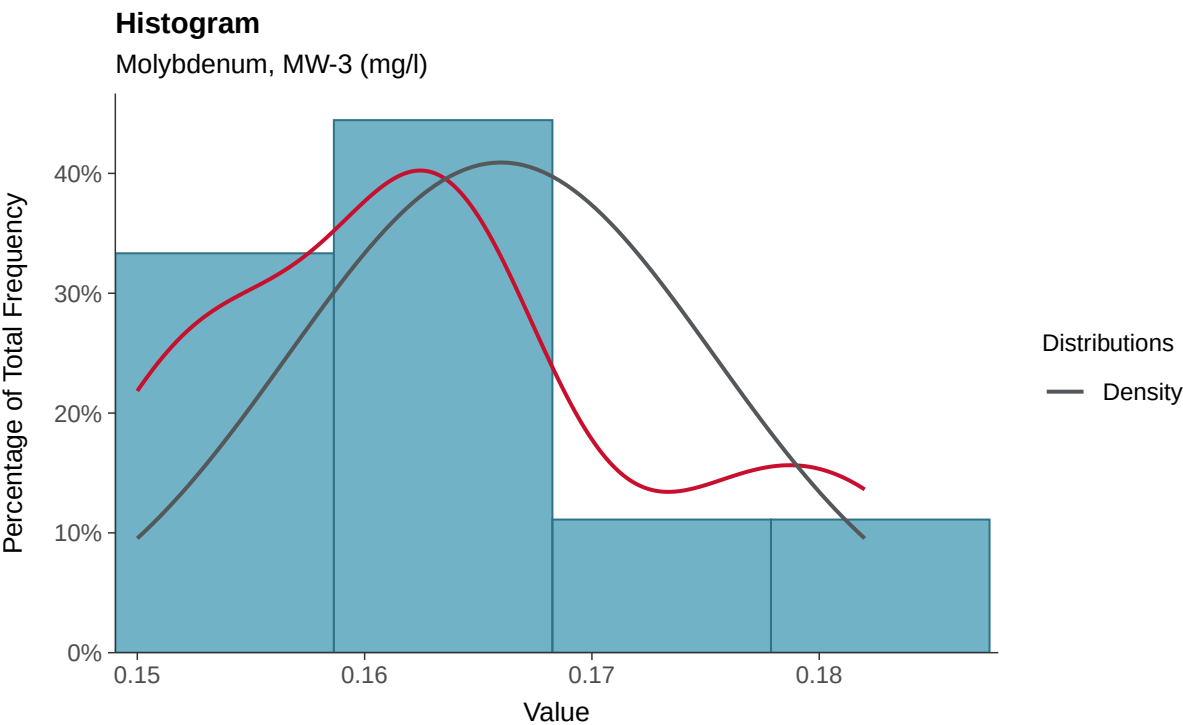
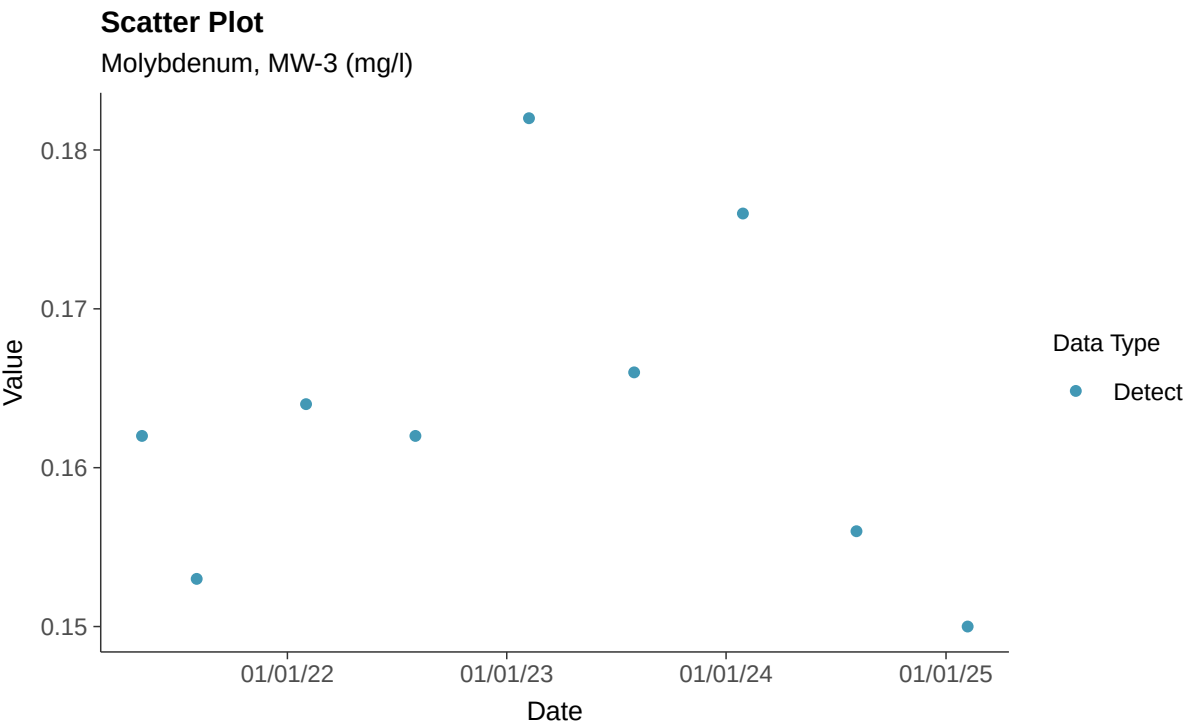


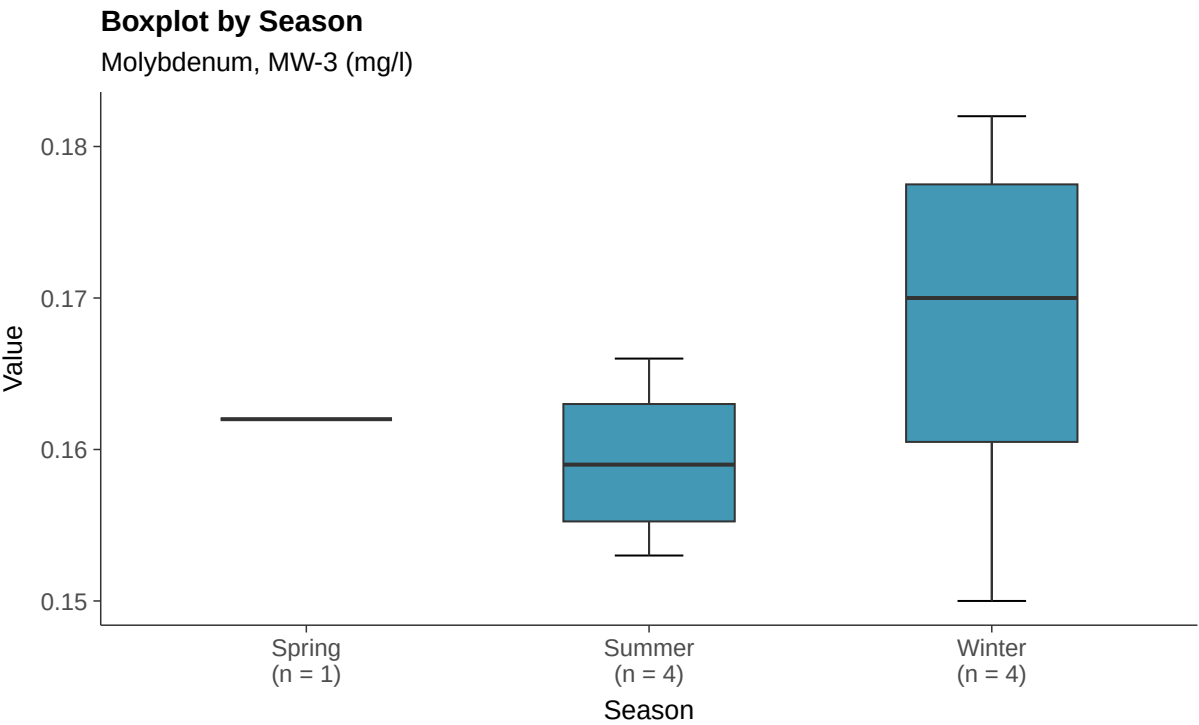
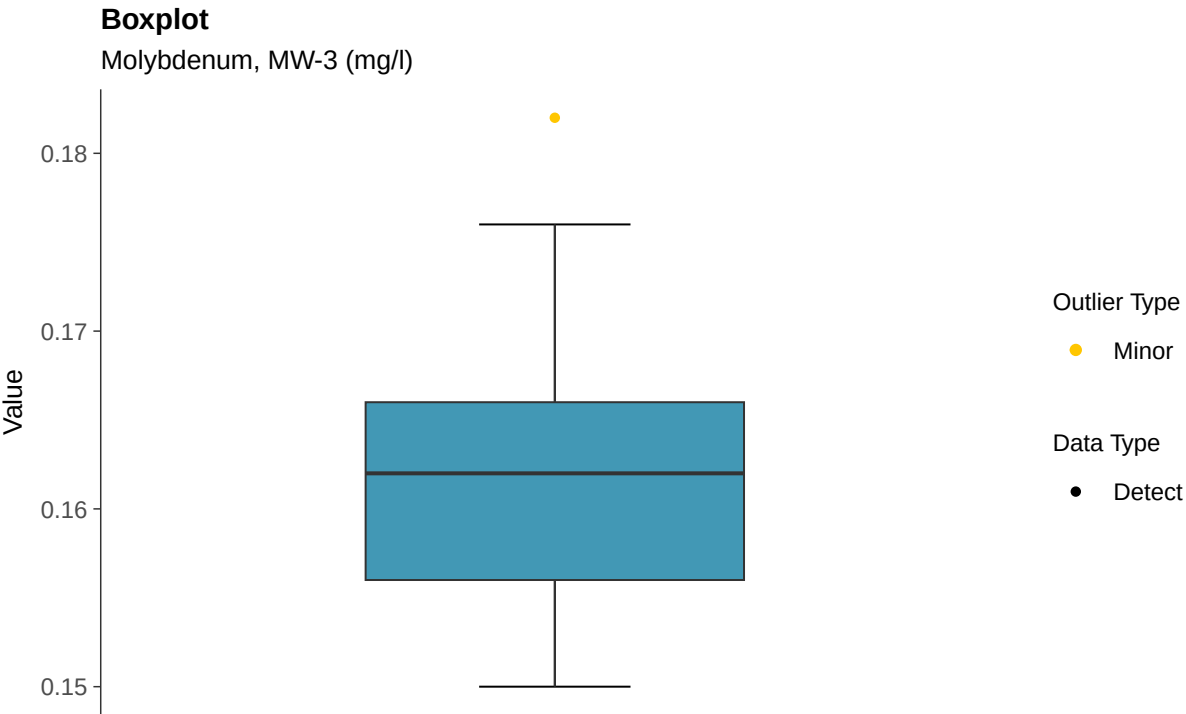


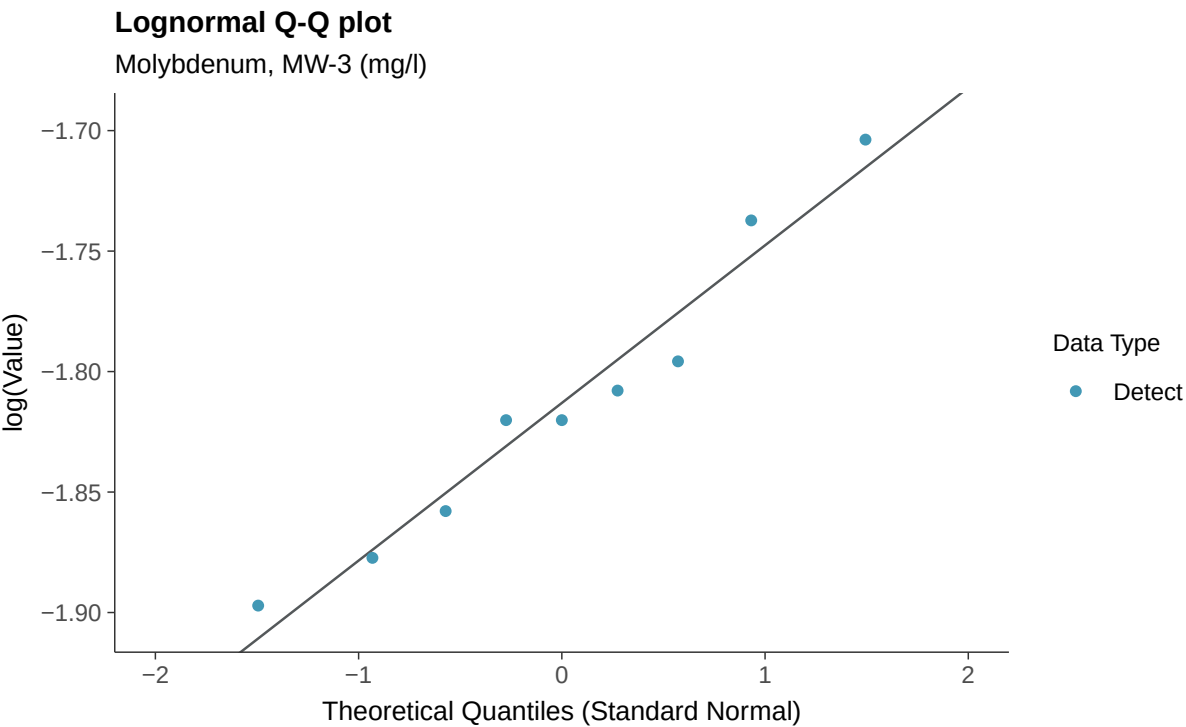
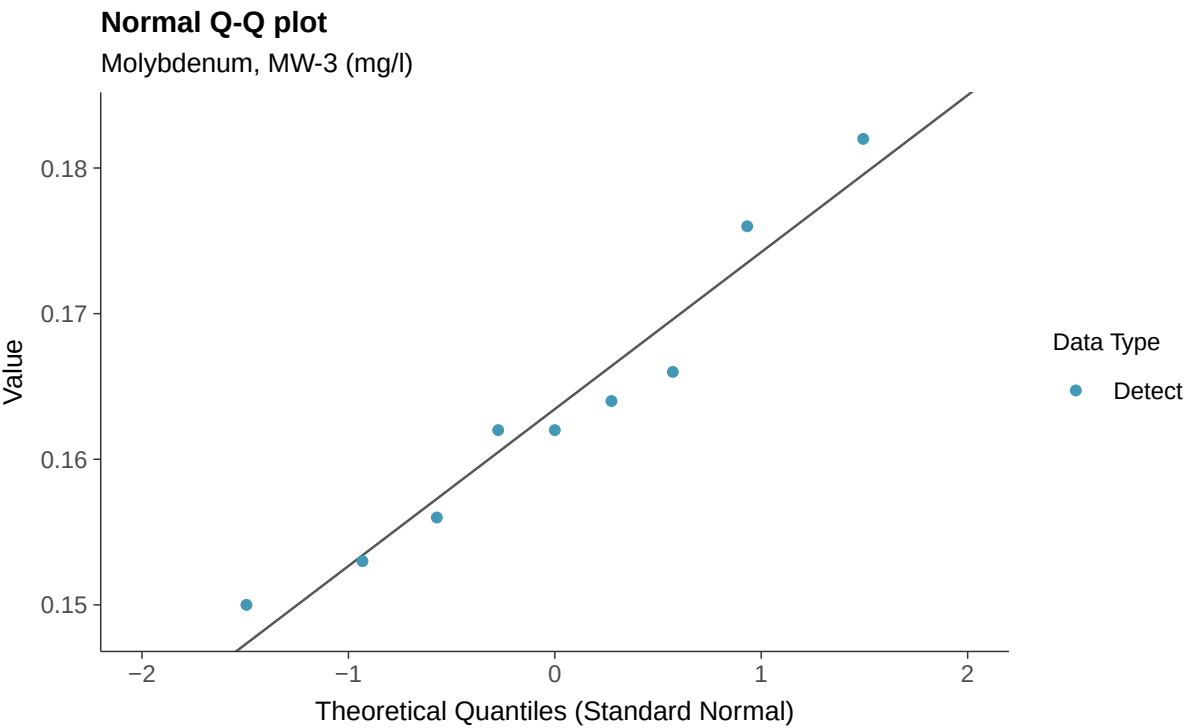


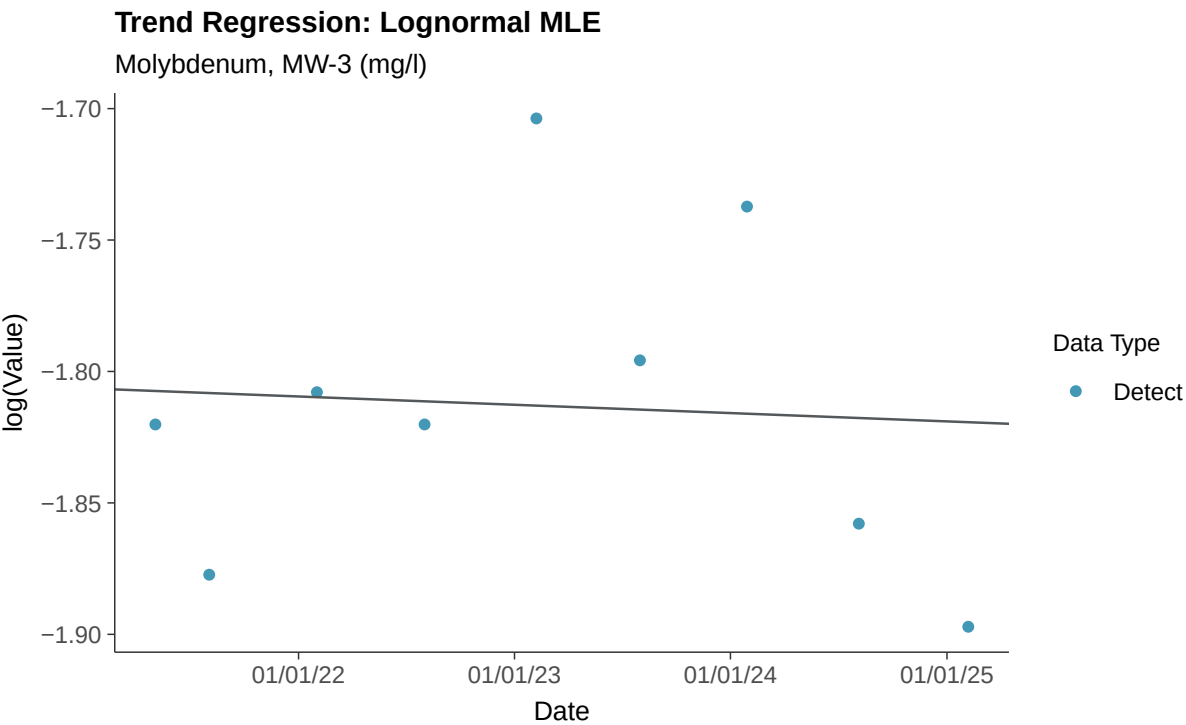
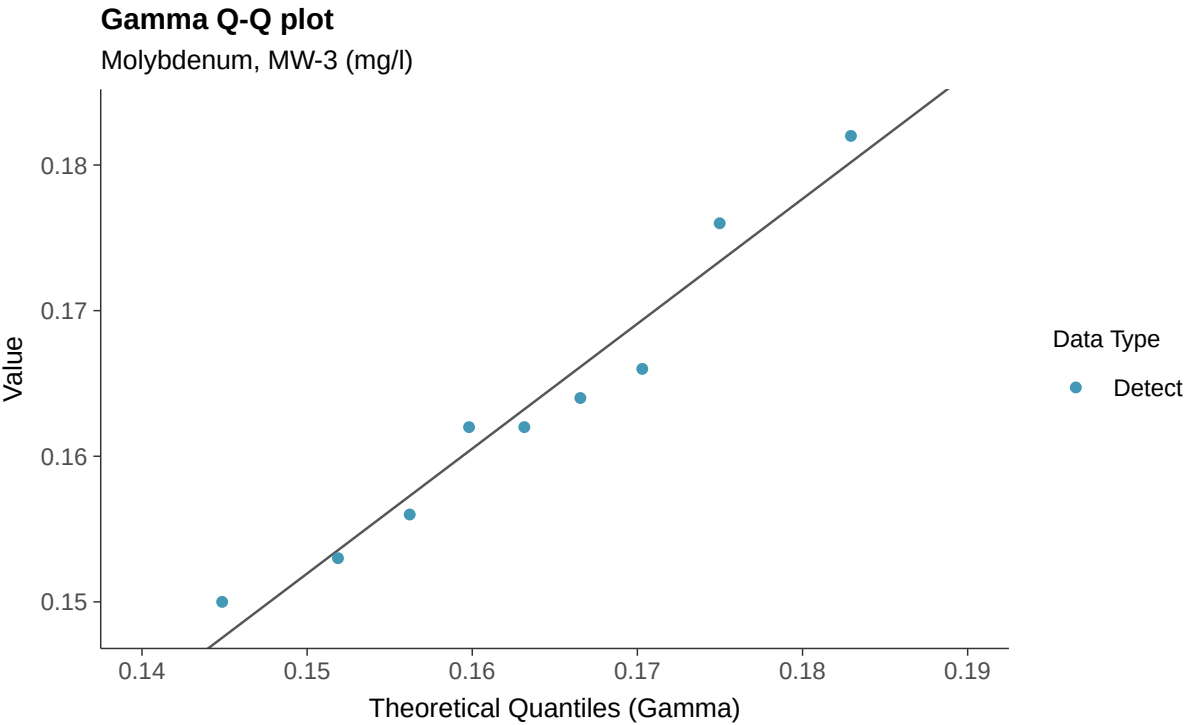
Appendix IV: Molybdenum, MW-3

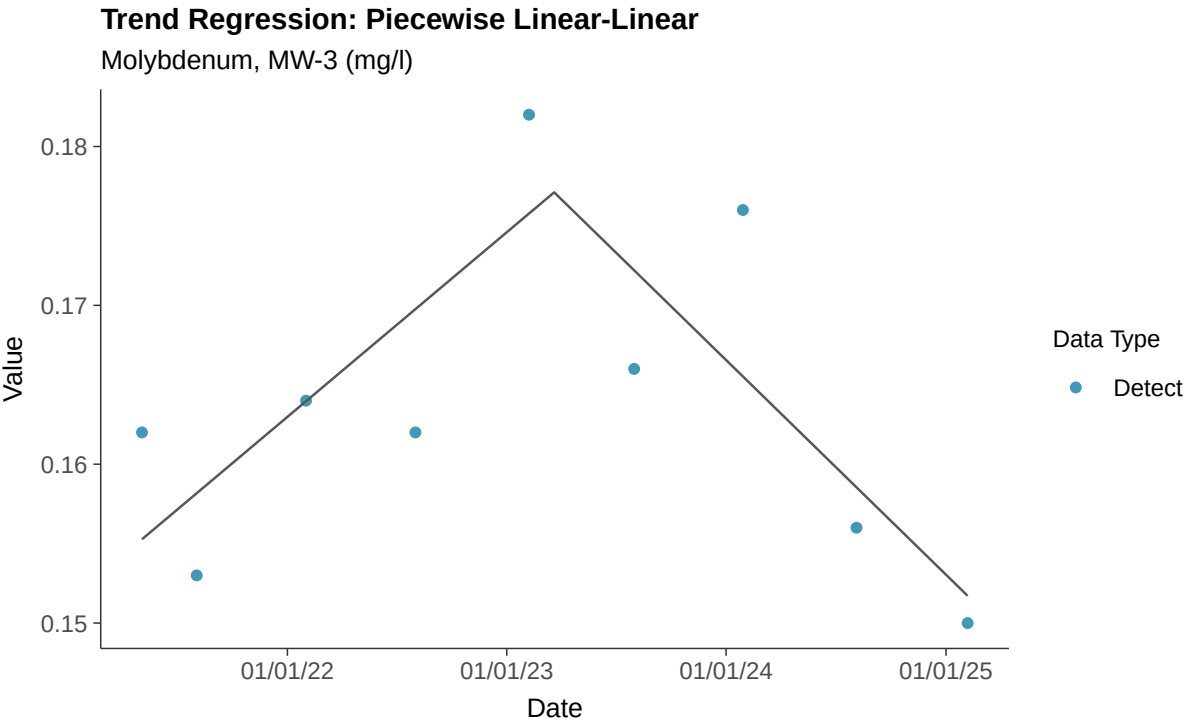
ID: 12_3_118







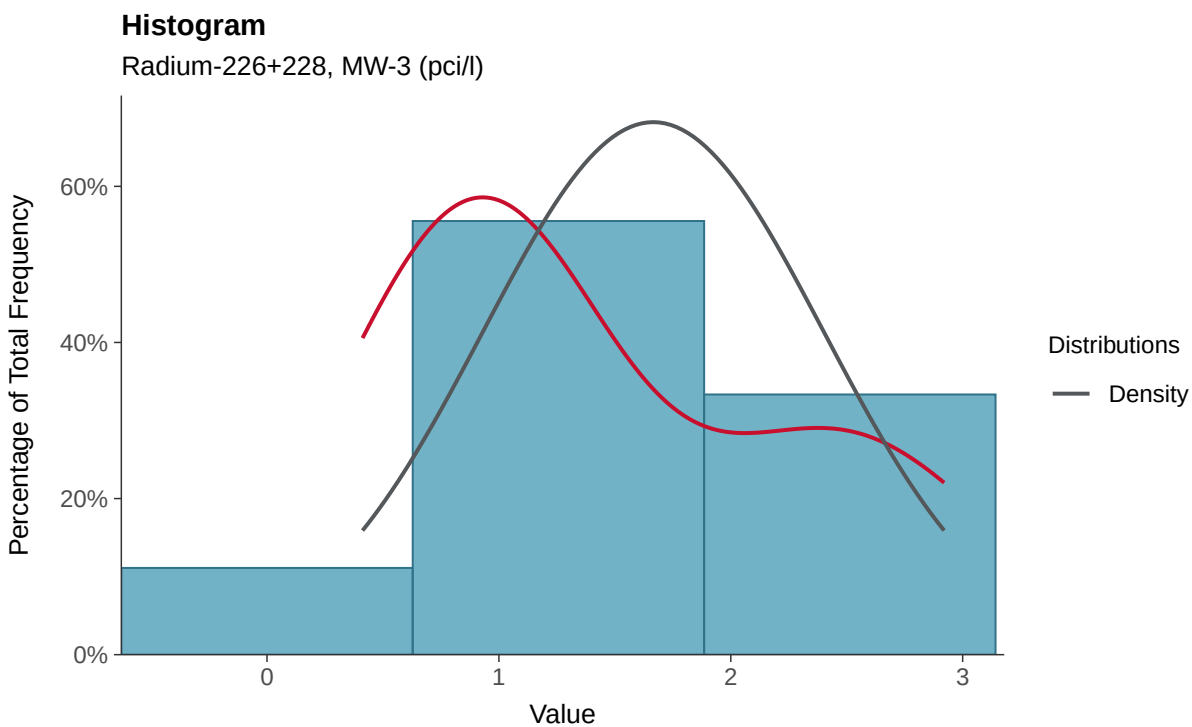
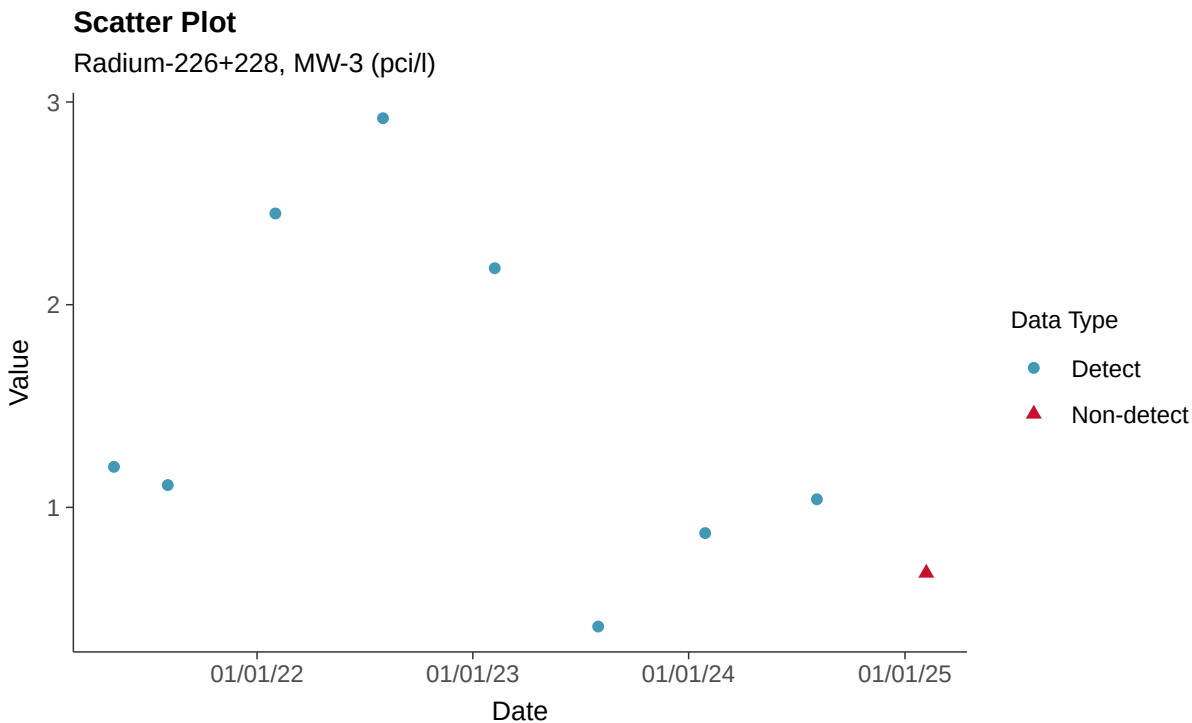






Appendix IV: Radium-226+228, MW-3

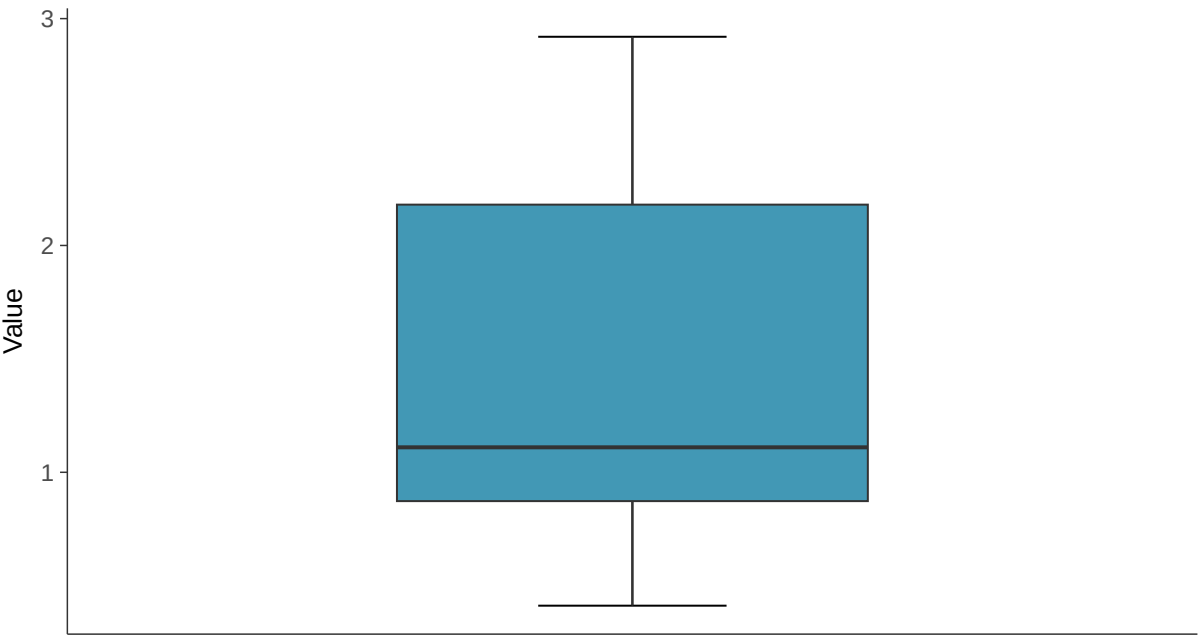
ID: 12_3_121





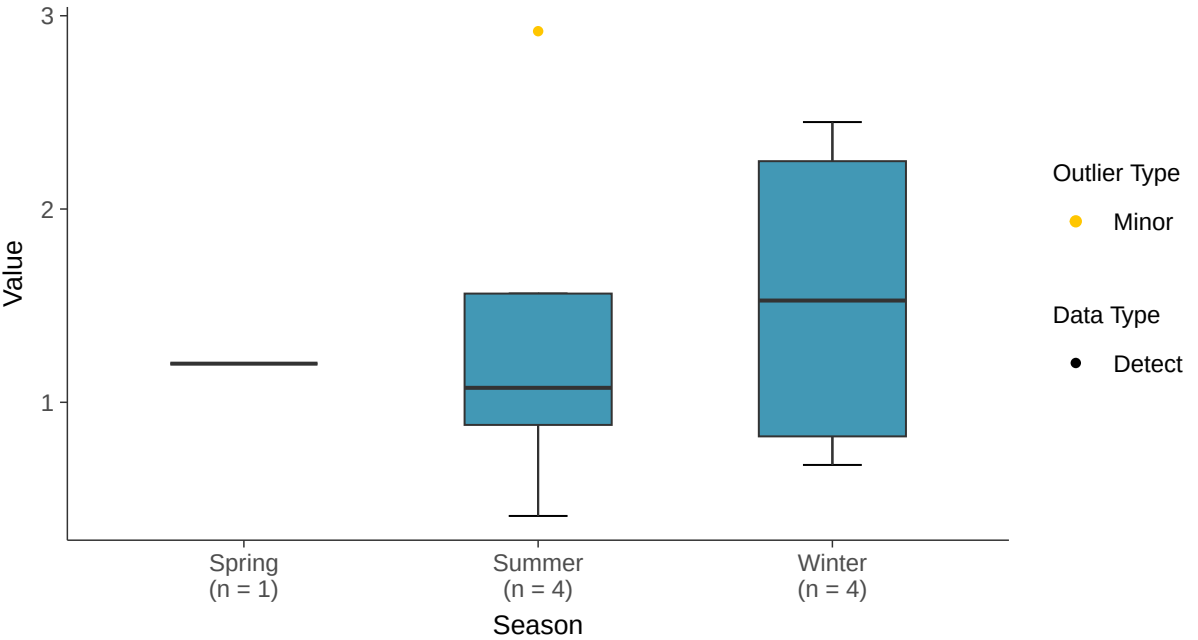
Boxplot

Radium-226+228, MW-3 (pci/l)



Boxplot by Season

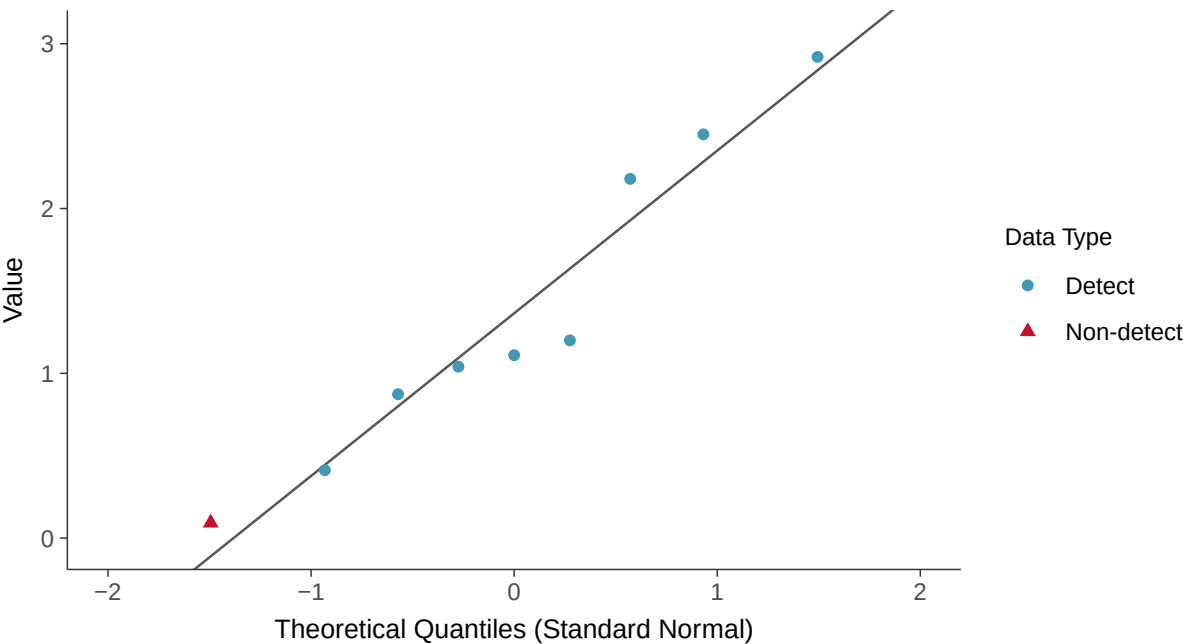
Radium-226+228, MW-3 (pci/l)





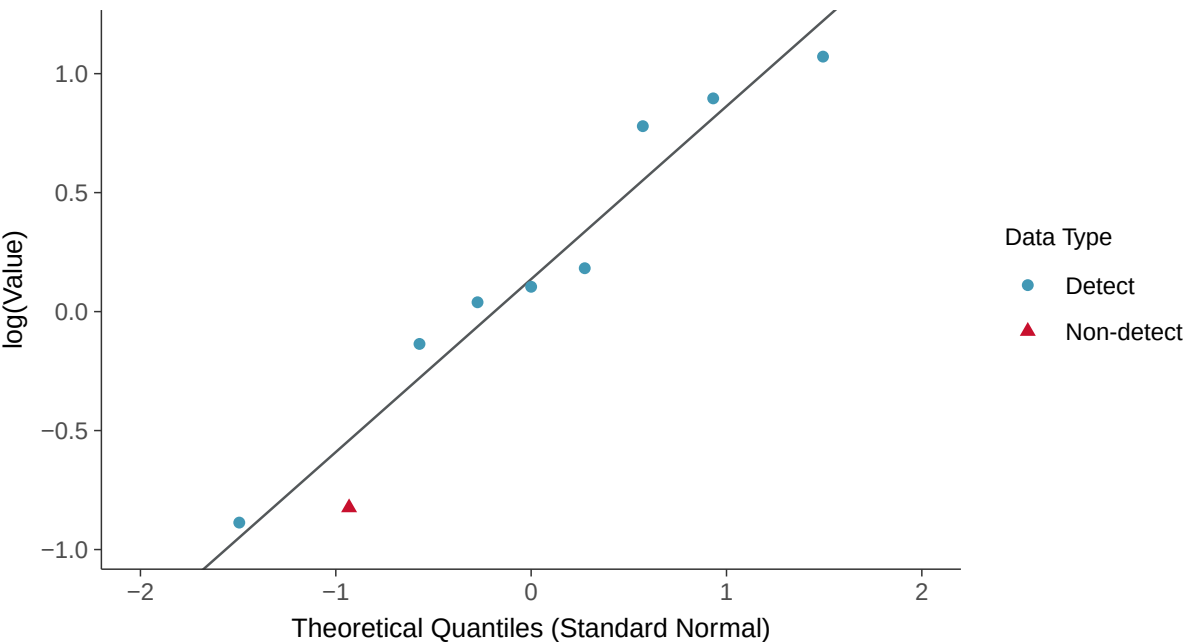
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-3 (pci/l)



Lognormal Q-Q plot using ROS Imputed Estimates

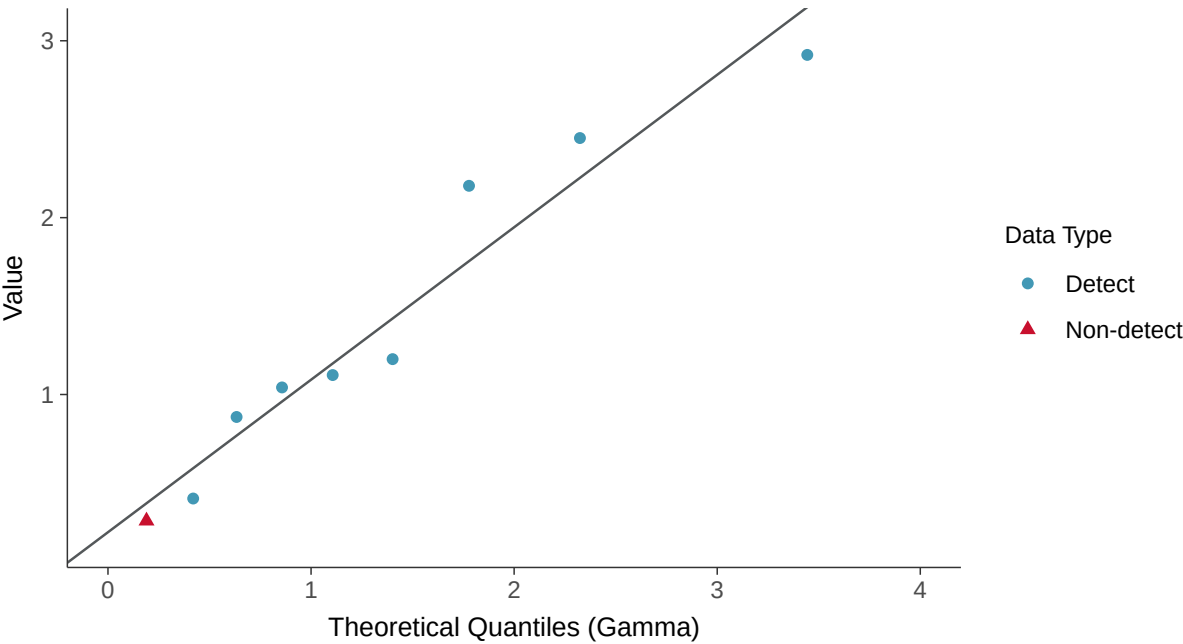
Radium-226+228, MW-3 (pci/l)





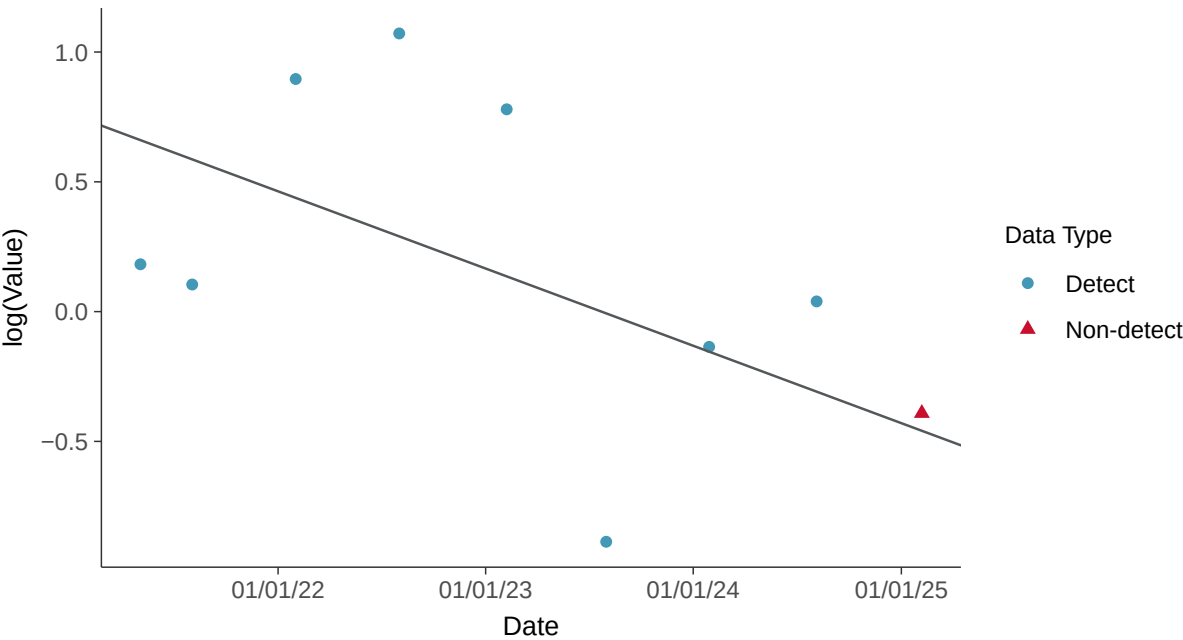
Gamma Q-Q plot using ROS Imputed Estimates

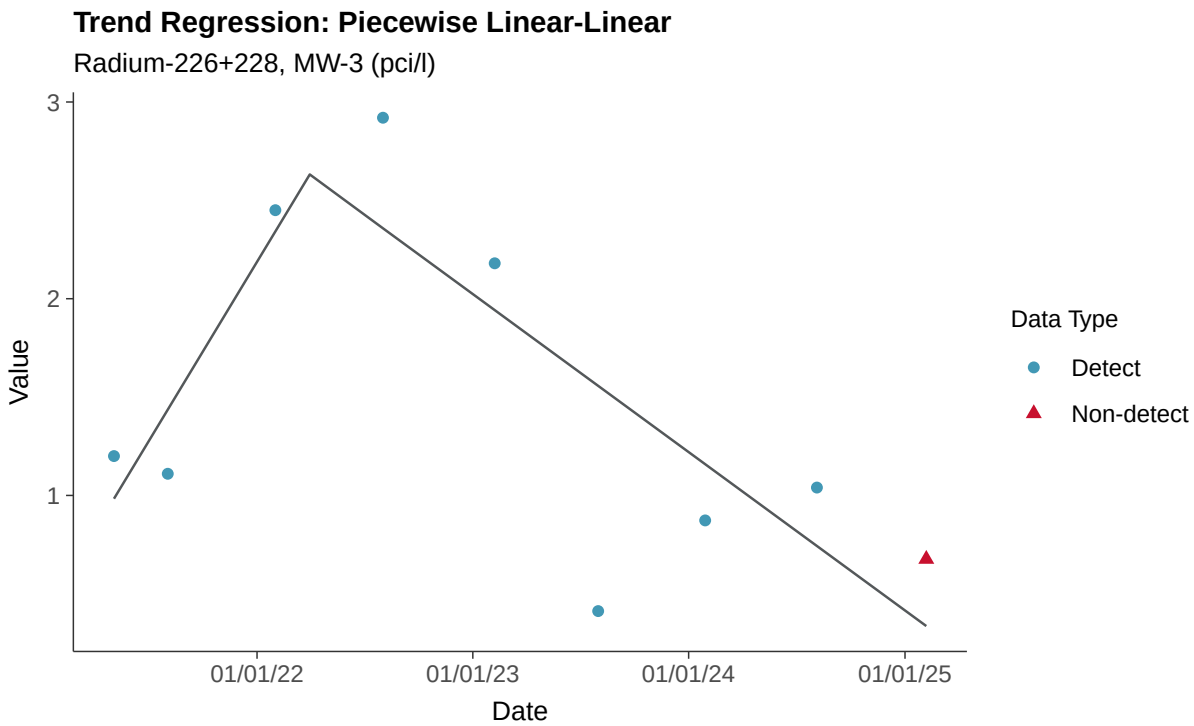
Radium-226+228, MW-3 (pci/l)



Trend Regression: Lognormal MLE

Radium-226+228, MW-3 (pci/l)

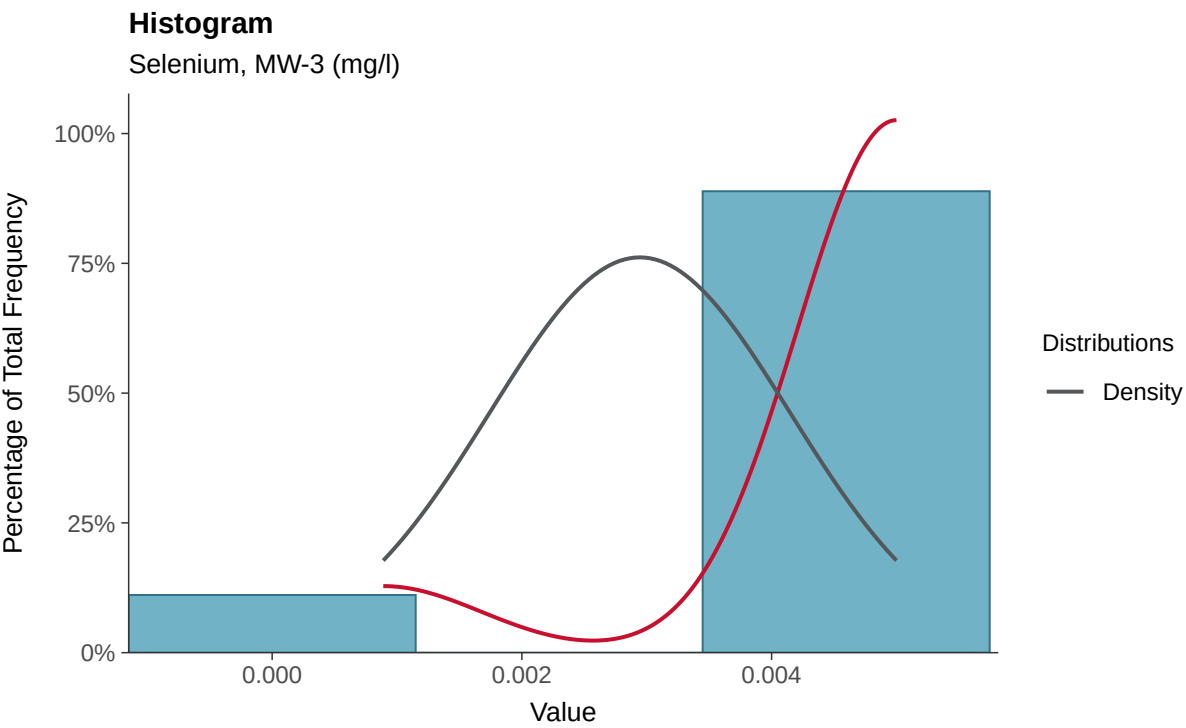
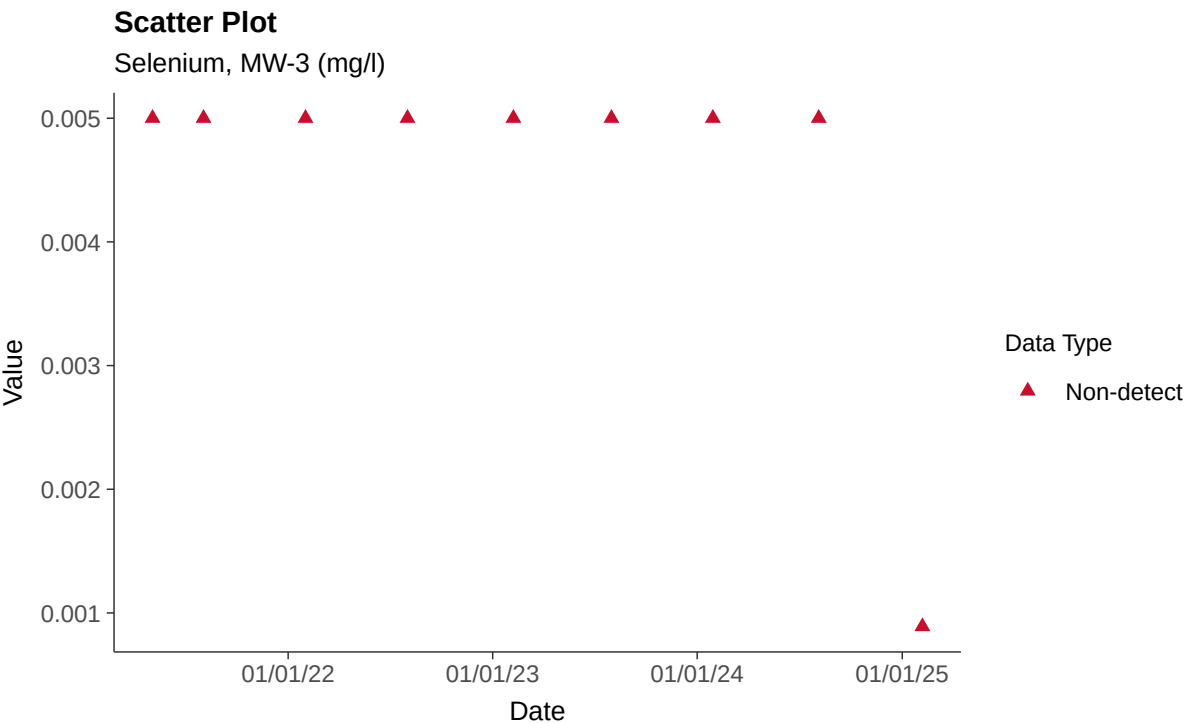


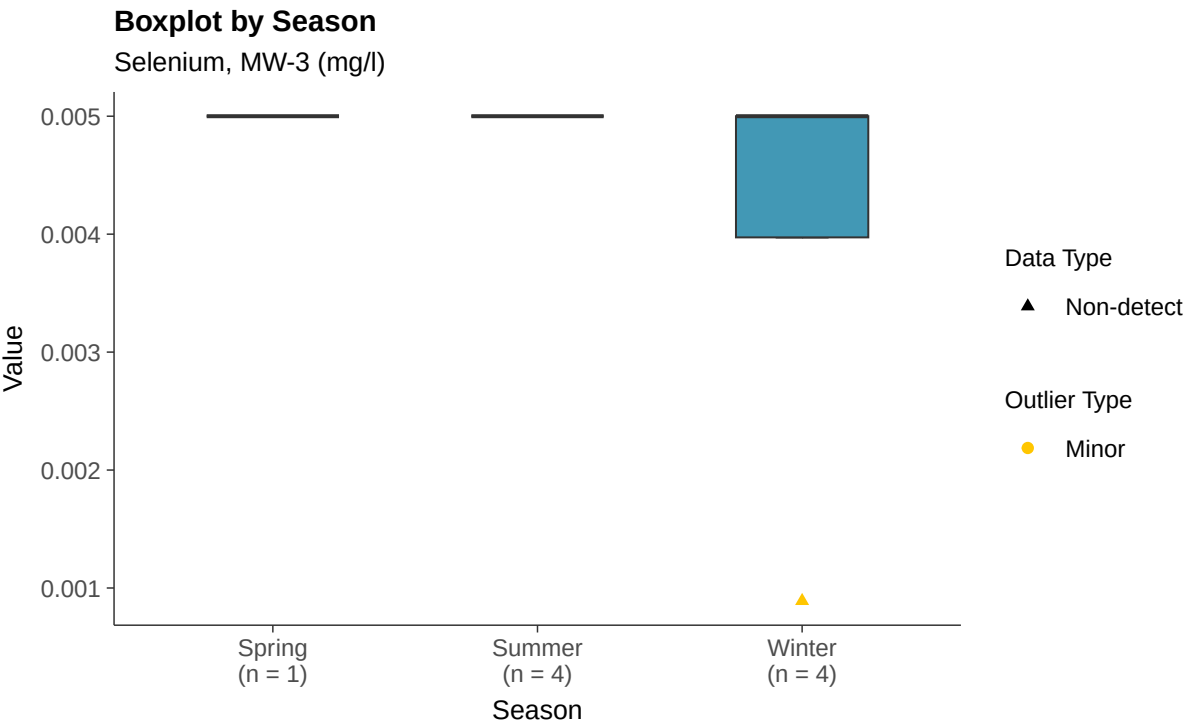
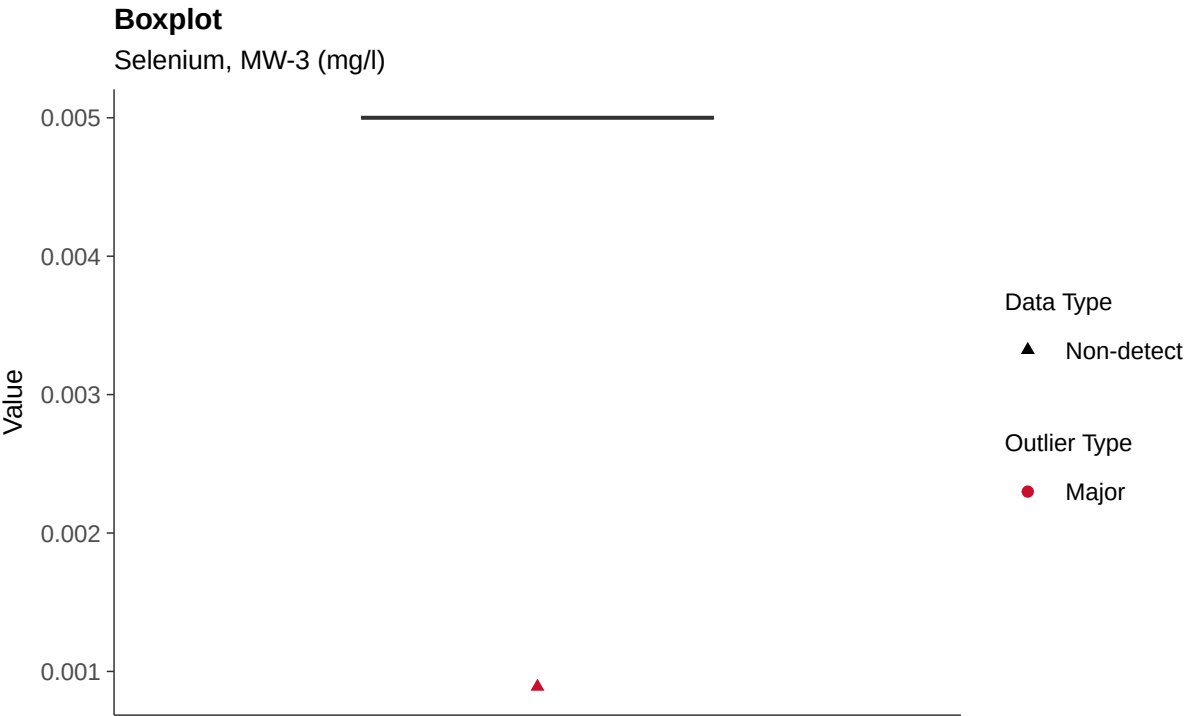




Appendix IV: Selenium, MW-3

ID: 12_3_122

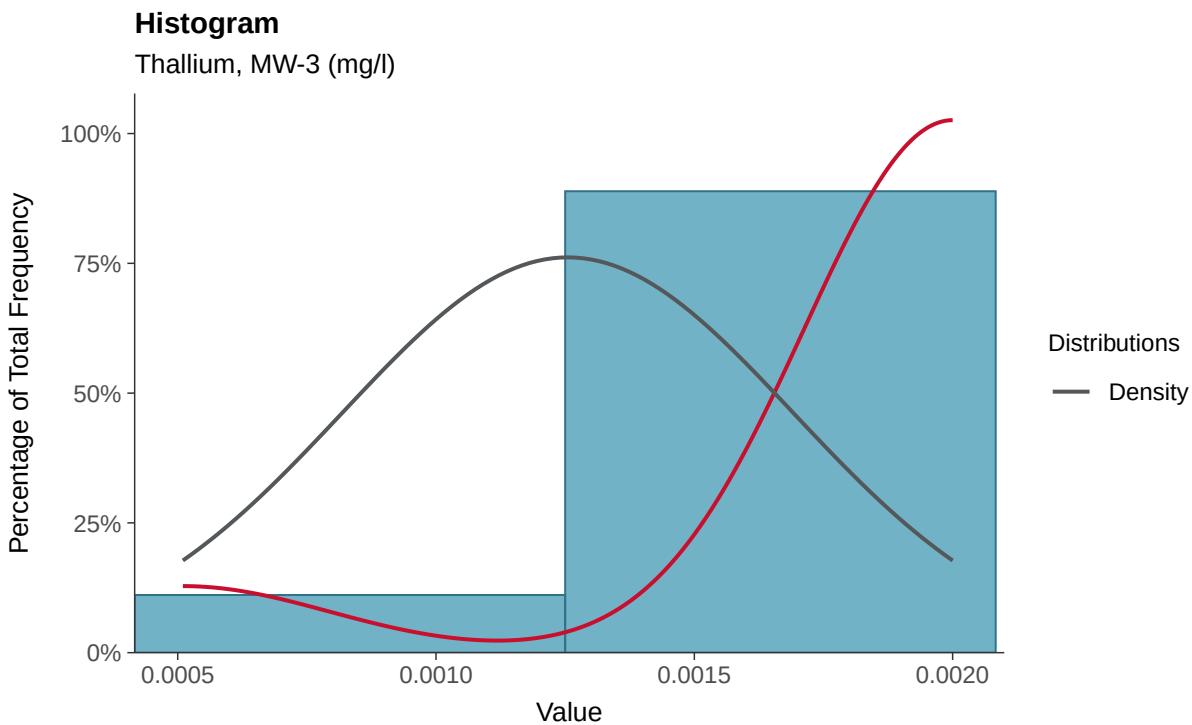
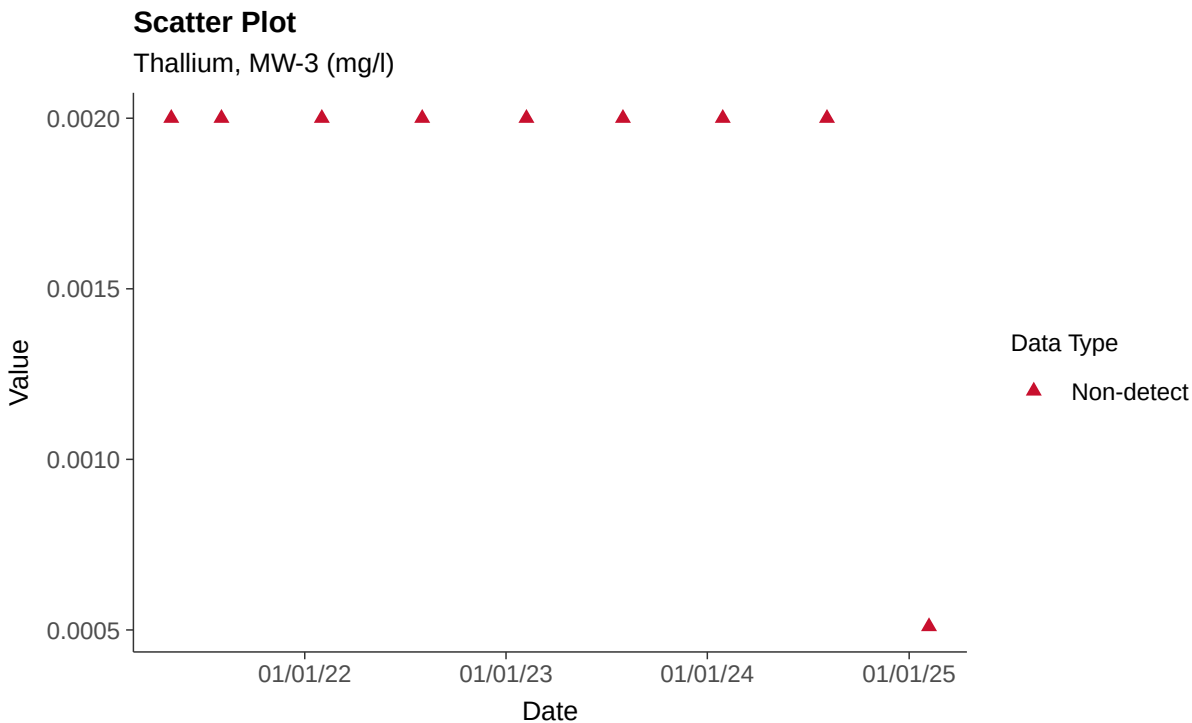


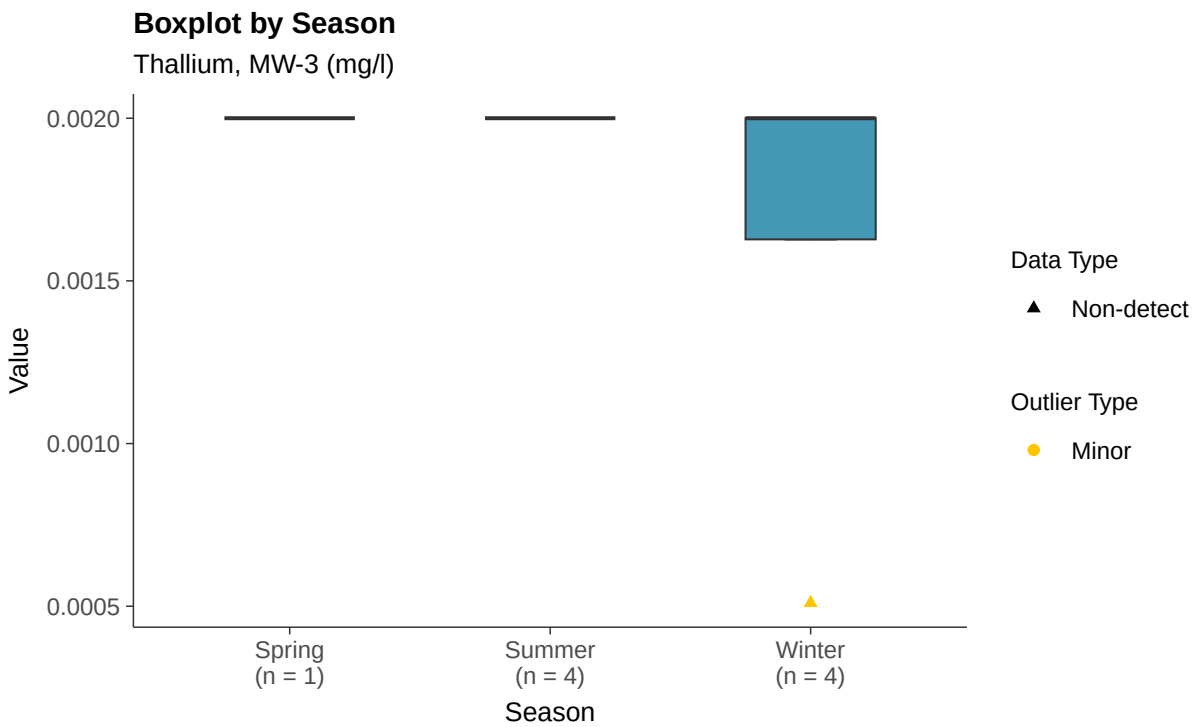
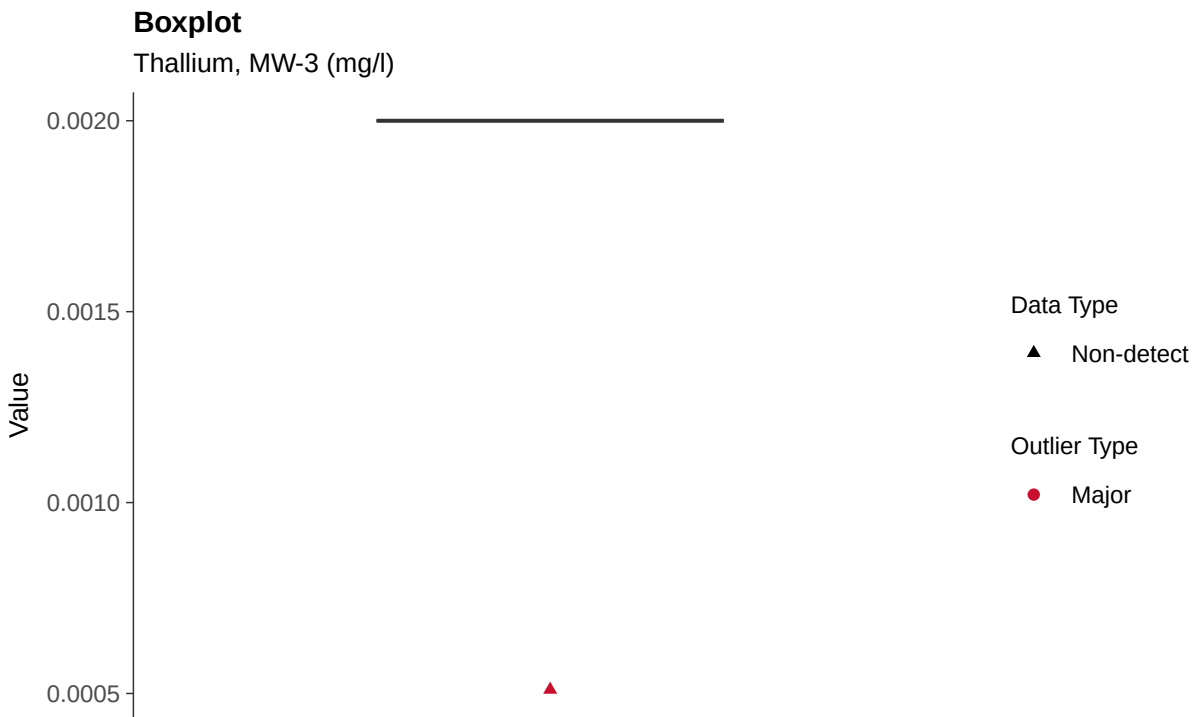




Appendix IV: Thallium, MW-3

ID: 12_3_125

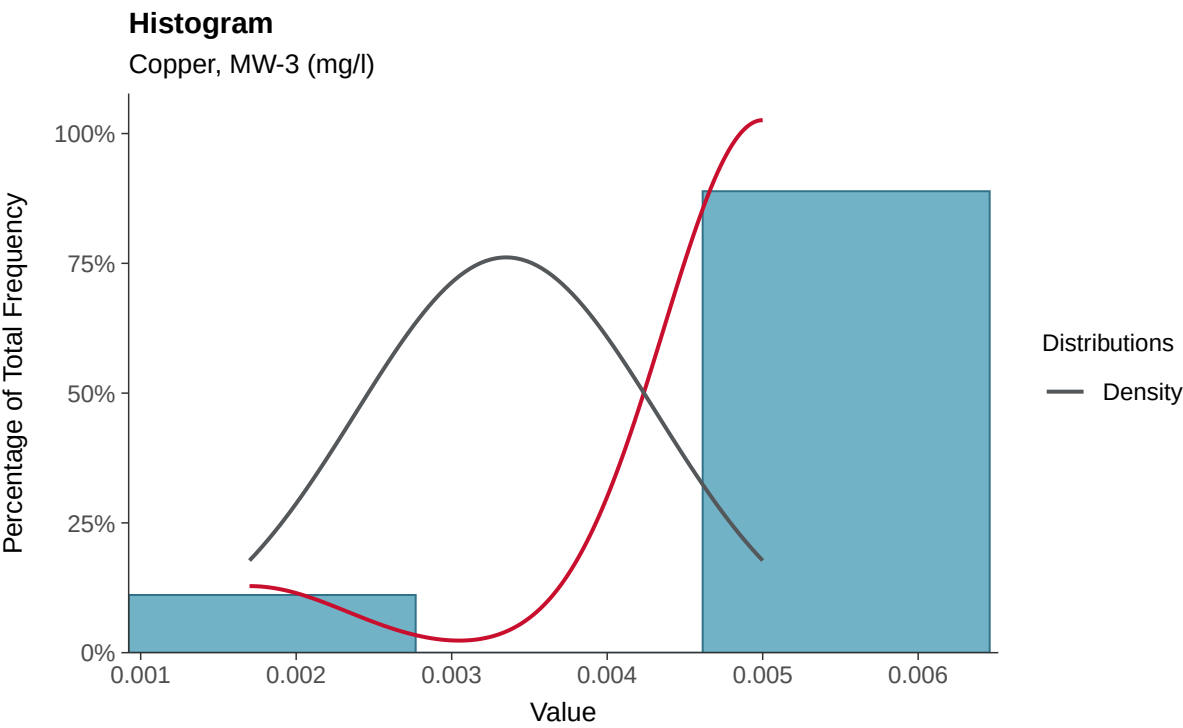
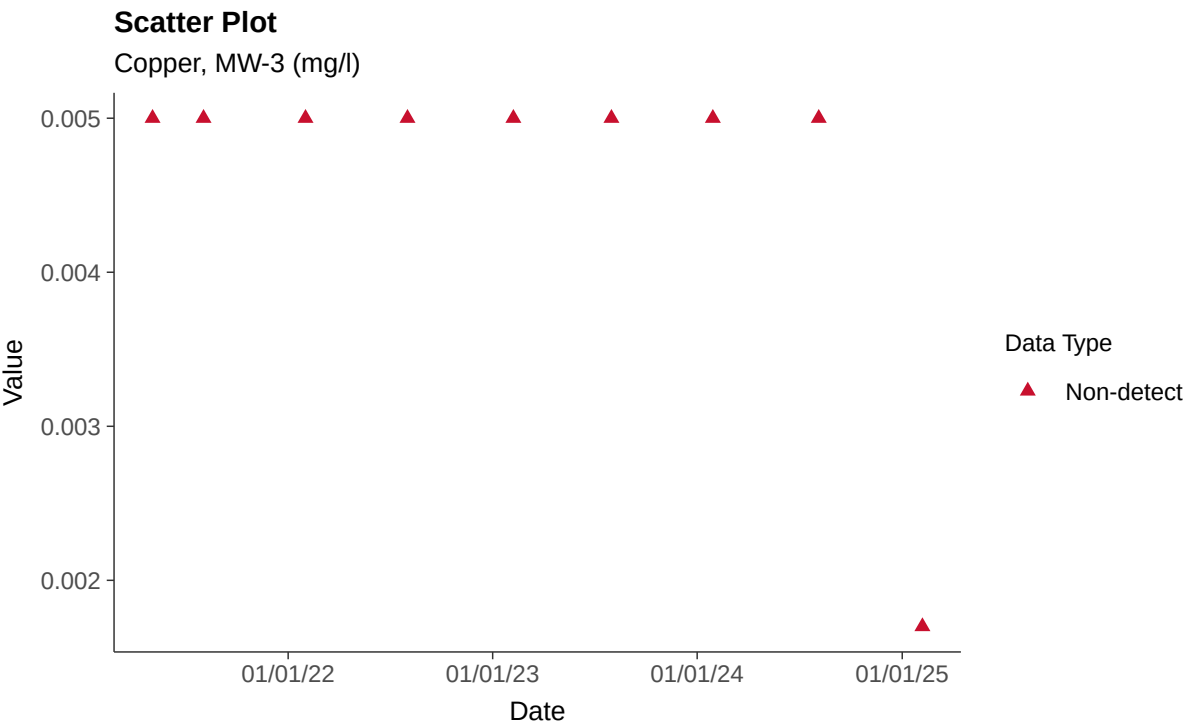


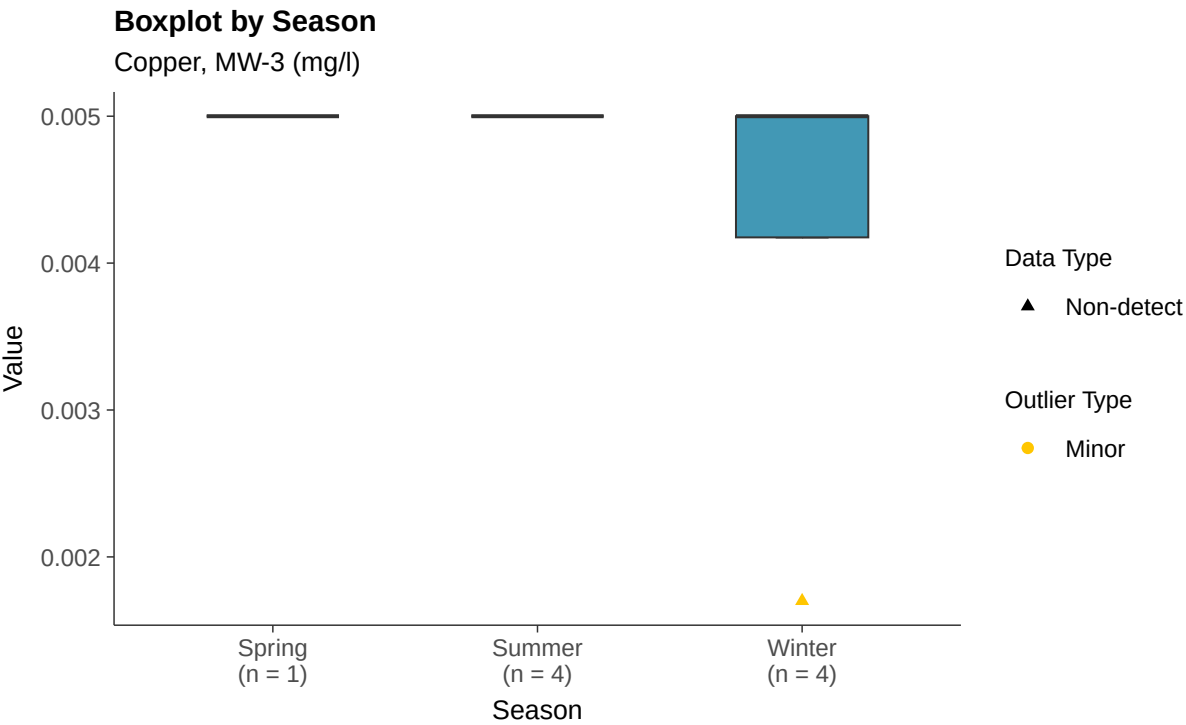
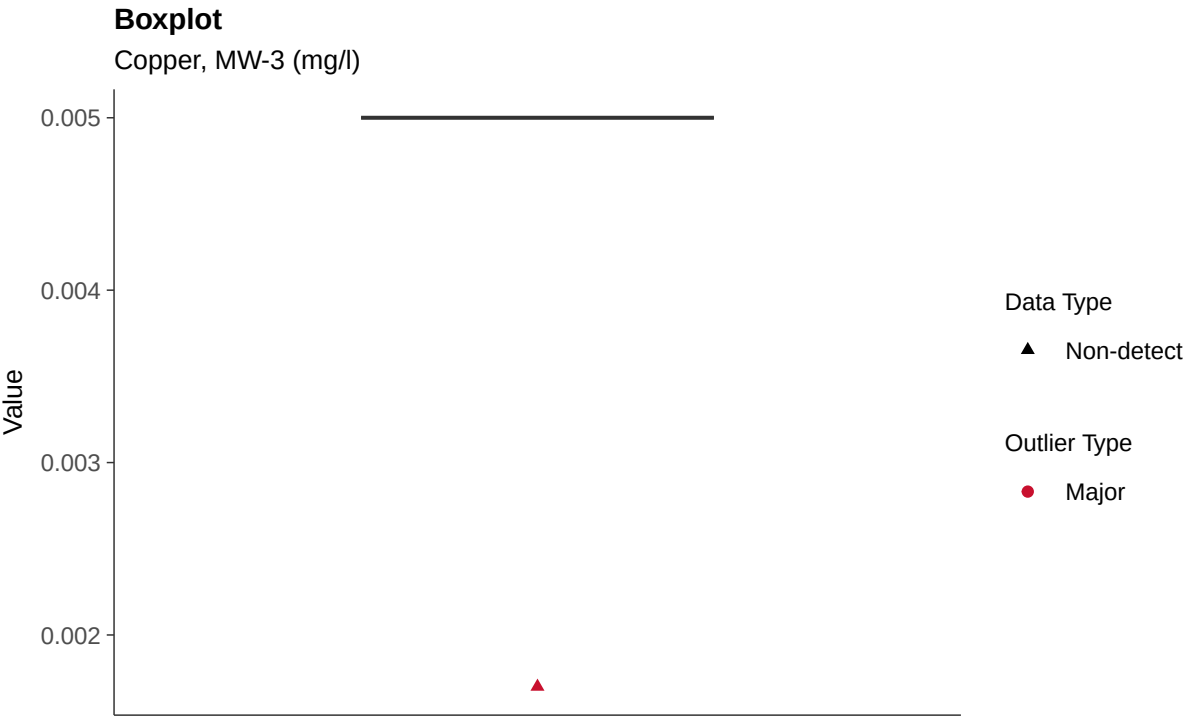




Part 115: Copper, MW-3

ID: 12_5_111

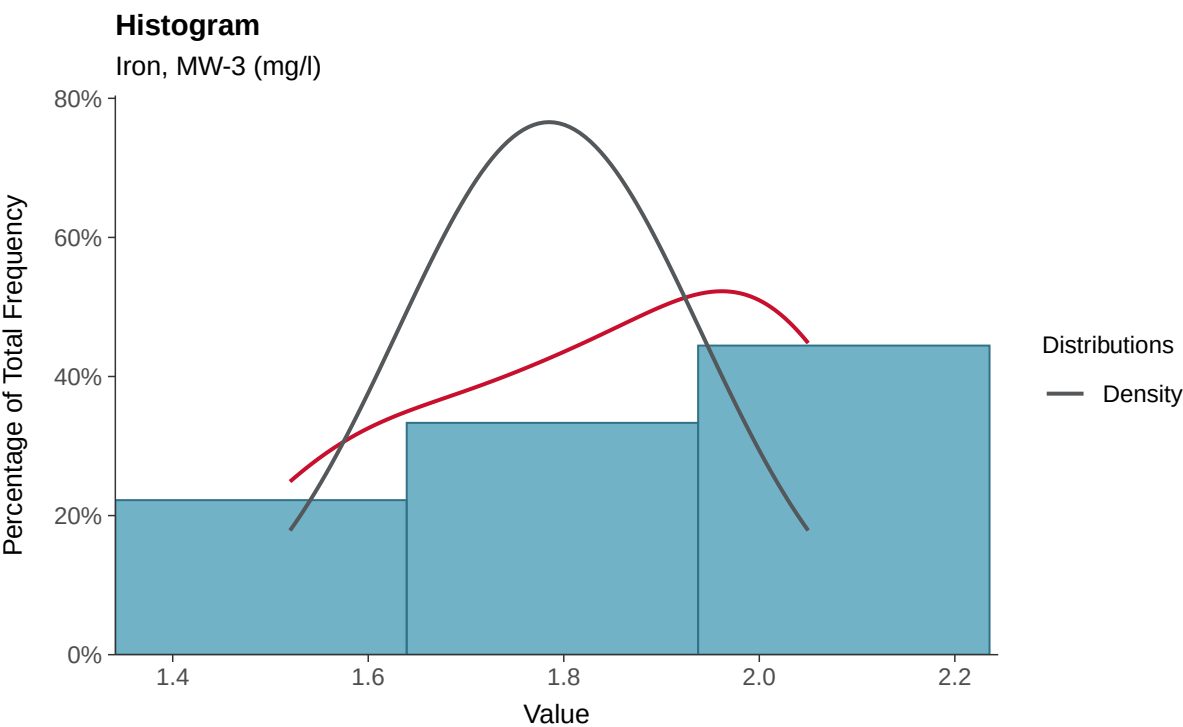
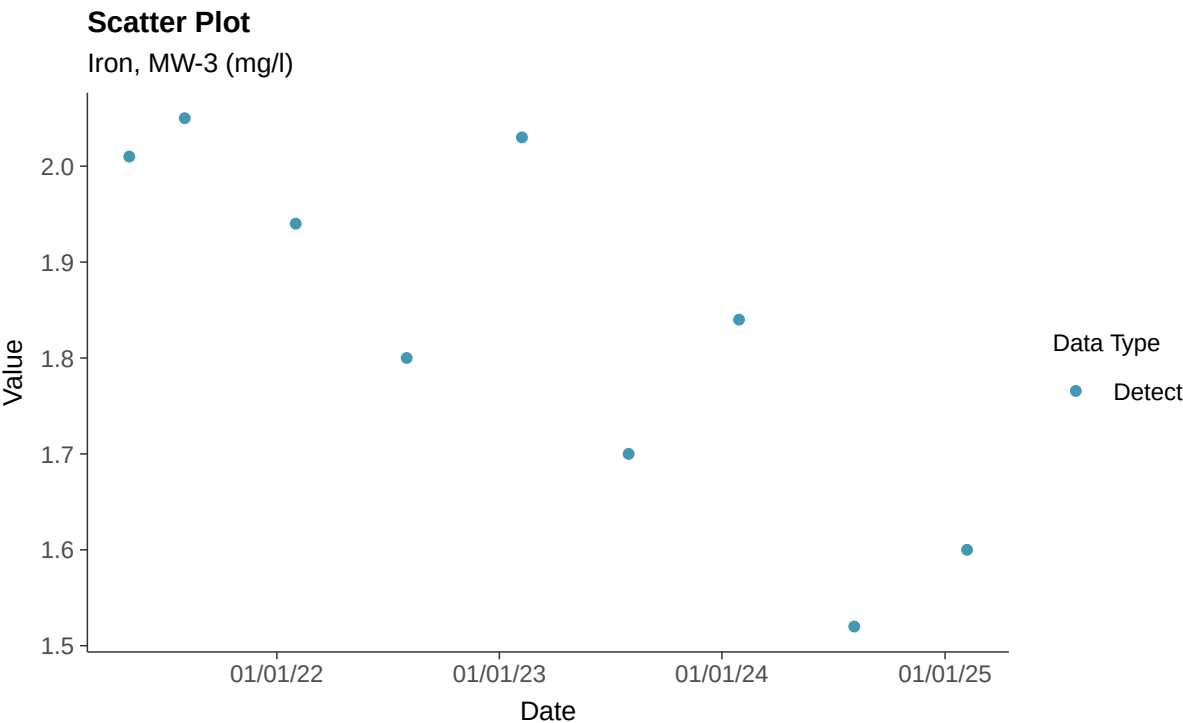


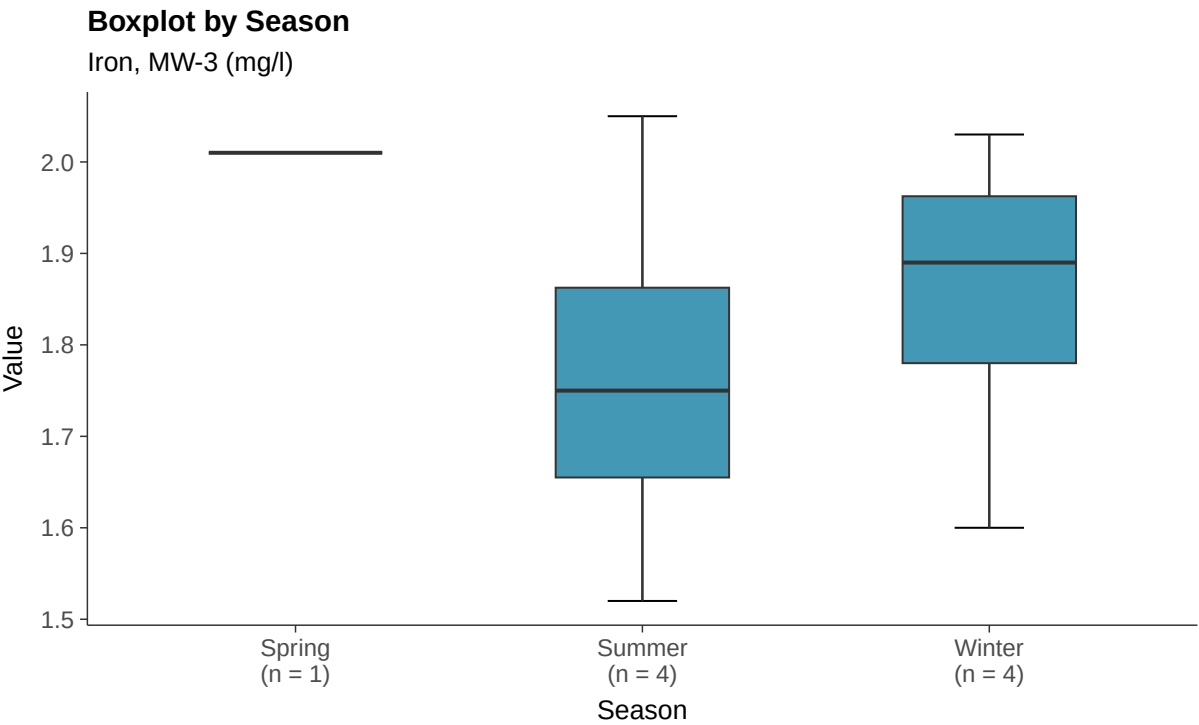
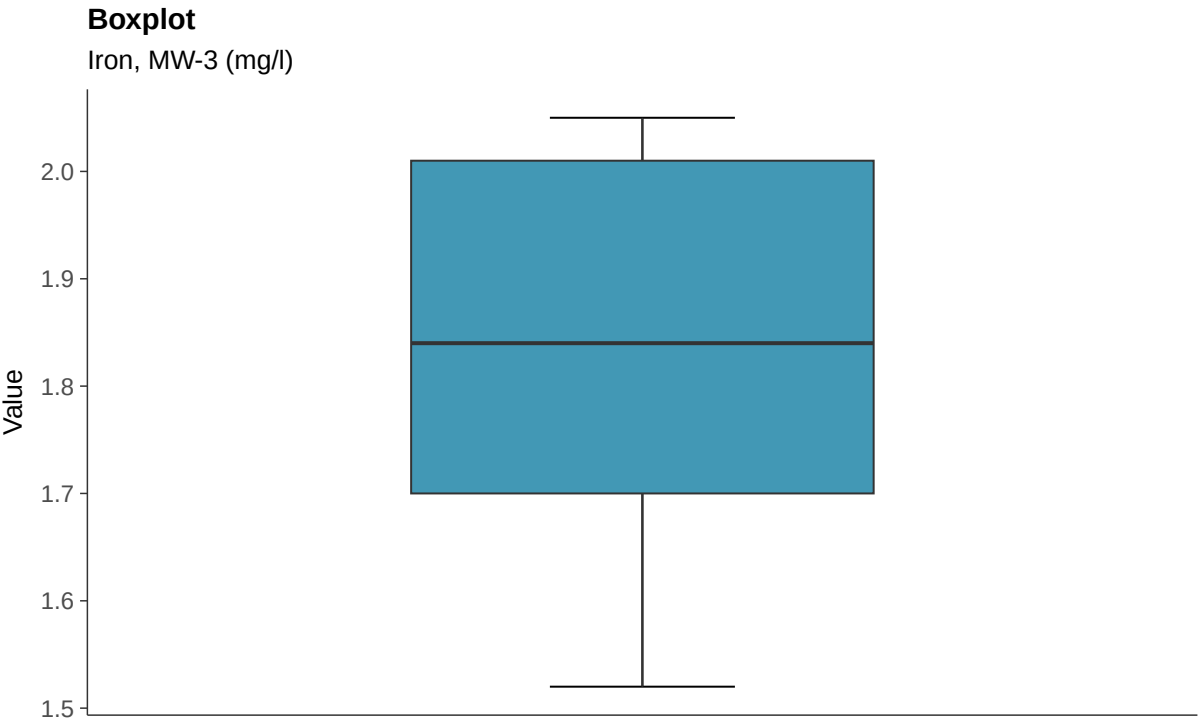


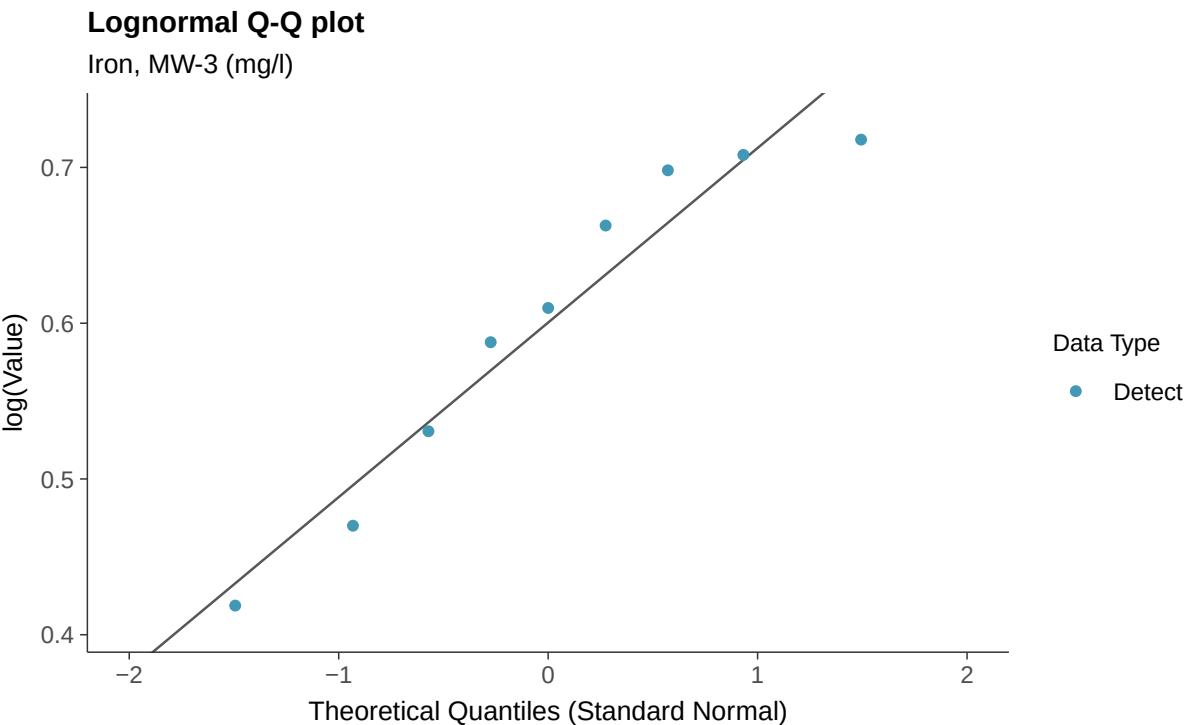
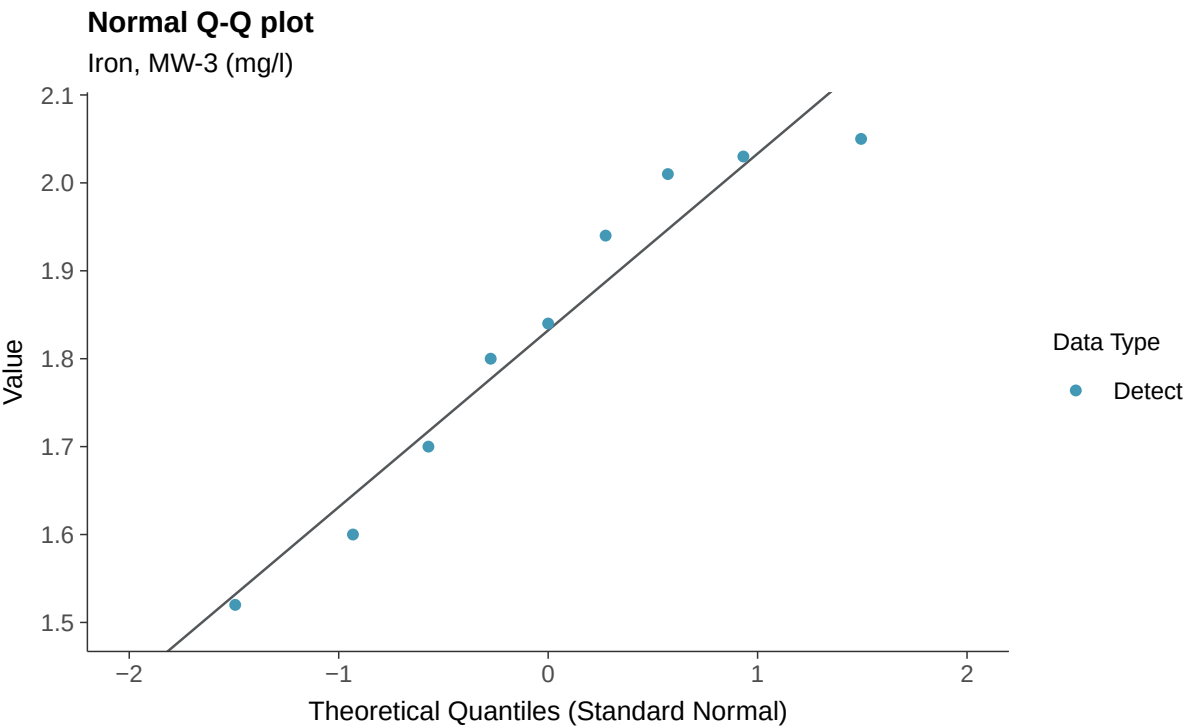


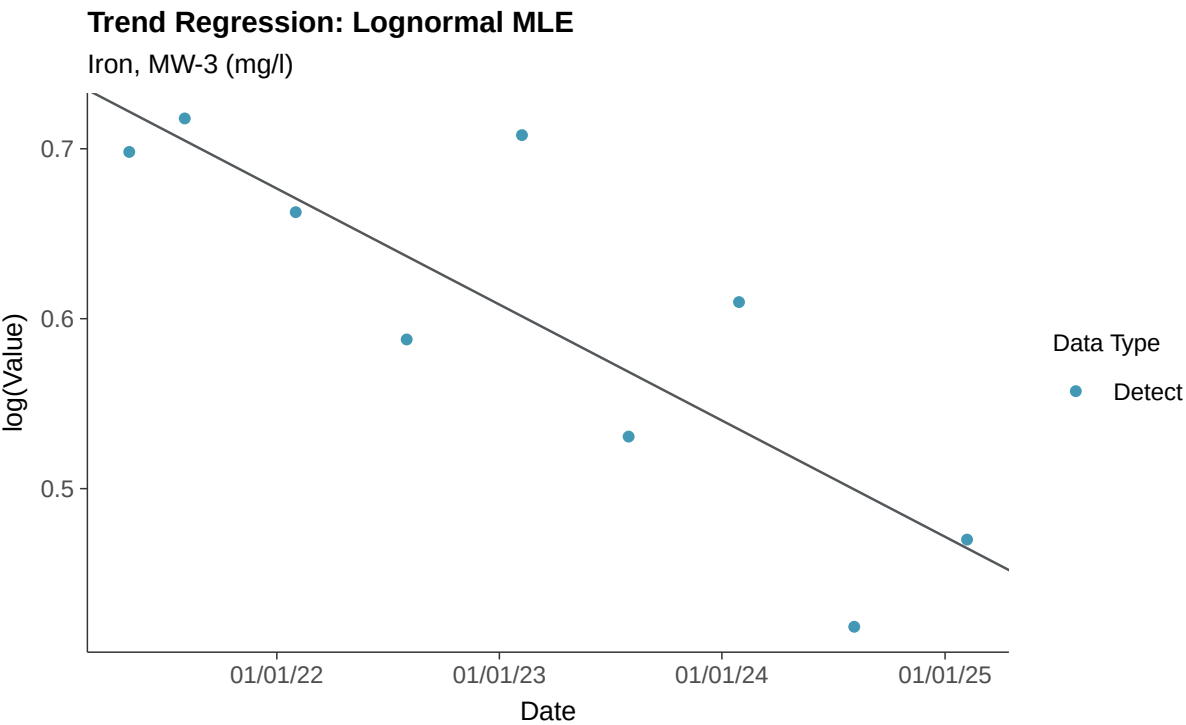
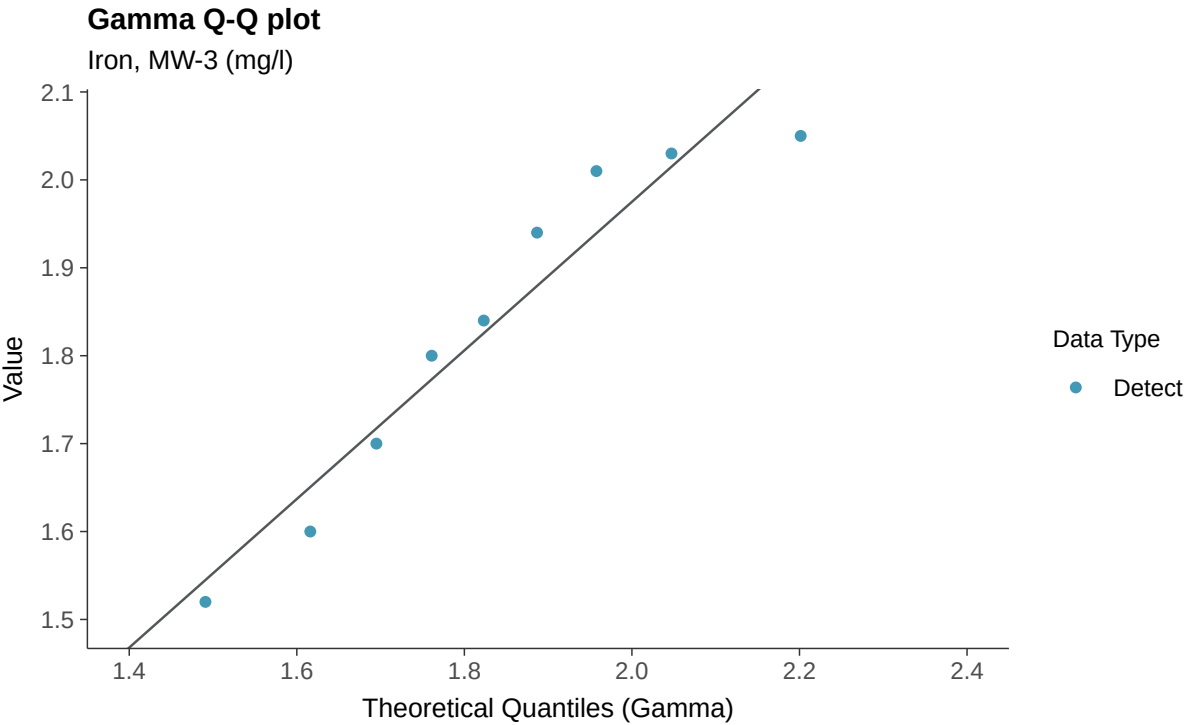
Part 115: Iron, MW-3

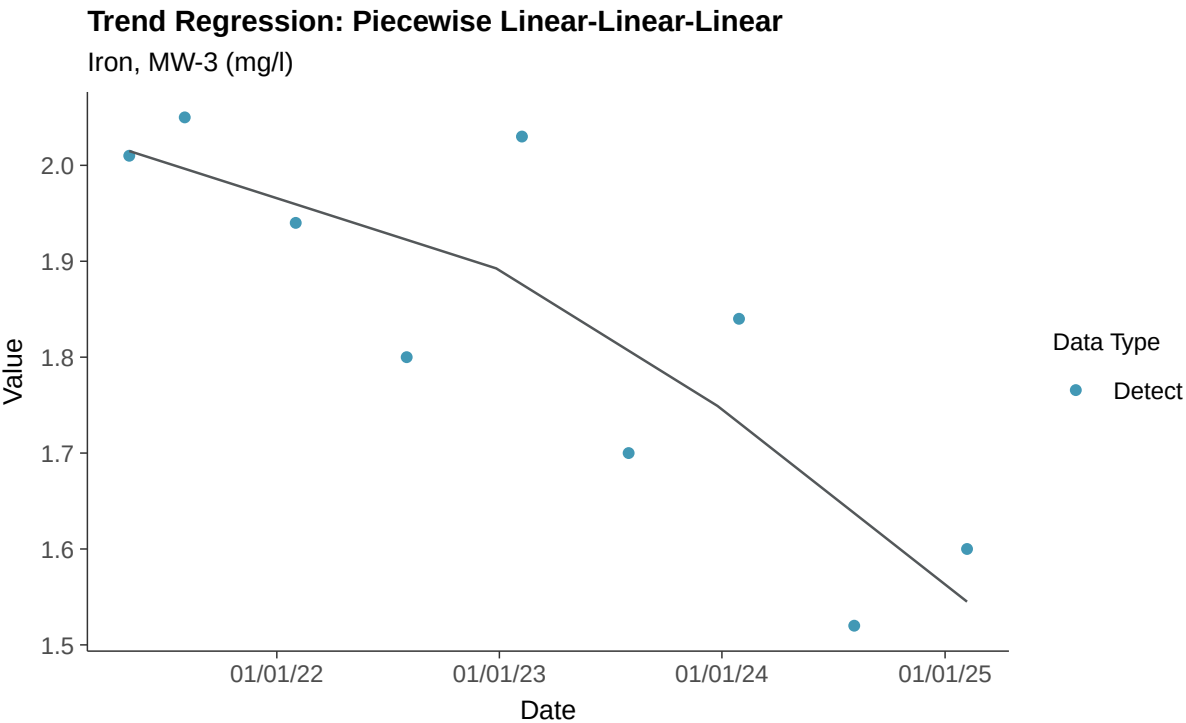
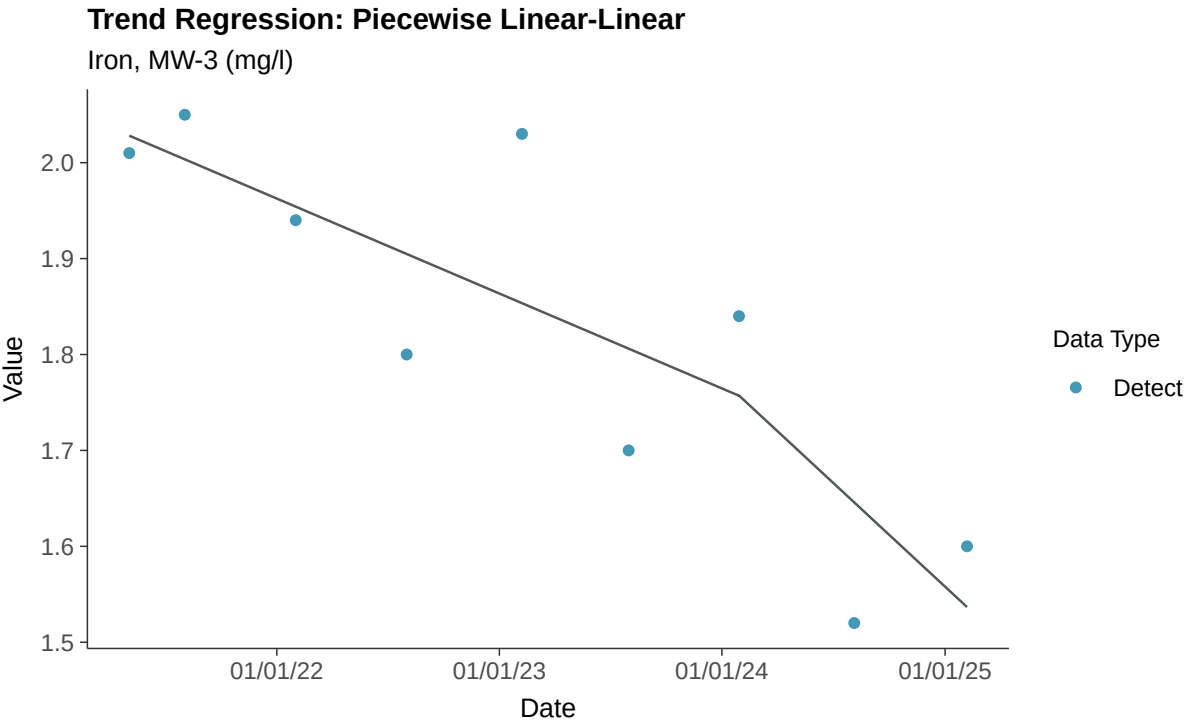
ID: 12_5_114







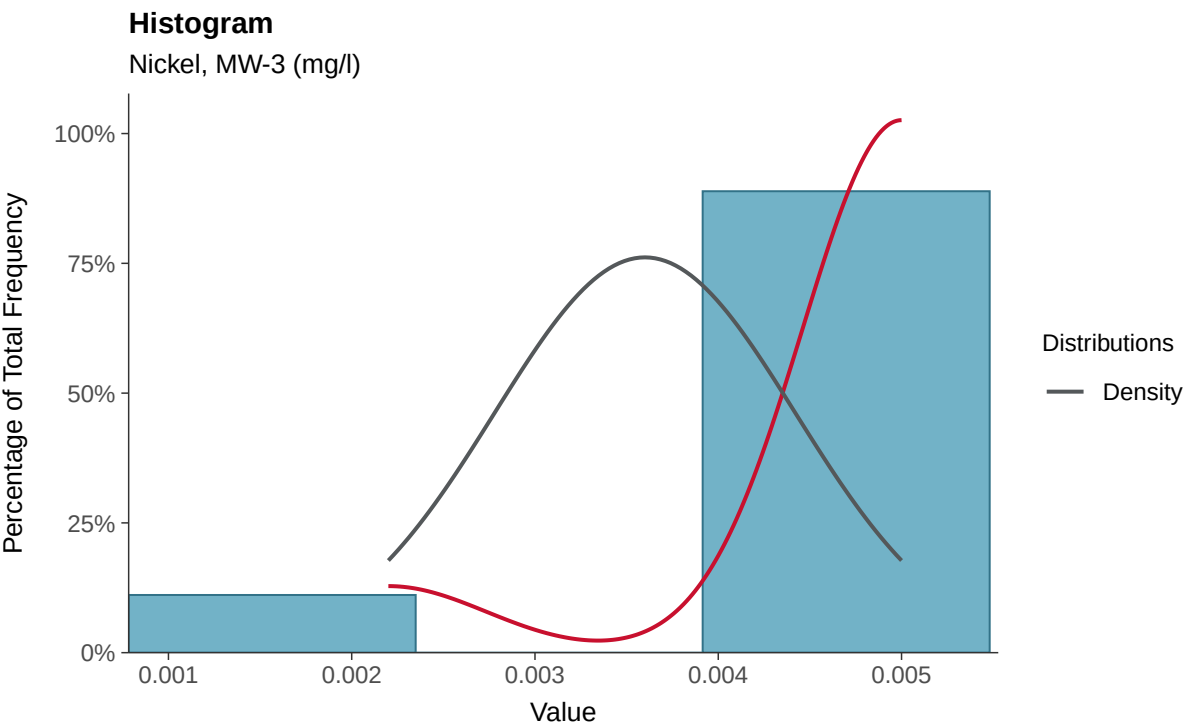
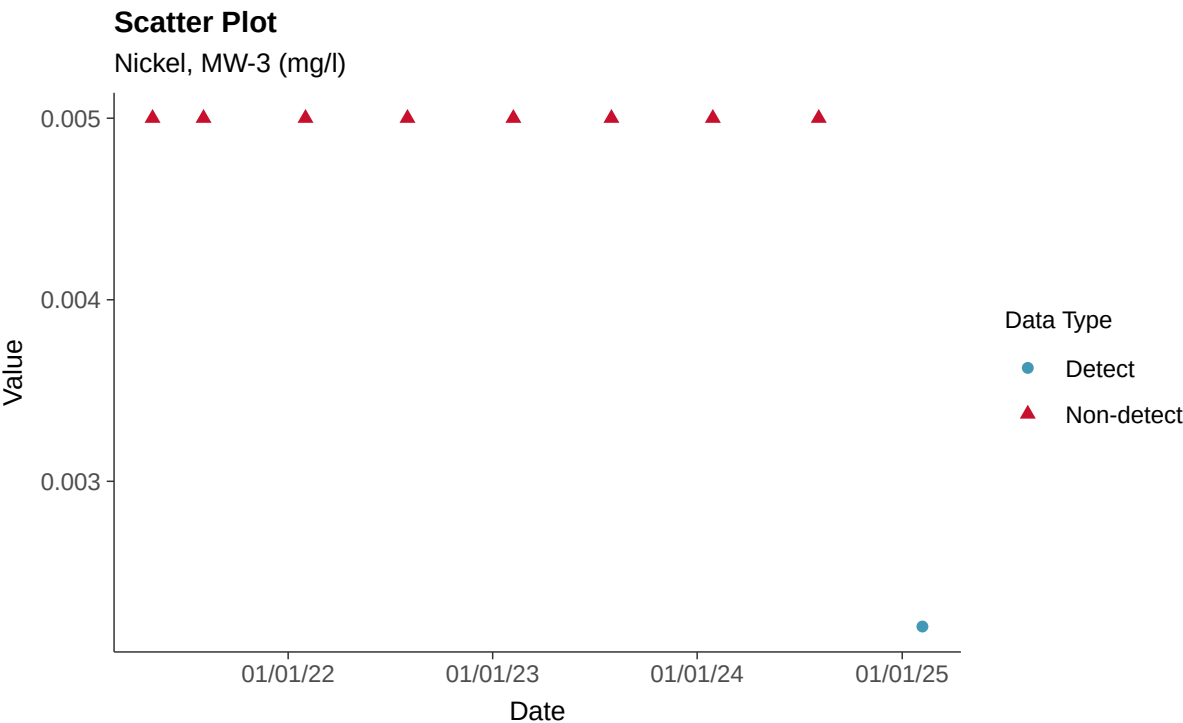


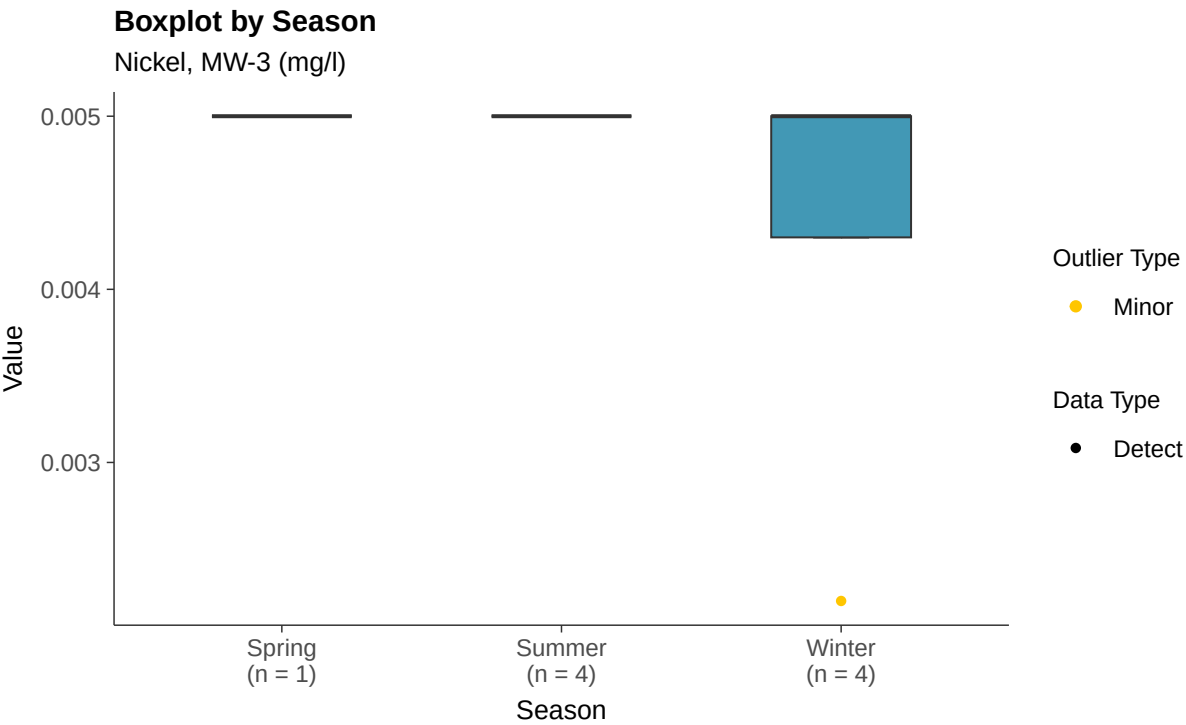
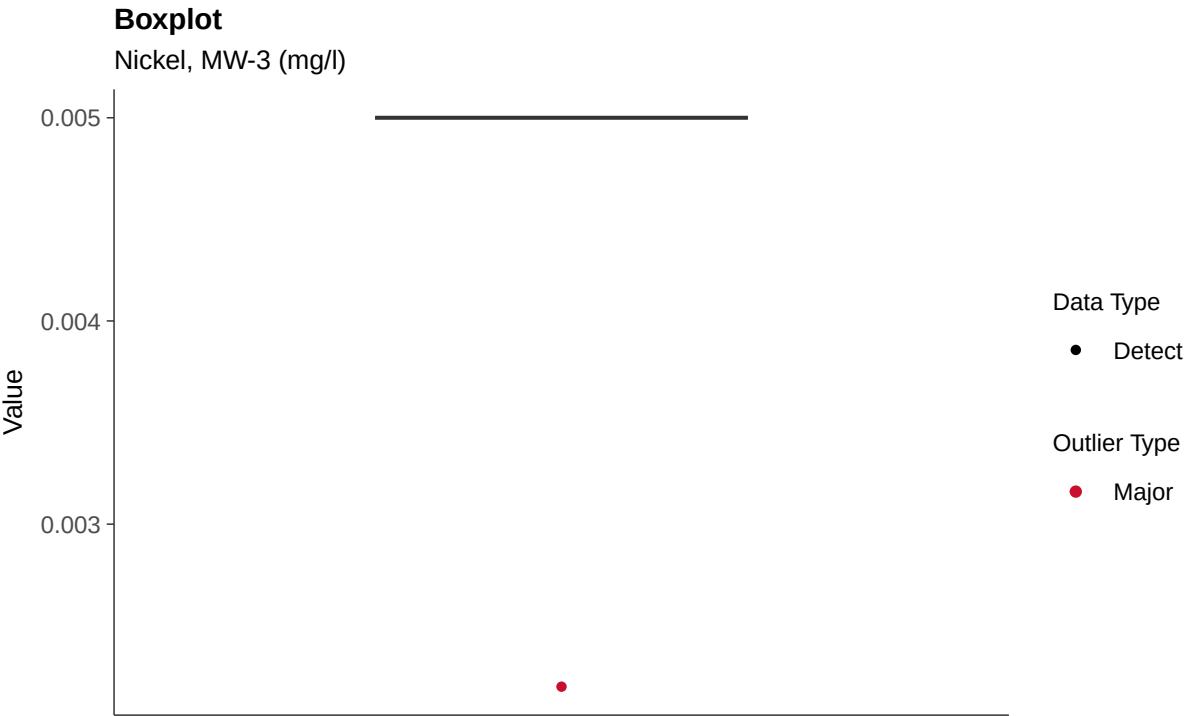




Part 115: Nickel, MW-3

ID: 12_5_119

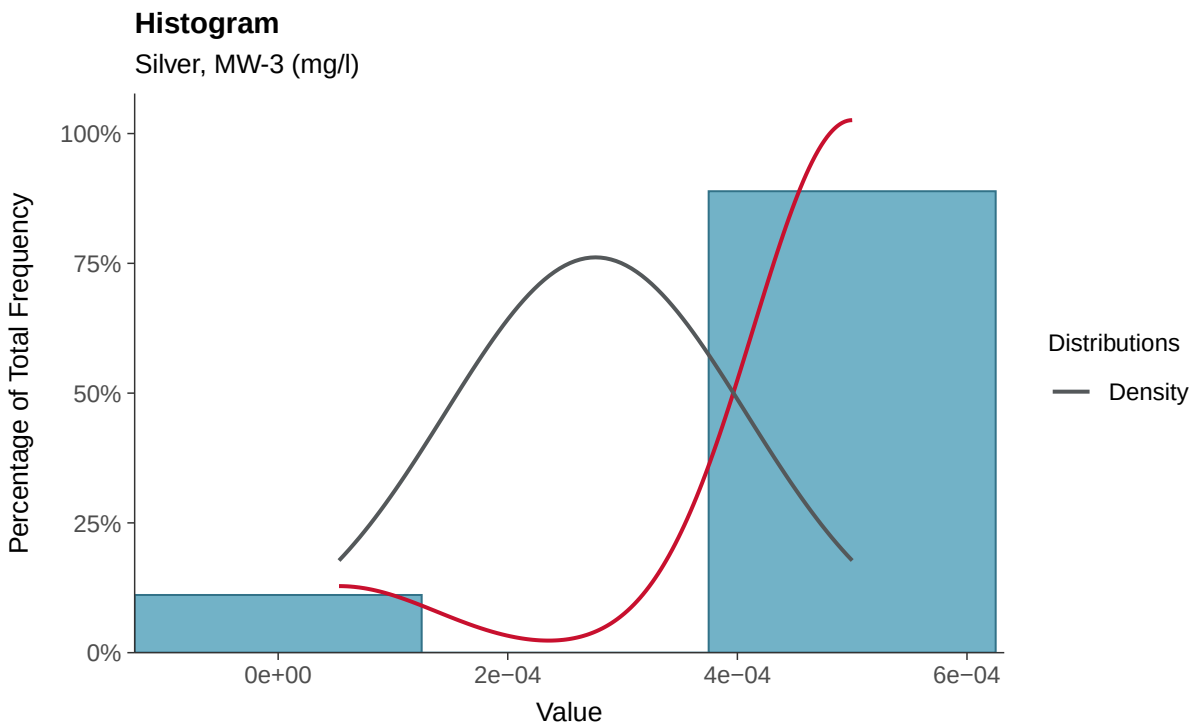
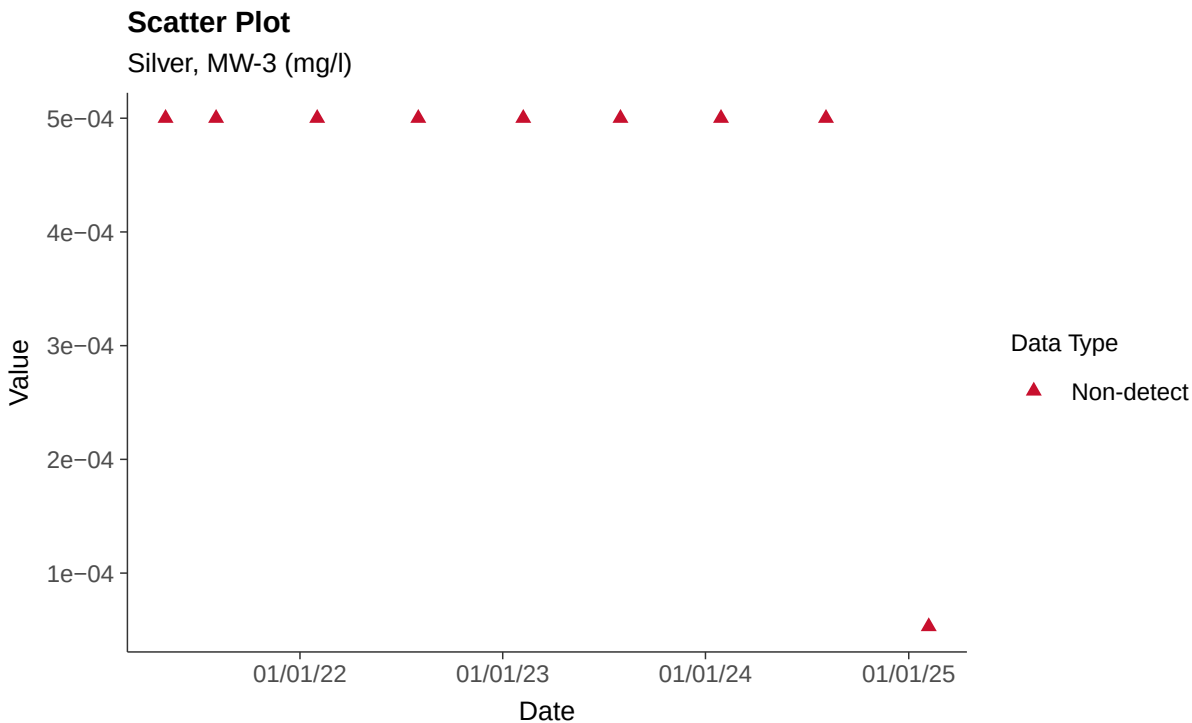


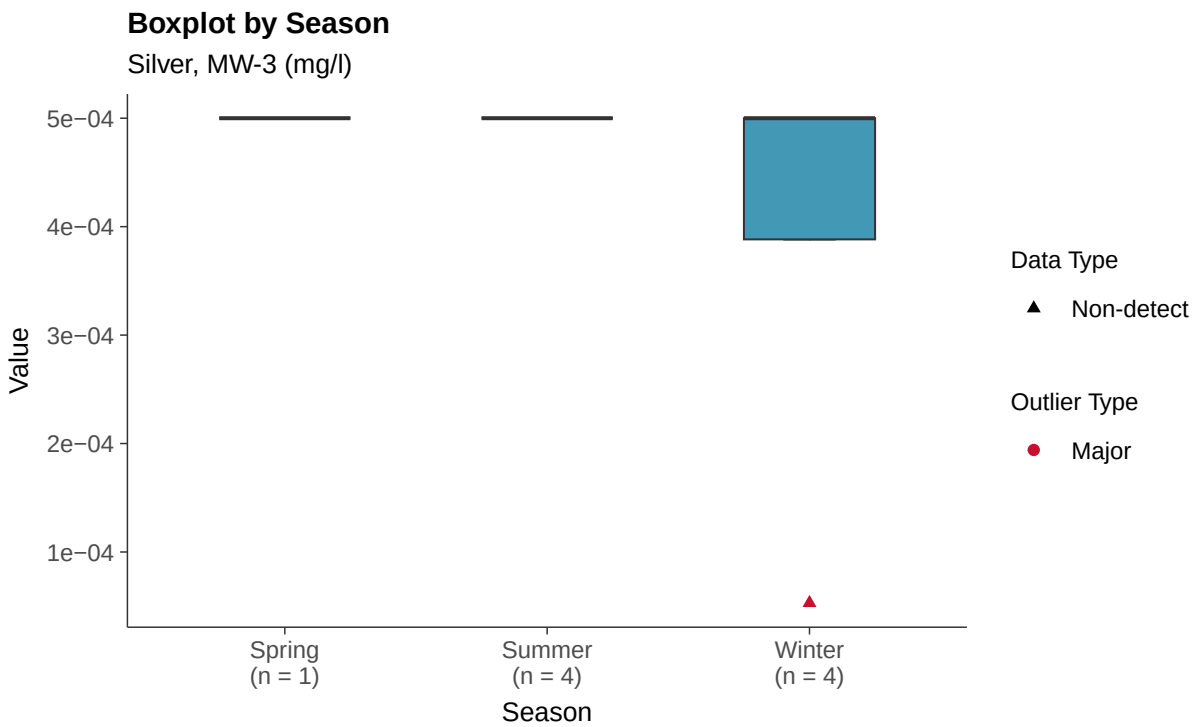
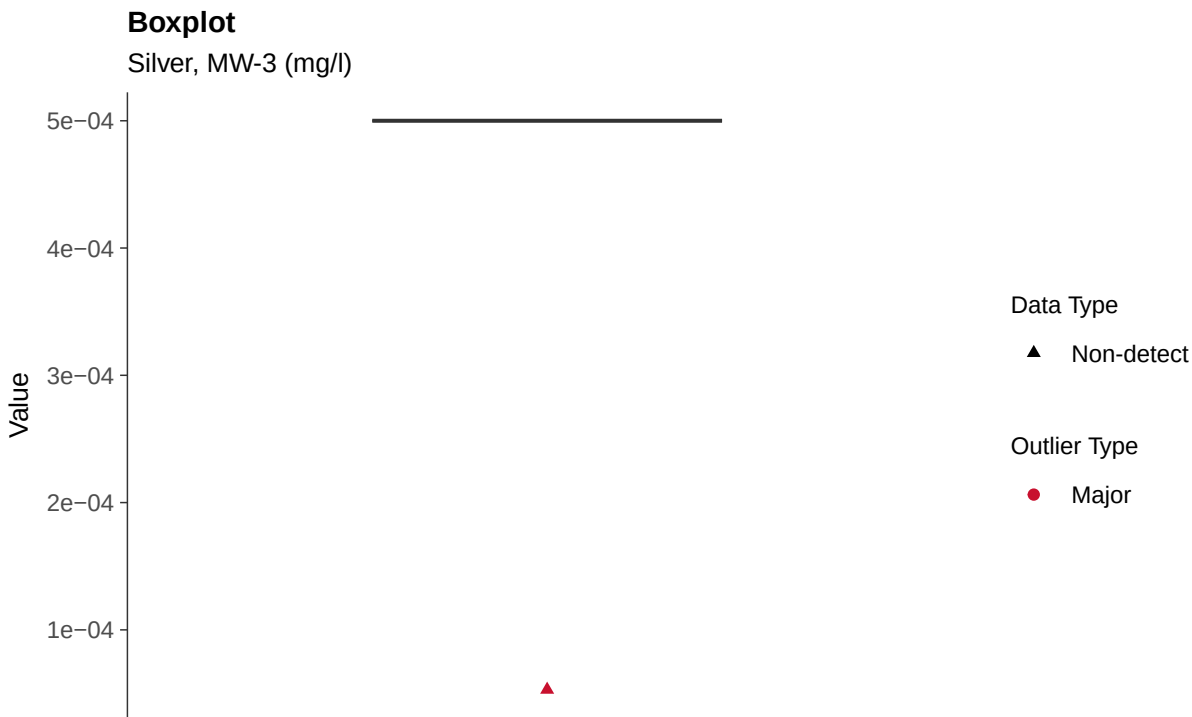


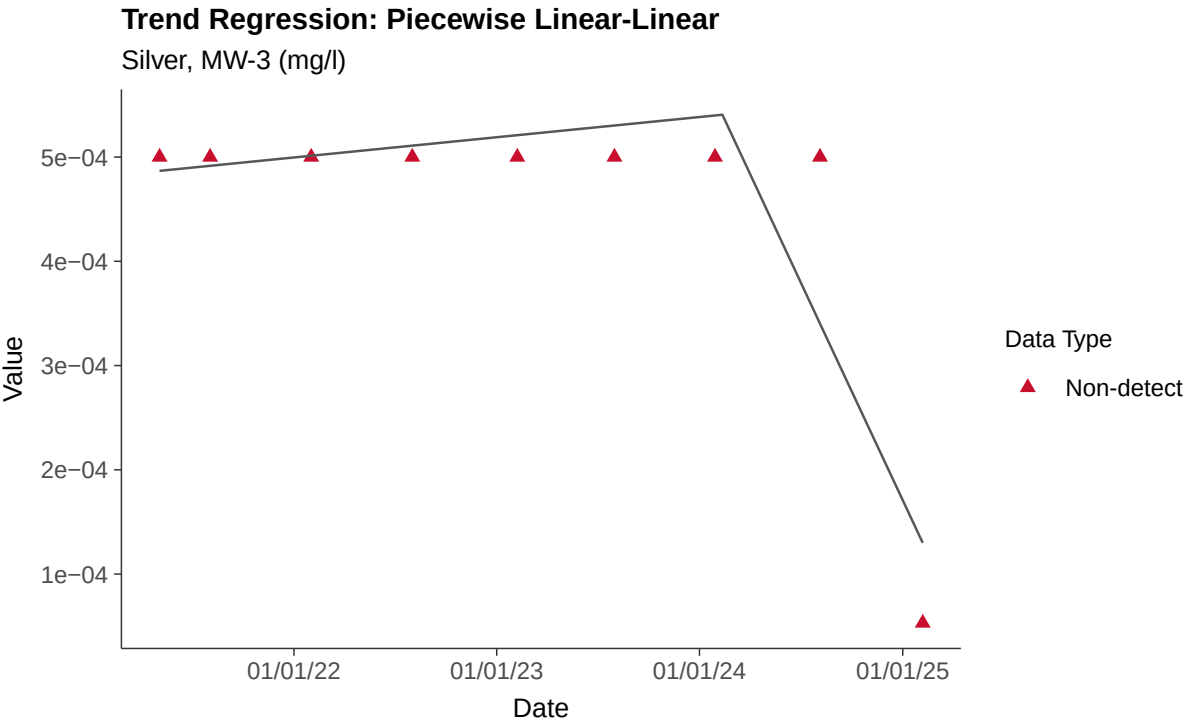


Part 115: Silver, MW-3

ID: 12_5_123



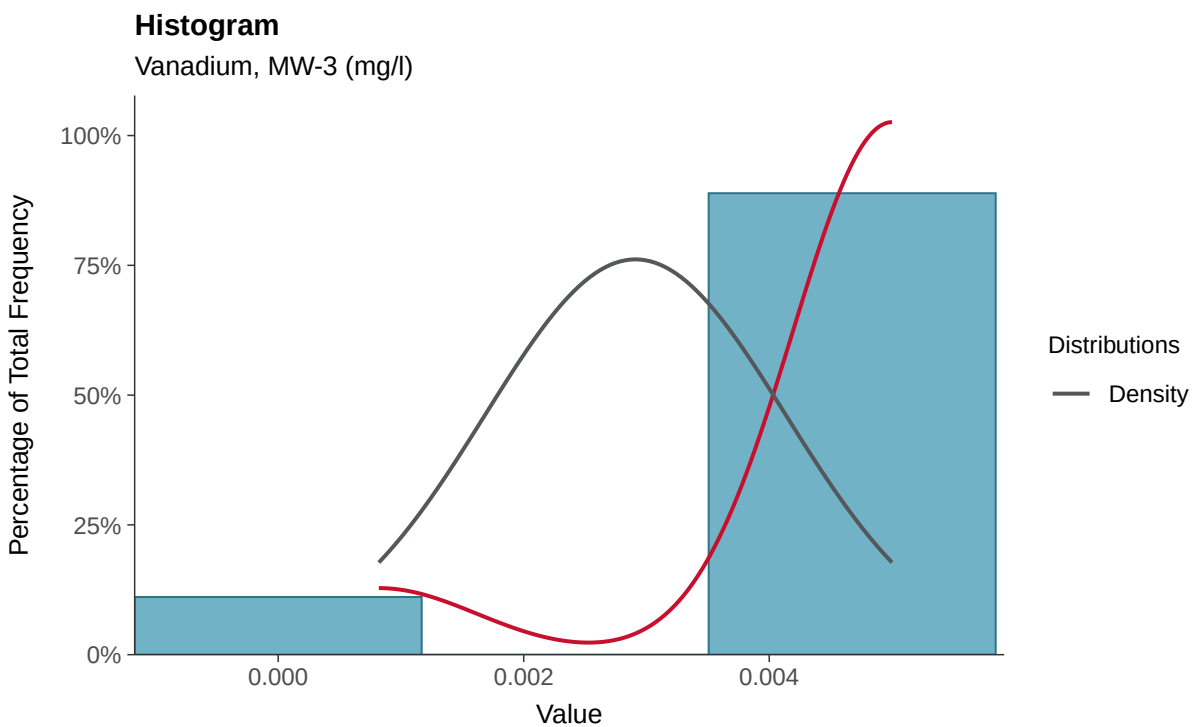
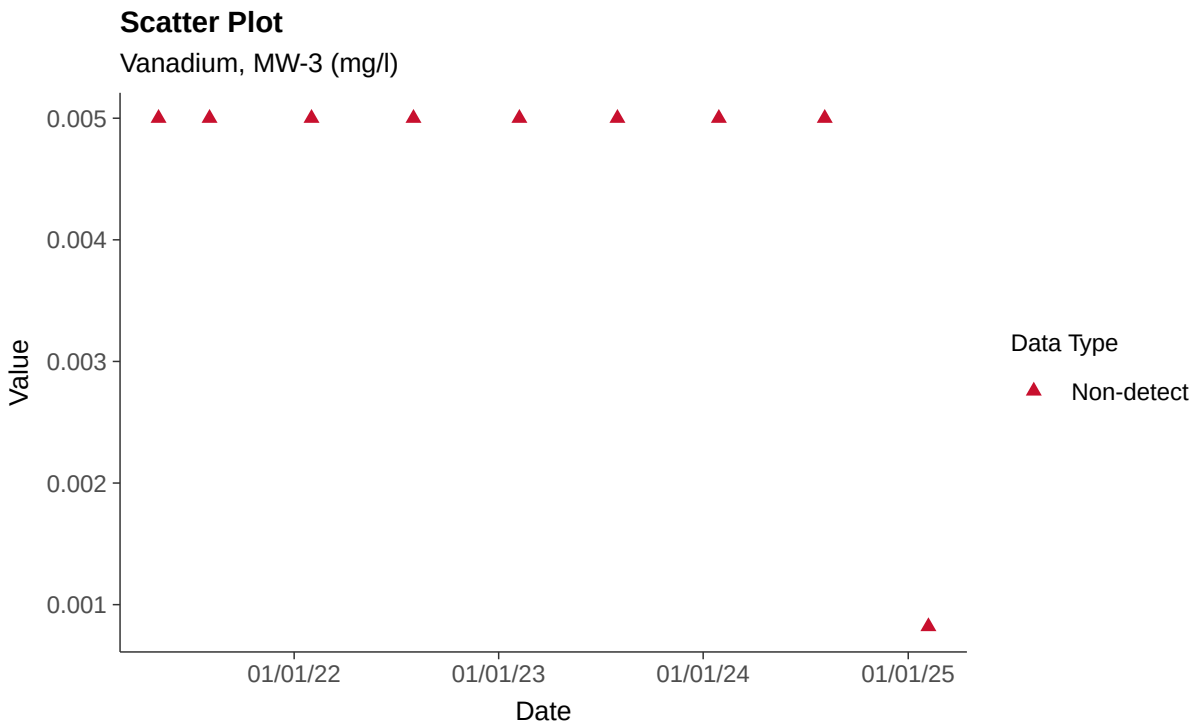


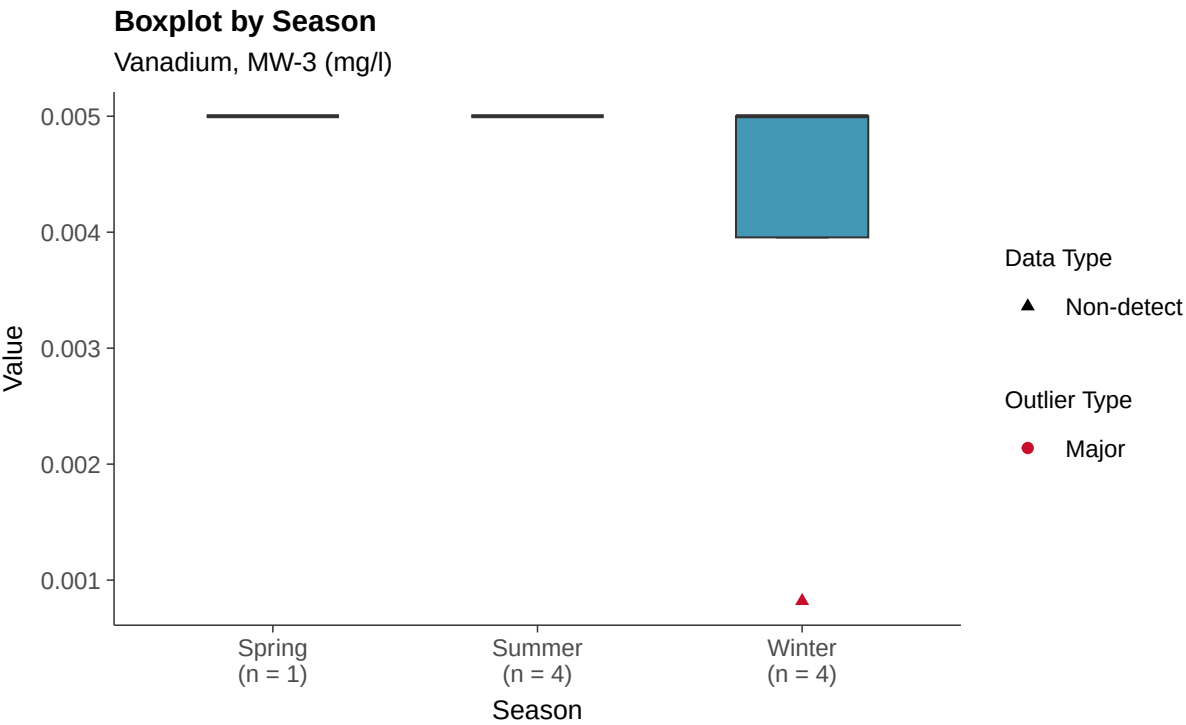
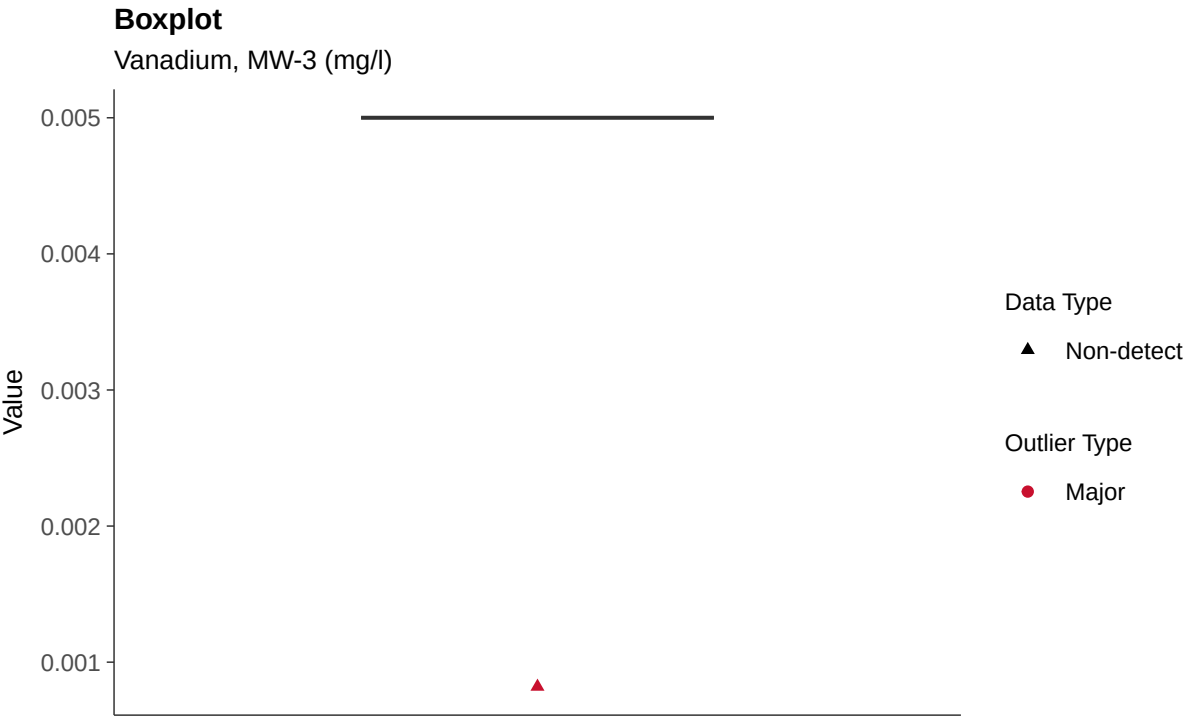




Part 115: Vanadium, MW-3

ID: 12_5_128

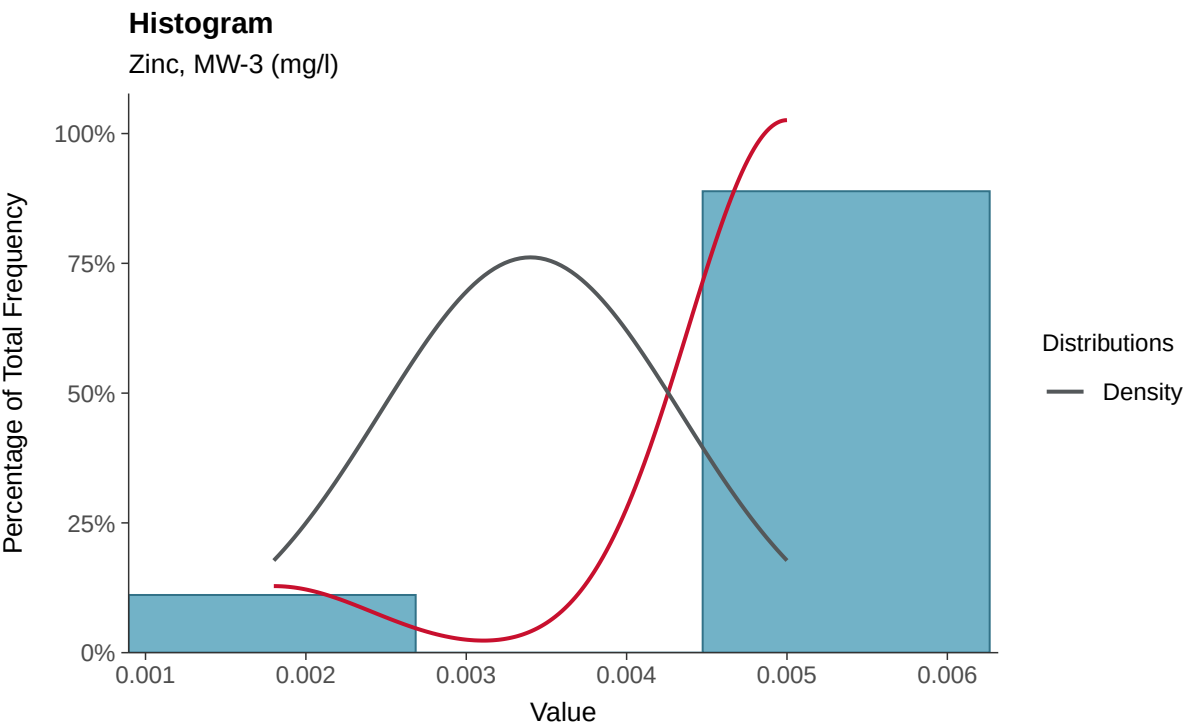
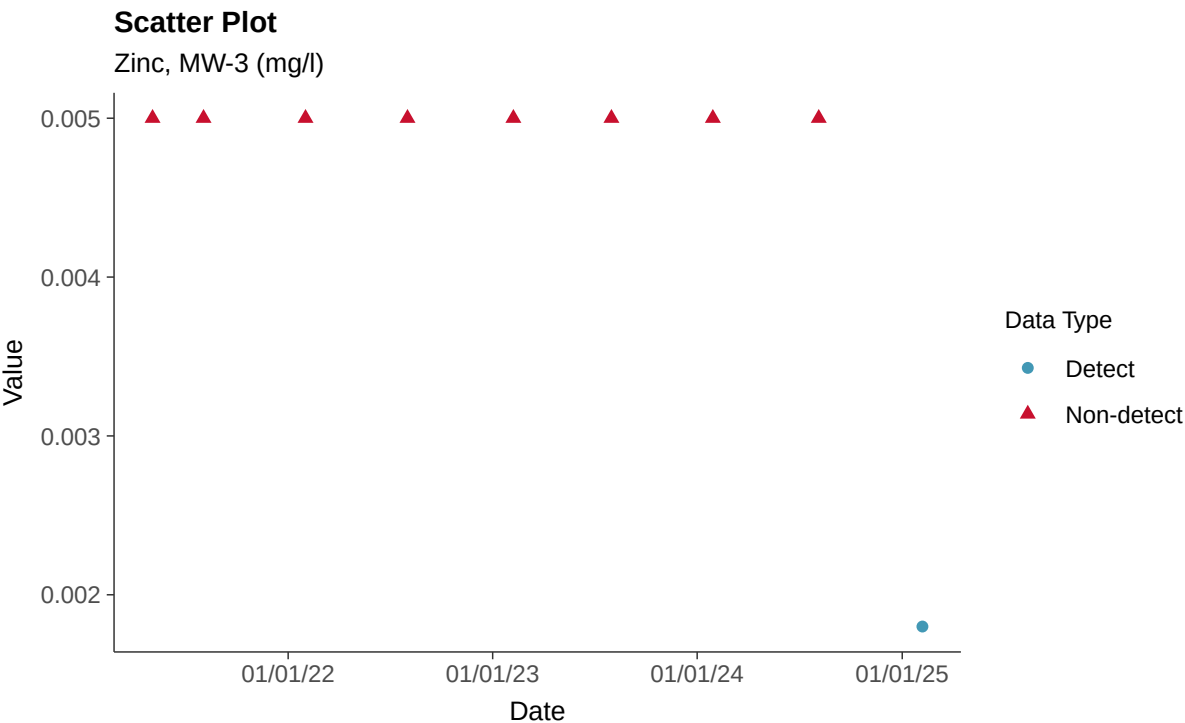


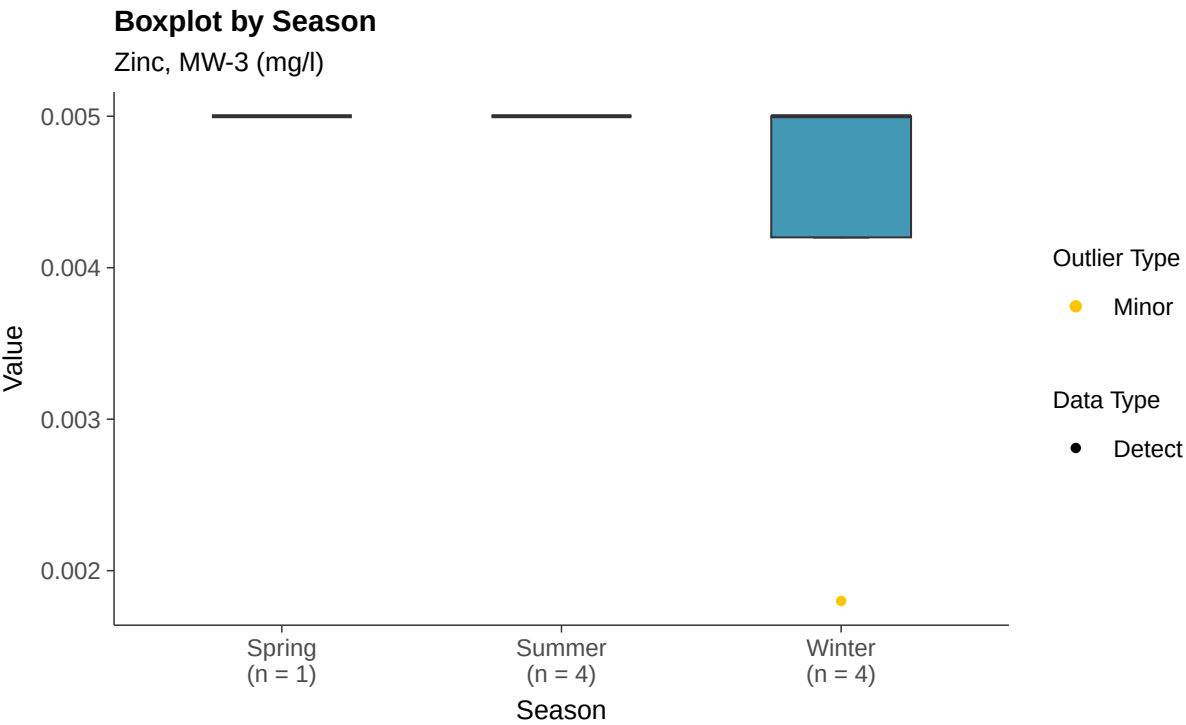
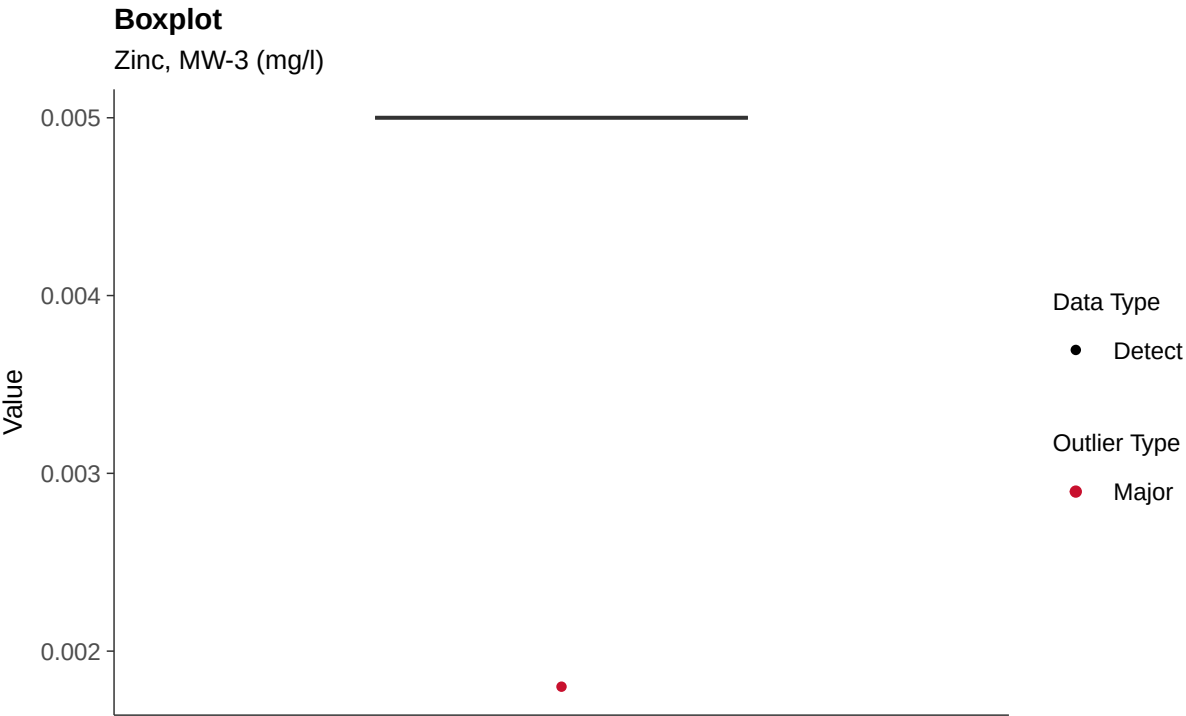




Part 115: Zinc, MW-3

ID: 12_5_129

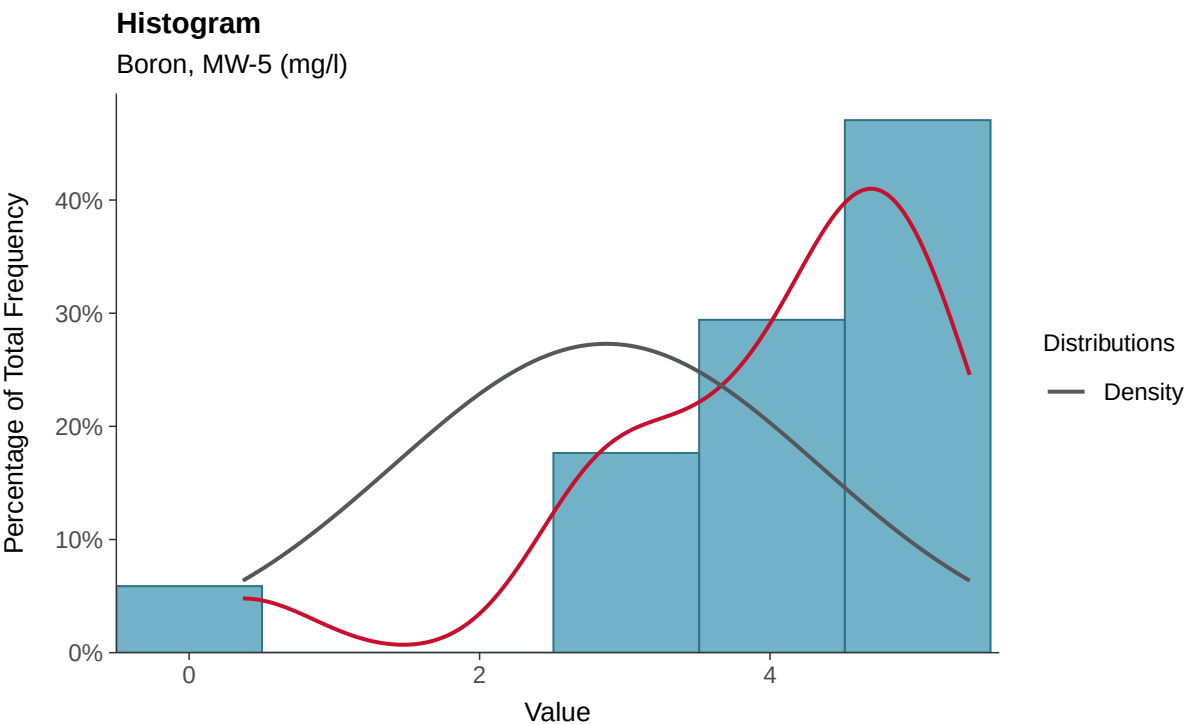
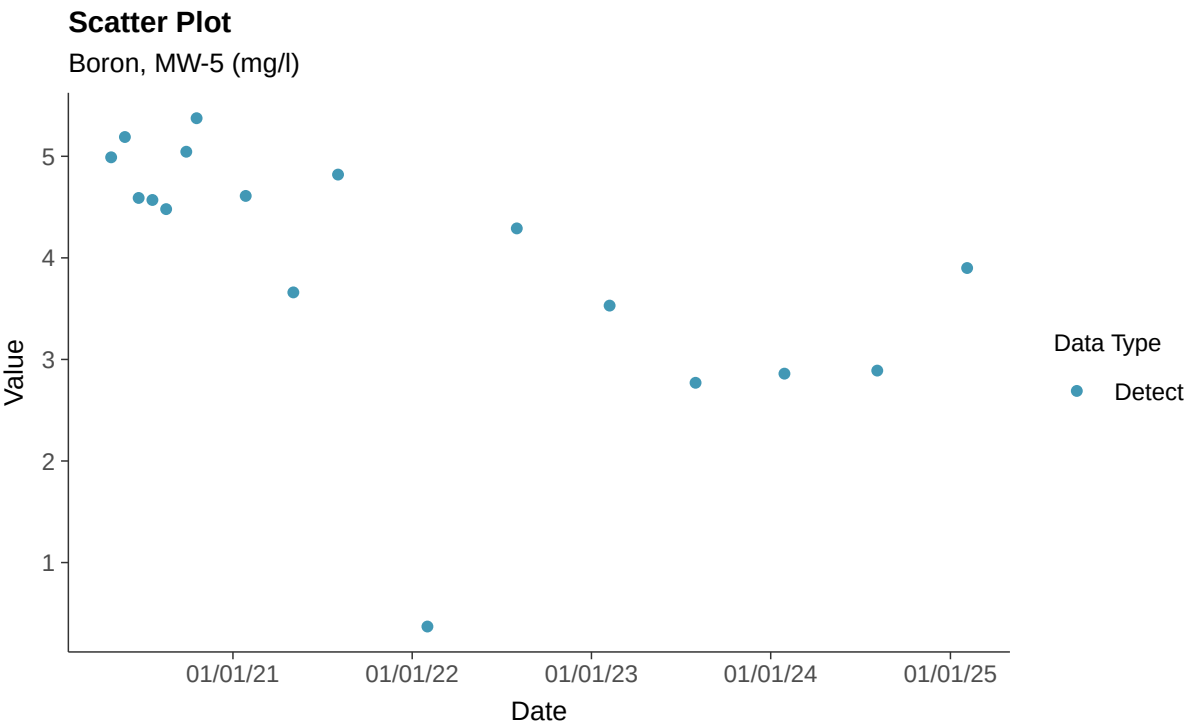


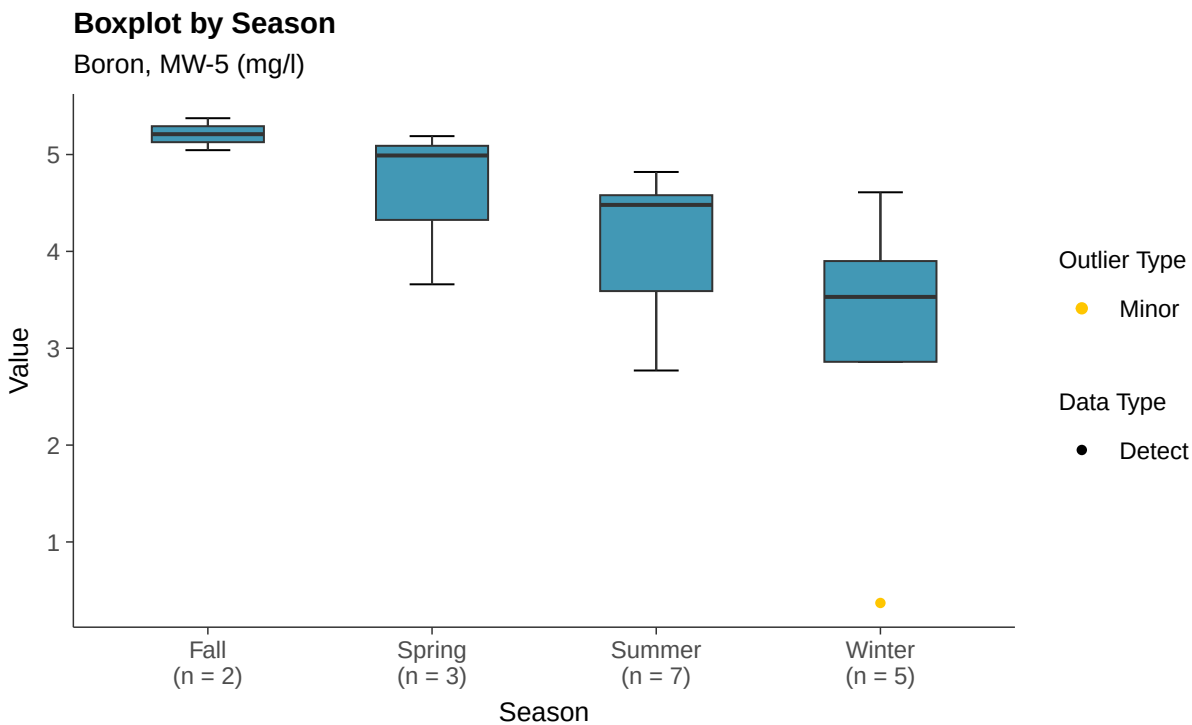
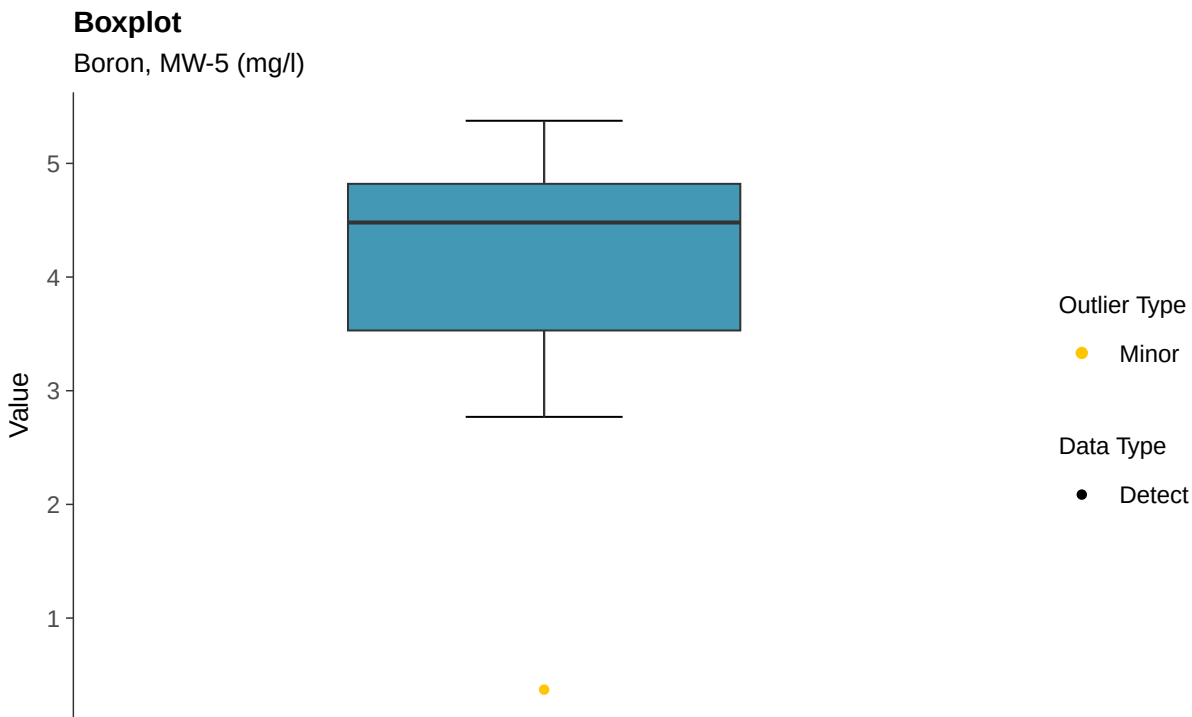


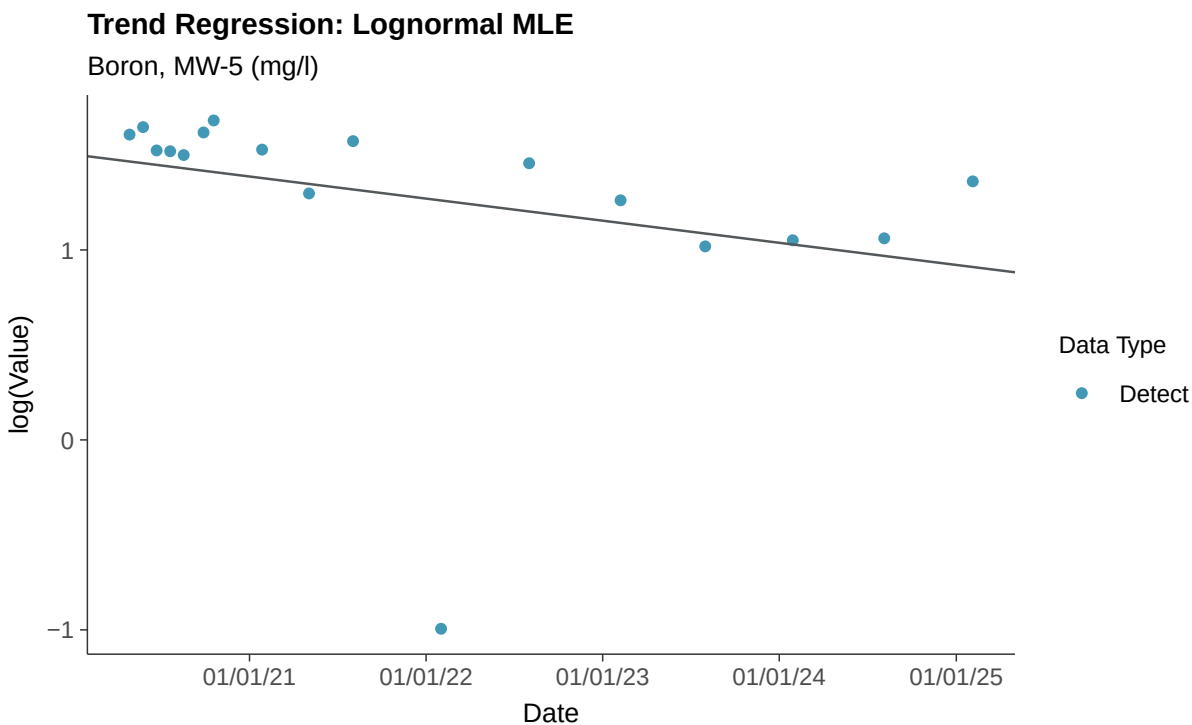
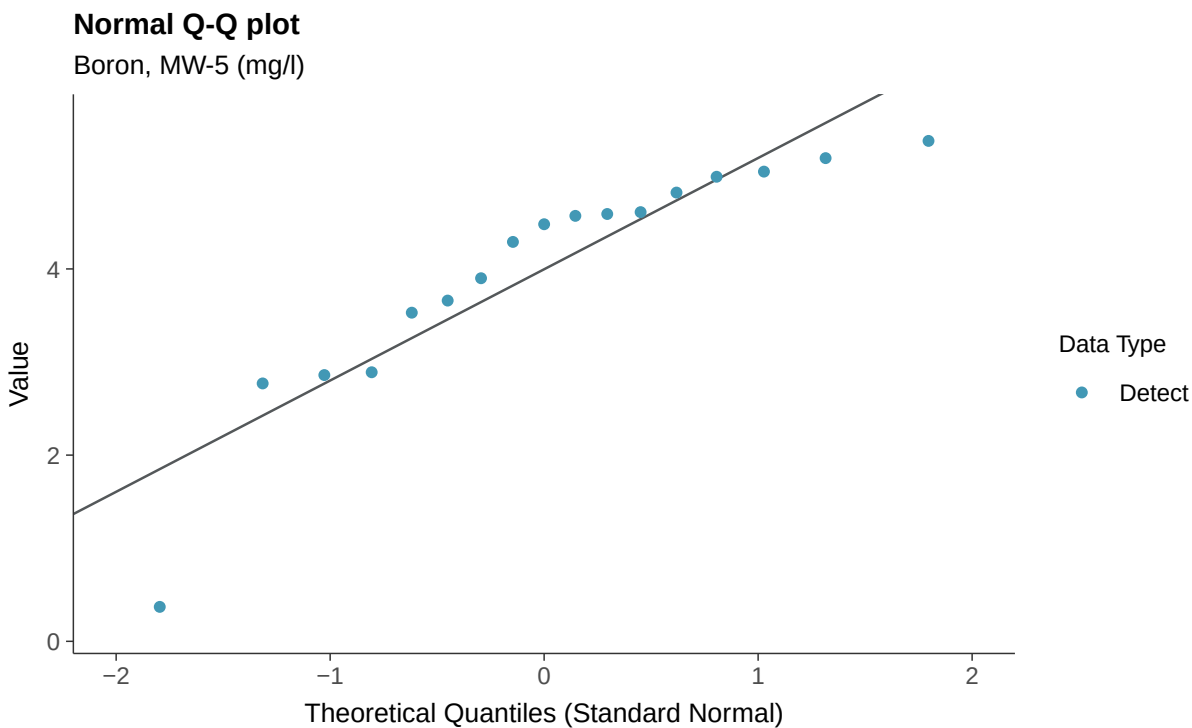


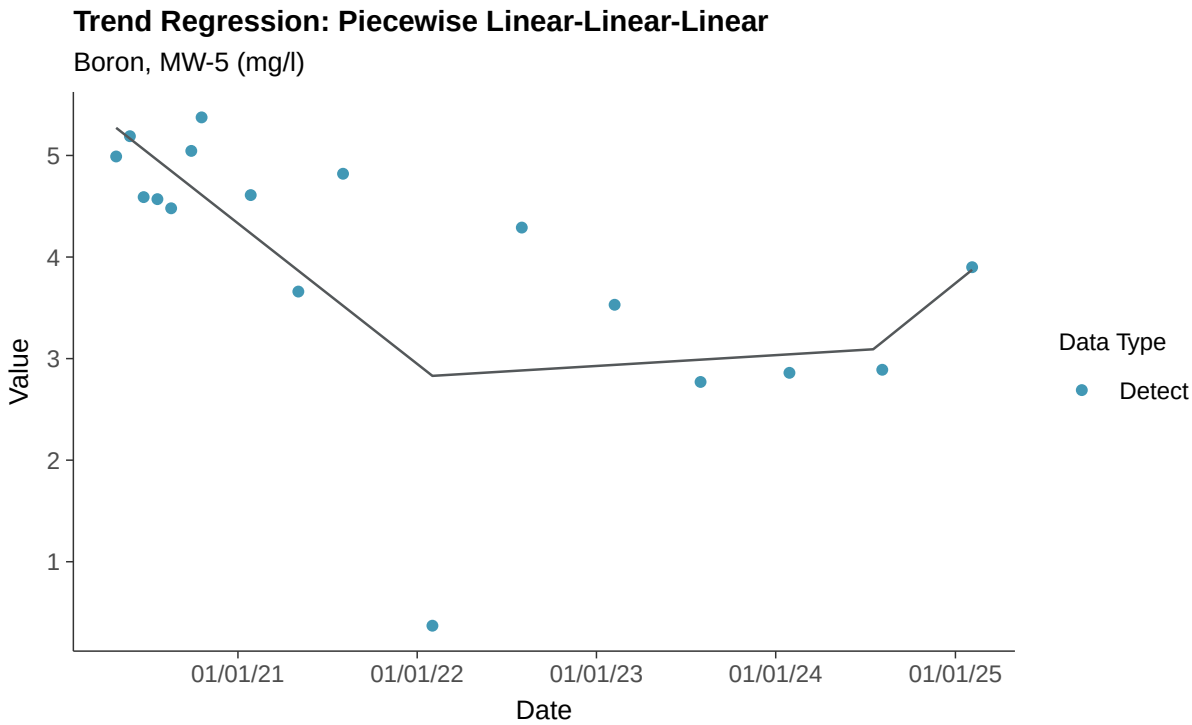
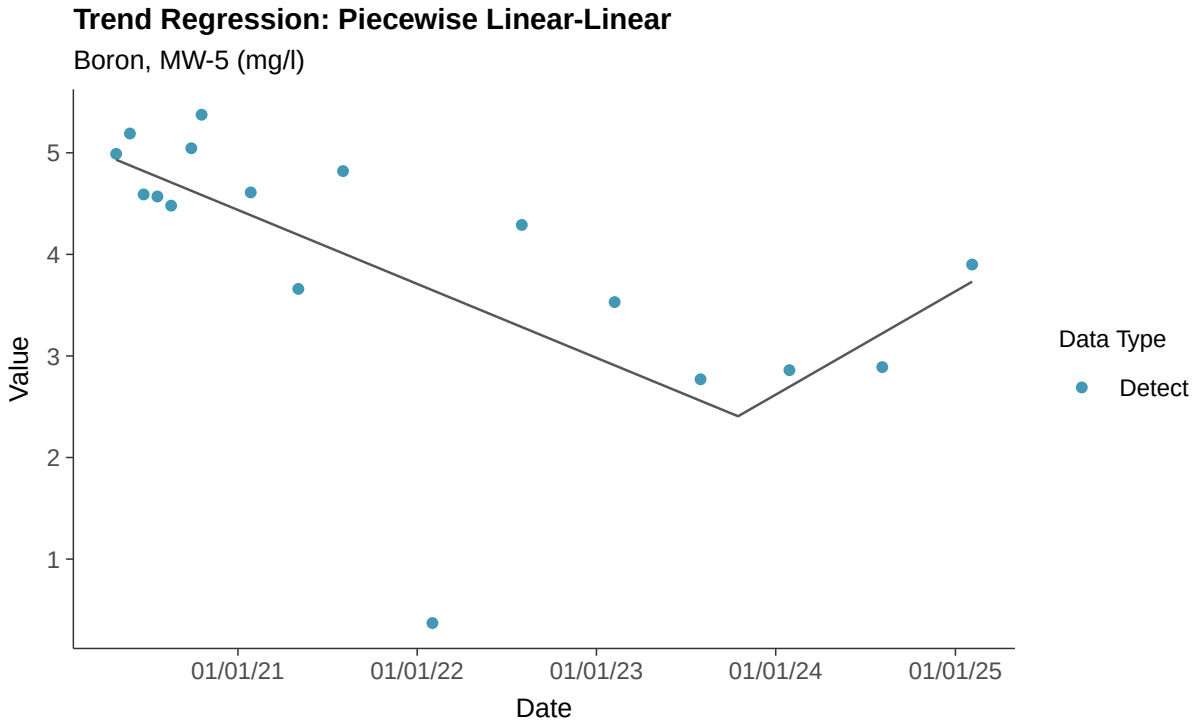
Appendix III: Boron, MW-5

ID: 13_2_105





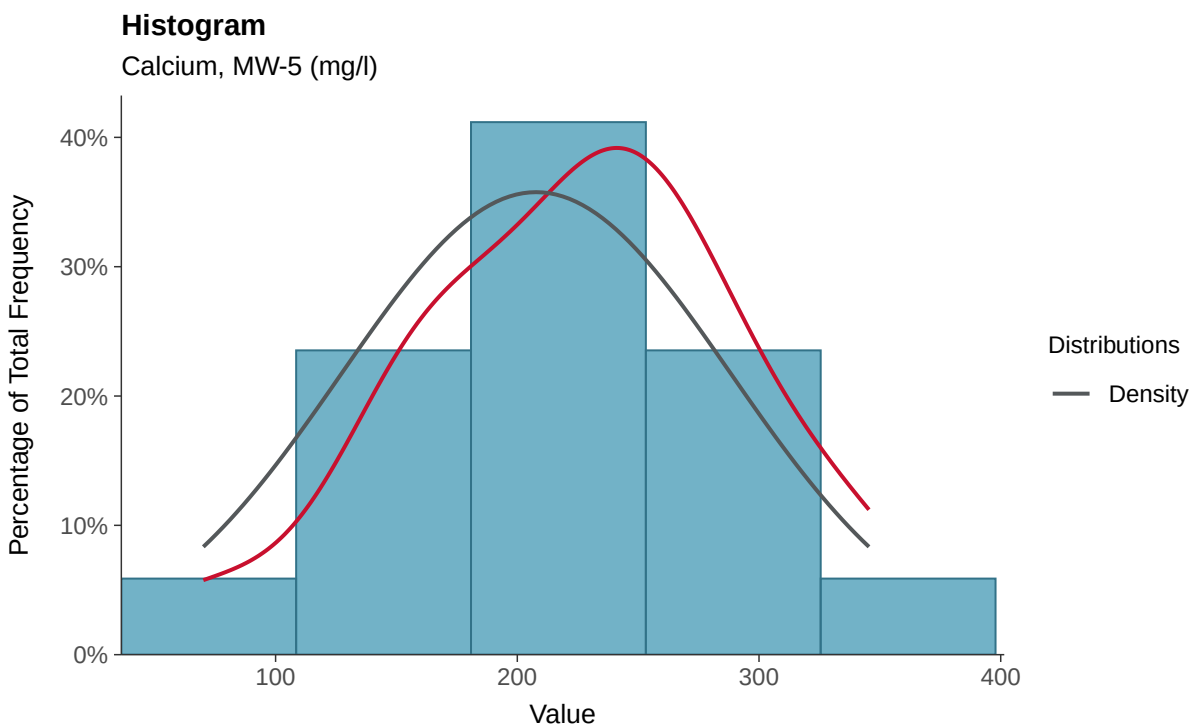
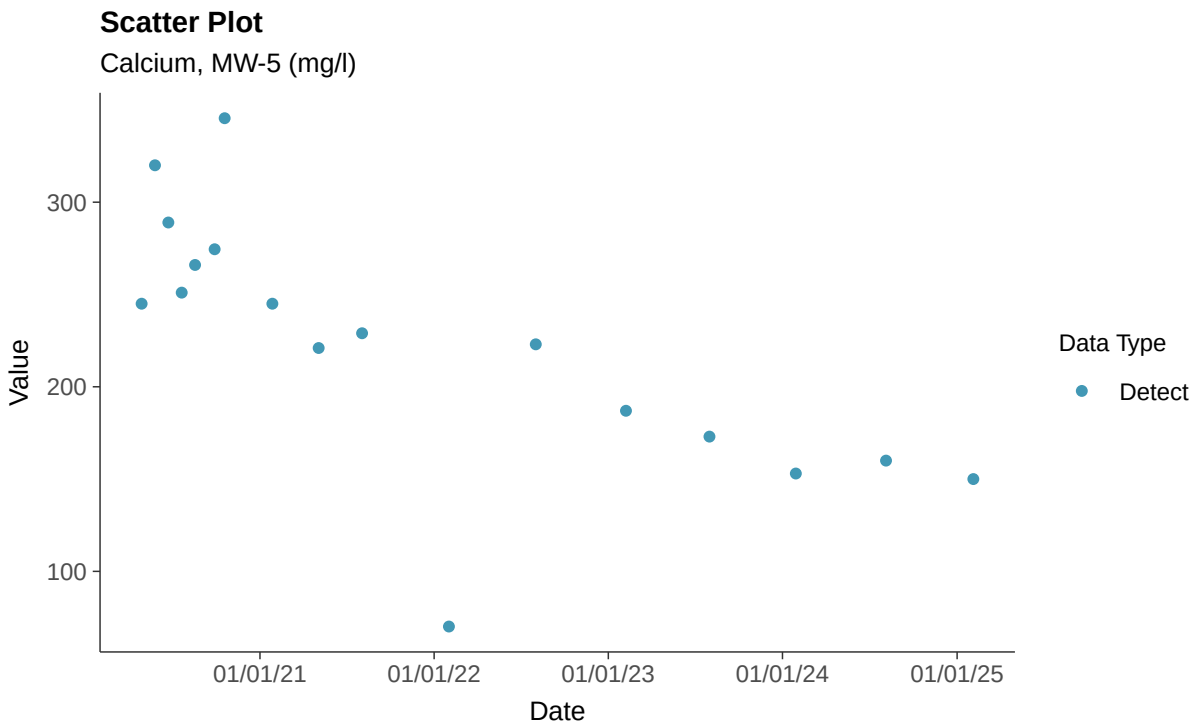


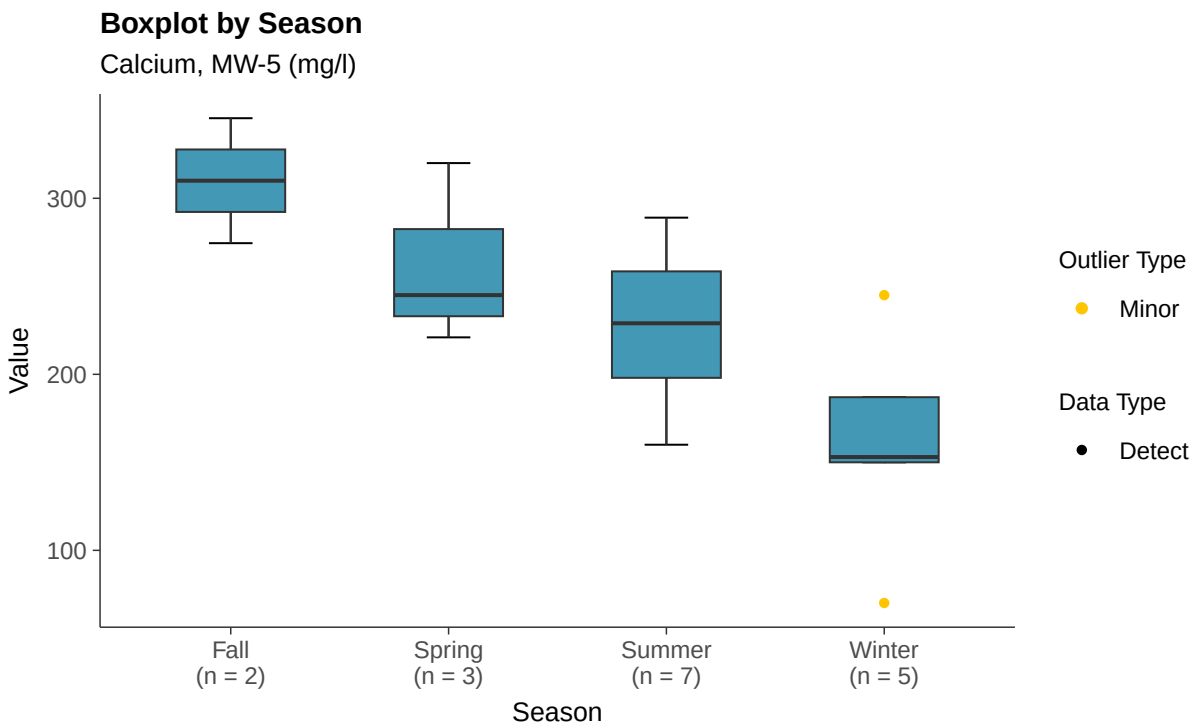
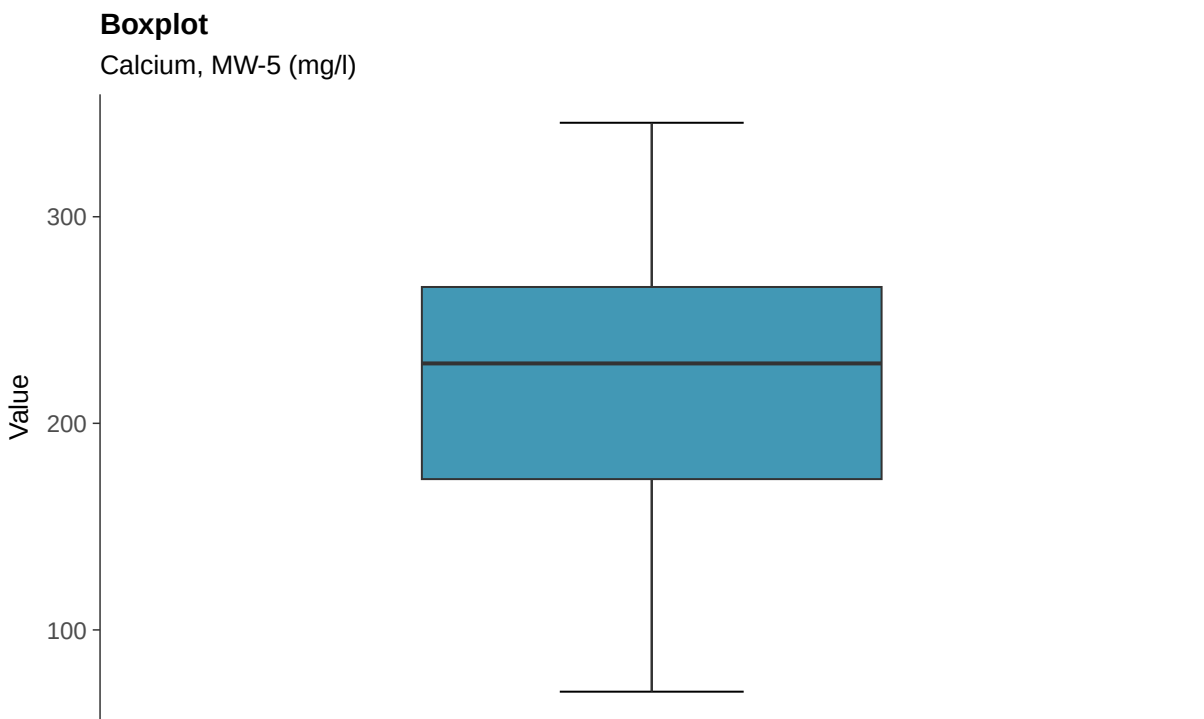


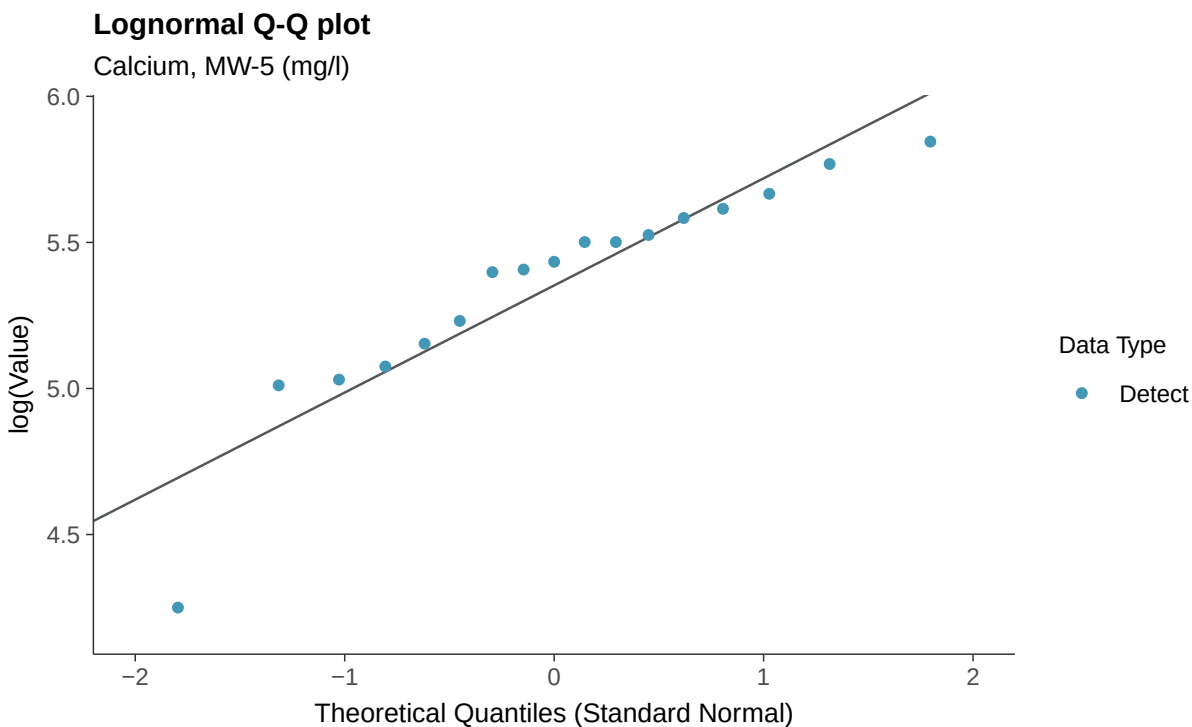
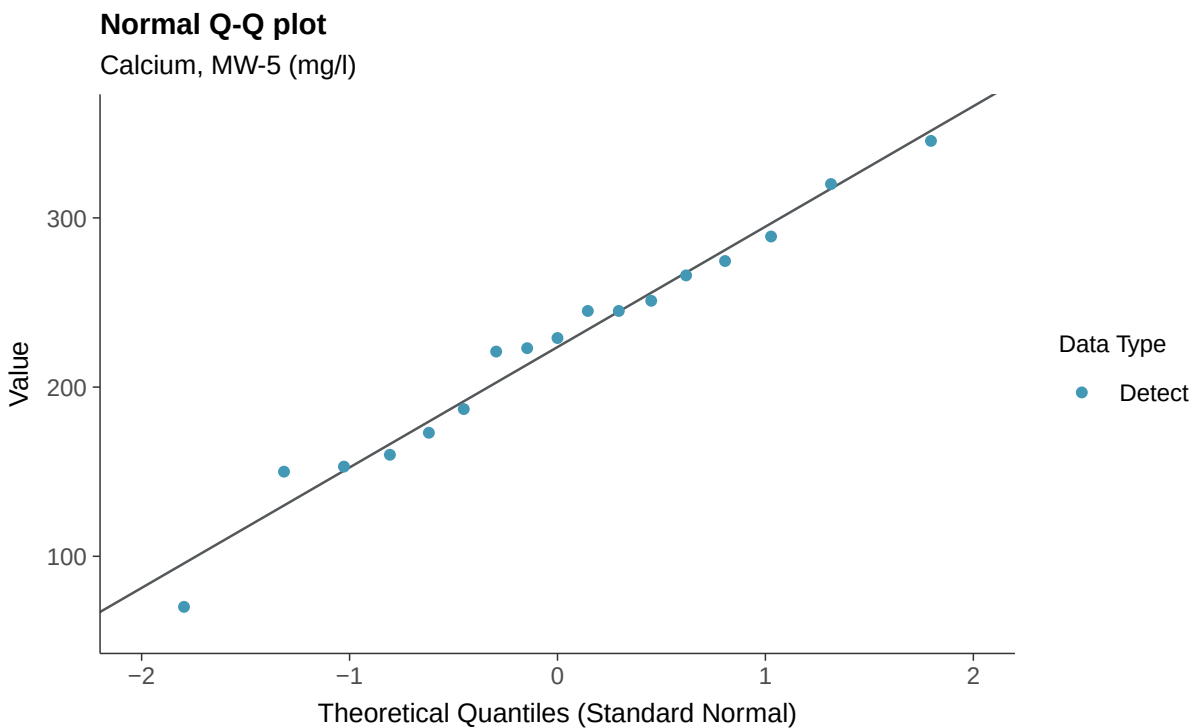


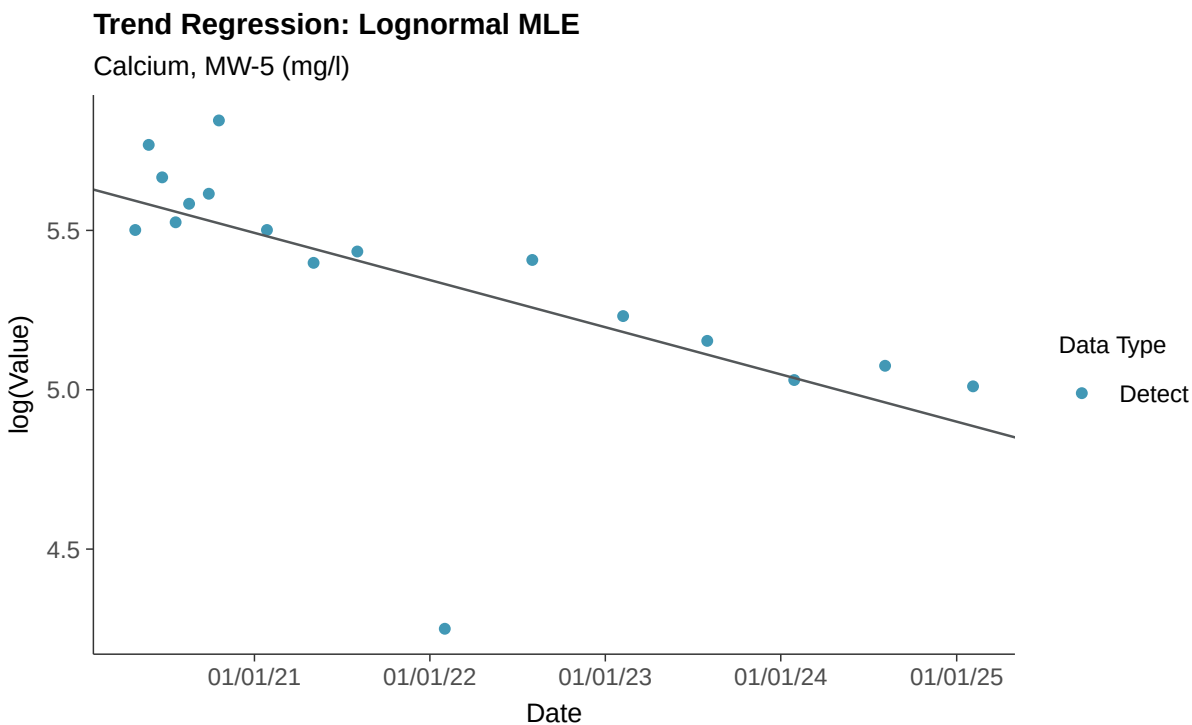
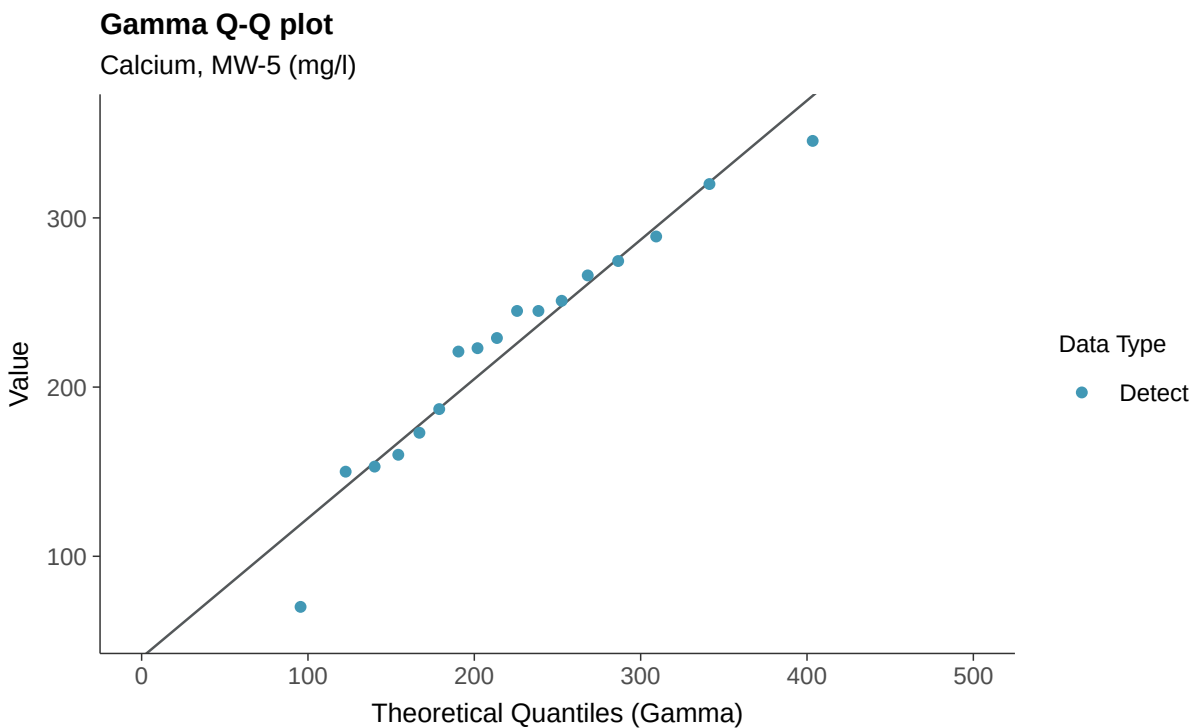
Appendix III: Calcium, MW-5

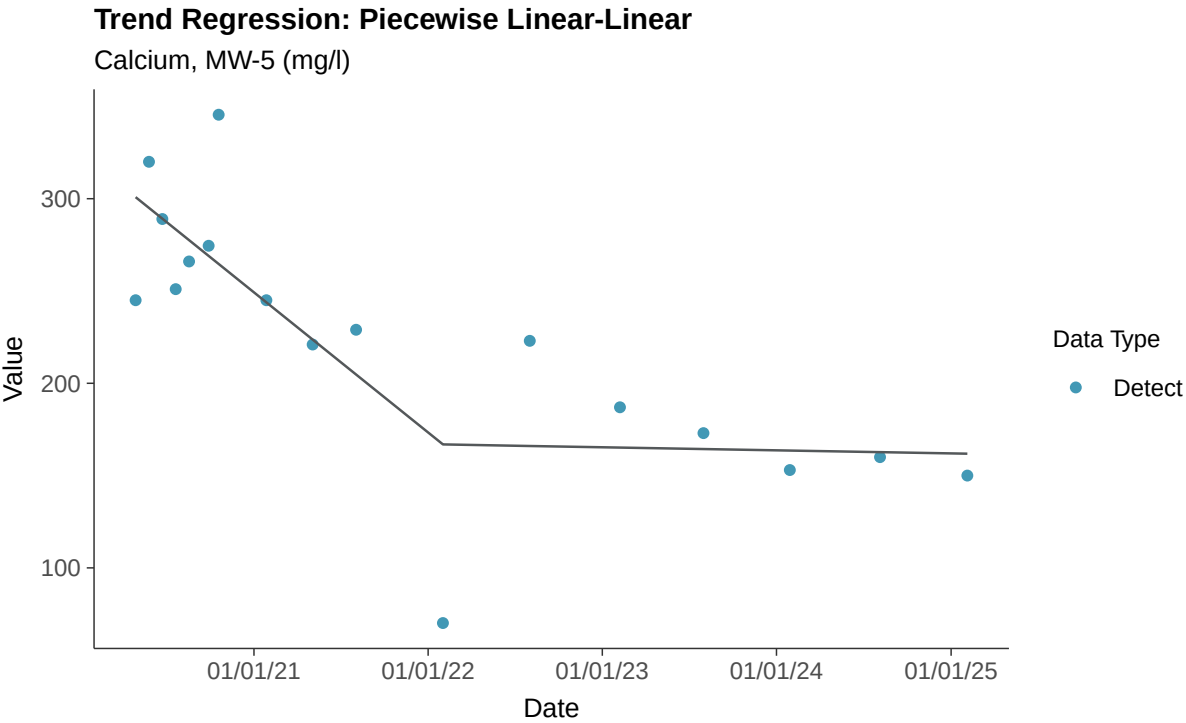
ID: 13_2_107







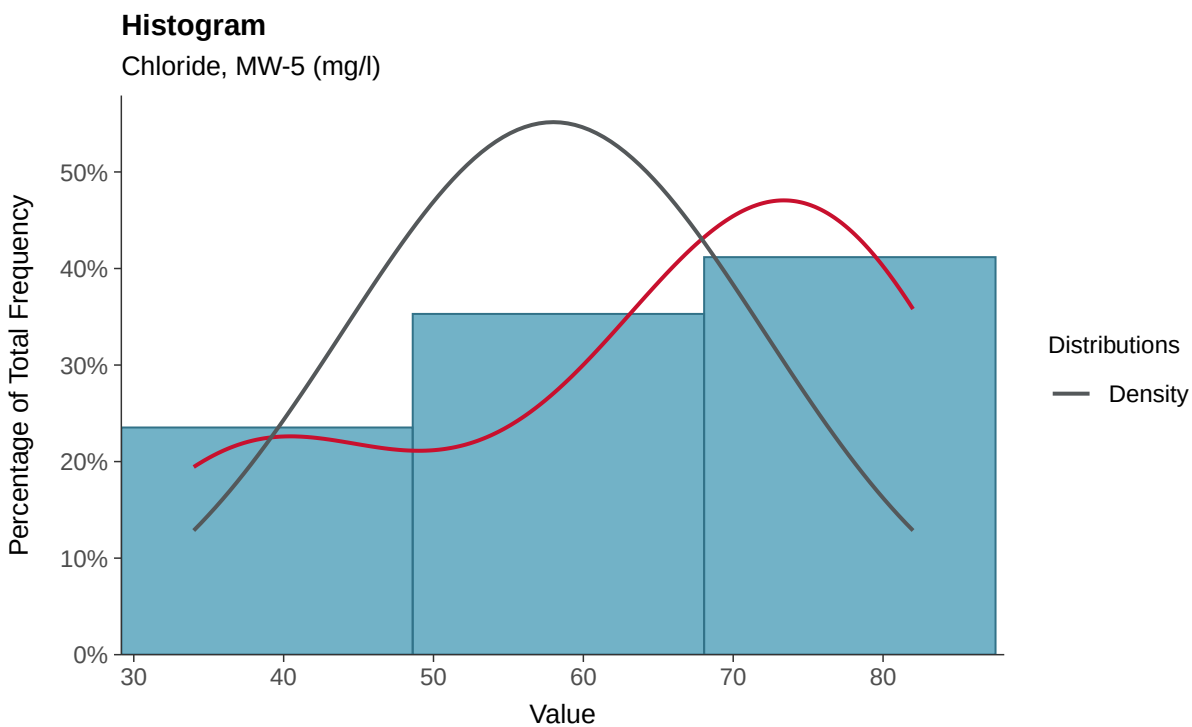
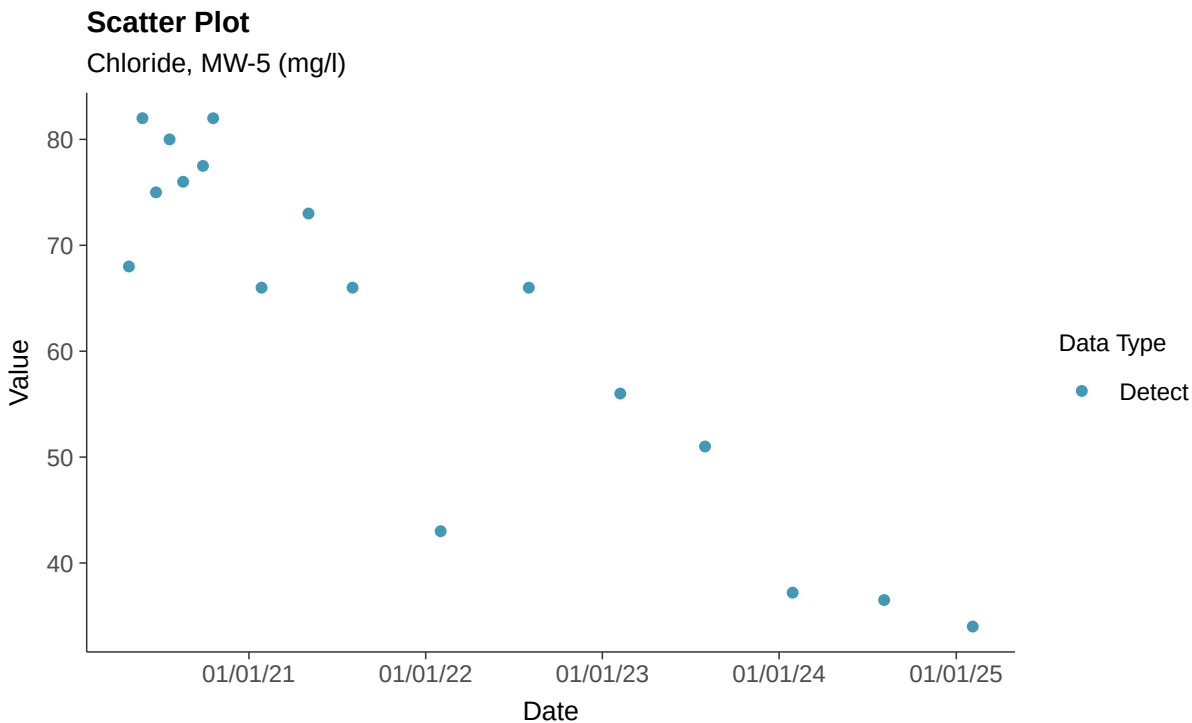


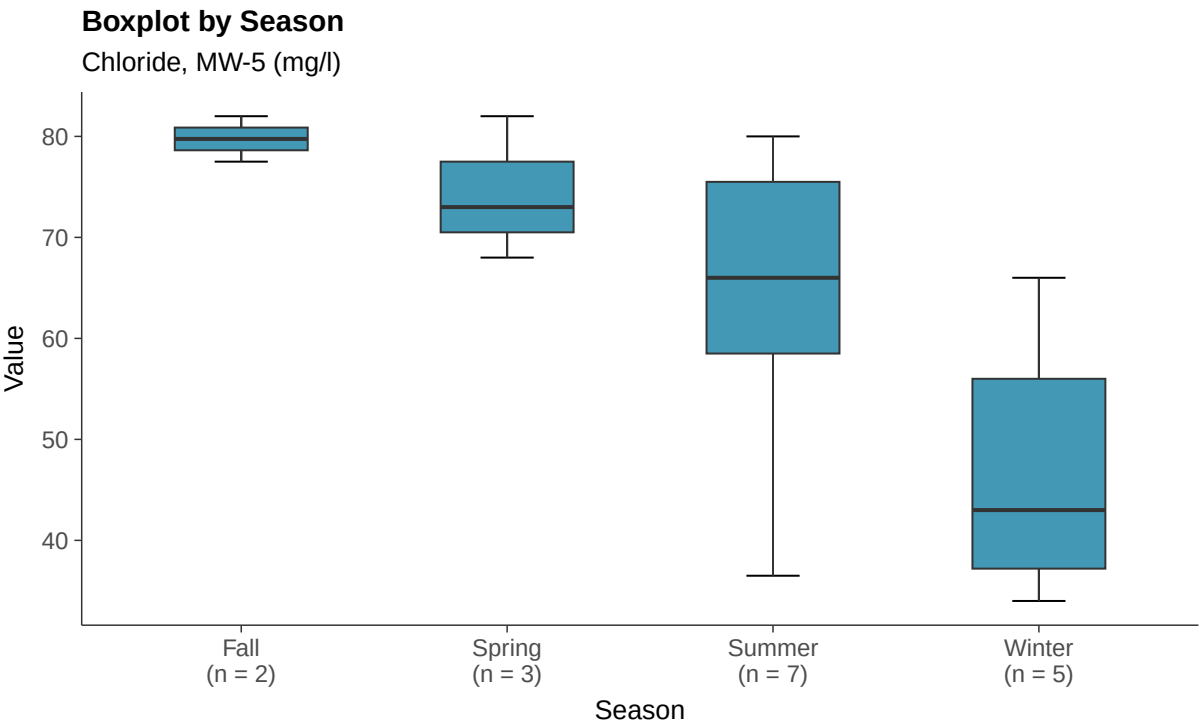
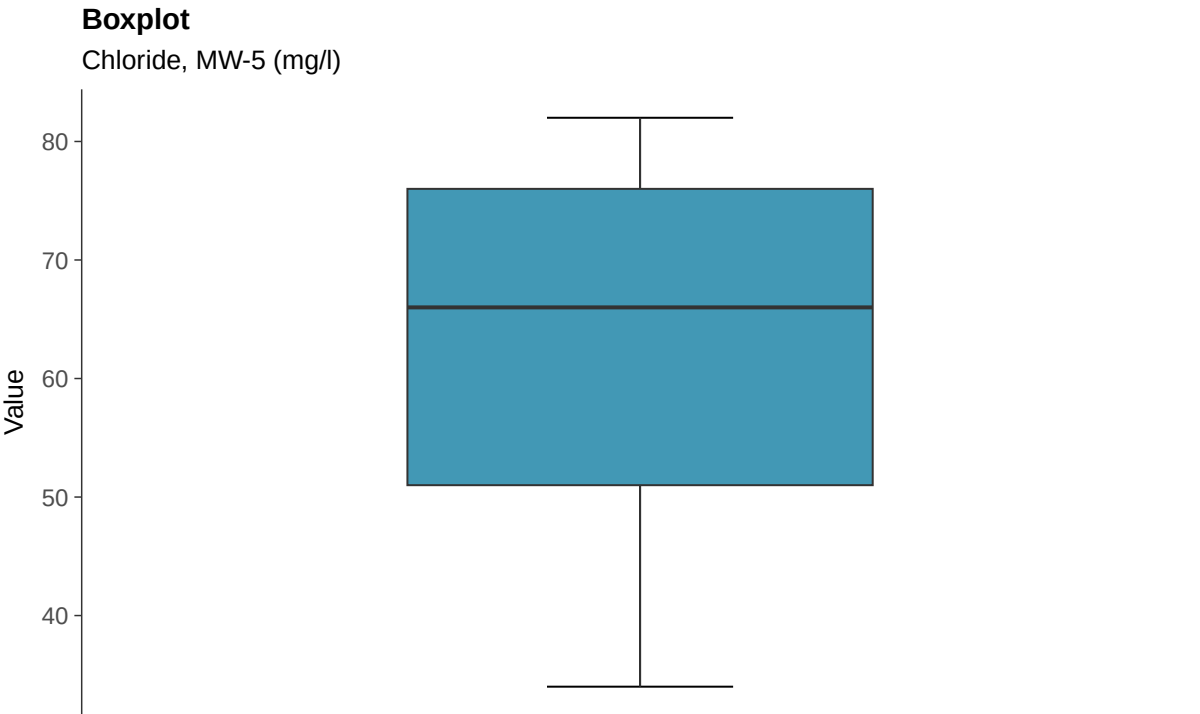


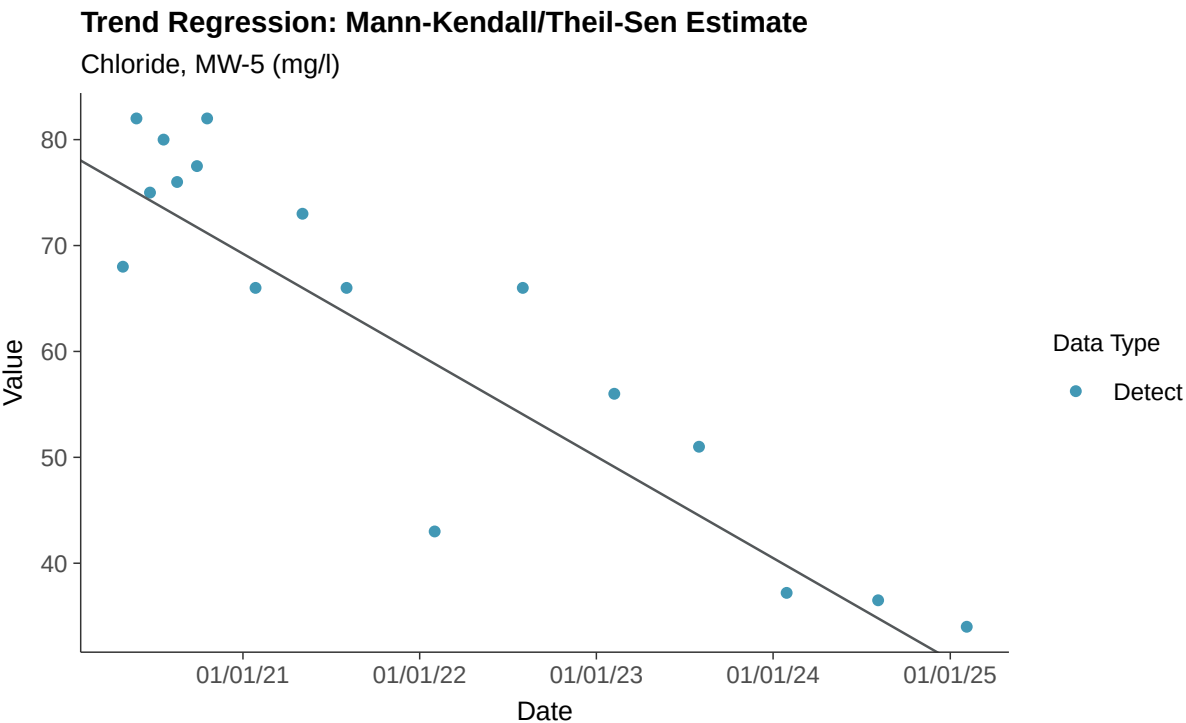
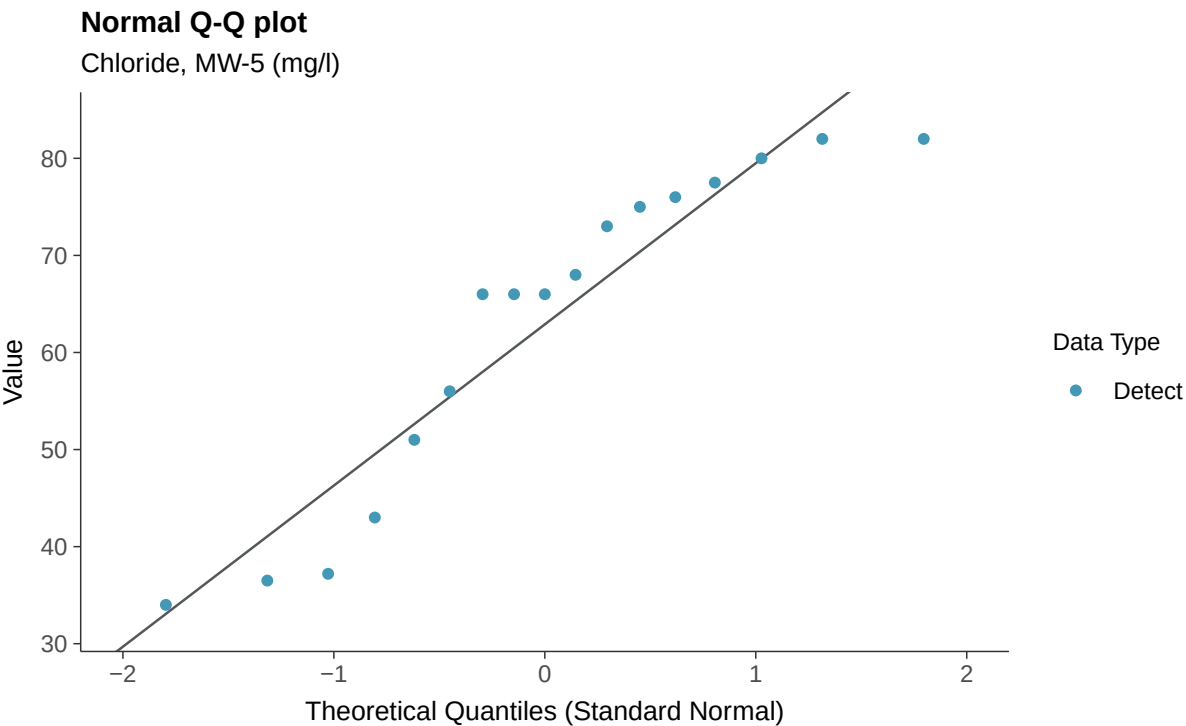


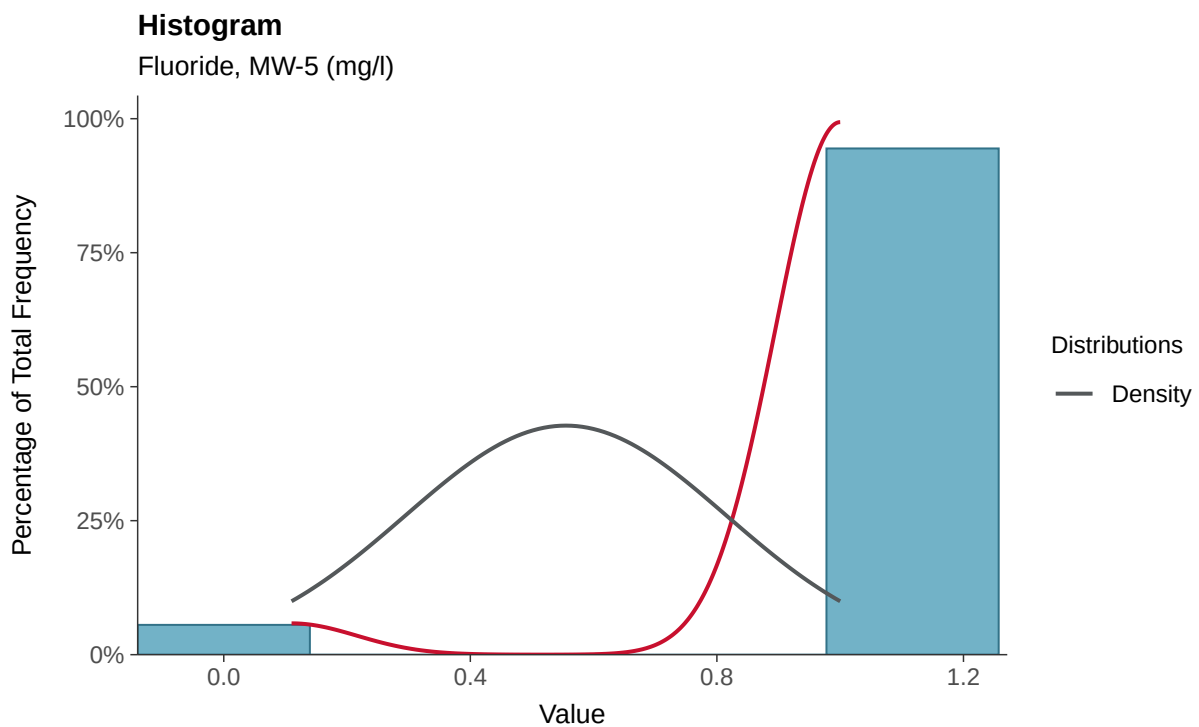
Appendix III: Chloride, MW-5

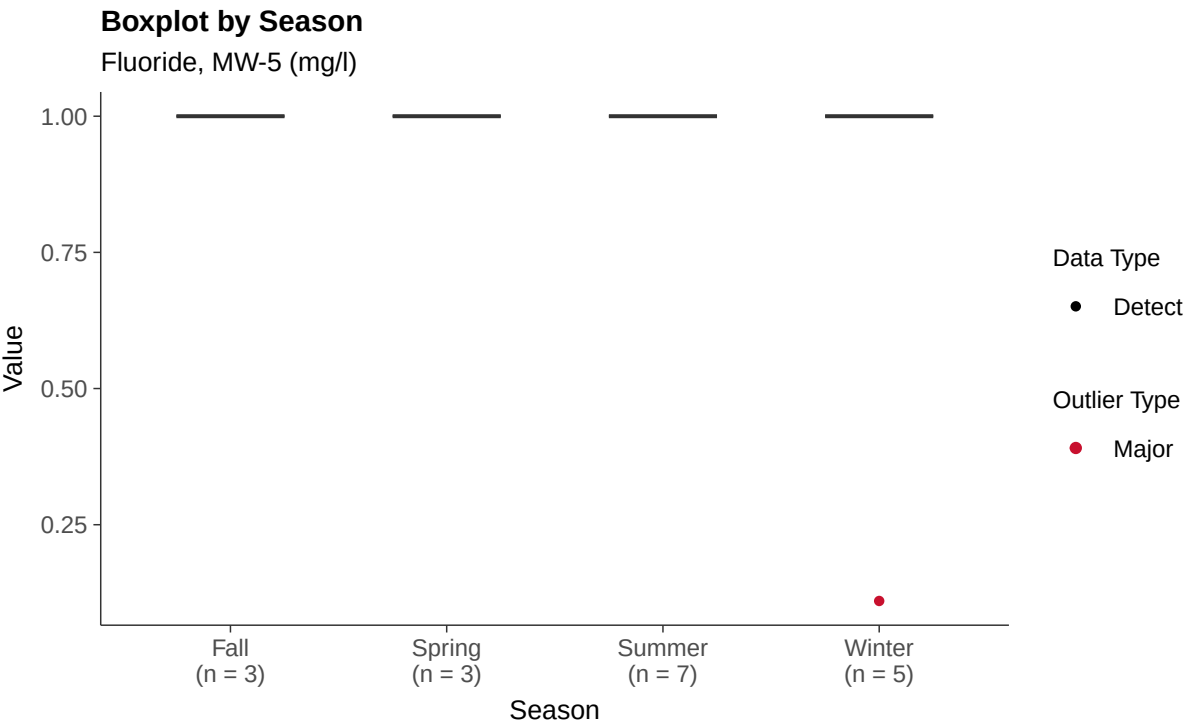
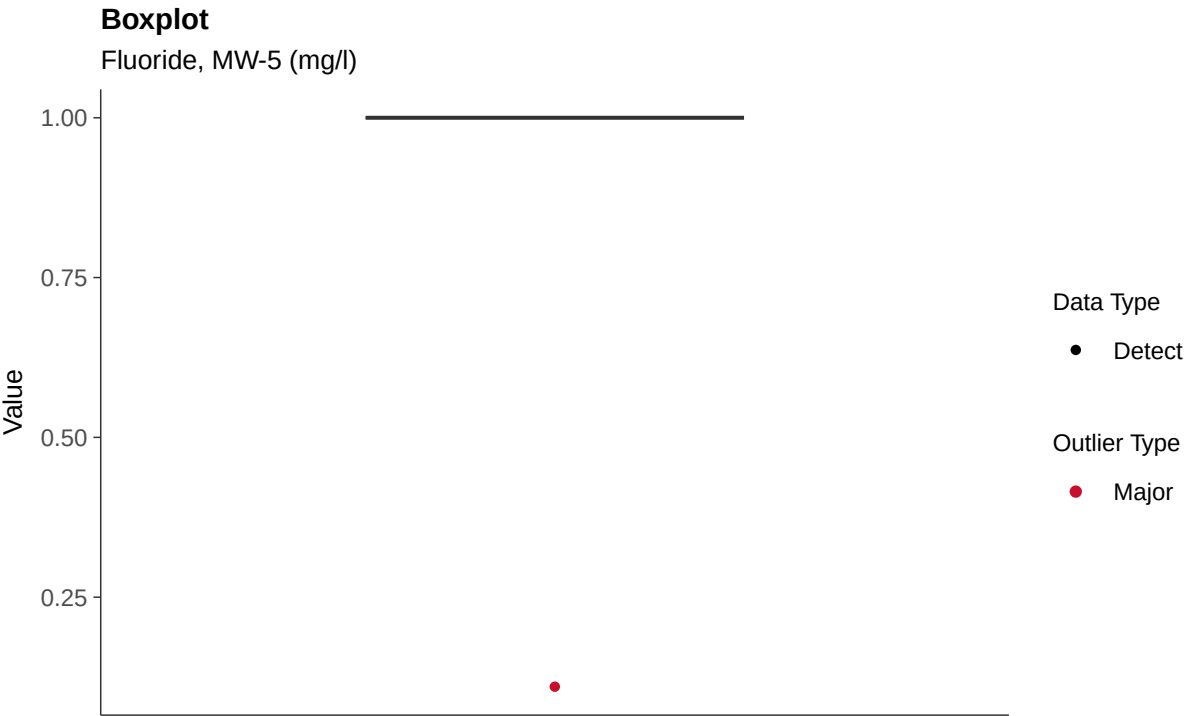
ID: 13_2_108







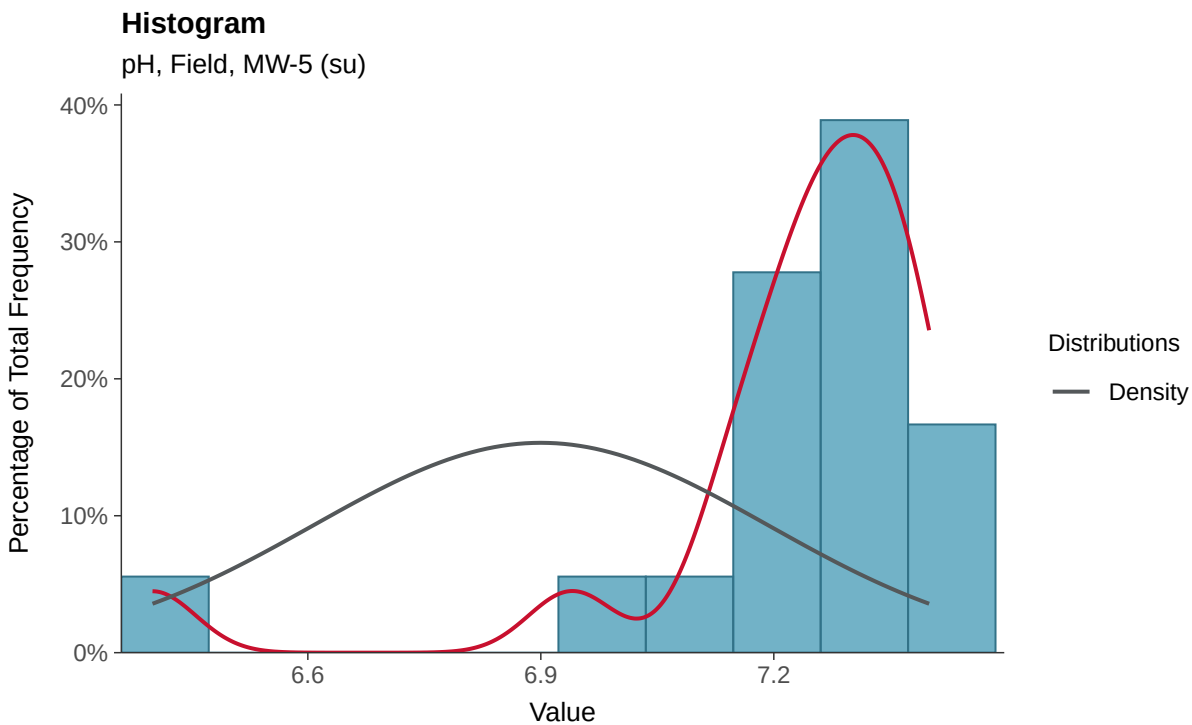
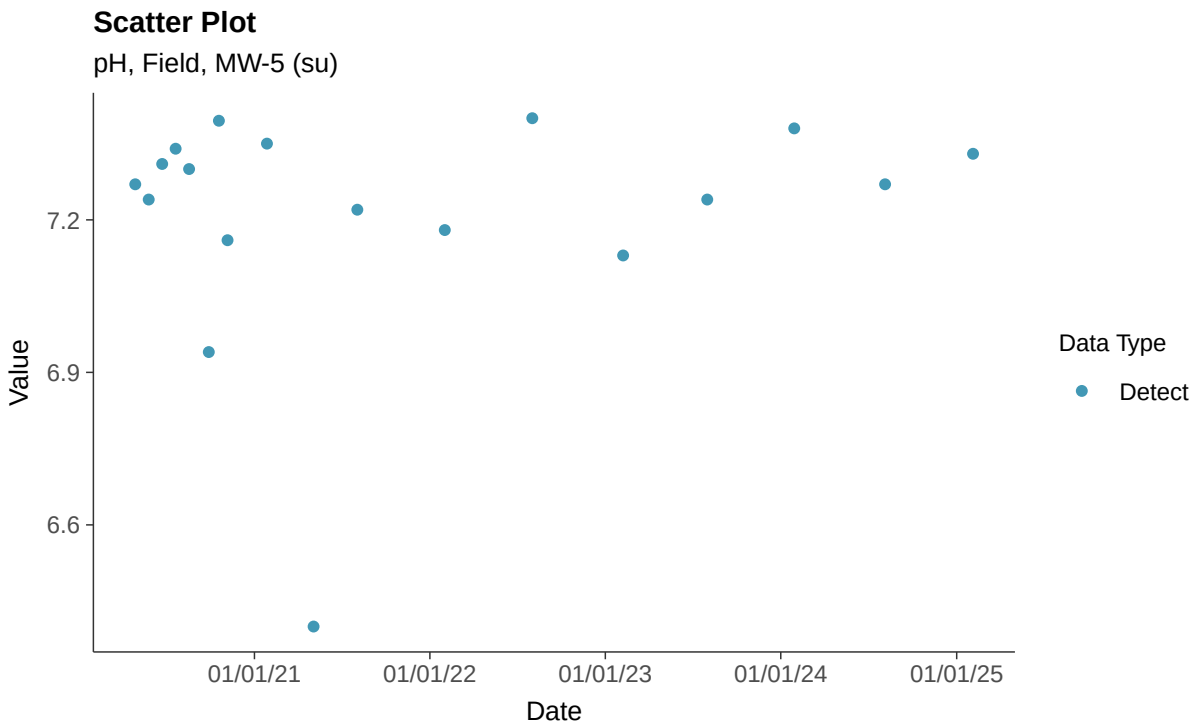






Appendix III: pH, Field, MW-5

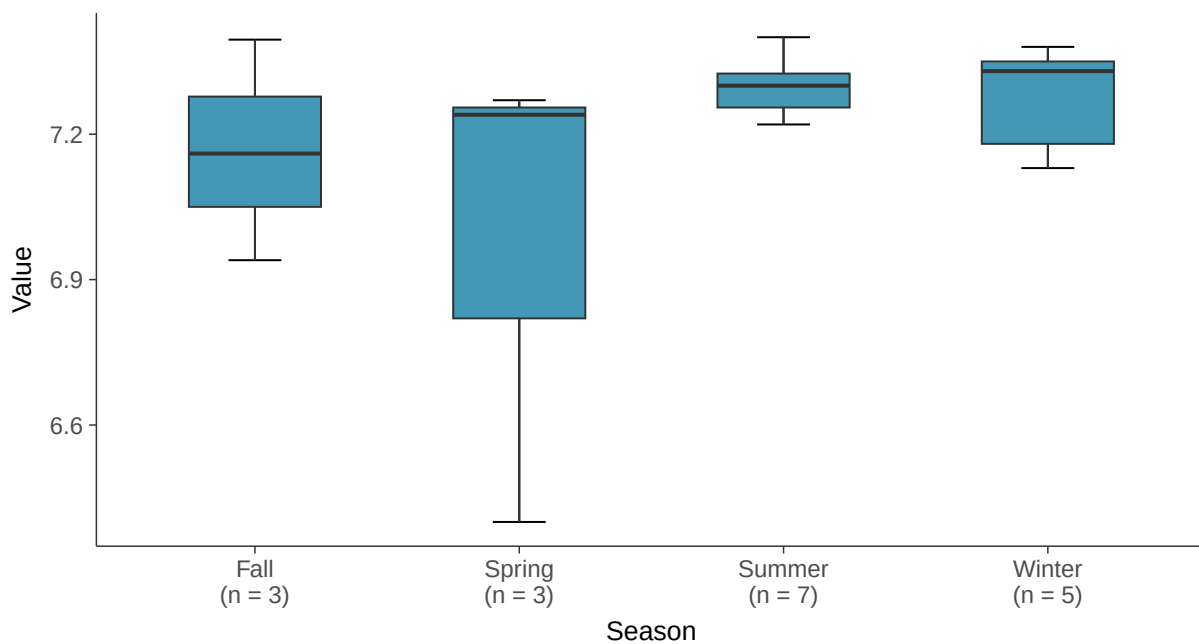
ID: 13_2_120

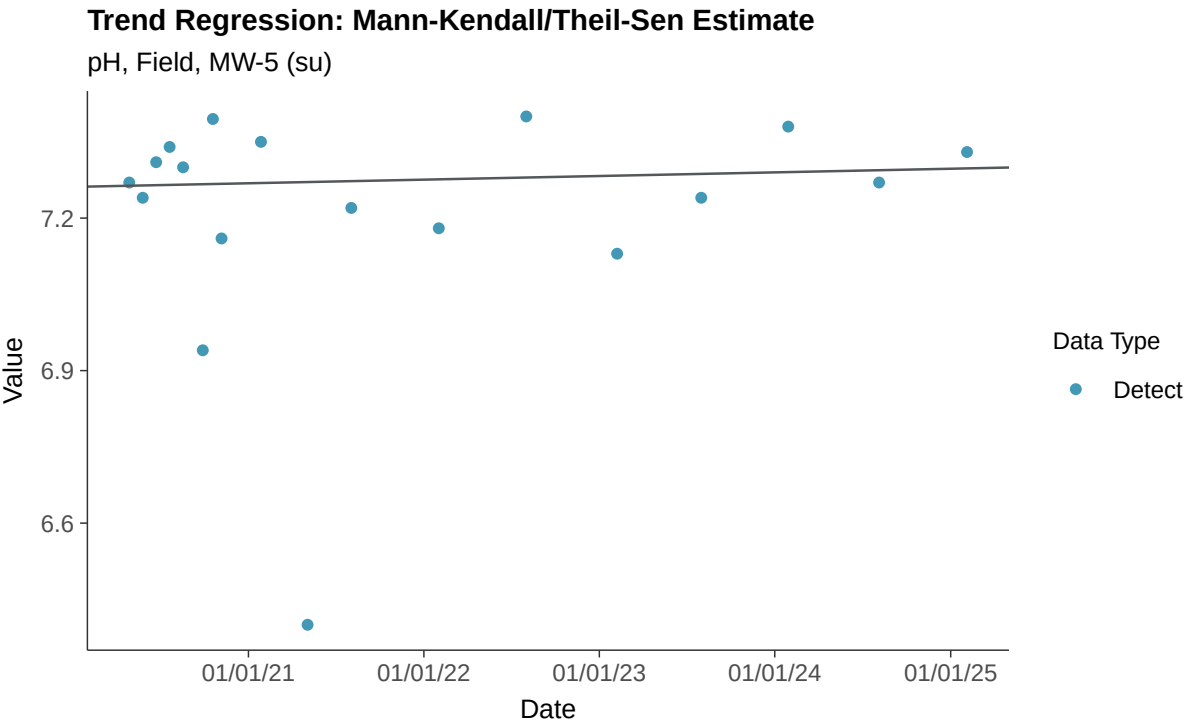
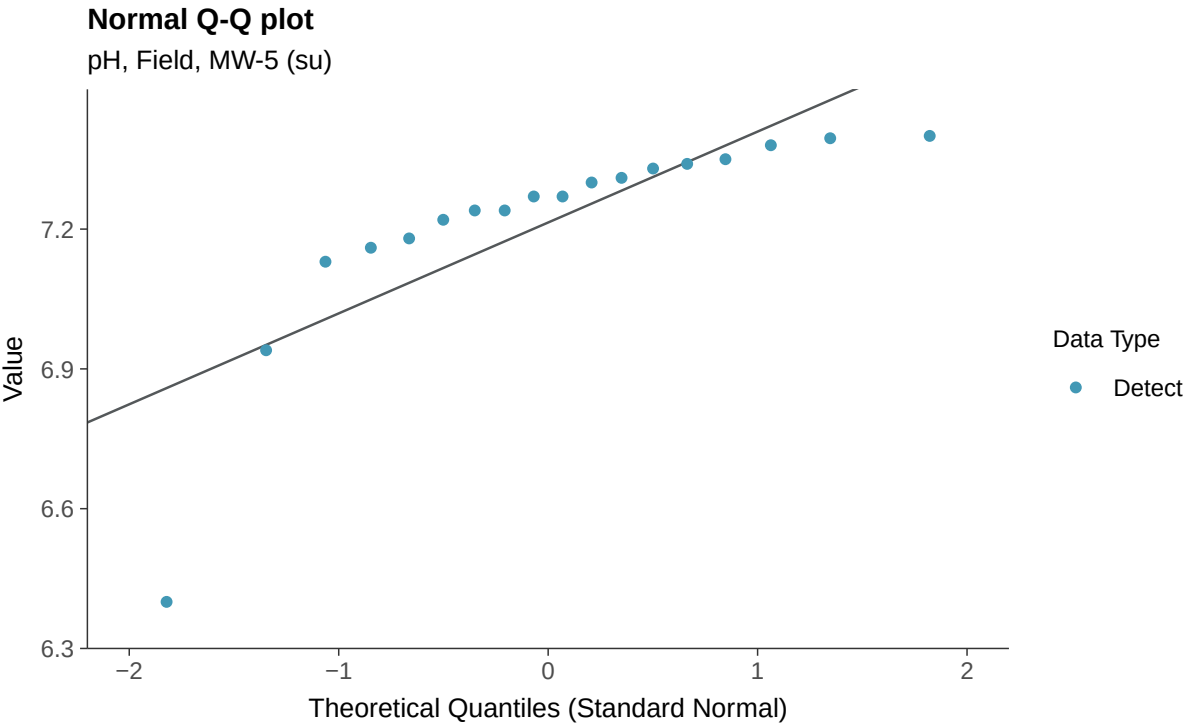


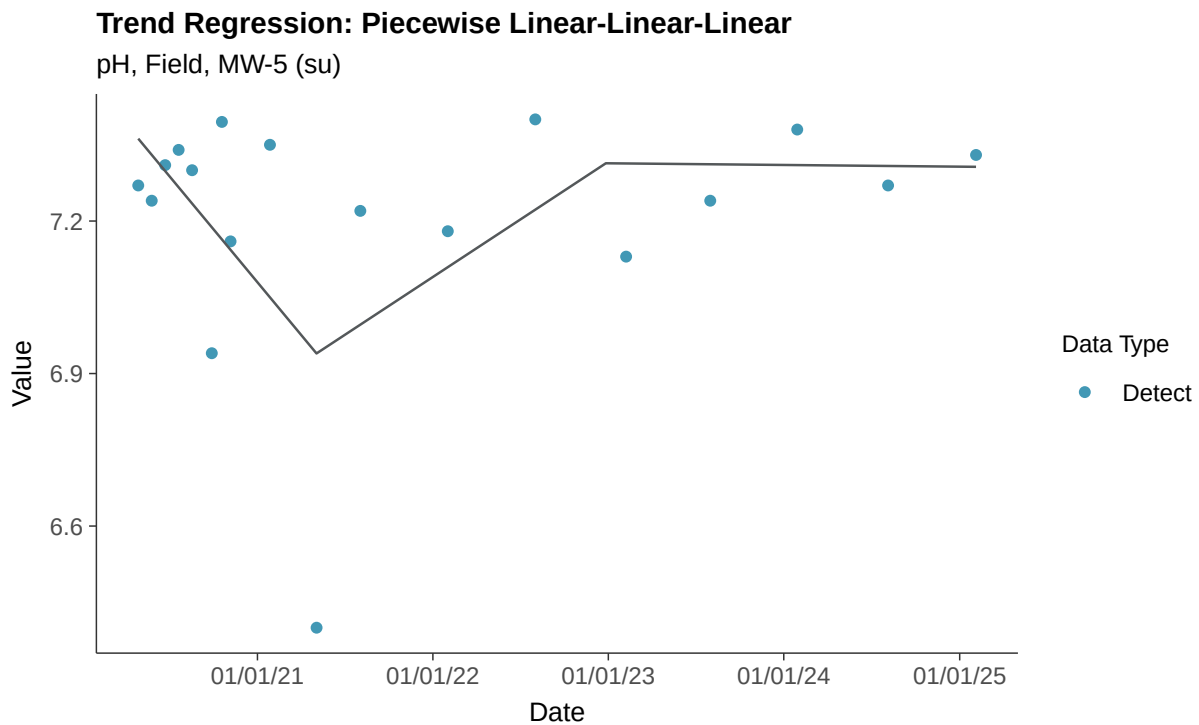
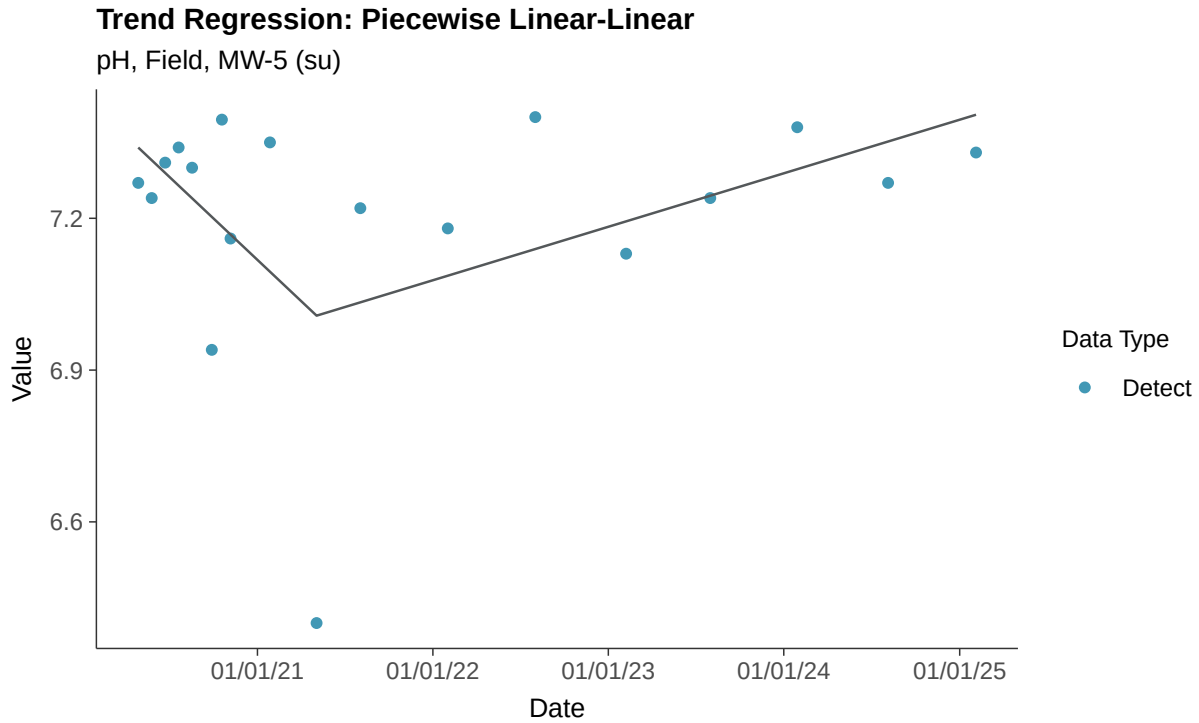
pH, Field, MW-5 (su)



pH, Field, MW-5 (su)



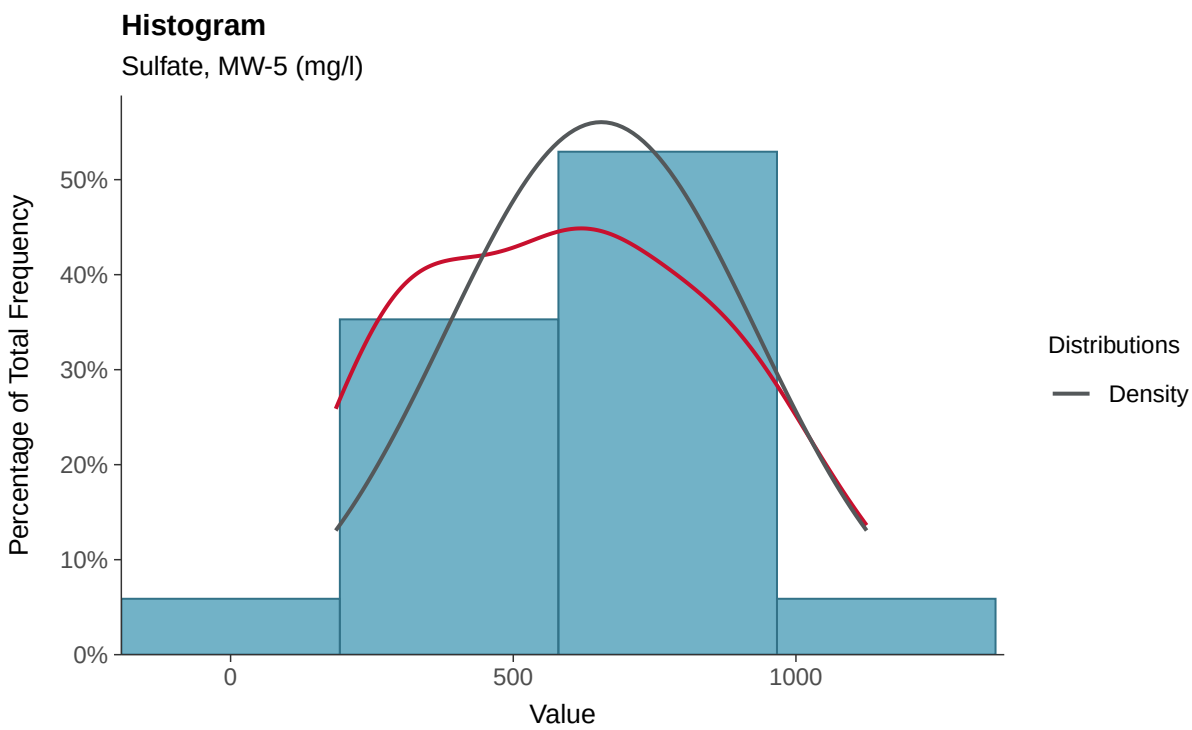
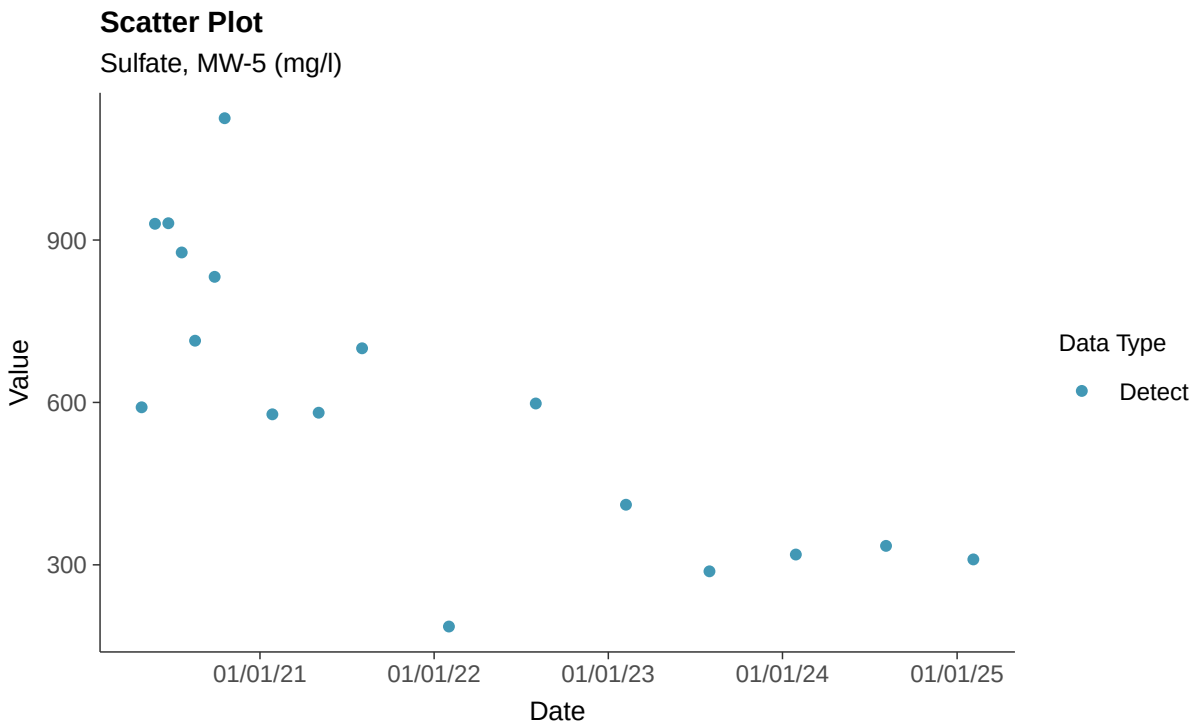


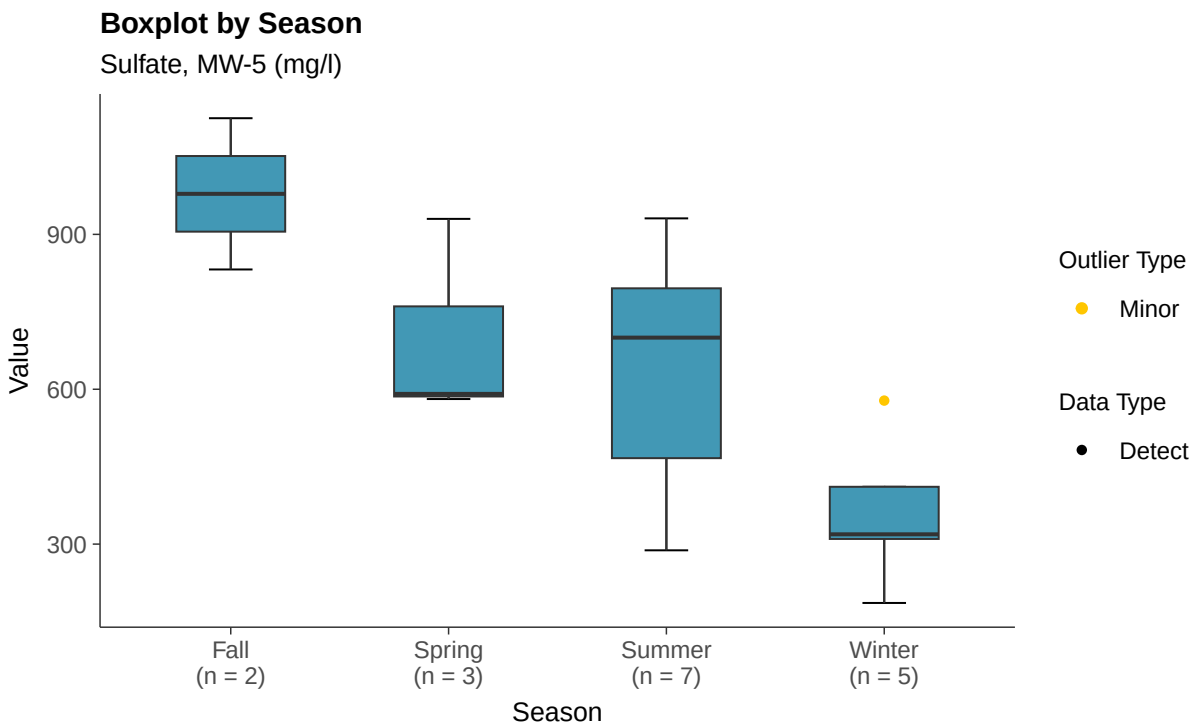
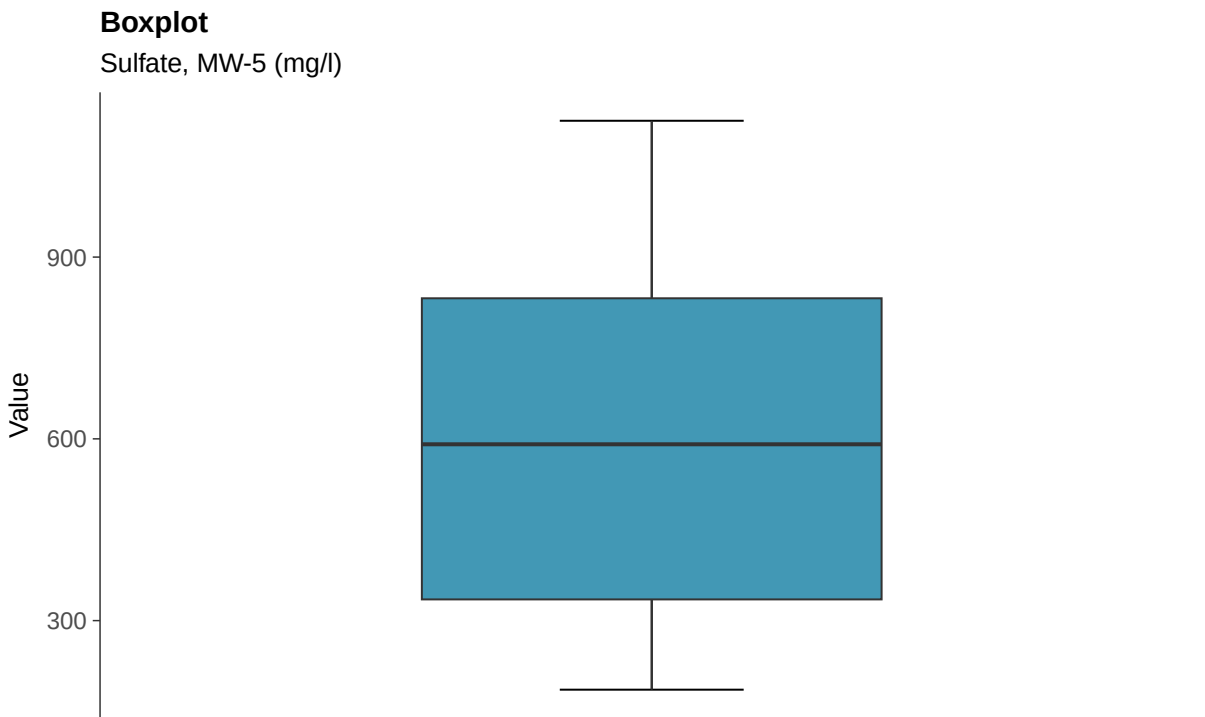


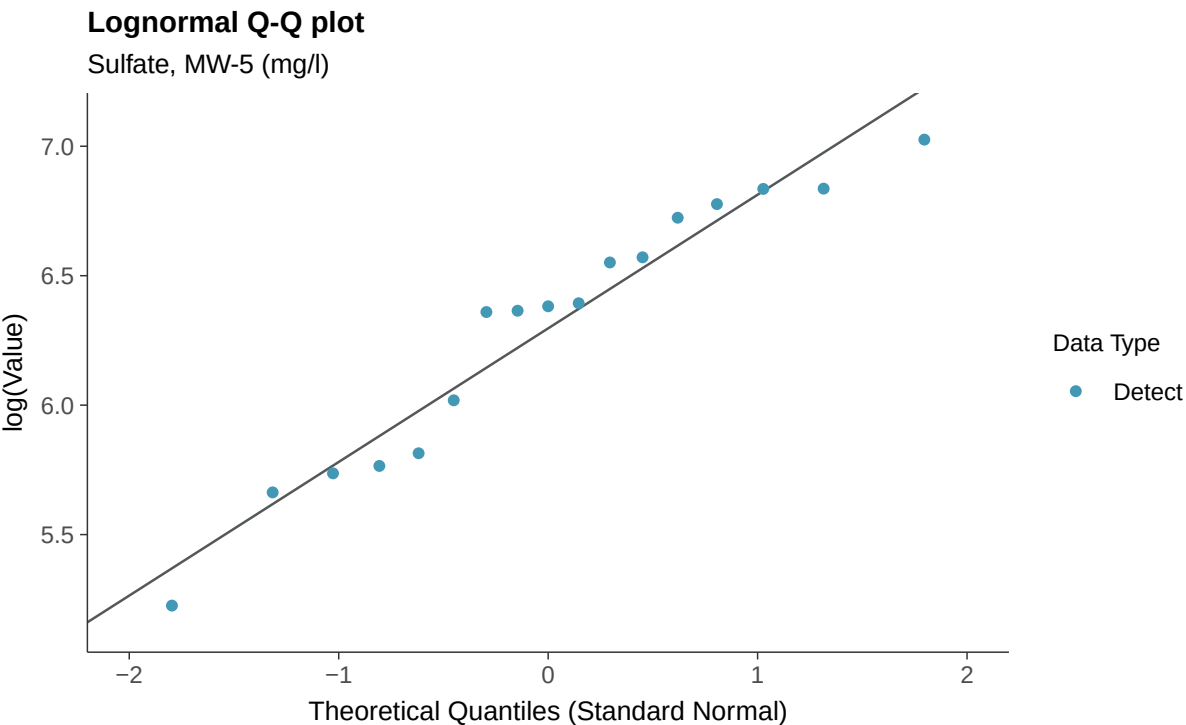
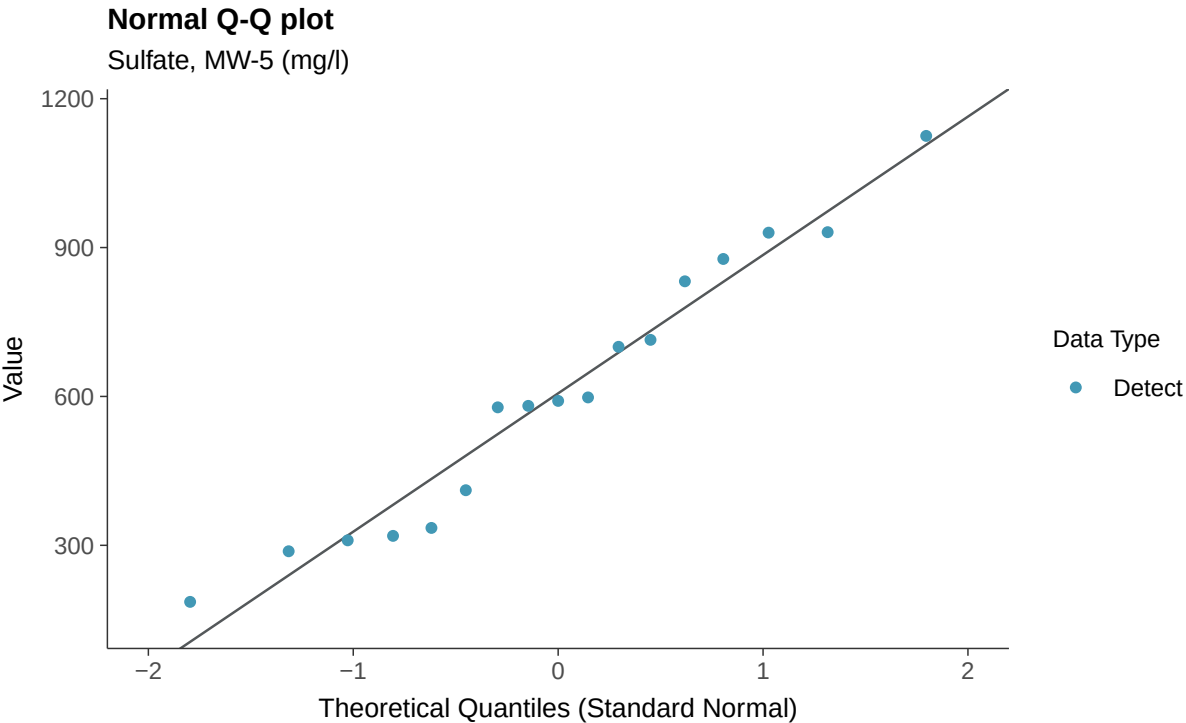


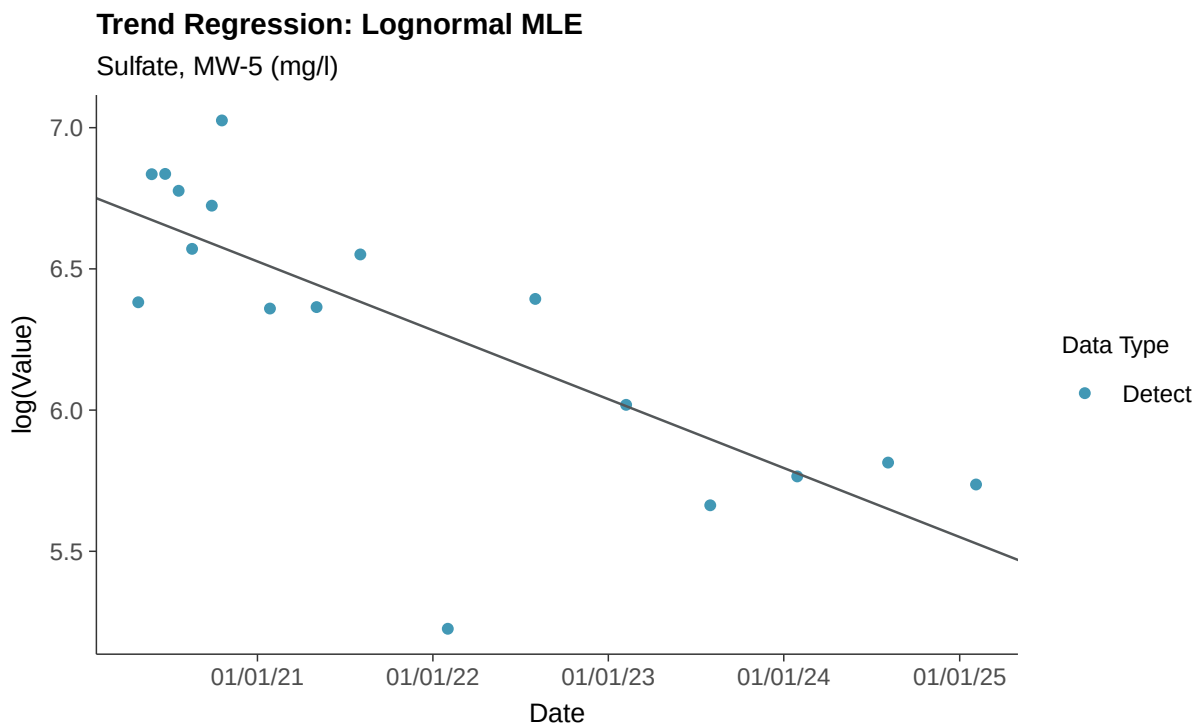
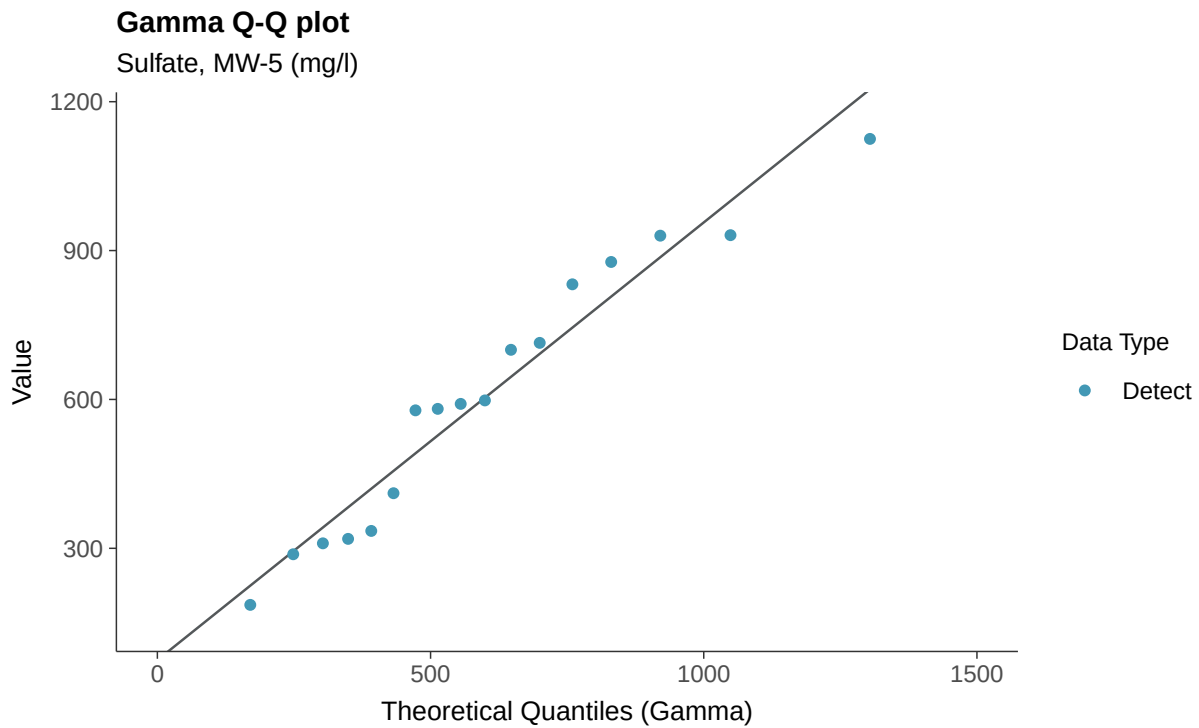
Appendix III: Sulfate, MW-5

ID: 13_2_124





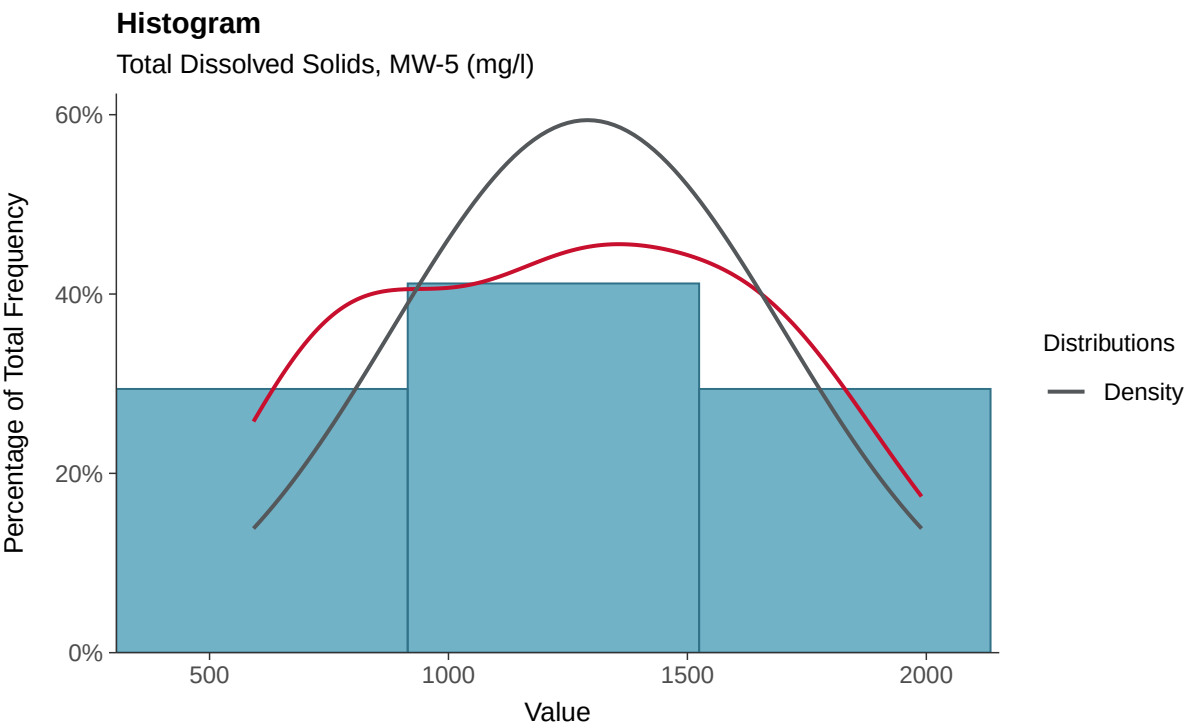
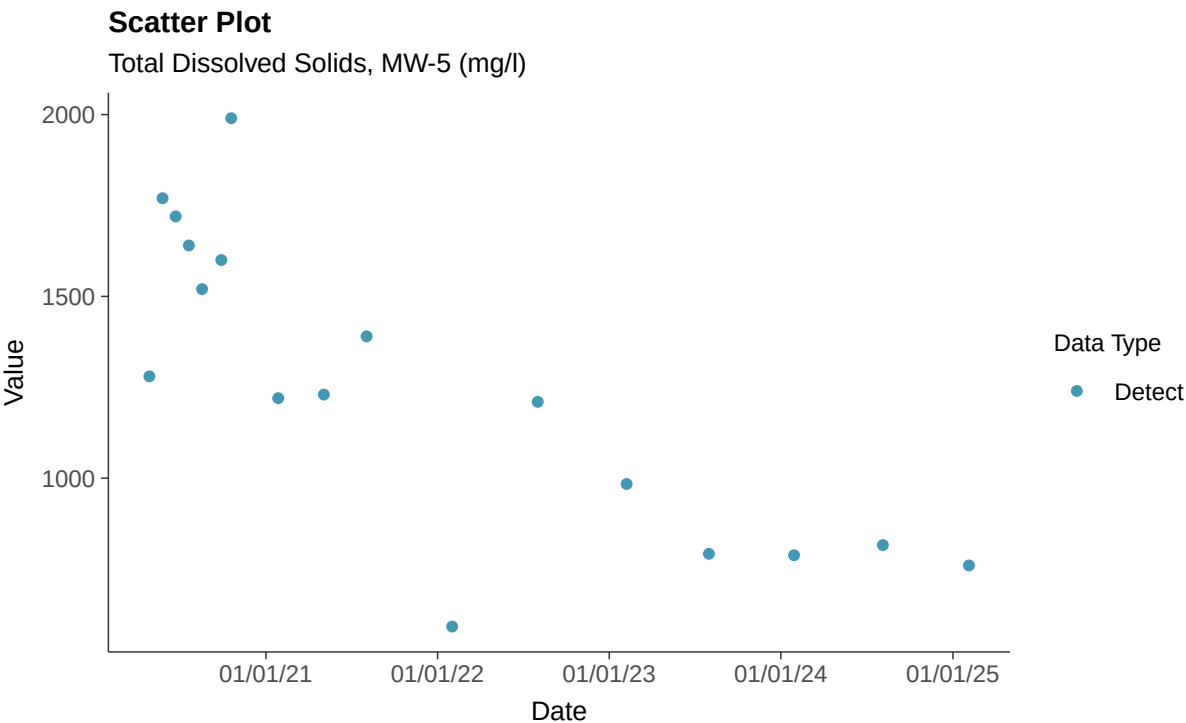






Appendix III: Total Dissolved Solids, MW-5

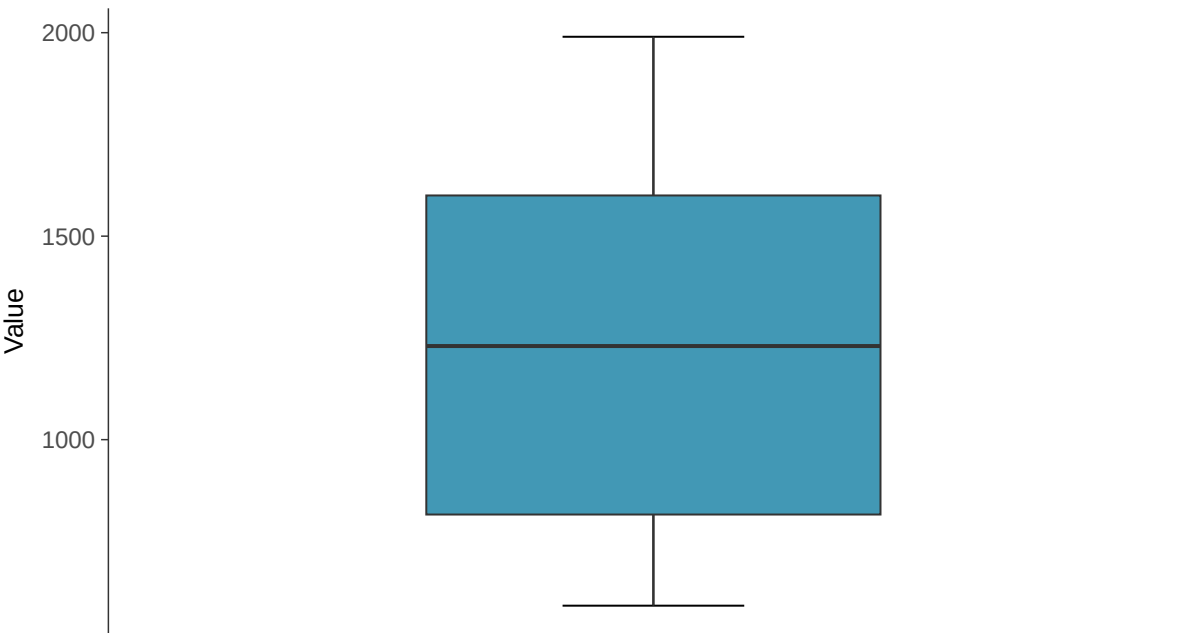
ID: 13_2_126





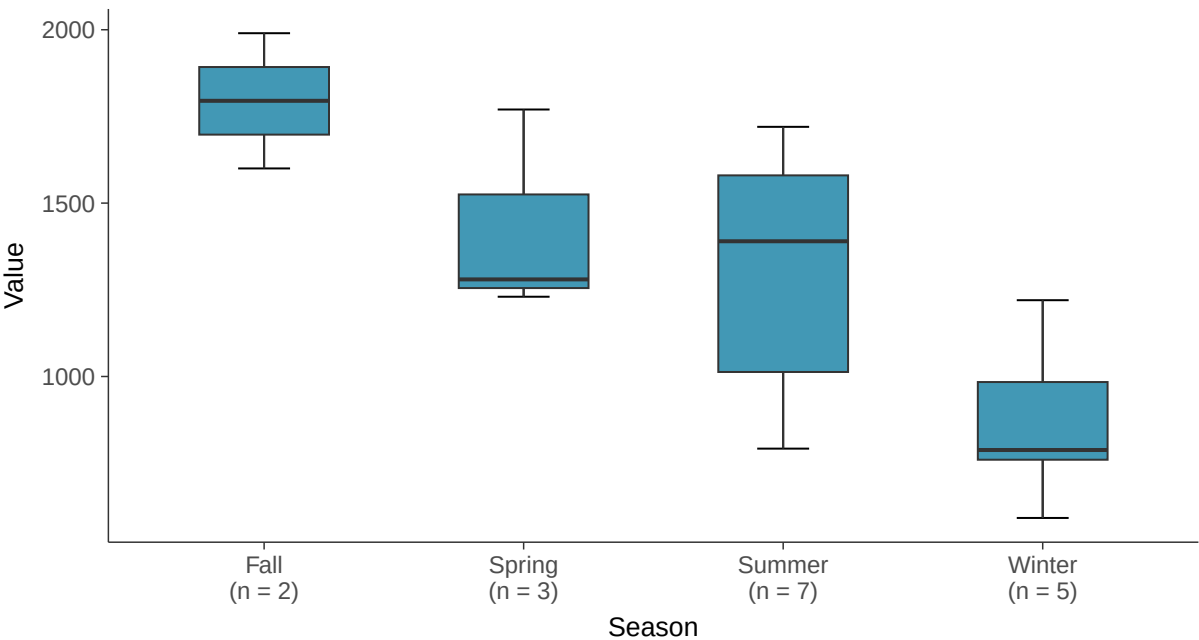
Boxplot

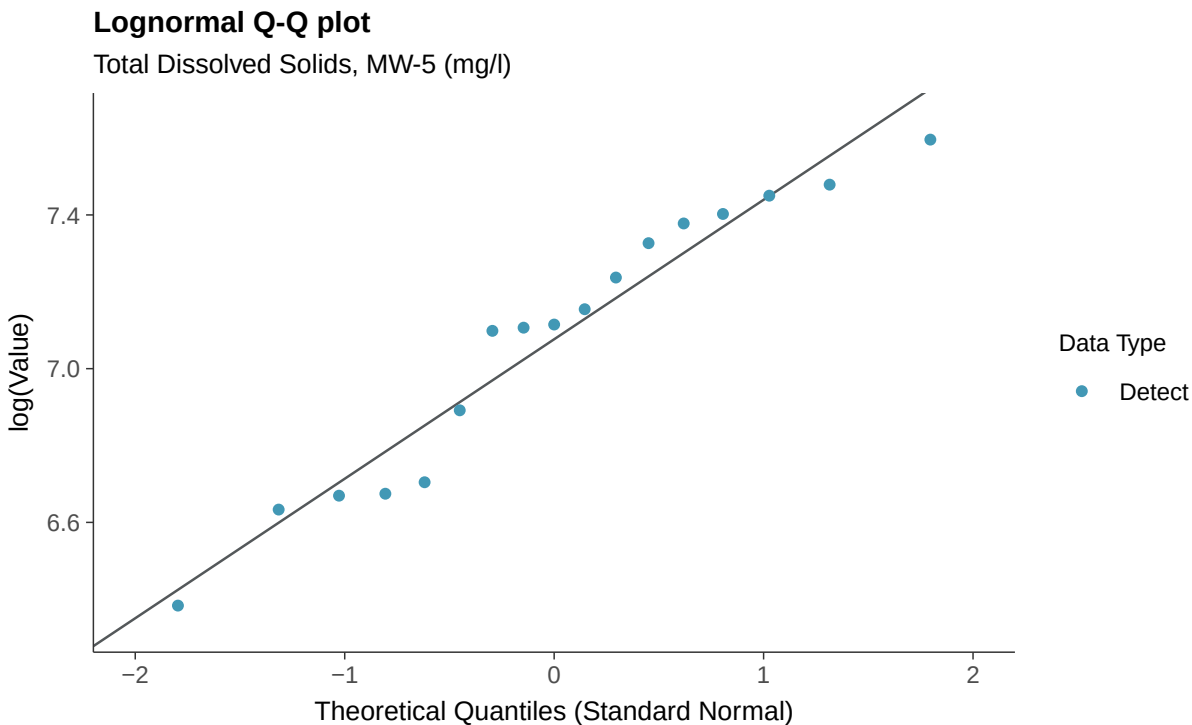
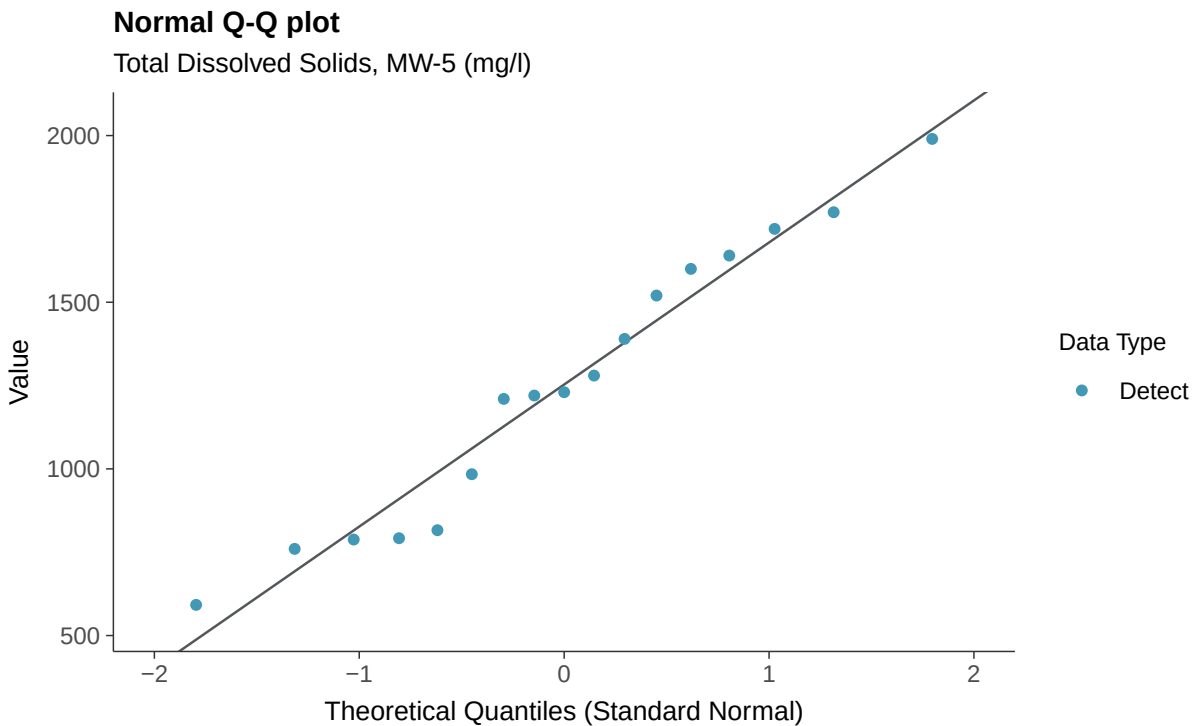
Total Dissolved Solids, MW-5 (mg/l)

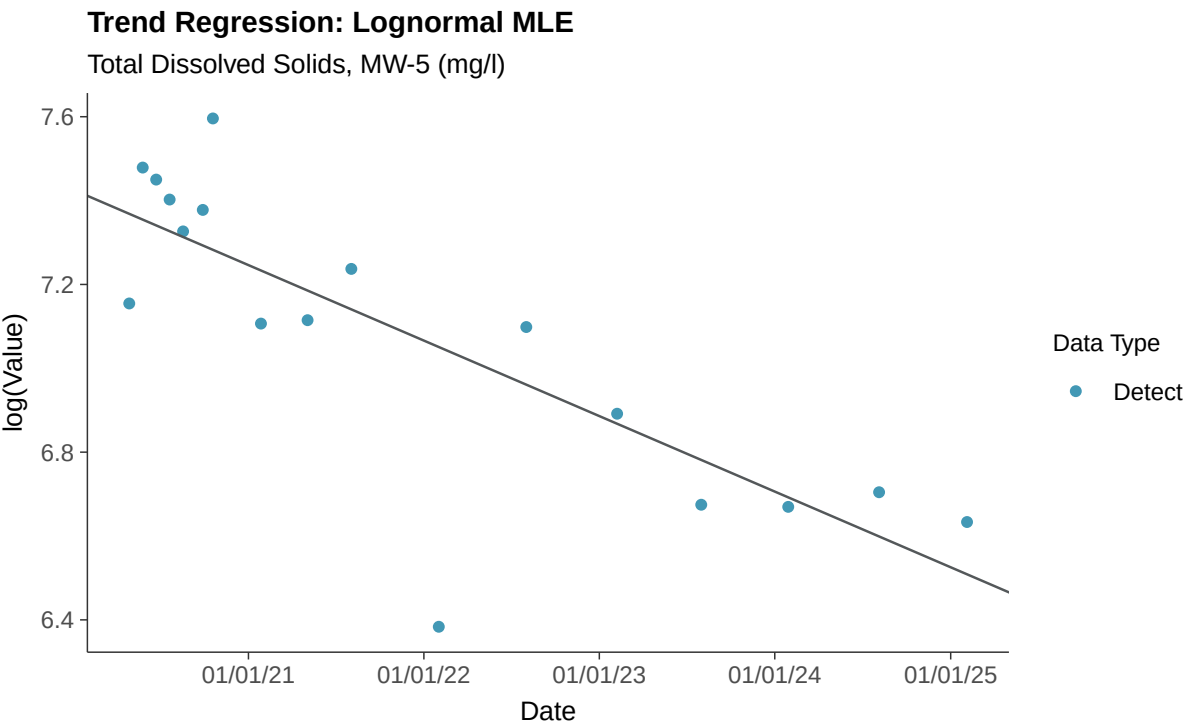
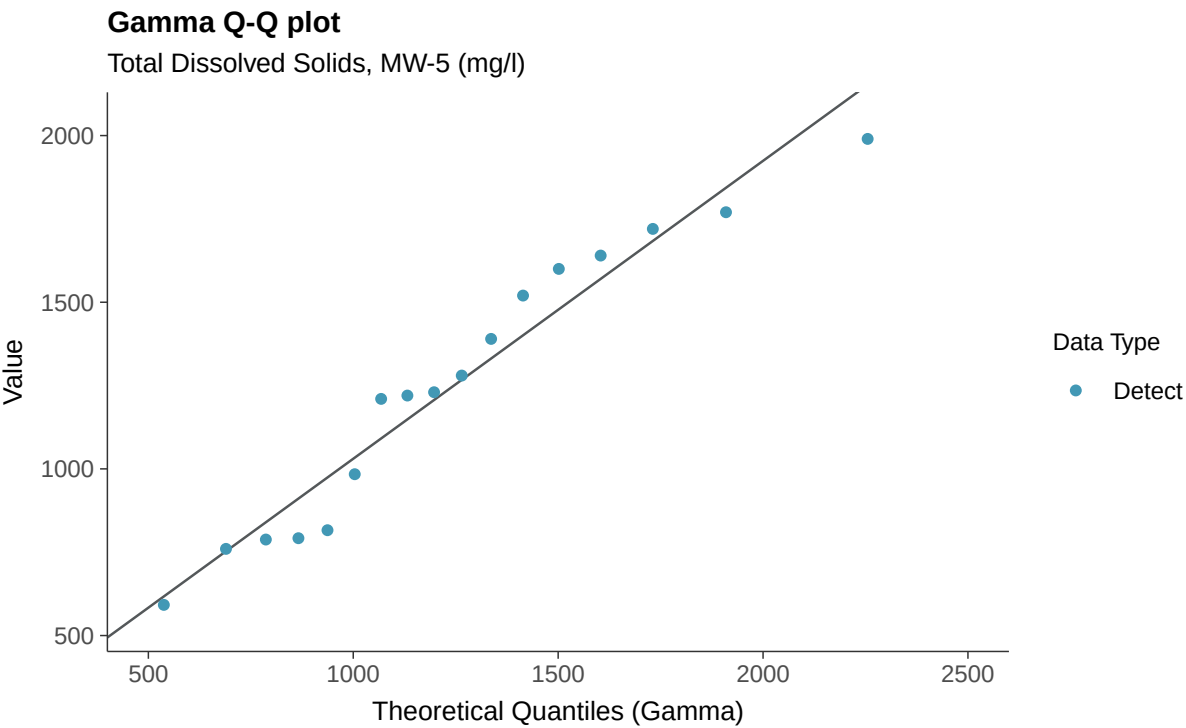


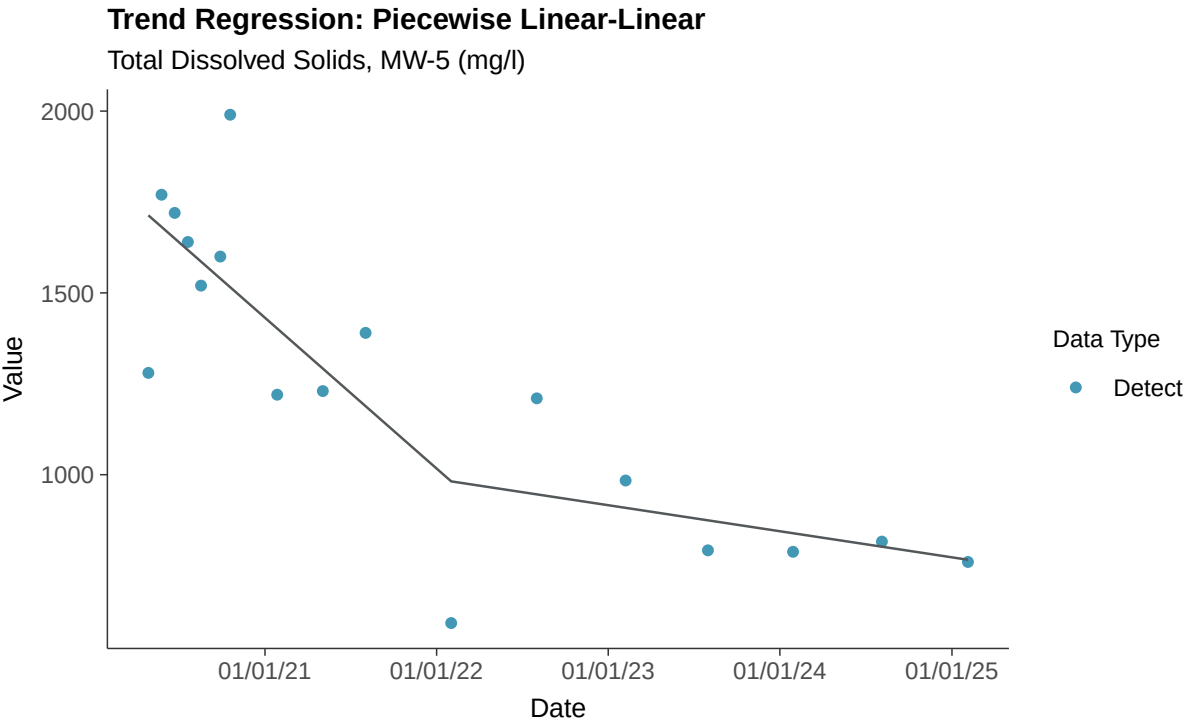
Boxplot by Season

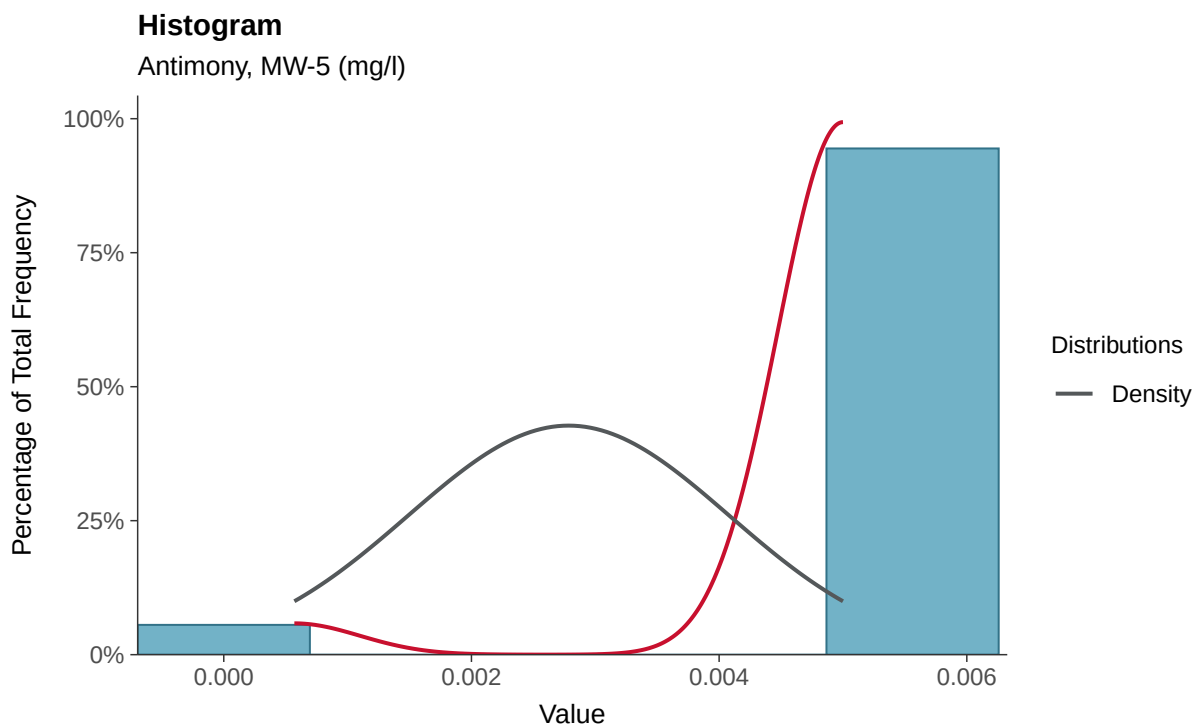
Total Dissolved Solids, MW-5 (mg/l)

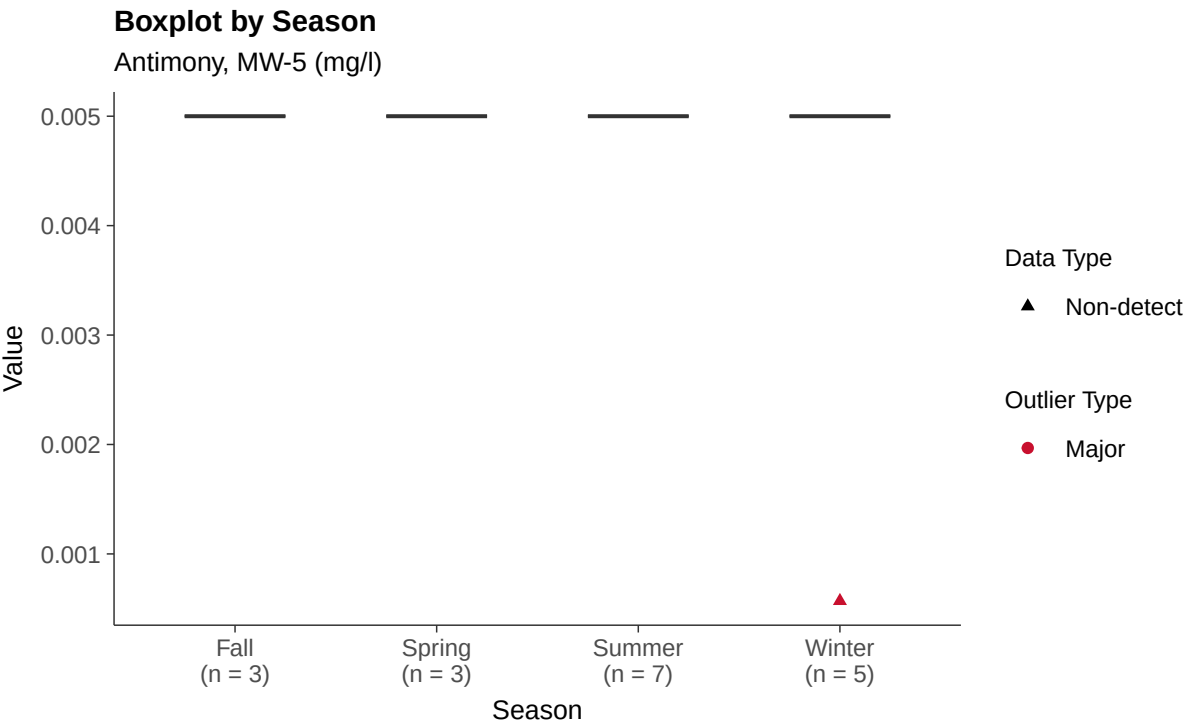
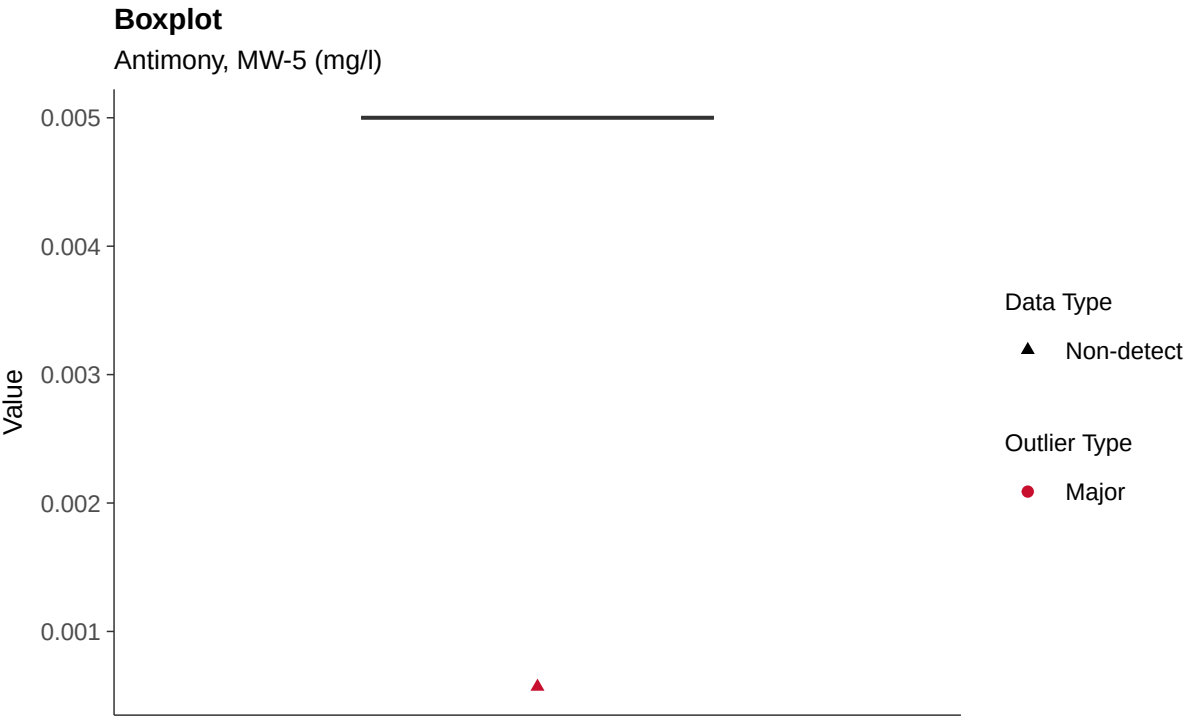


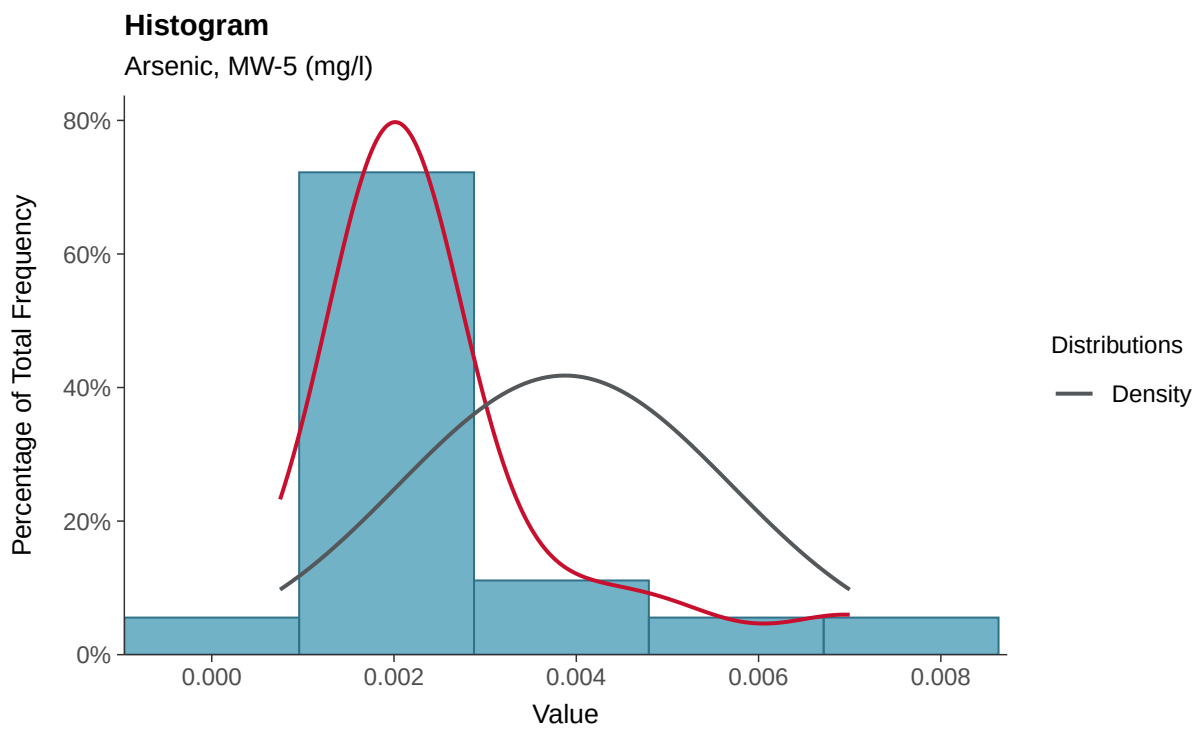


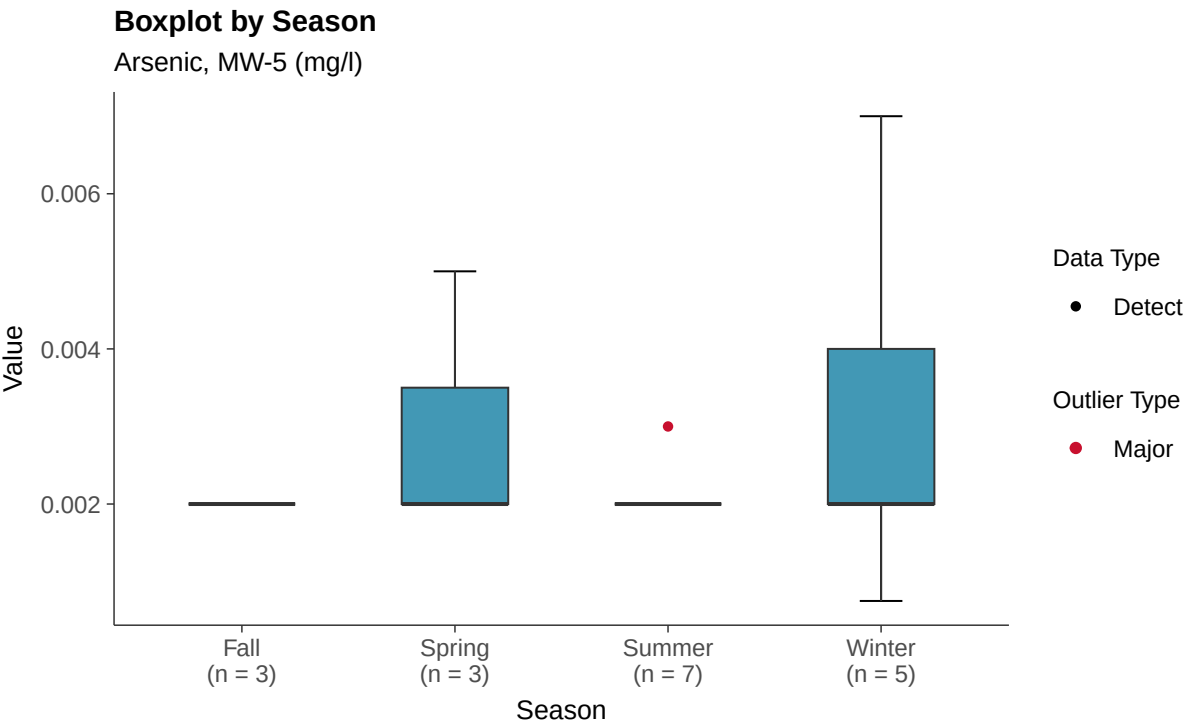


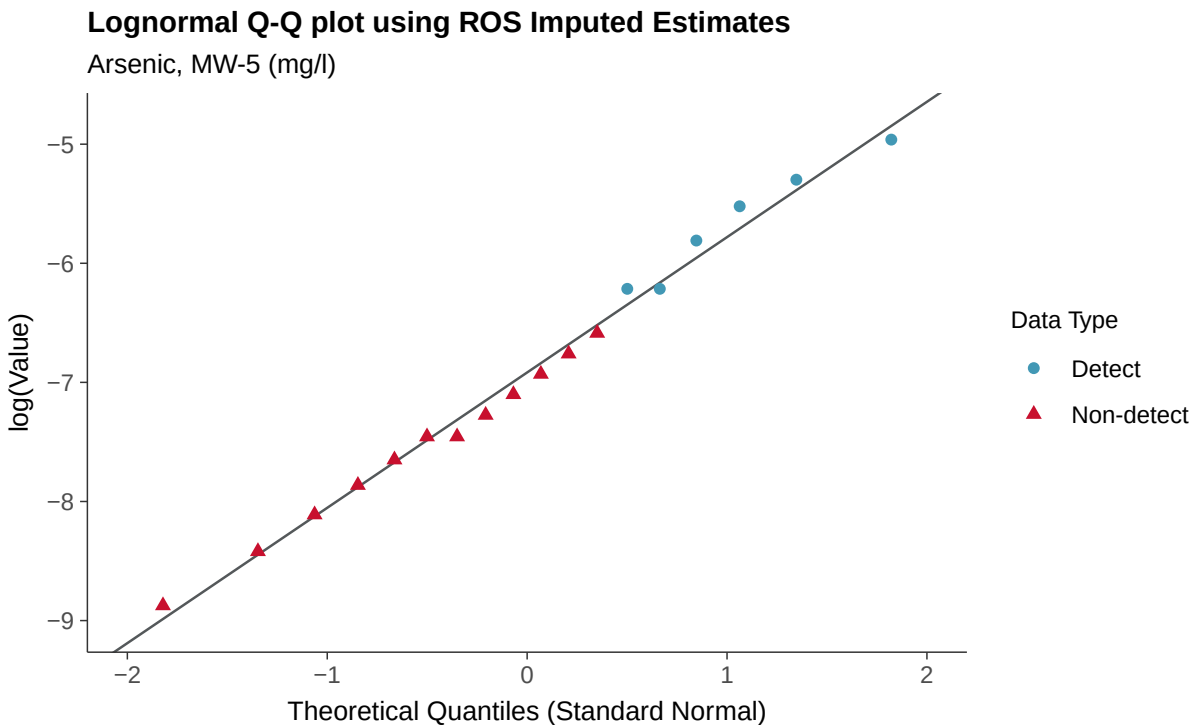
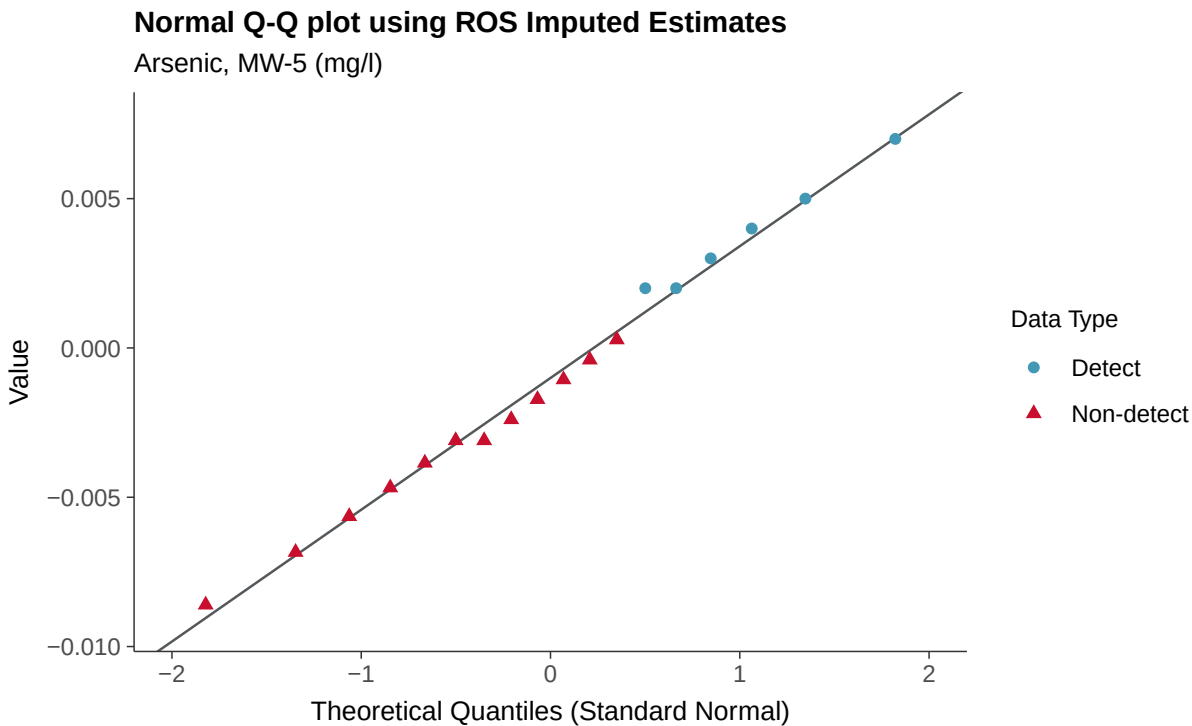


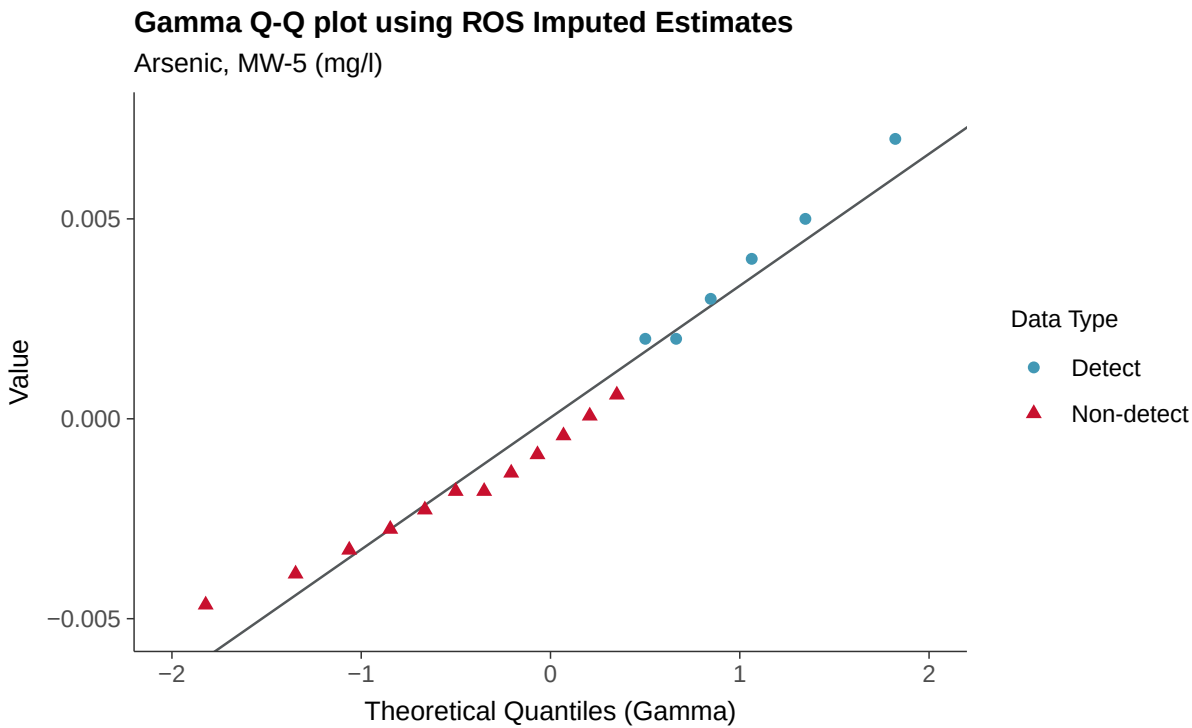








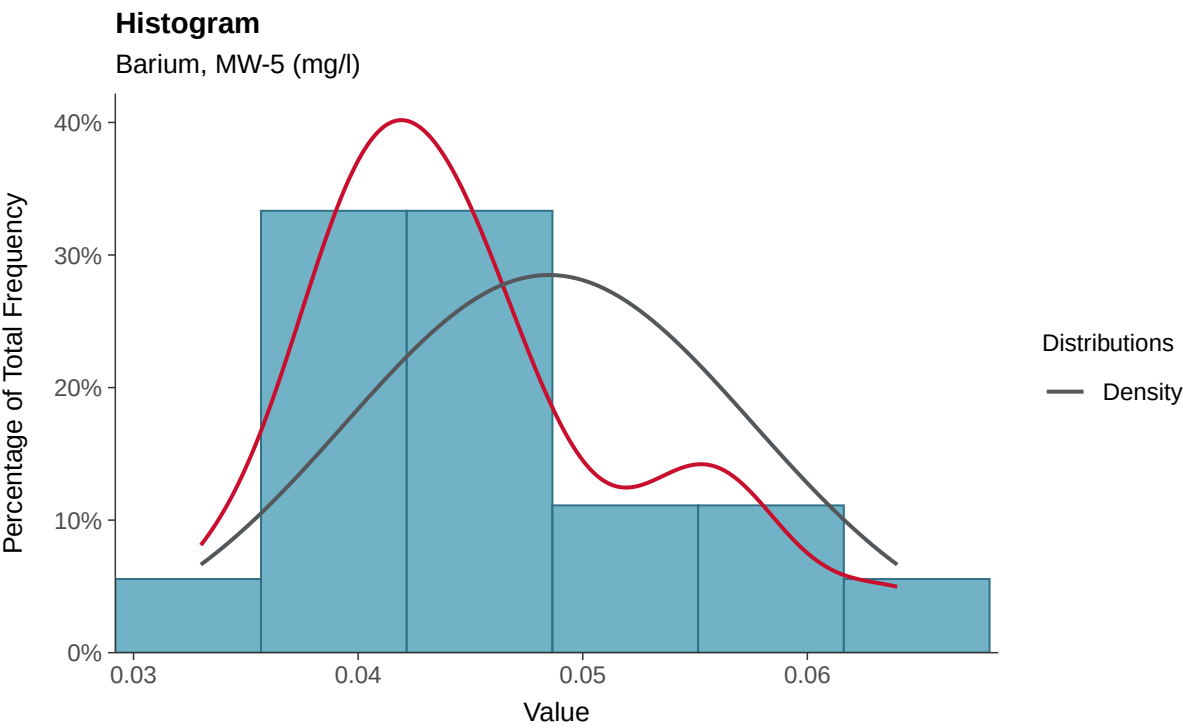
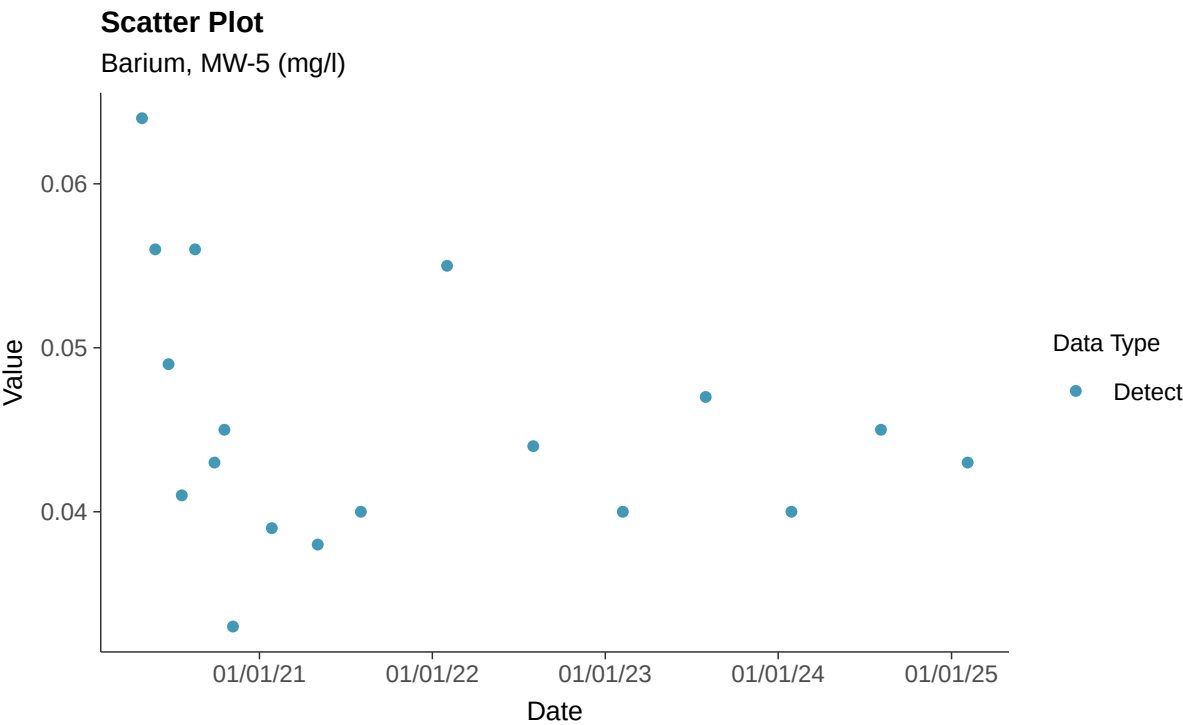


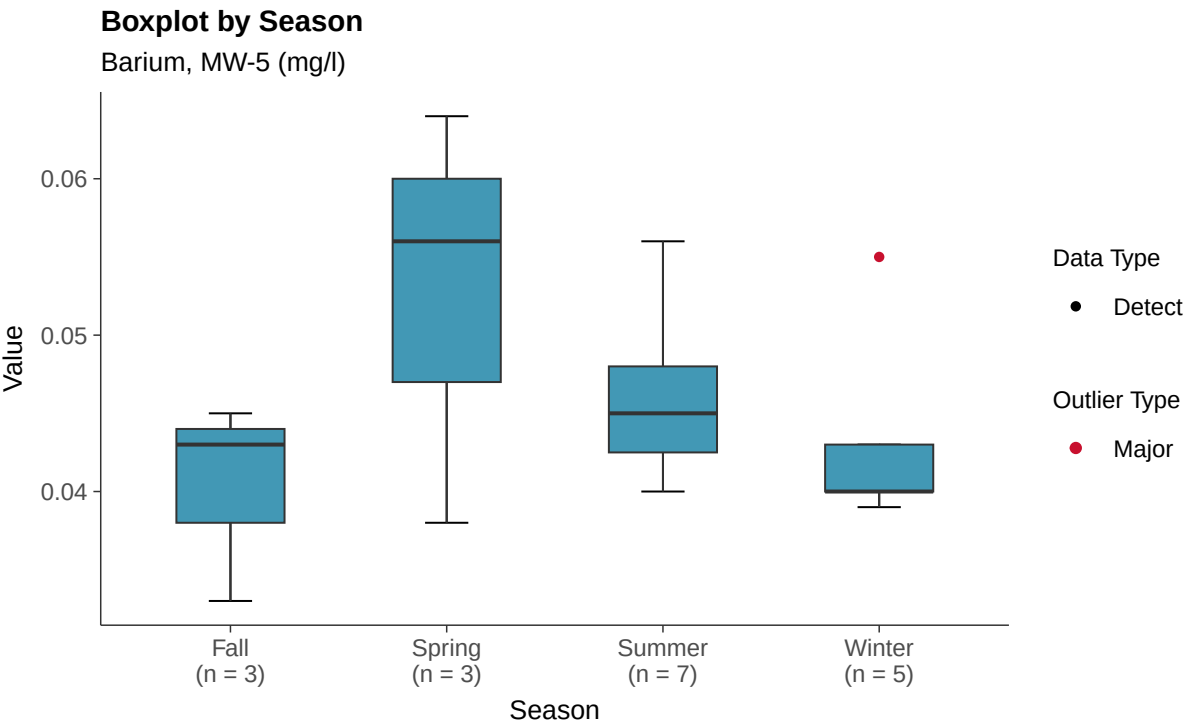
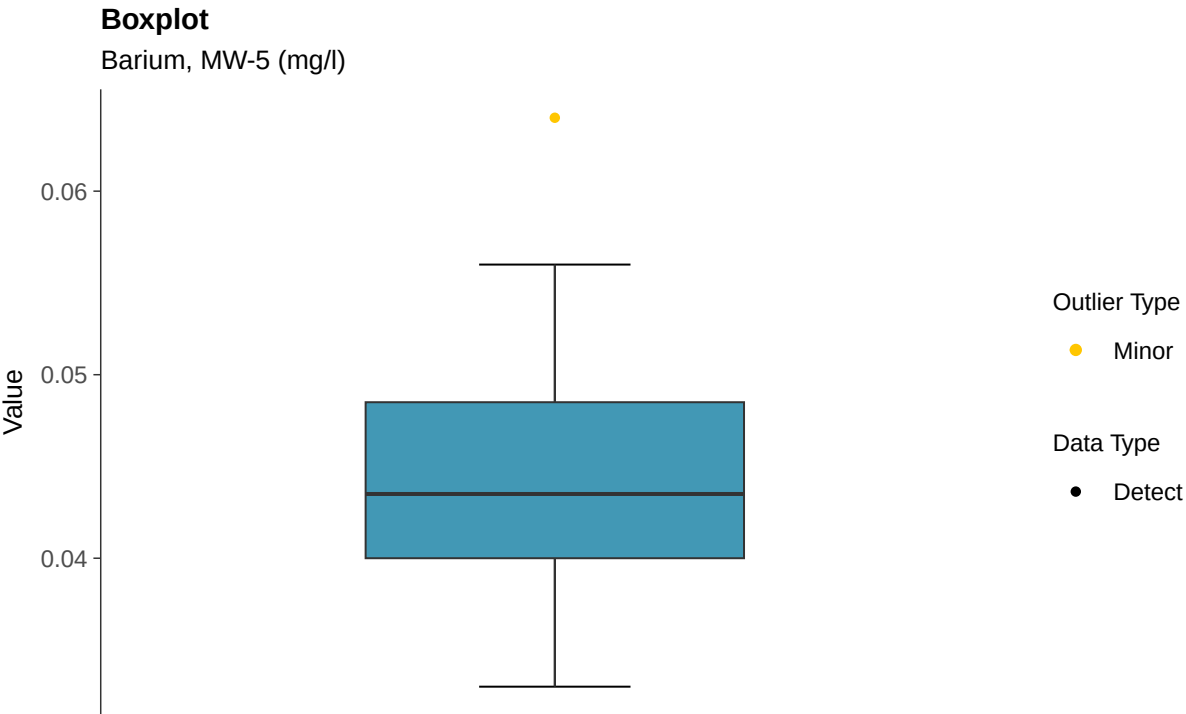


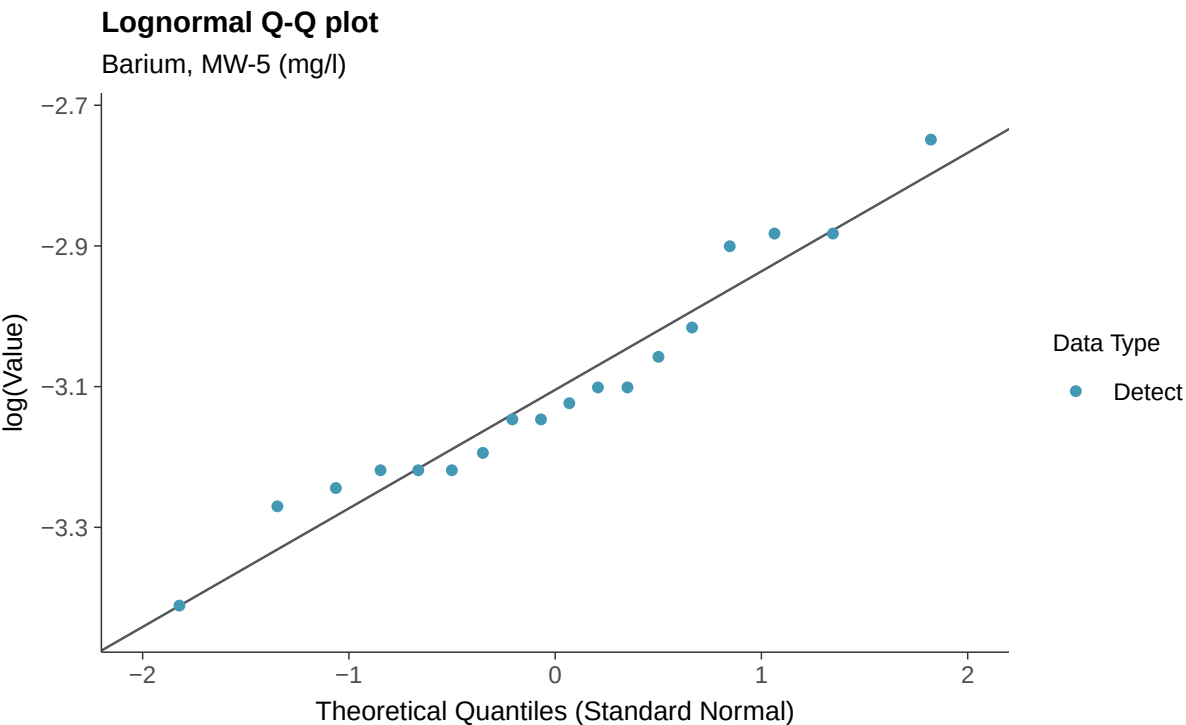
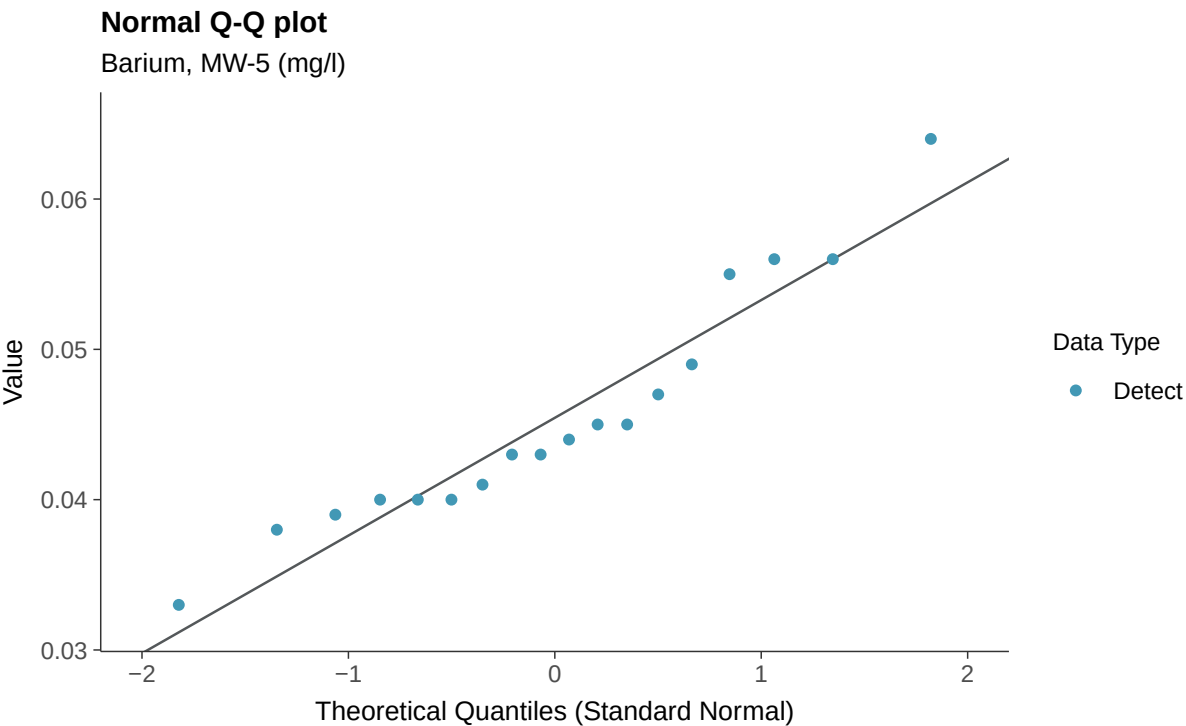


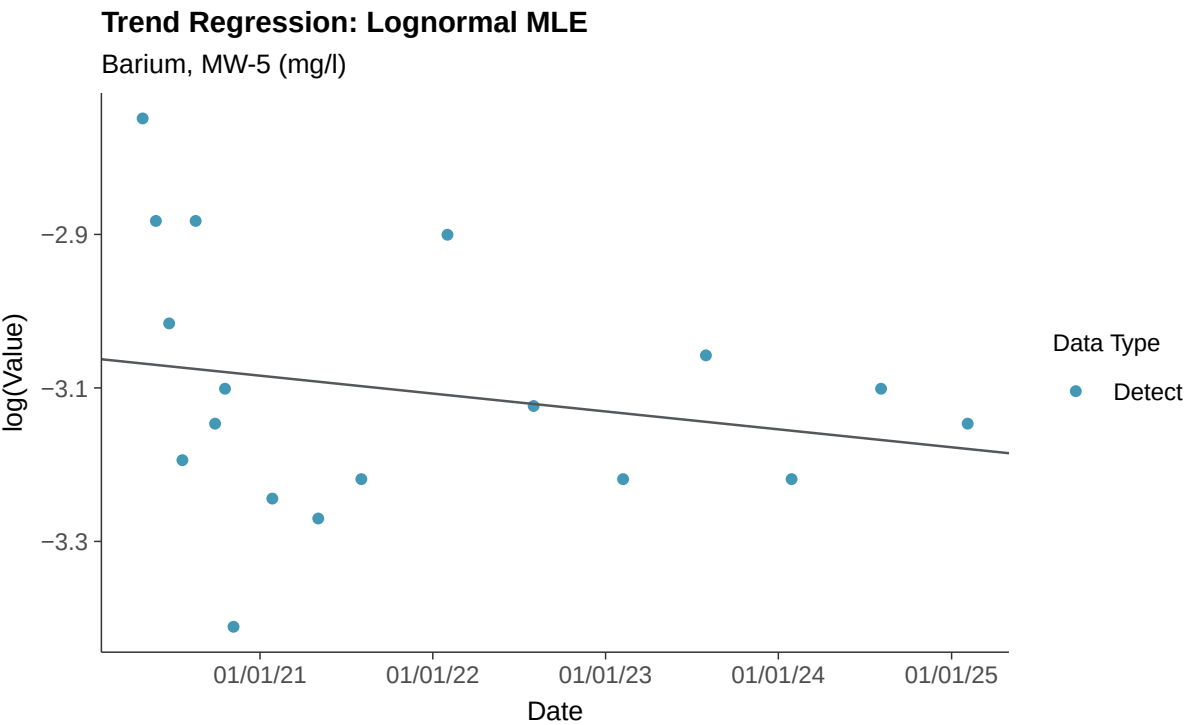
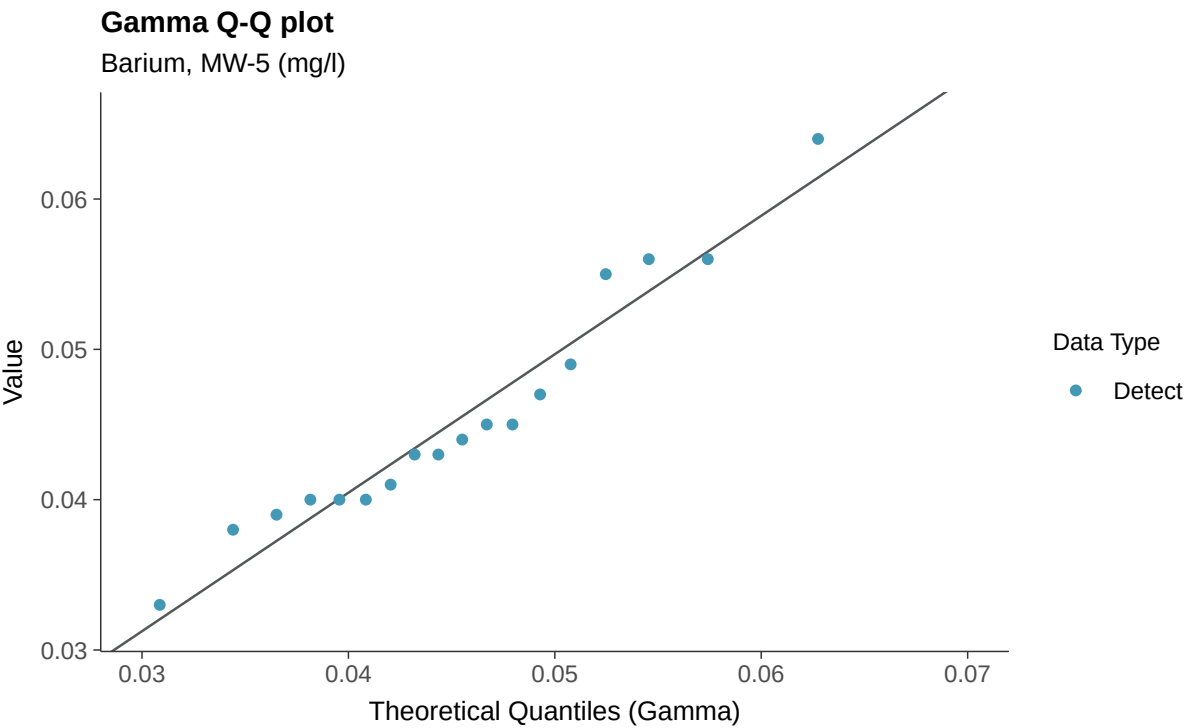
Appendix IV: Barium, MW-5

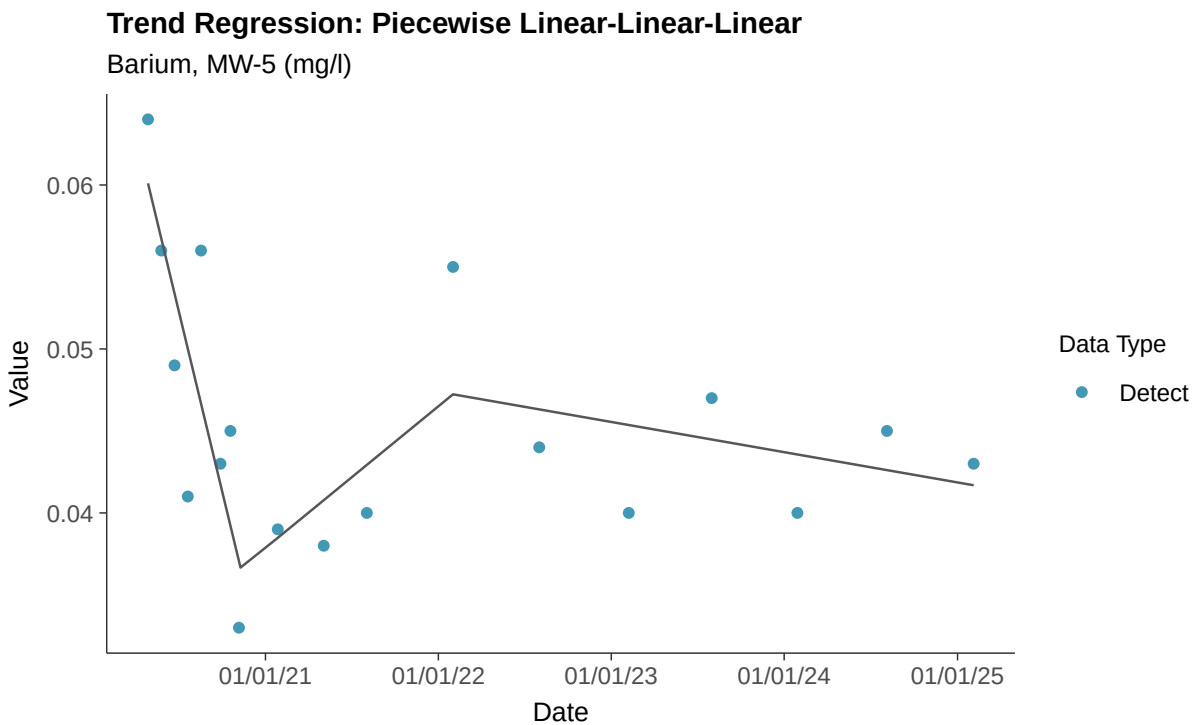
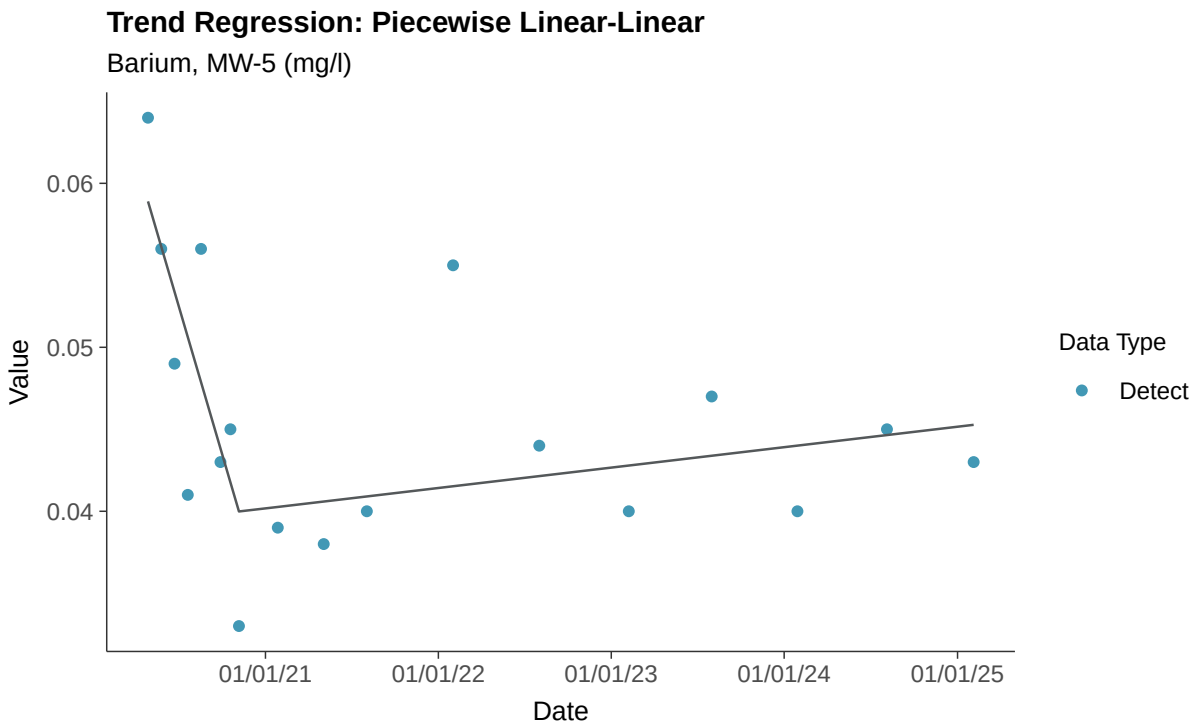
ID: 13_3_103

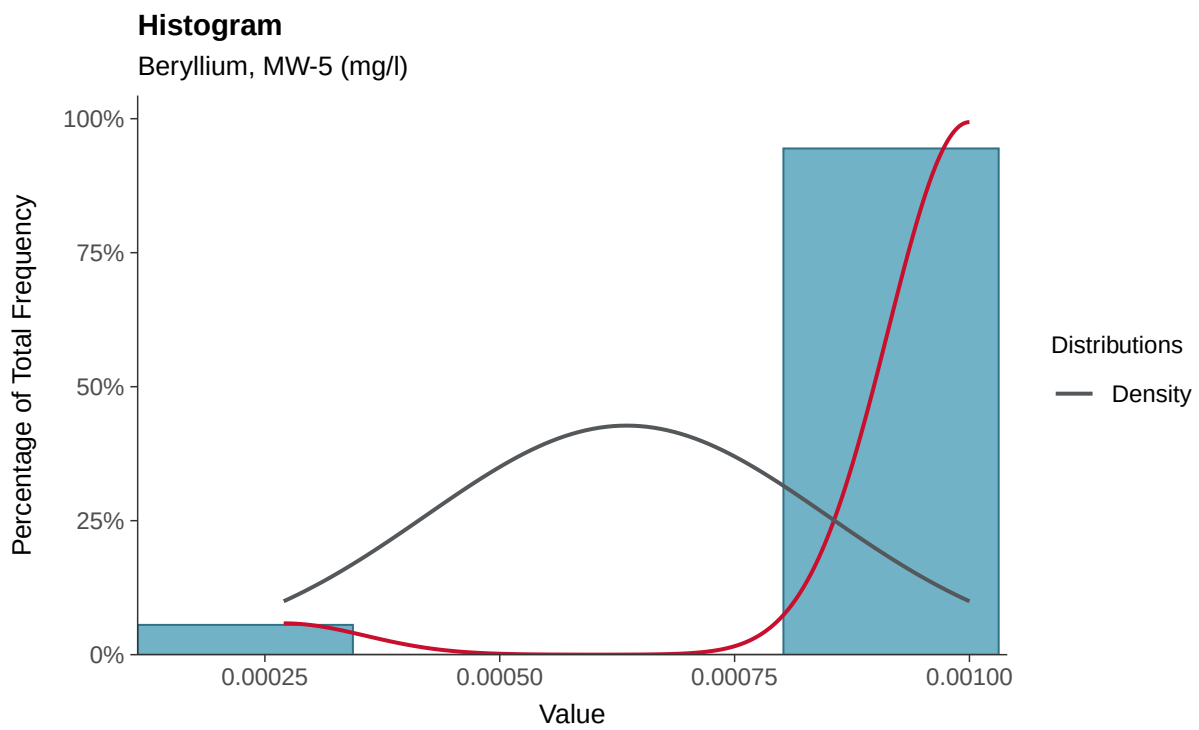


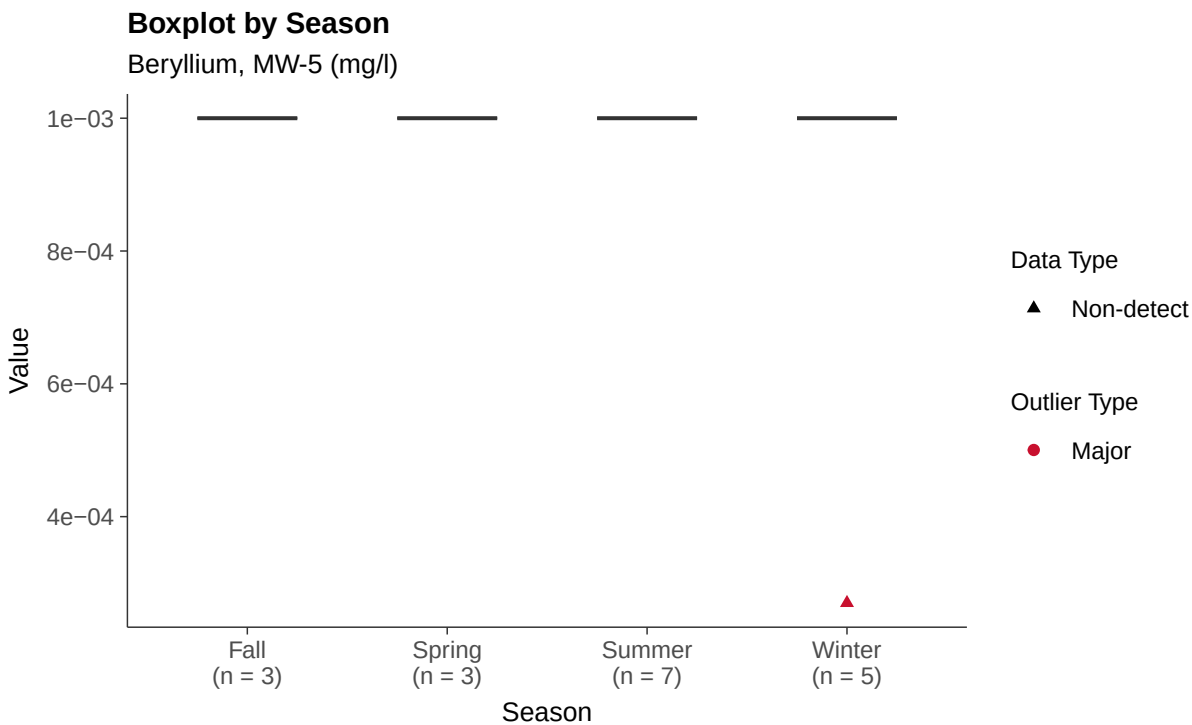
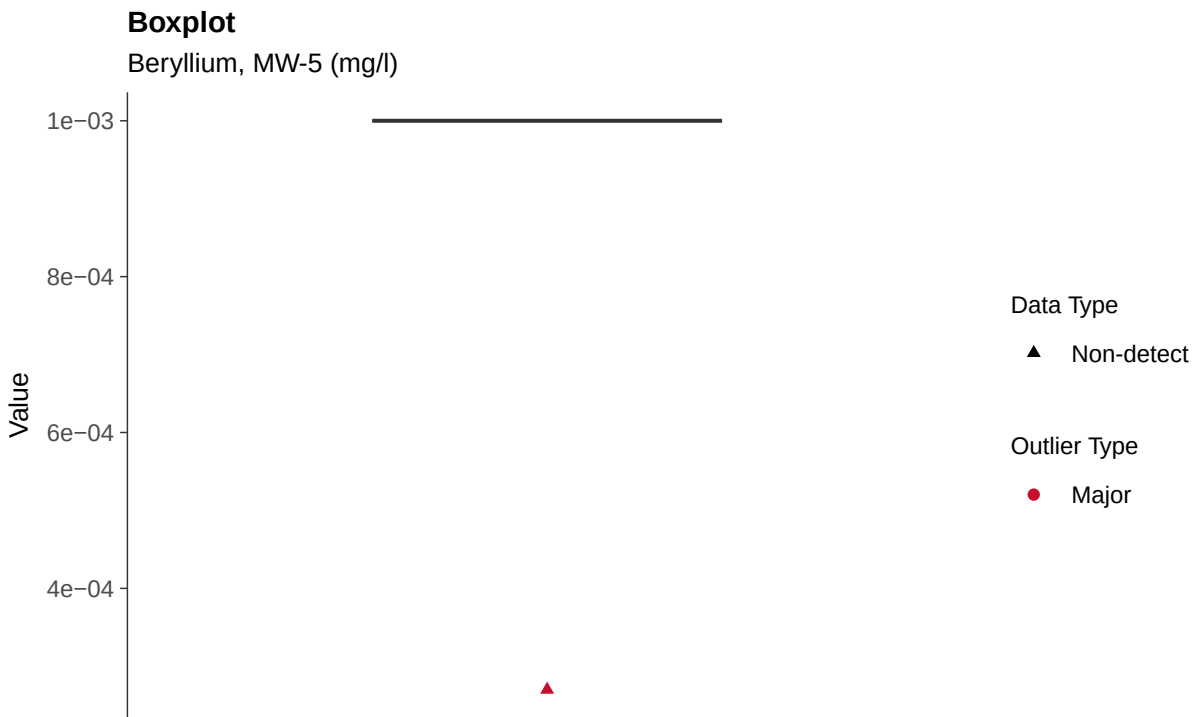


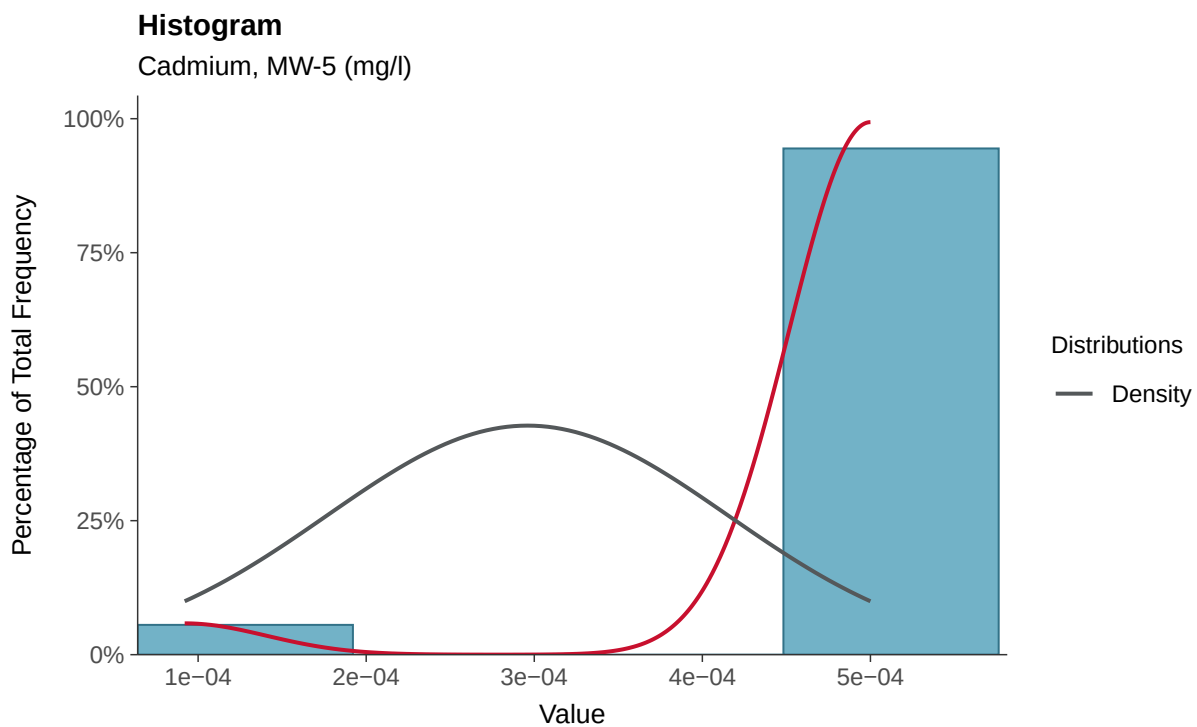


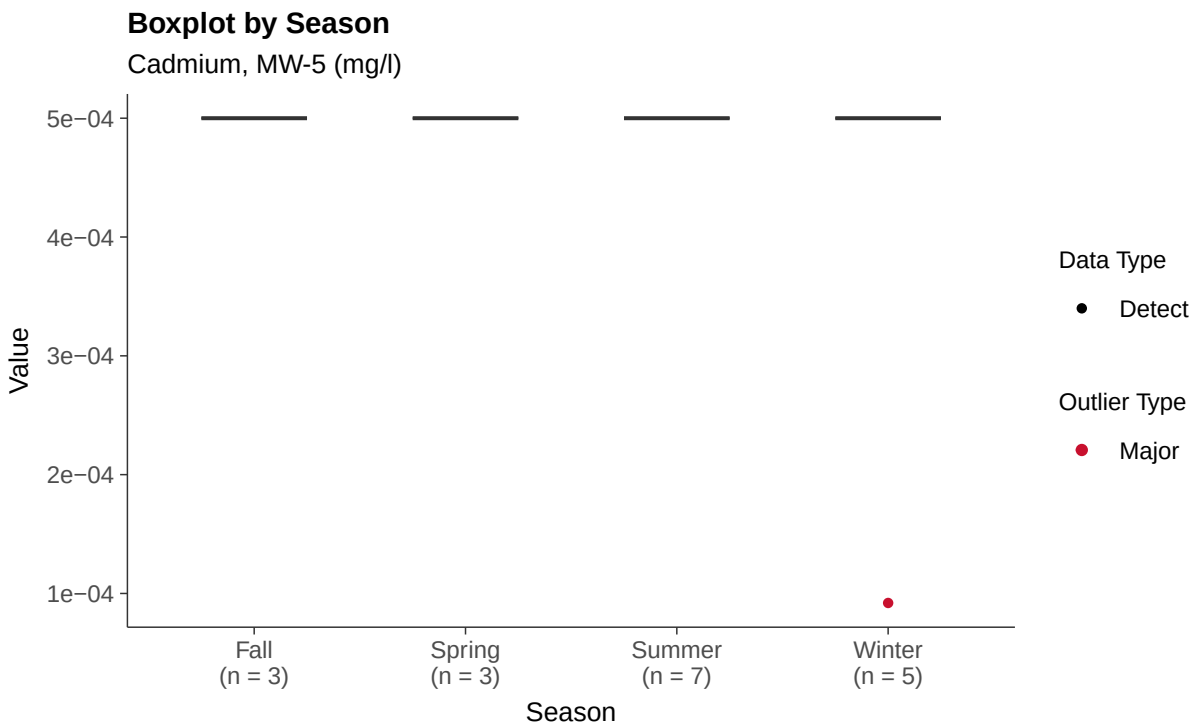
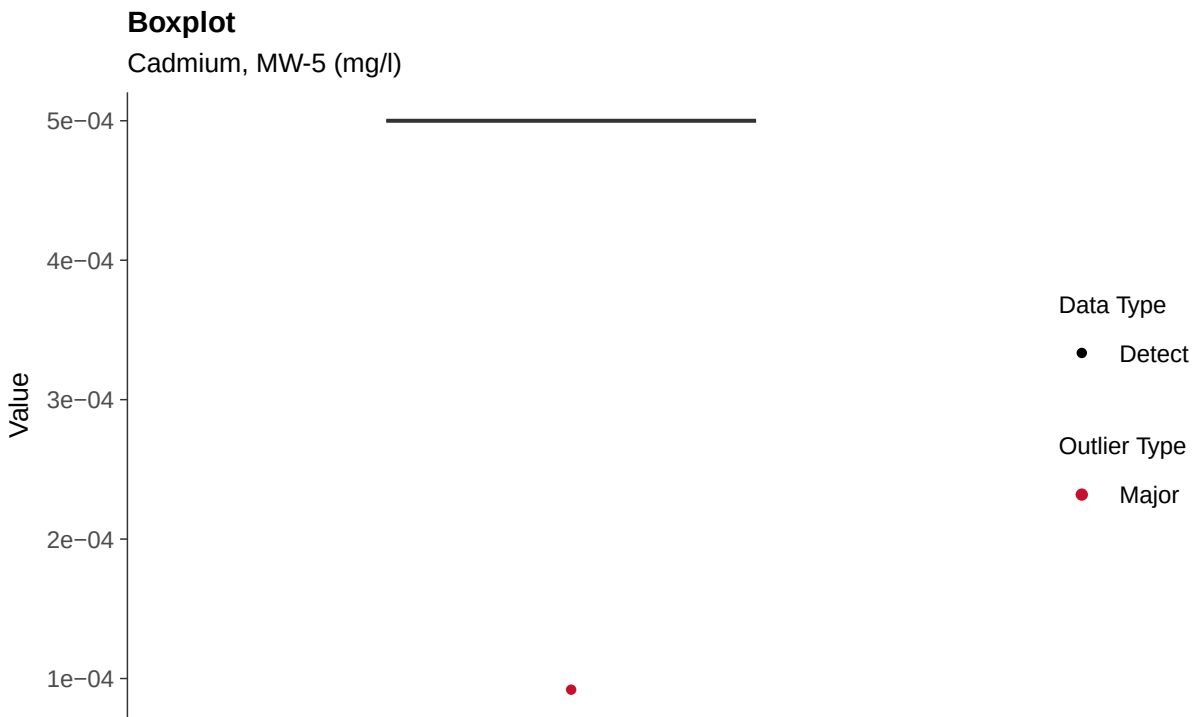


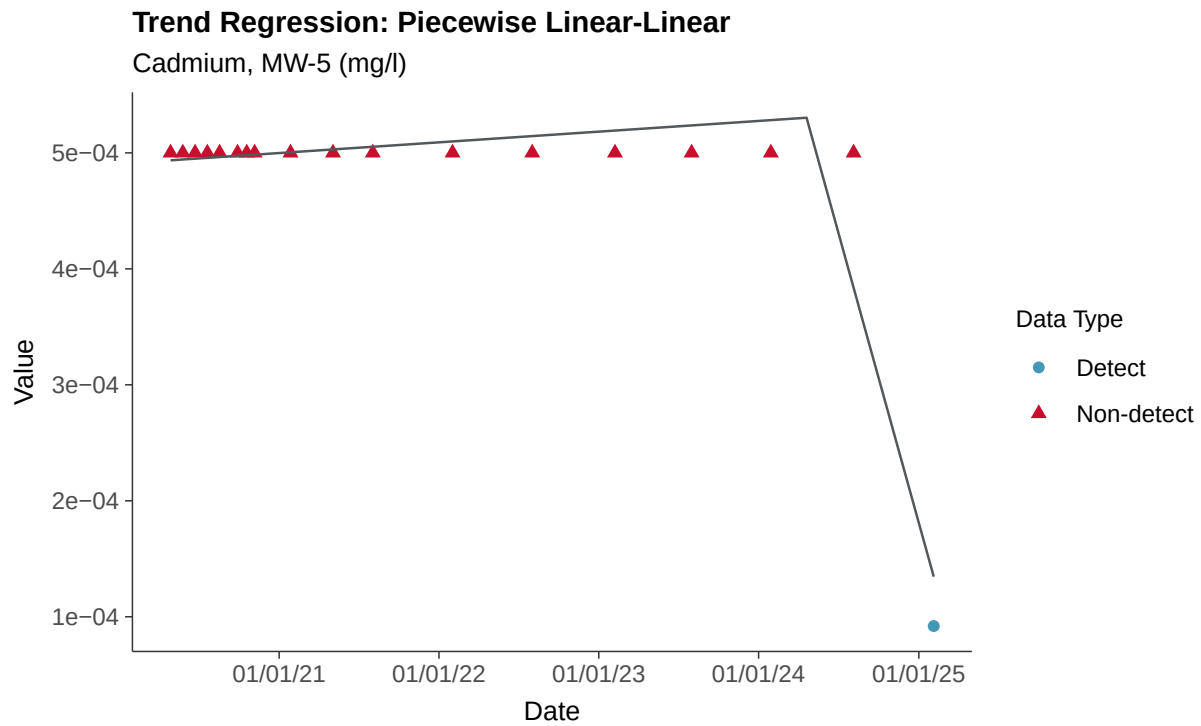








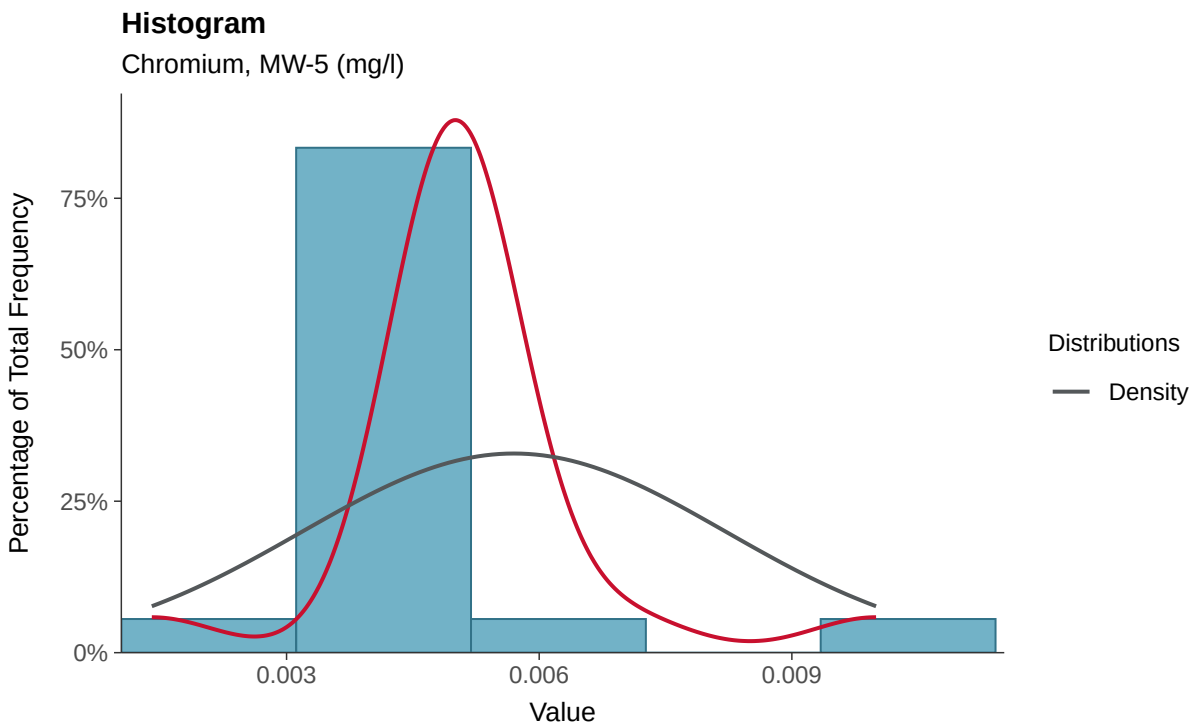
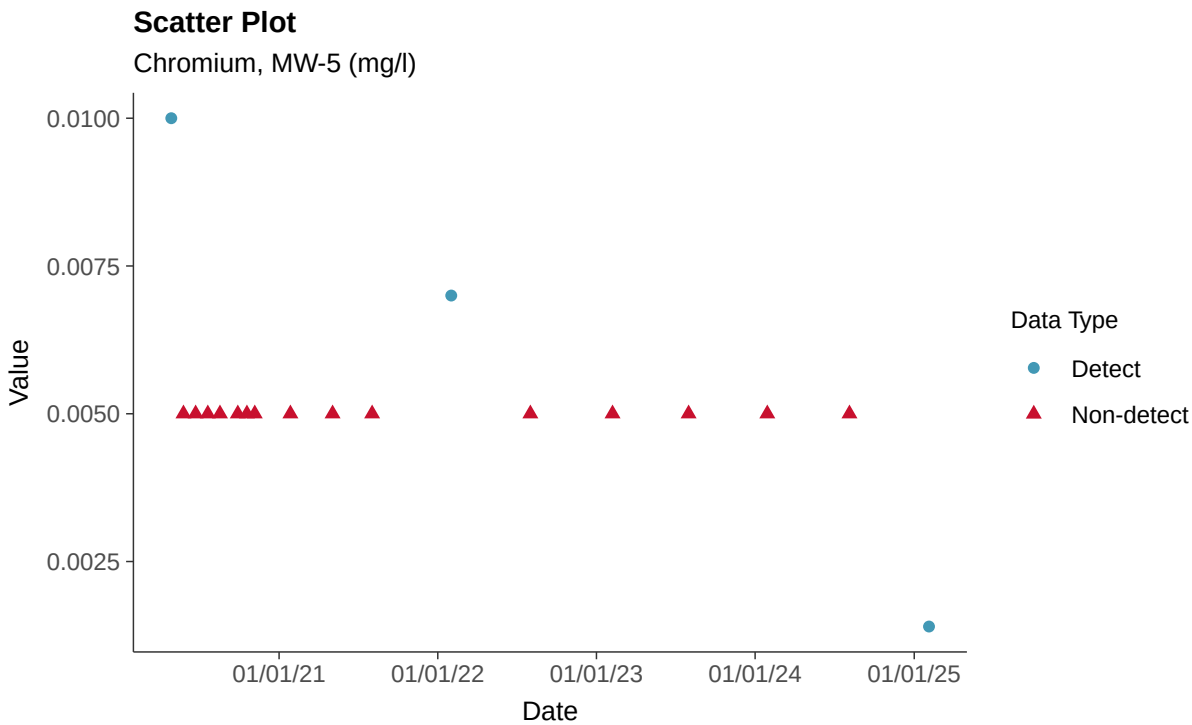


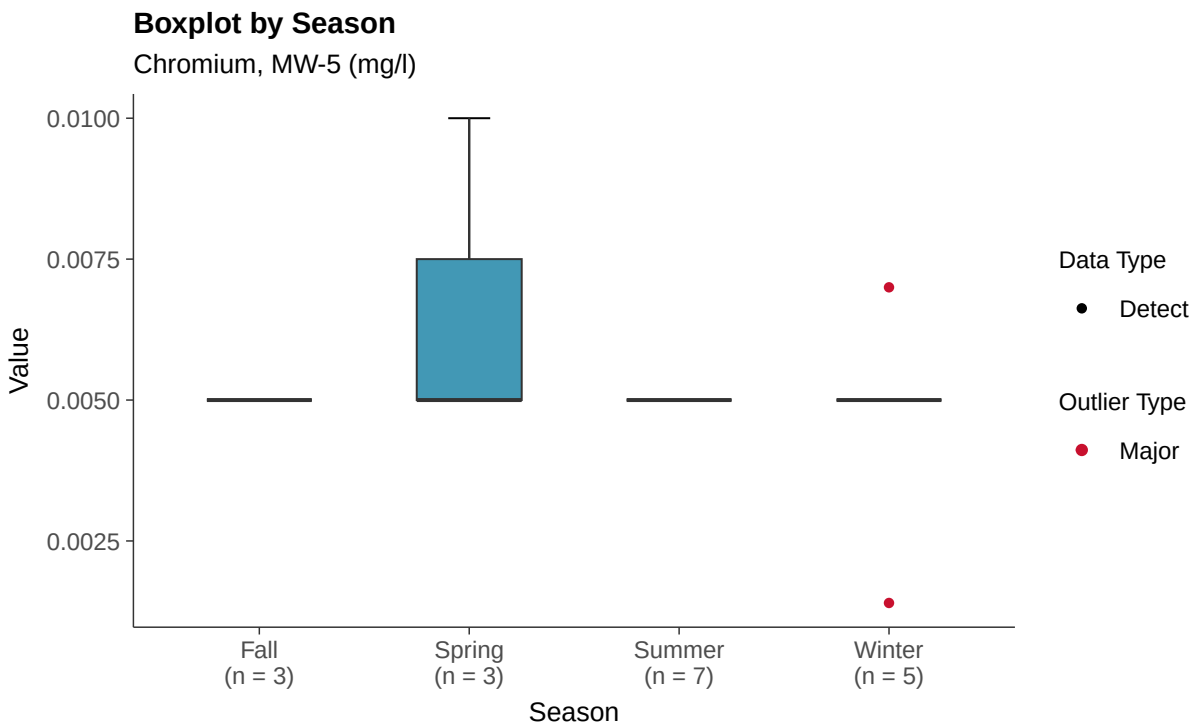
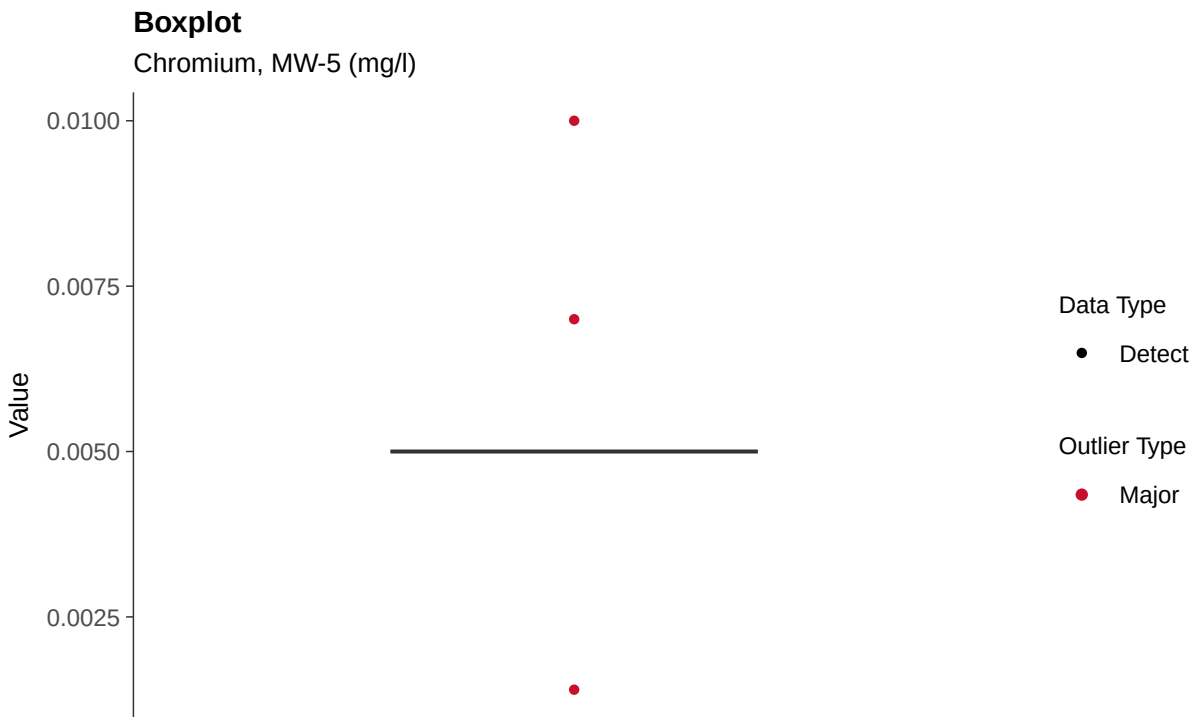


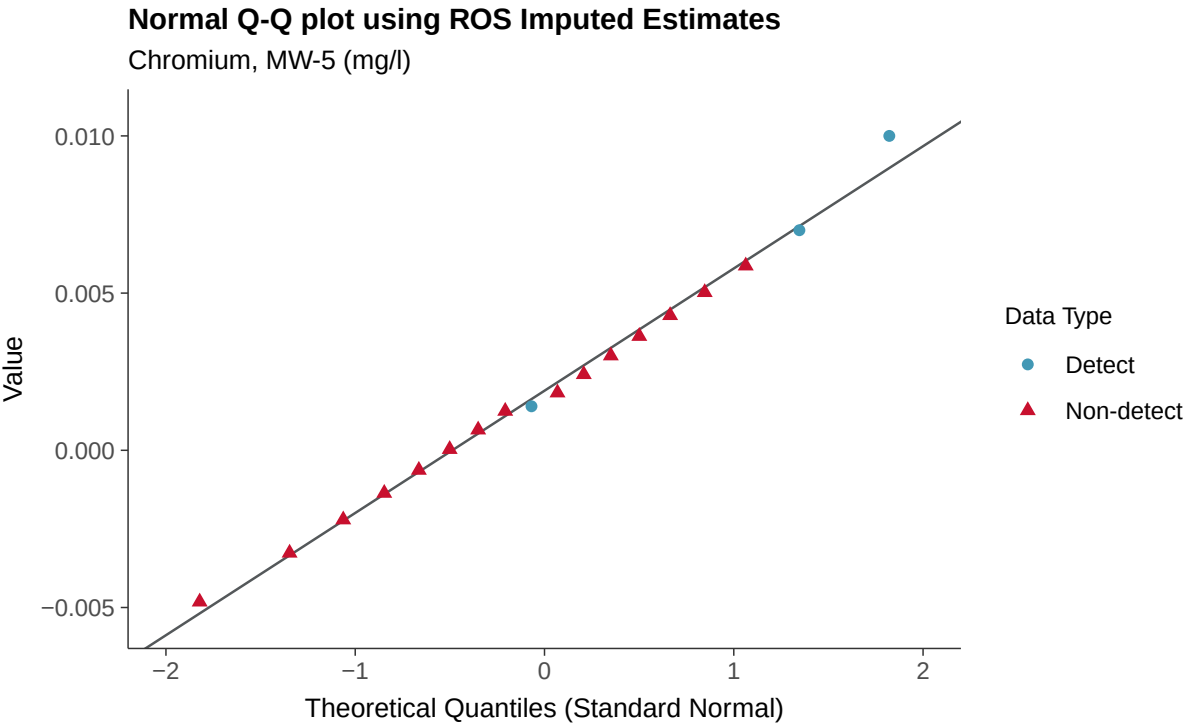


Appendix IV: Chromium, MW-5

ID: 13_3_109



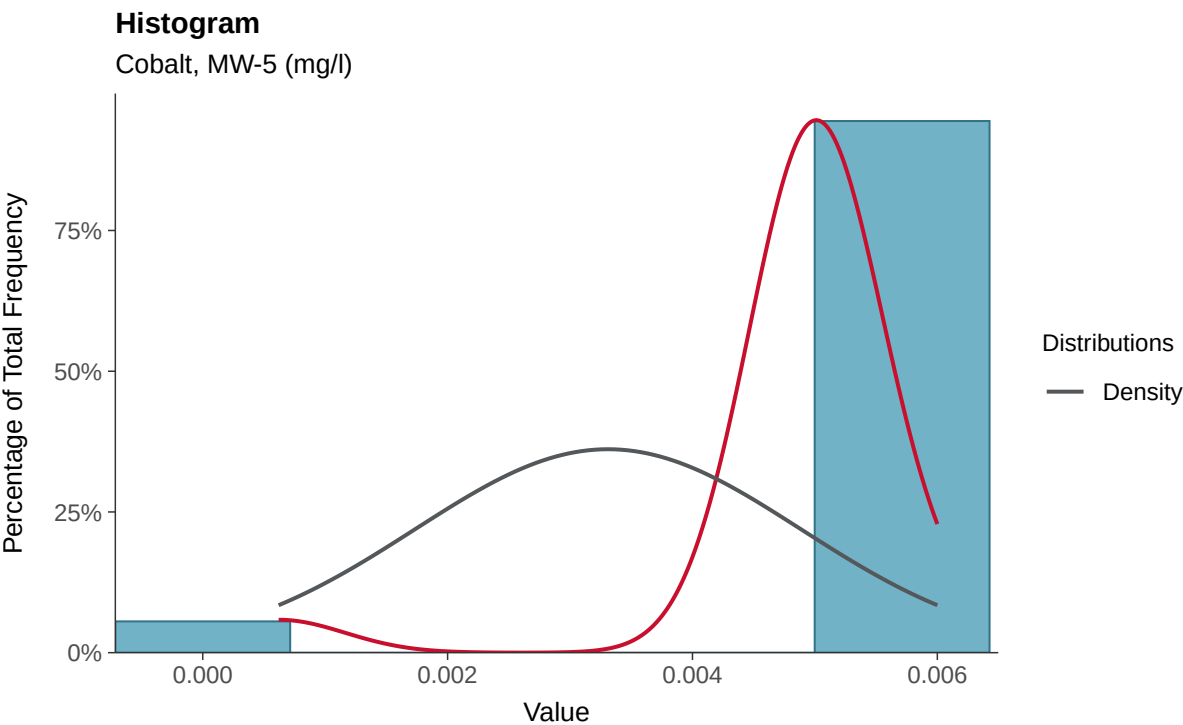
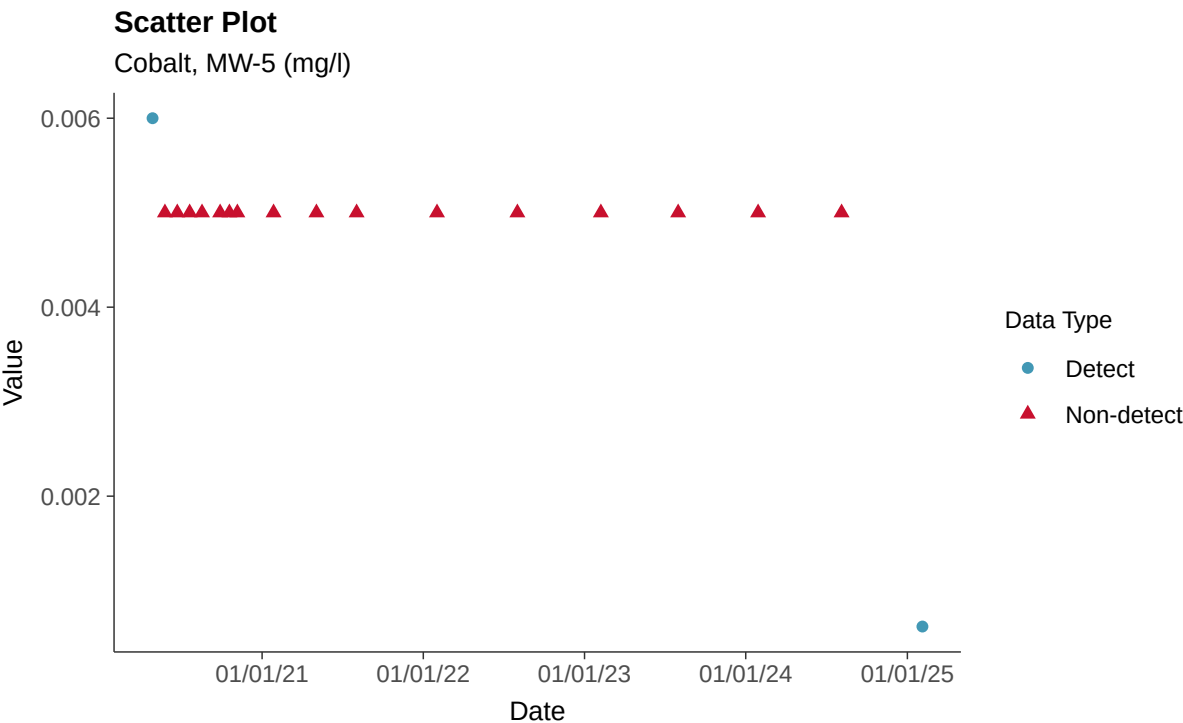


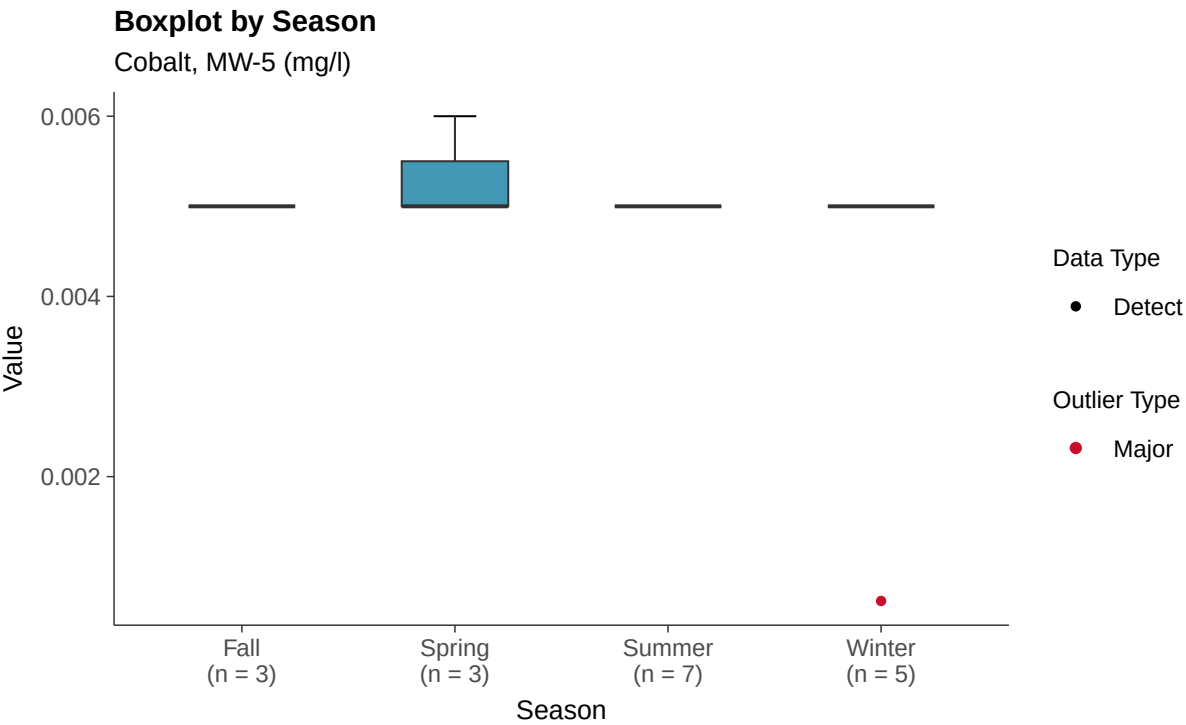
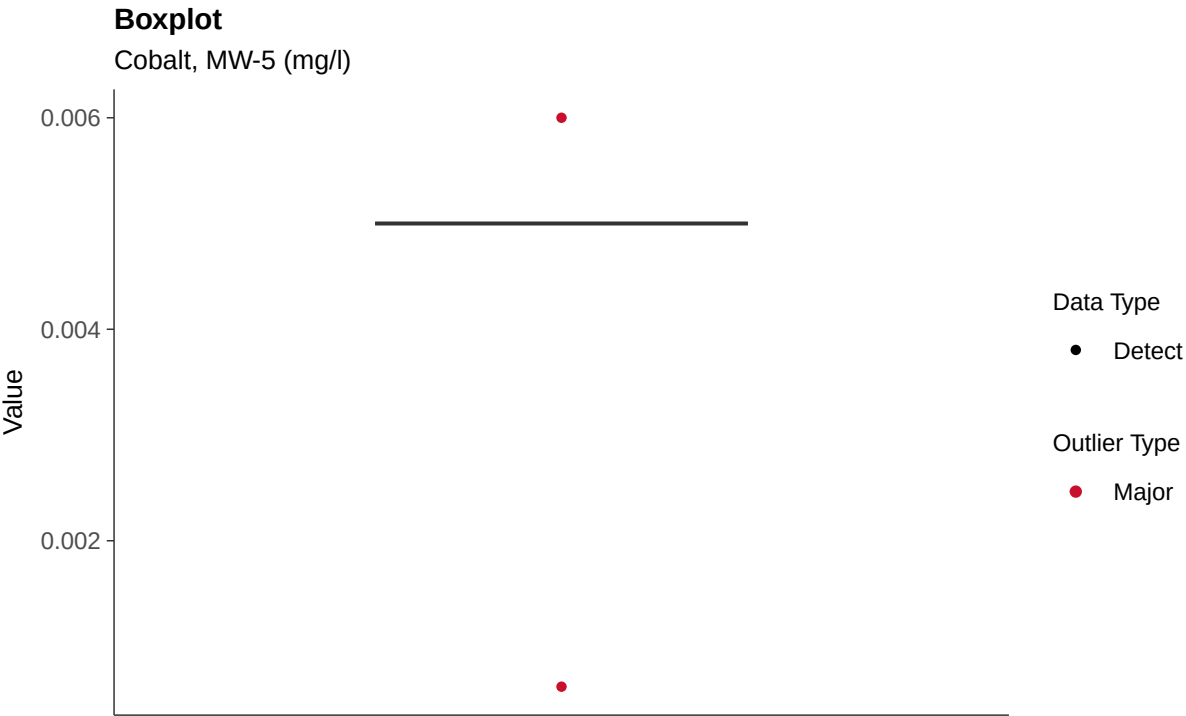




Appendix IV: Cobalt, MW-5

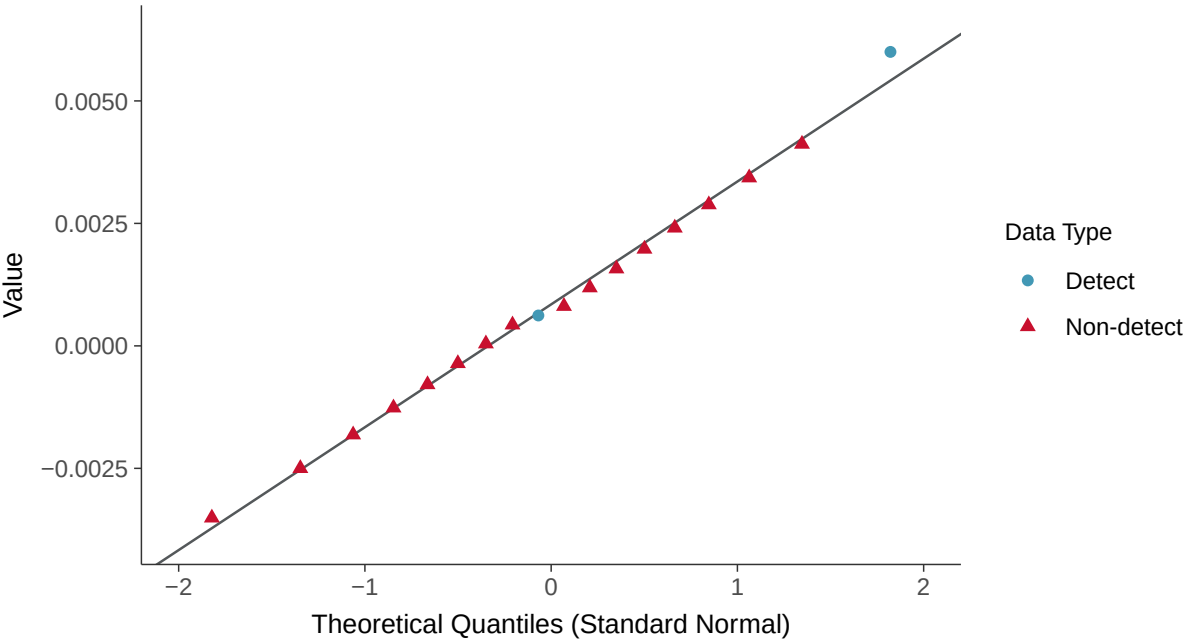
ID: 13_3_110







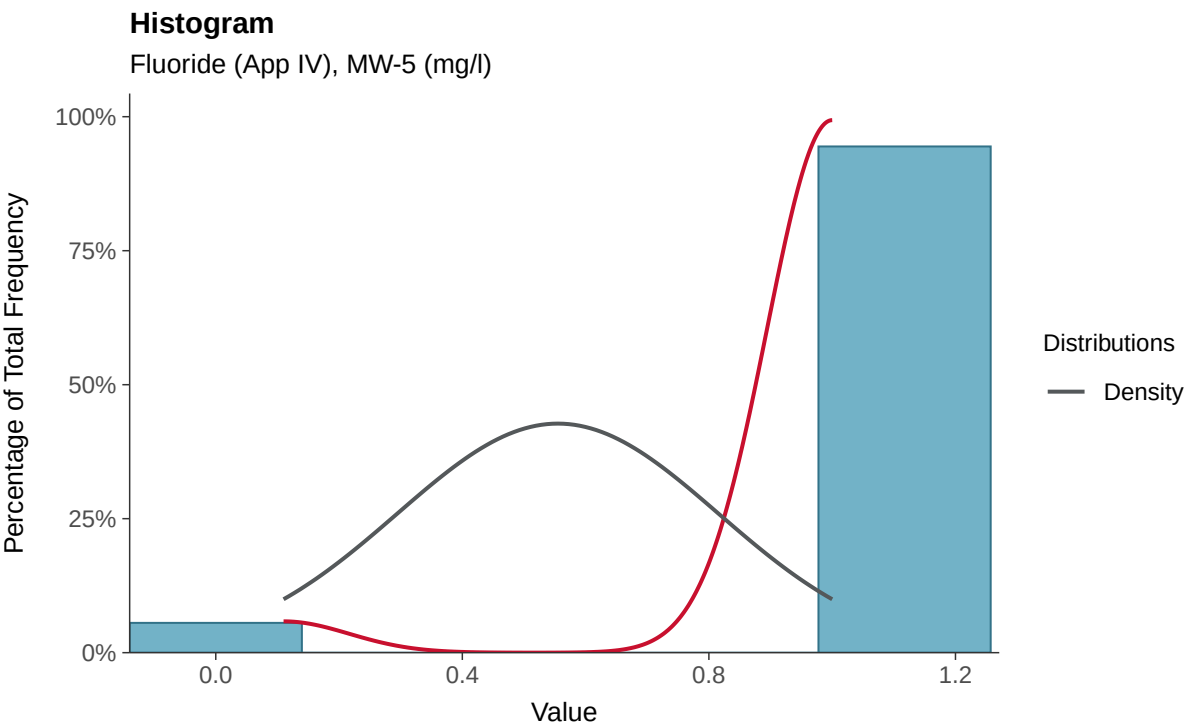
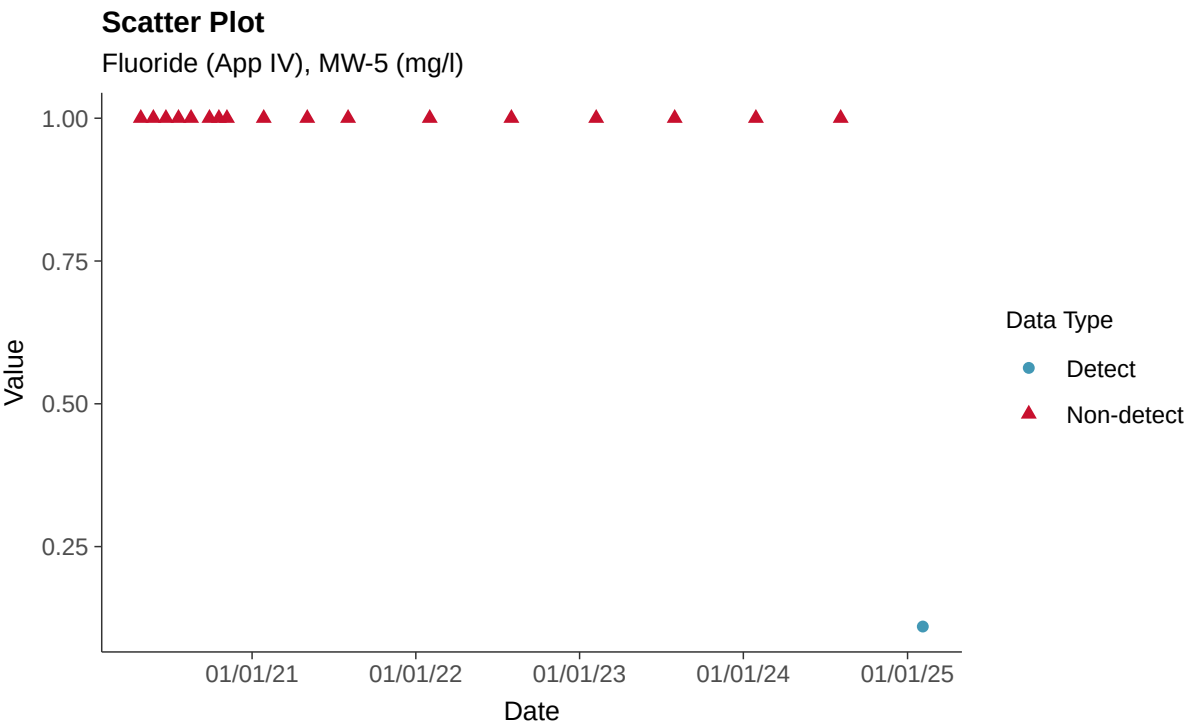
Normal Q-Q plot using ROS Imputed Estimates
Cobalt, MW-5 (mg/l)

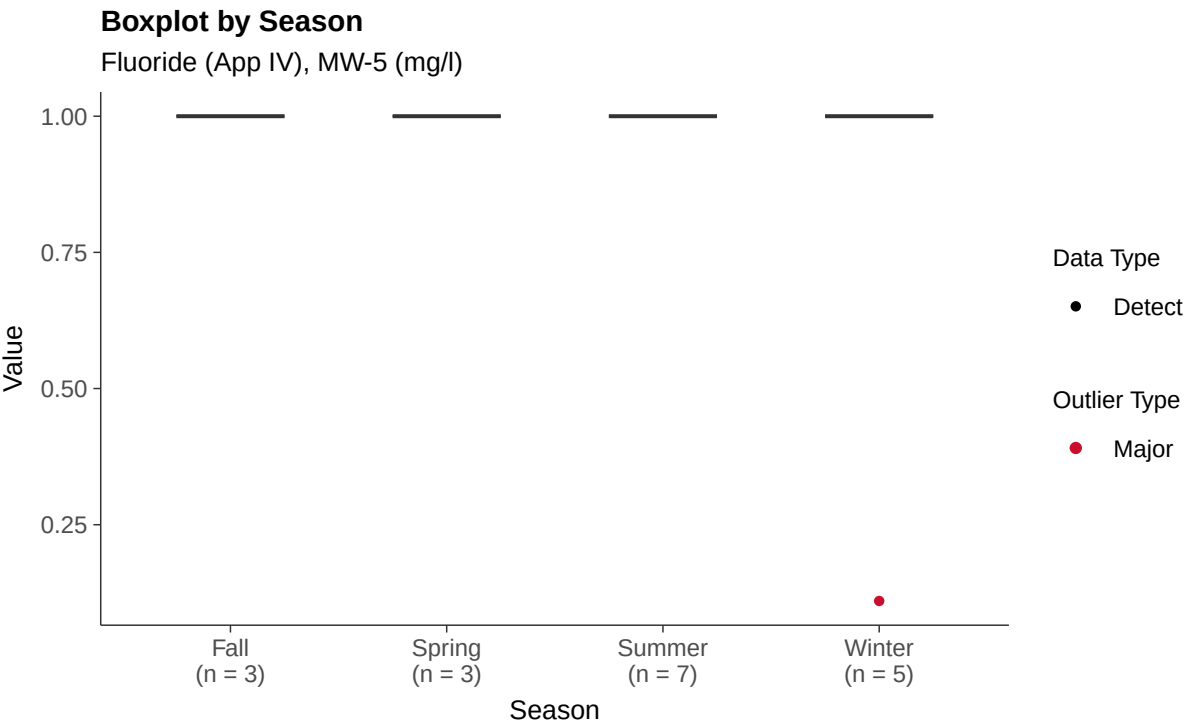
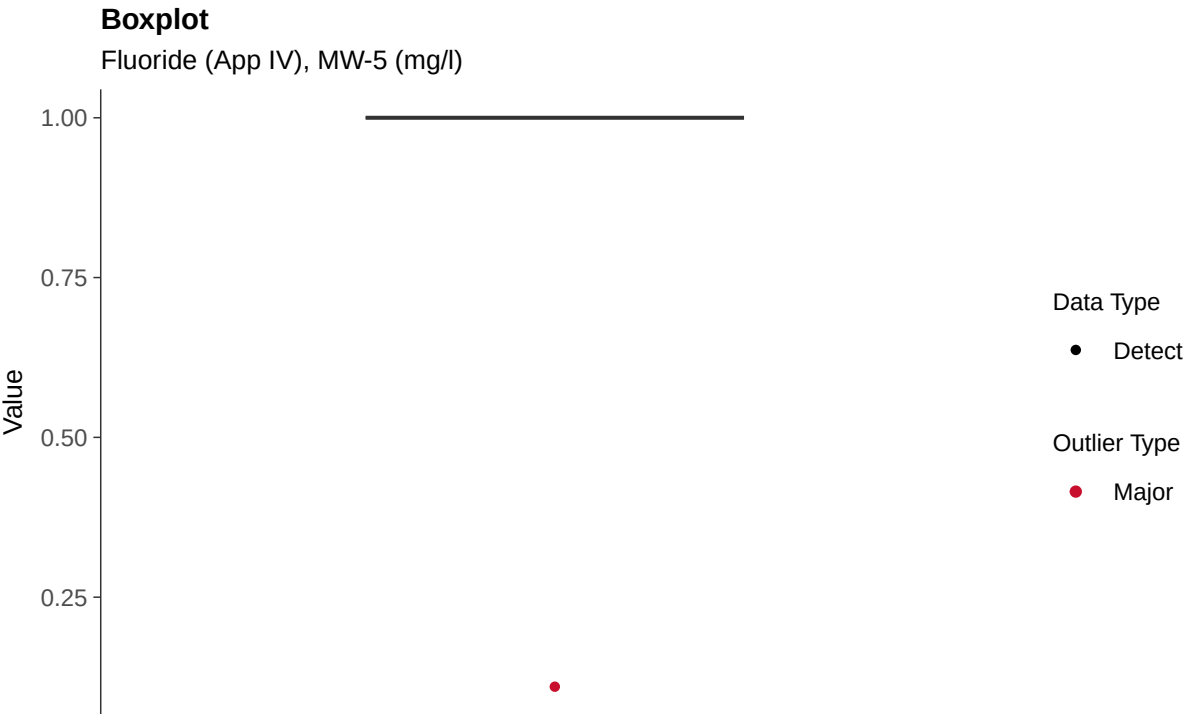




Appendix IV: Fluoride (App IV), MW-5

ID: 13_3_113

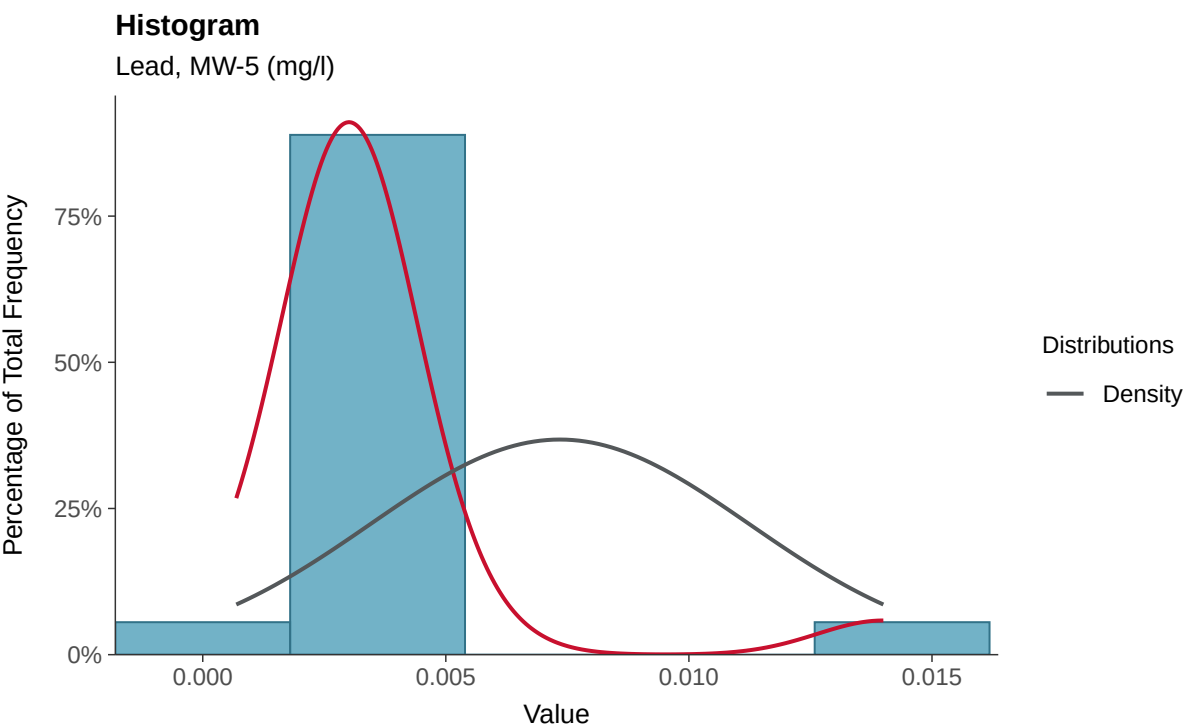
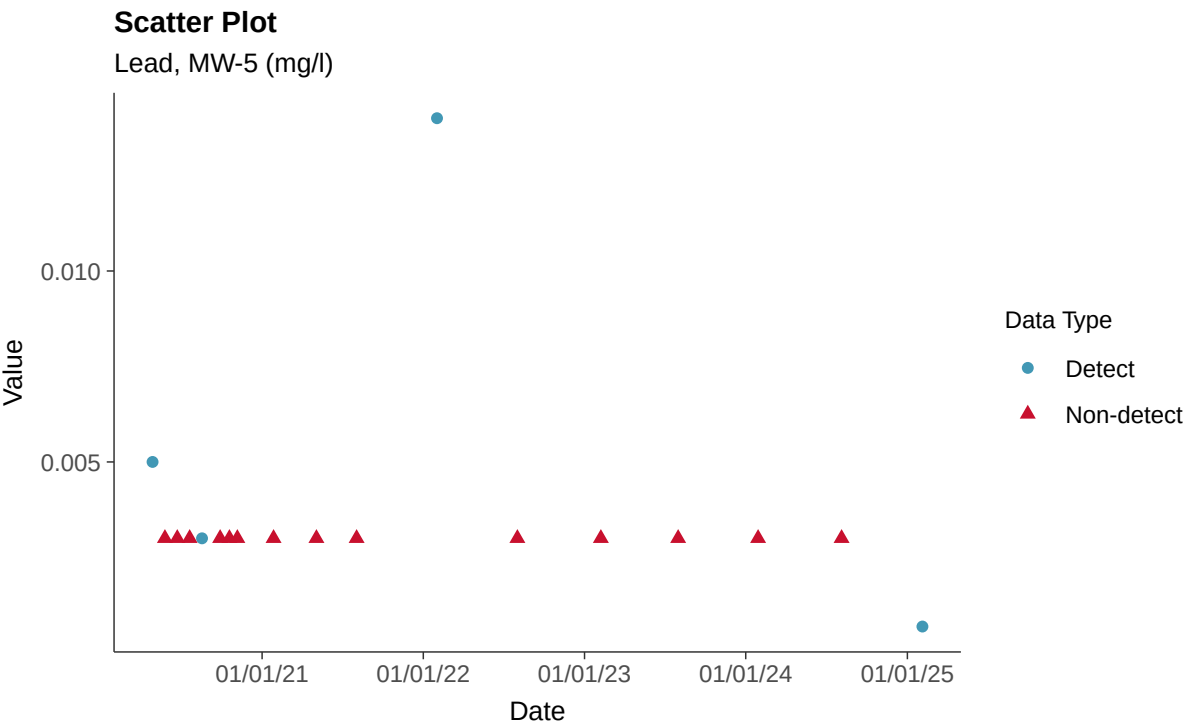


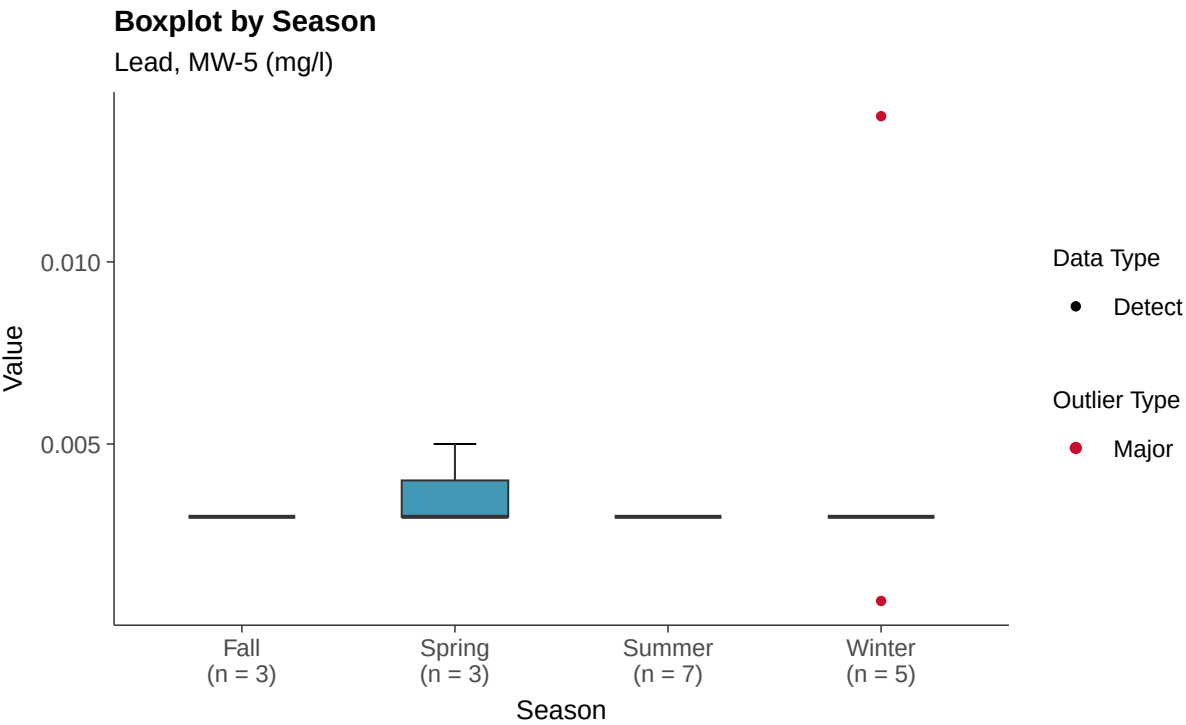
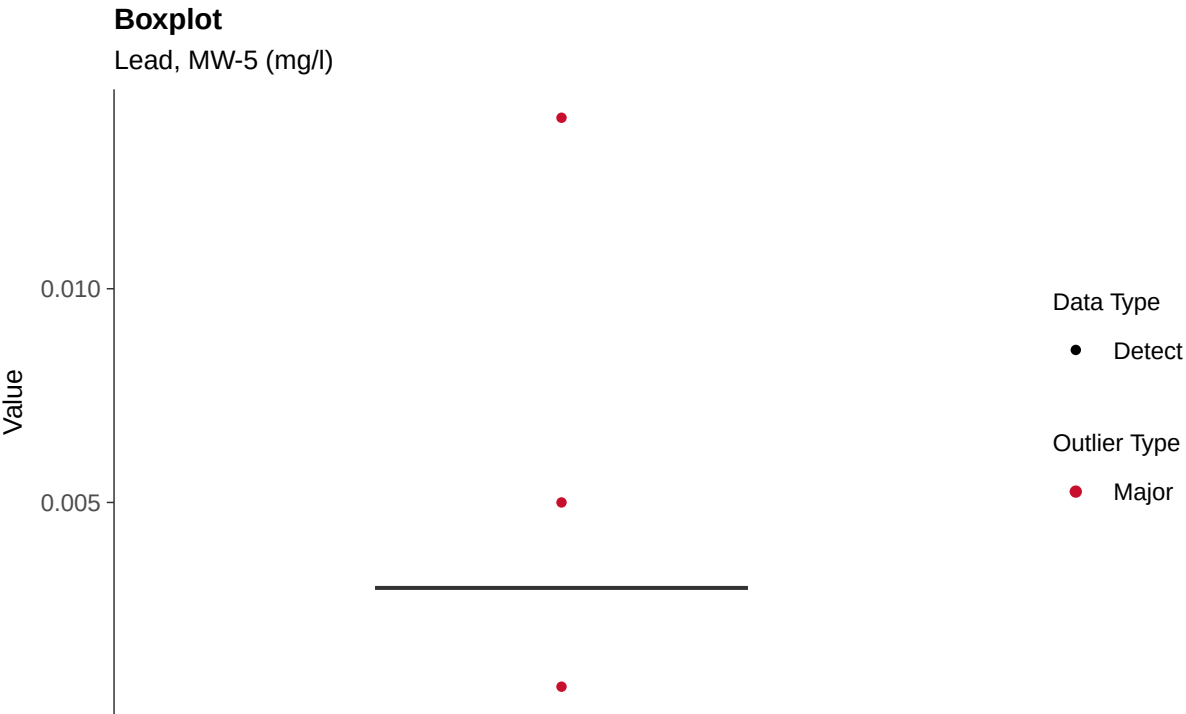




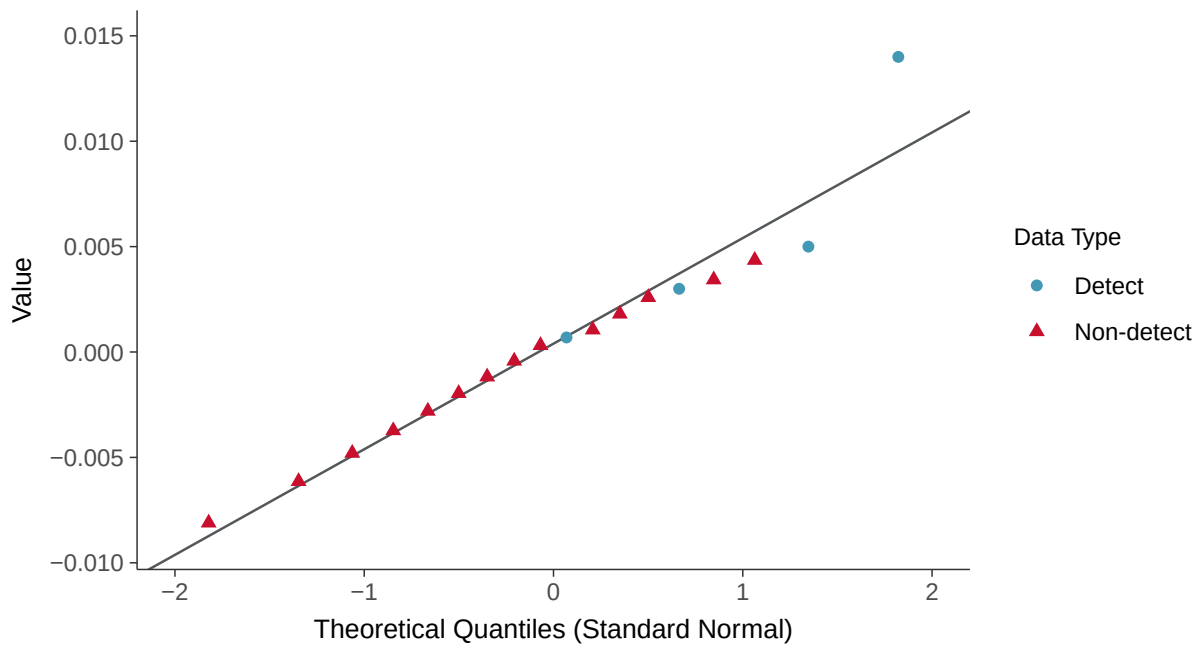
Appendix IV: Lead, MW-5

ID: 13_3_115

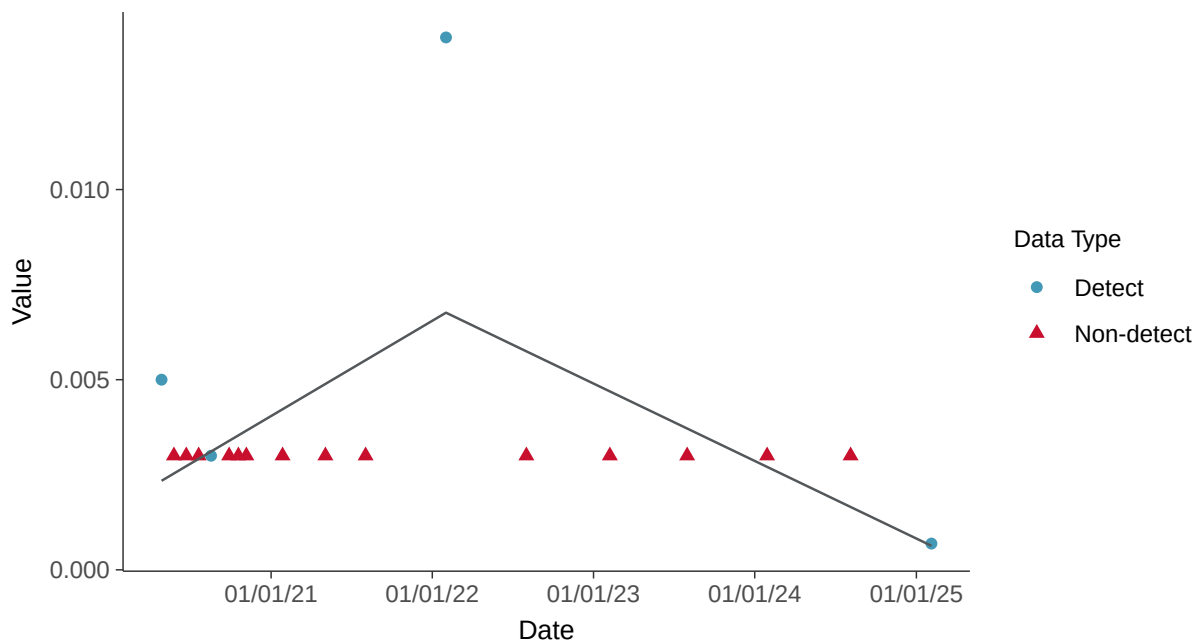




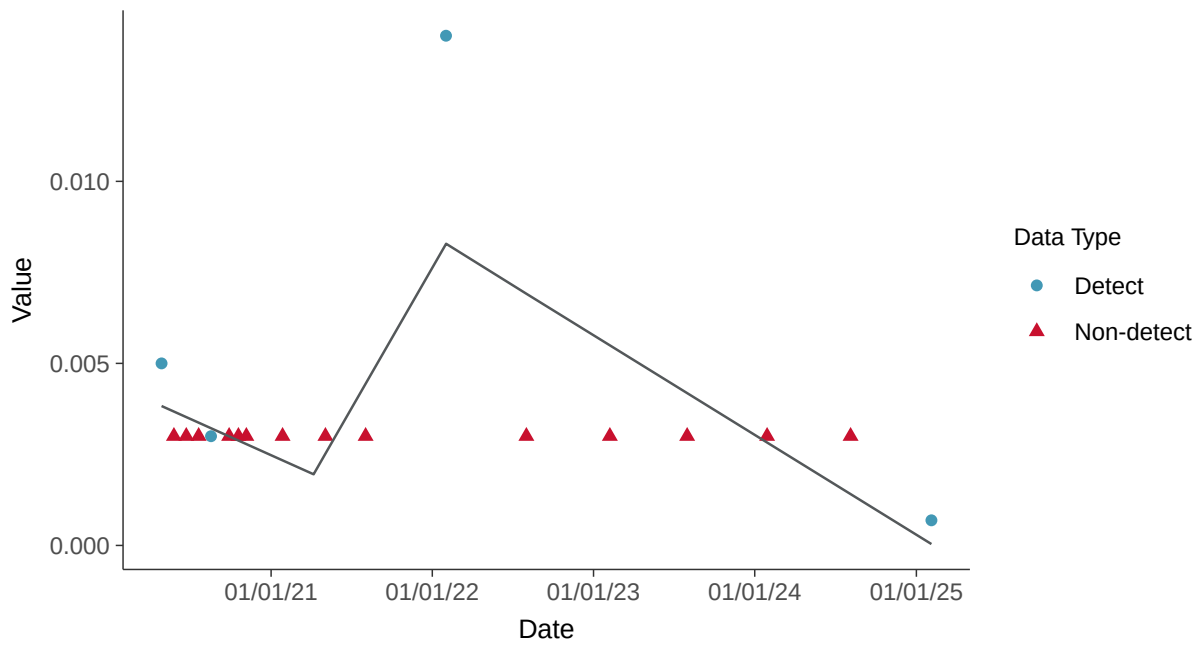
Lead, MW-5 (mg/l)



Lead, MW-5 (mg/l)



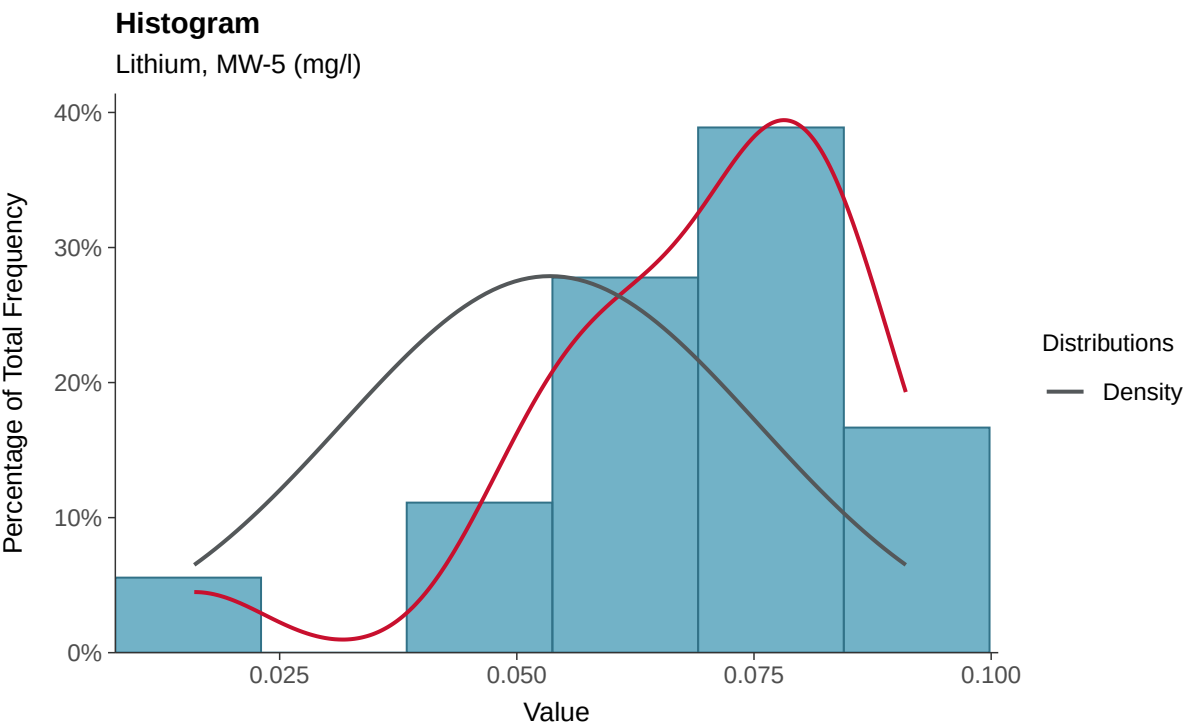
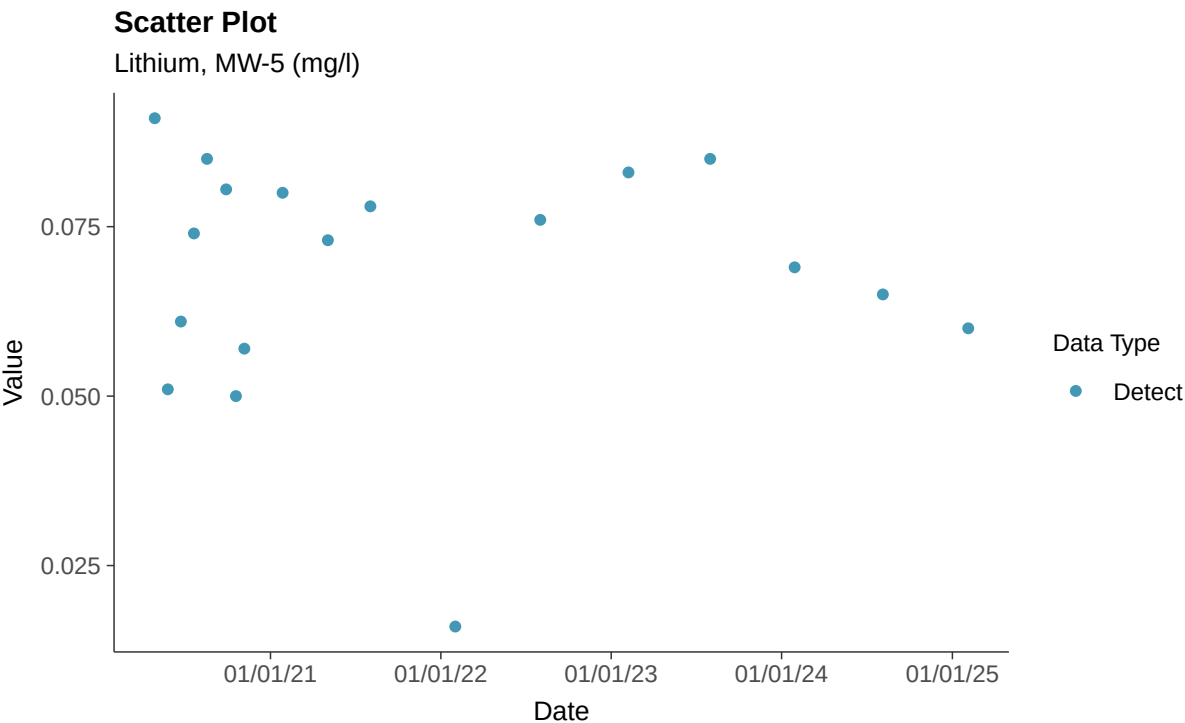
Lead, MW-5 (mg/l)

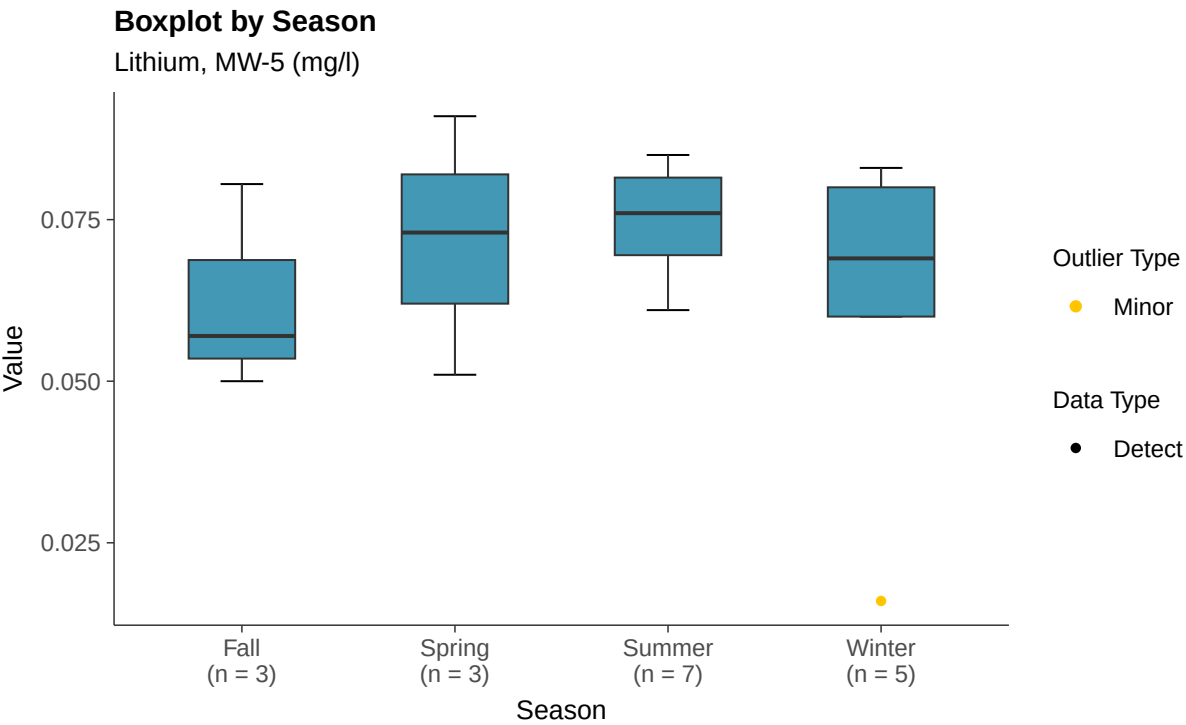
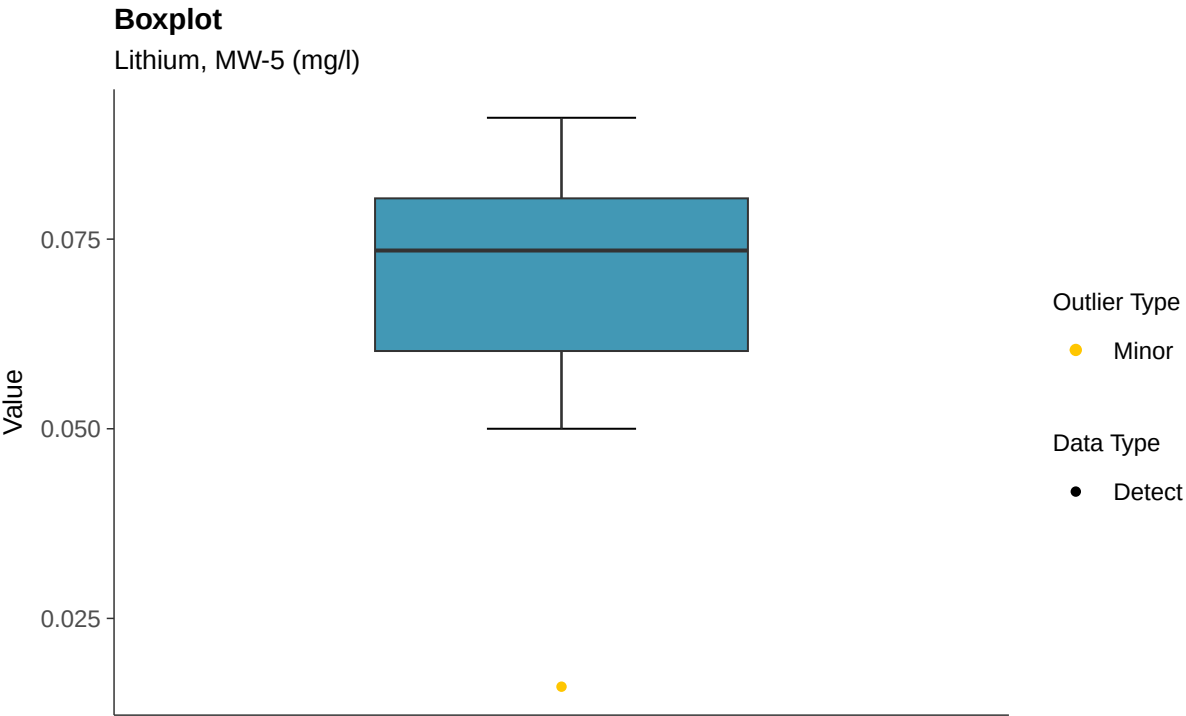


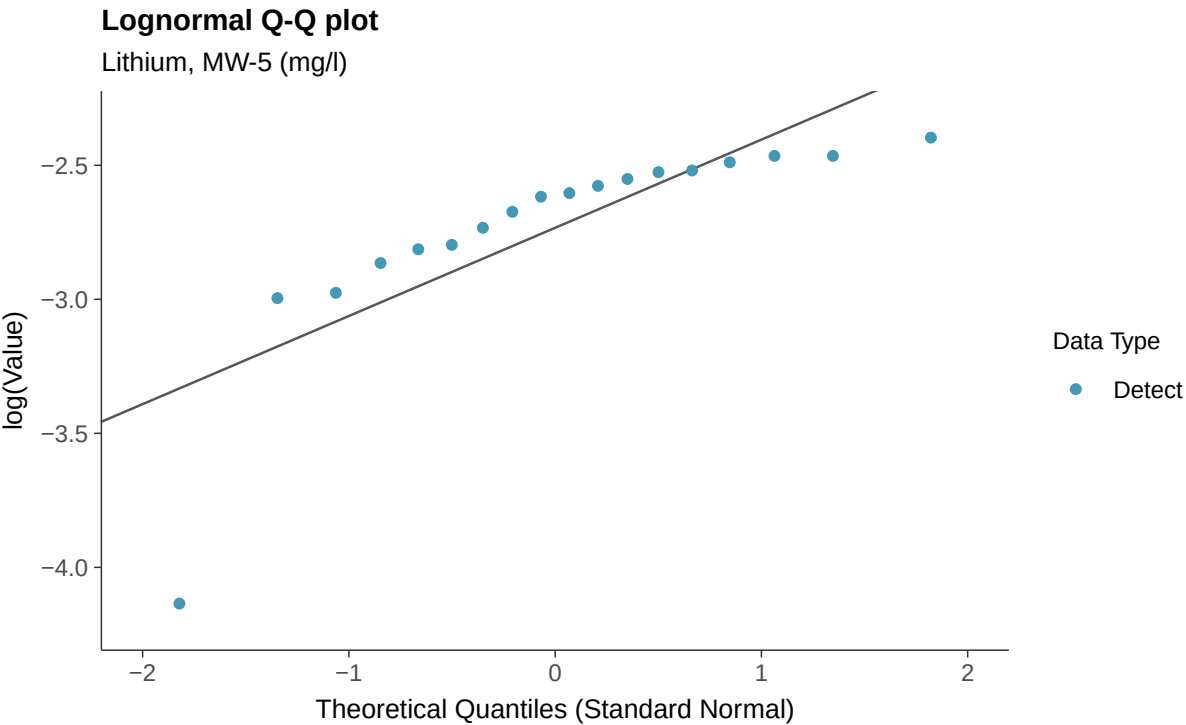
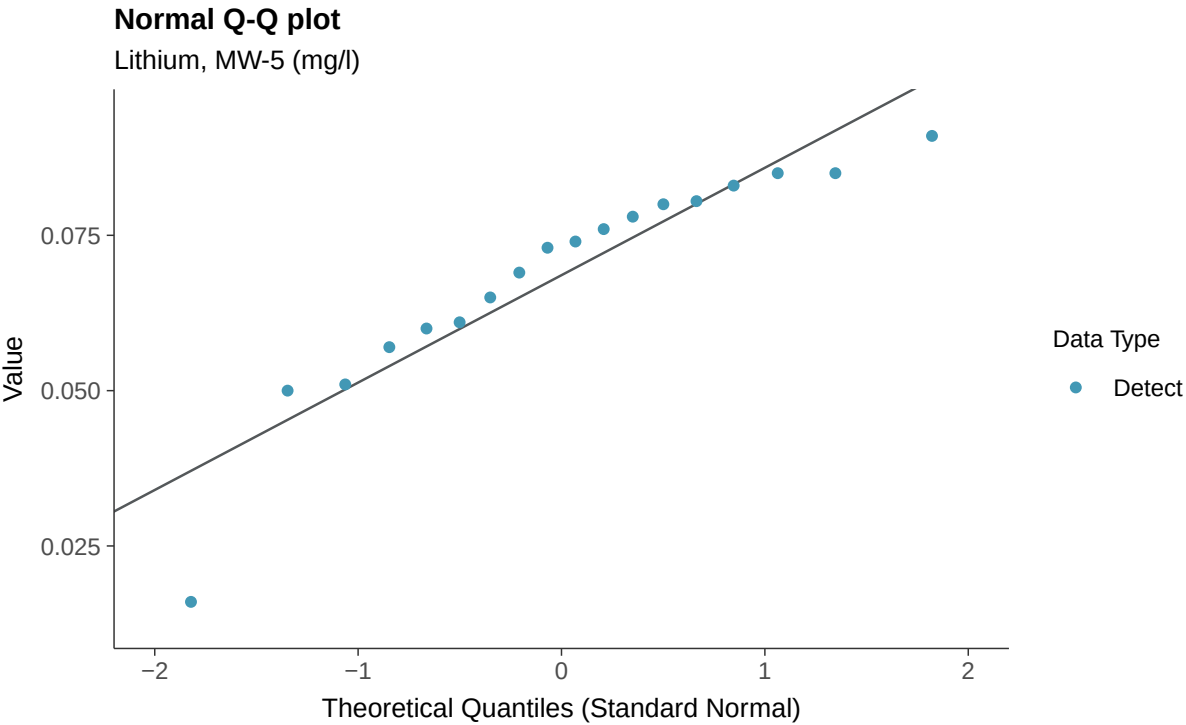


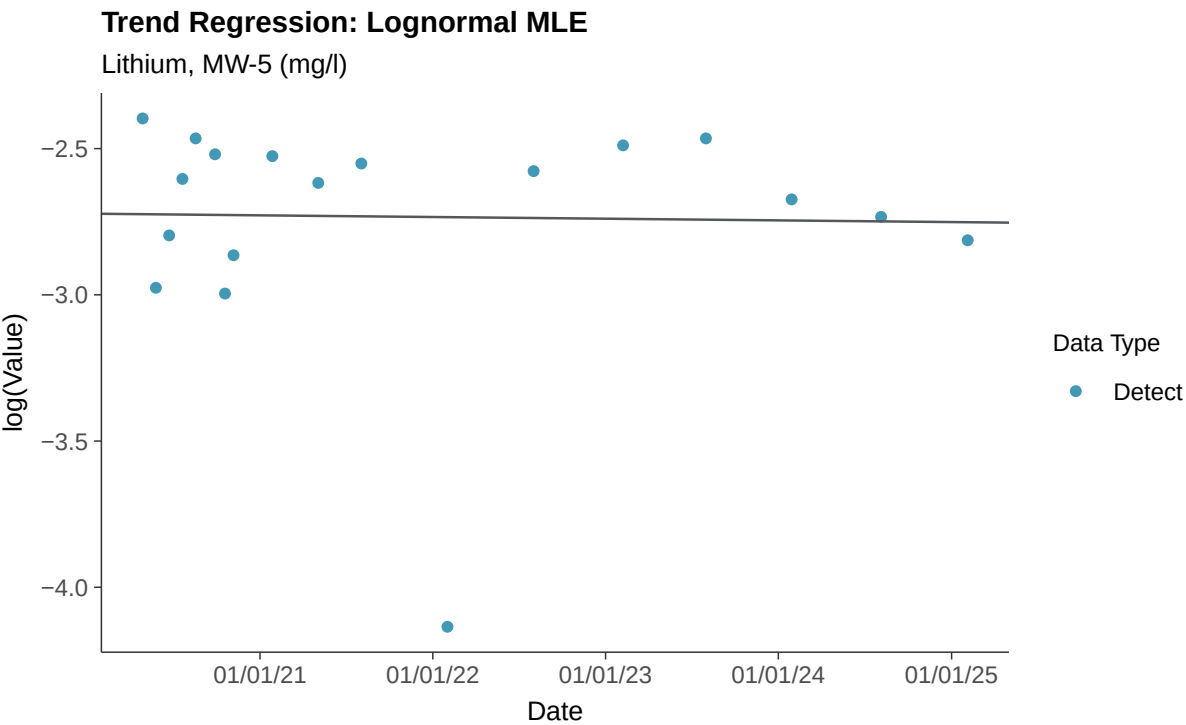
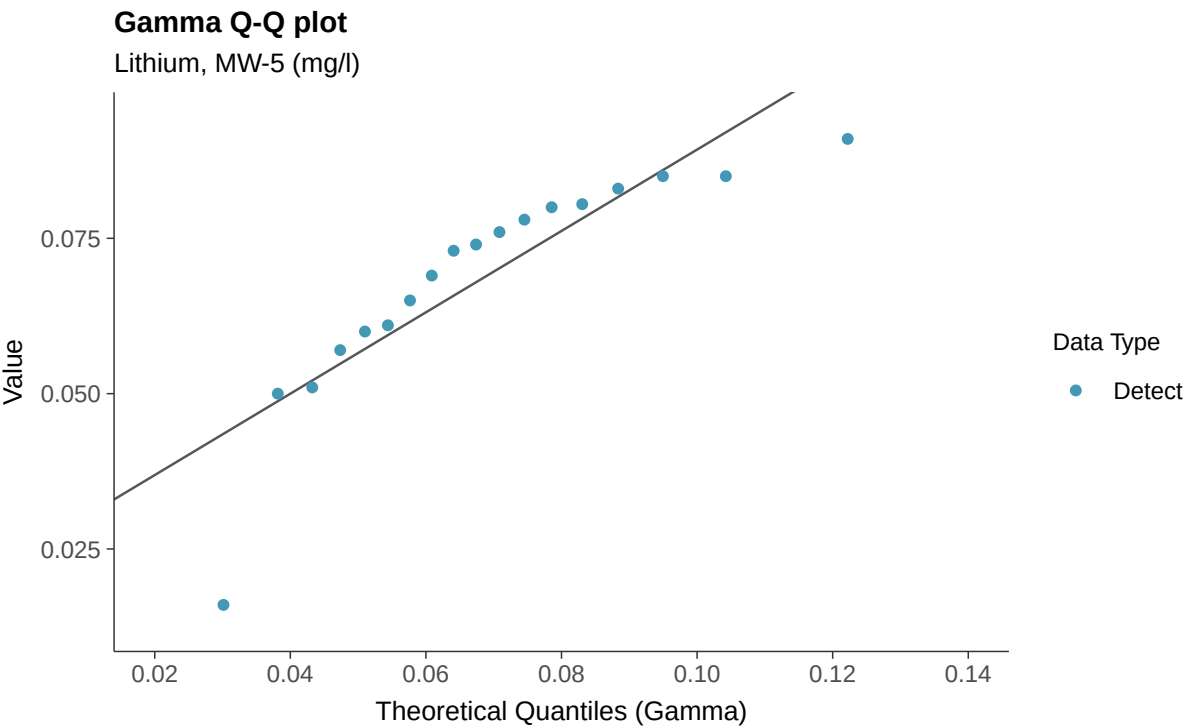
Appendix IV: Lithium, MW-5

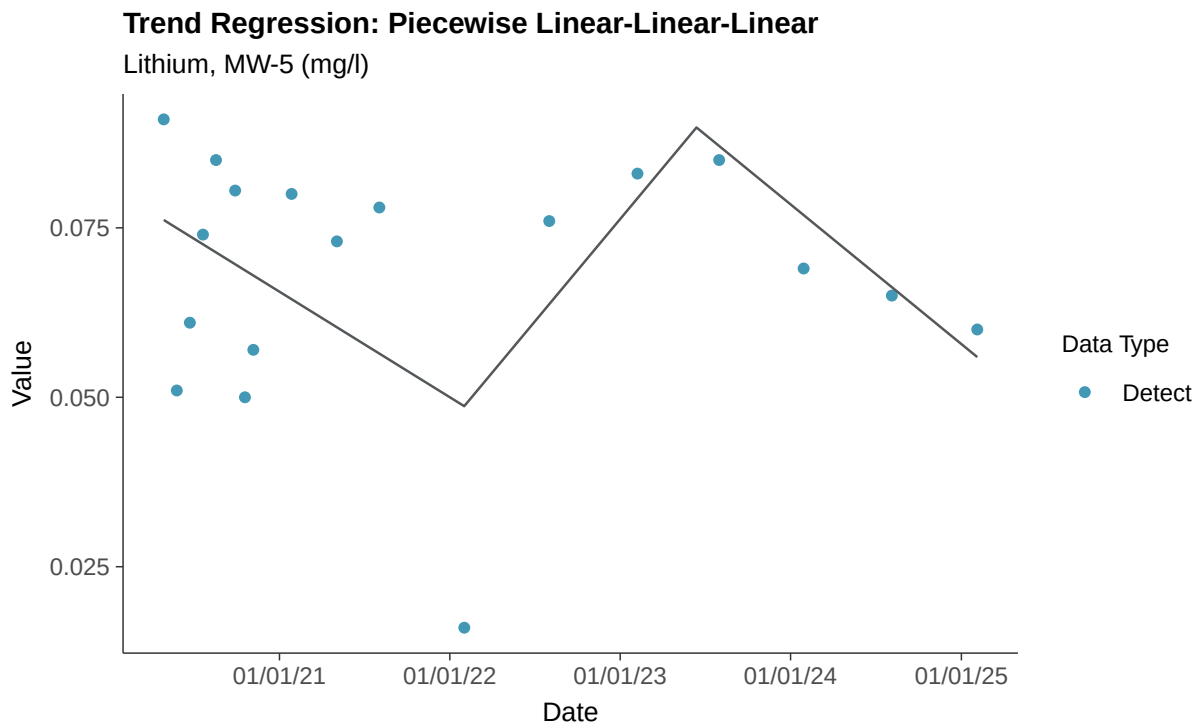
ID: 13_3_116

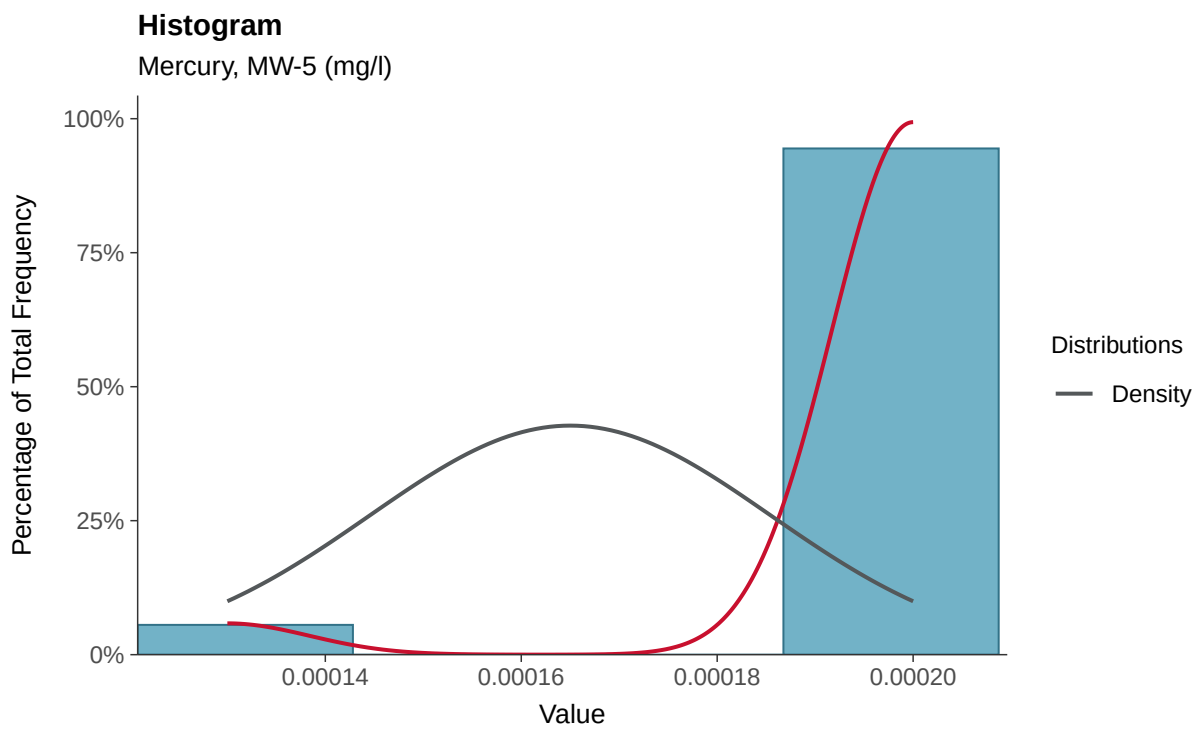


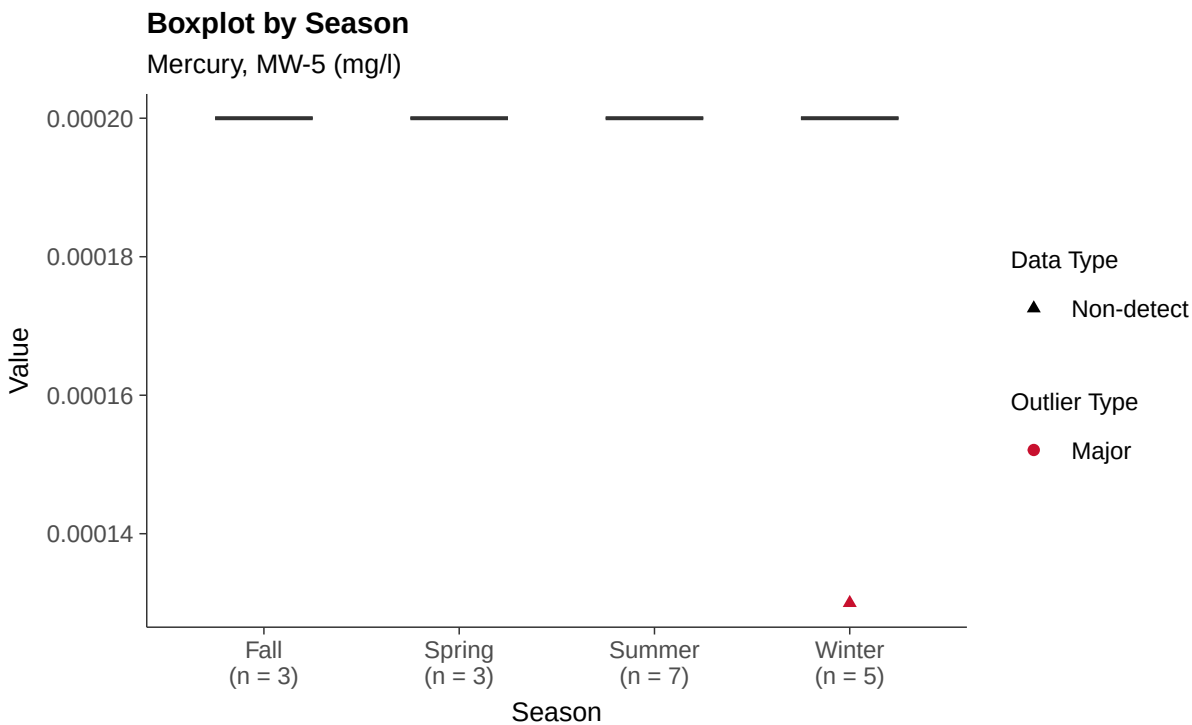
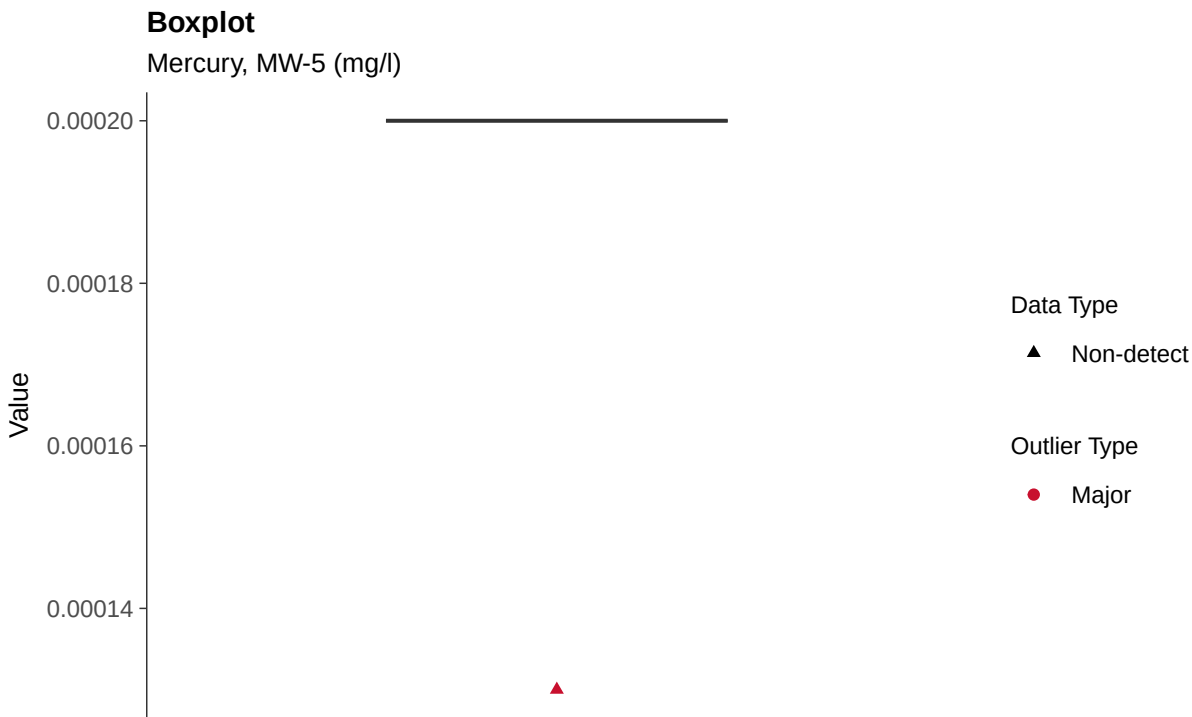








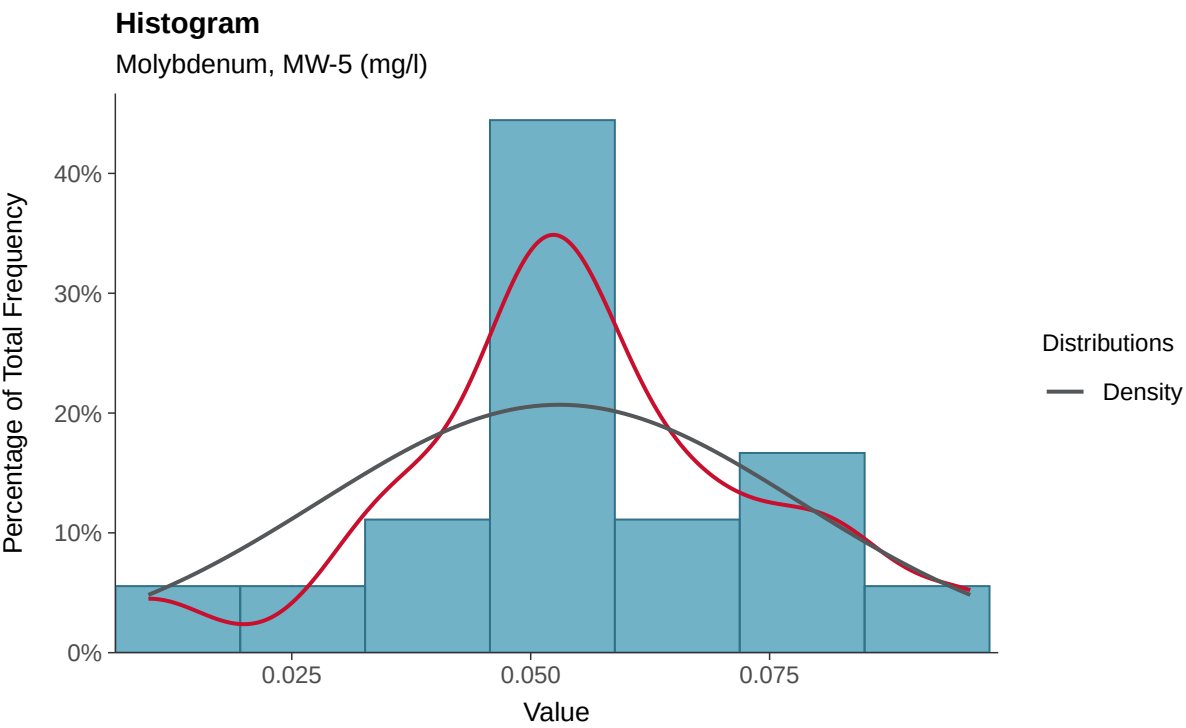
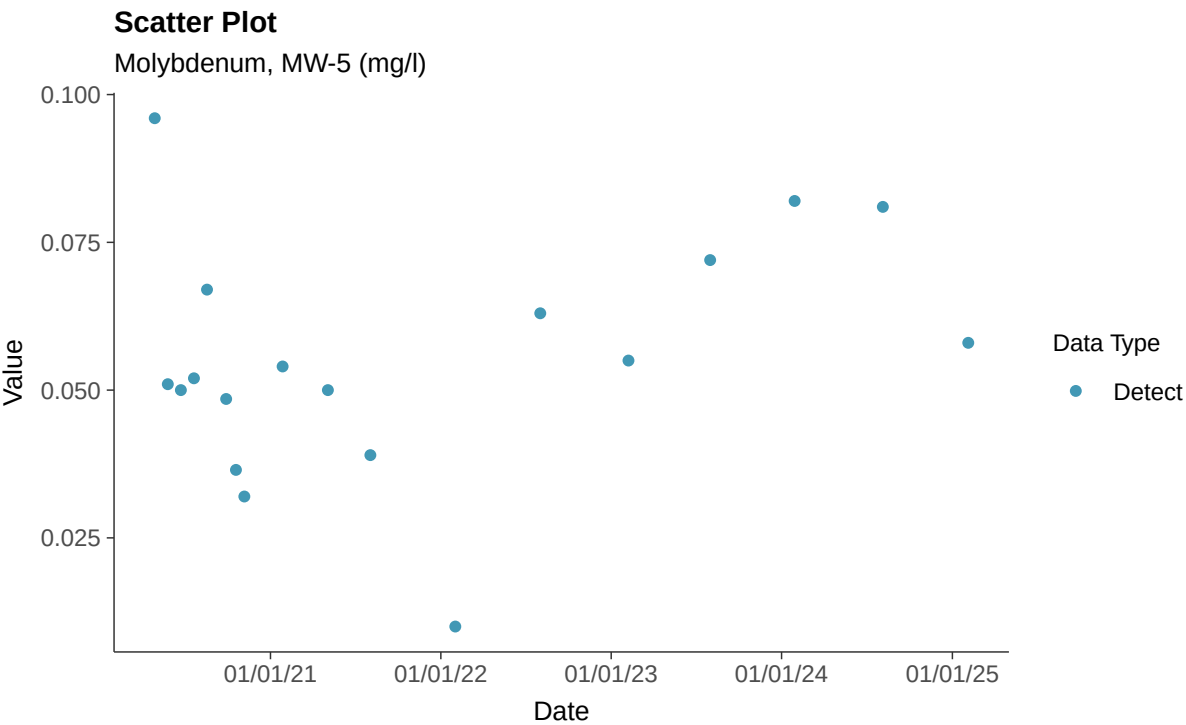


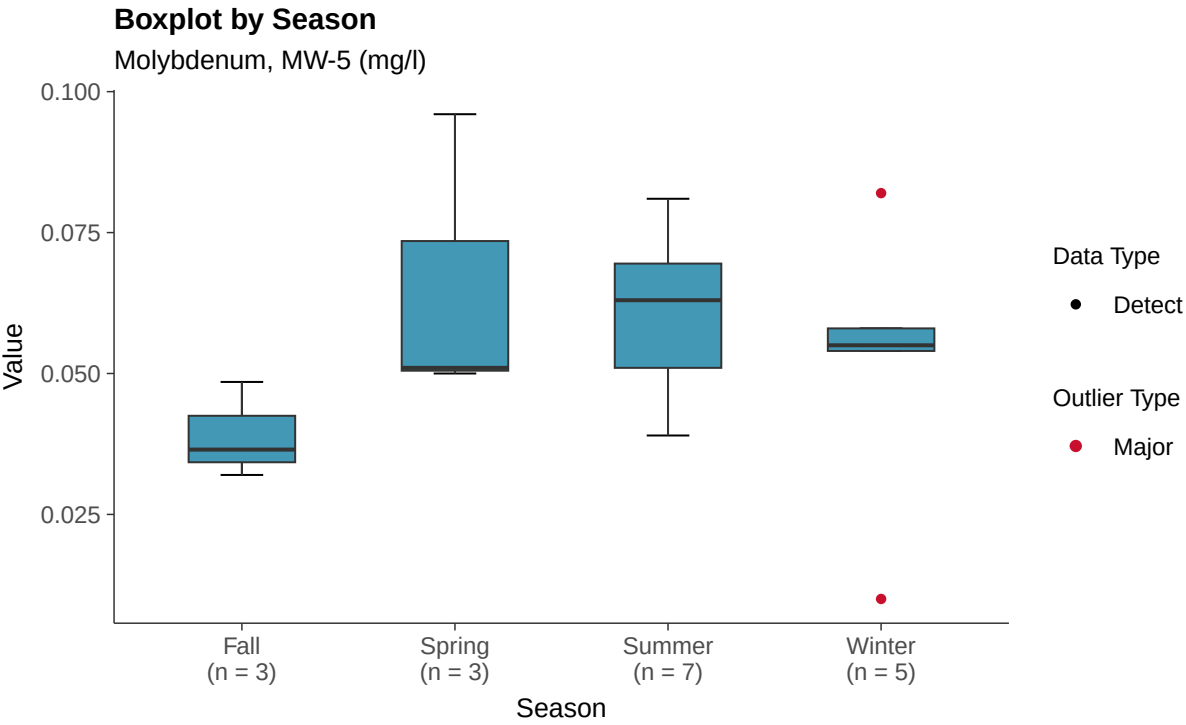
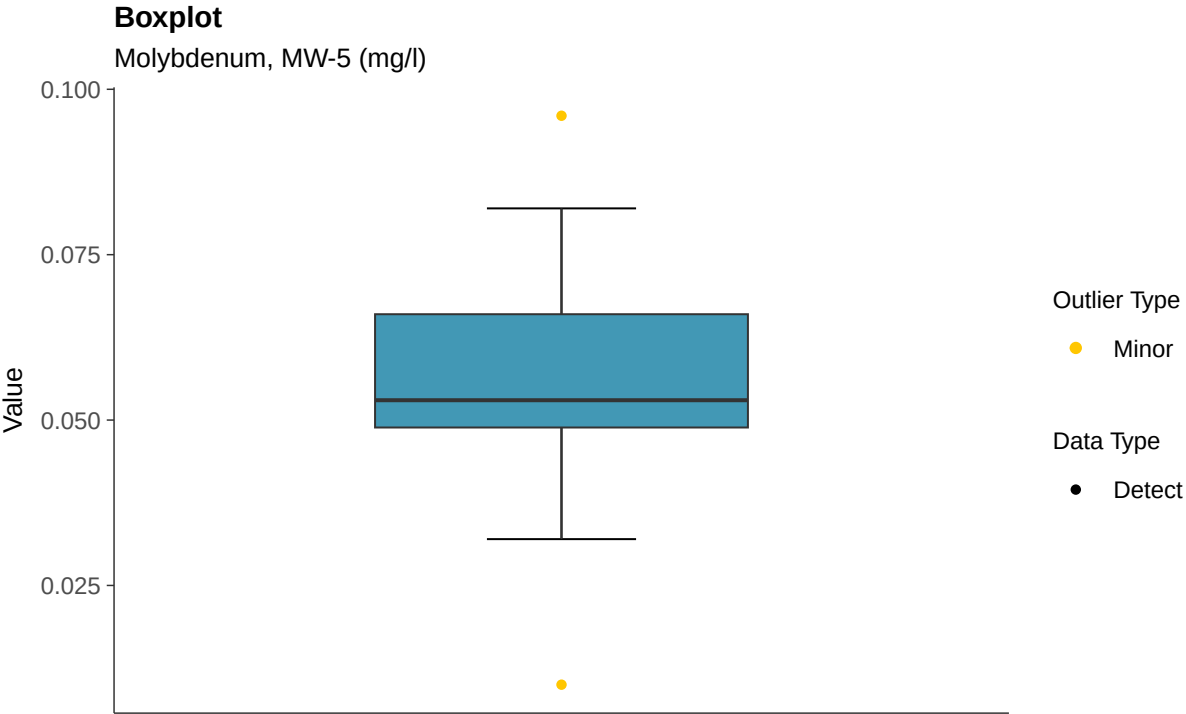


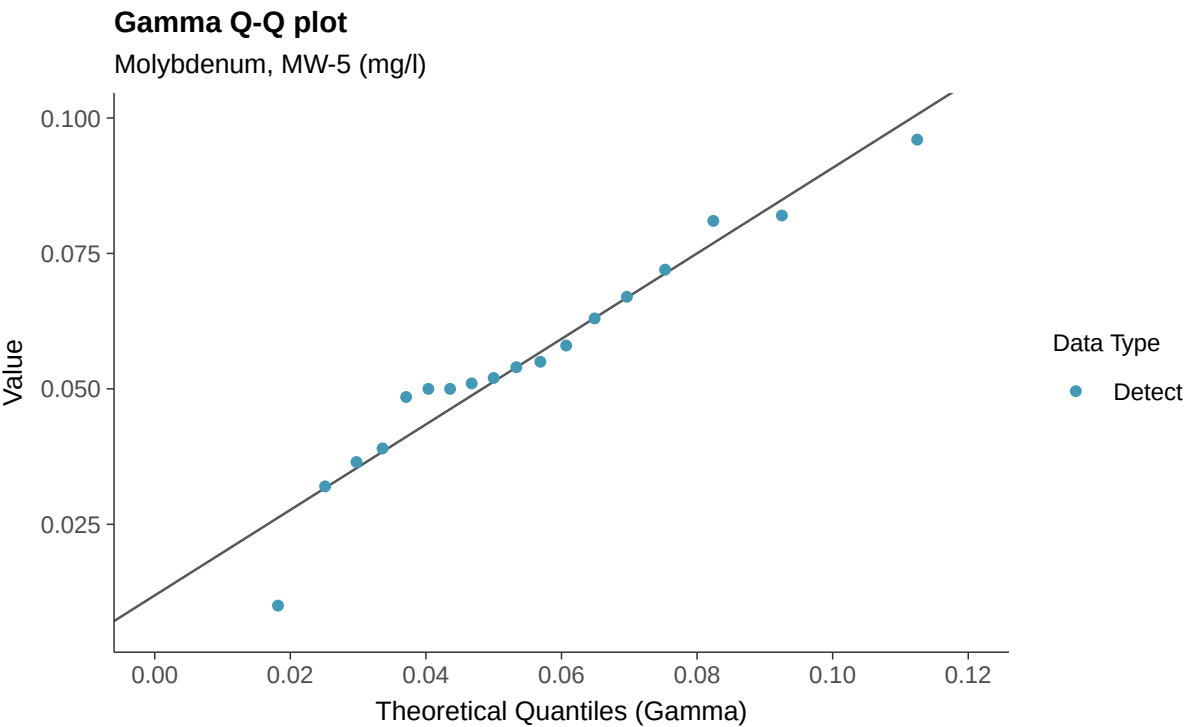
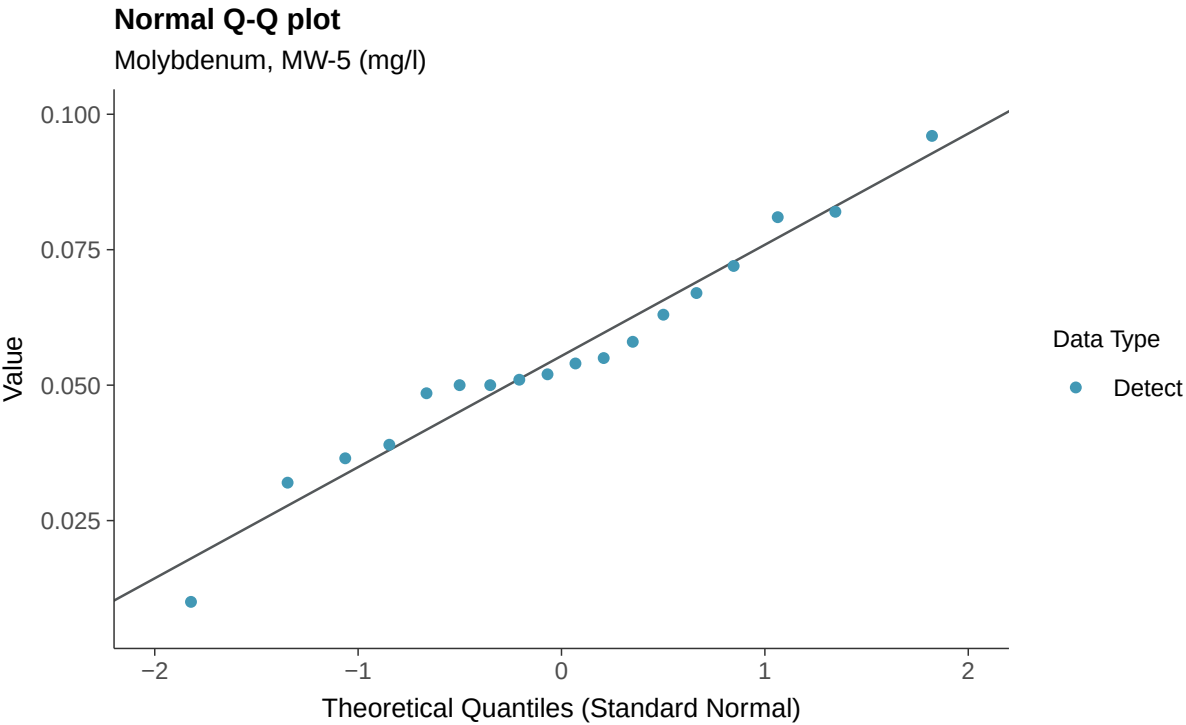


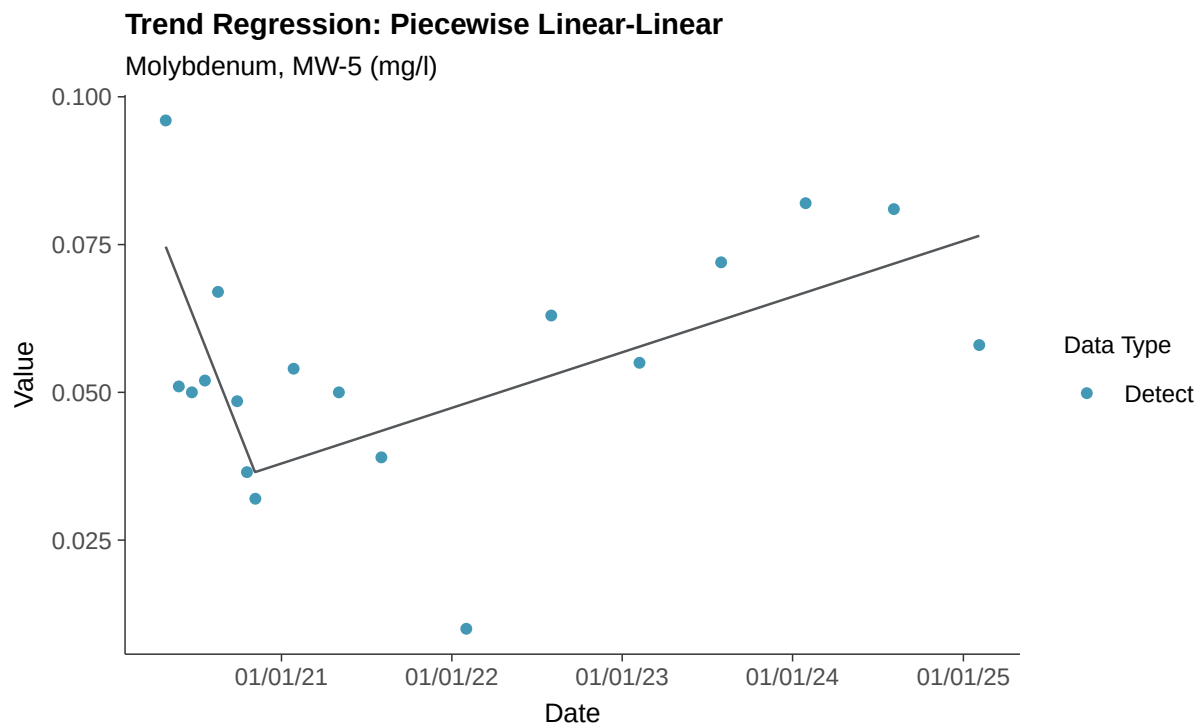
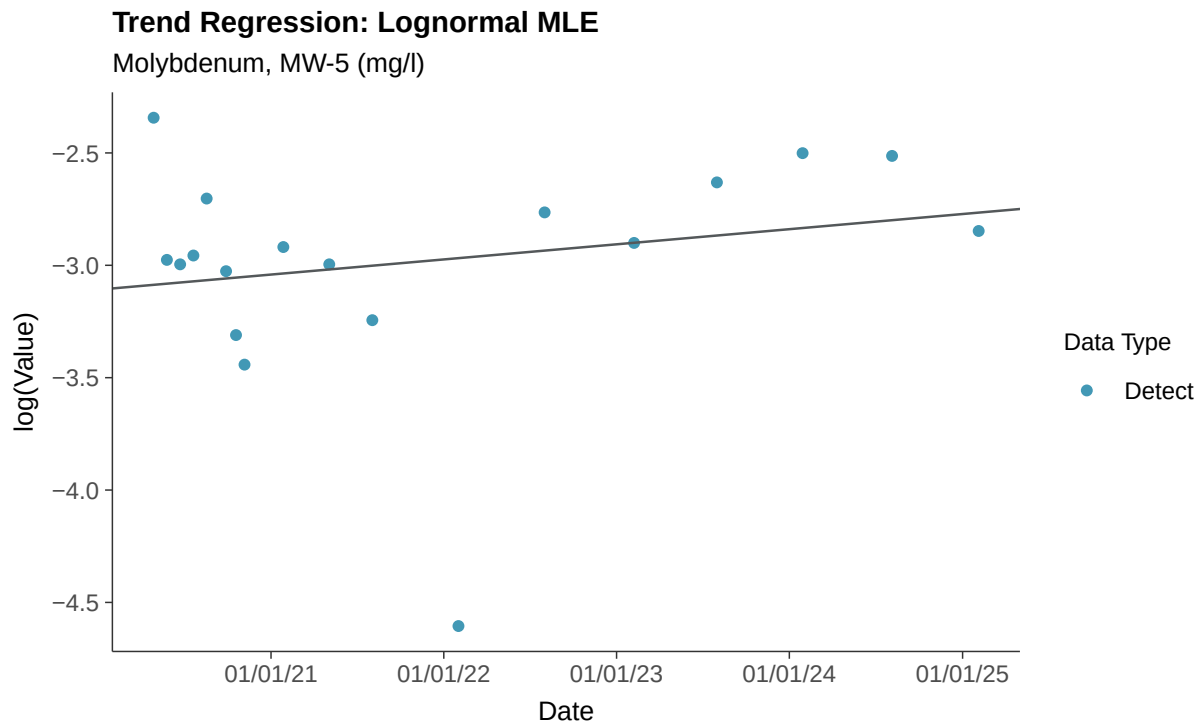
Appendix IV: Molybdenum, MW-5

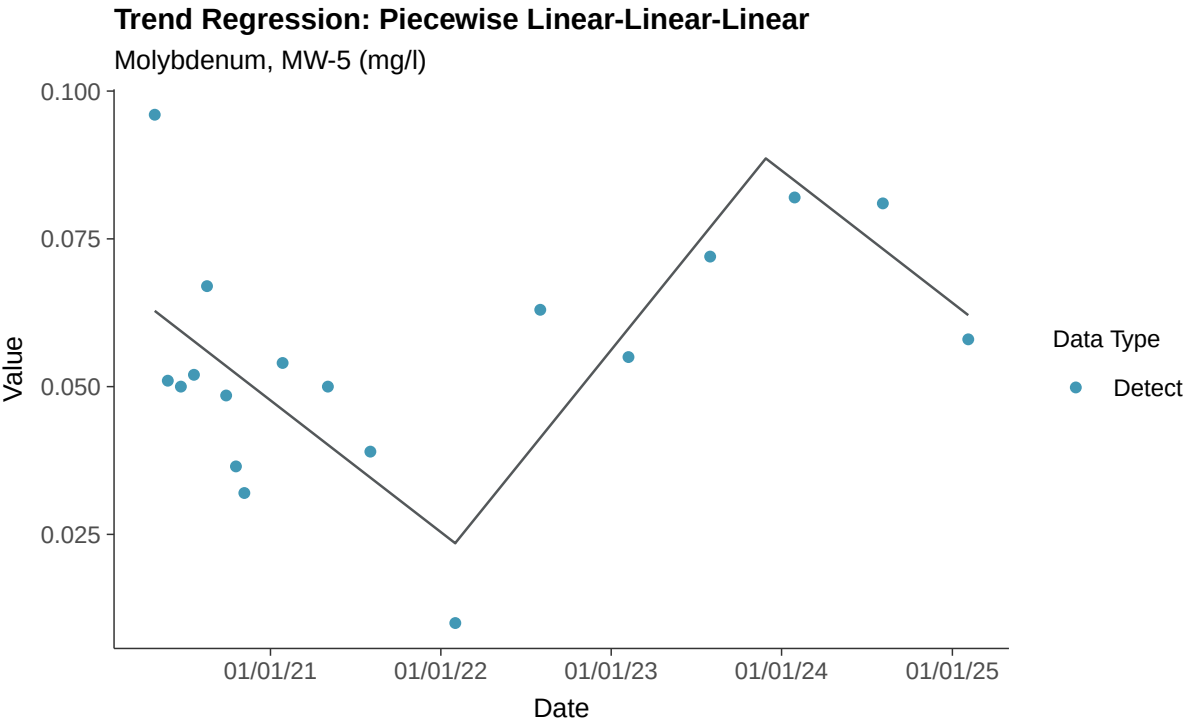
ID: 13_3_118







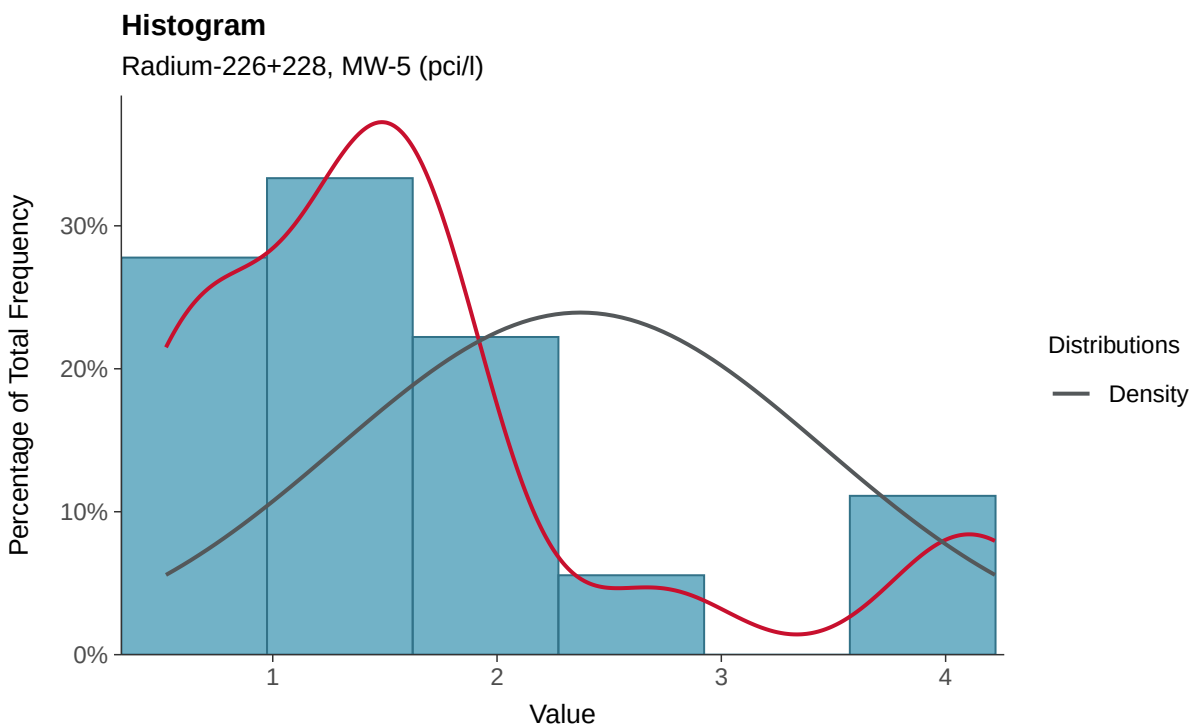
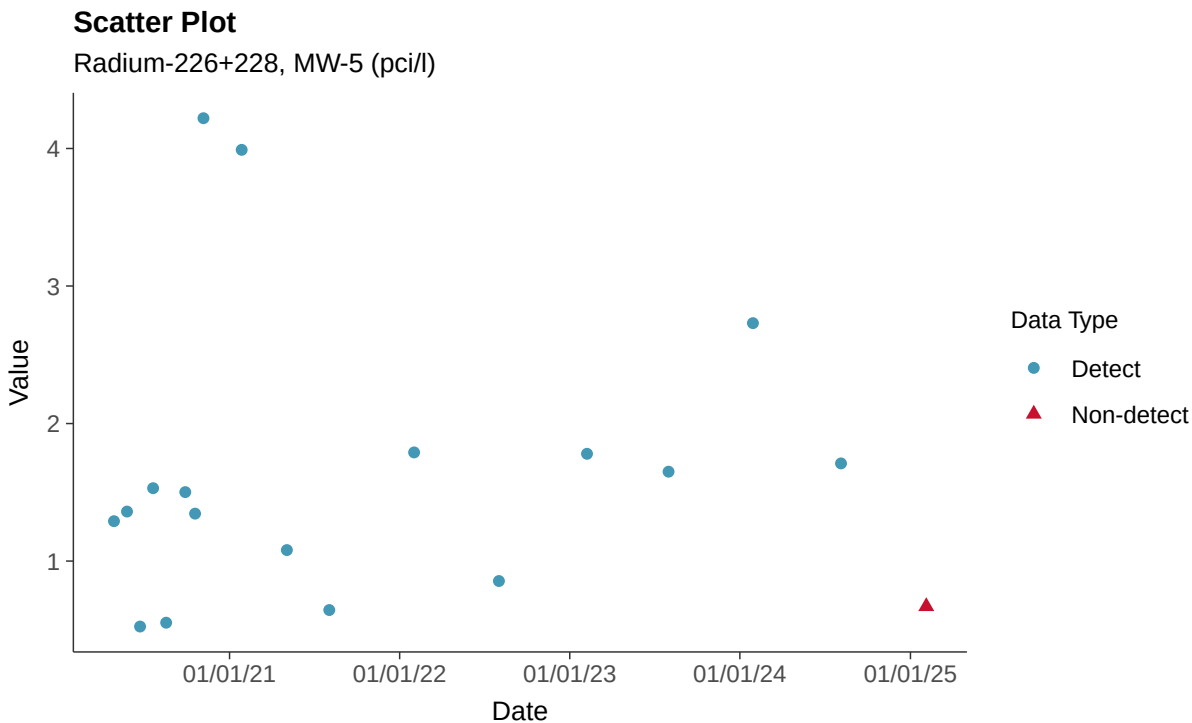






Appendix IV: Radium-226+228, MW-5

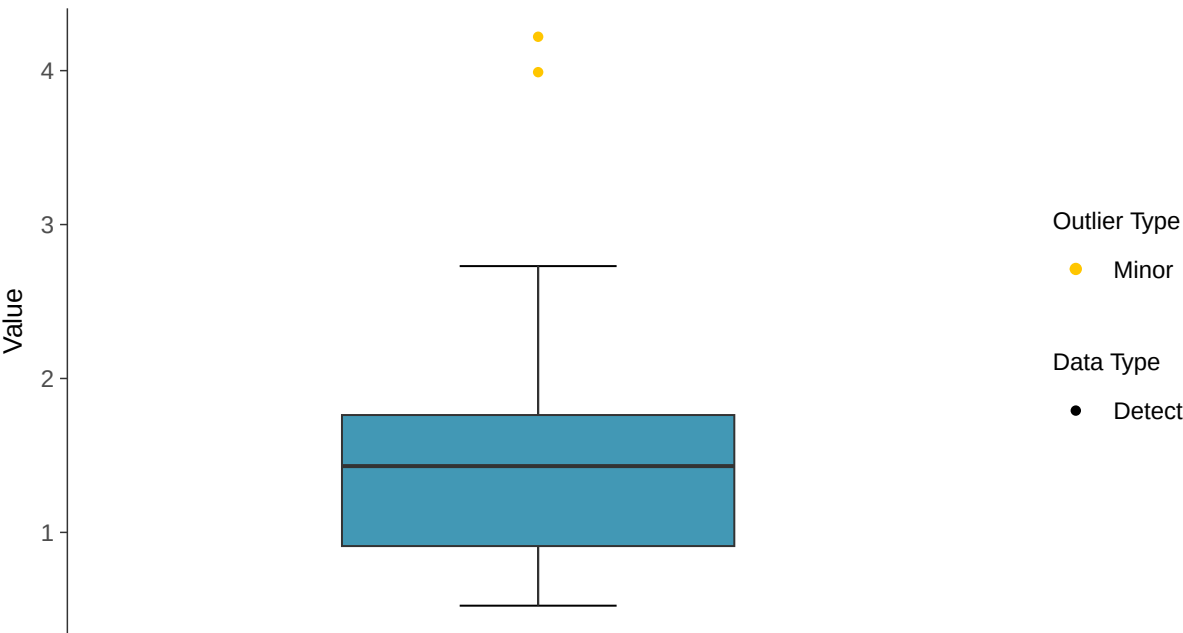
ID: 13_3_121





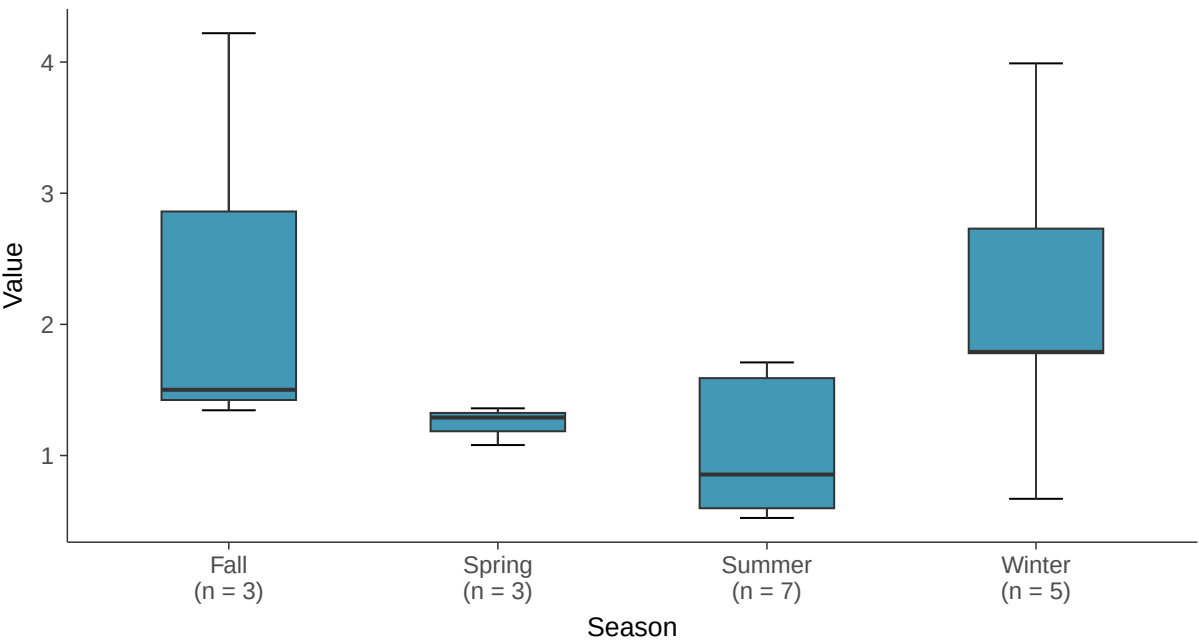
Boxplot

Radium-226+228, MW-5 (pci/l)



Boxplot by Season

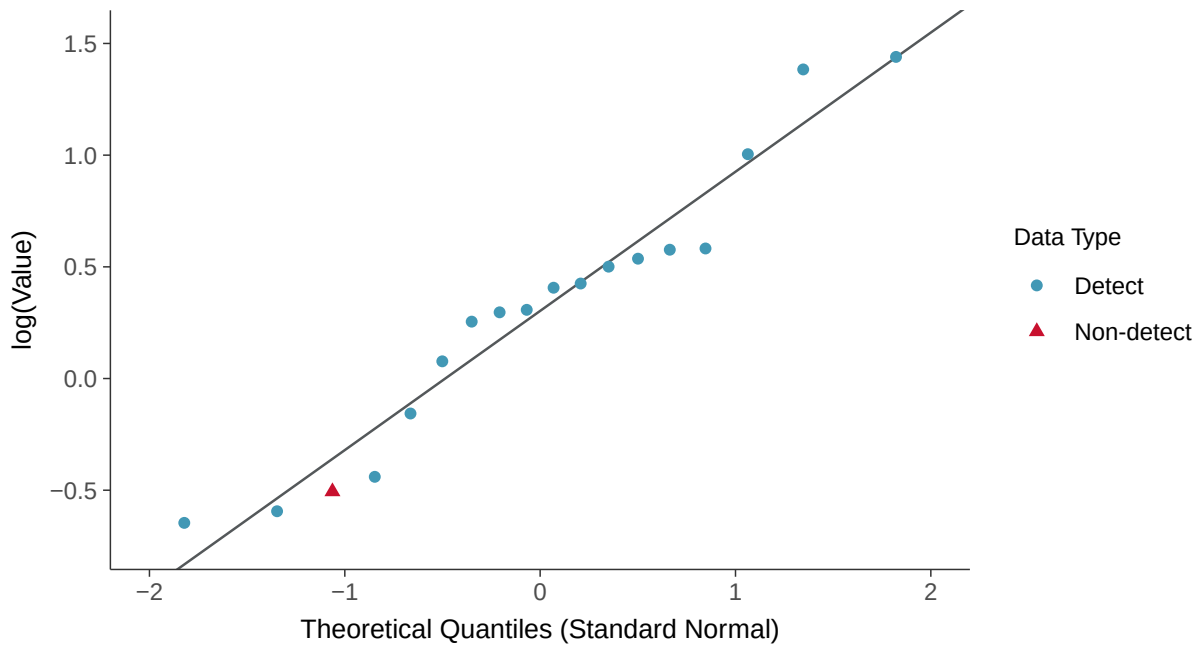
Radium-226+228, MW-5 (pci/l)





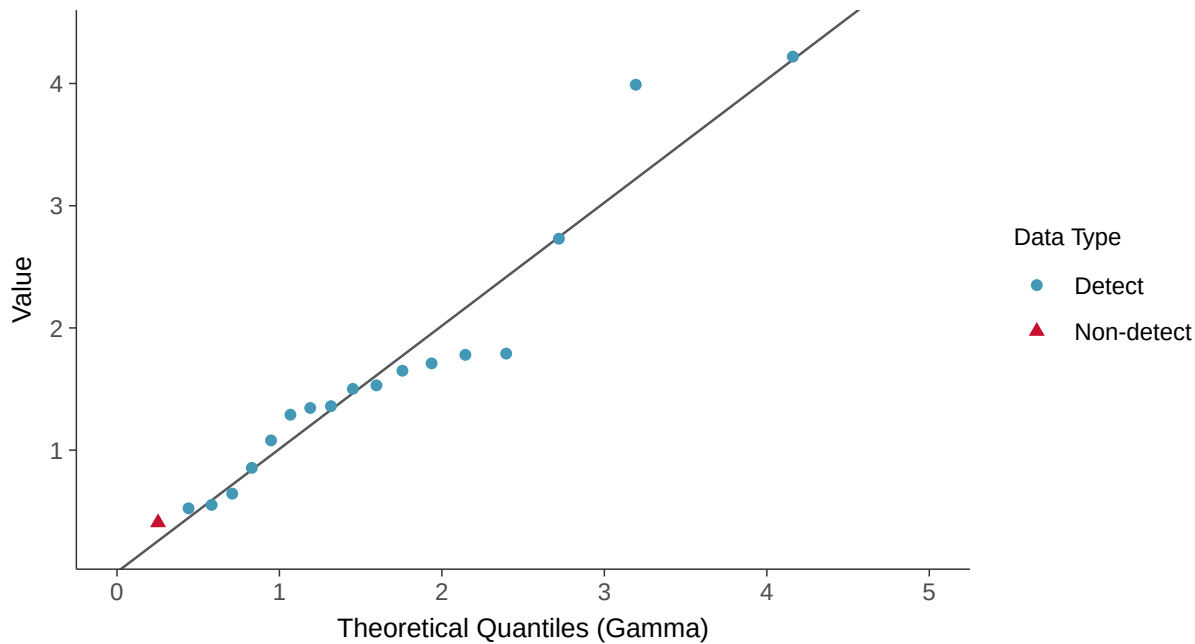
Lognormal Q-Q plot using ROS Imputed Estimates

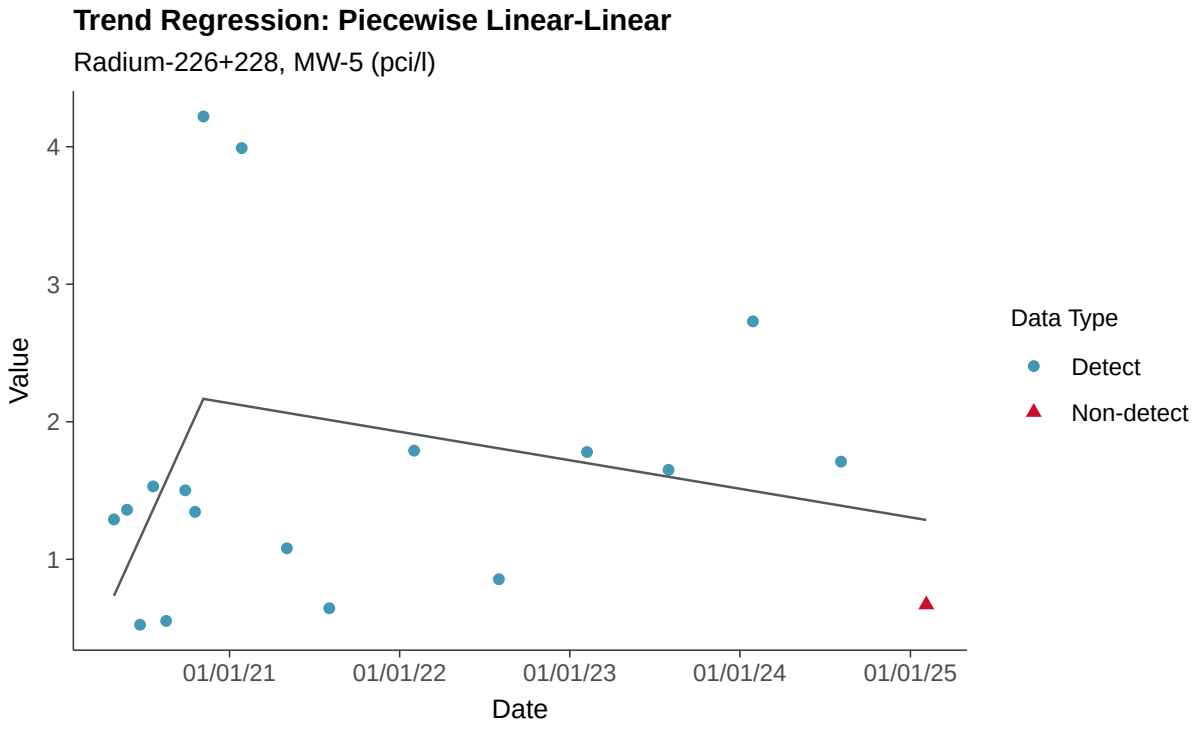
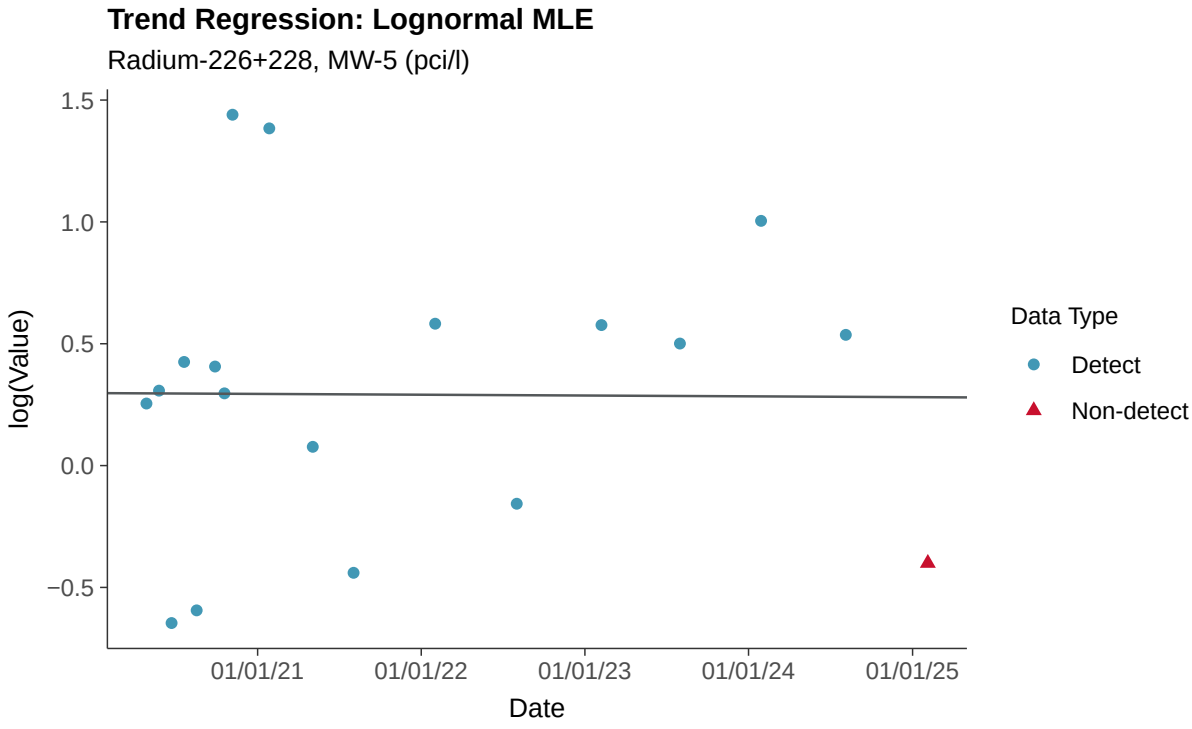
Radium-226+228, MW-5 (pci/l)

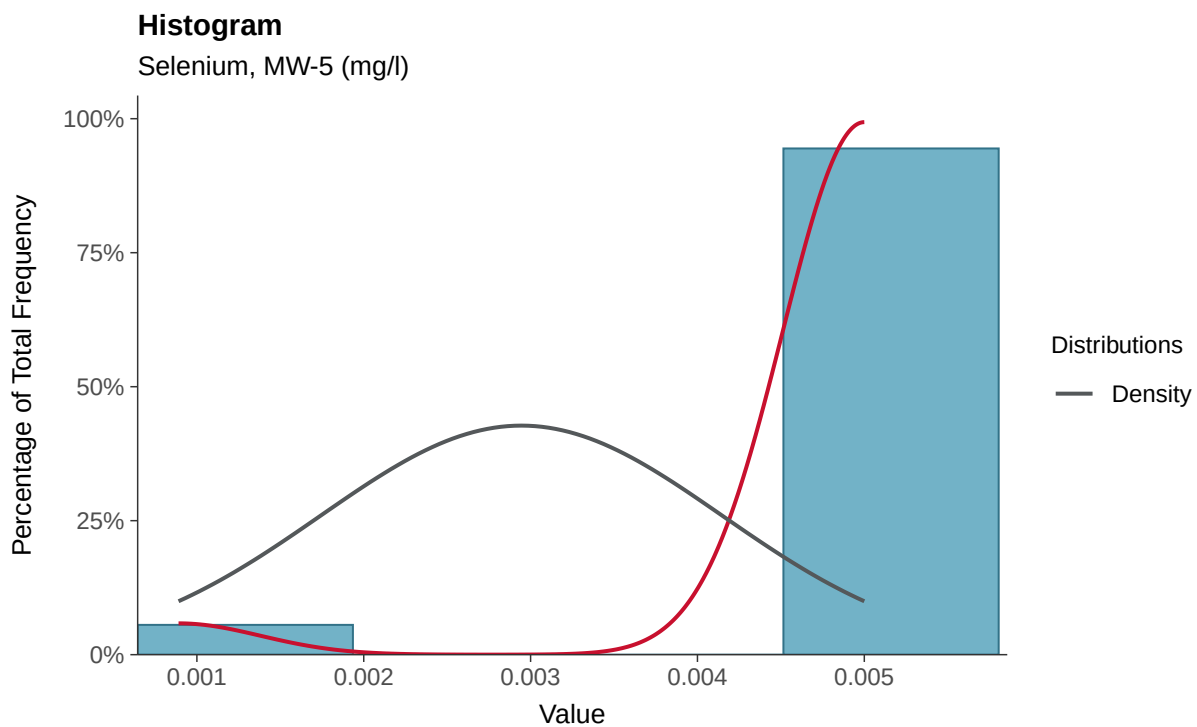


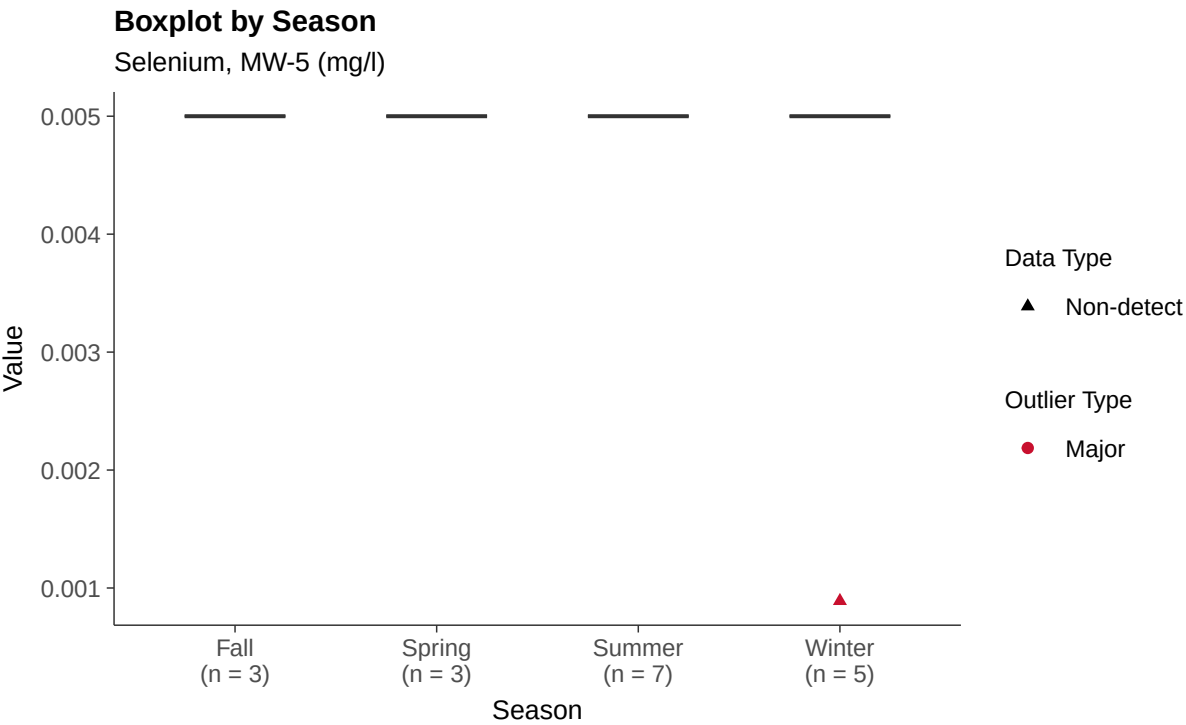
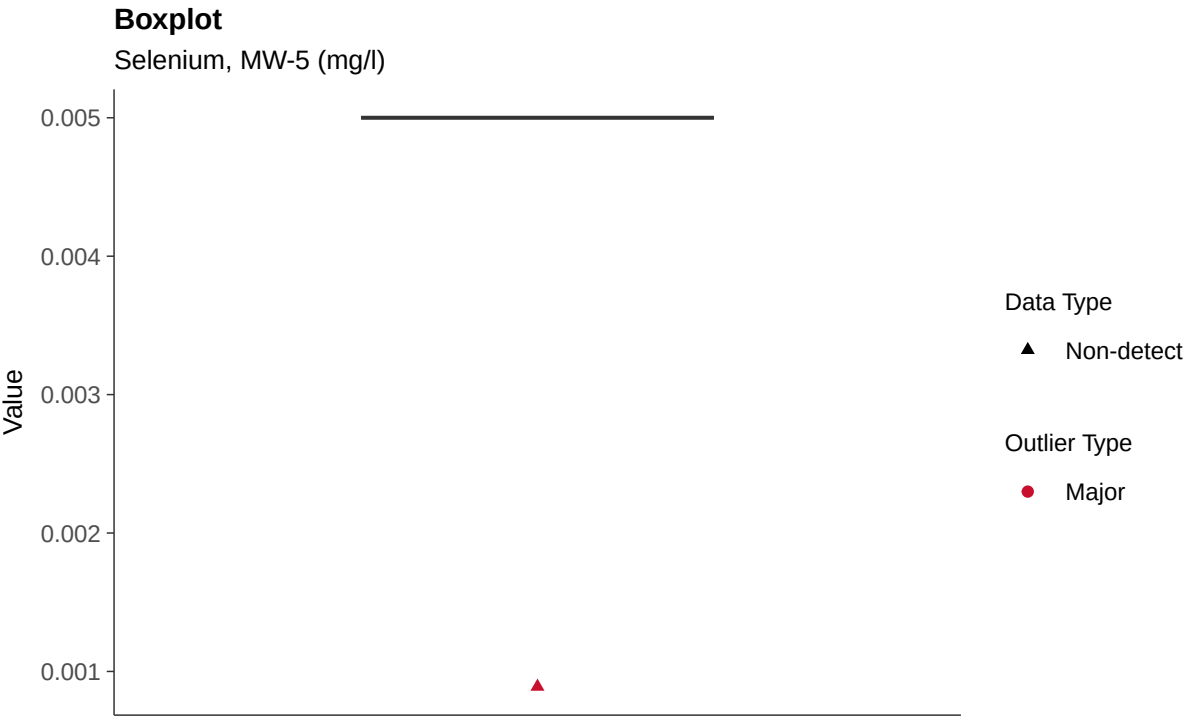
Gamma Q-Q plot using ROS Imputed Estimates

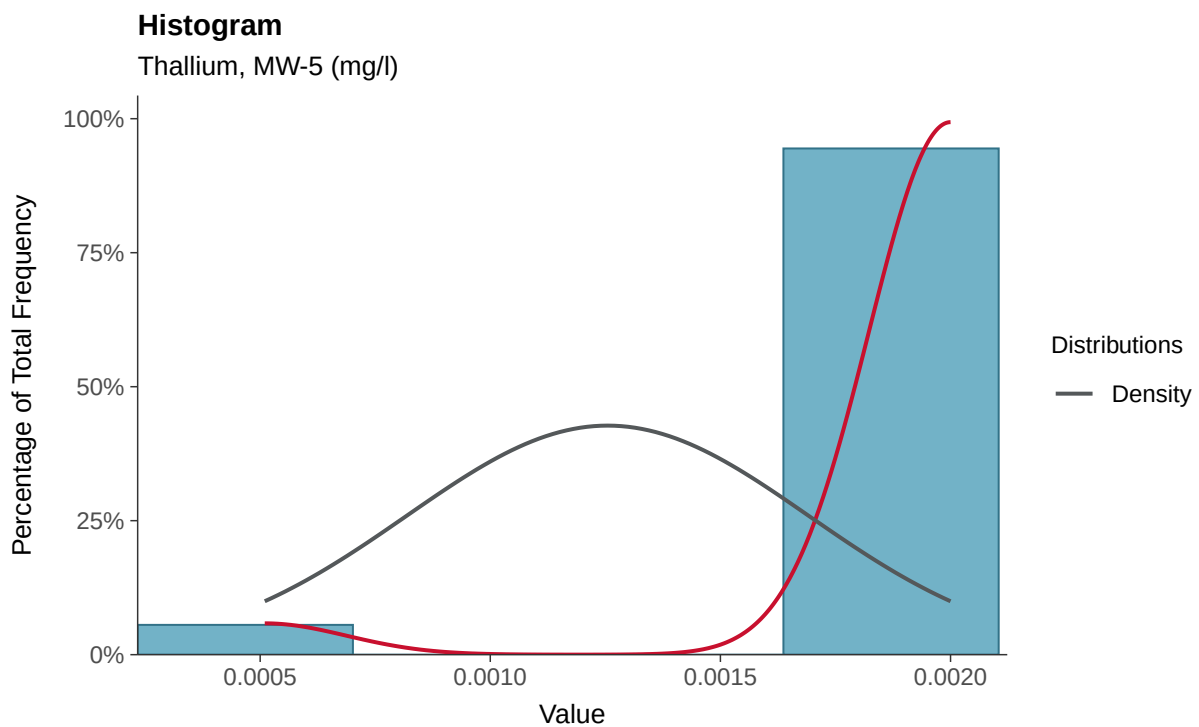
Radium-226+228, MW-5 (pci/l)

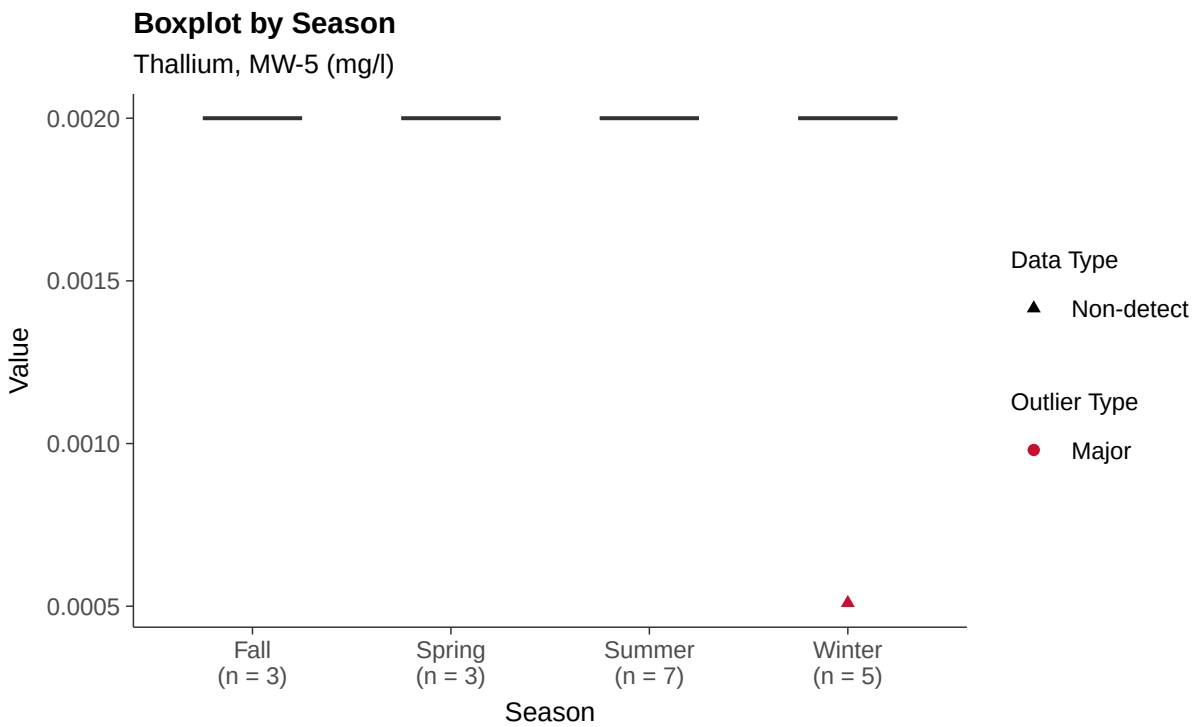
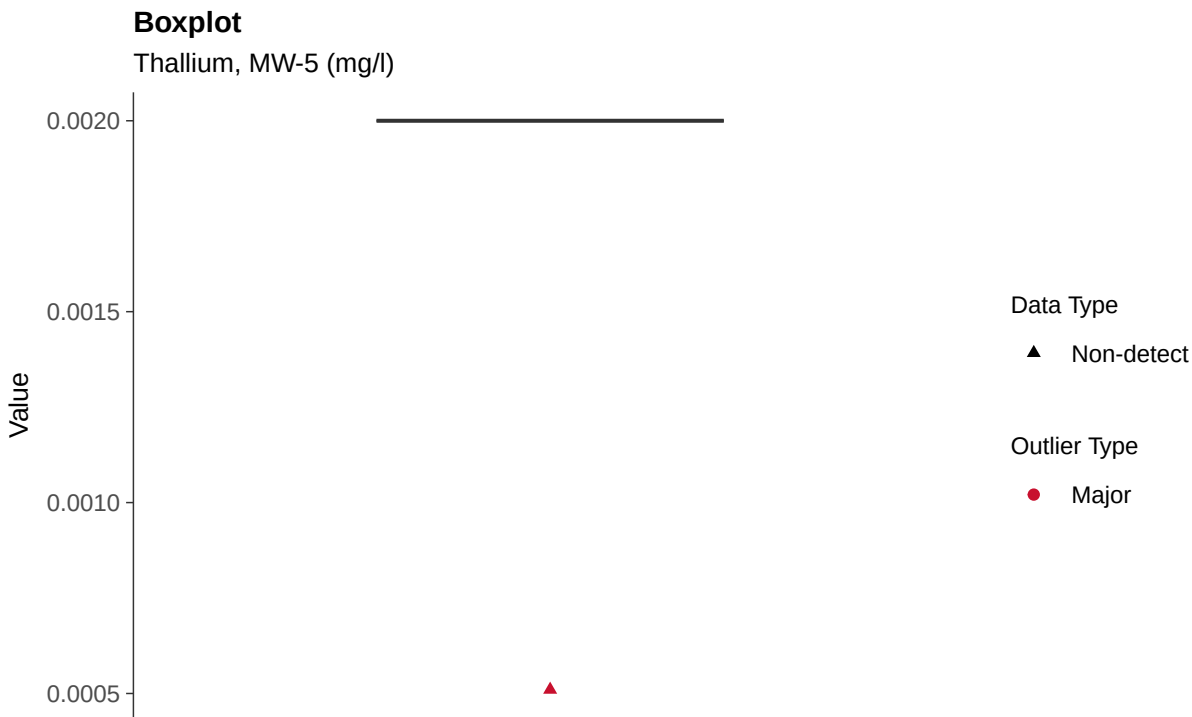








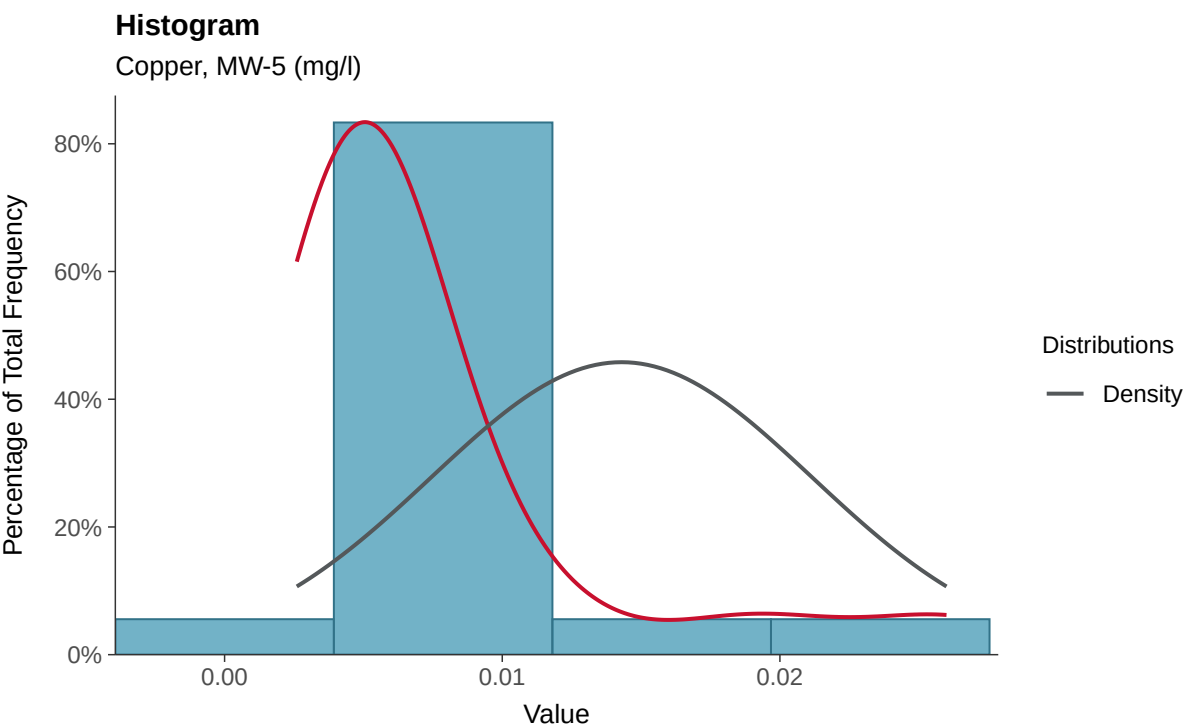
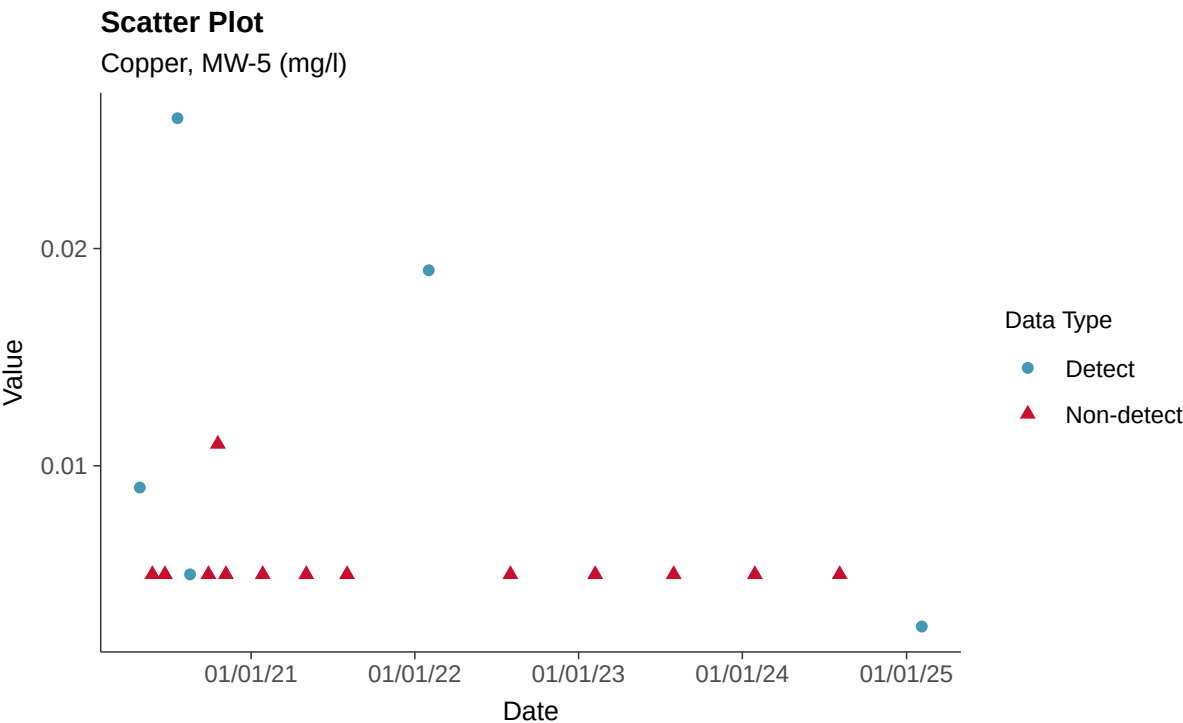


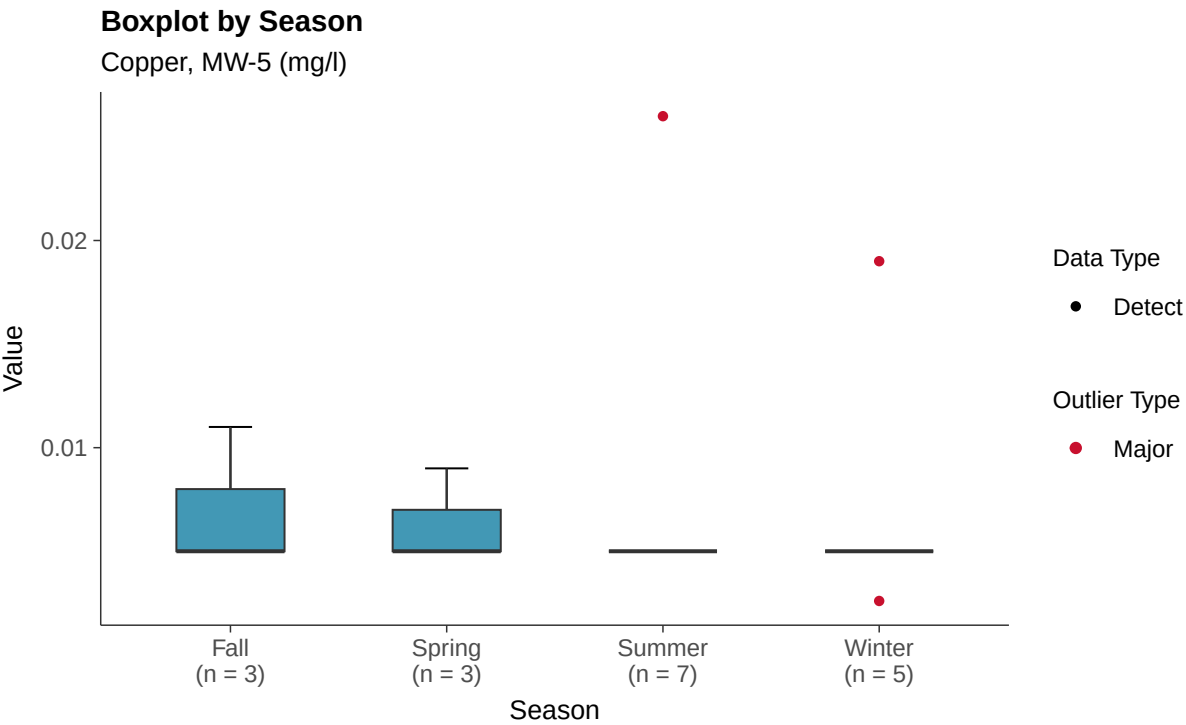
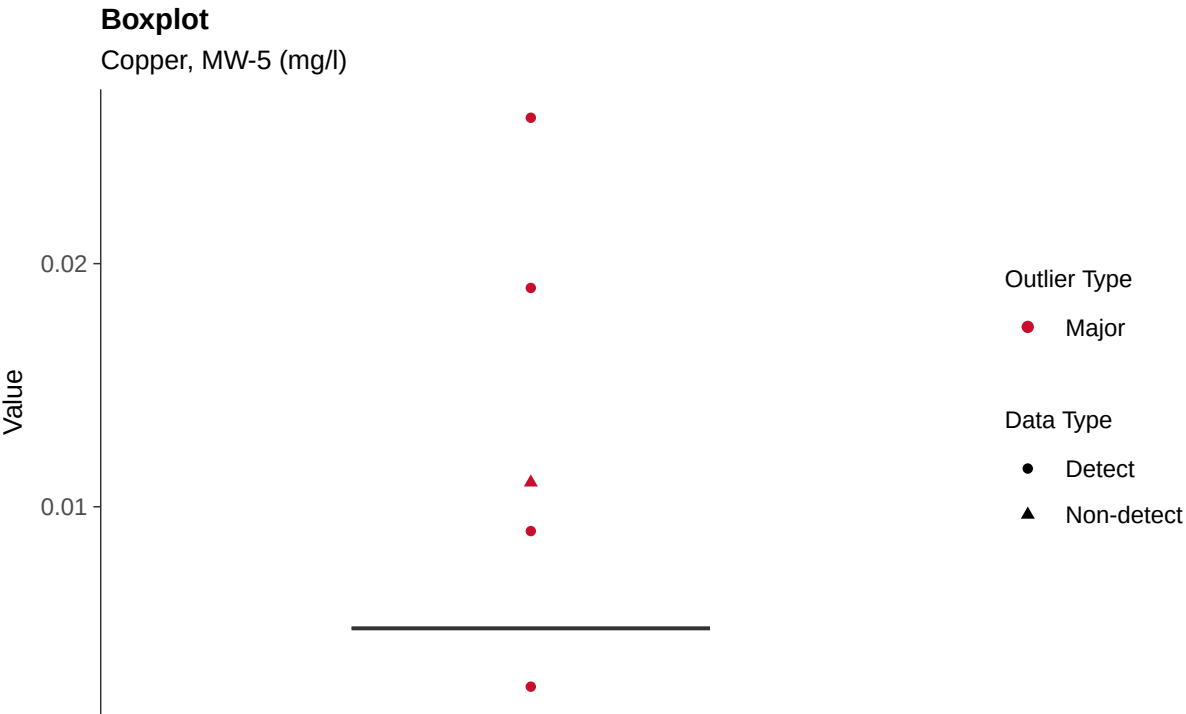


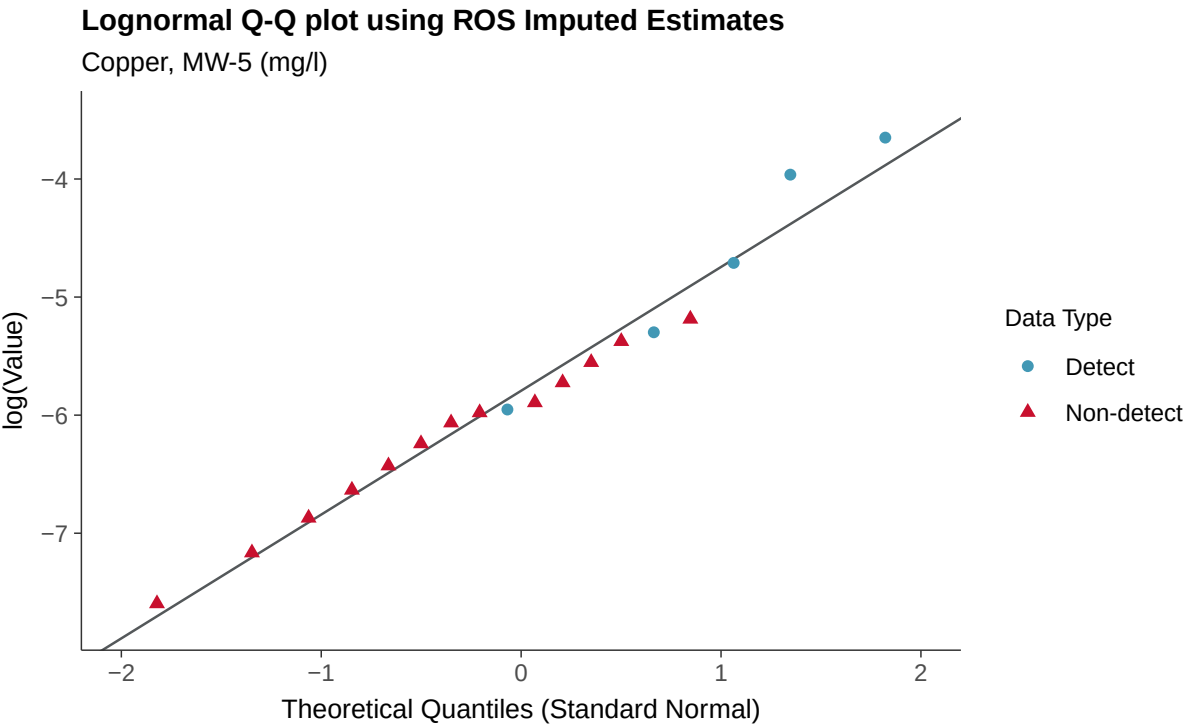
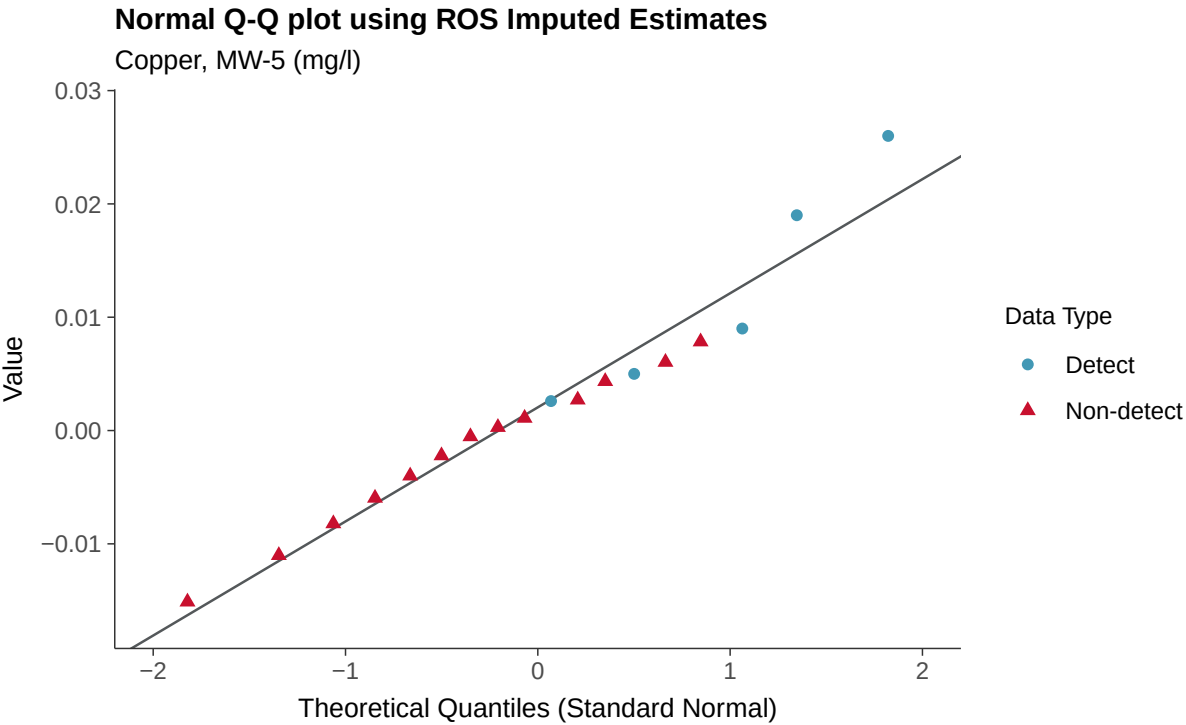


Part 115: Copper, MW-5

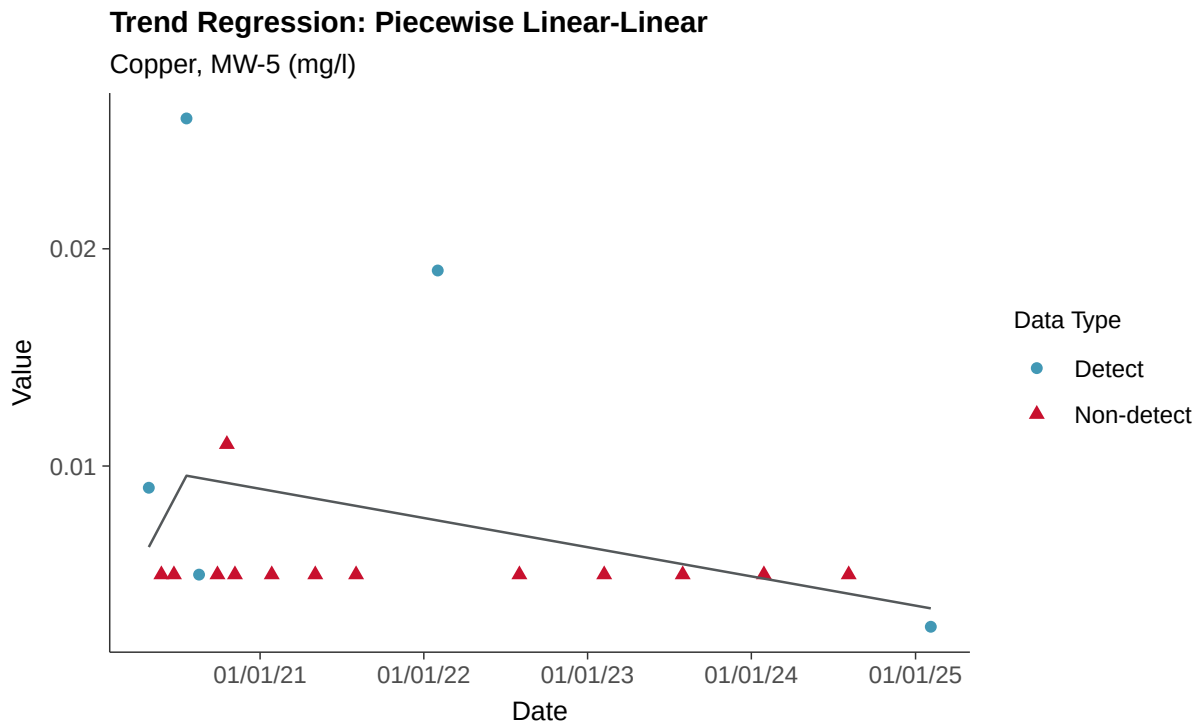
ID: 13_5_111



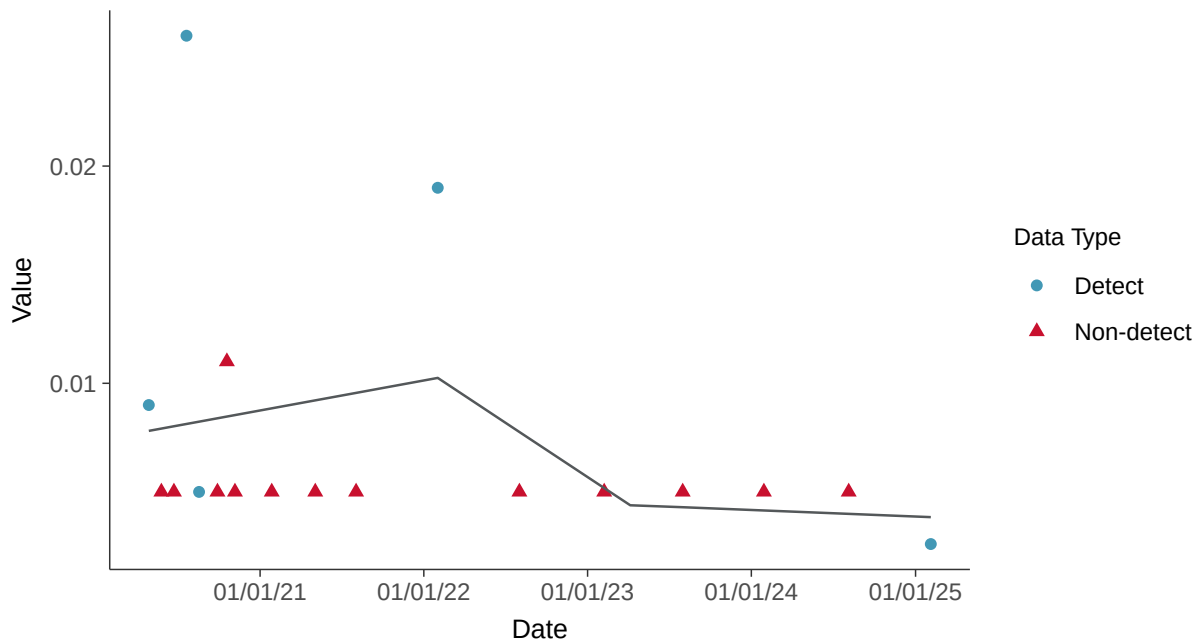




Copper, MW-5 (mg/l)



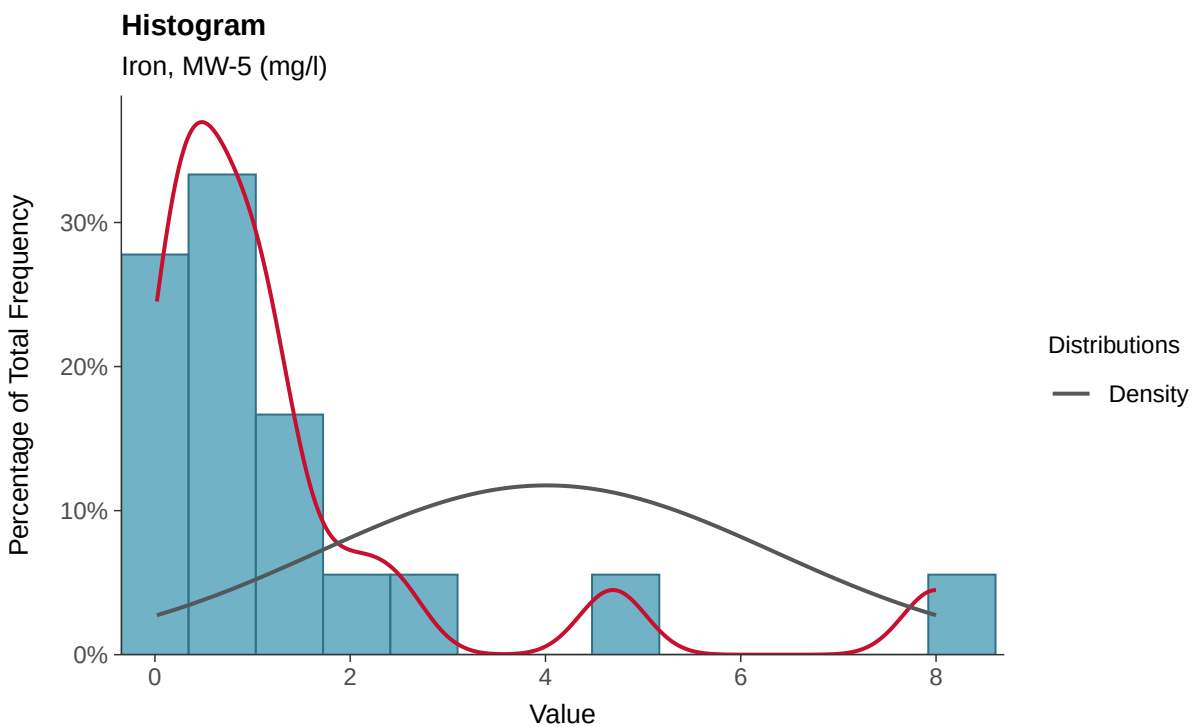
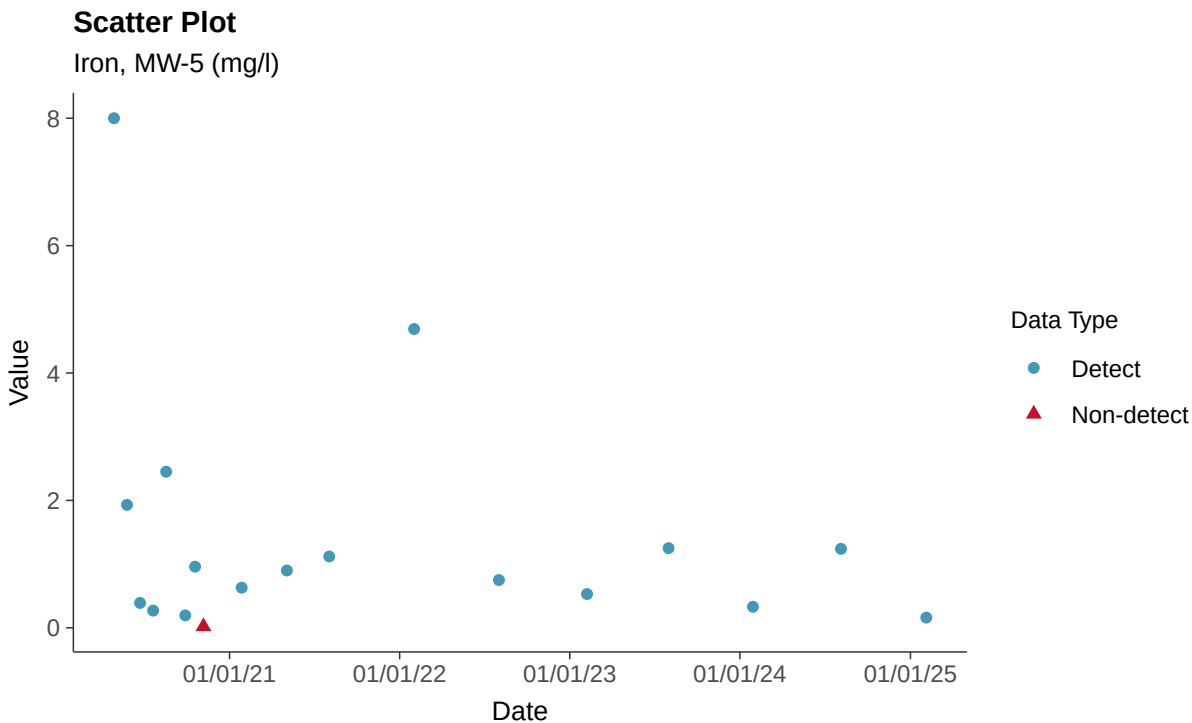
Copper, MW-5 (mg/l)

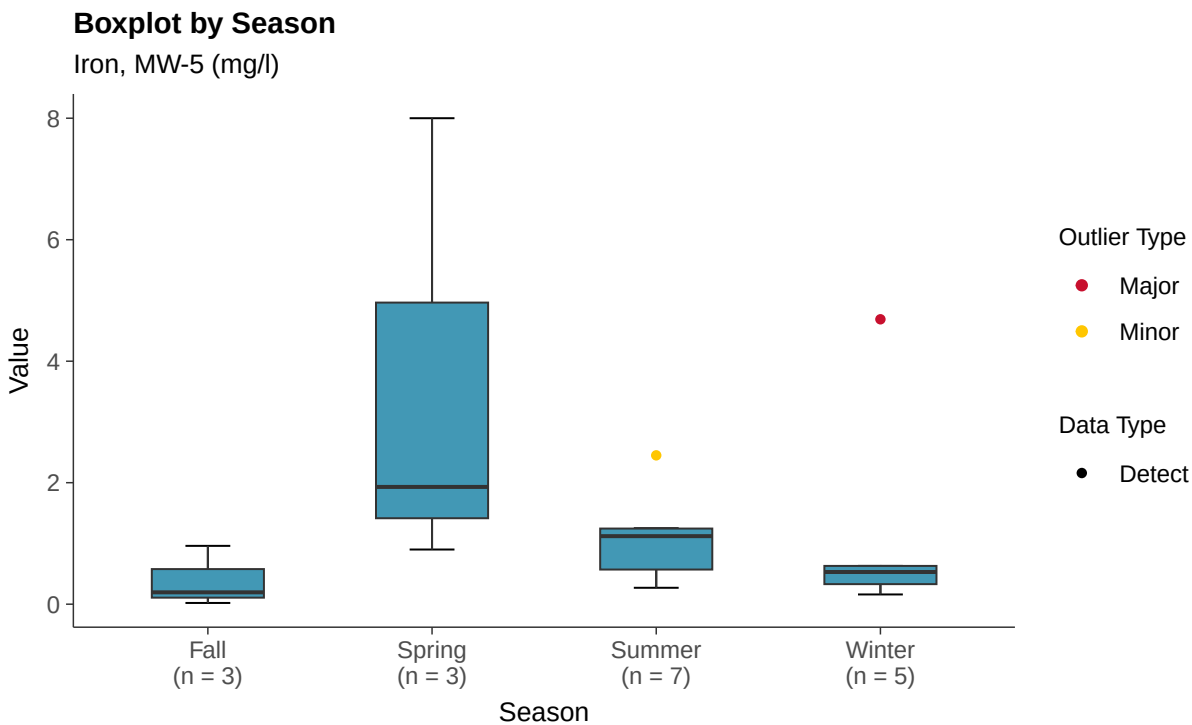
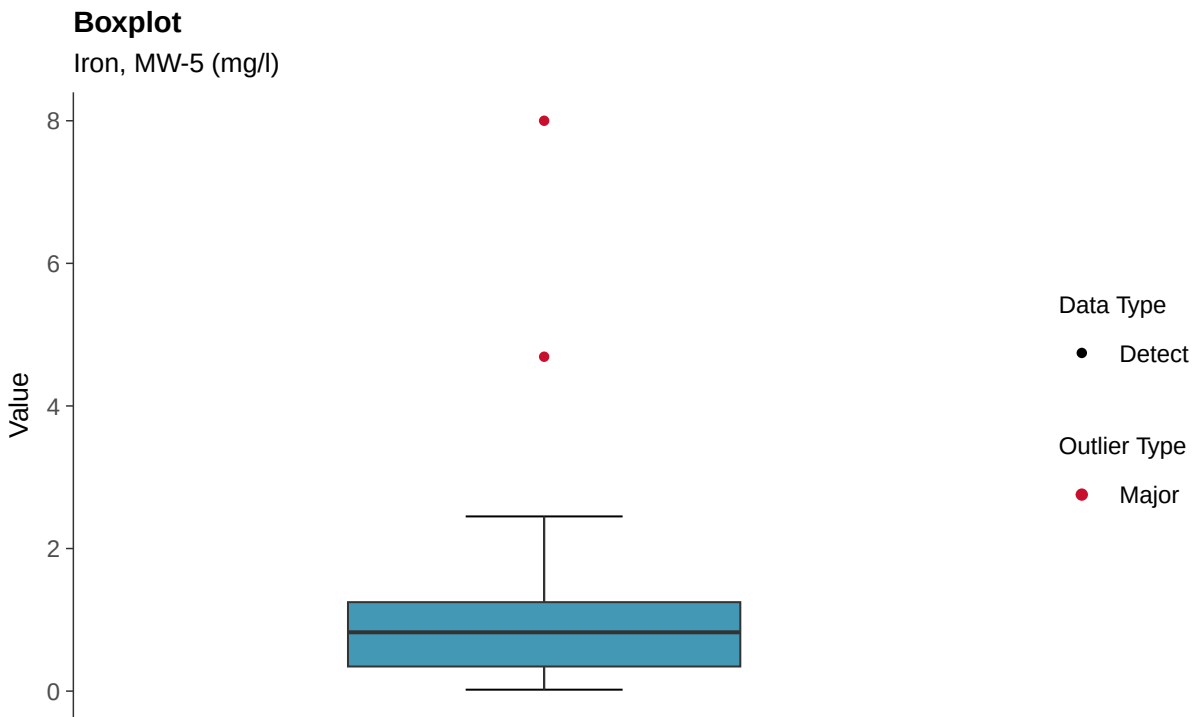




Part 115: Iron, MW-5

ID: 13_5_114

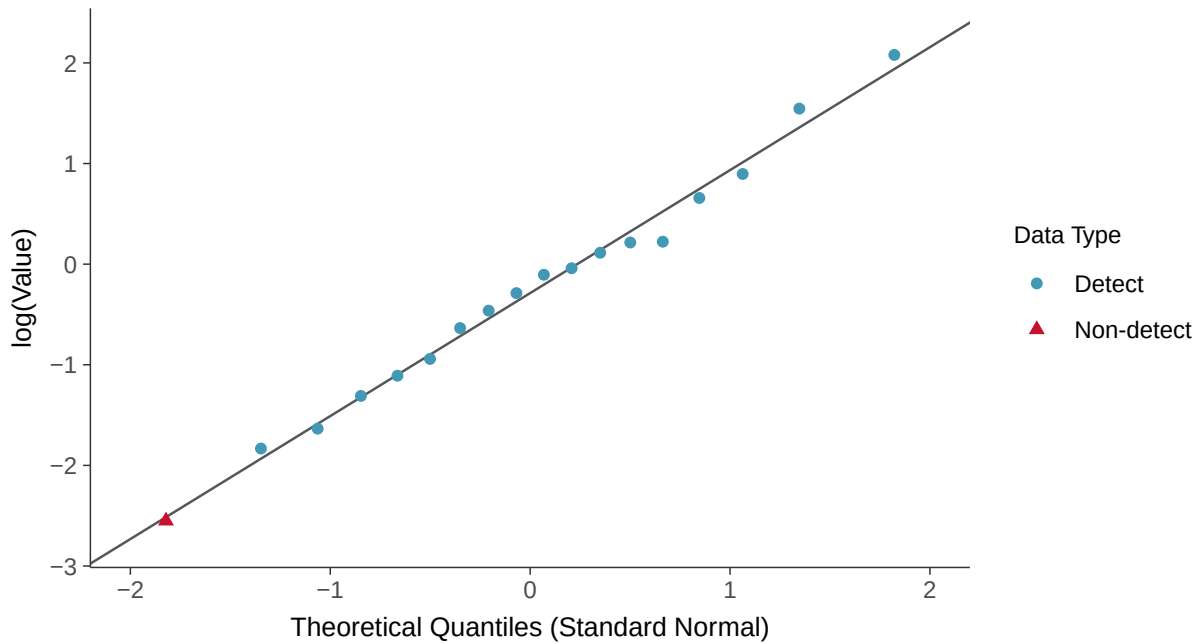






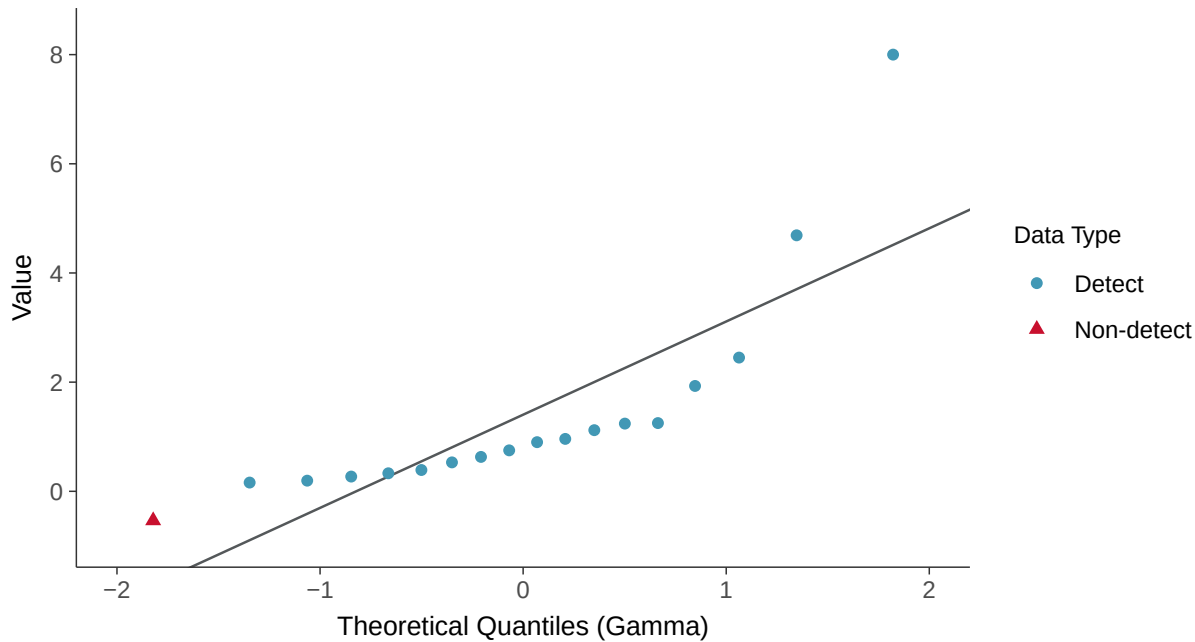
Lognormal Q-Q plot using ROS Imputed Estimates

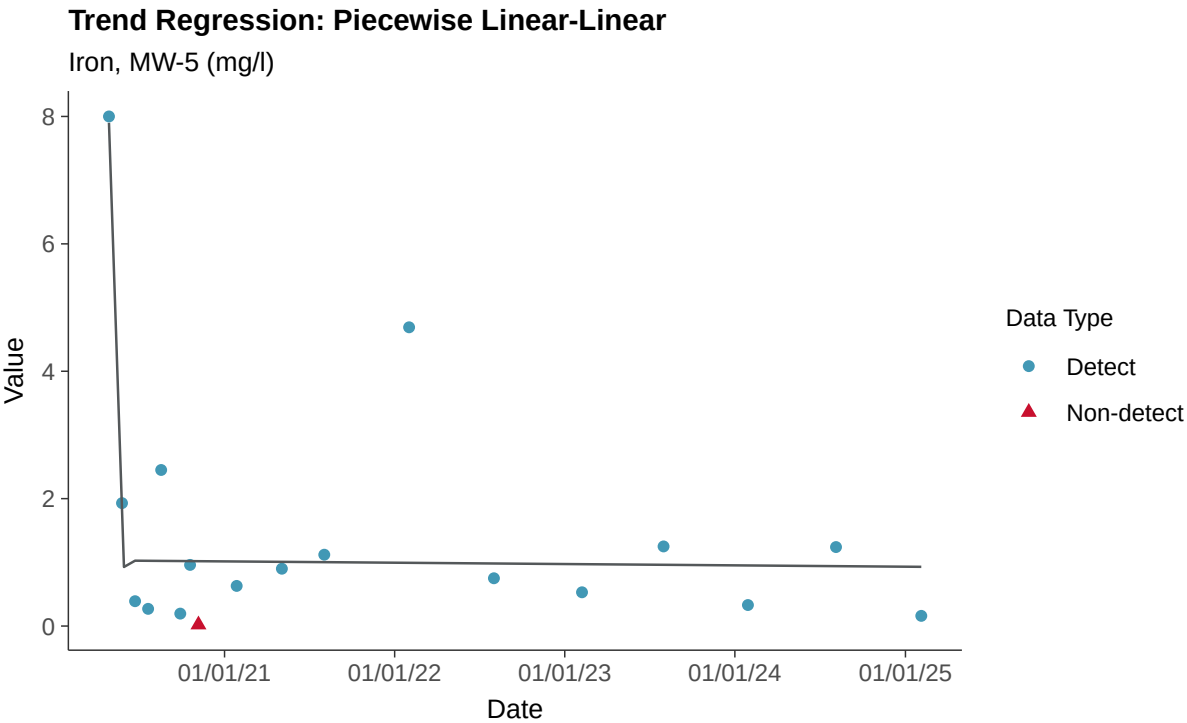
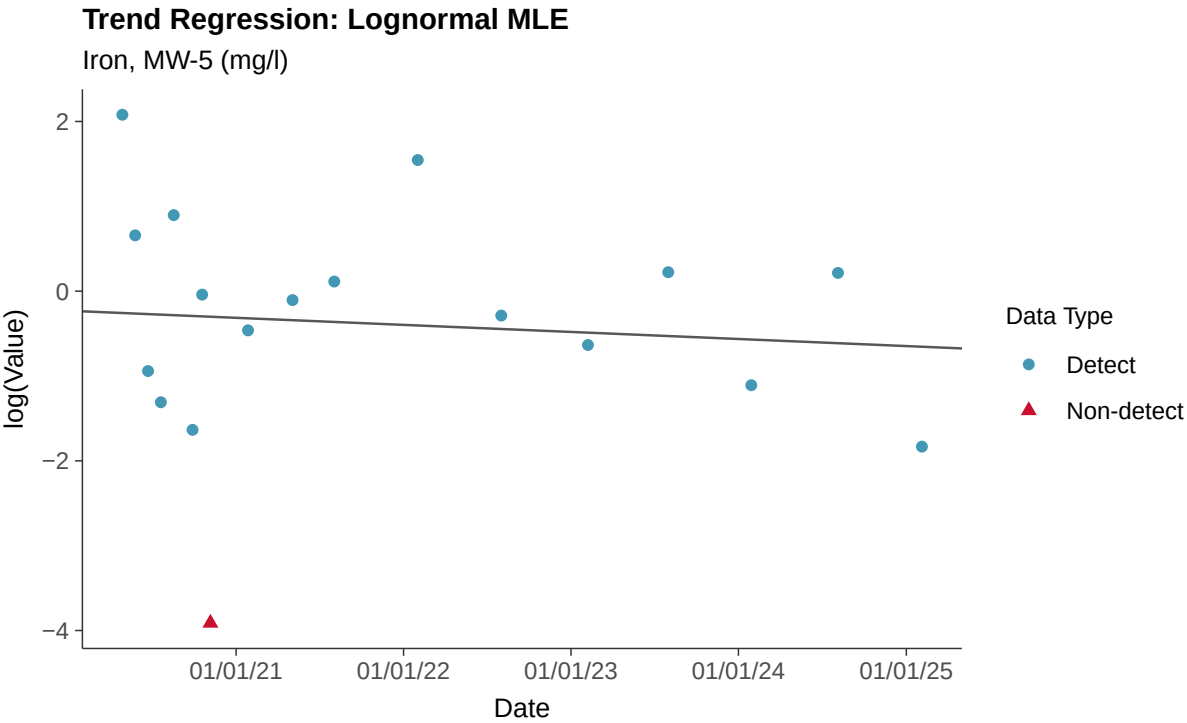
Iron, MW-5 (mg/l)

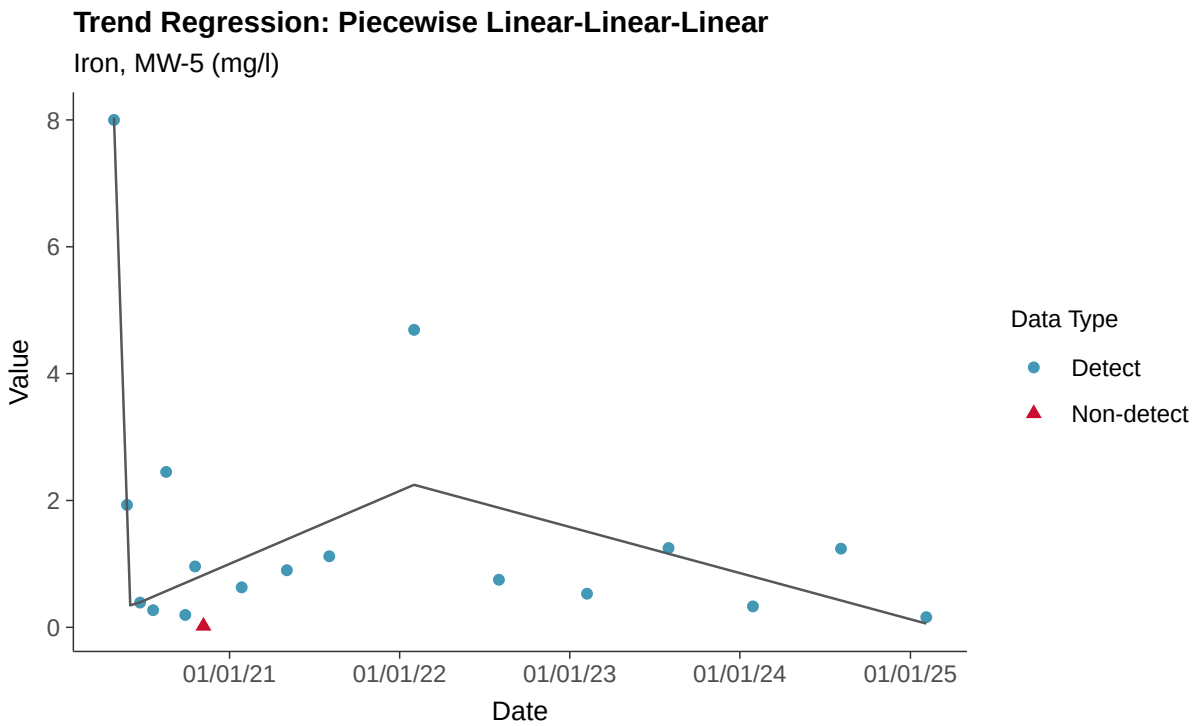


Gamma Q-Q plot using ROS Imputed Estimates

Iron, MW-5 (mg/l)



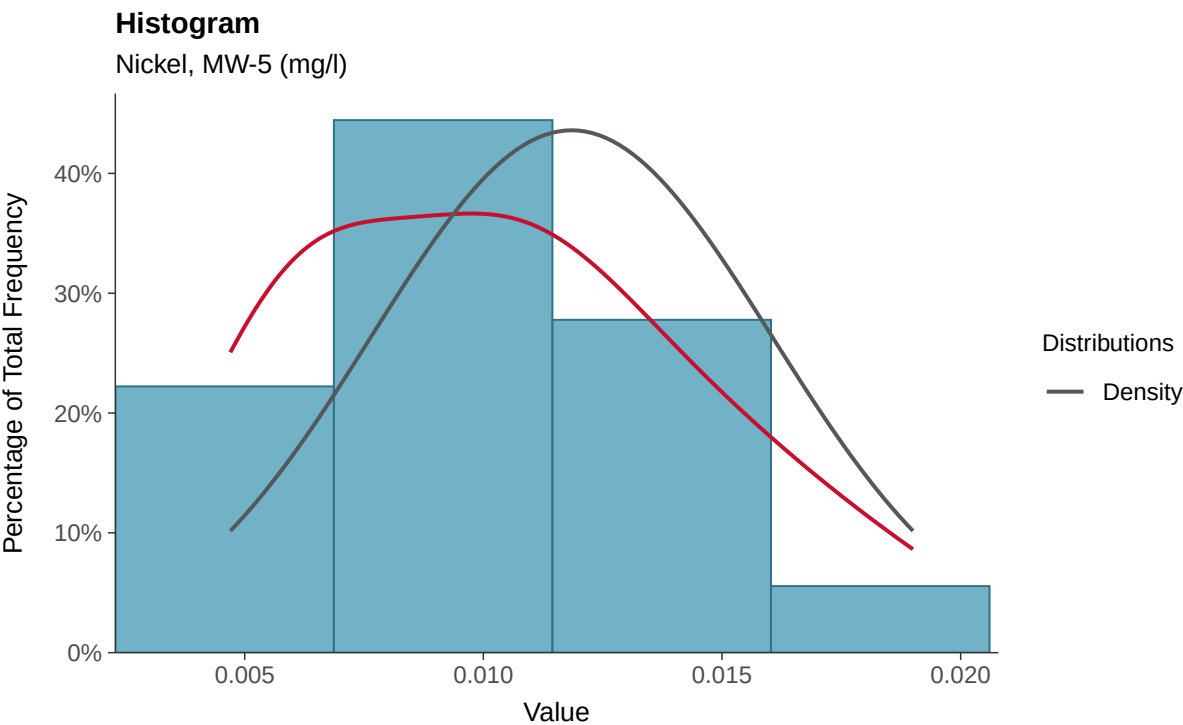
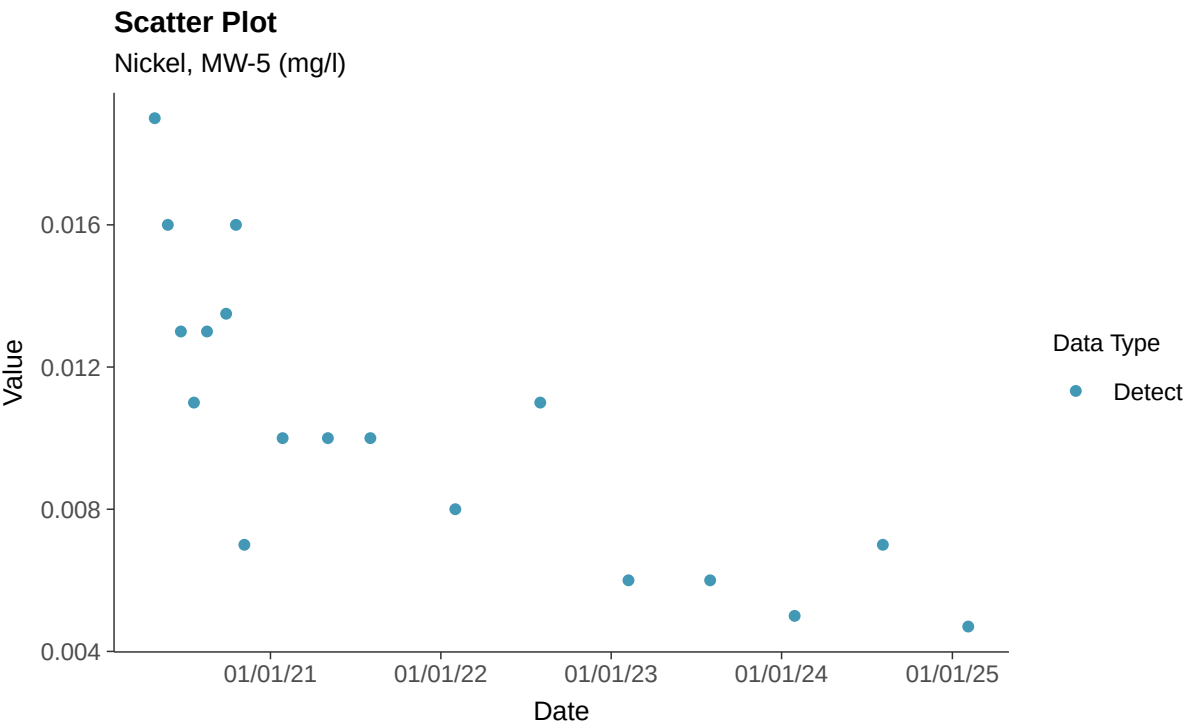


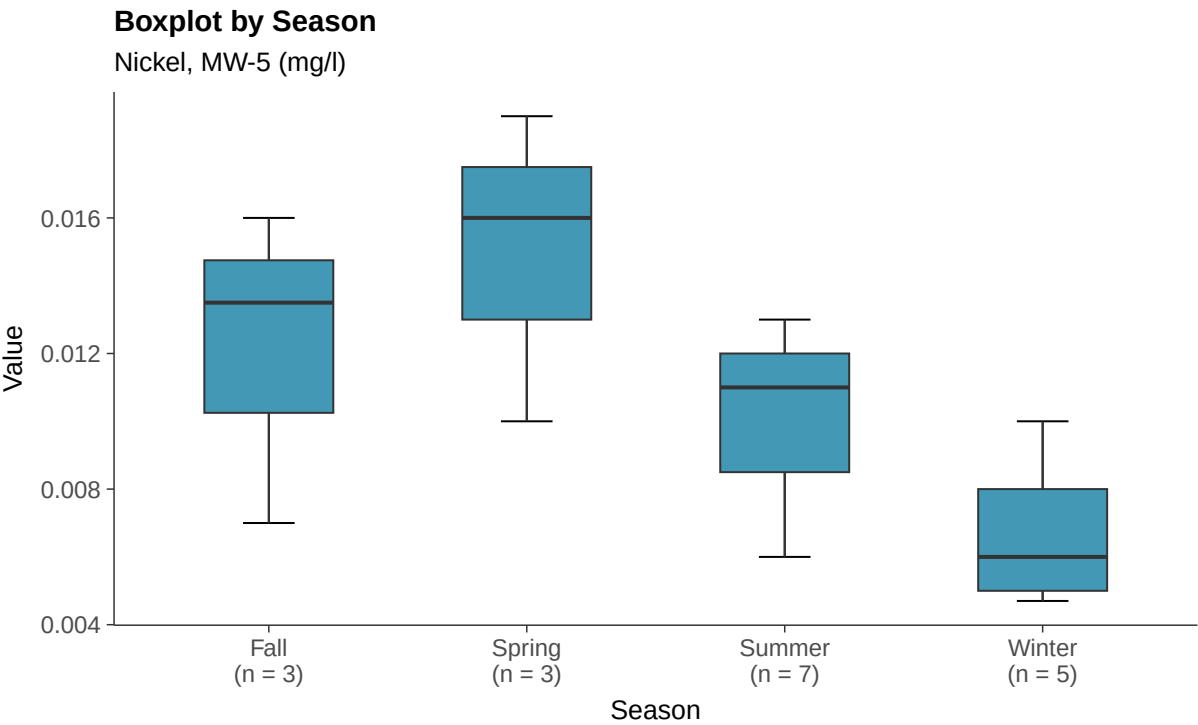
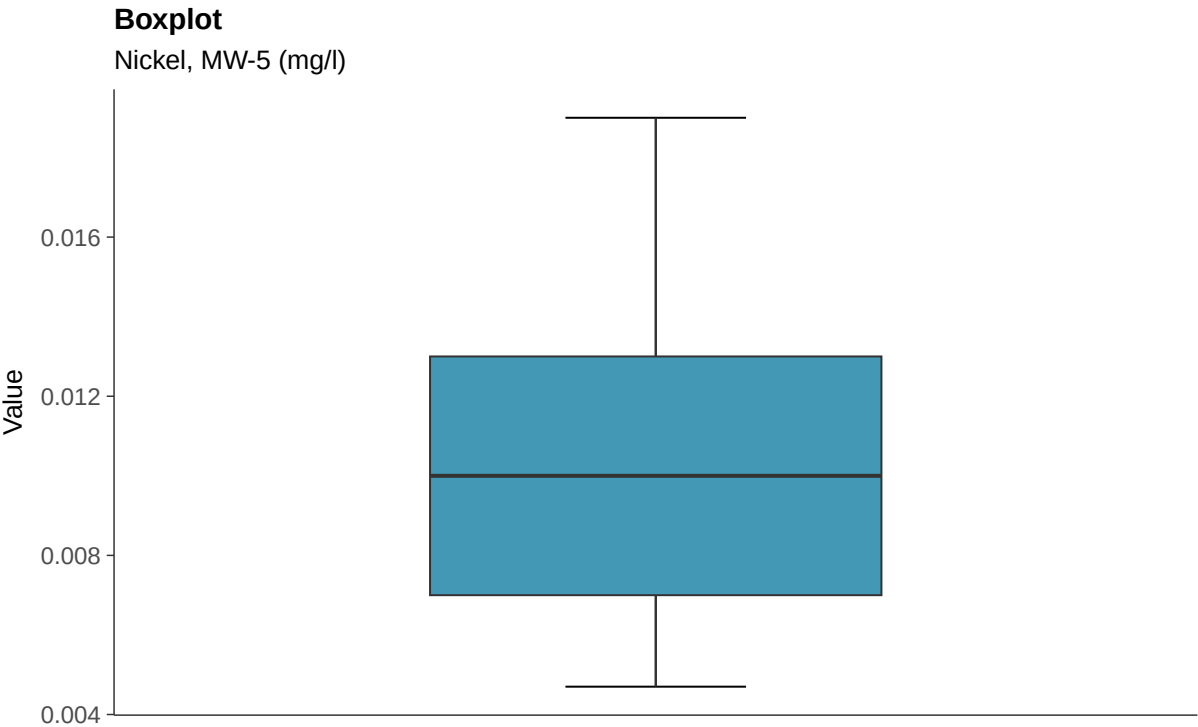


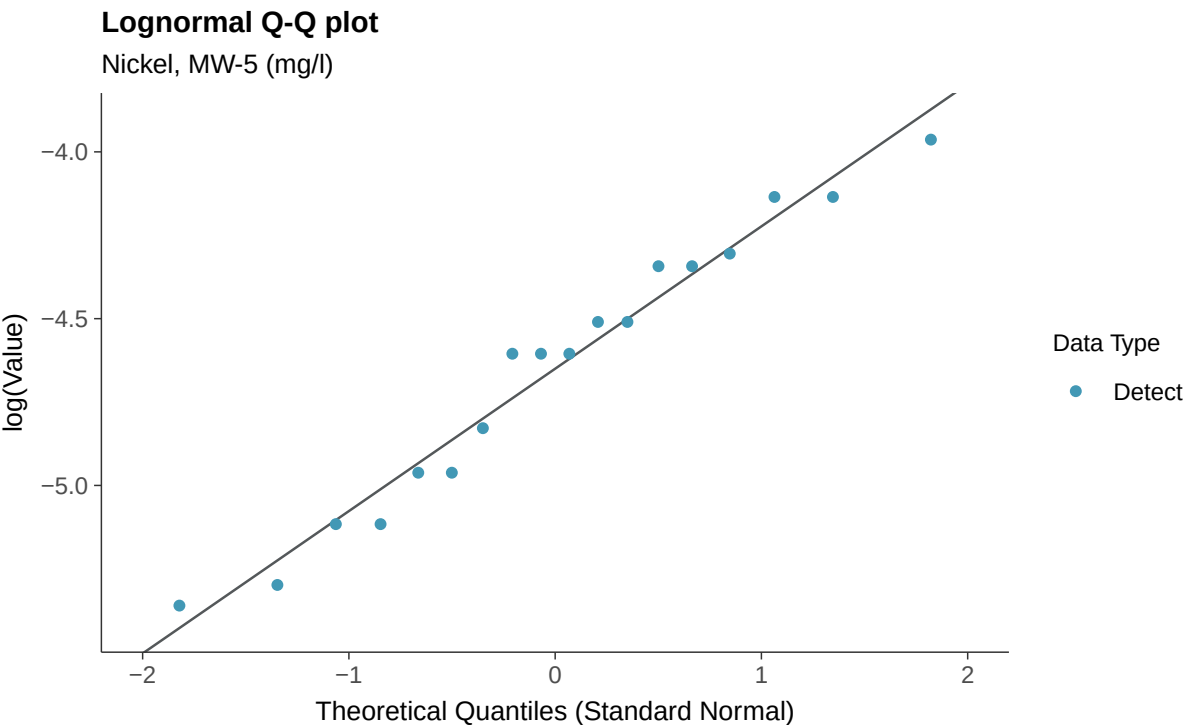
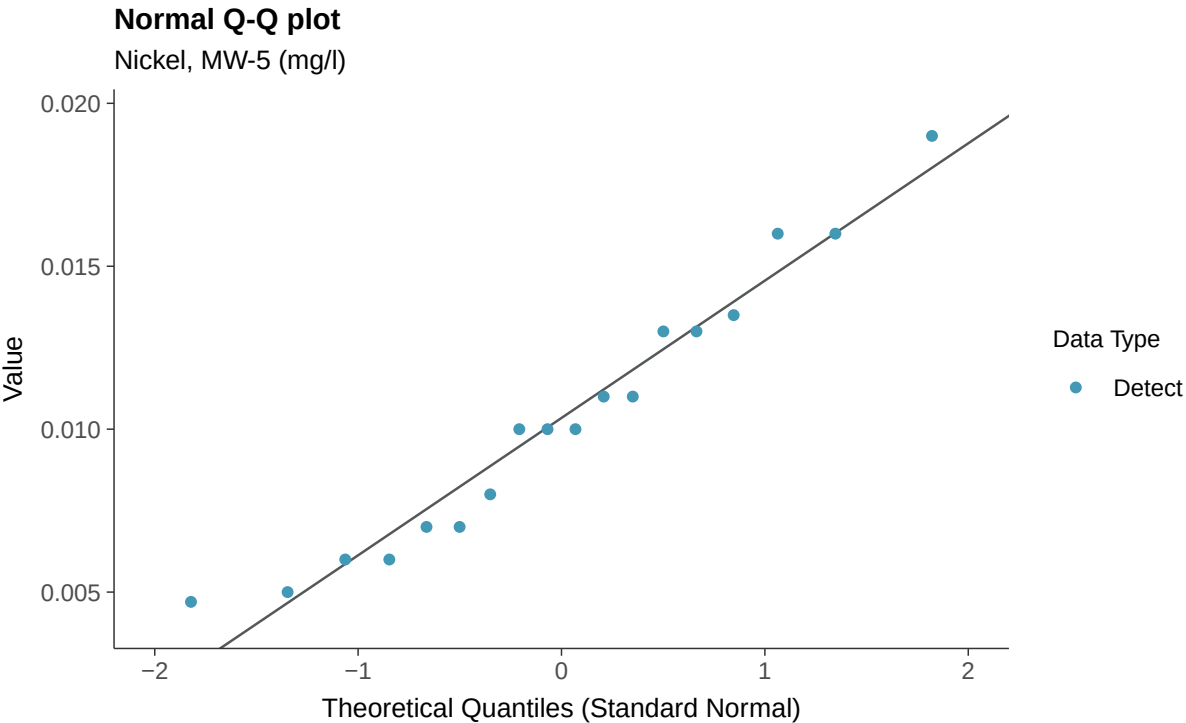


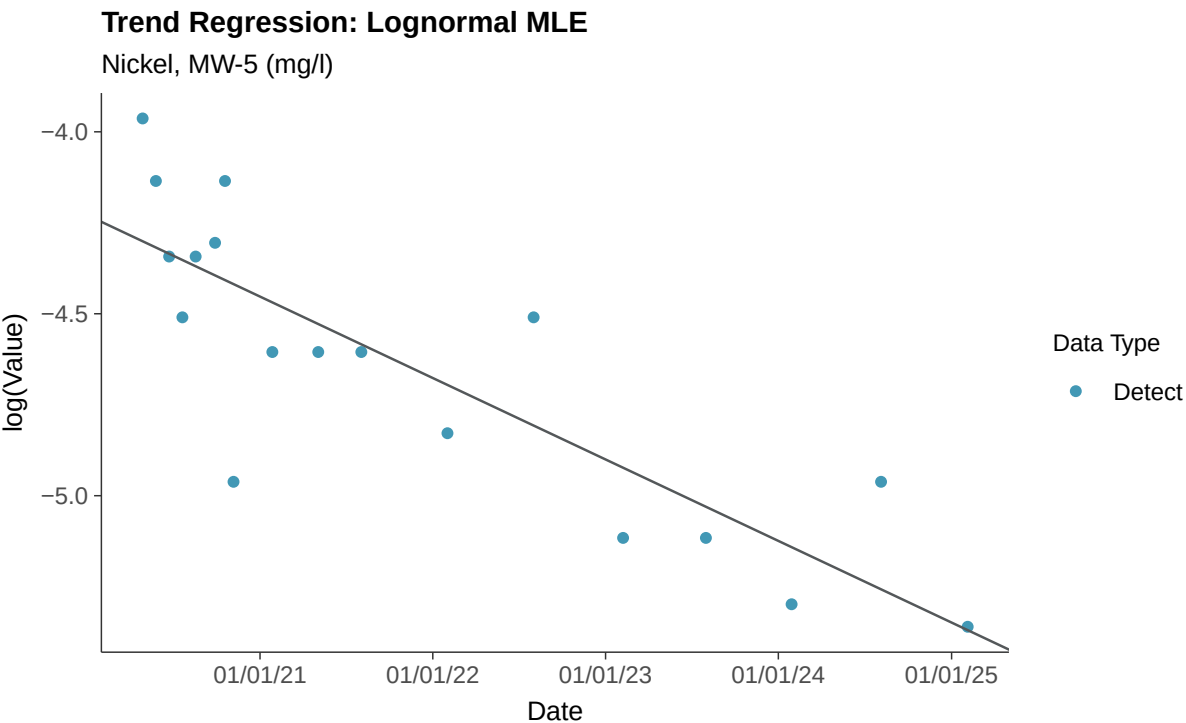
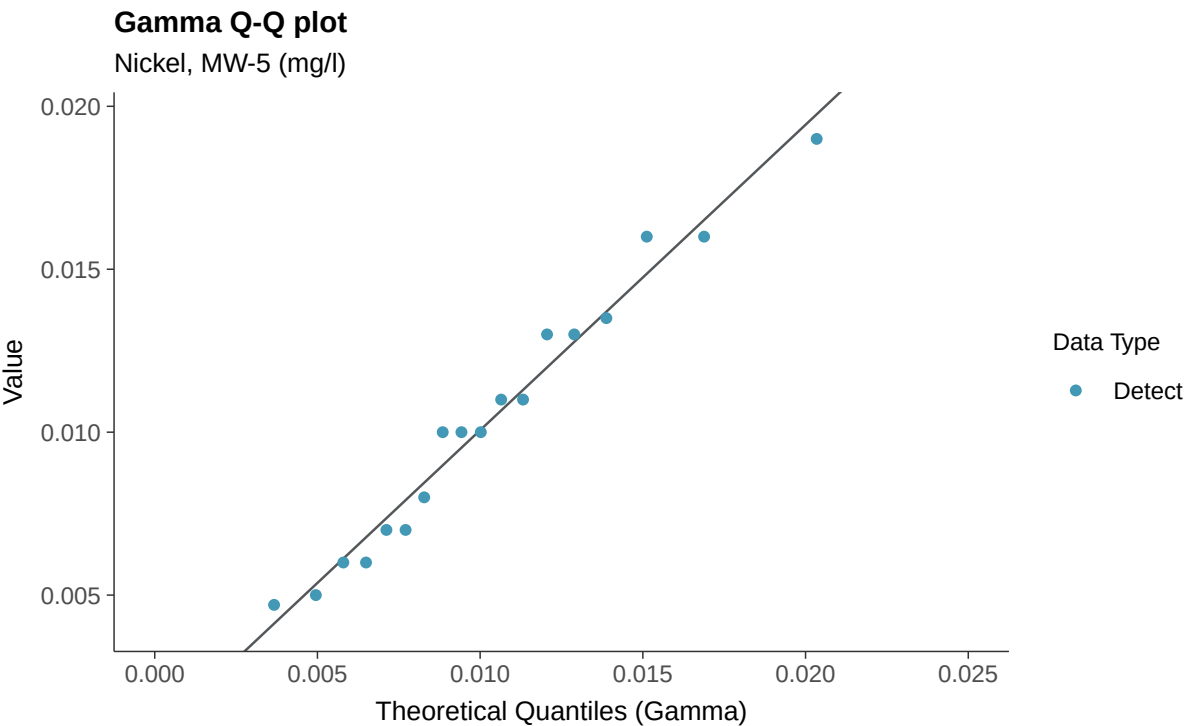
Part 115: Nickel, MW-5

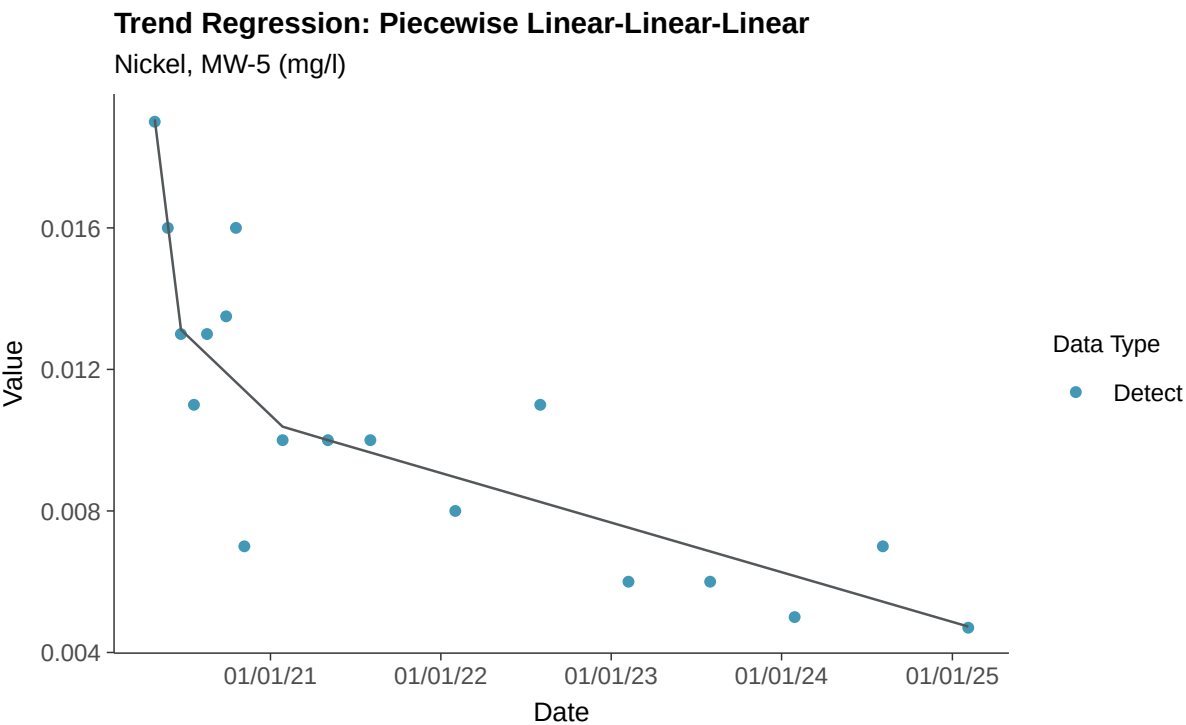
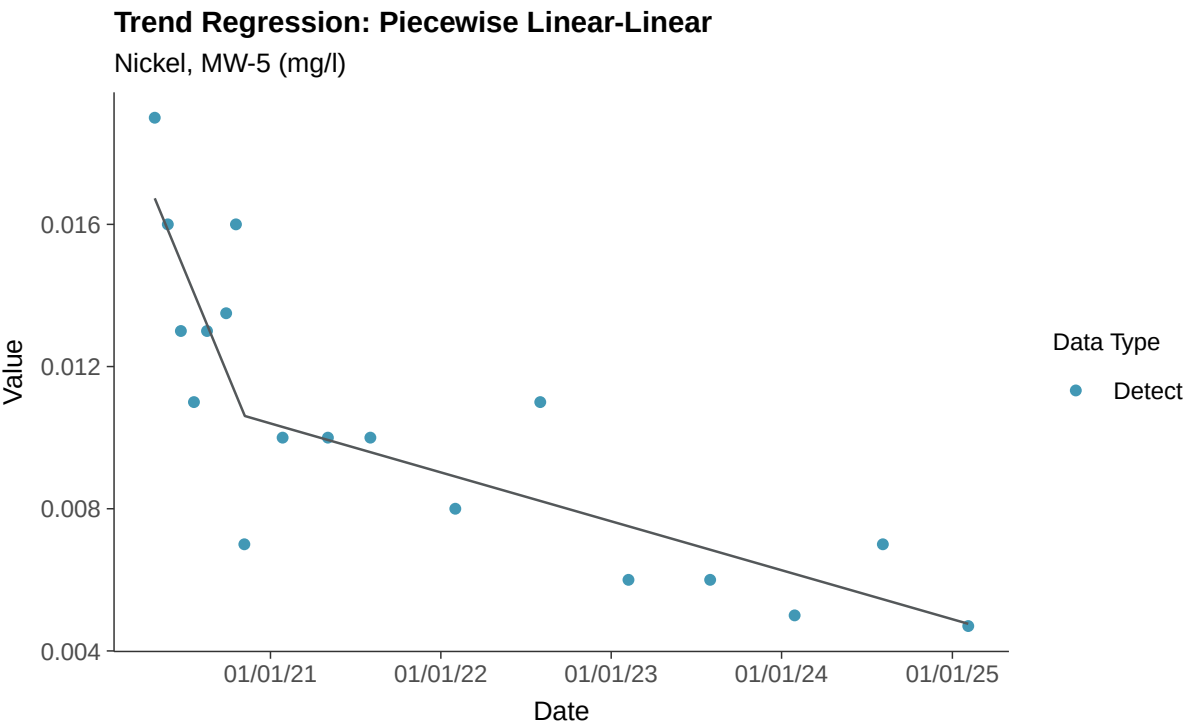
ID: 13_5_119

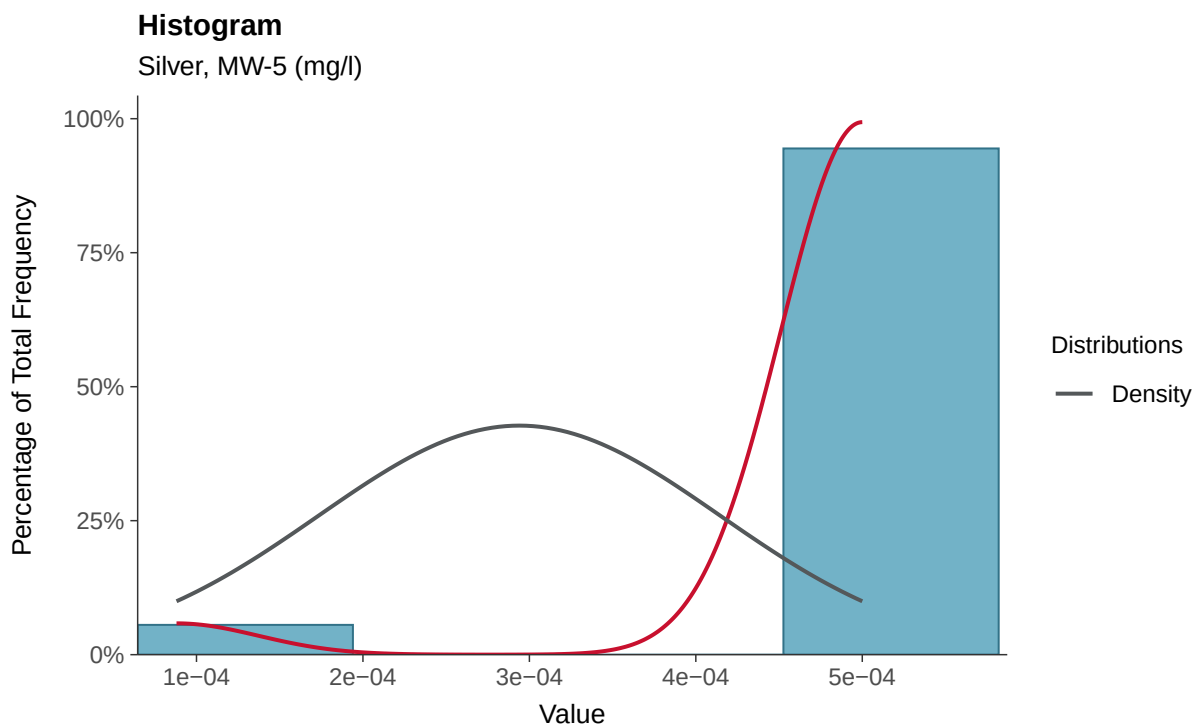


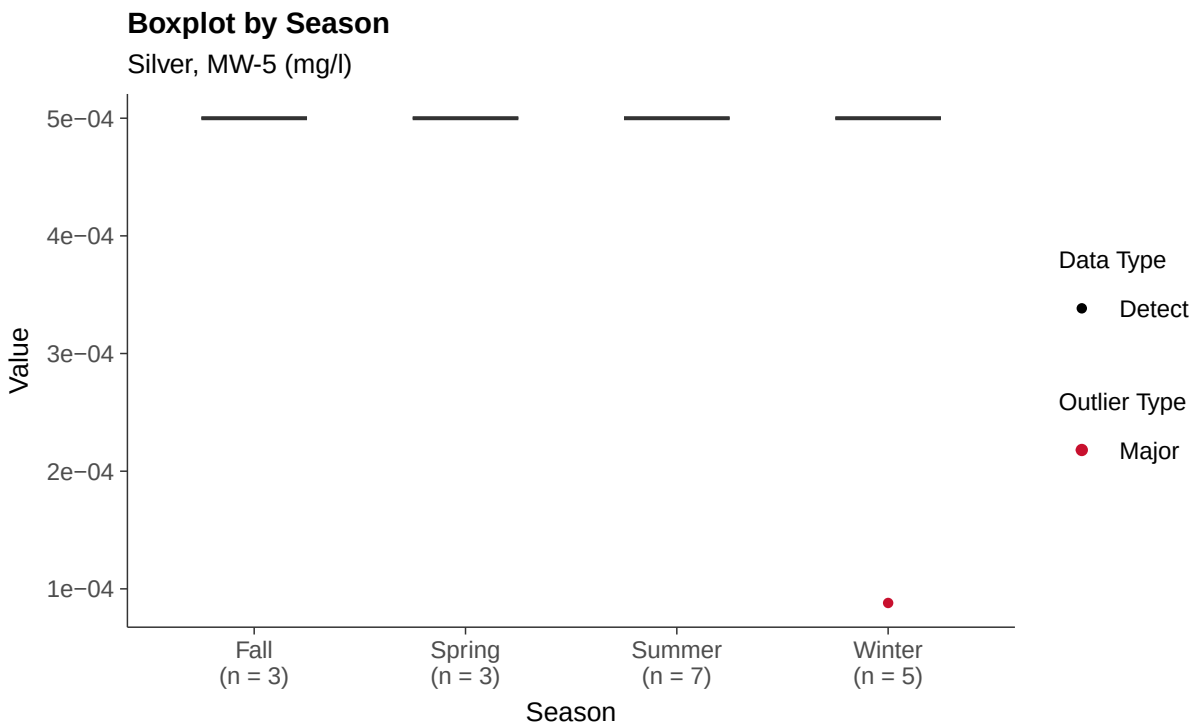
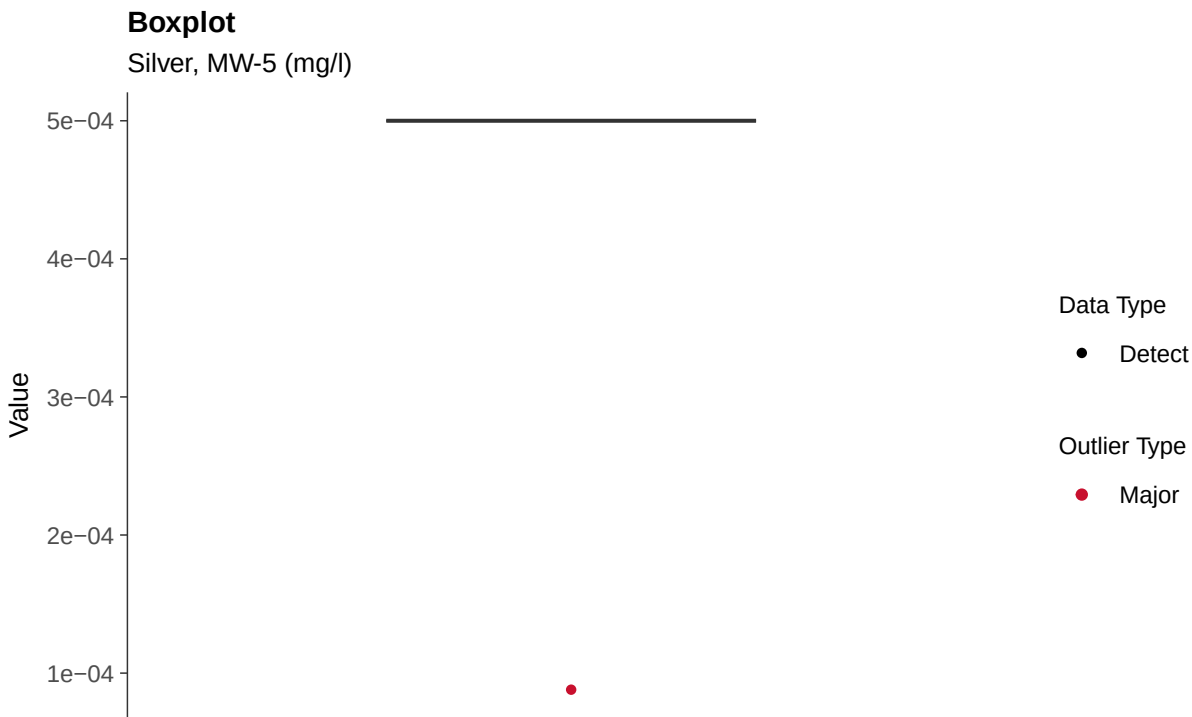


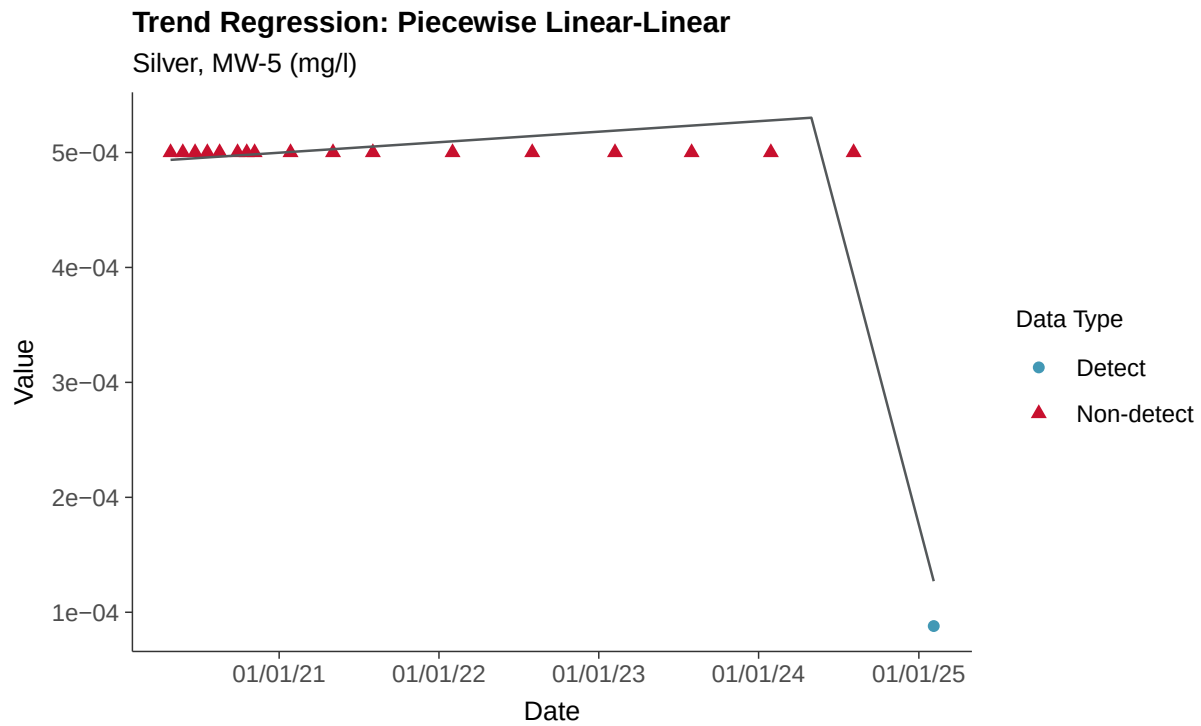


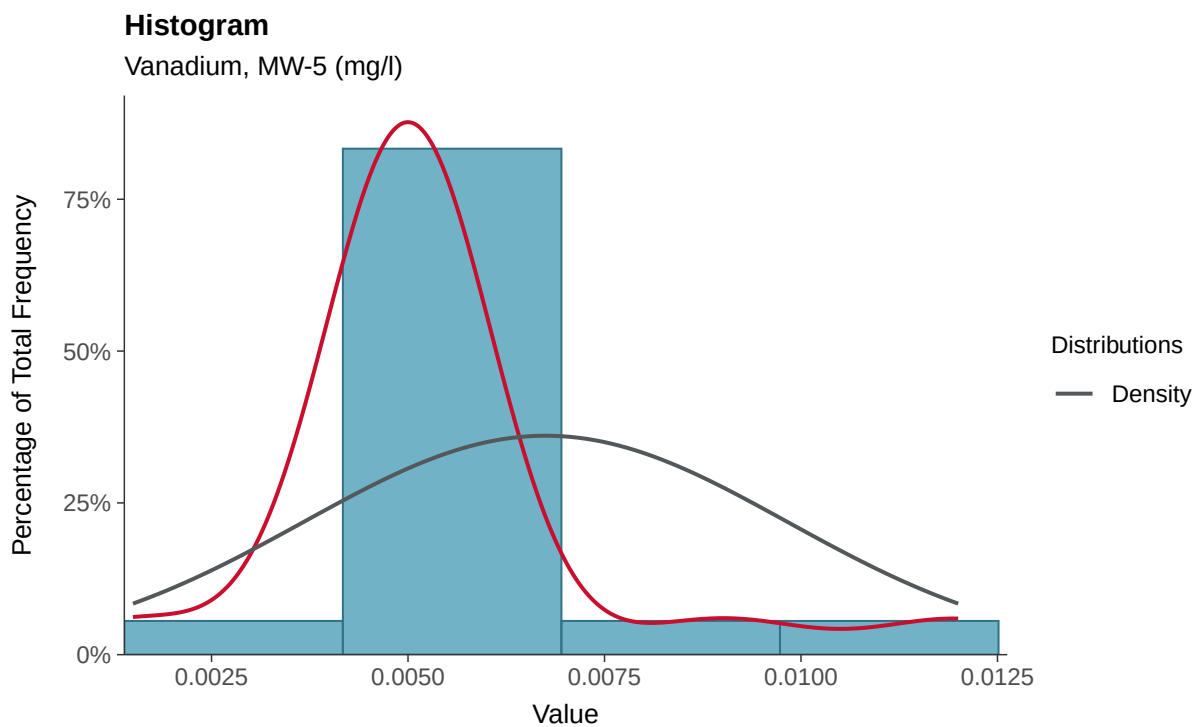




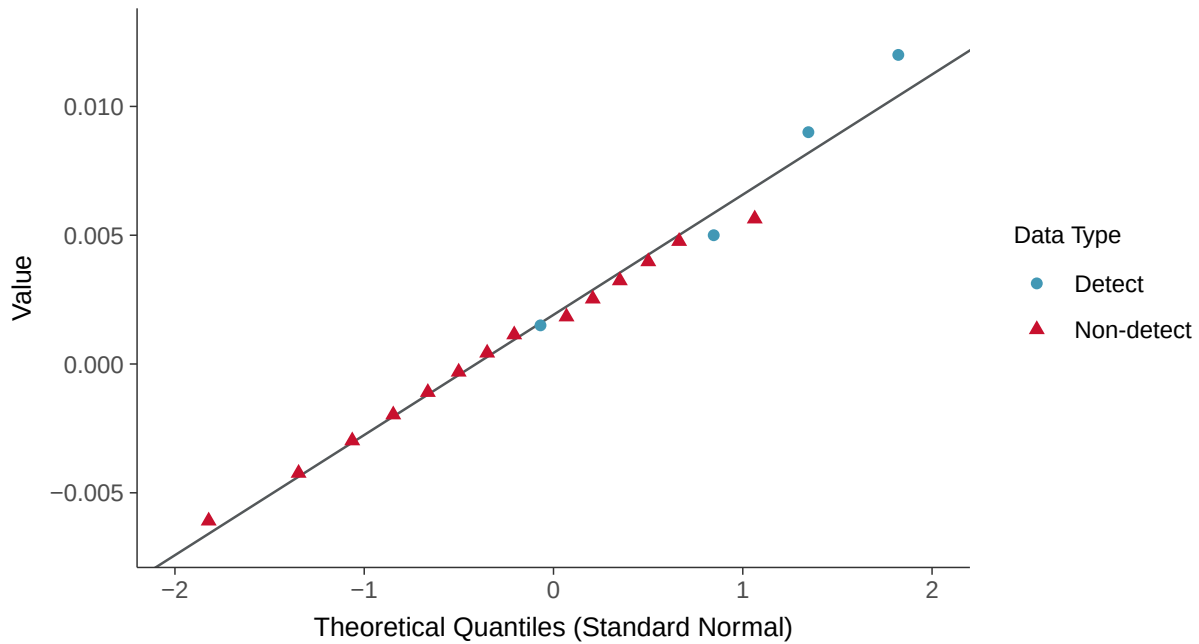




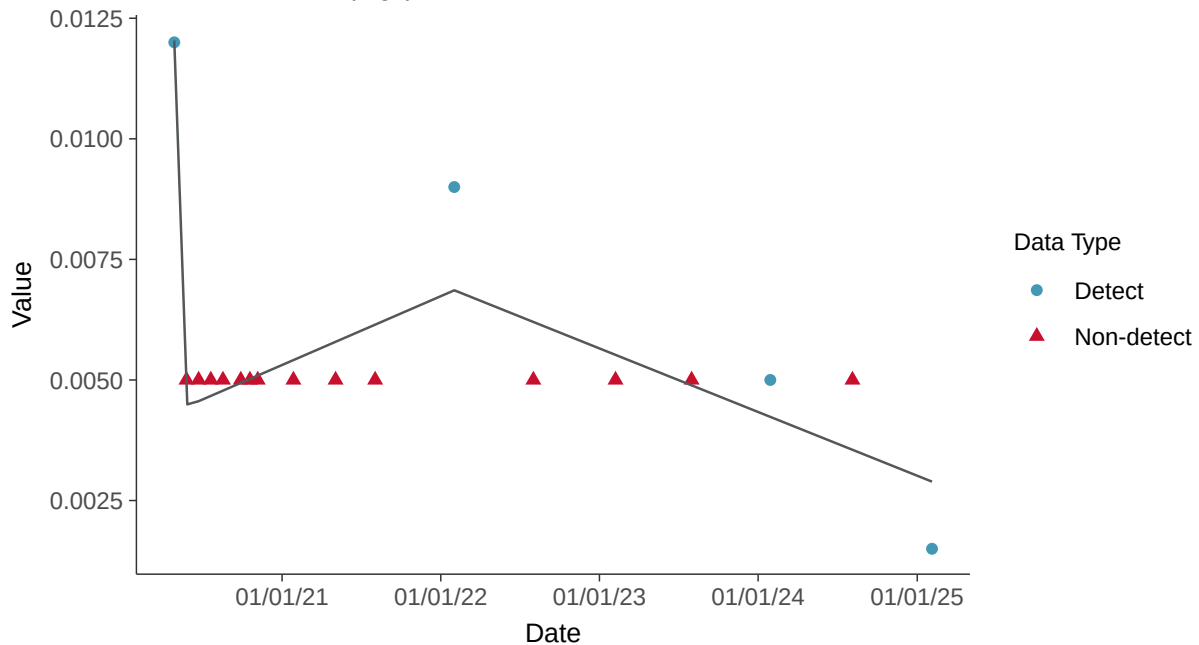




Vanadium, MW-5 (mg/l)



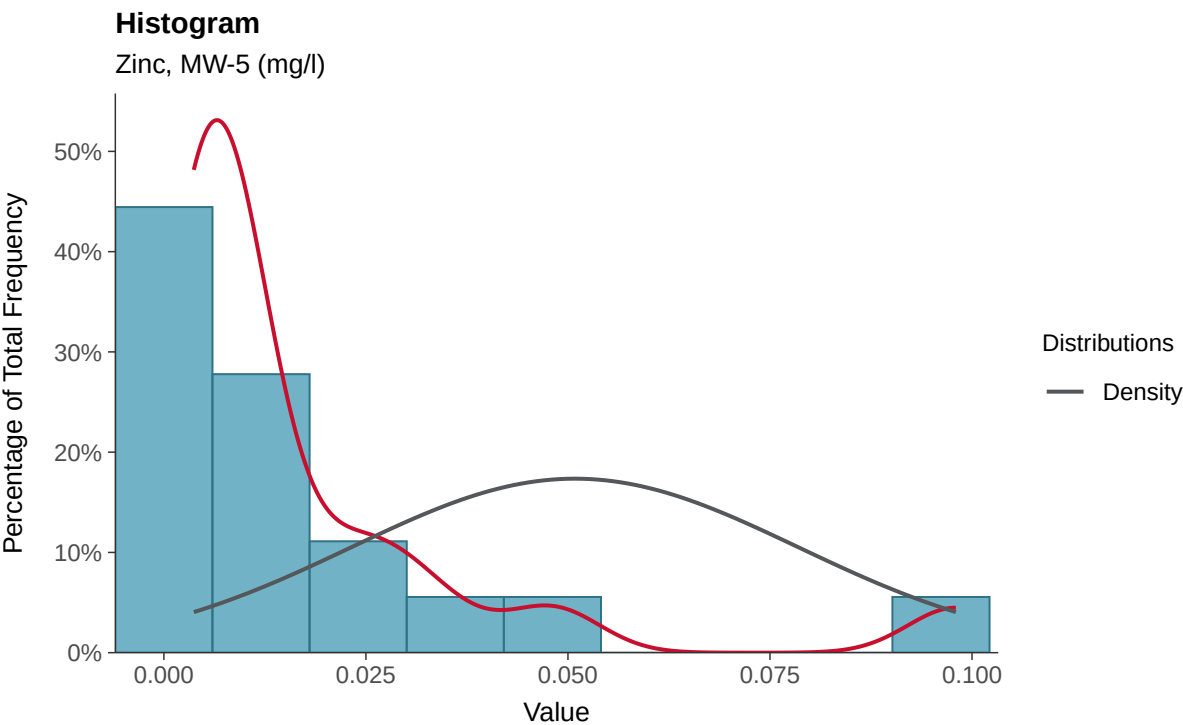
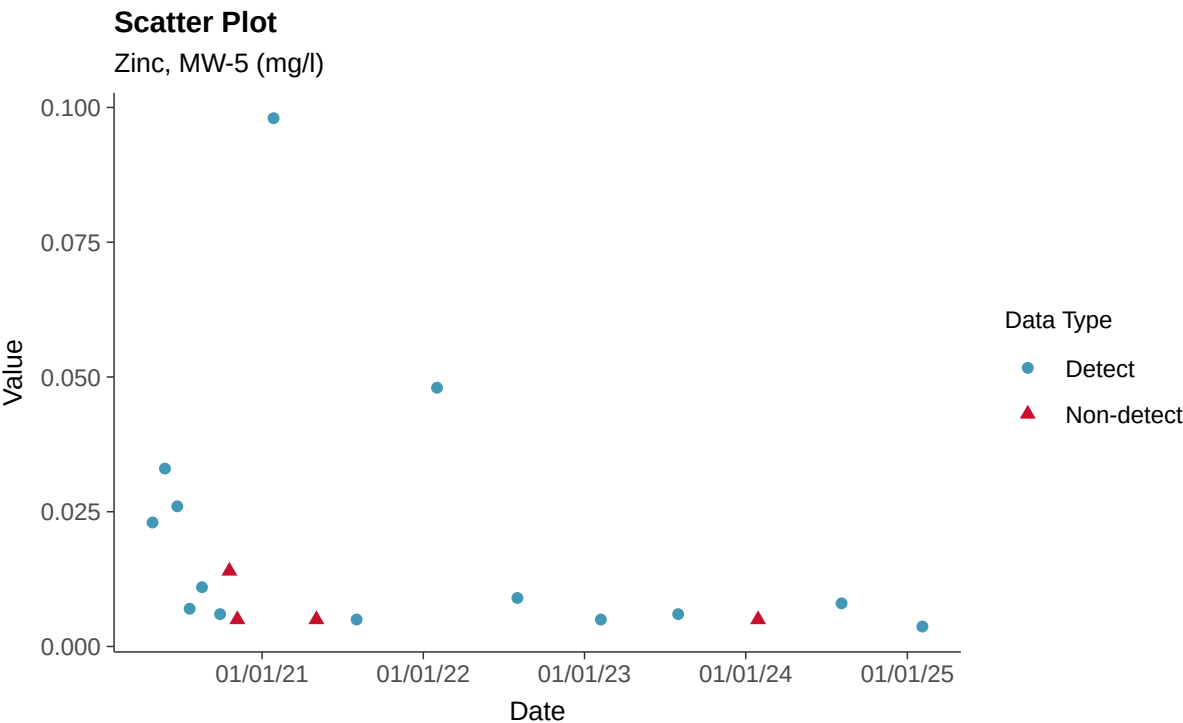
Vanadium, MW-5 (mg/l)

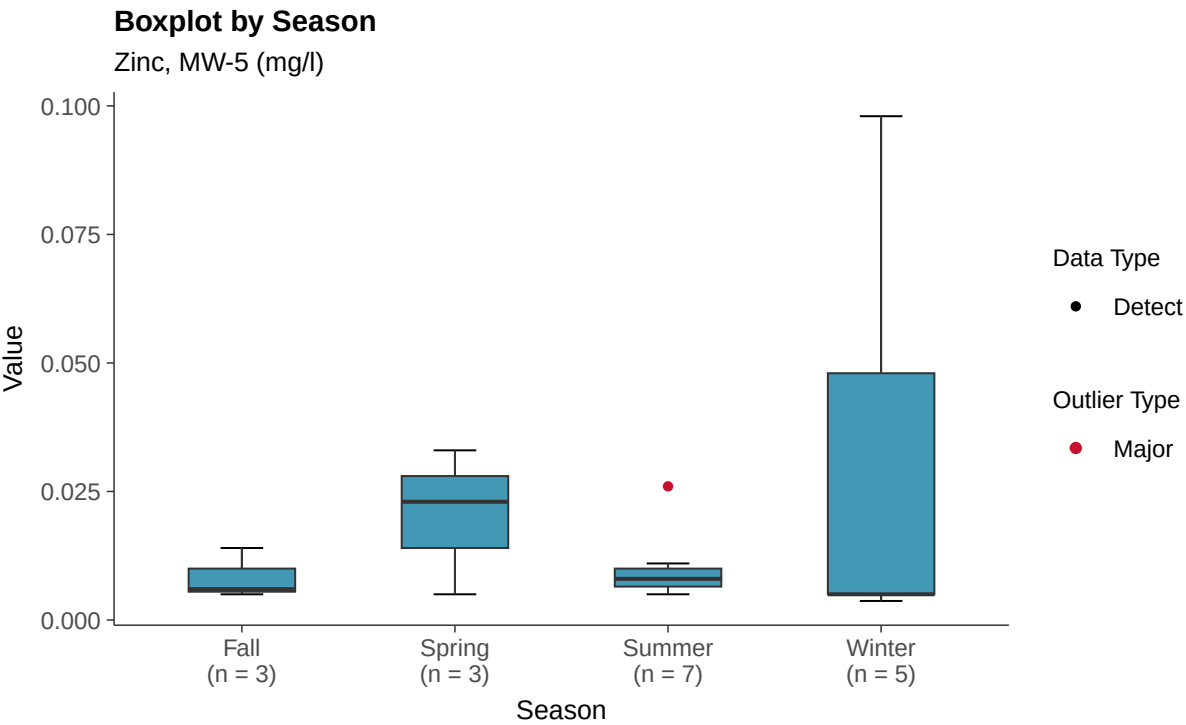
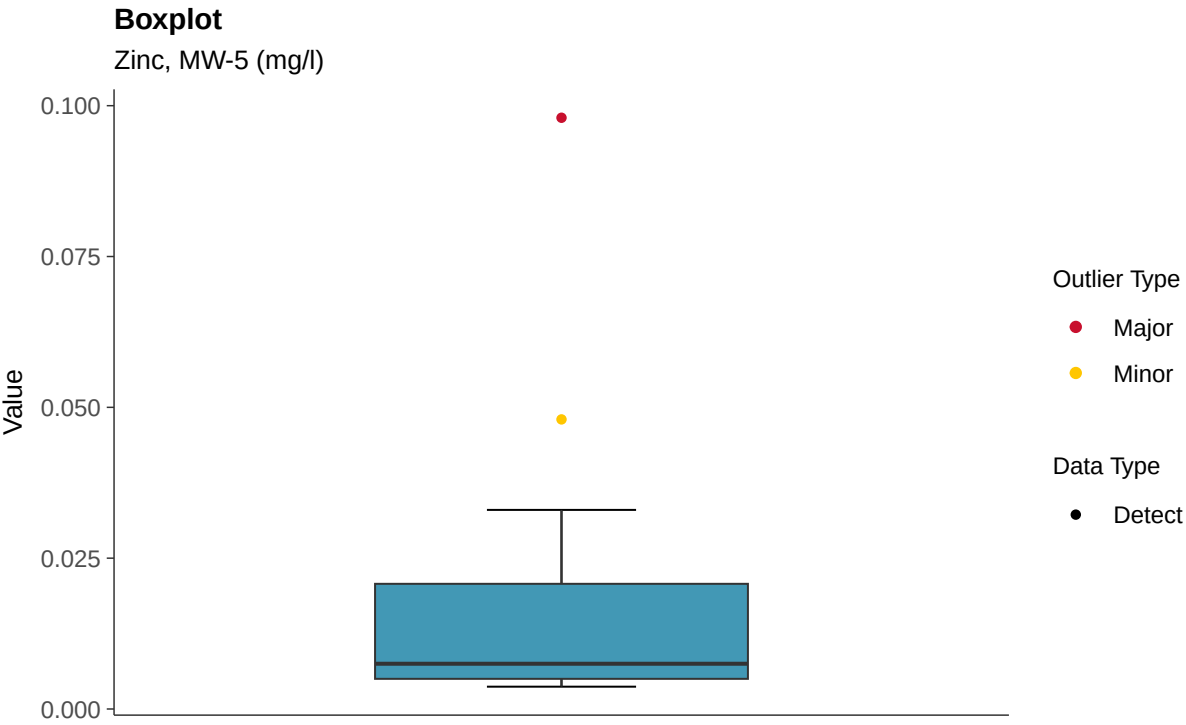




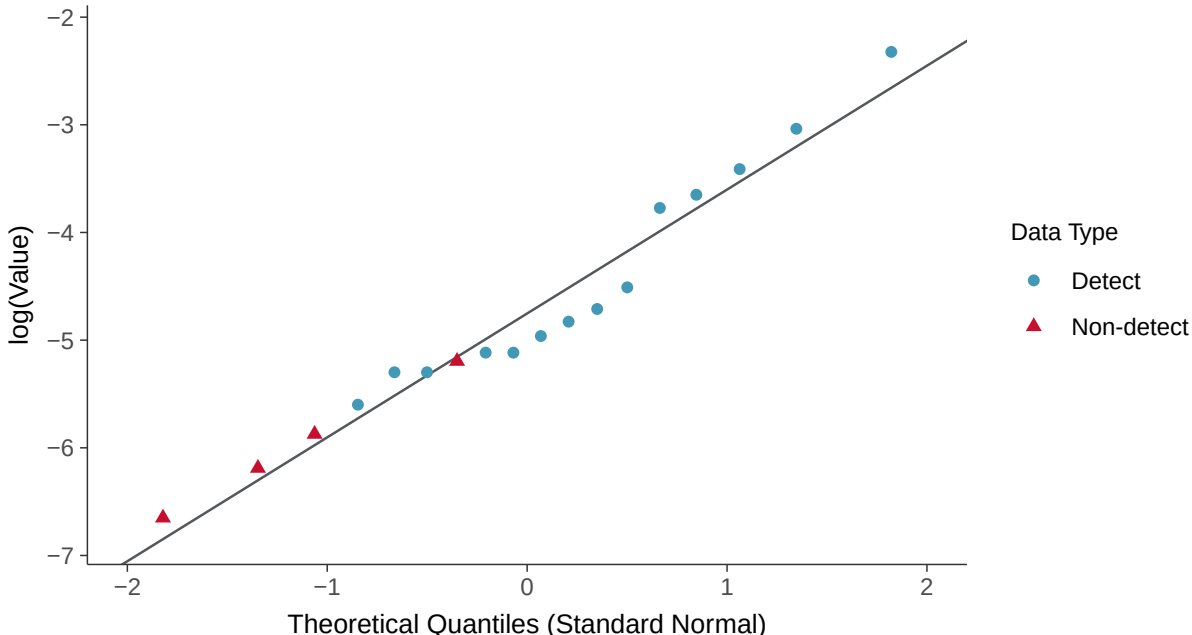
Part 115: Zinc, MW-5

ID: 13_5_129

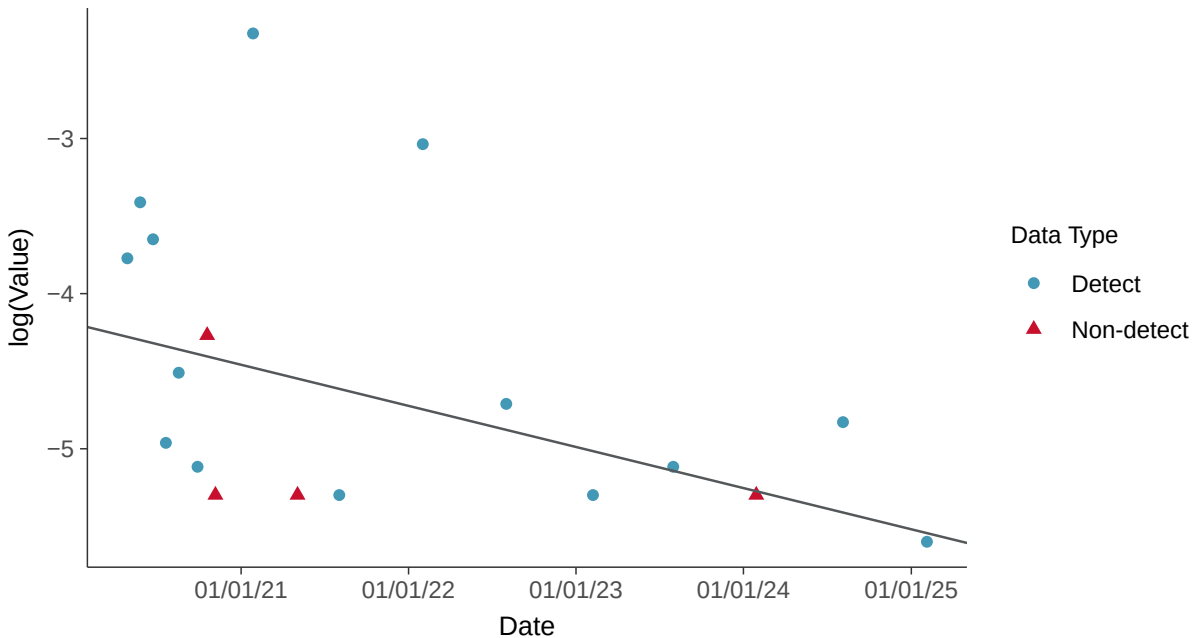


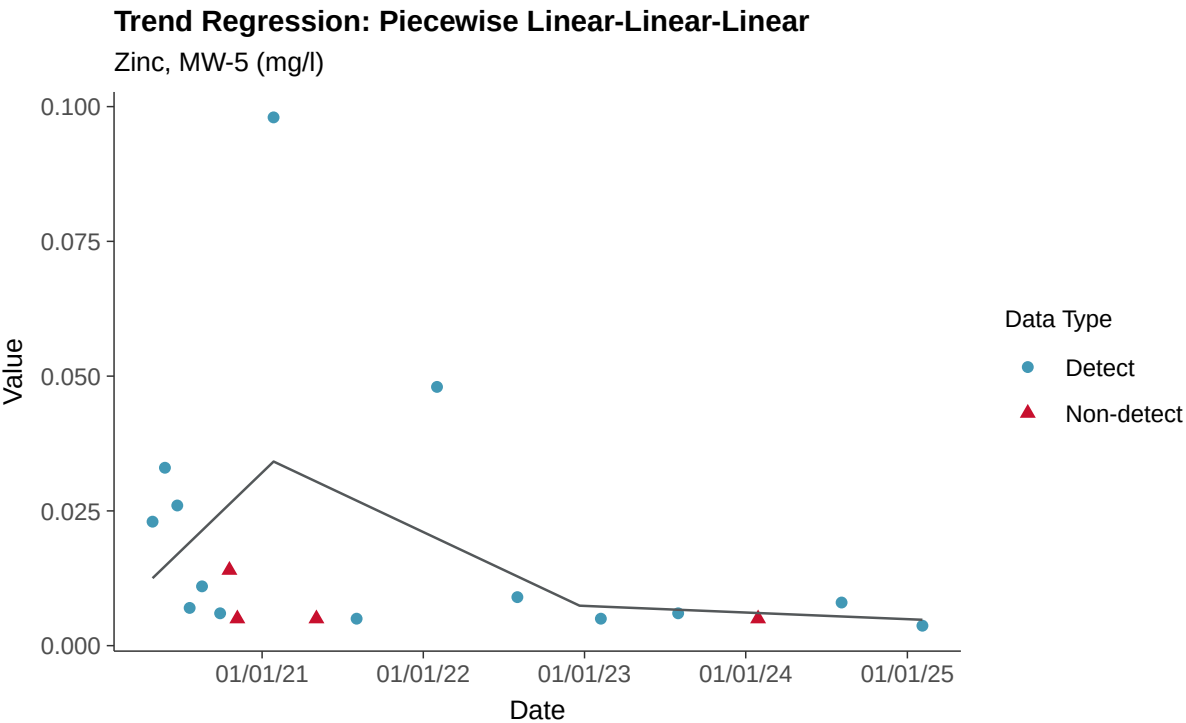
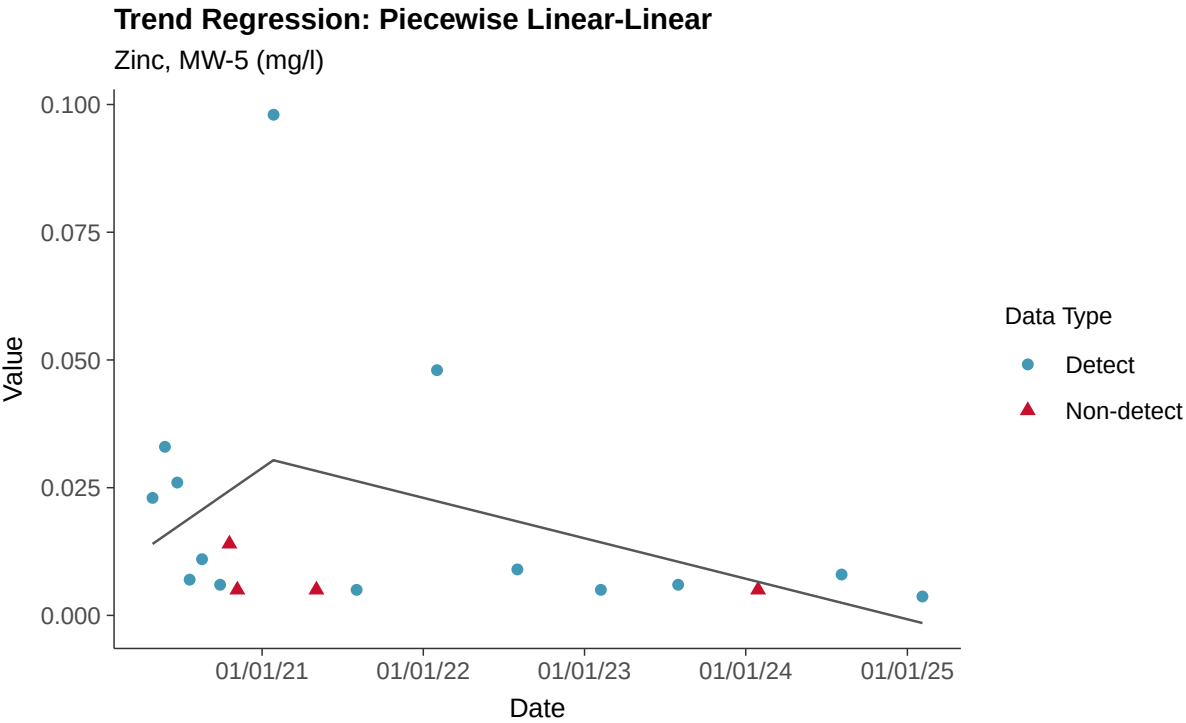


Zinc, MW-5 (mg/l)



Zinc, MW-5 (mg/l)

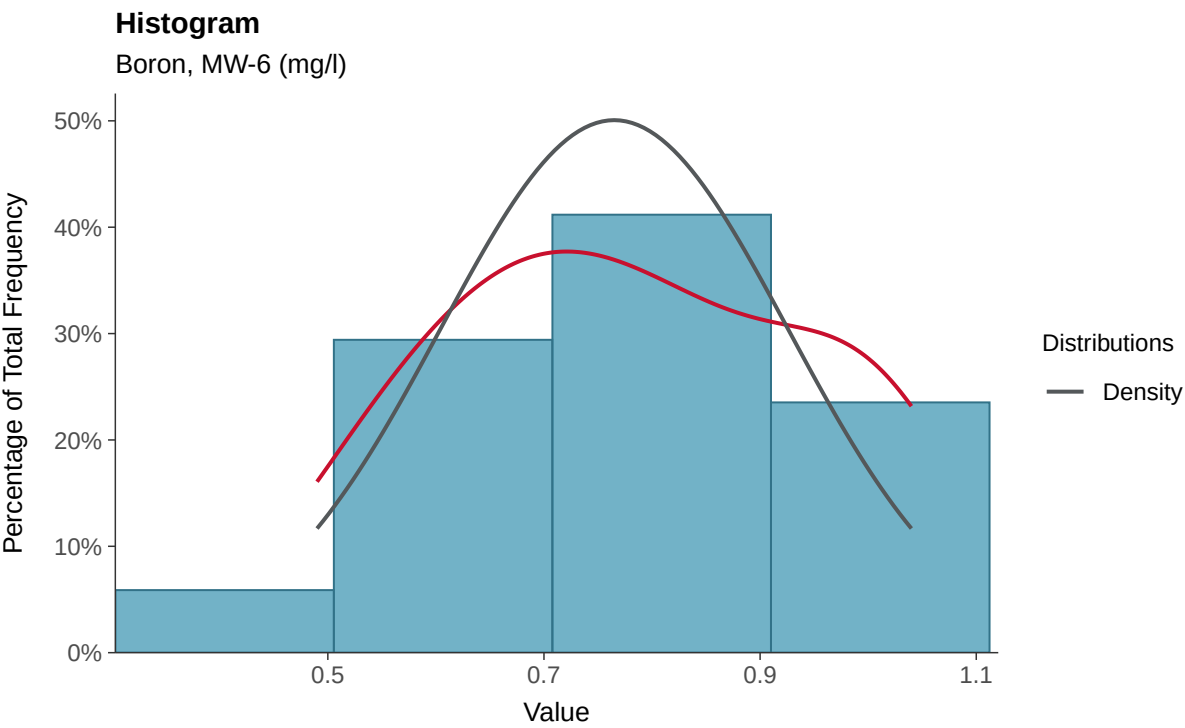
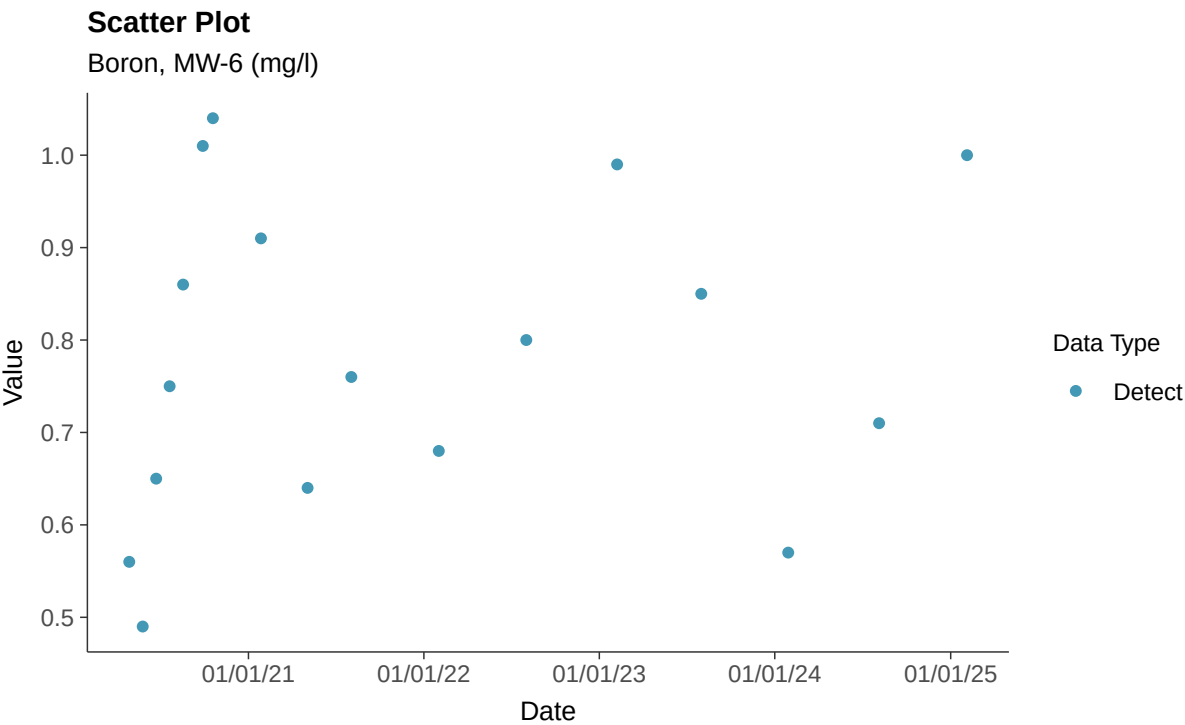


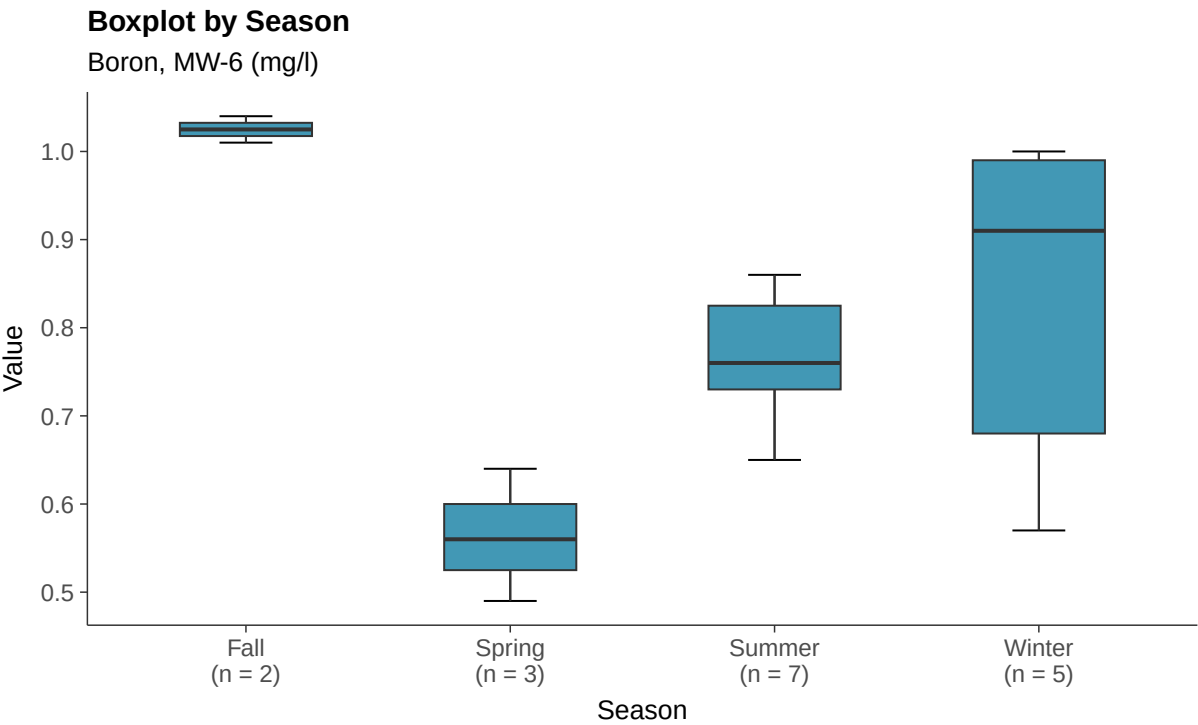
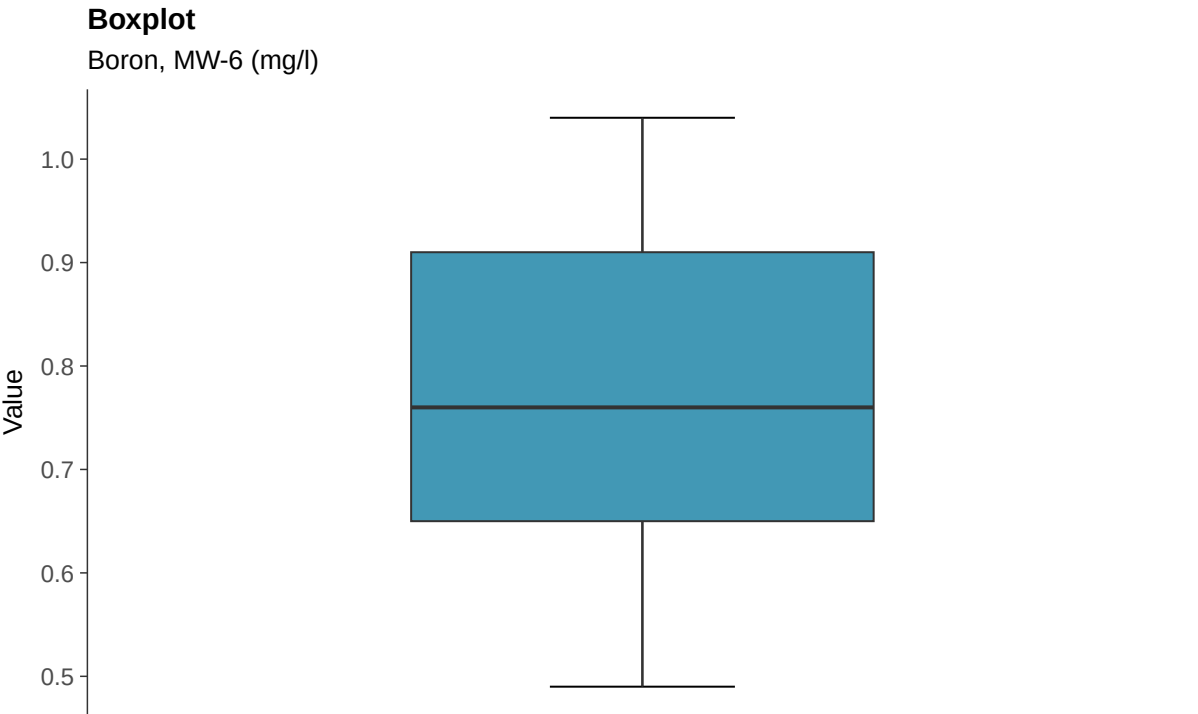


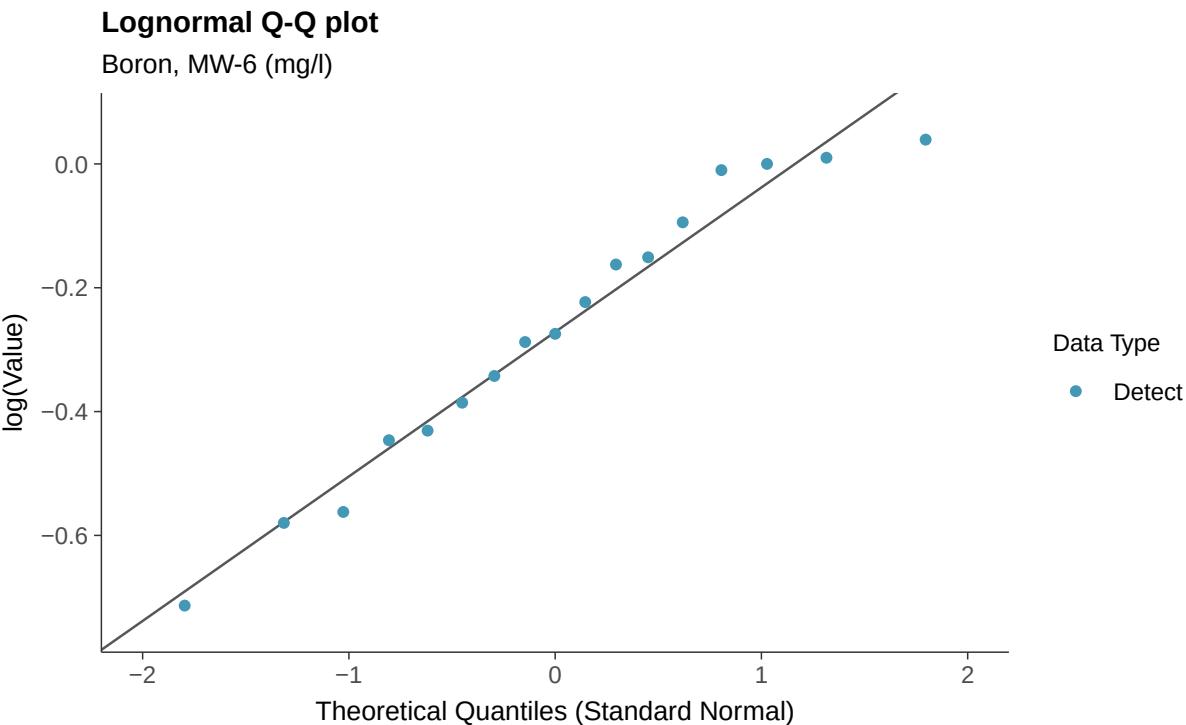
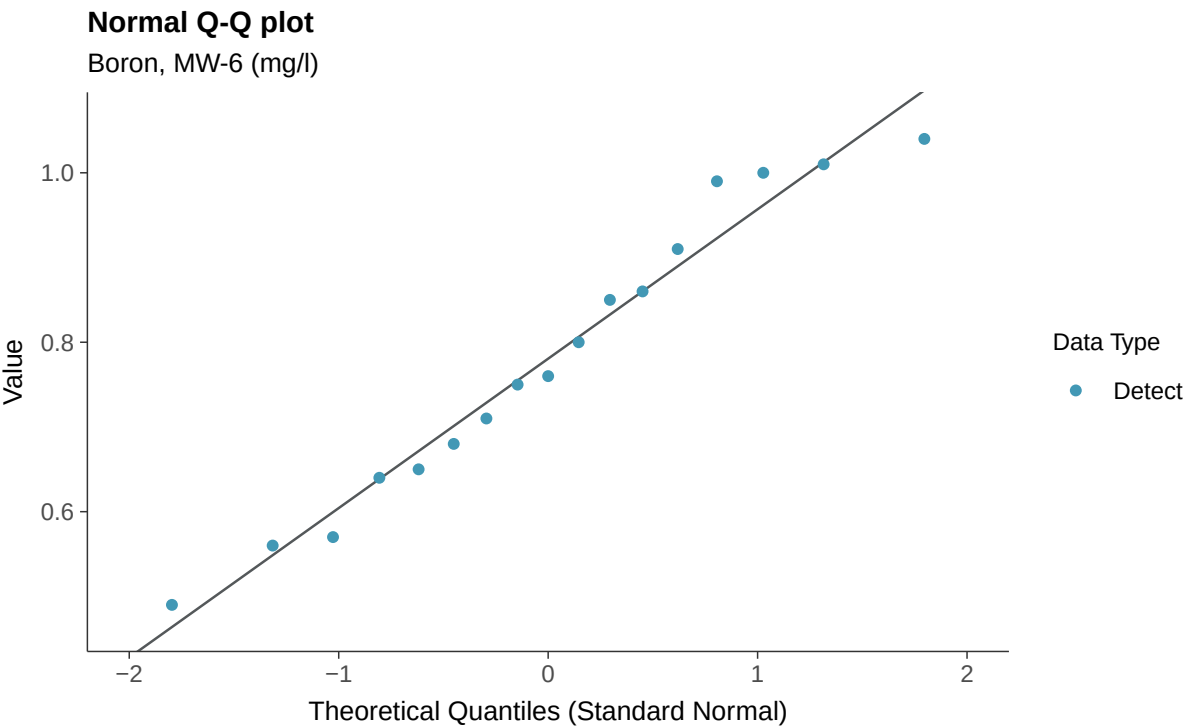


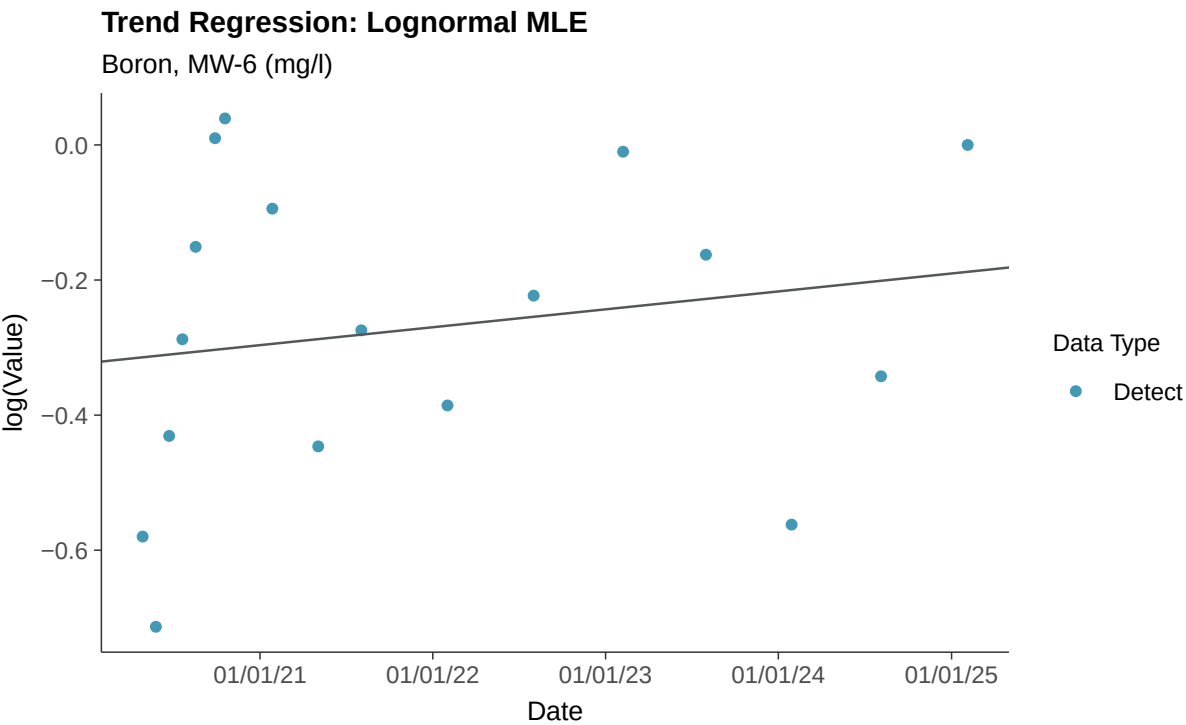
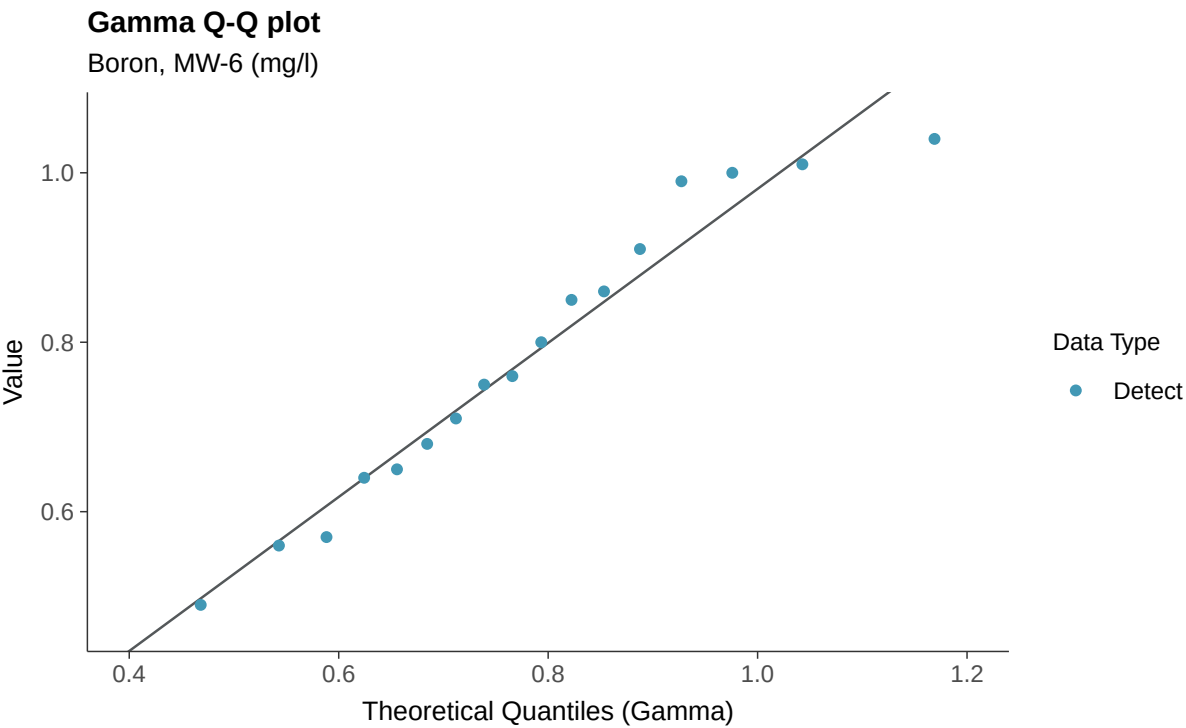
Appendix III: Boron, MW-6

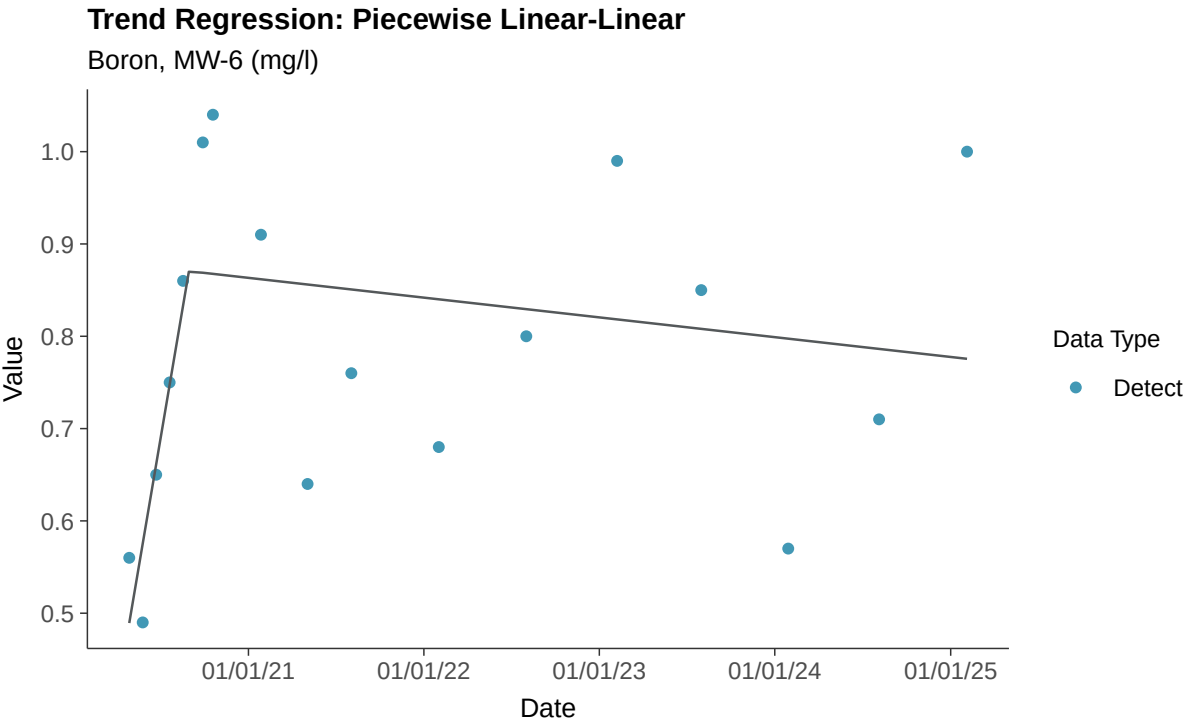
ID: 14_2_105







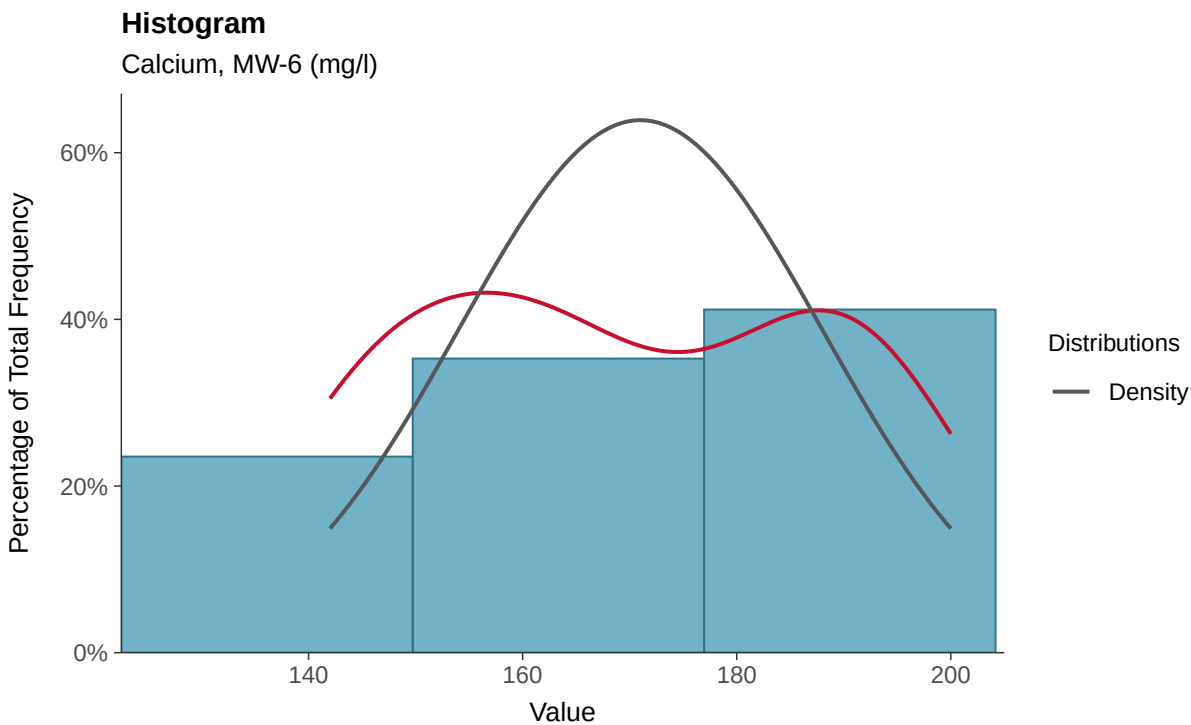
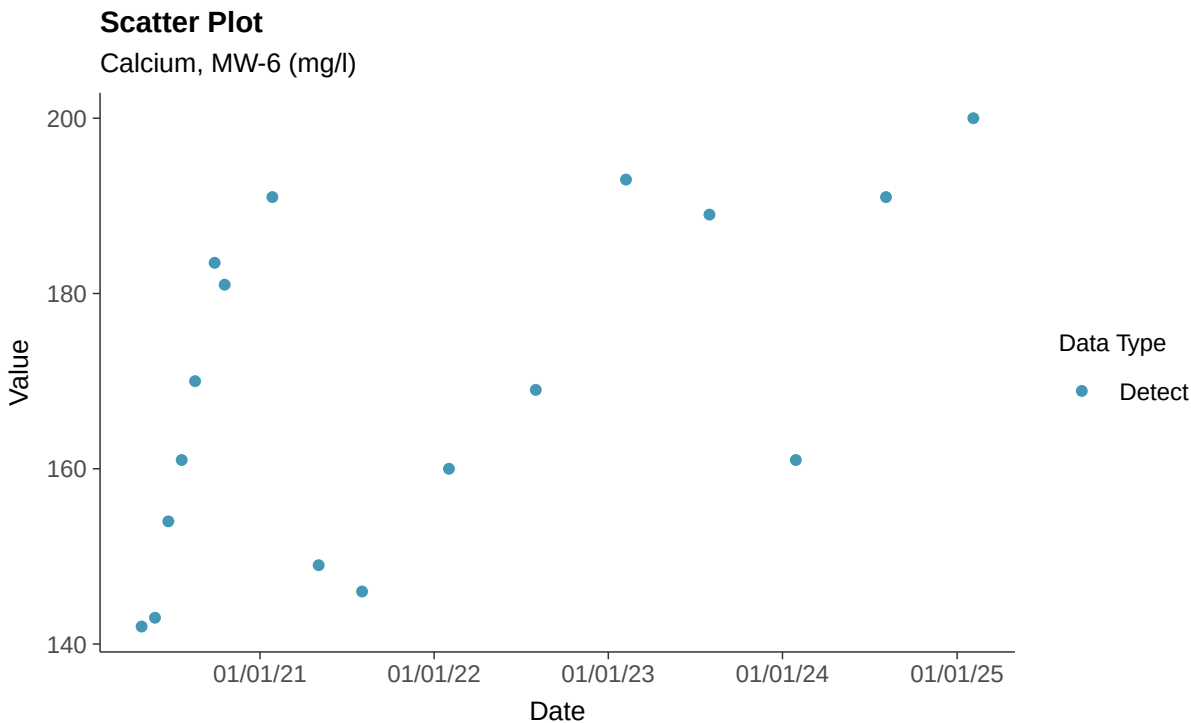


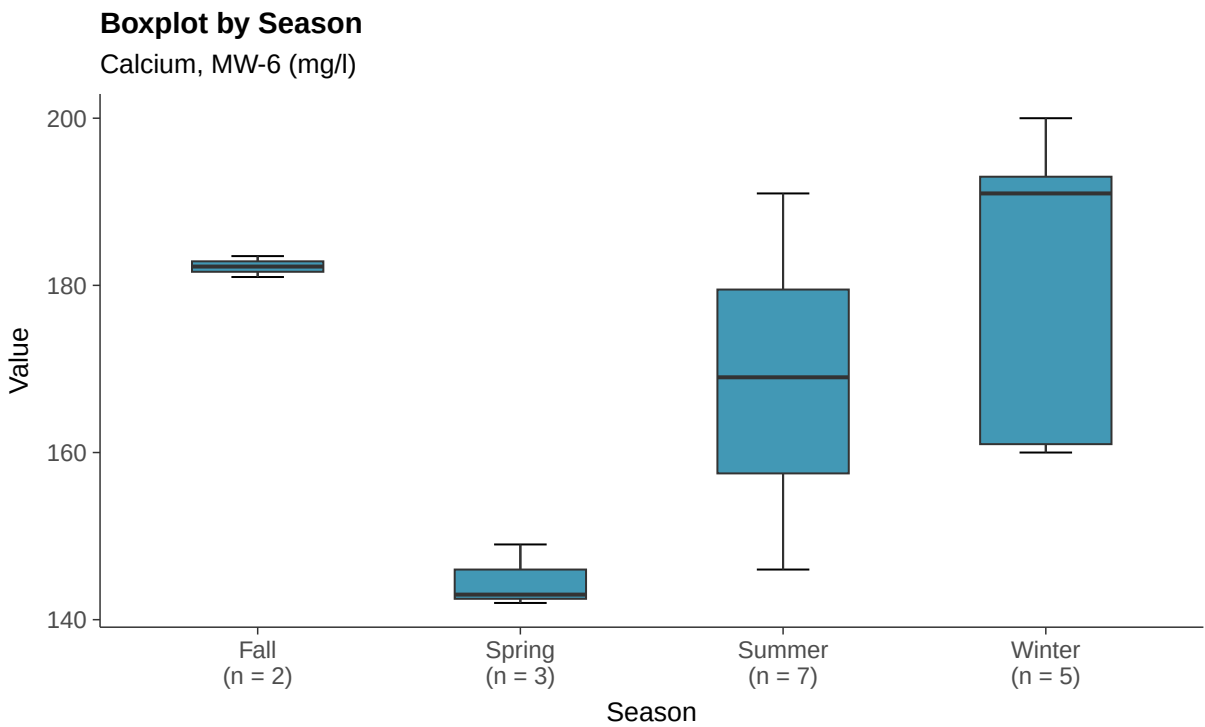
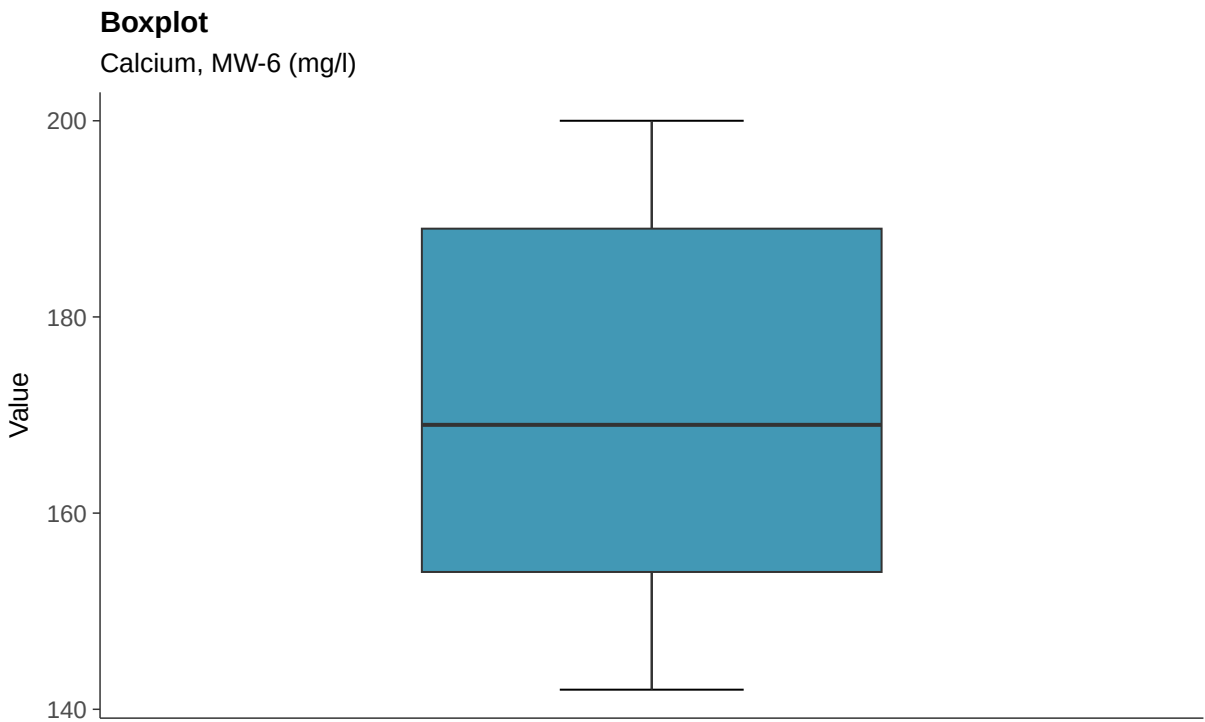


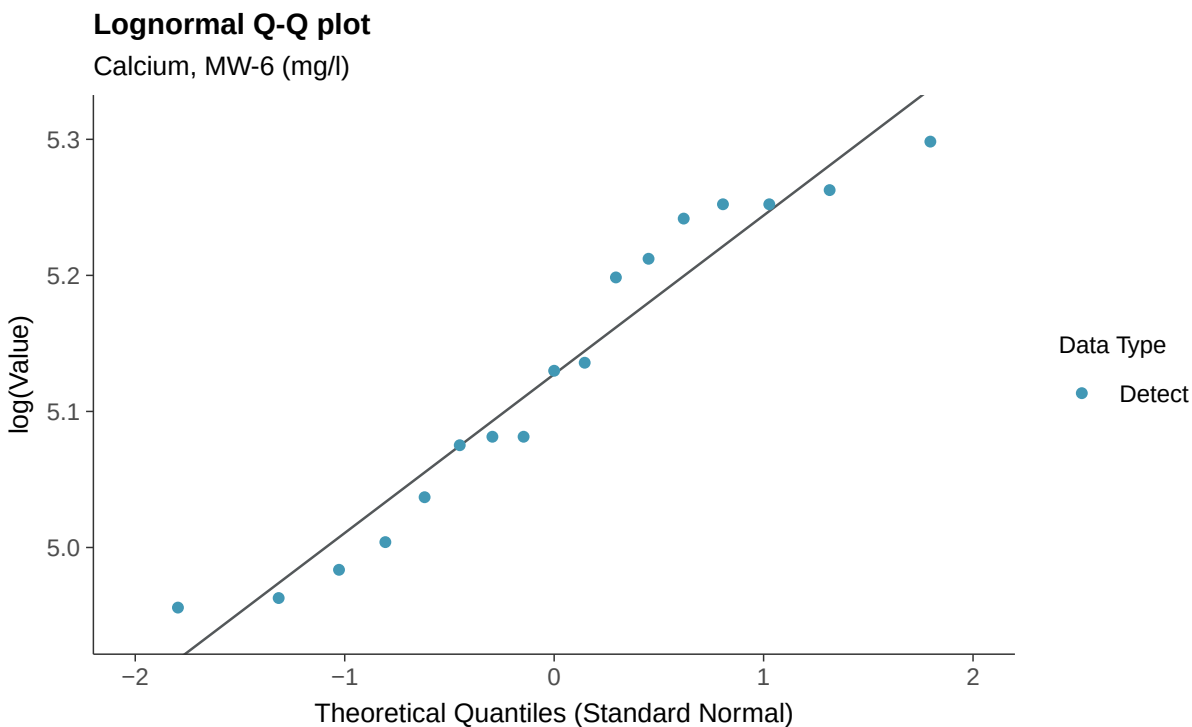
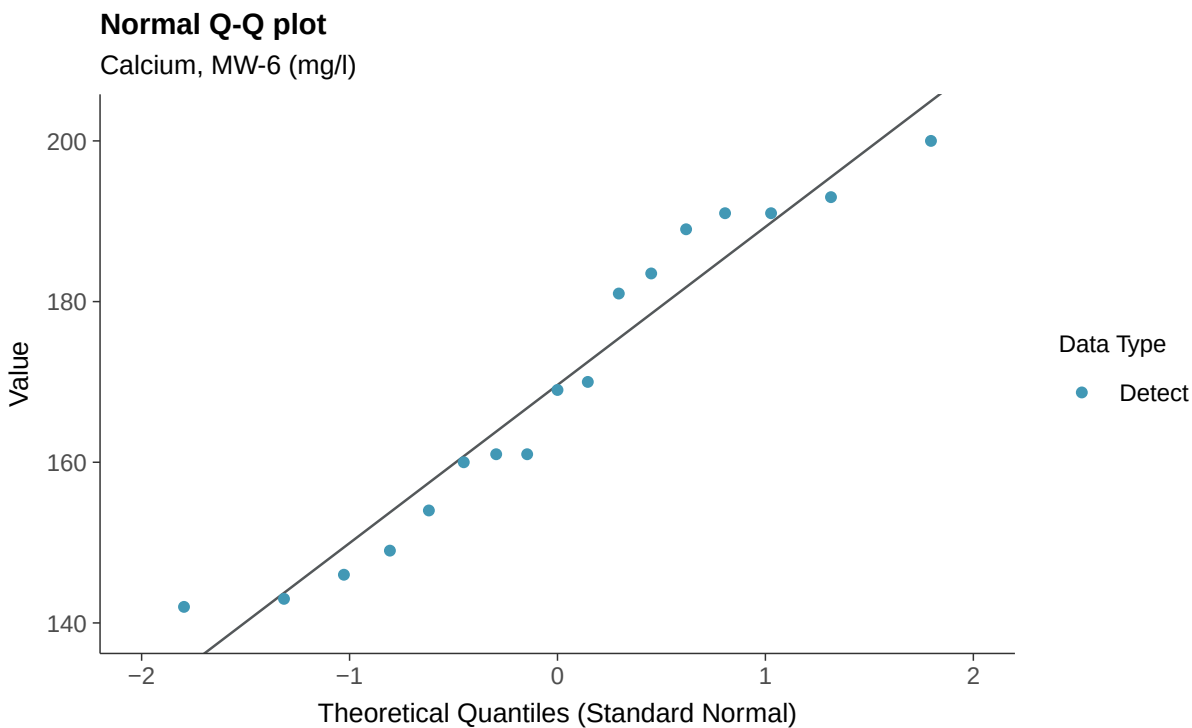


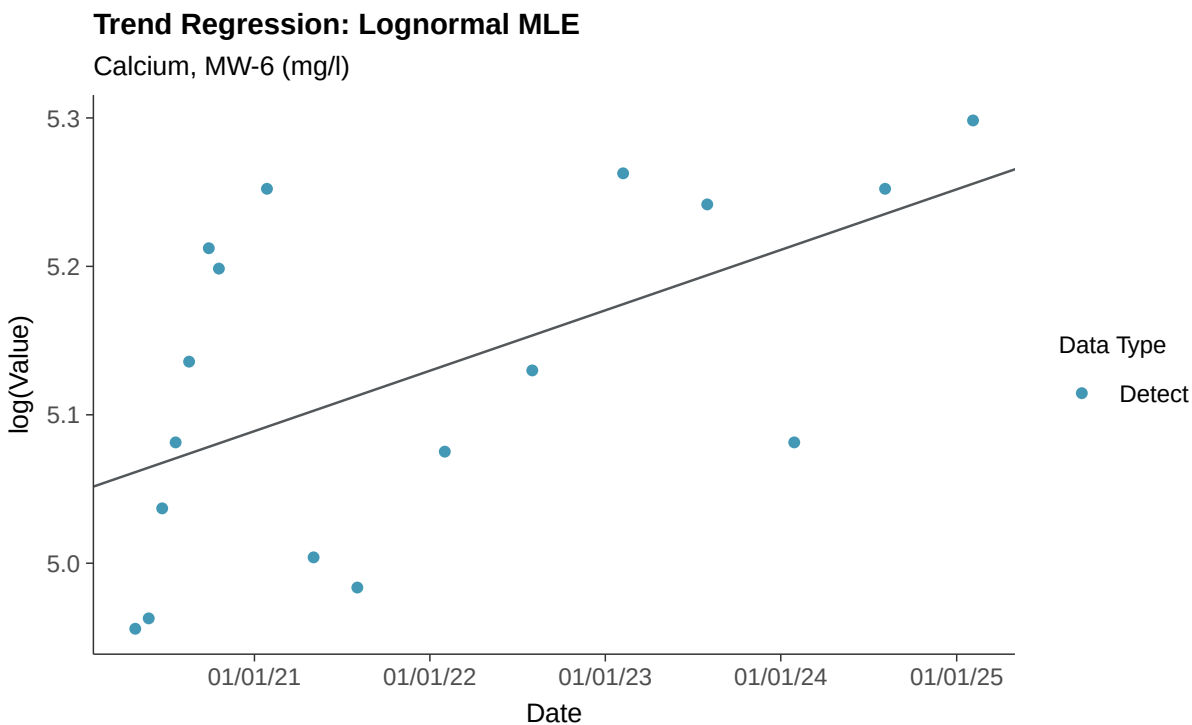
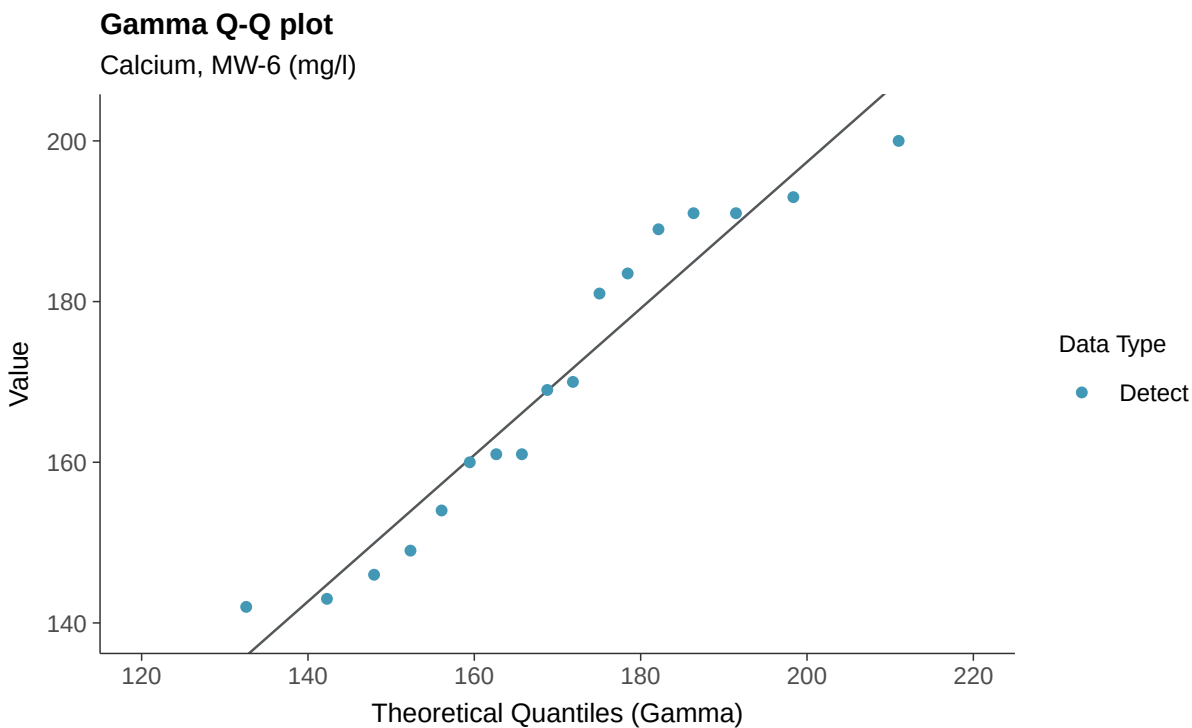
Appendix III: Calcium, MW-6

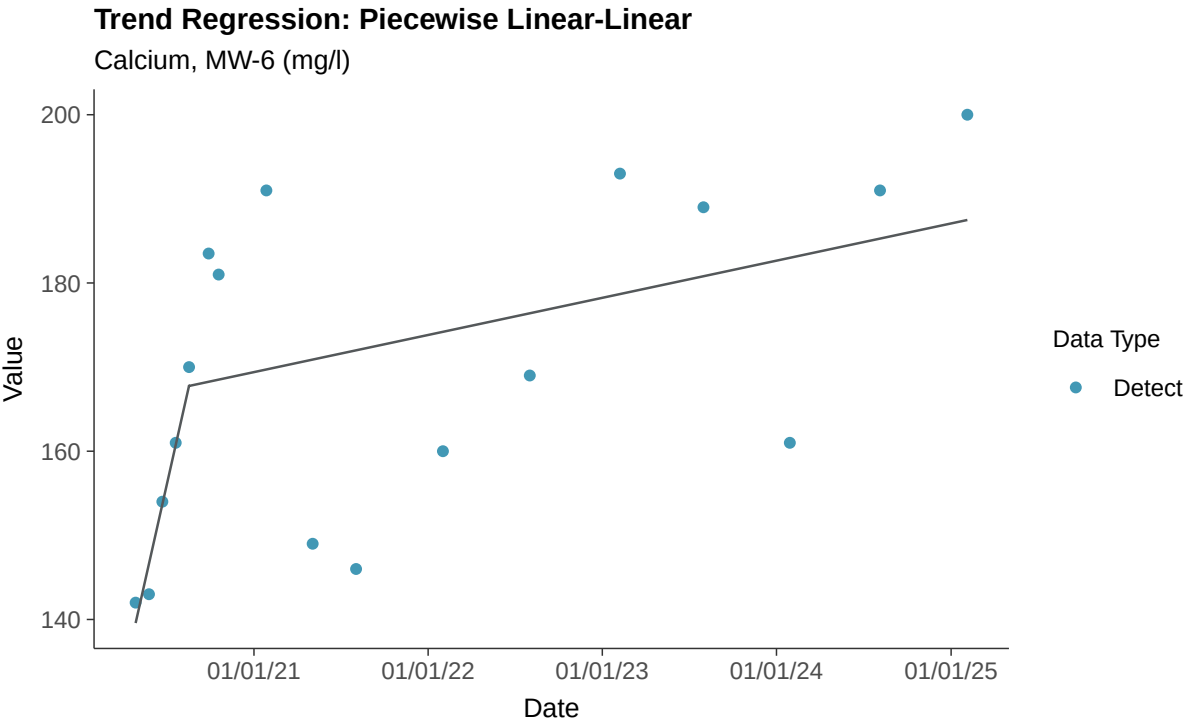
ID: 14_2_107







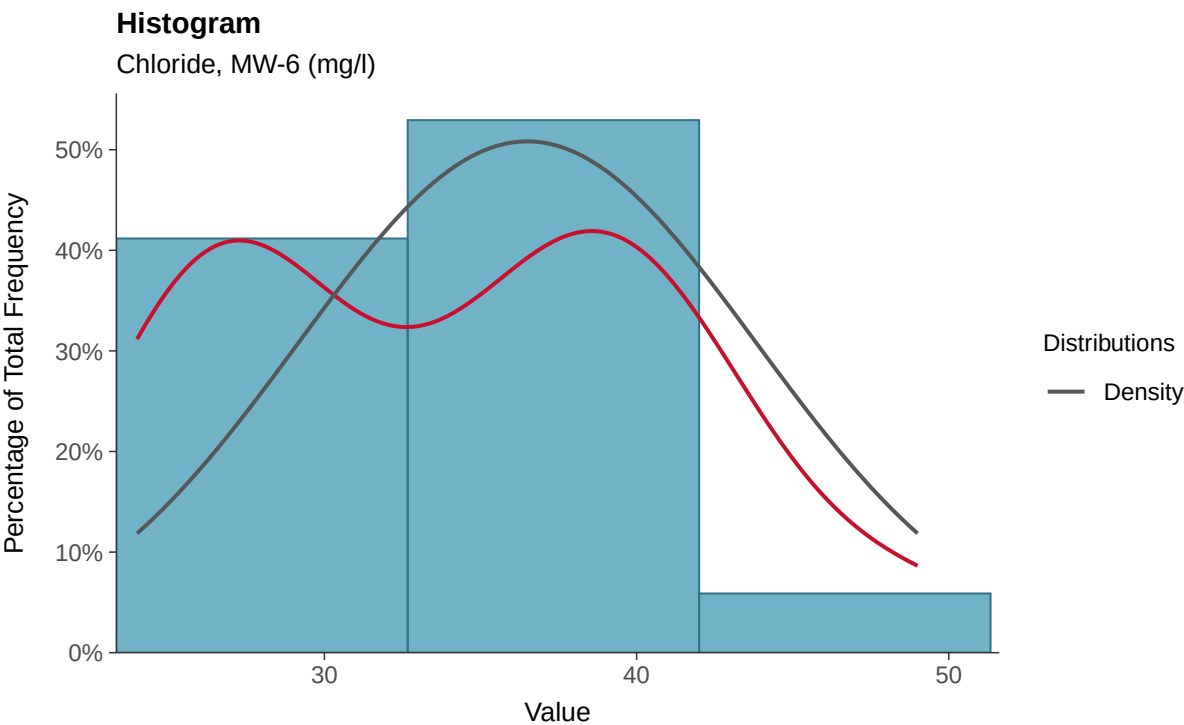
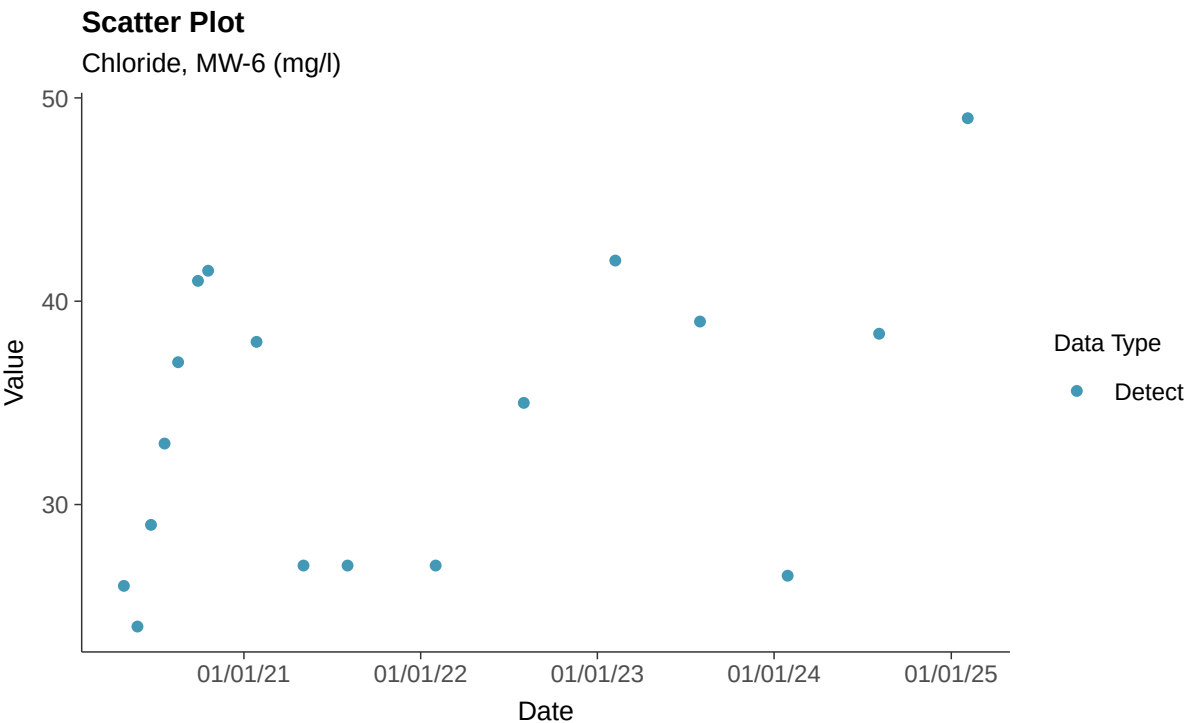


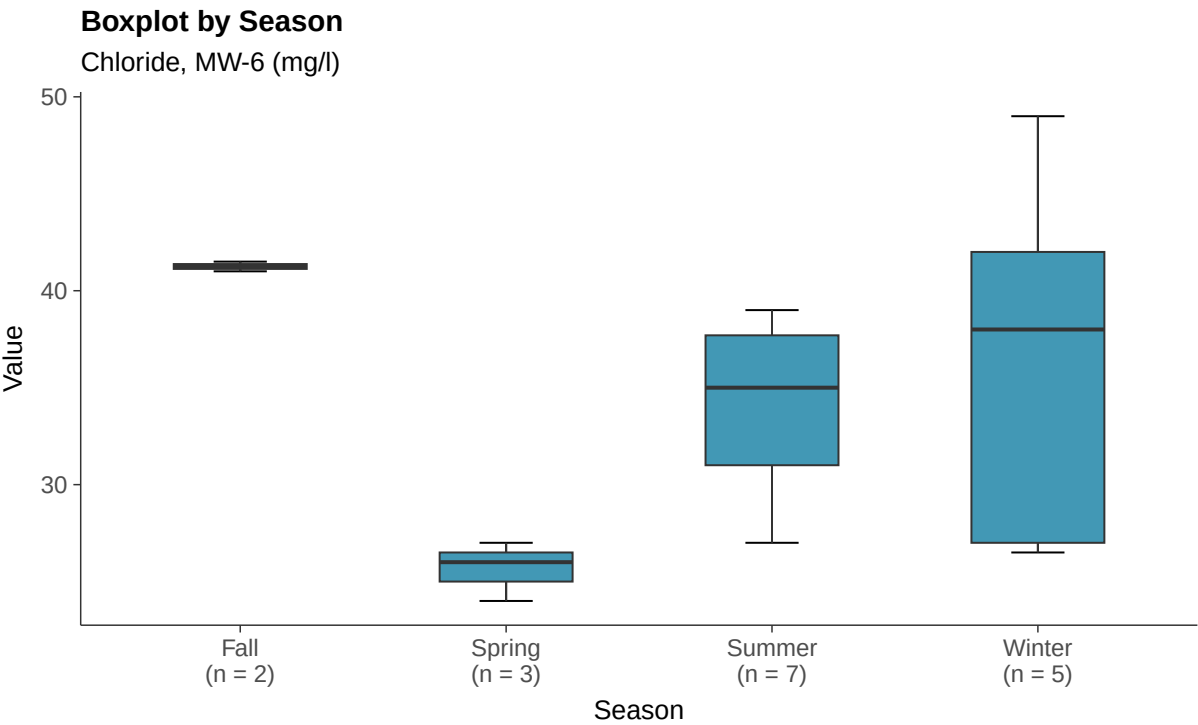
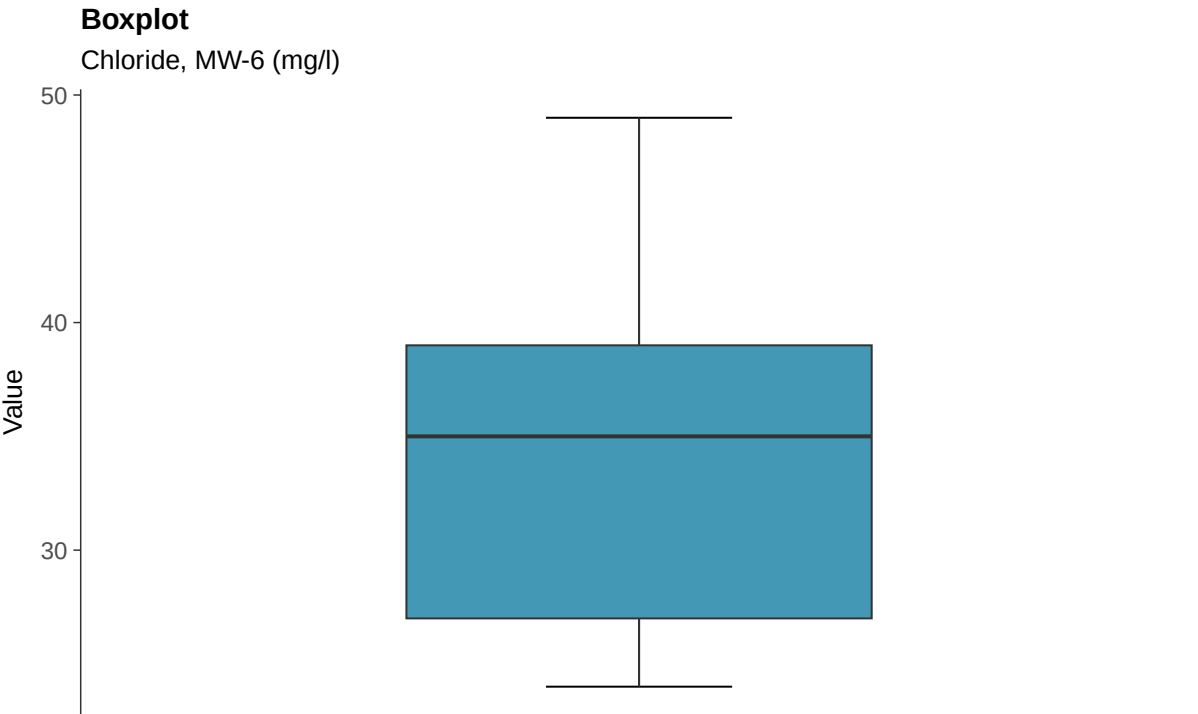


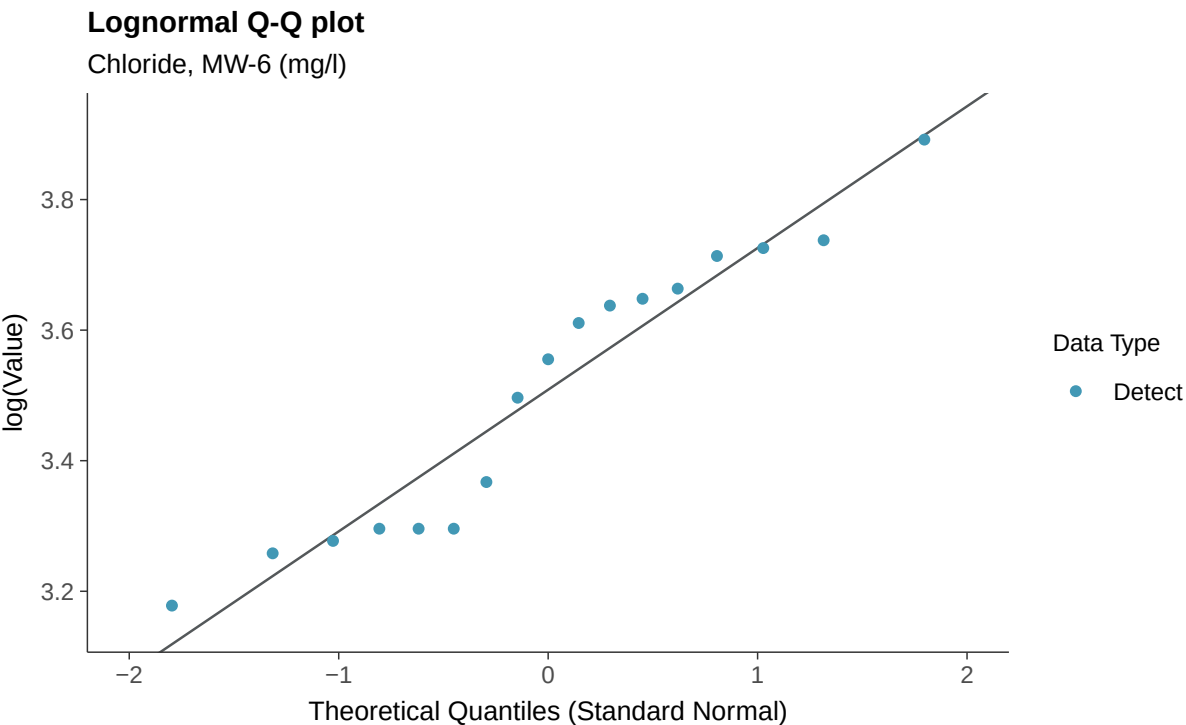
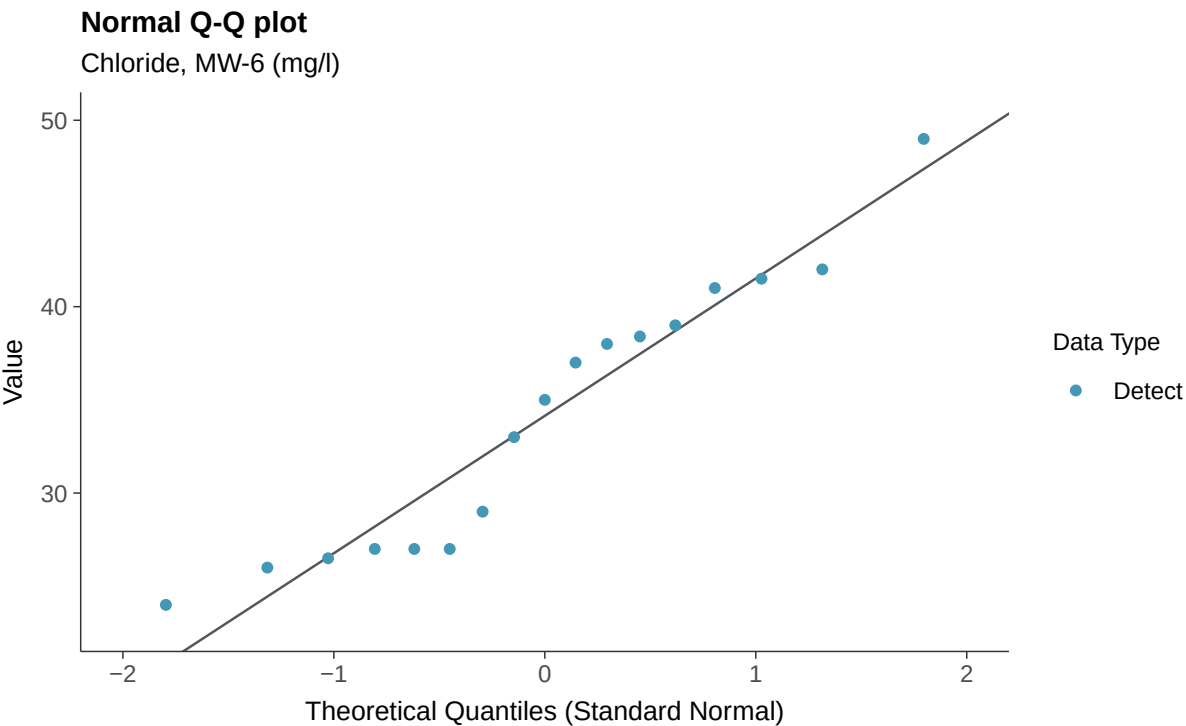


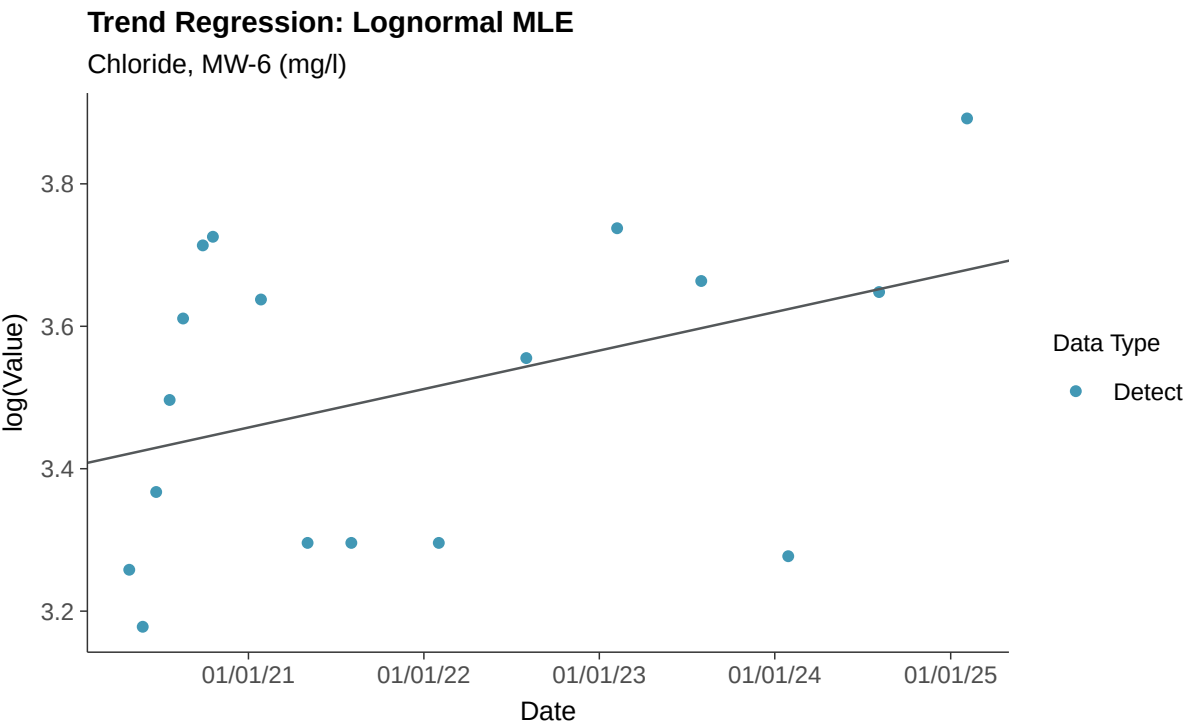
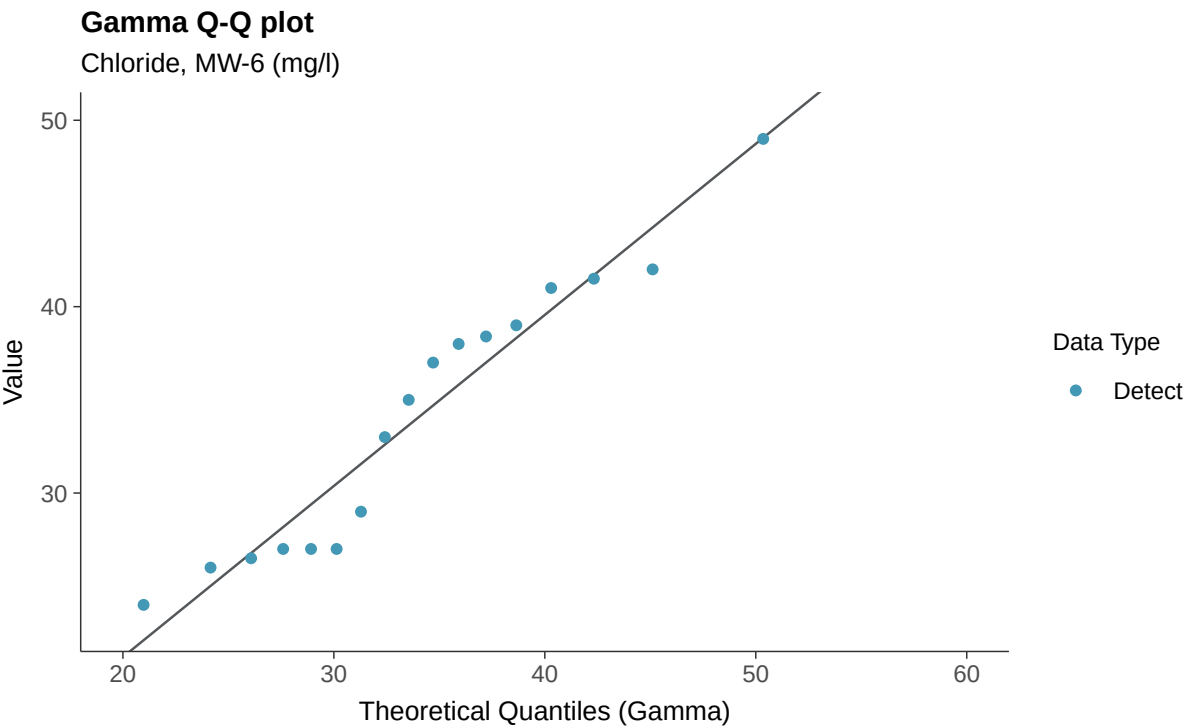
Appendix III: Chloride, MW-6

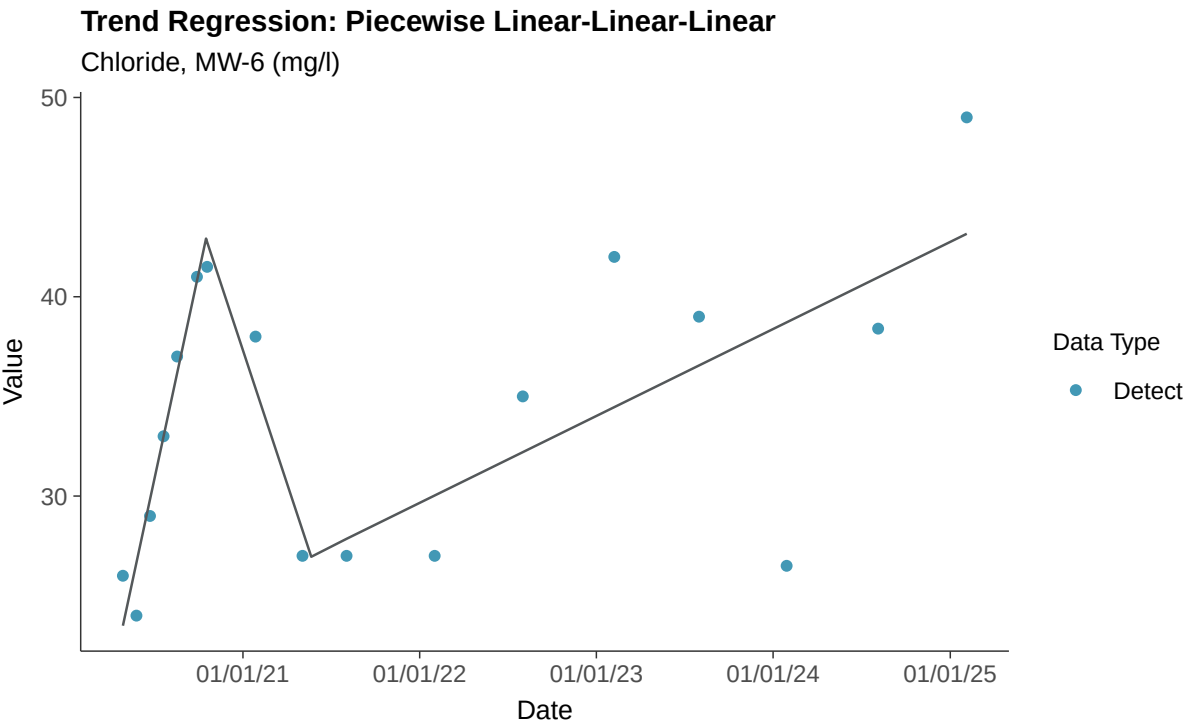
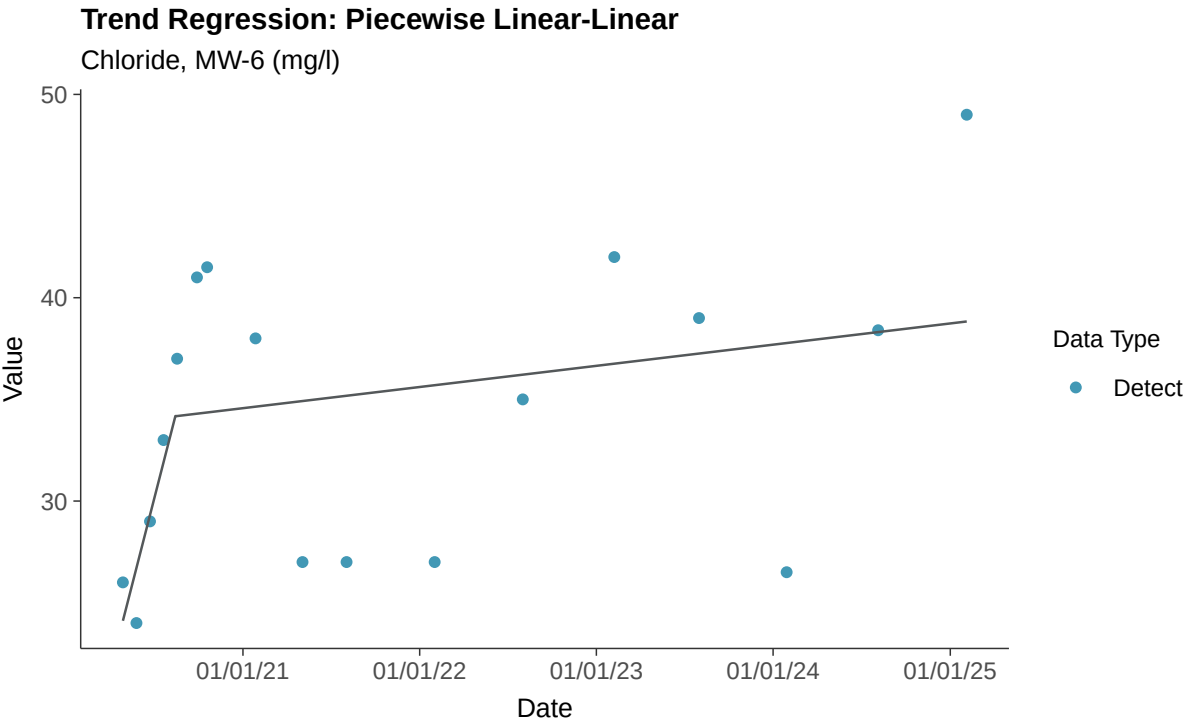
ID: 14_2_108

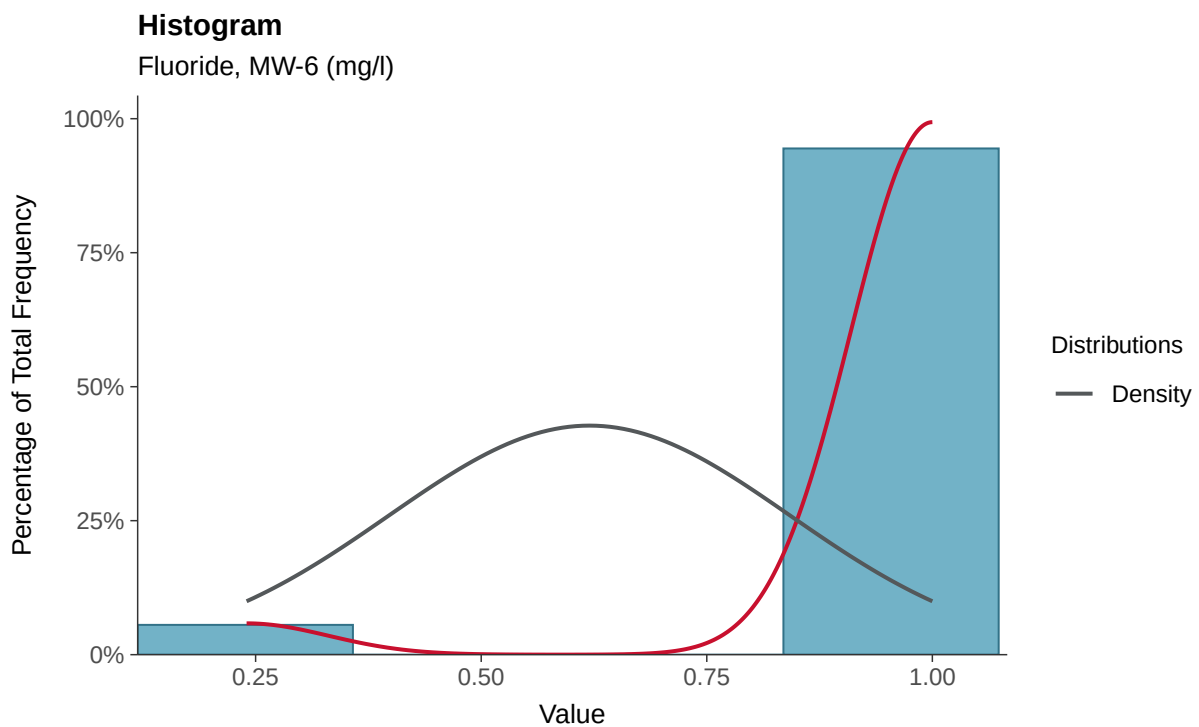


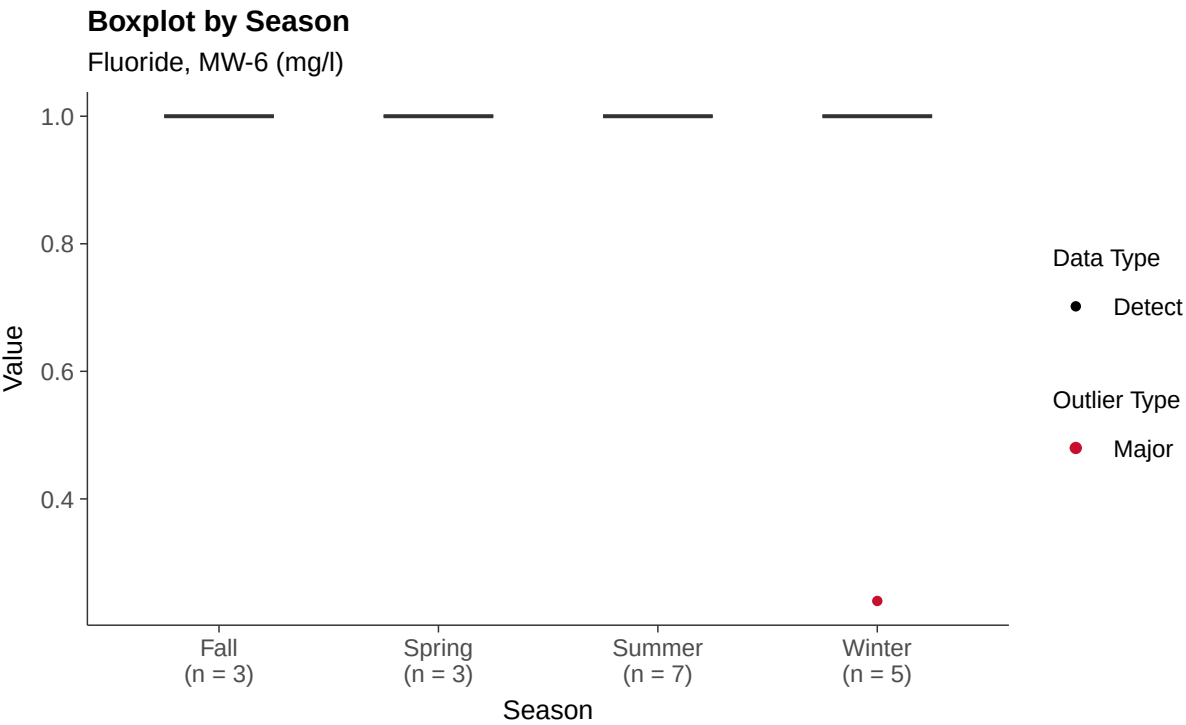
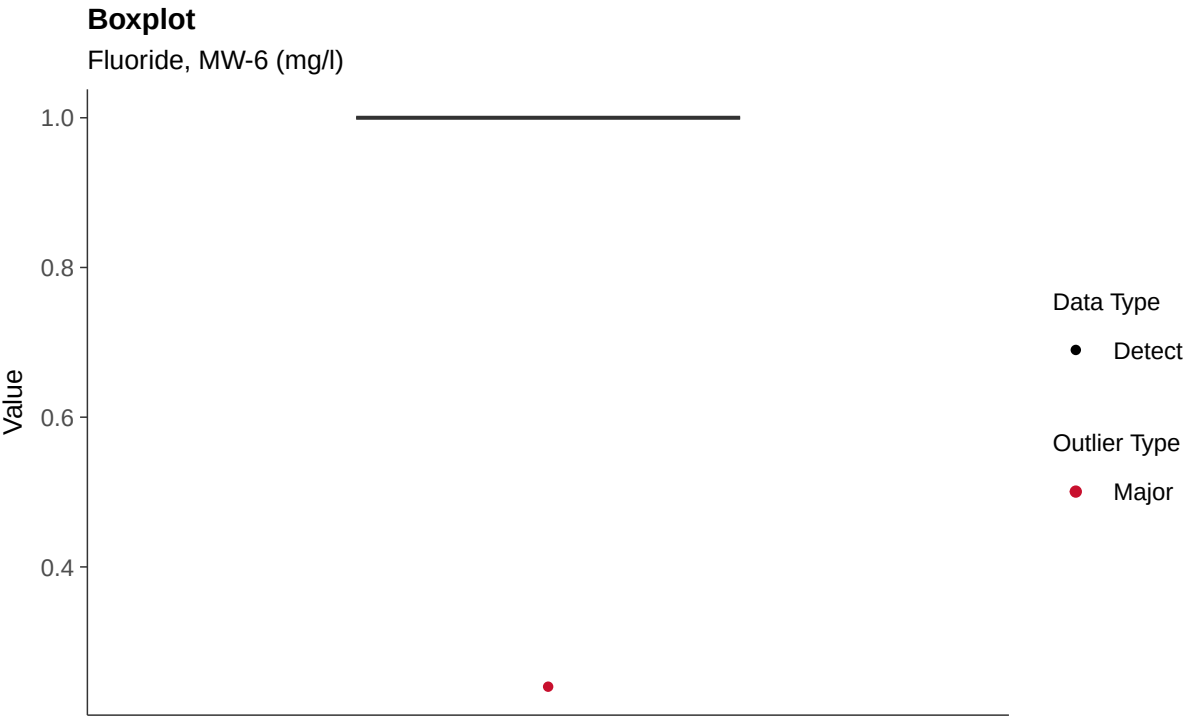








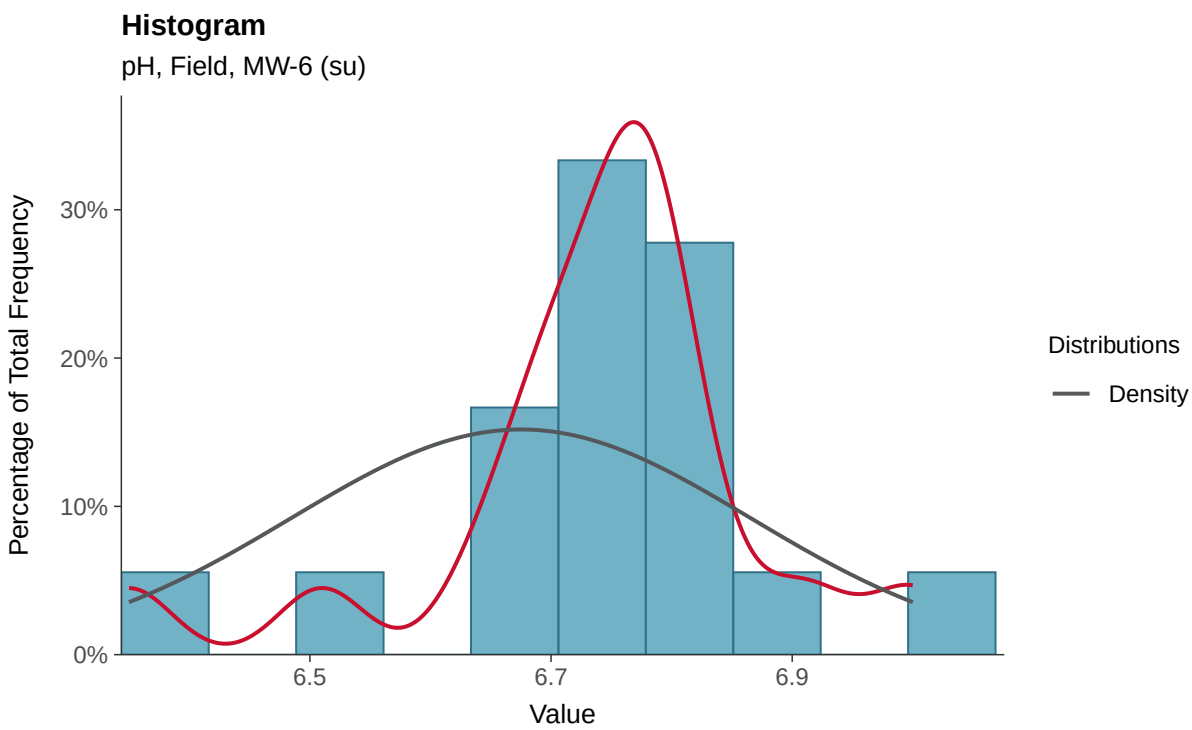
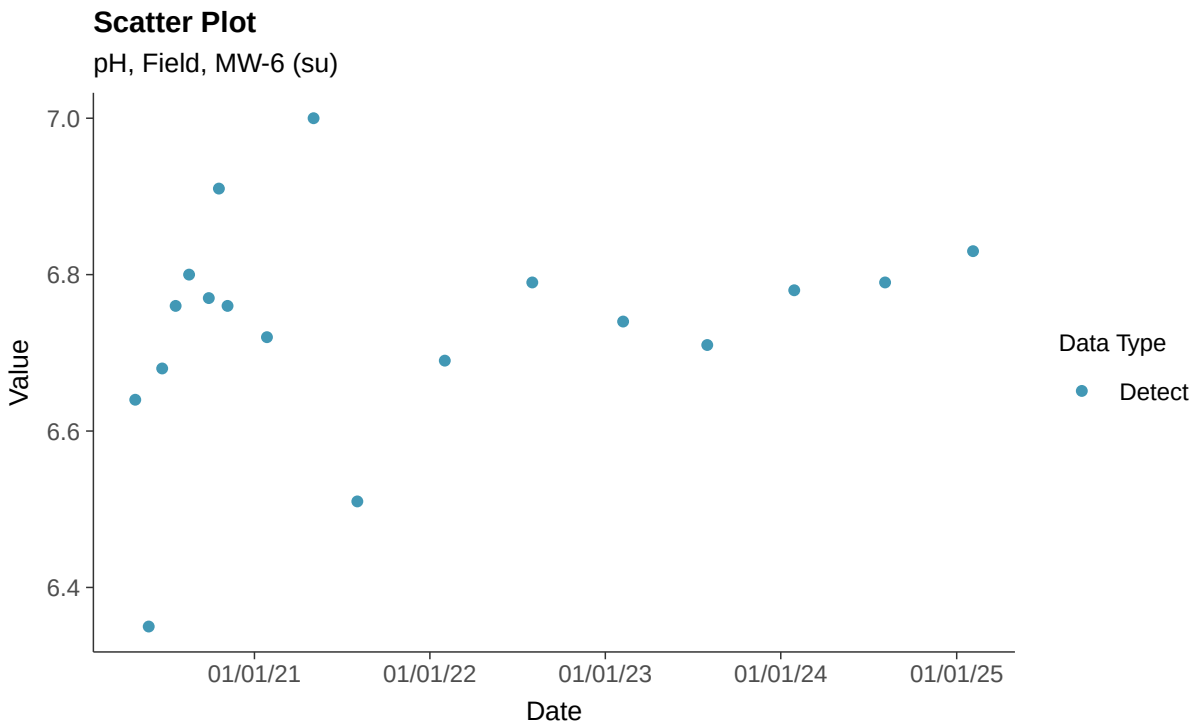


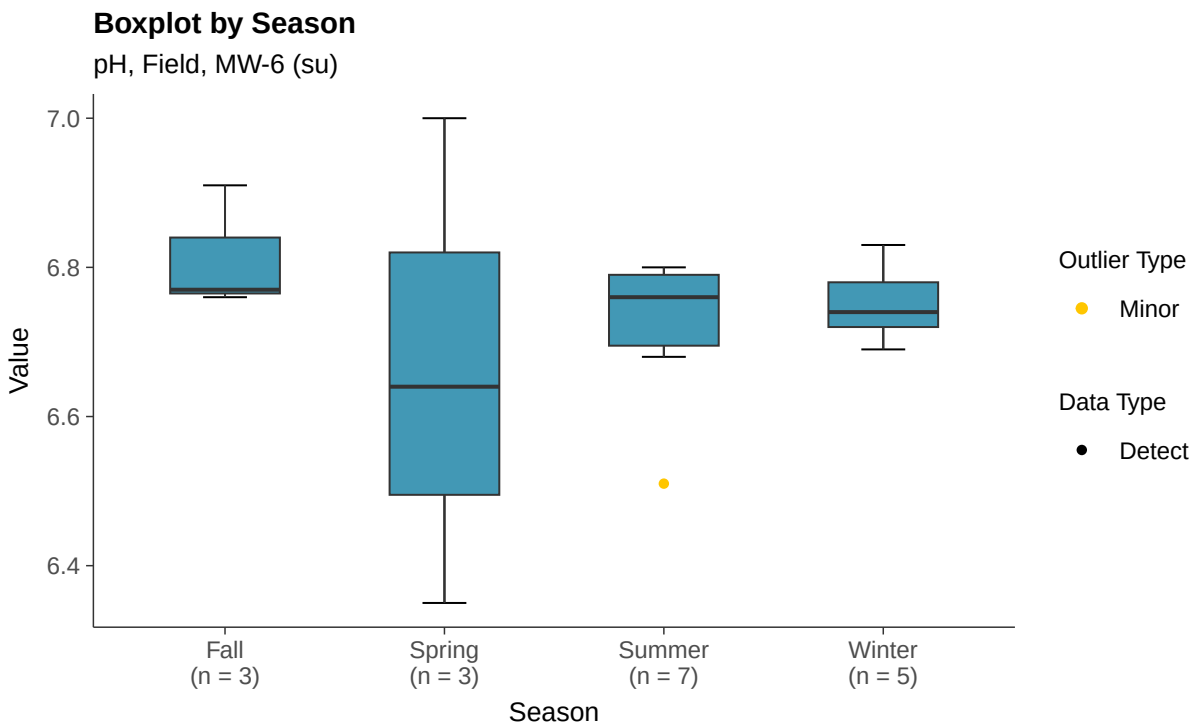
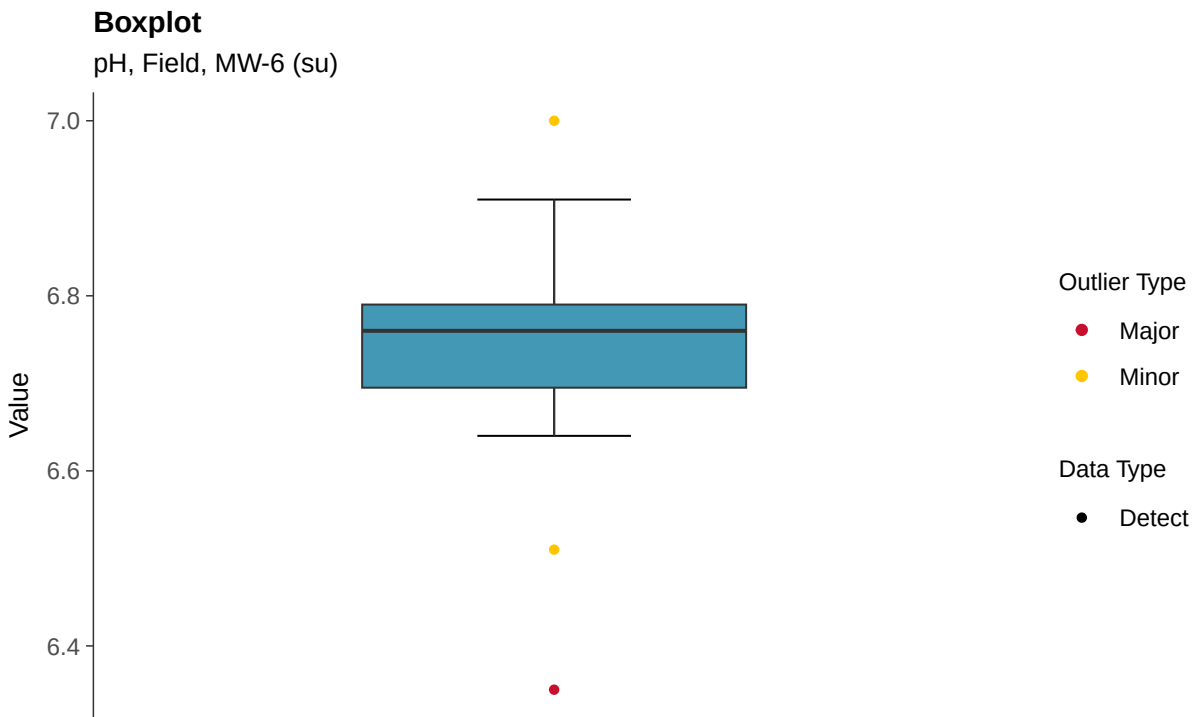


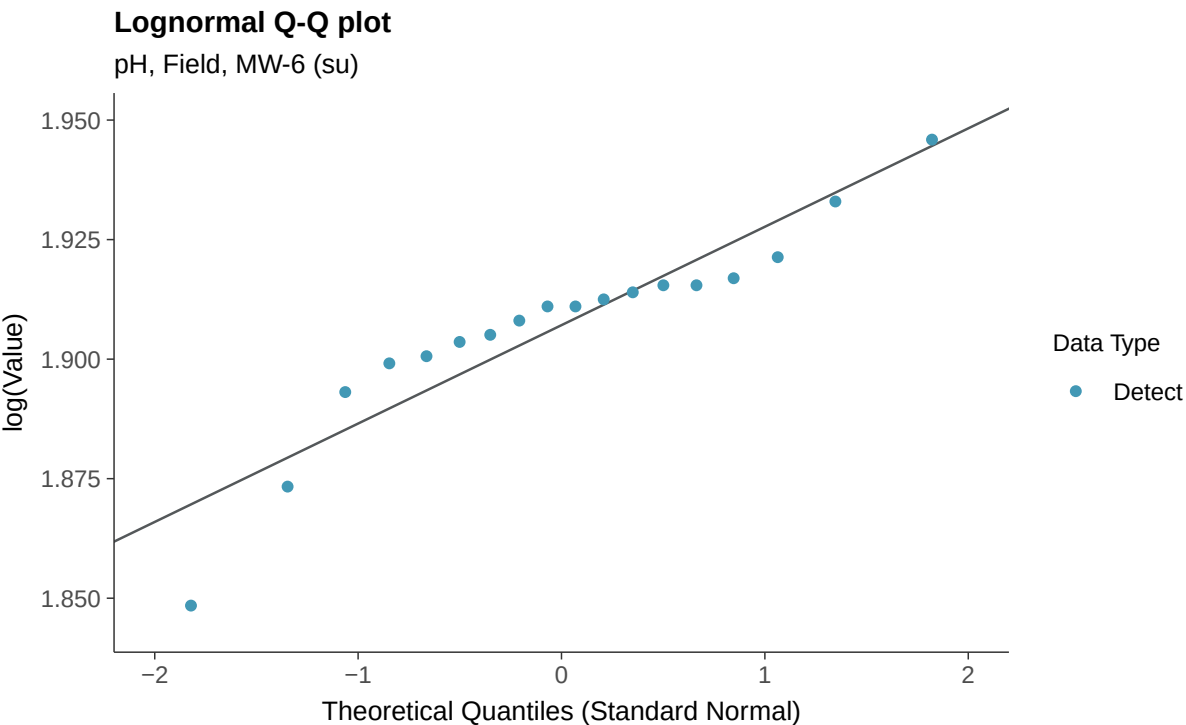
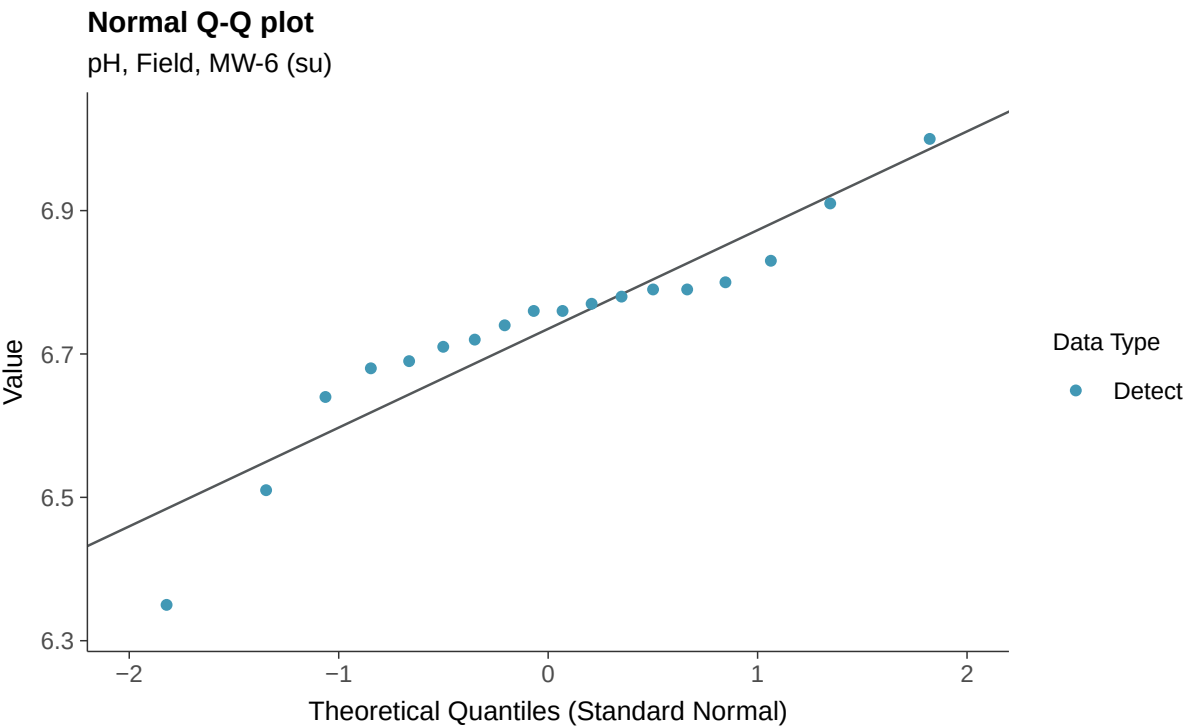


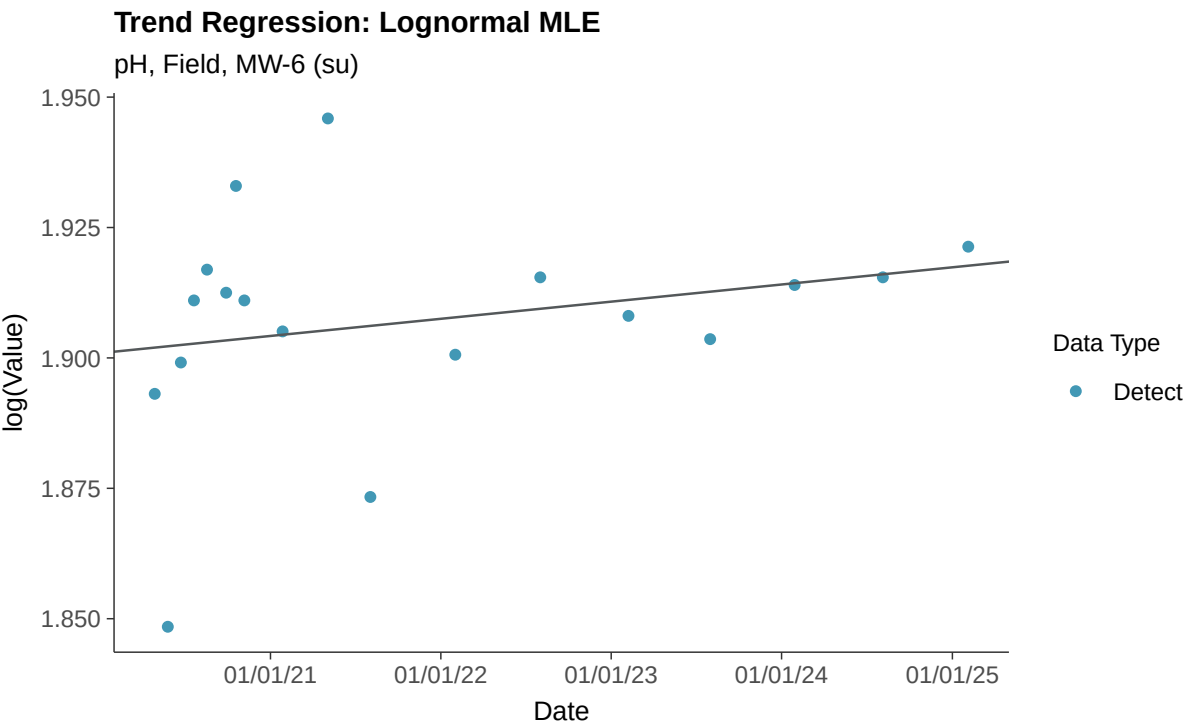
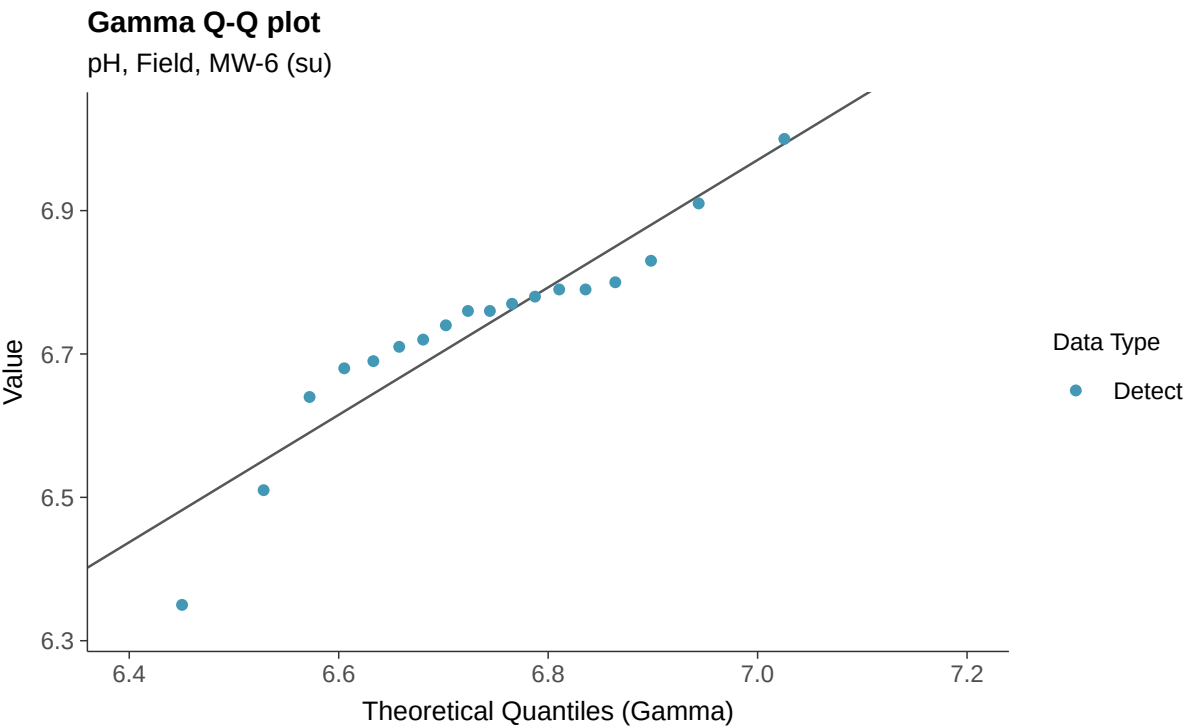
Appendix III: pH, Field, MW-6

ID: 14_2_120





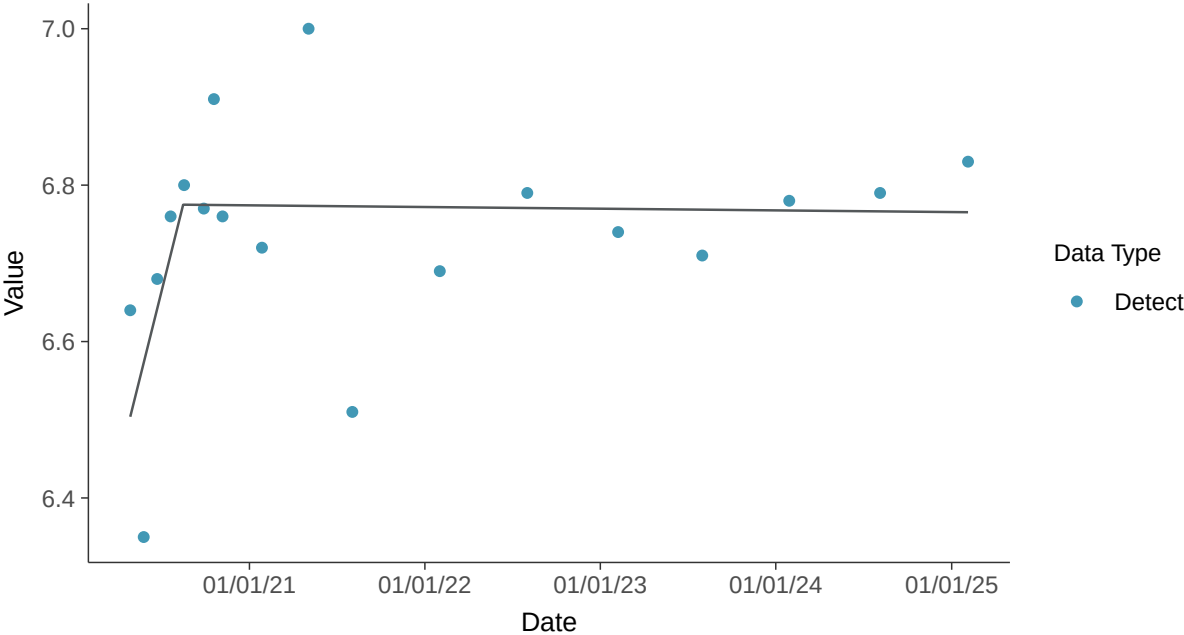






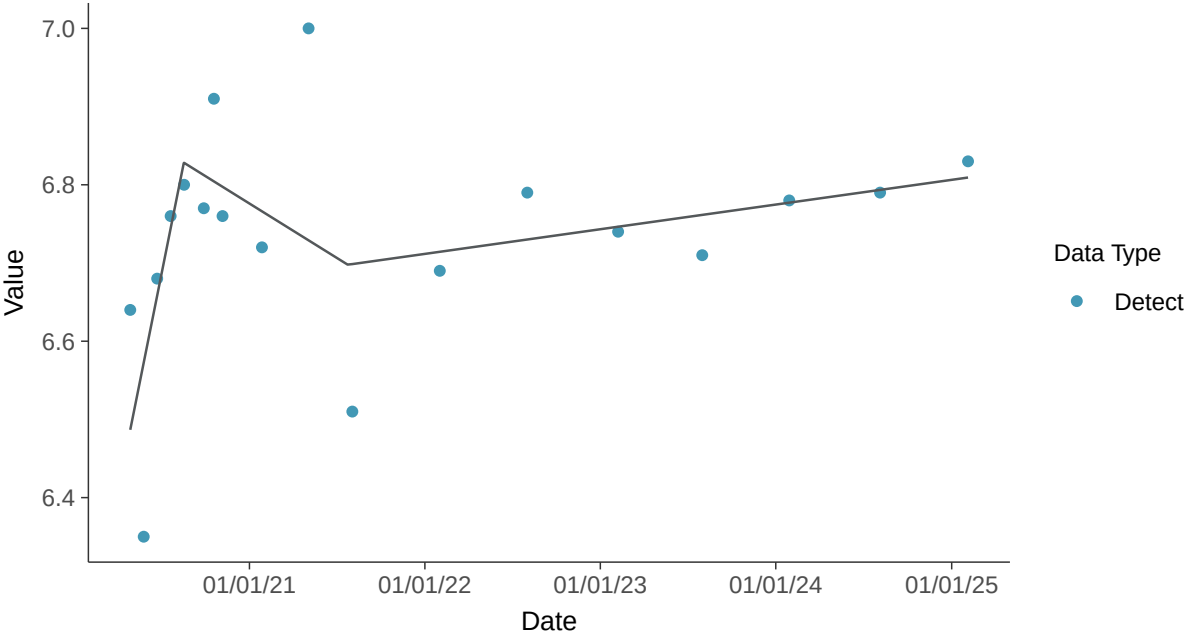
Trend Regression: Piecewise Linear-Linear

pH, Field, MW-6 (su)



Trend Regression: Piecewise Linear-Linear-Linear

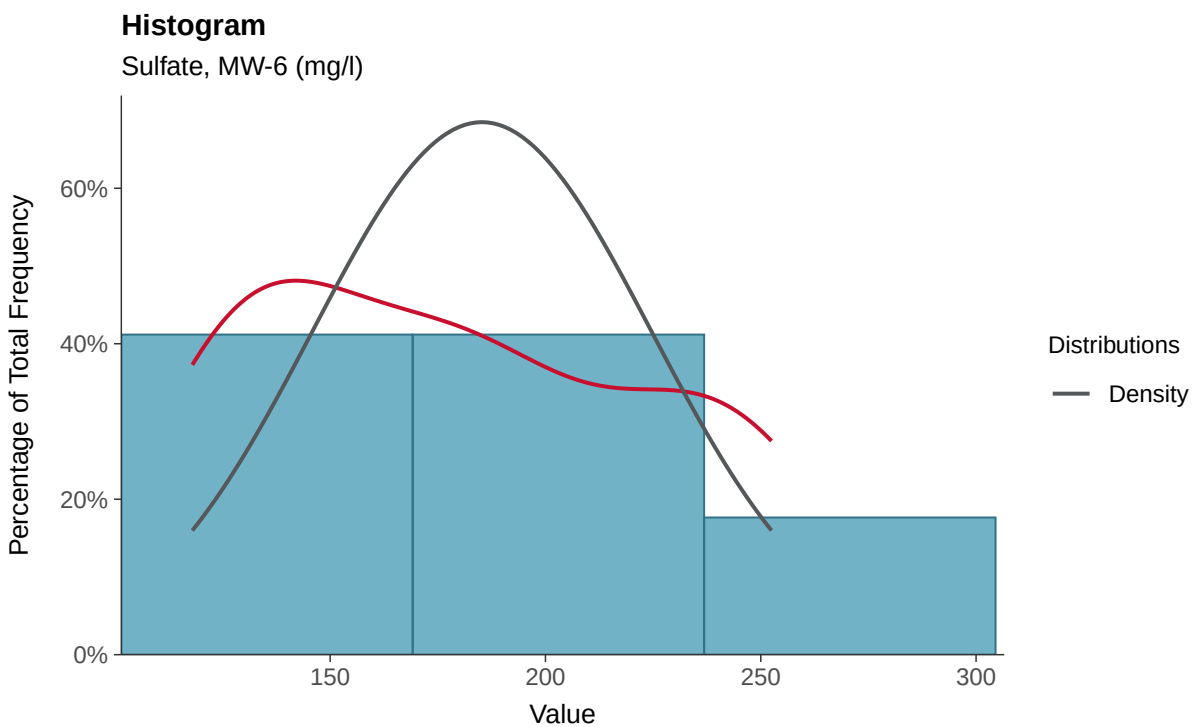
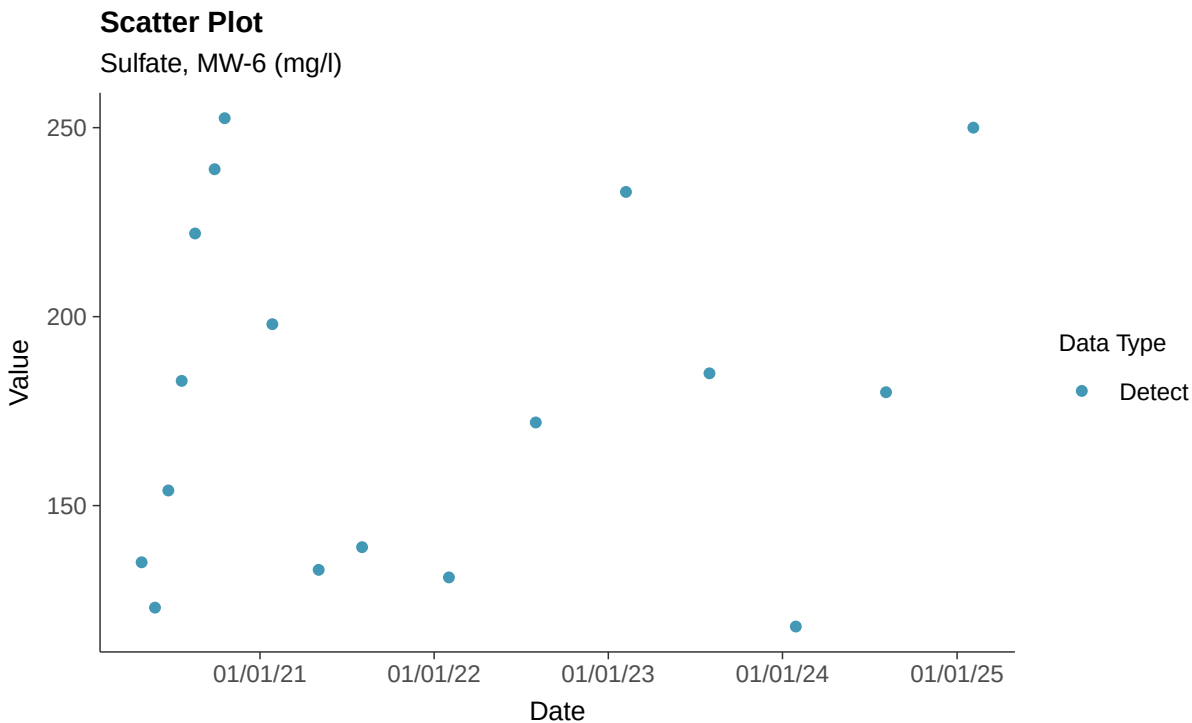
pH, Field, MW-6 (su)

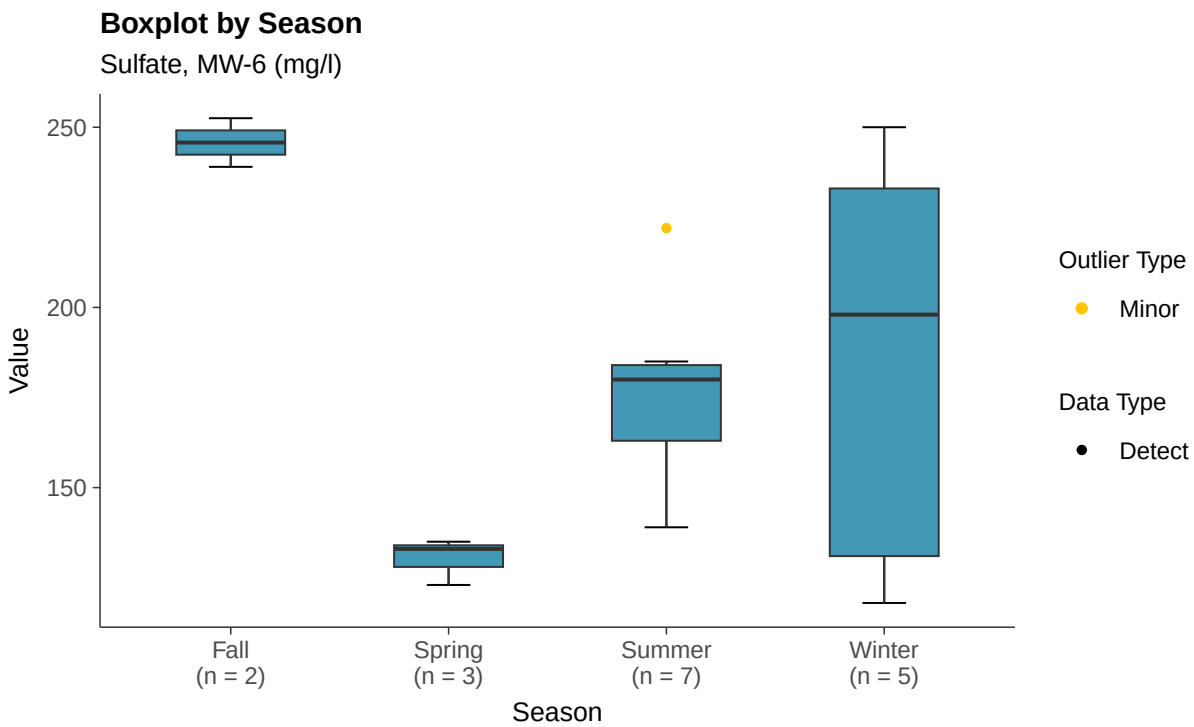
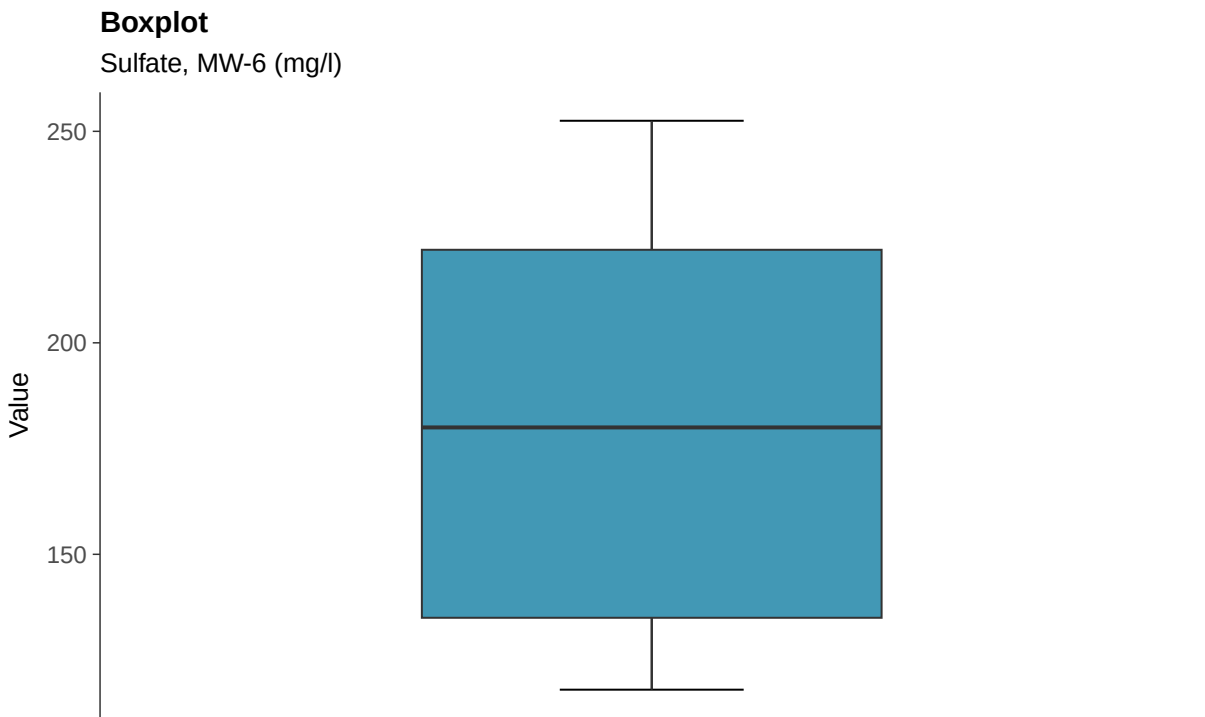


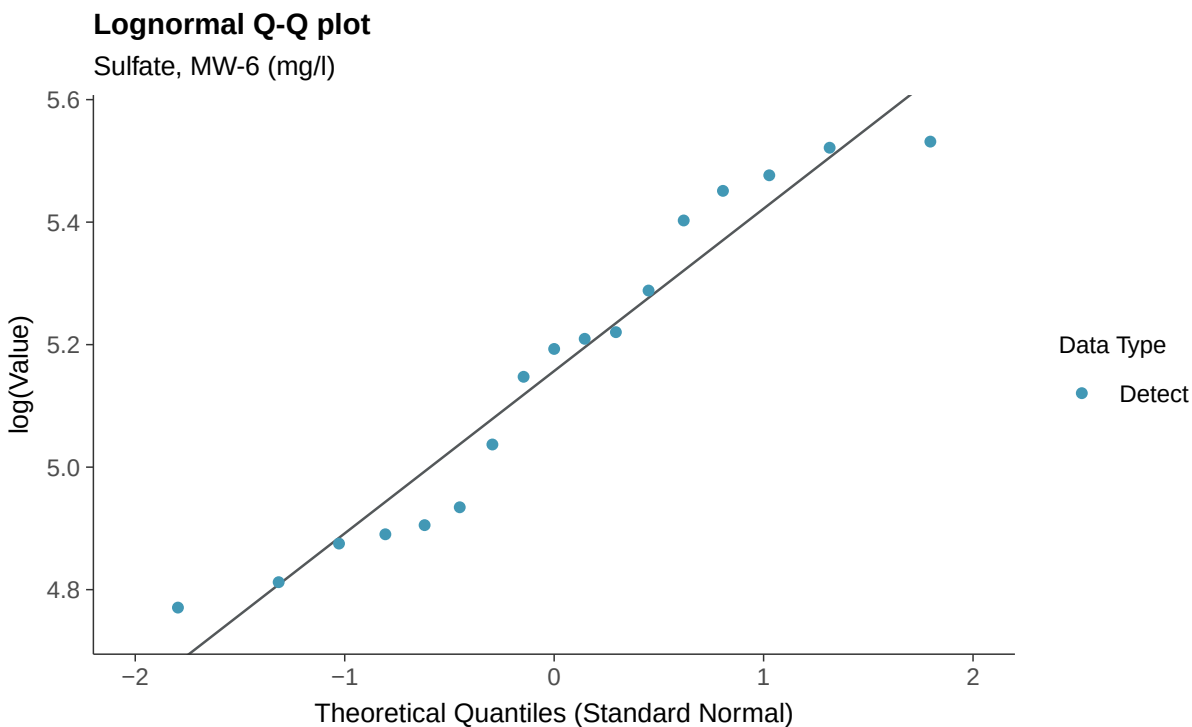
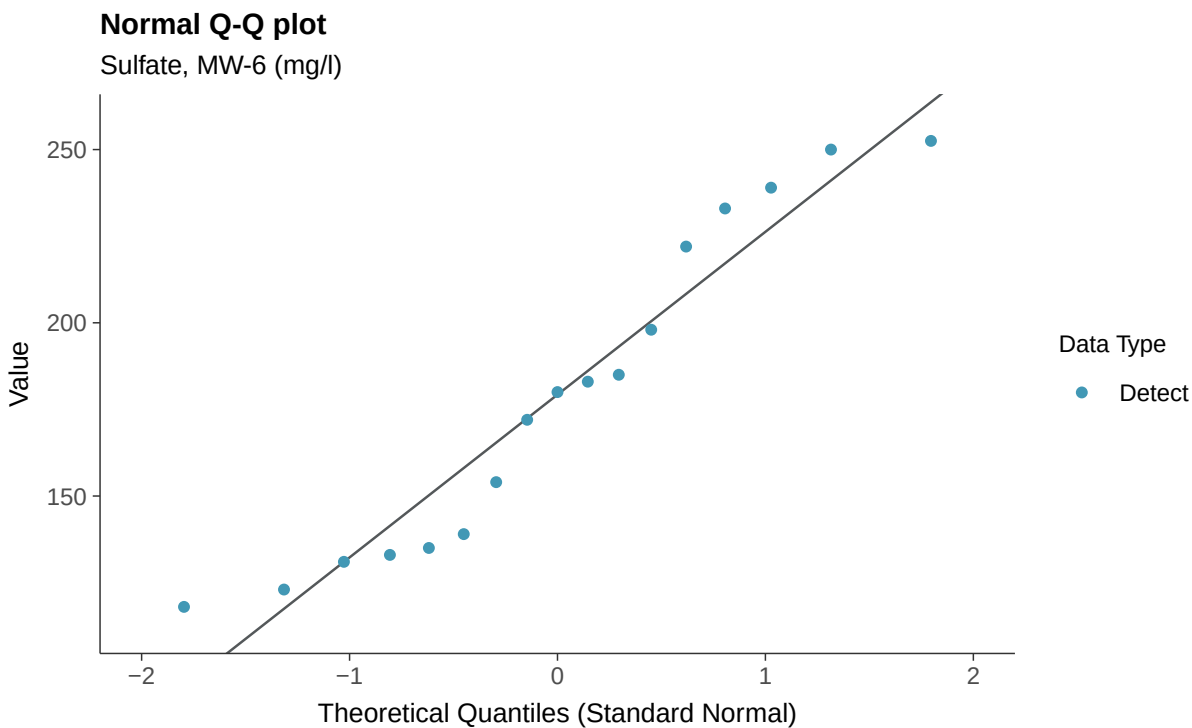


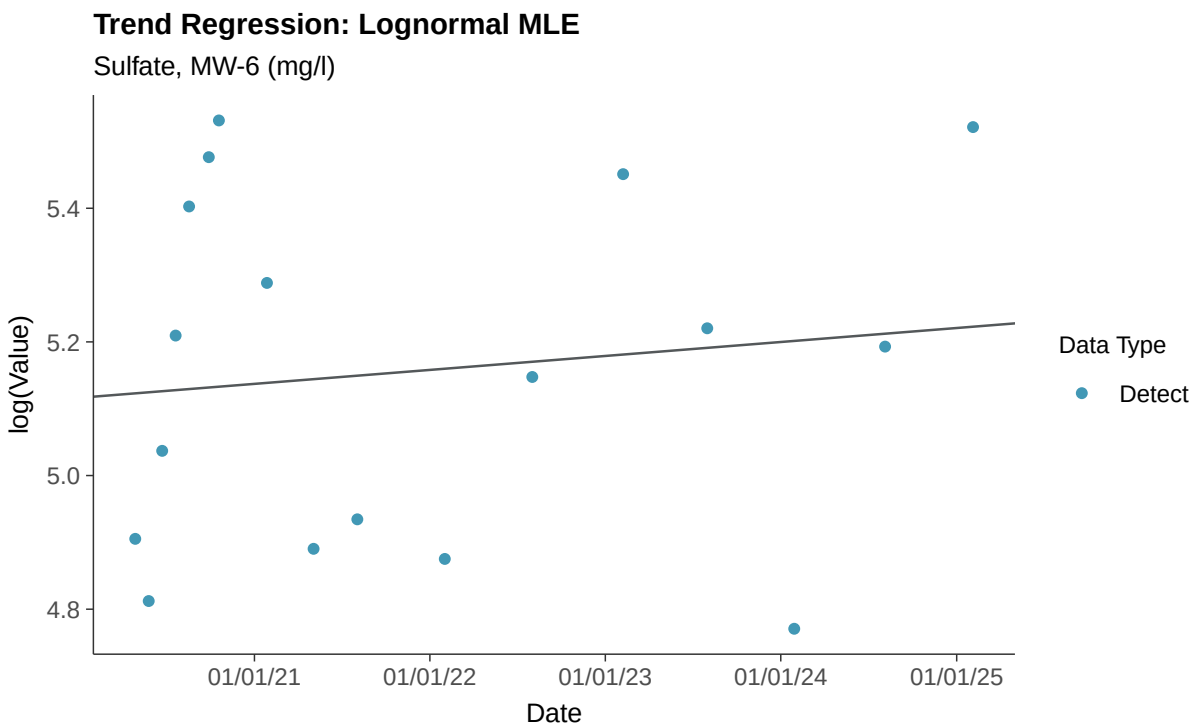
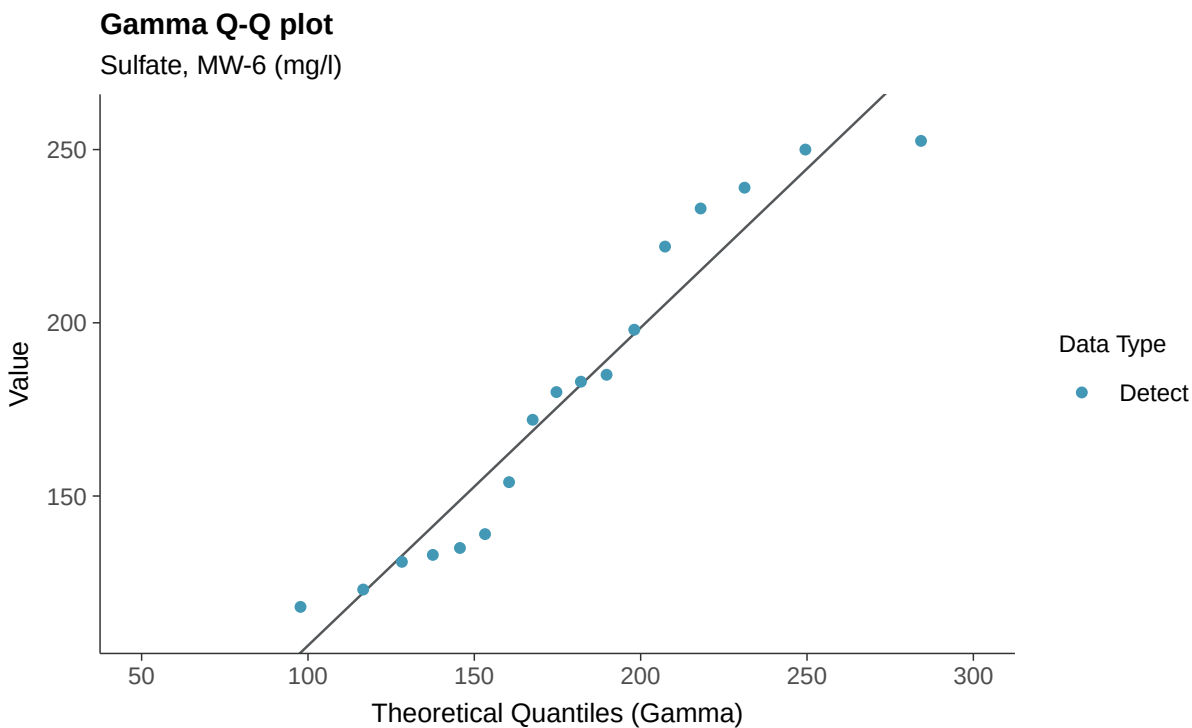
Appendix III: Sulfate, MW-6

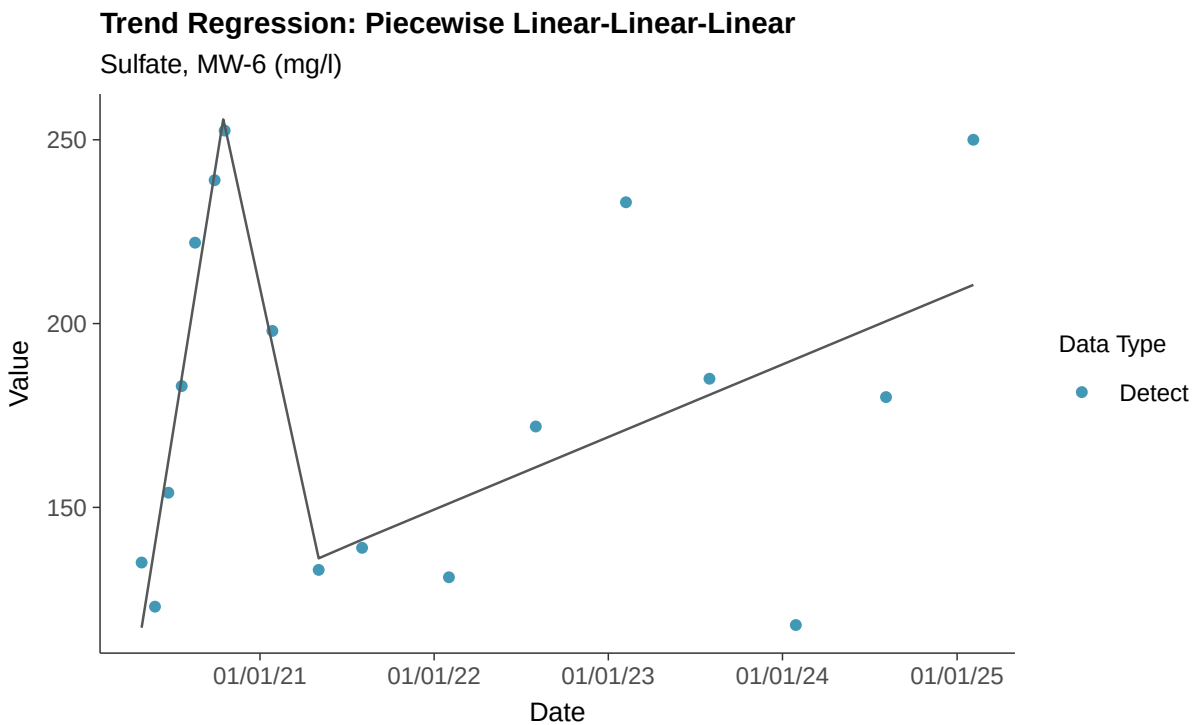
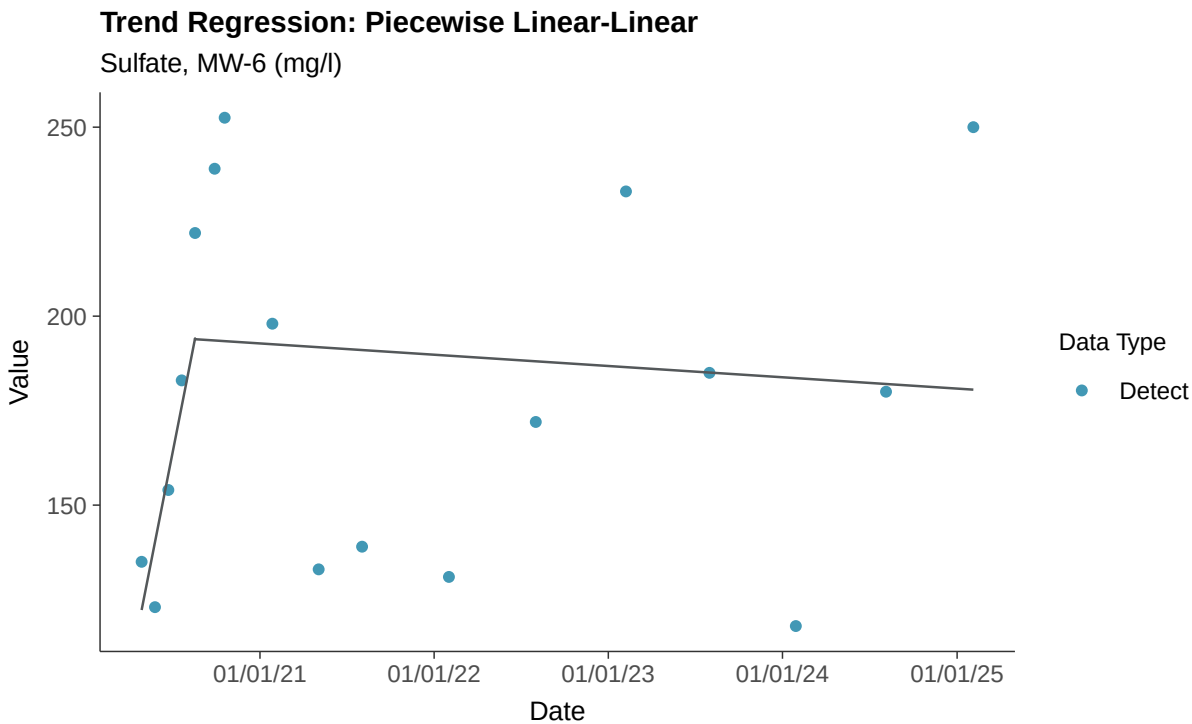
ID: 14_2_124







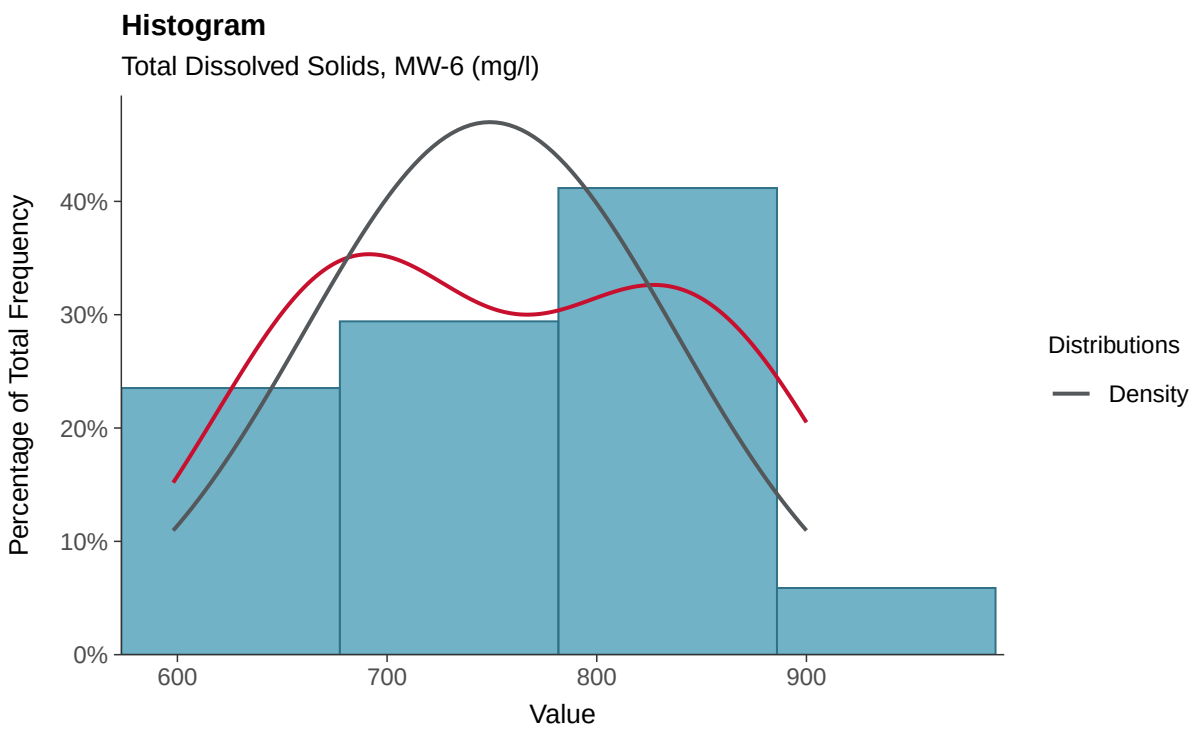
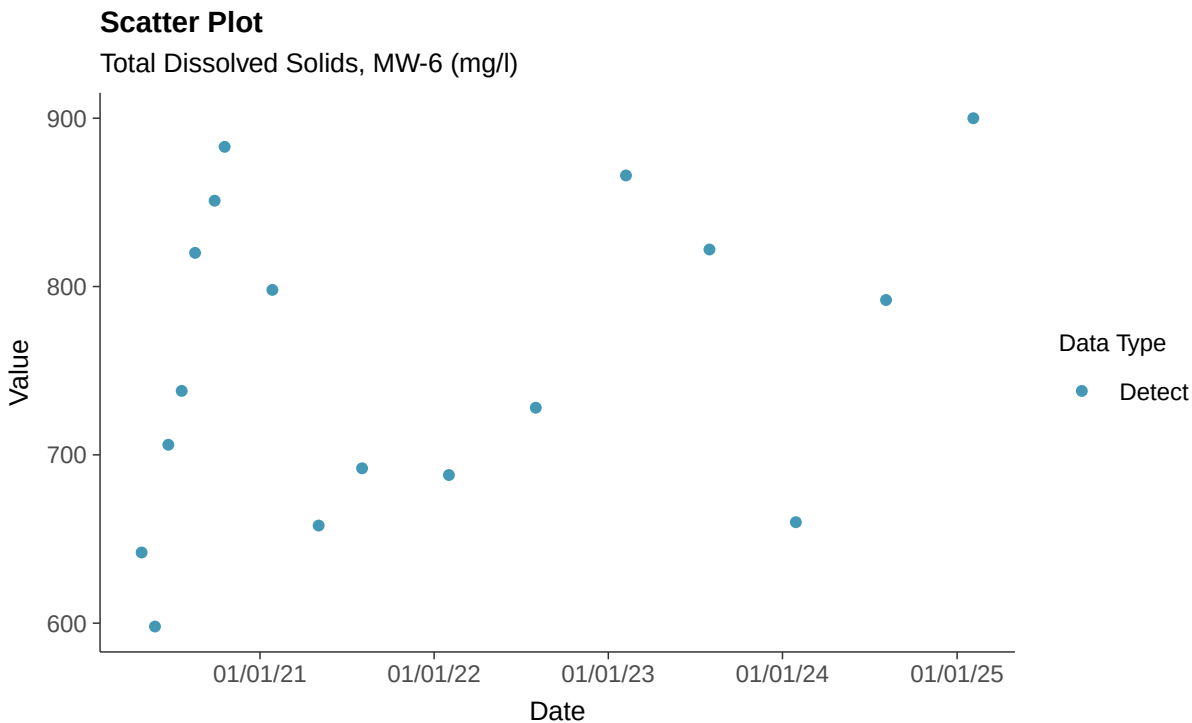


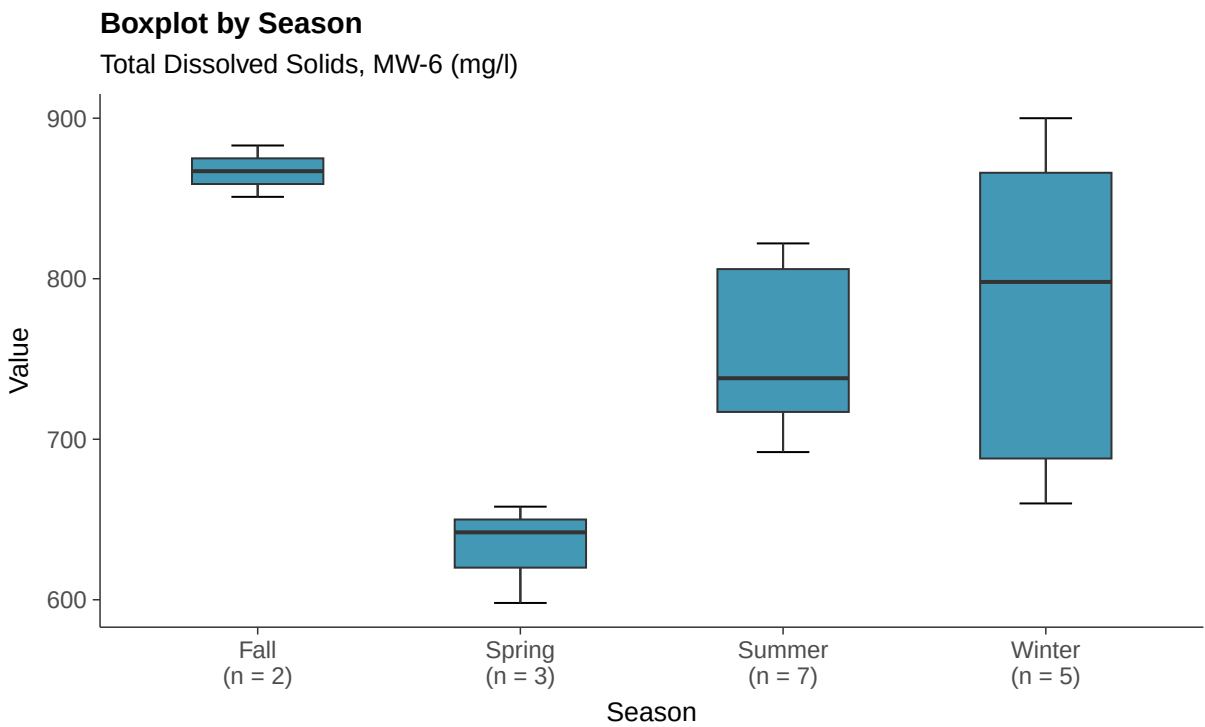
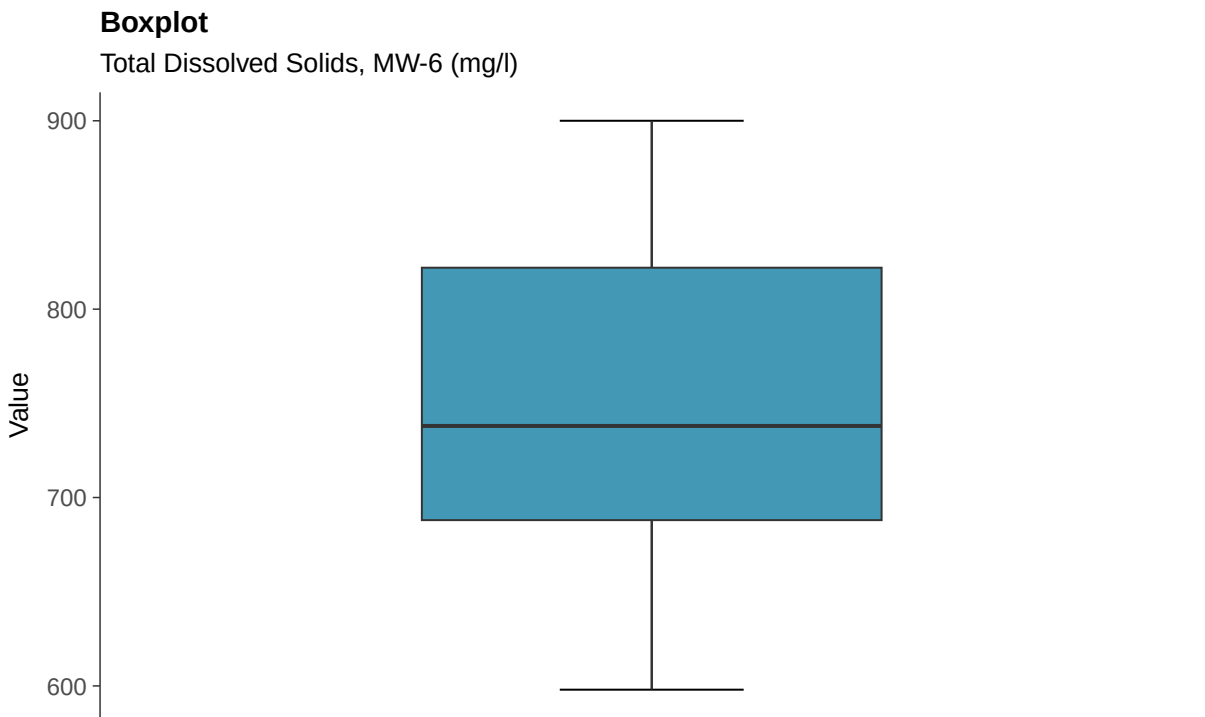


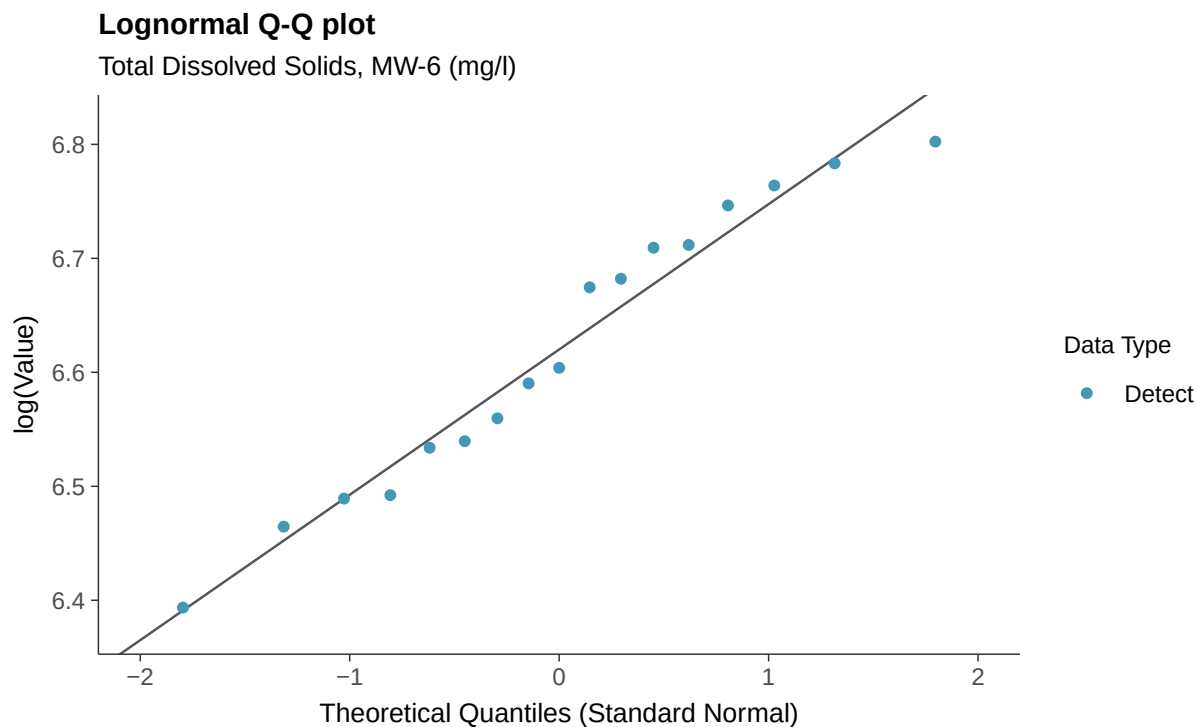
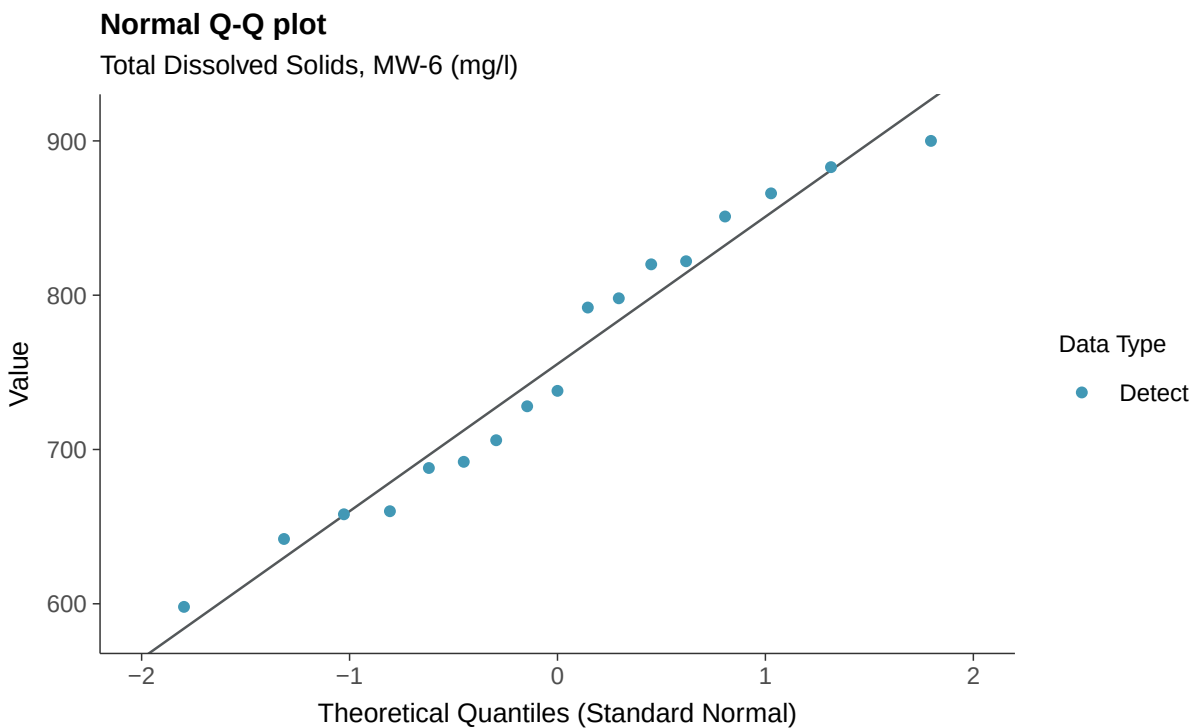


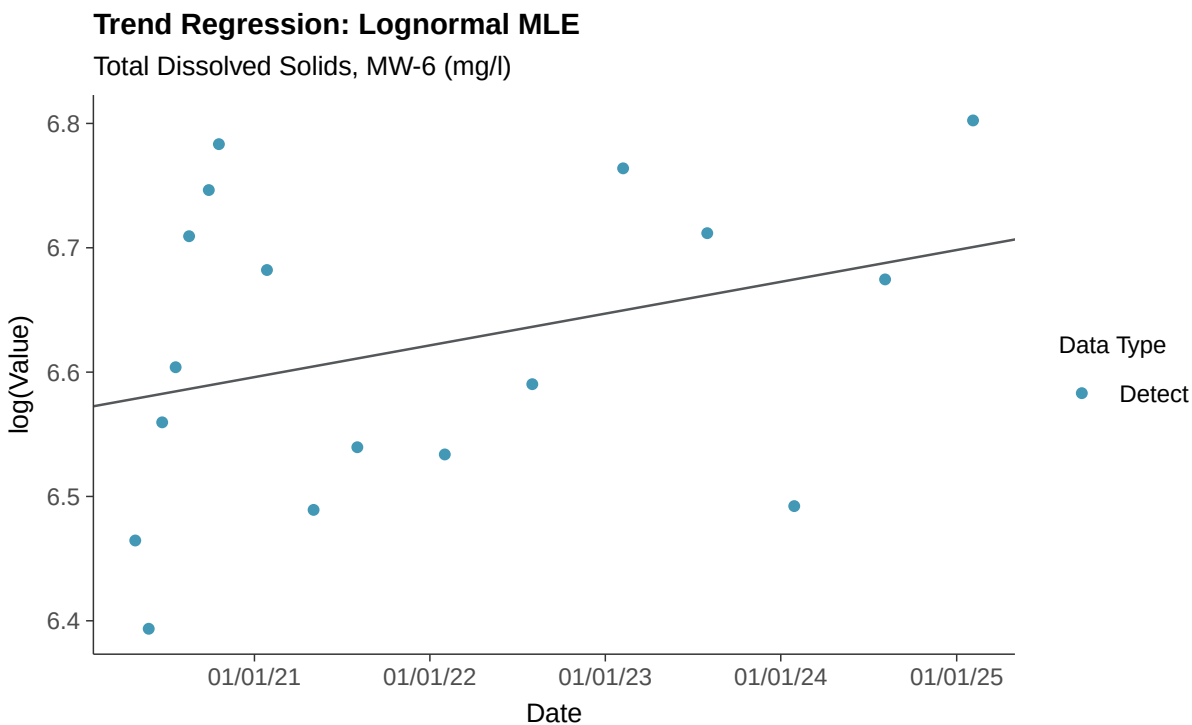
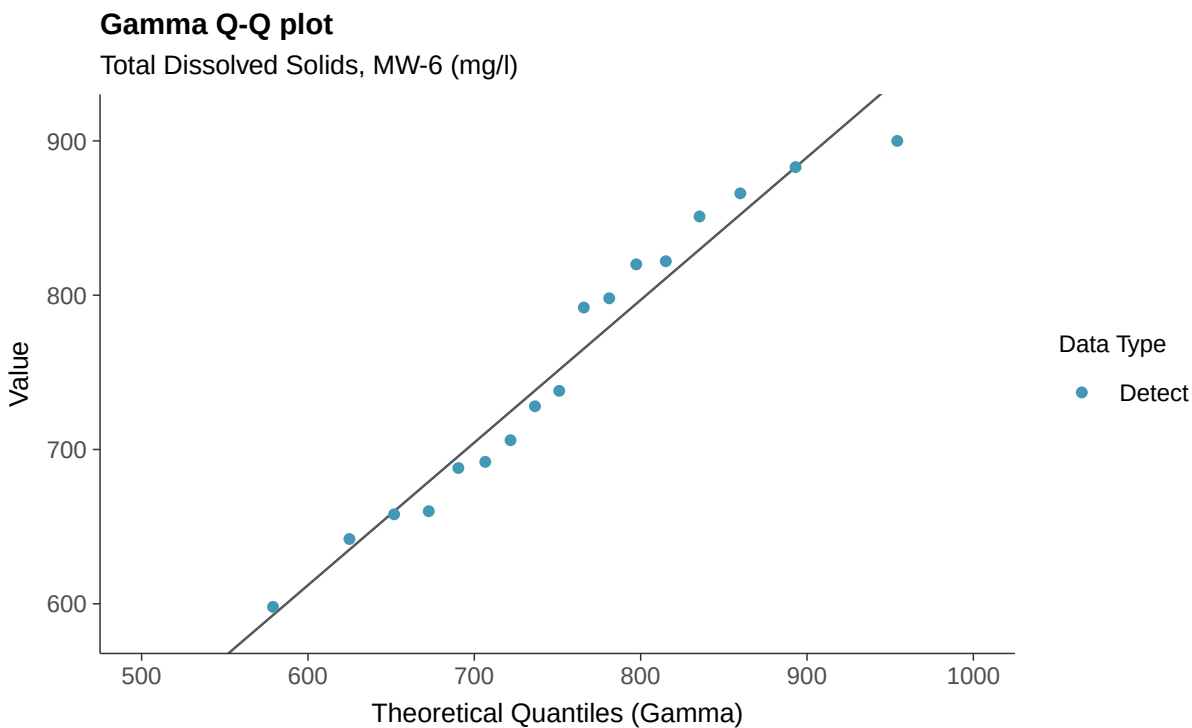
Appendix III: Total Dissolved Solids, MW-6

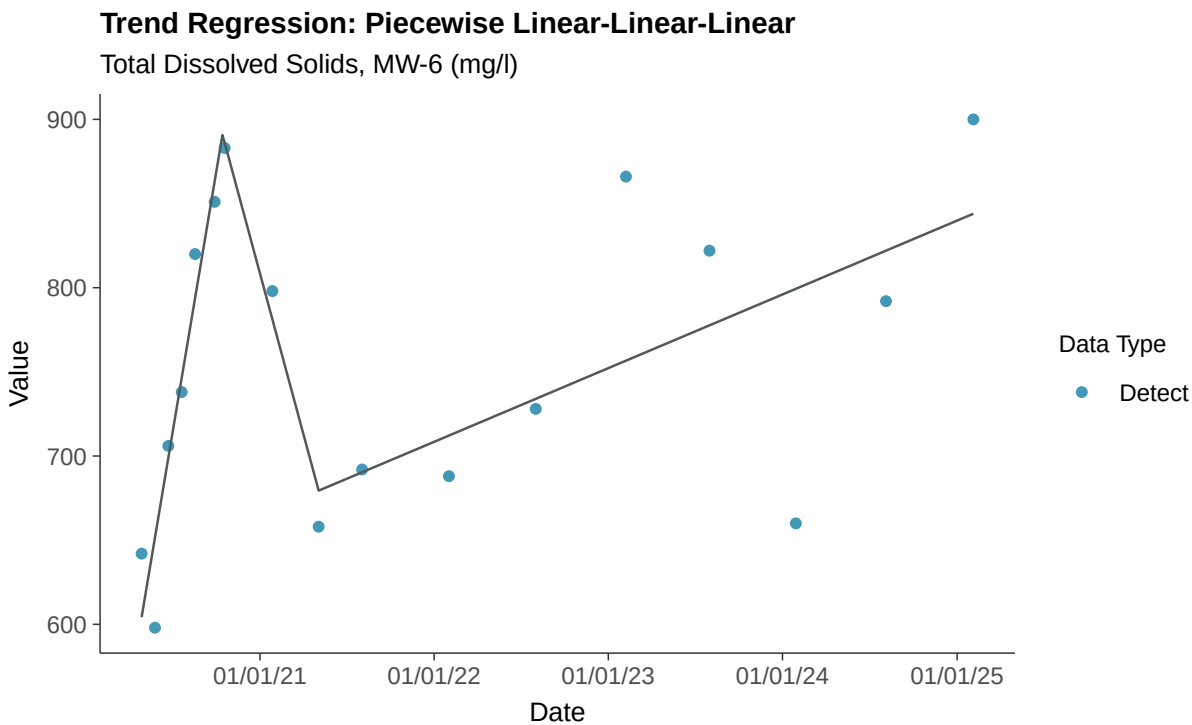
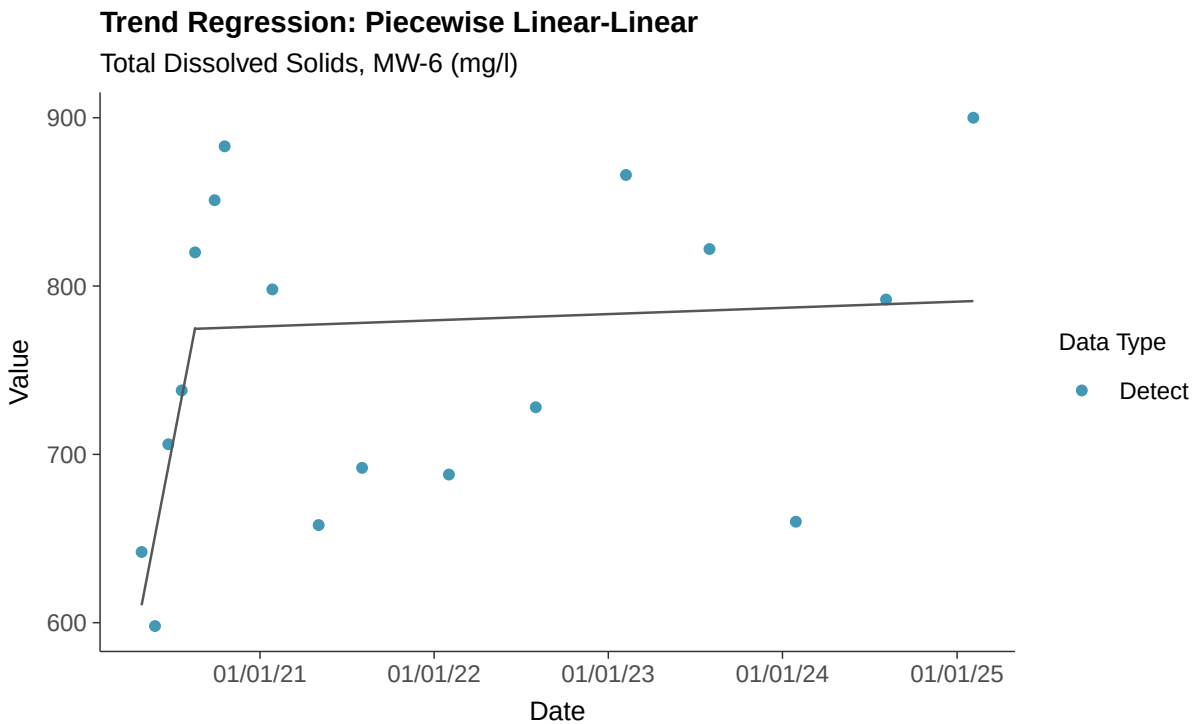
ID: 14_2_126

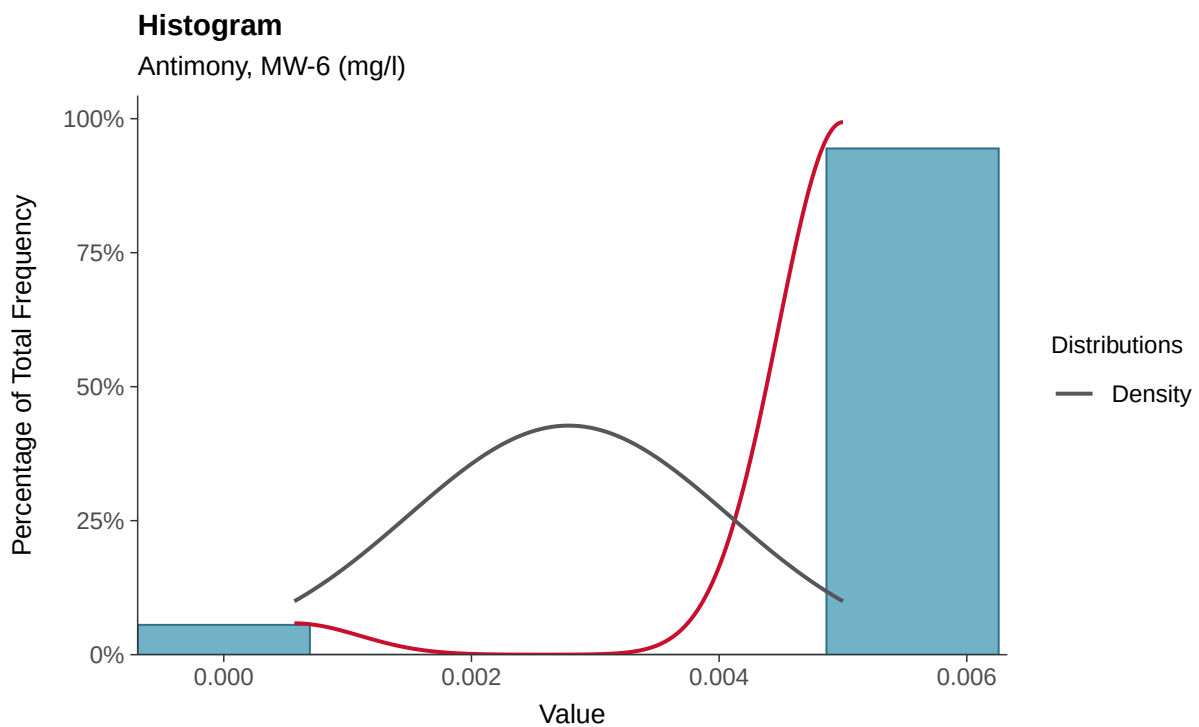


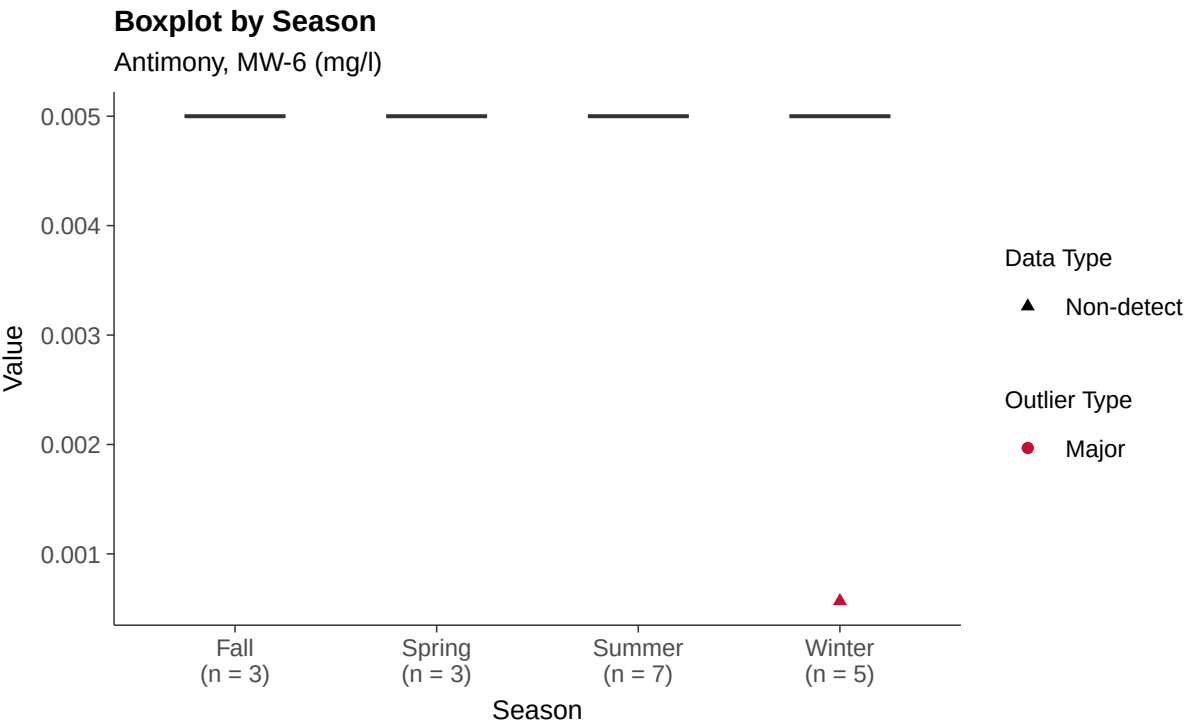
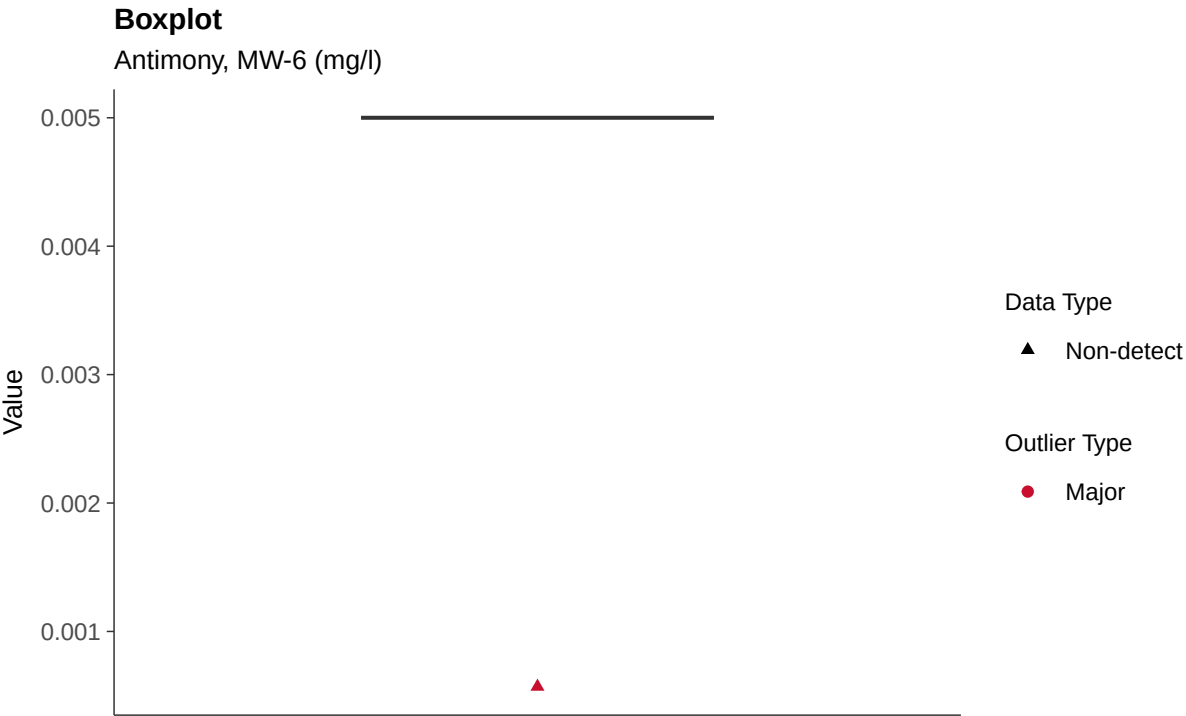


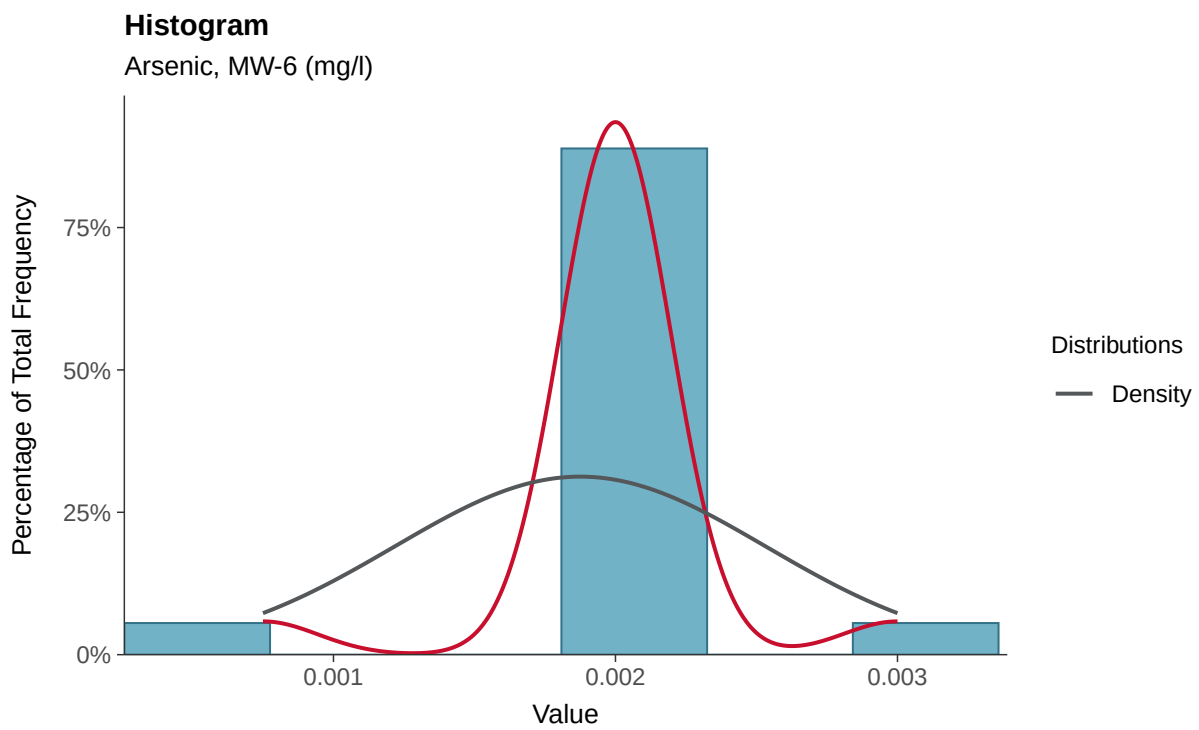


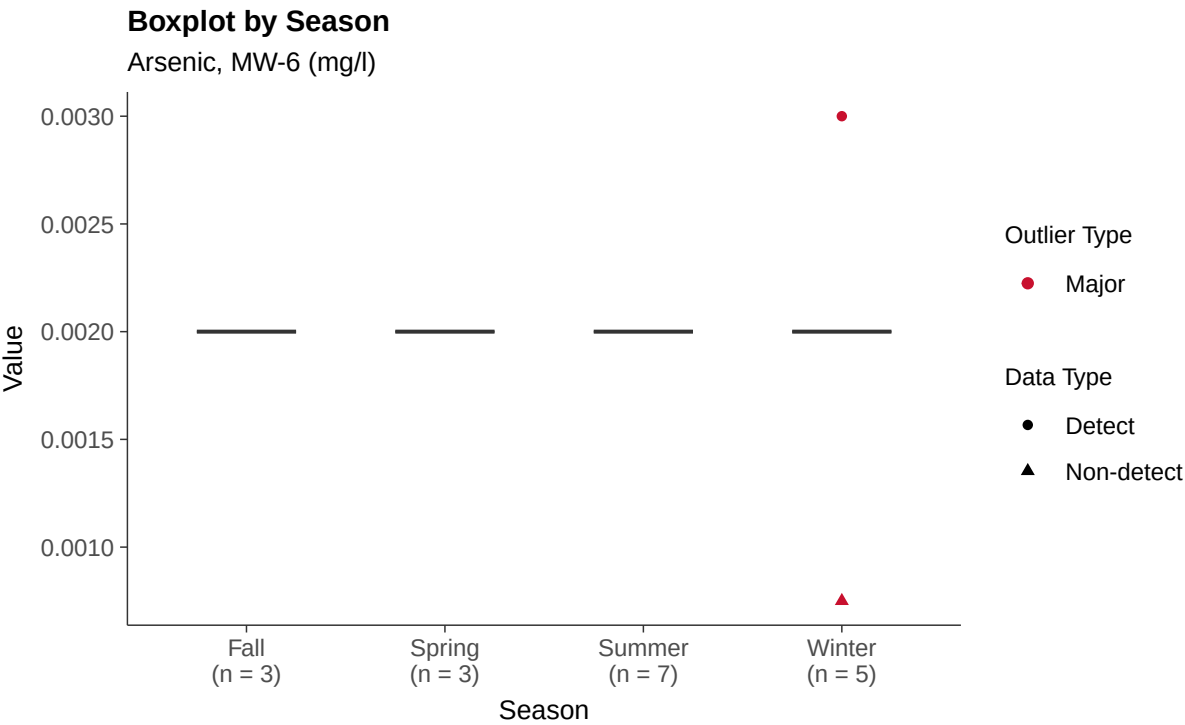
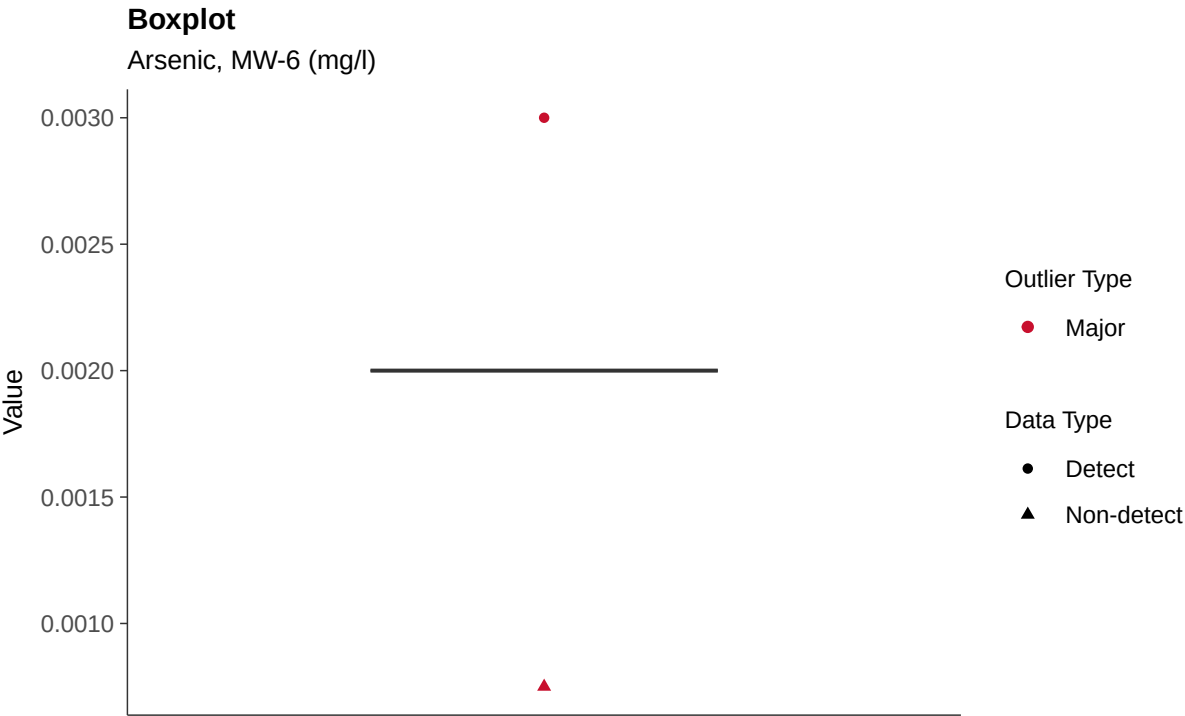








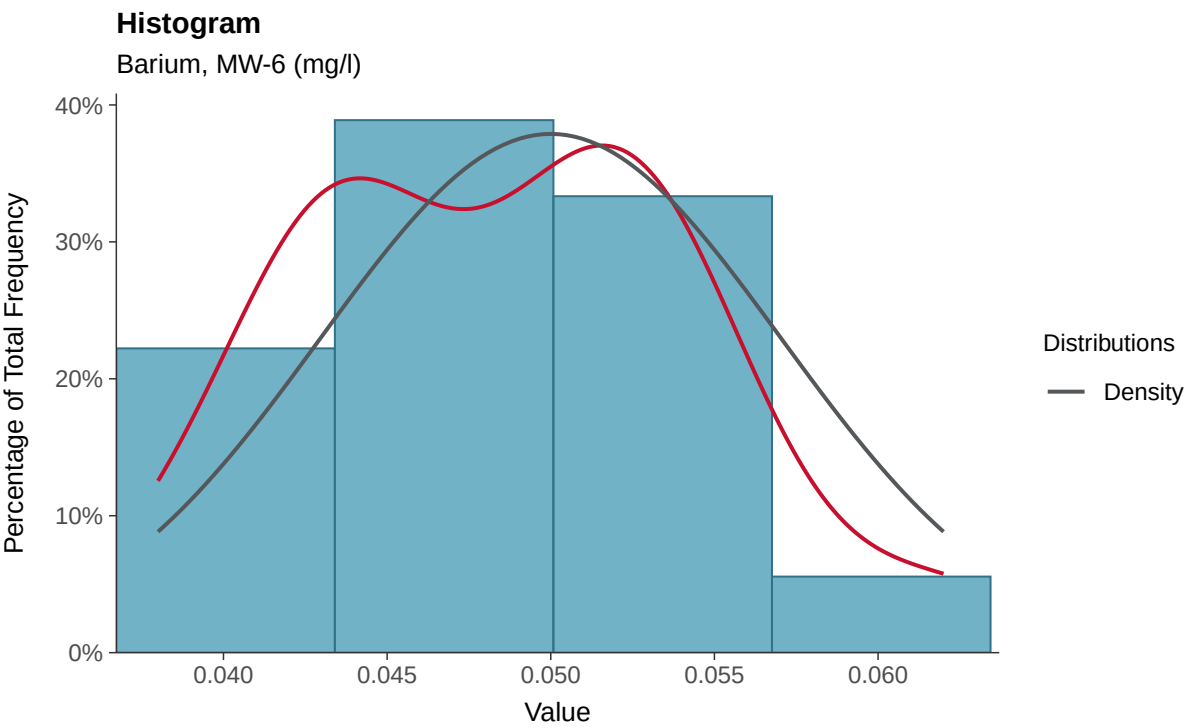
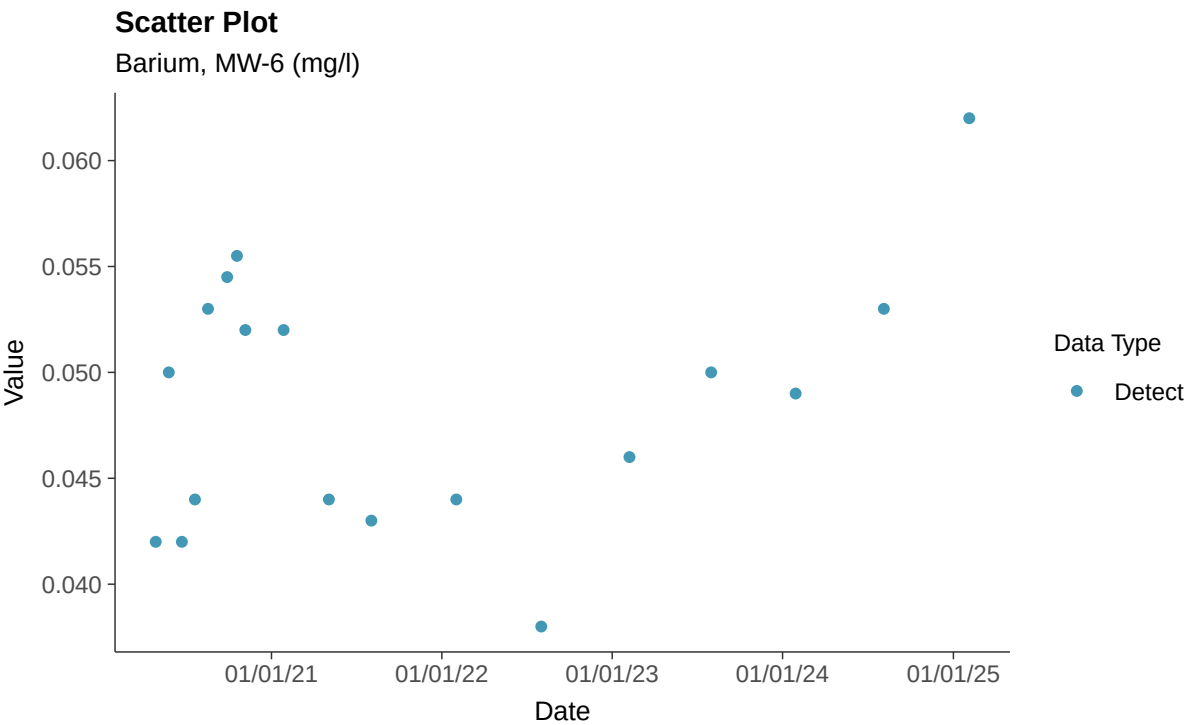


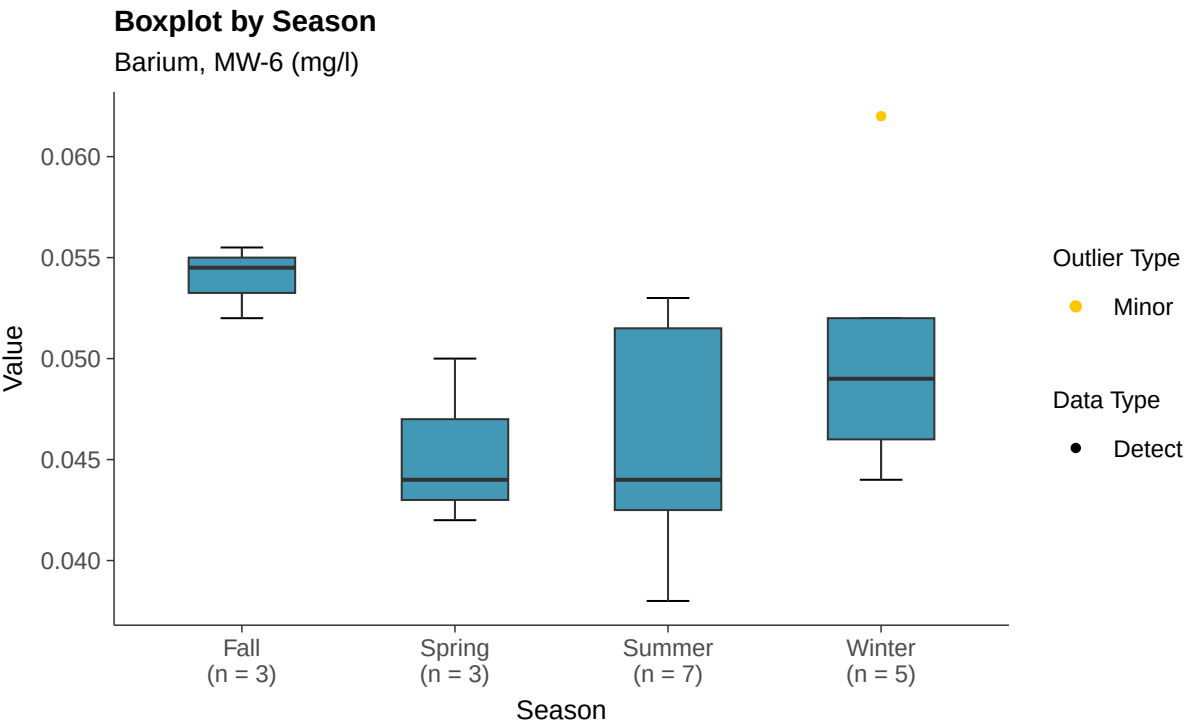
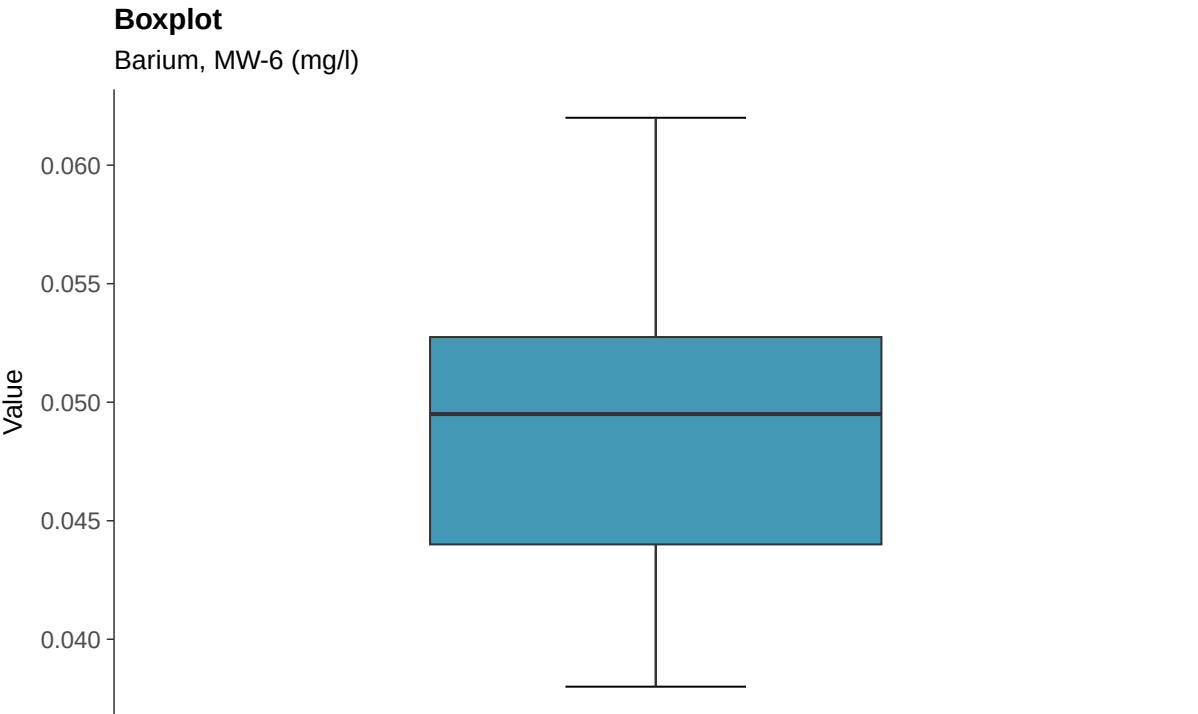


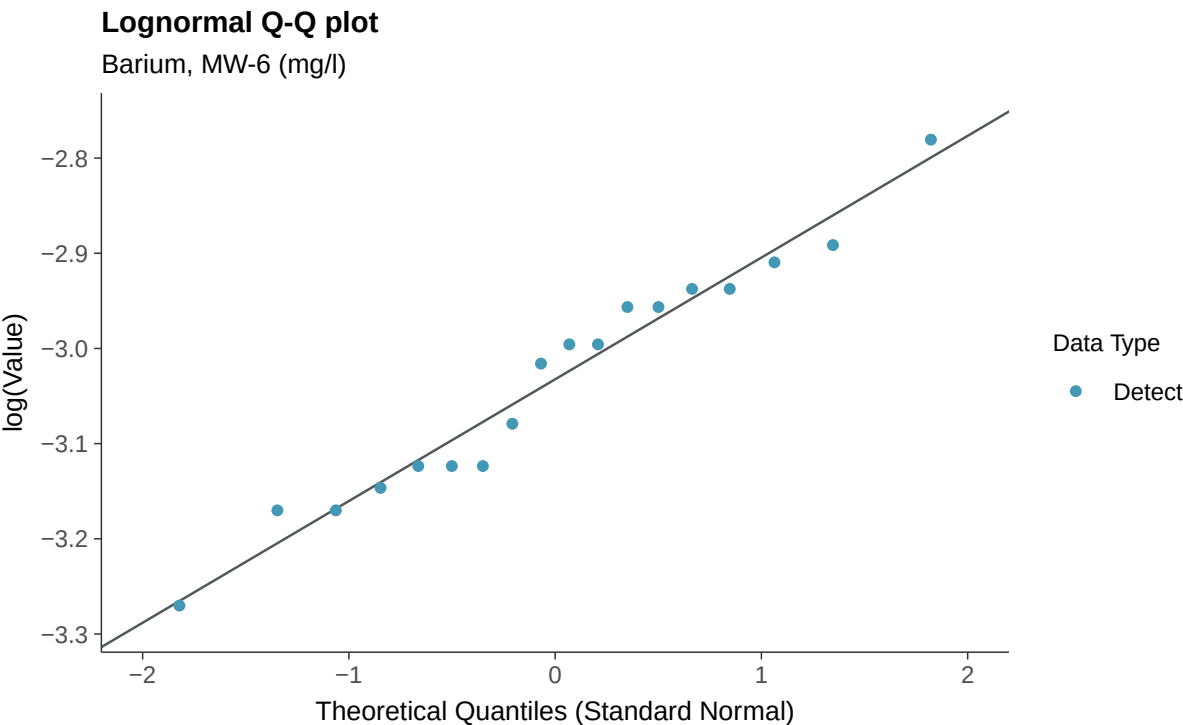
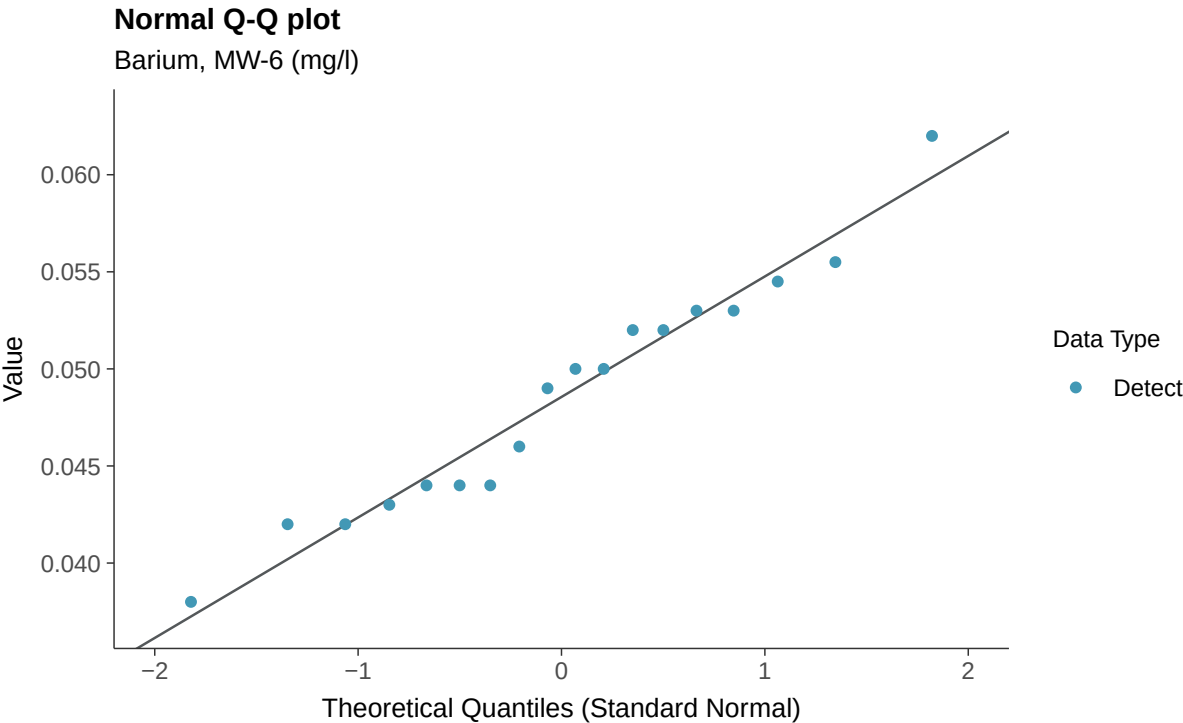


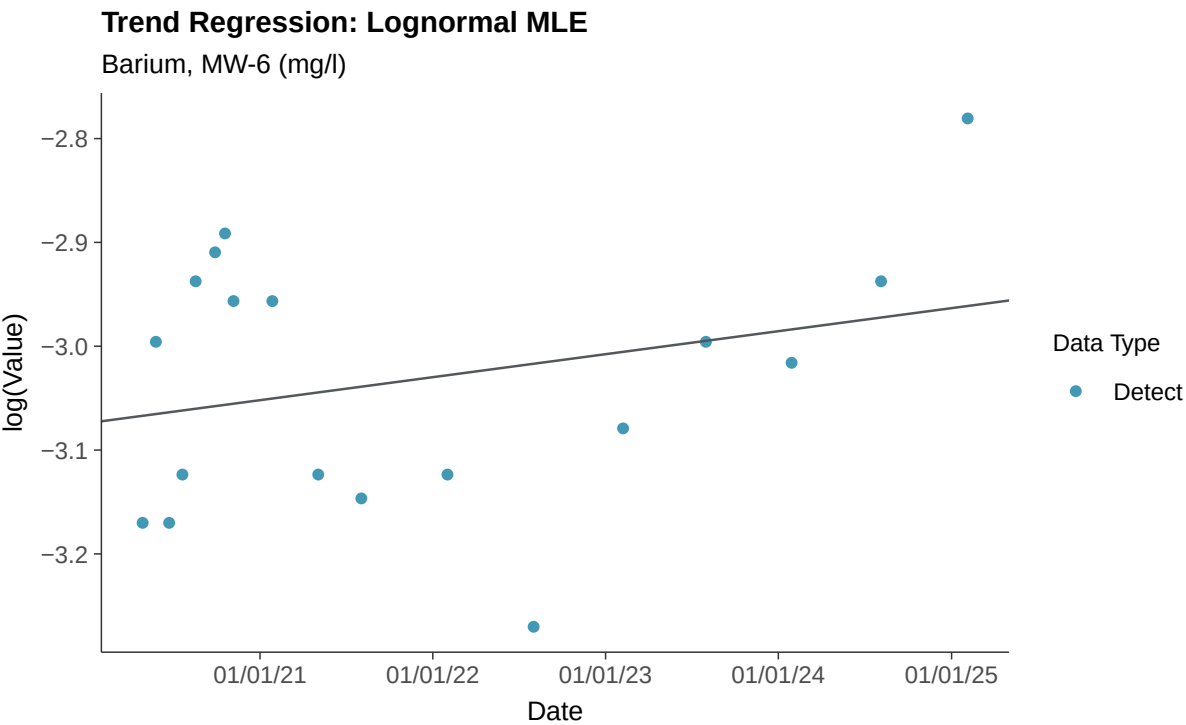
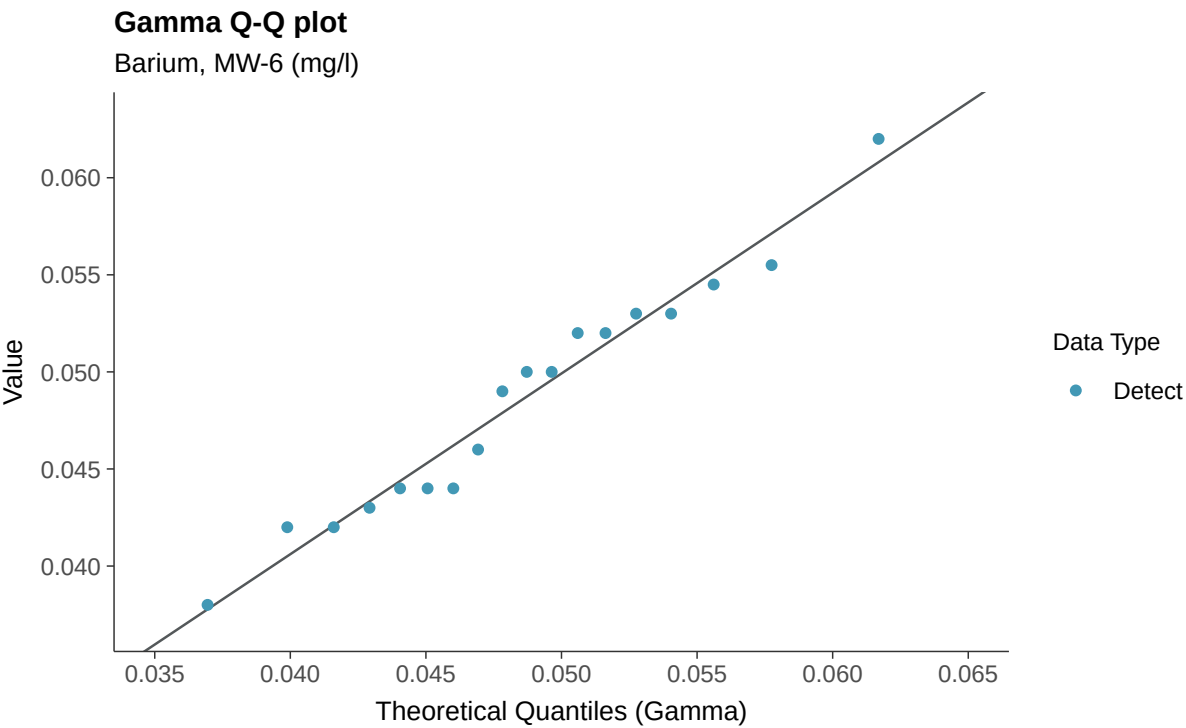
Appendix IV: Barium, MW-6

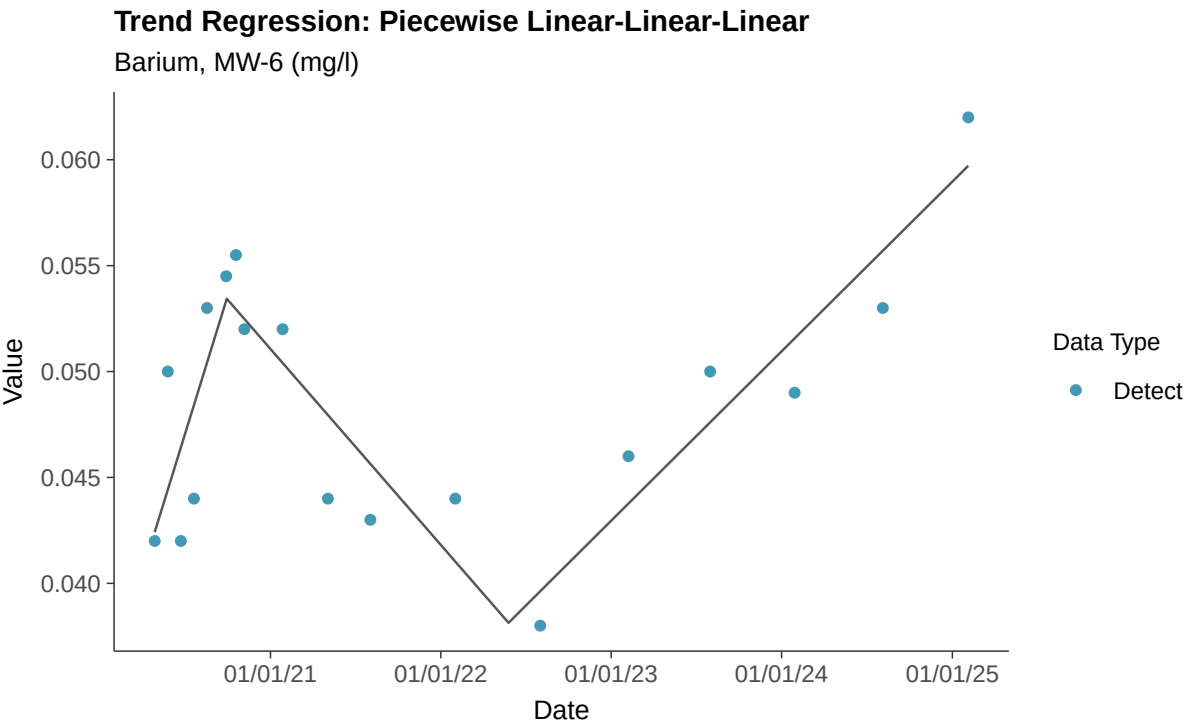
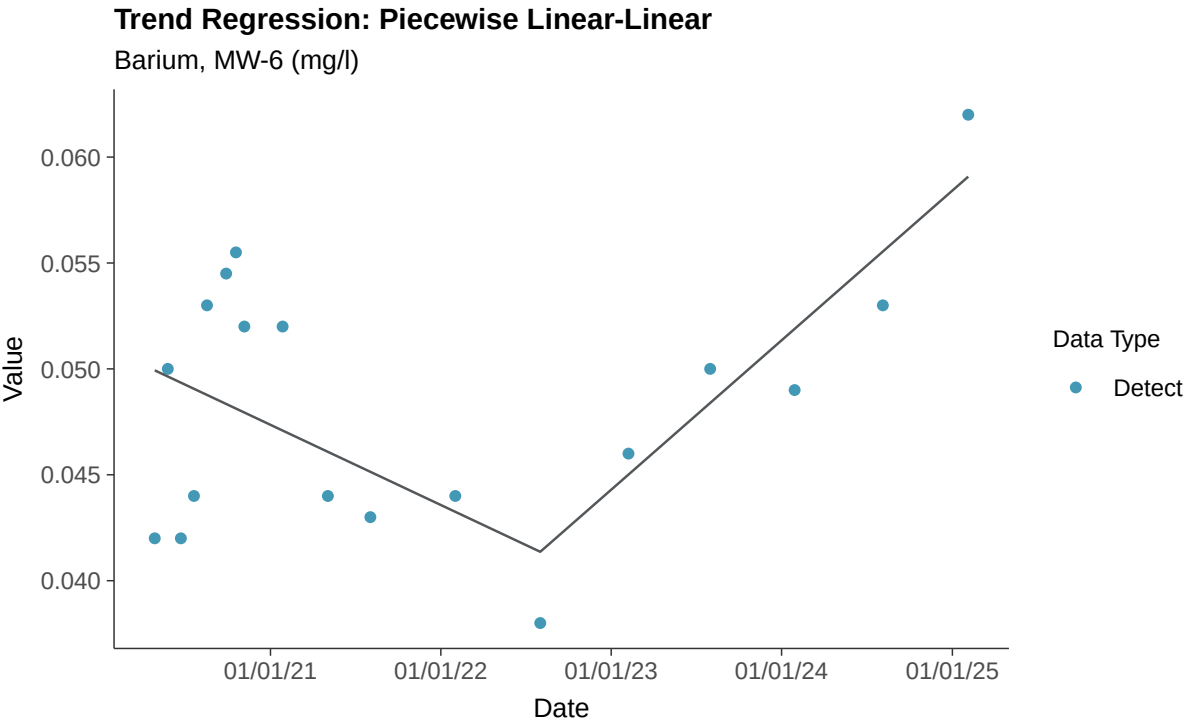
ID: 14_3_103

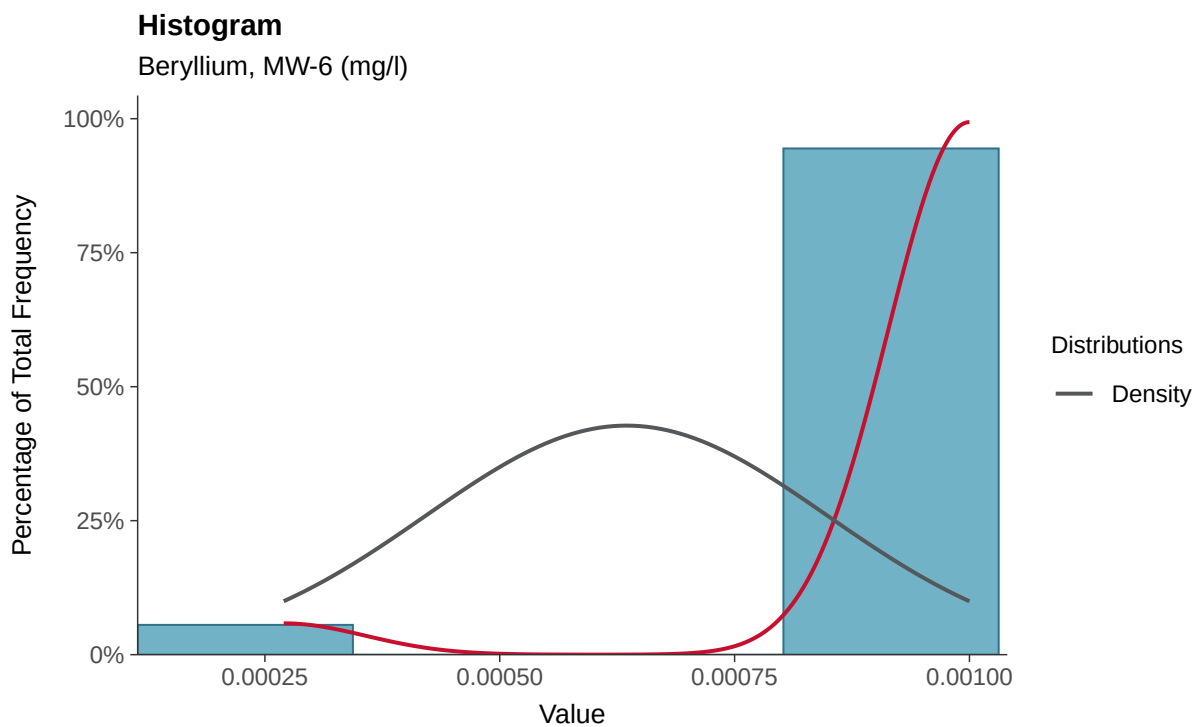


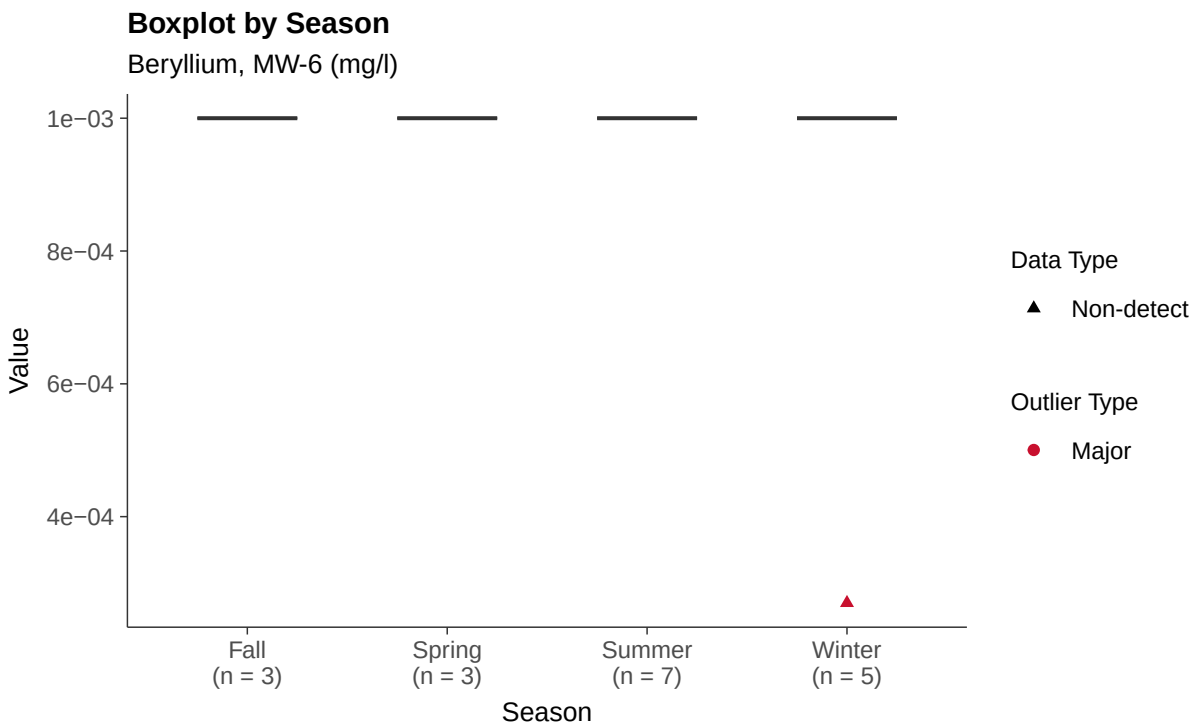
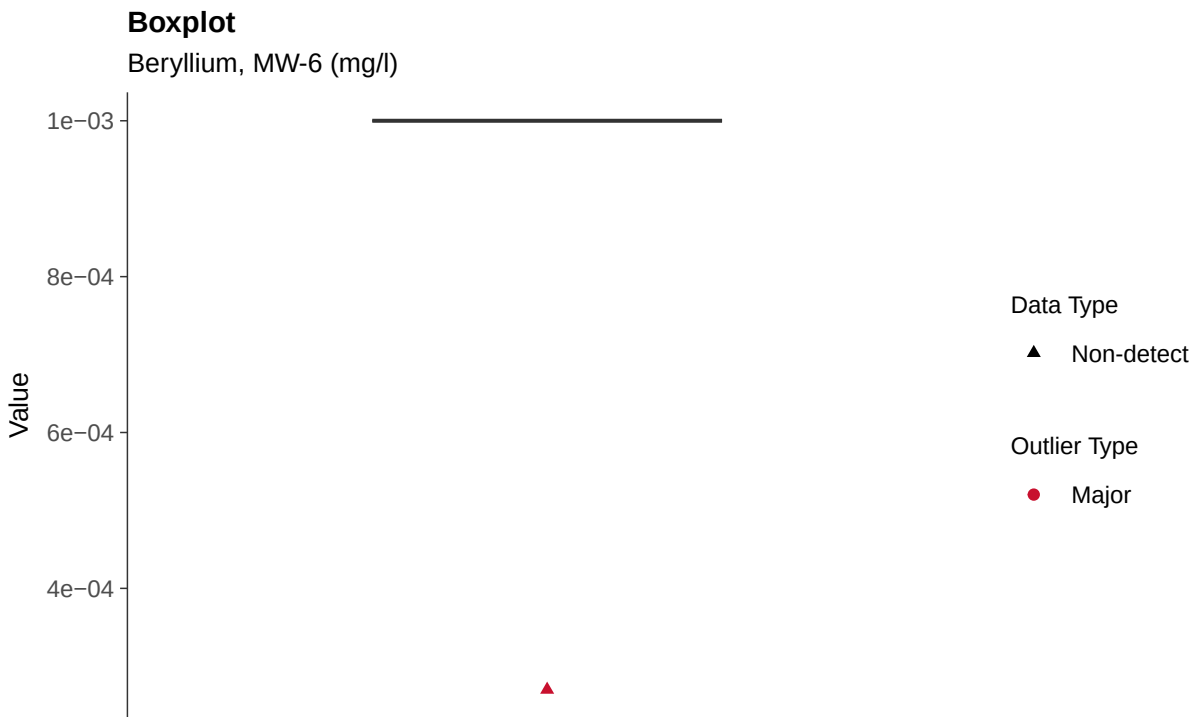


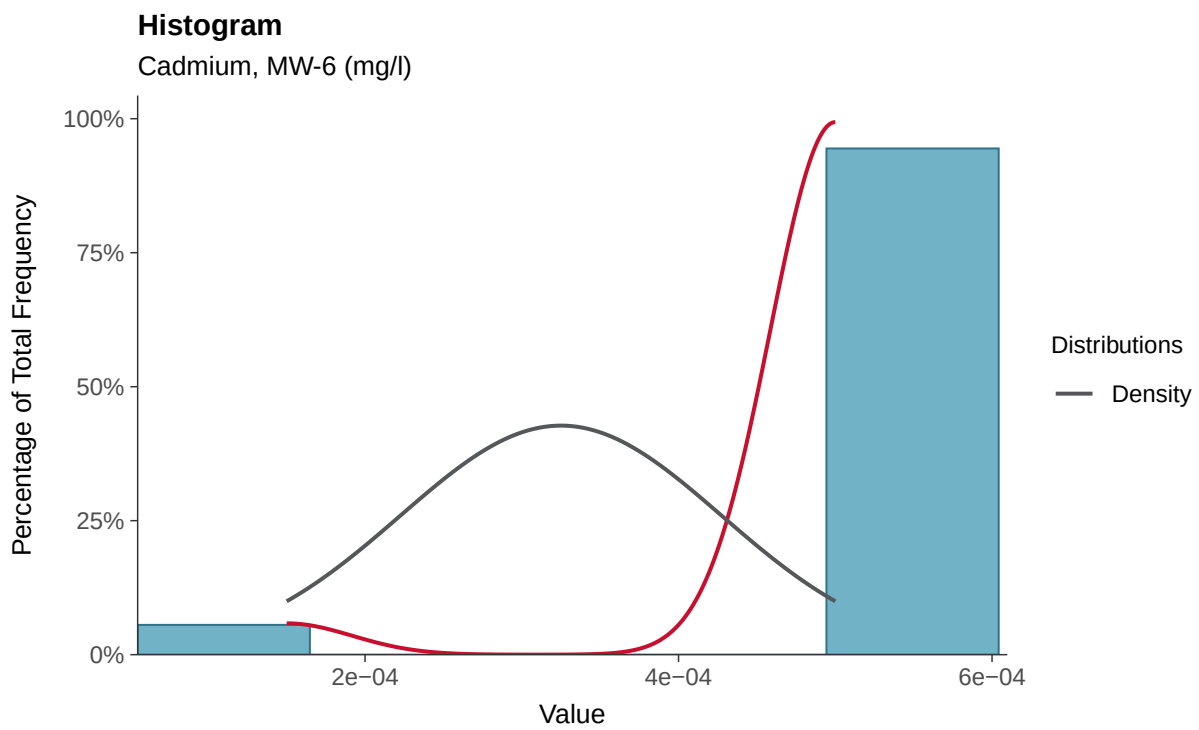


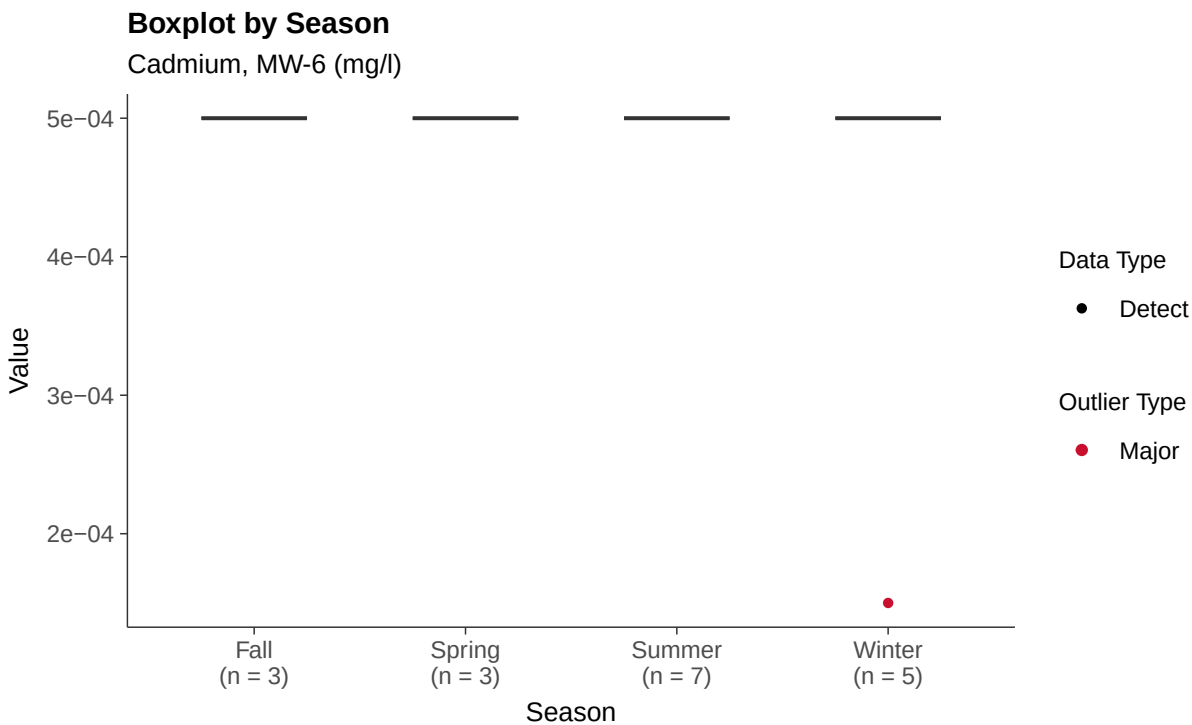
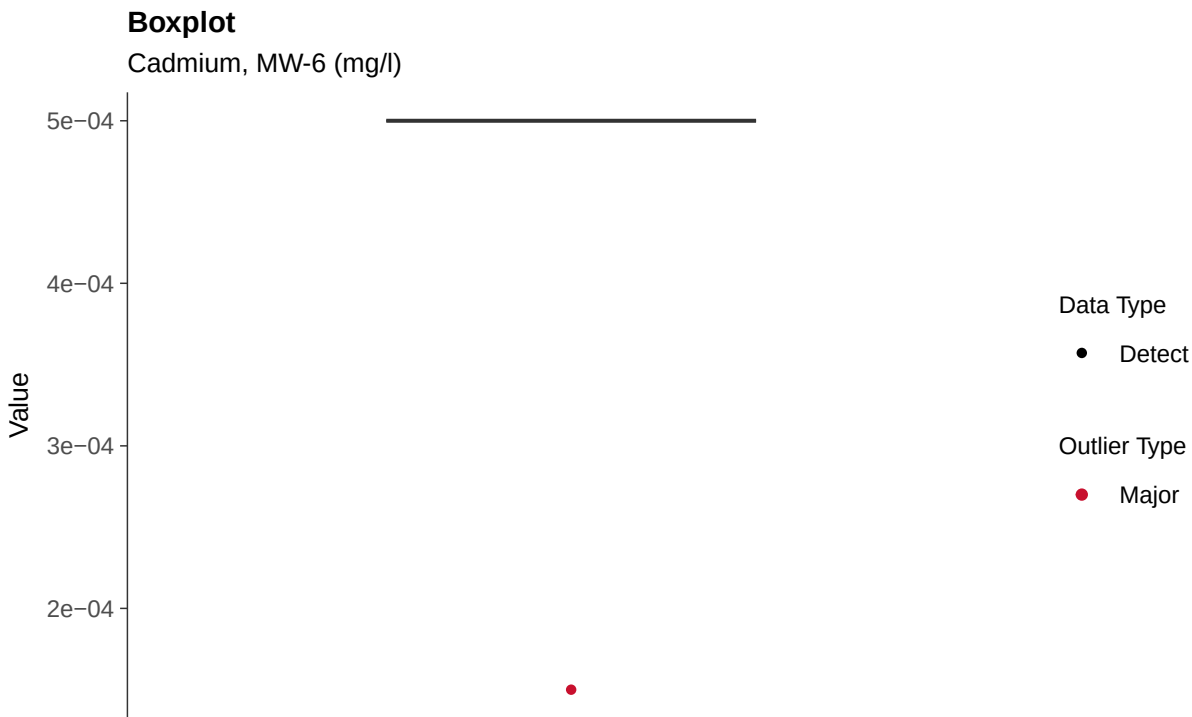


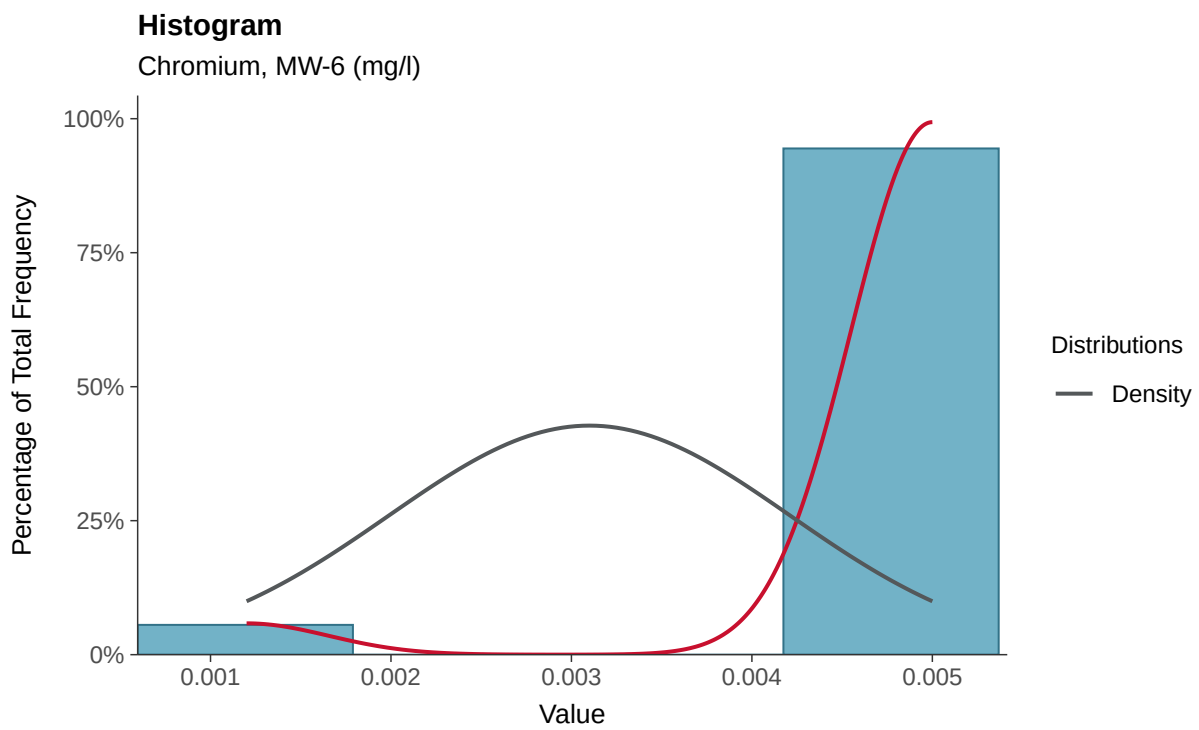


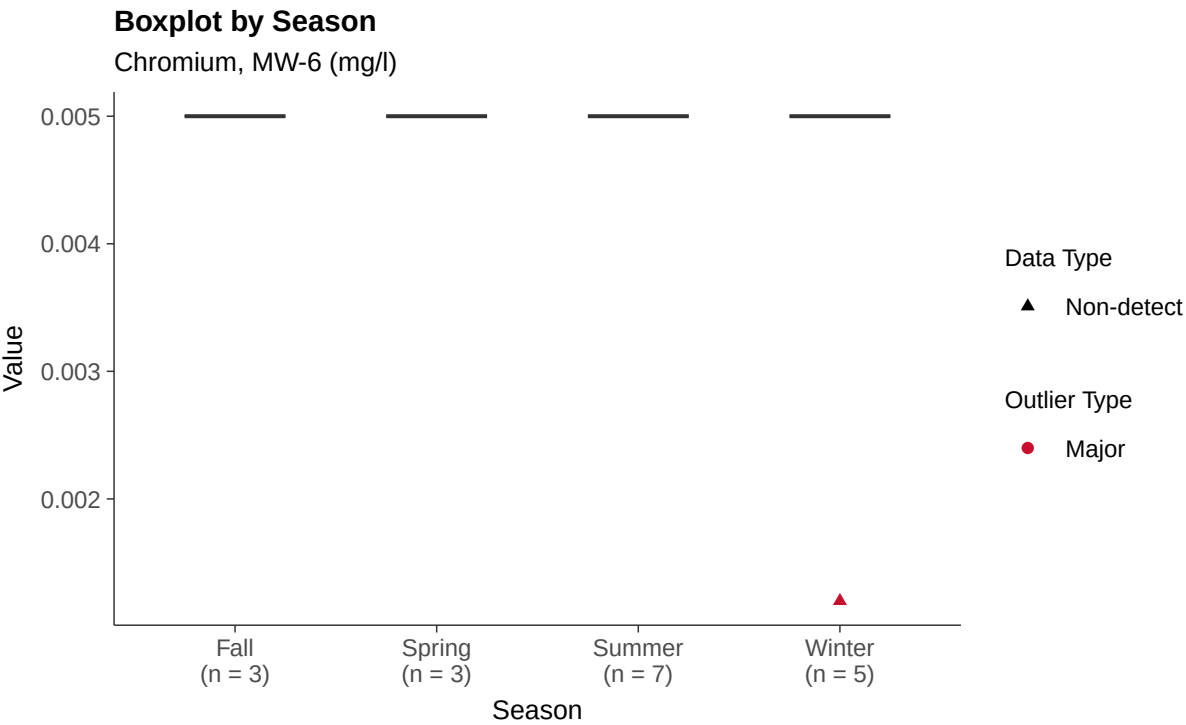
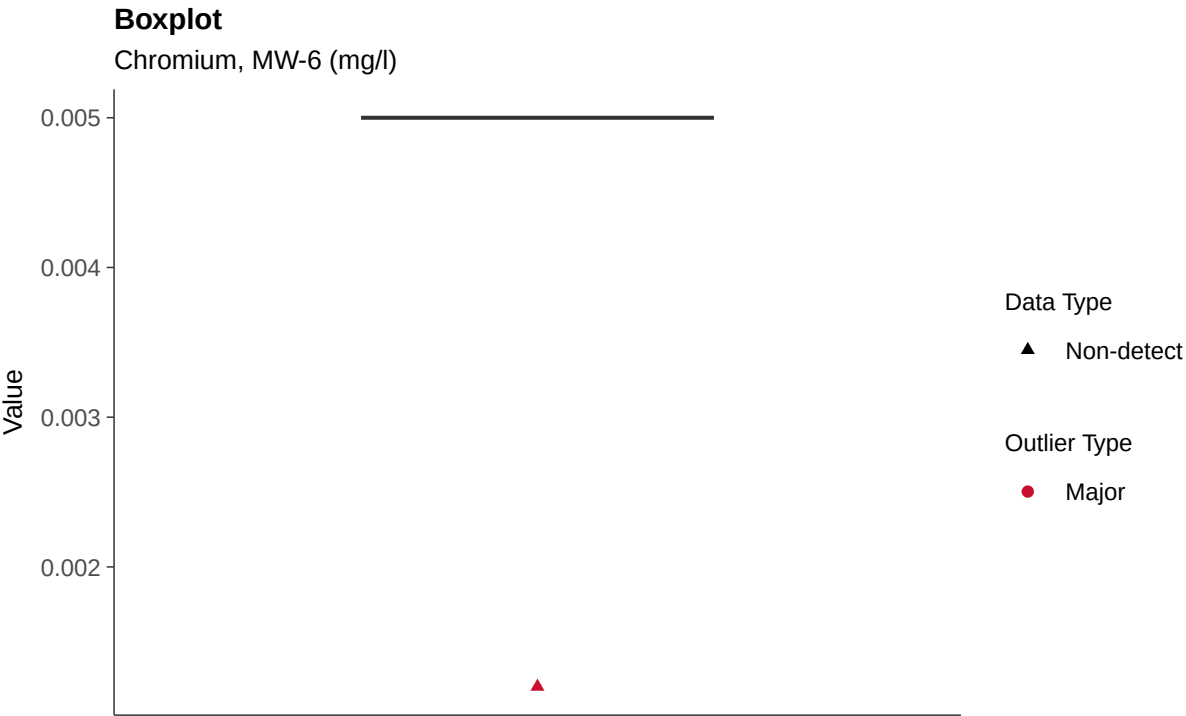


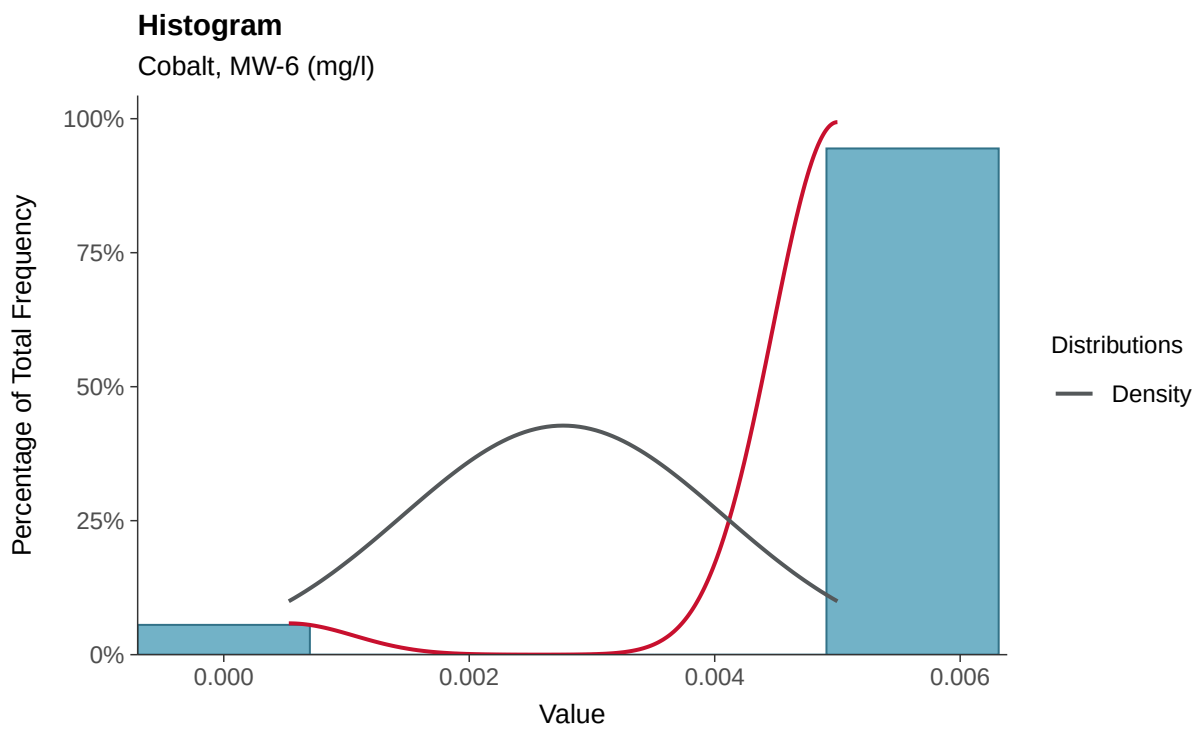


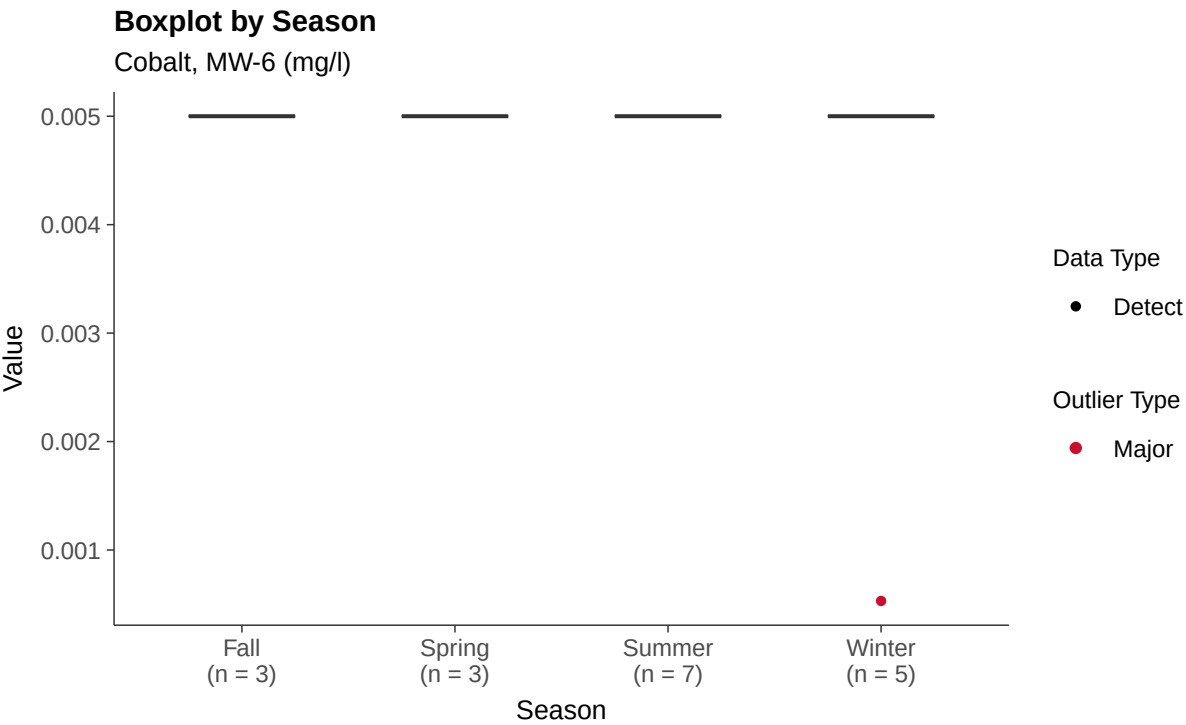
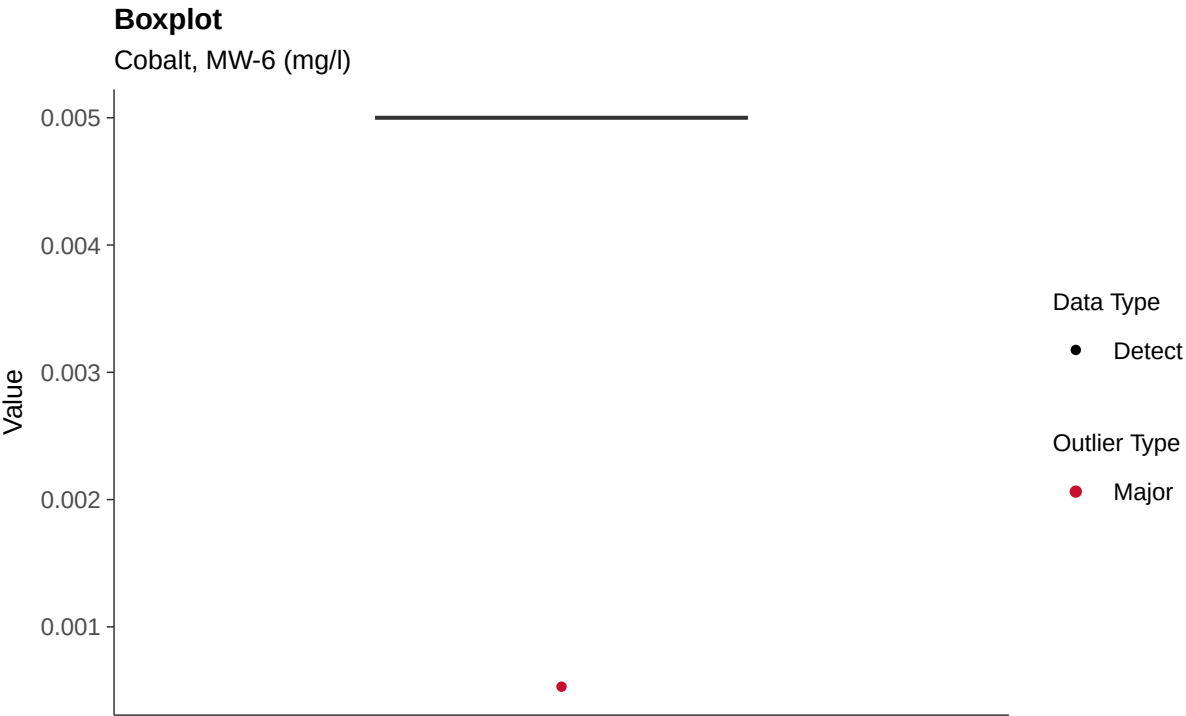








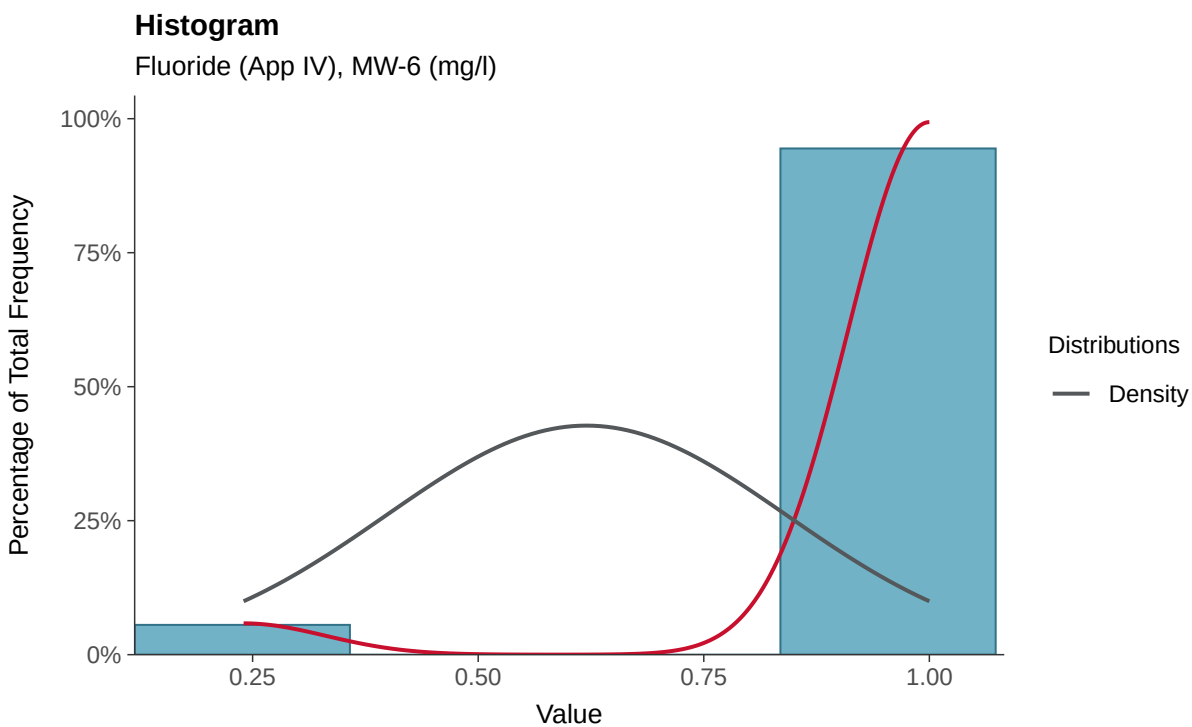
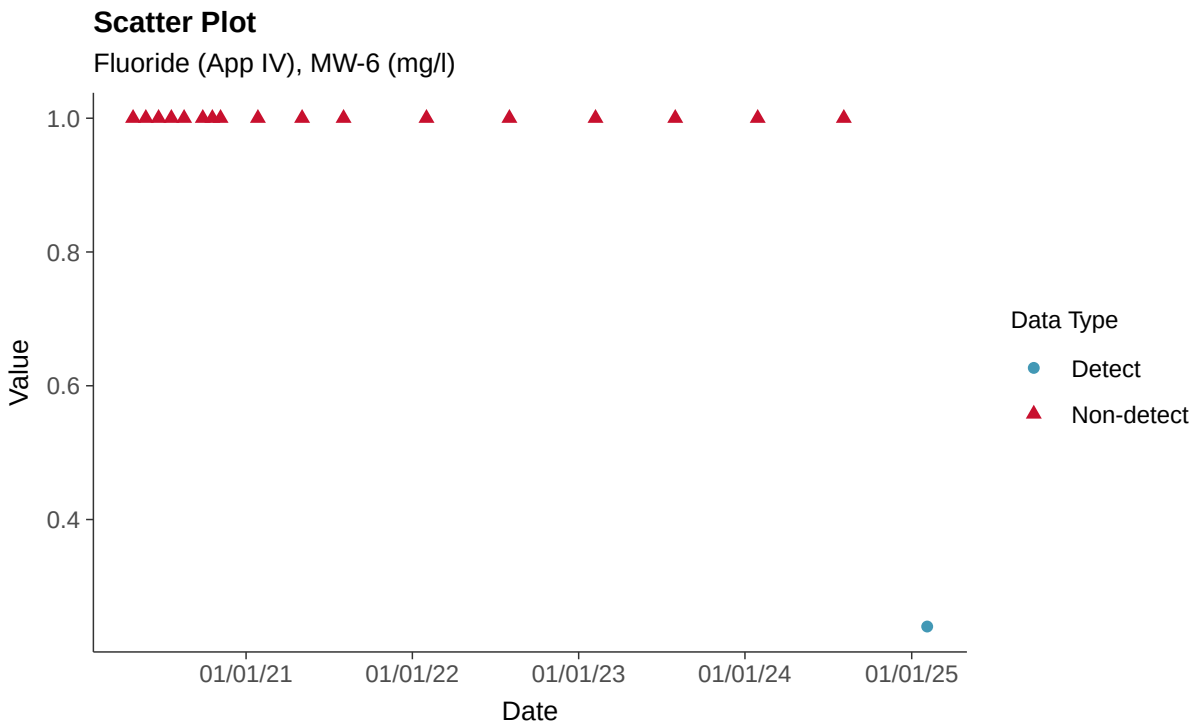


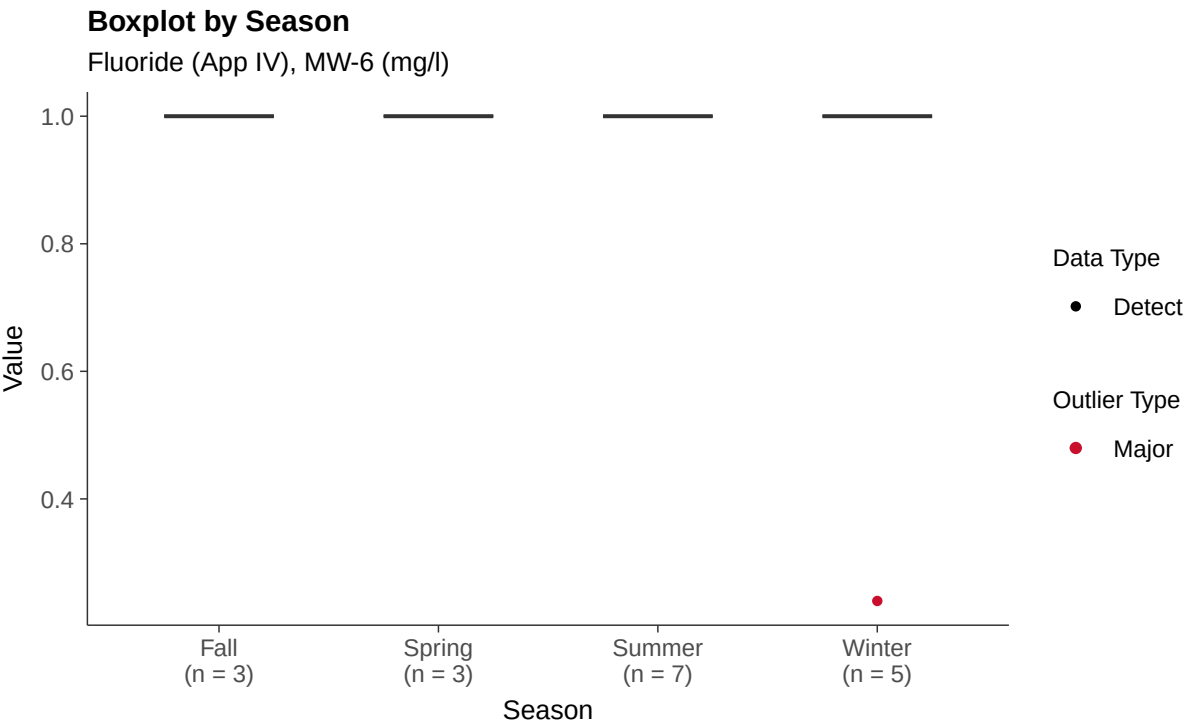
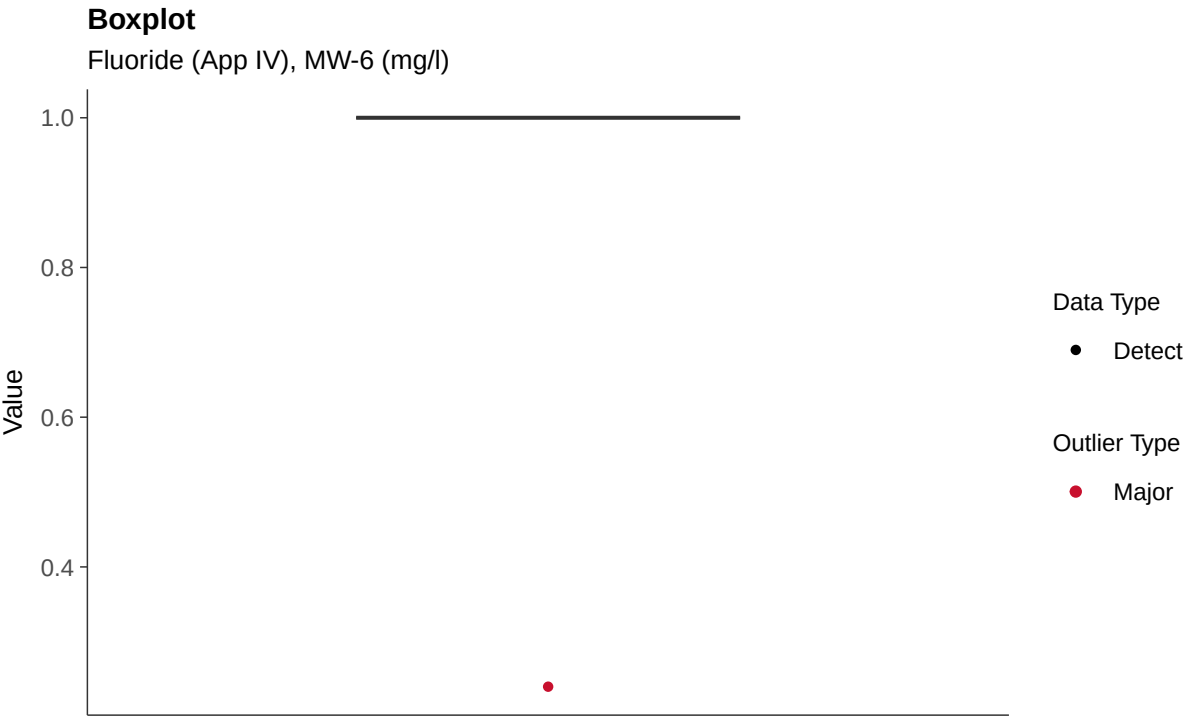


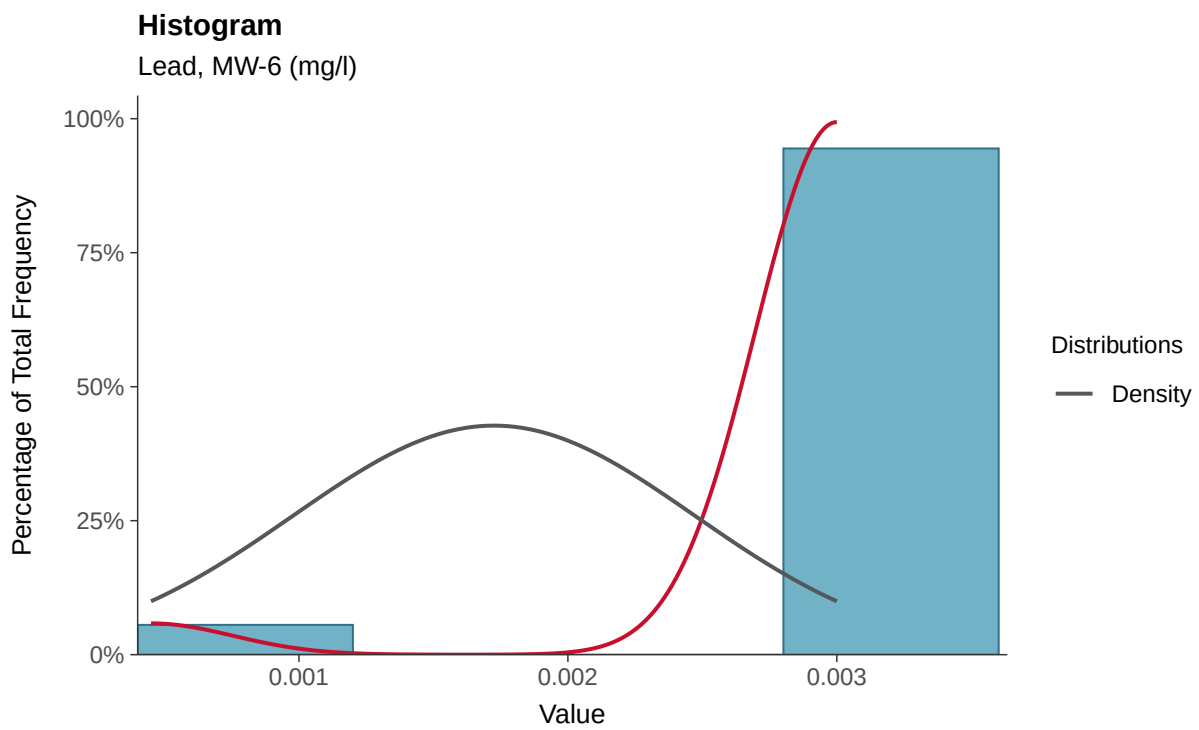


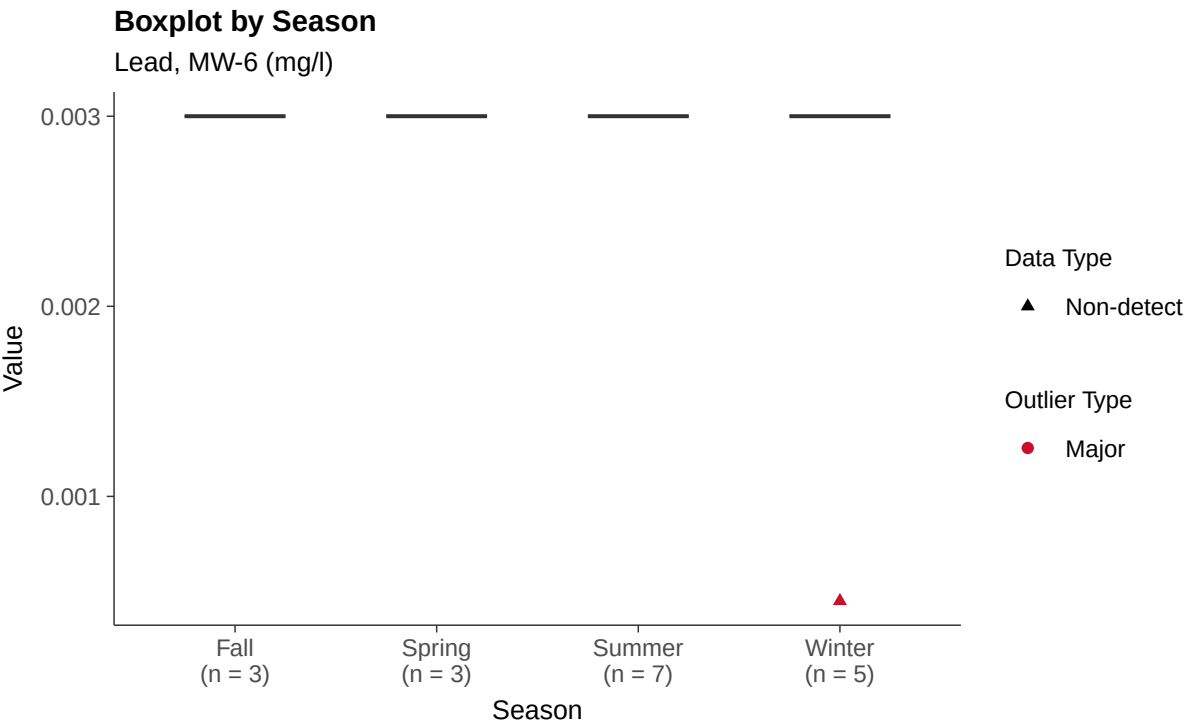
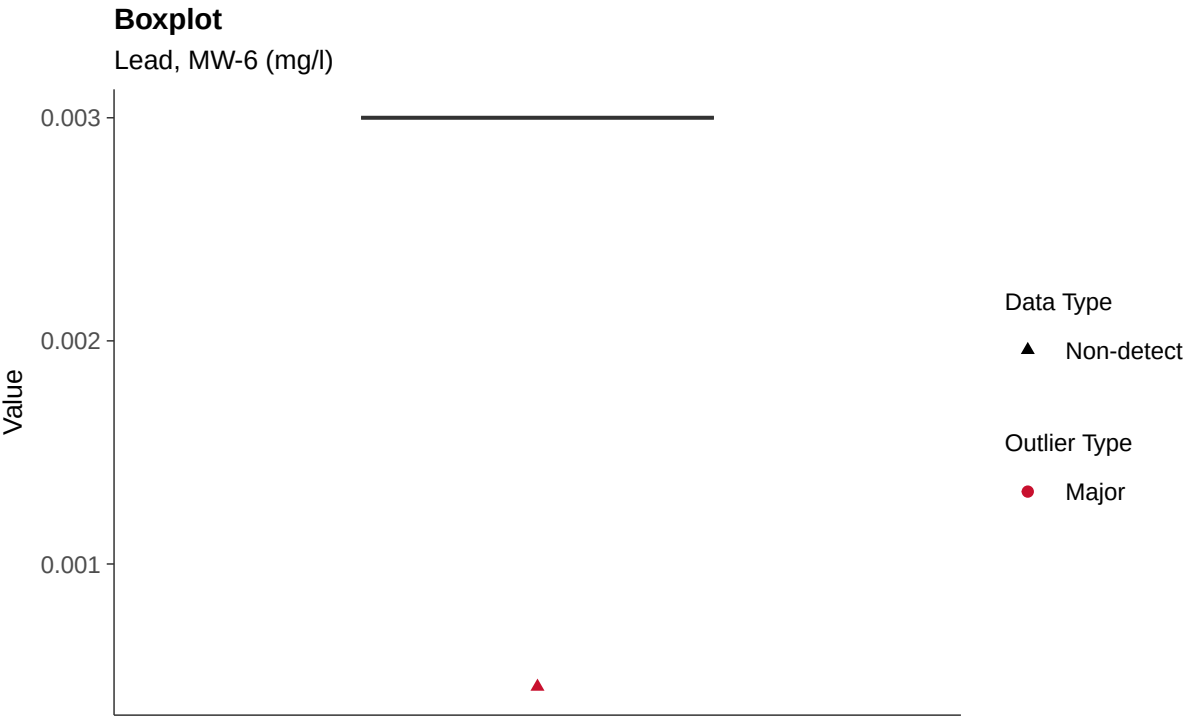
Appendix IV: Fluoride (App IV), MW-6

ID: 14_3_113





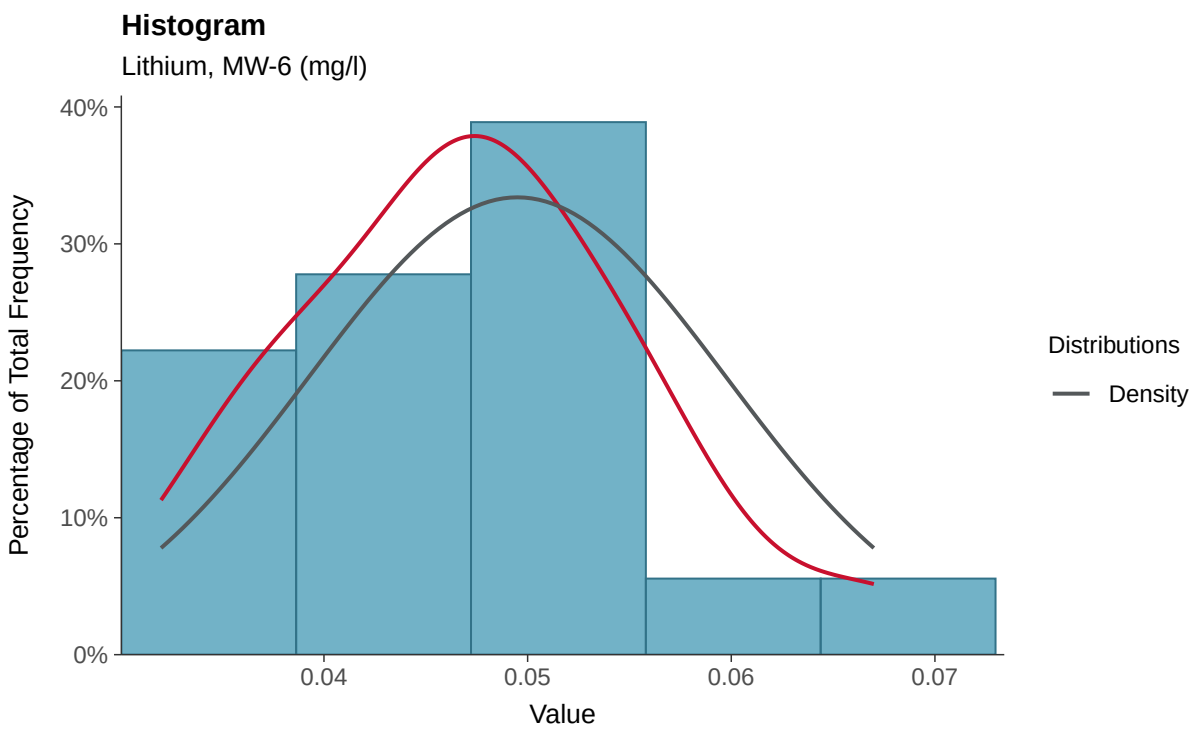
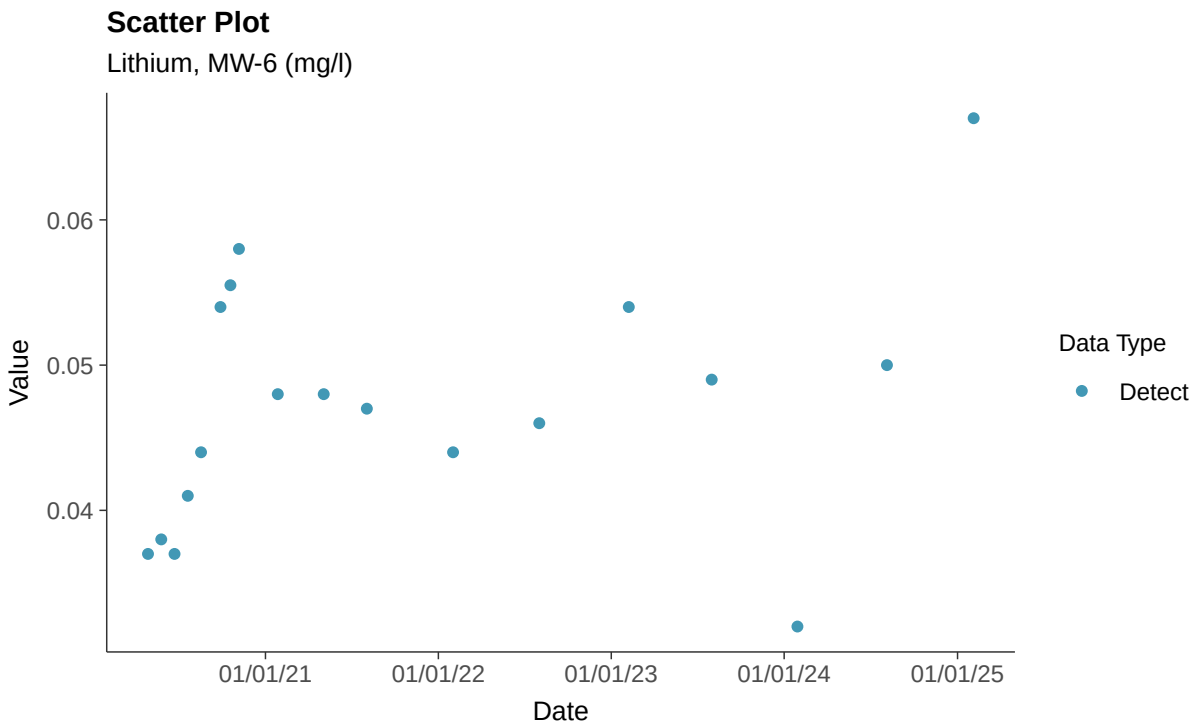


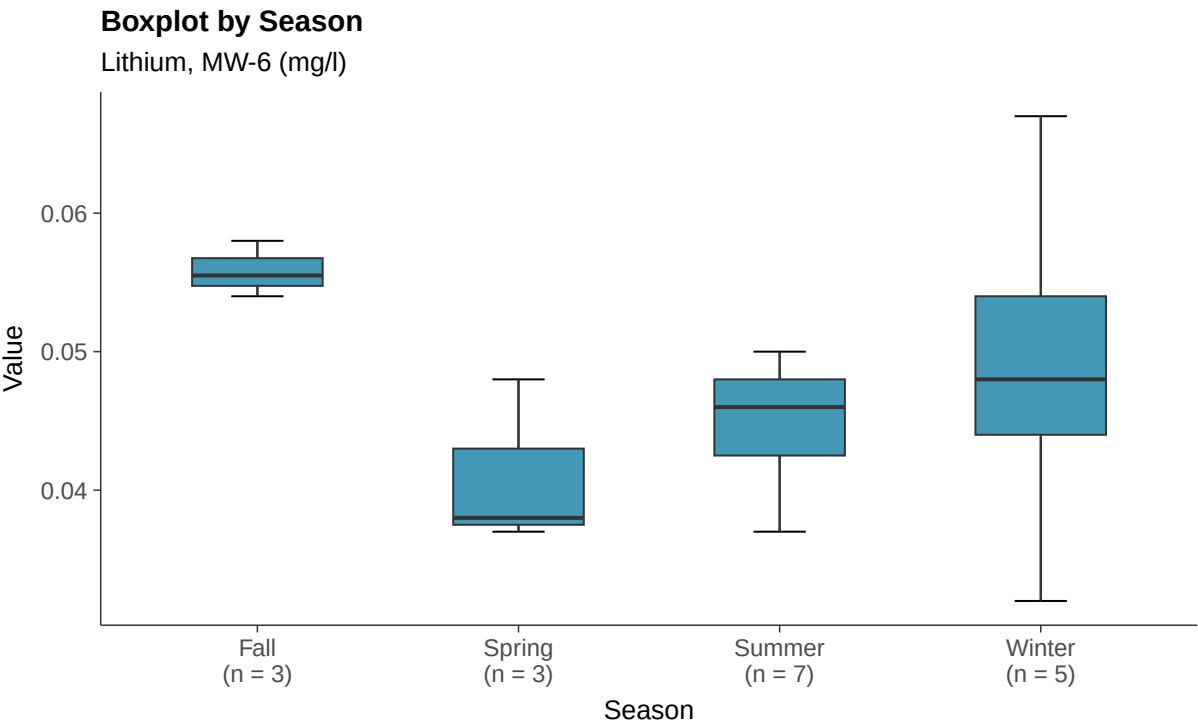
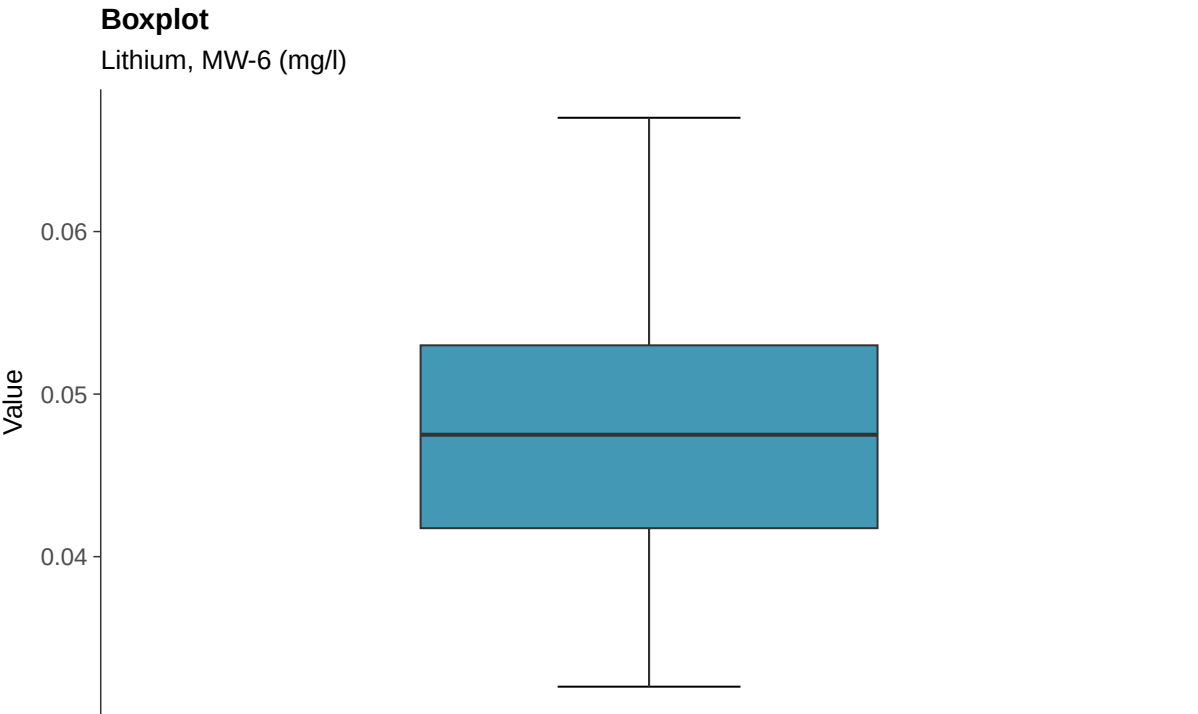


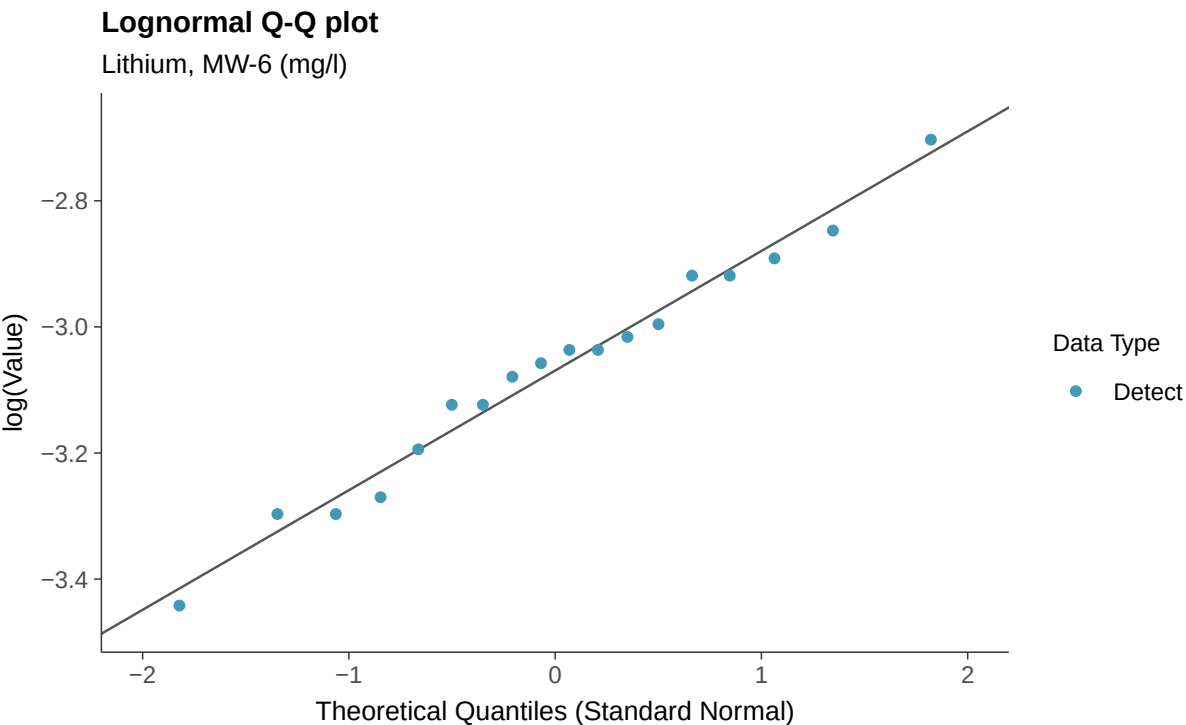
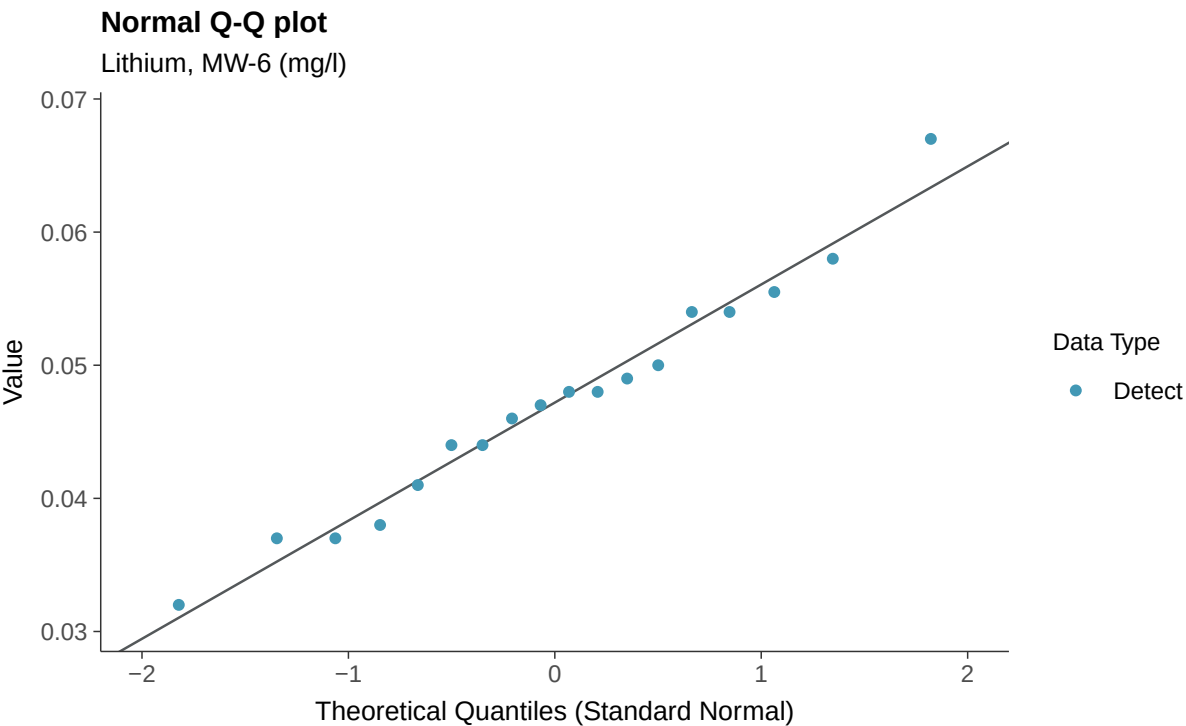


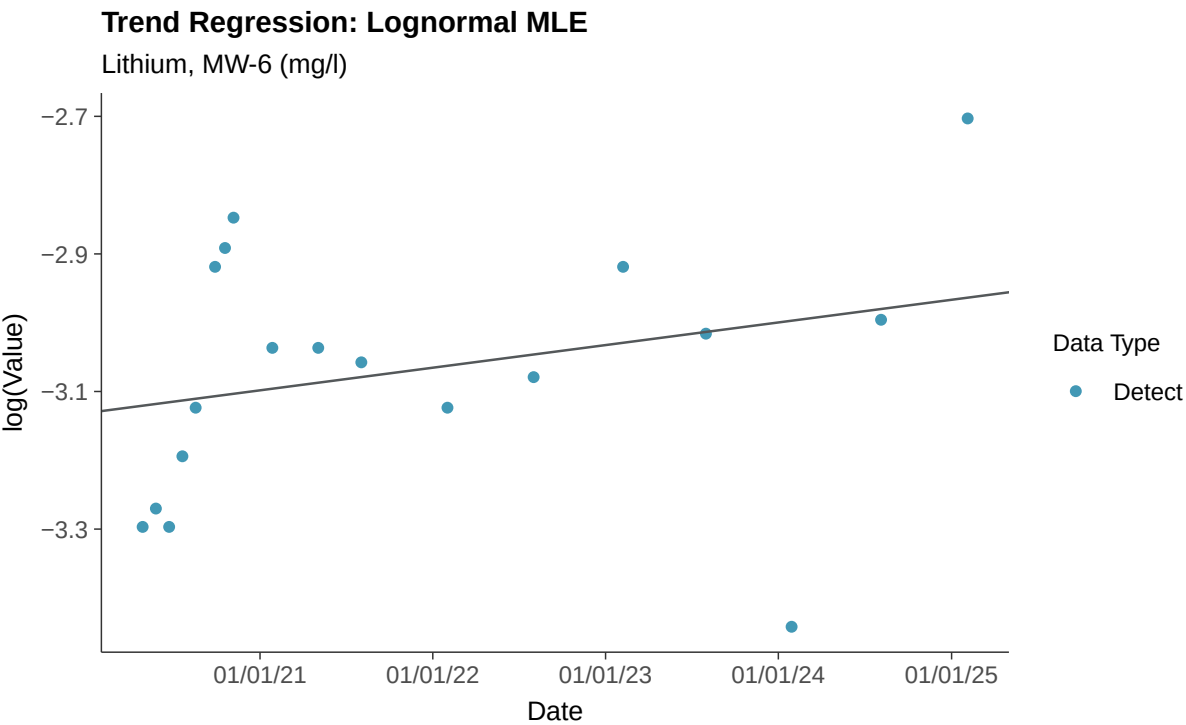
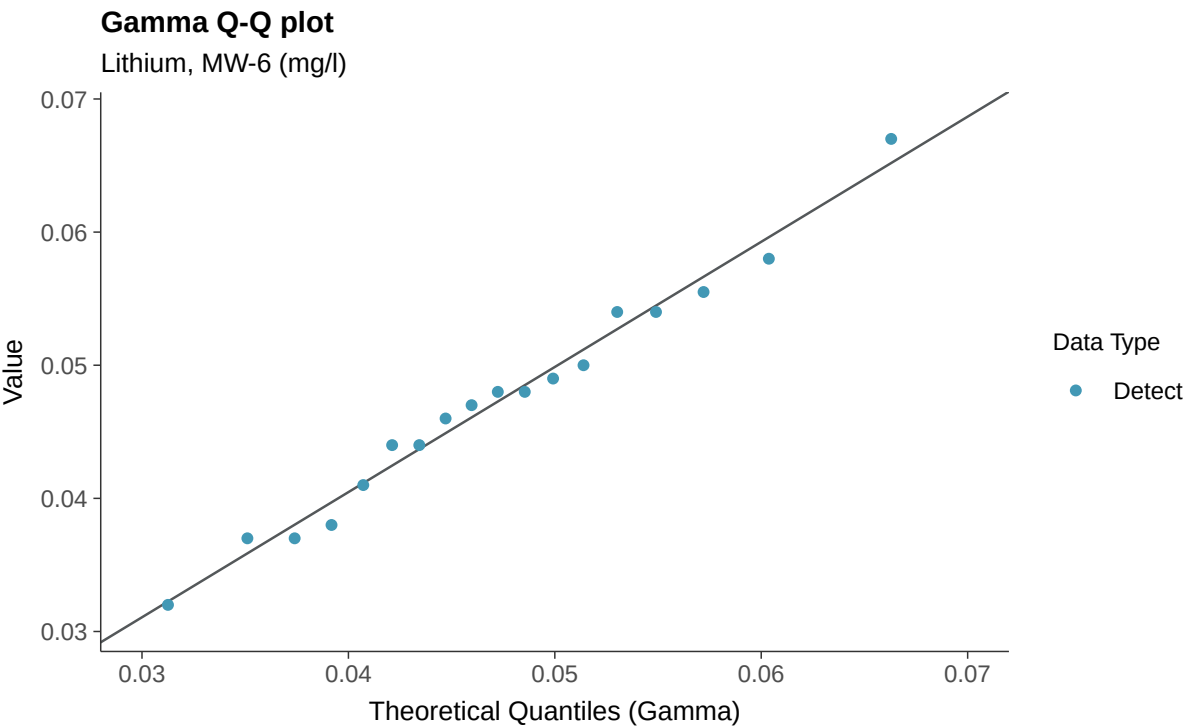
Appendix IV: Lithium, MW-6

ID: 14_3_116





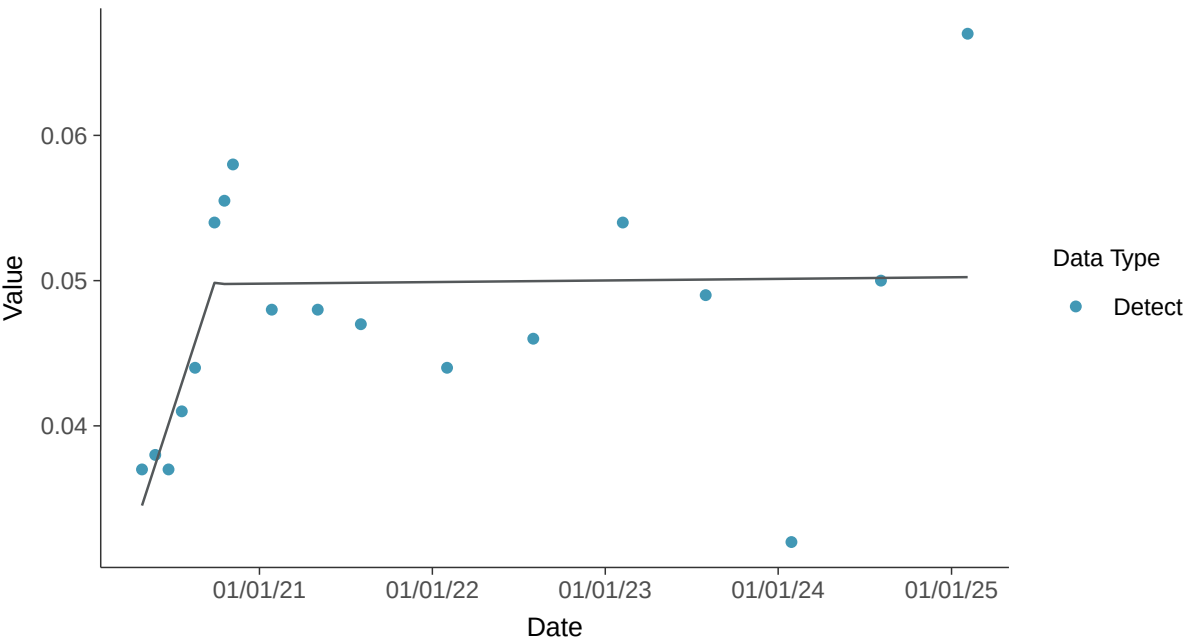






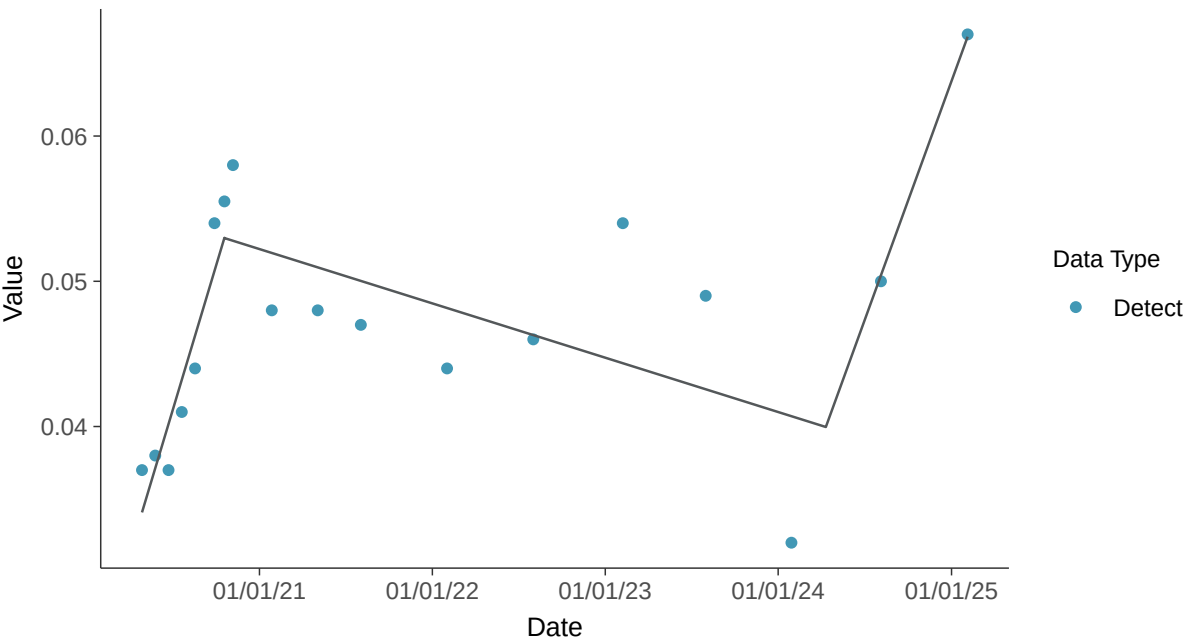
Trend Regression: Piecewise Linear-Linear

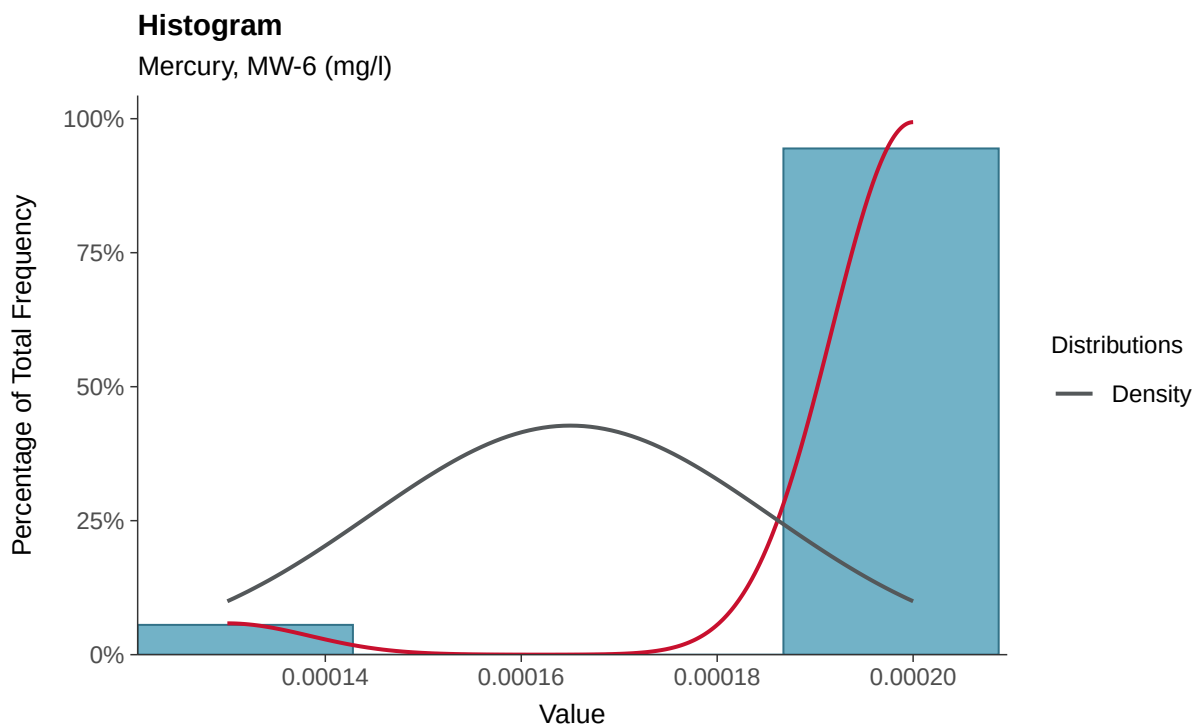
Lithium, MW-6 (mg/l)

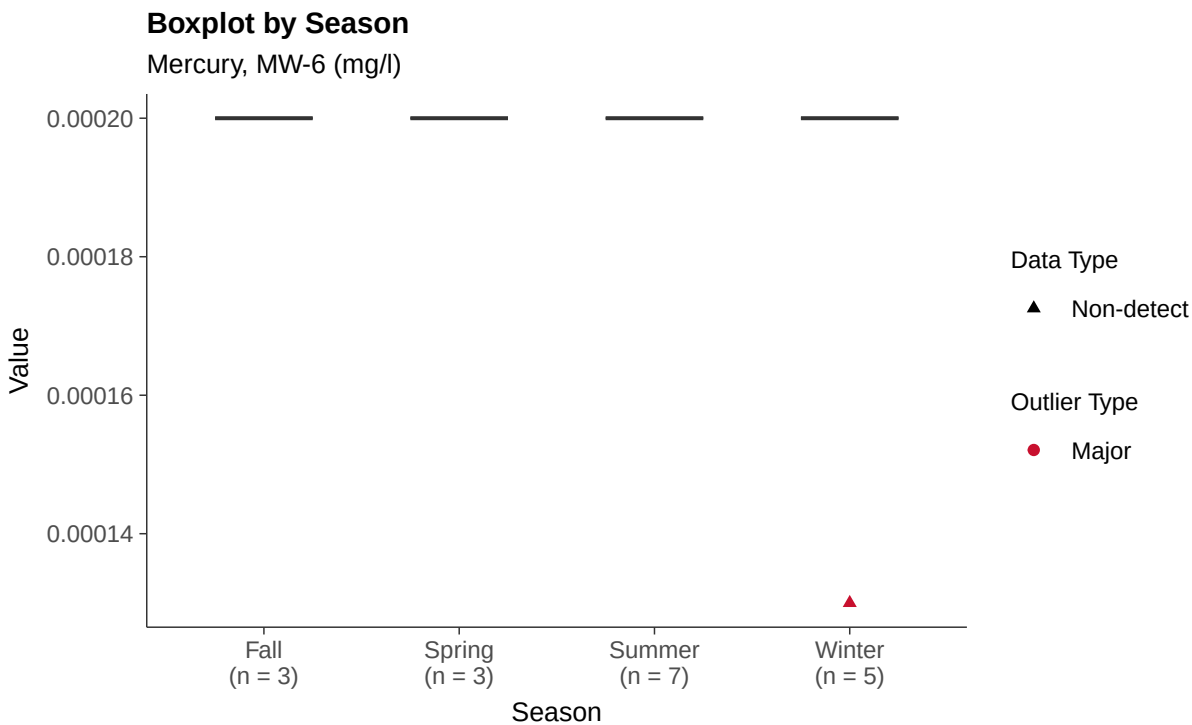
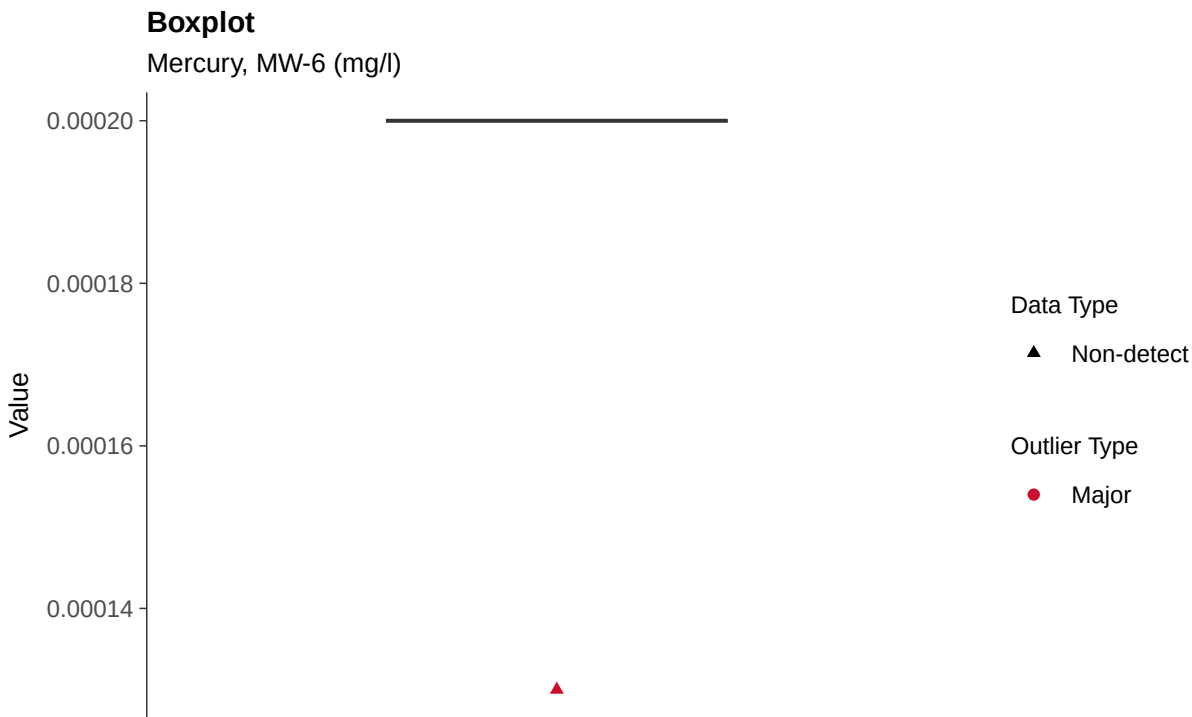


Trend Regression: Piecewise Linear-Linear-Linear

Lithium, MW-6 (mg/l)



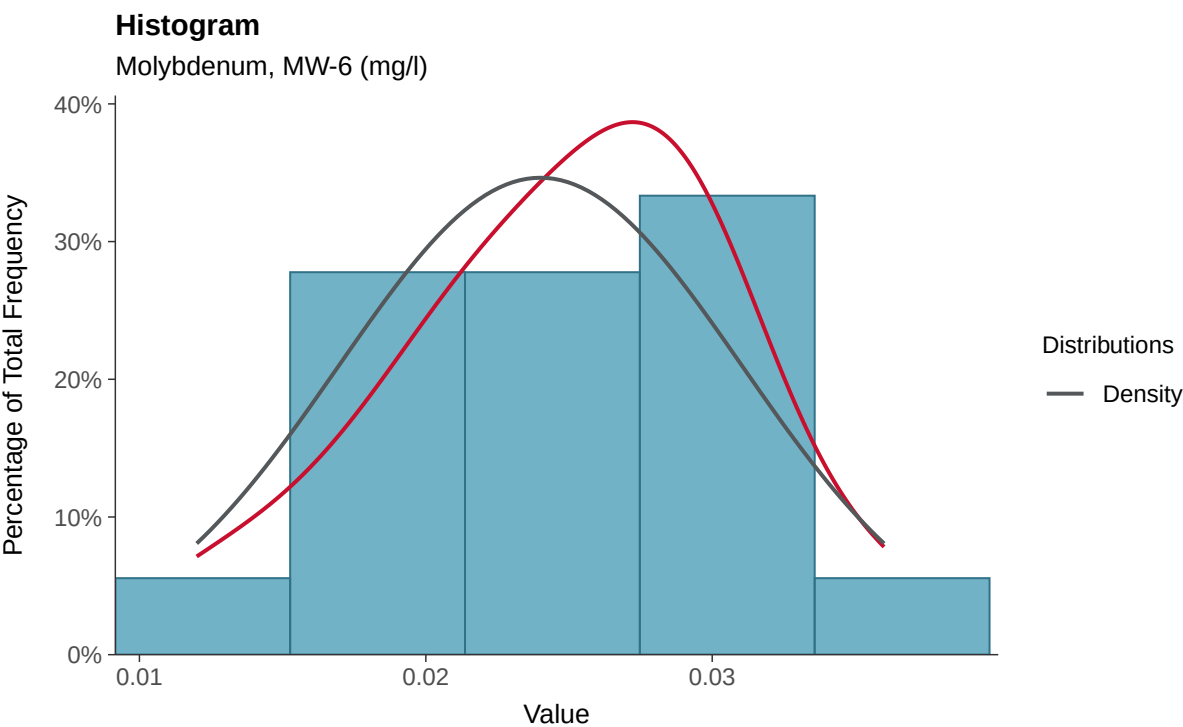
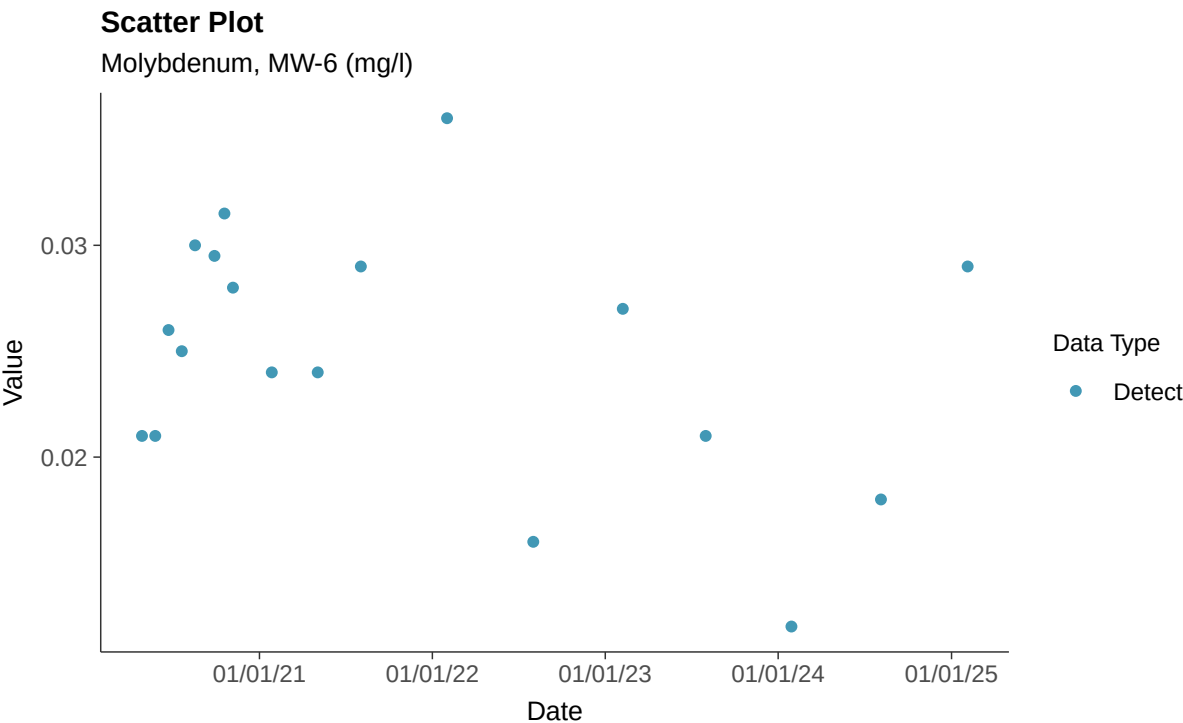


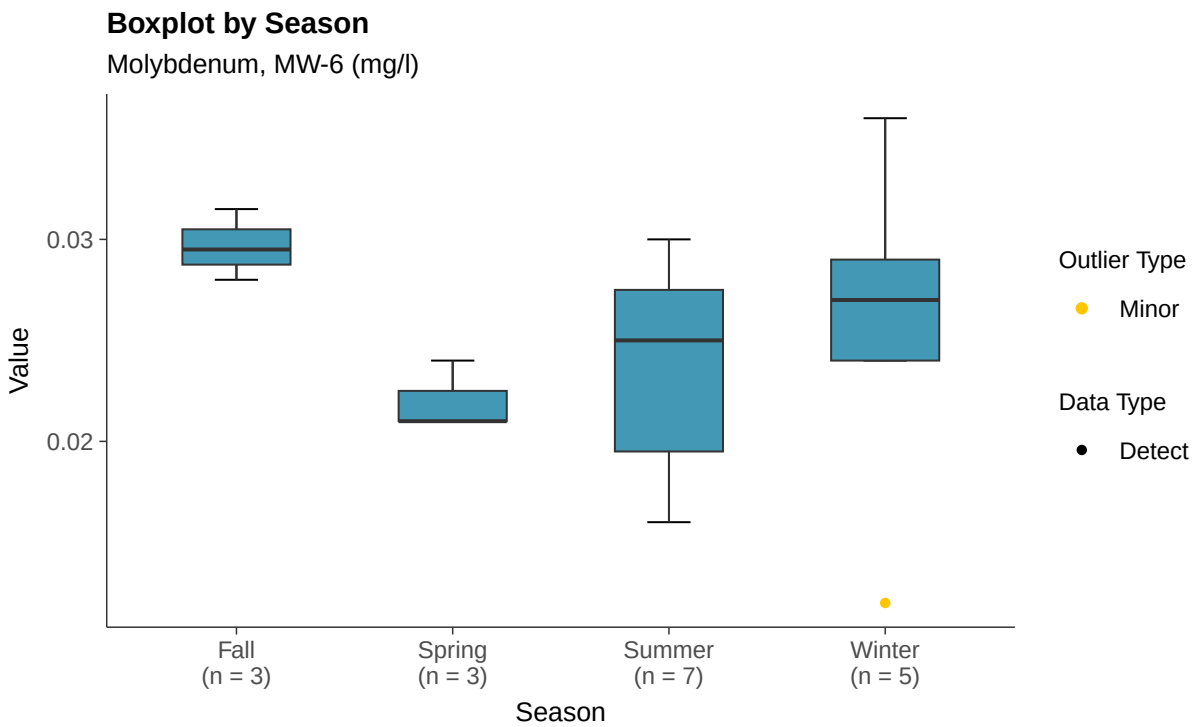
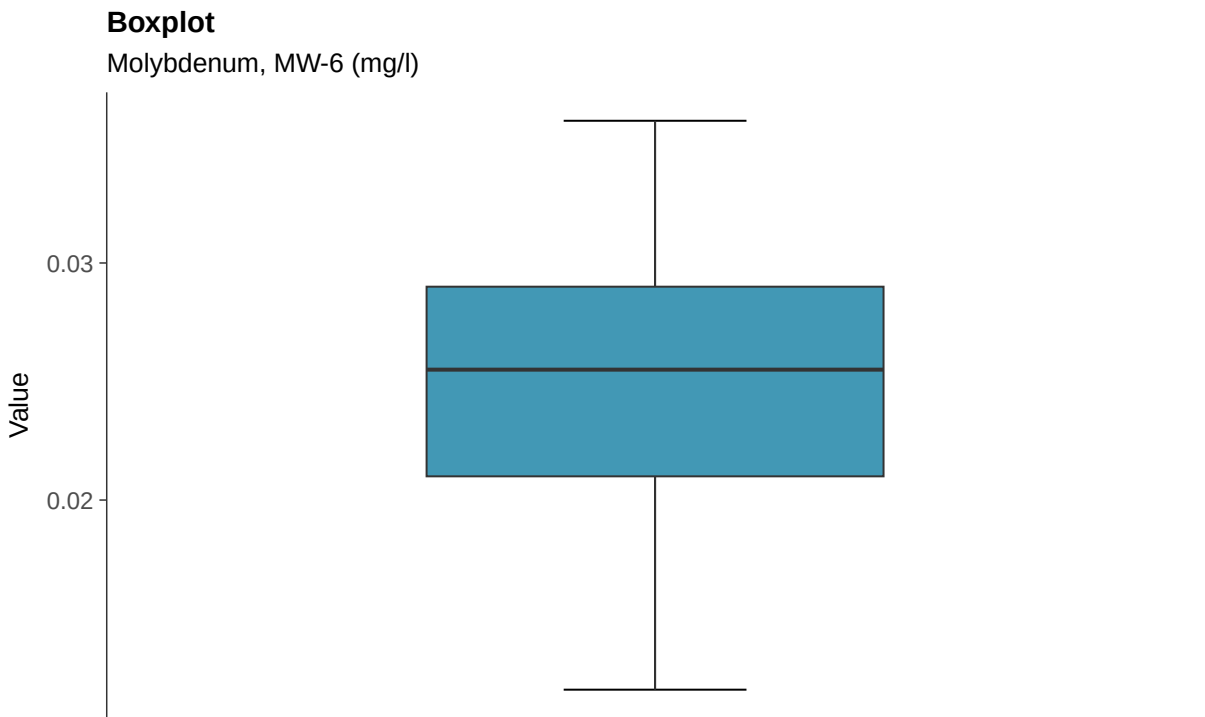


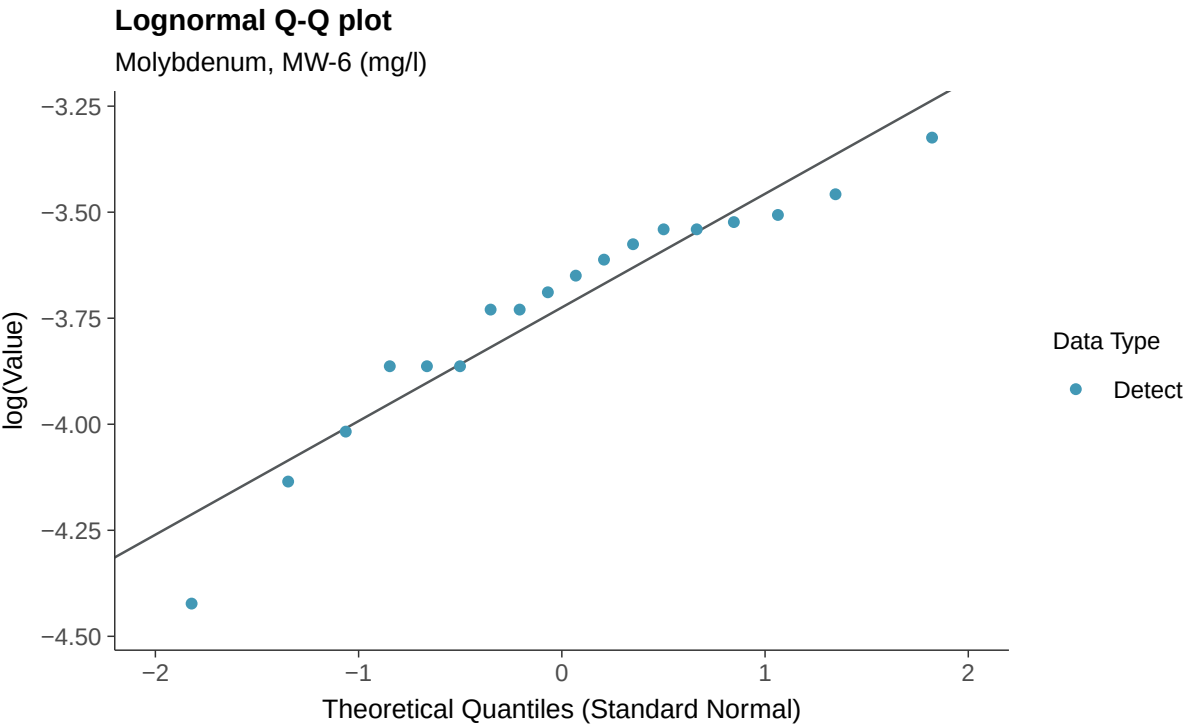
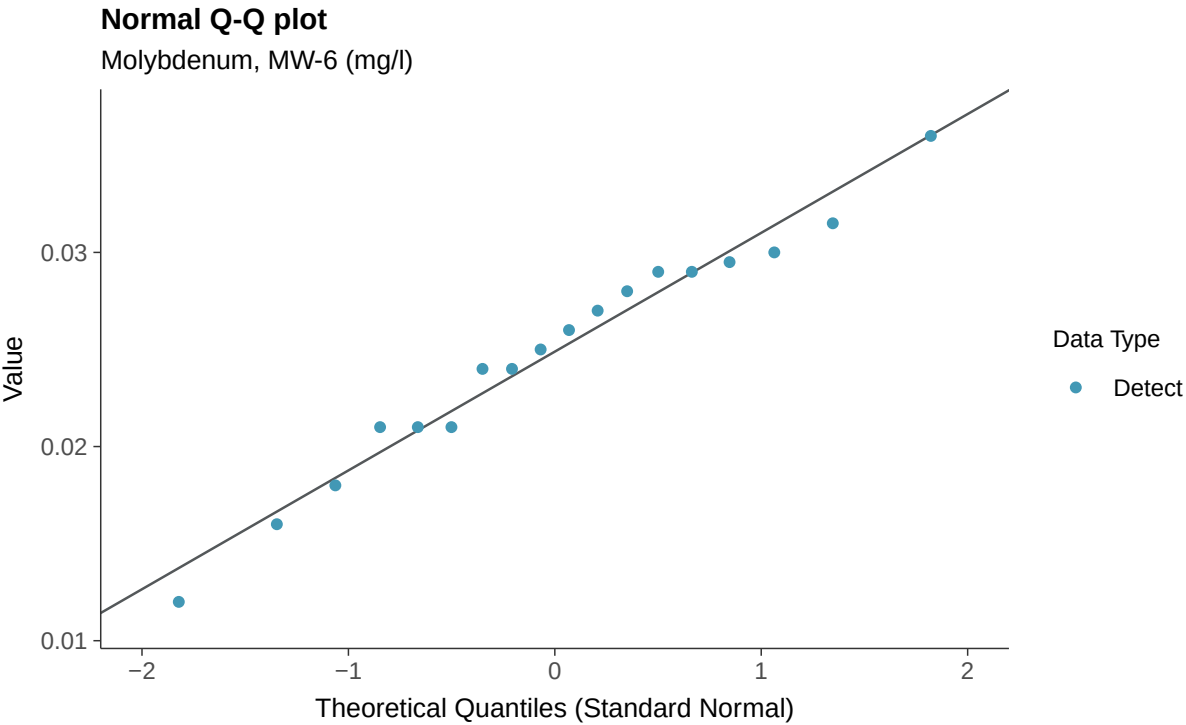


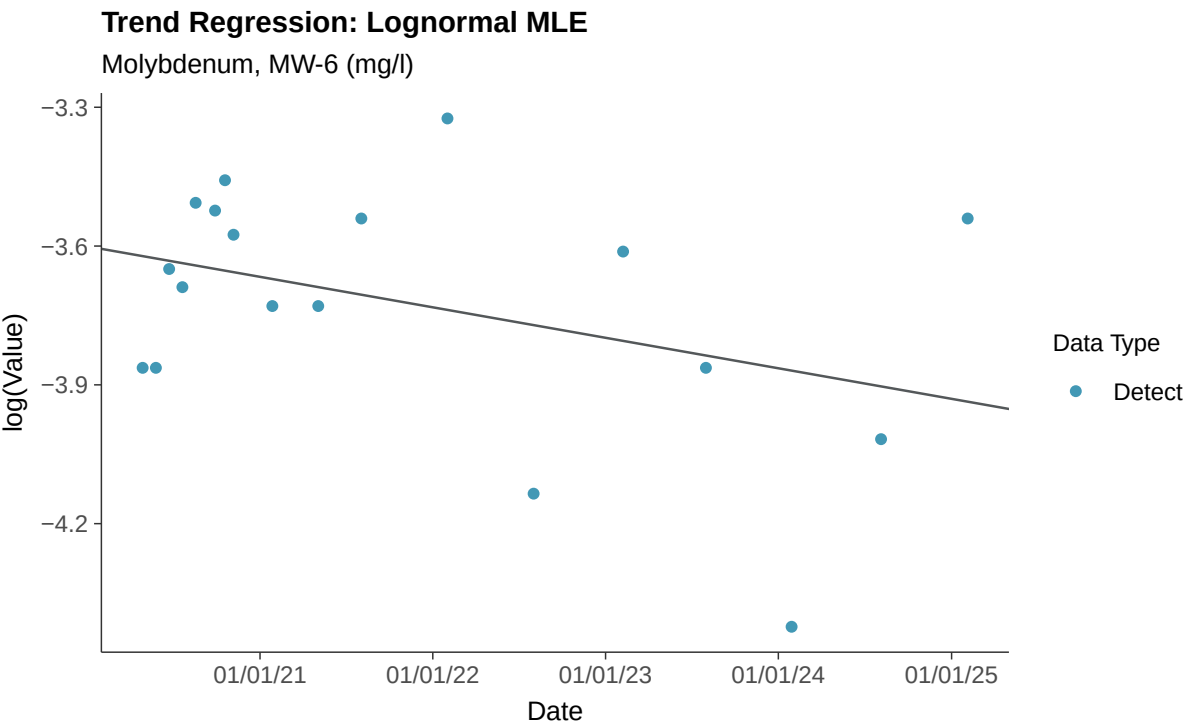
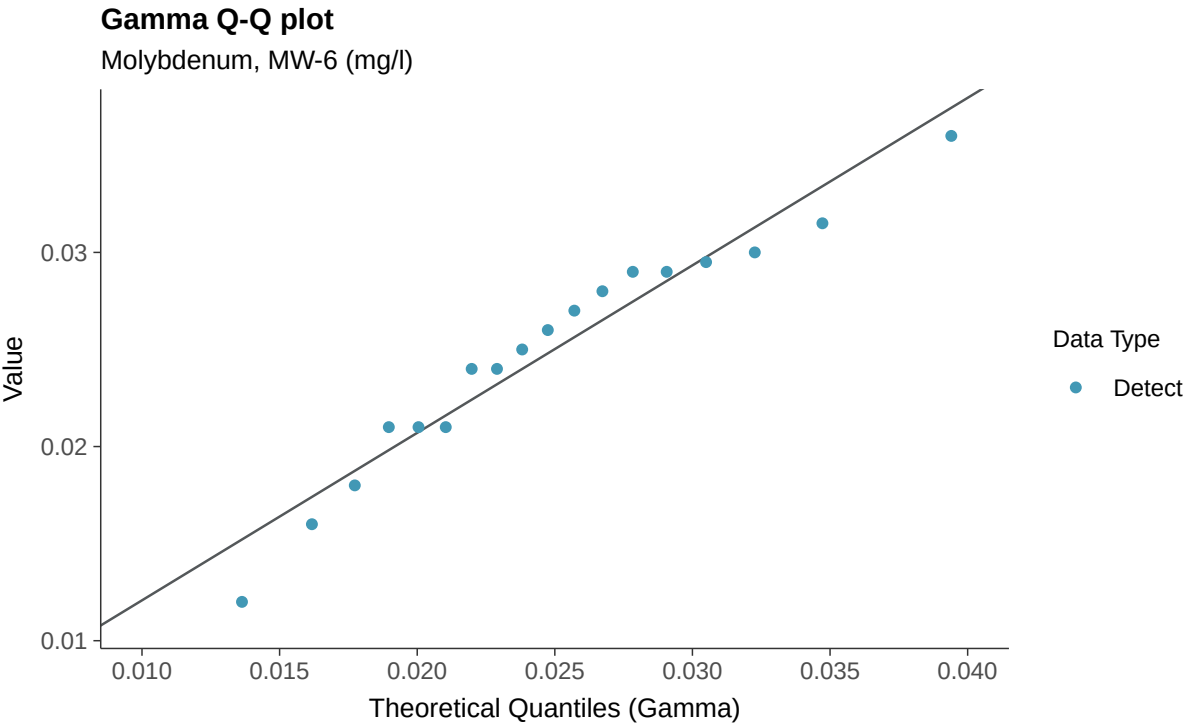
Appendix IV: Molybdenum, MW-6

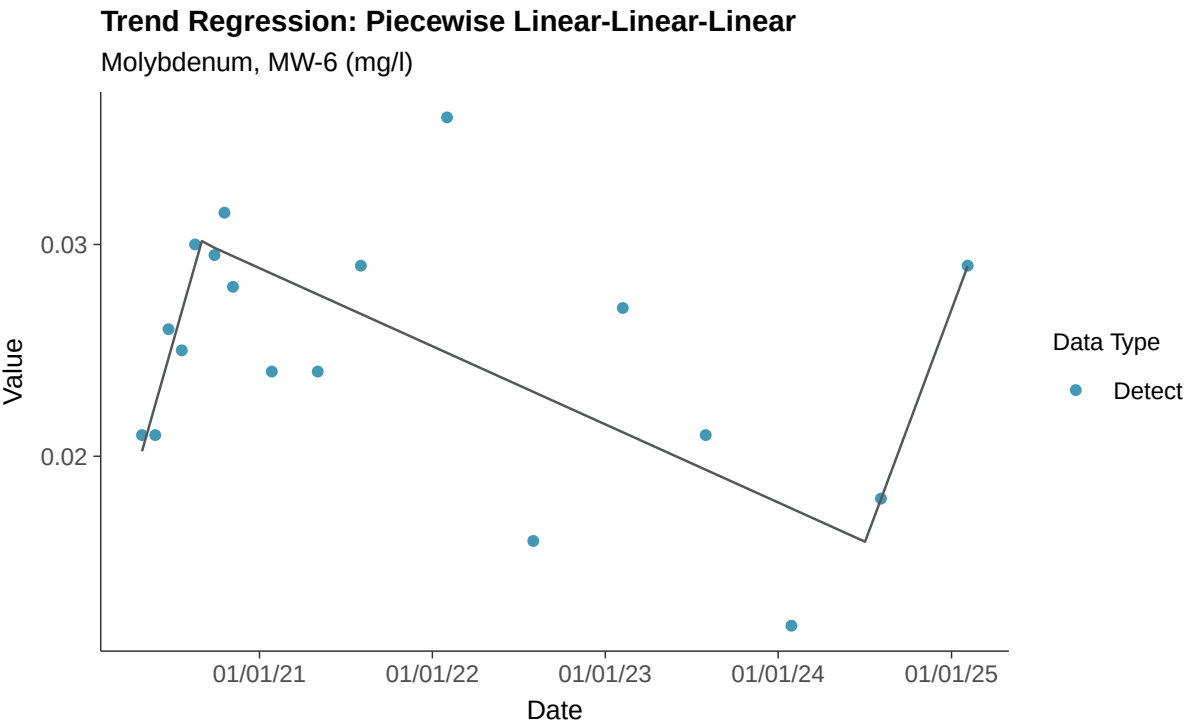
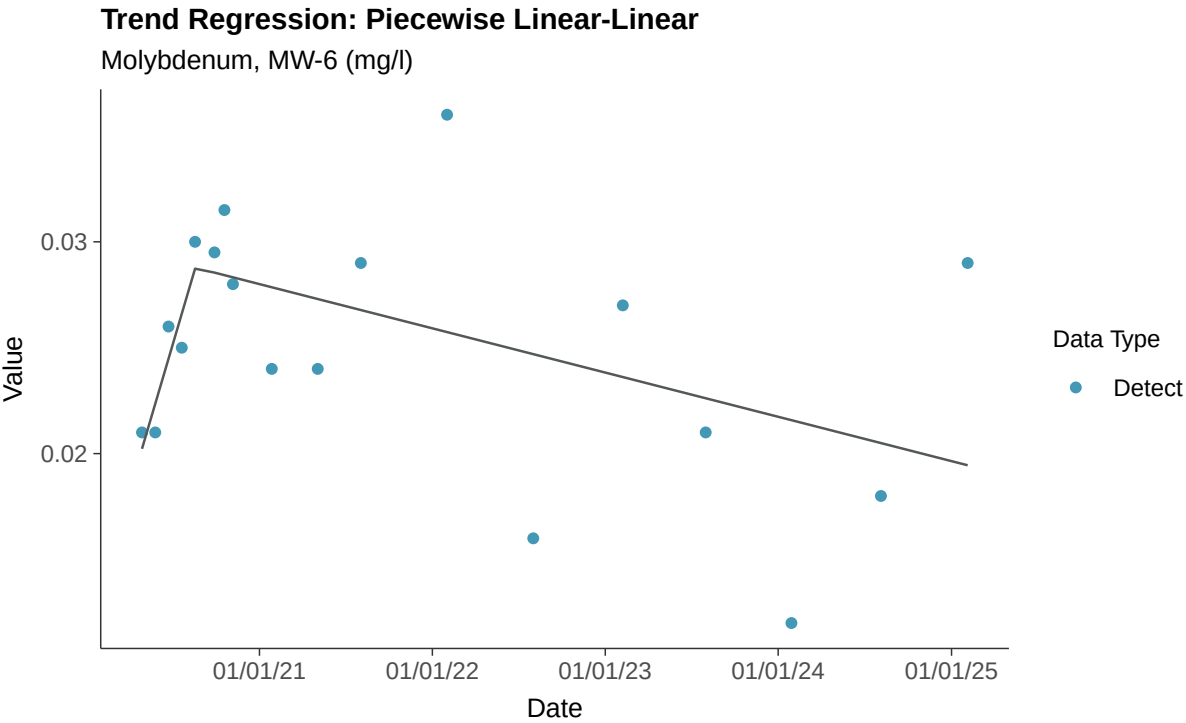
ID: 14_3_118







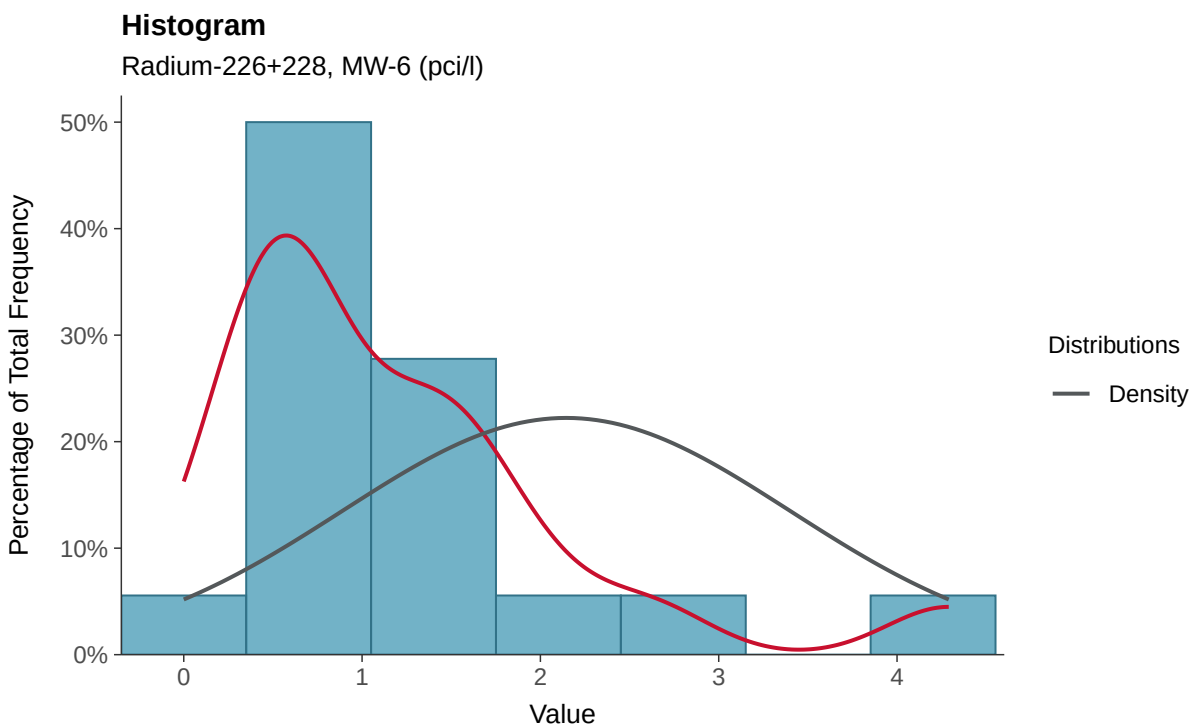
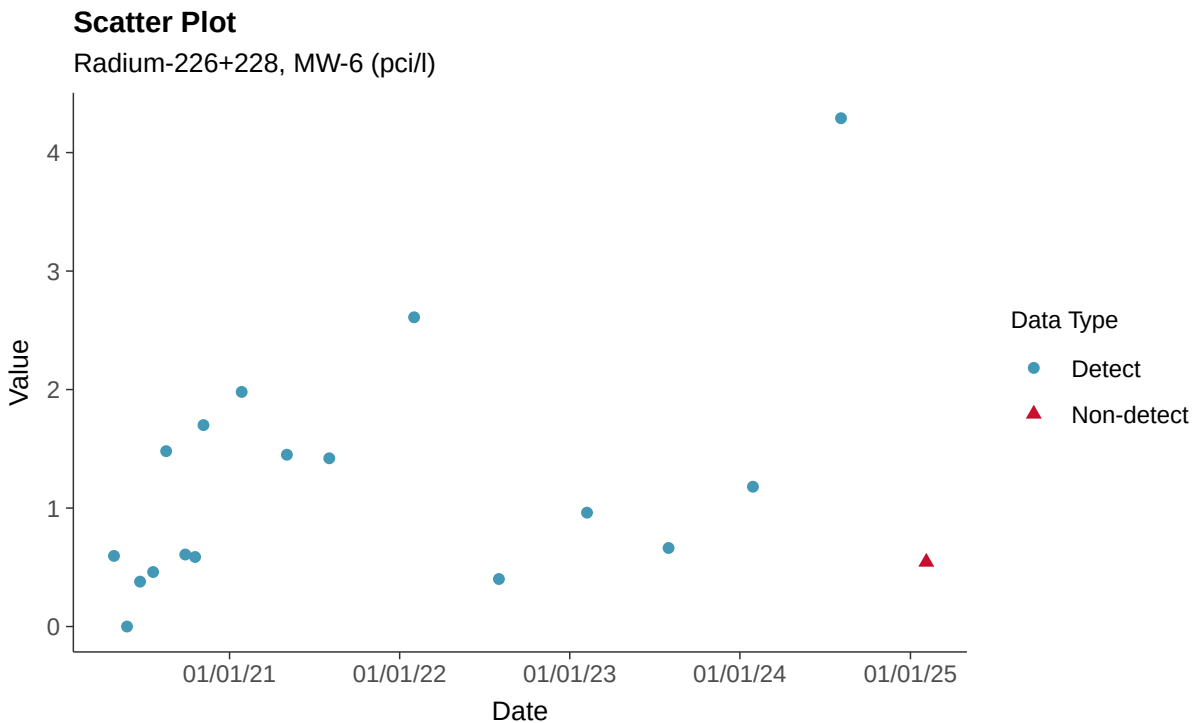


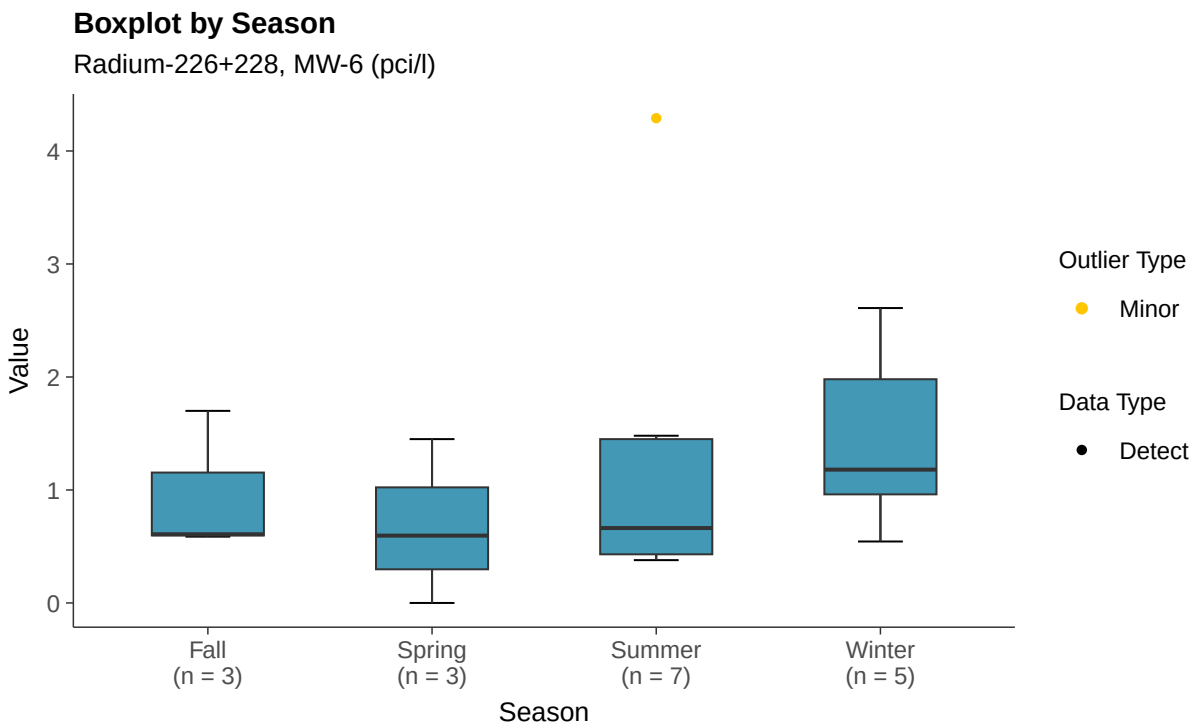
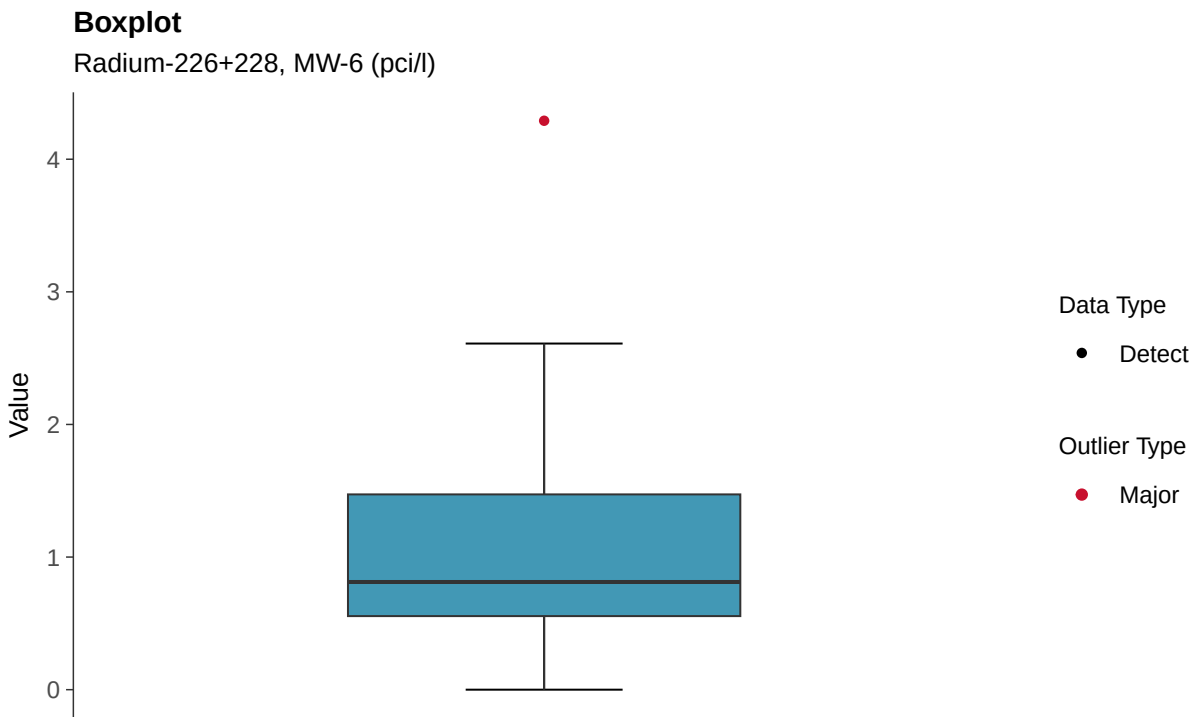




Appendix IV: Radium-226+228, MW-6

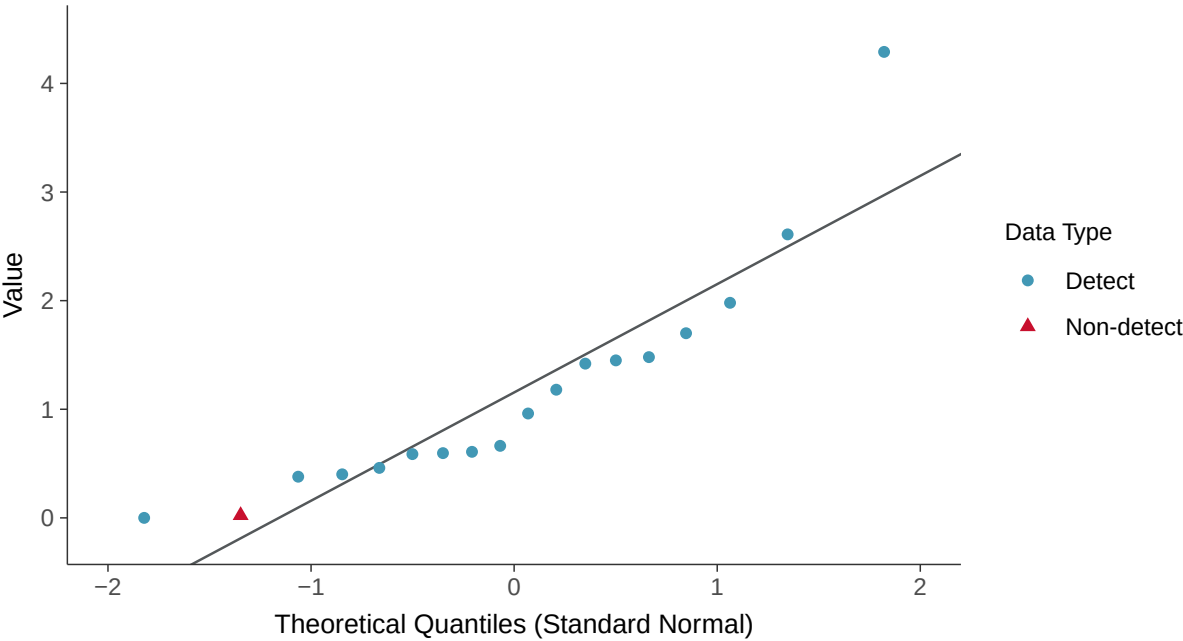
ID: 14_3_121

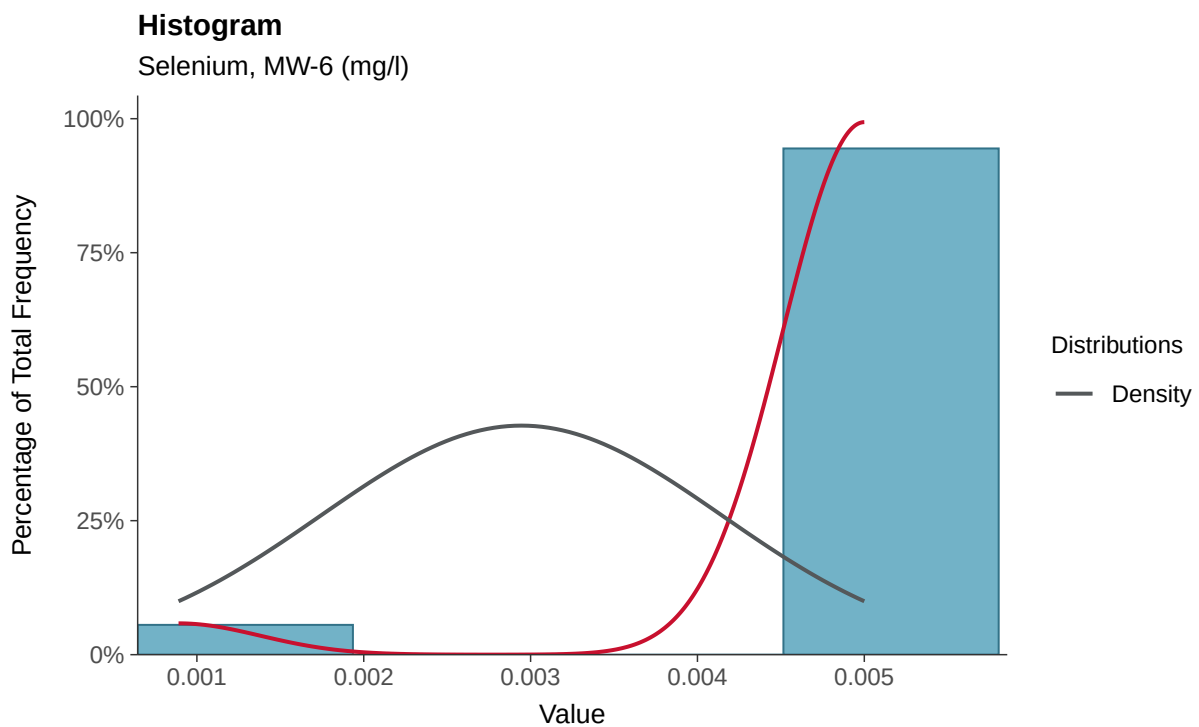


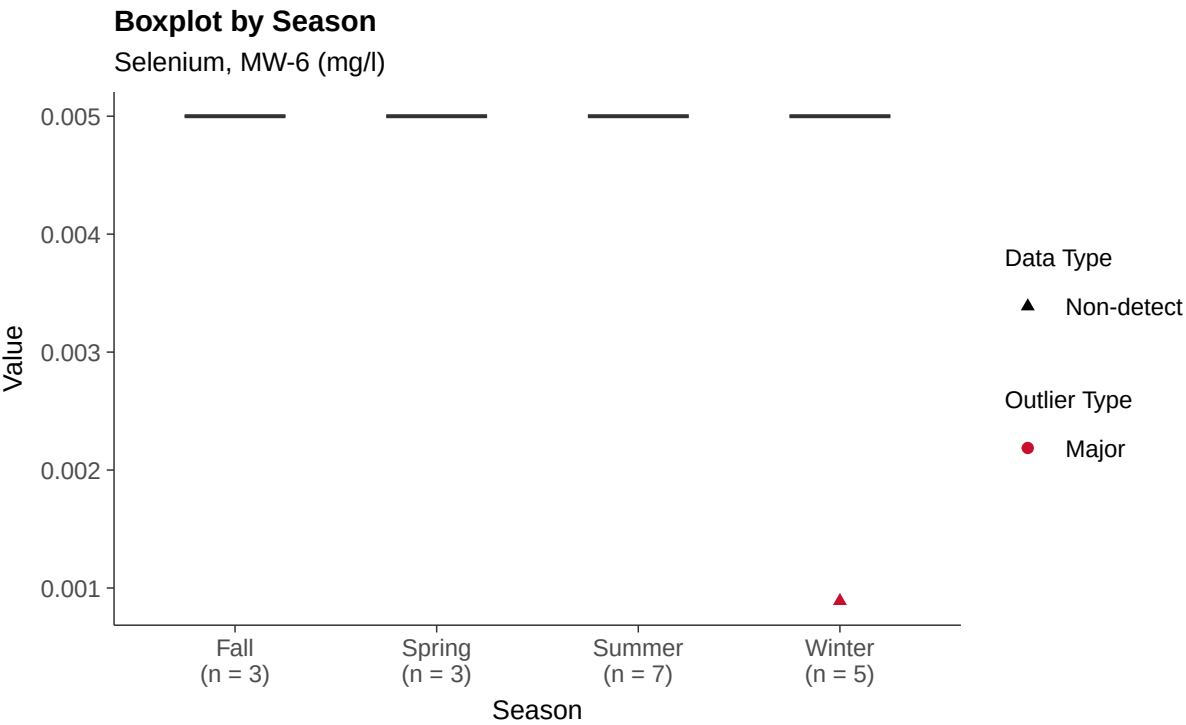
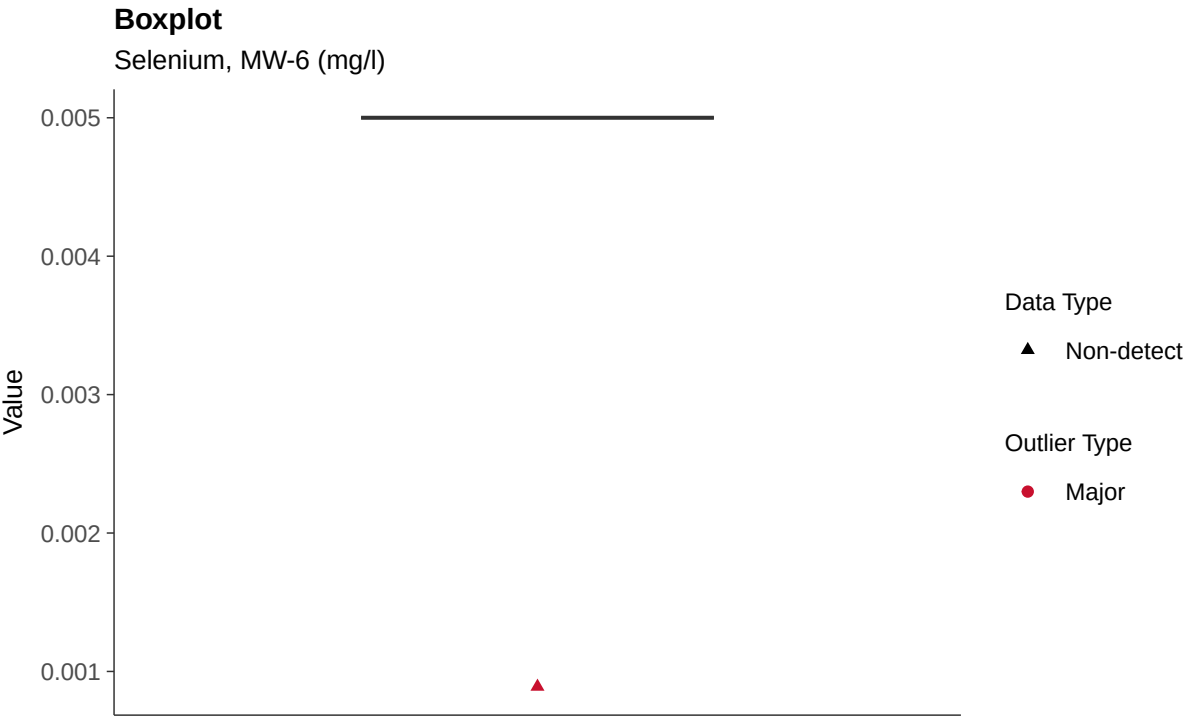


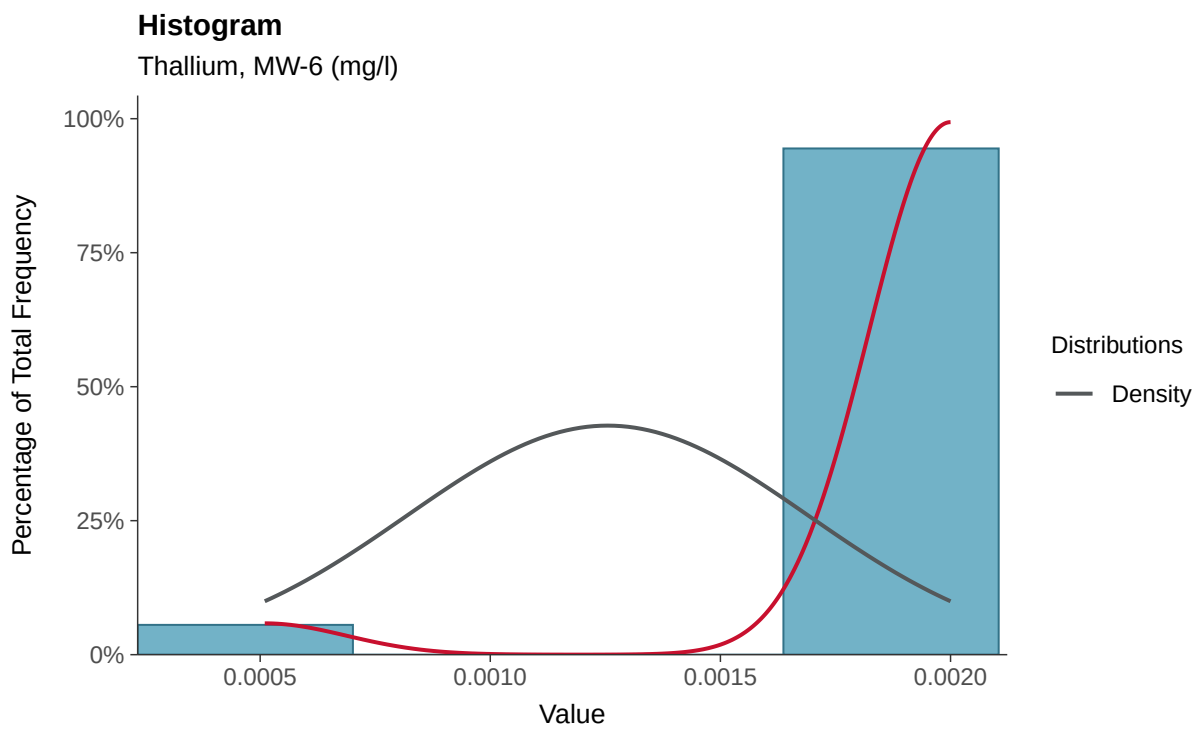


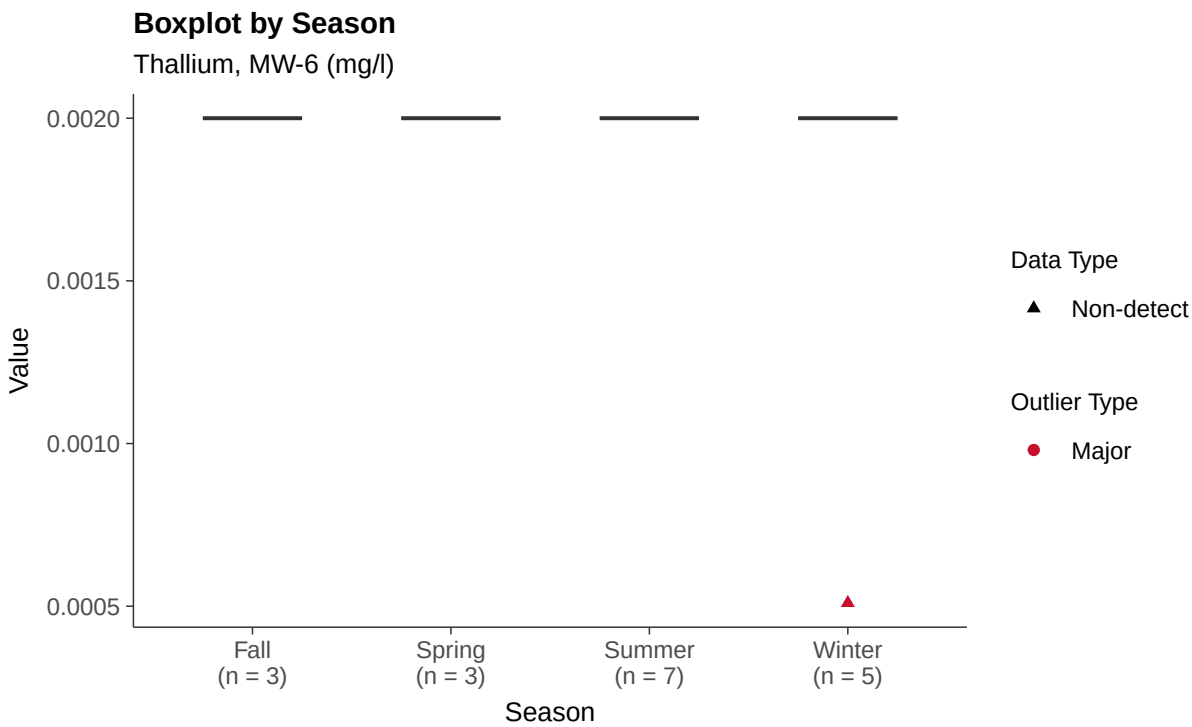
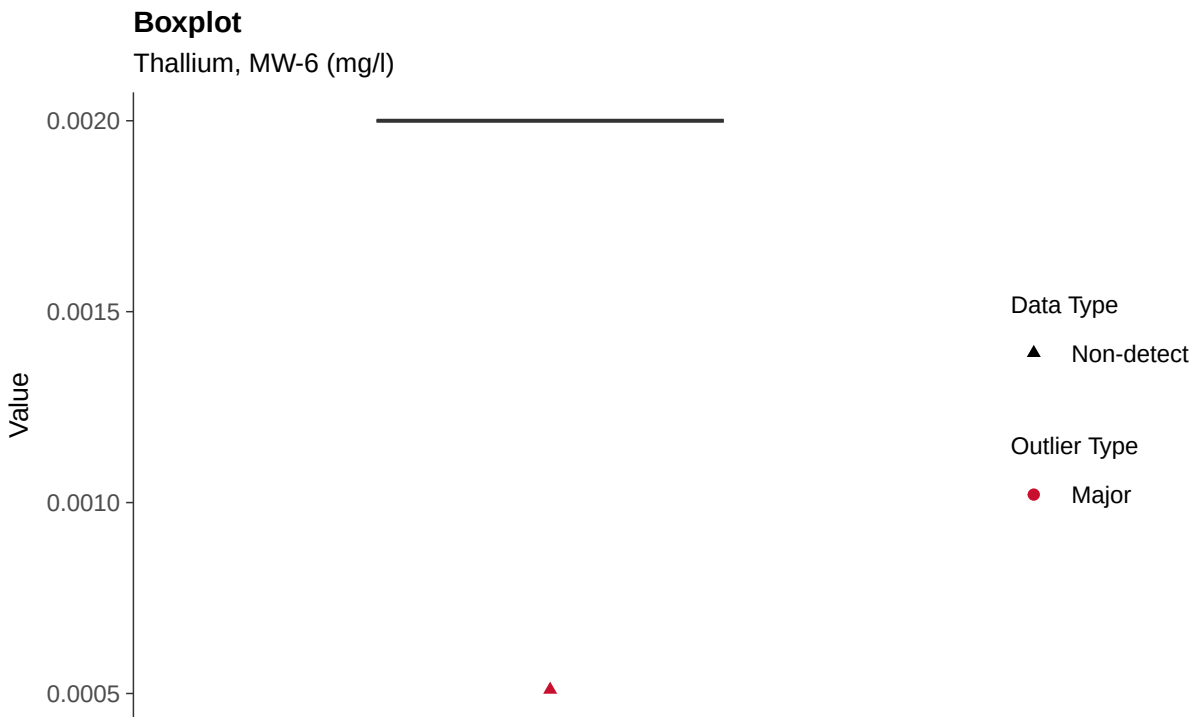
Normal Q-Q plot using ROS Imputed Estimates
Radium-226+228, MW-6 (pci/l)







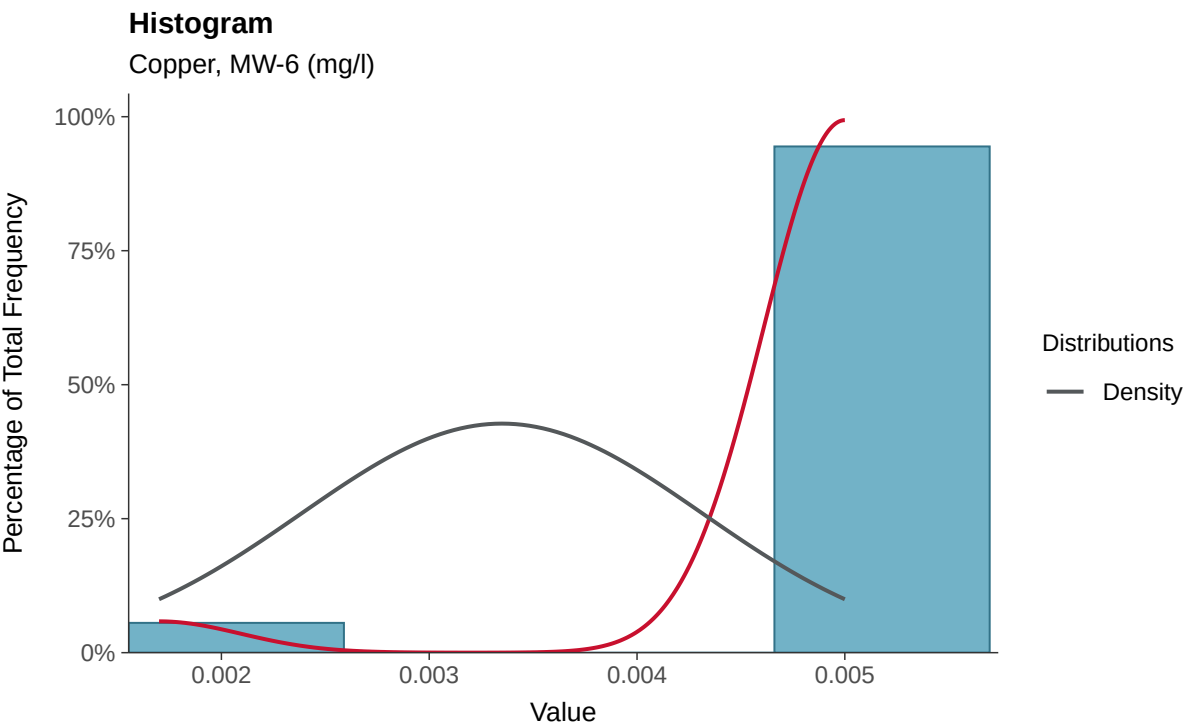
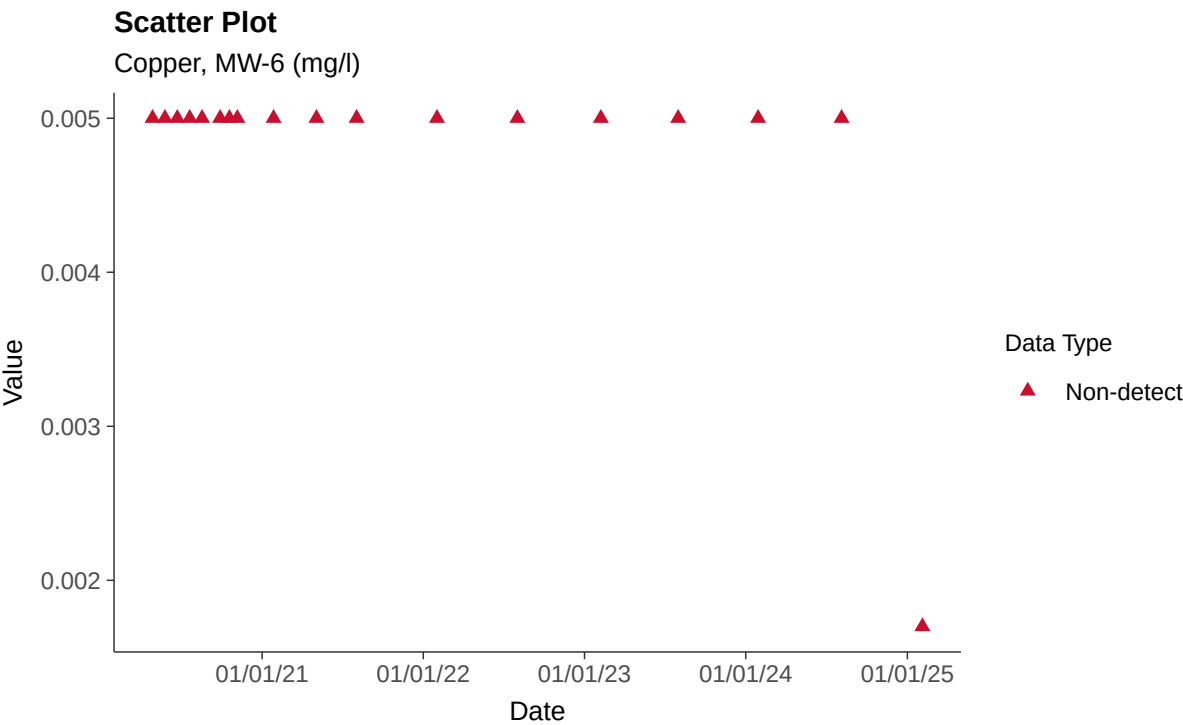


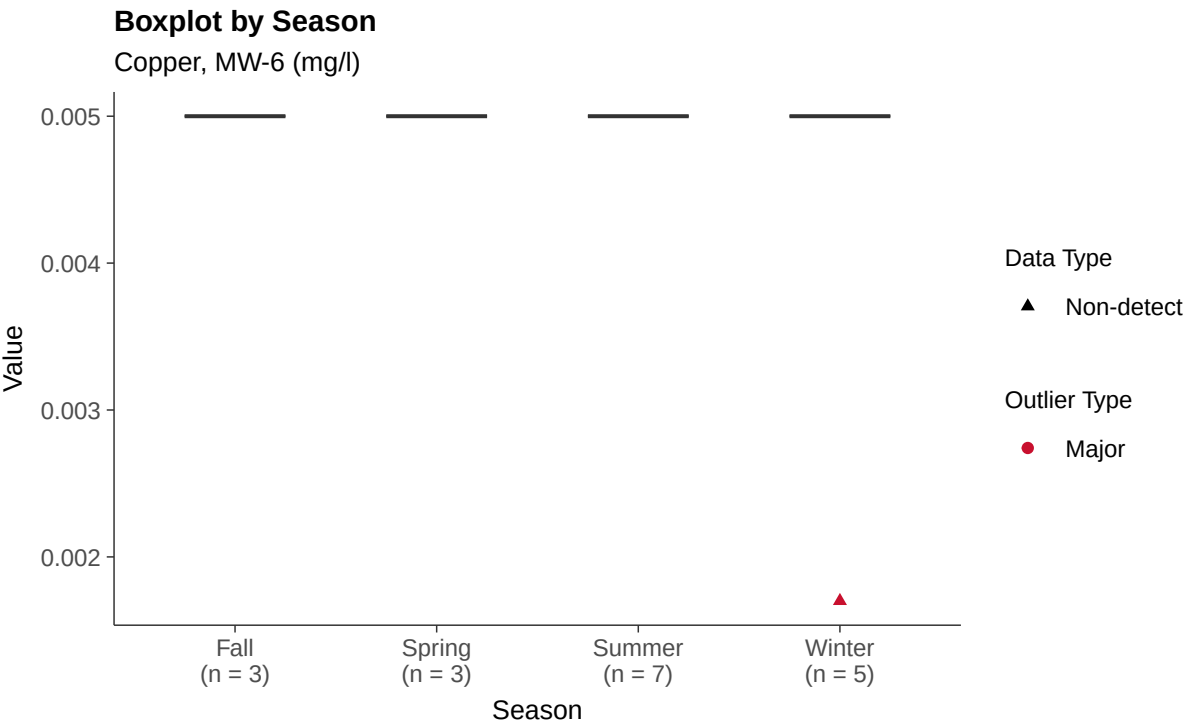
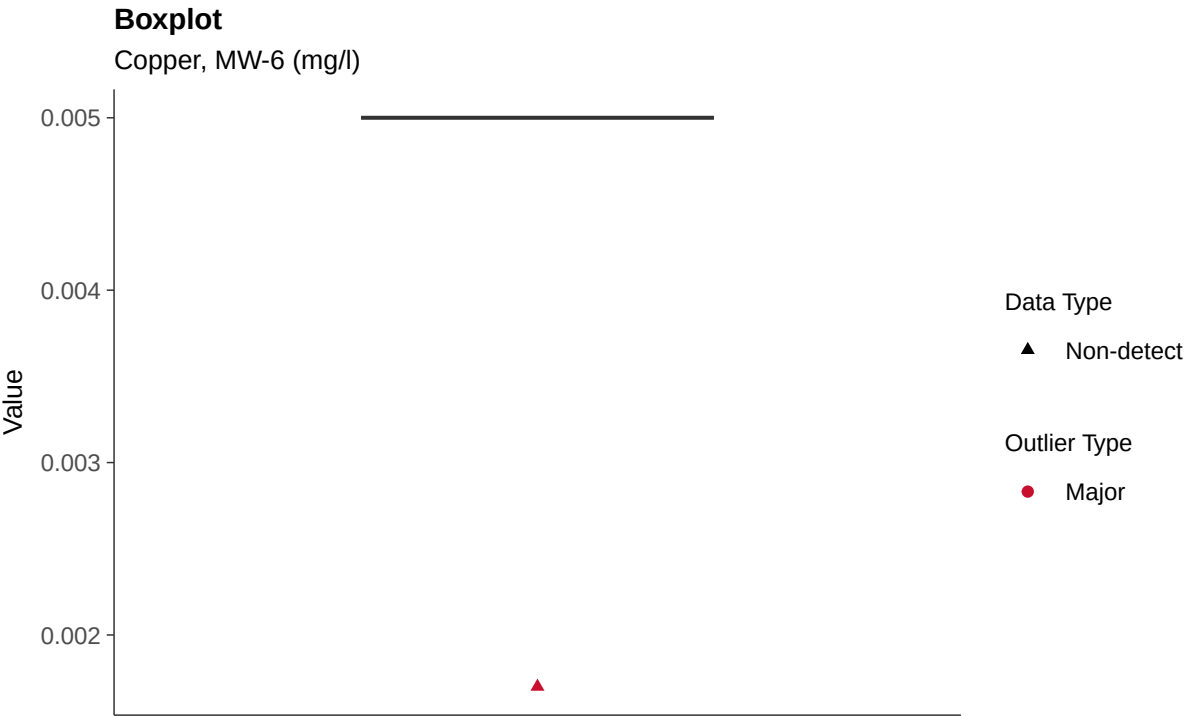




Part 115: Copper, MW-6

ID: 14_5_111

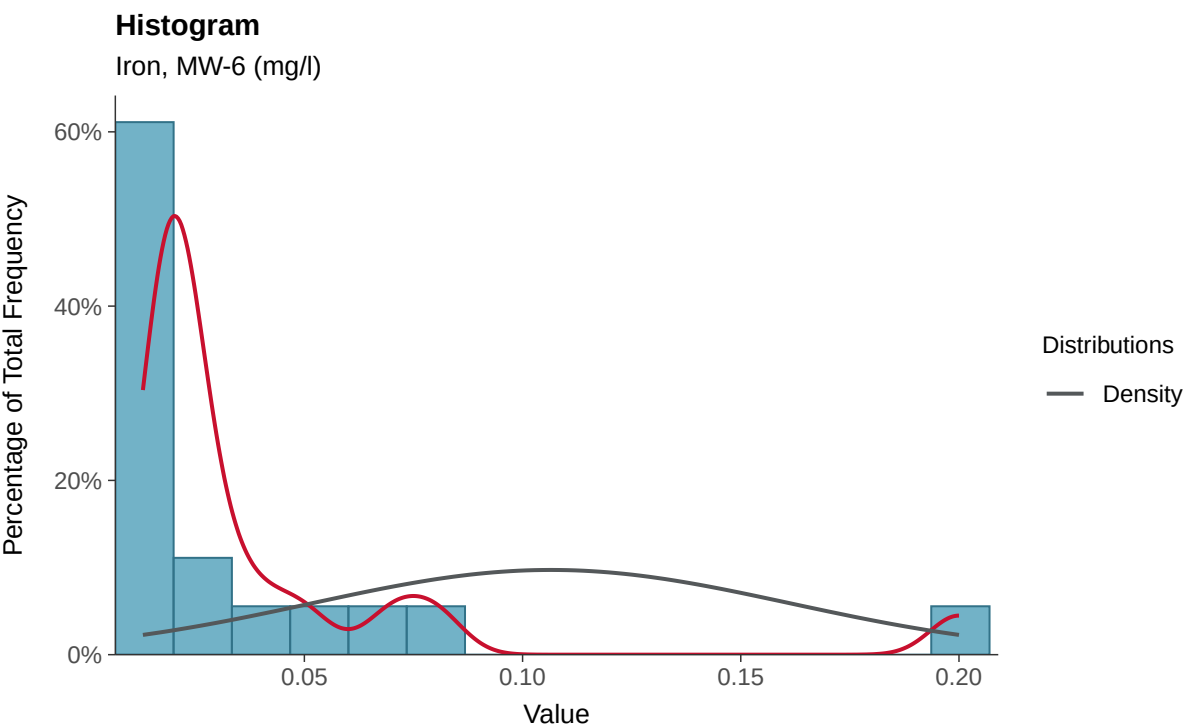
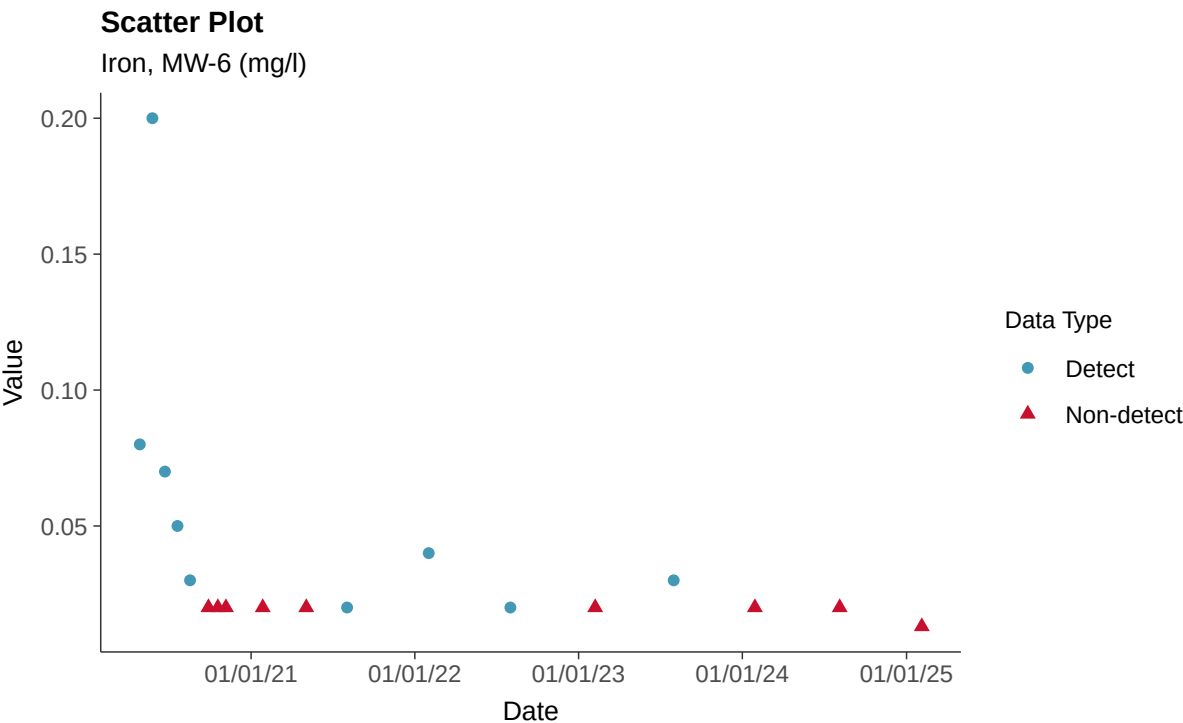


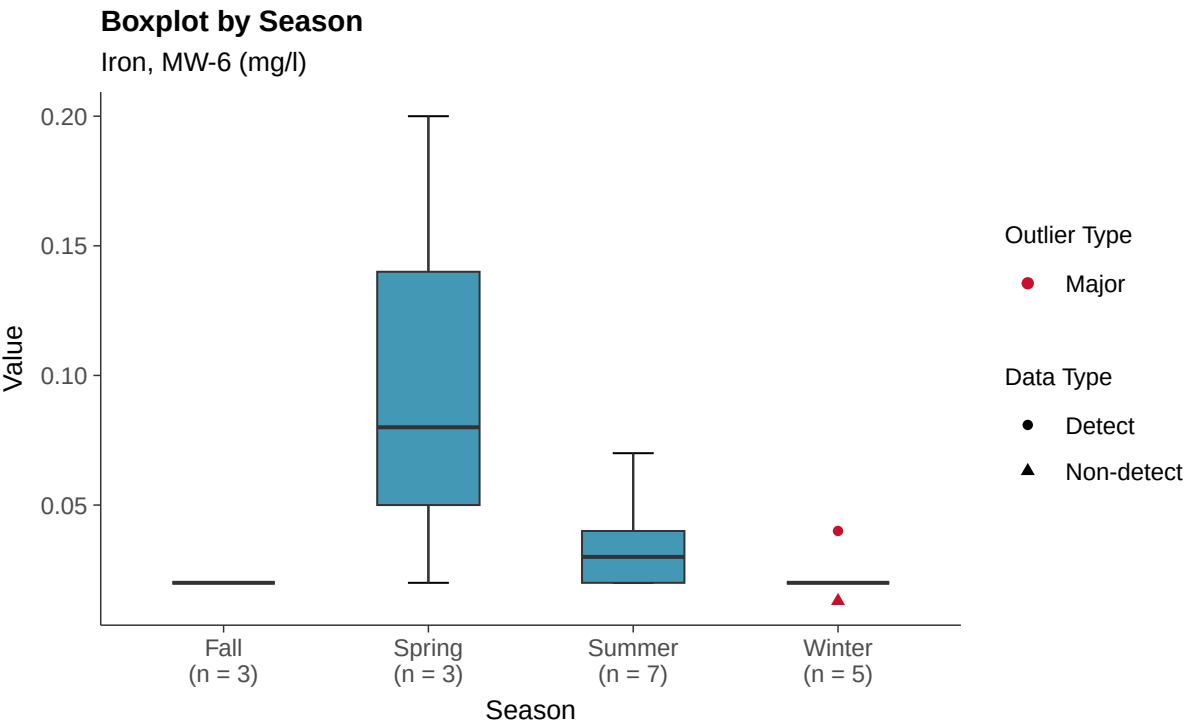
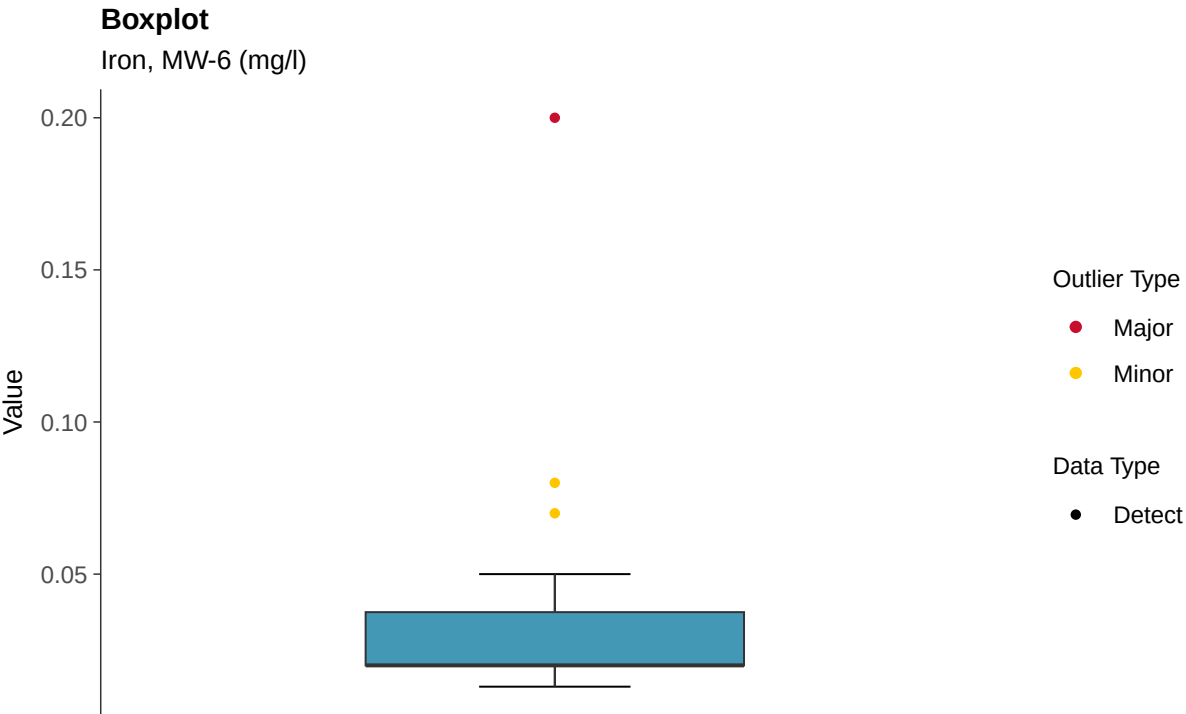


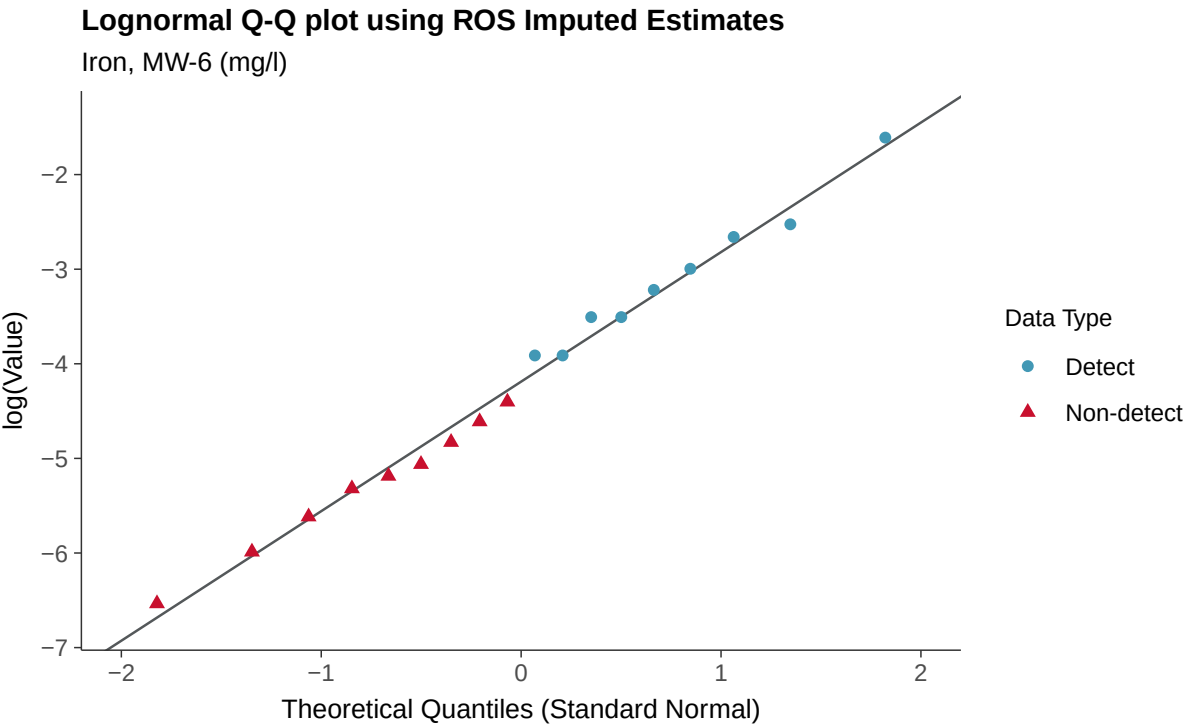
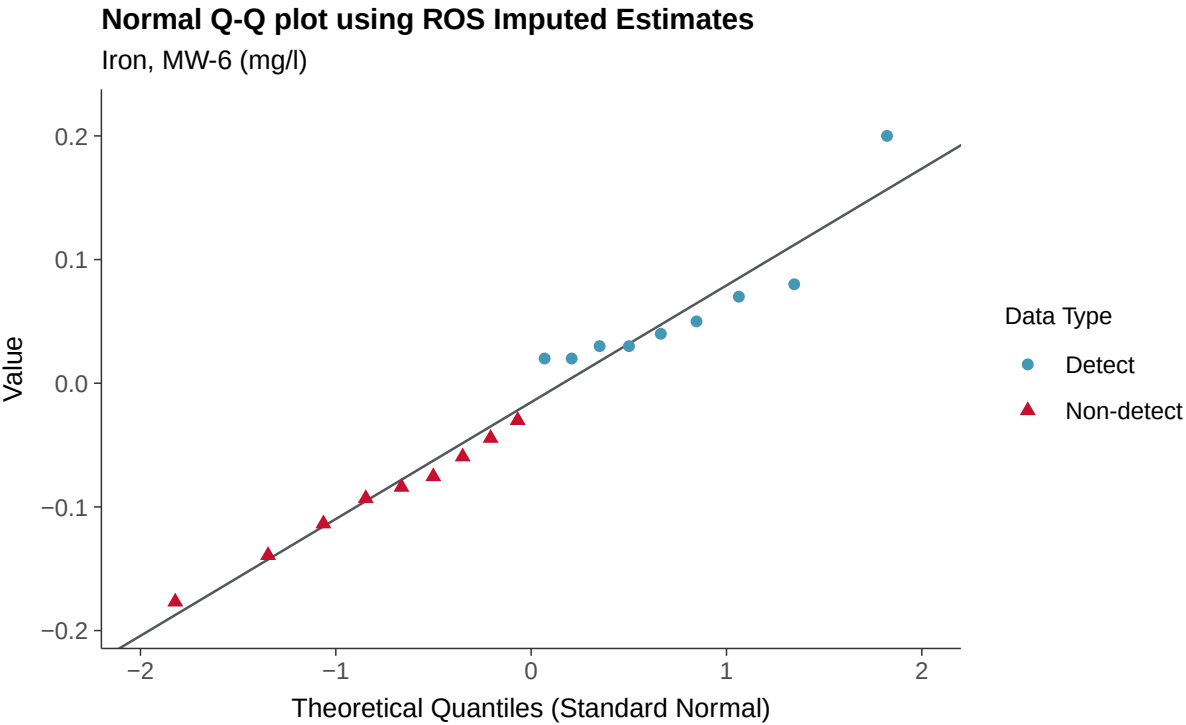


Part 115: Iron, MW-6

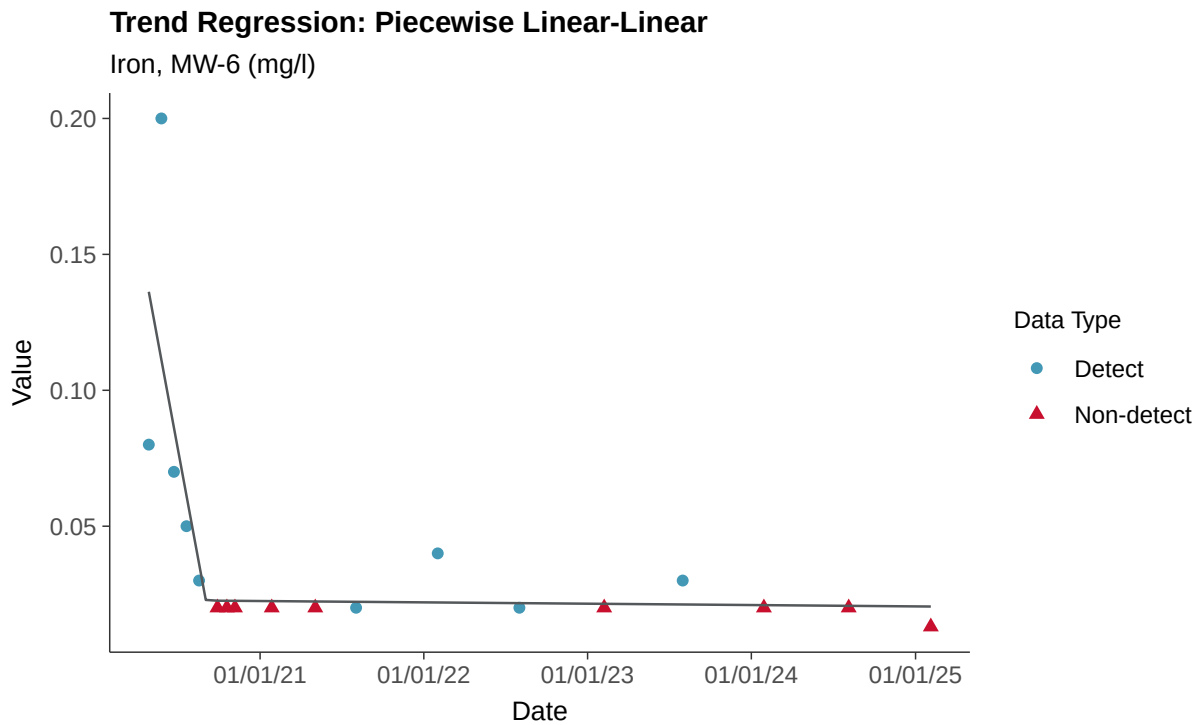
ID: 14_5_114

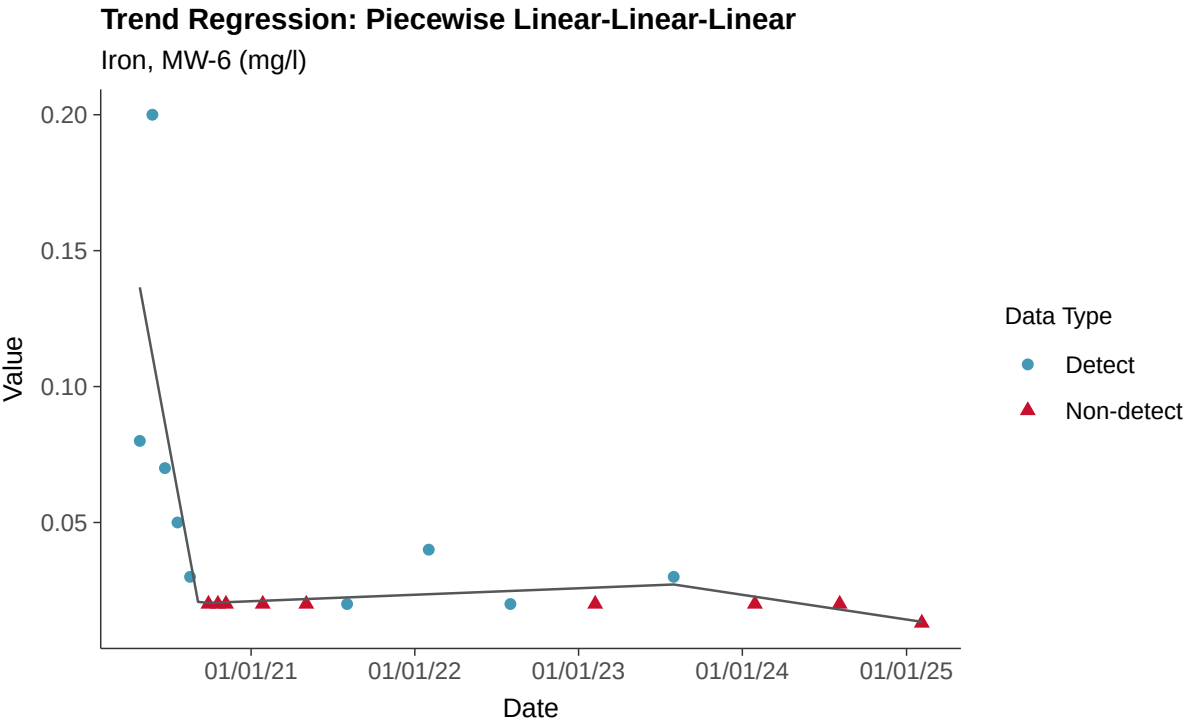






Iron, MW-6 (mg/l)

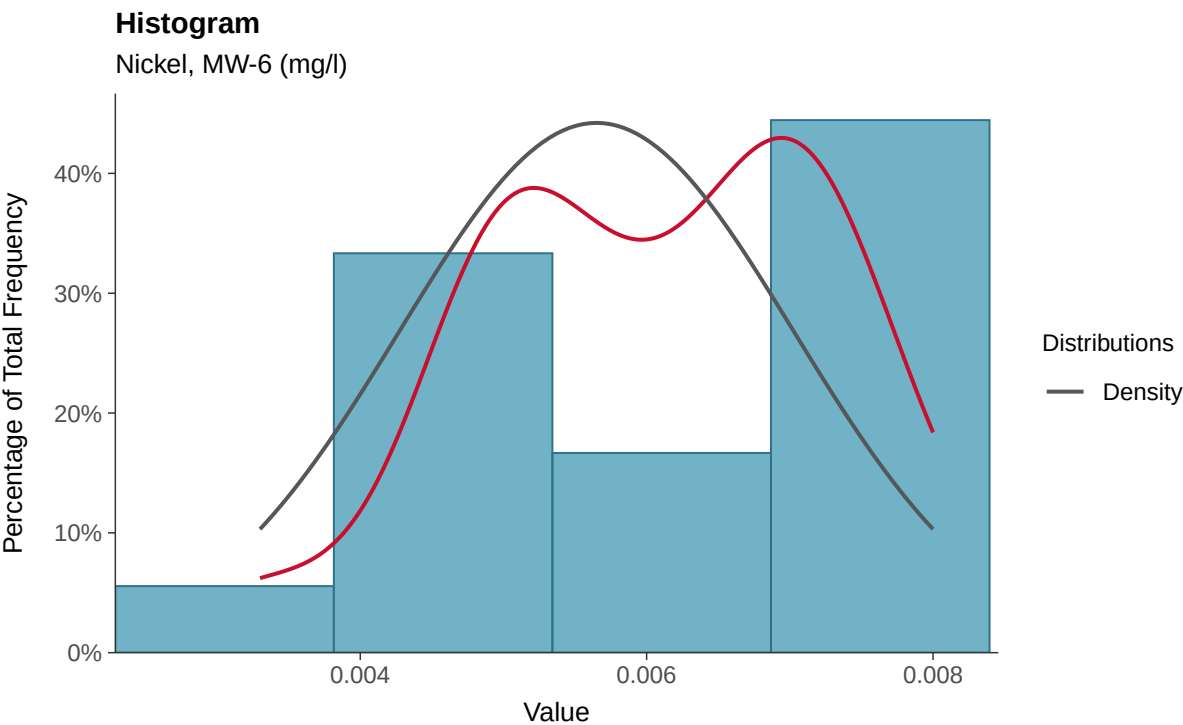
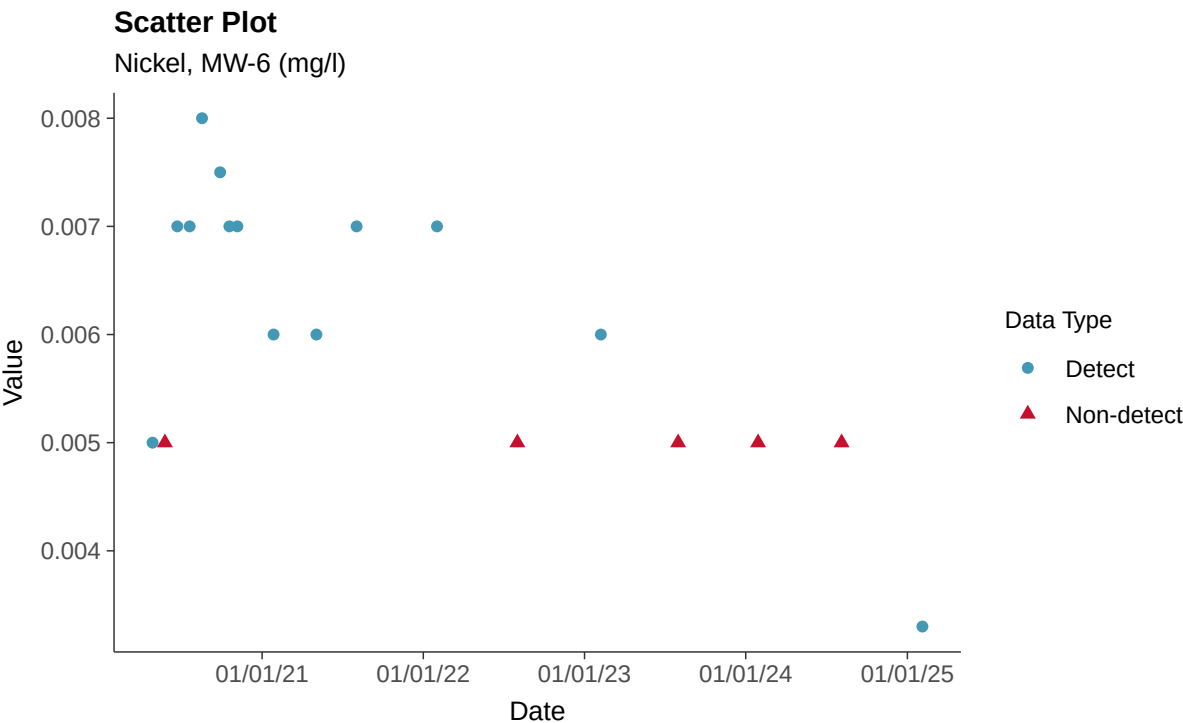


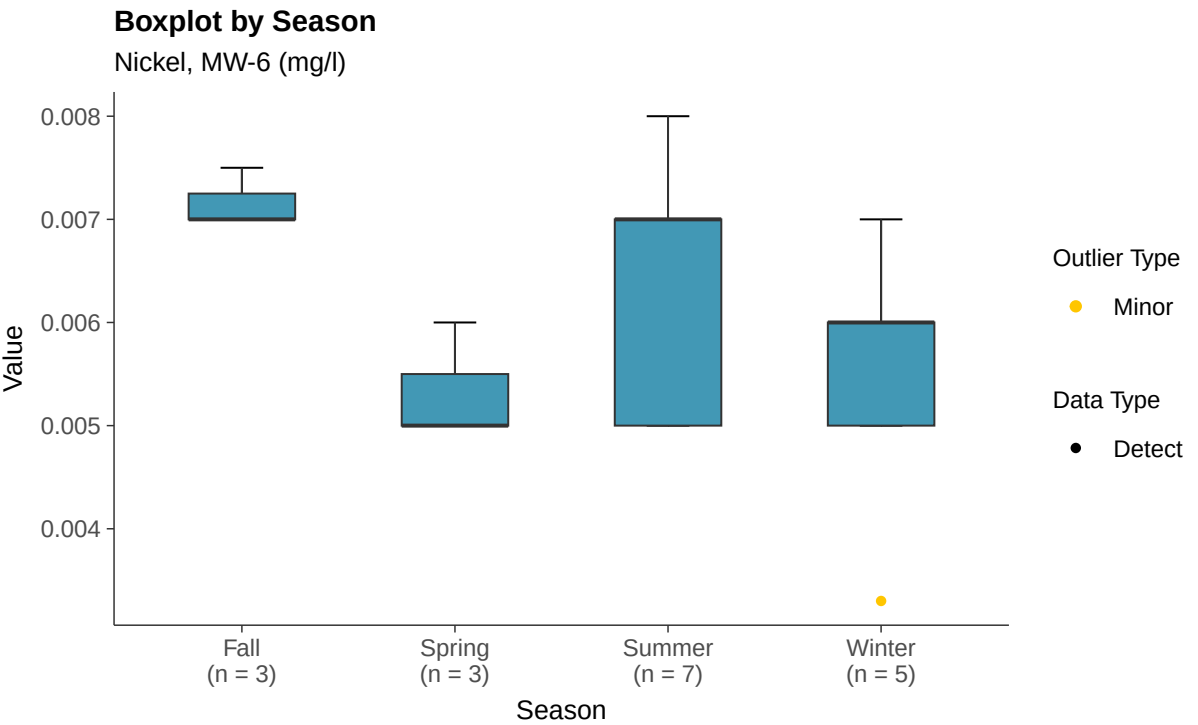
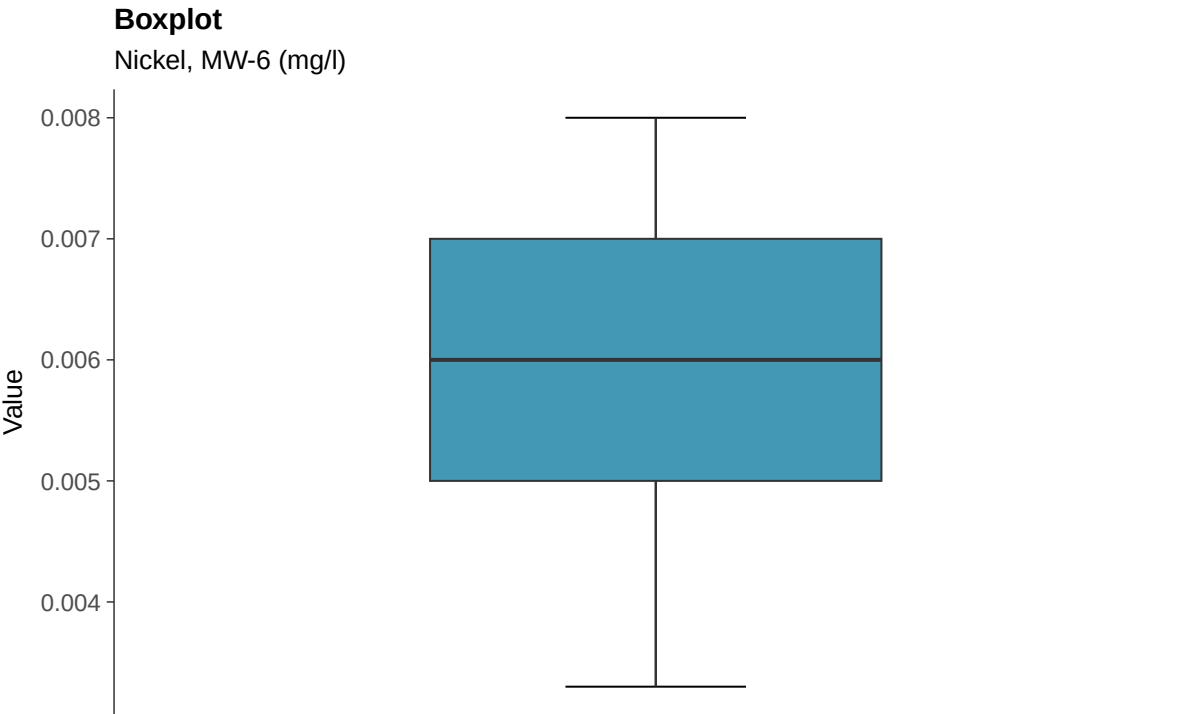


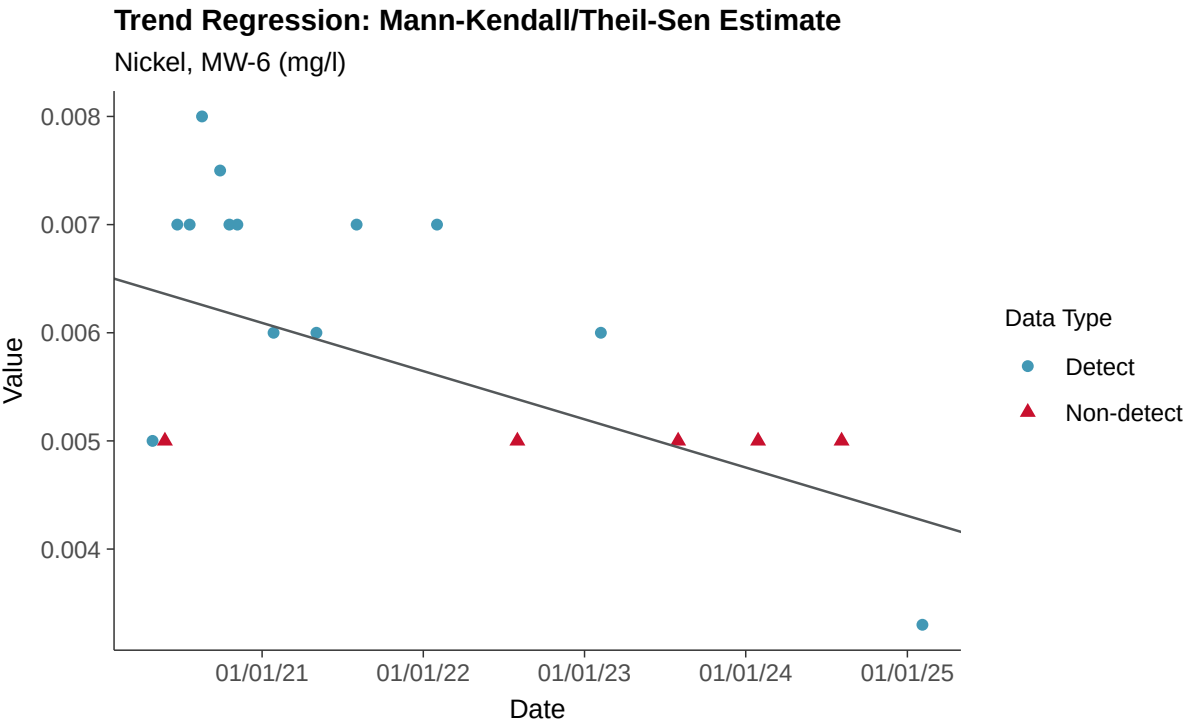
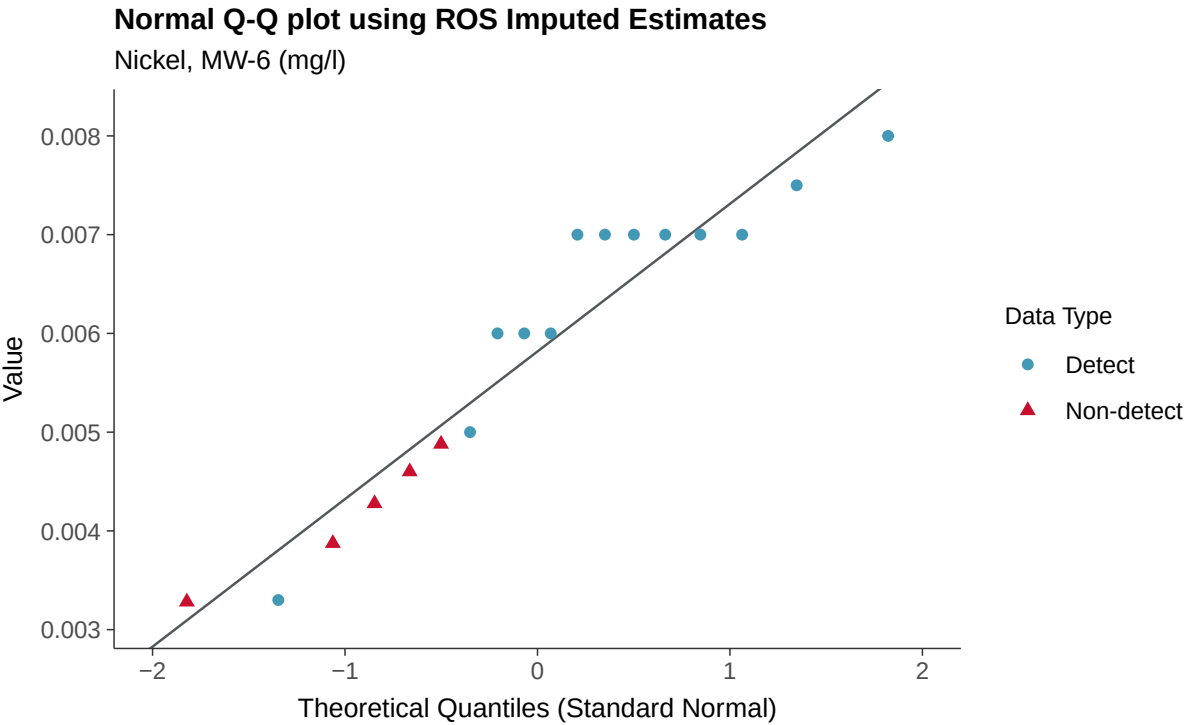


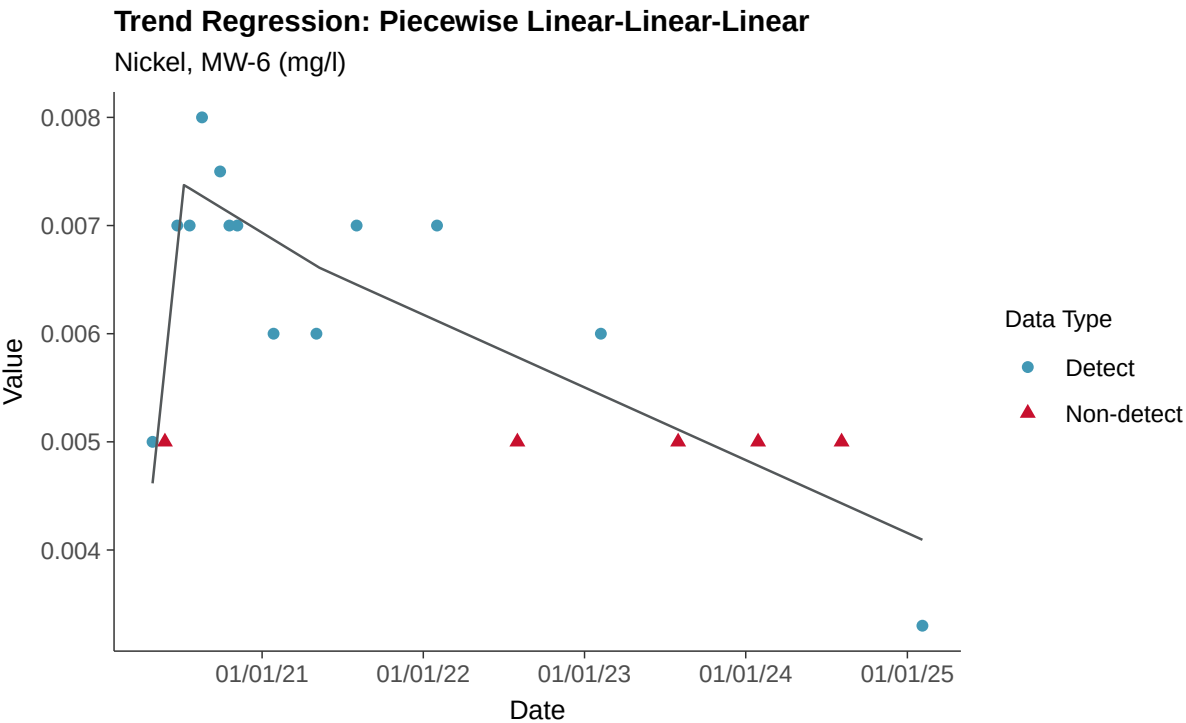
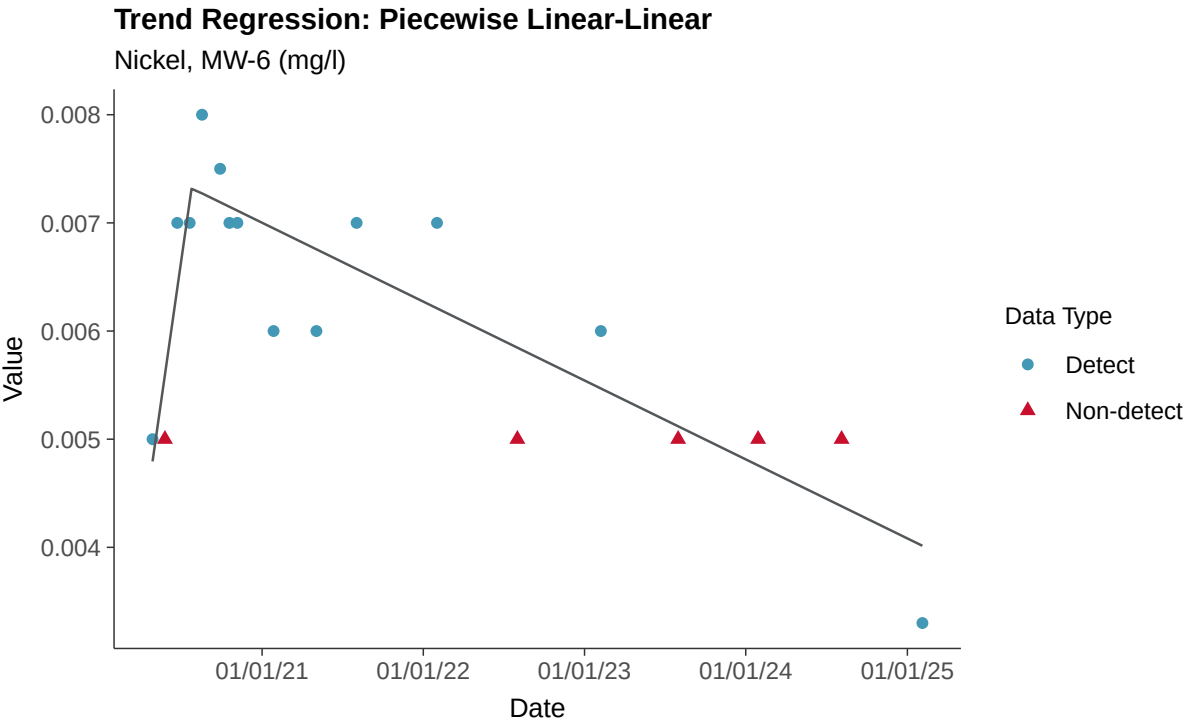
Part 115: Nickel, MW-6

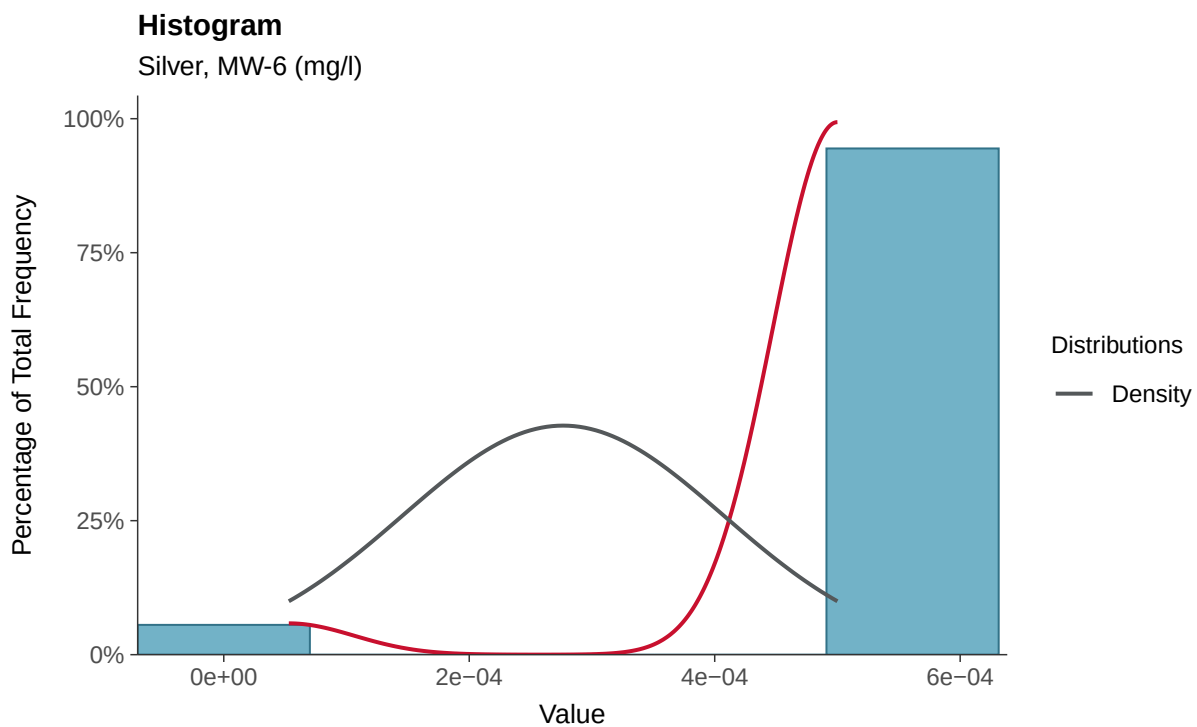
ID: 14_5_119

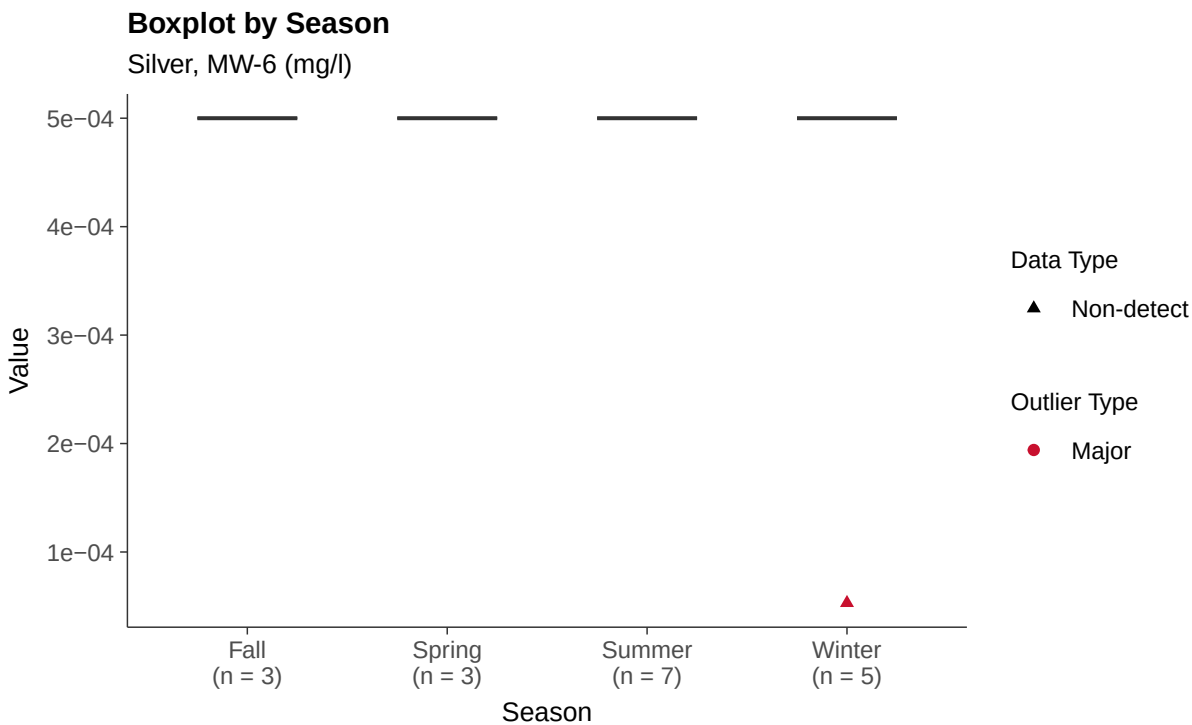
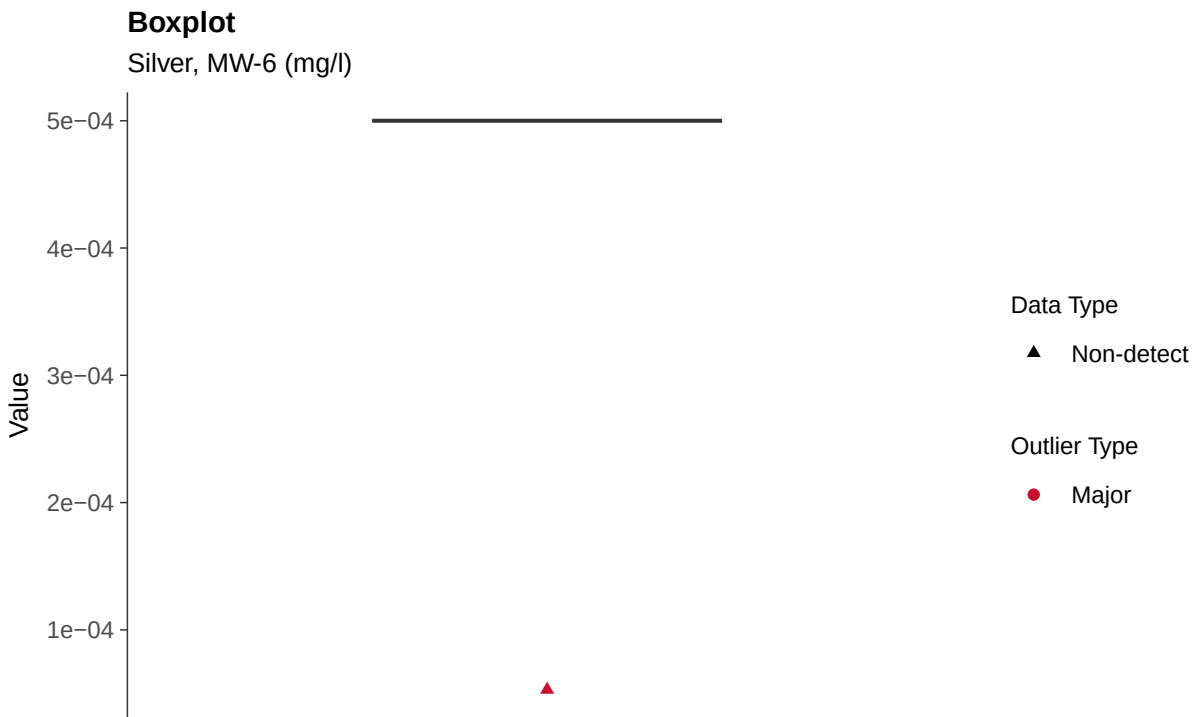








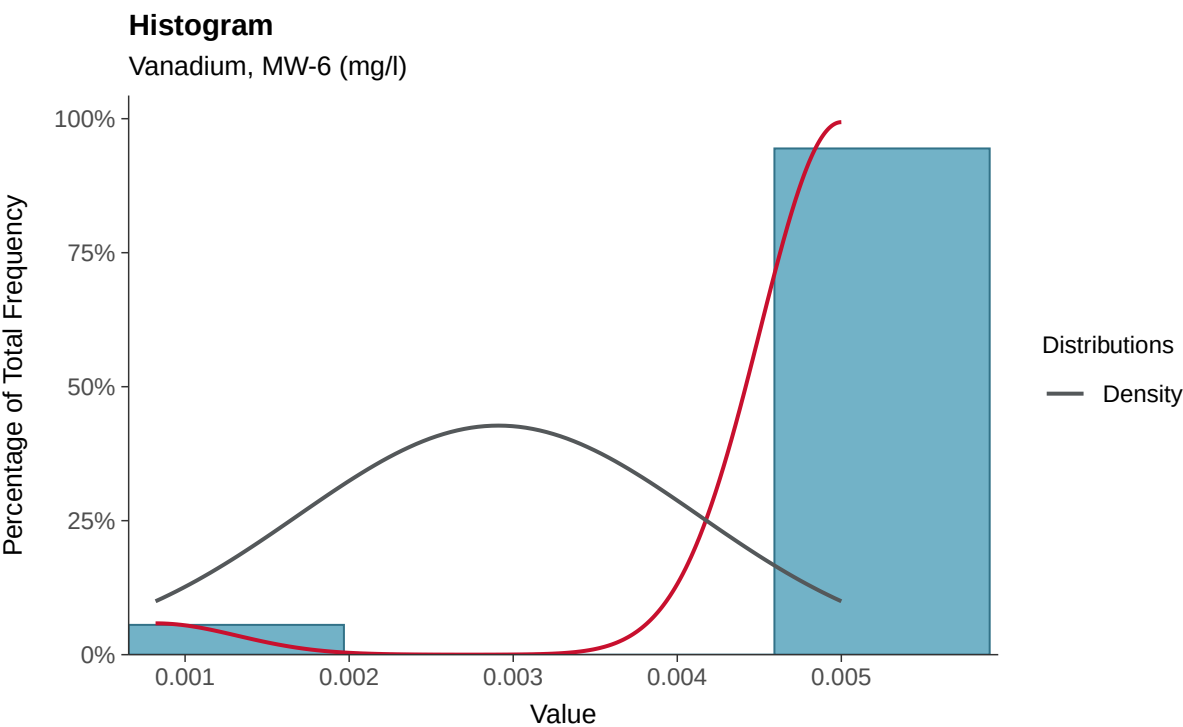
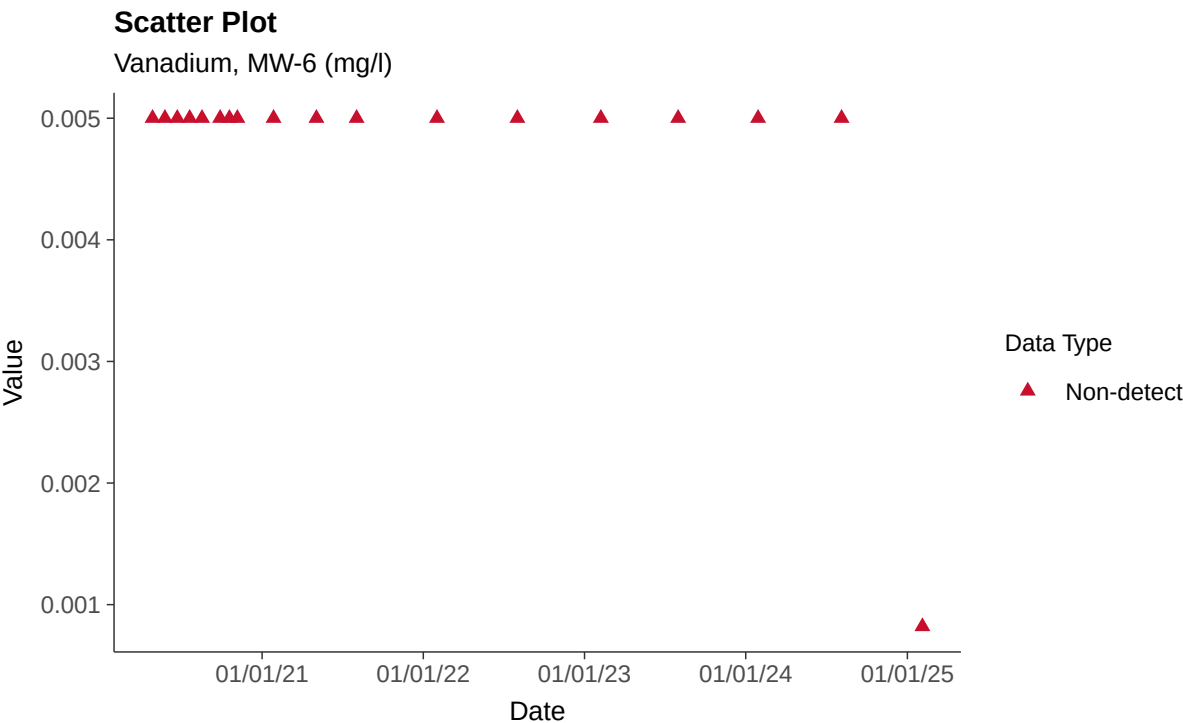


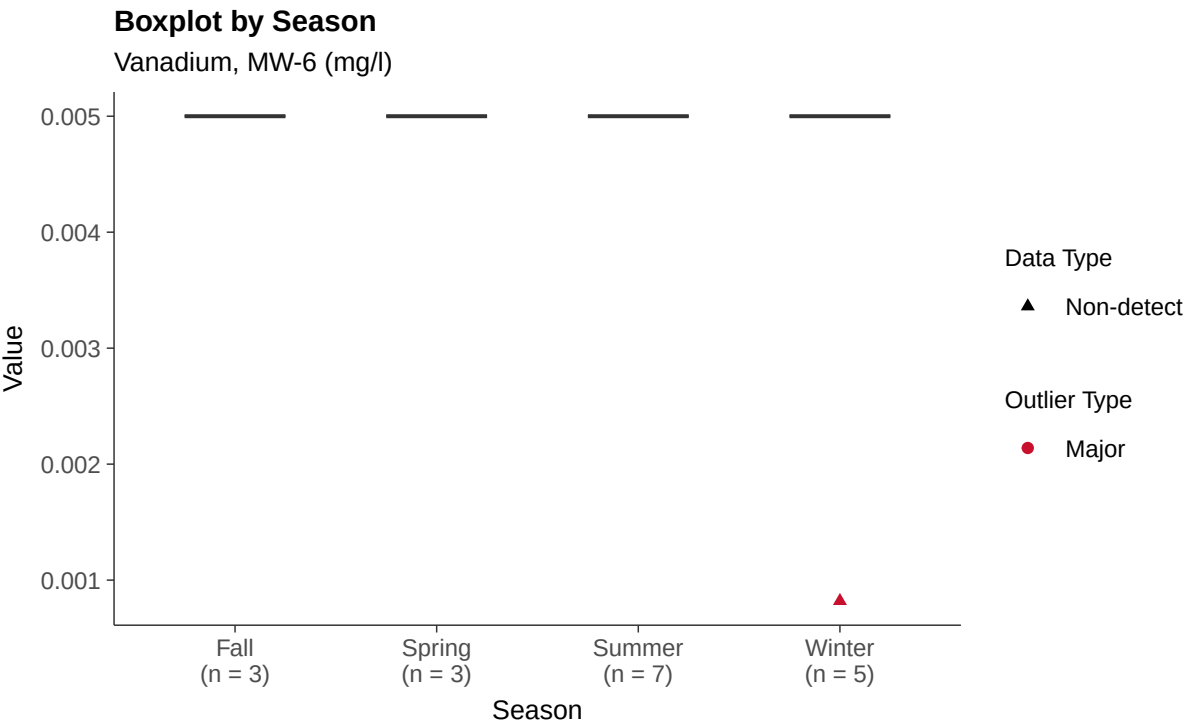
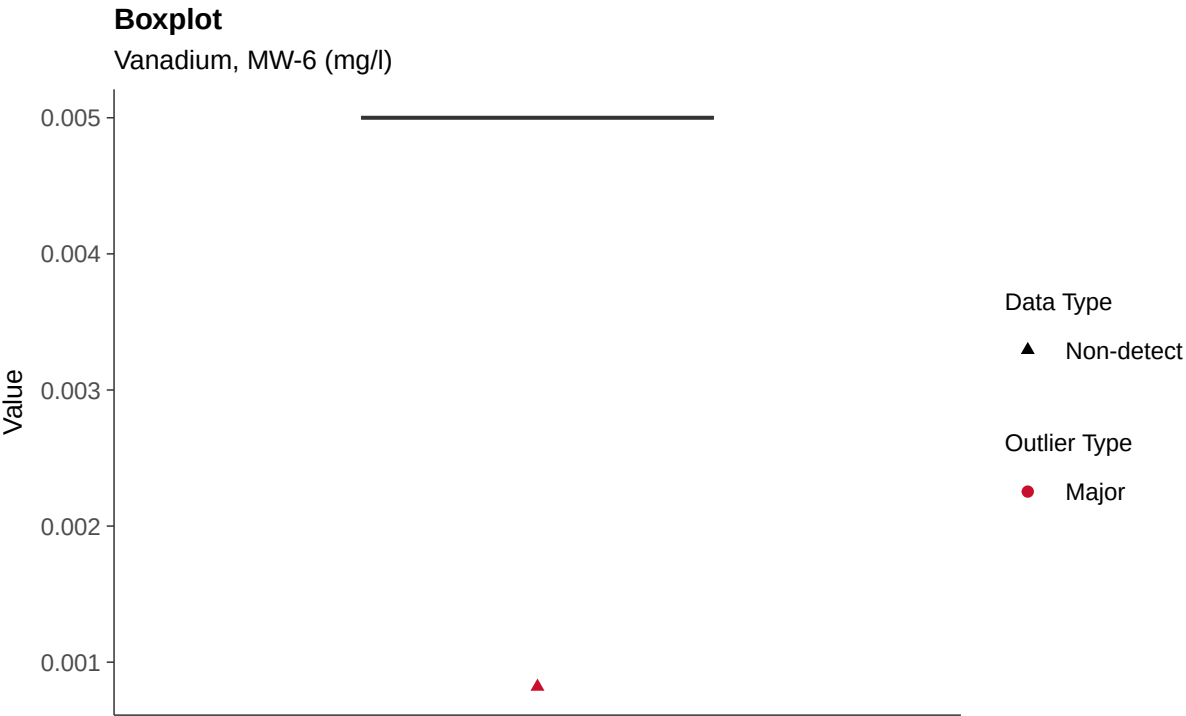


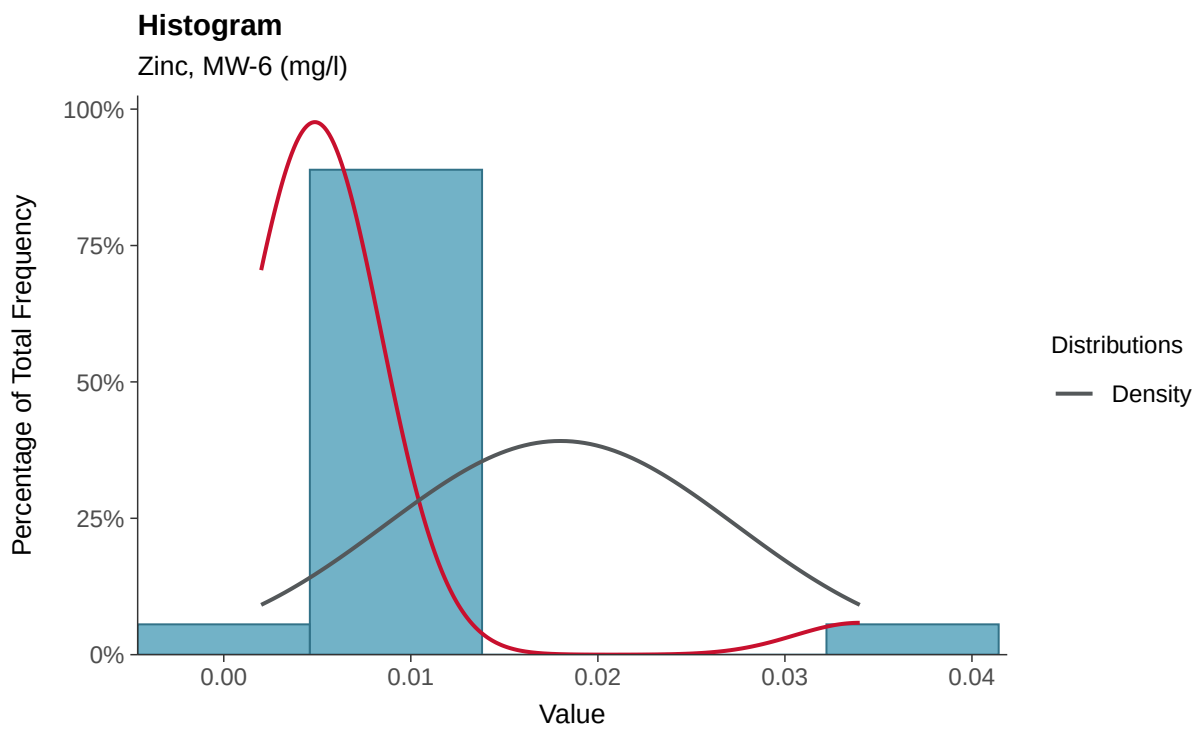


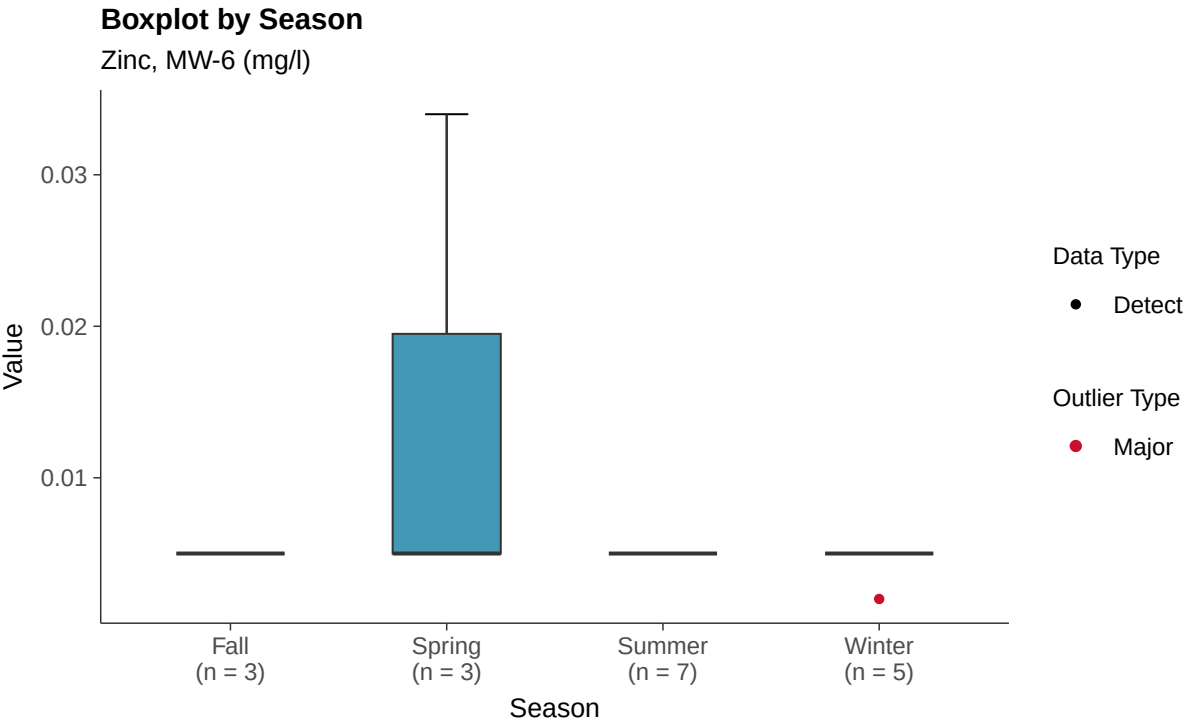
Part 115: Vanadium, MW-6

ID: 14_5_128

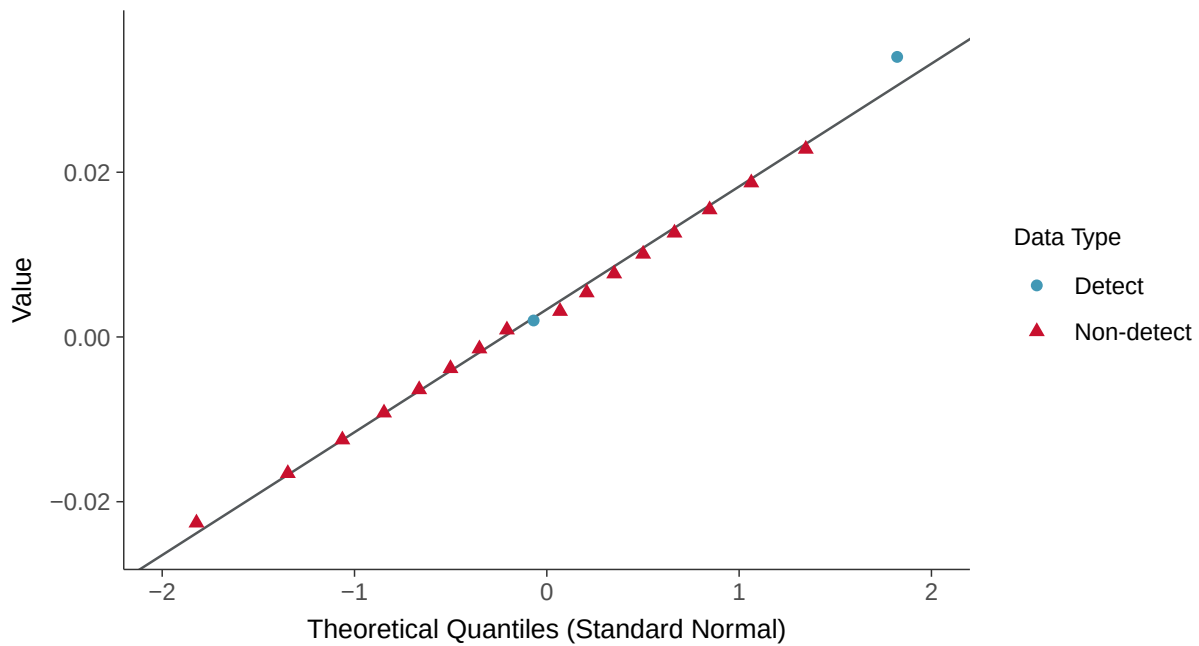




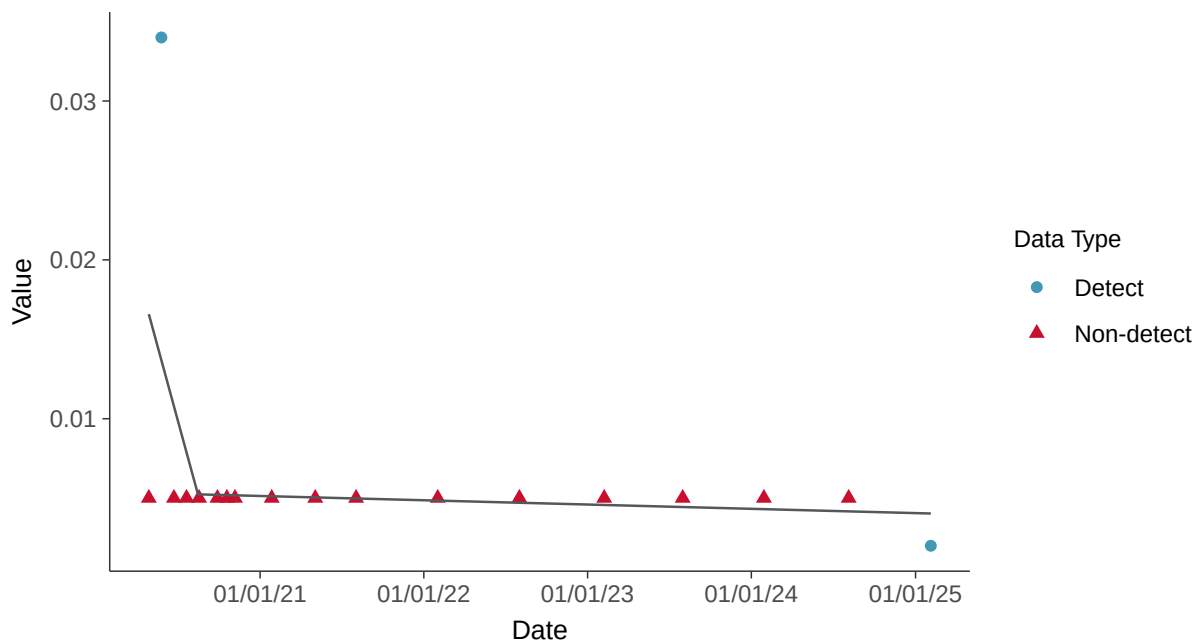


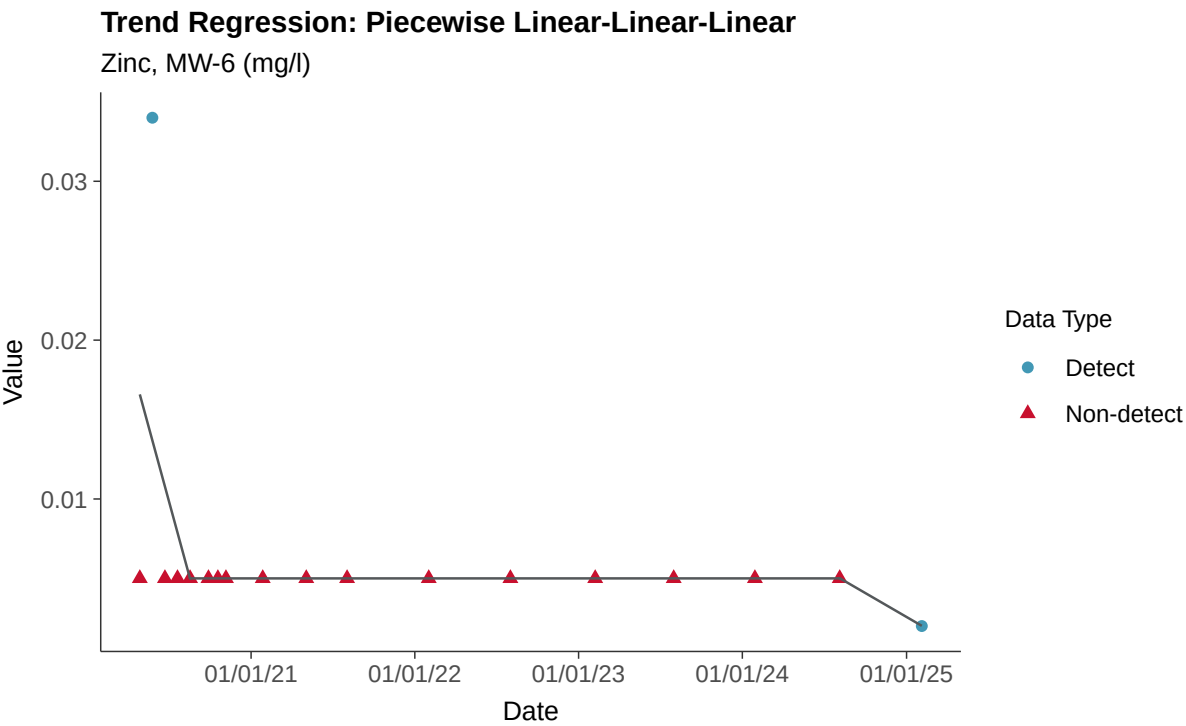


Zinc, MW-6 (mg/l)



Zinc, MW-6 (mg/l)

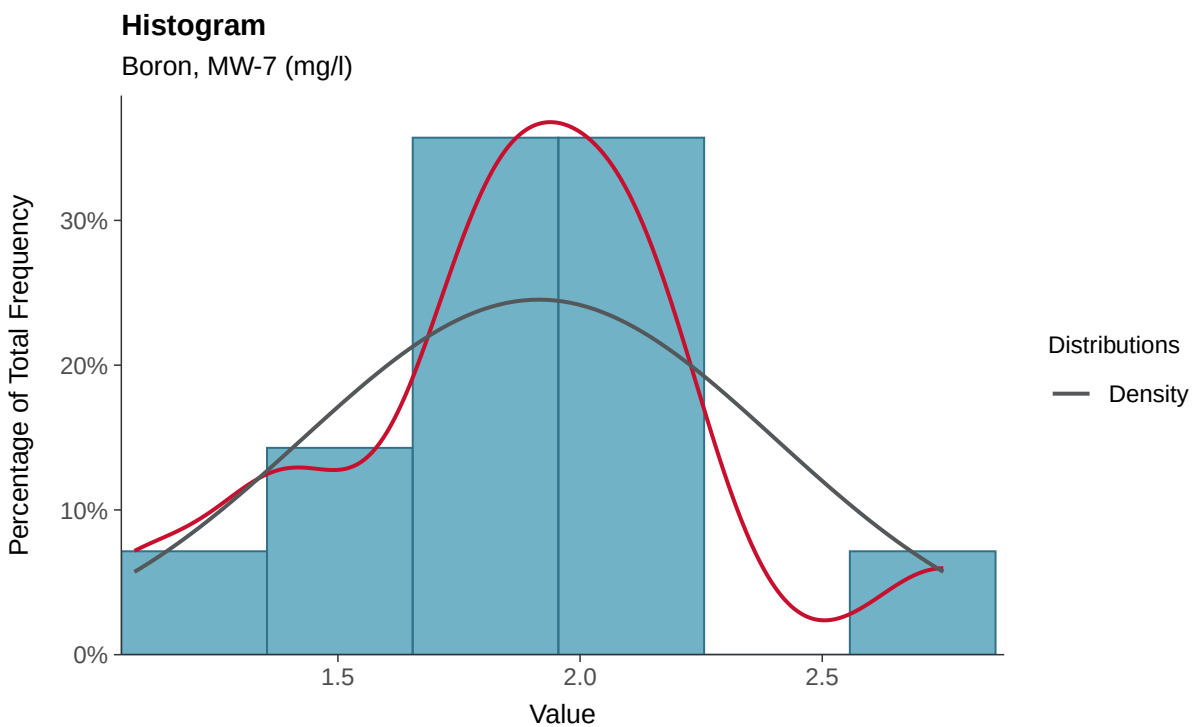
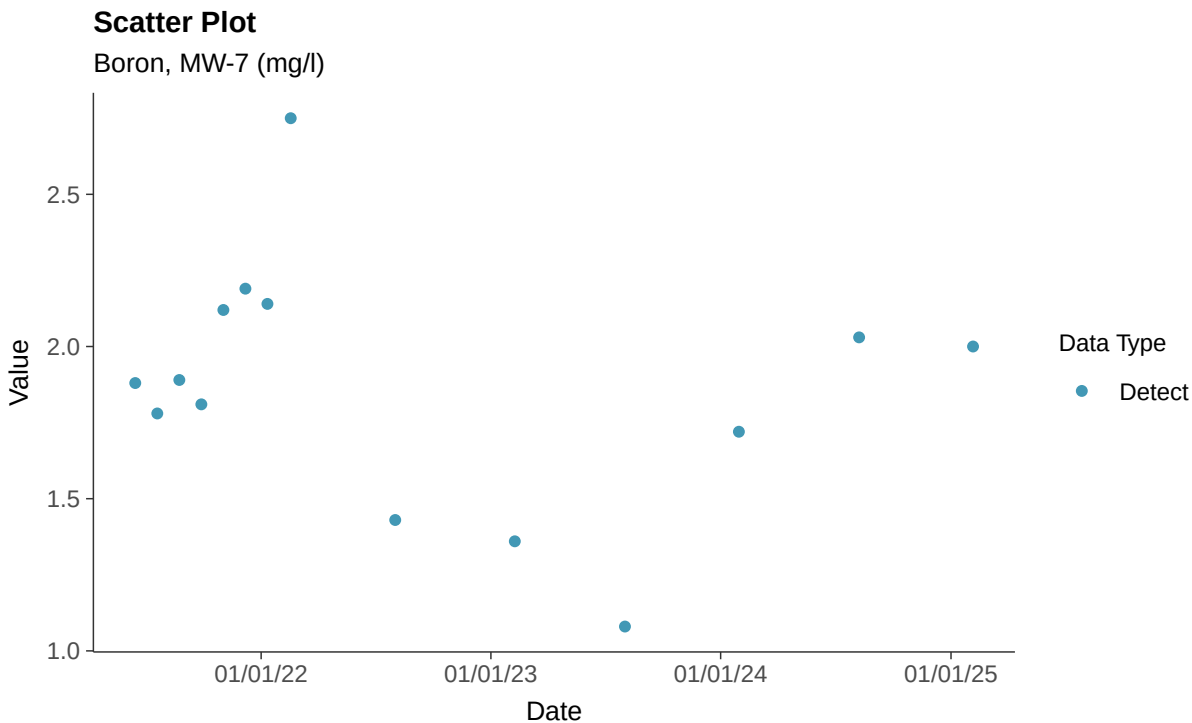


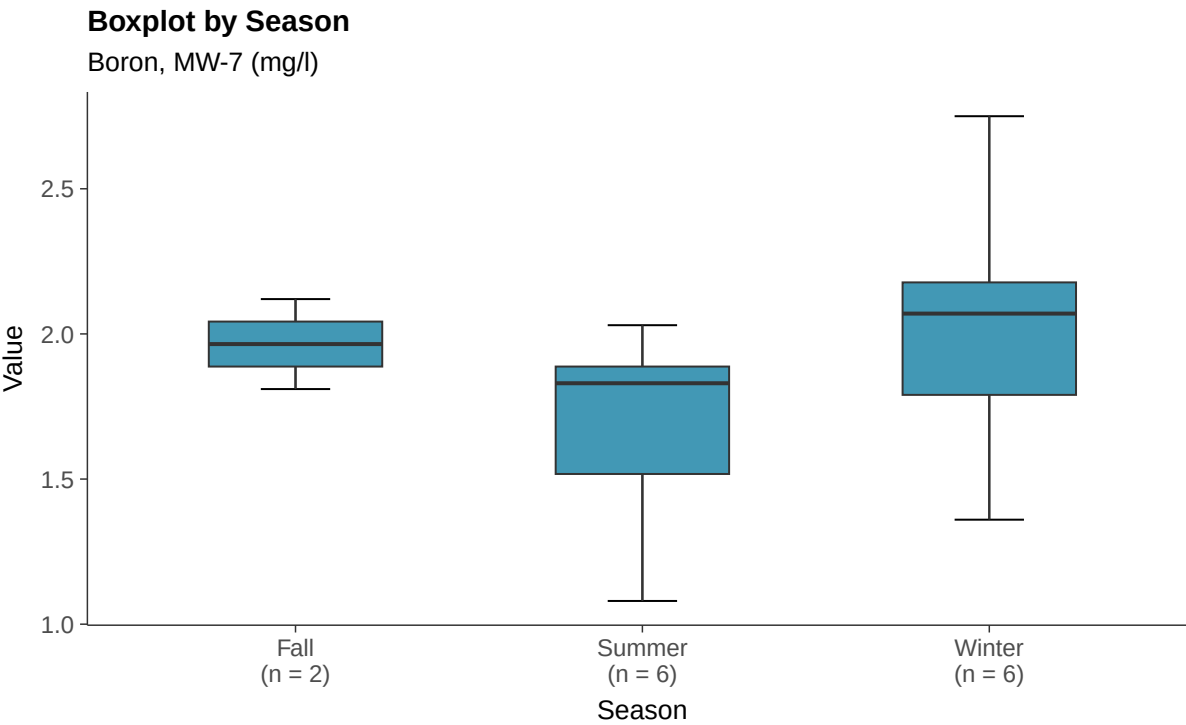
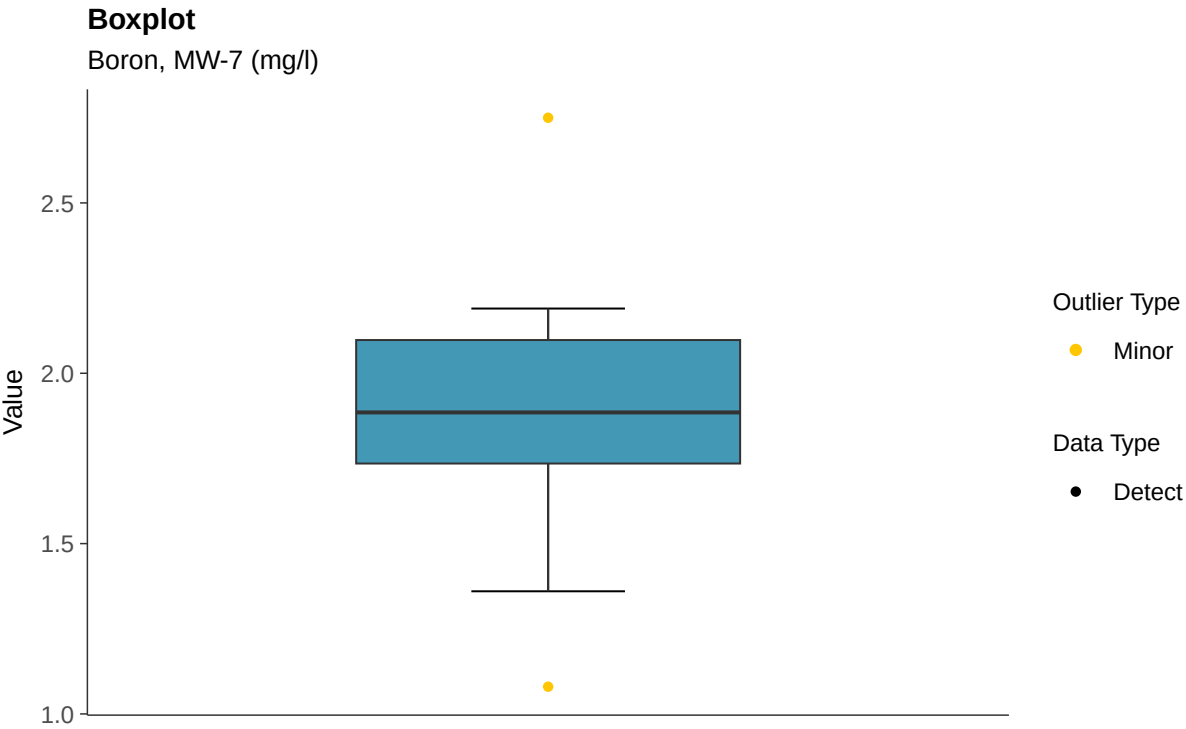


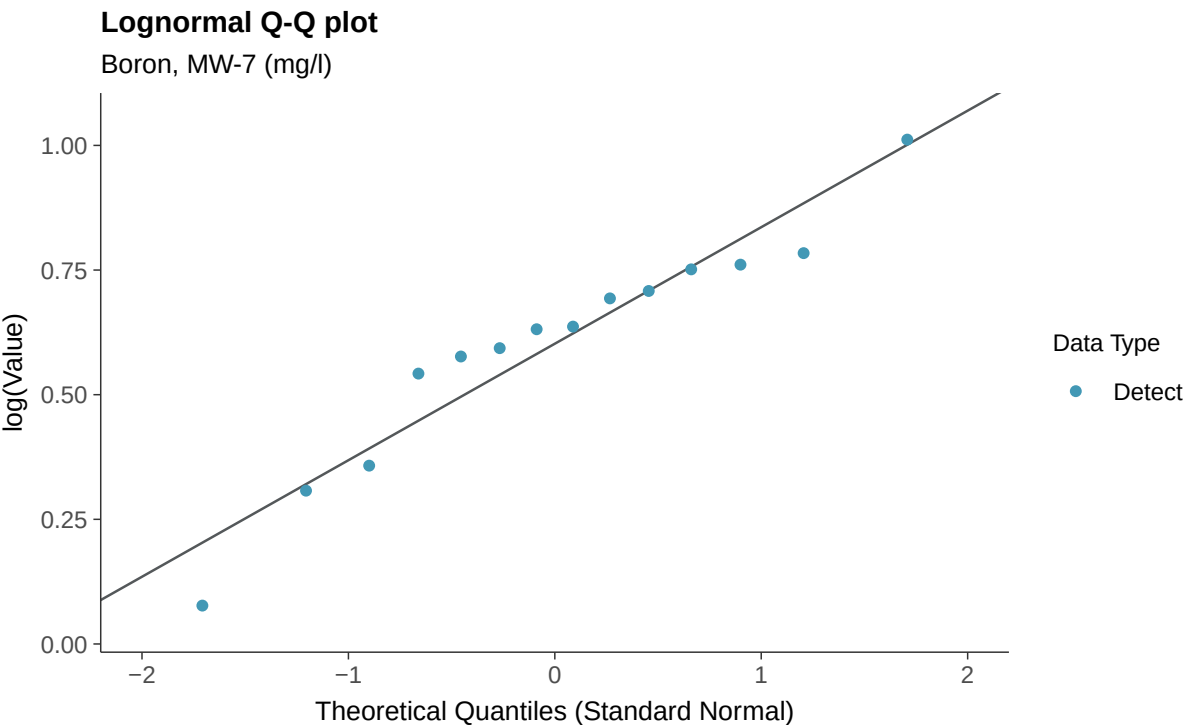
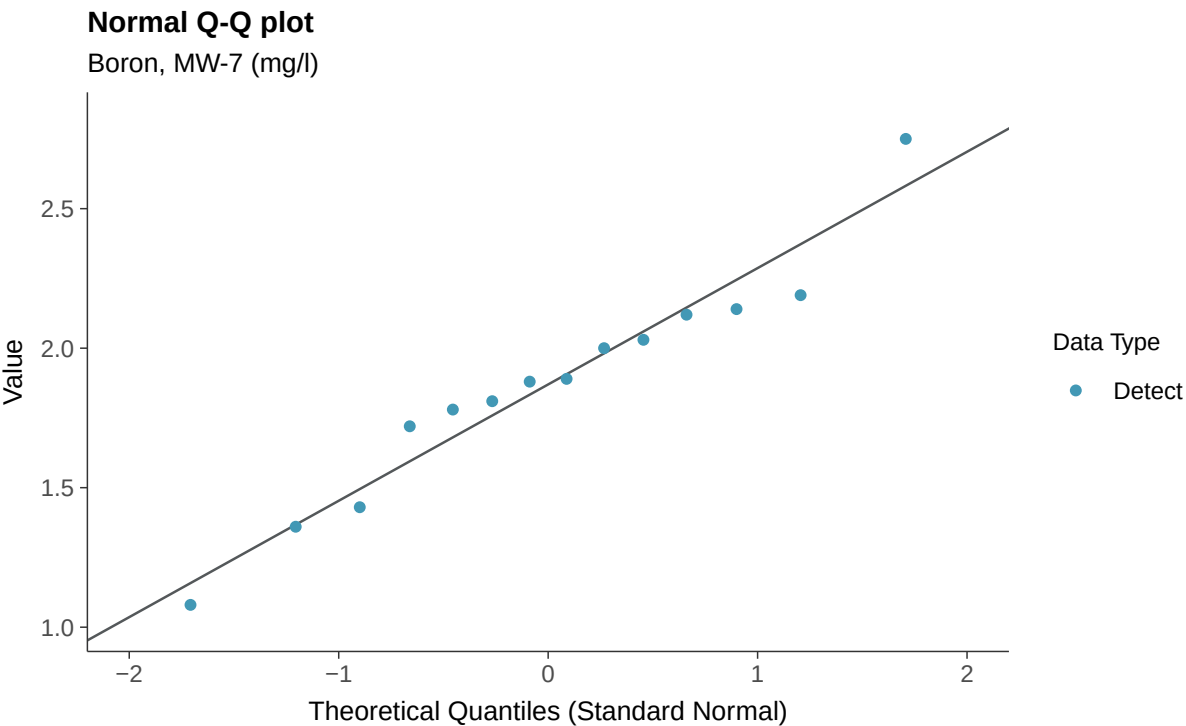


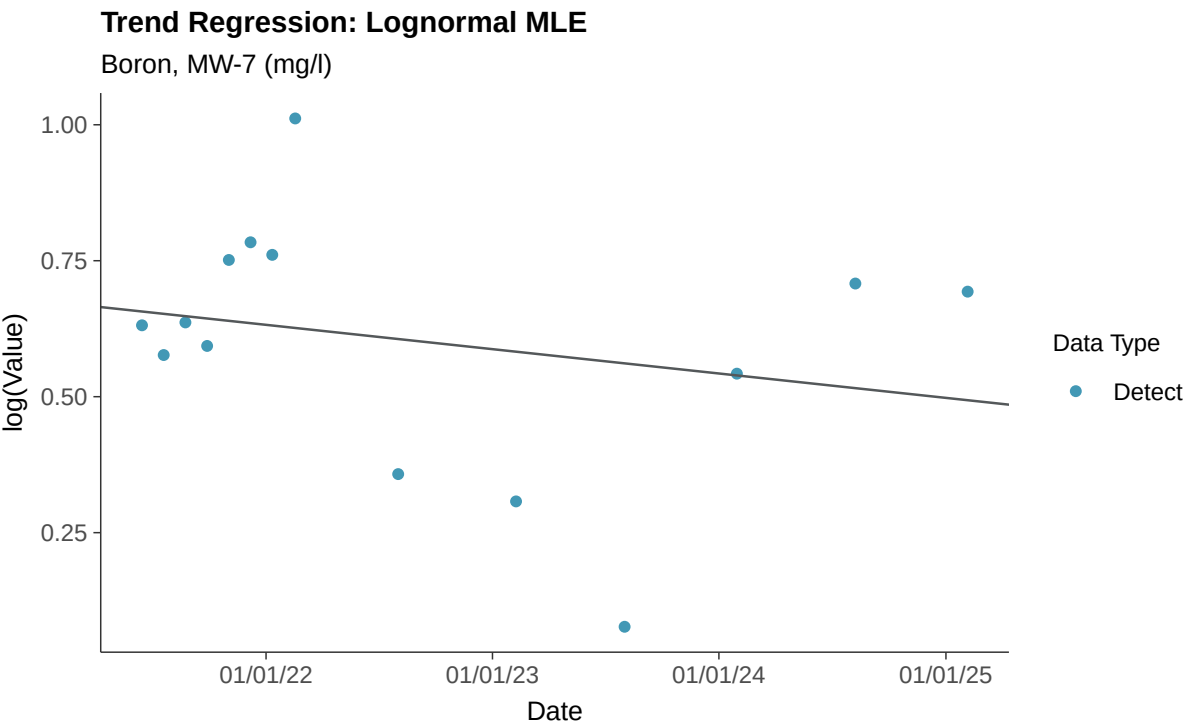
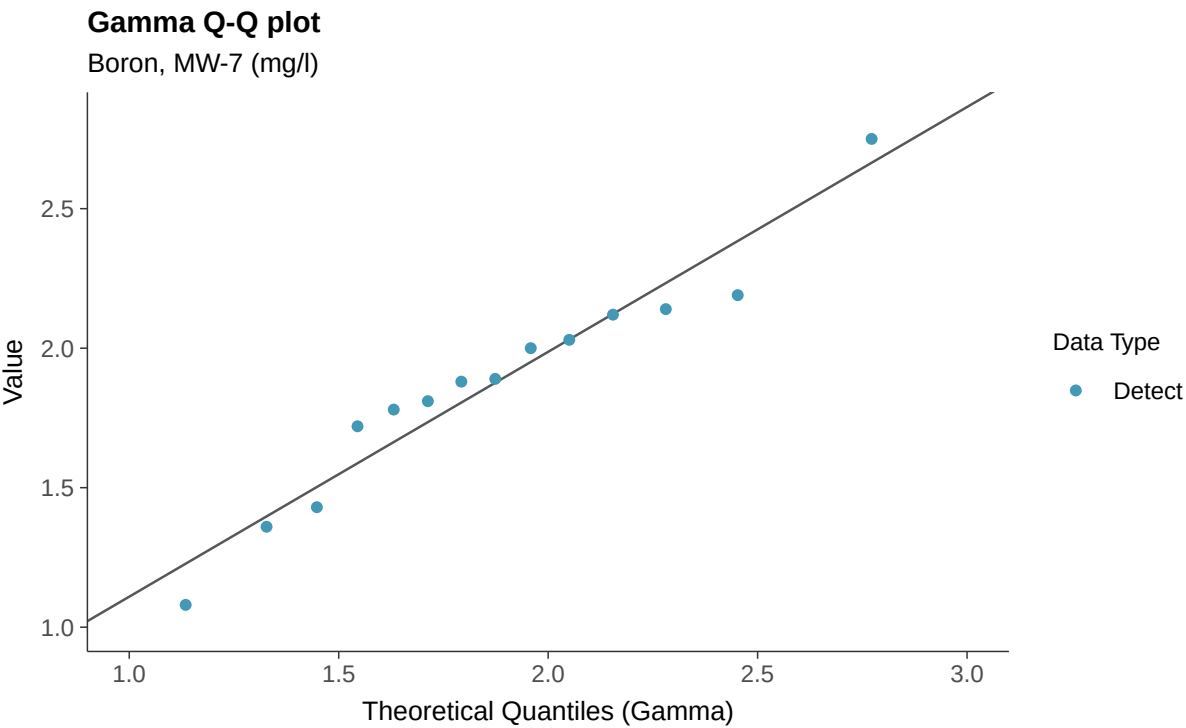
Appendix III: Boron, MW-7

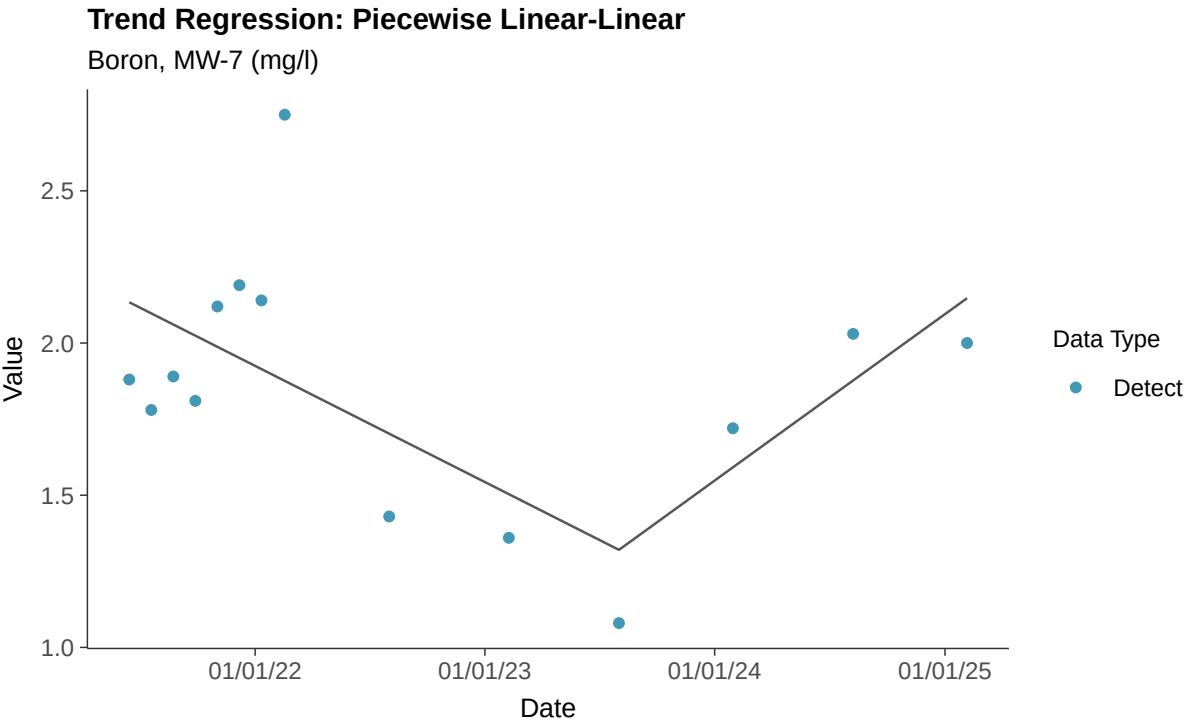
ID: 15_2_105







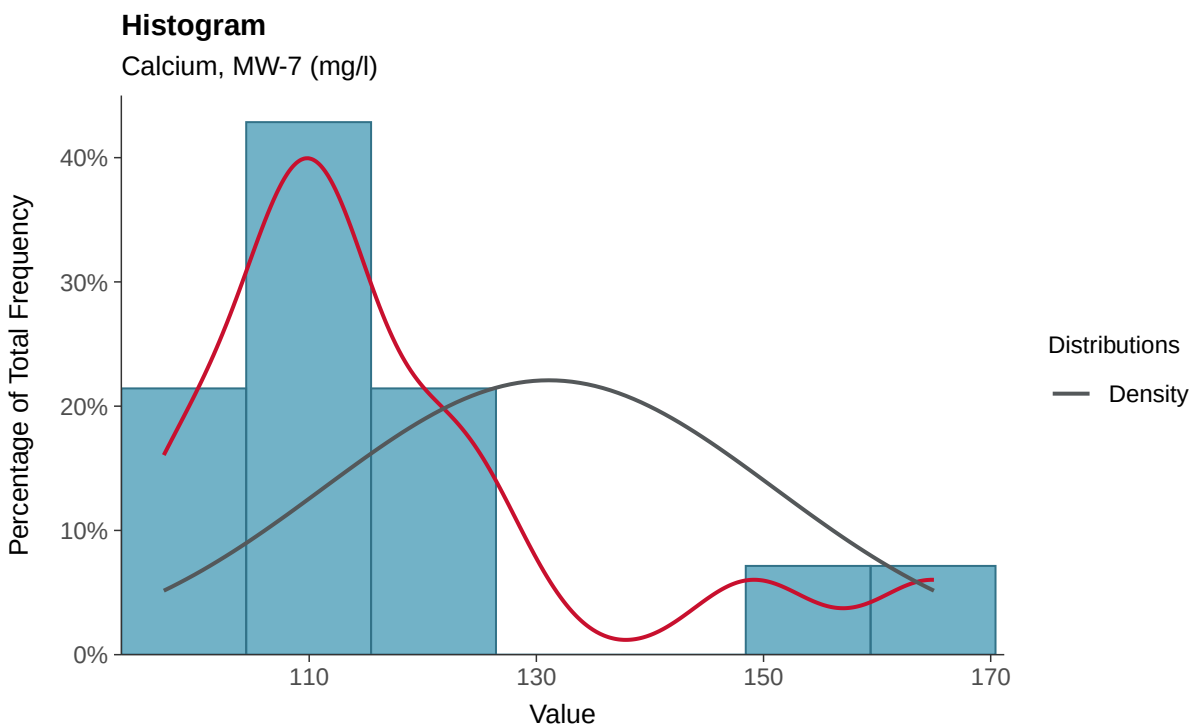
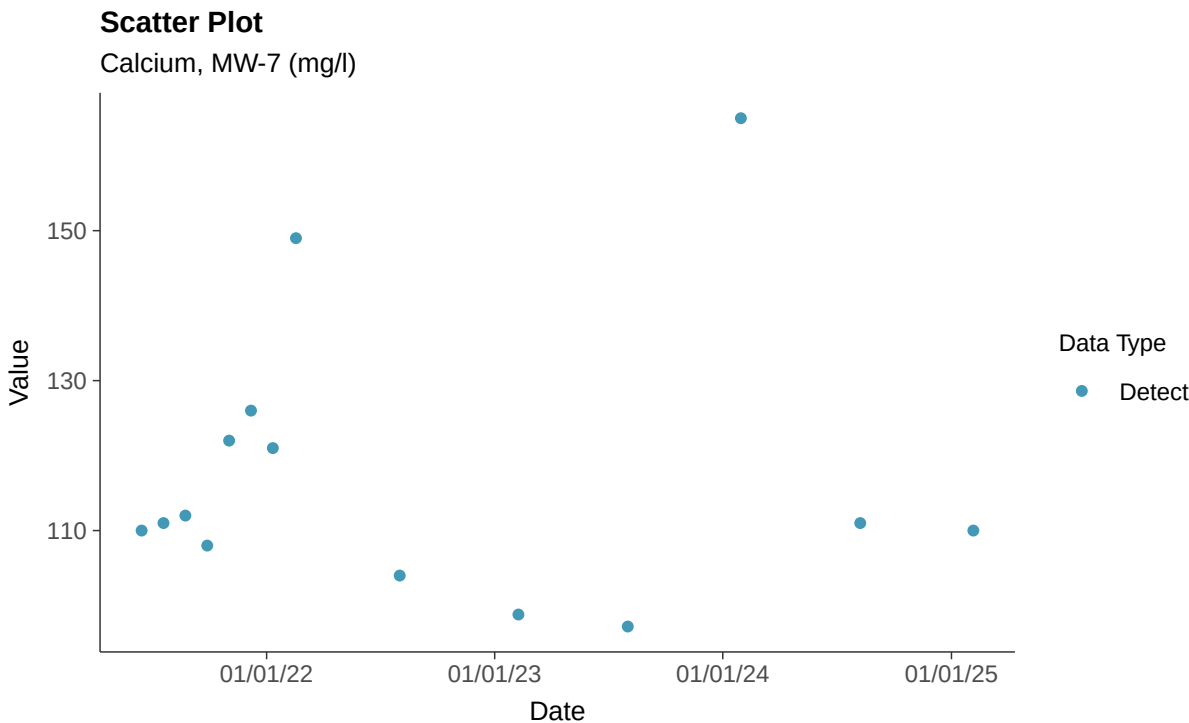


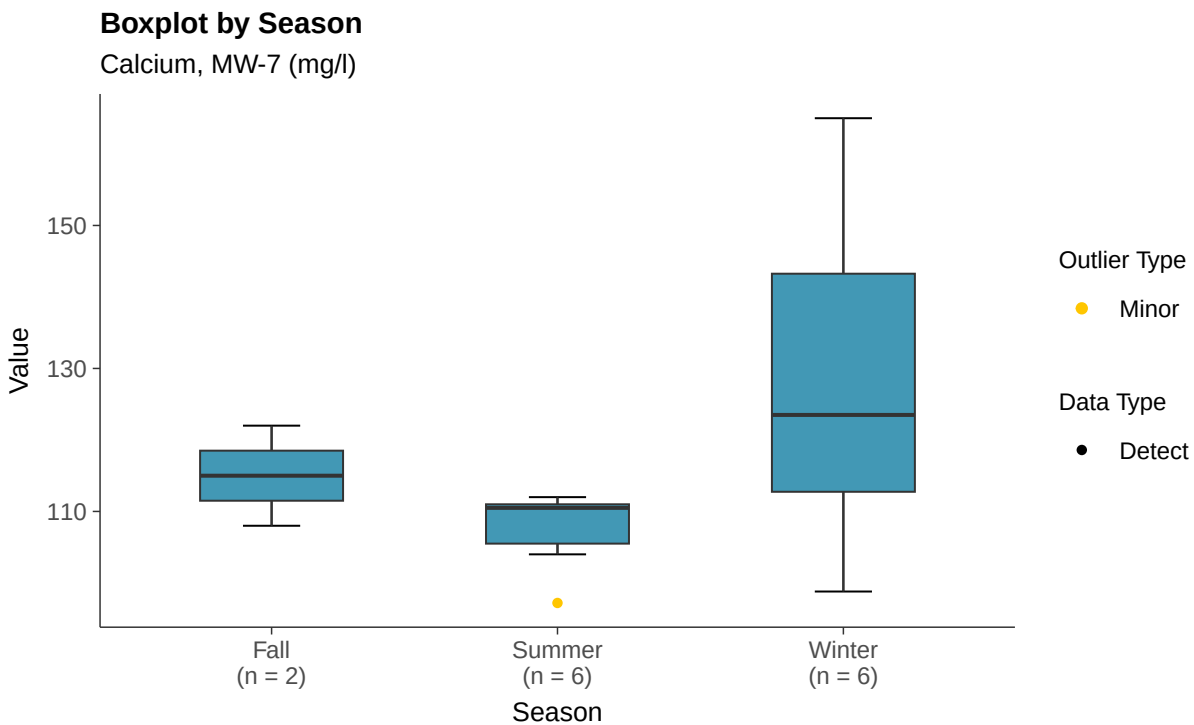
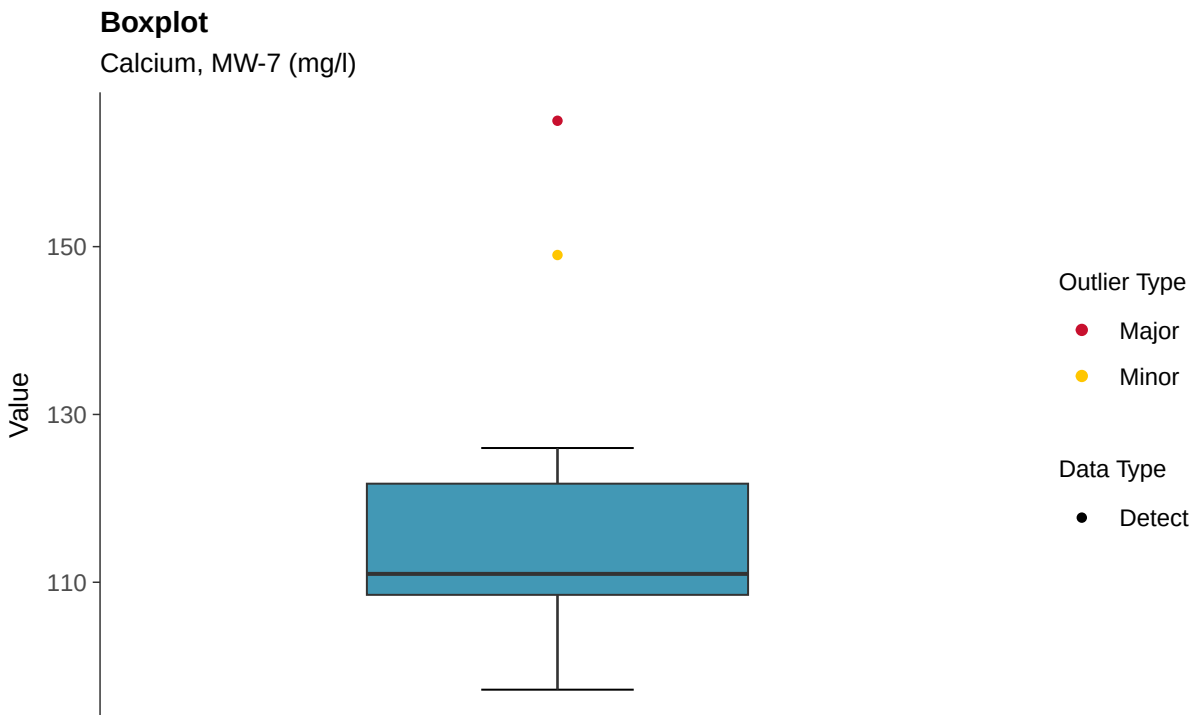


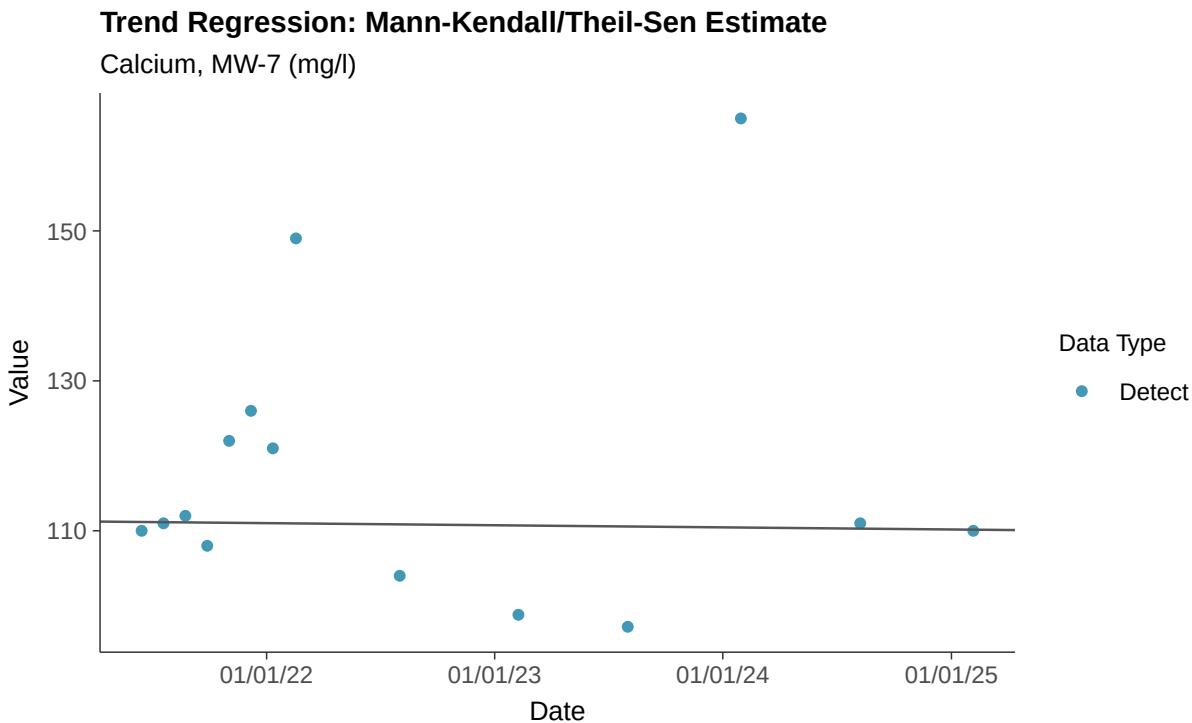
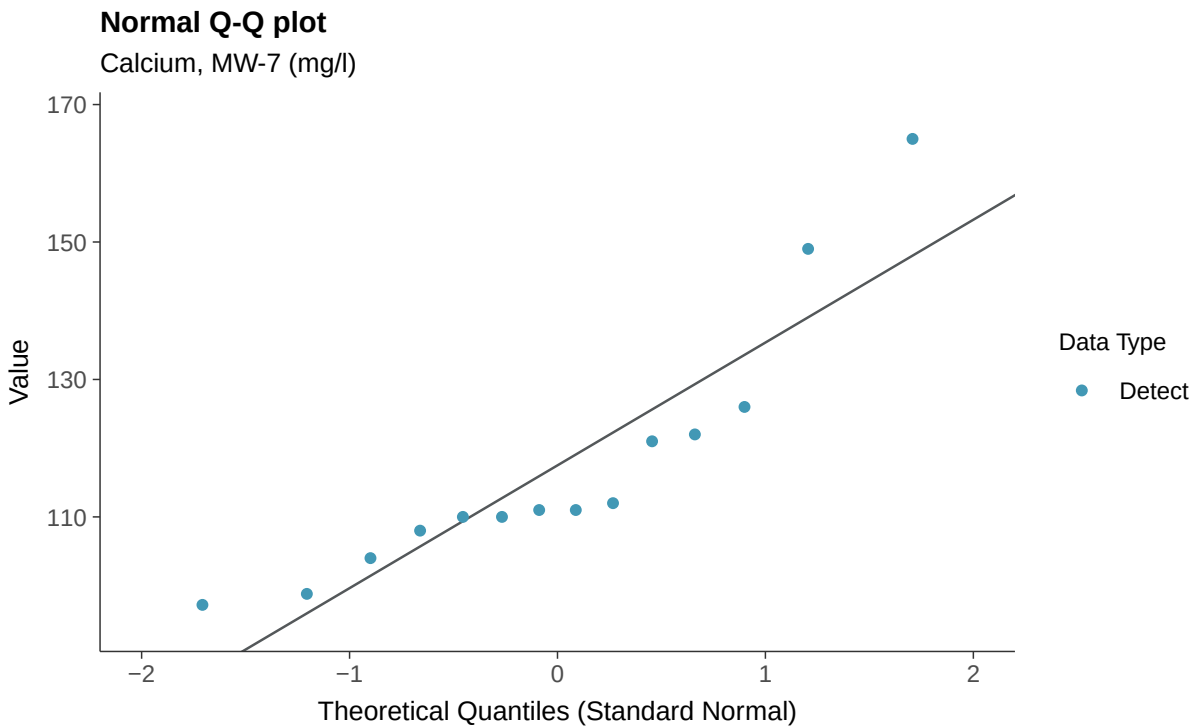


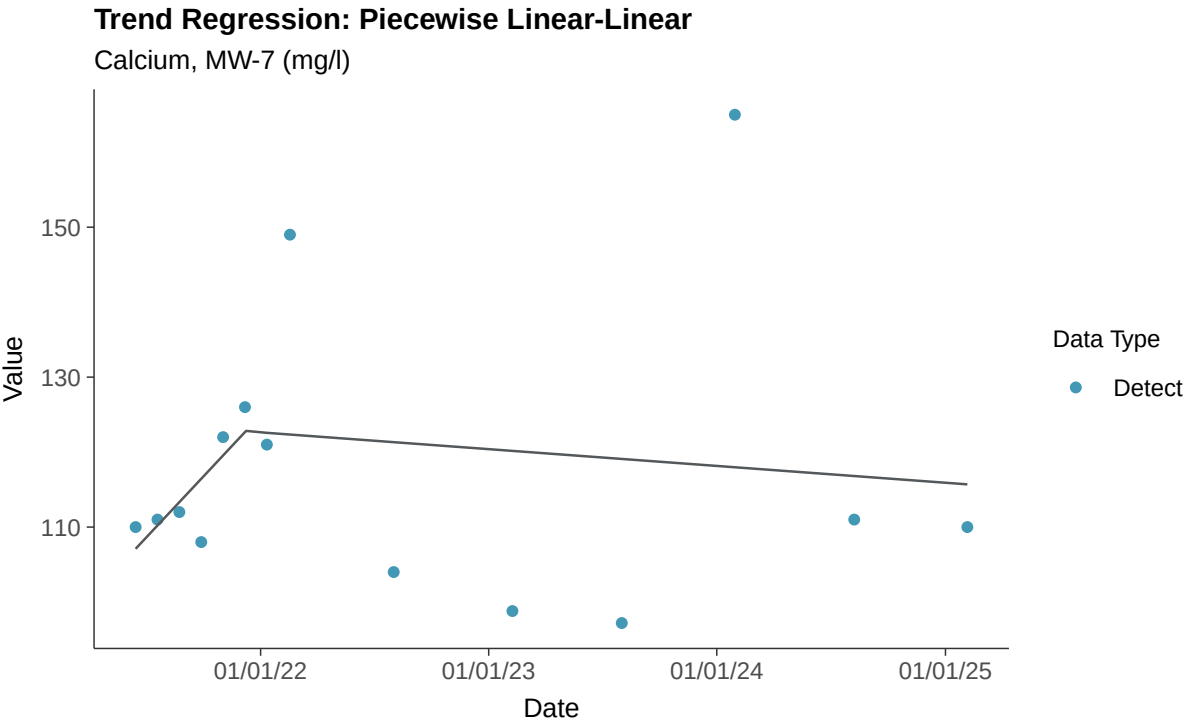
Appendix III: Calcium, MW-7

ID: 15_2_107





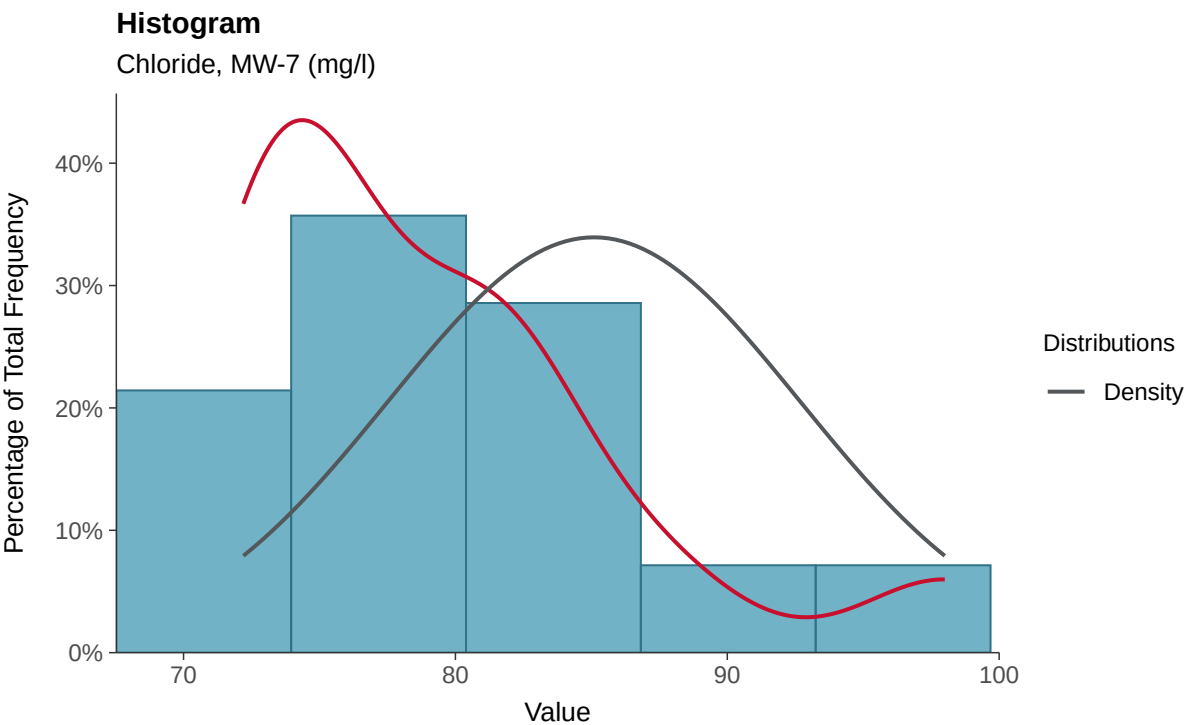
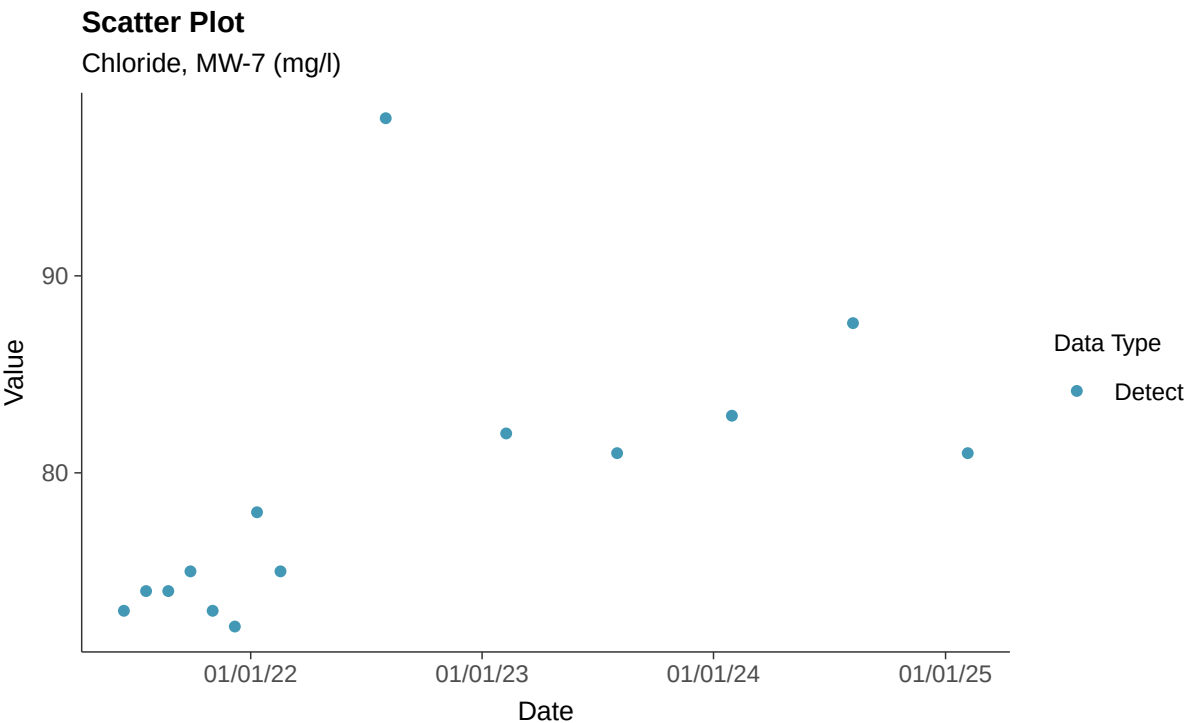


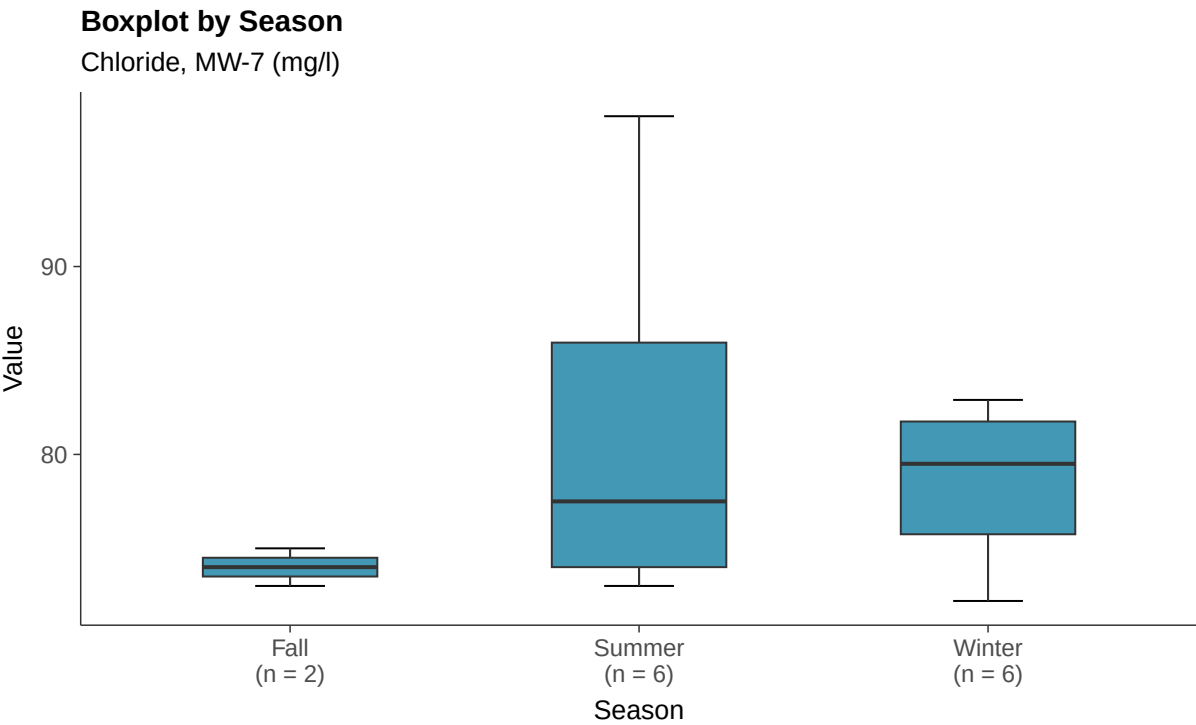
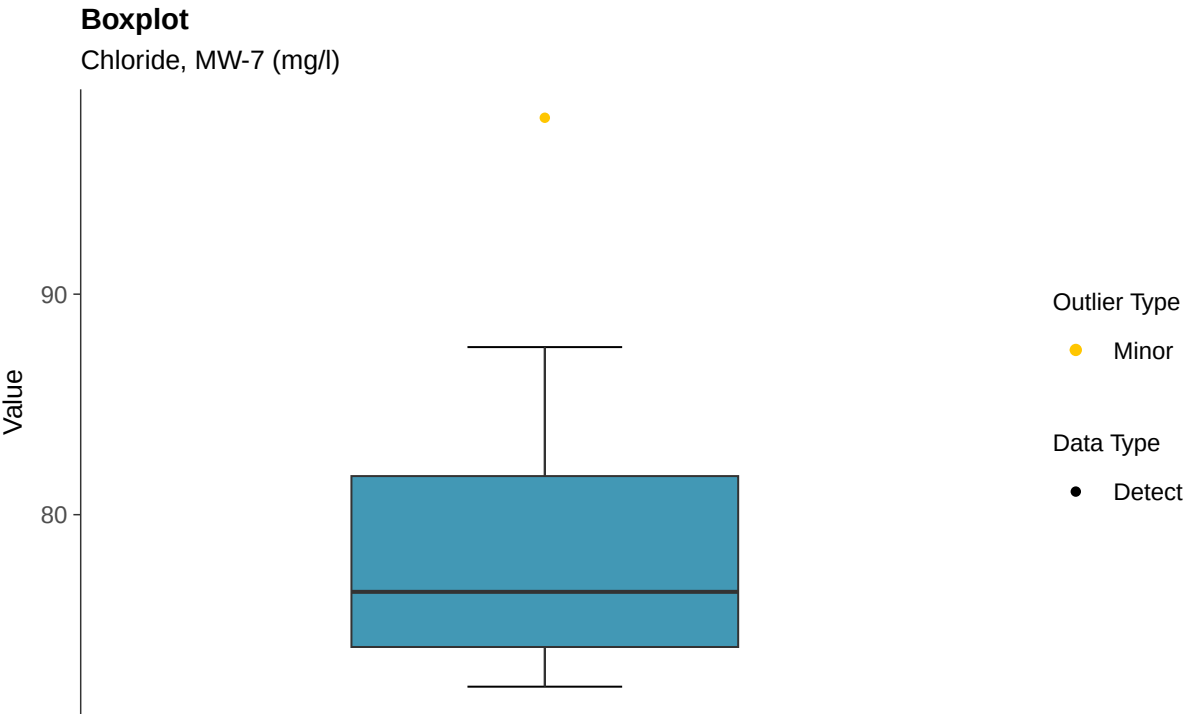


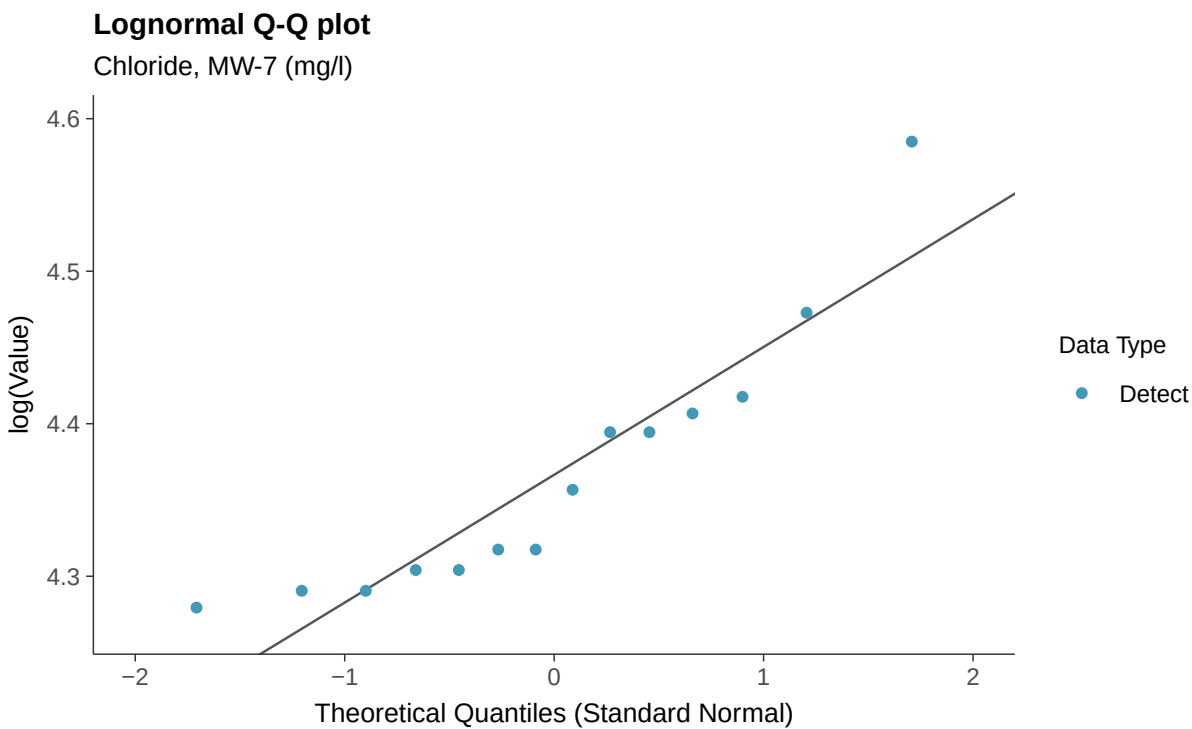
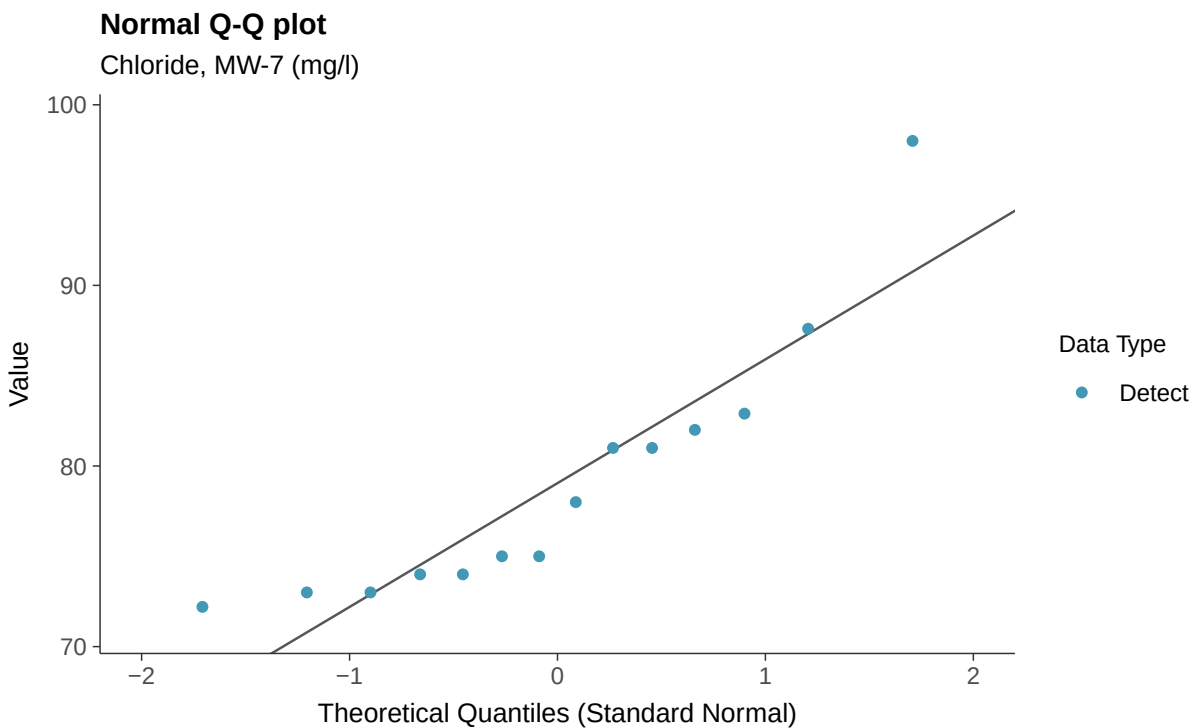


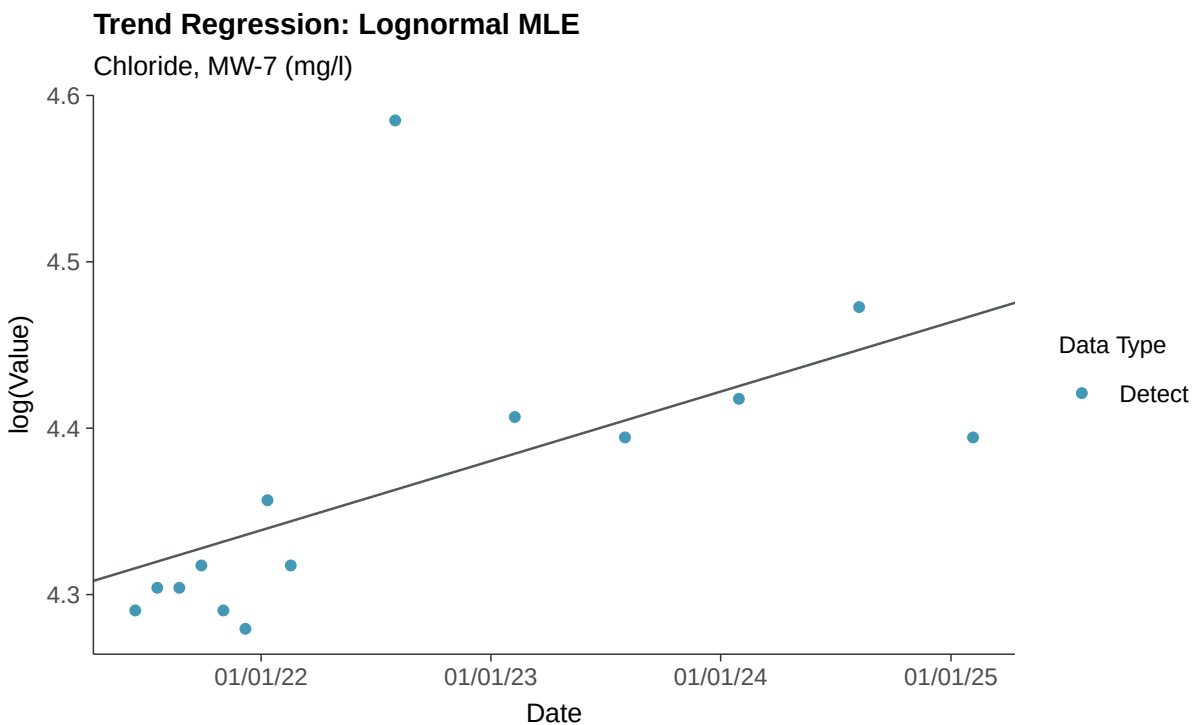
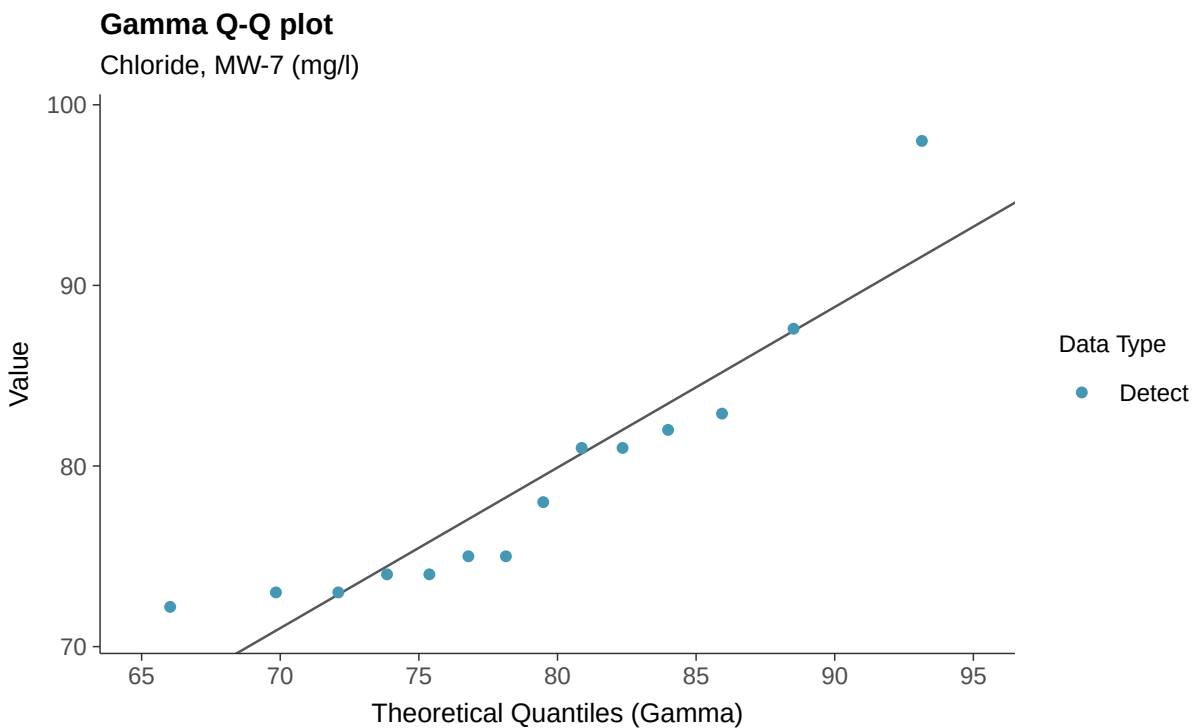
Appendix III: Chloride, MW-7

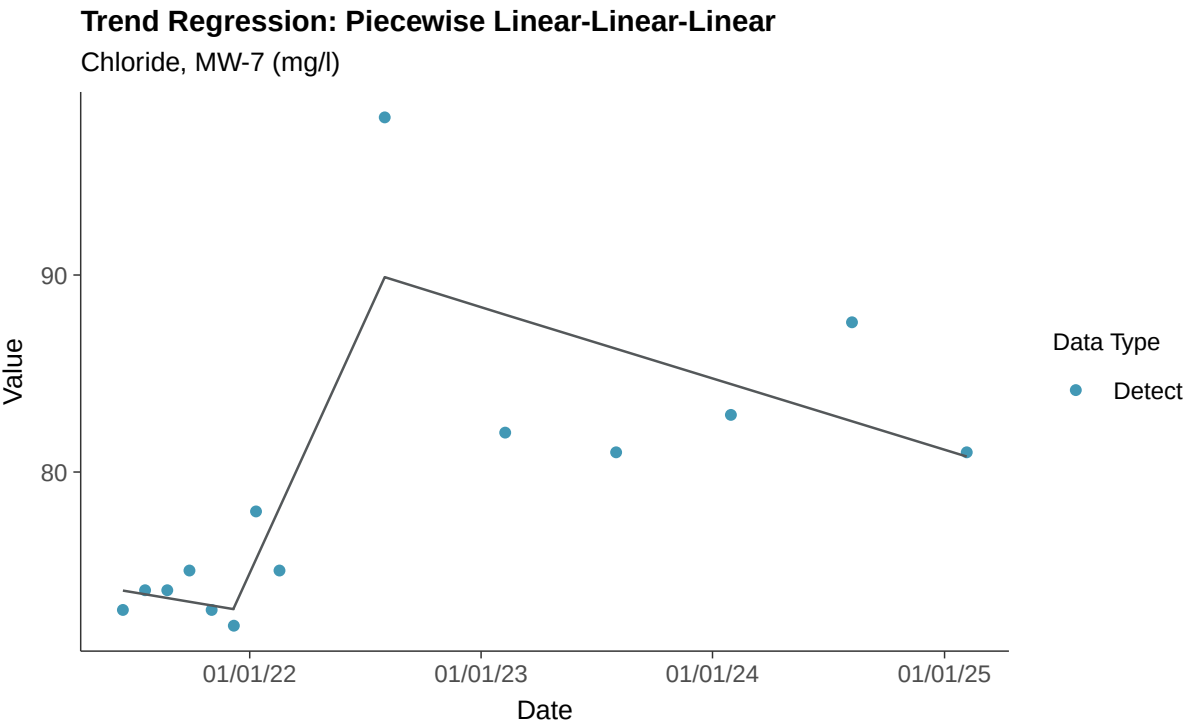
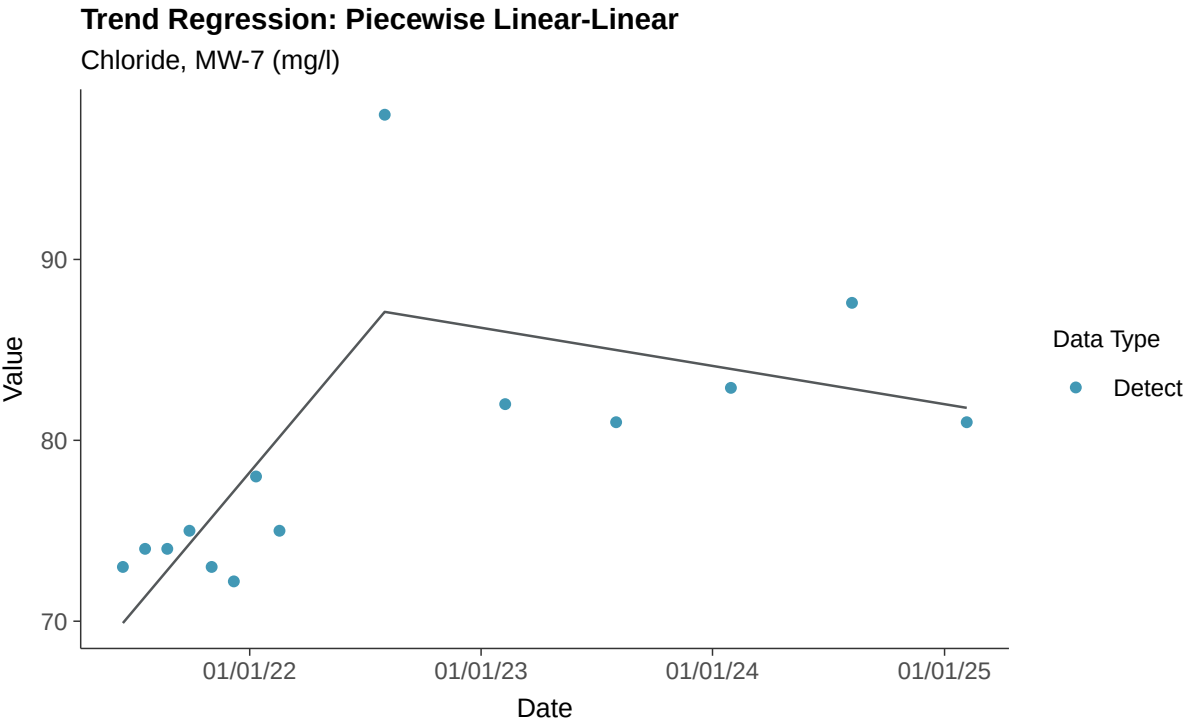
ID: 15_2_108







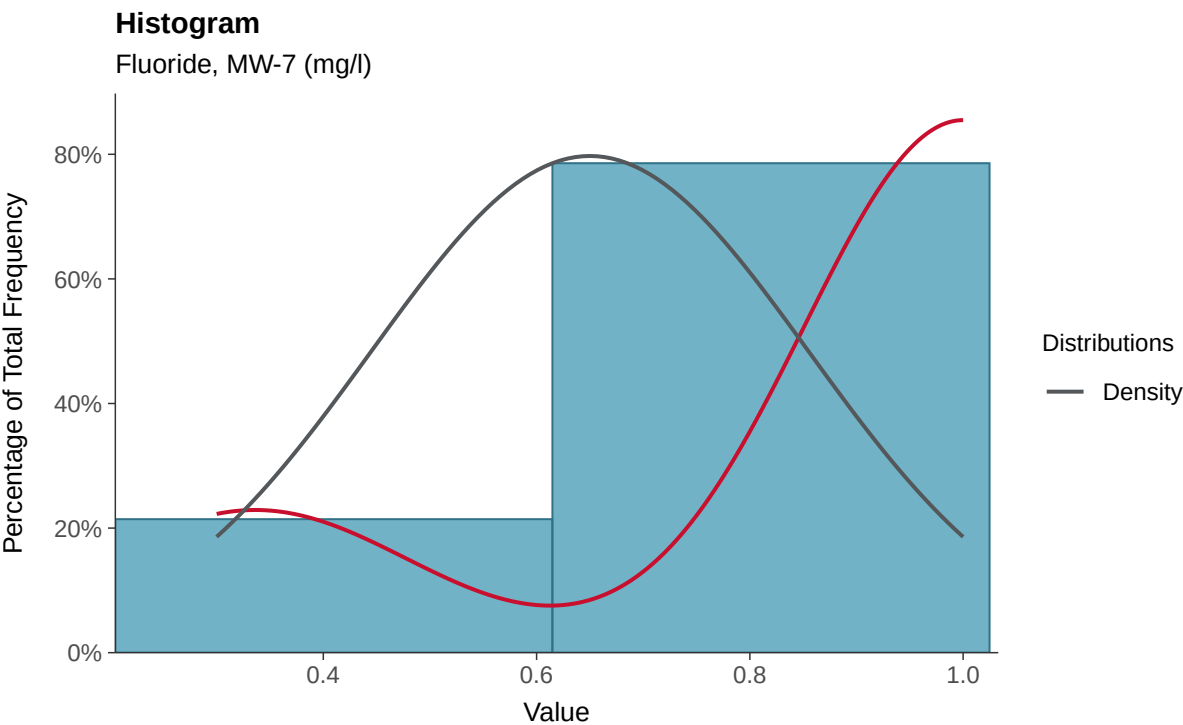
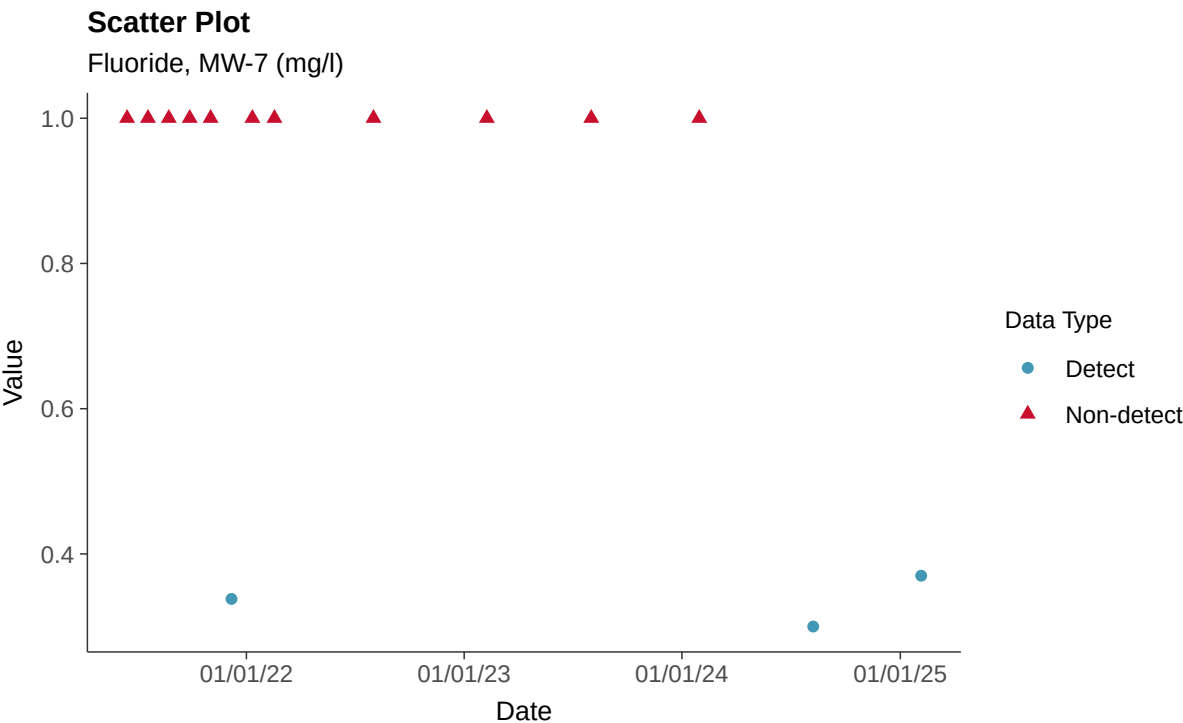


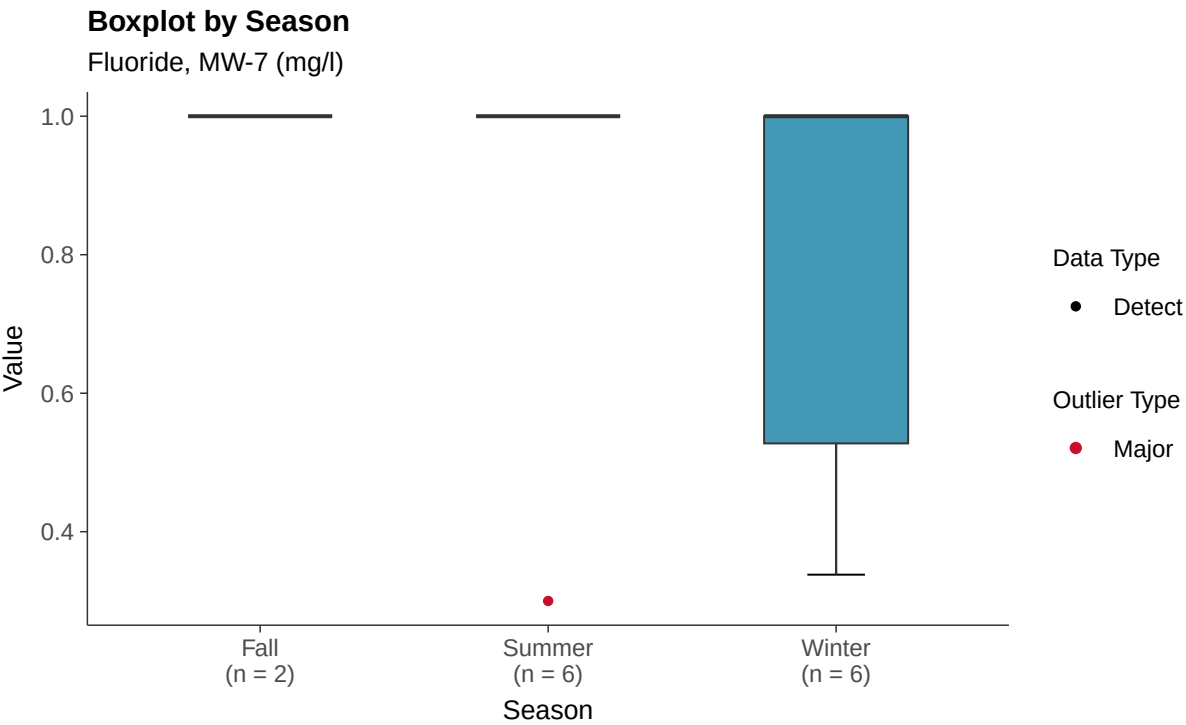
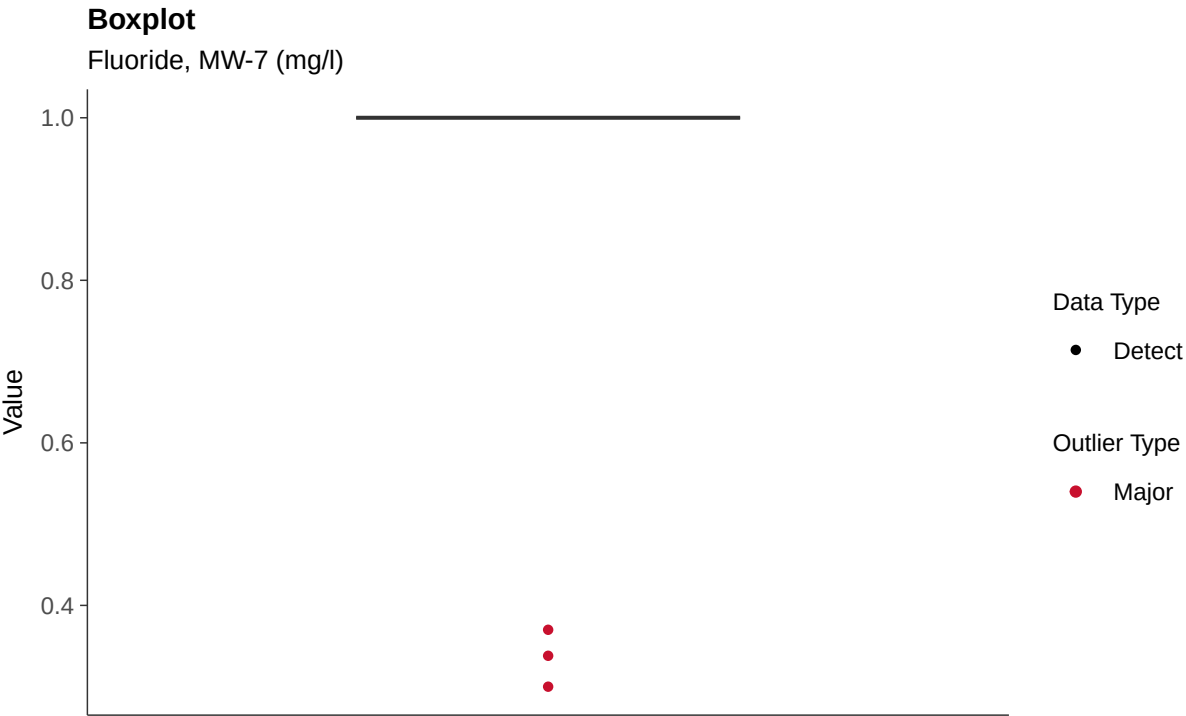


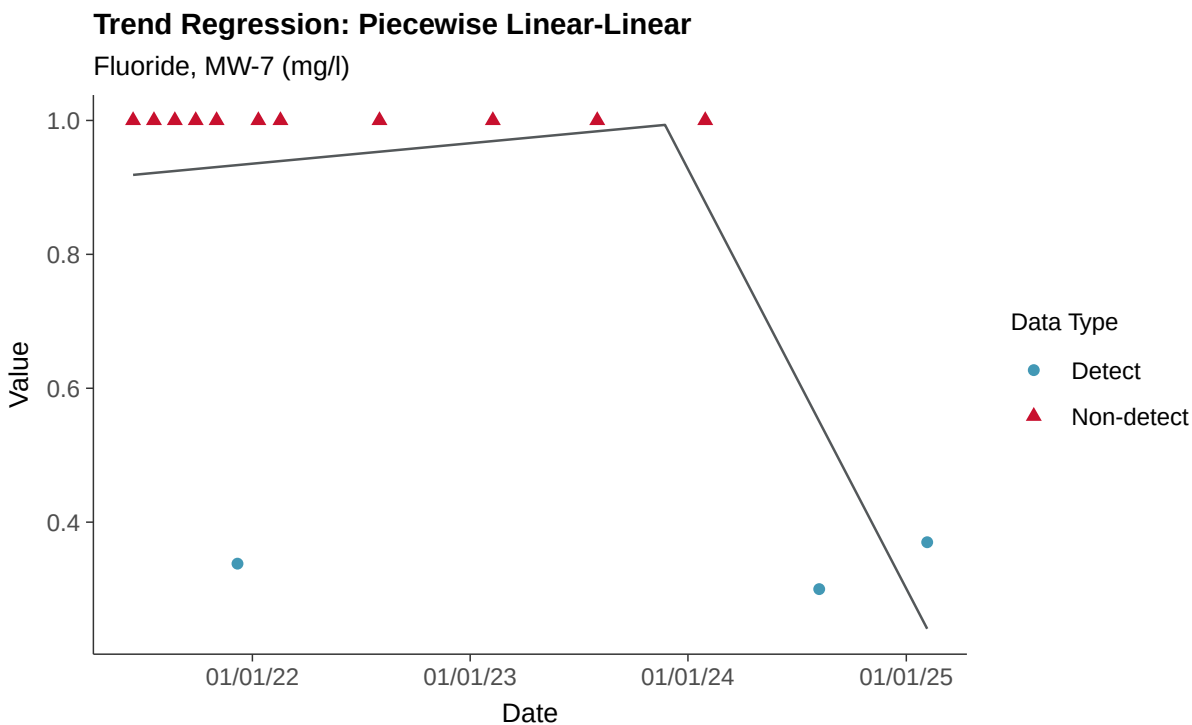
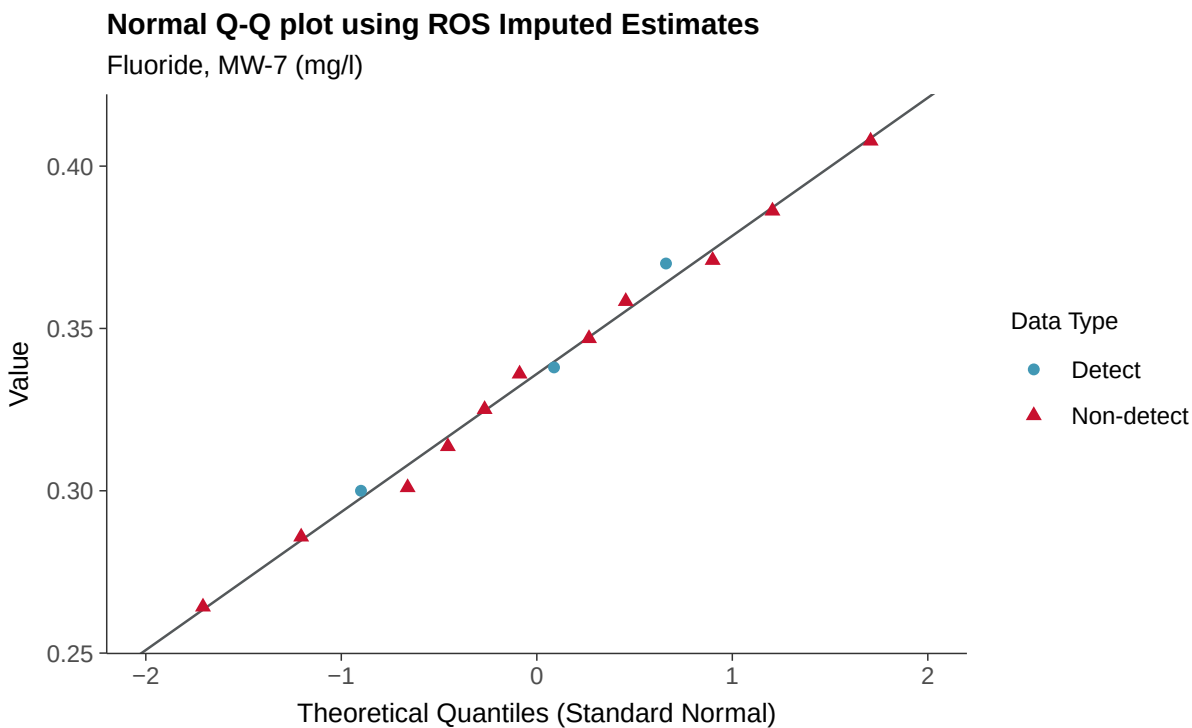


Appendix III: Fluoride, MW-7

ID: 15_2_112



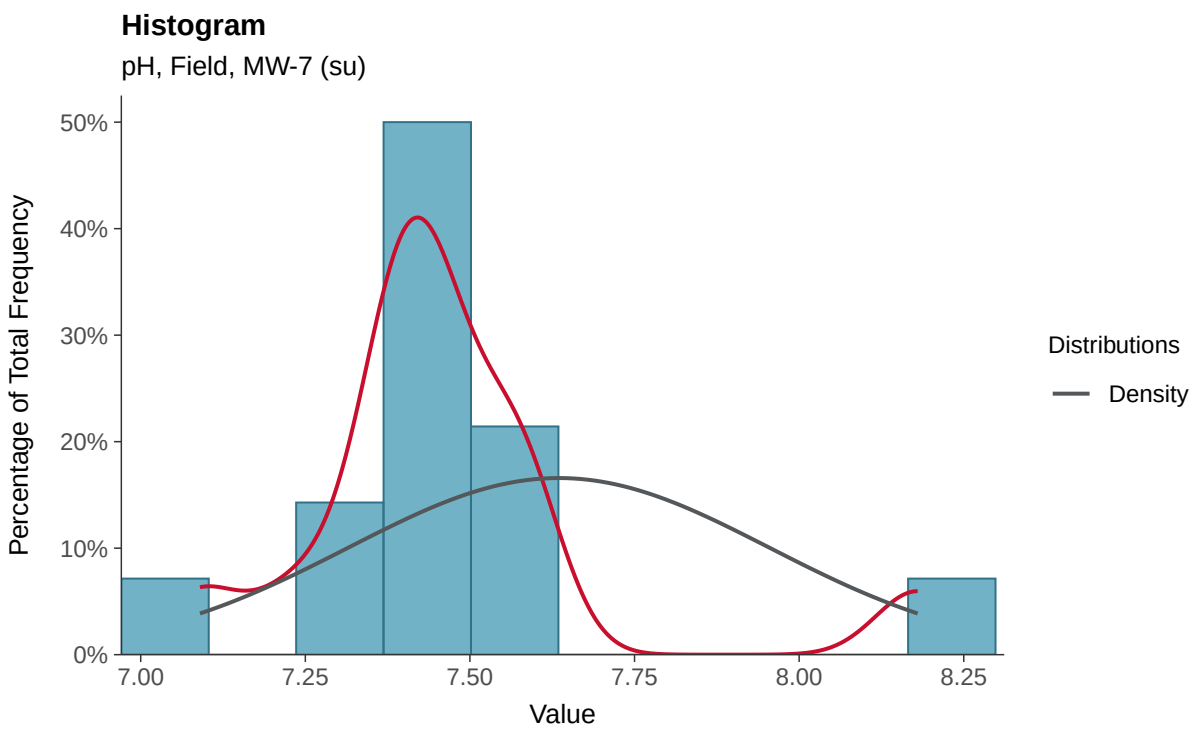
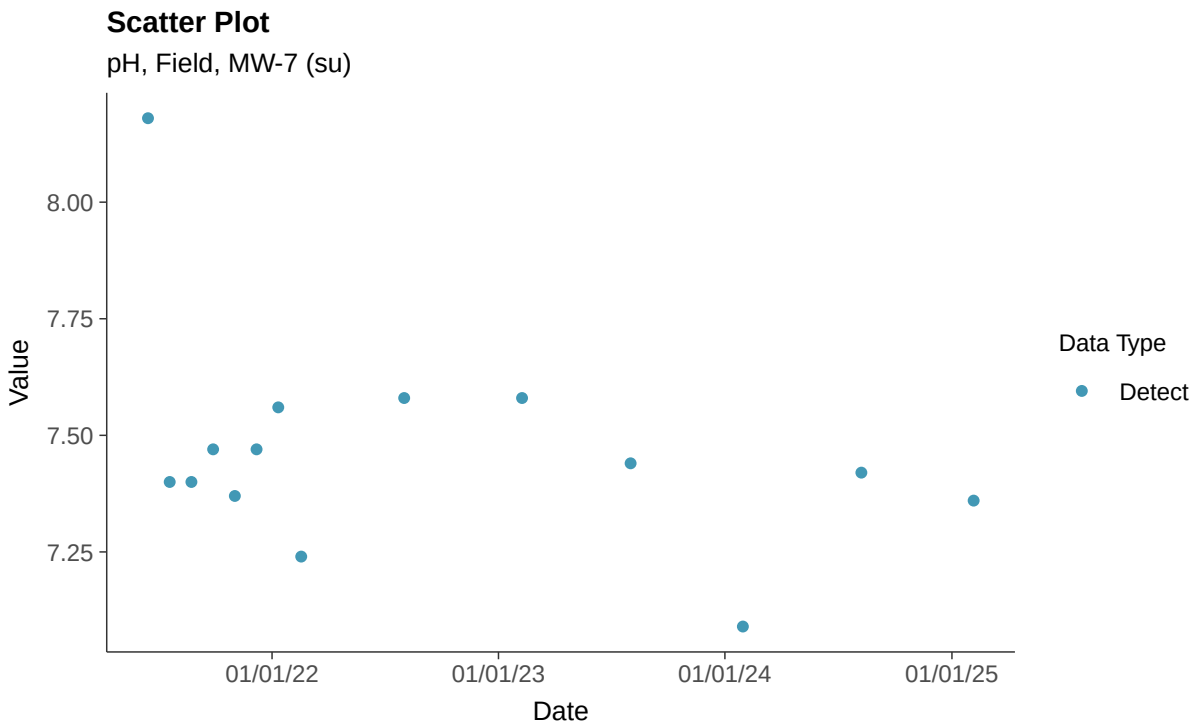


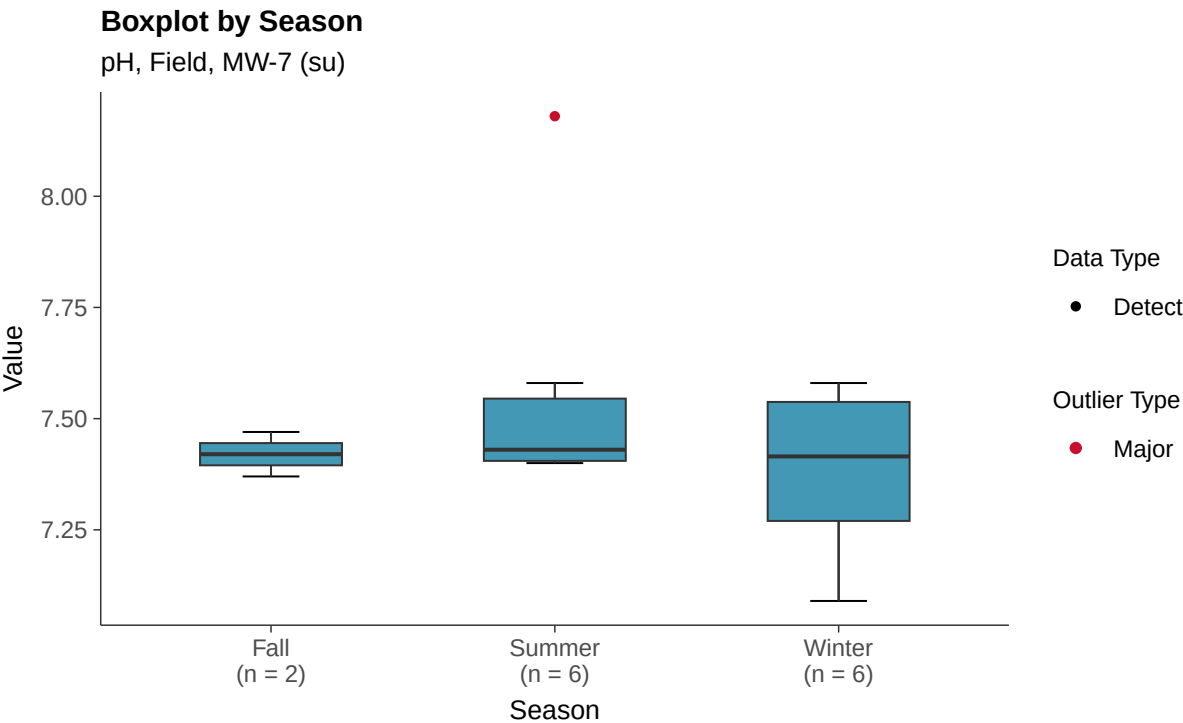
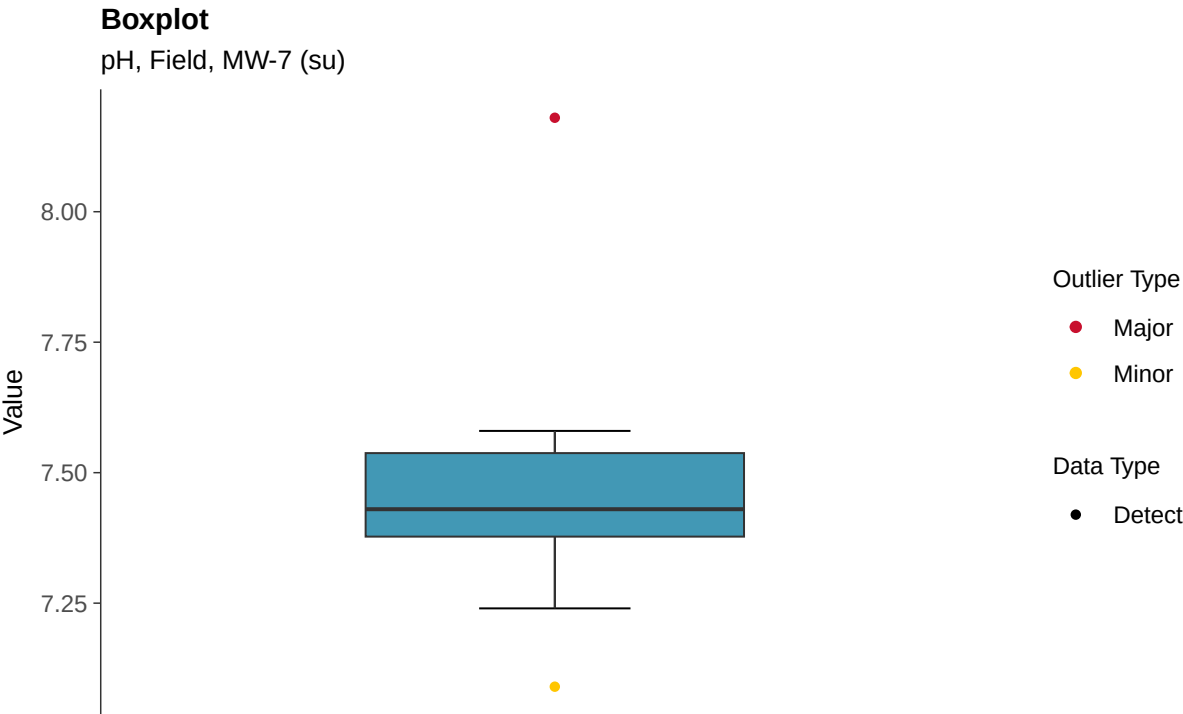


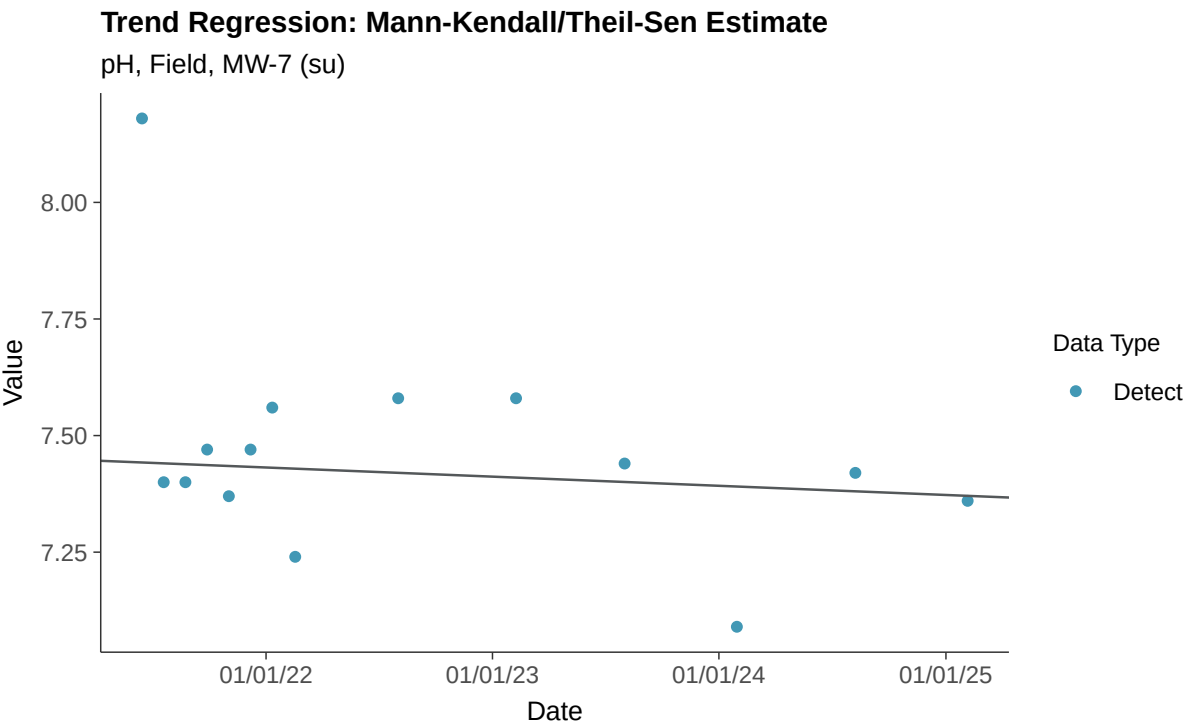
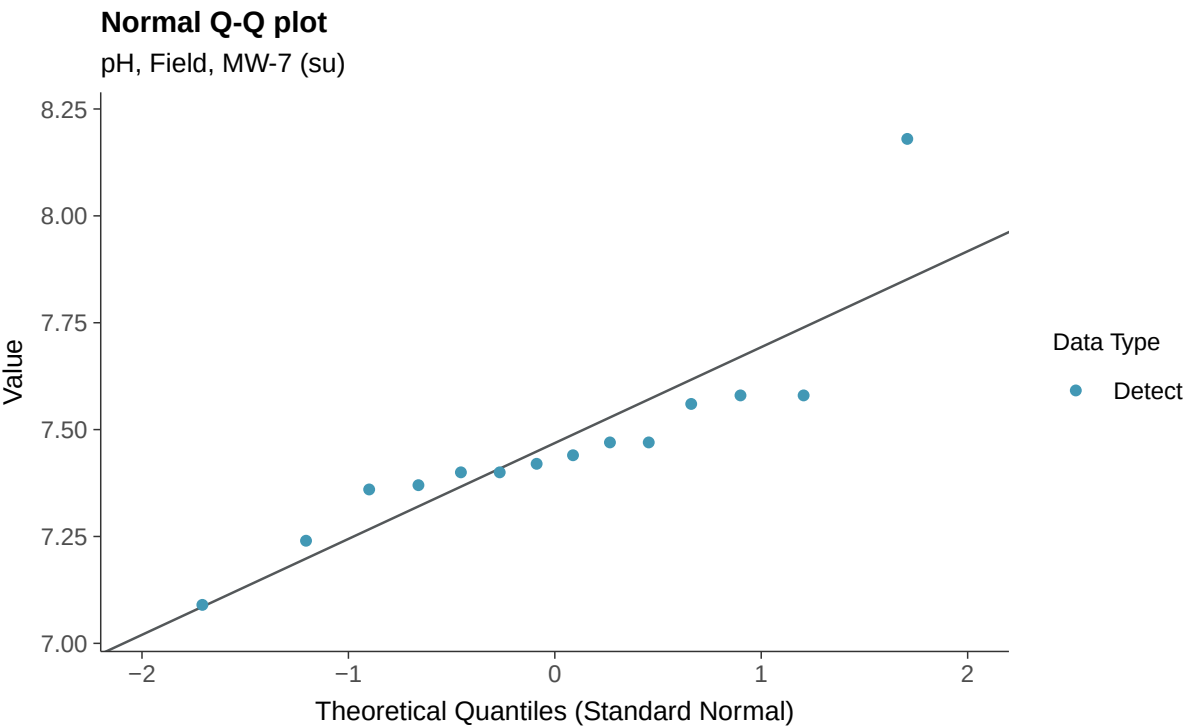


Appendix III: pH, Field, MW-7

ID: 15_2_120



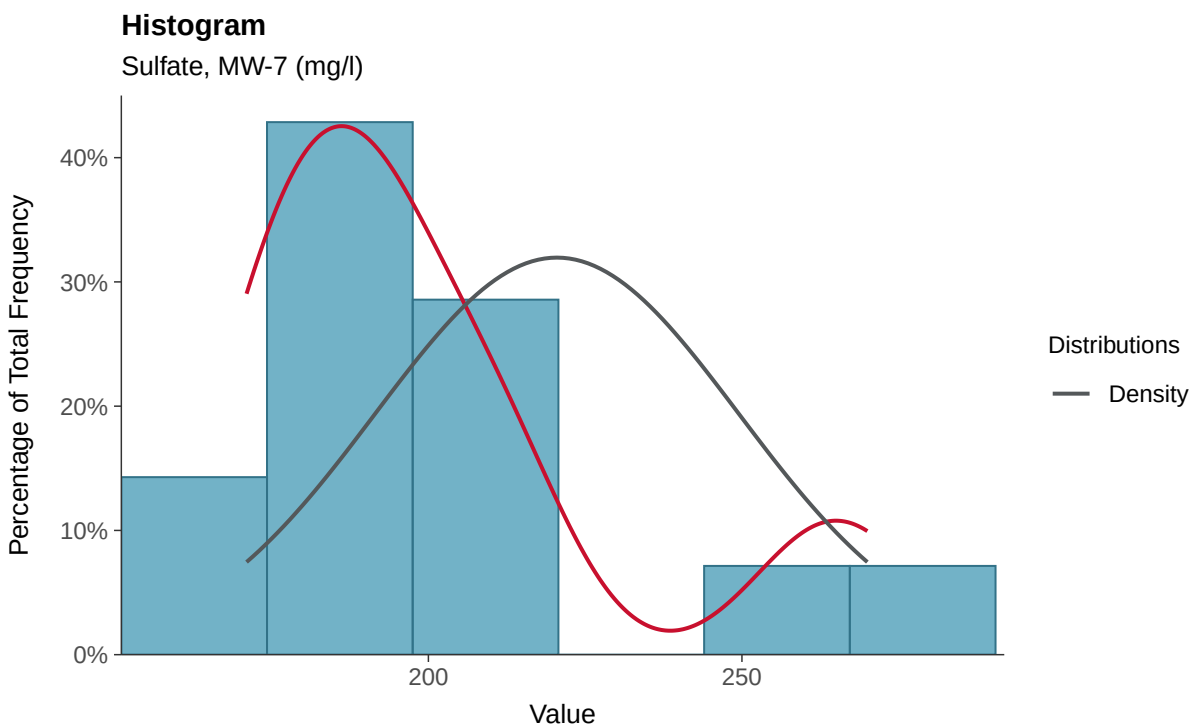
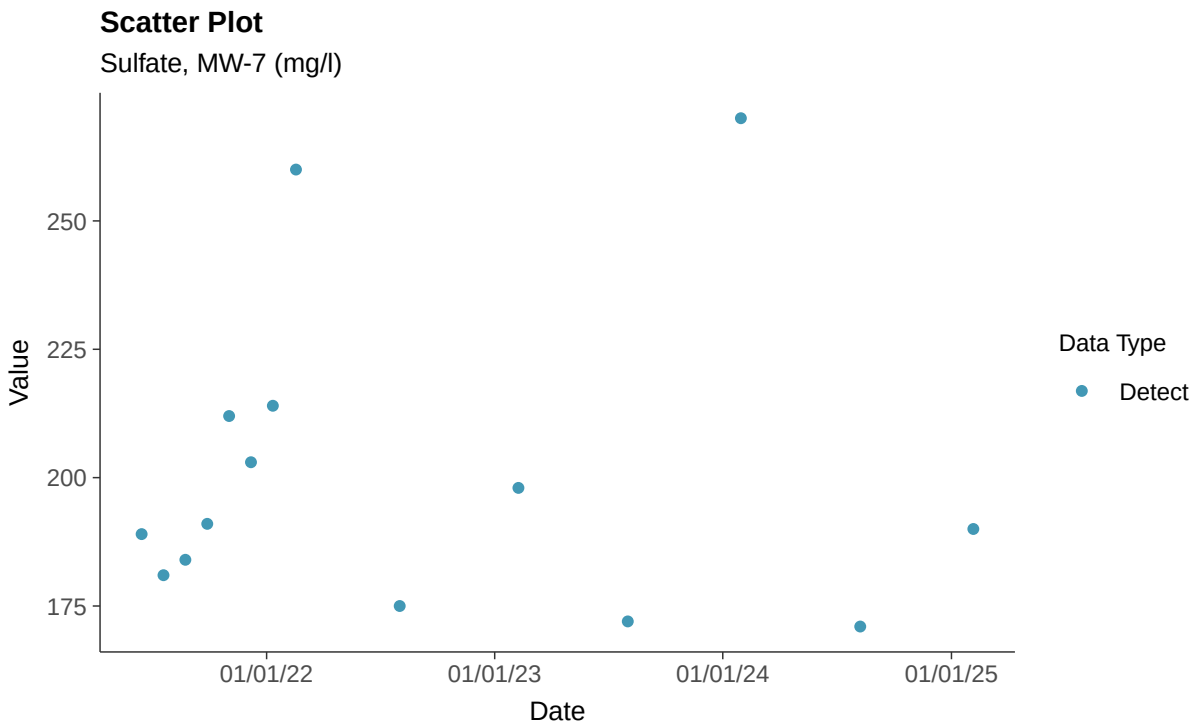


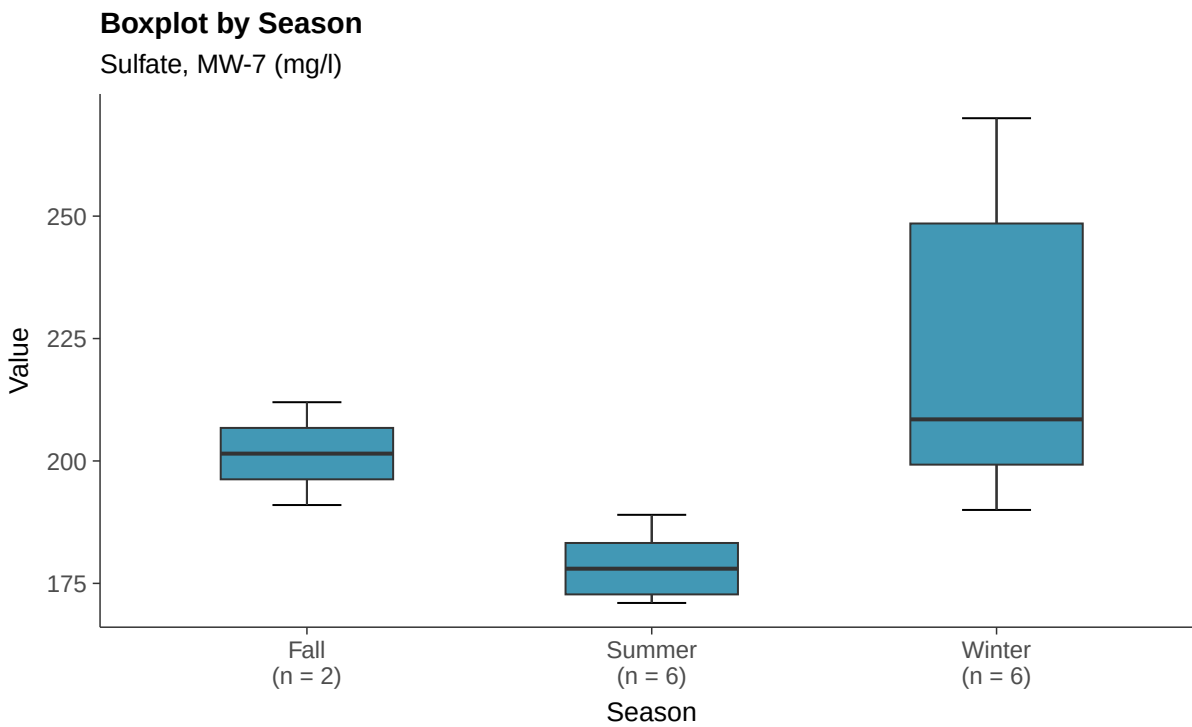
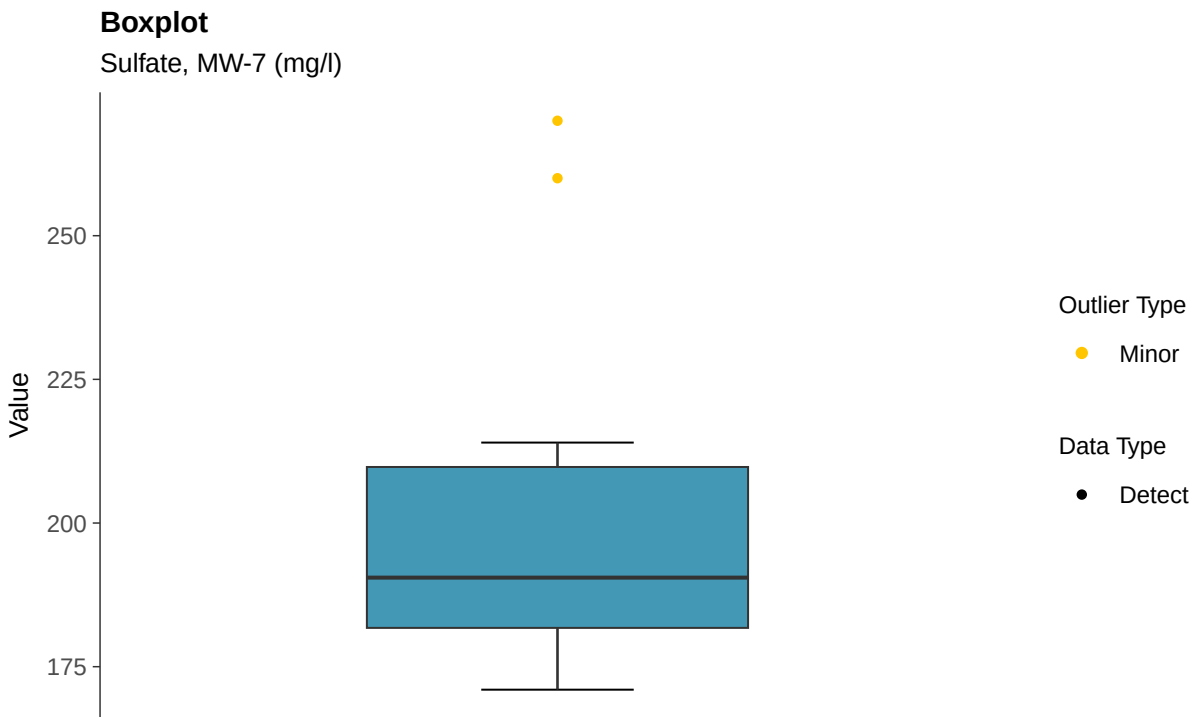


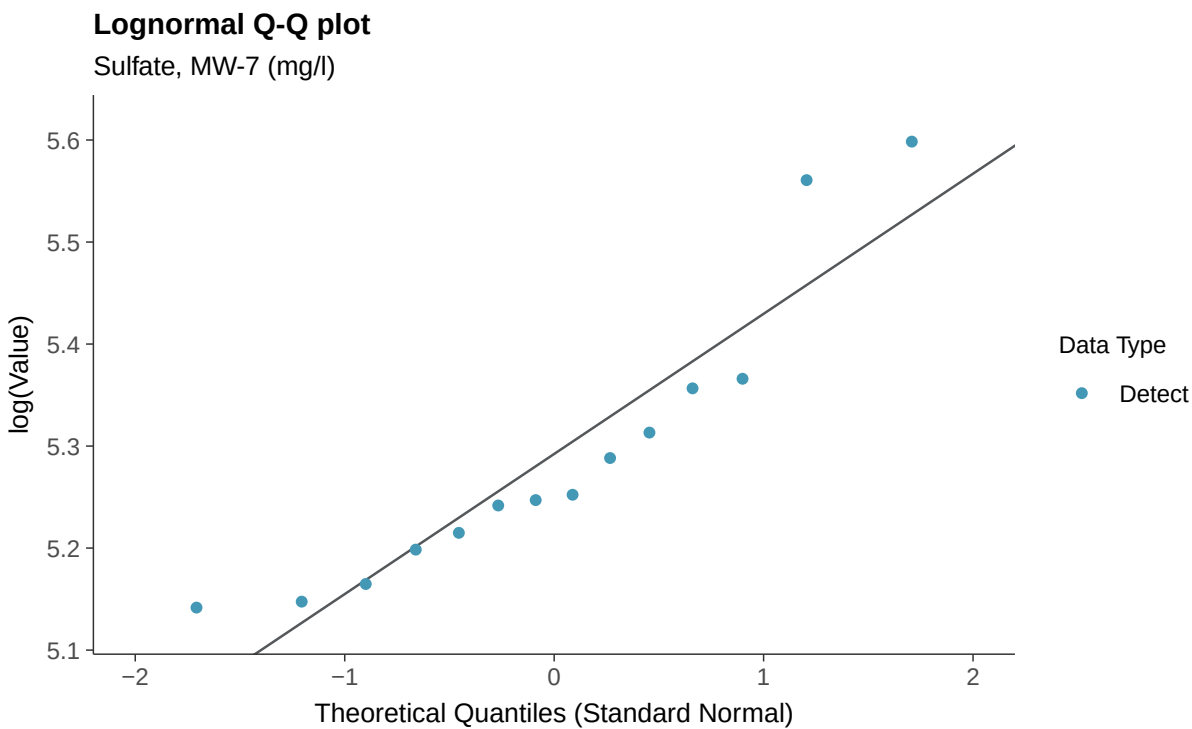
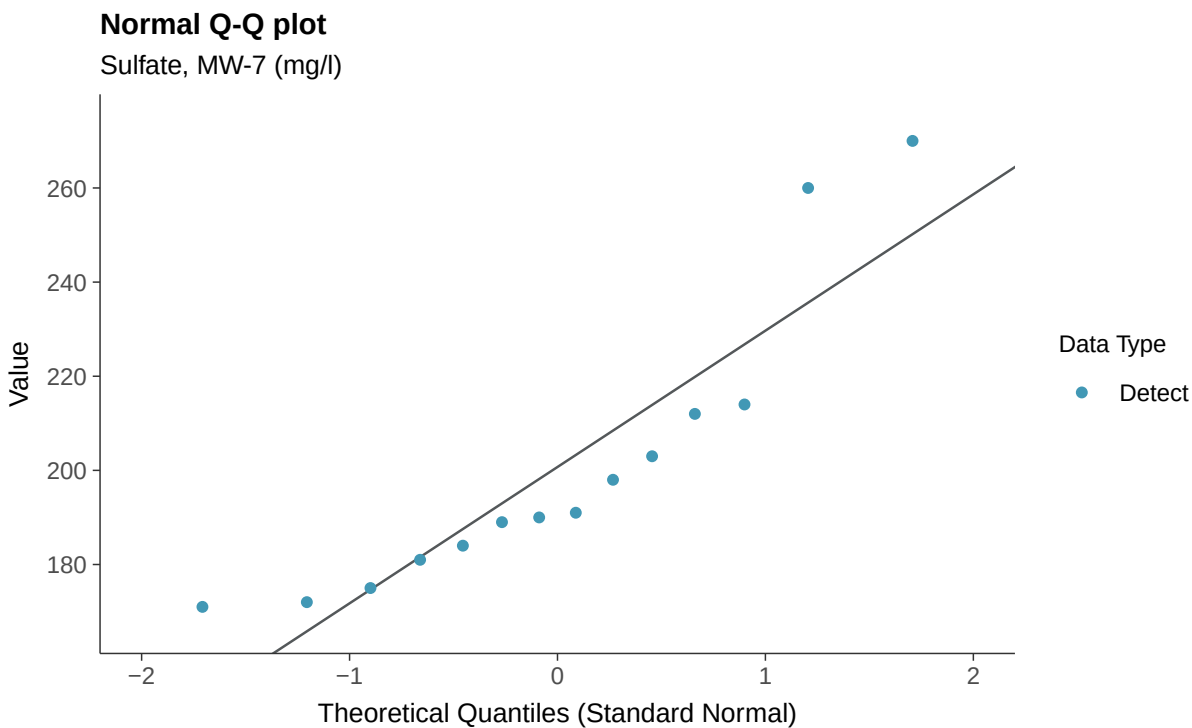


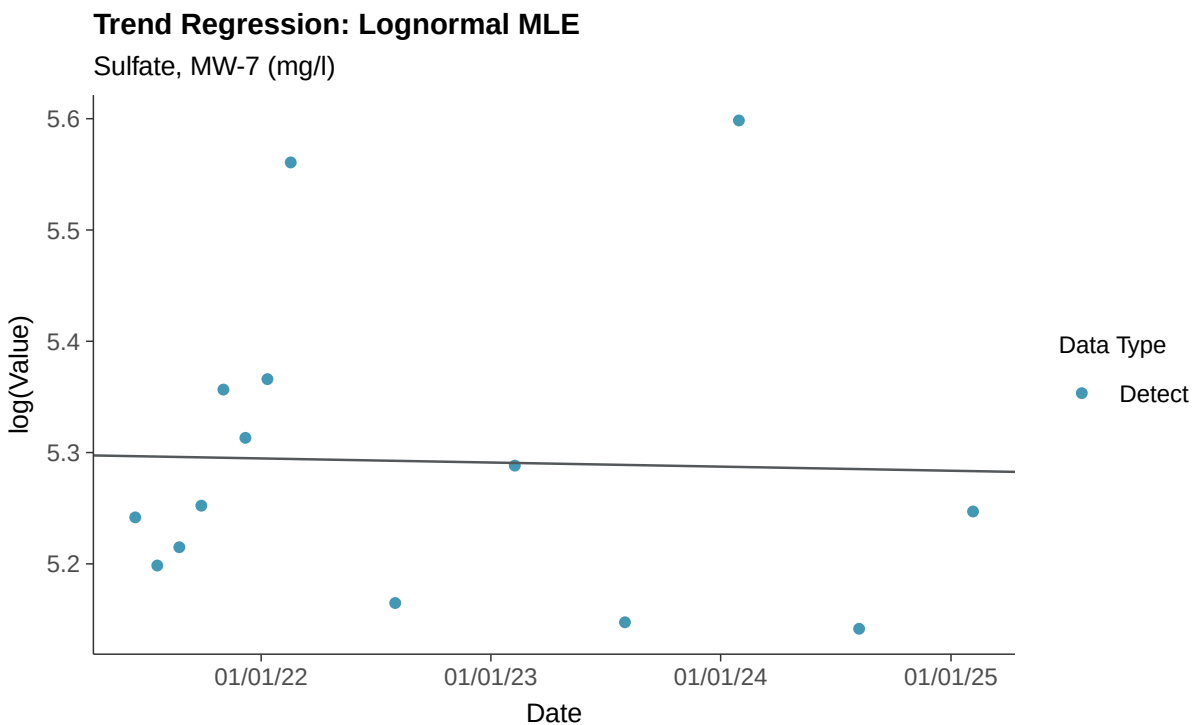
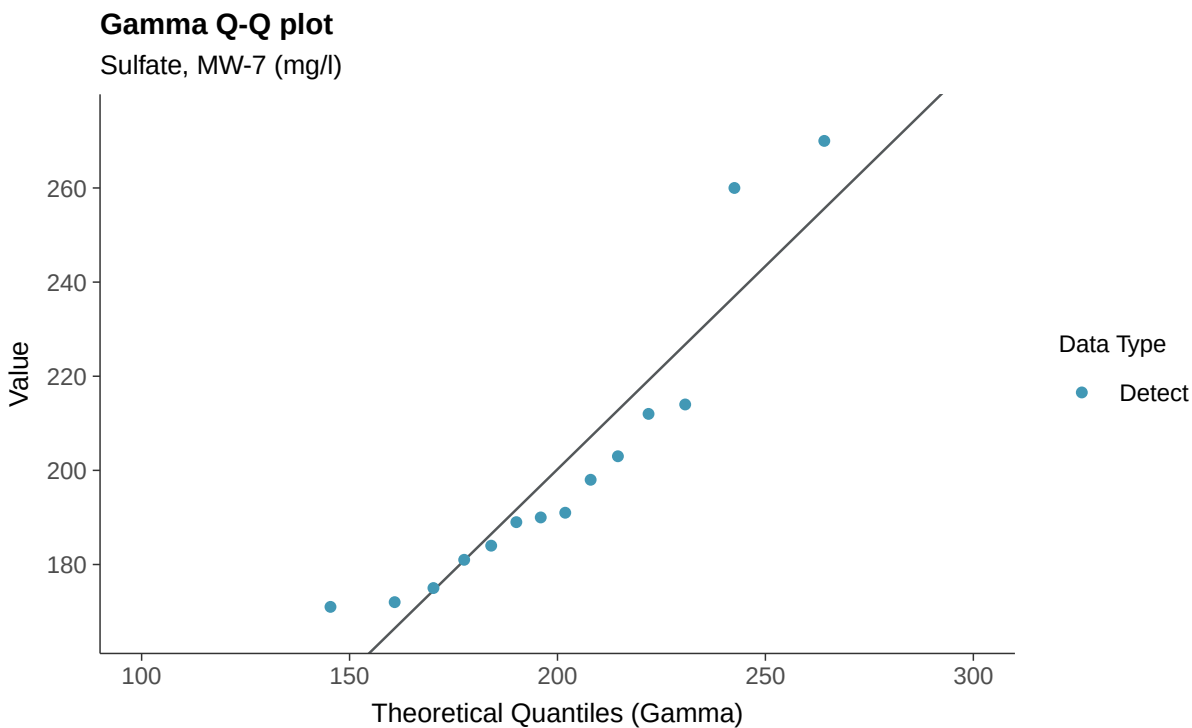
Appendix III: Sulfate, MW-7

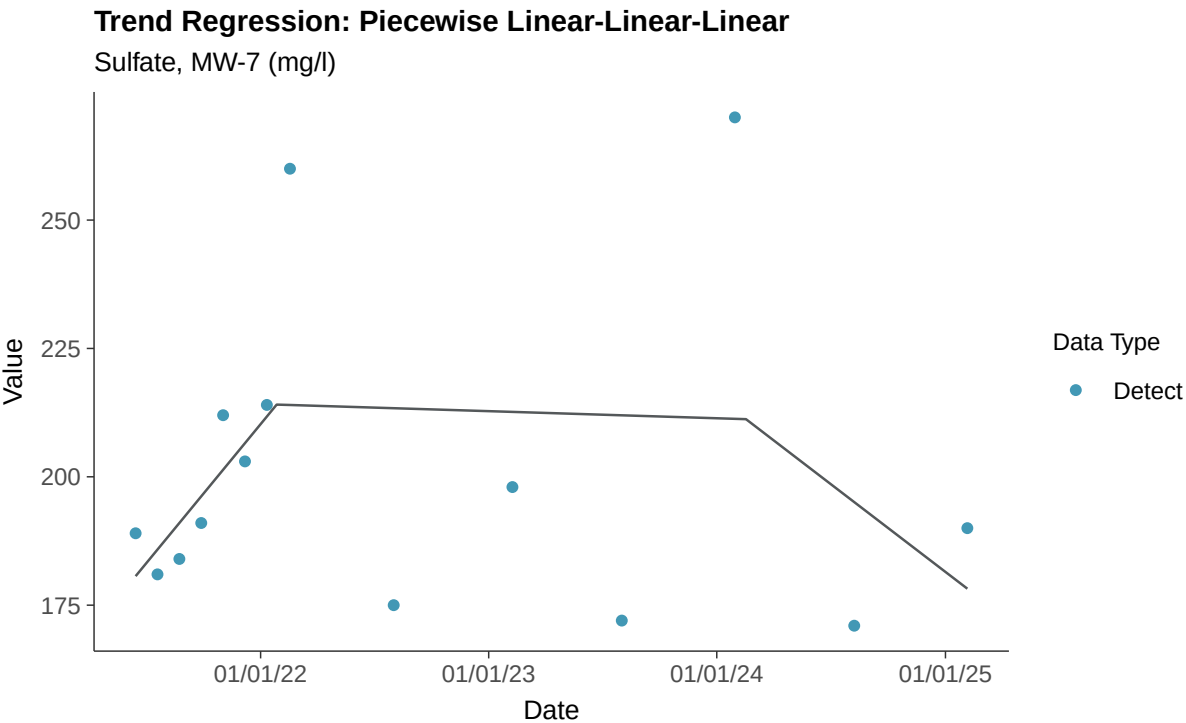
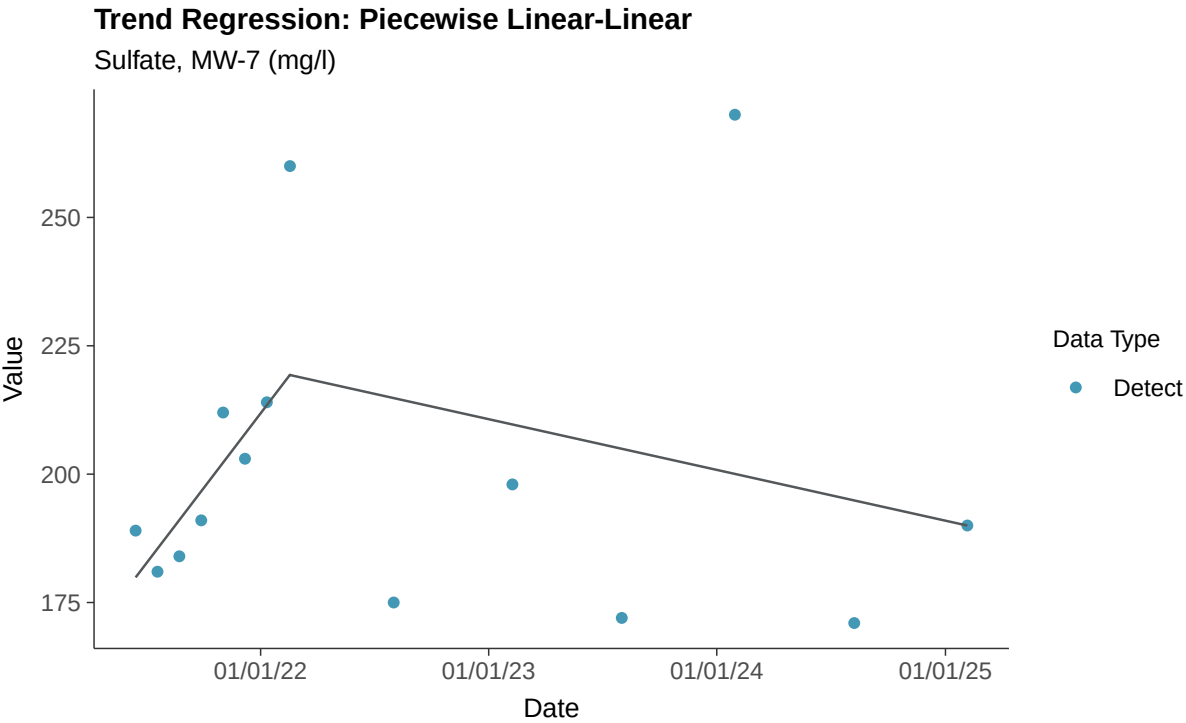
ID: 15_2_124







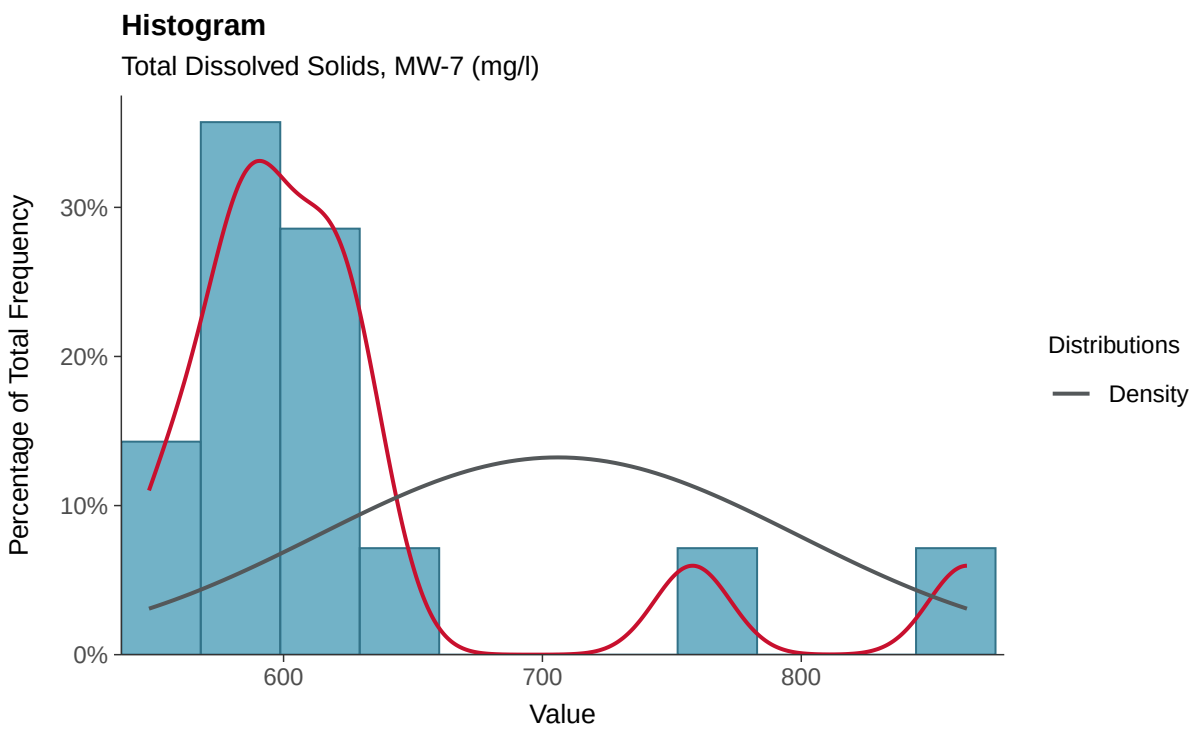
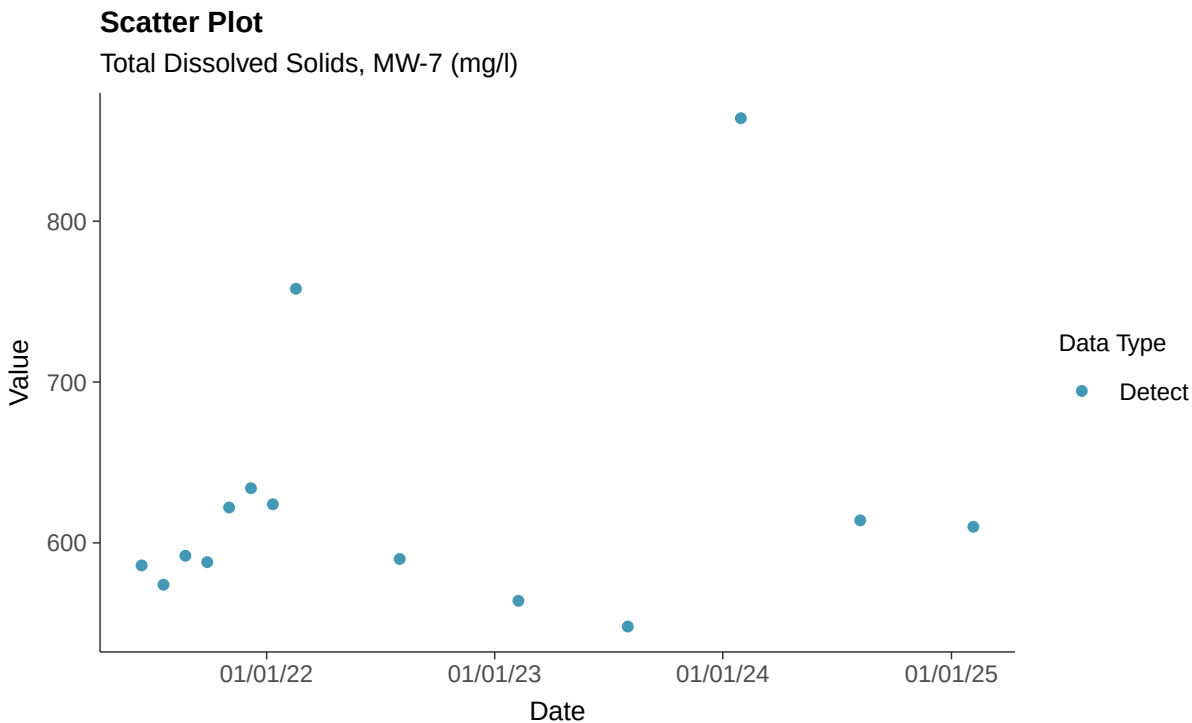


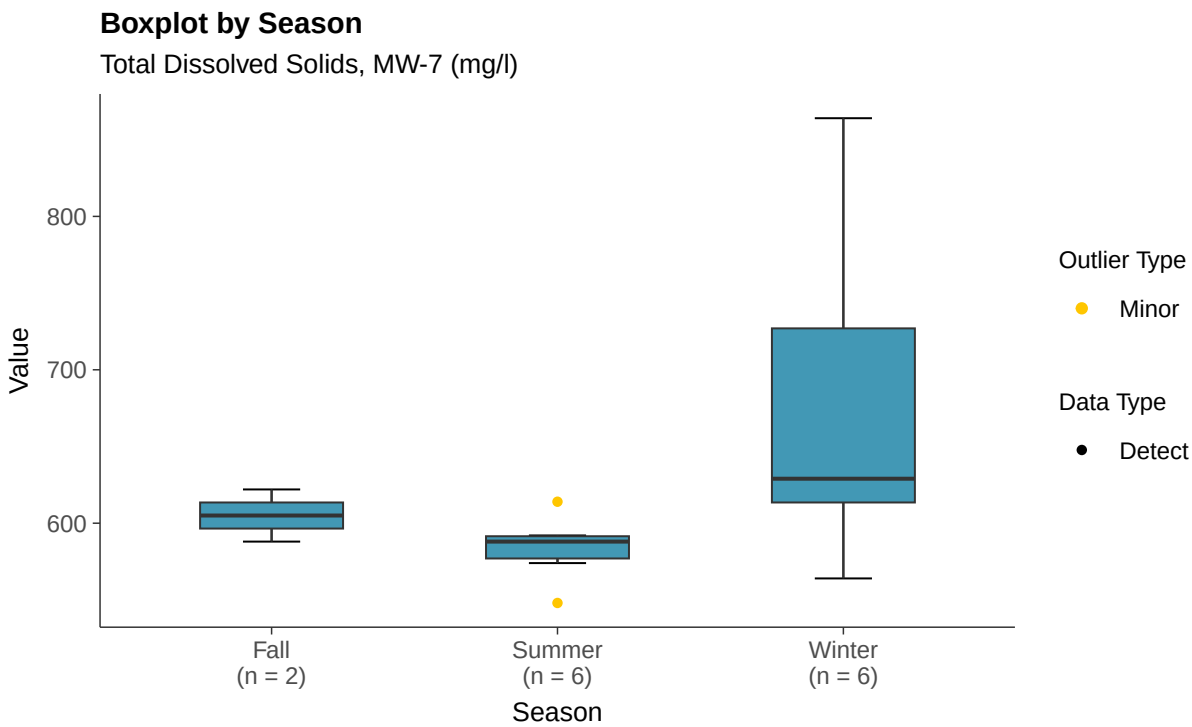
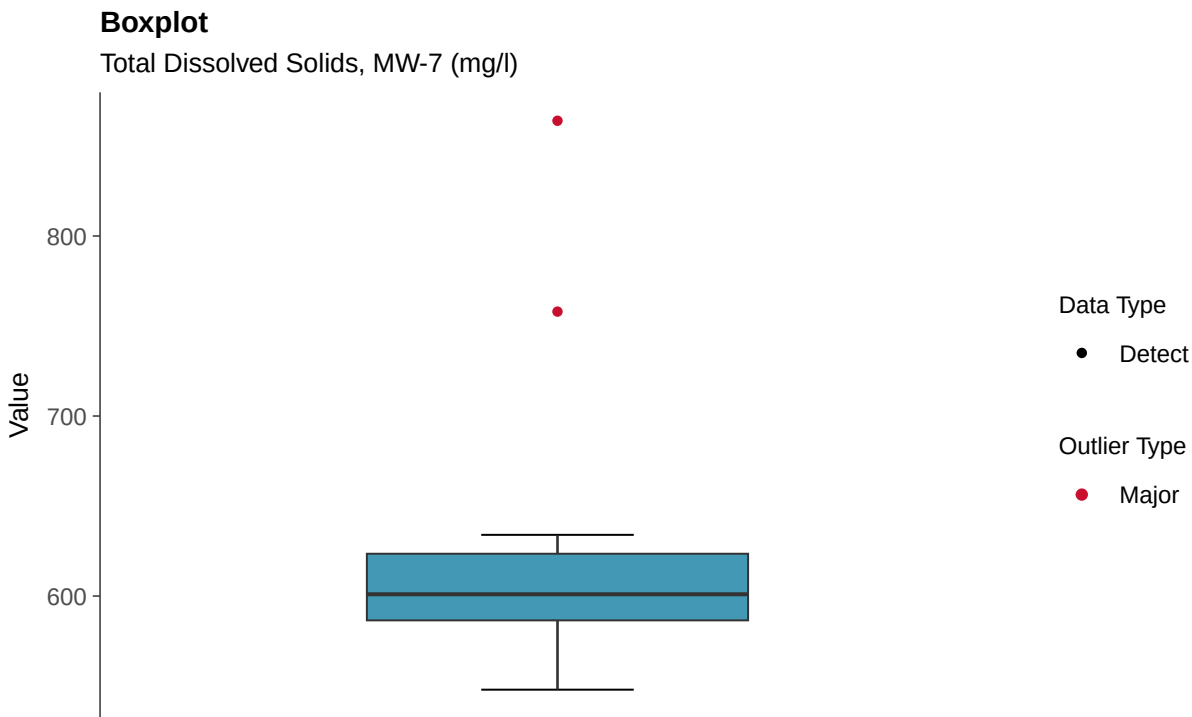


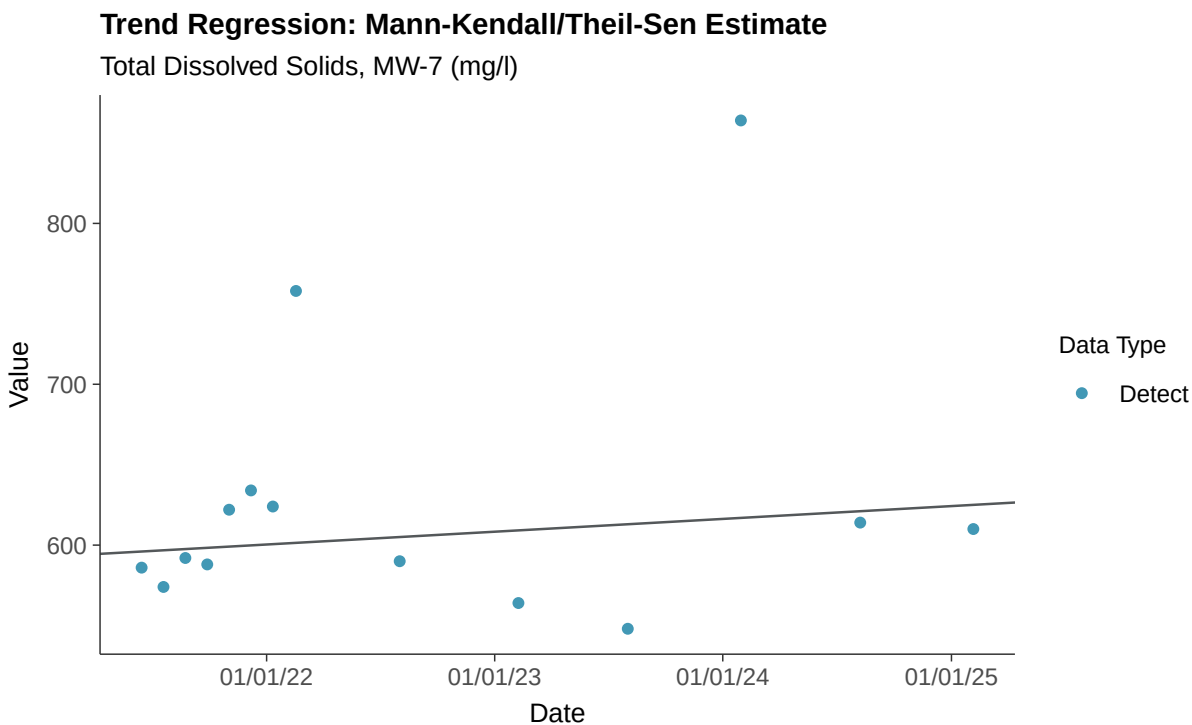
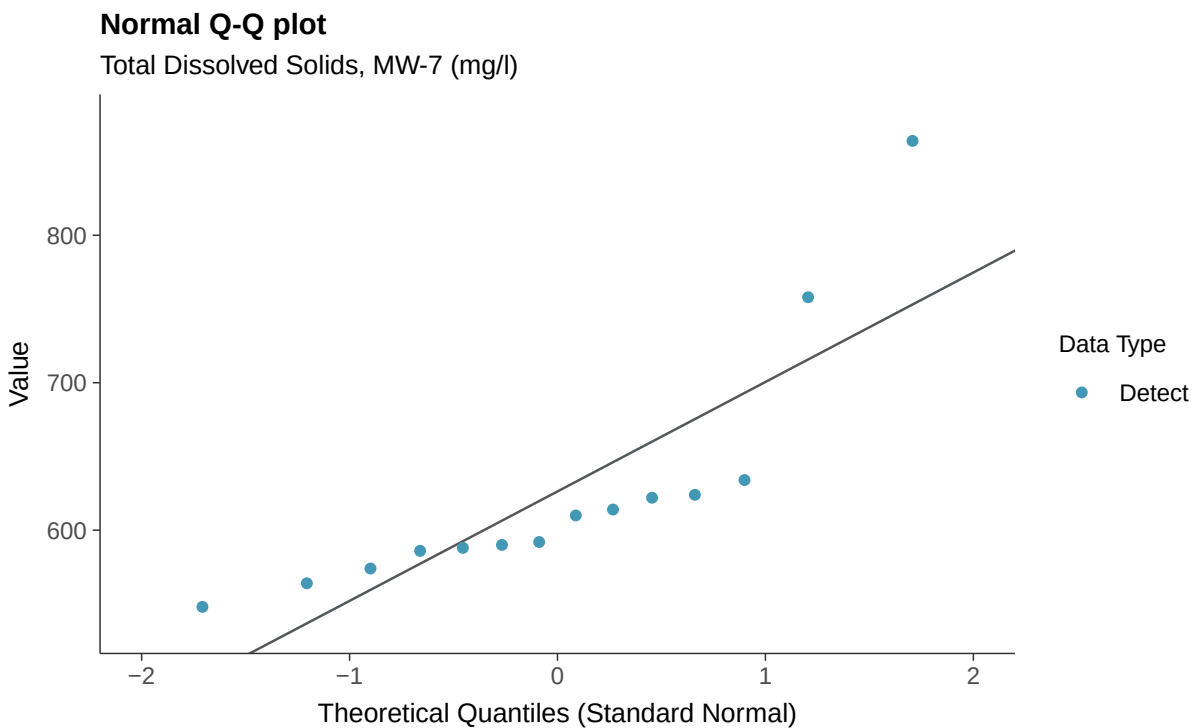


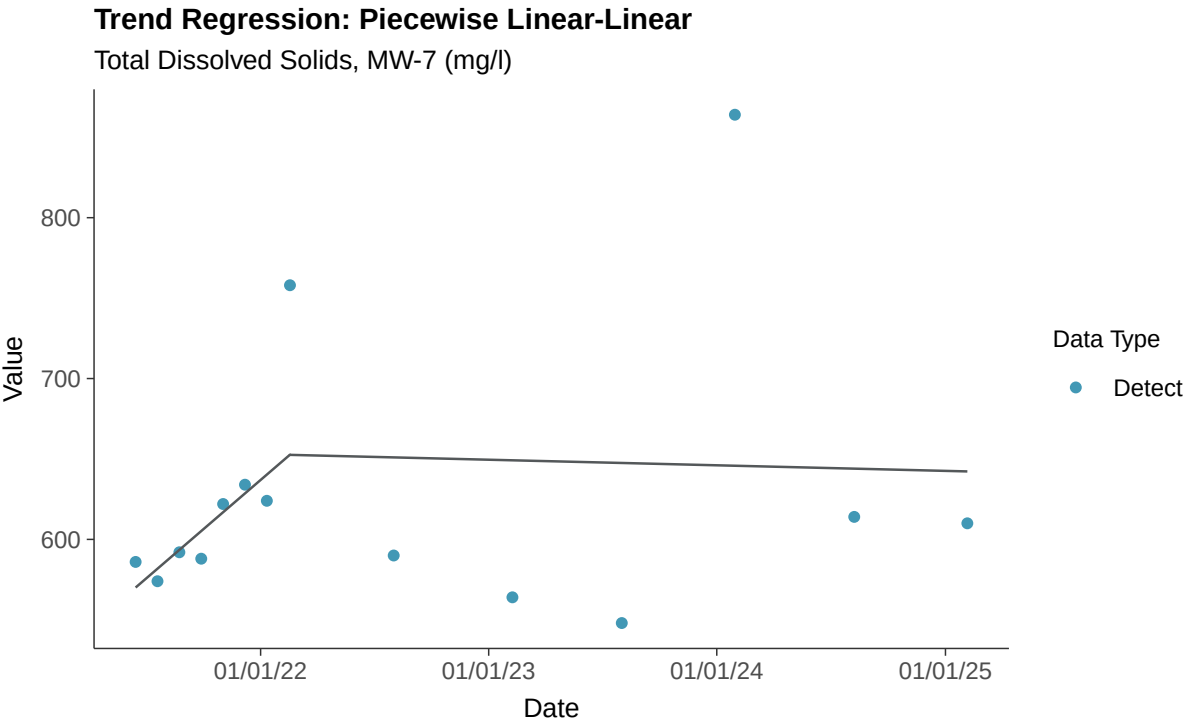
Appendix III: Total Dissolved Solids, MW-7

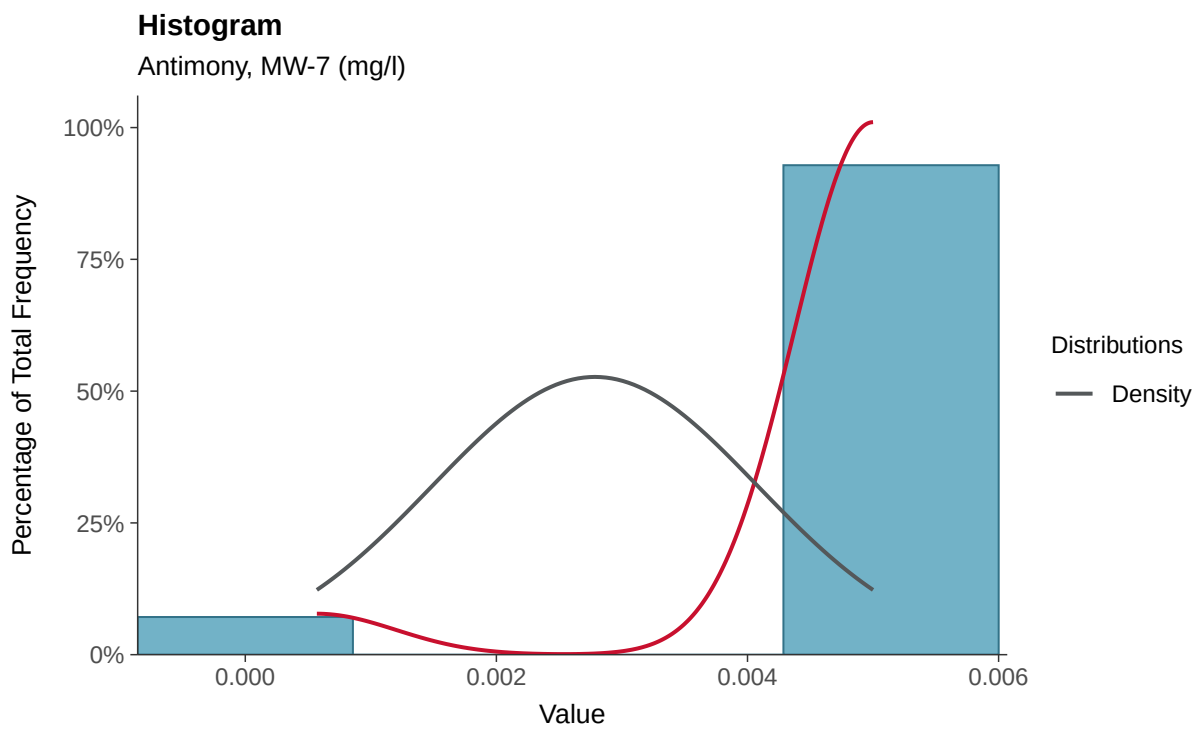
ID: 15_2_126

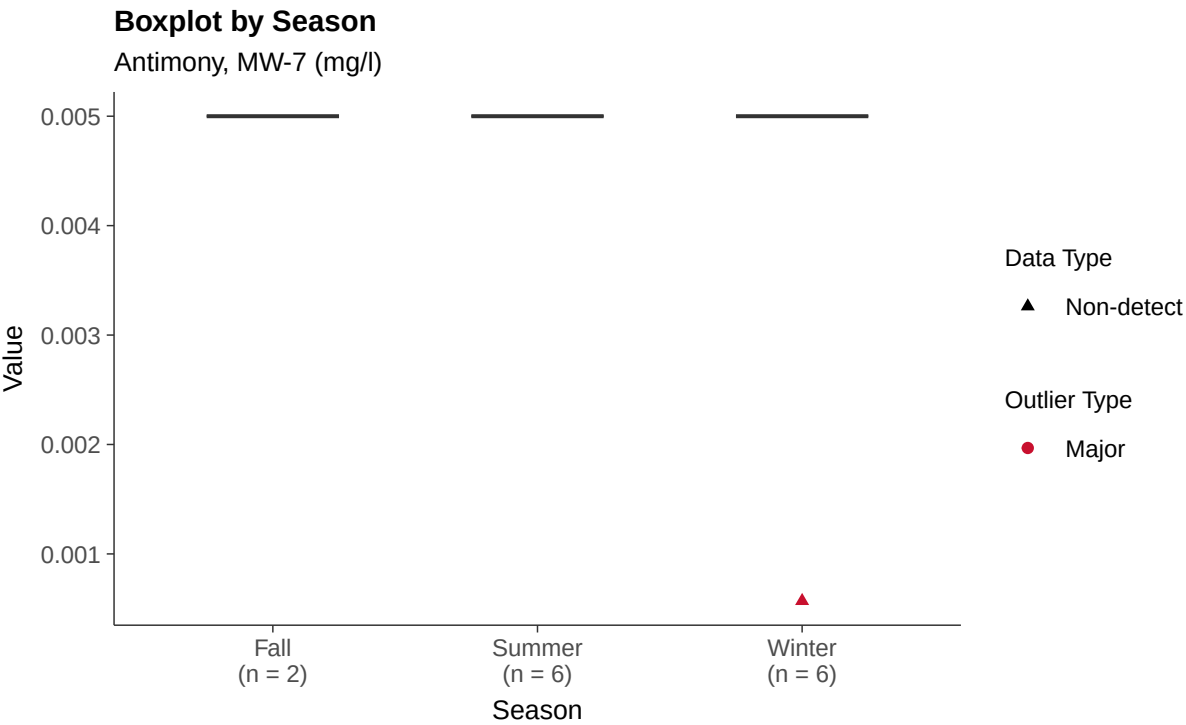
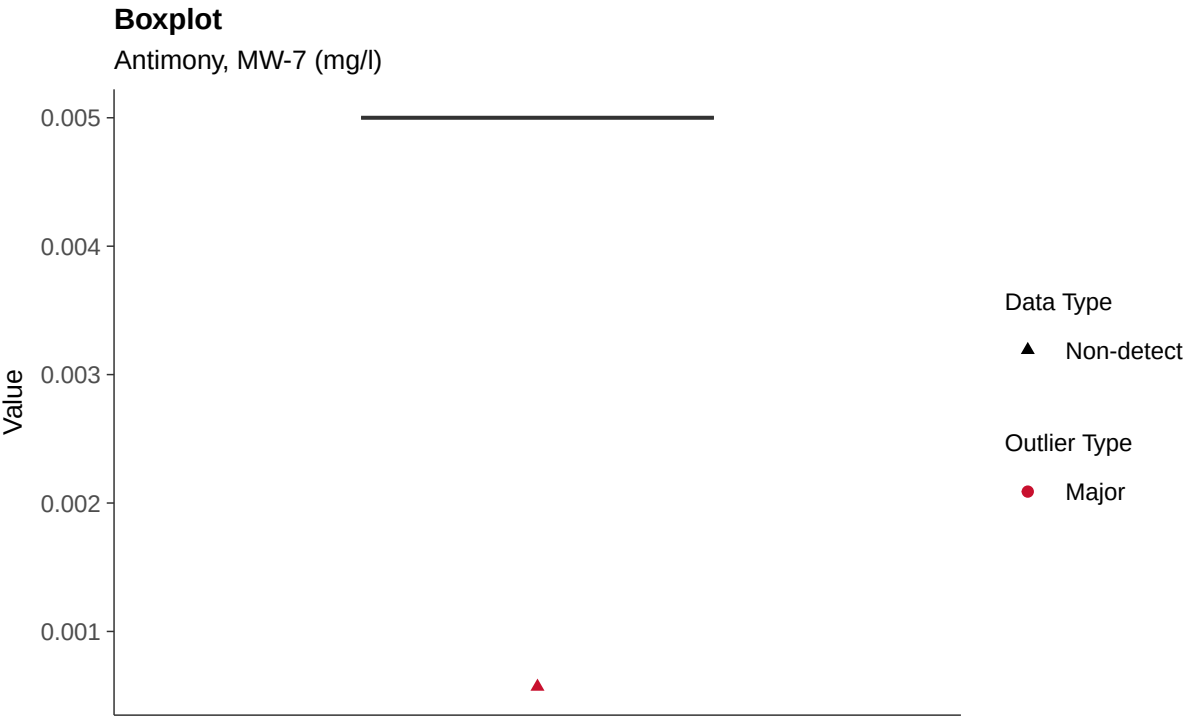








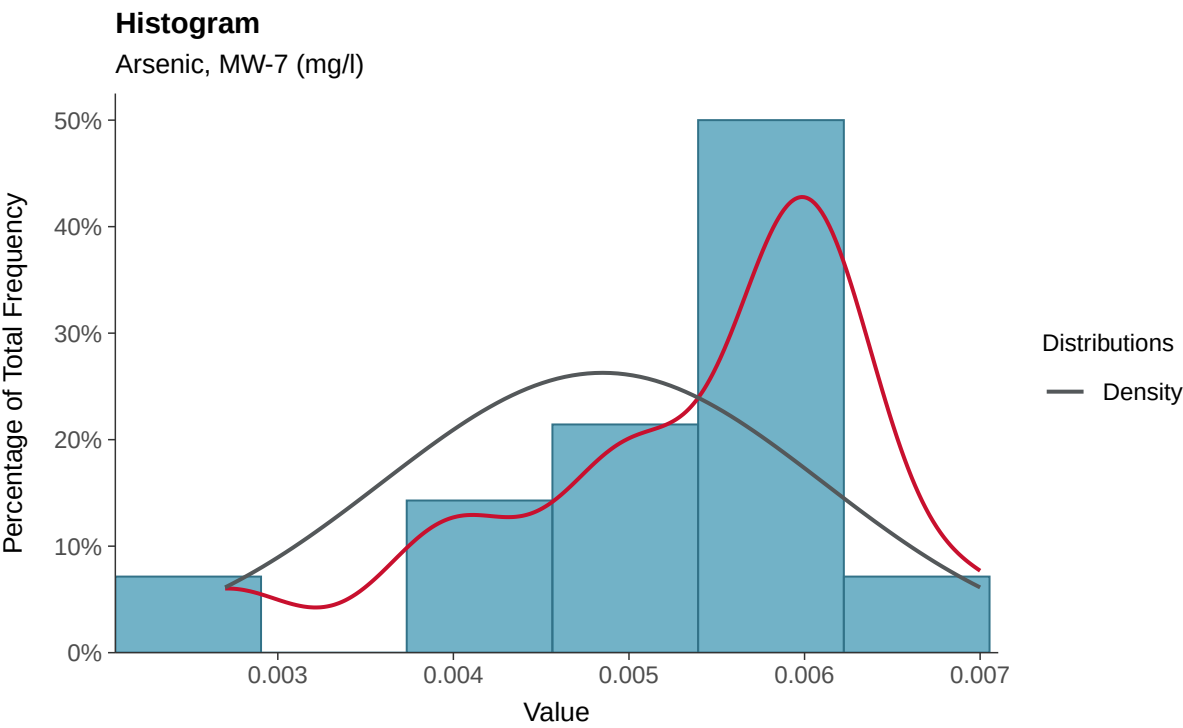
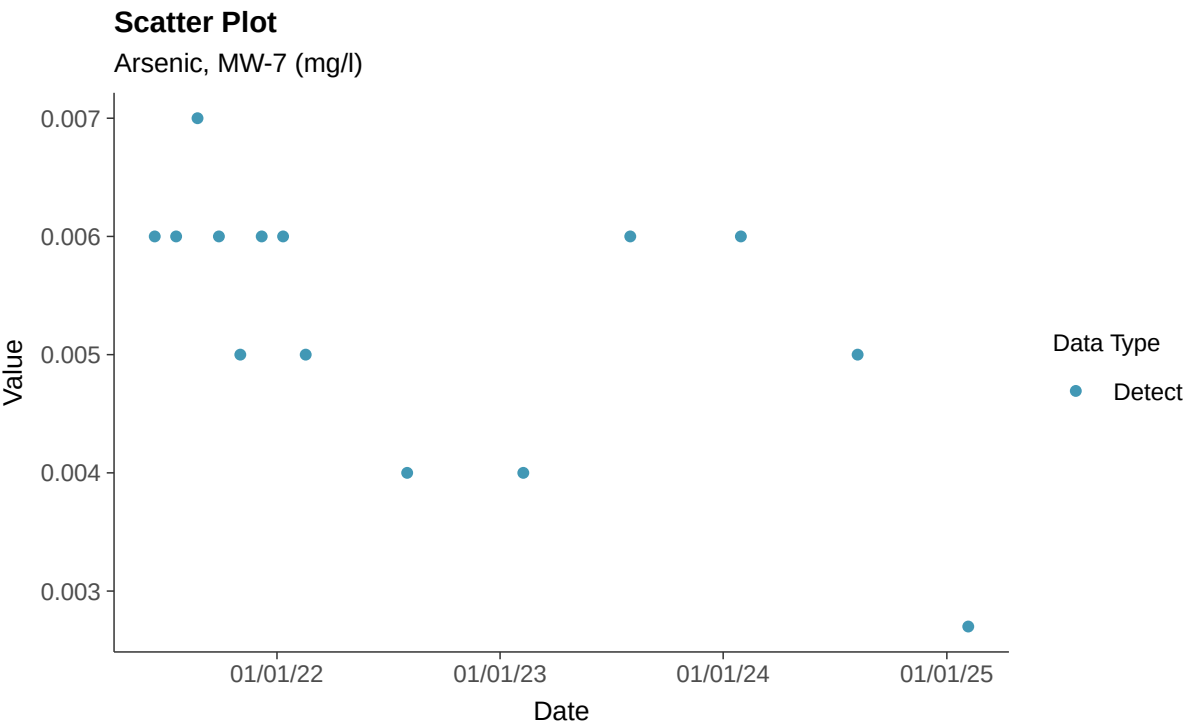


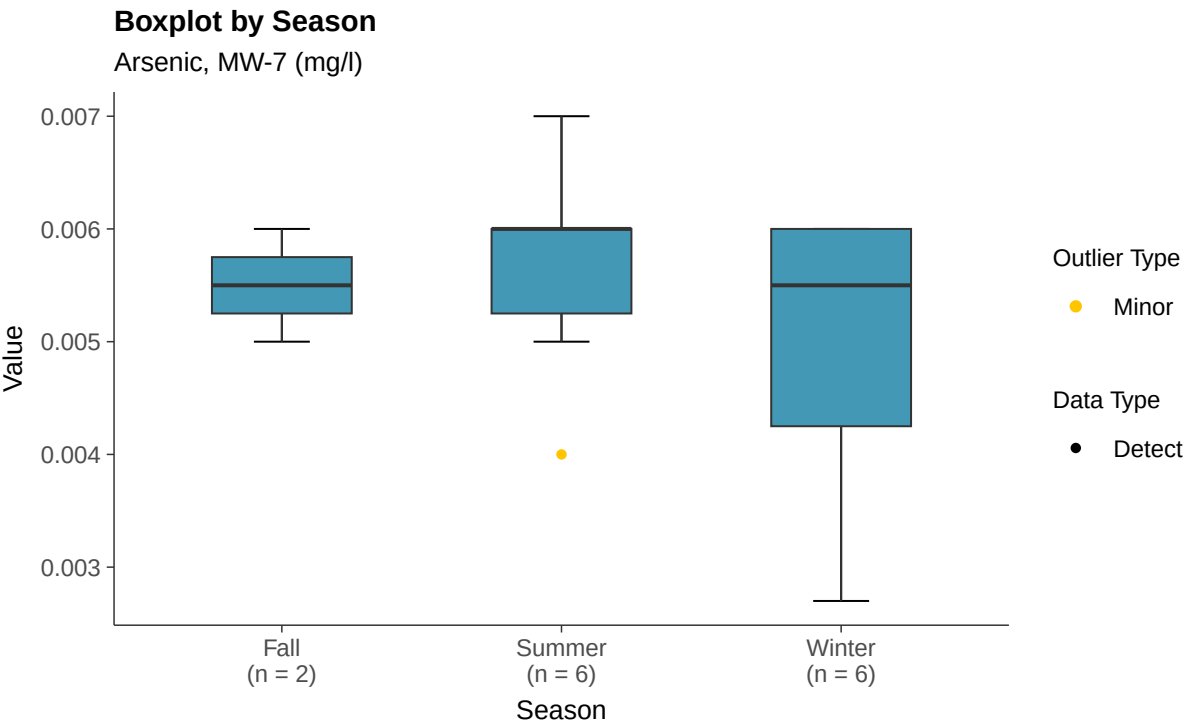
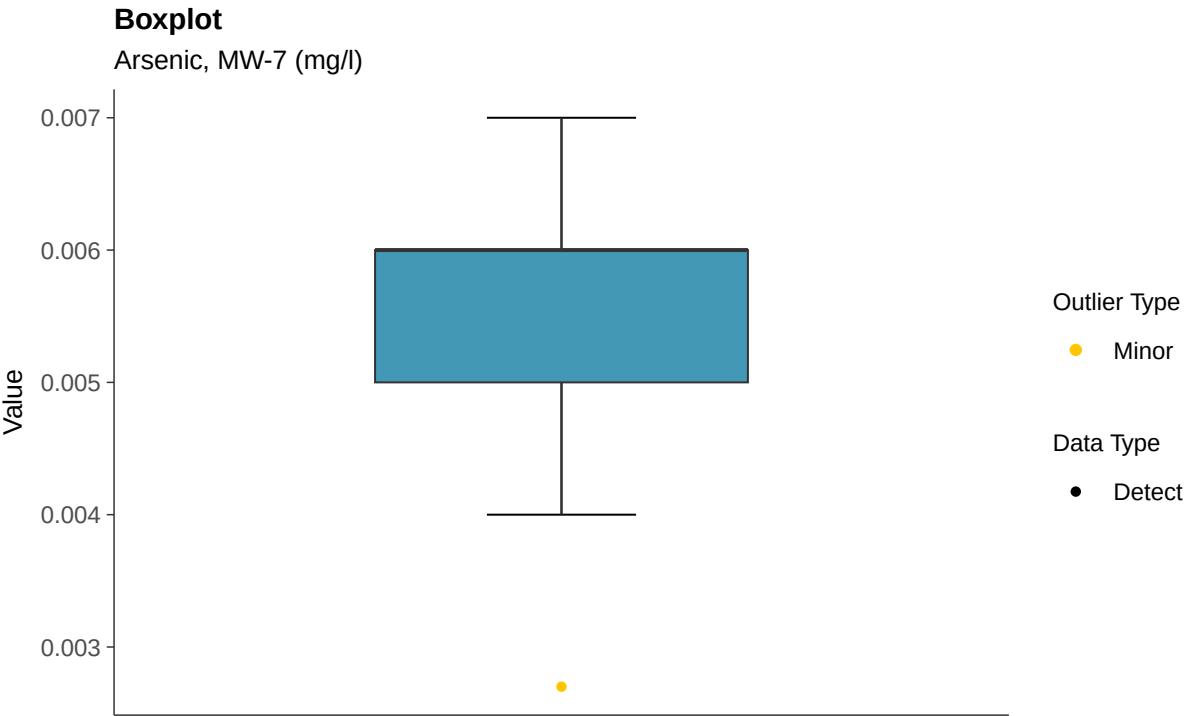


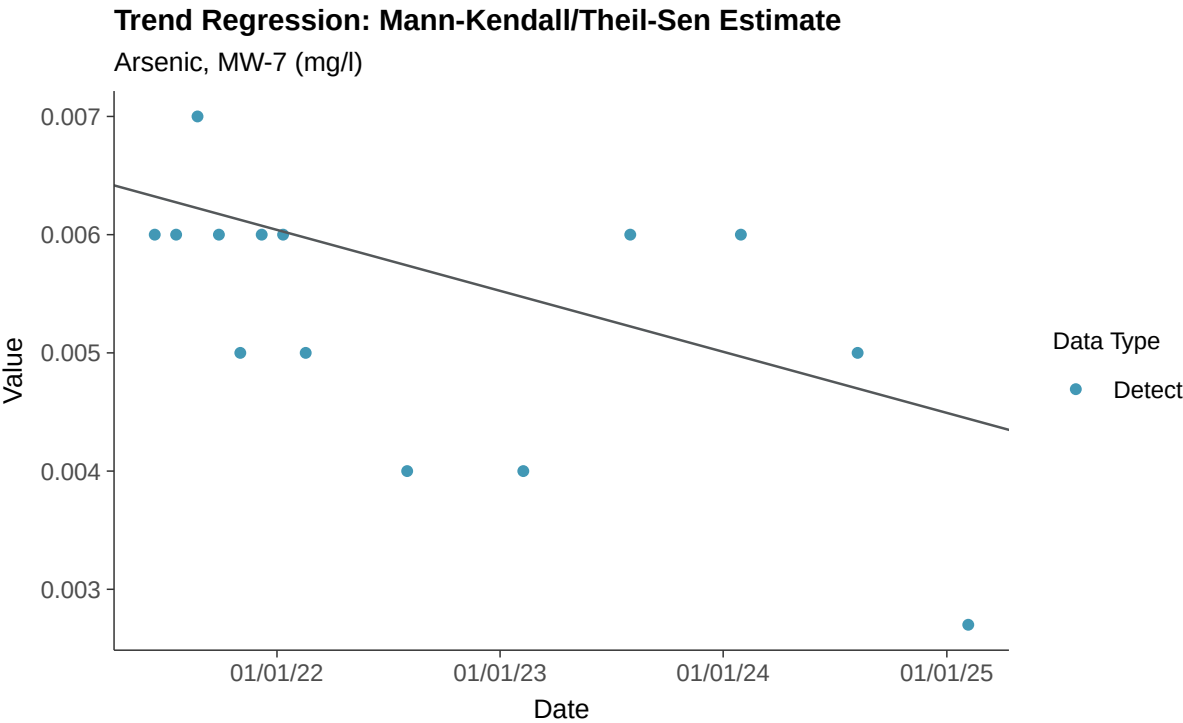
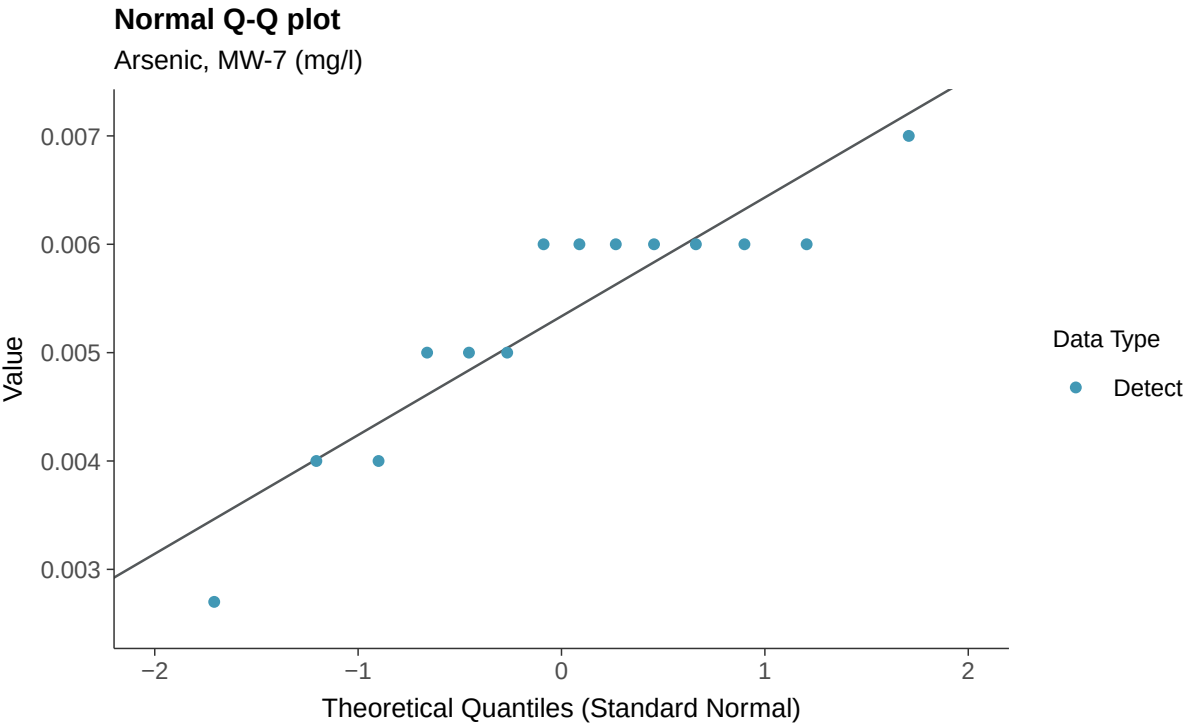


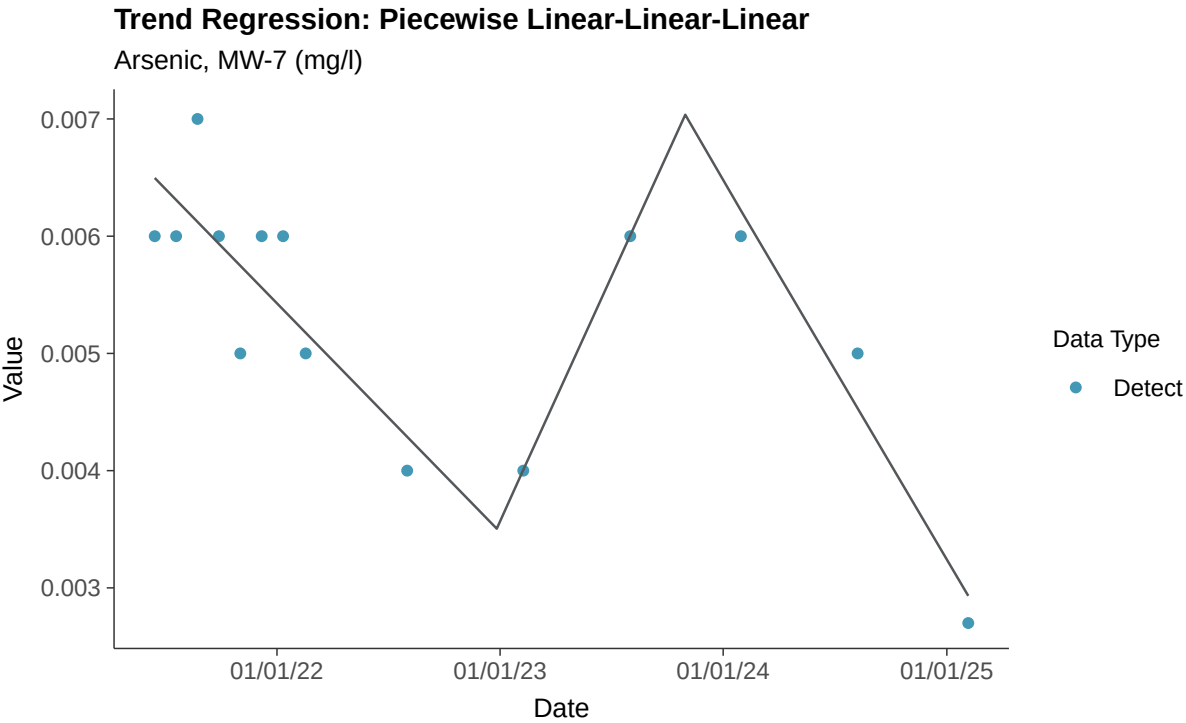
Appendix IV: Arsenic, MW-7

ID: 15_3_102





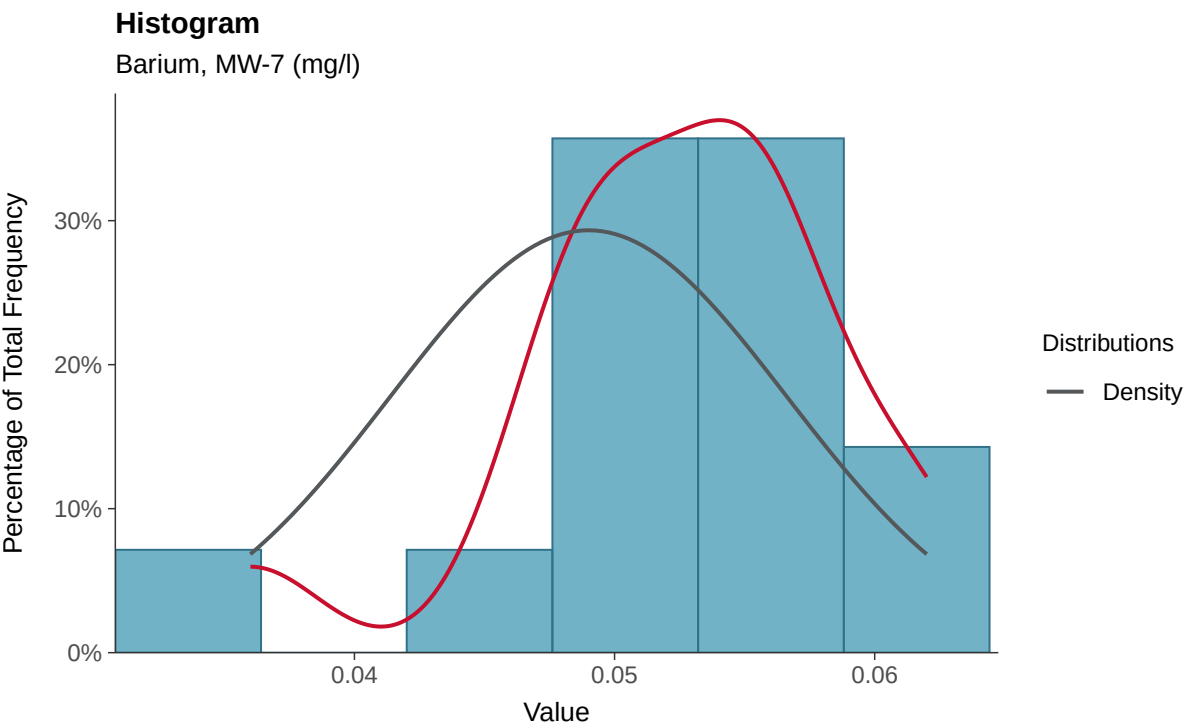
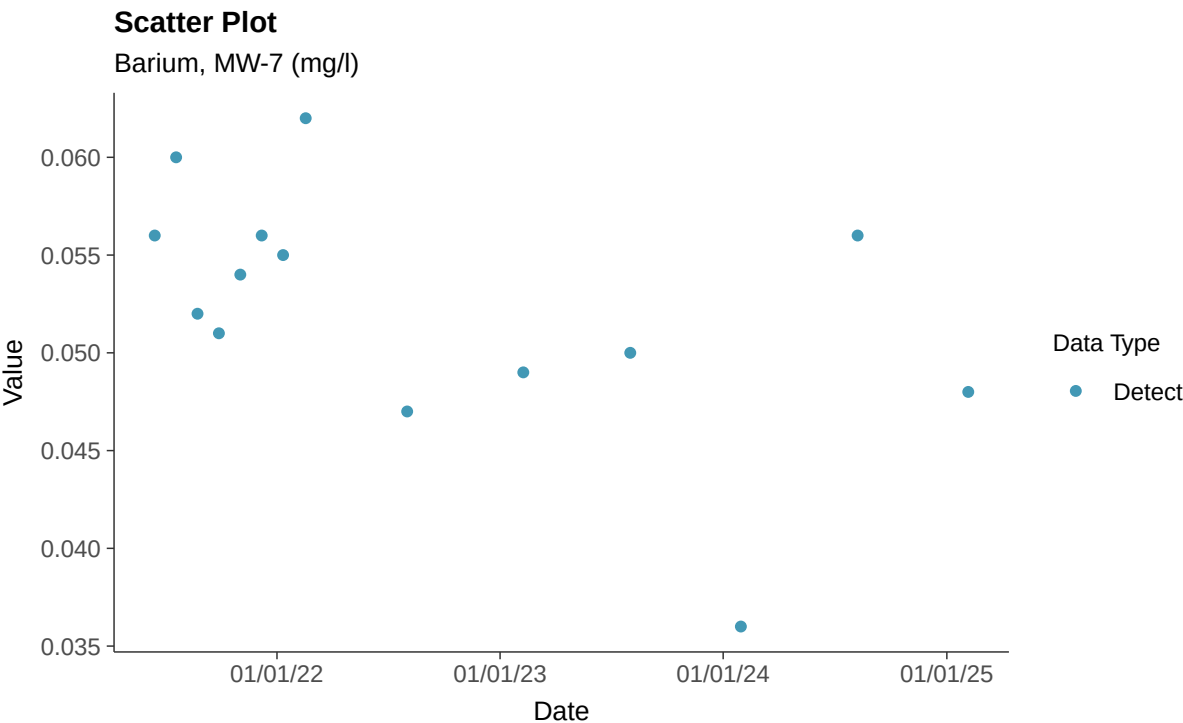


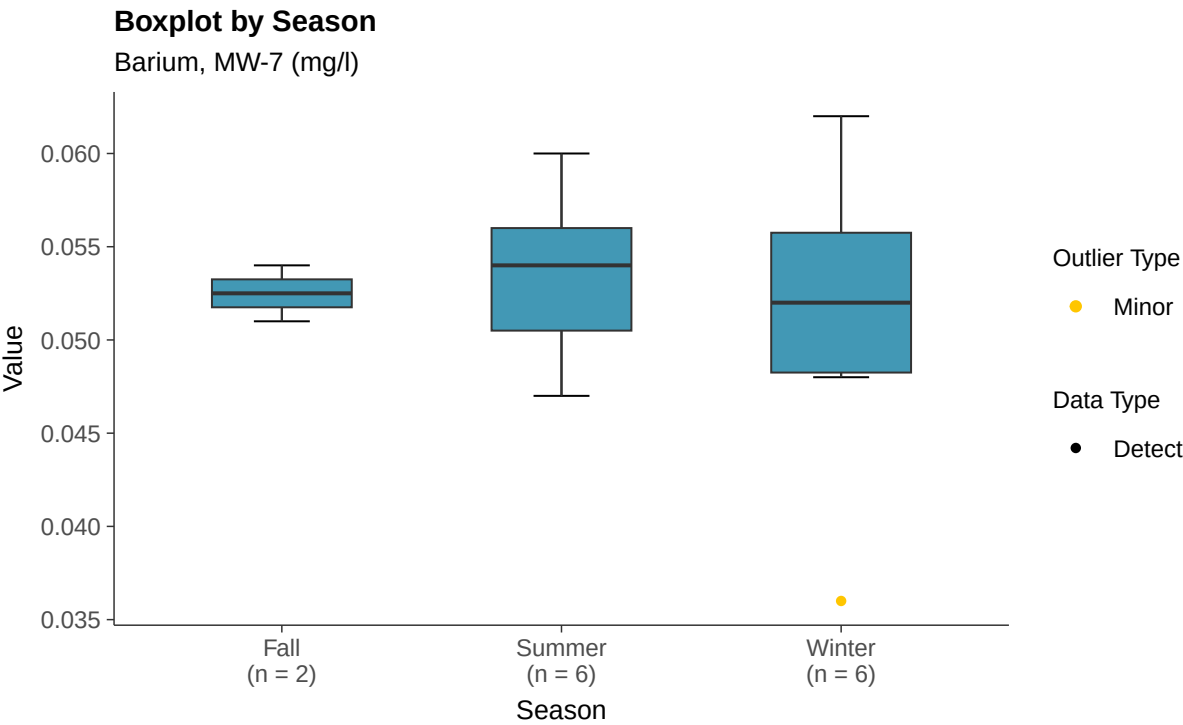
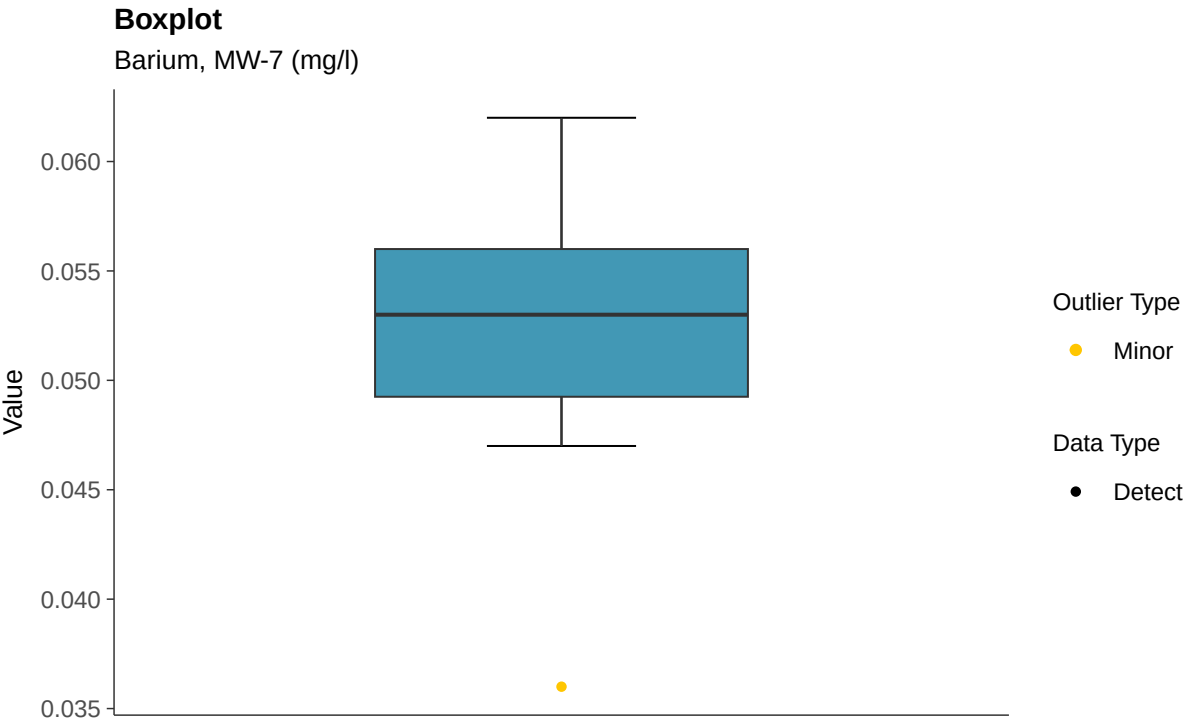


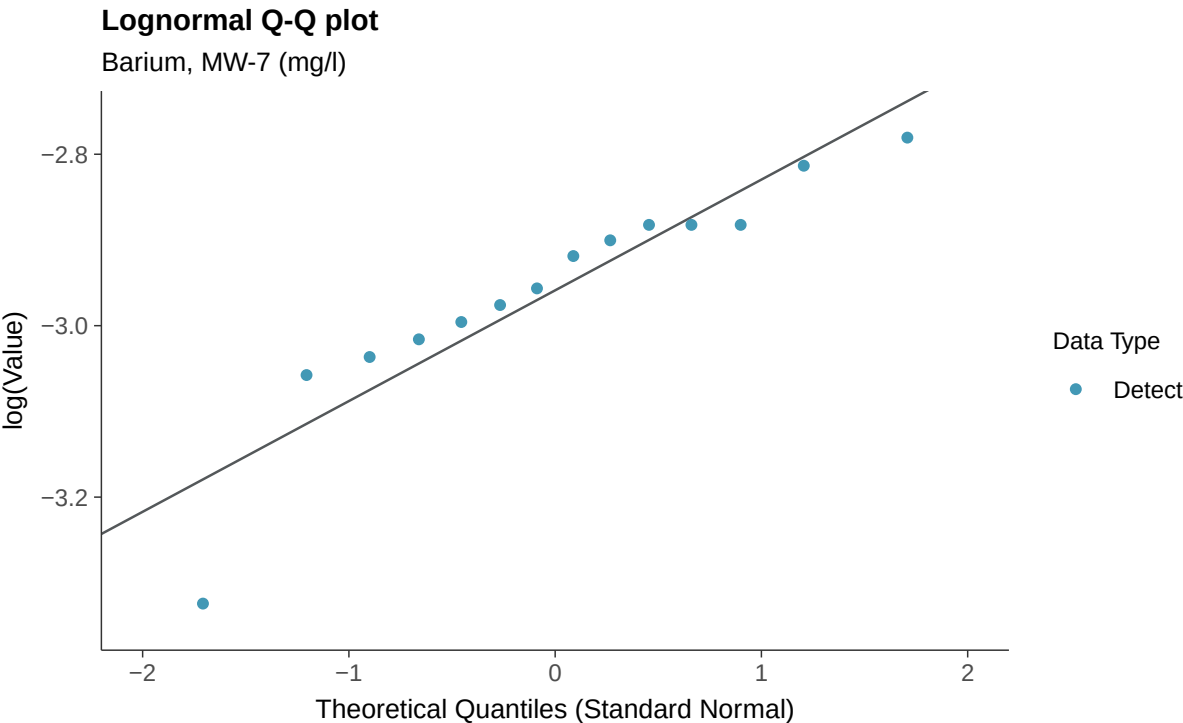
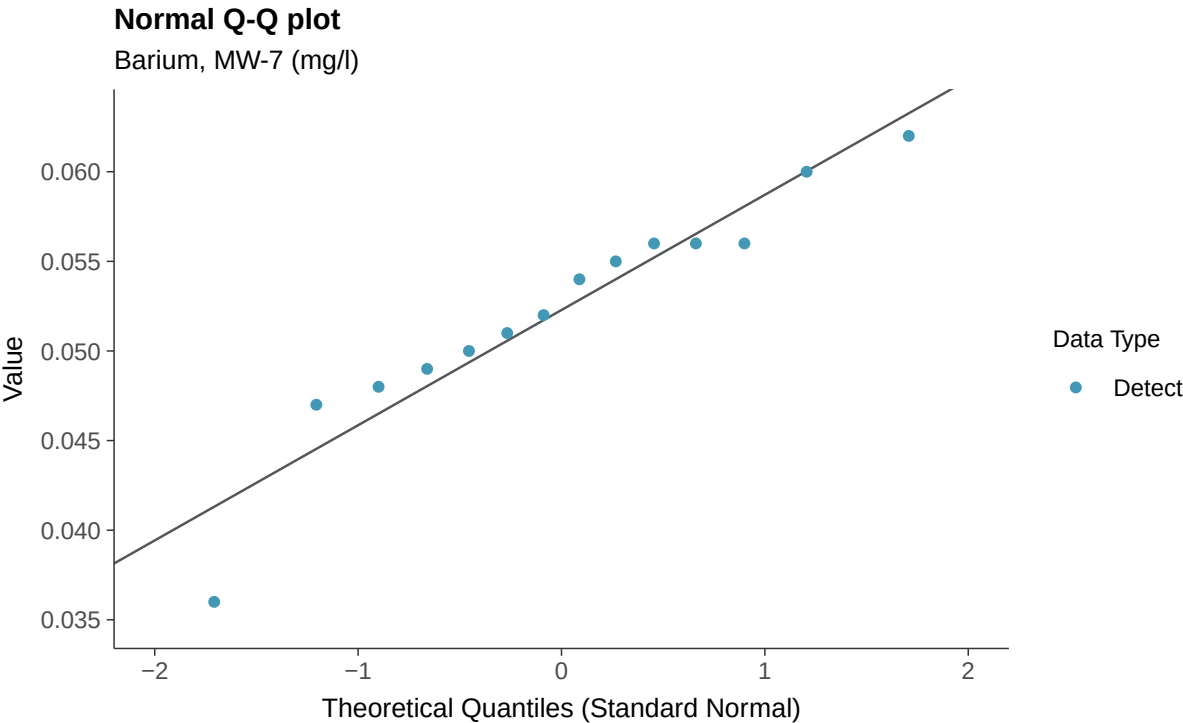


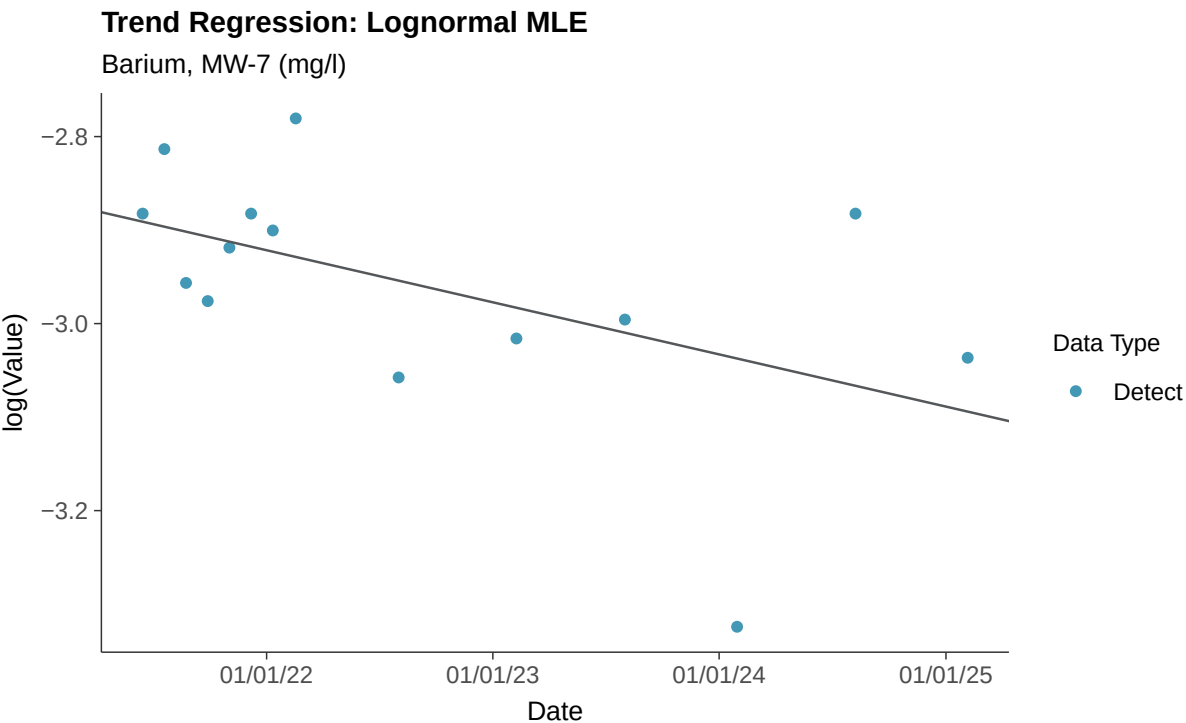
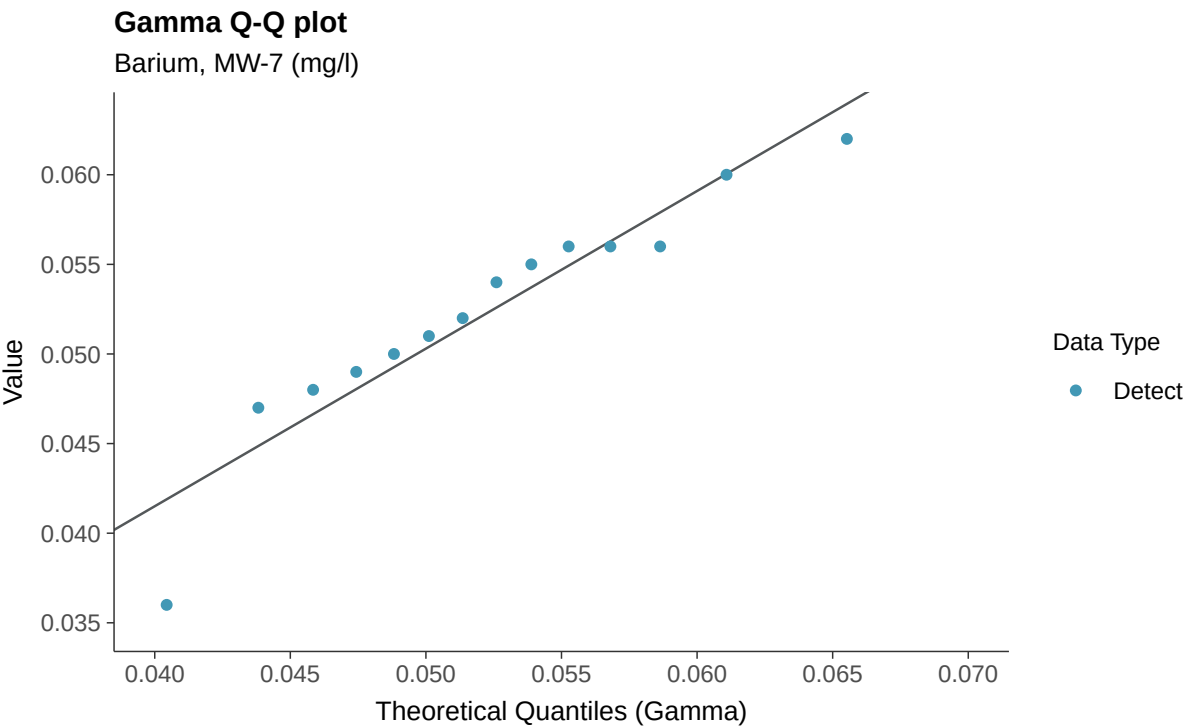
Appendix IV: Barium, MW-7

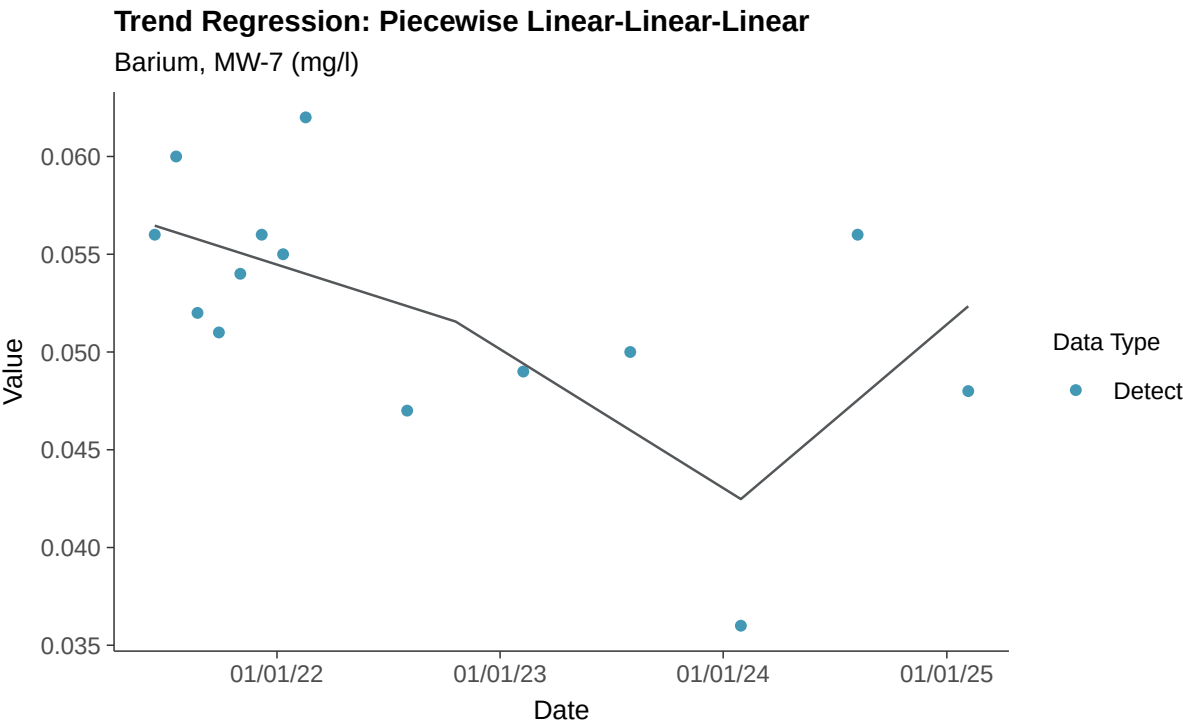
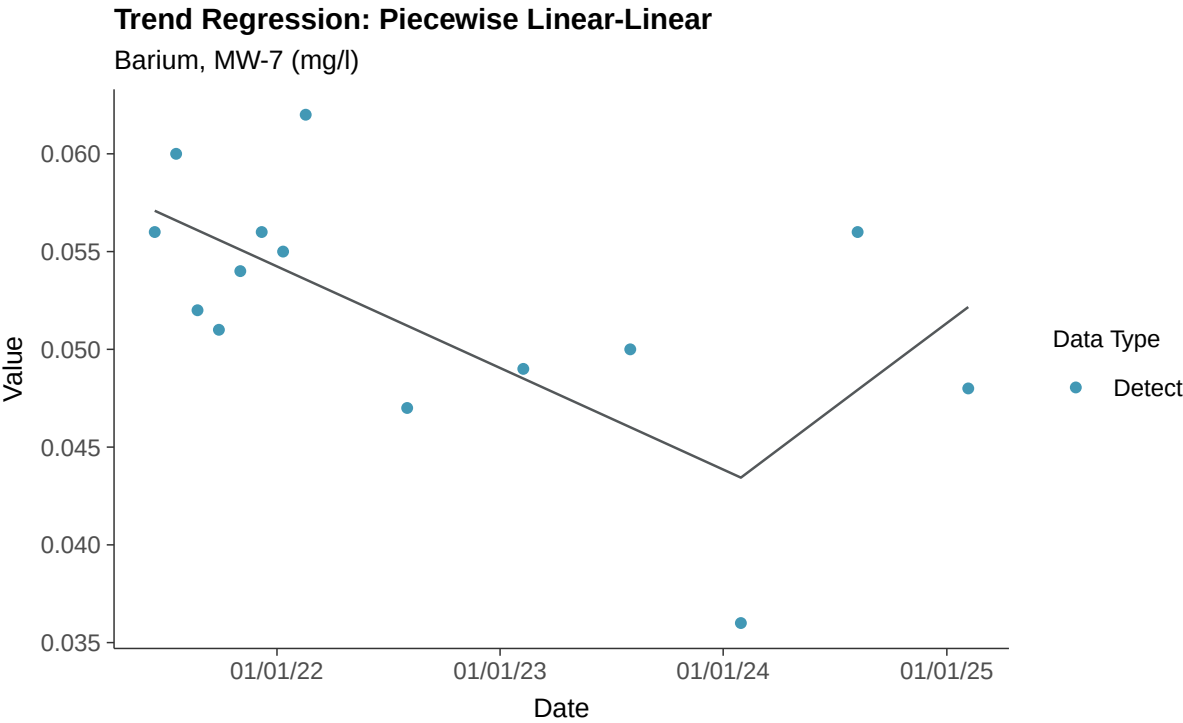
ID: 15_3_103







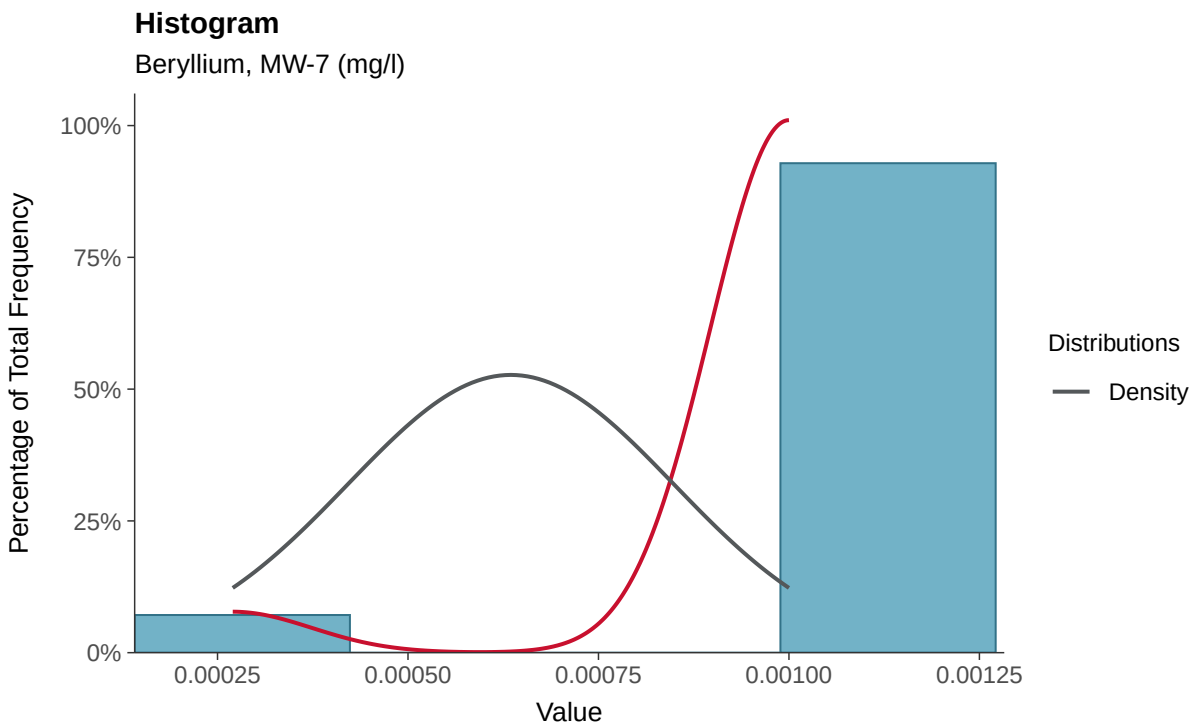
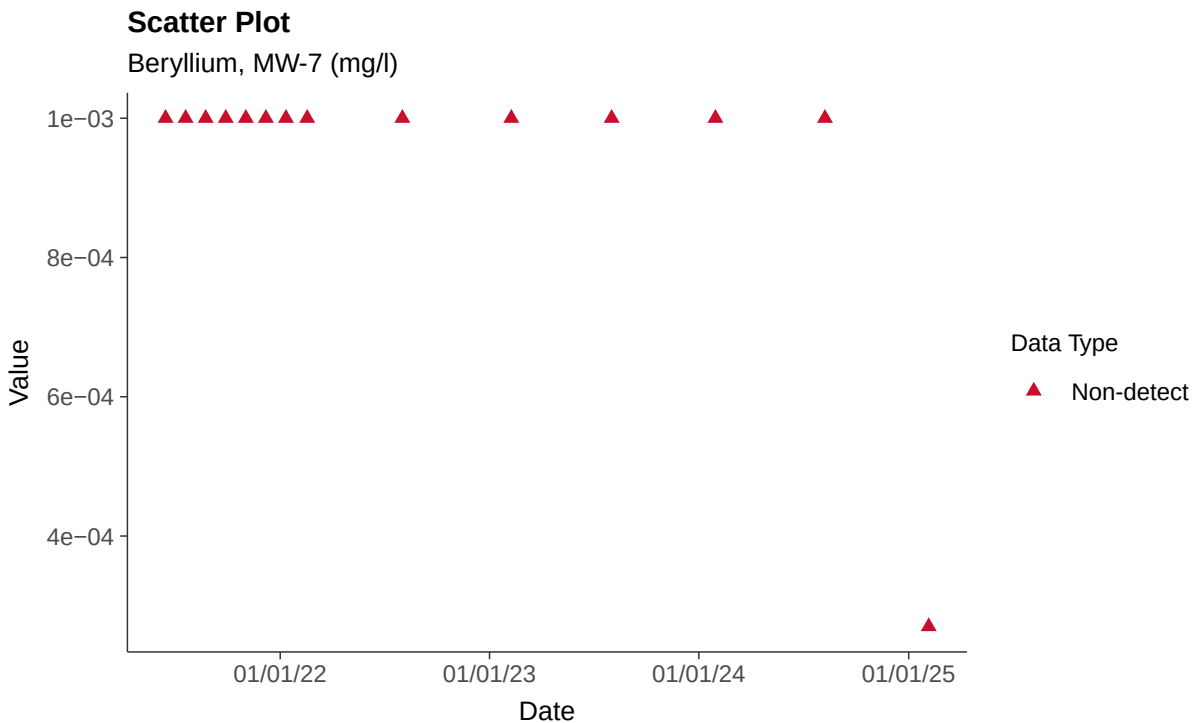


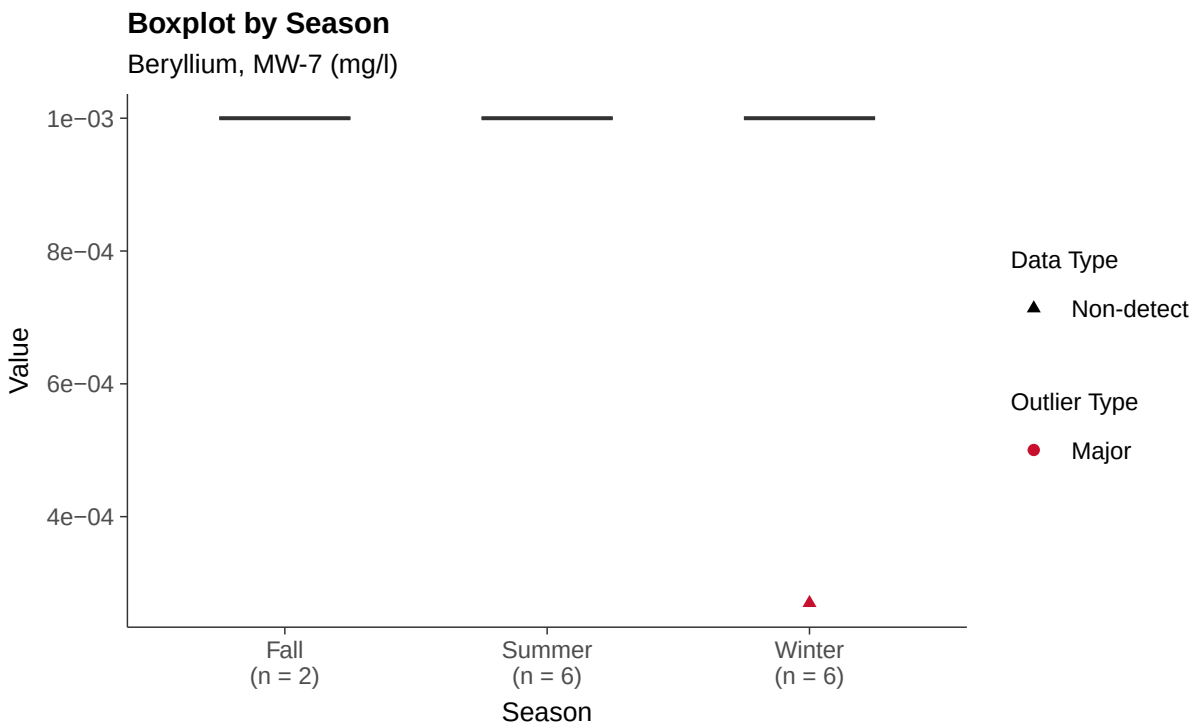
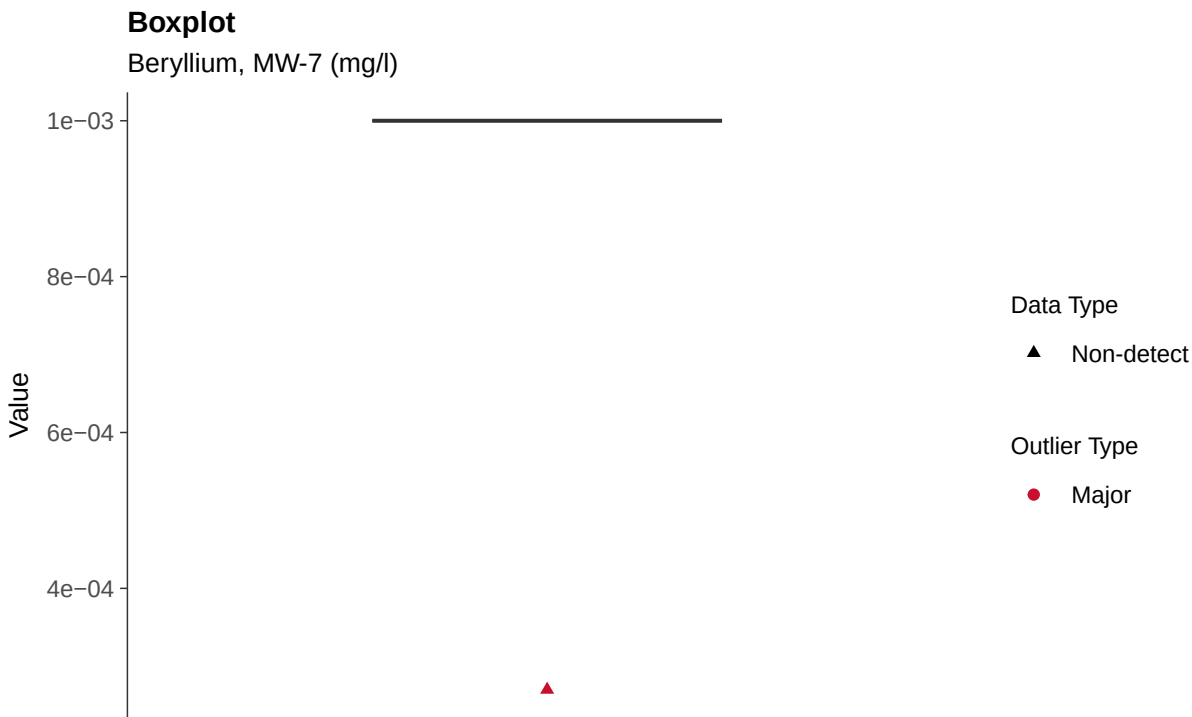




Appendix IV: Beryllium, MW-7

ID: 15_3_104

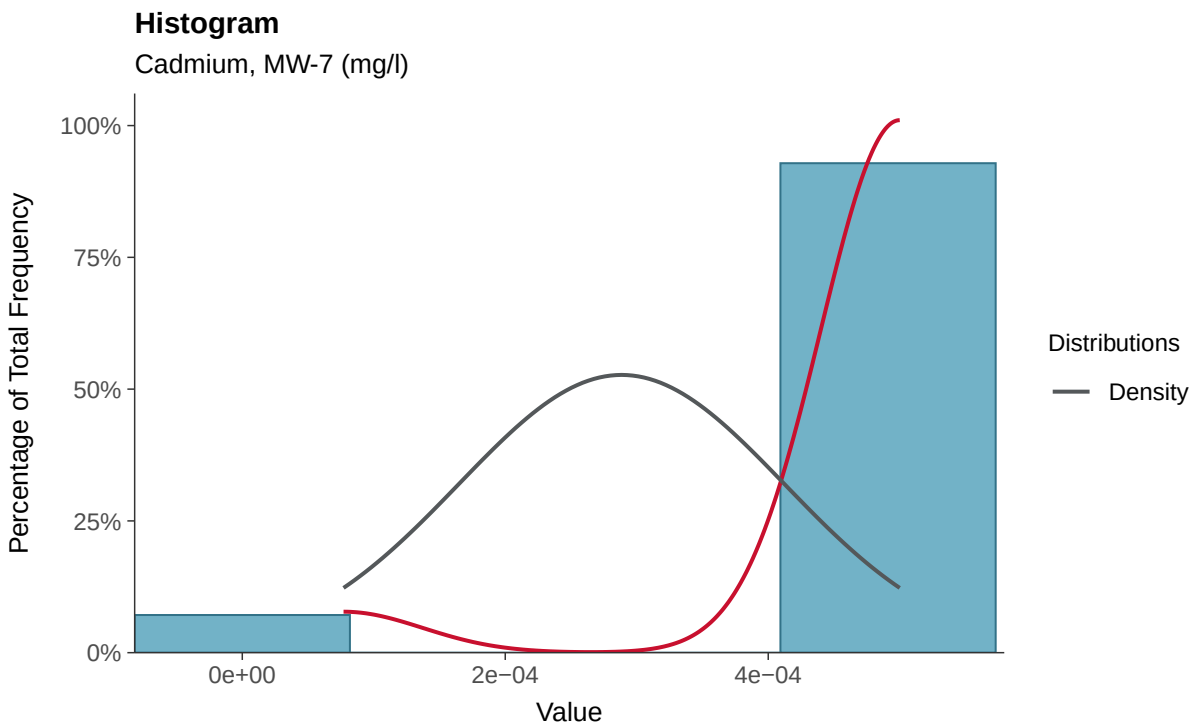
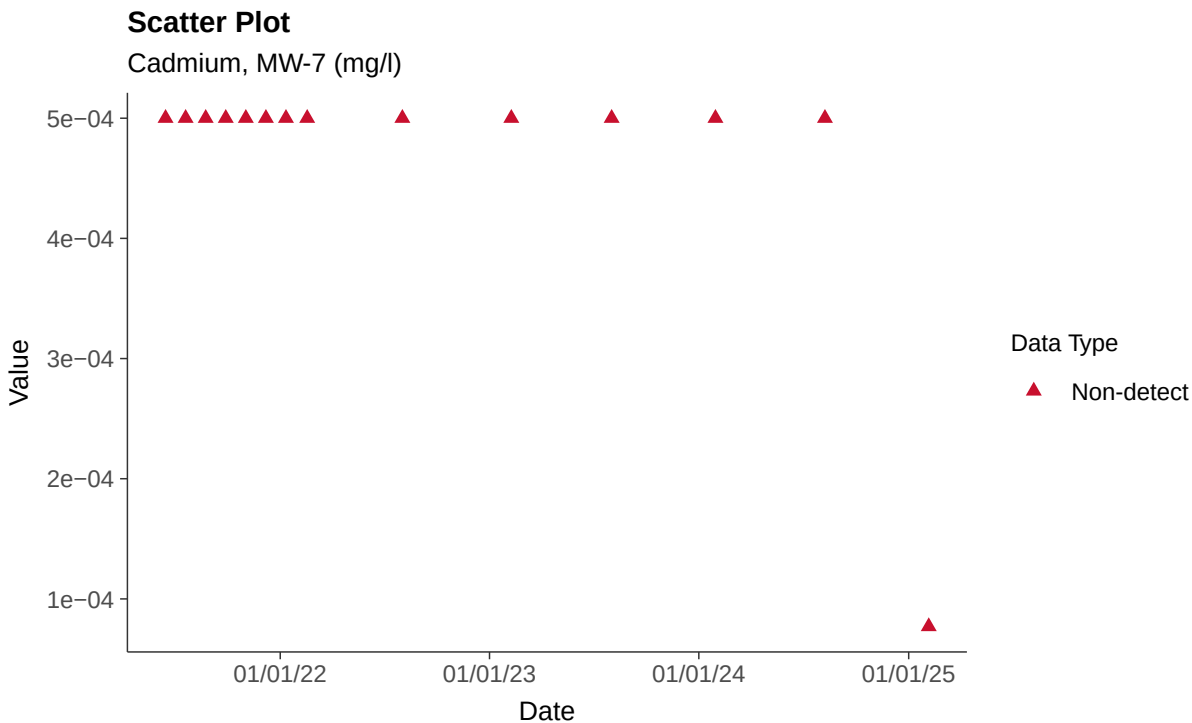


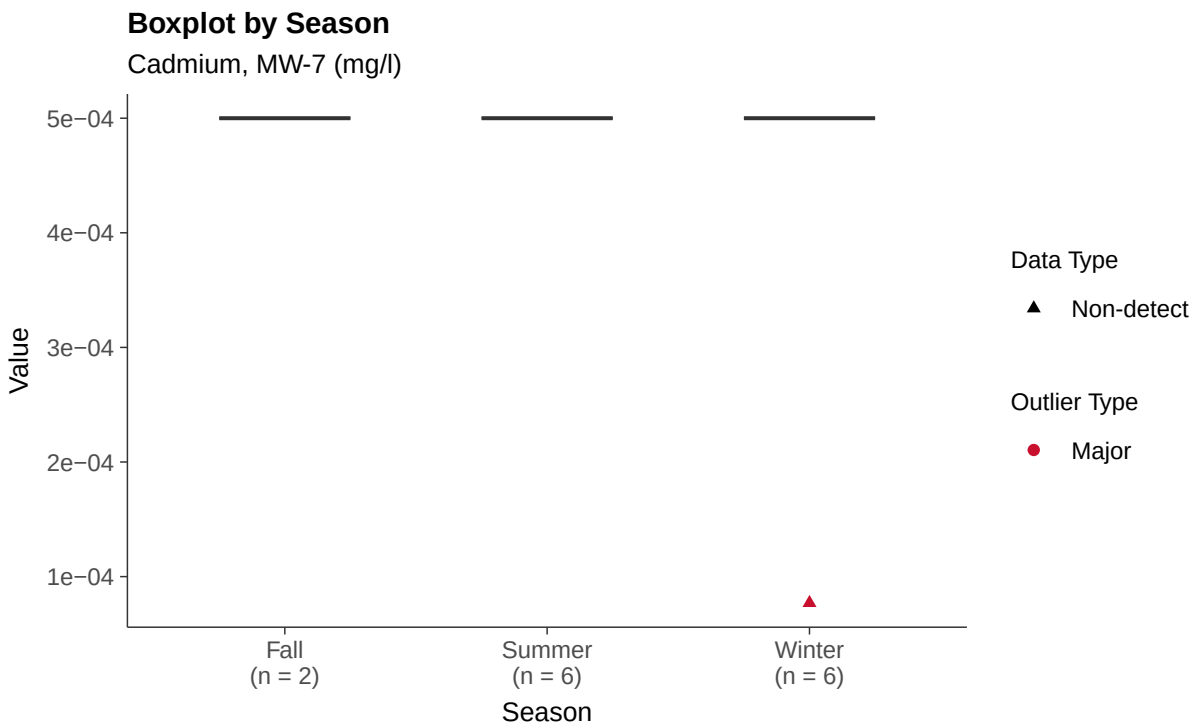
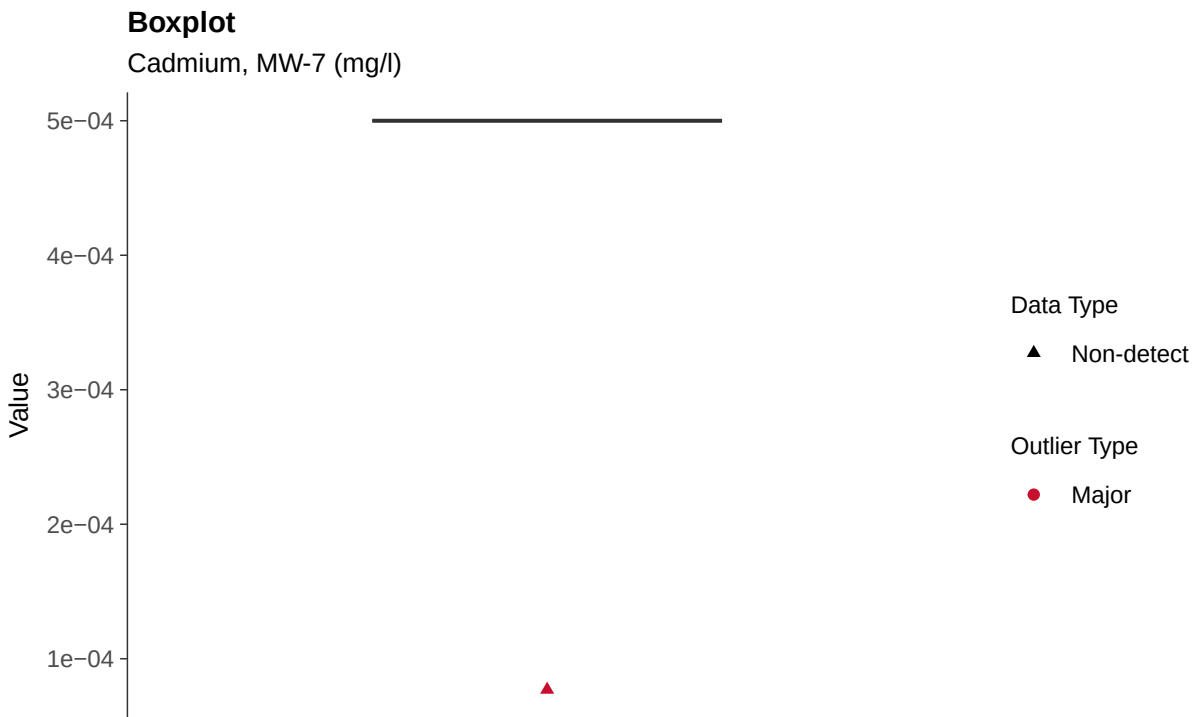




Appendix IV: Cadmium, MW-7

ID: 15_3_106

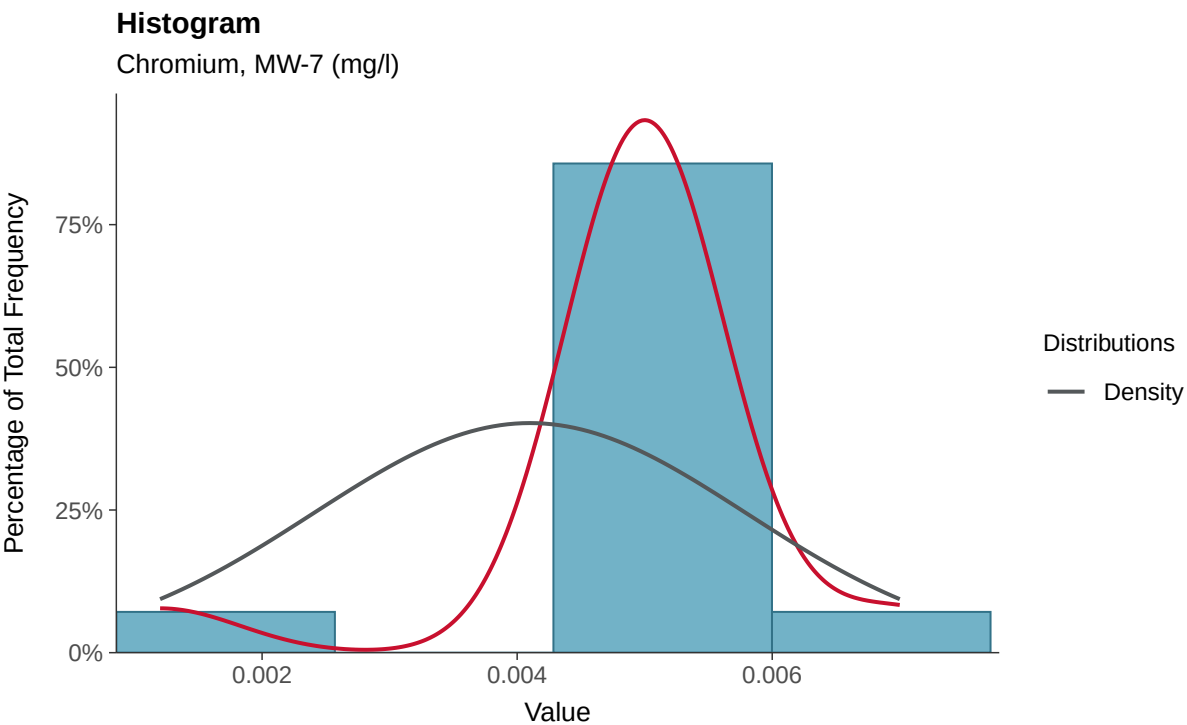
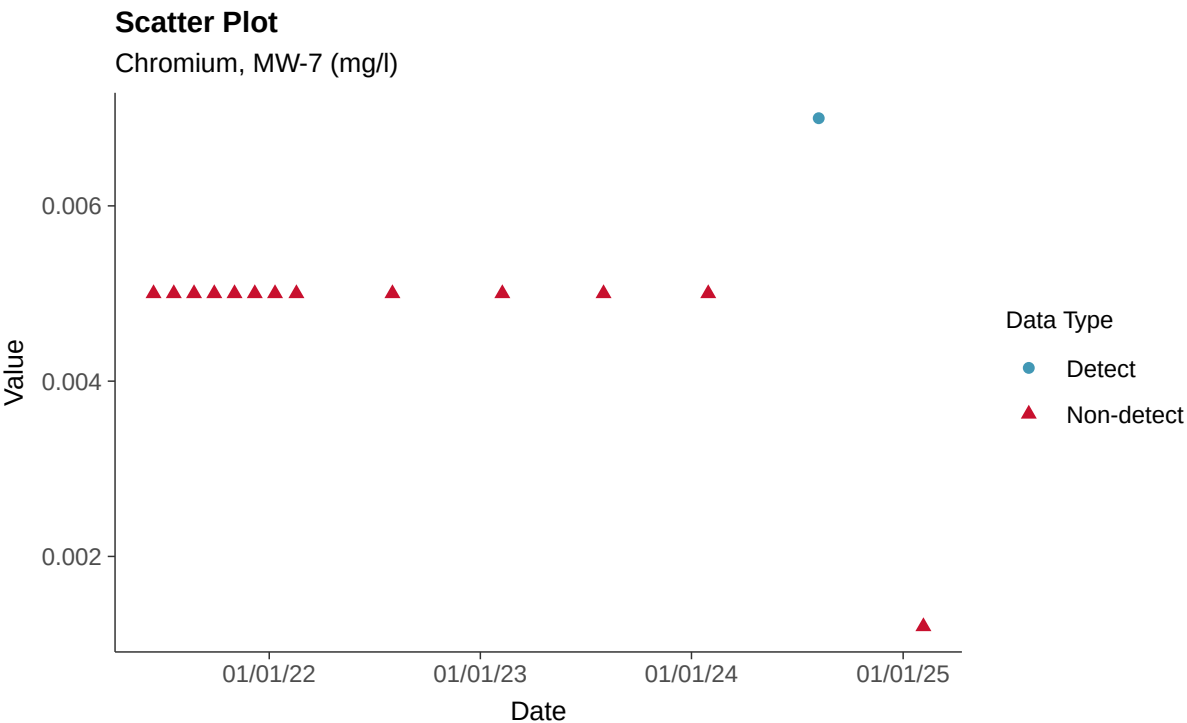


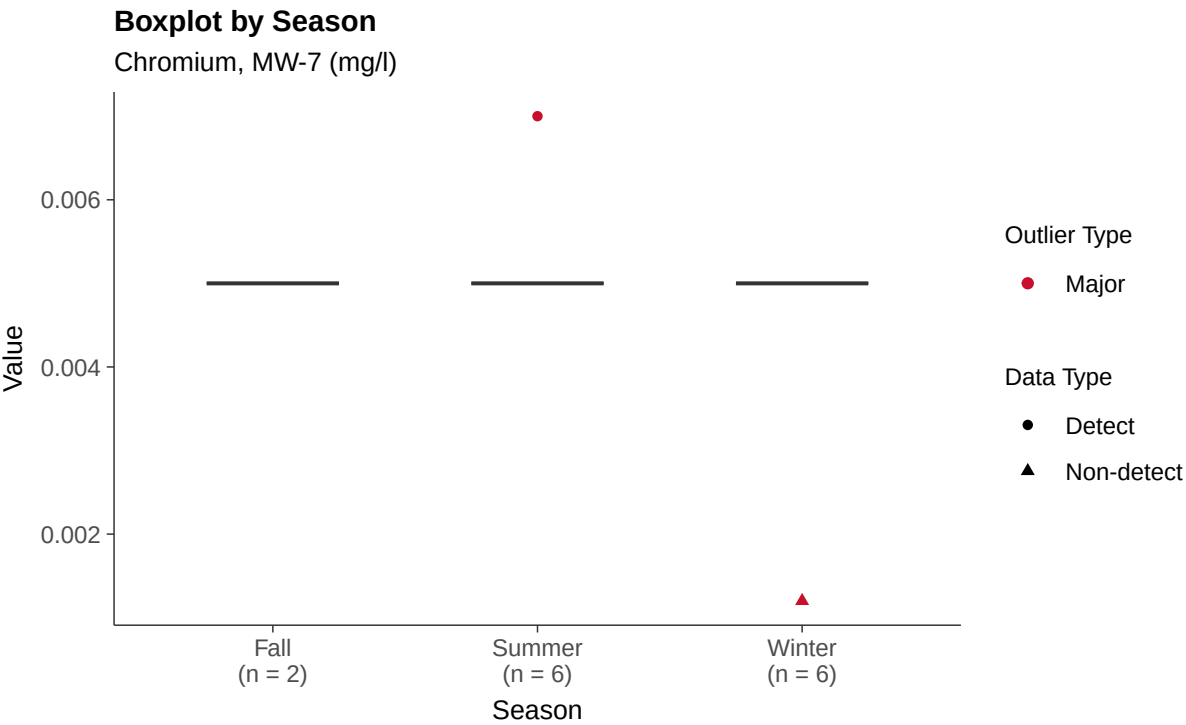
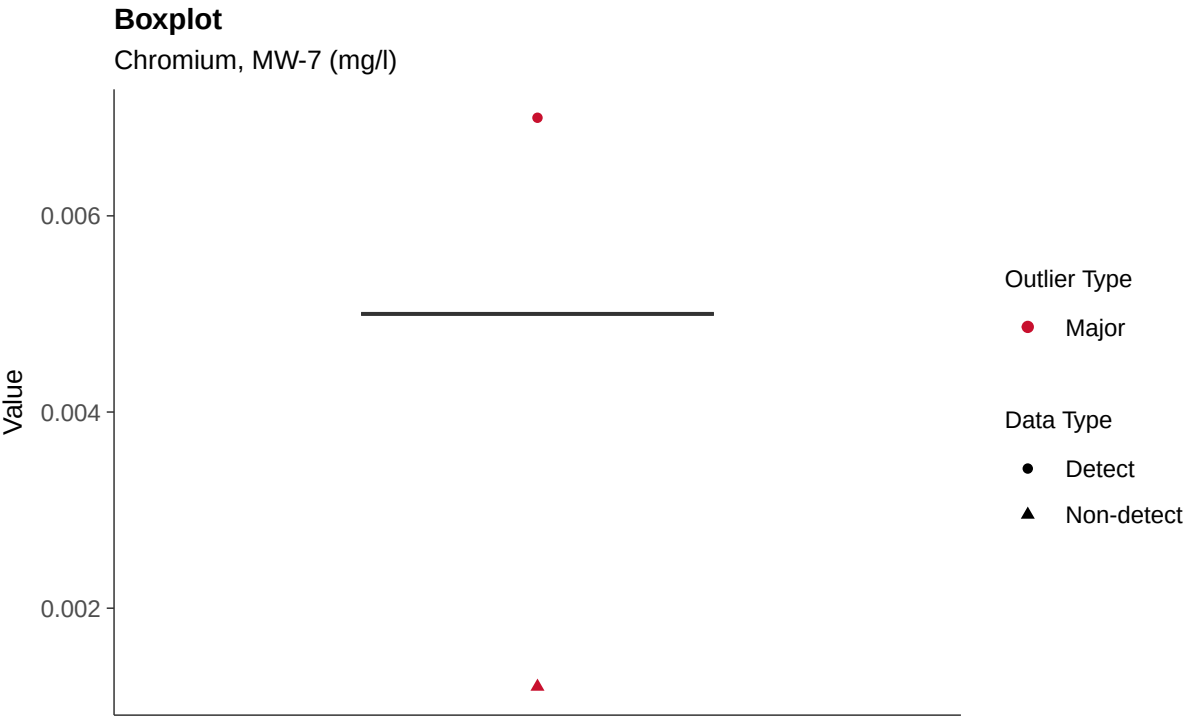




Appendix IV: Chromium, MW-7

ID: 15_3_109

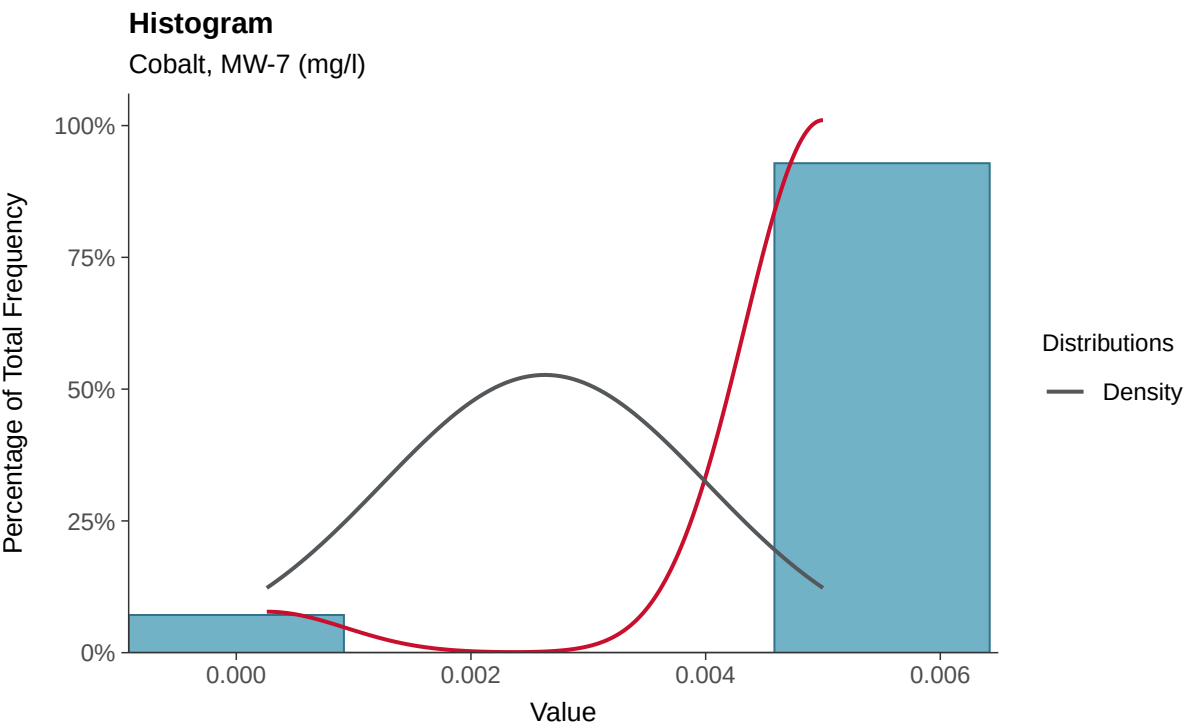
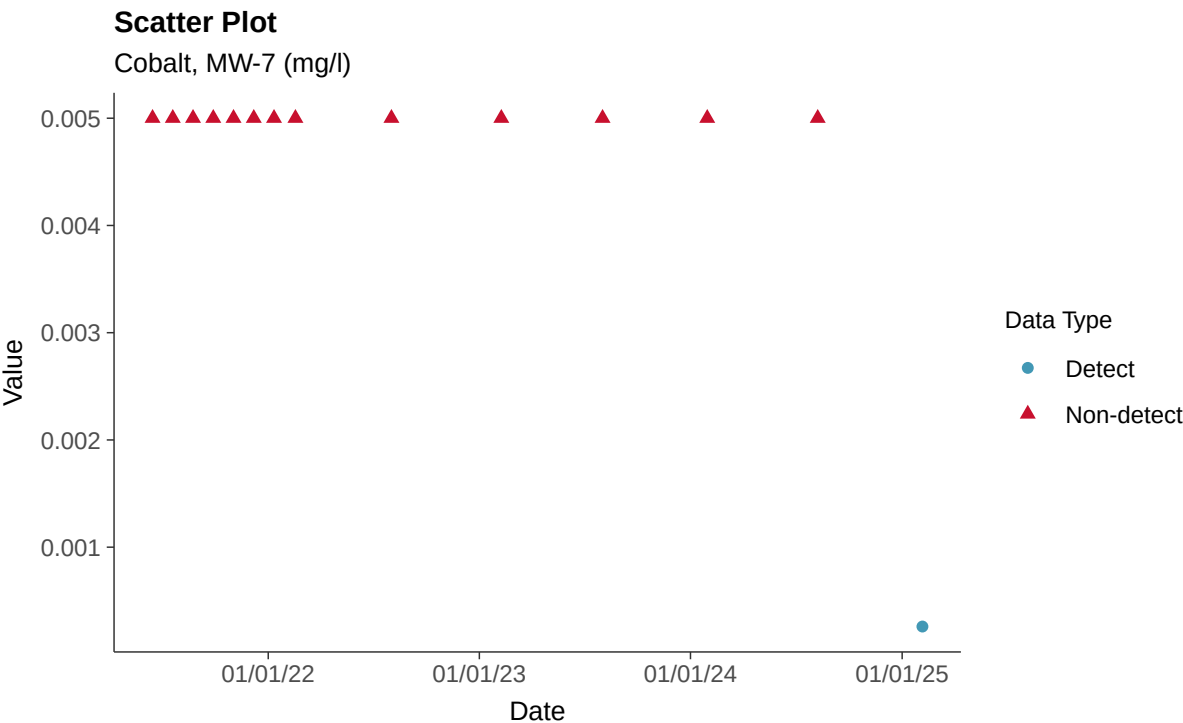


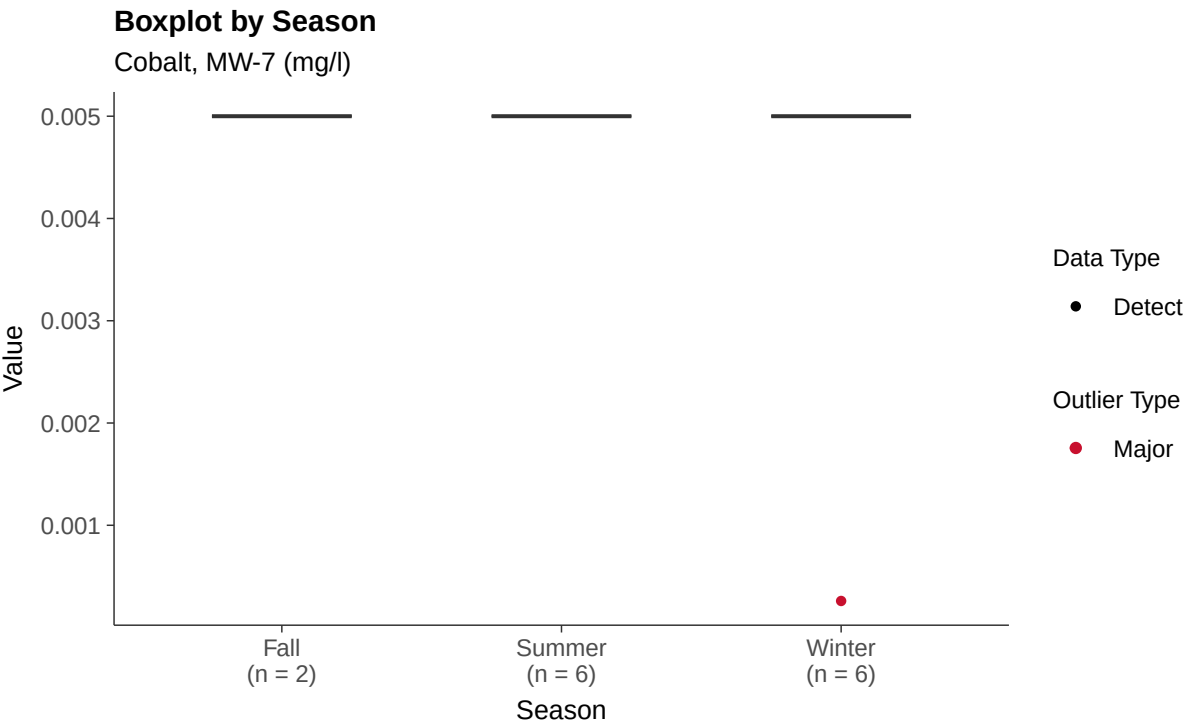
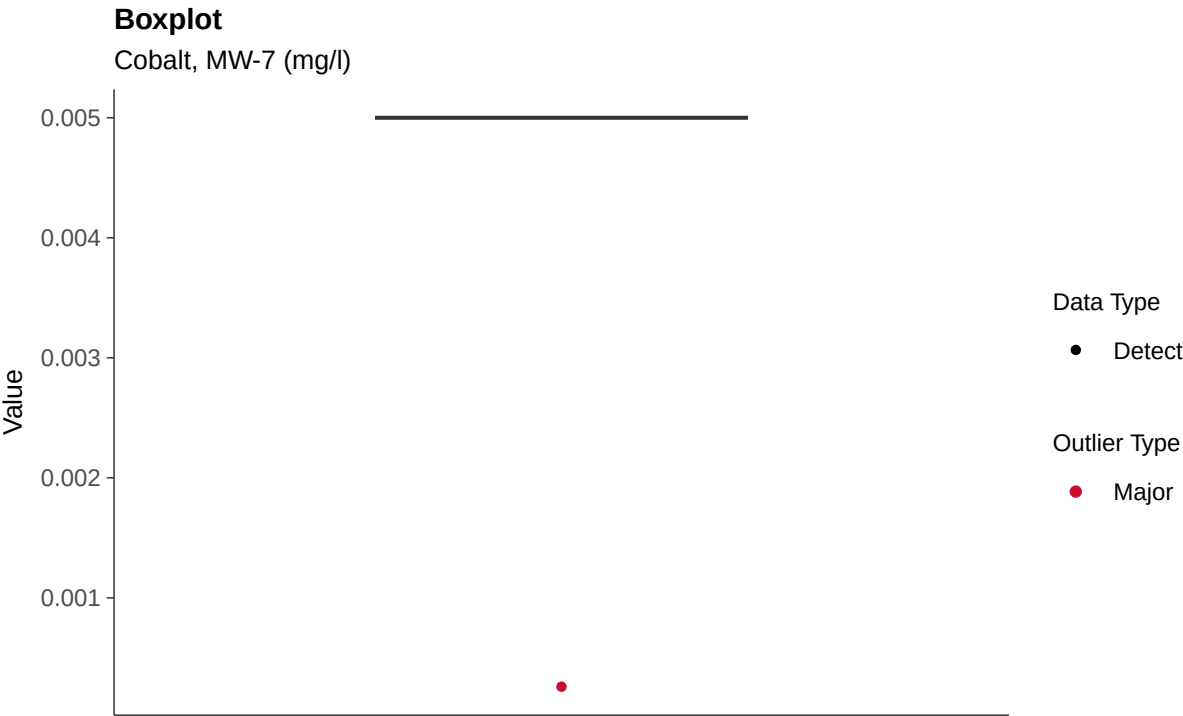


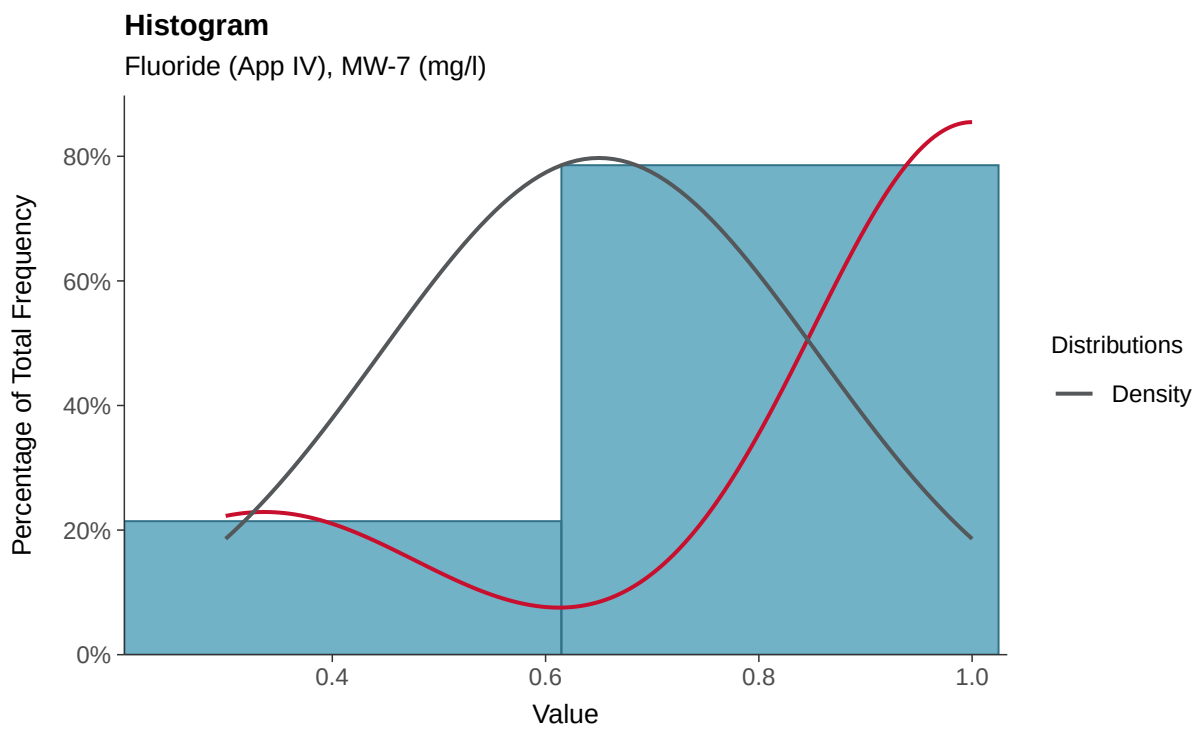


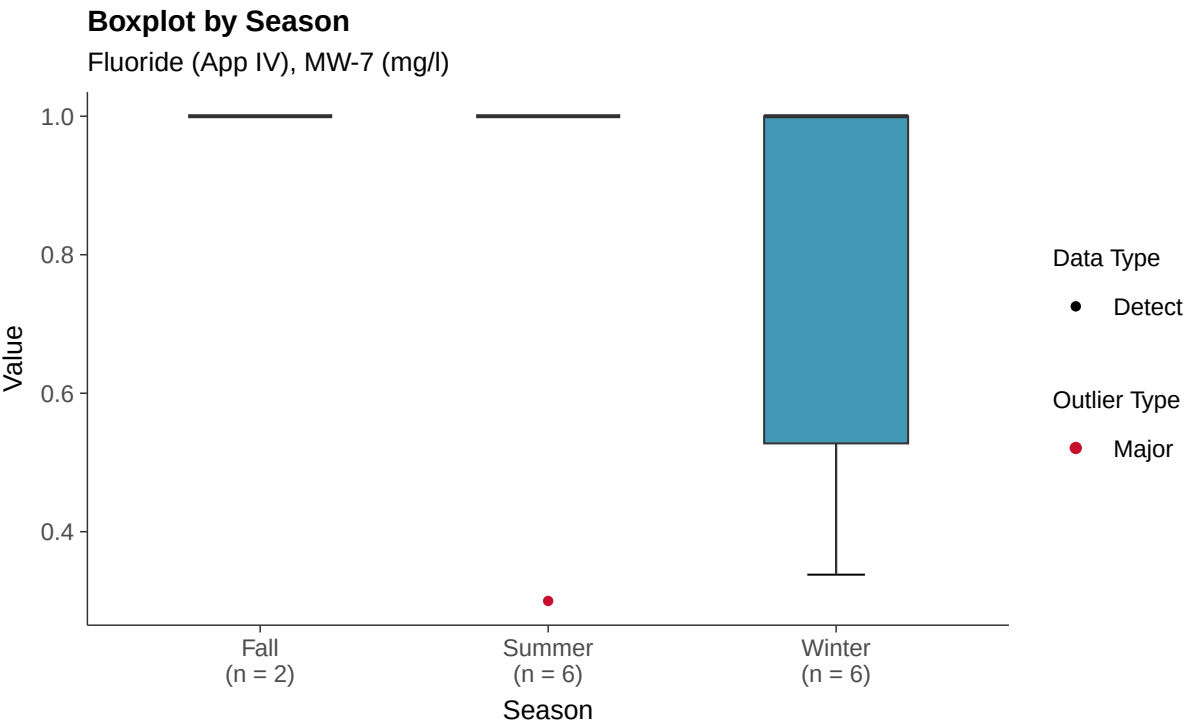
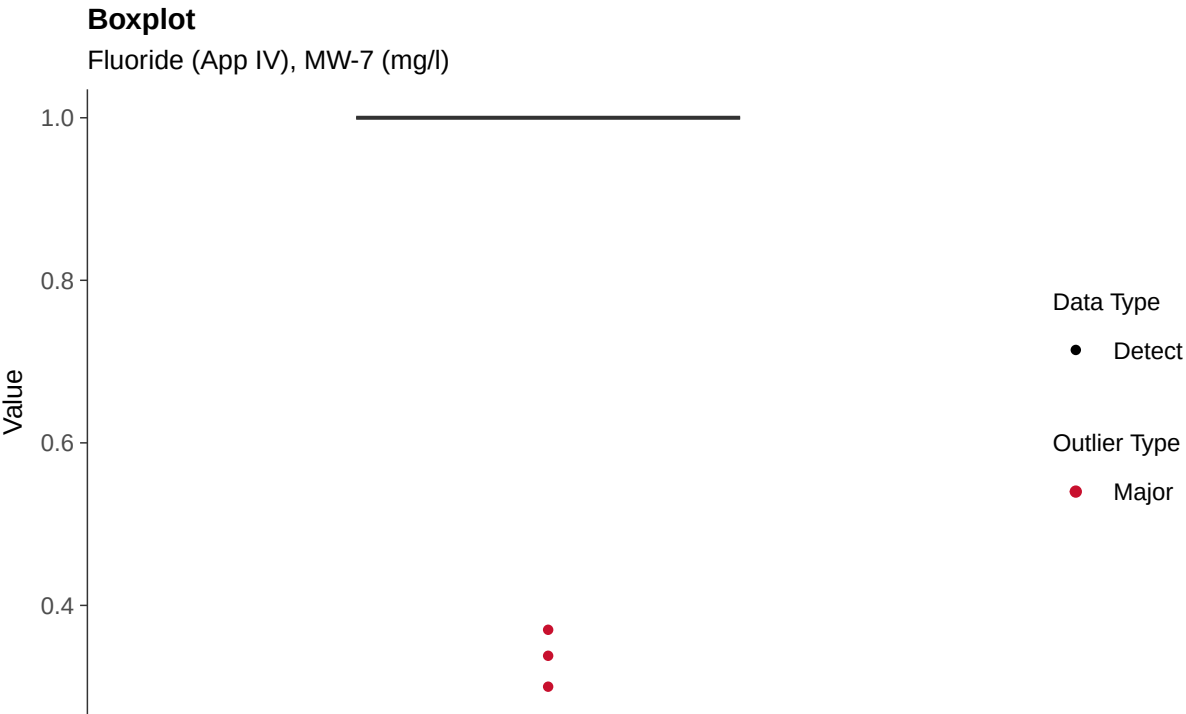
Appendix IV: Cobalt, MW-7

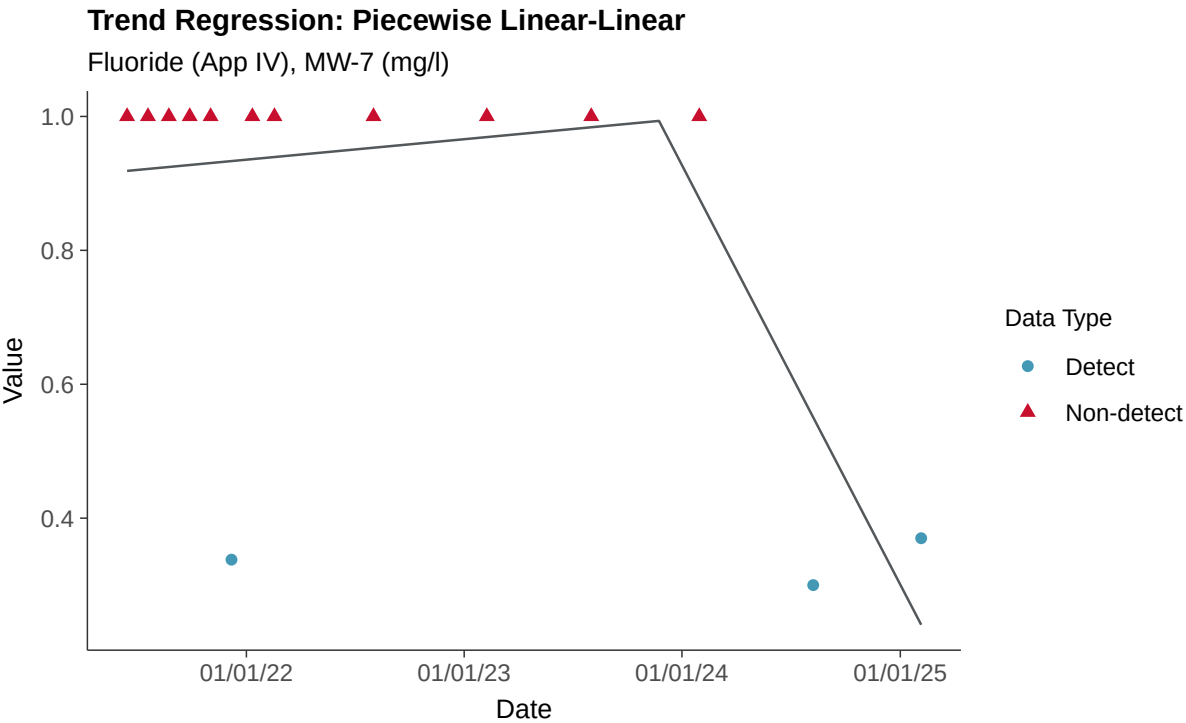
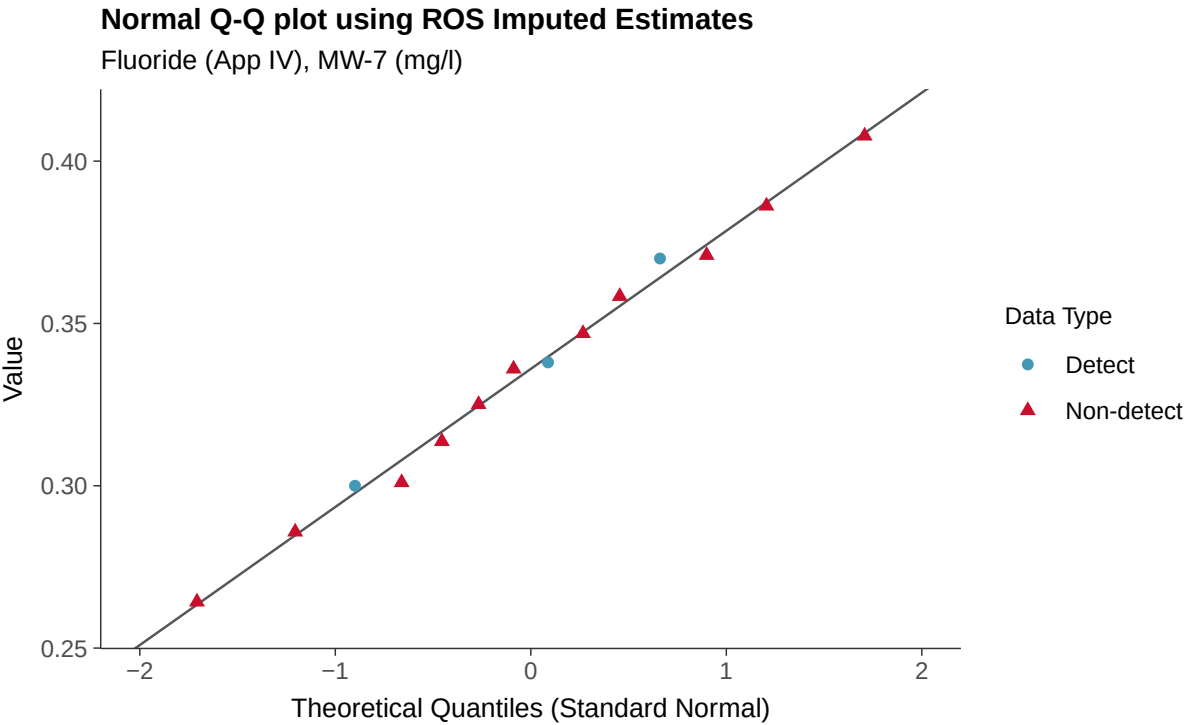
ID: 15_3_110

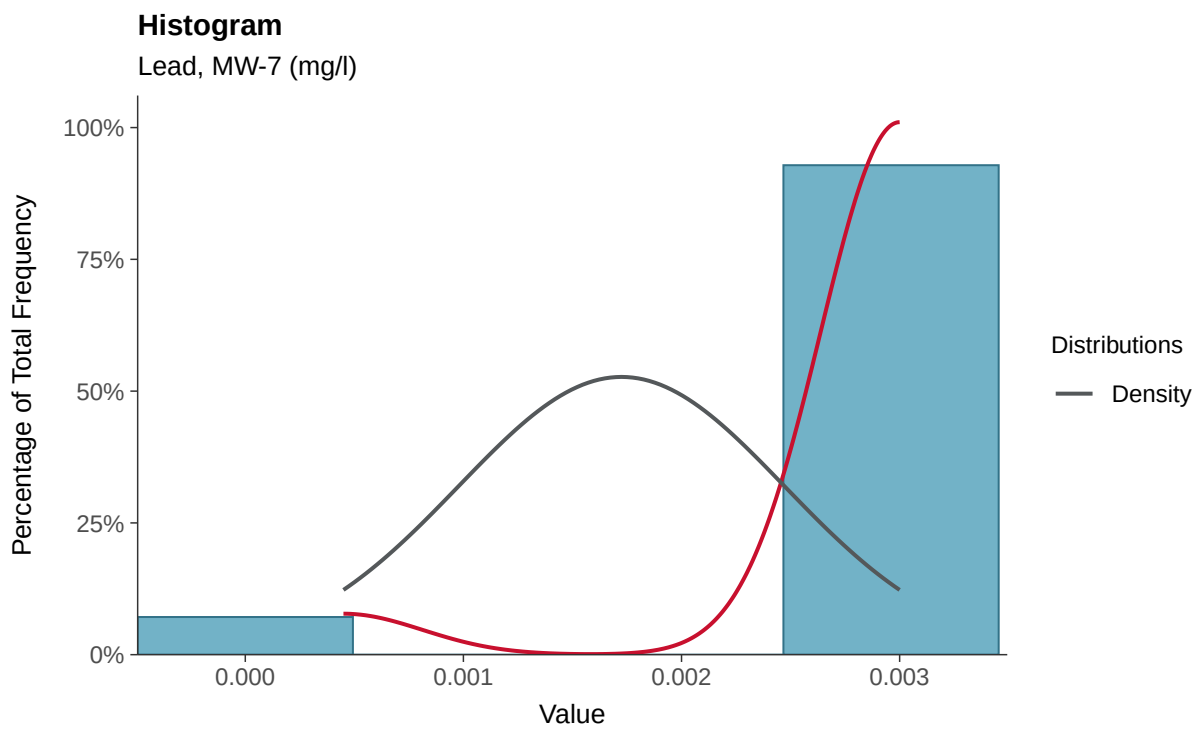


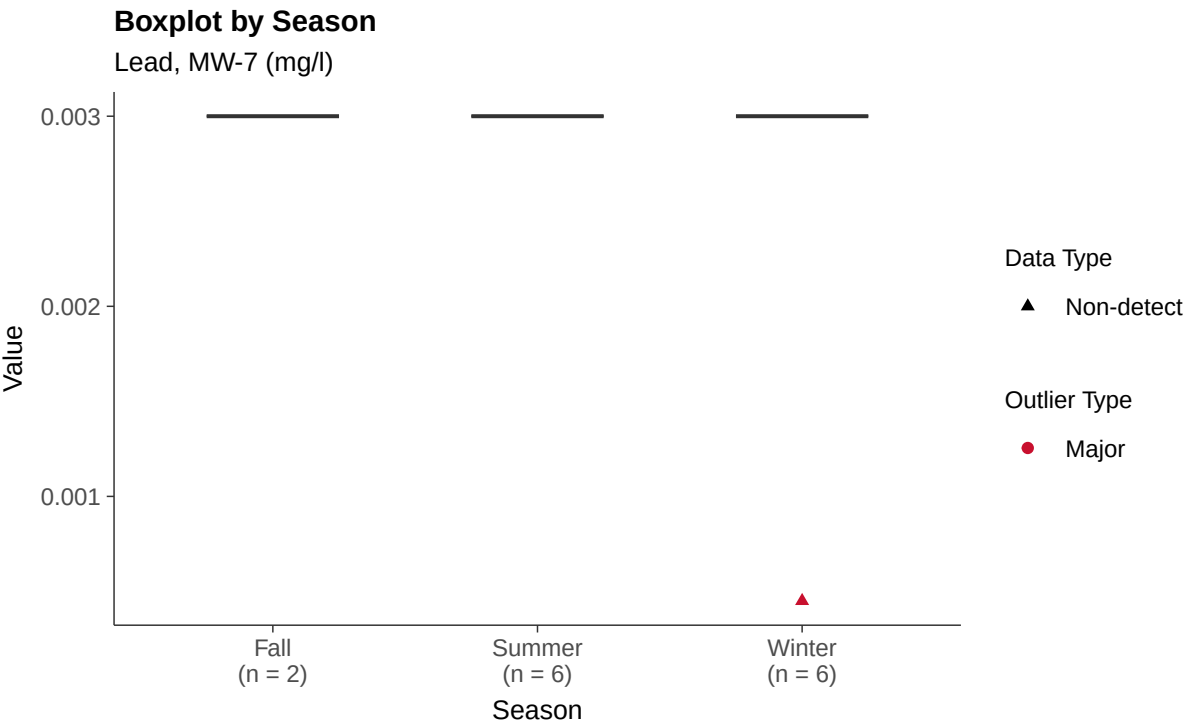
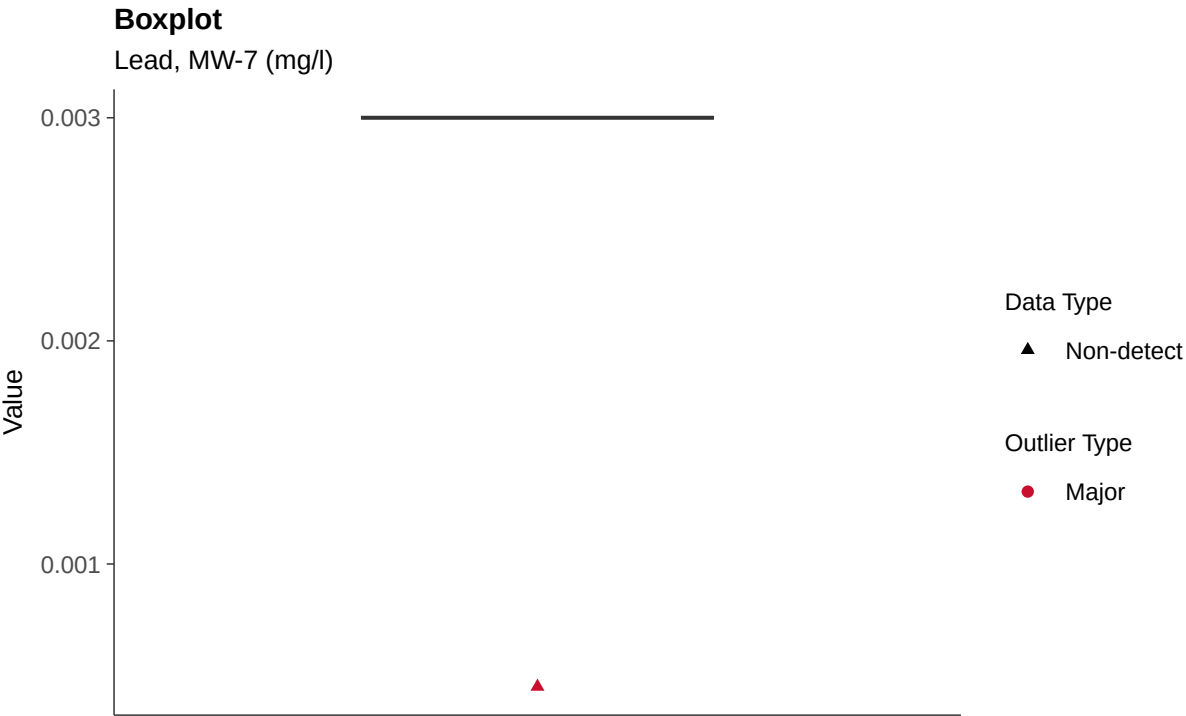








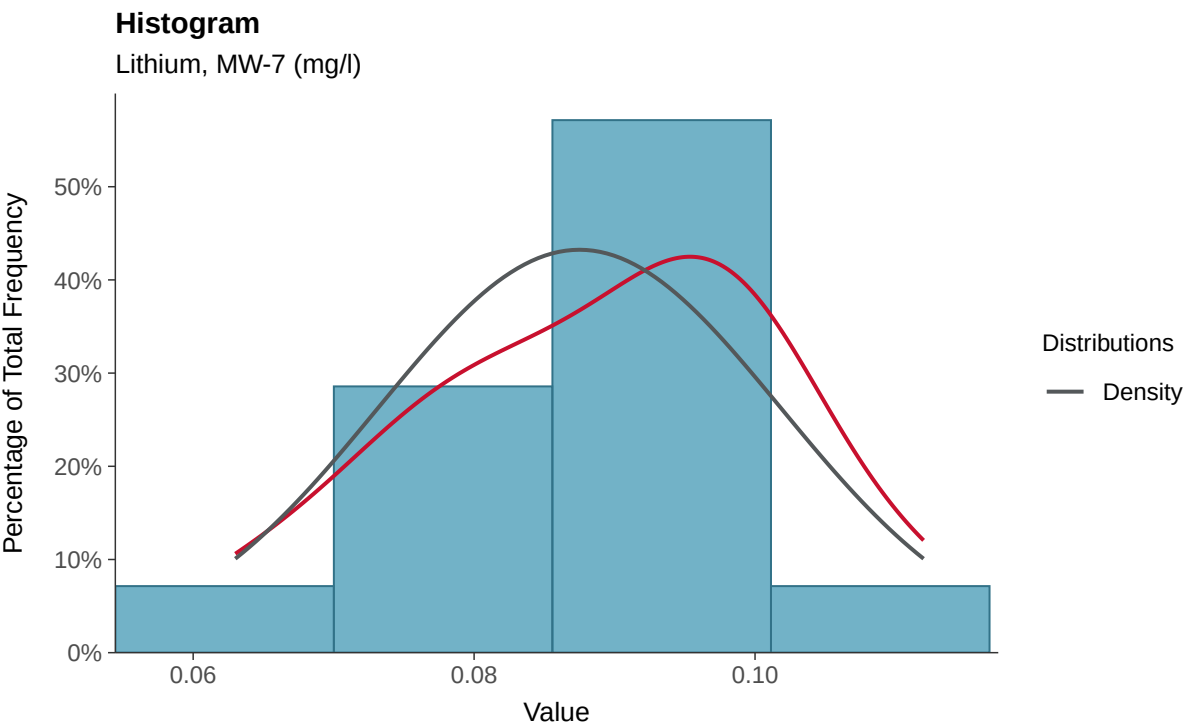
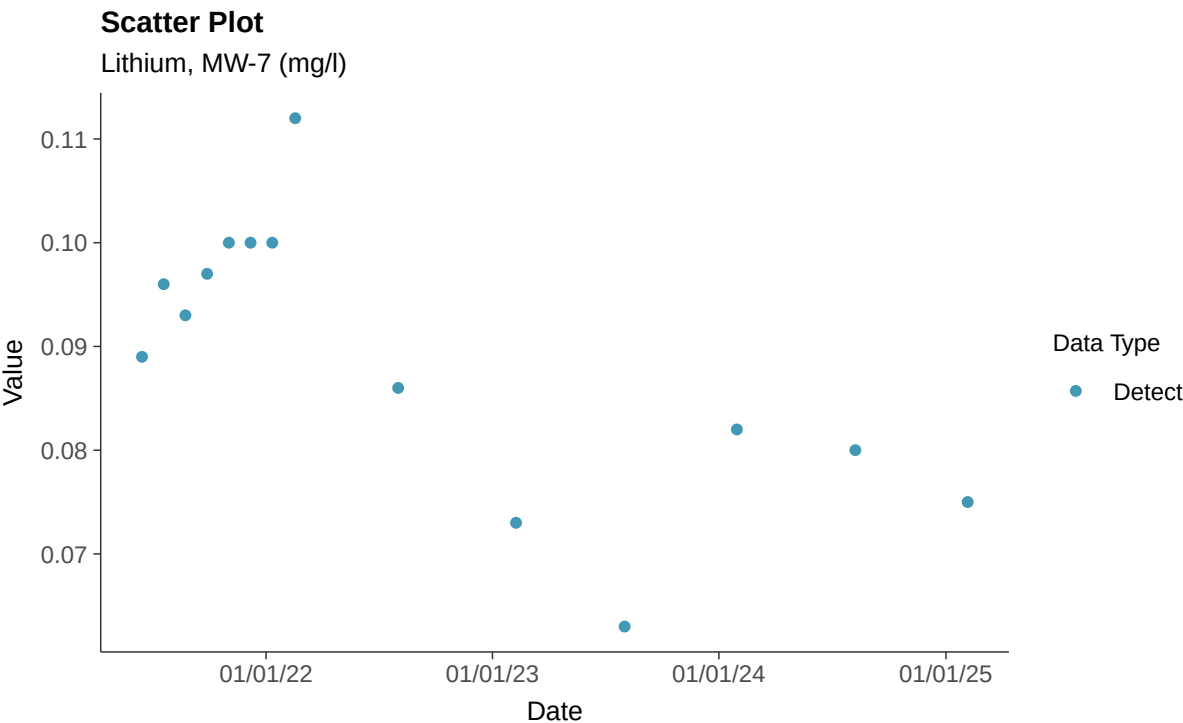


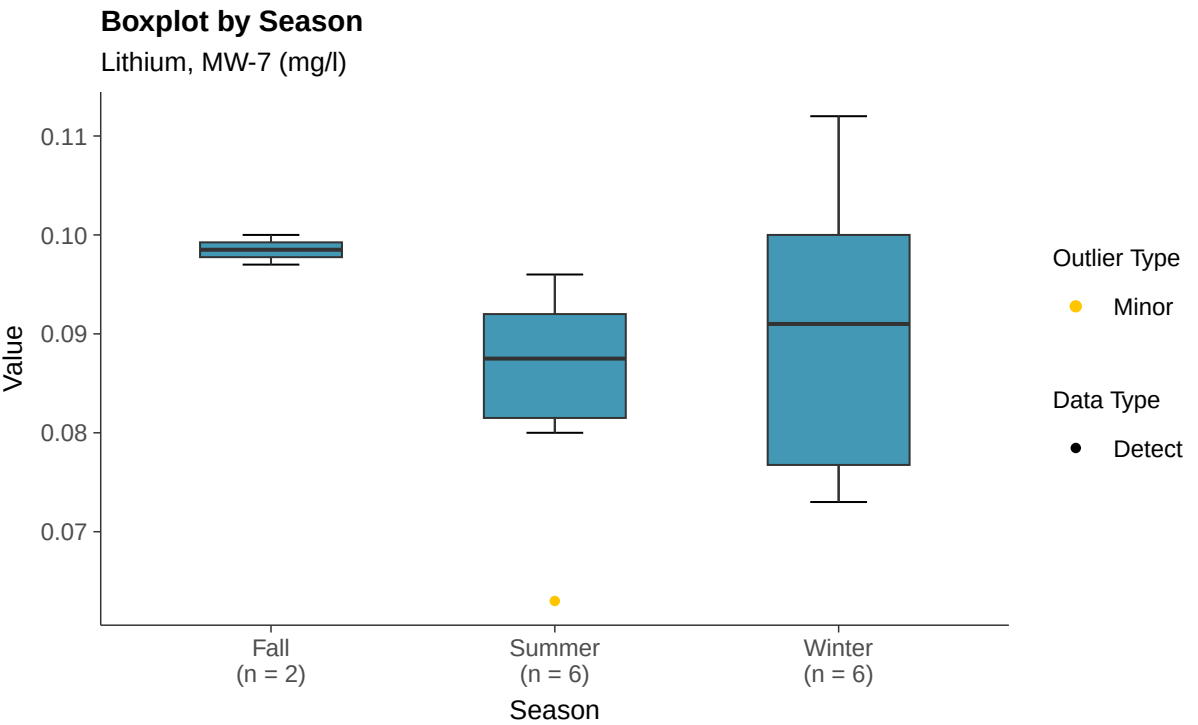
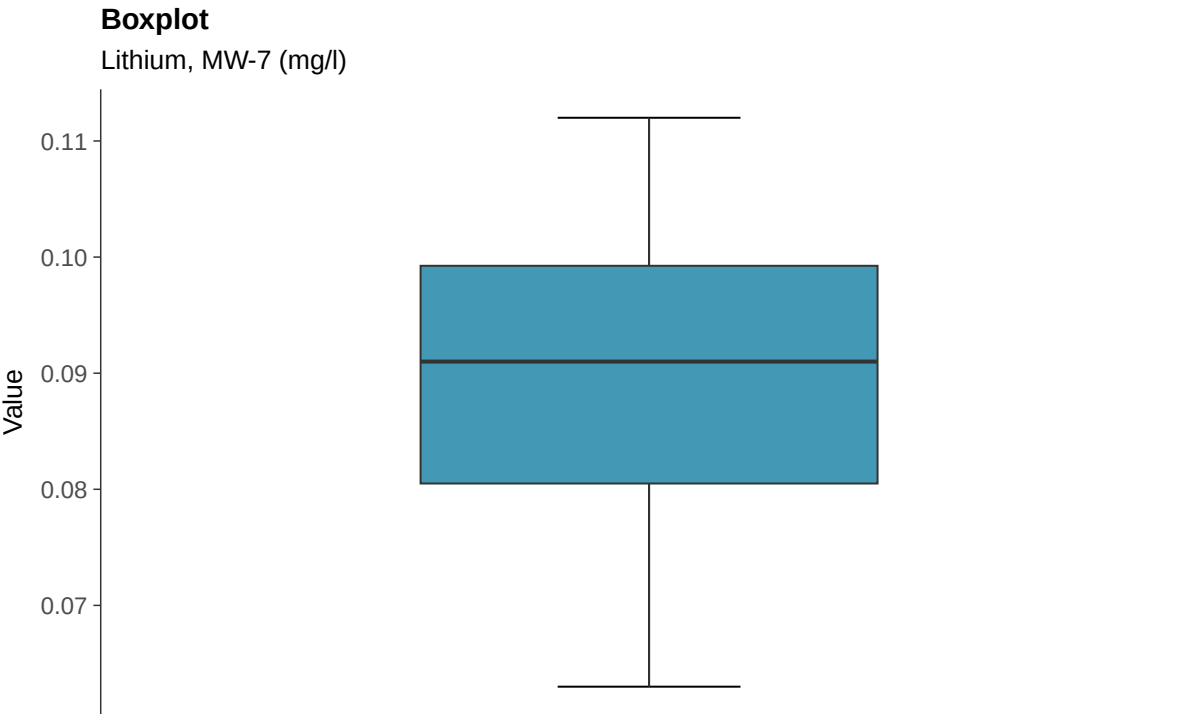


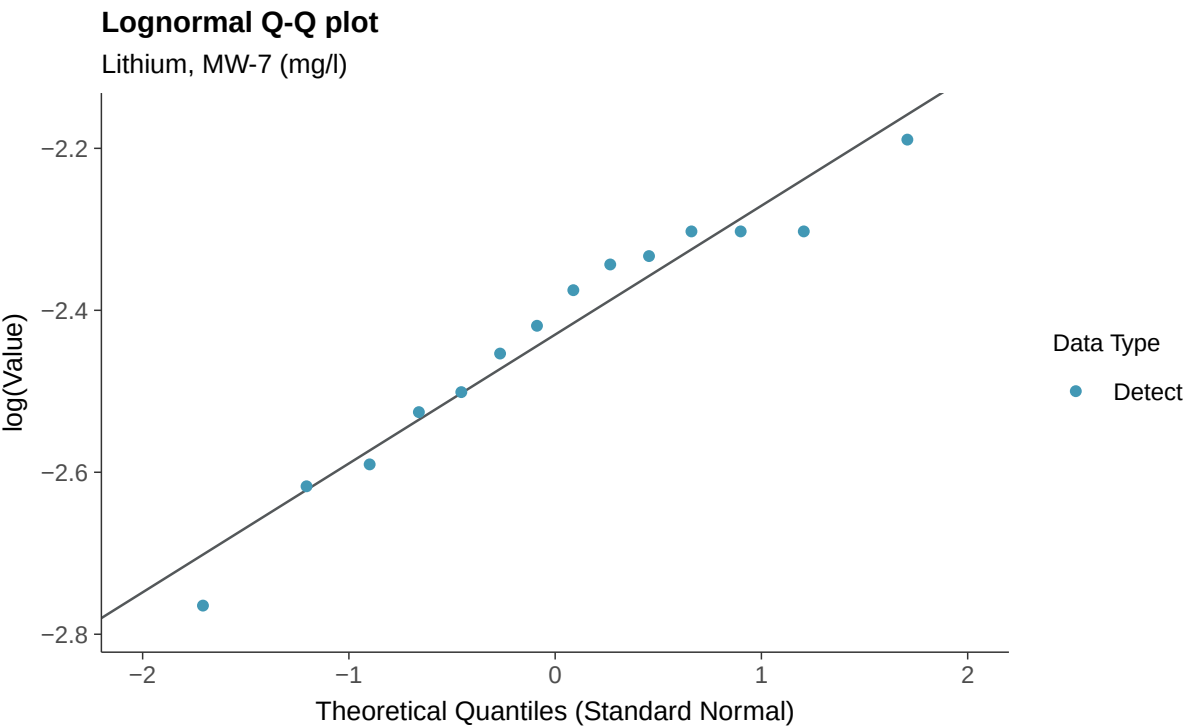
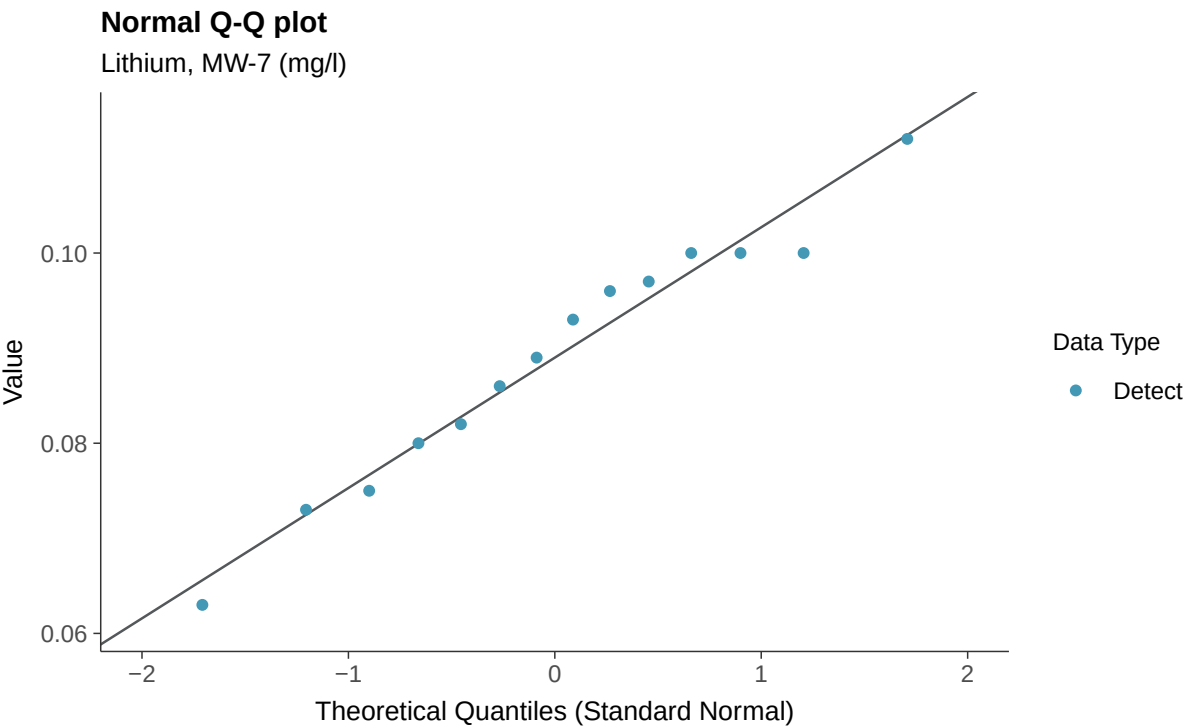


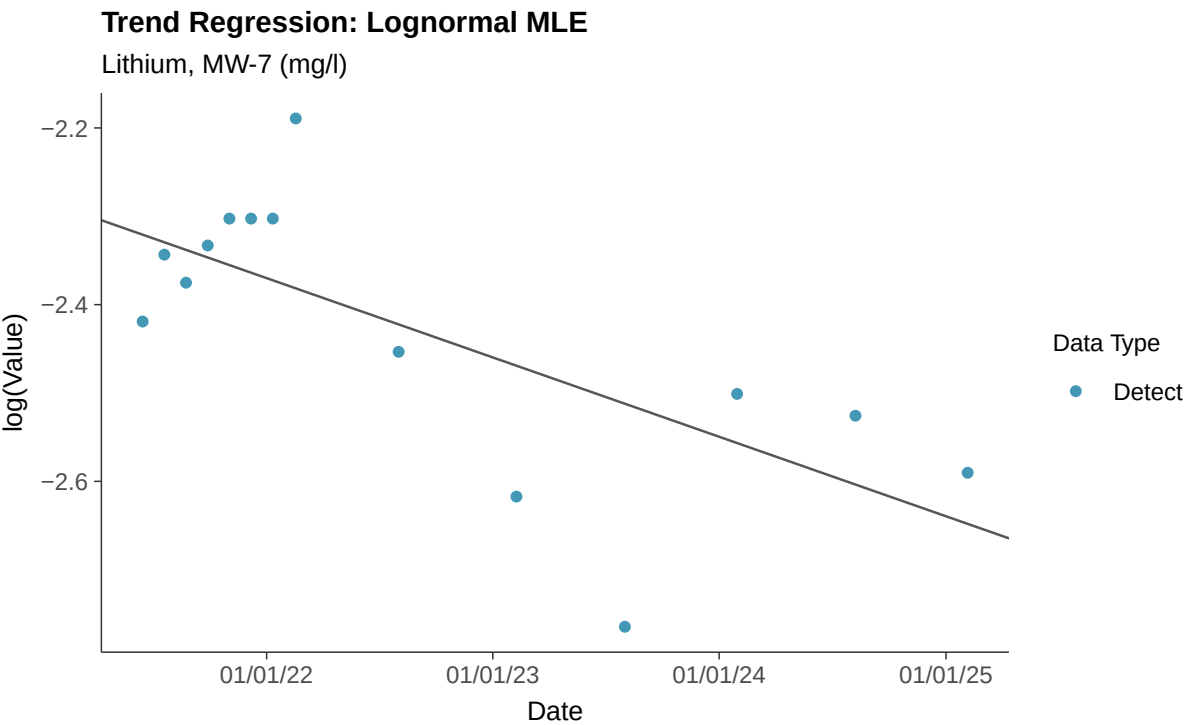
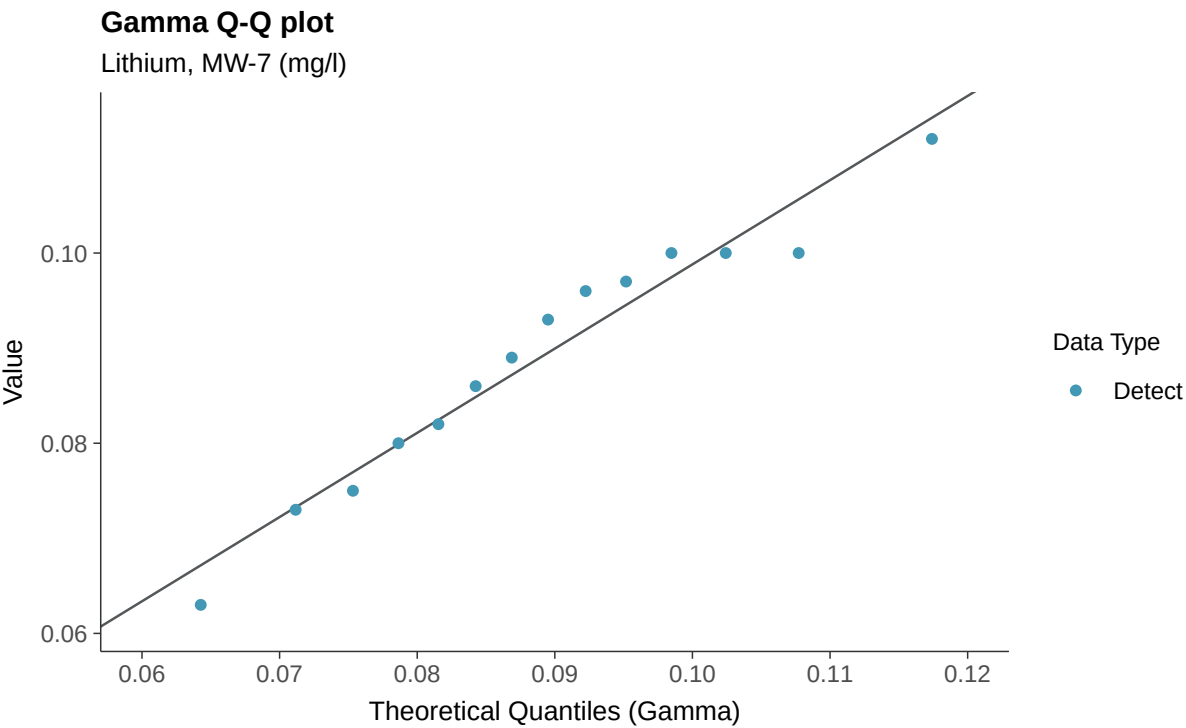
Appendix IV: Lithium, MW-7

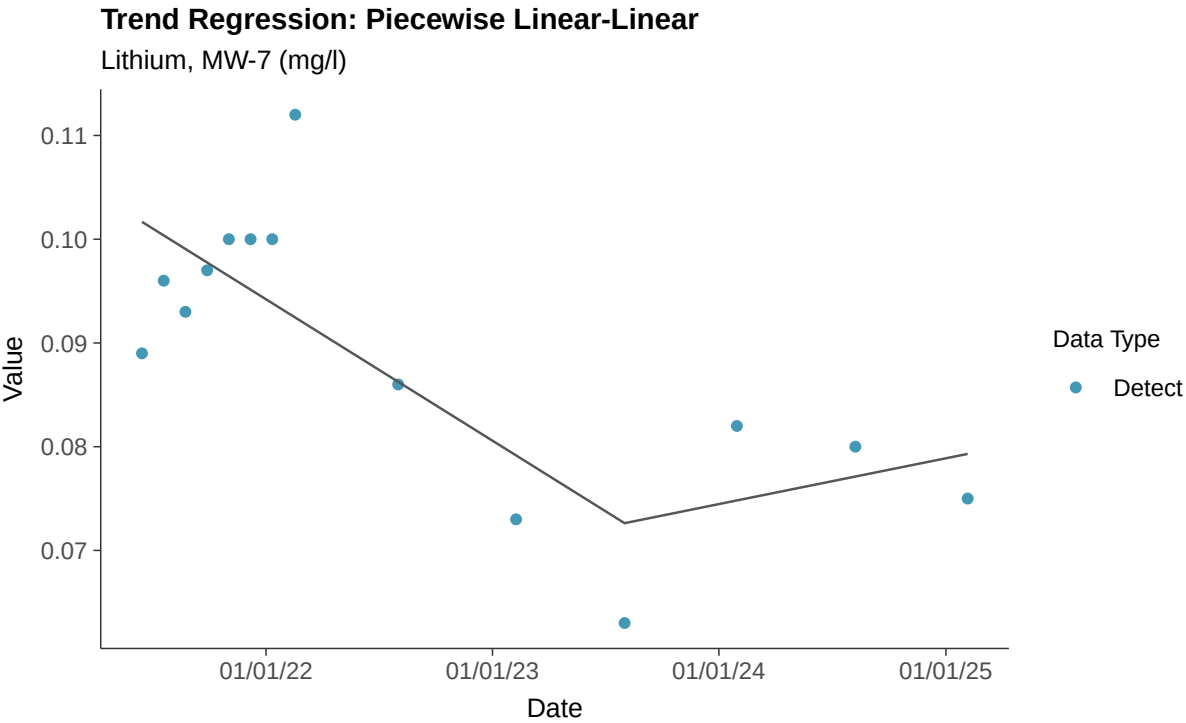
ID: 15_3_116







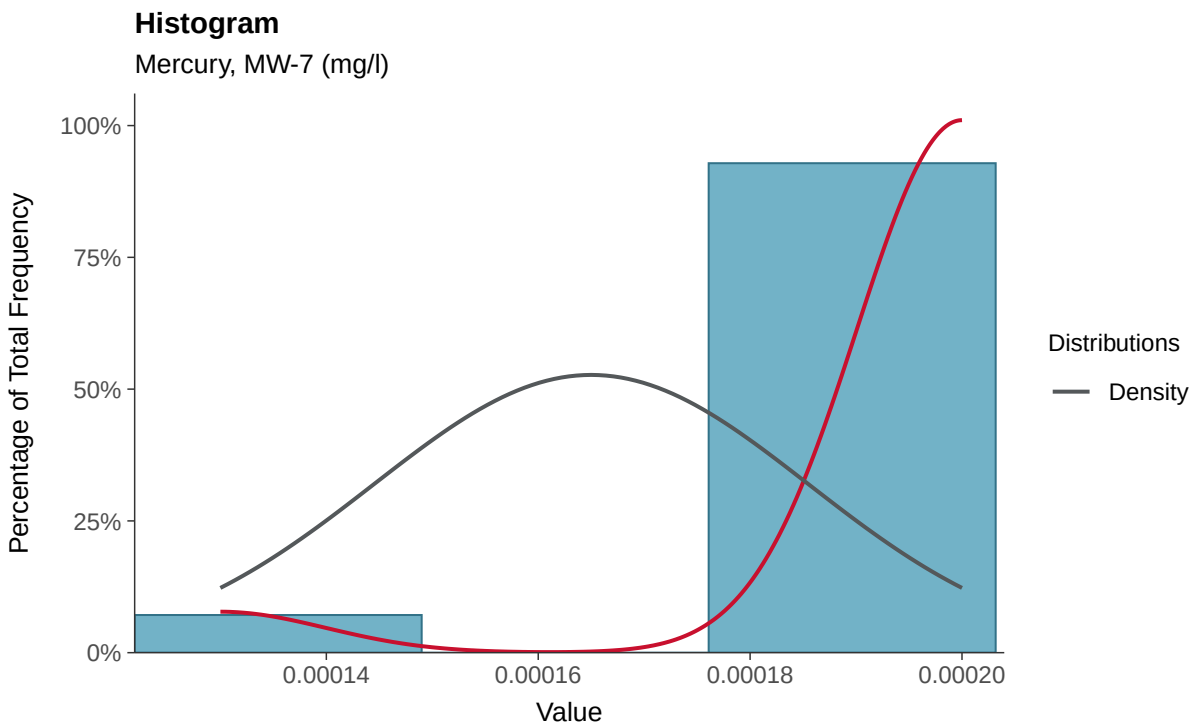
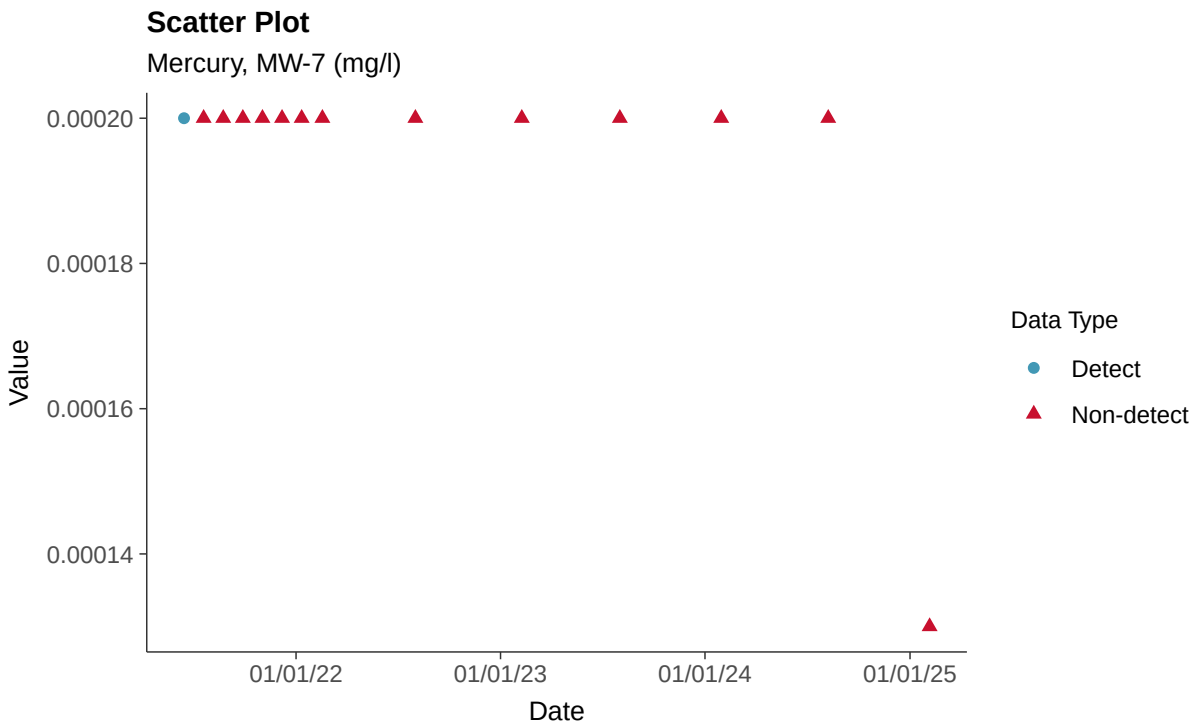


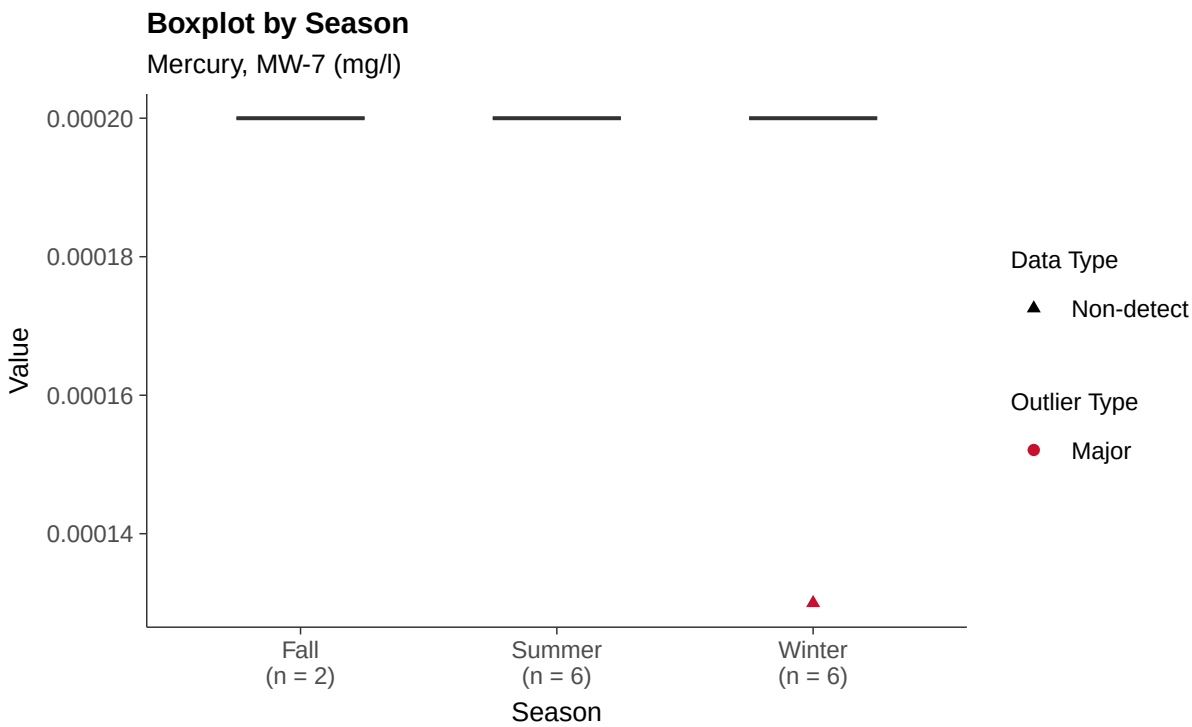
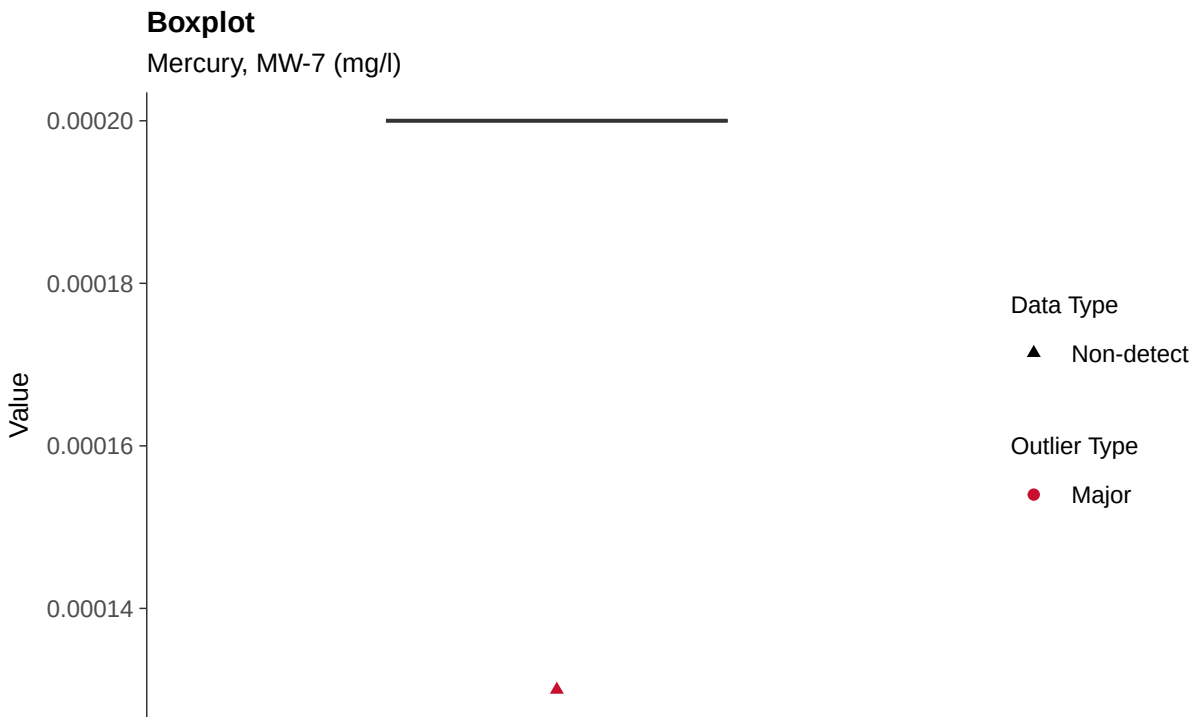




Appendix IV: Mercury, MW-7

ID: 15_3_117

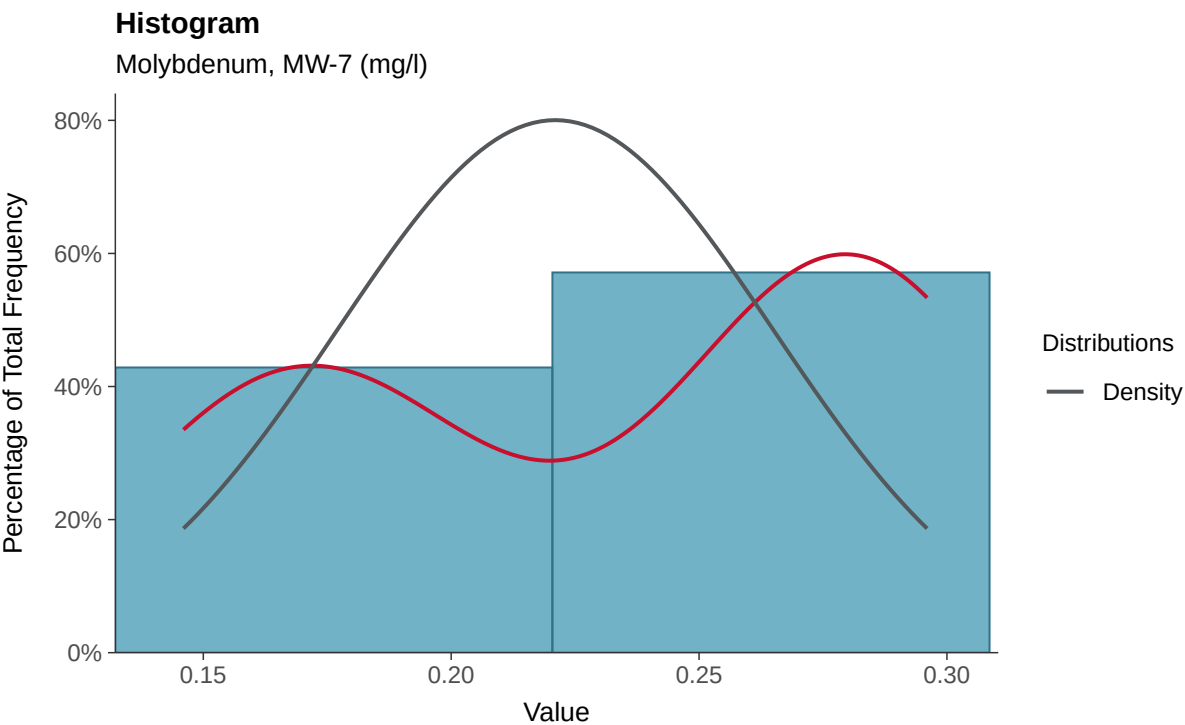
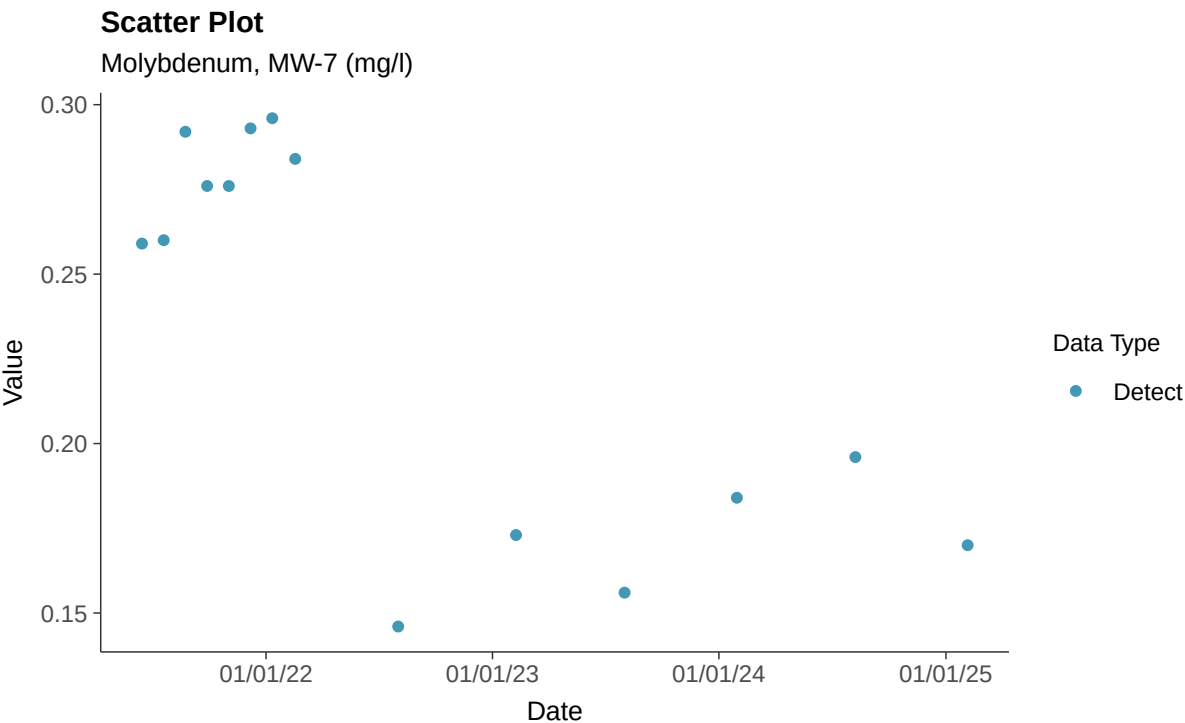


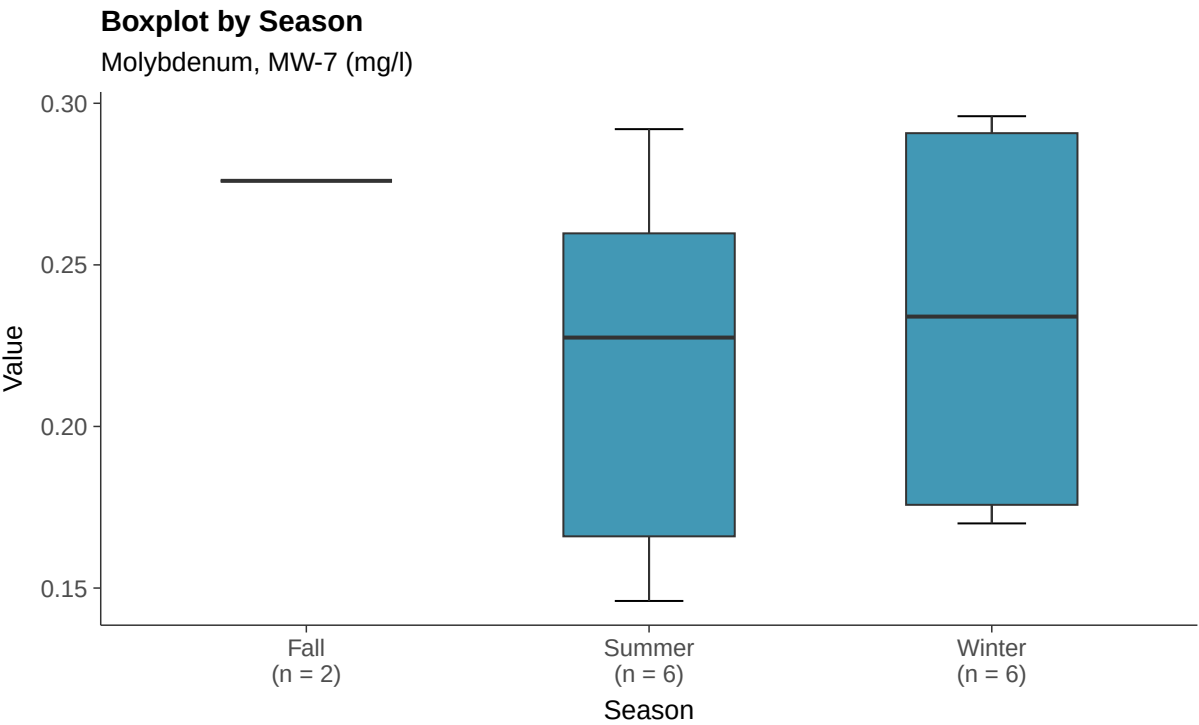
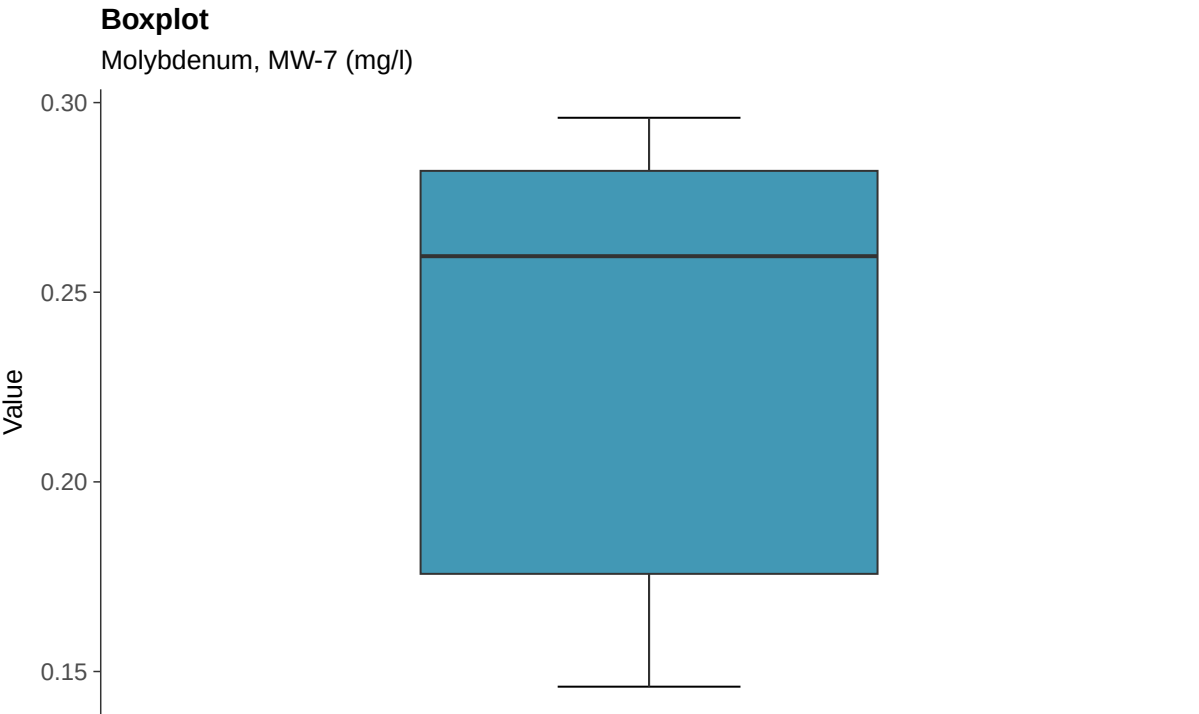


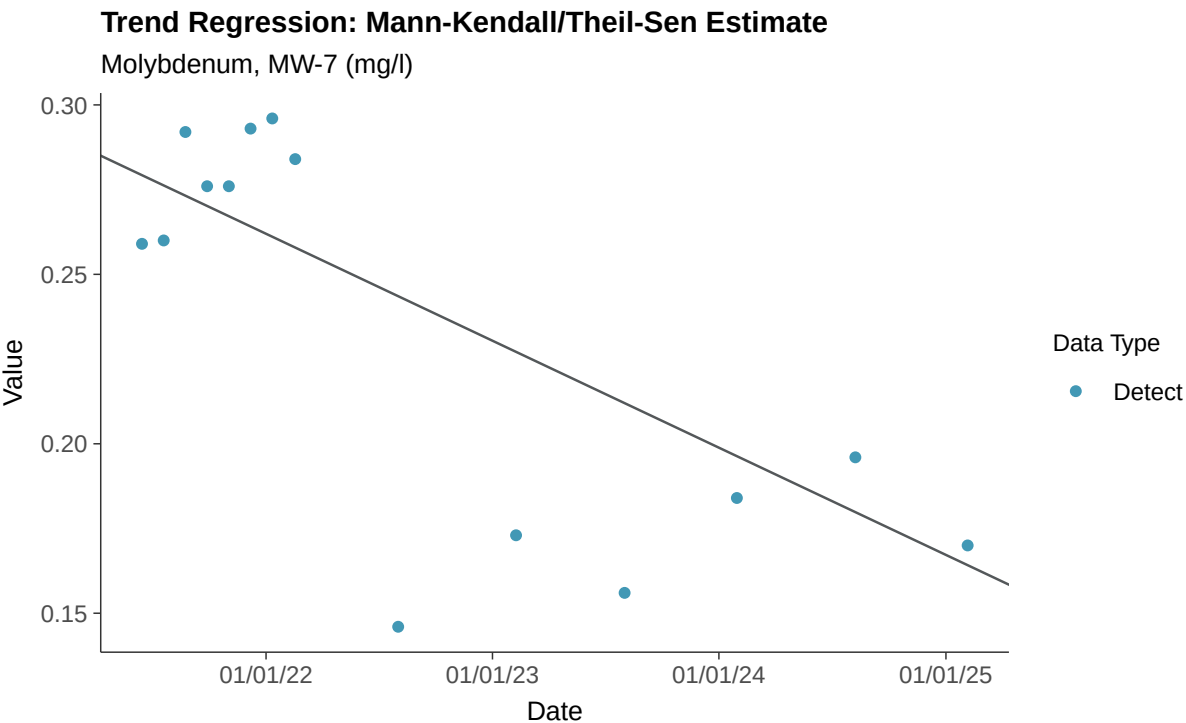
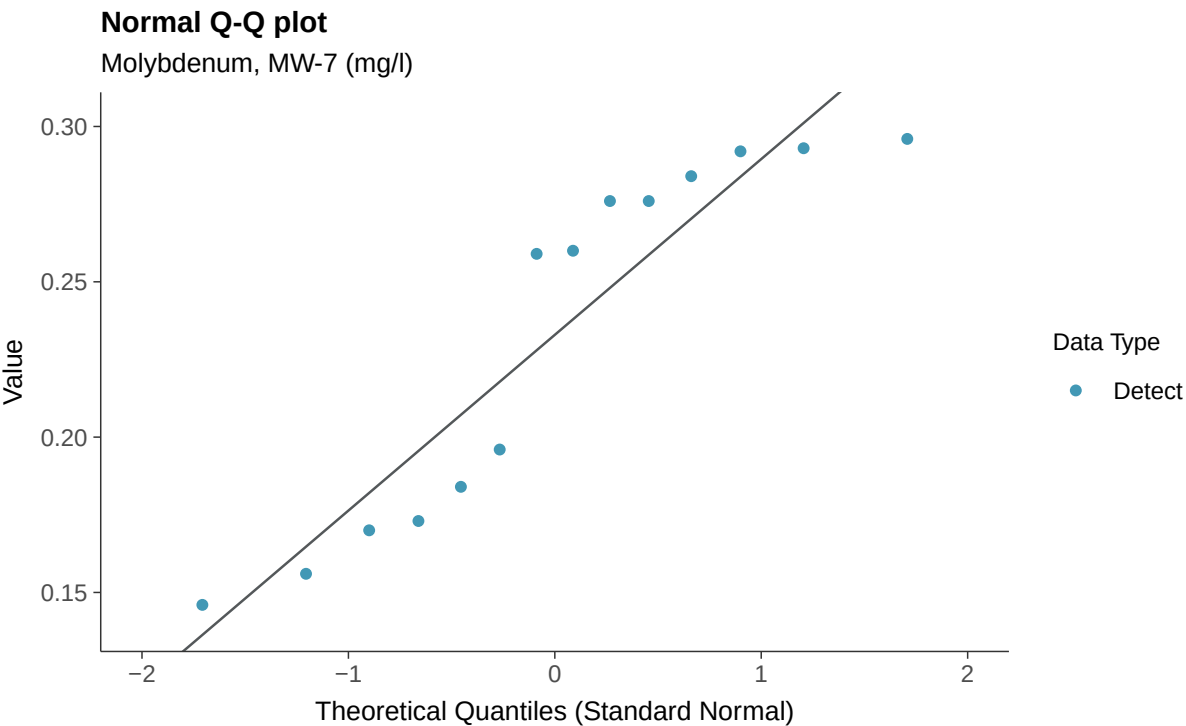


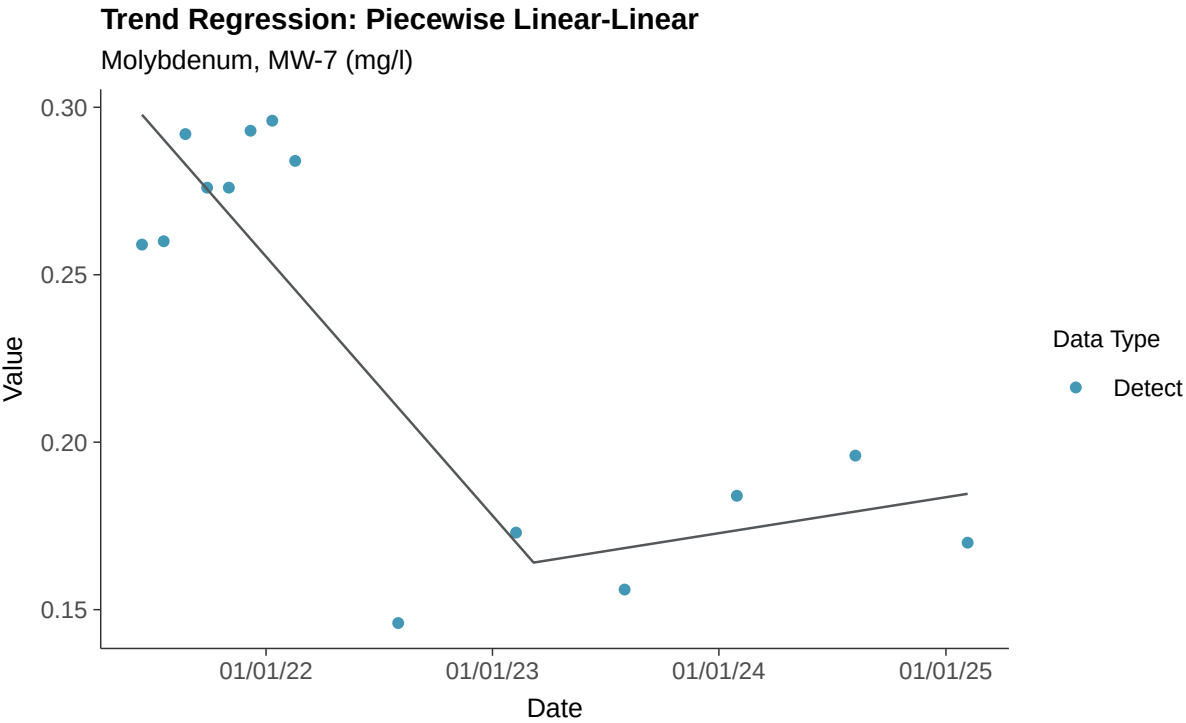
Appendix IV: Molybdenum, MW-7

ID: 15_3_118





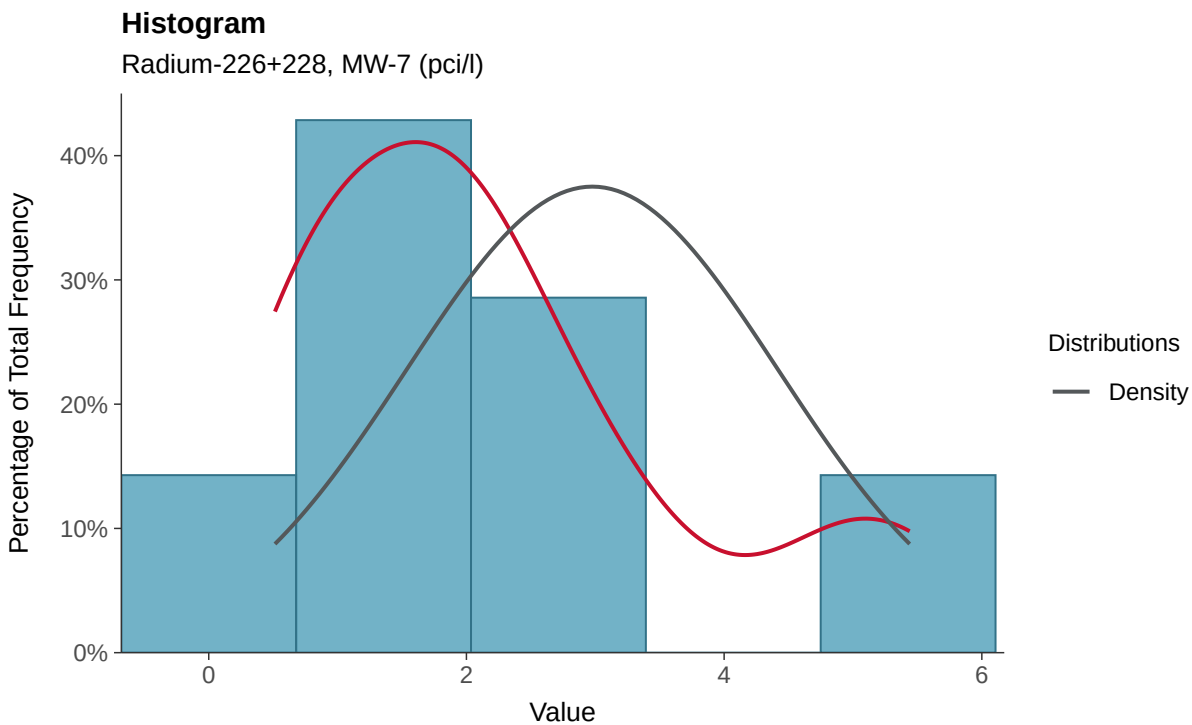
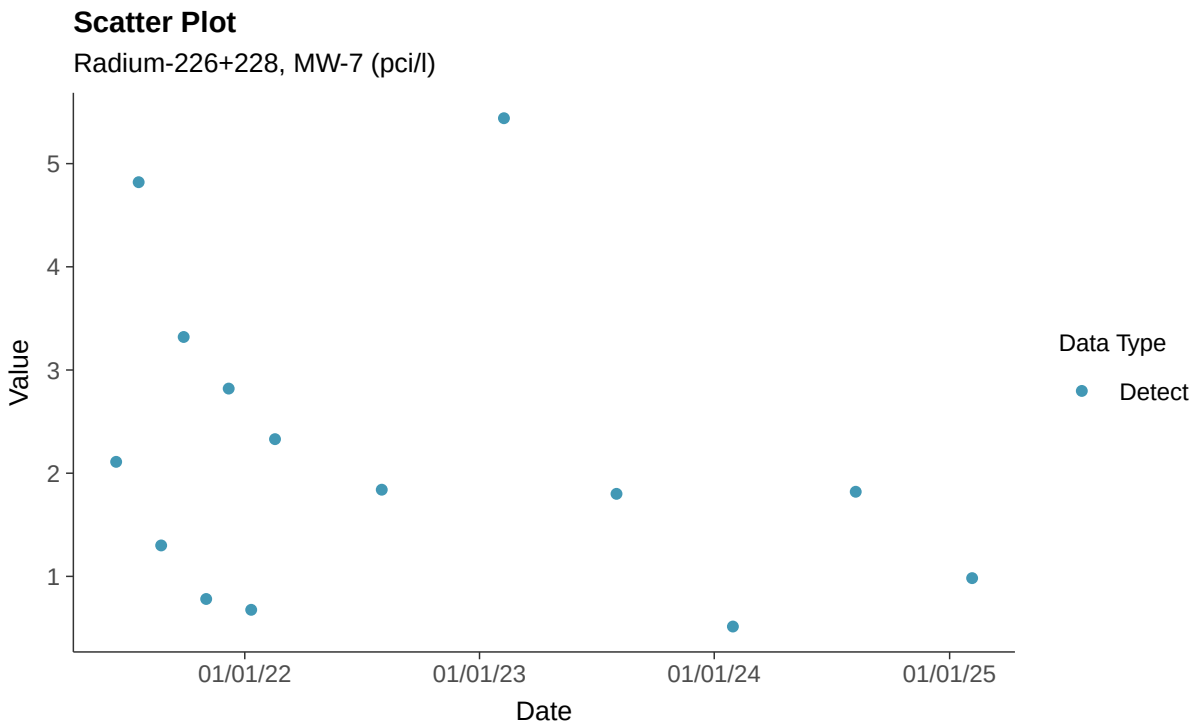






Appendix IV: Radium-226+228, MW-7

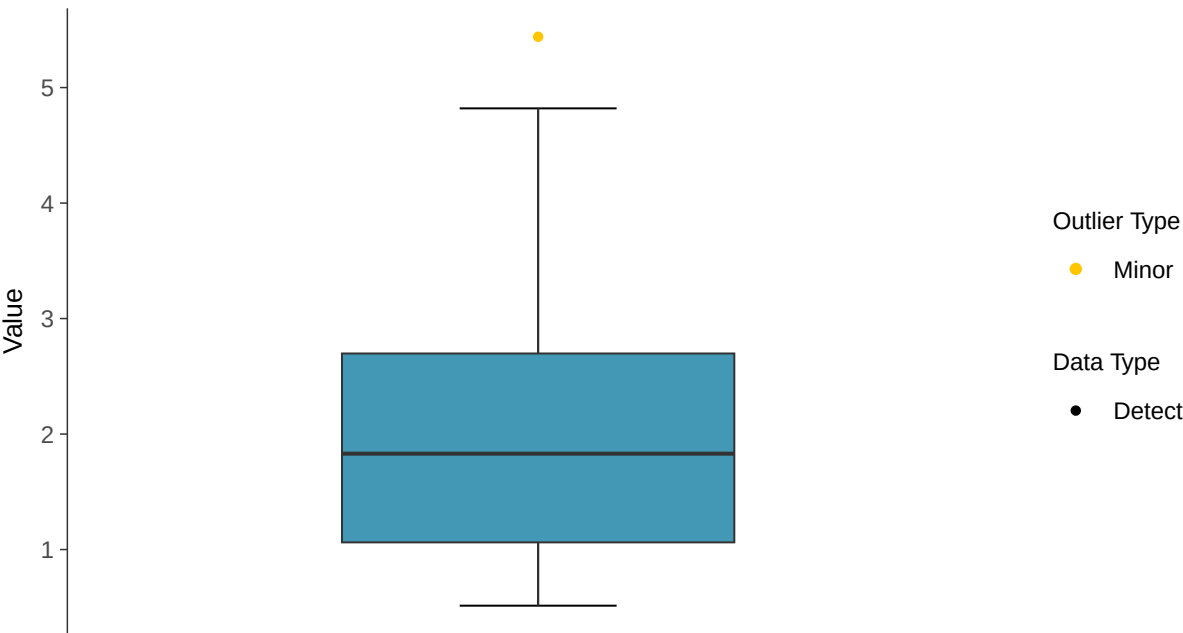
ID: 15_3_121





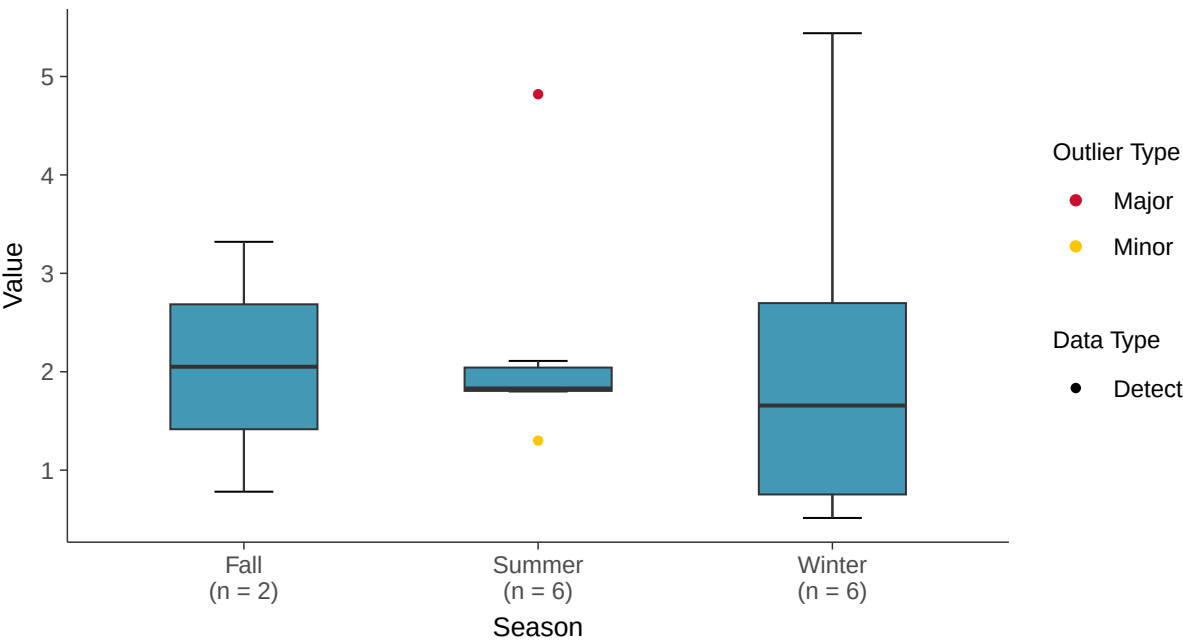
Boxplot

Radium-226+228, MW-7 (pci/l)



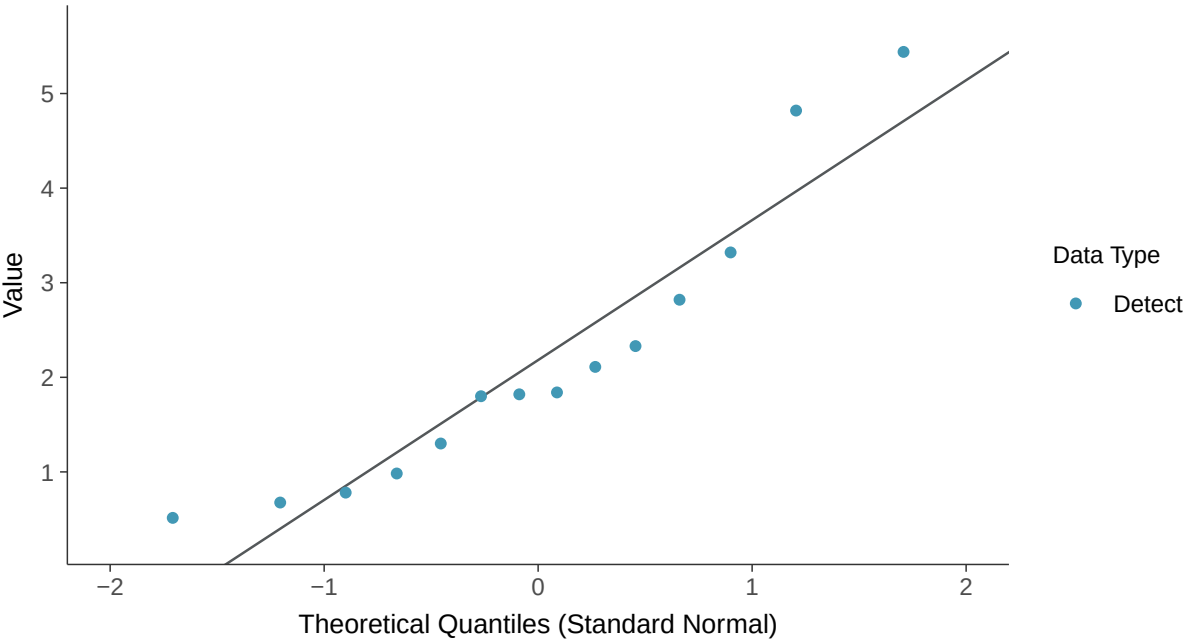
Boxplot by Season

Radium-226+228, MW-7 (pci/l)

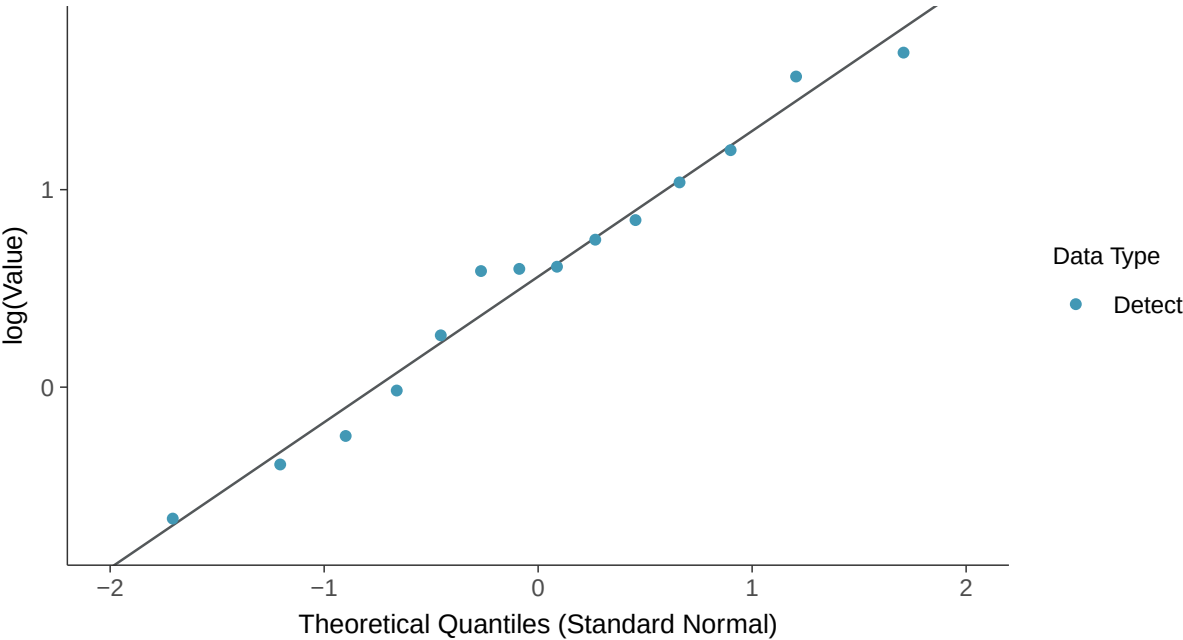




Normal Q-Q plot
Radium-226+228, MW-7 (pci/l)

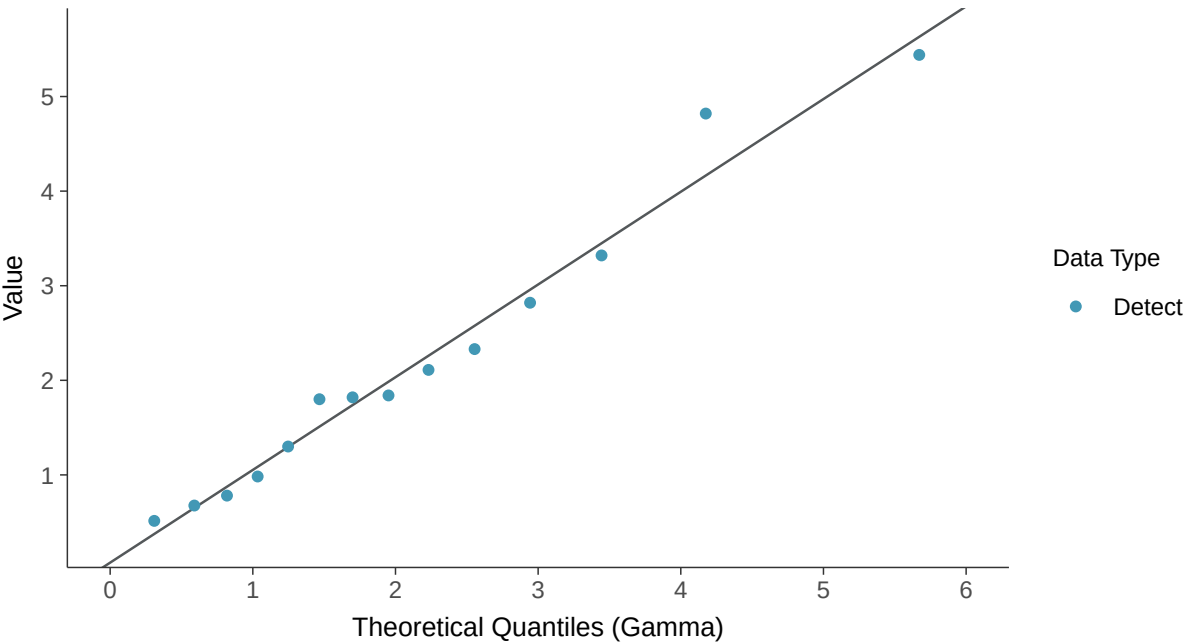


Lognormal Q-Q plot
Radium-226+228, MW-7 (pci/l)

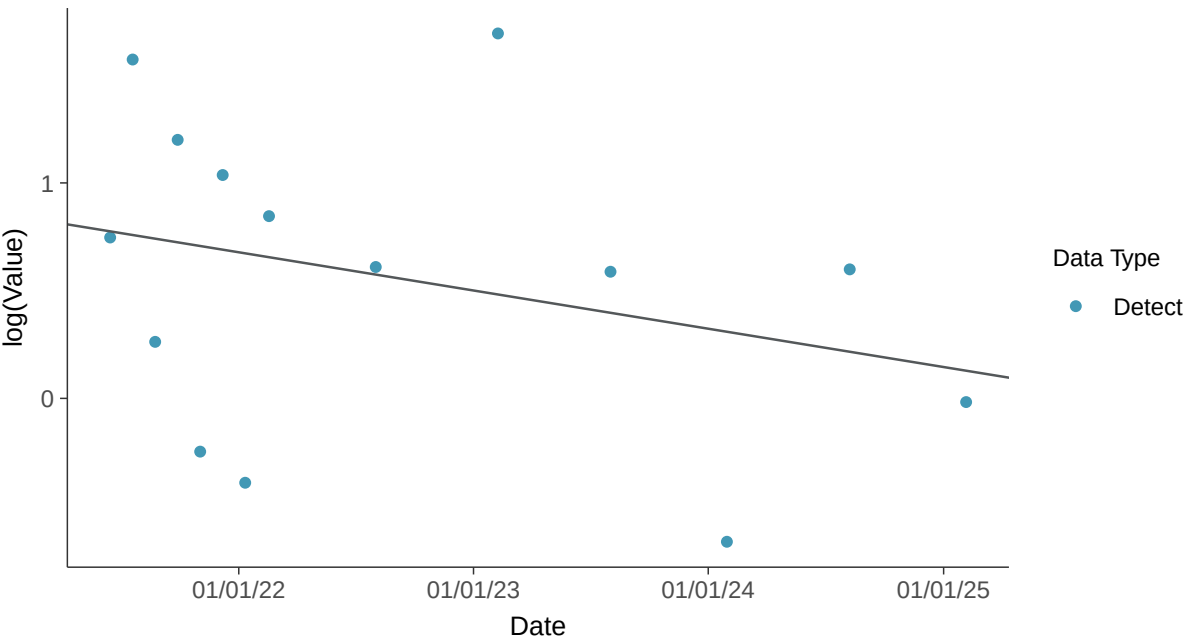




Gamma Q-Q plot
Radium-226+228, MW-7 (pci/l)



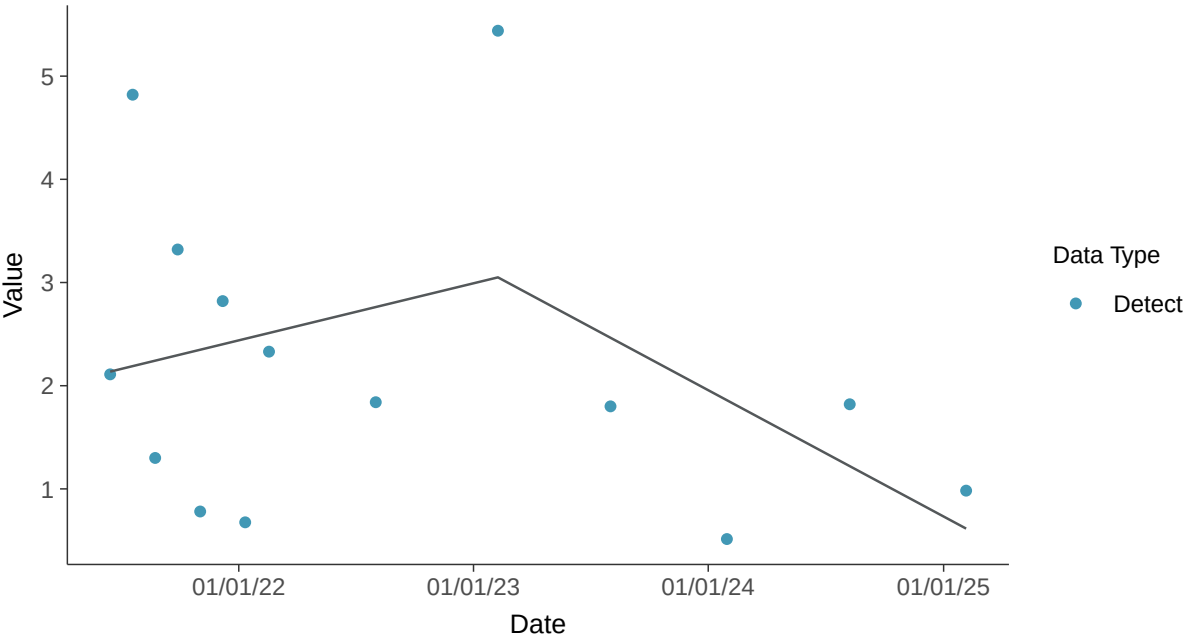
Trend Regression: Lognormal MLE
Radium-226+228, MW-7 (pci/l)

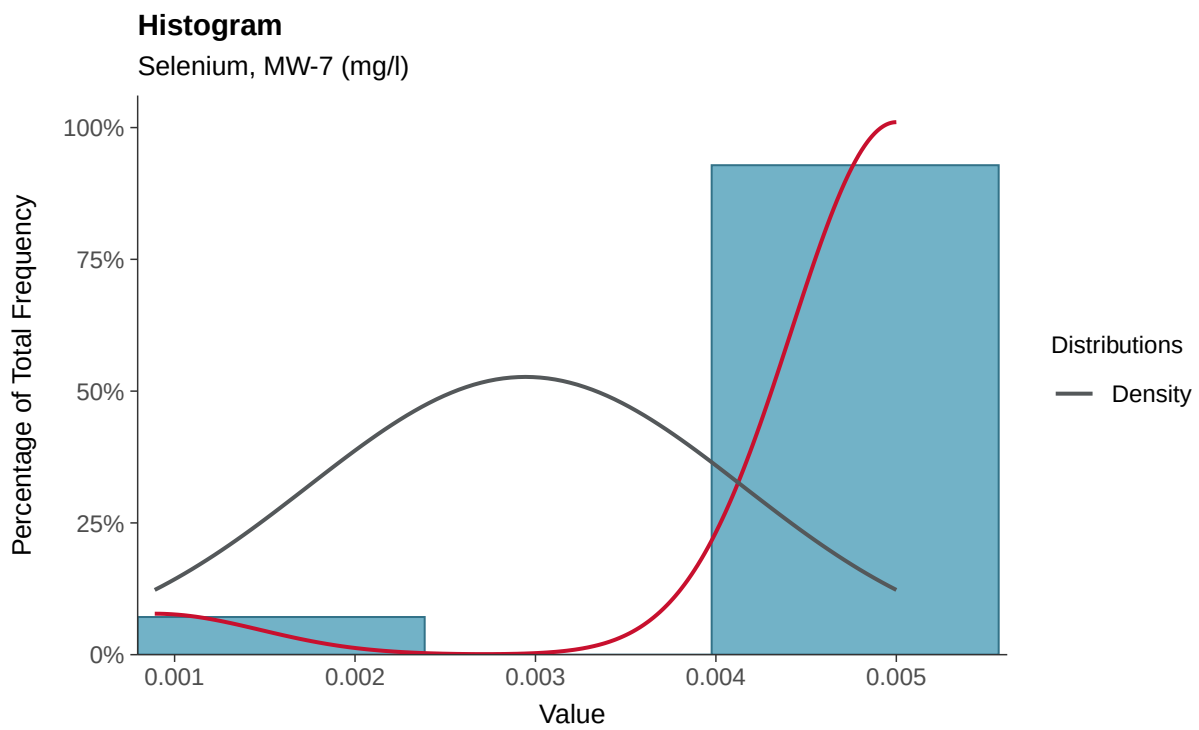


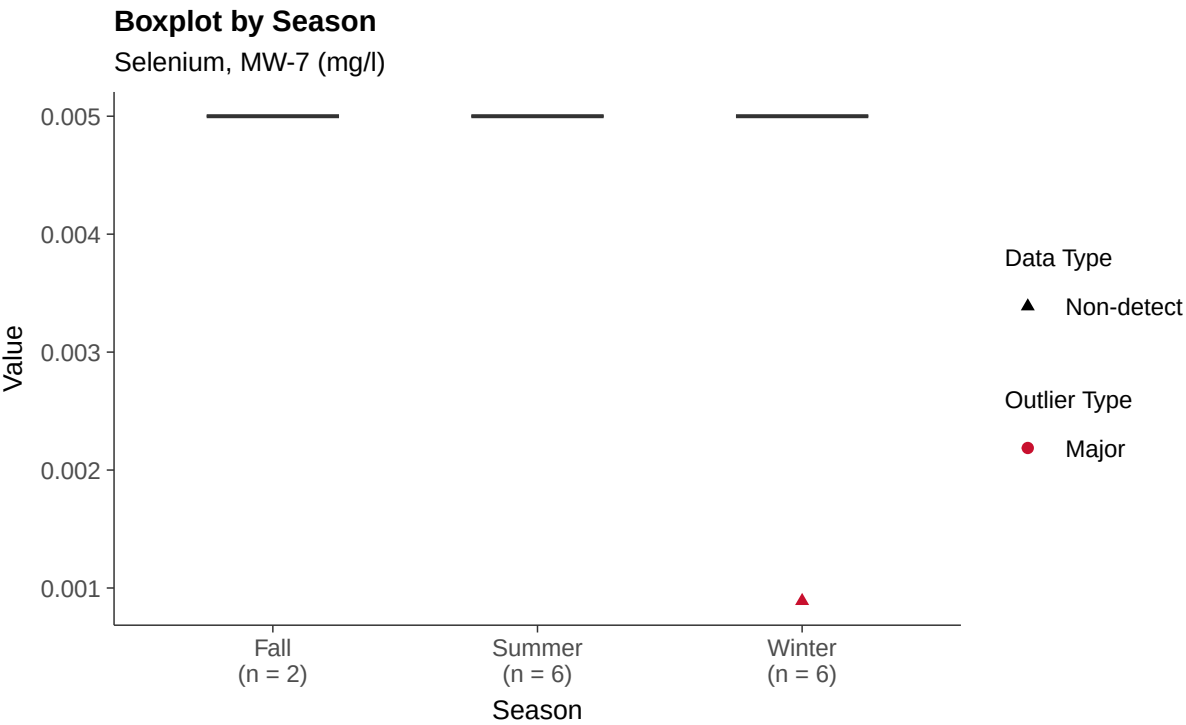
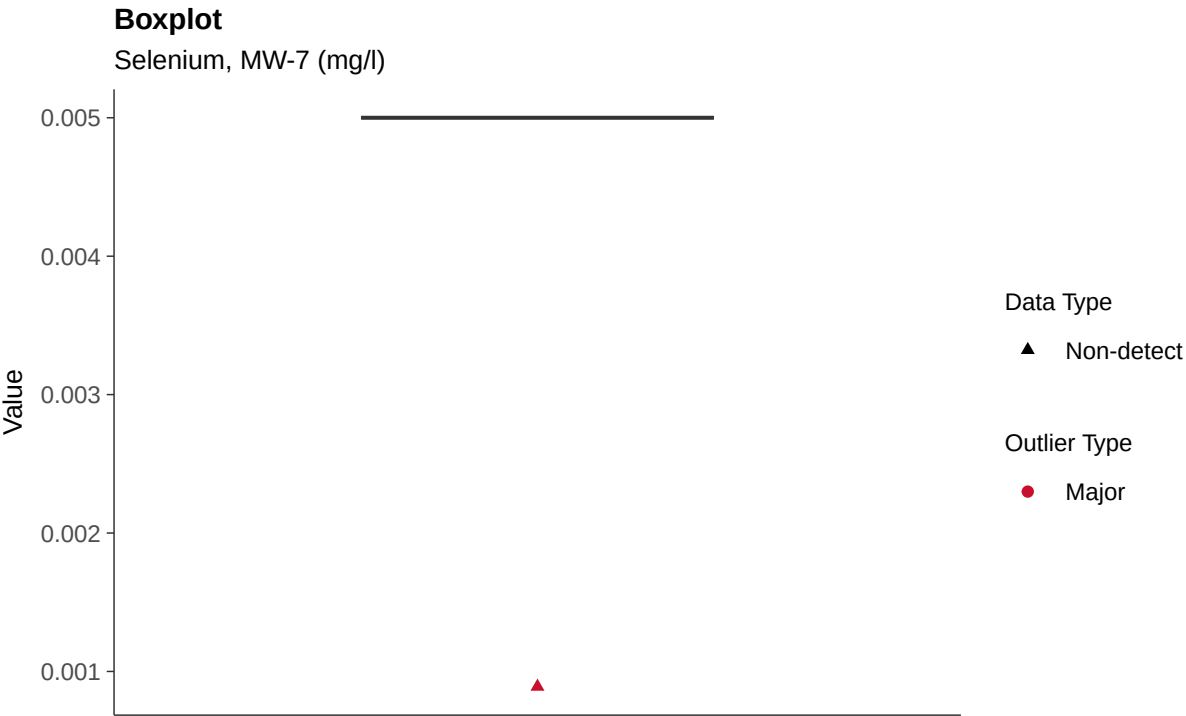


Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-7 (pci/l)



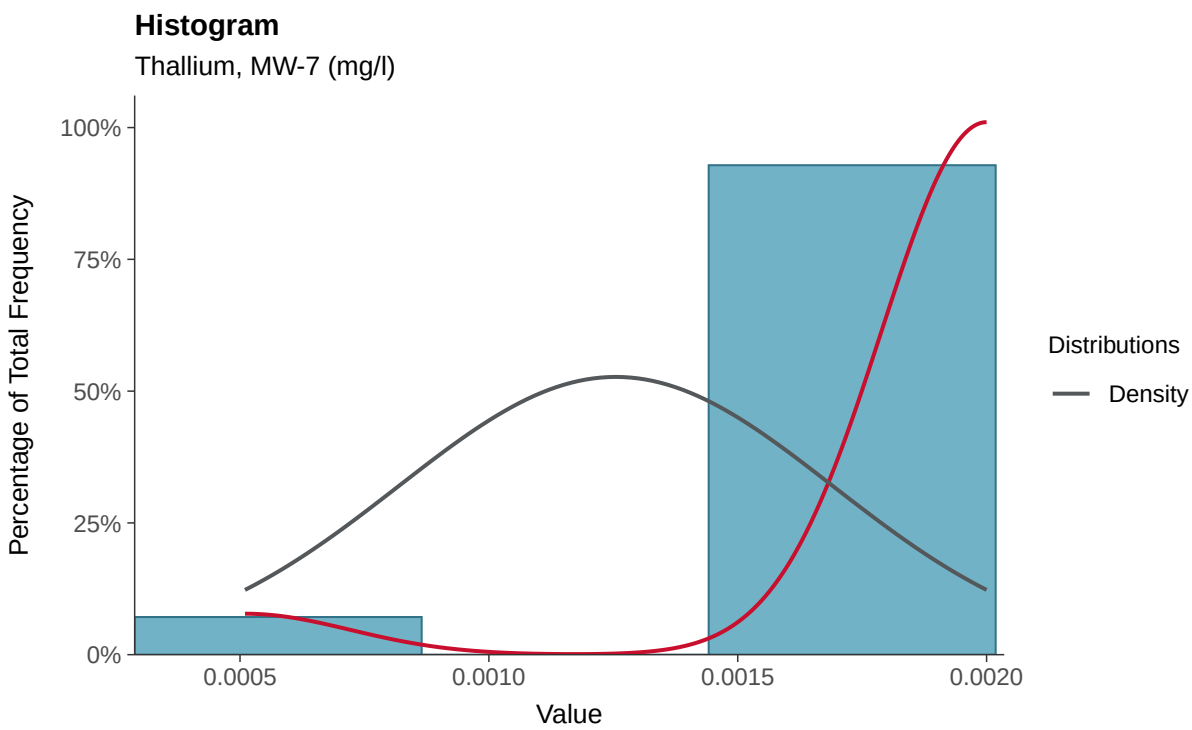
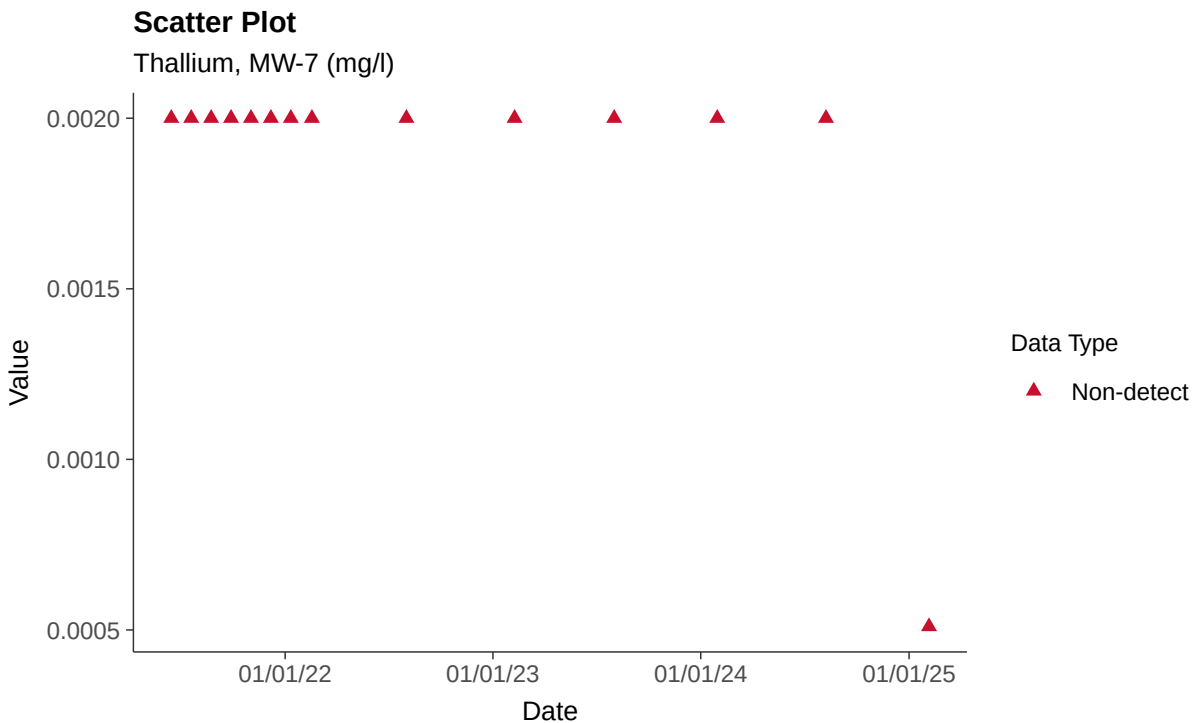


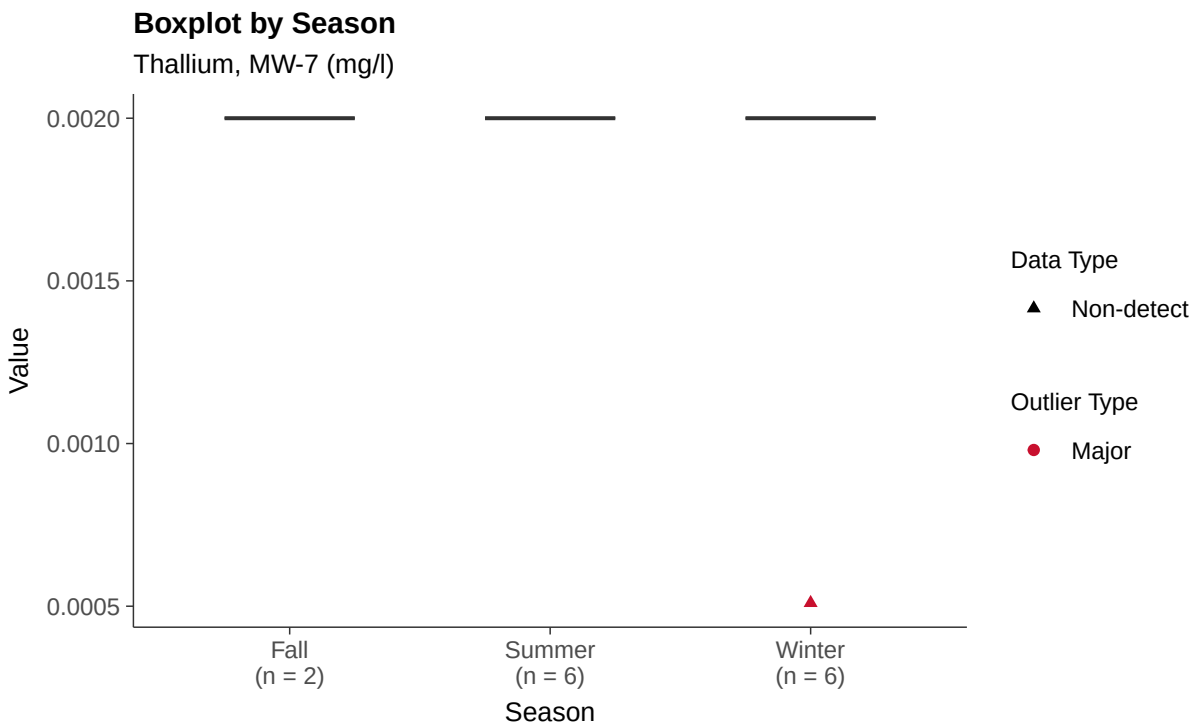
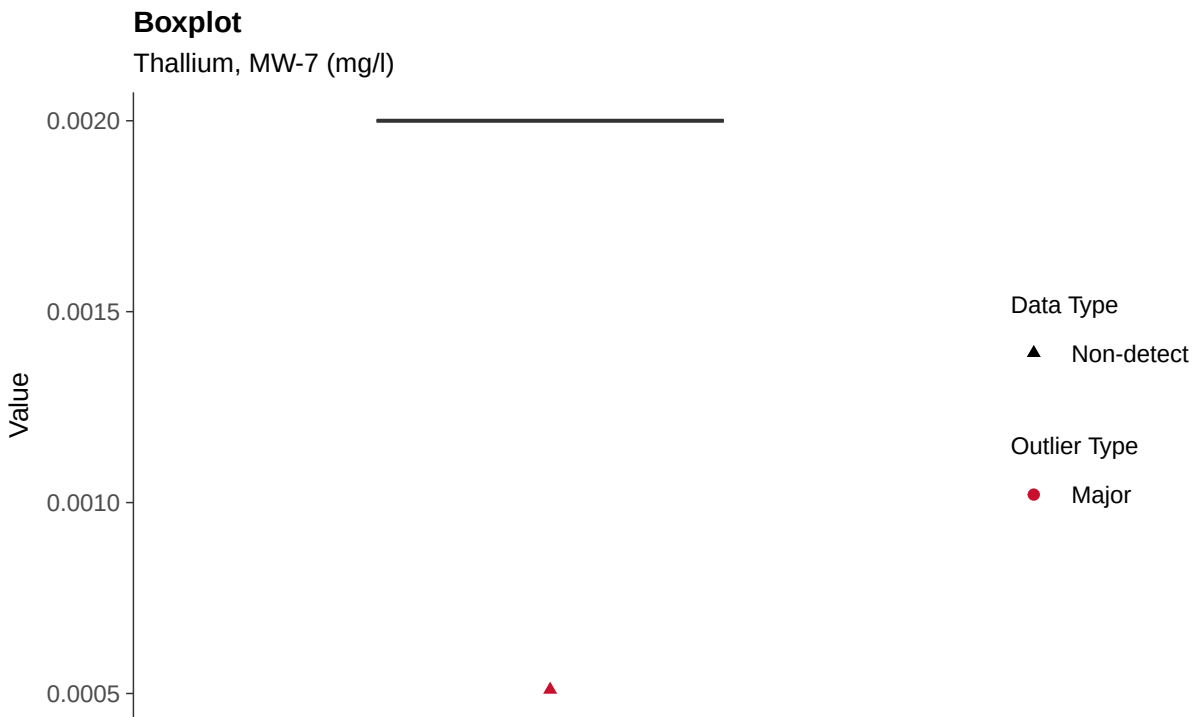


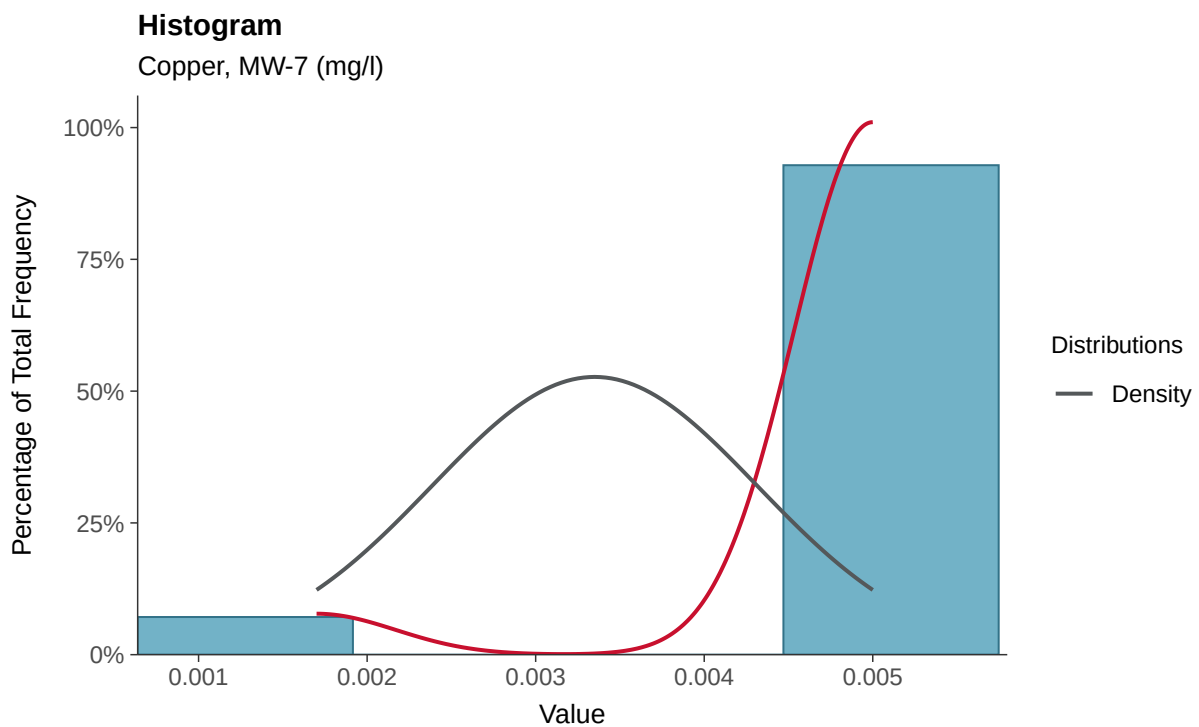


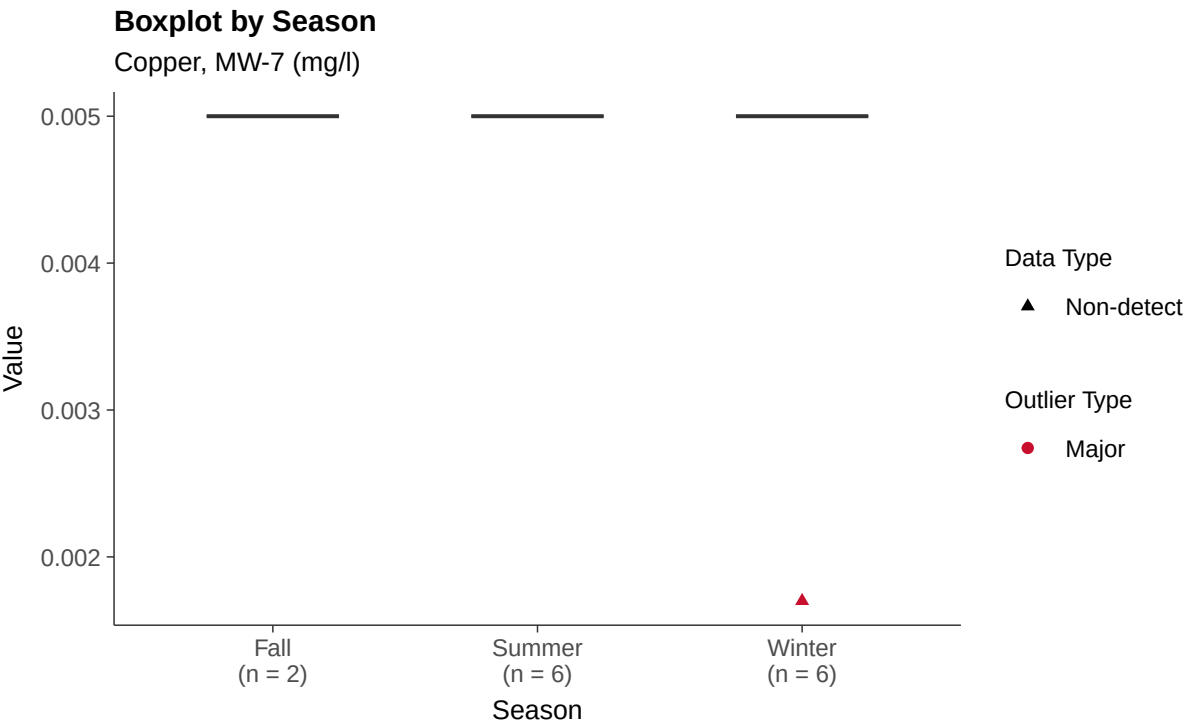
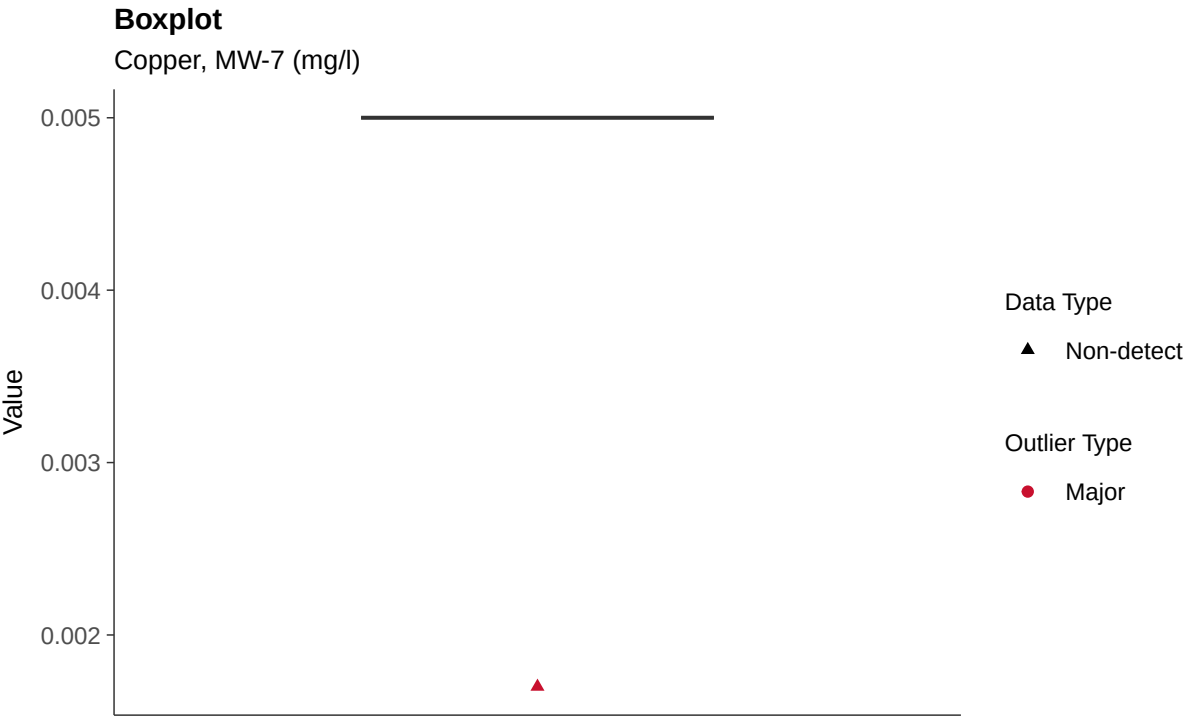
Appendix IV: Thallium, MW-7

ID: 15_3_125





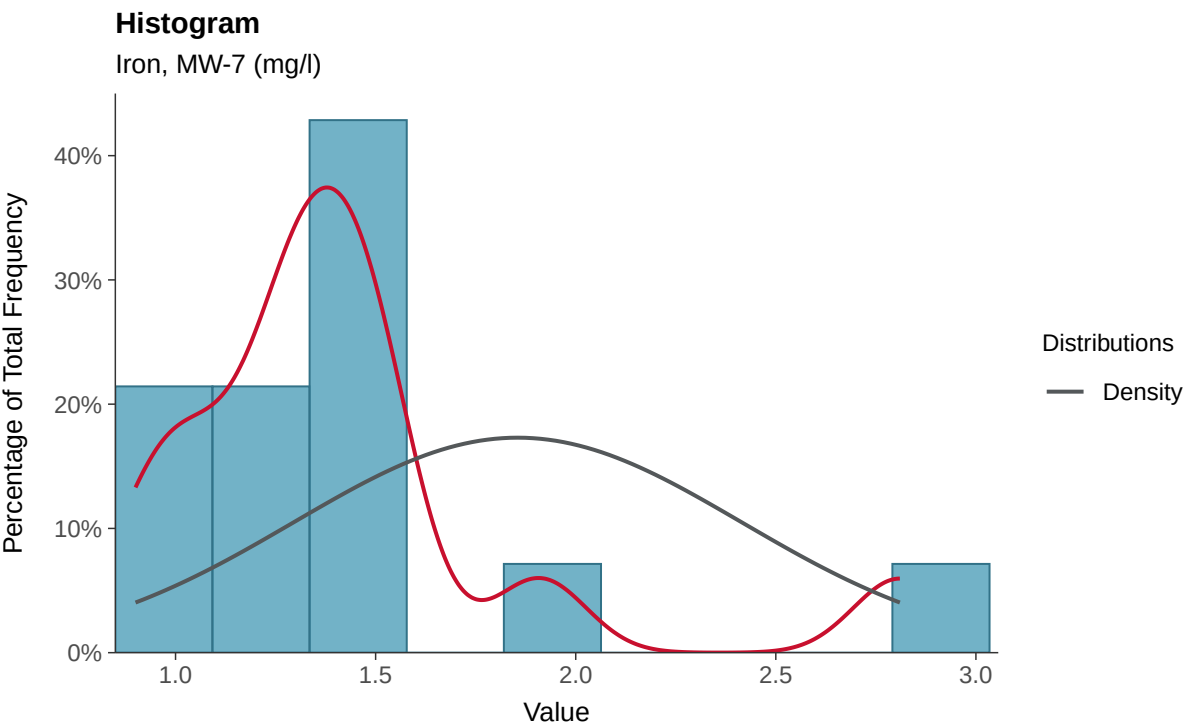
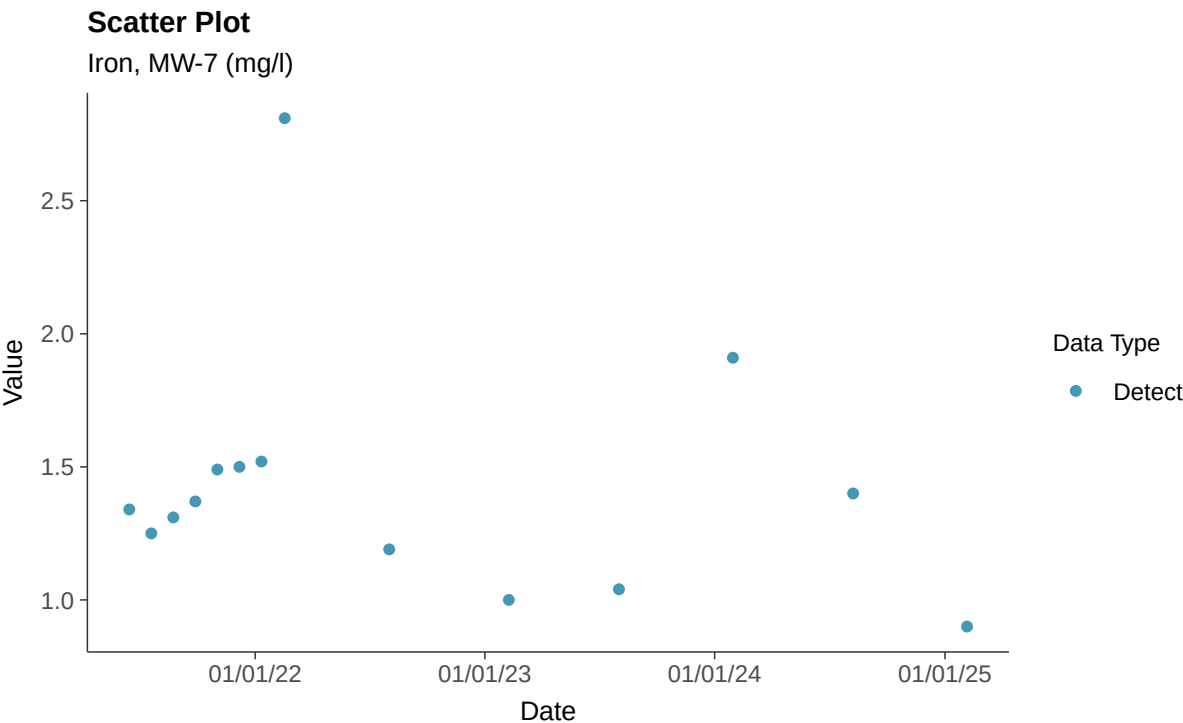


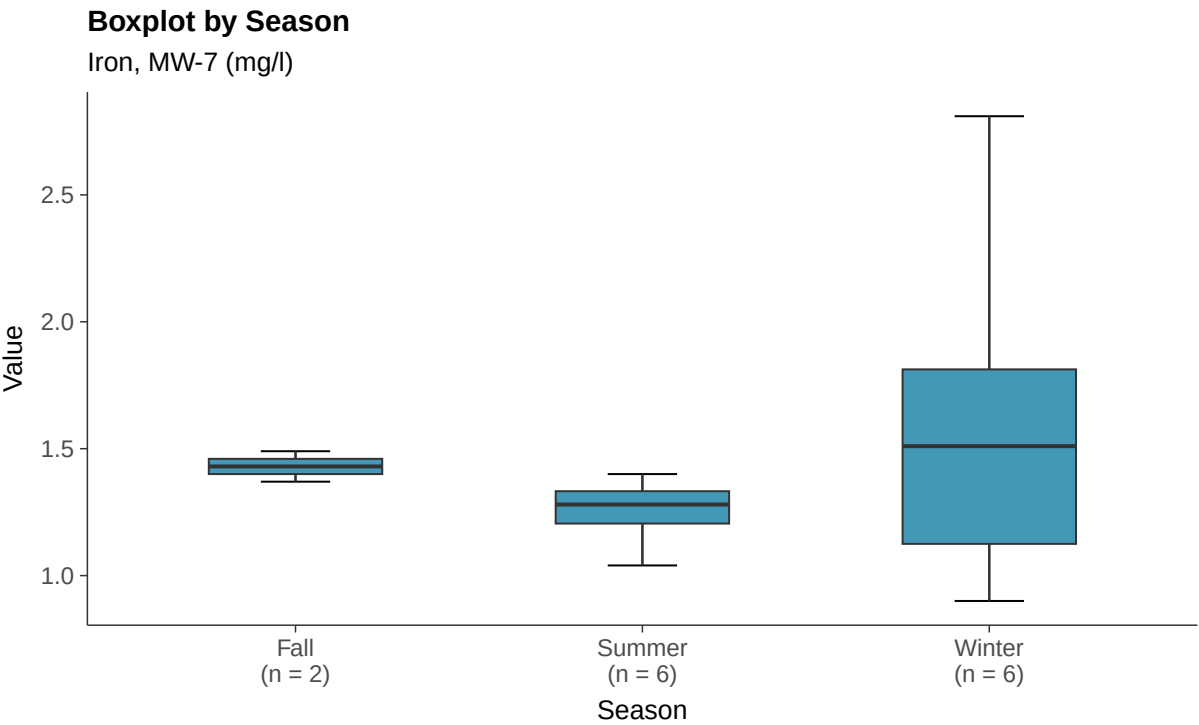
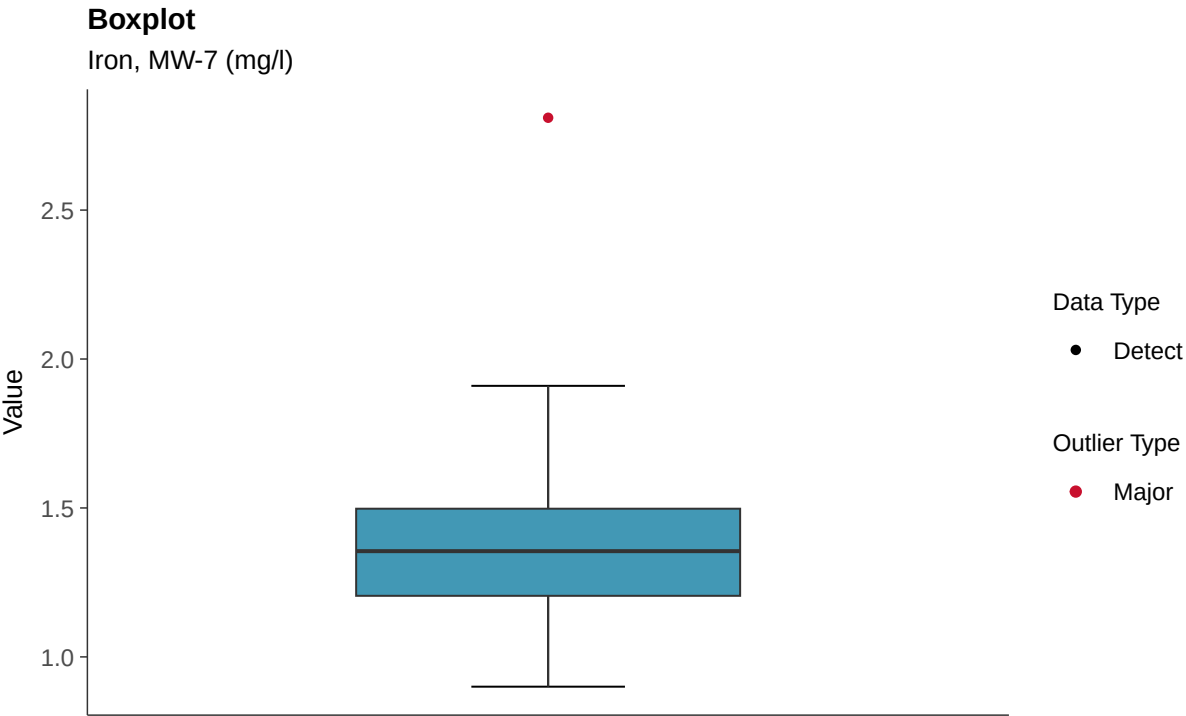




Part 115: Iron, MW-7

ID: 15_5_114

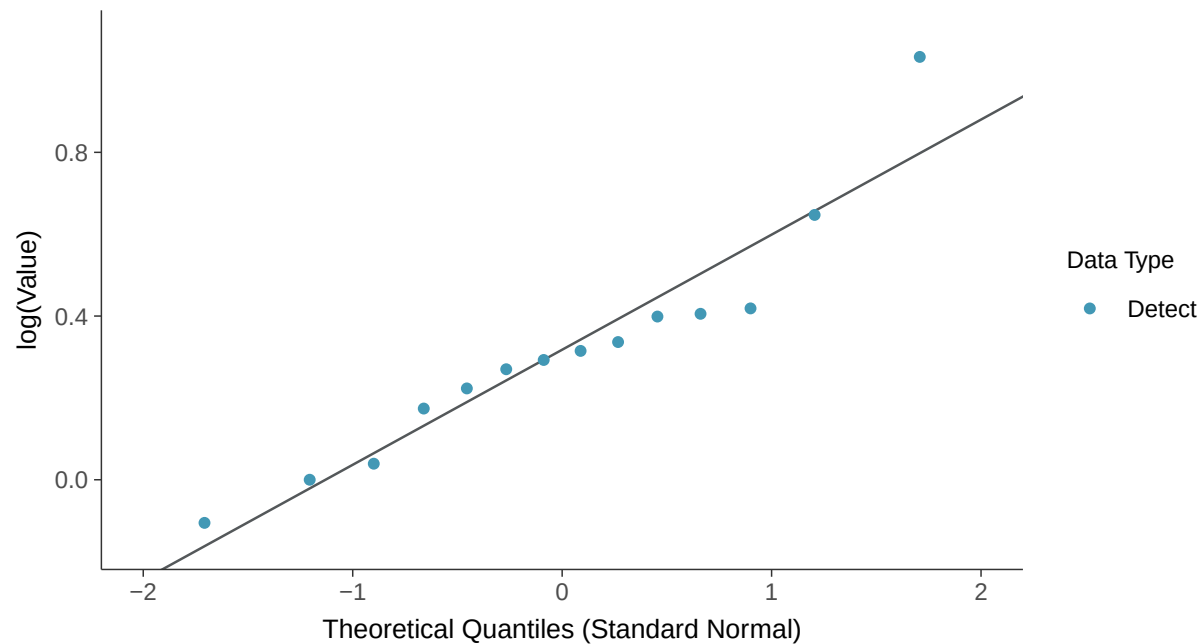






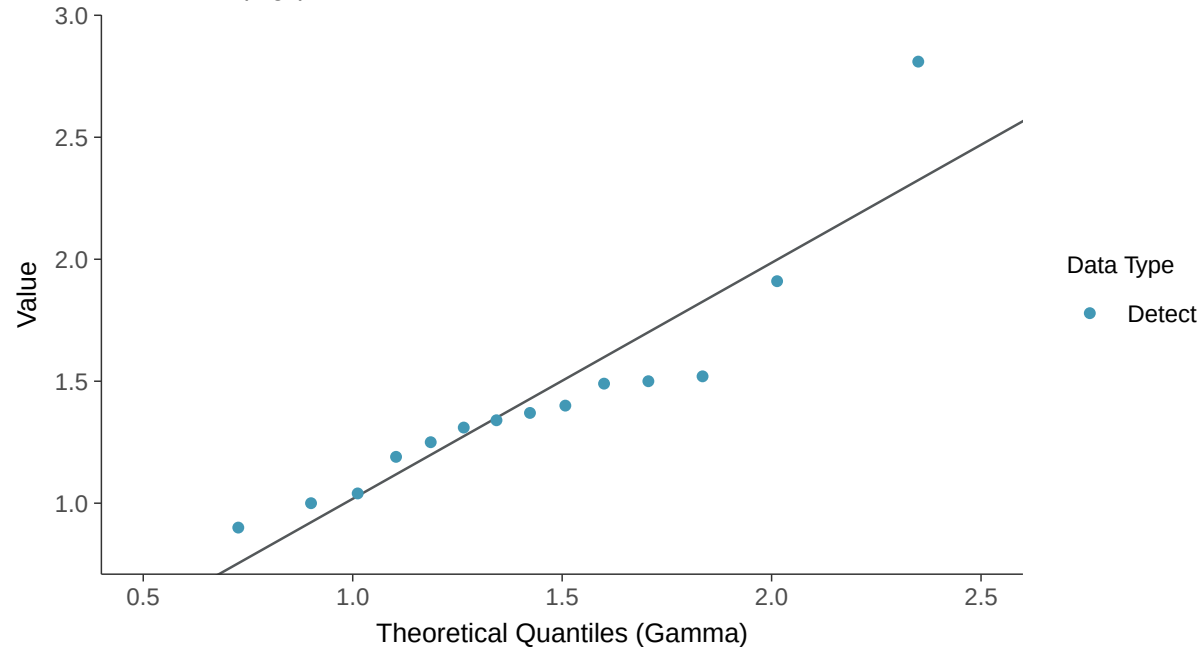
Lognormal Q-Q plot

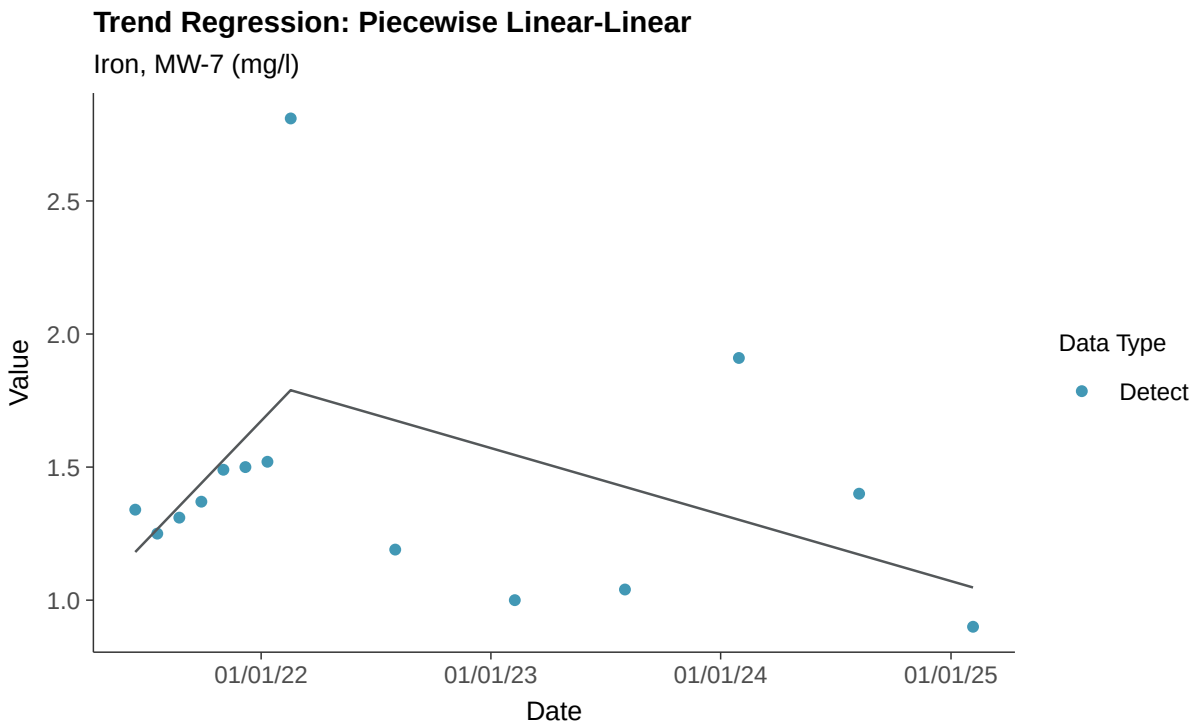
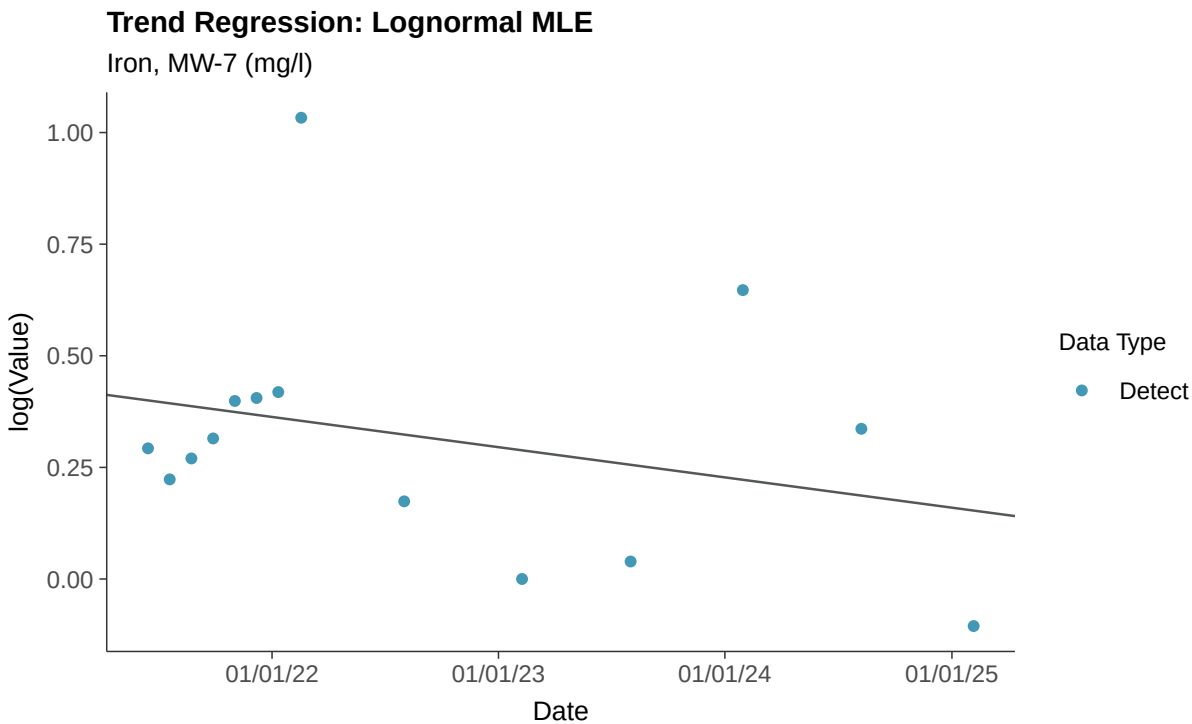
Iron, MW-7 (mg/l)



Gamma Q-Q plot

Iron, MW-7 (mg/l)

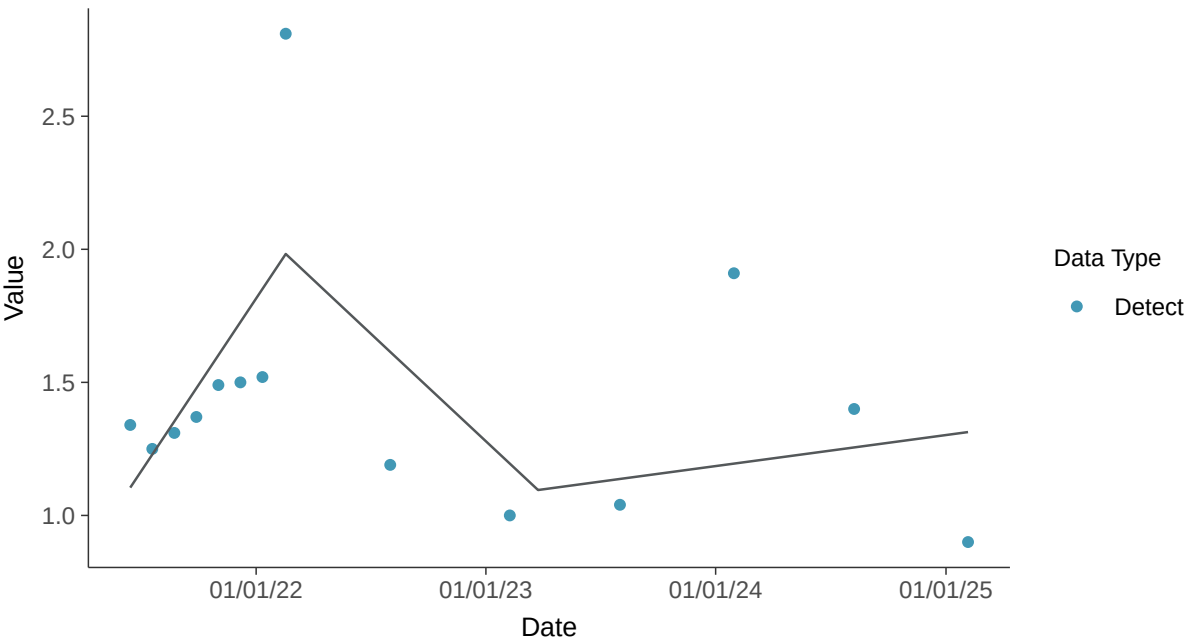






Trend Regression: Piecewise Linear-Linear-Linear

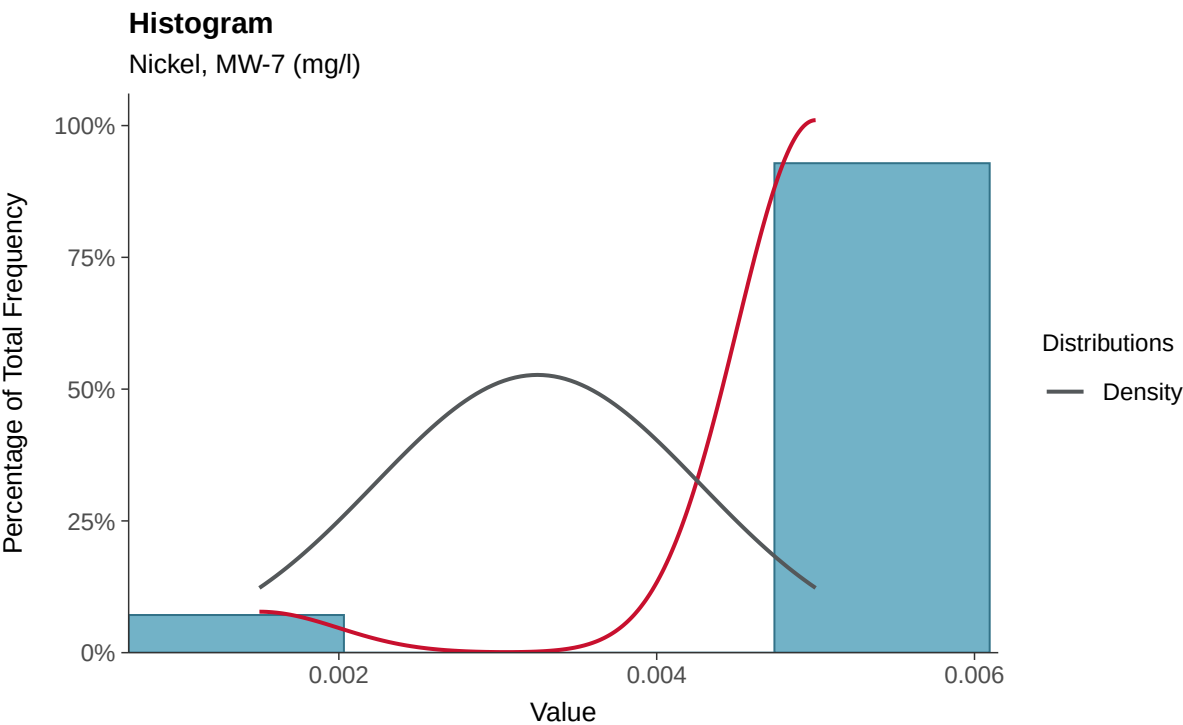
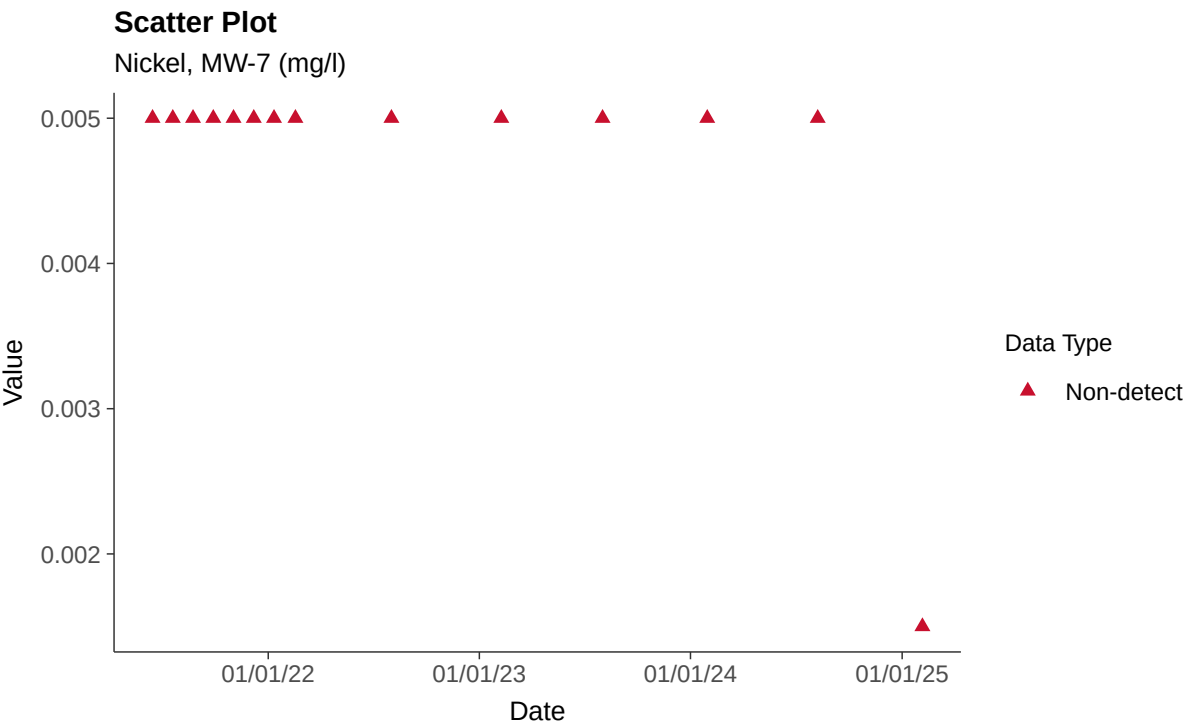
Iron, MW-7 (mg/l)

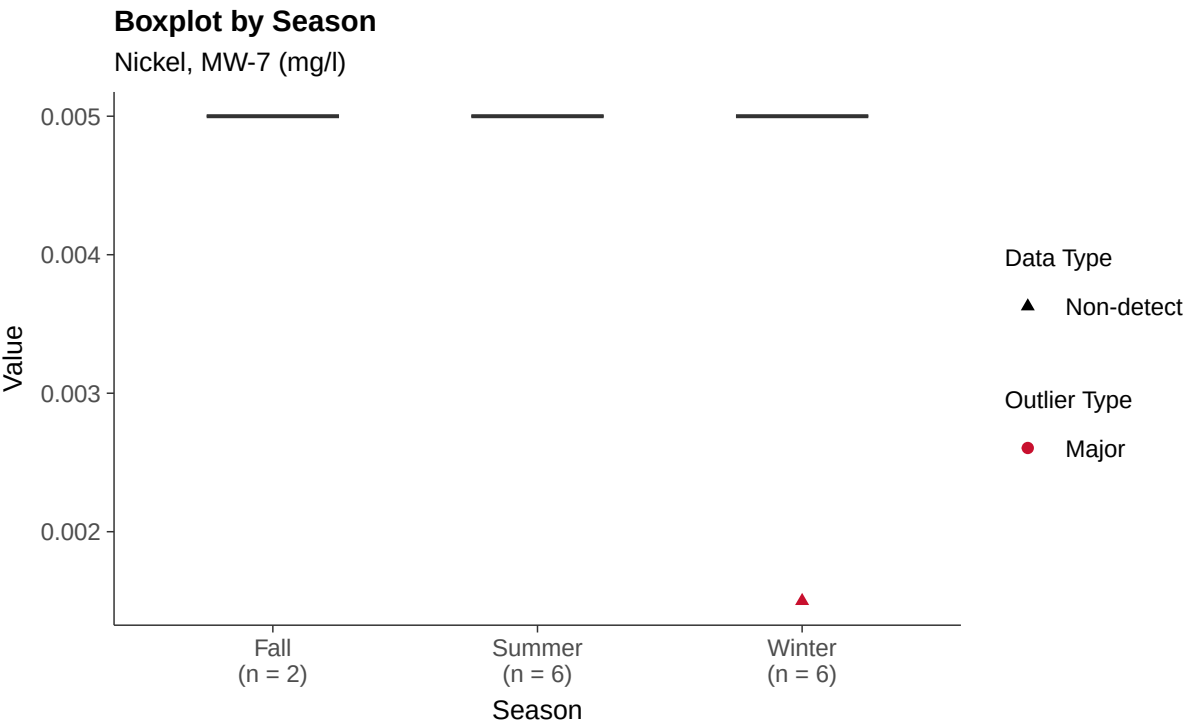
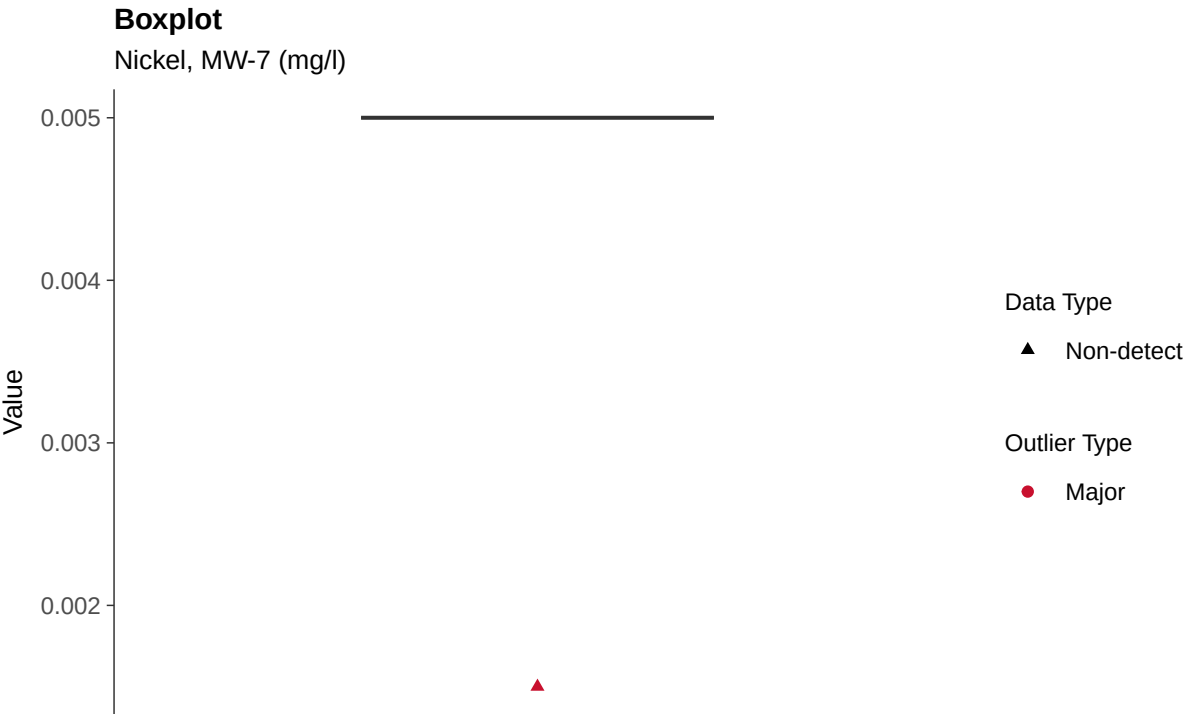




Part 115: Nickel, MW-7

ID: 15_5_119

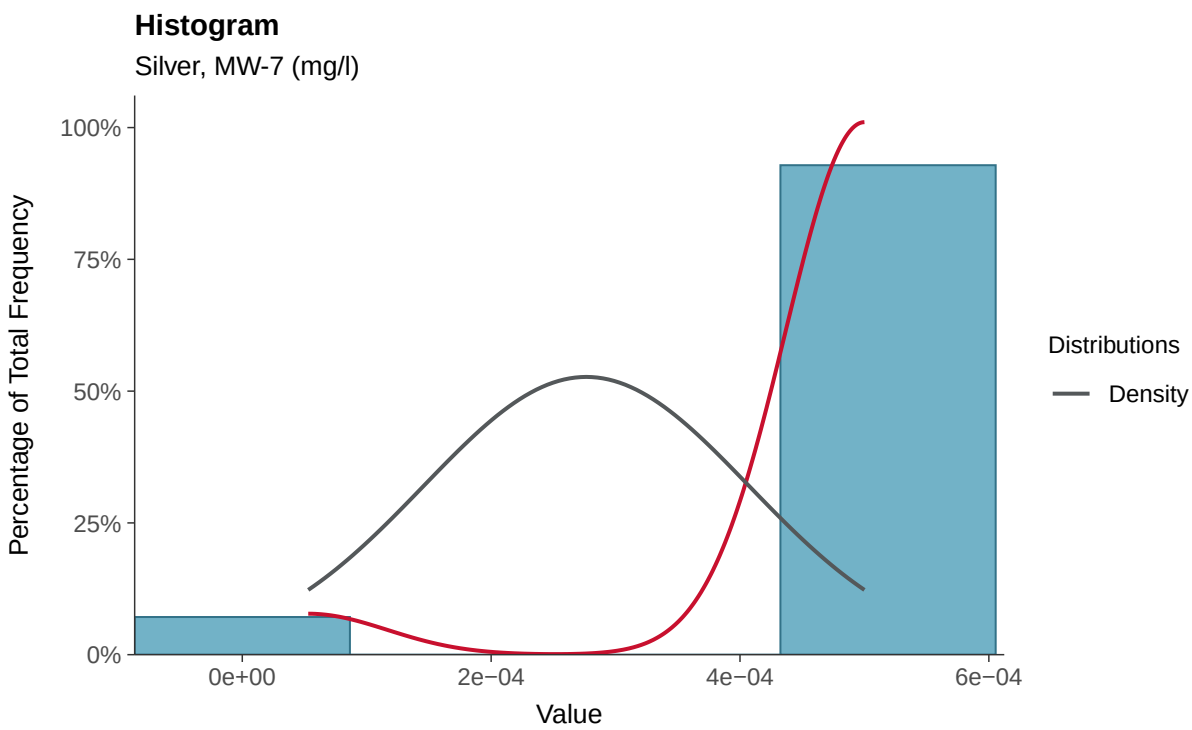
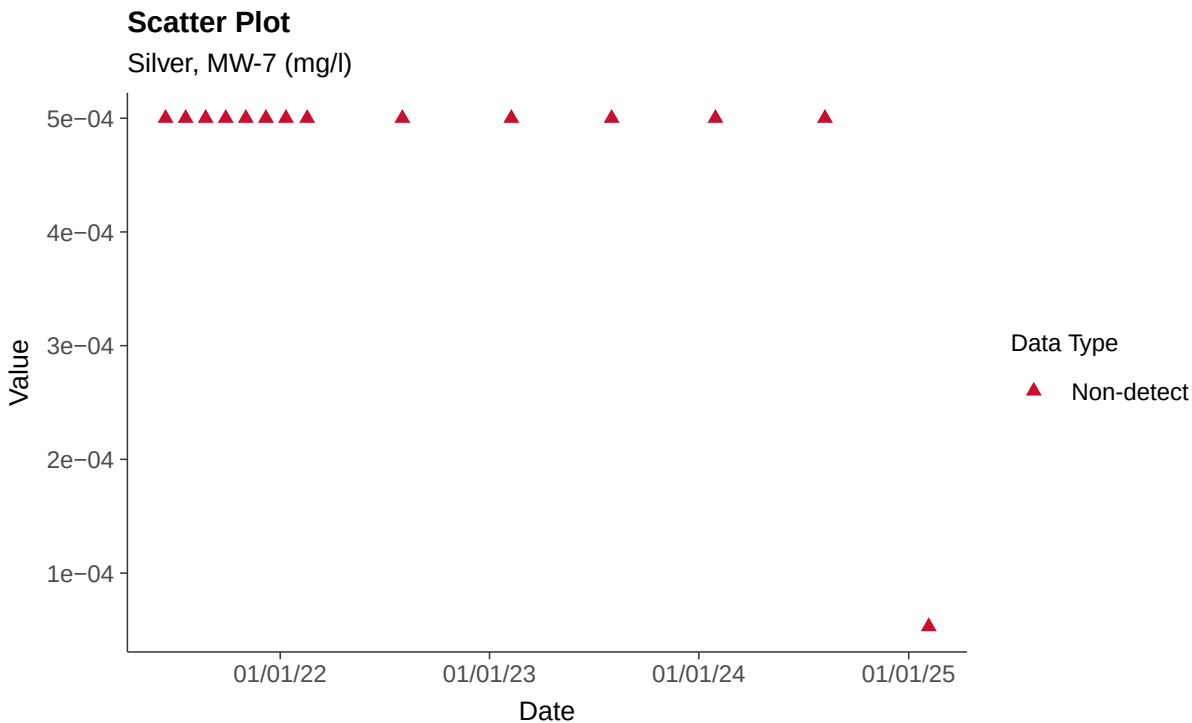


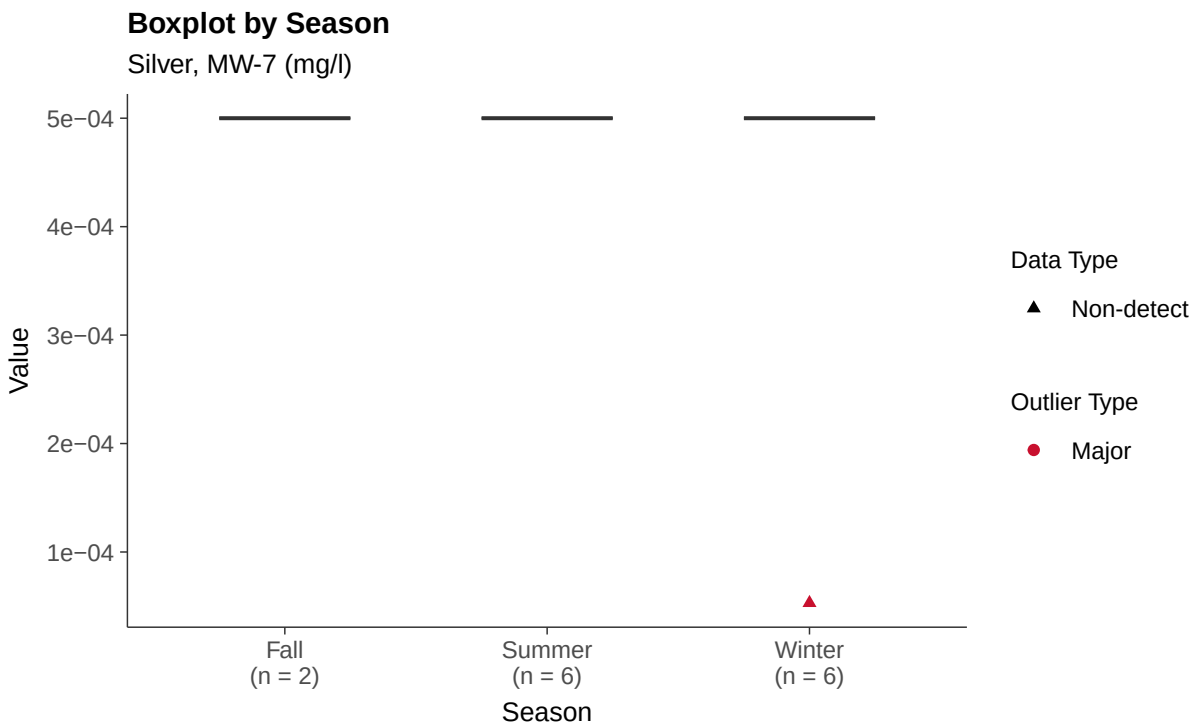
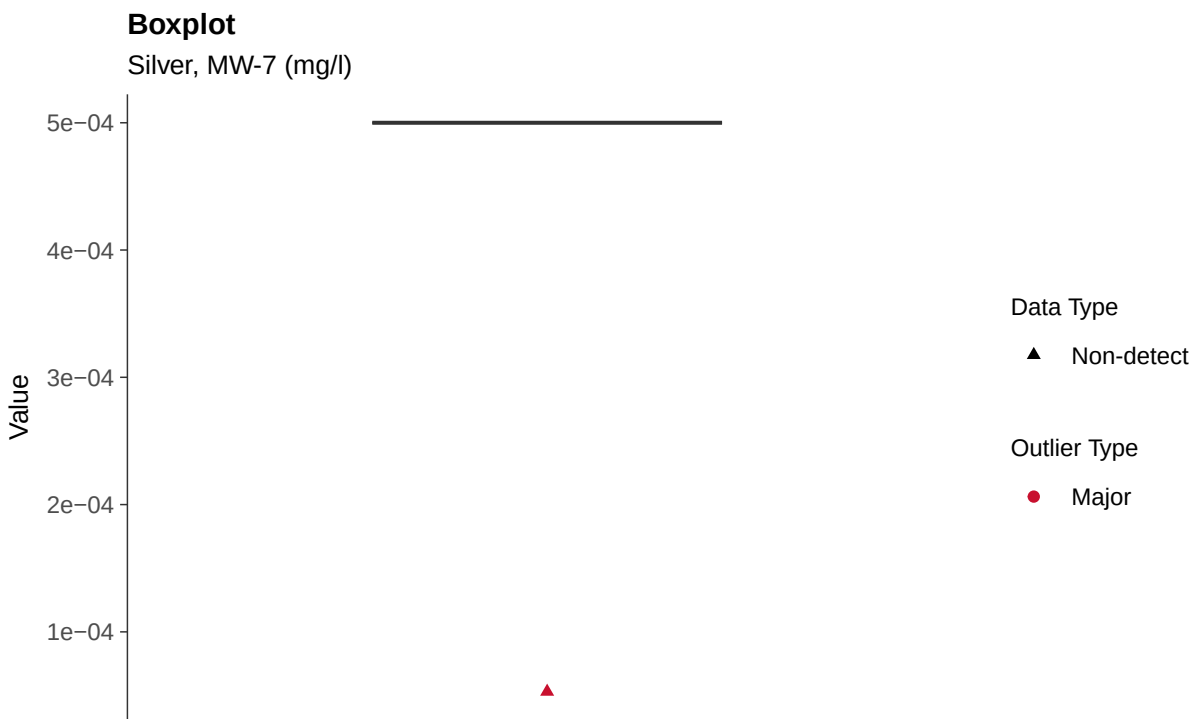




Part 115: Silver, MW-7

ID: 15_5_123

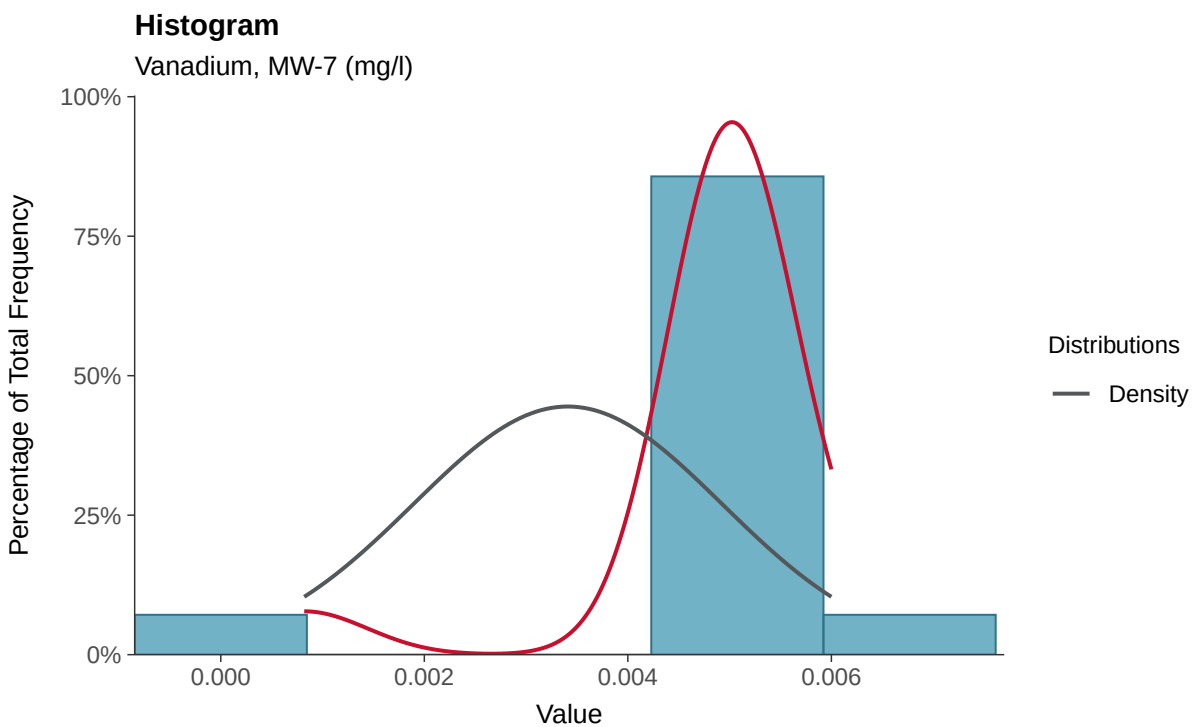
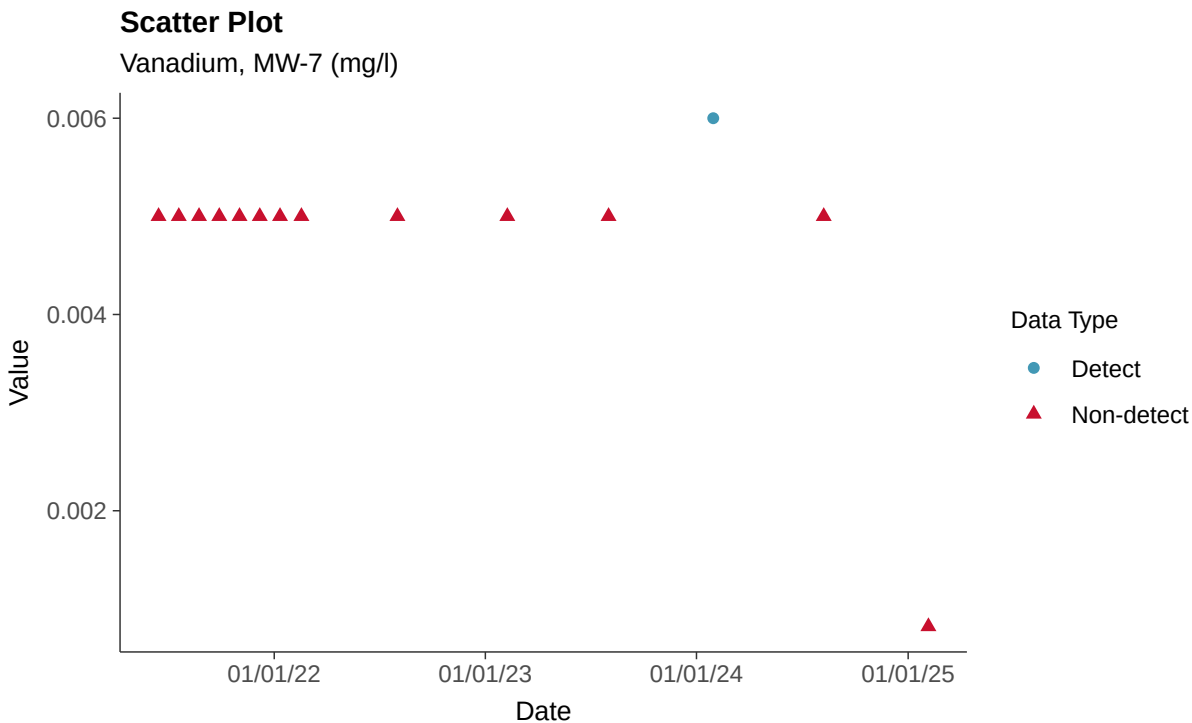


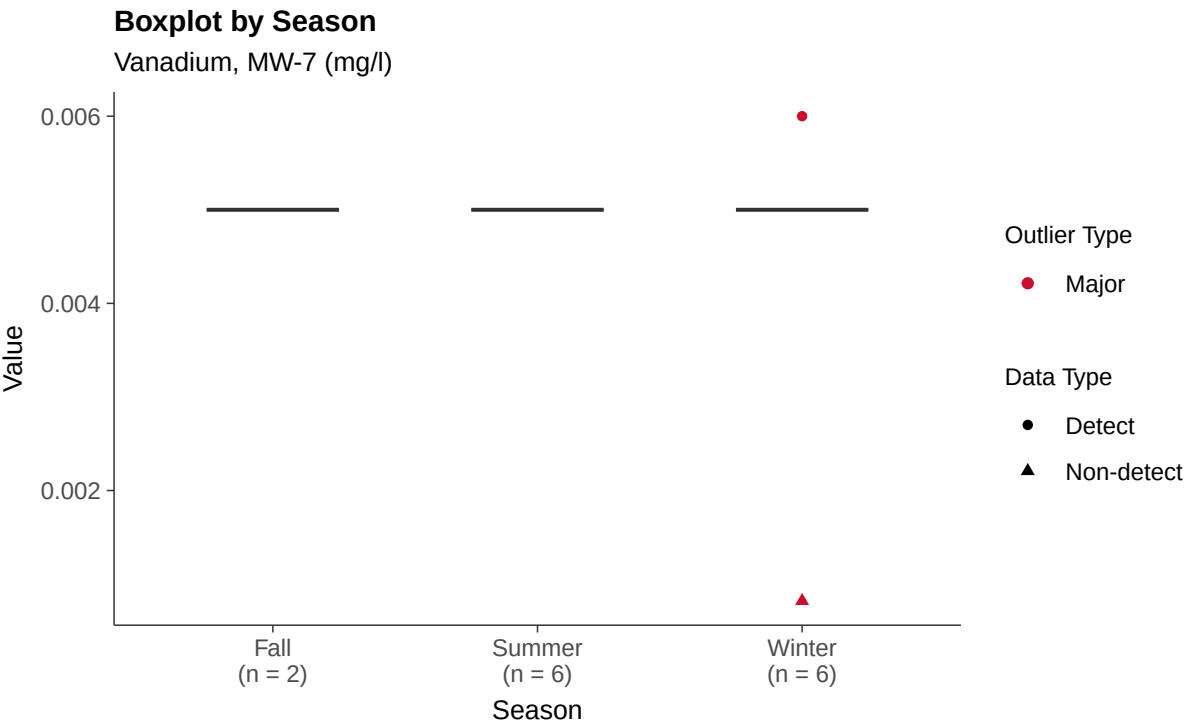
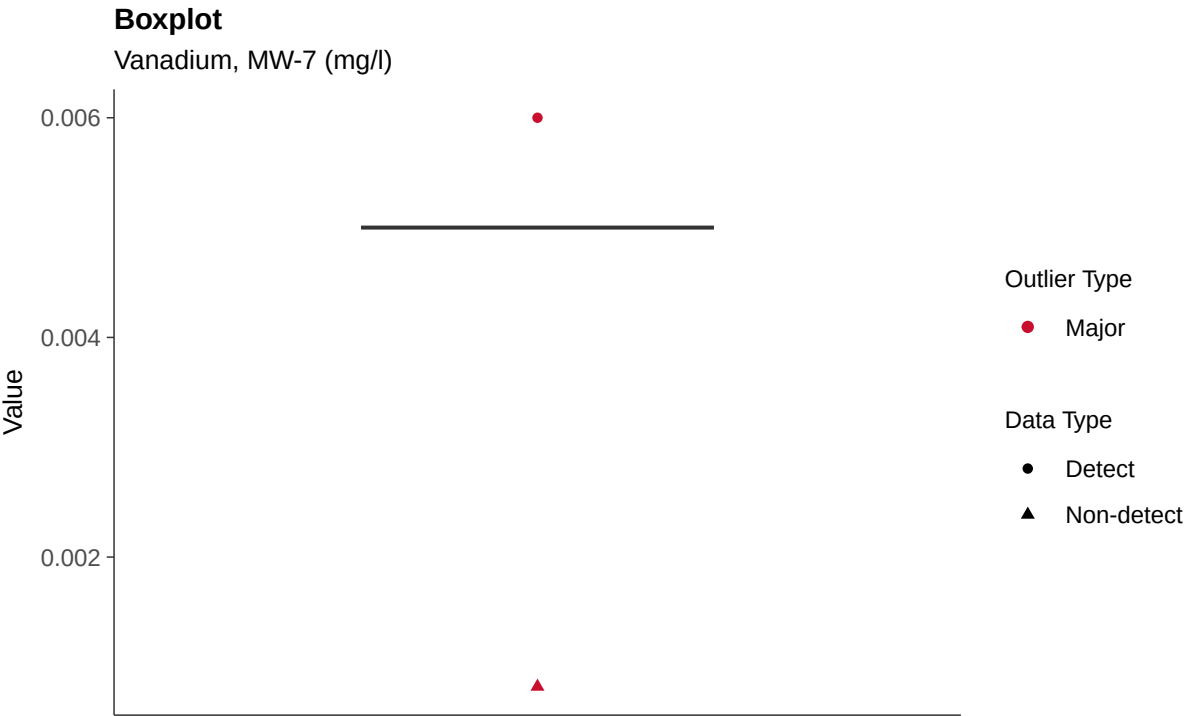


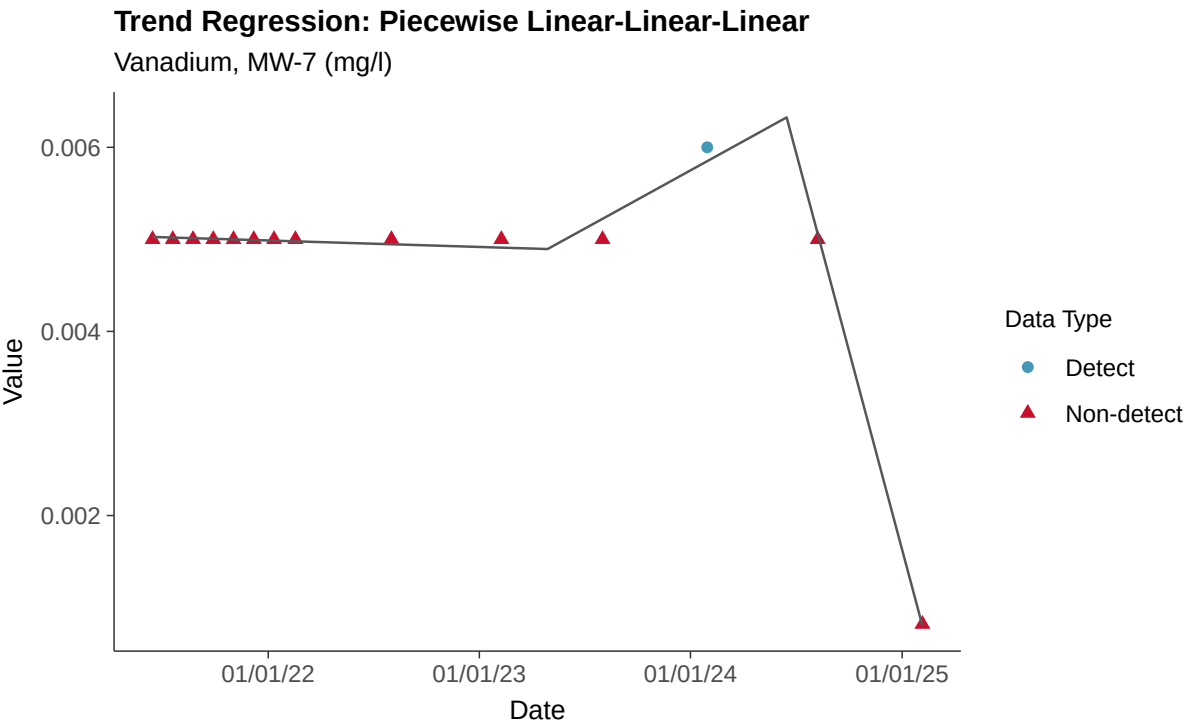
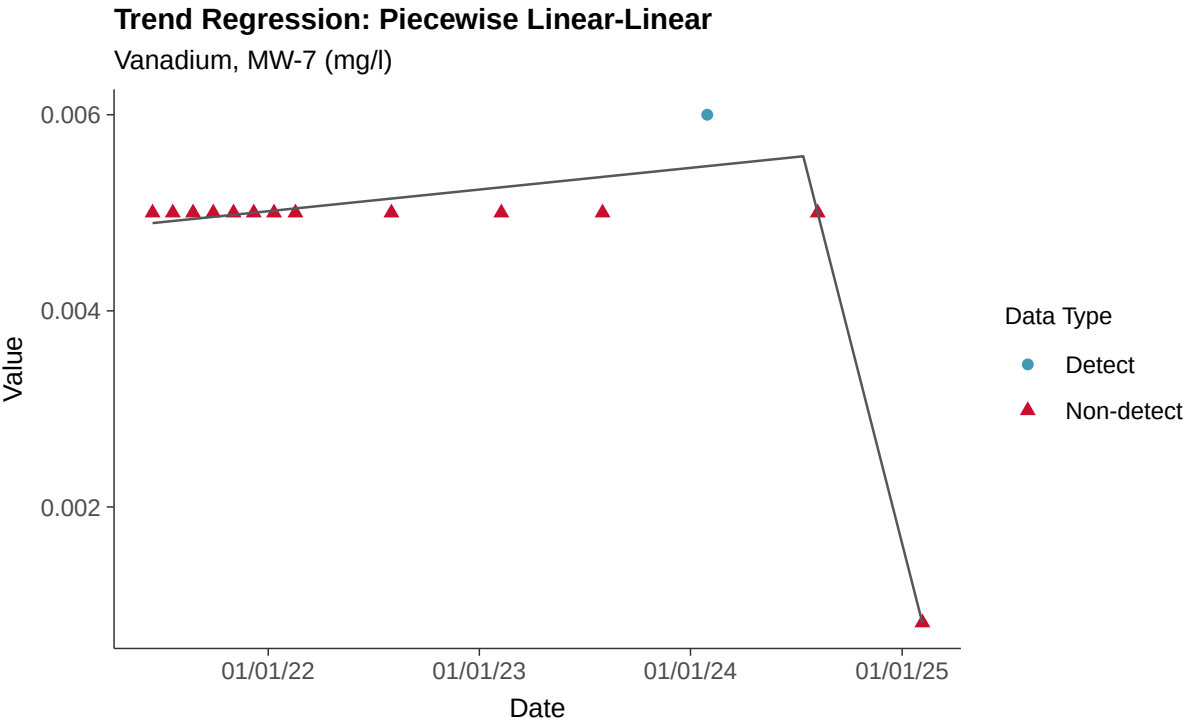


Part 115: Vanadium, MW-7

ID: 15_5_128



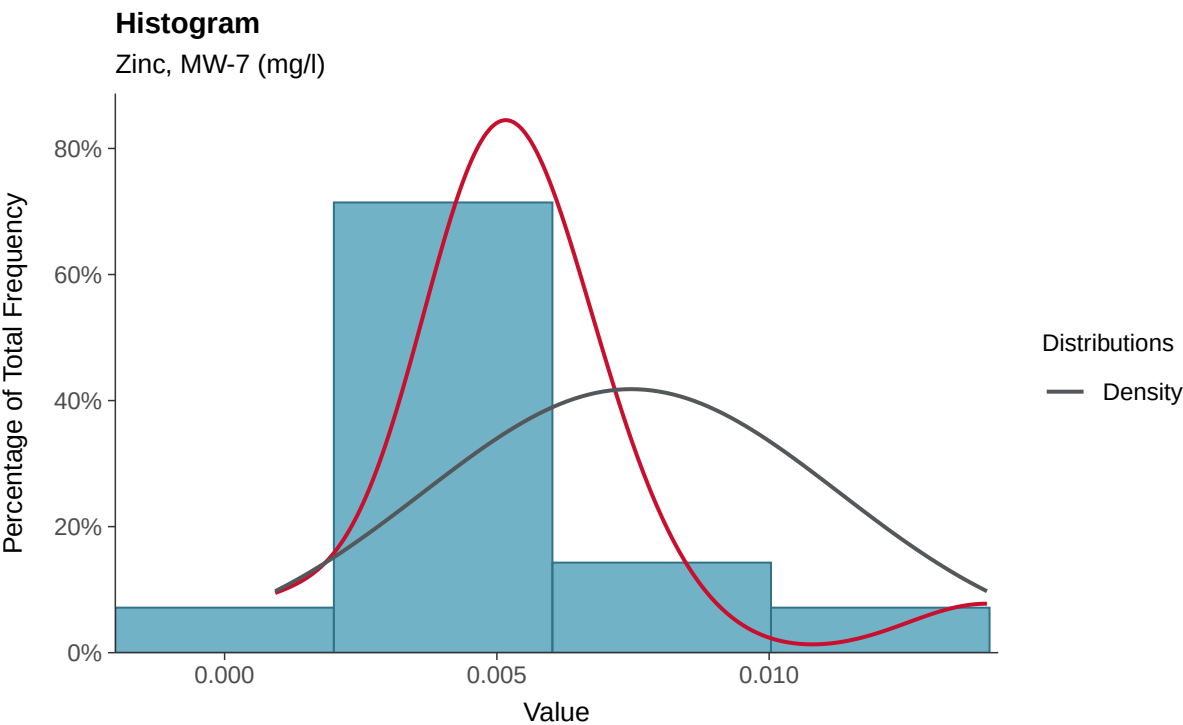
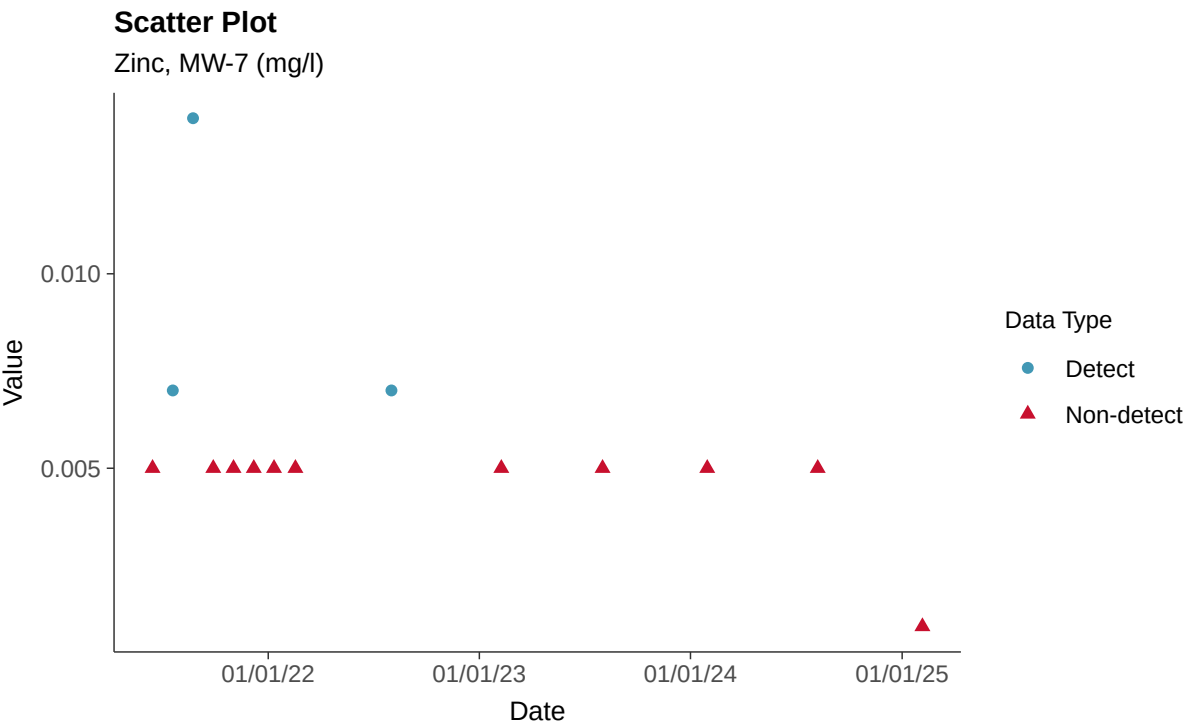


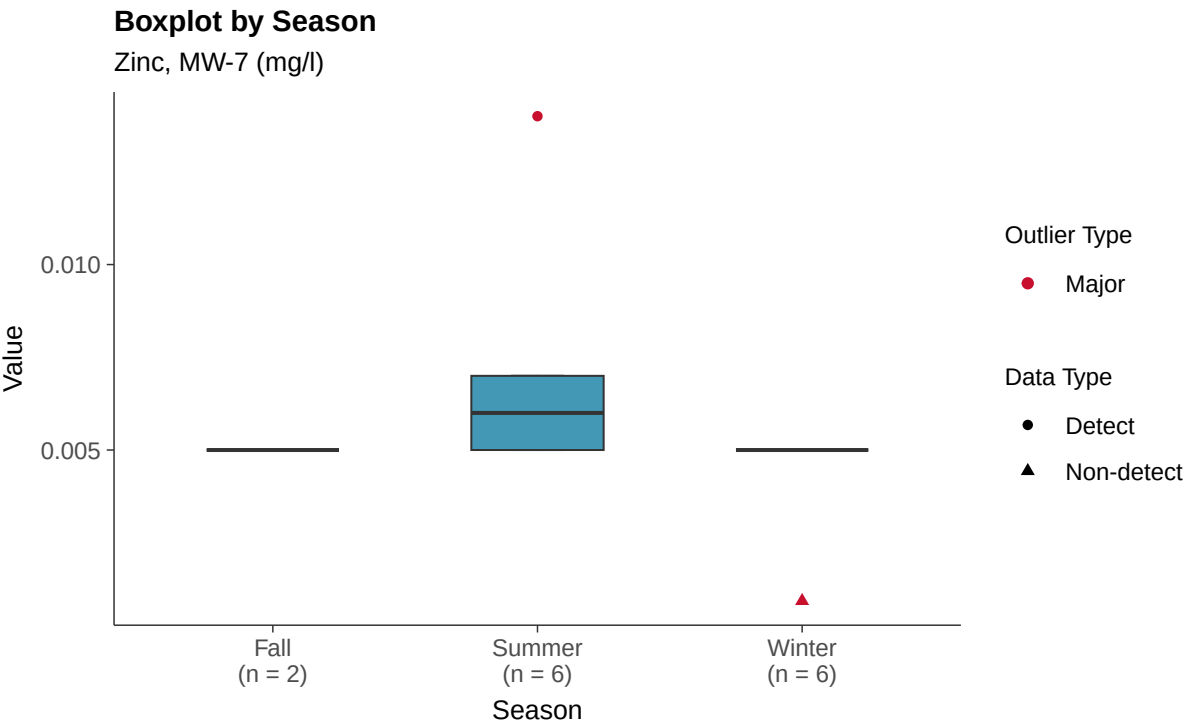
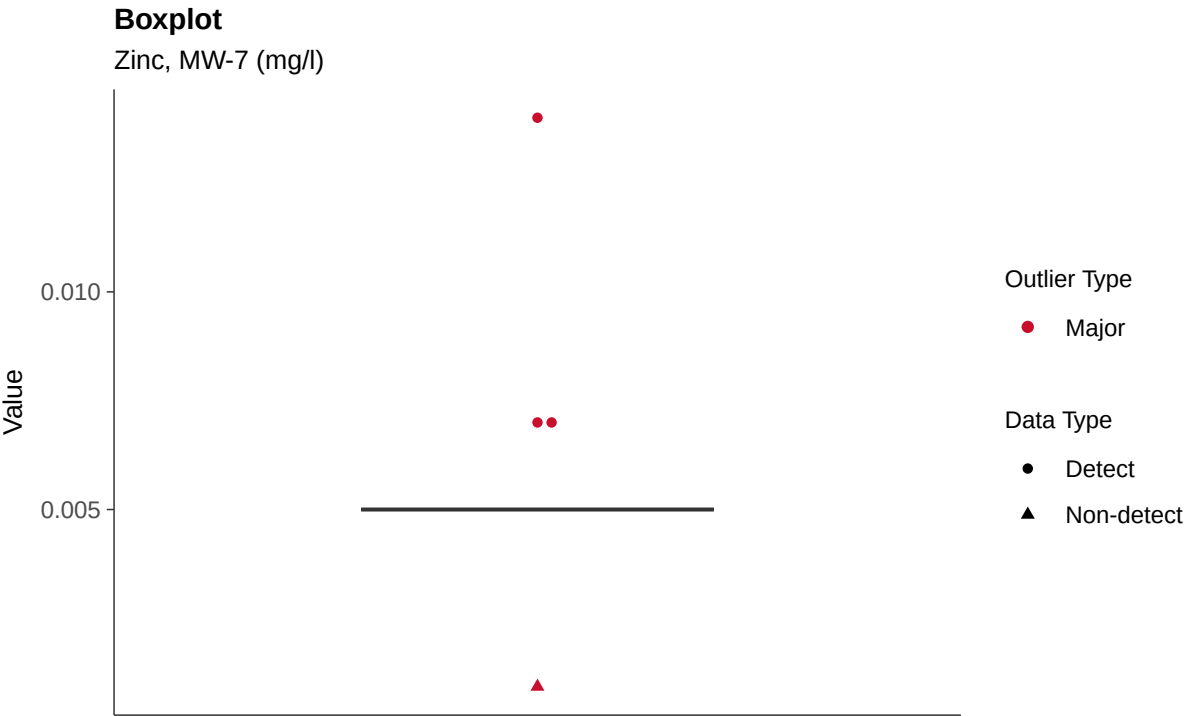


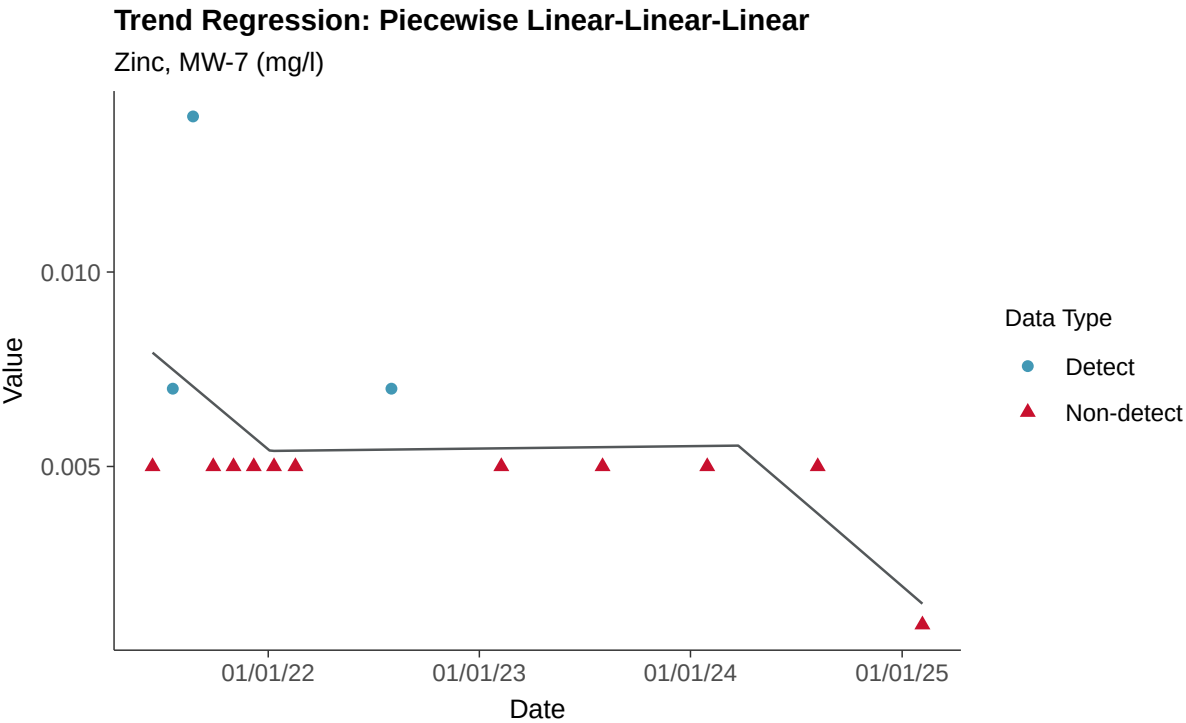
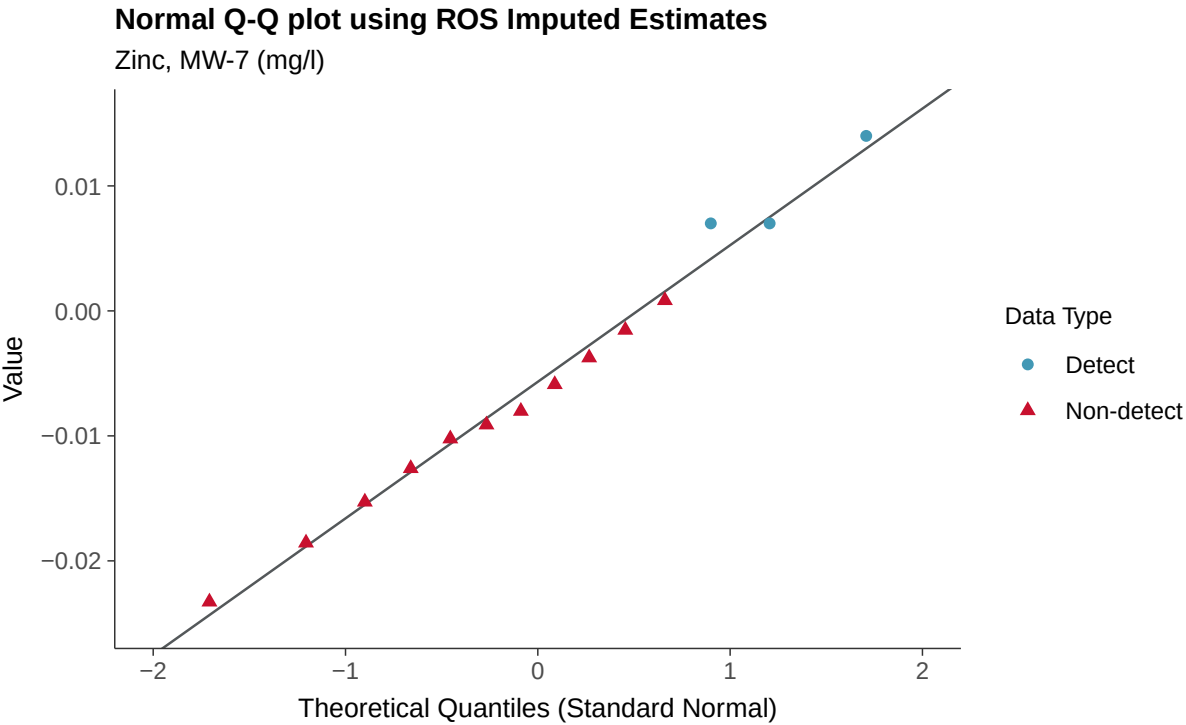


Part 115: Zinc, MW-7

ID: 15_5_129



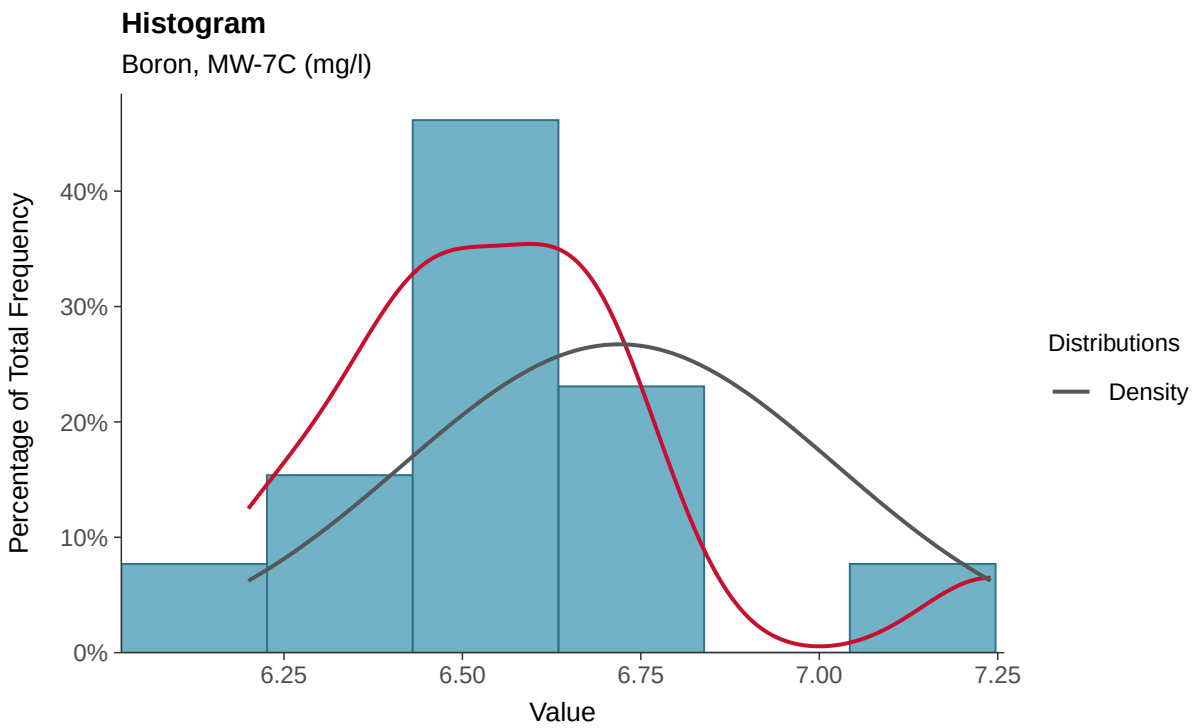
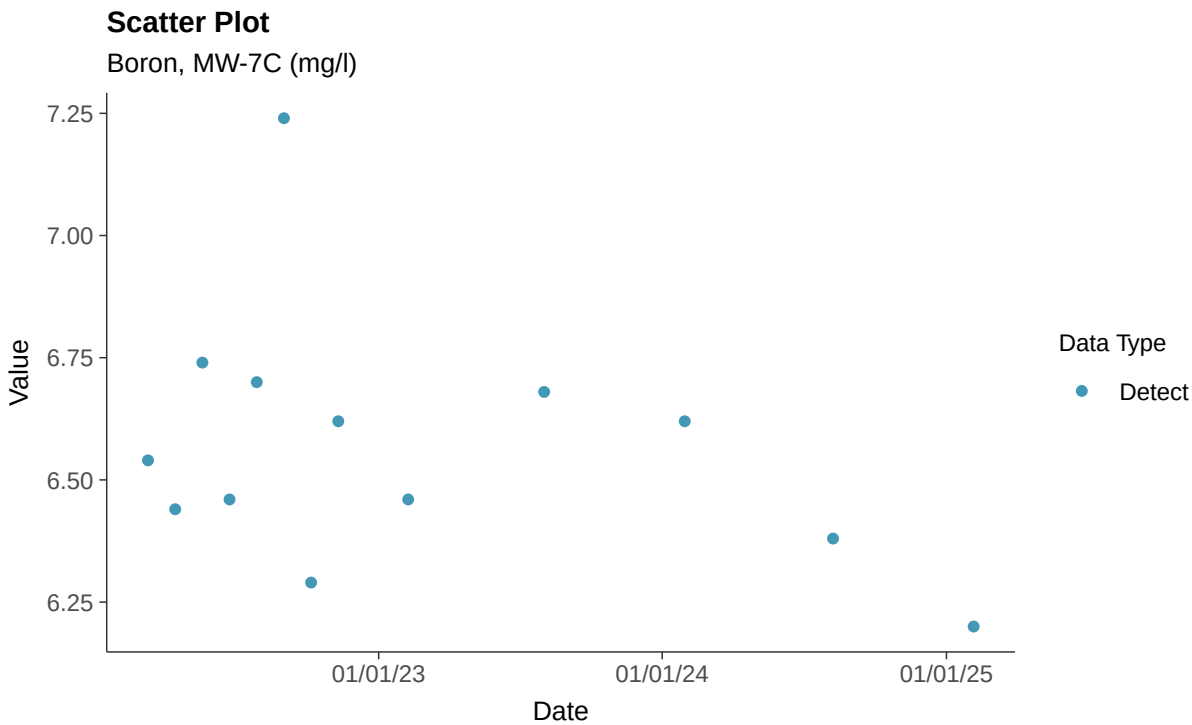


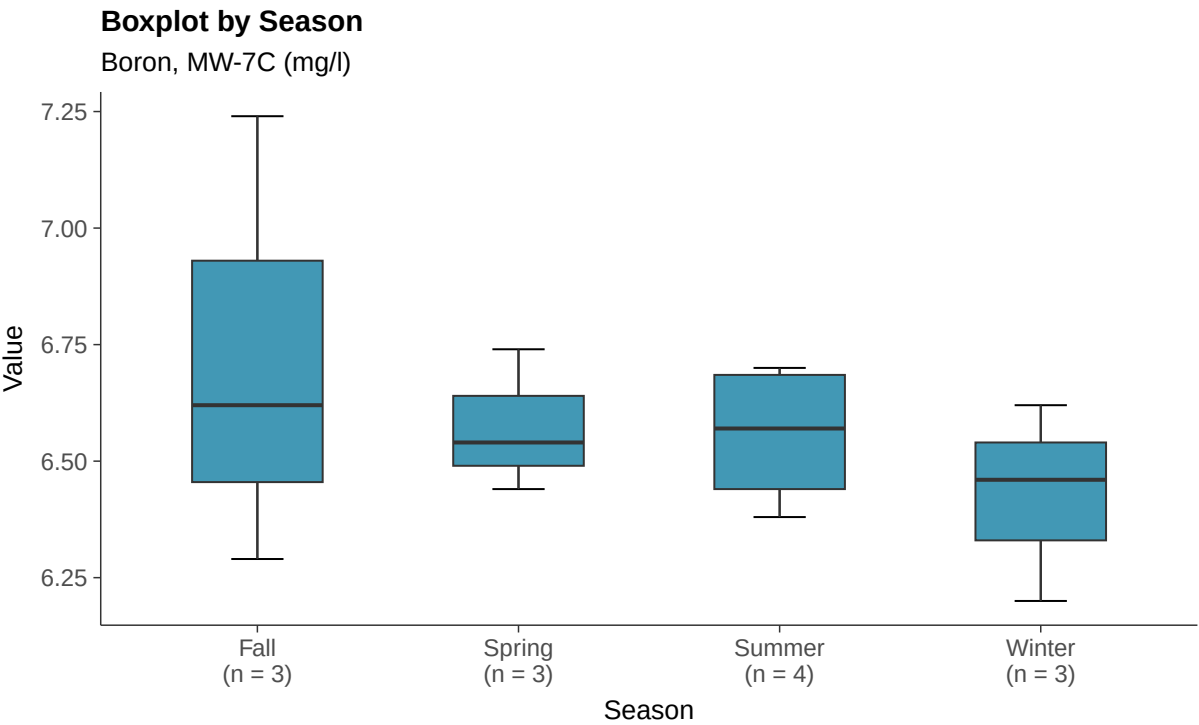
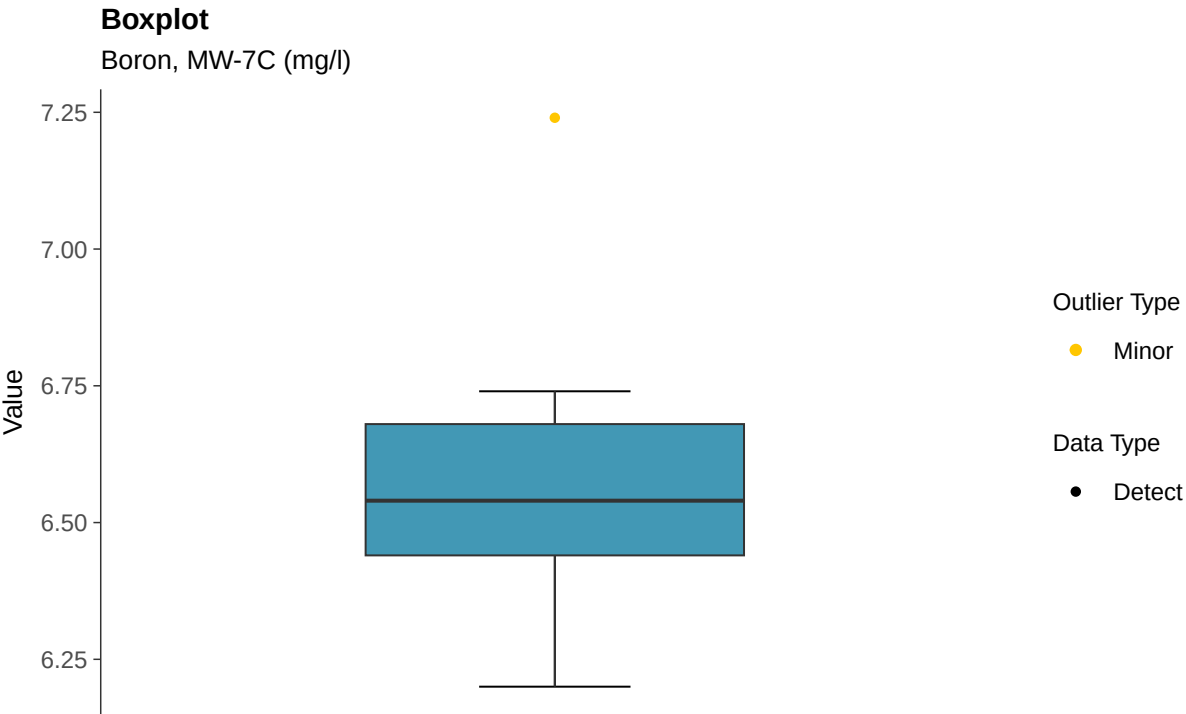


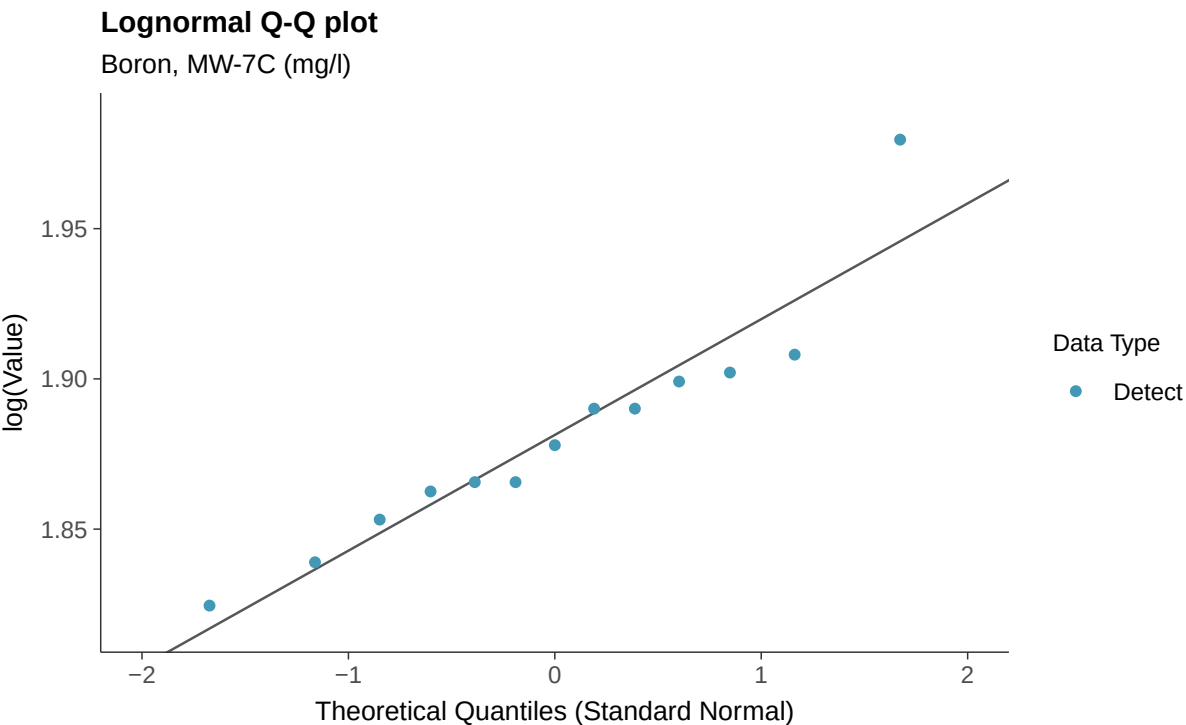
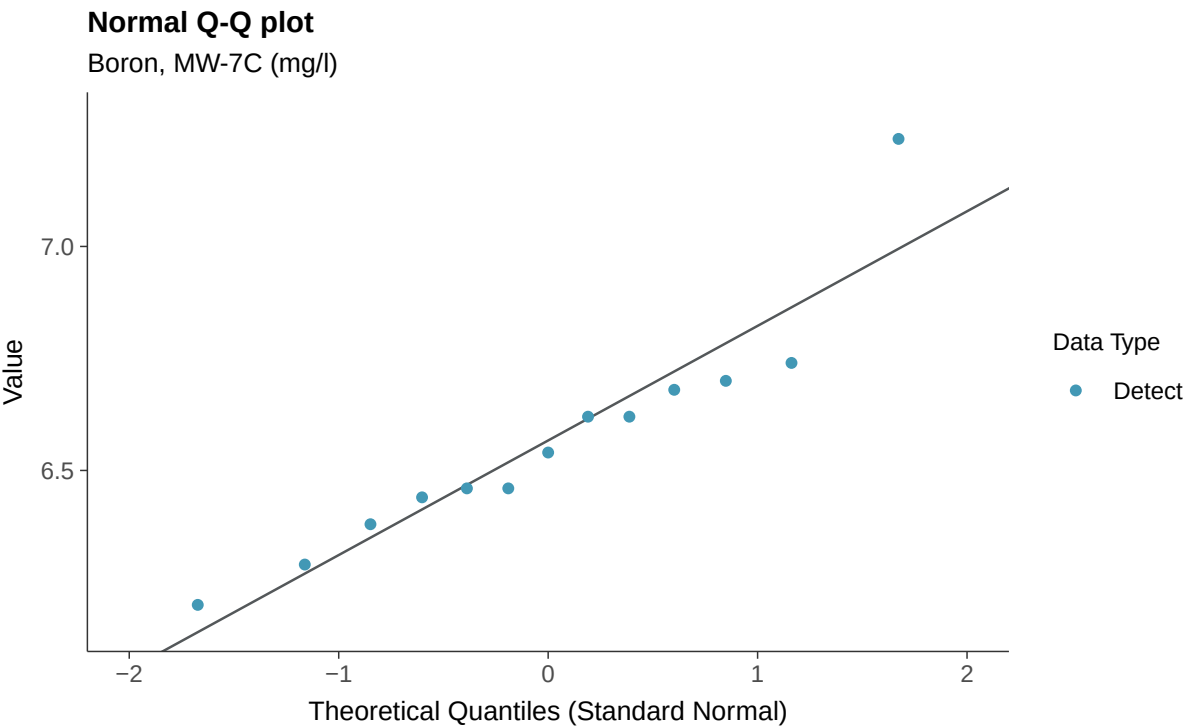


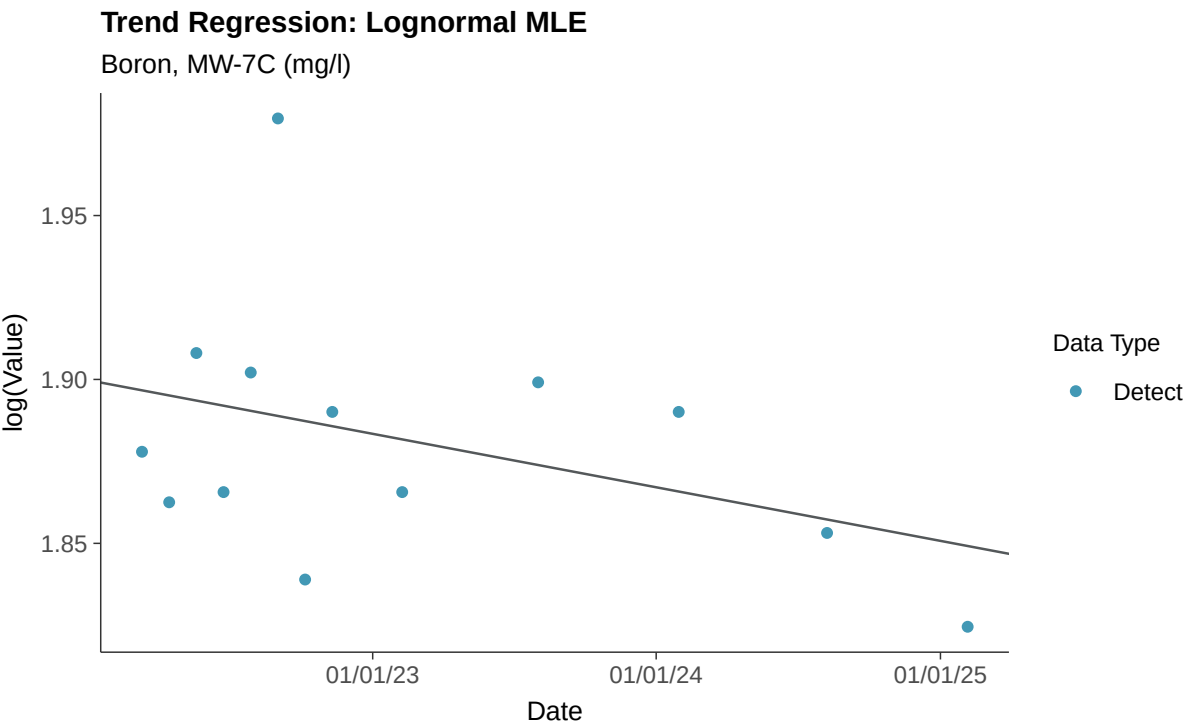
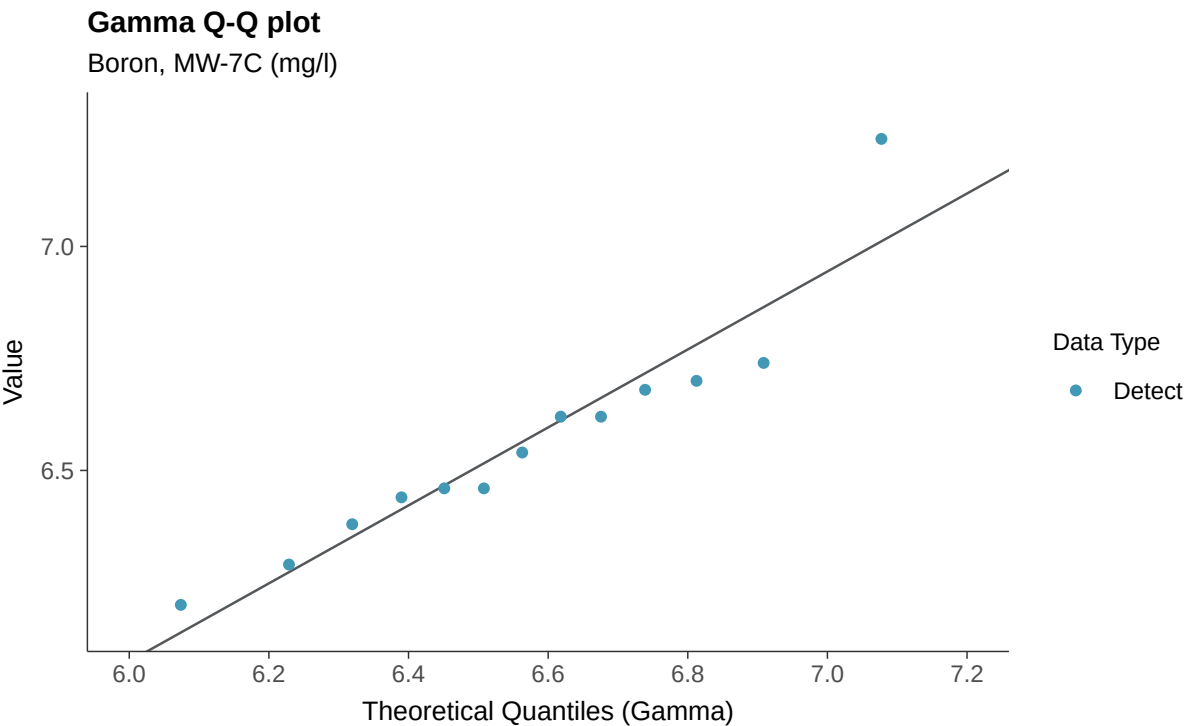
Appendix III: Boron, MW-7C

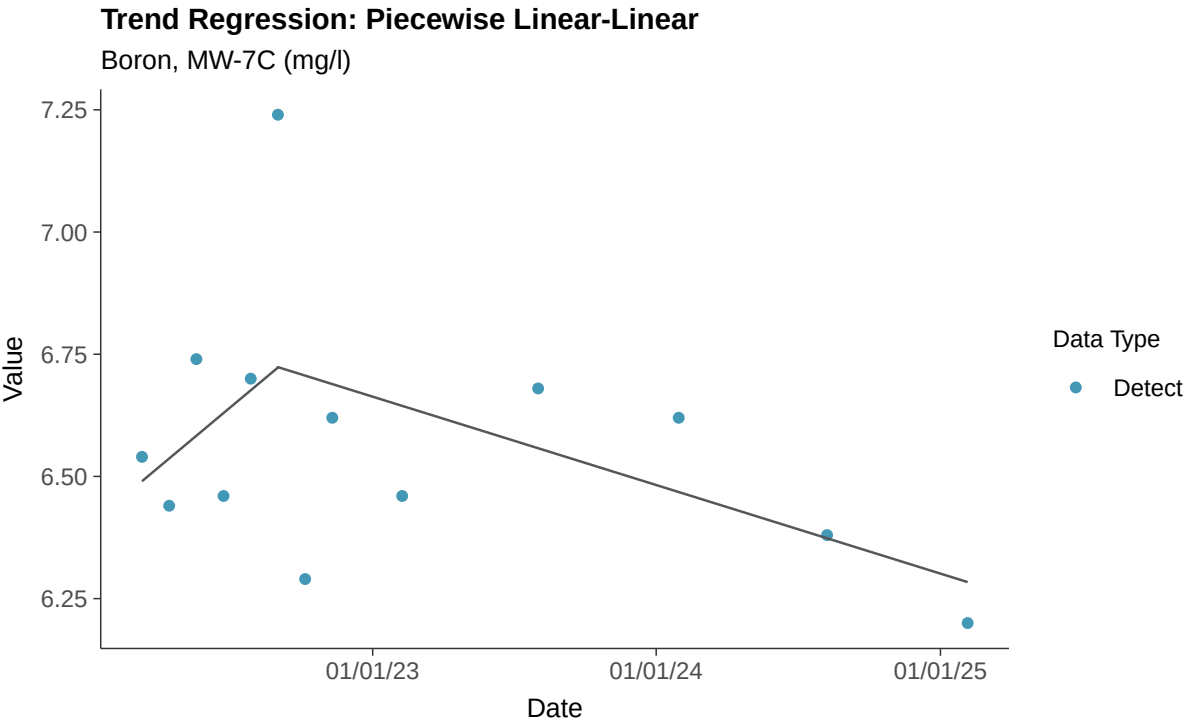
ID: 16_2_105







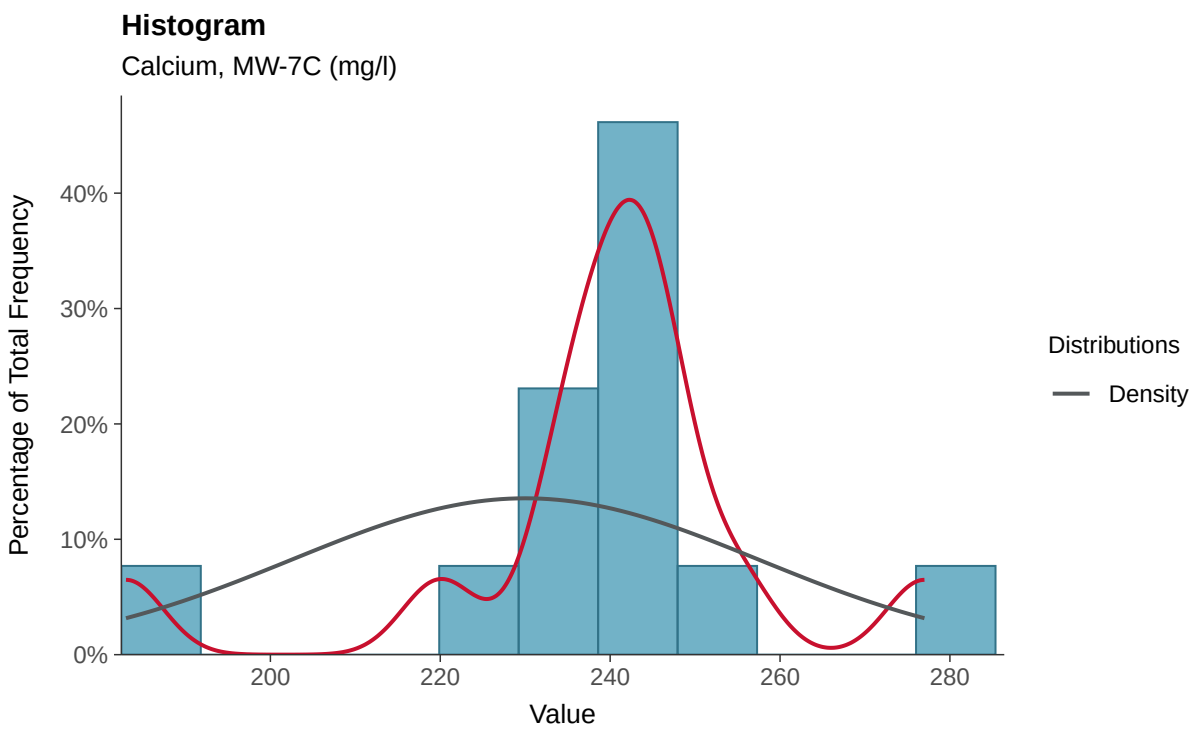
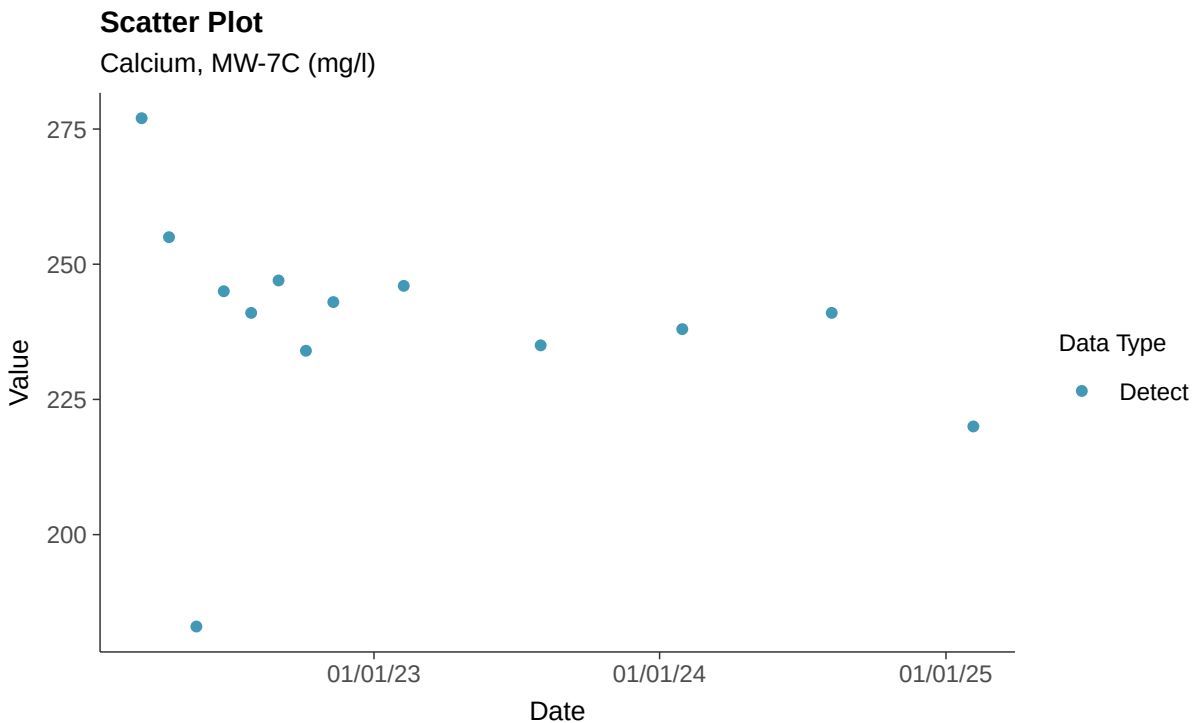


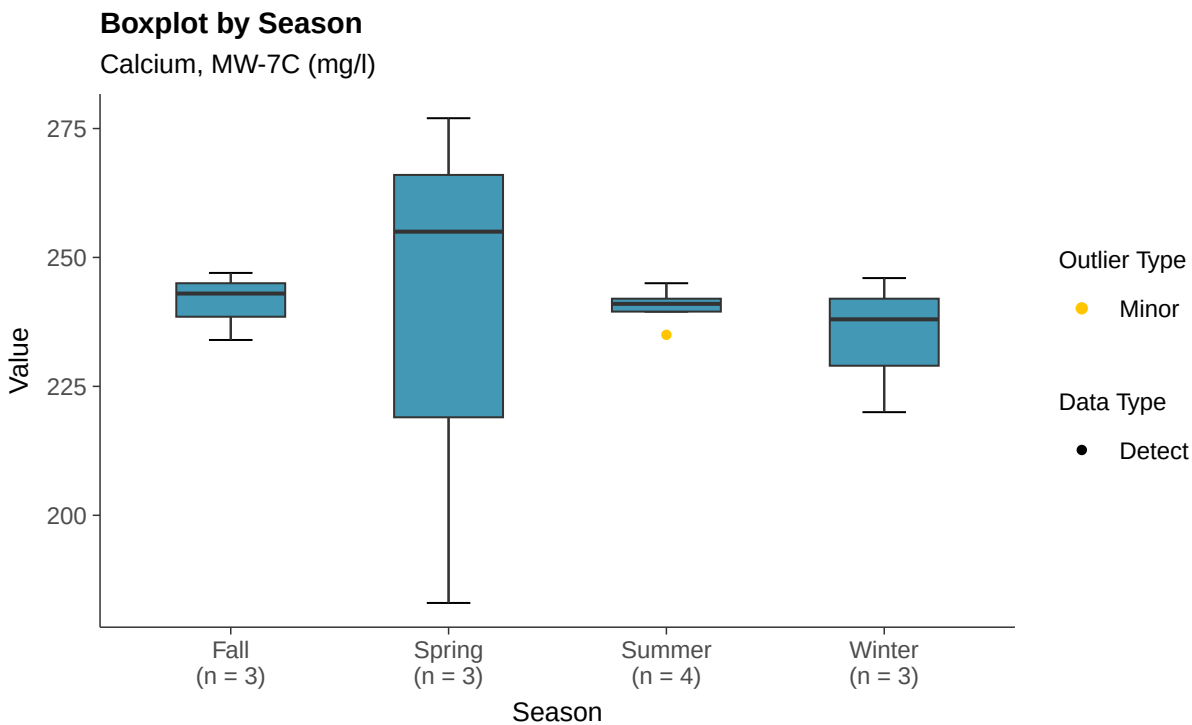
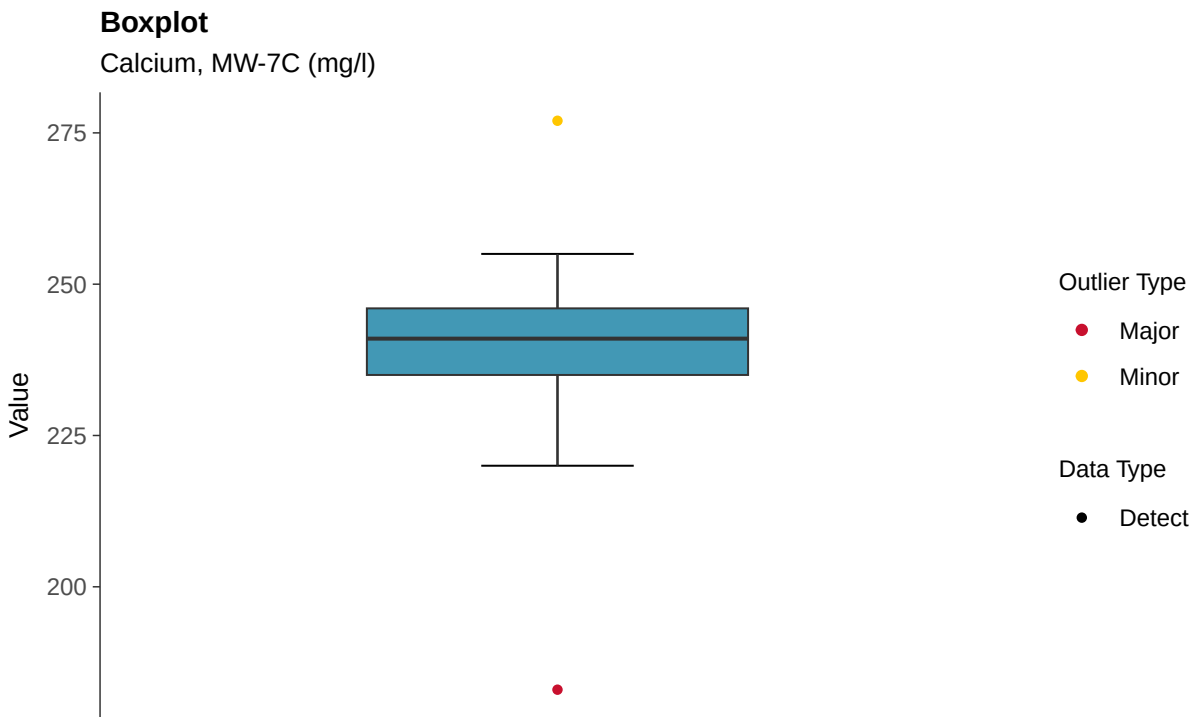


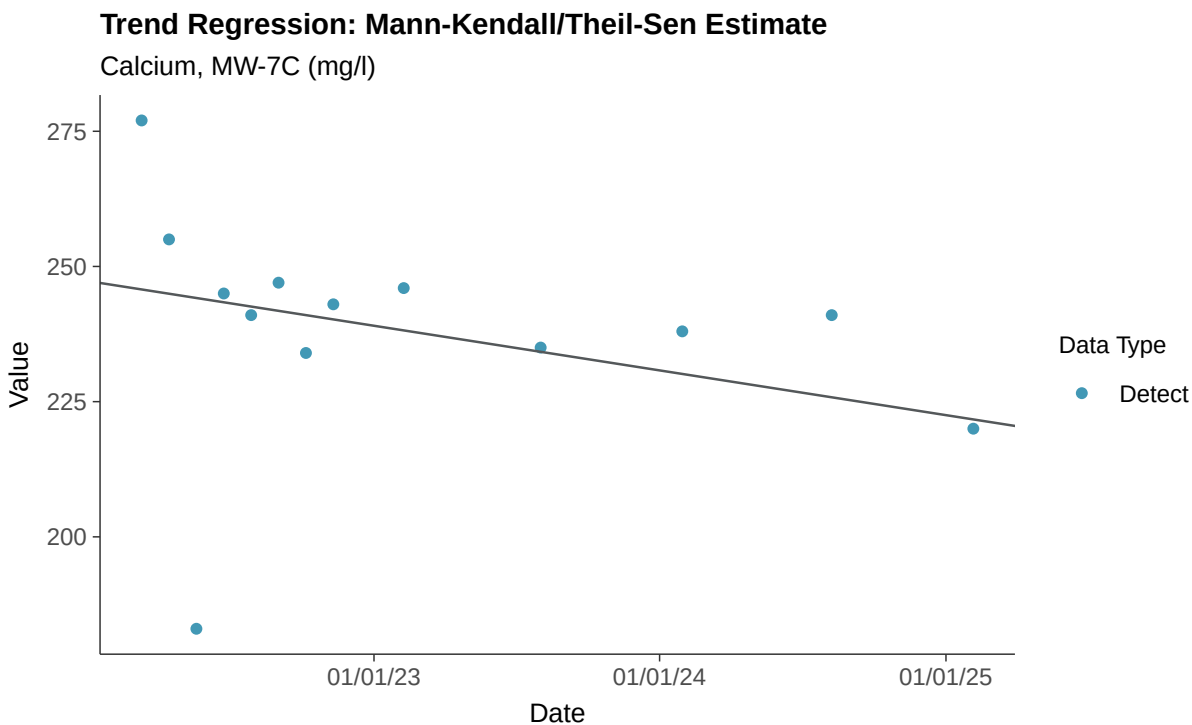
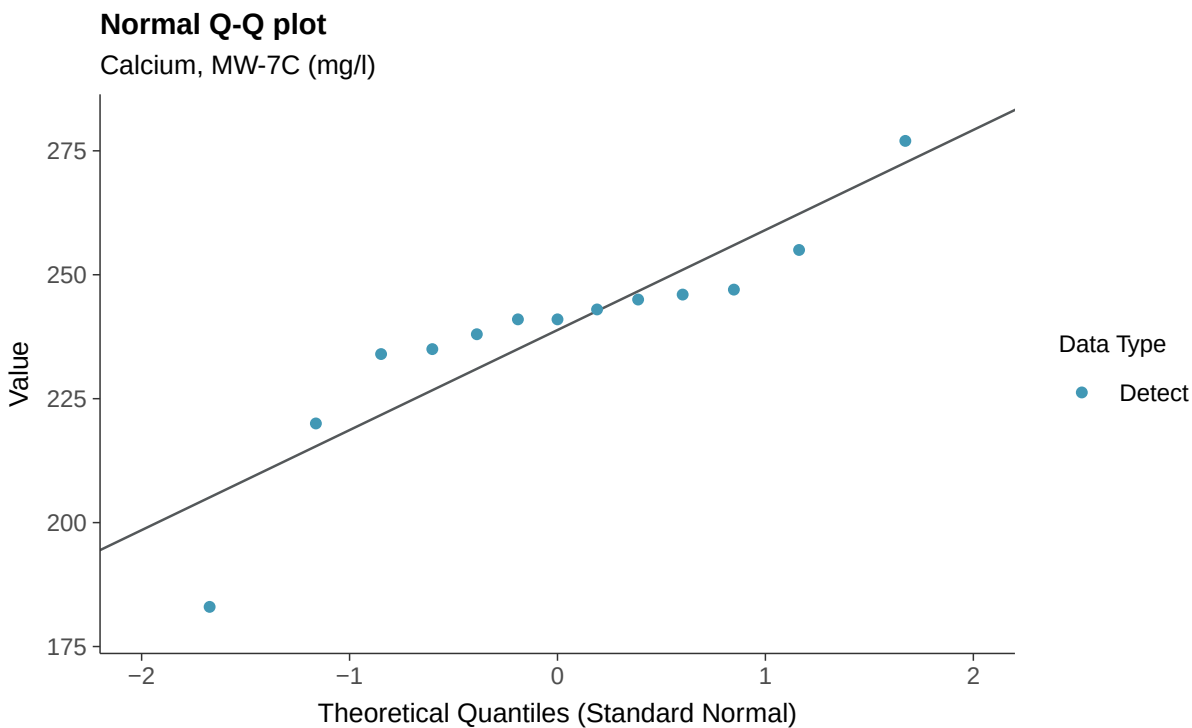


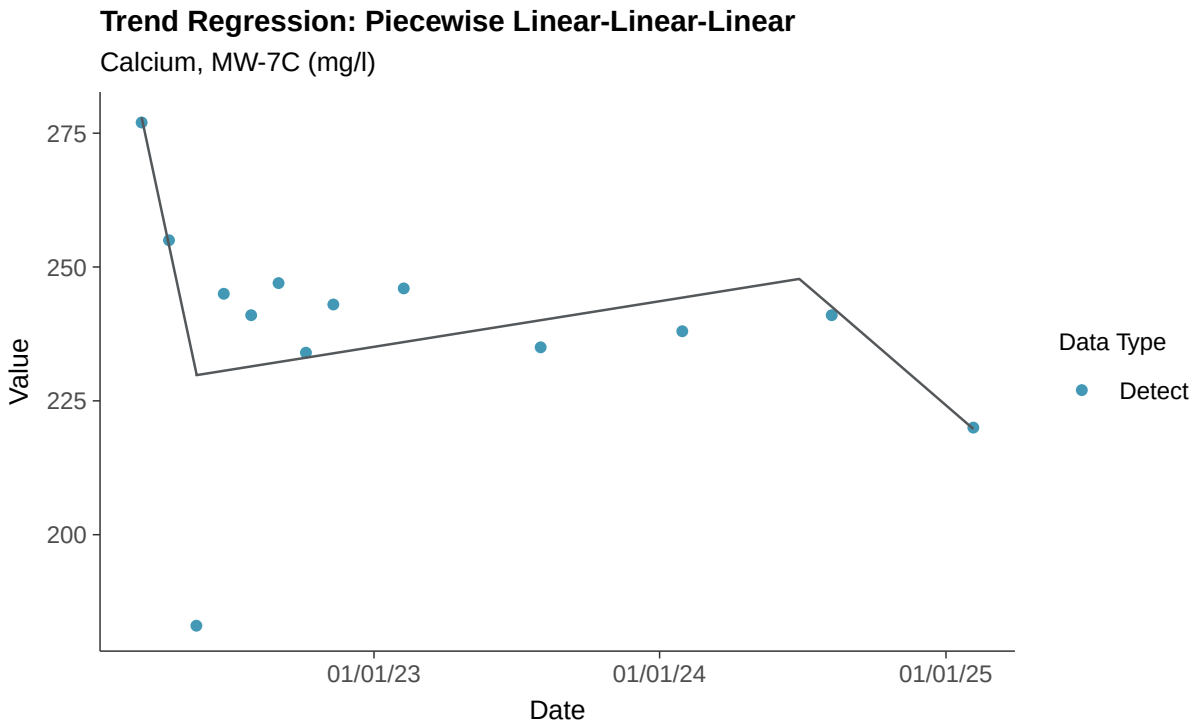
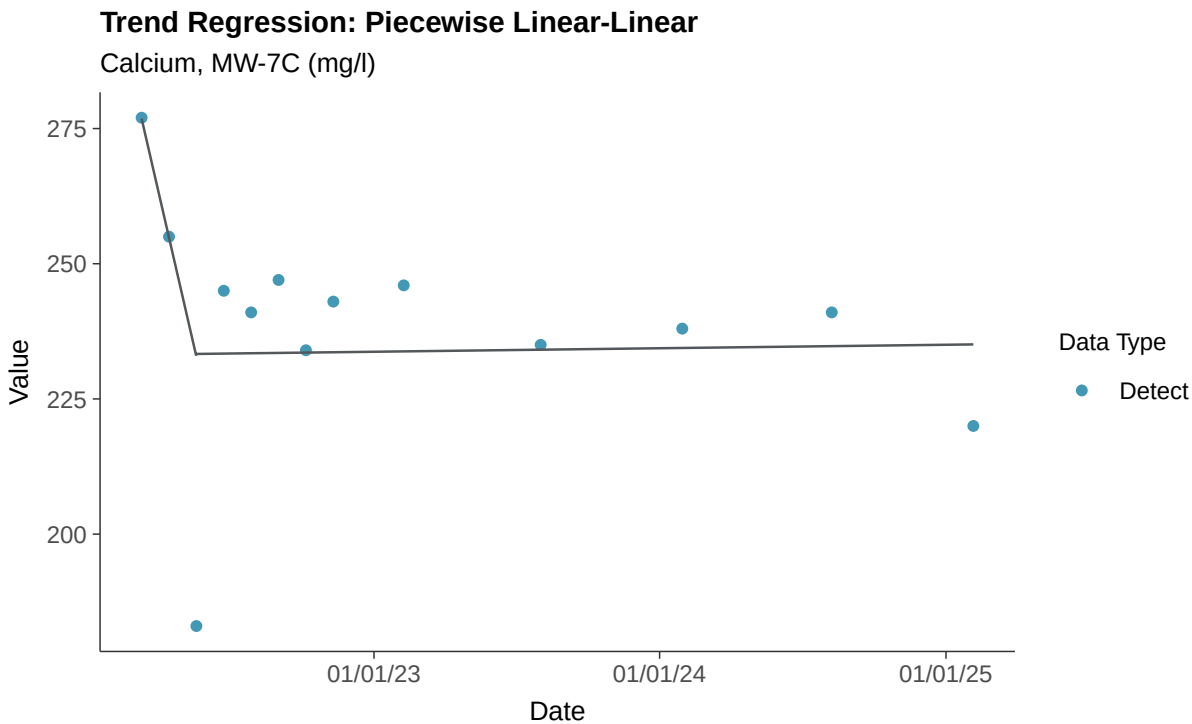
Appendix III: Calcium, MW-7C

ID: 16_2_107





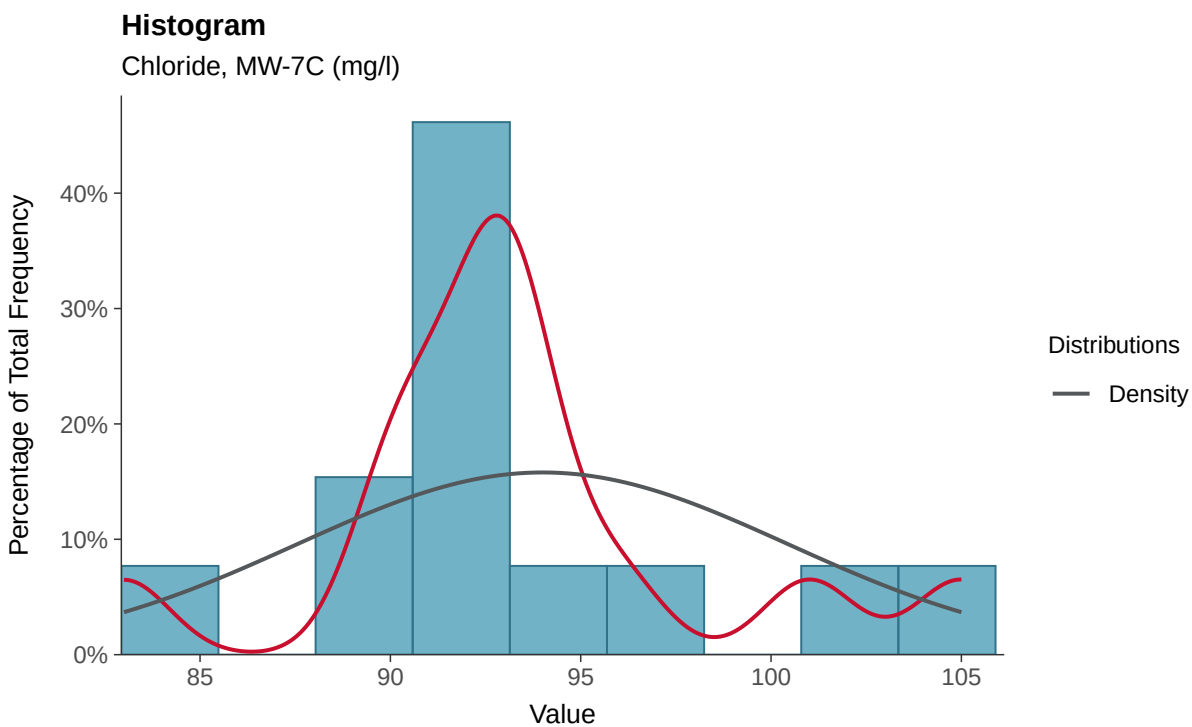
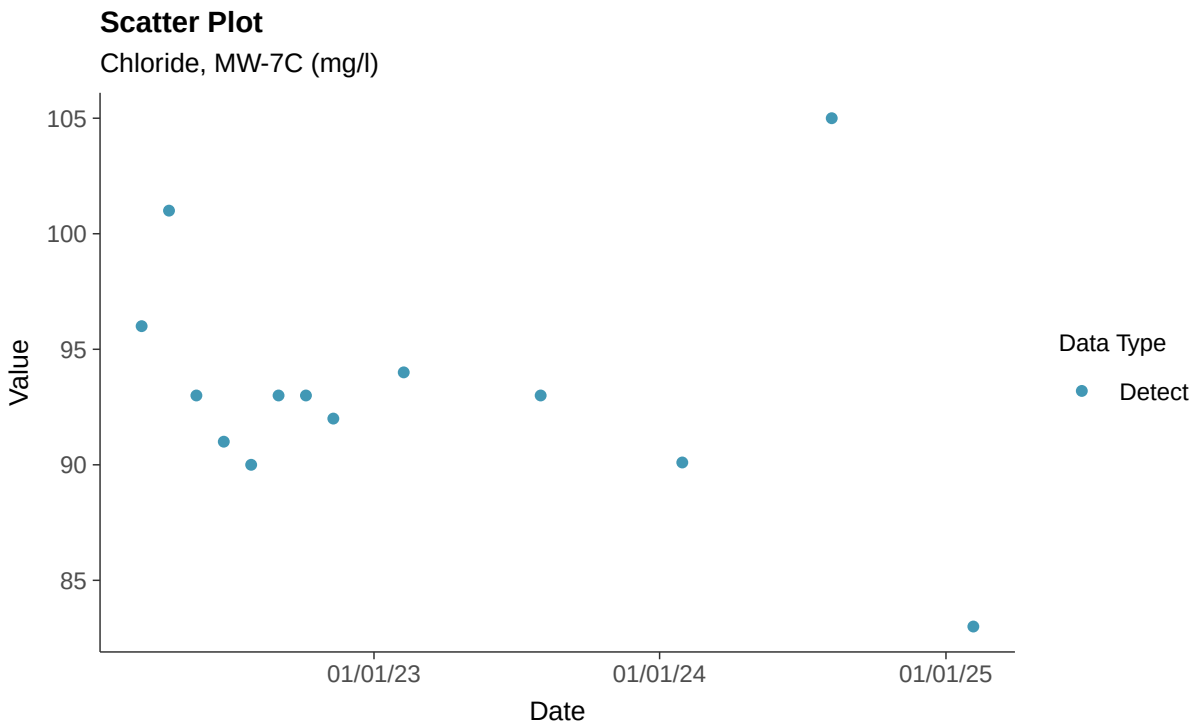


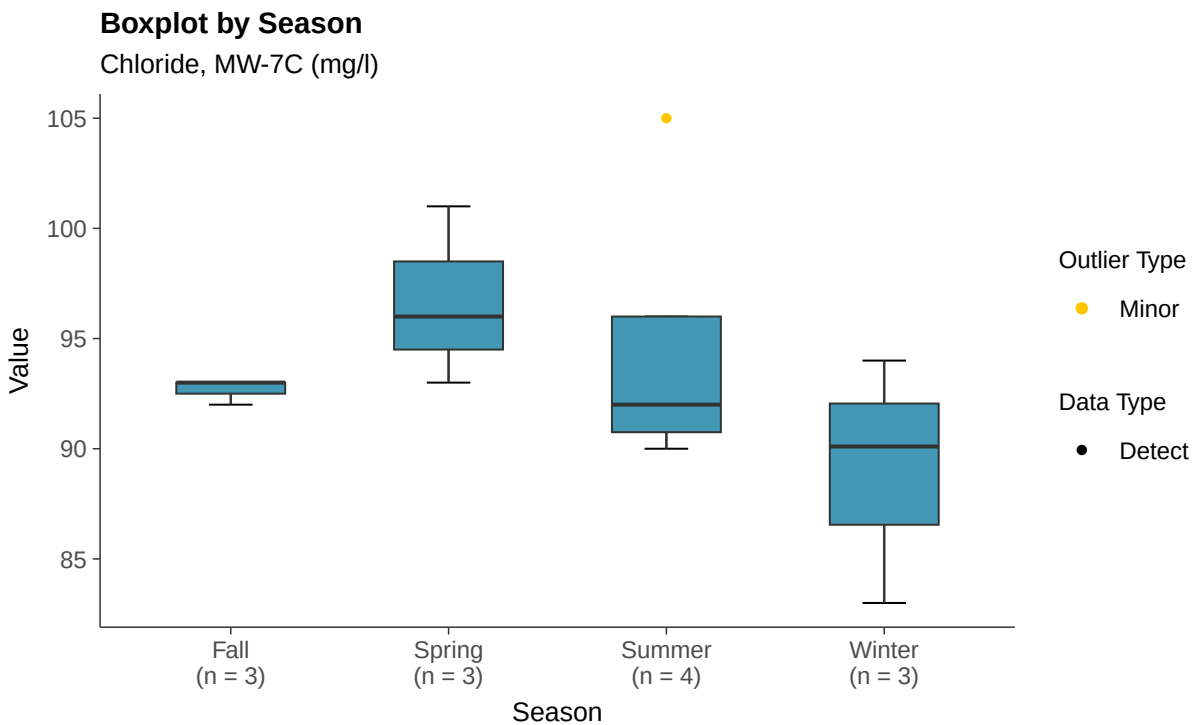
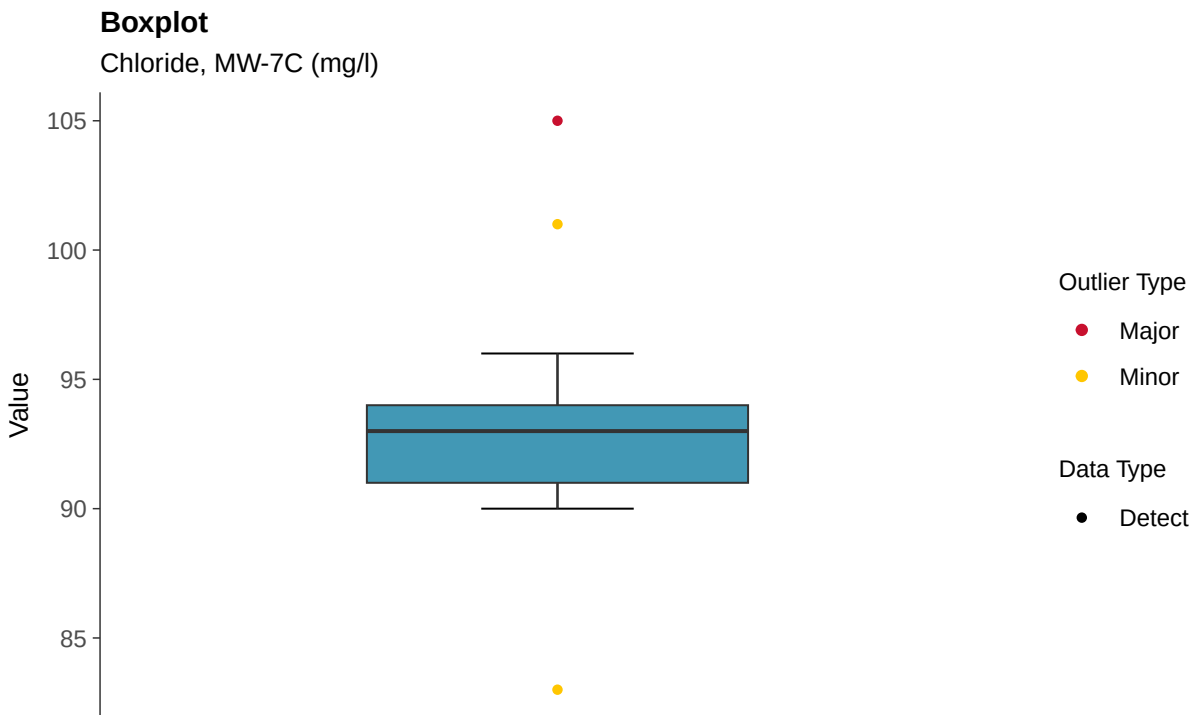


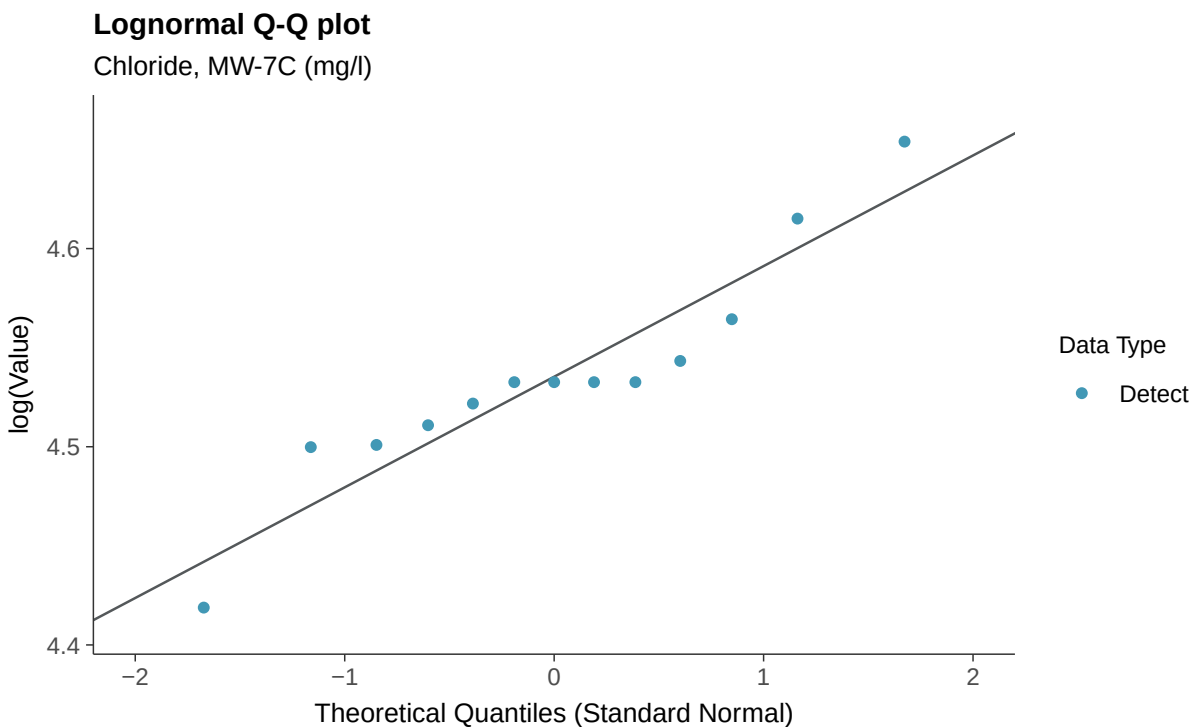
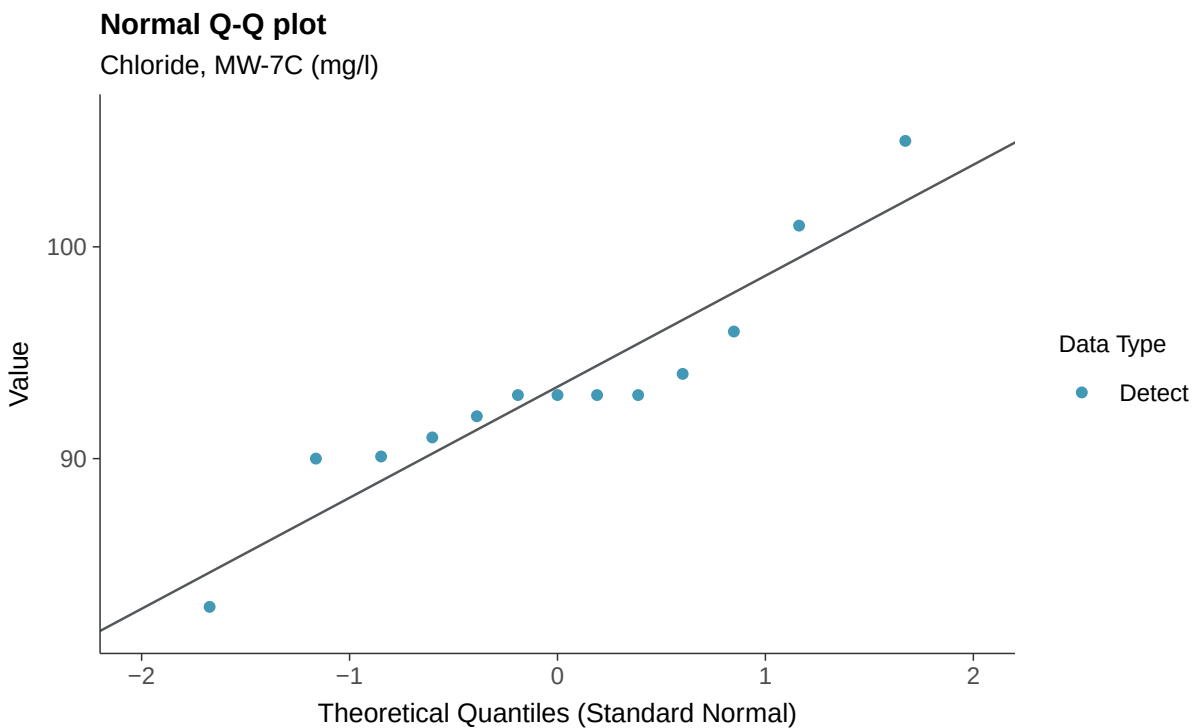


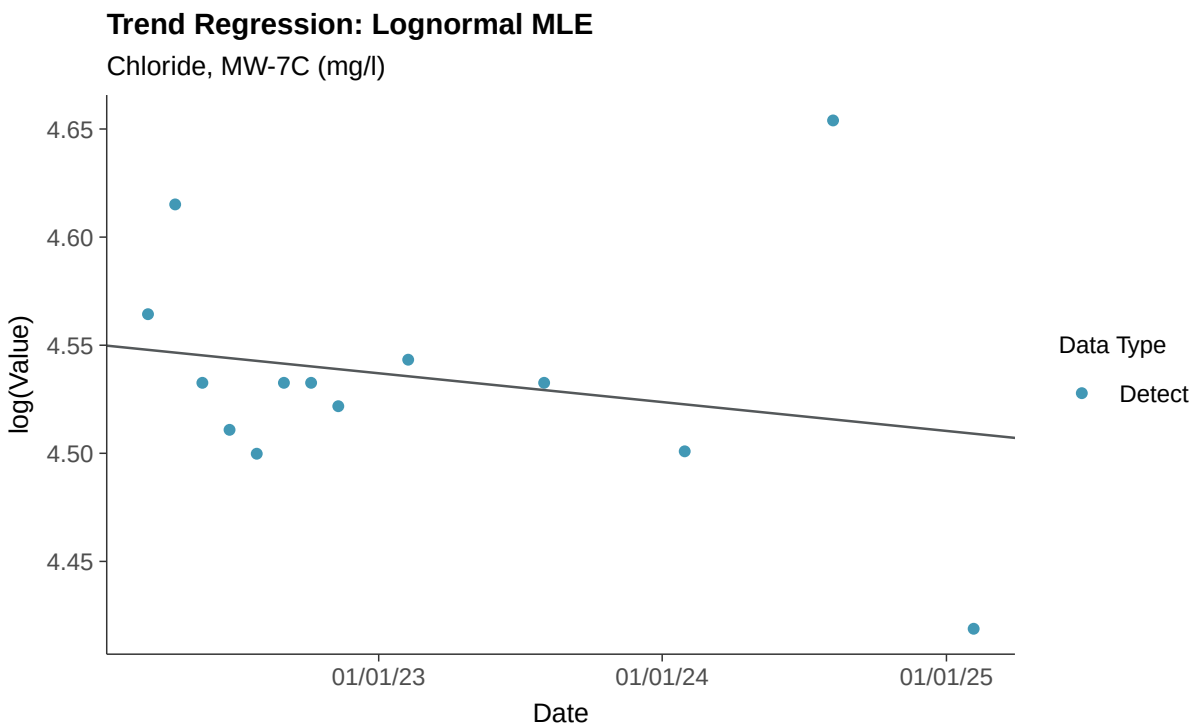
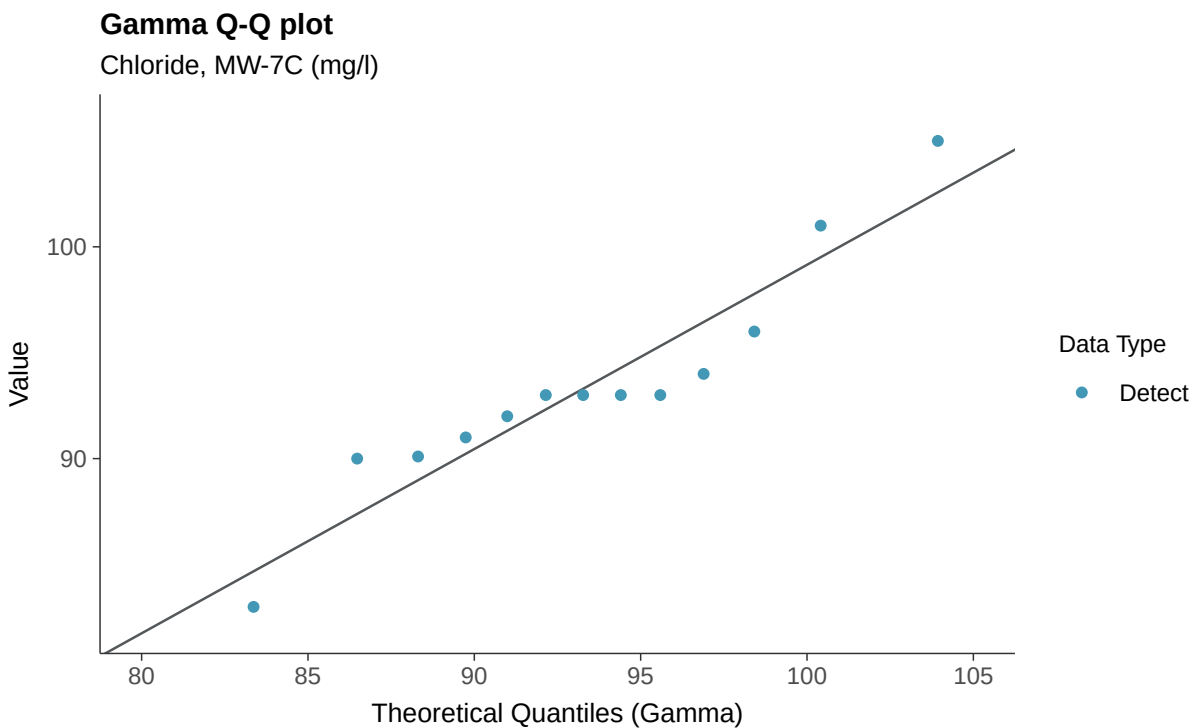
Appendix III: Chloride, MW-7C

ID: 16_2_108





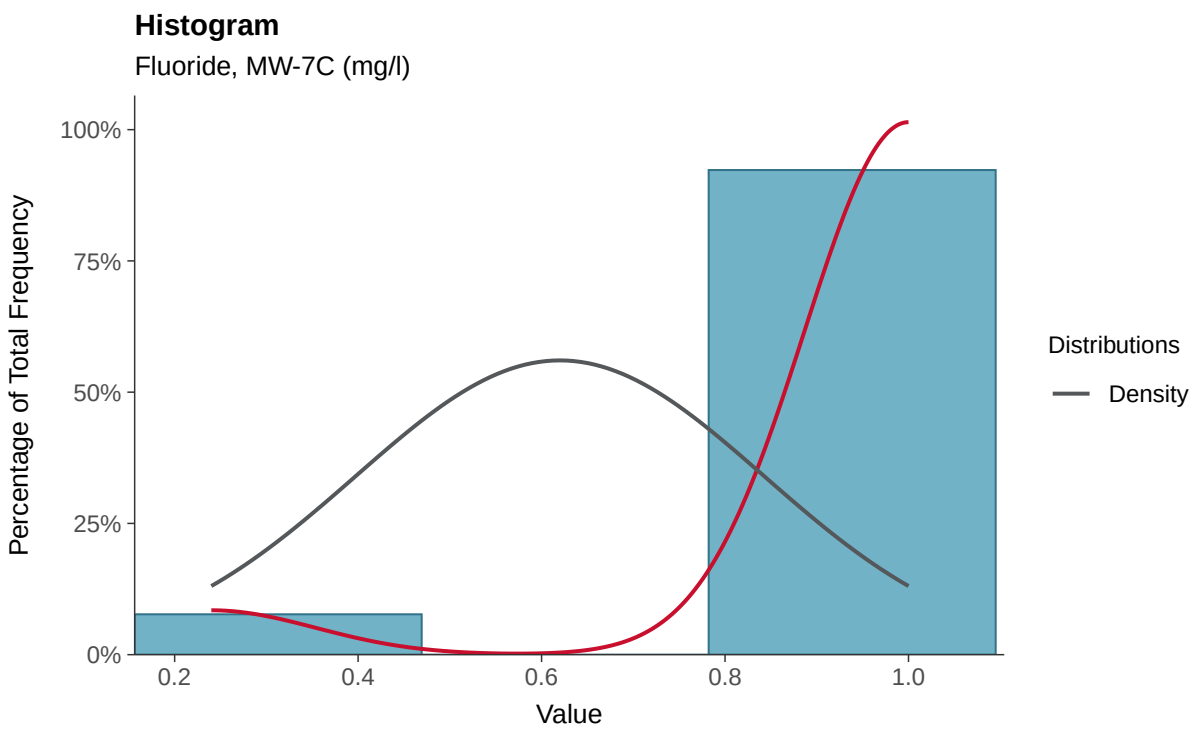
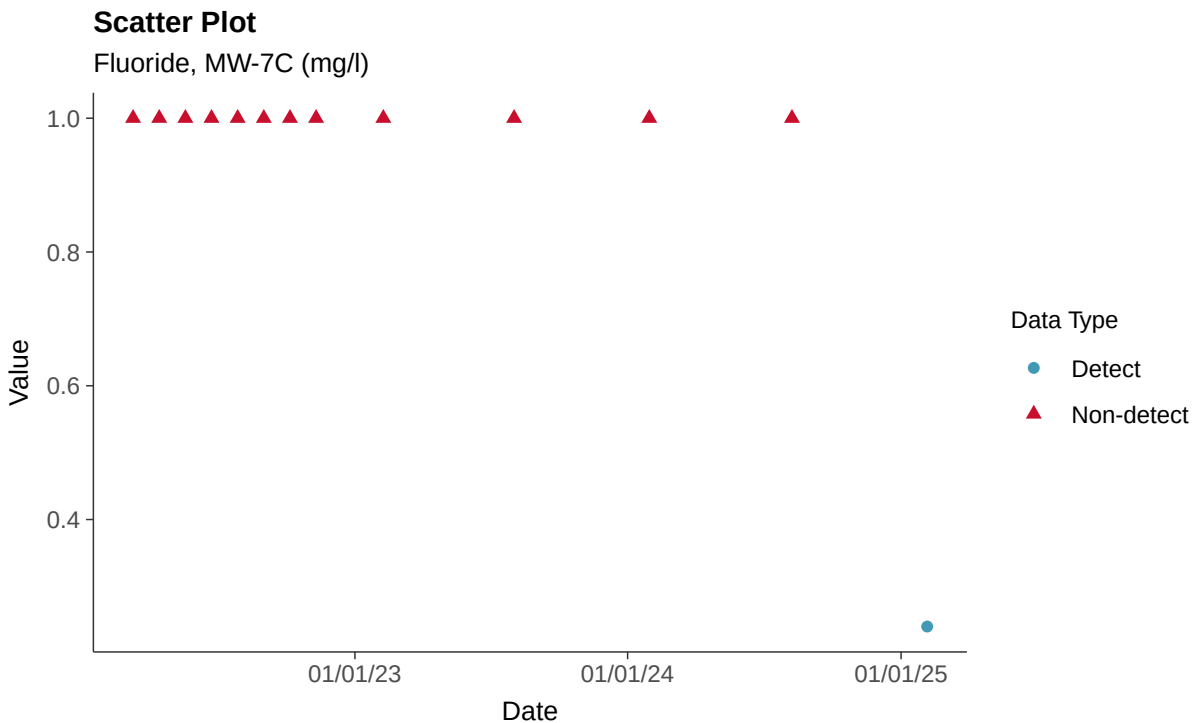


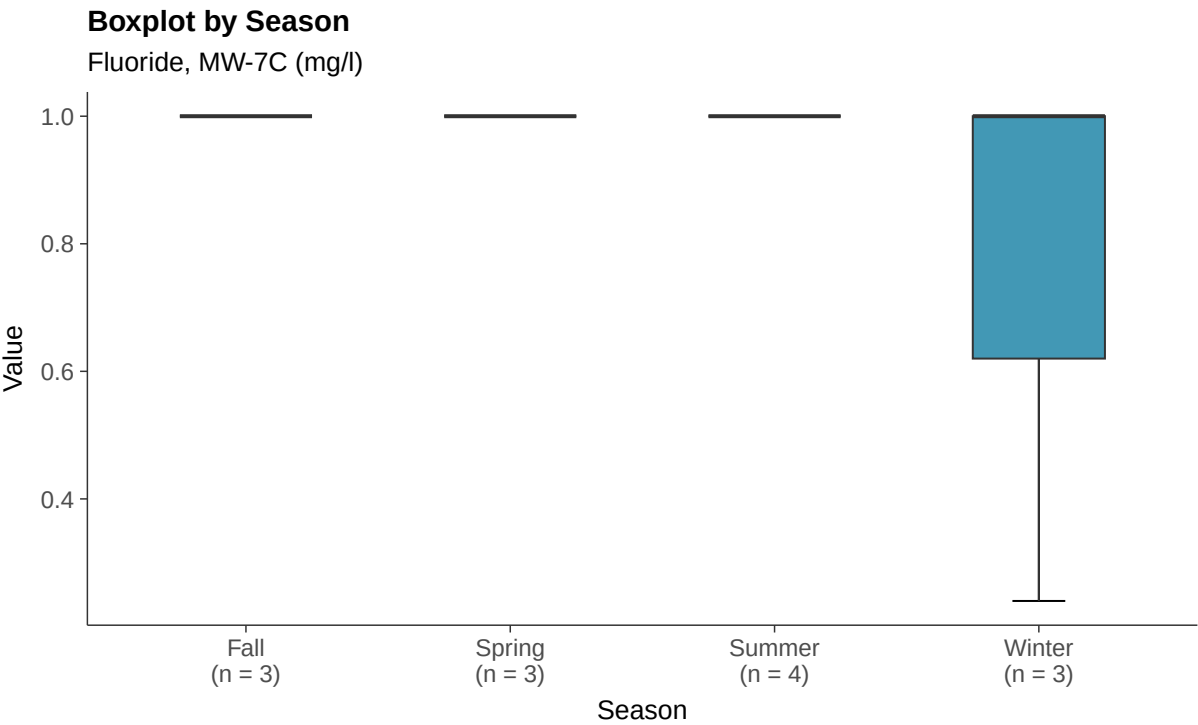
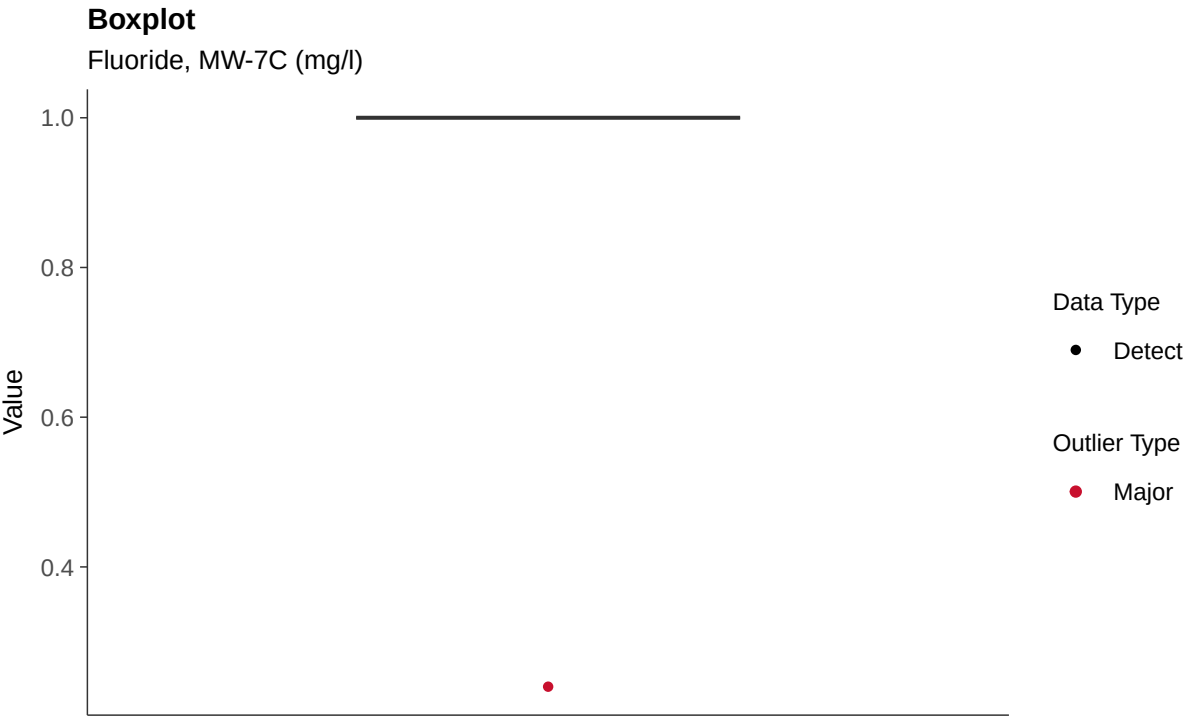




Appendix III: Fluoride, MW-7C

ID: 16_2_112

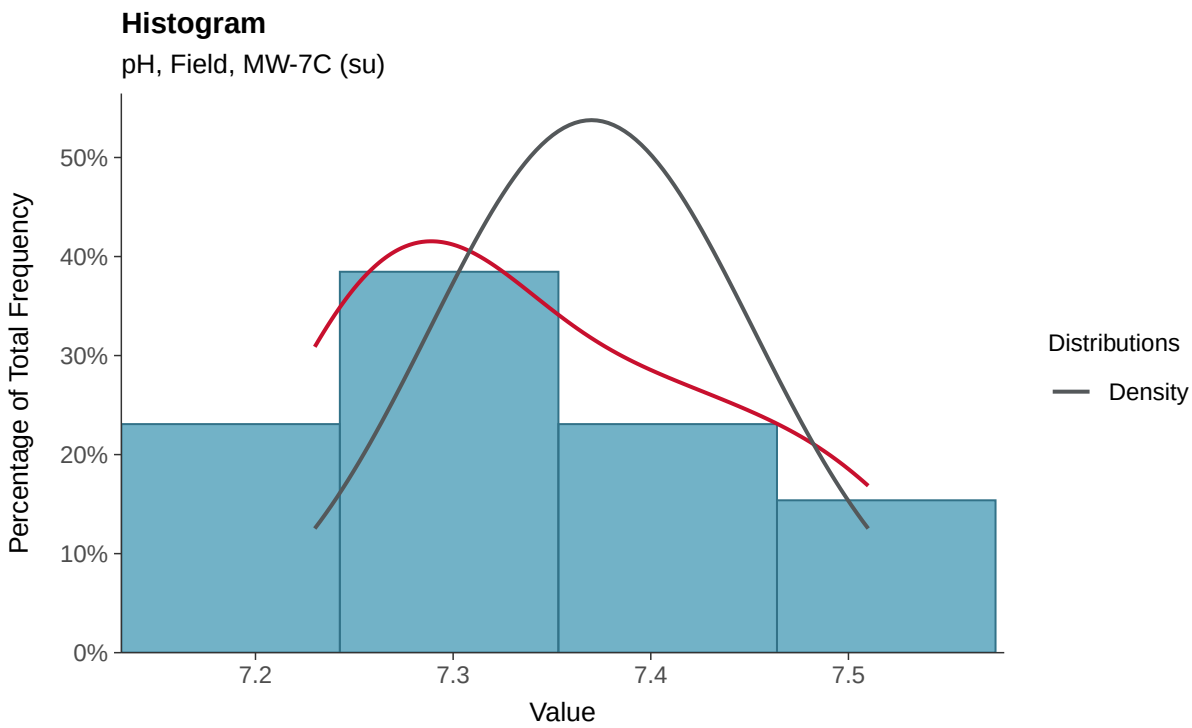
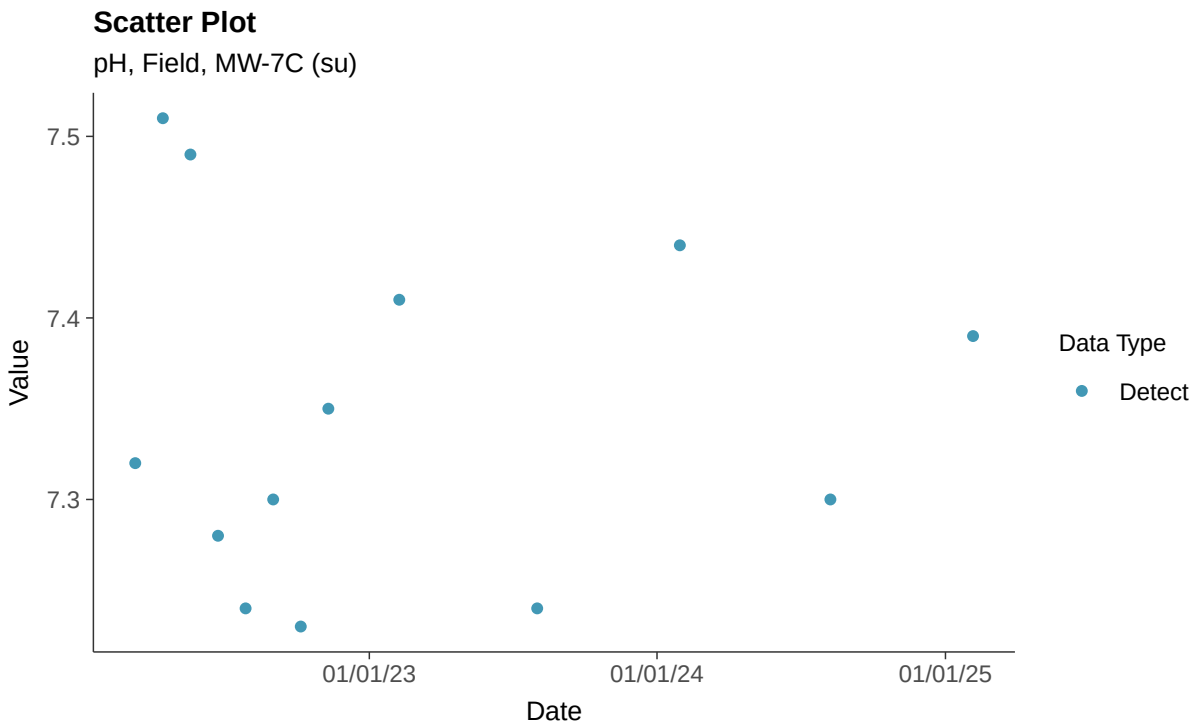


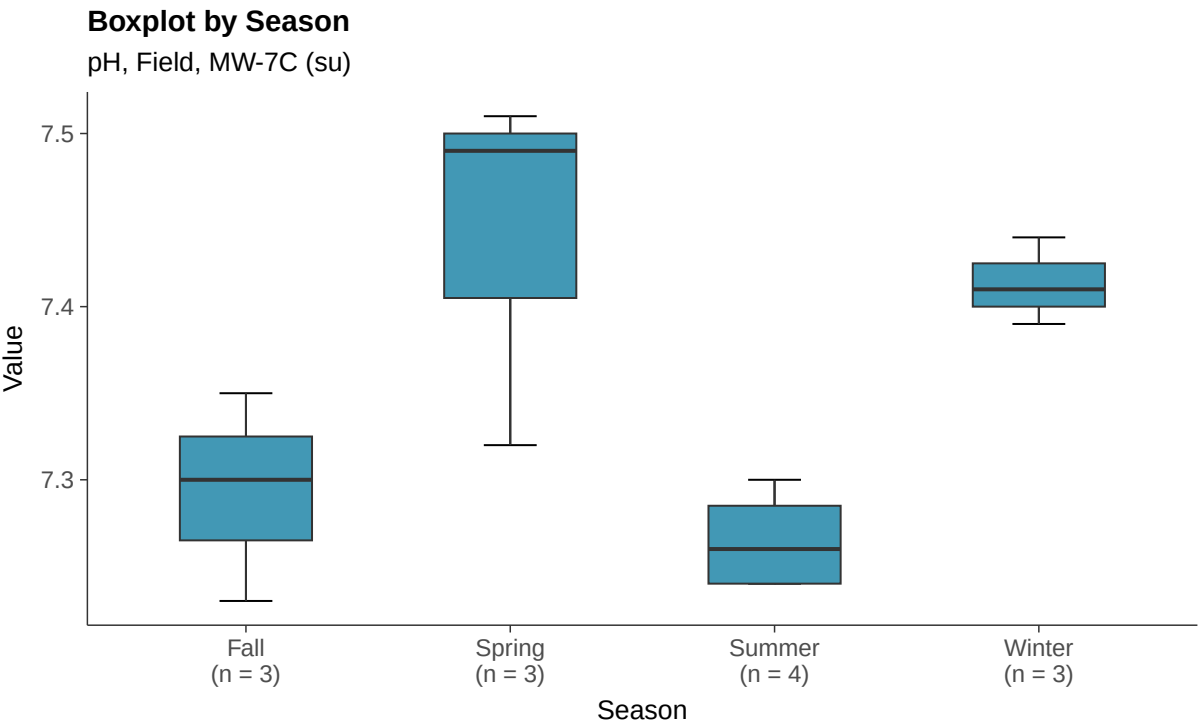
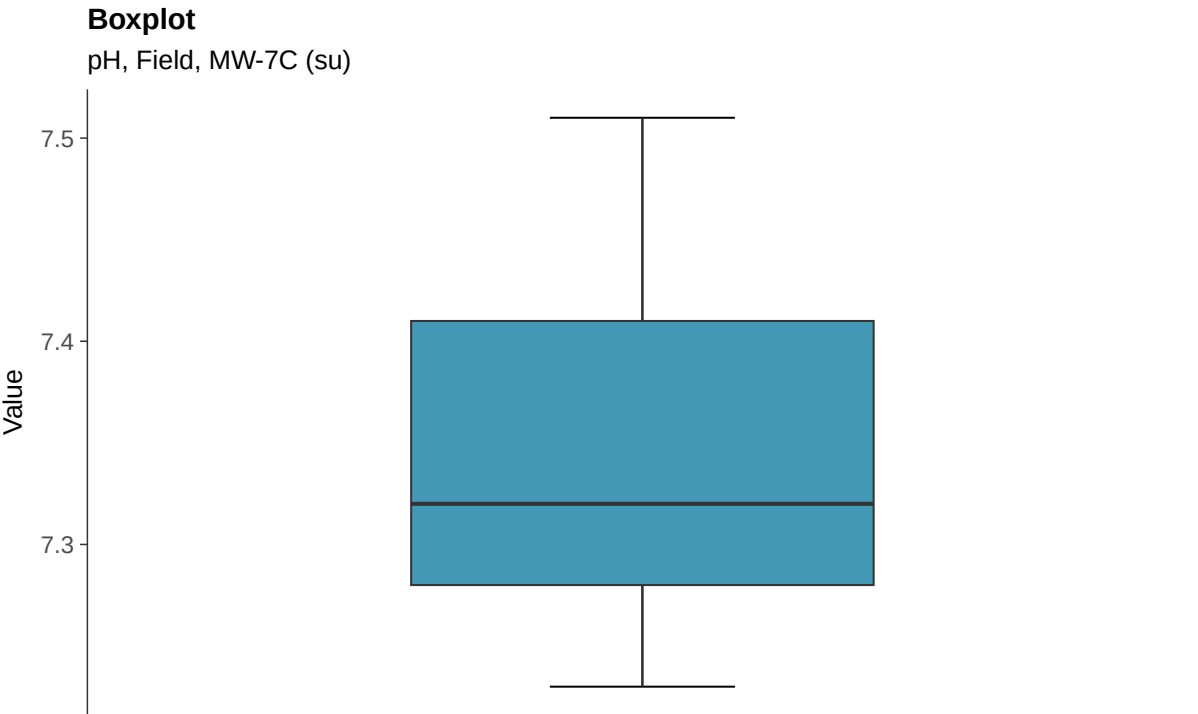


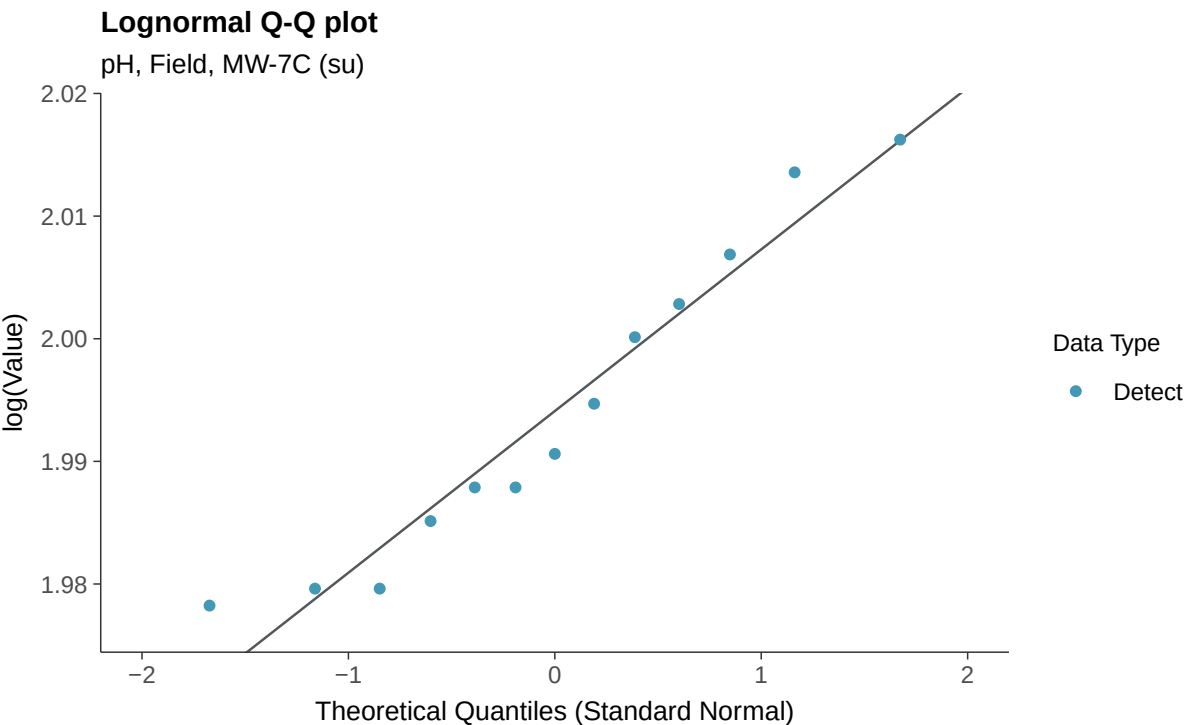
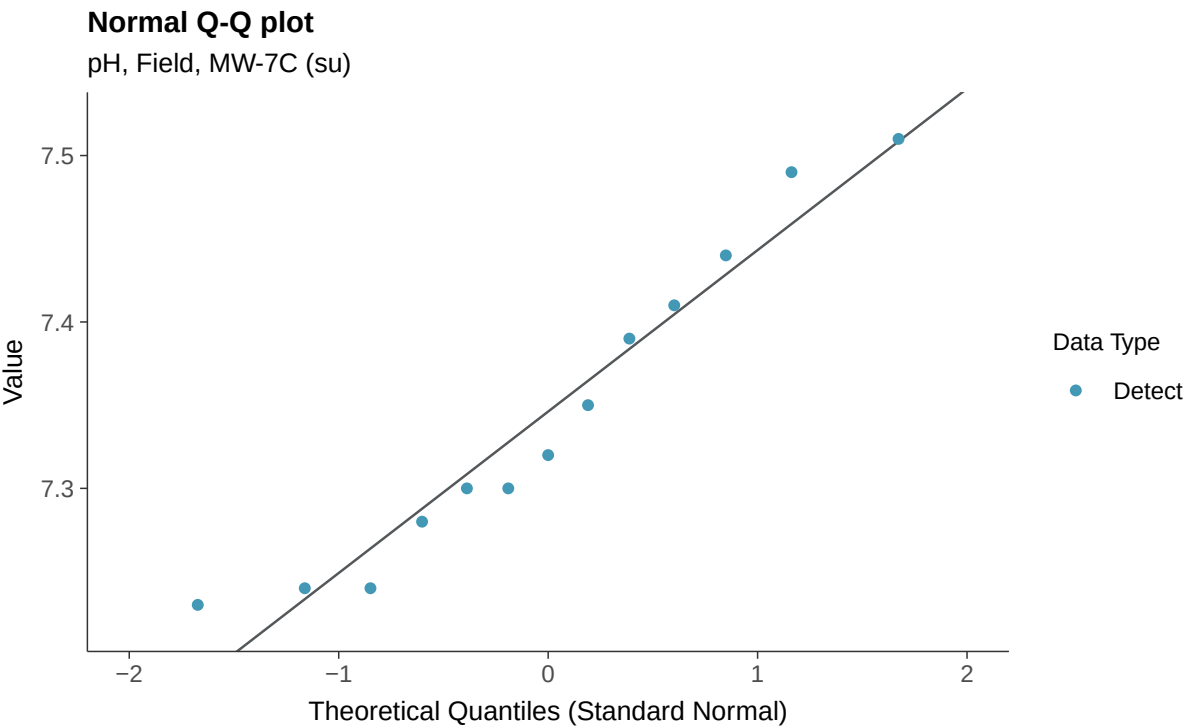


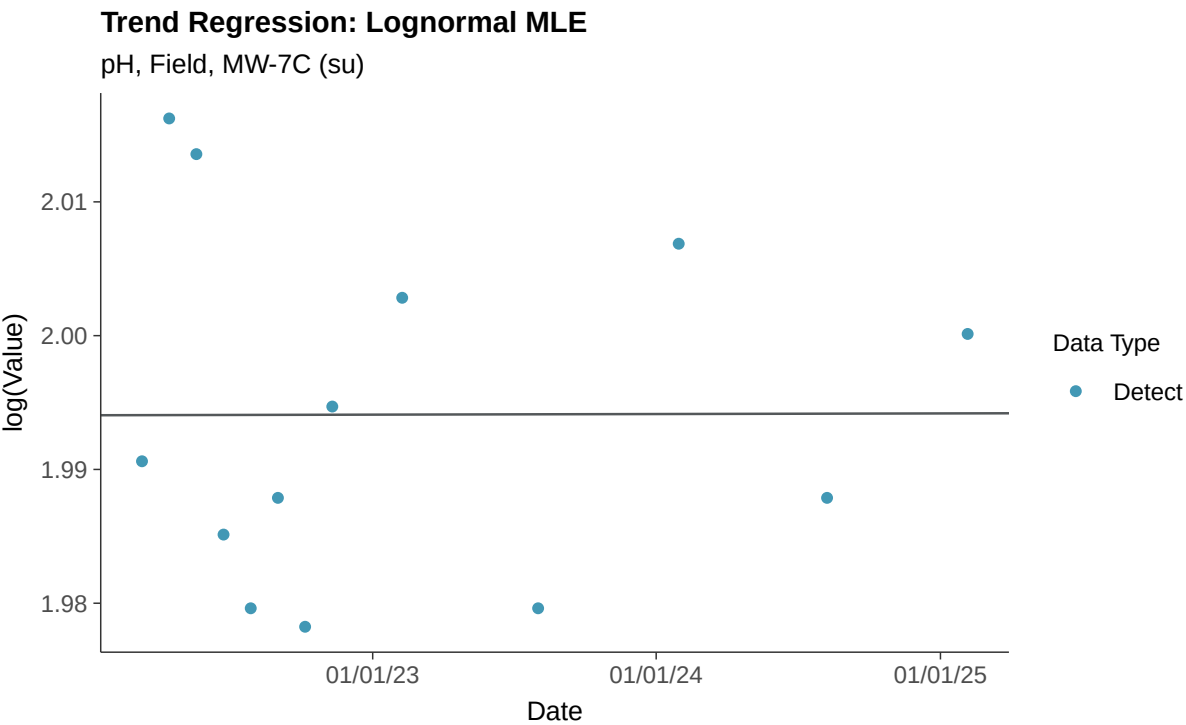
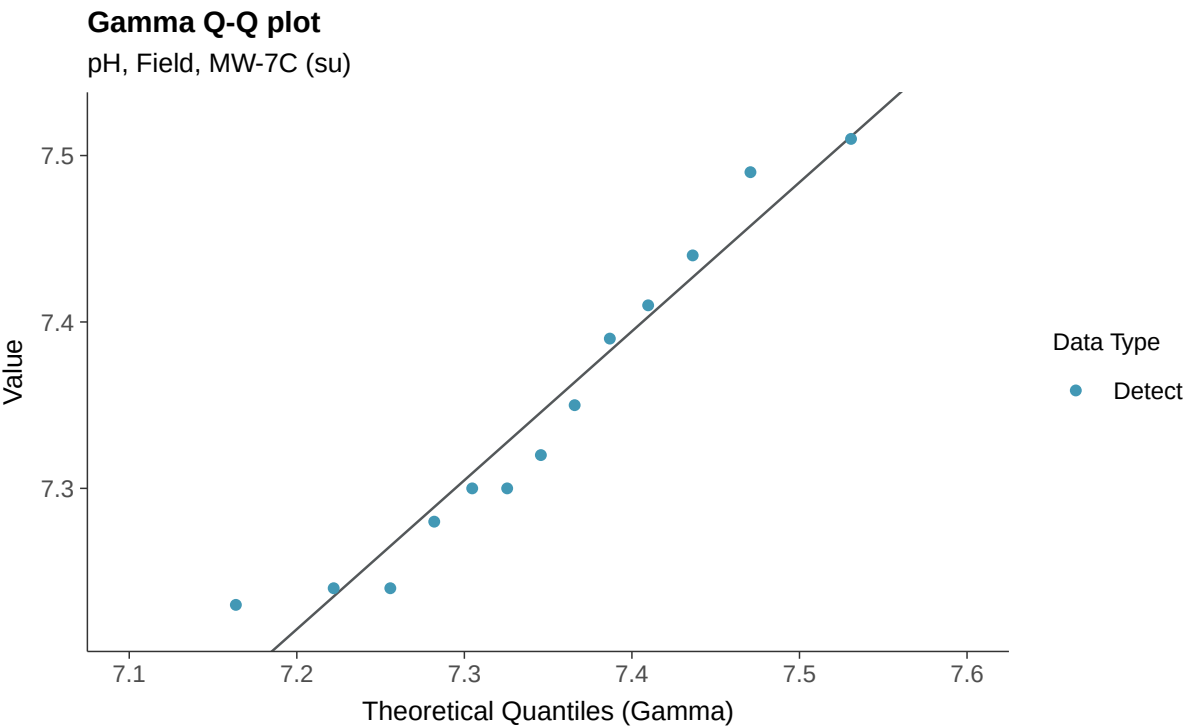
Appendix III: pH, Field, MW-7C

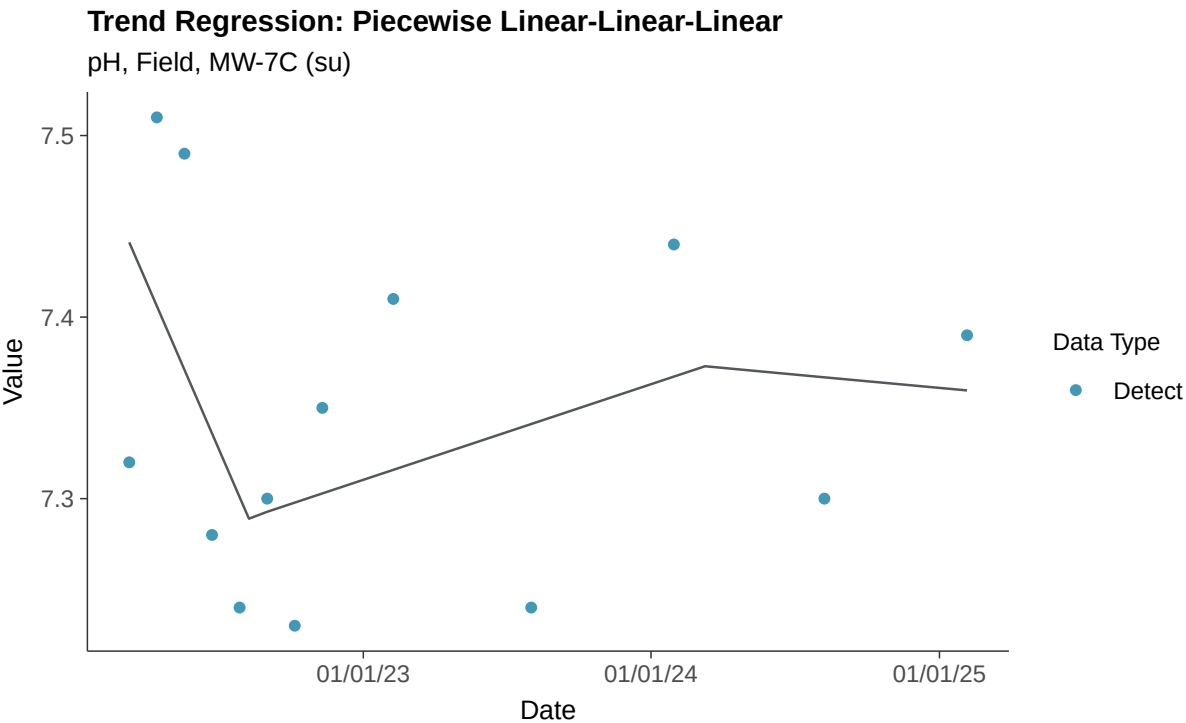
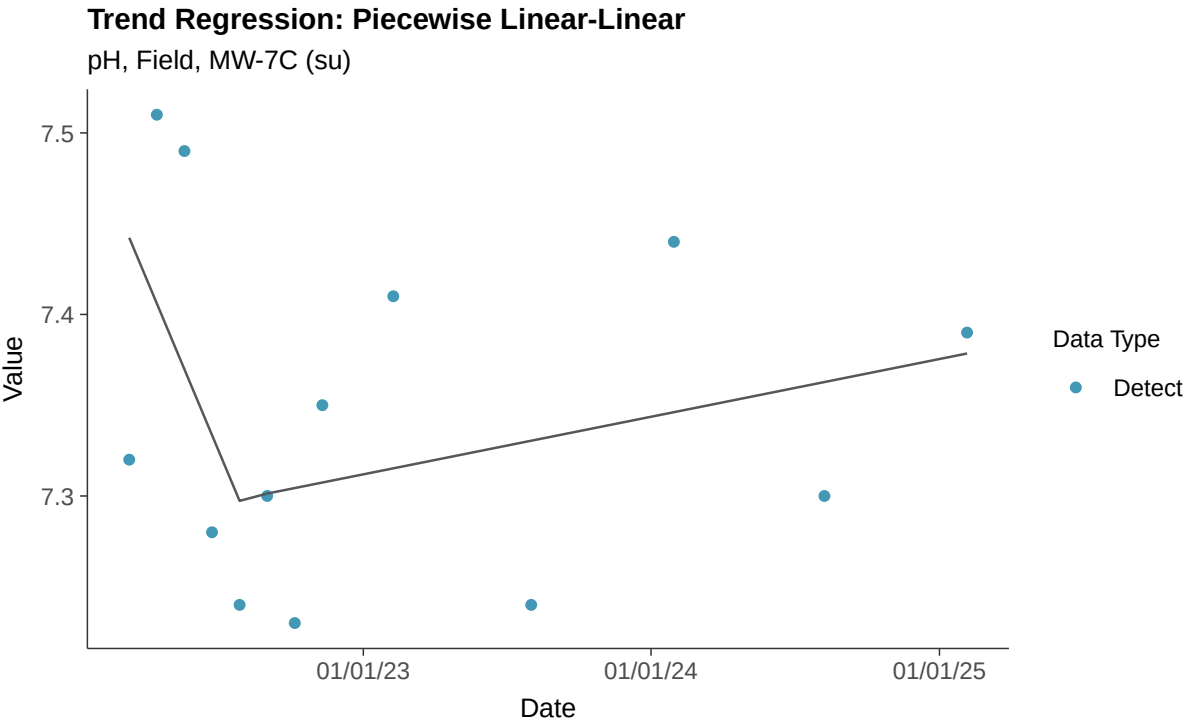
ID: 16_2_120







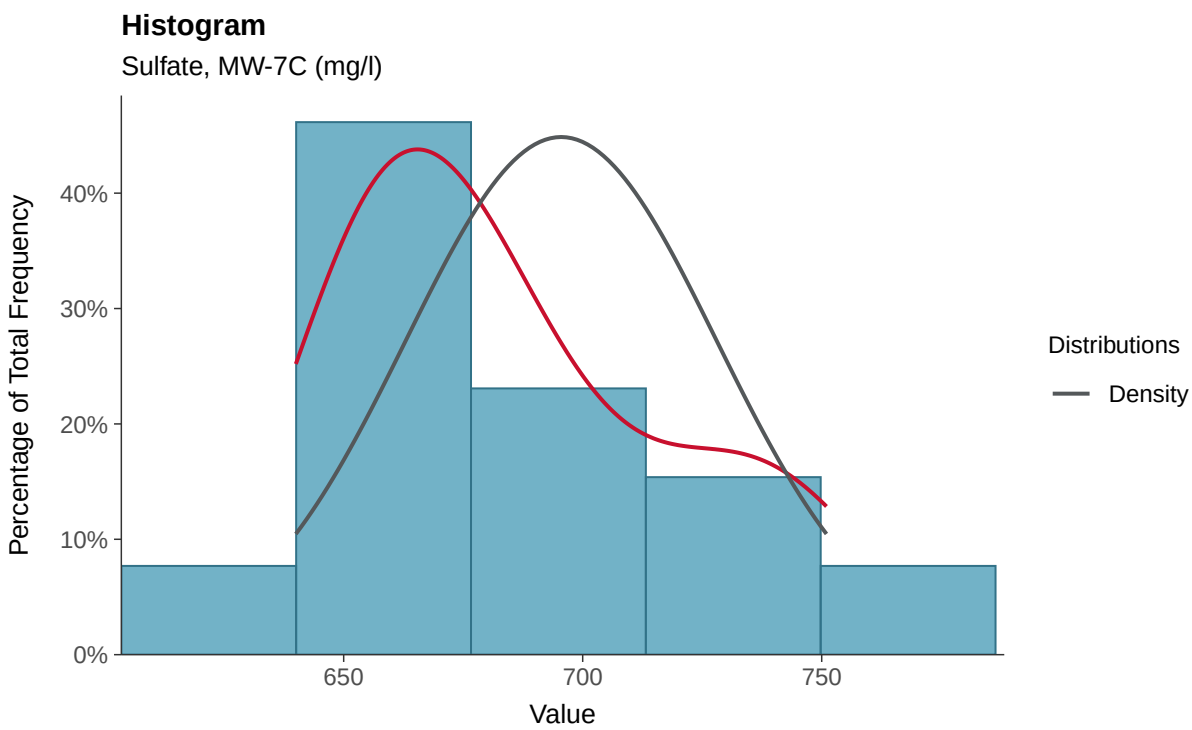
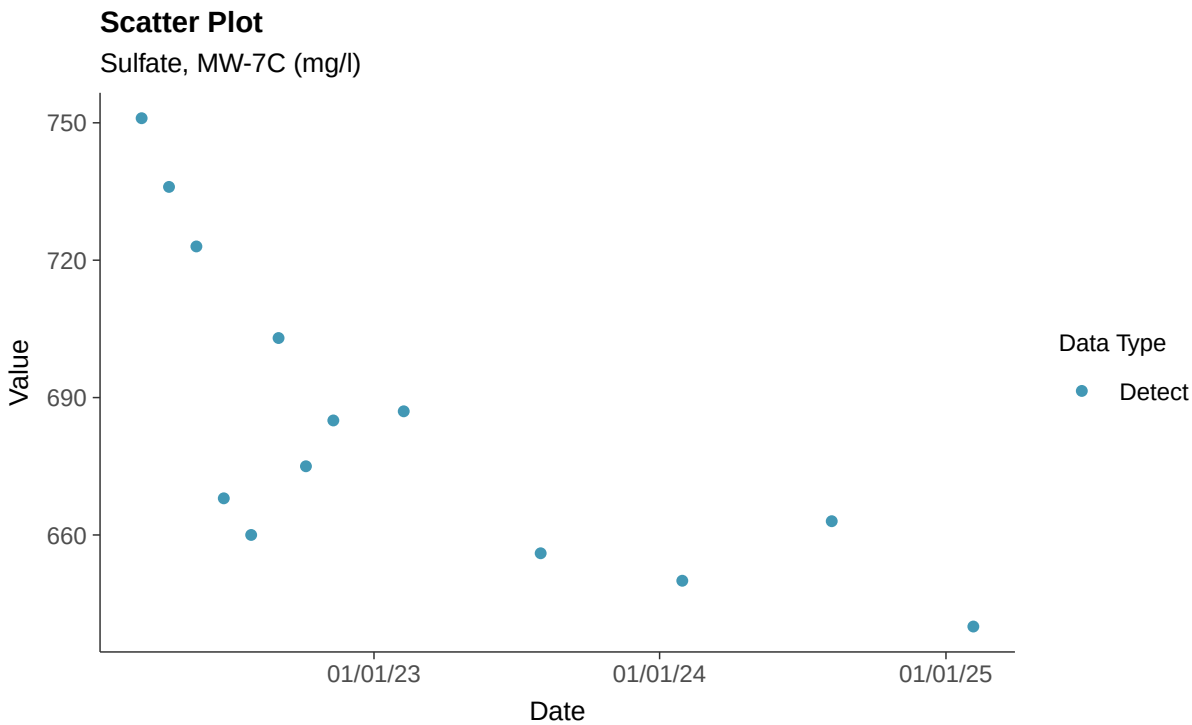


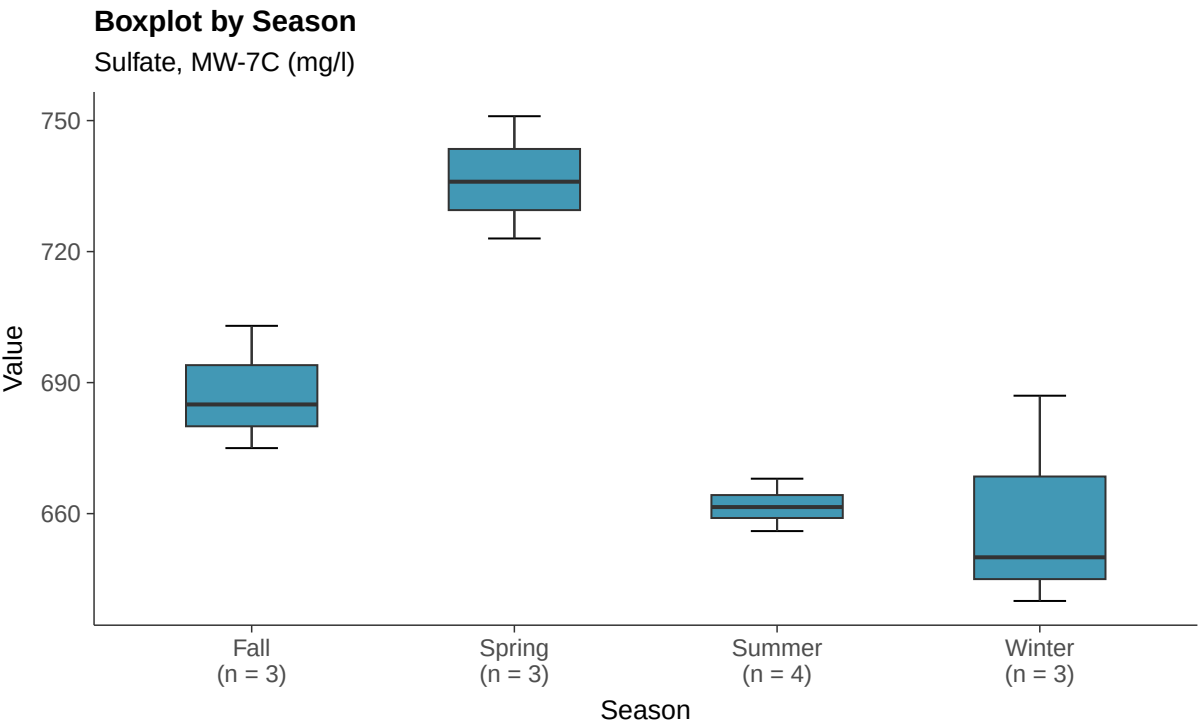
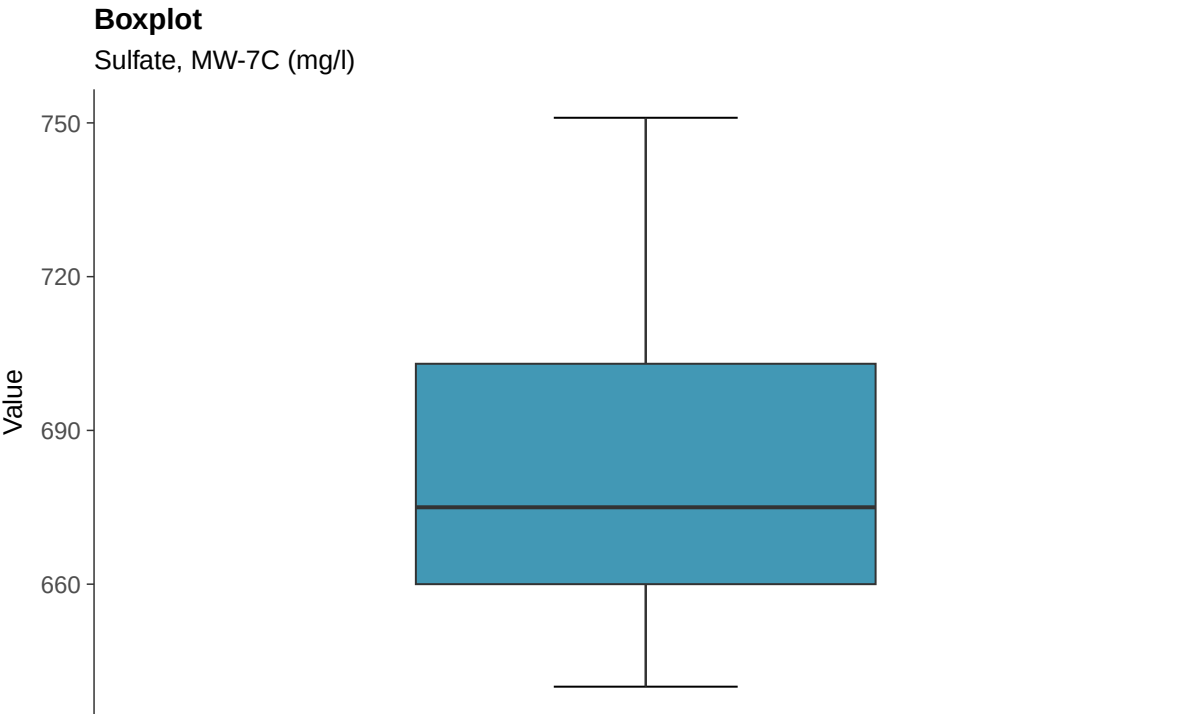


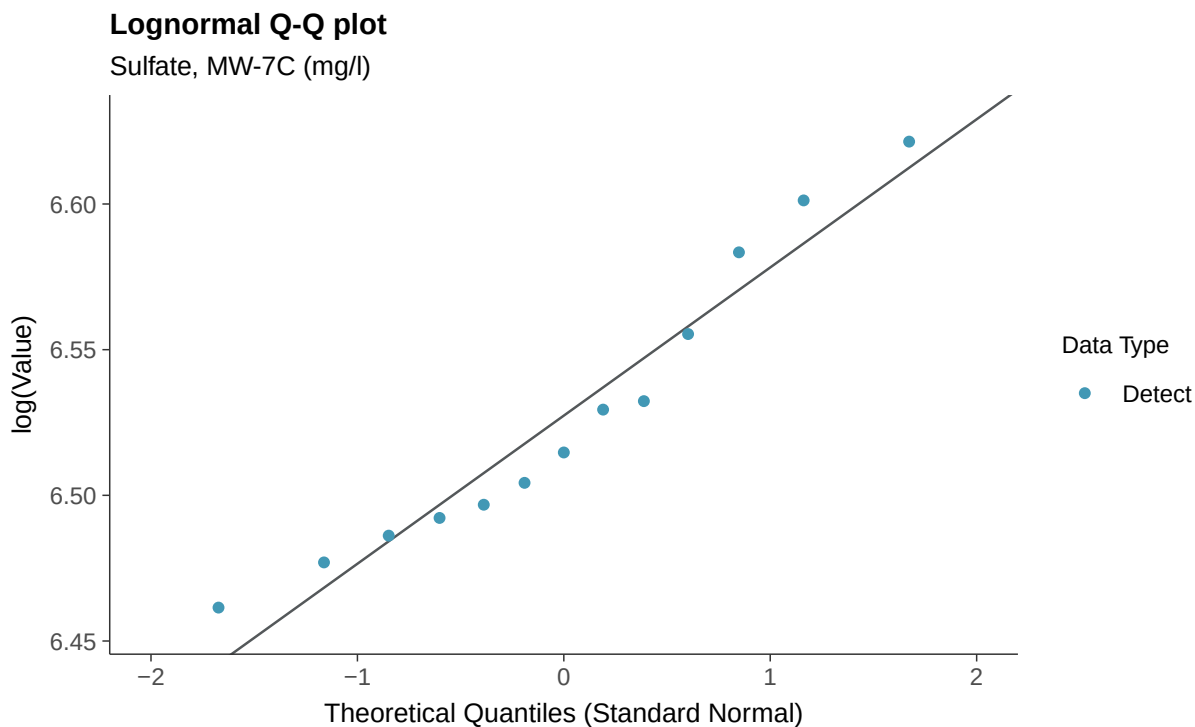
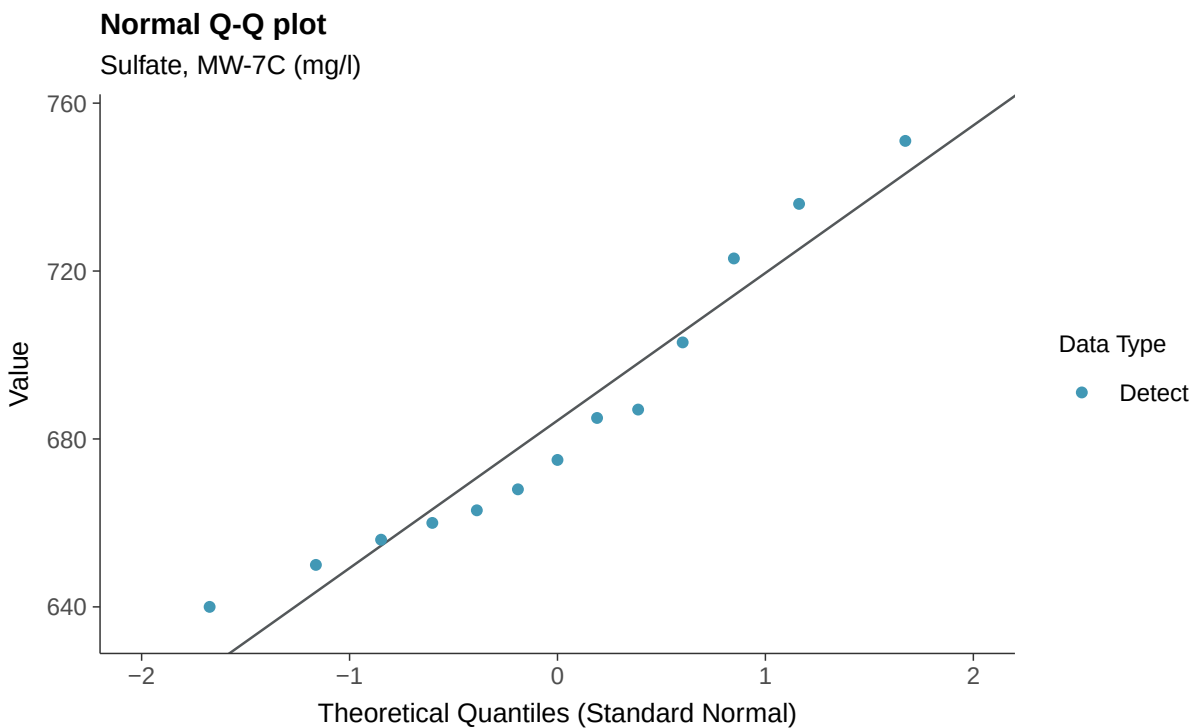


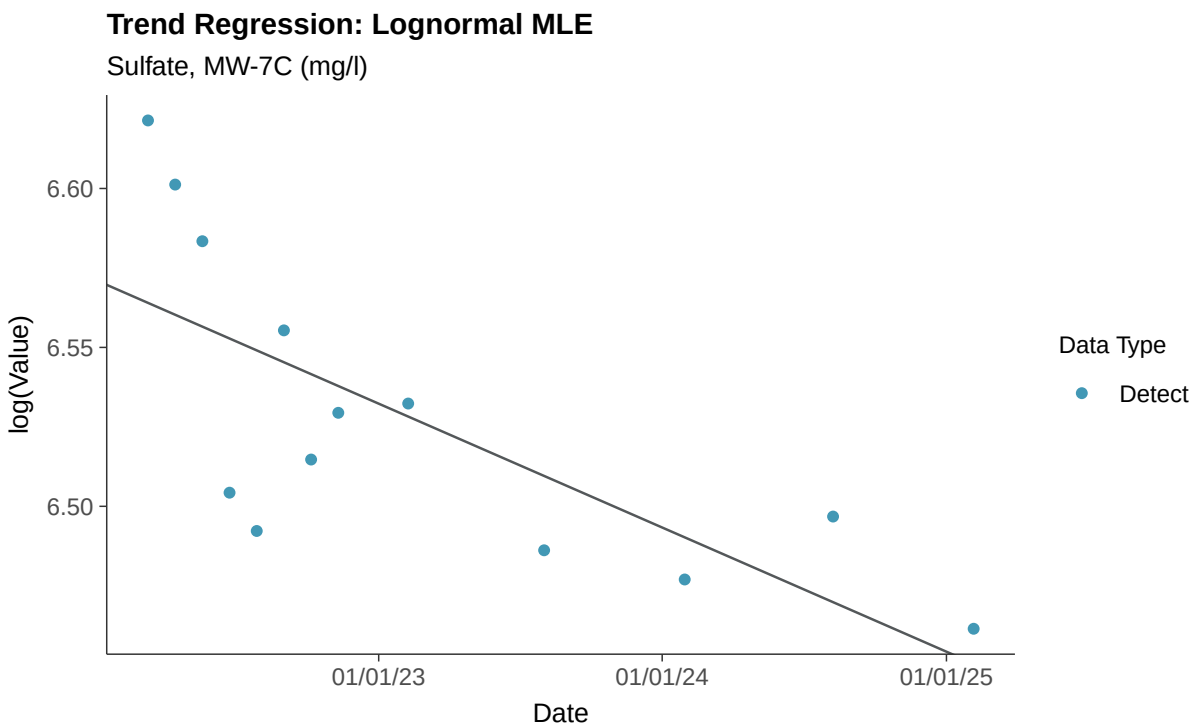
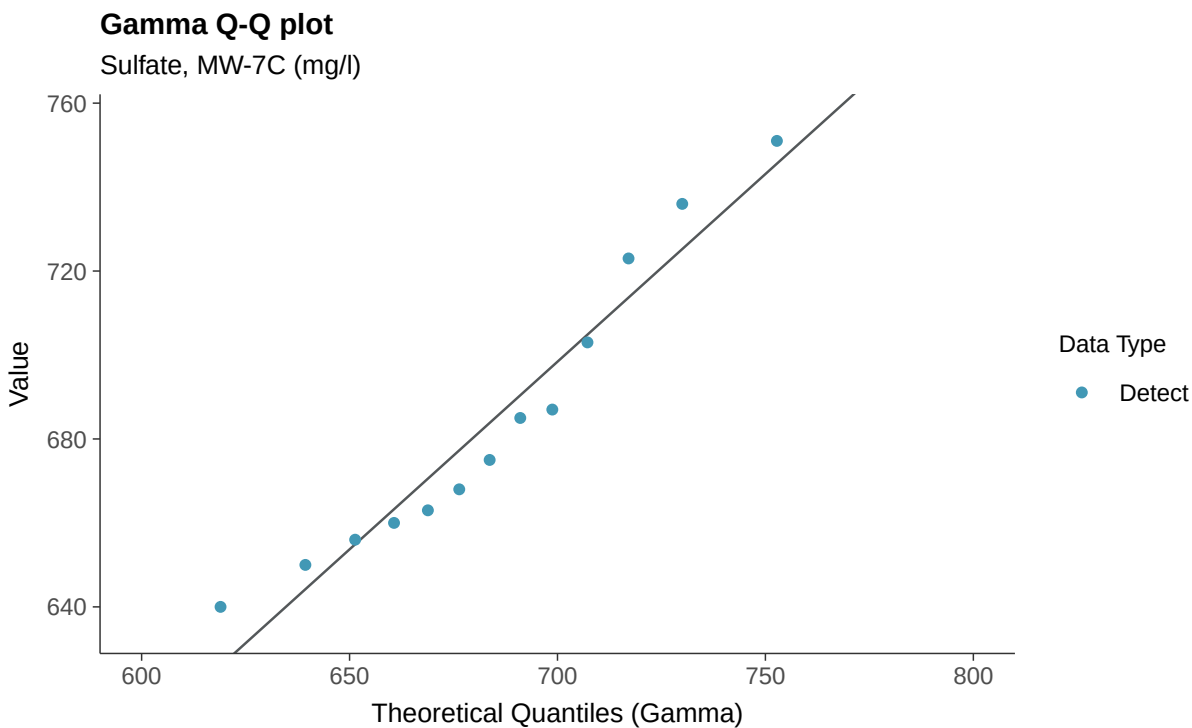
Appendix III: Sulfate, MW-7C

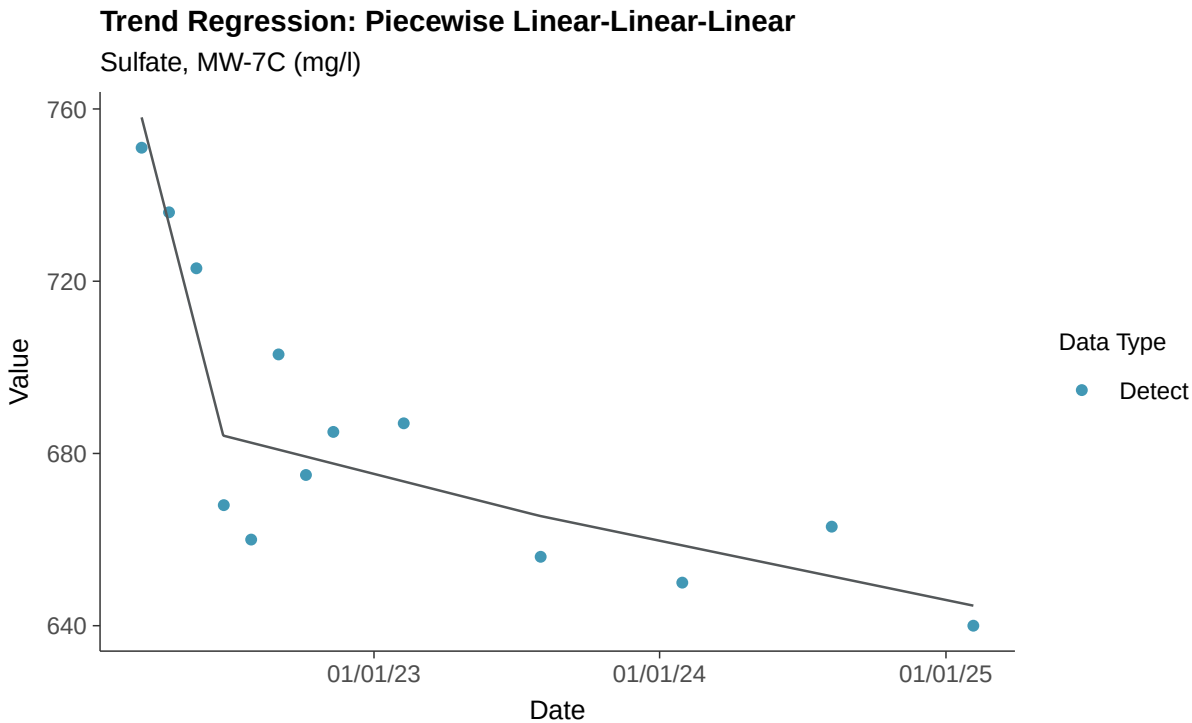
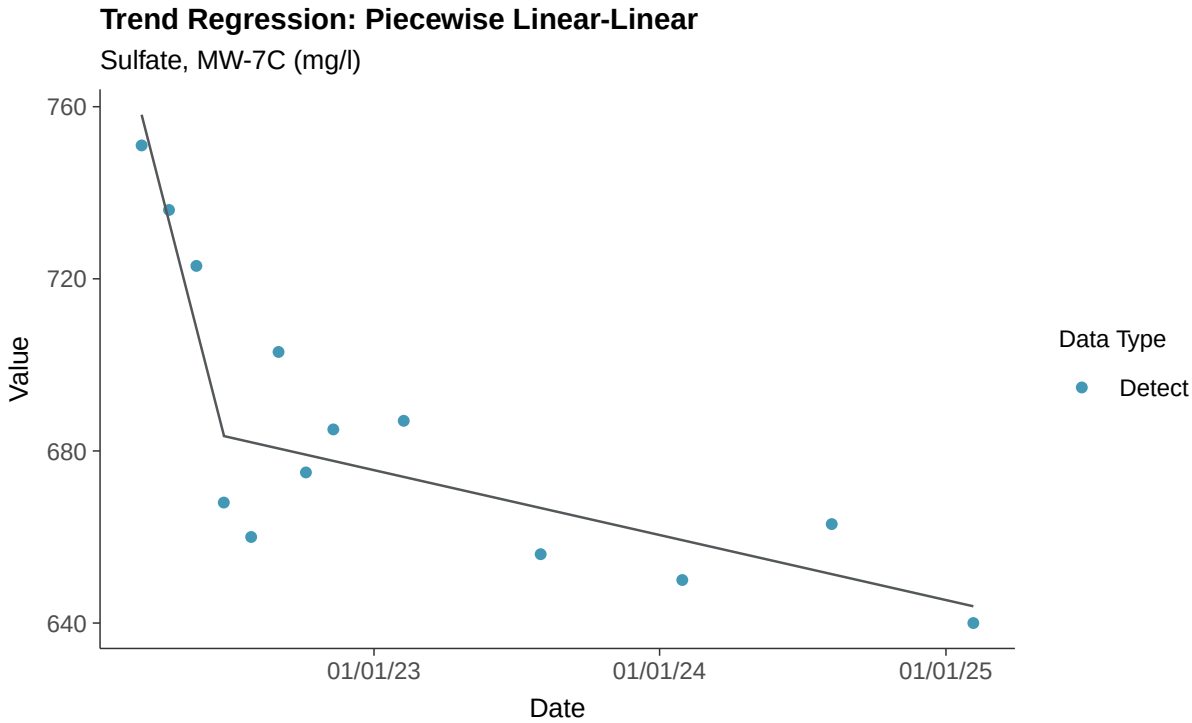
ID: 16_2_124







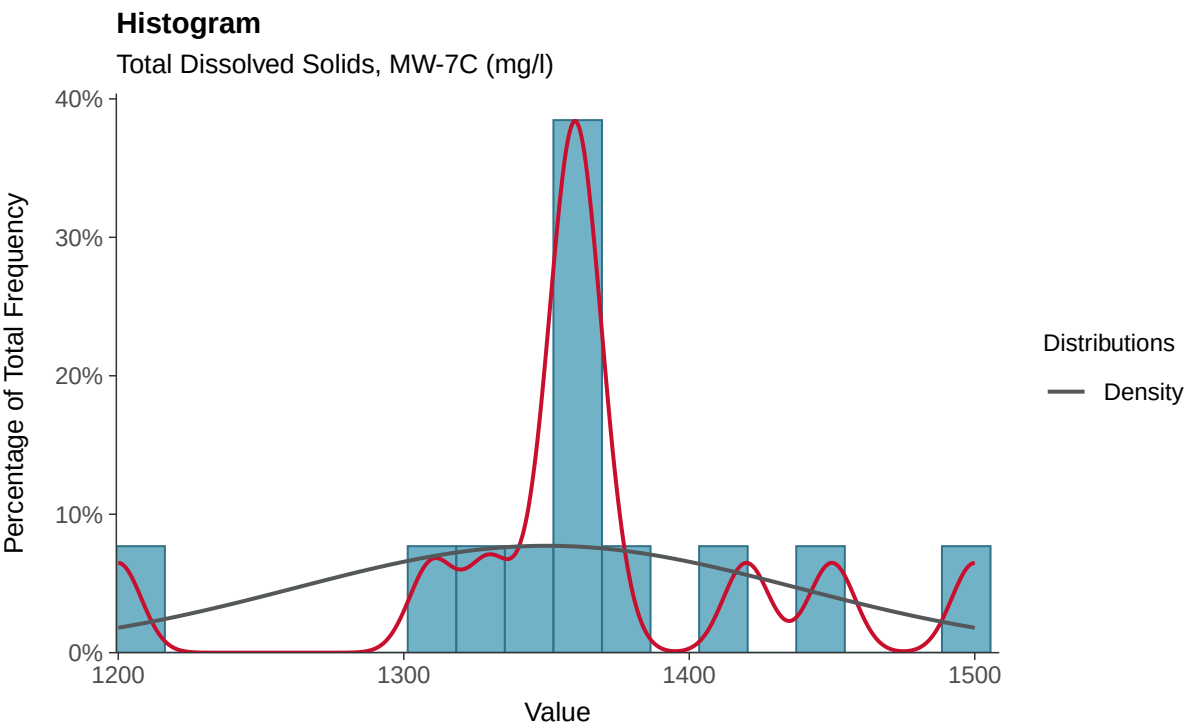
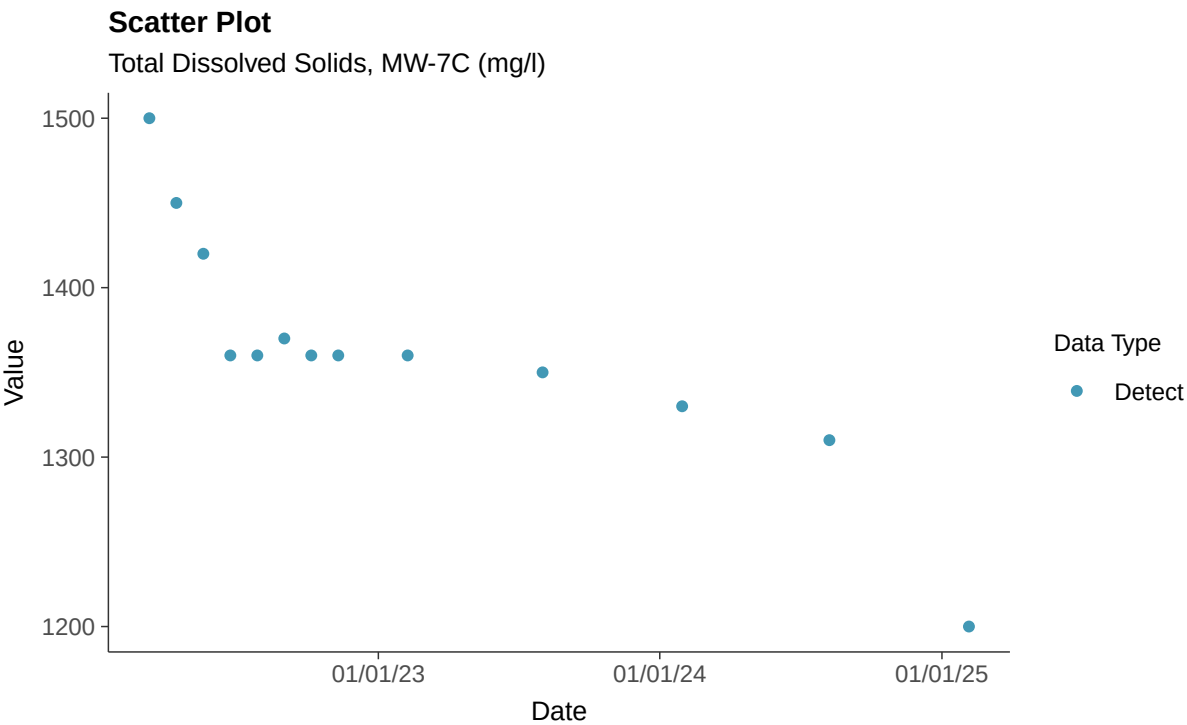


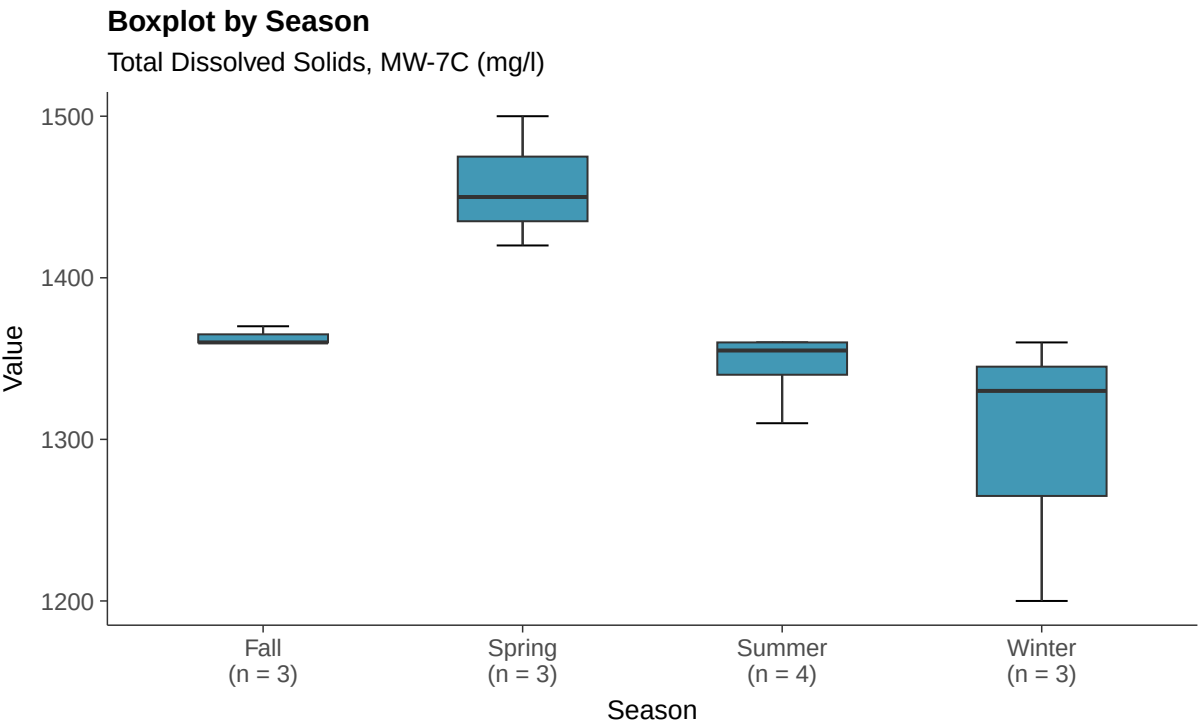
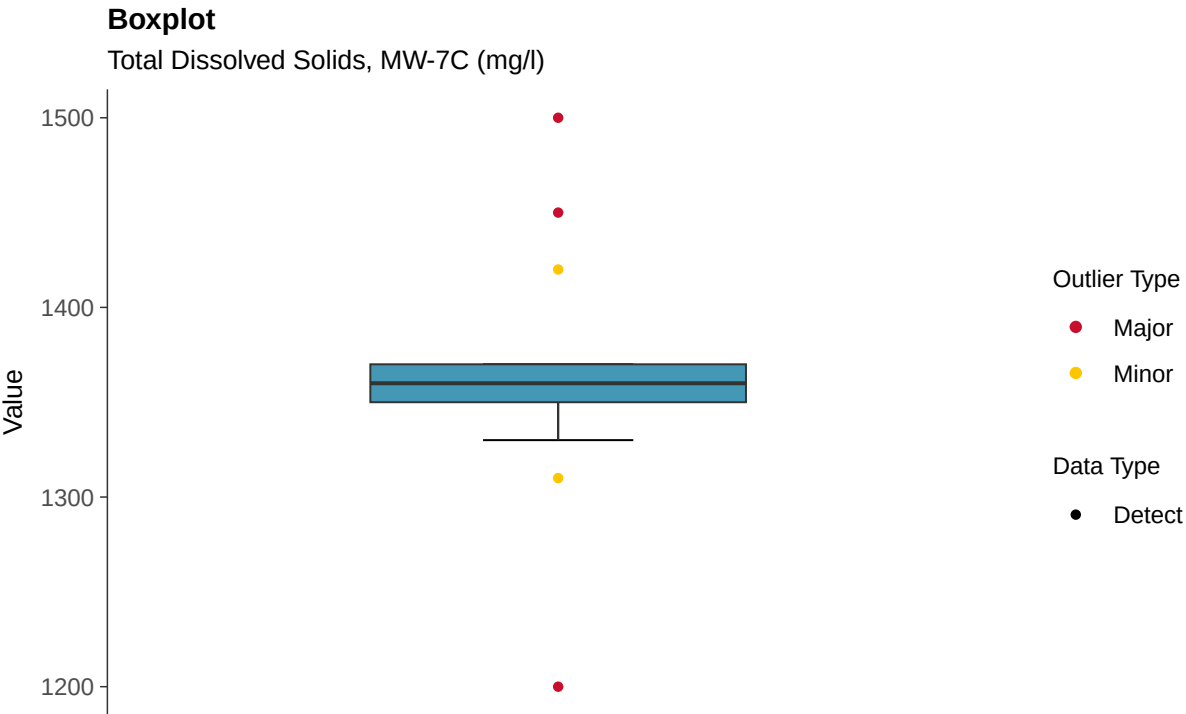


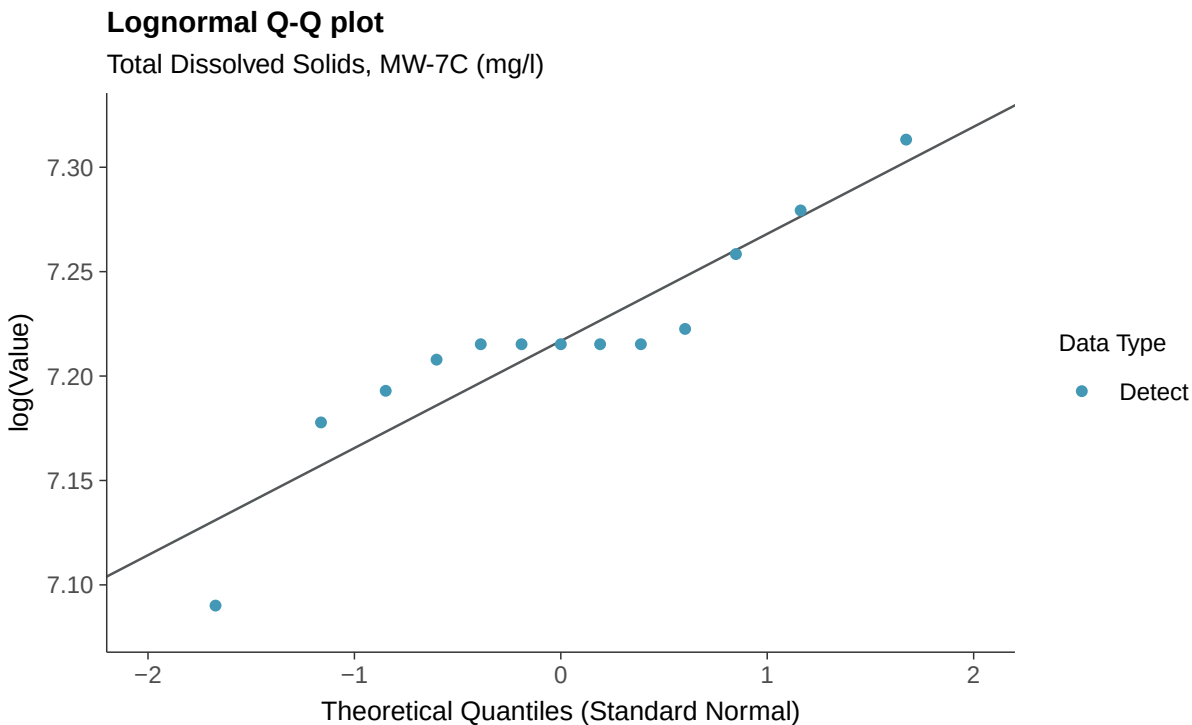
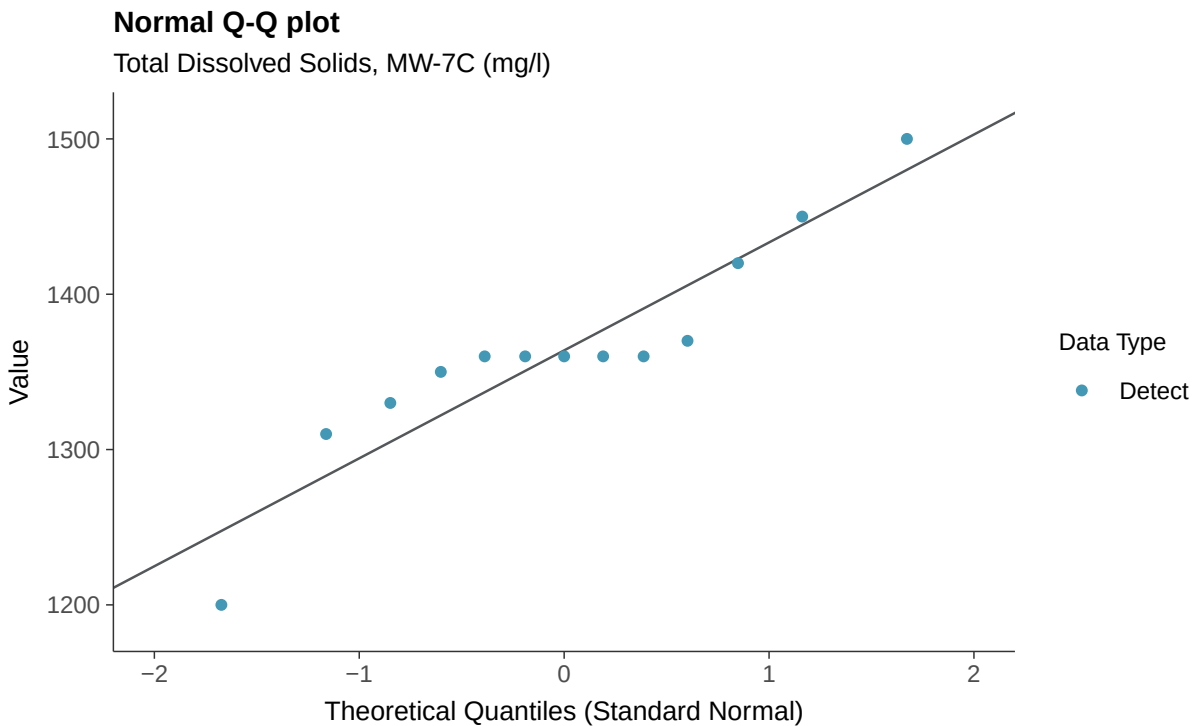


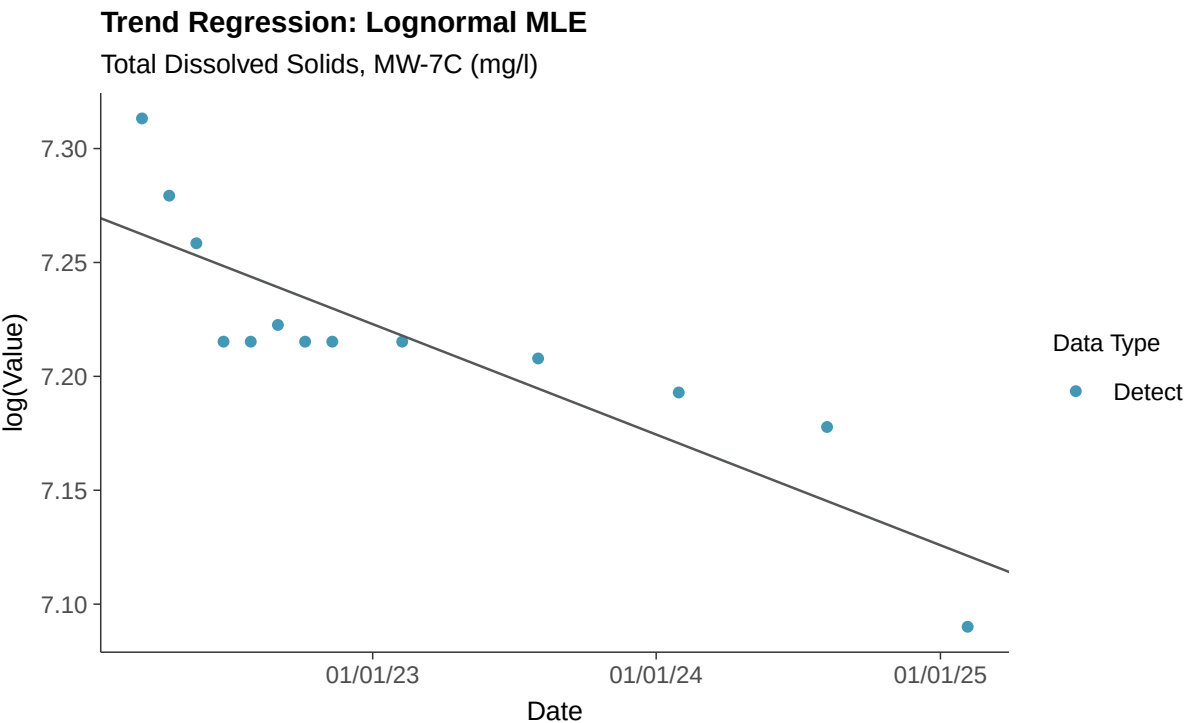
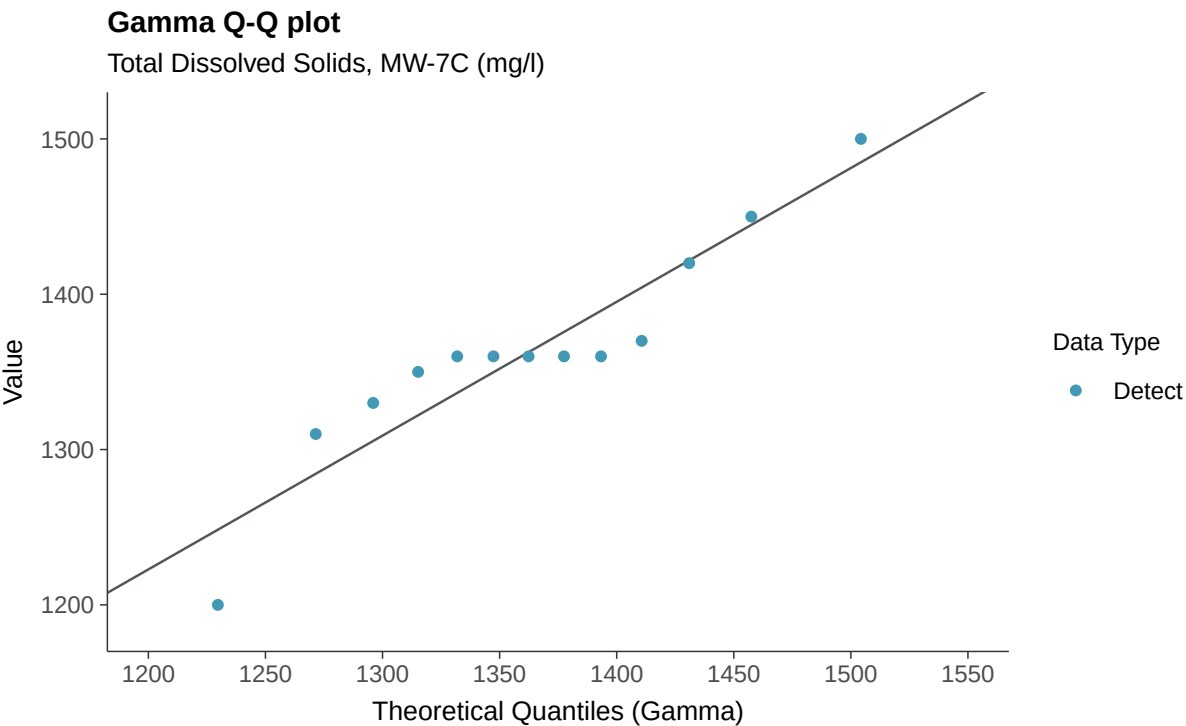
Appendix III: Total Dissolved Solids, MW-7C

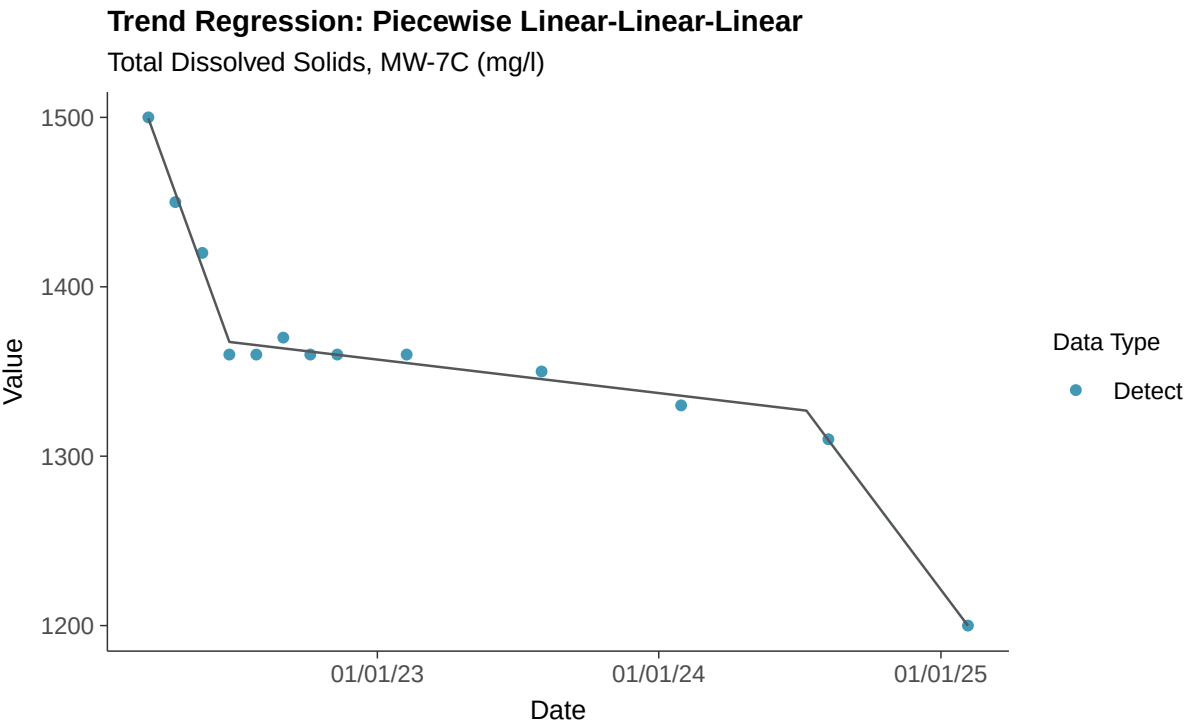
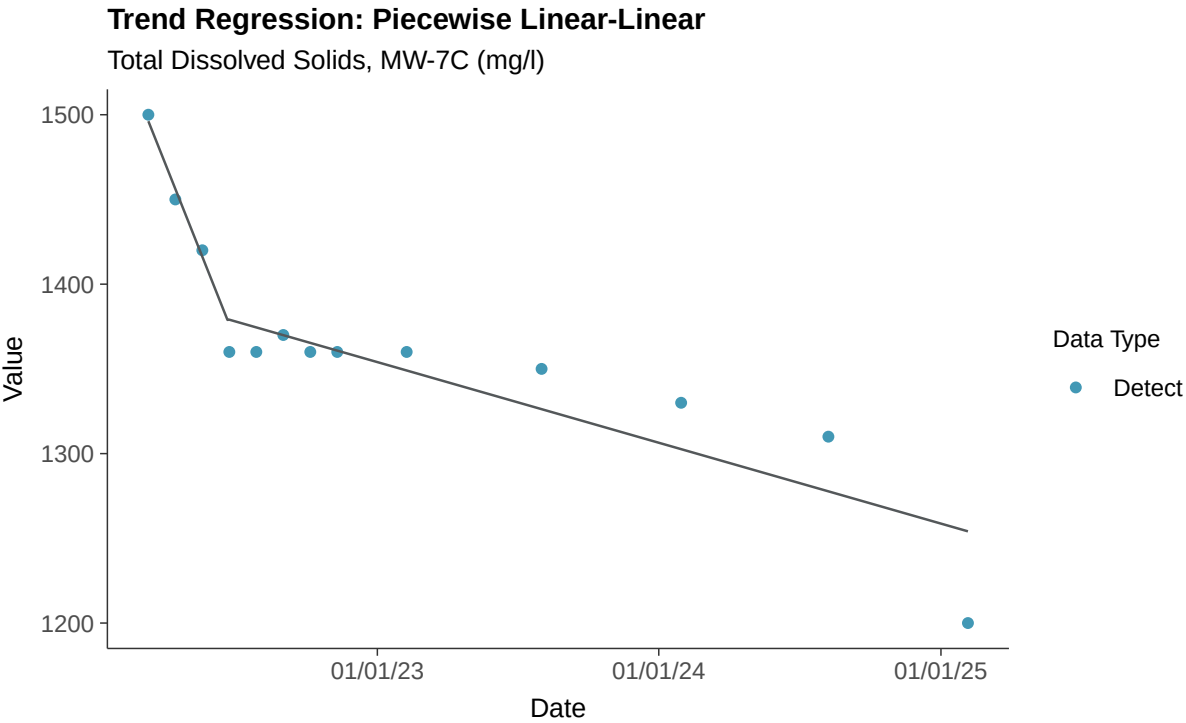
ID: 16_2_126







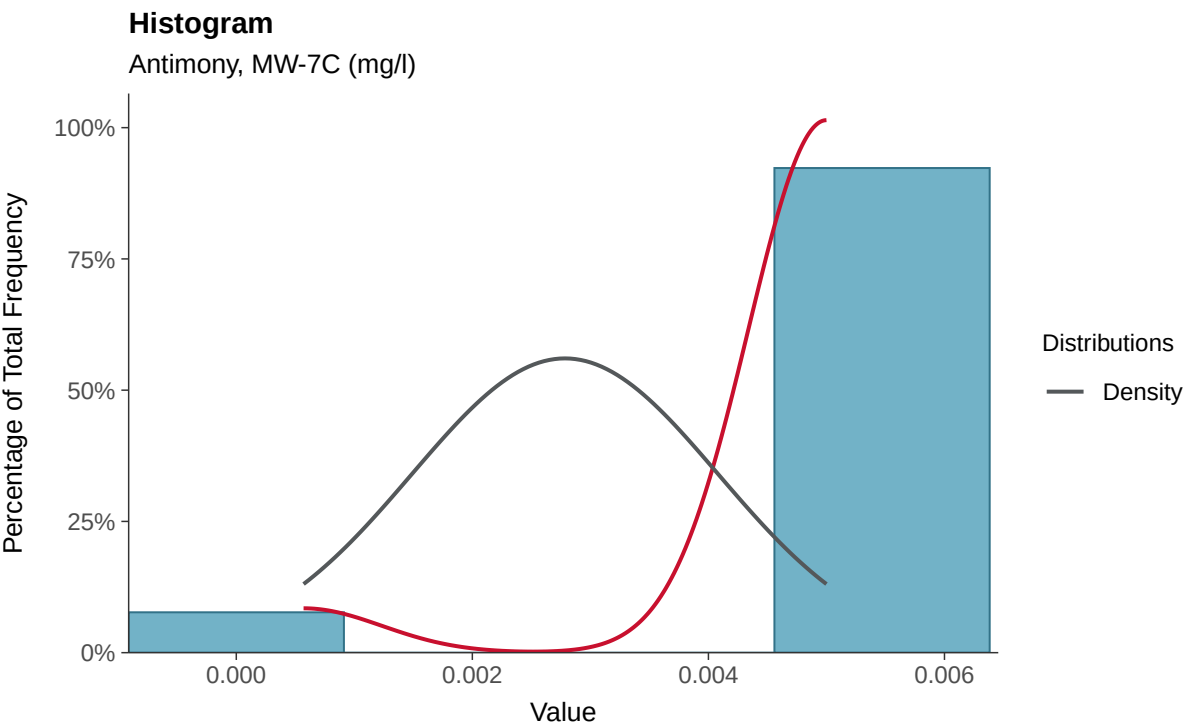
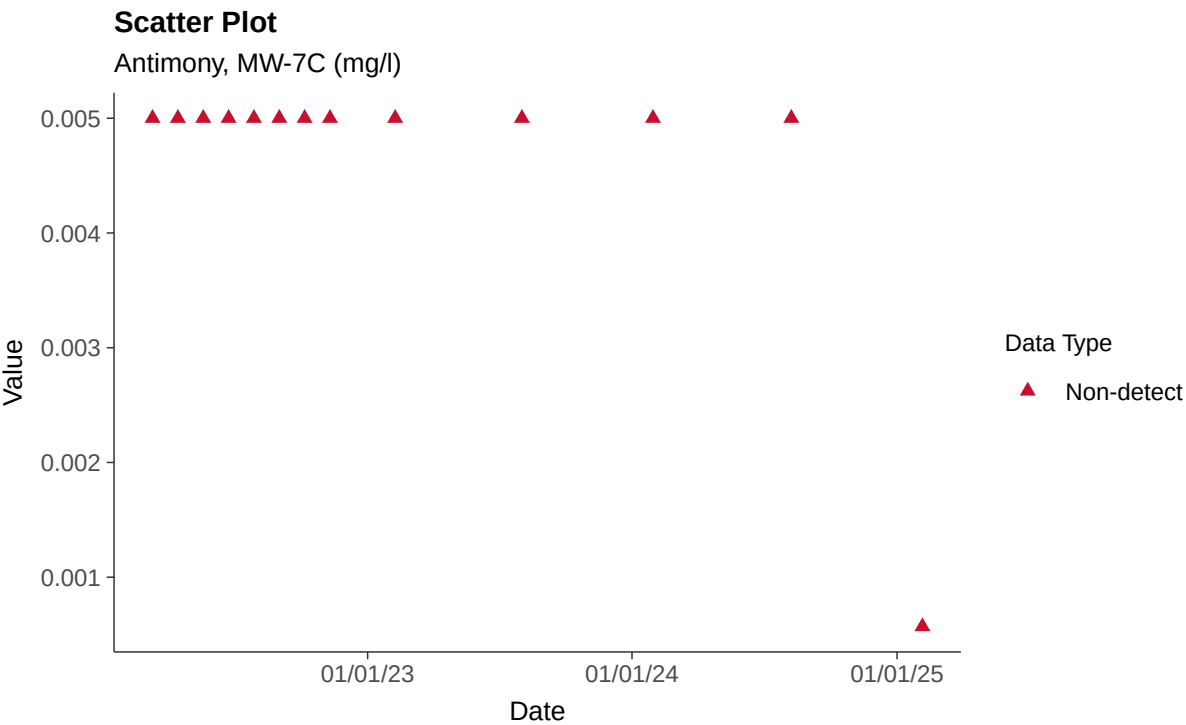


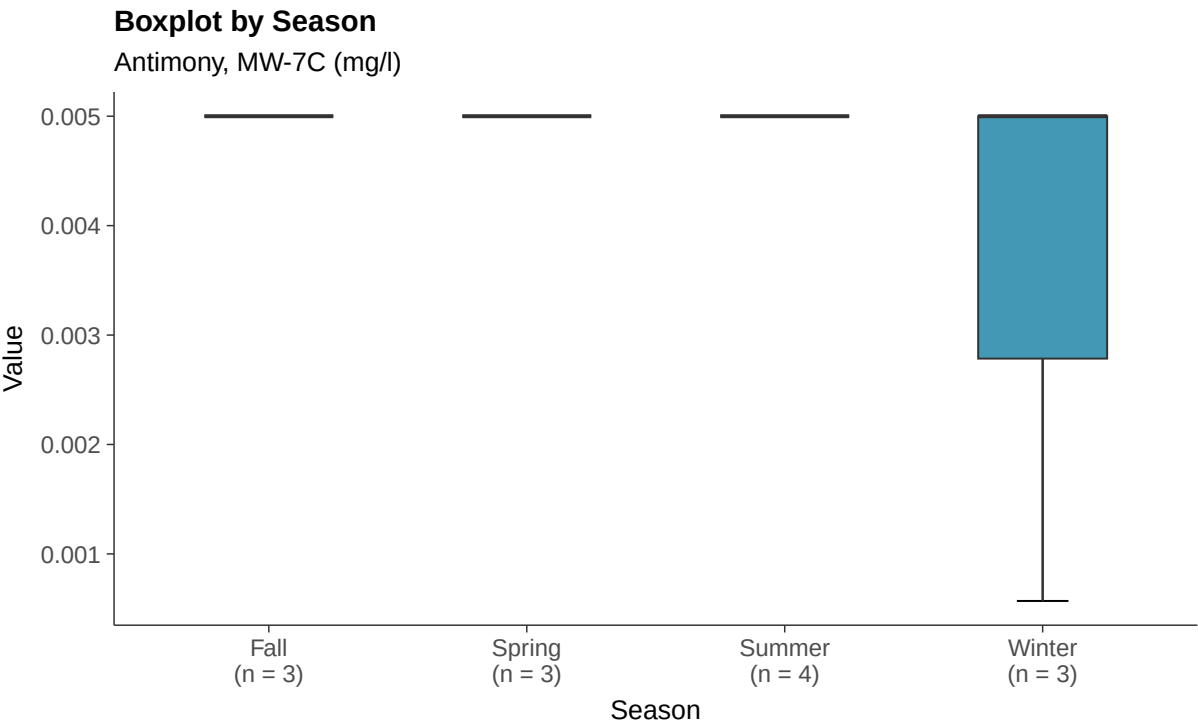
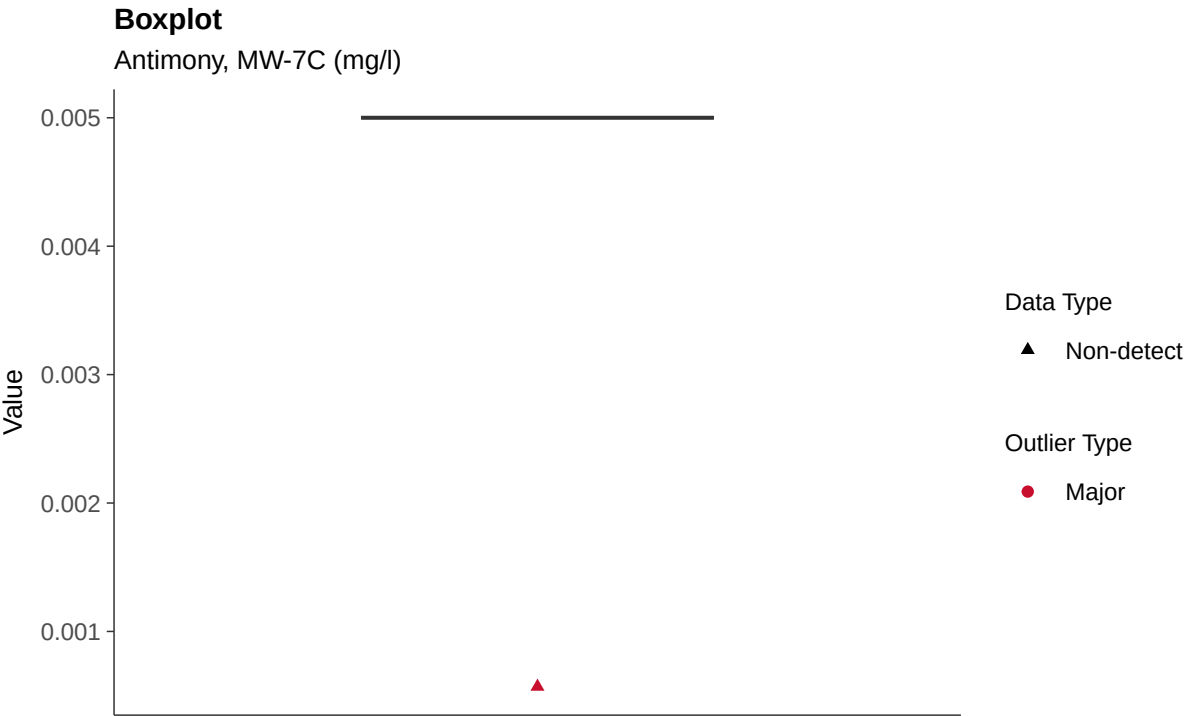




Appendix IV: Antimony, MW-7C

ID: 16_3_101

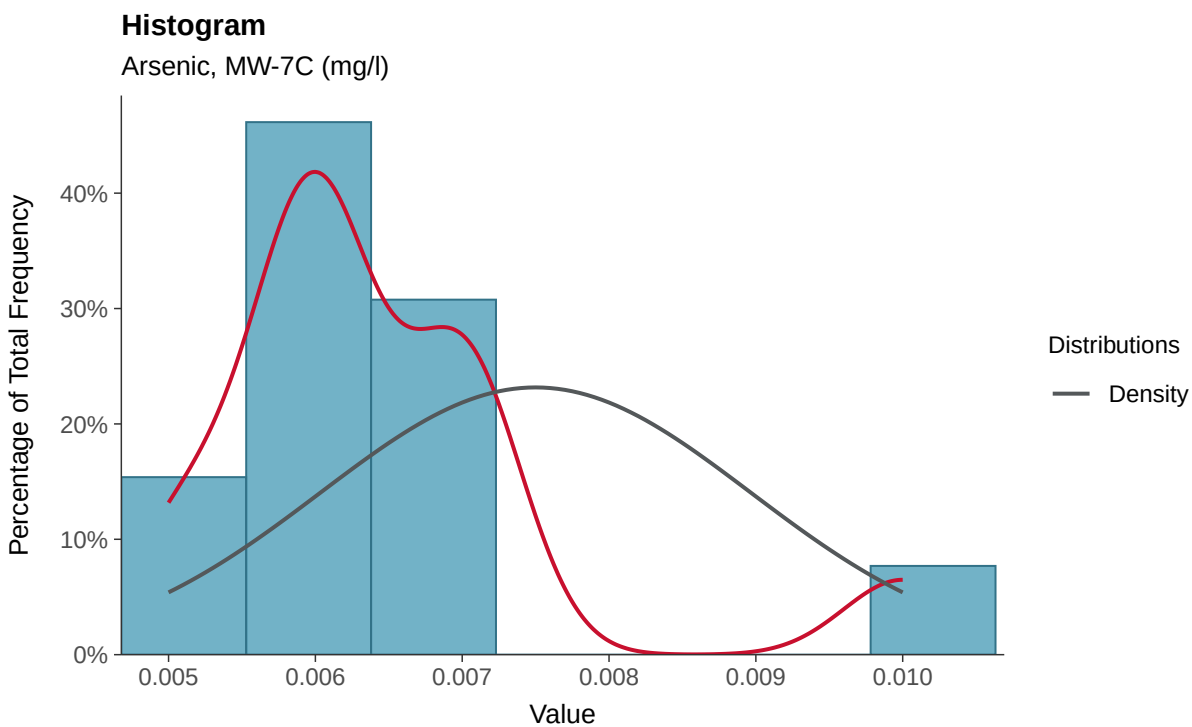
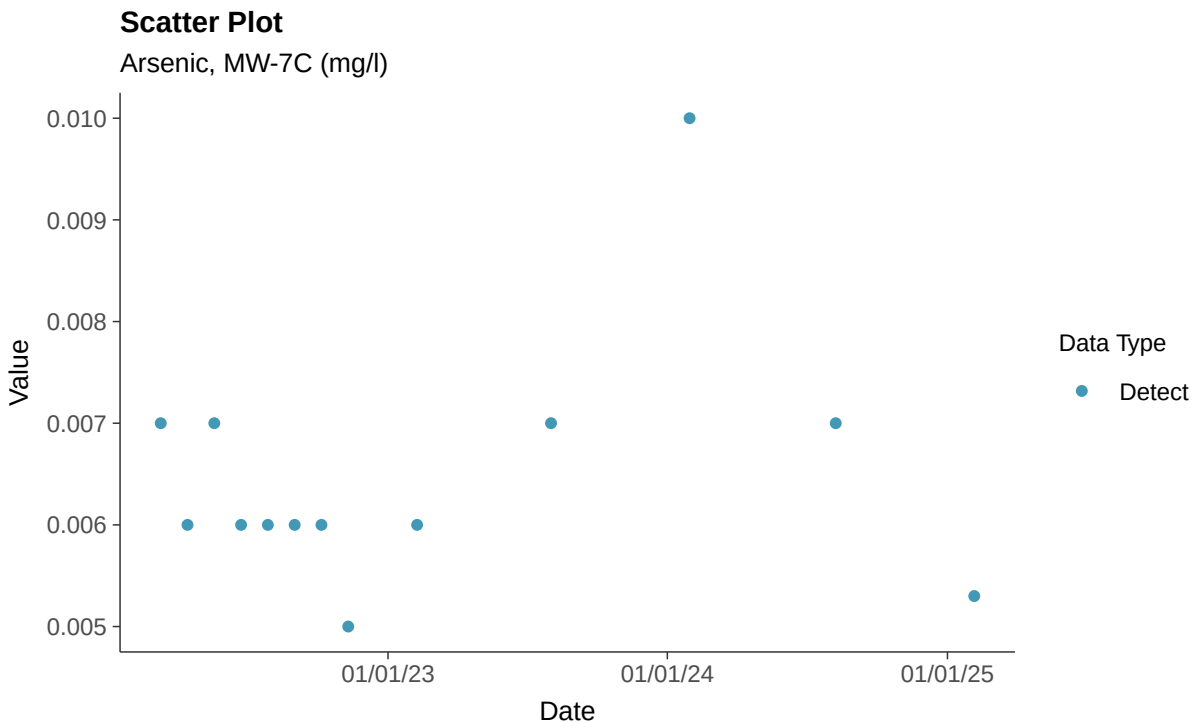


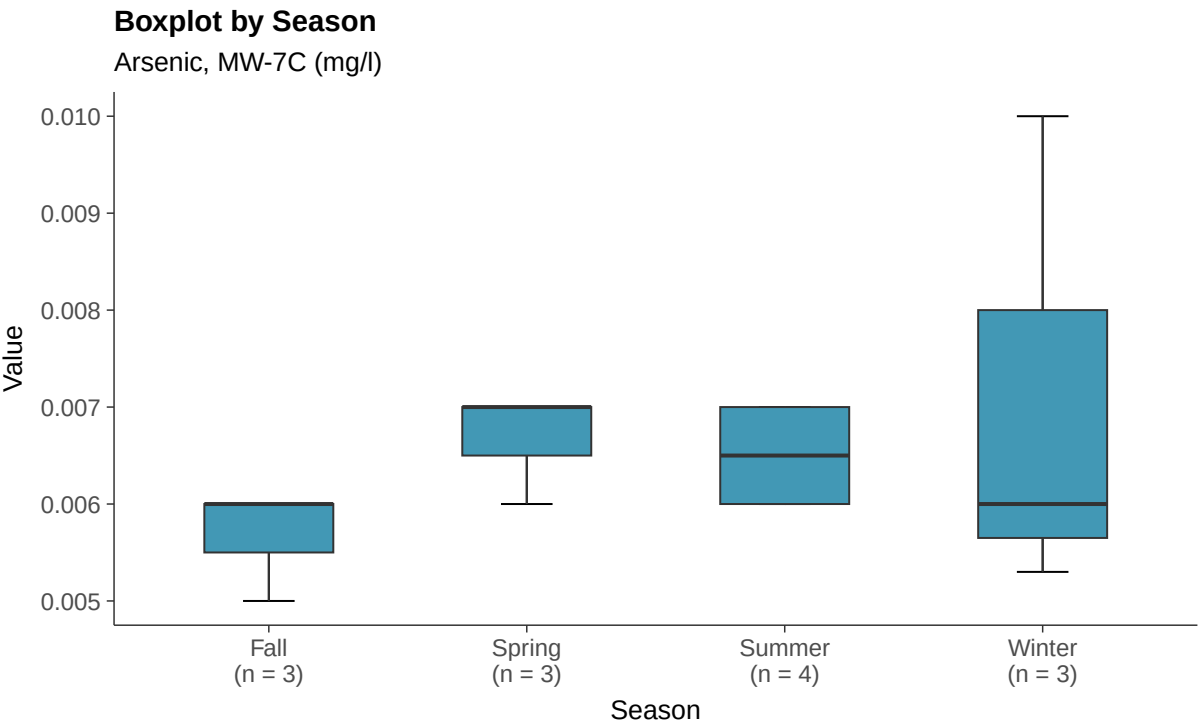
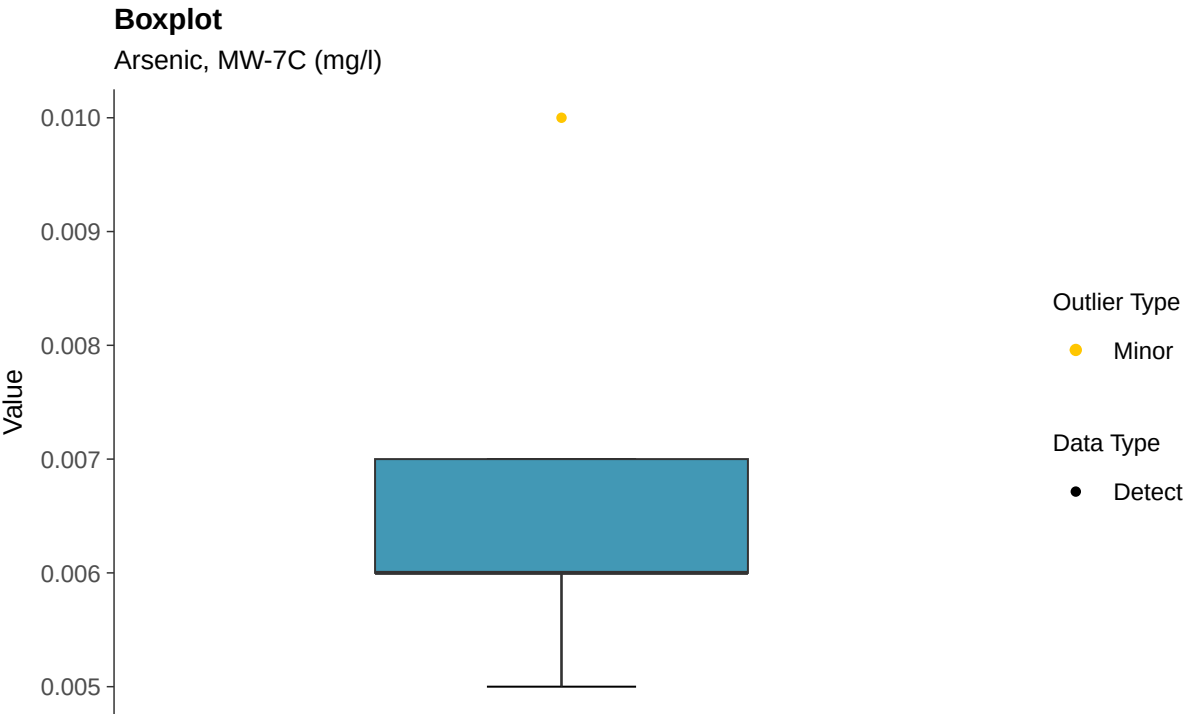


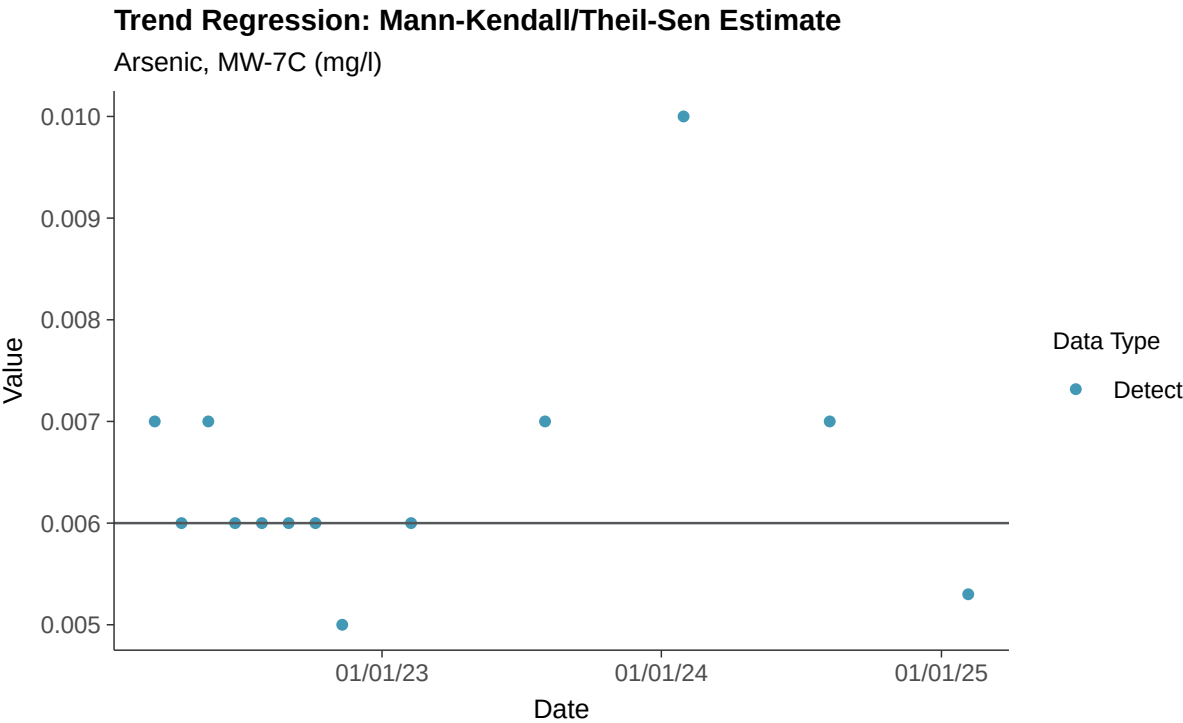
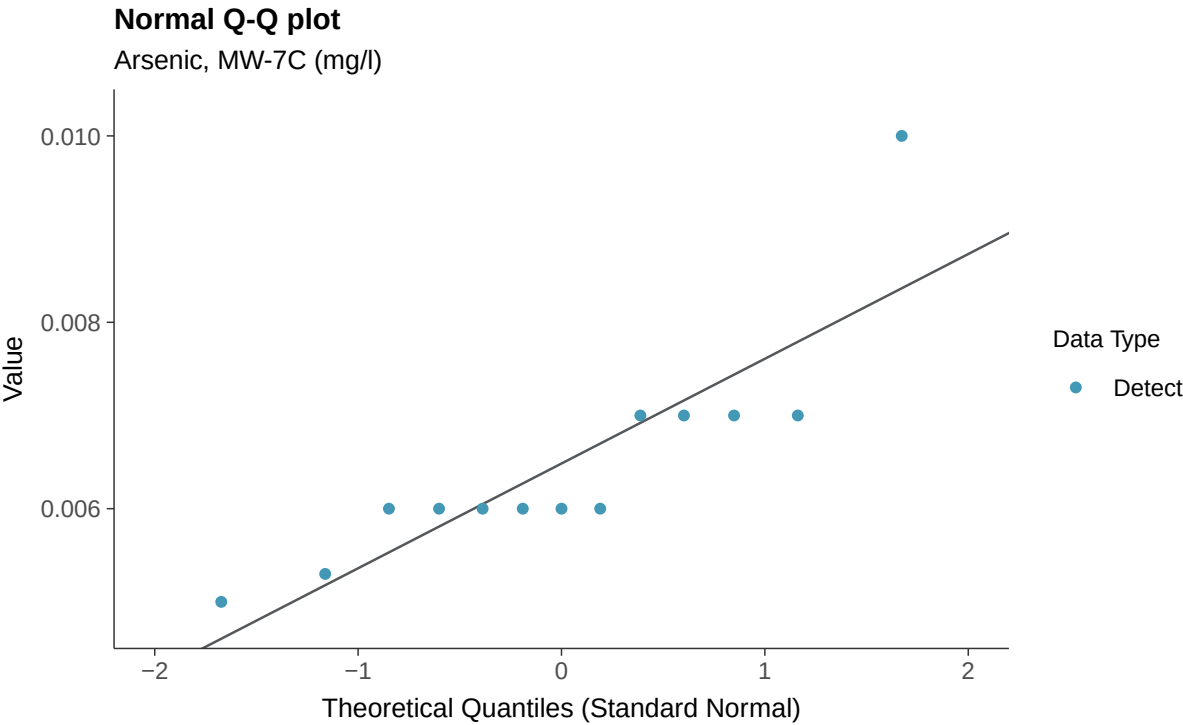


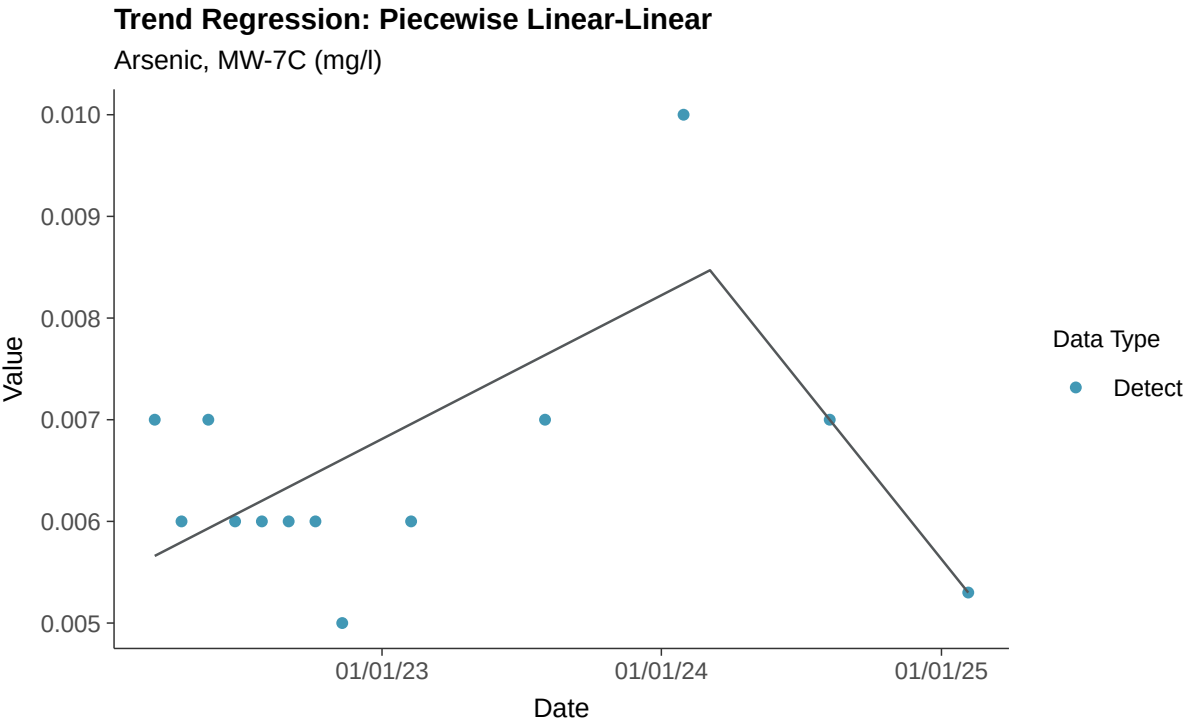
Appendix IV: Arsenic, MW-7C

ID: 16_3_102





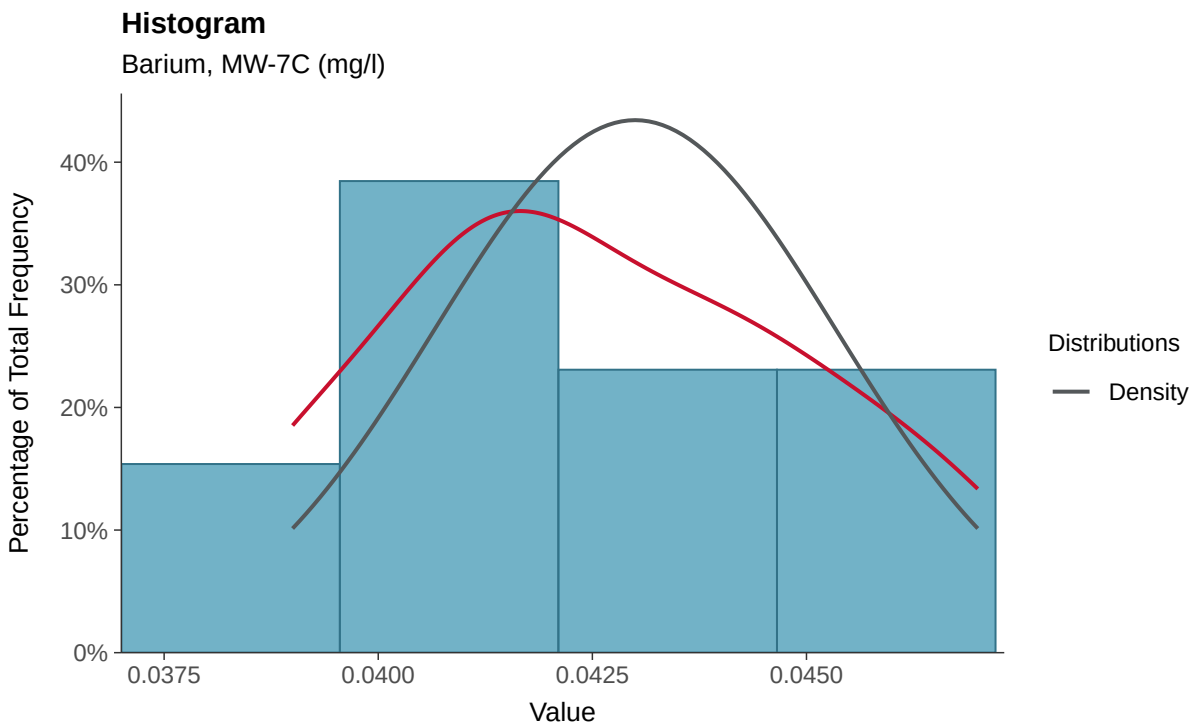
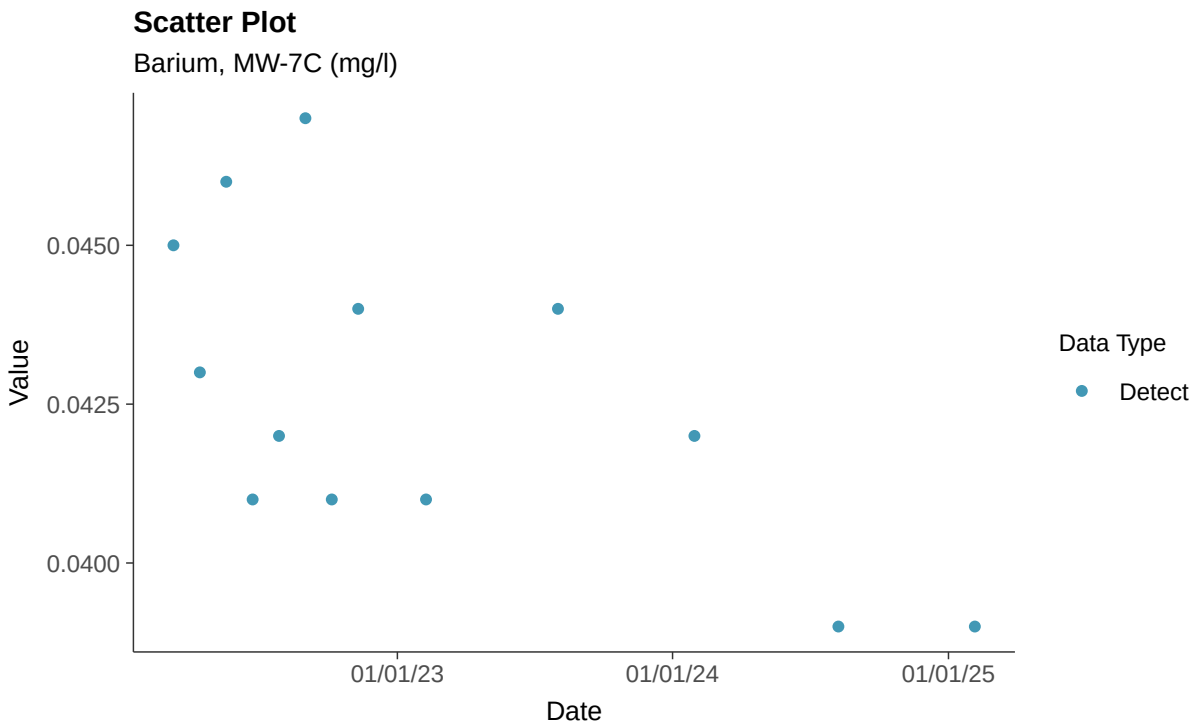


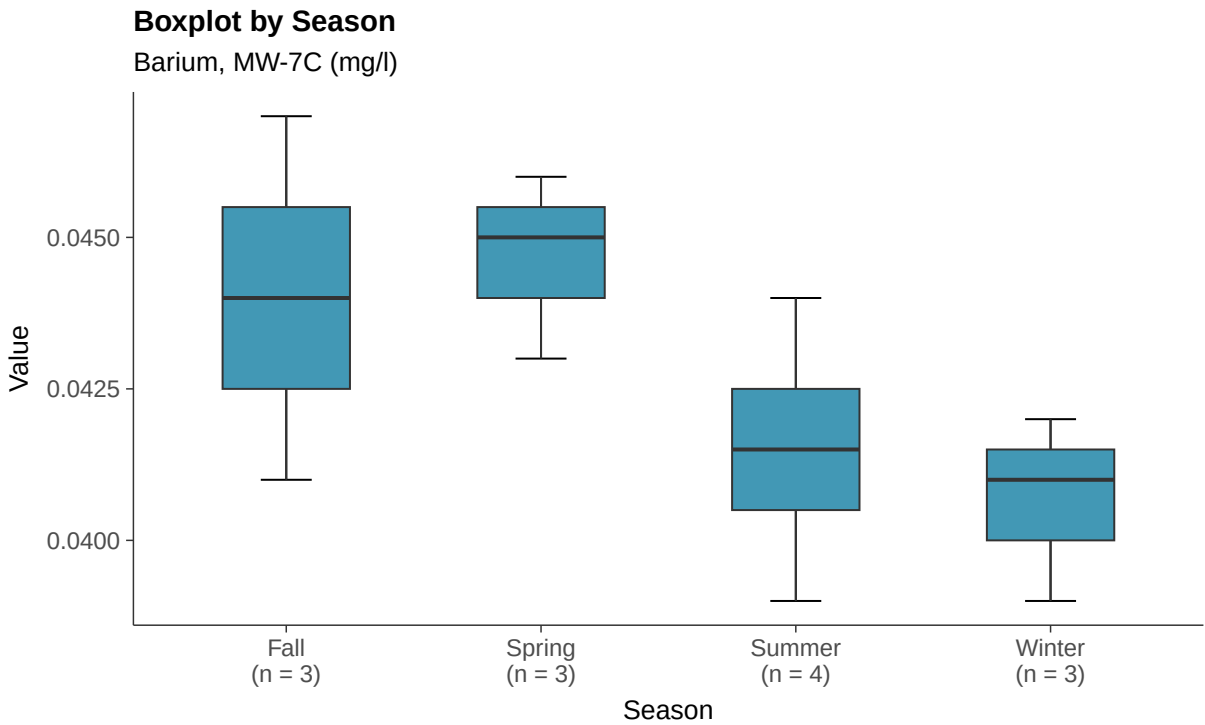
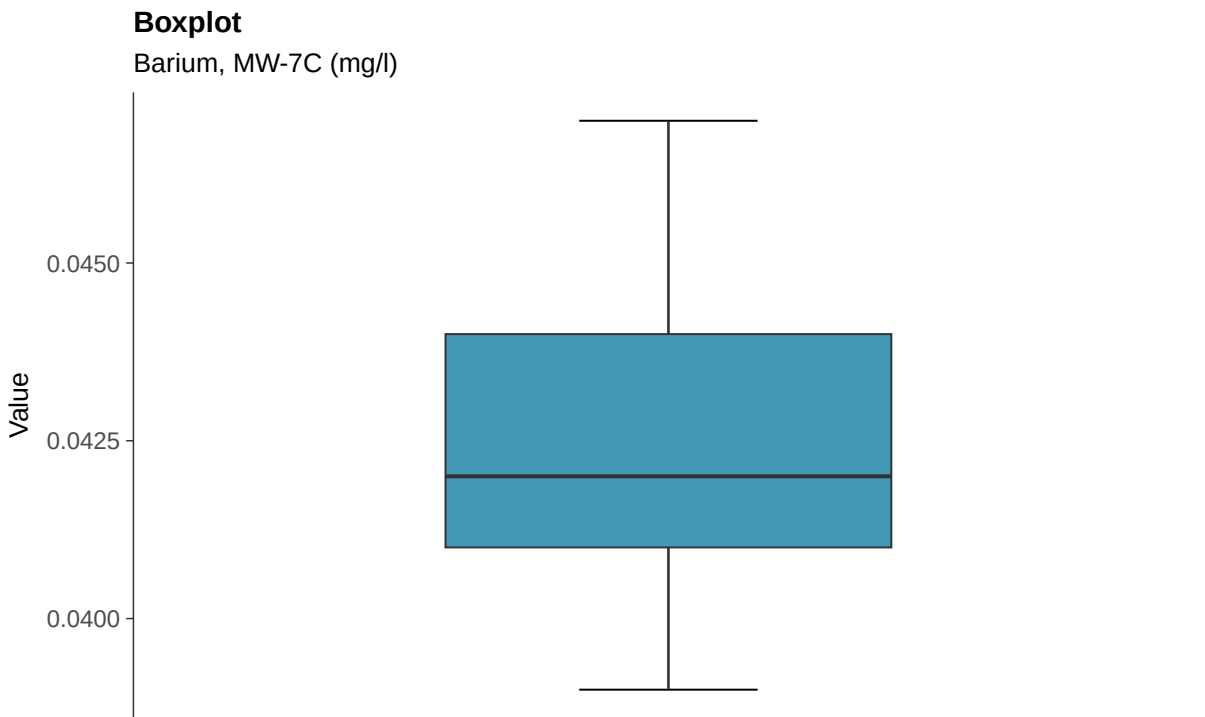


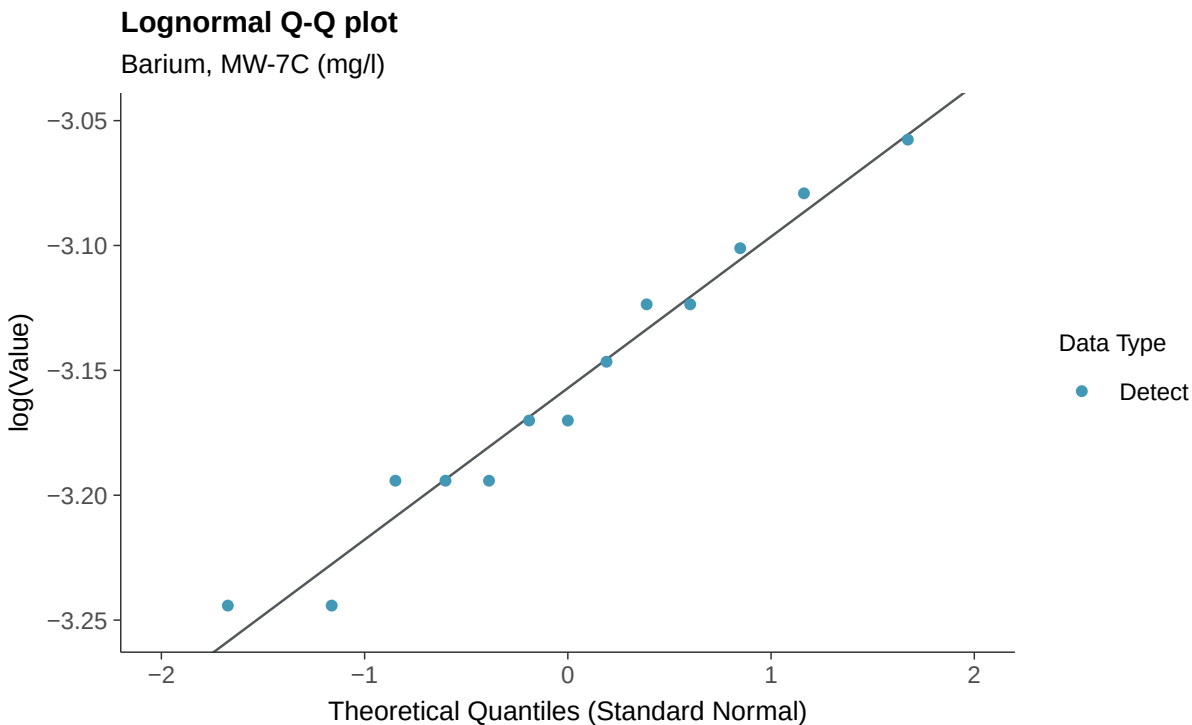
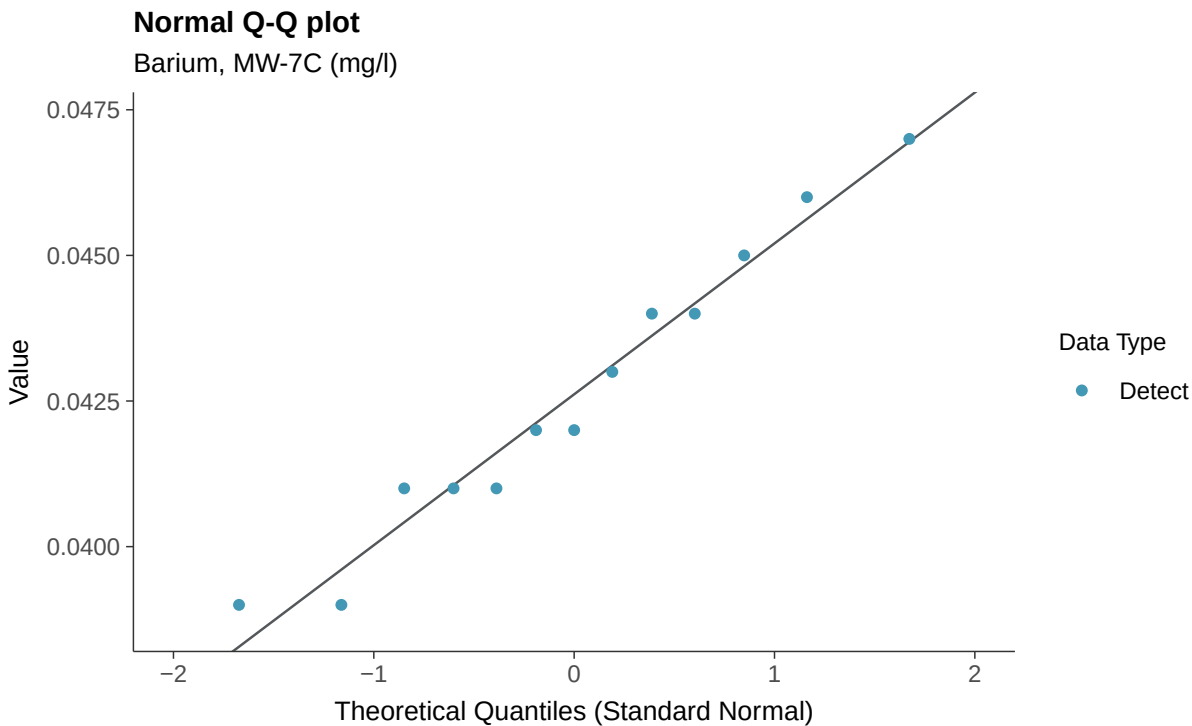


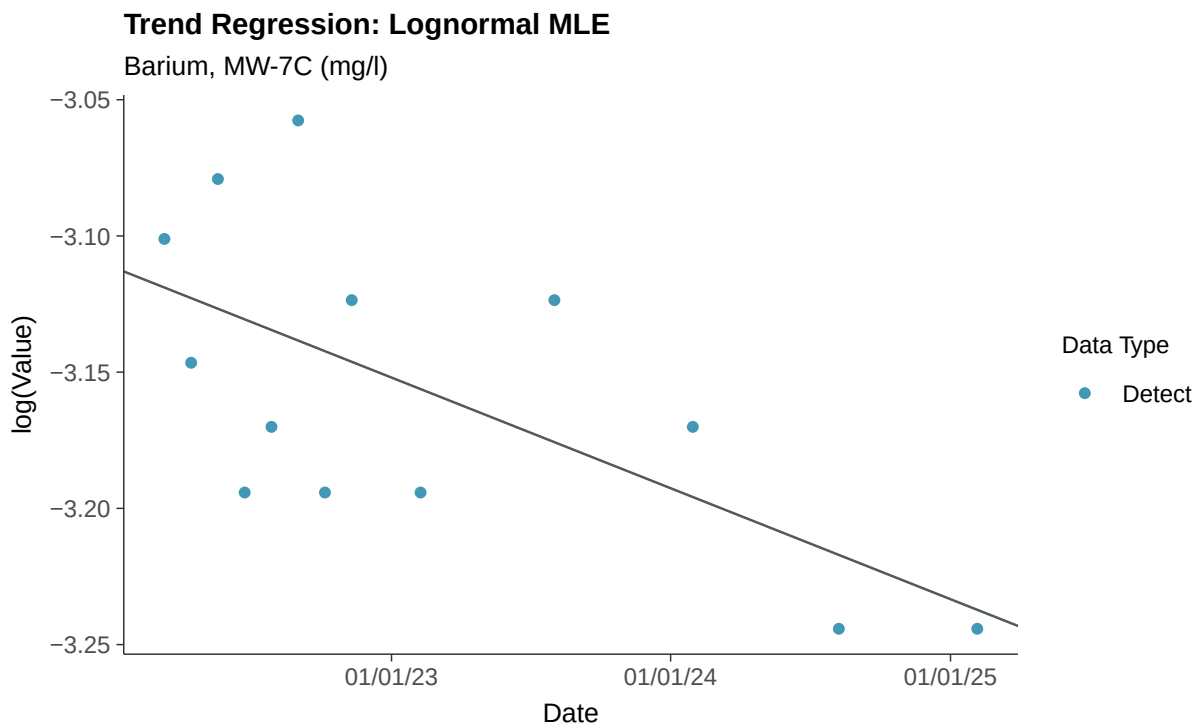
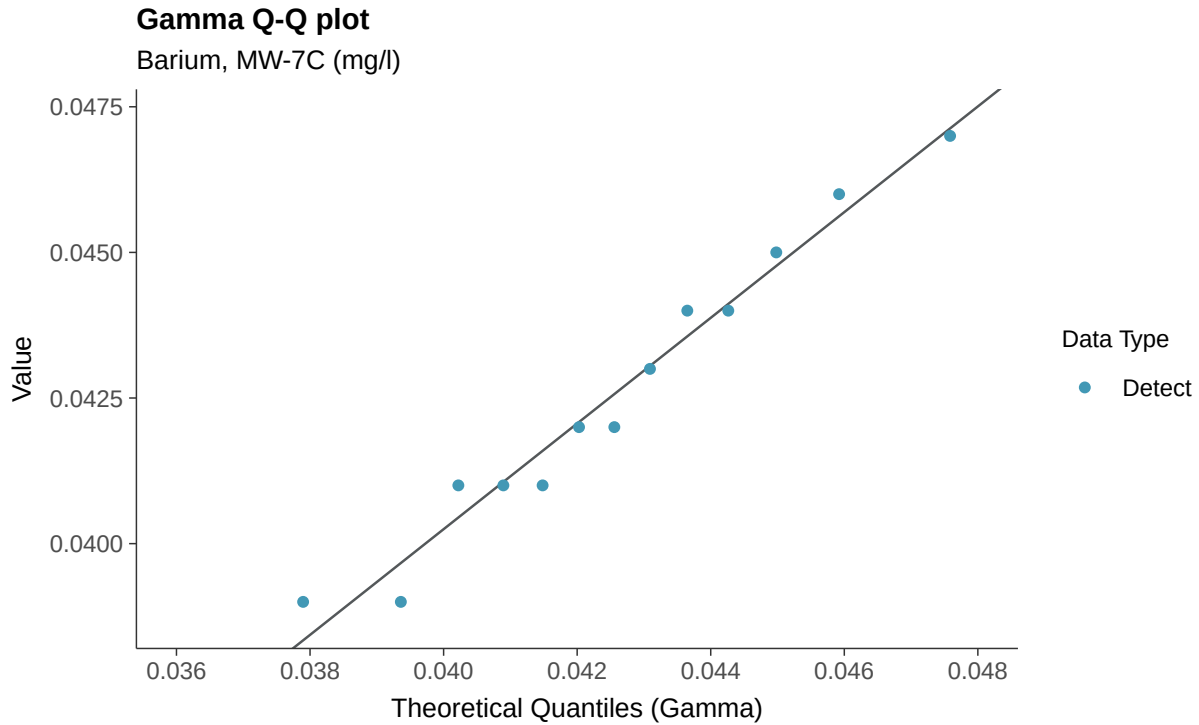
Appendix IV: Barium, MW-7C

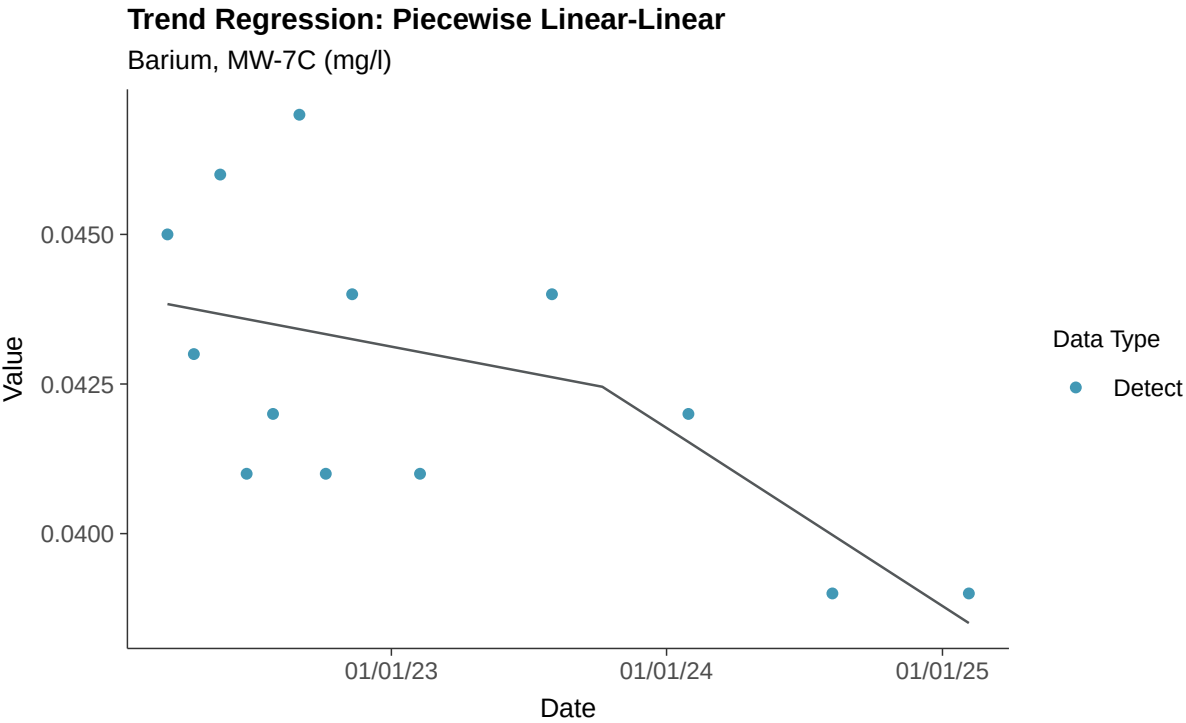
ID: 16_3_103







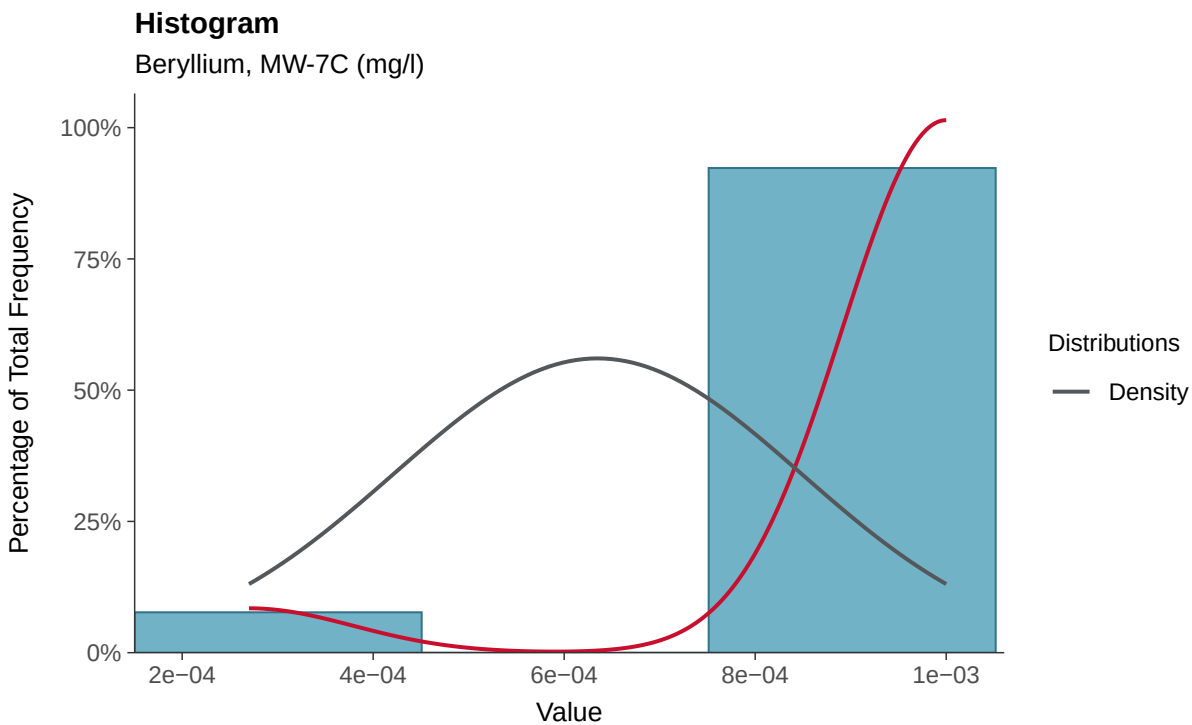
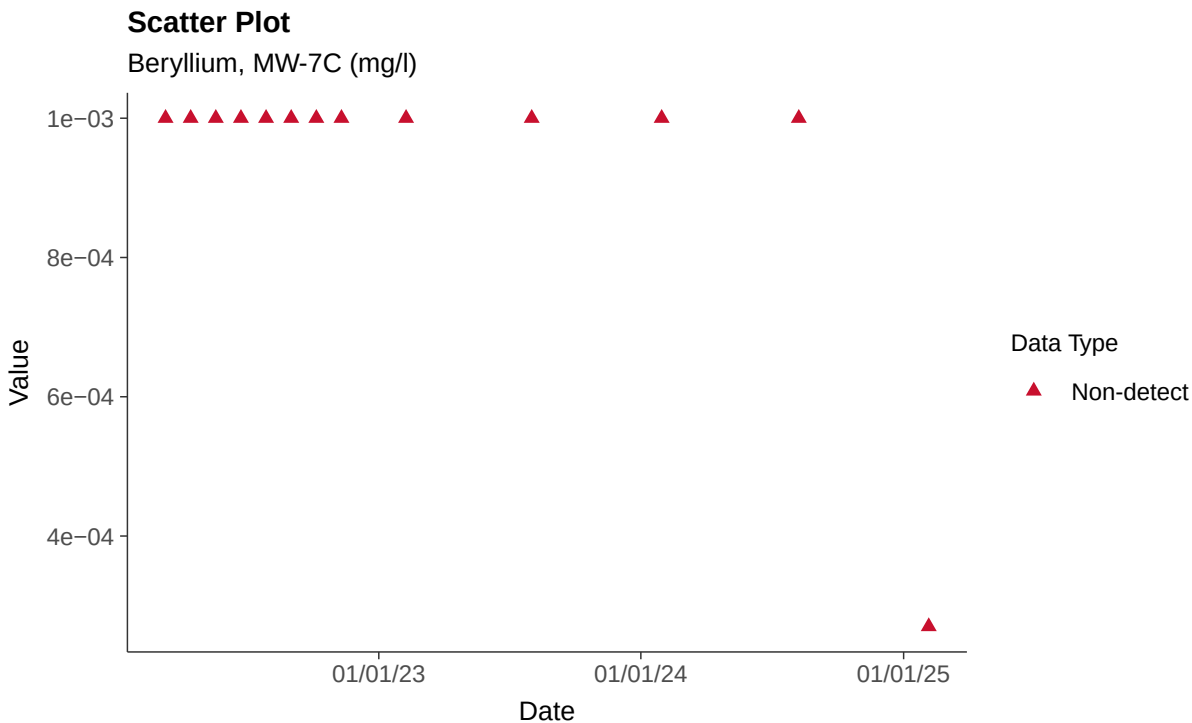


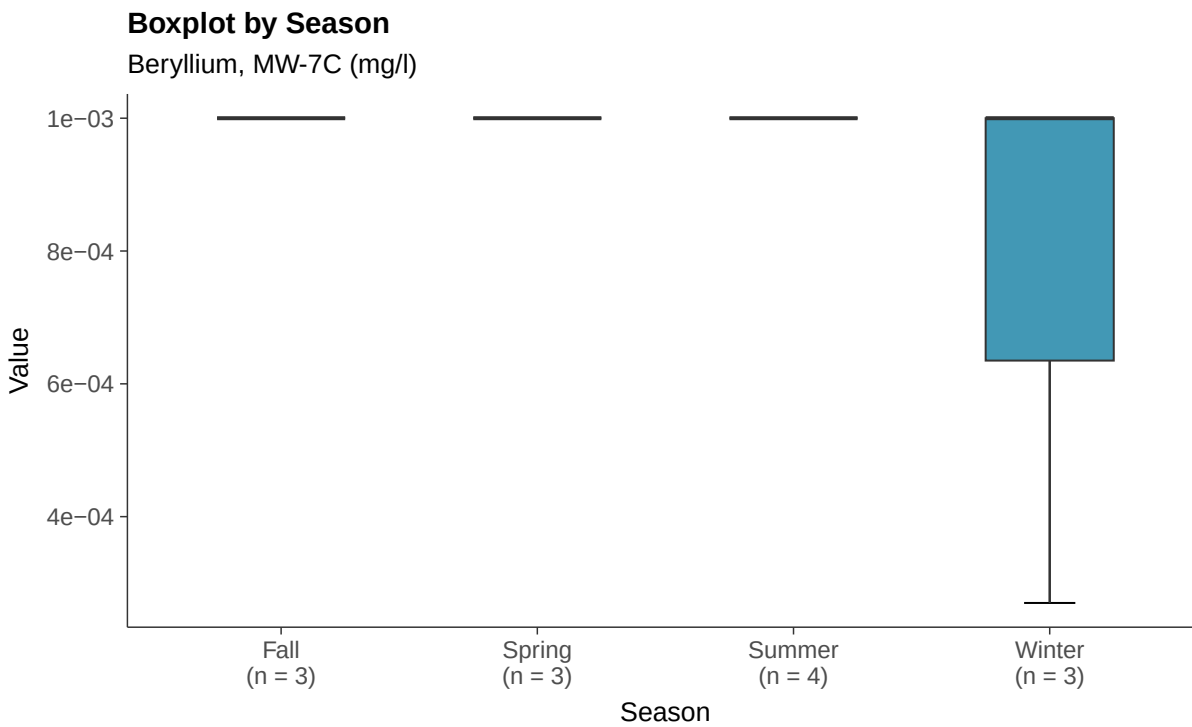
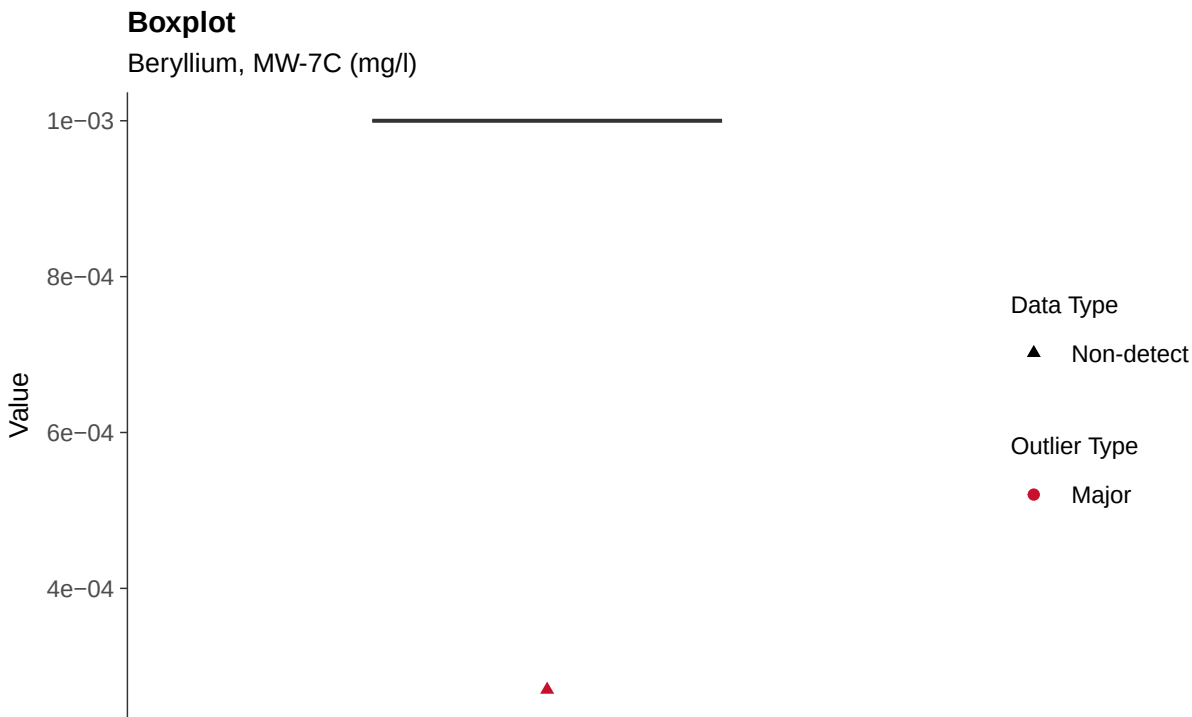




Appendix IV: Beryllium, MW-7C

ID: 16_3_104

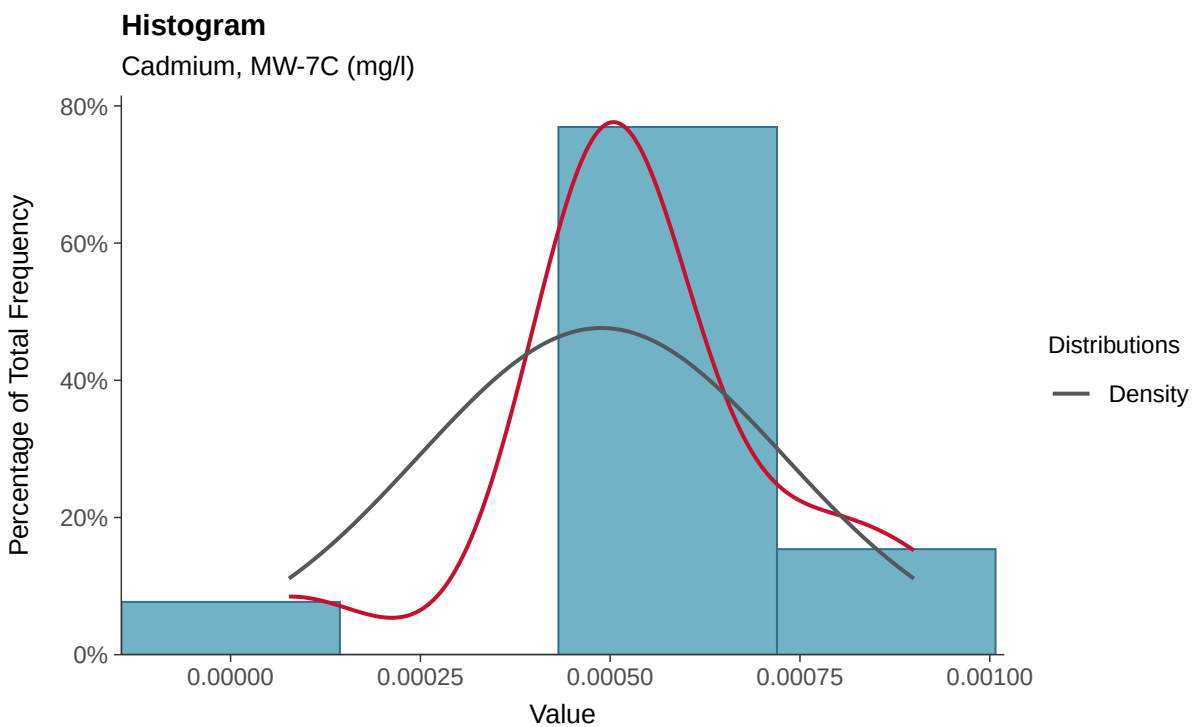
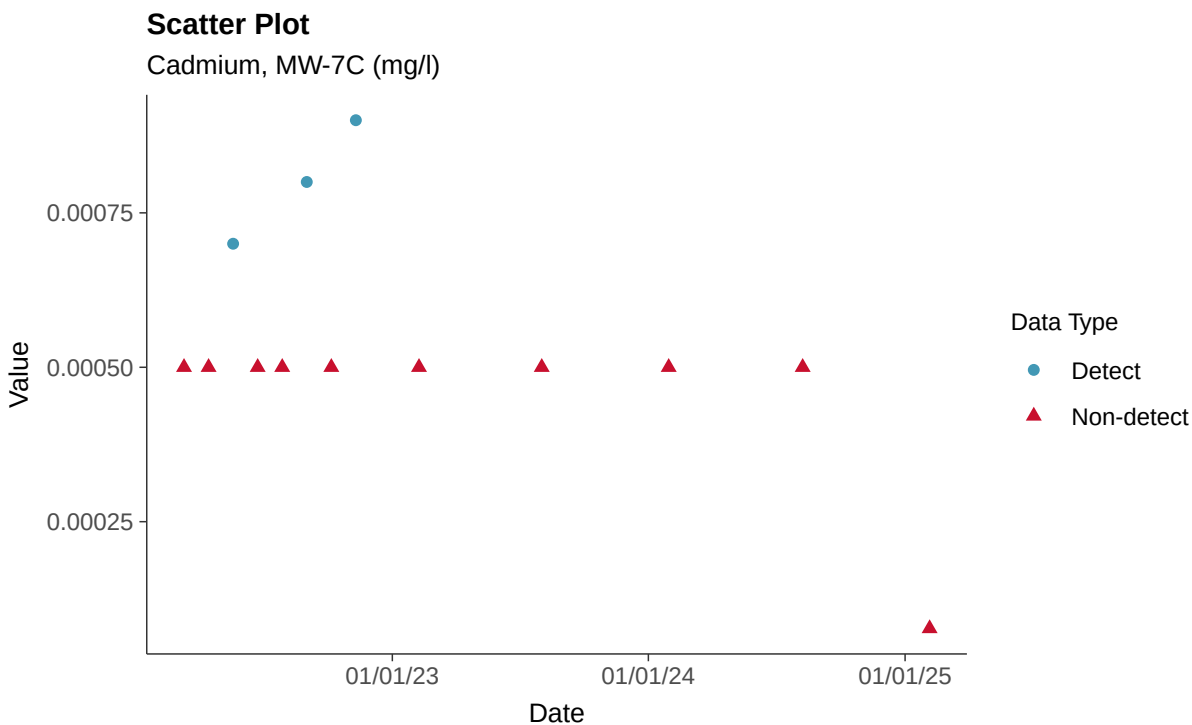


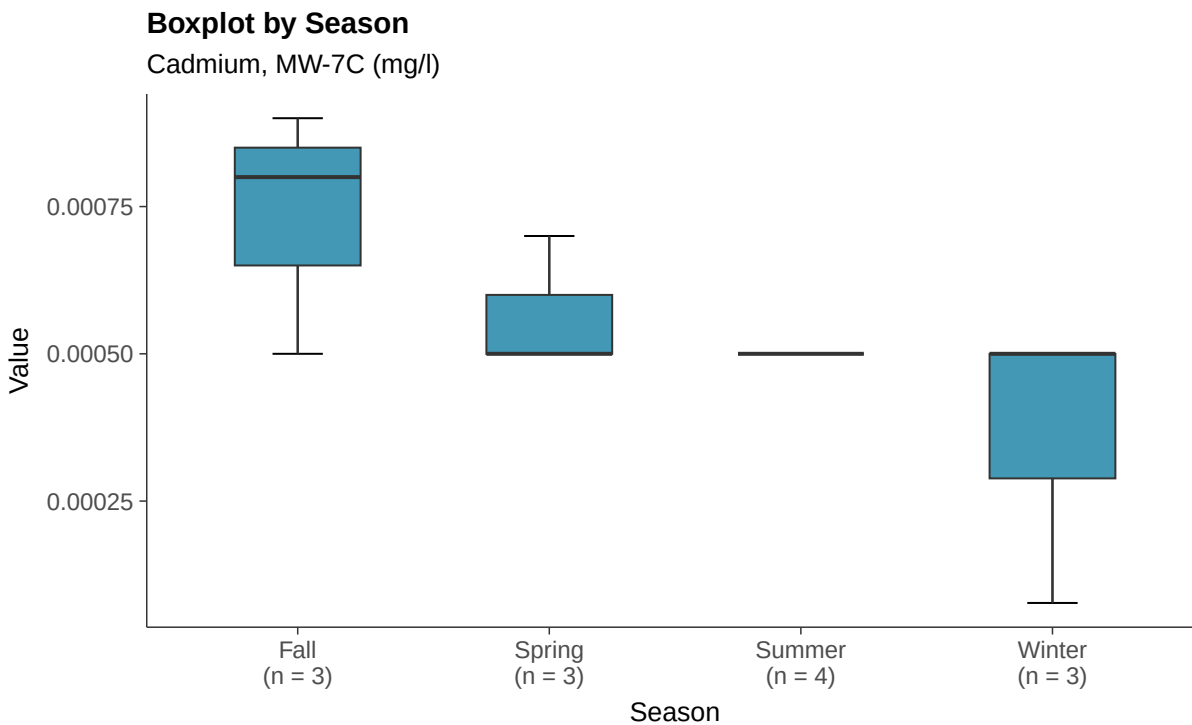
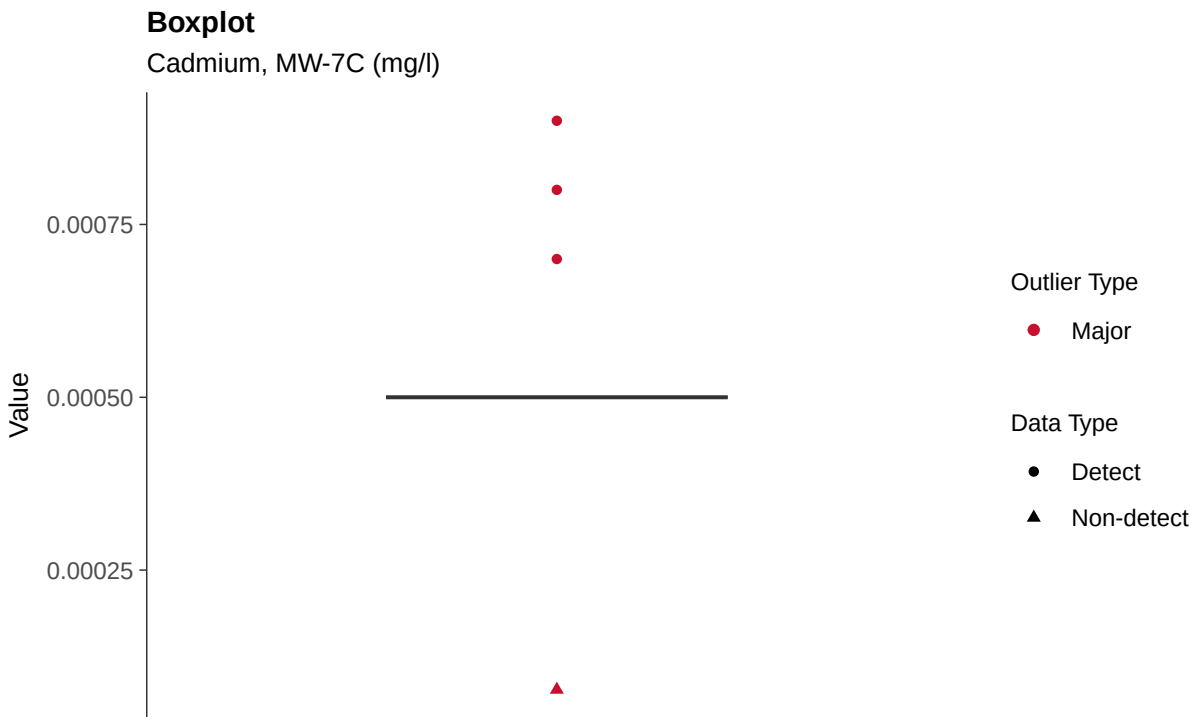


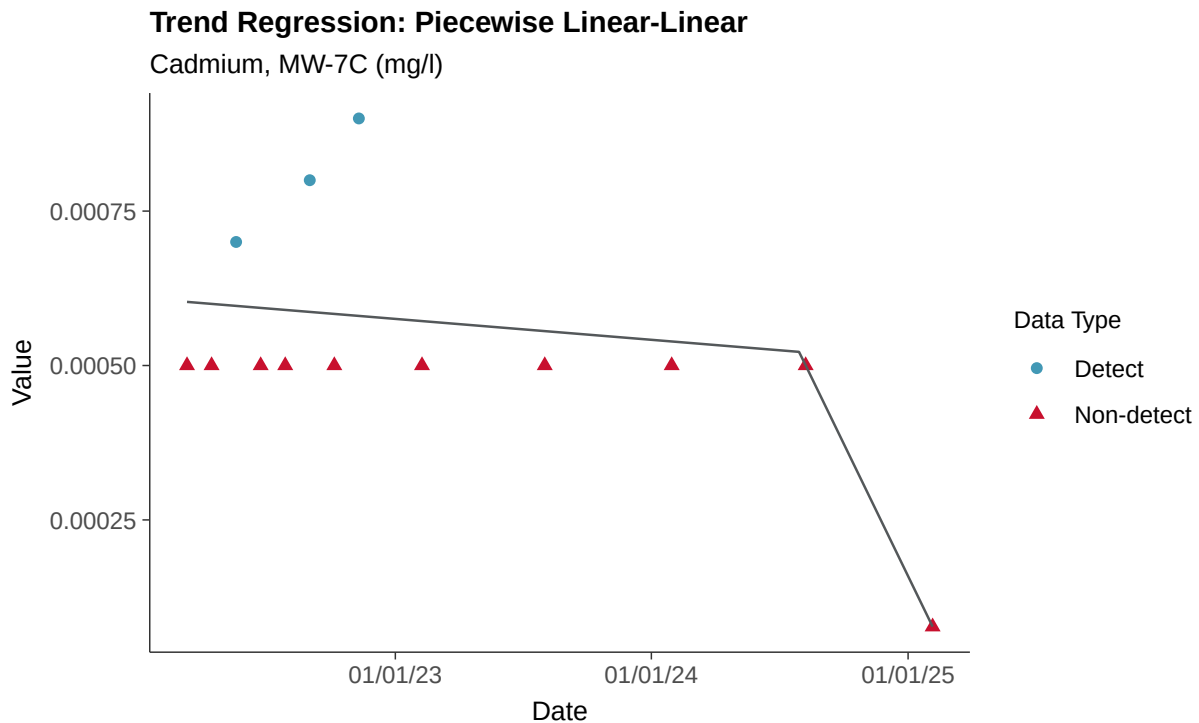
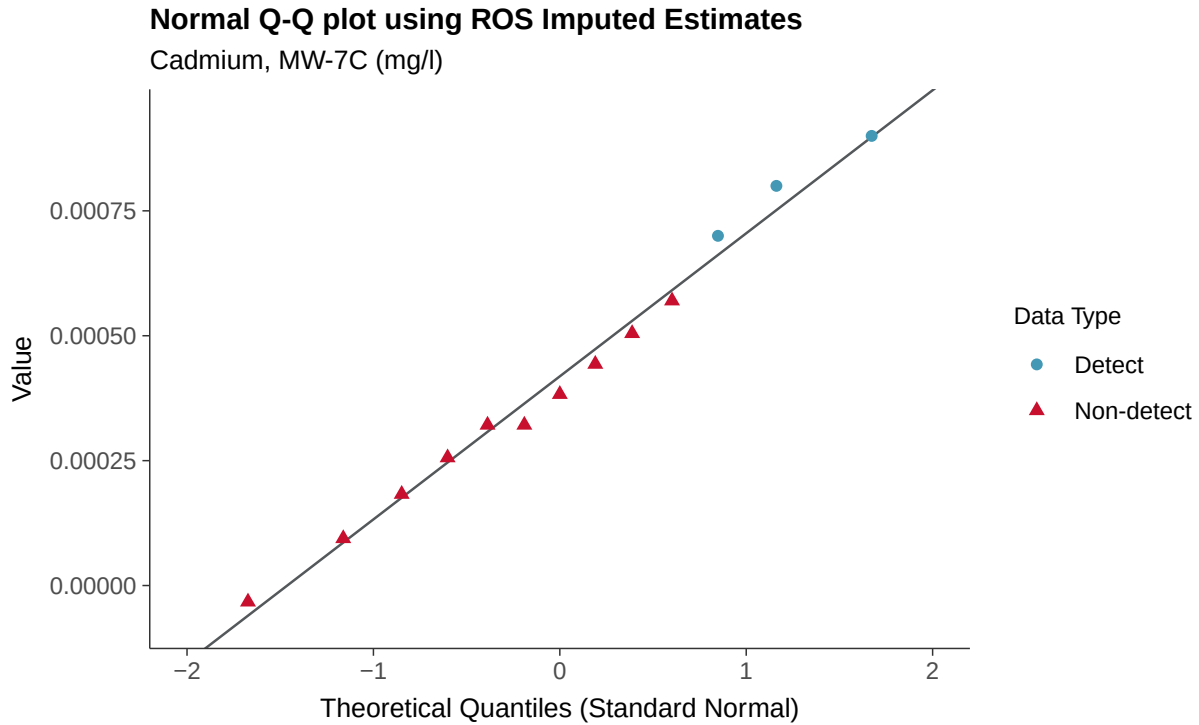


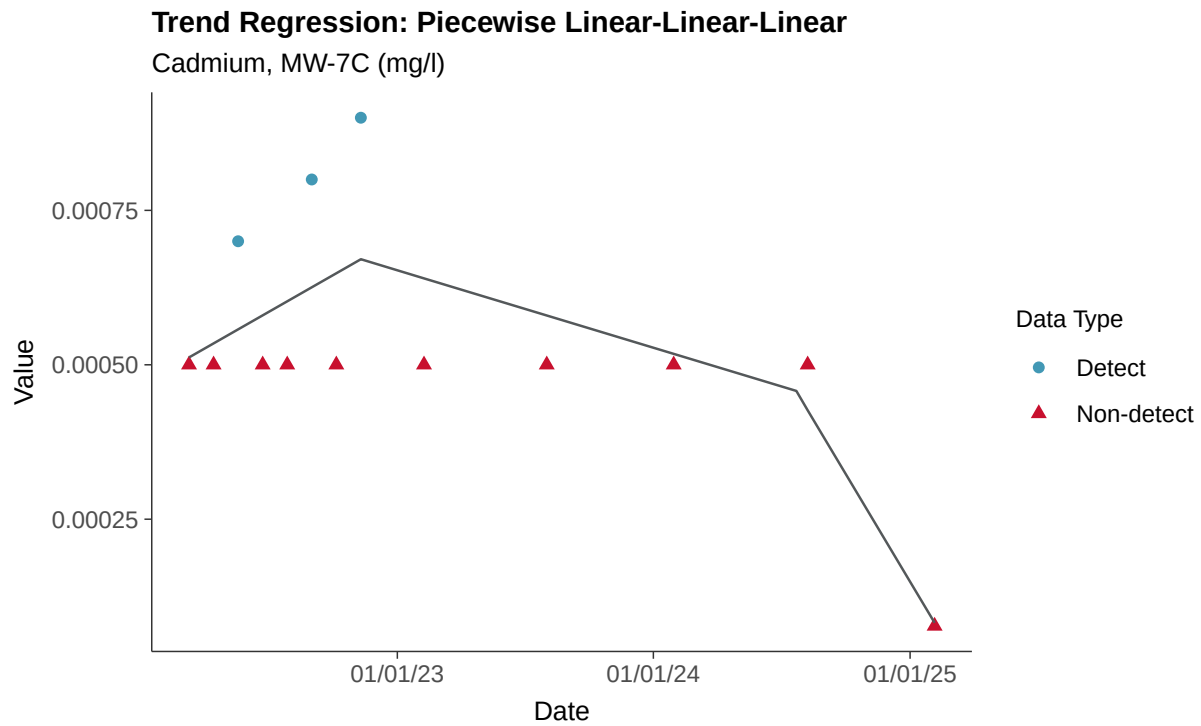
Appendix IV: Cadmium, MW-7C

ID: 16_3_106





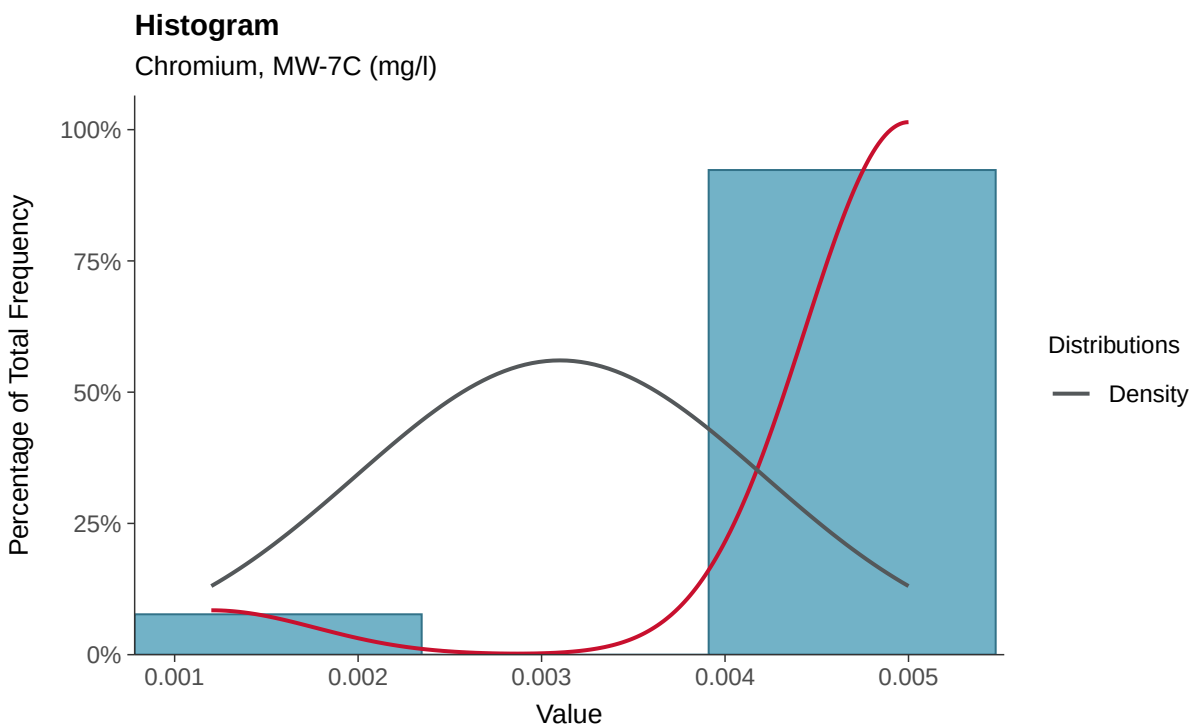
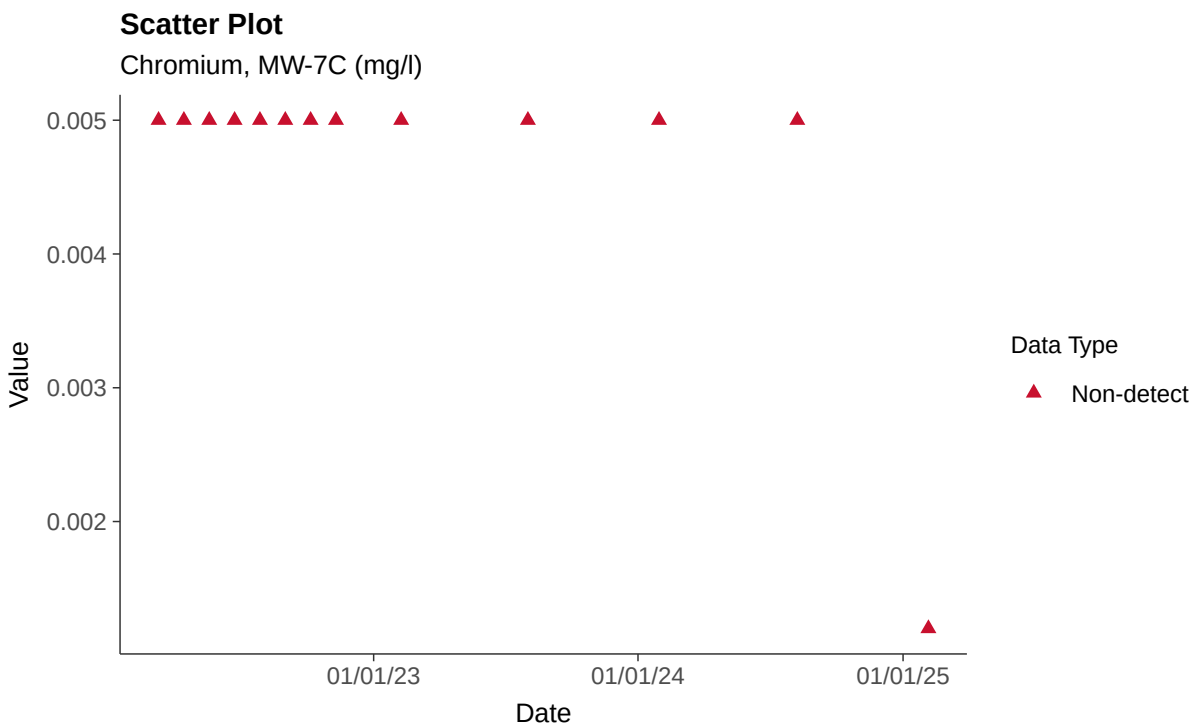


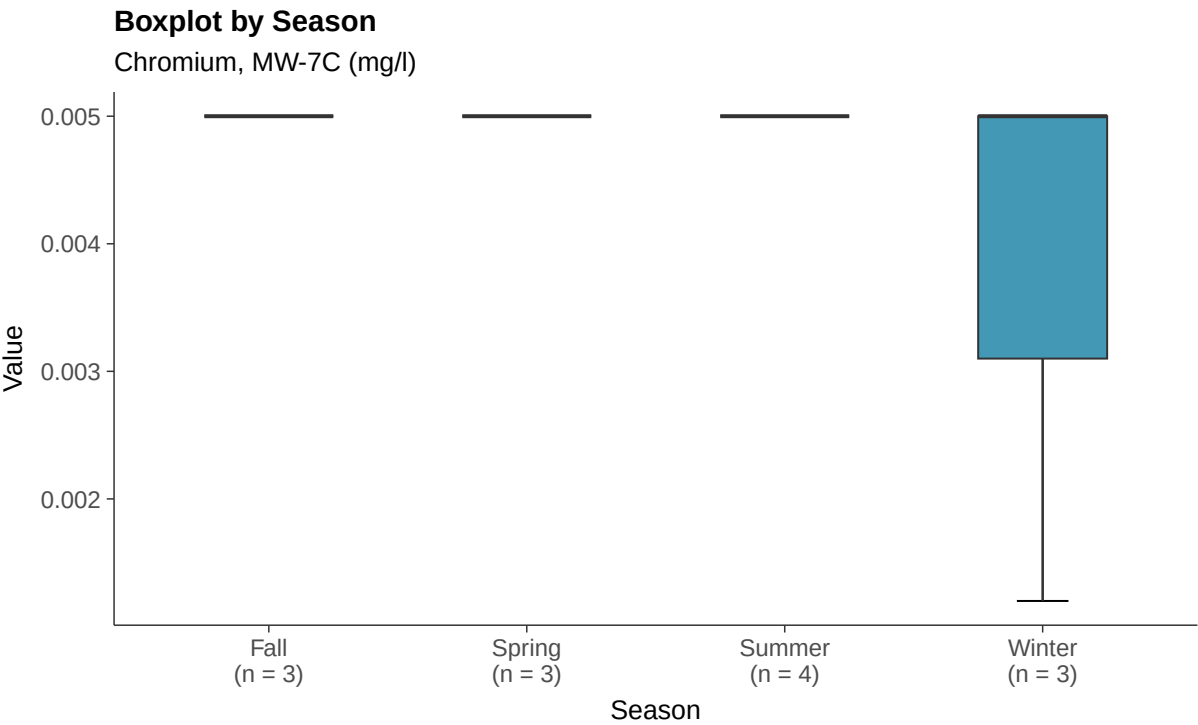
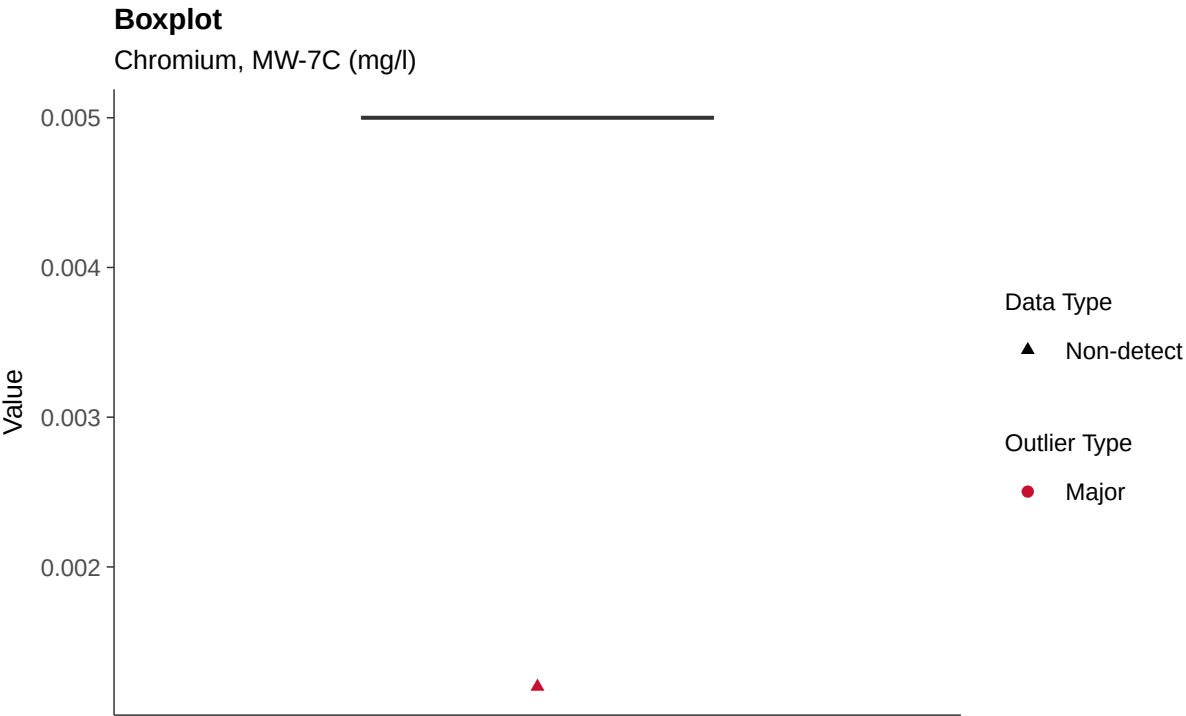




Appendix IV: Chromium, MW-7C

ID: 16_3_109

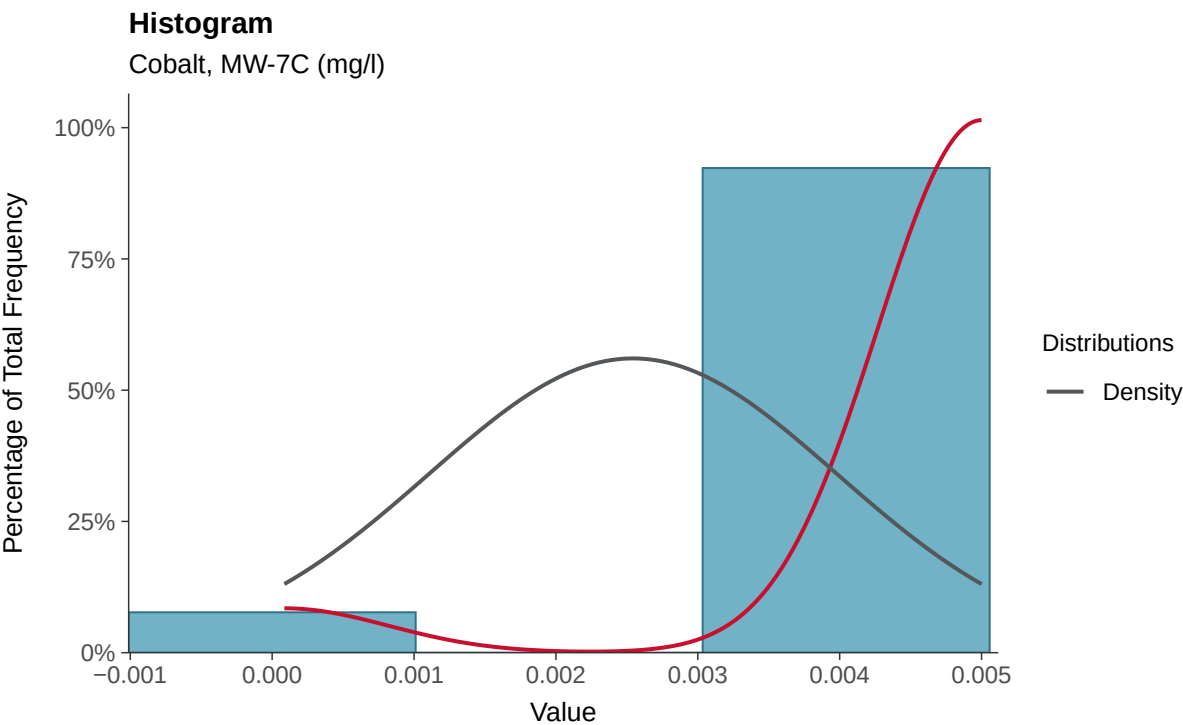
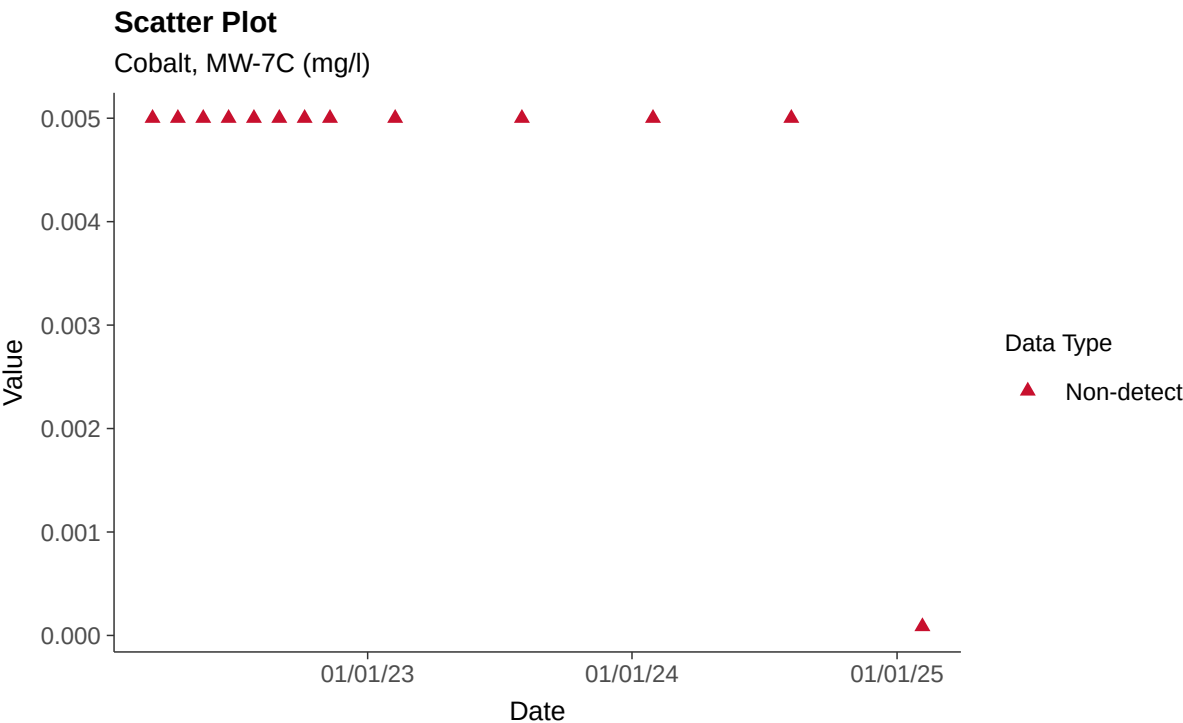


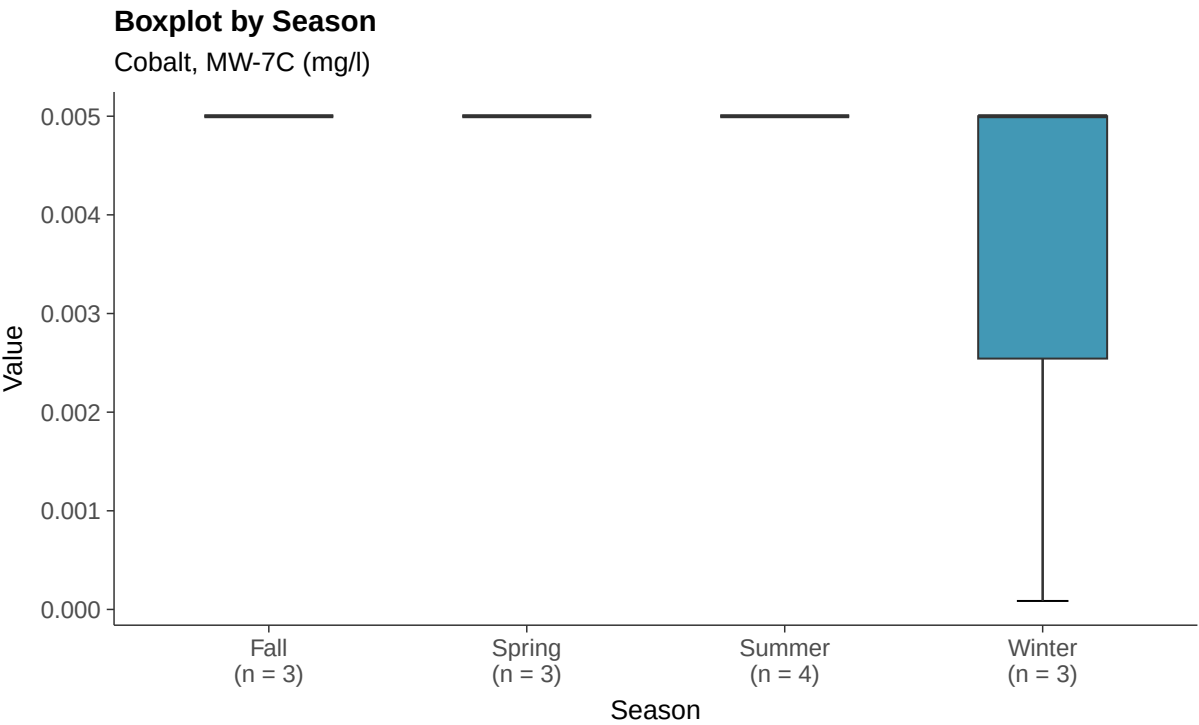
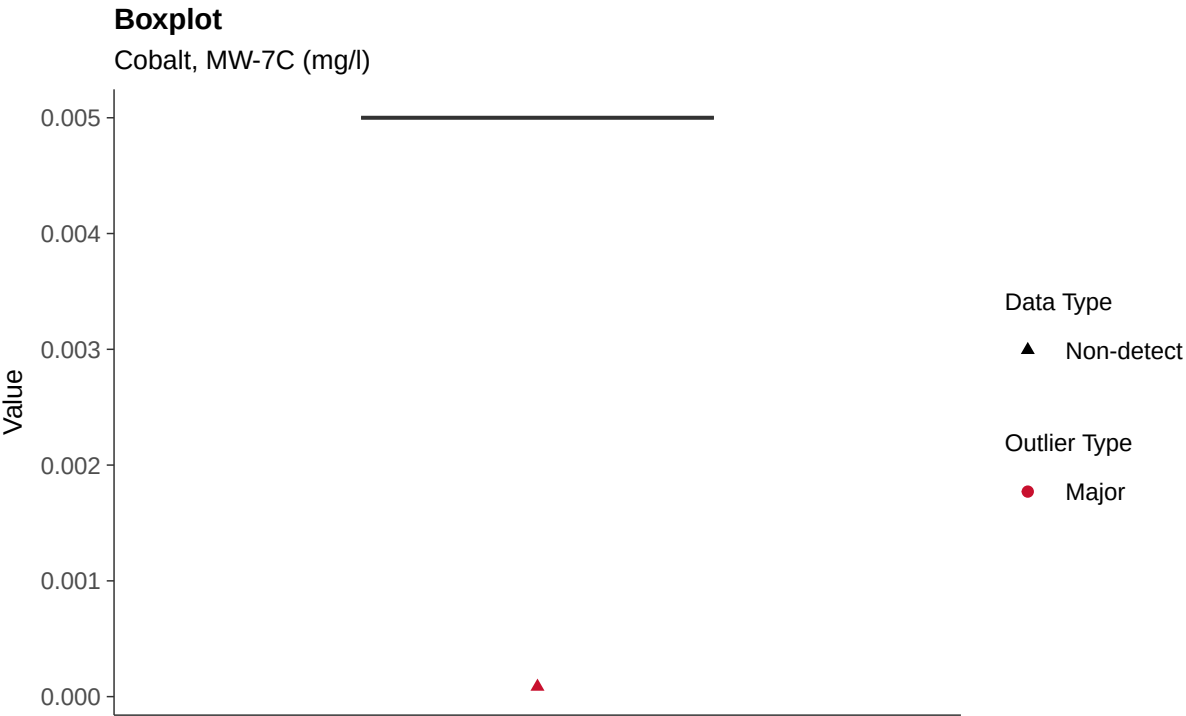




Appendix IV: Cobalt, MW-7C

ID: 16_3_110

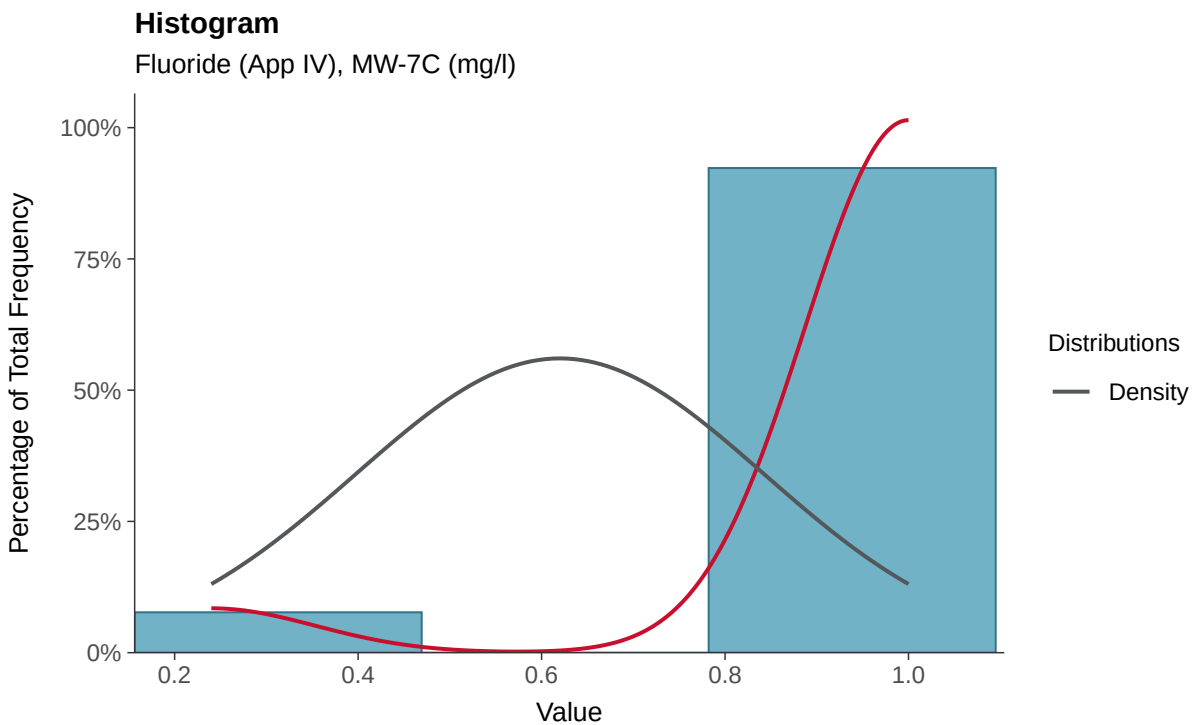
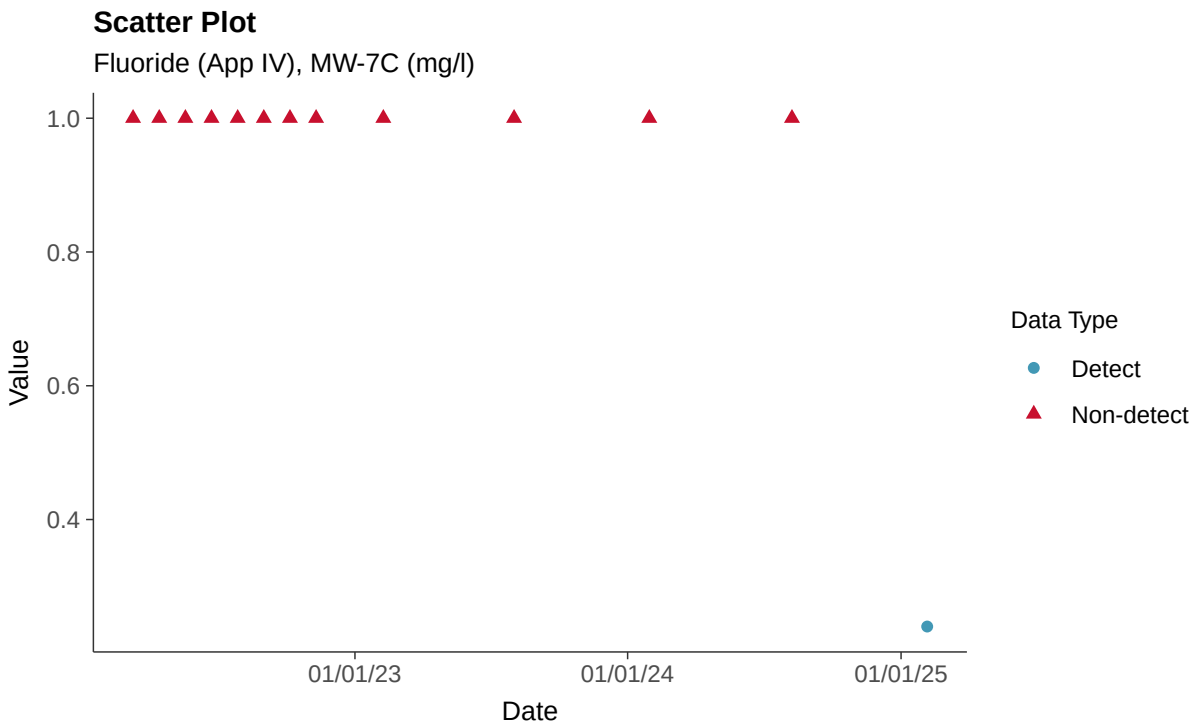


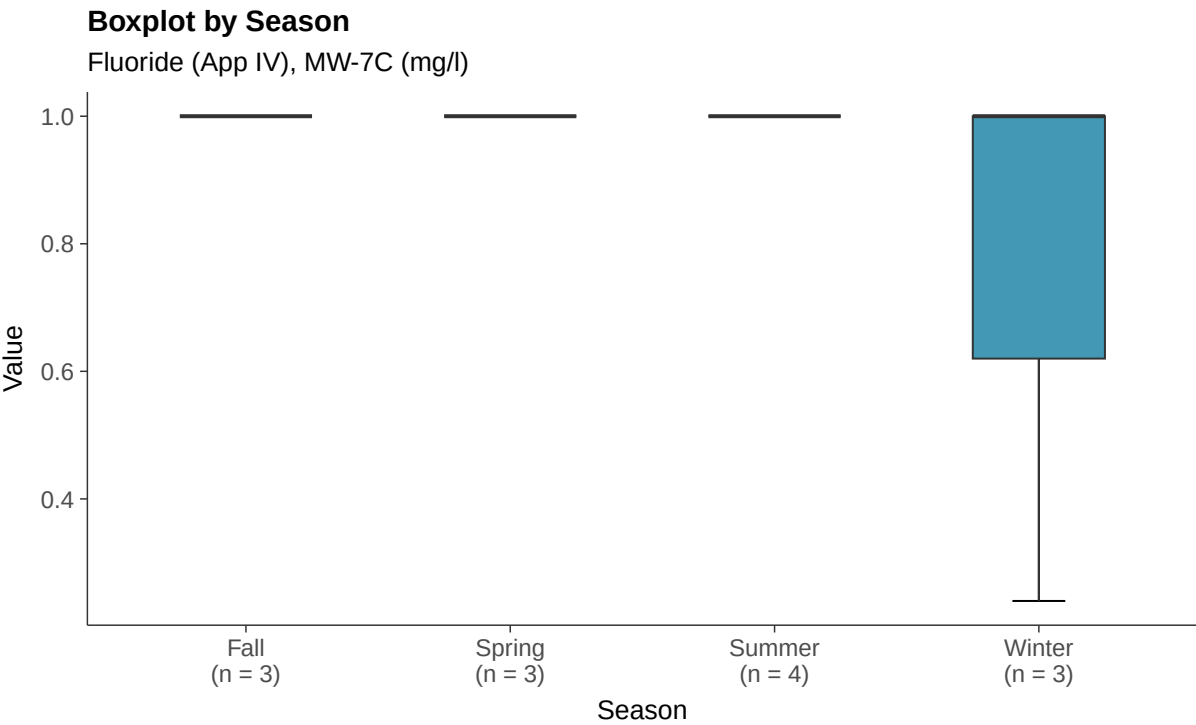
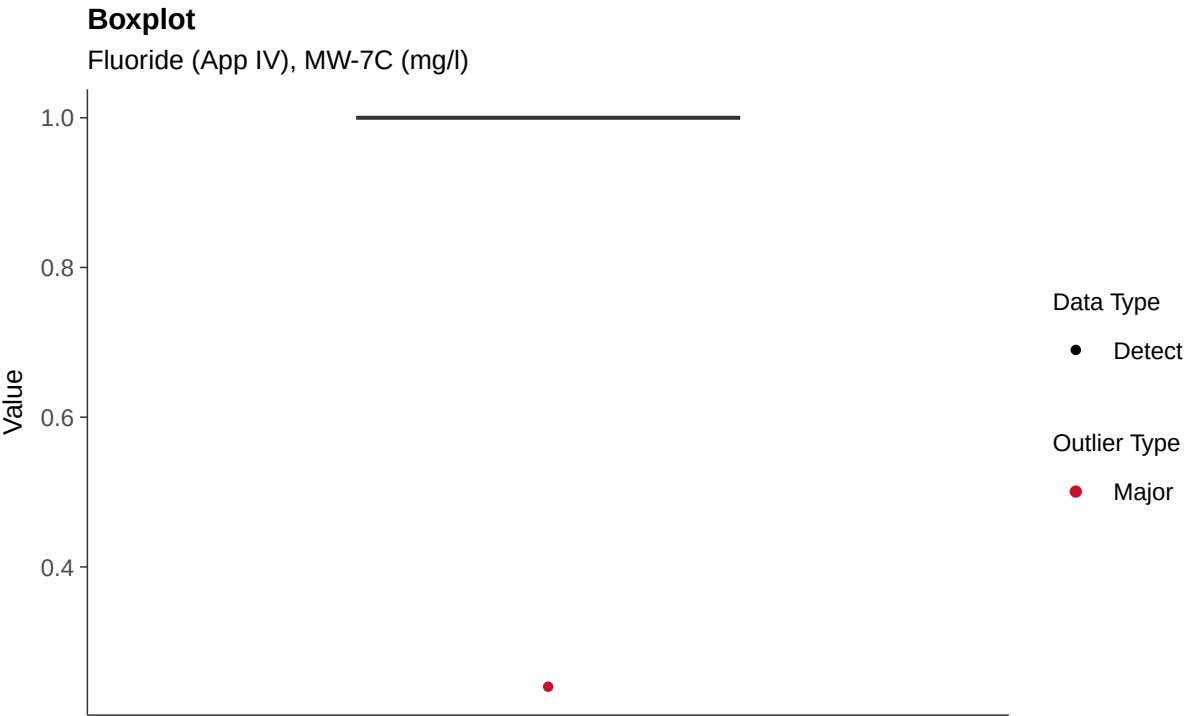




Appendix IV: Fluoride (App IV), MW-7C

ID: 16_3_113

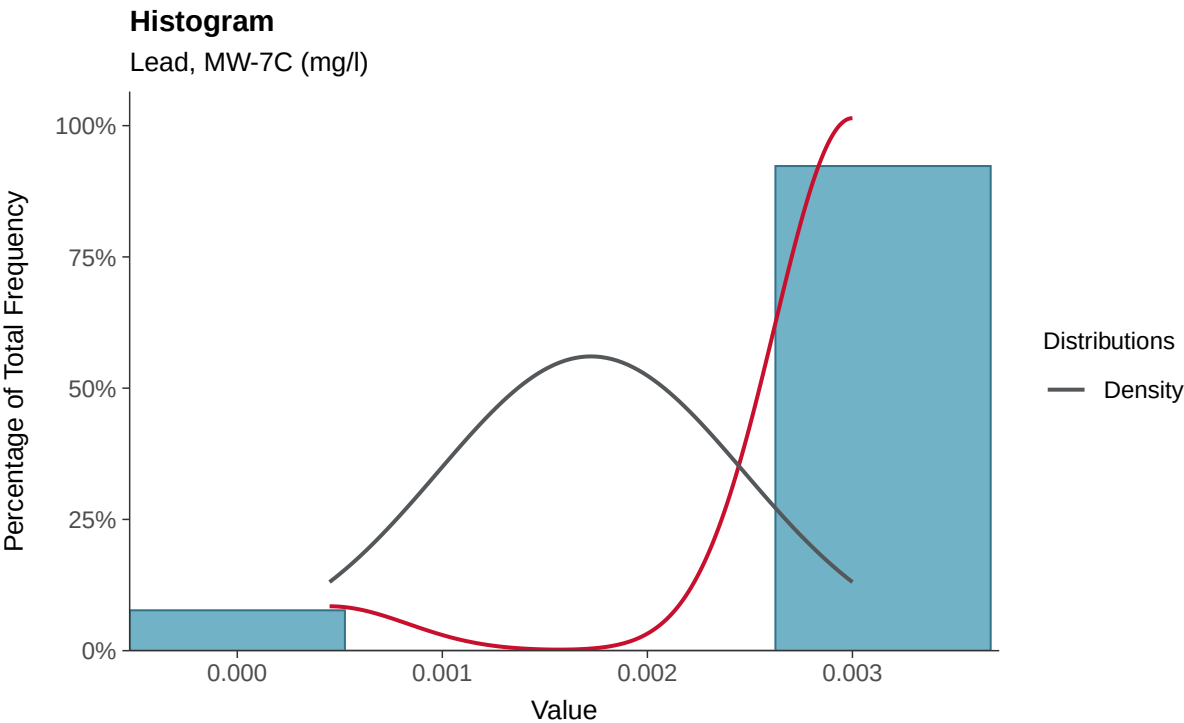
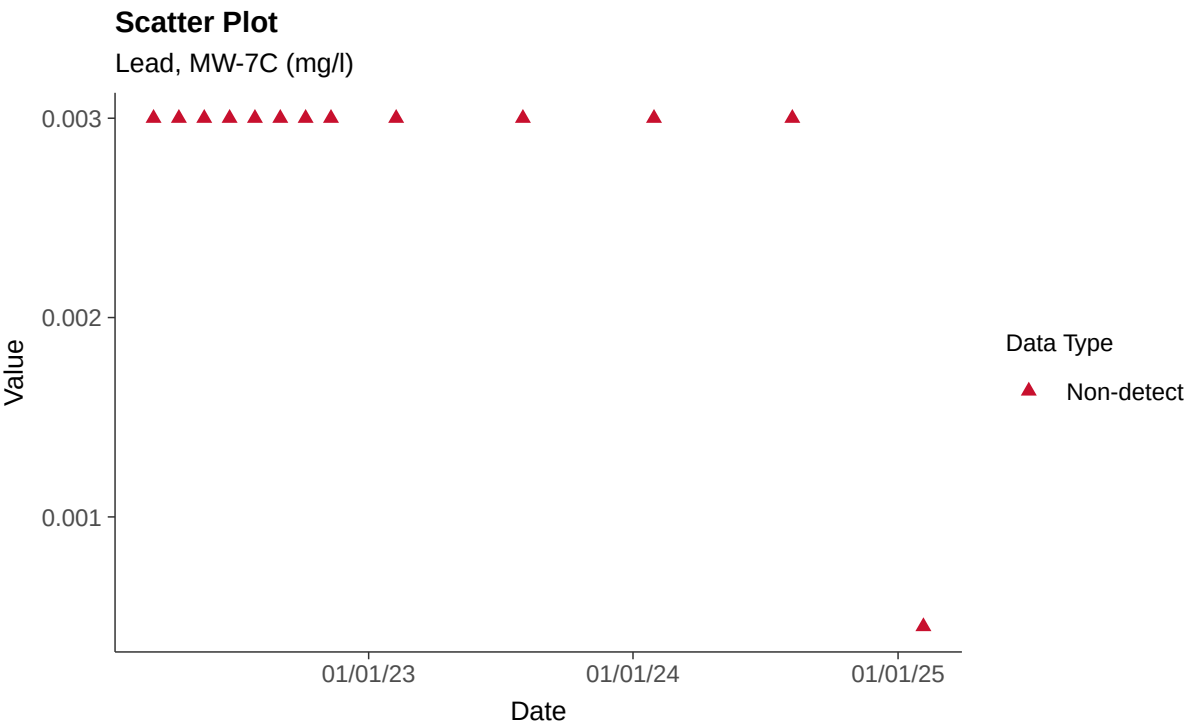


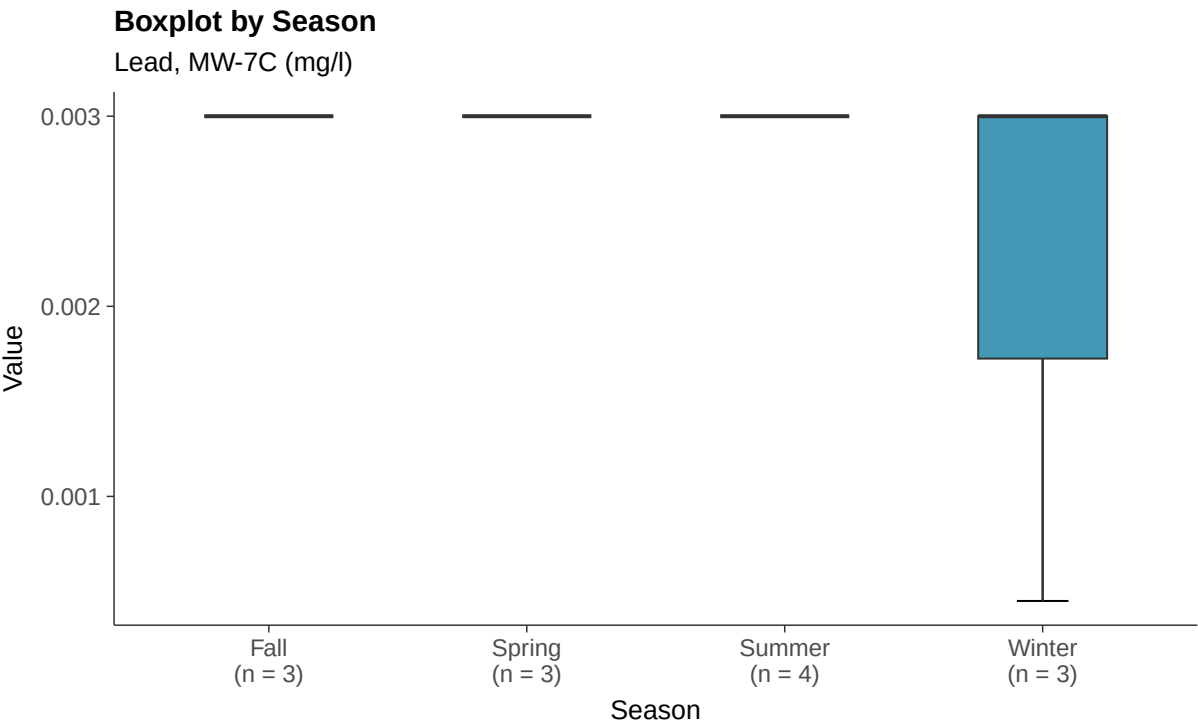
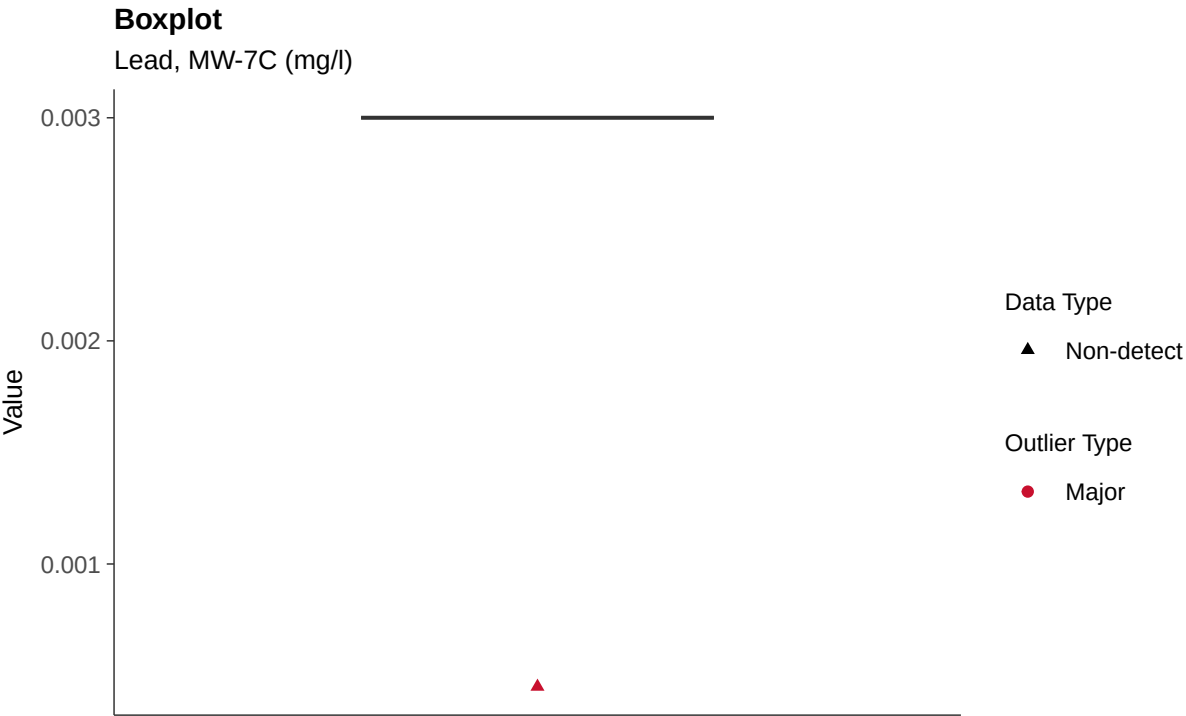




Appendix IV: Lead, MW-7C

ID: 16_3_115

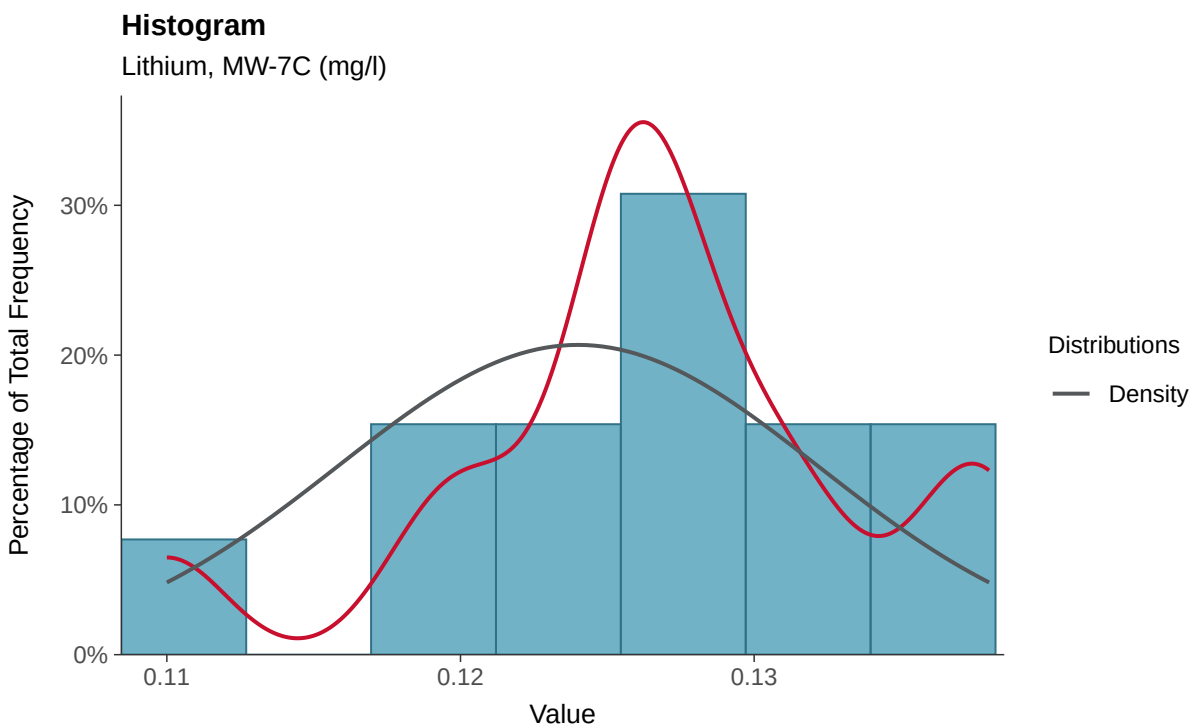
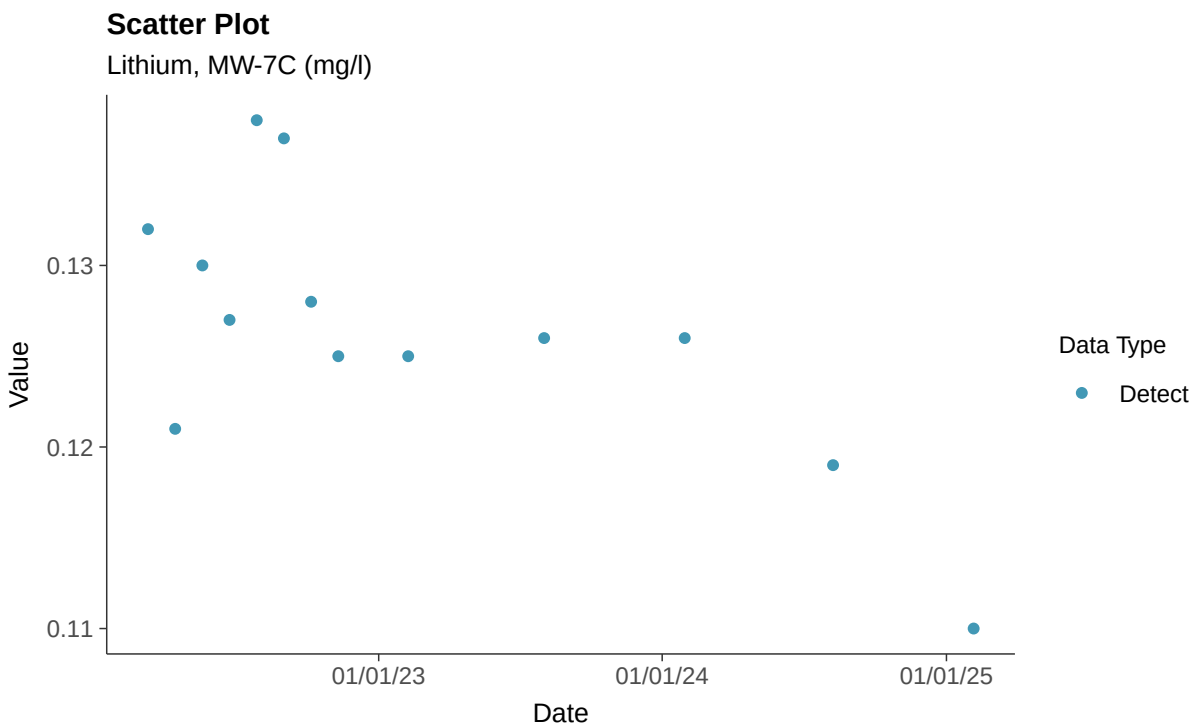


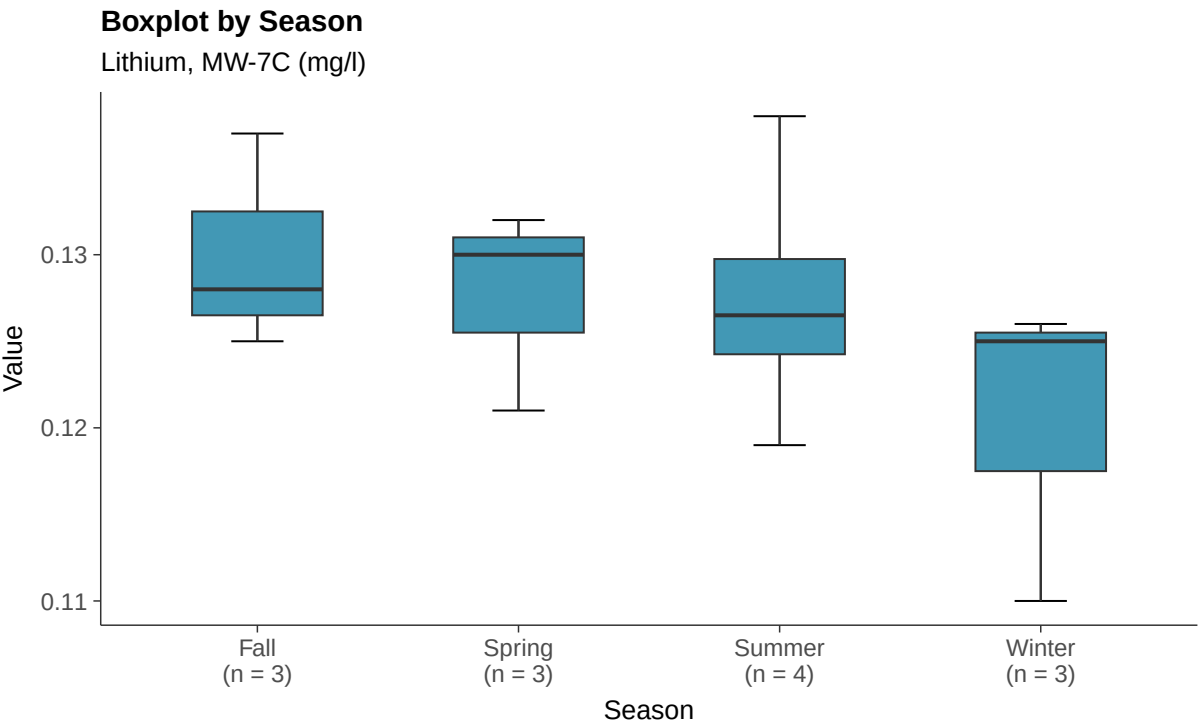
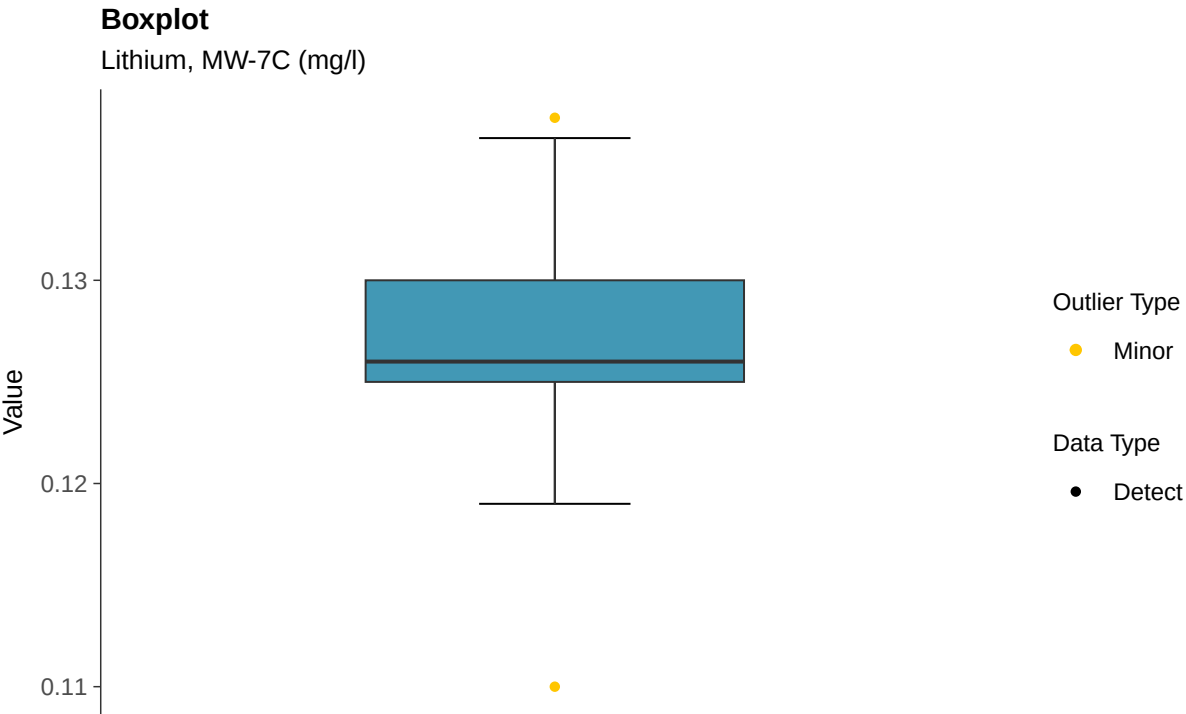


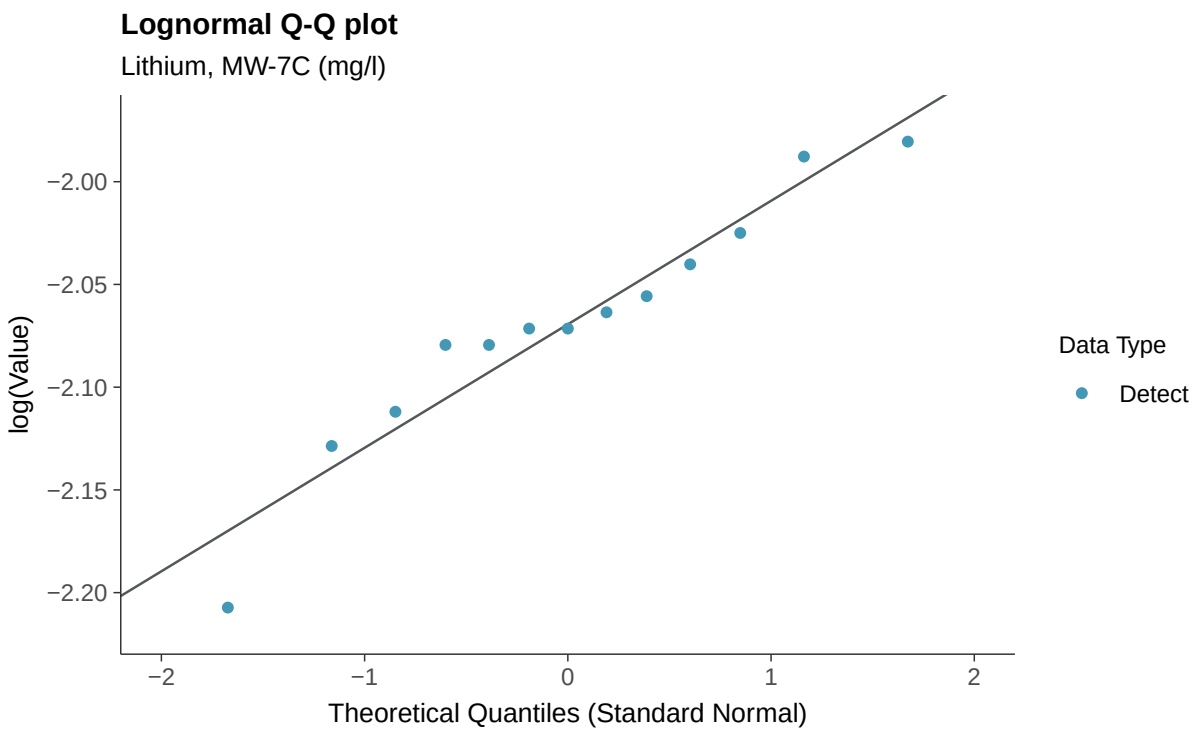
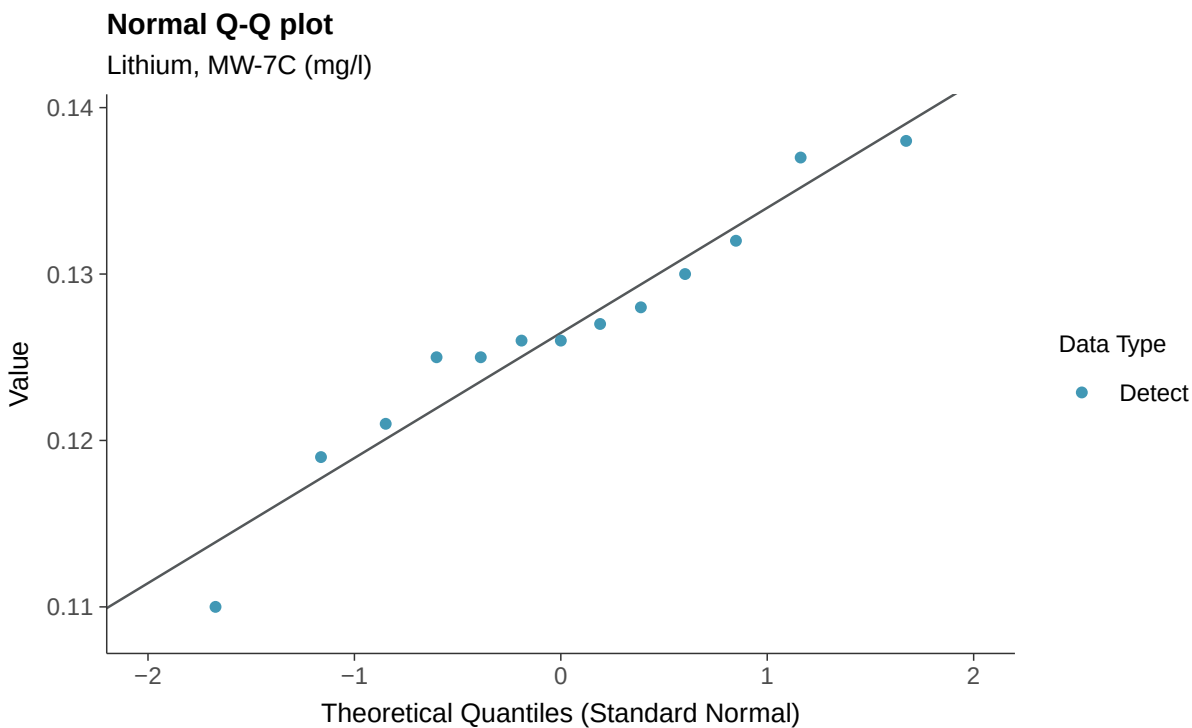


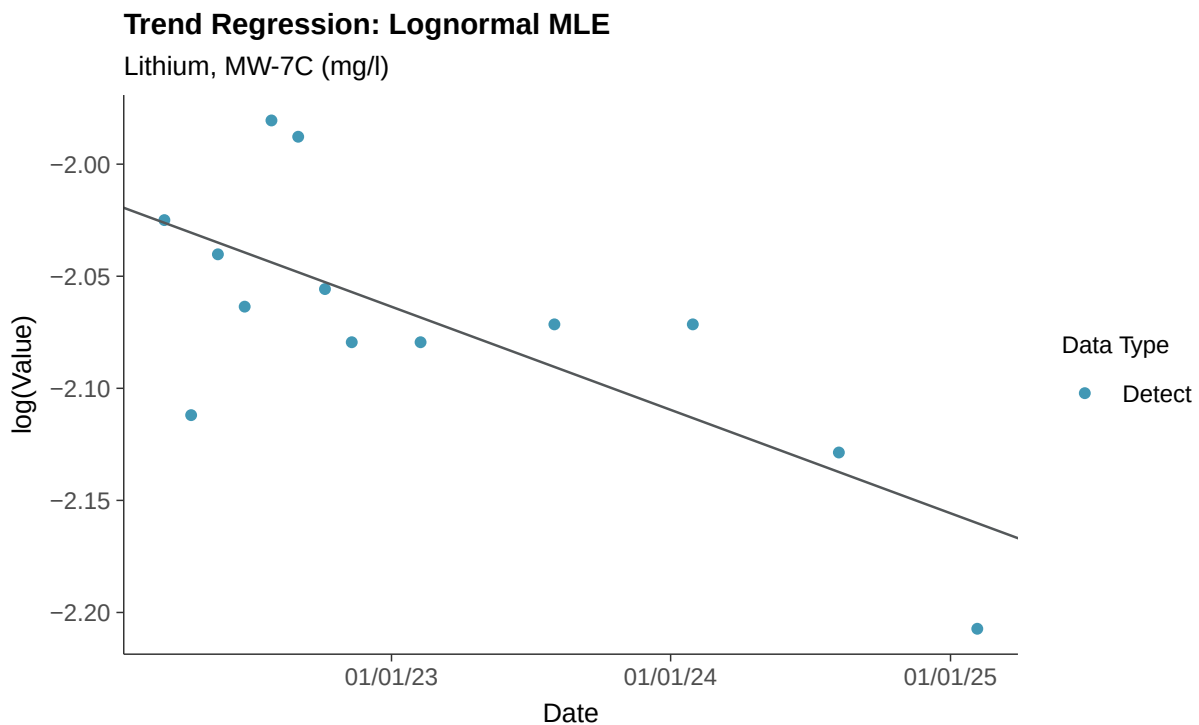
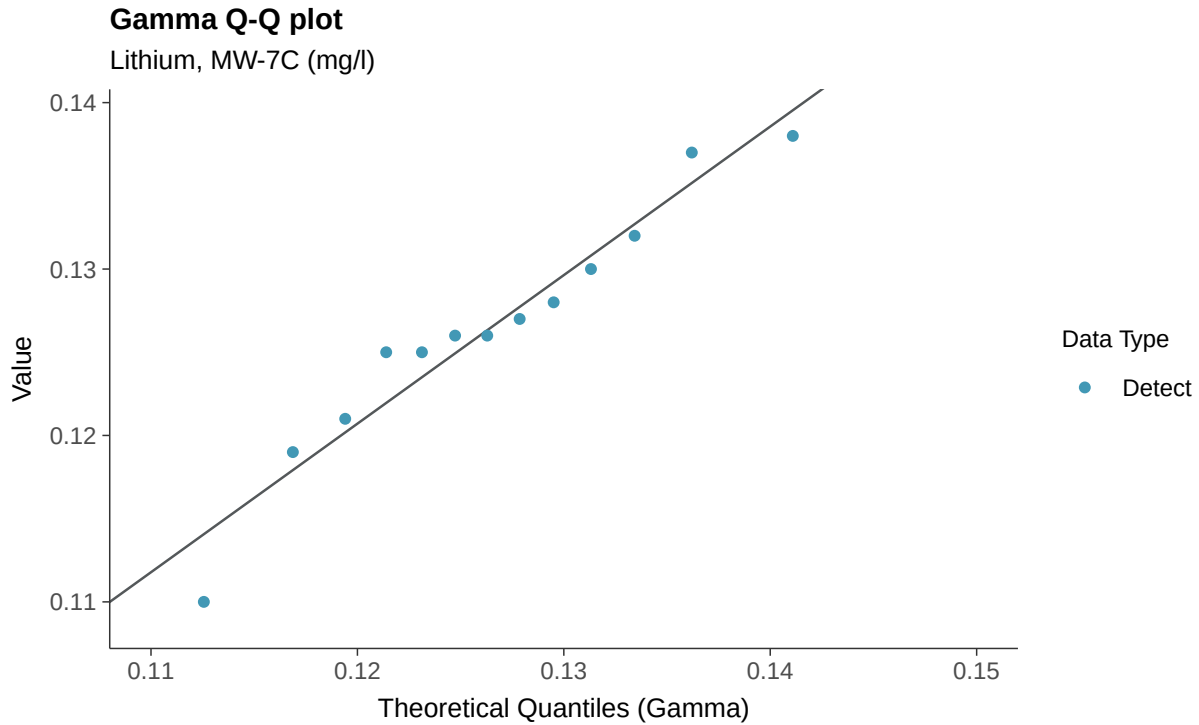
Appendix IV: Lithium, MW-7C

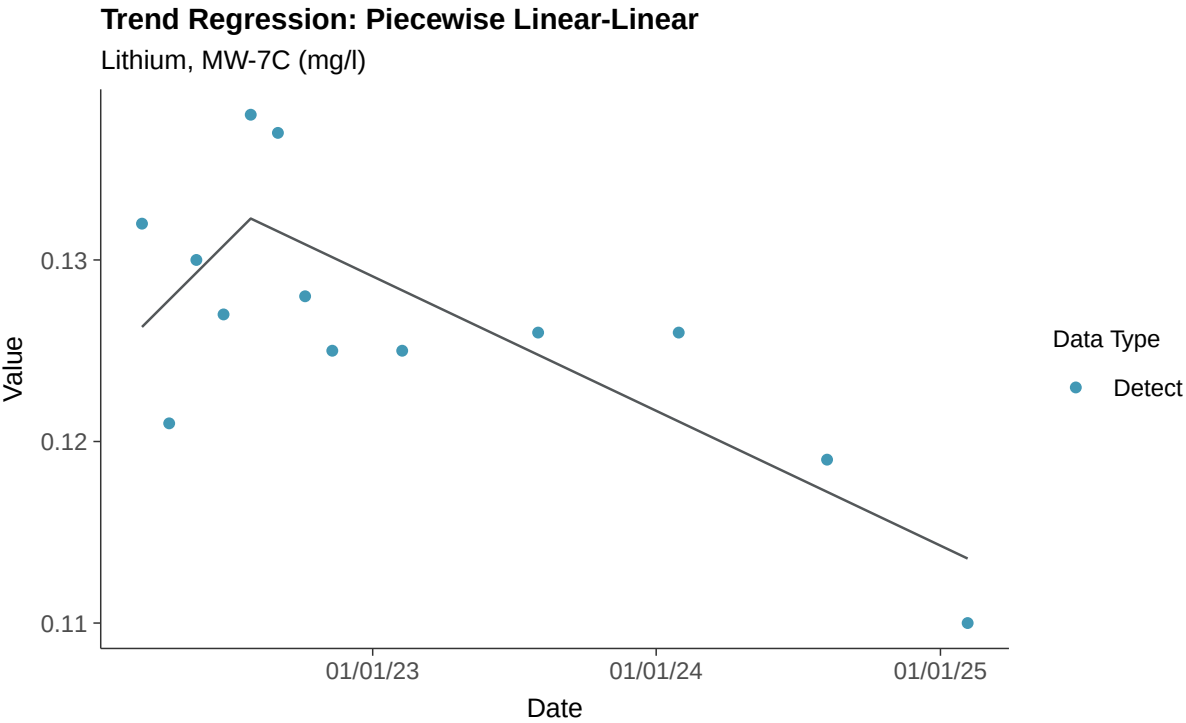
ID: 16_3_116







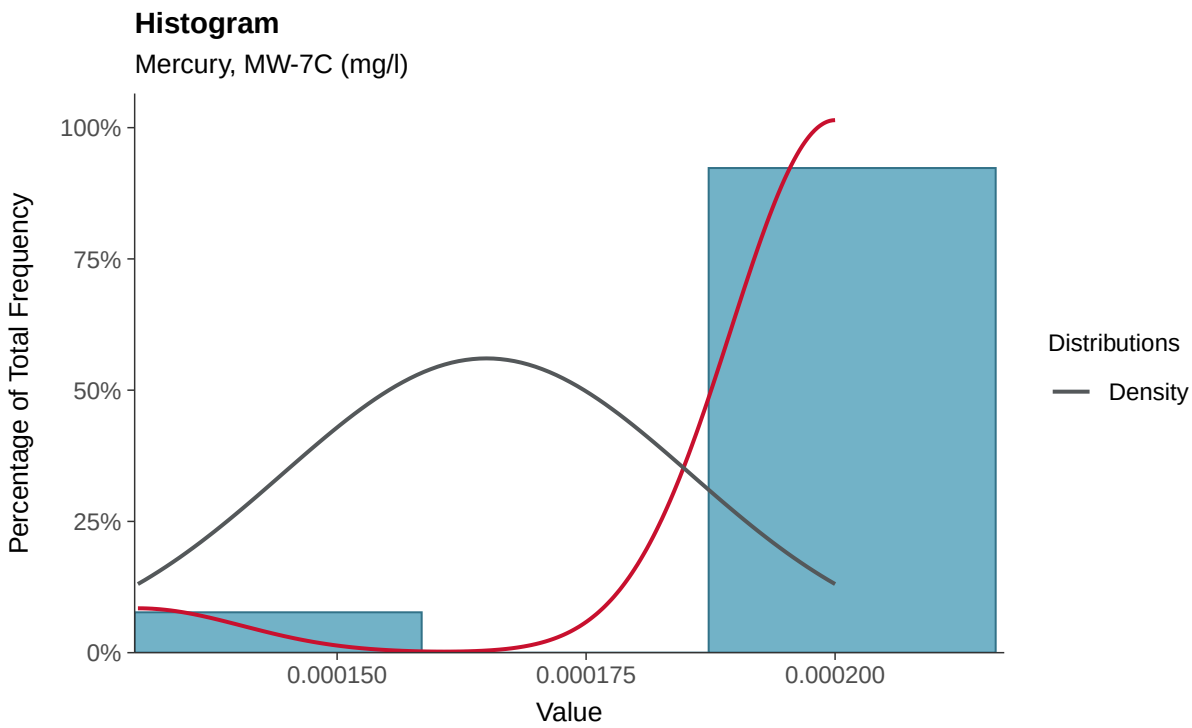
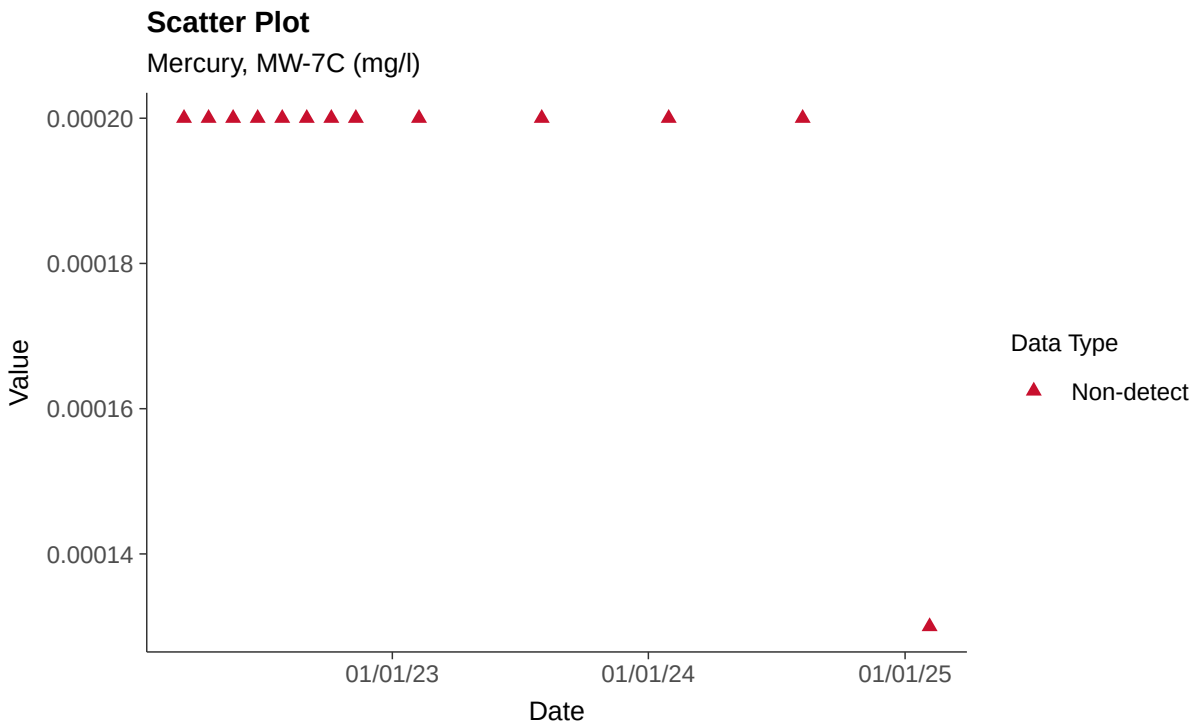


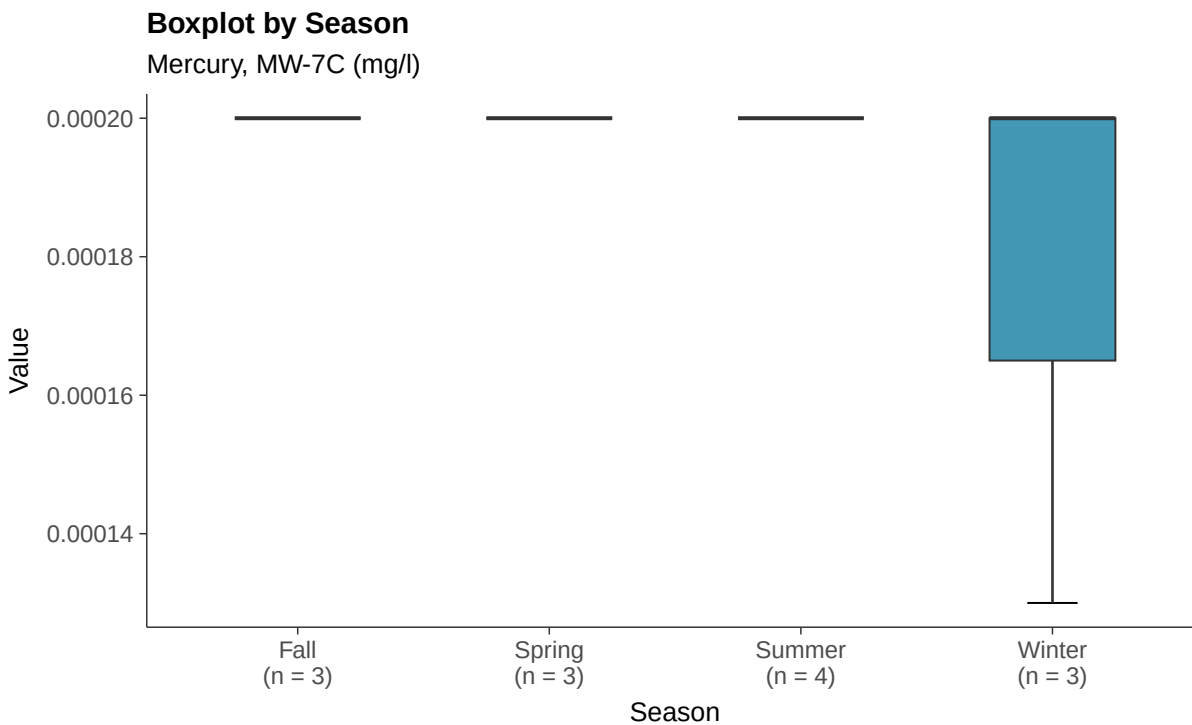
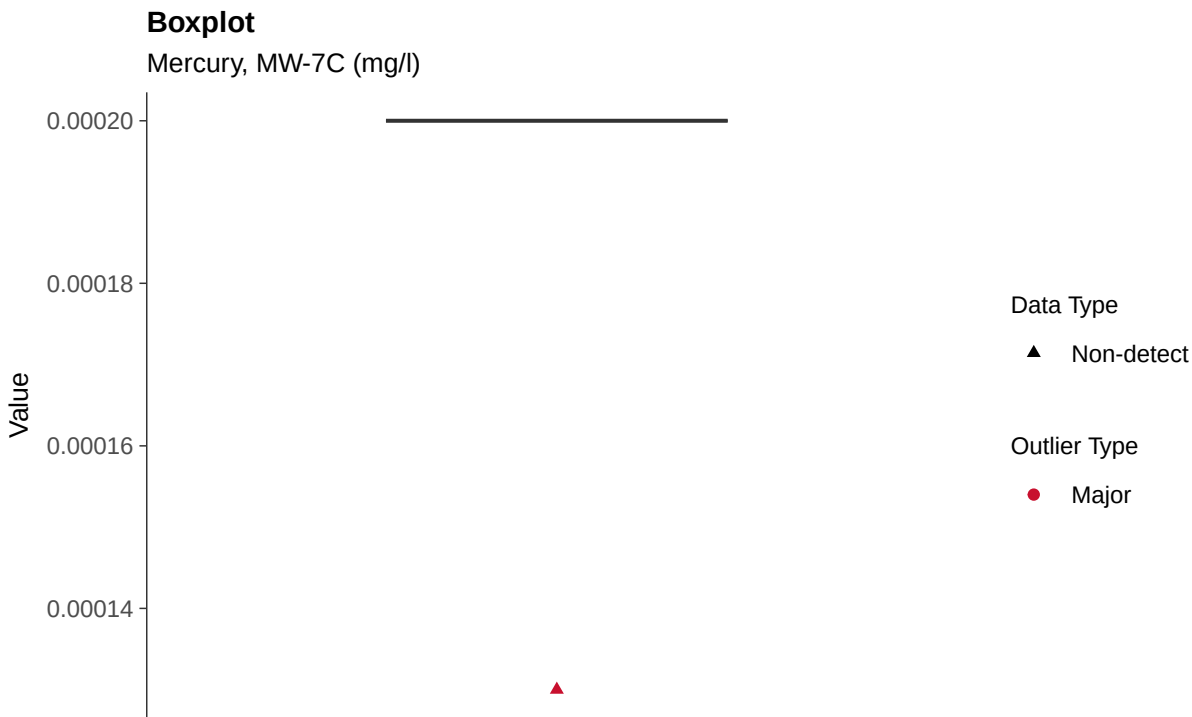




Appendix IV: Mercury, MW-7C

ID: 16_3_117

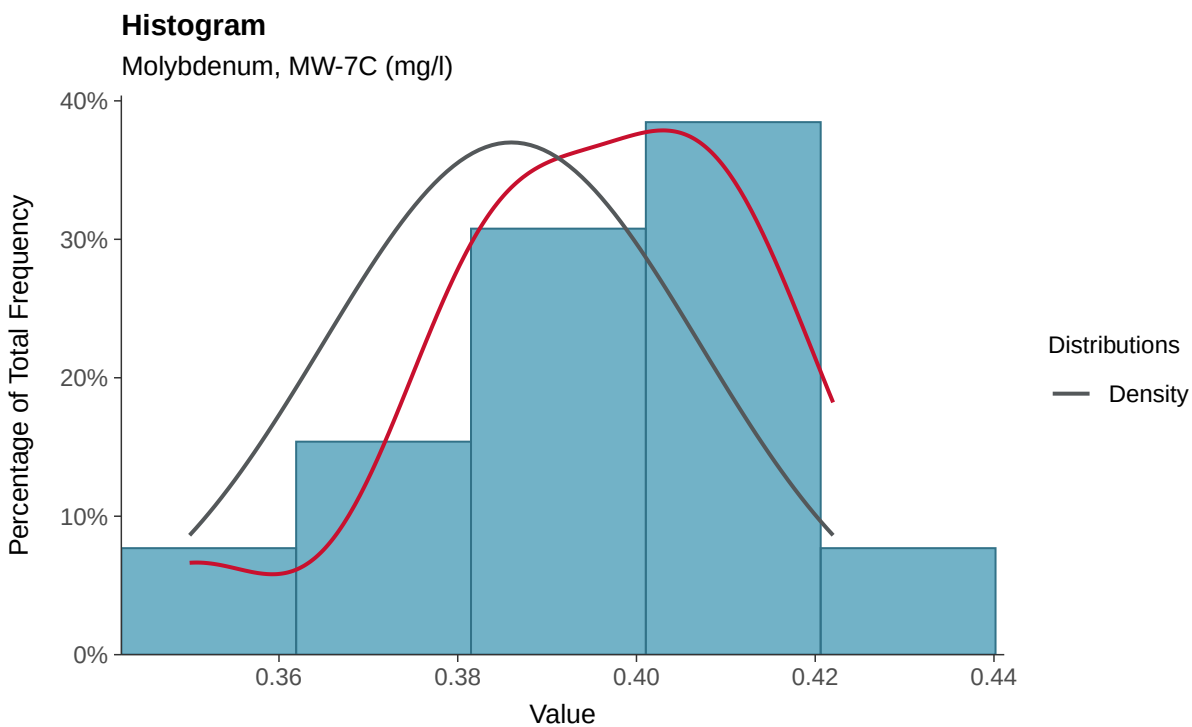
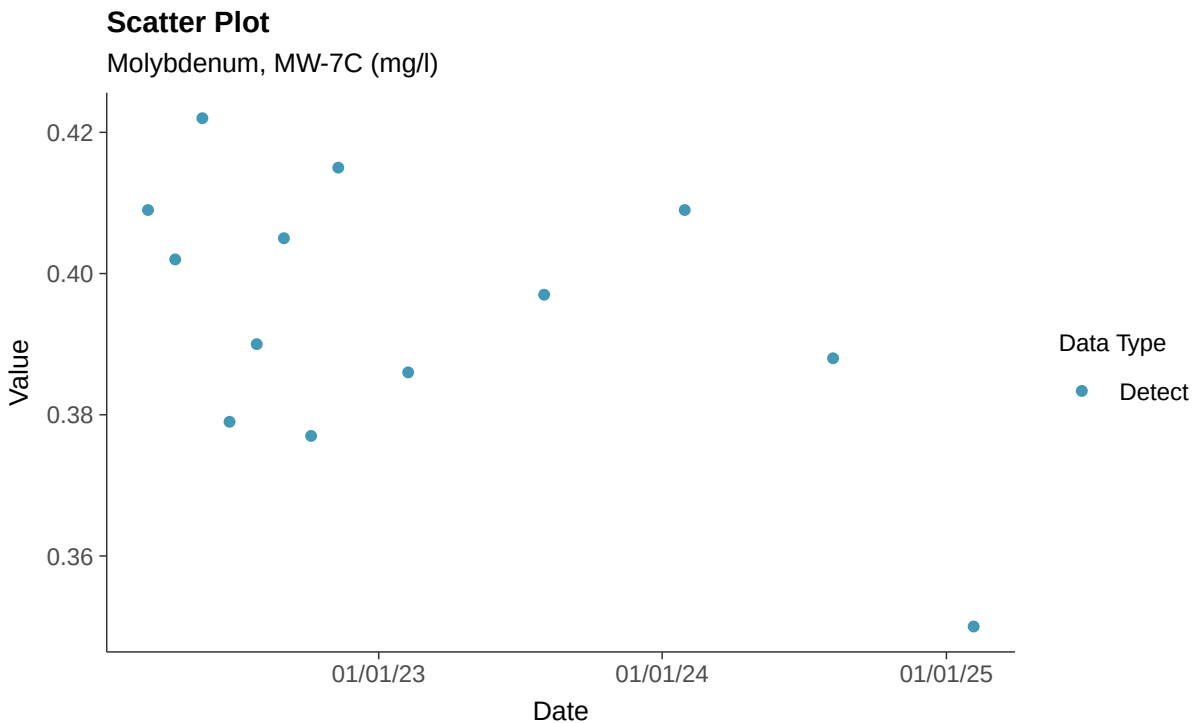


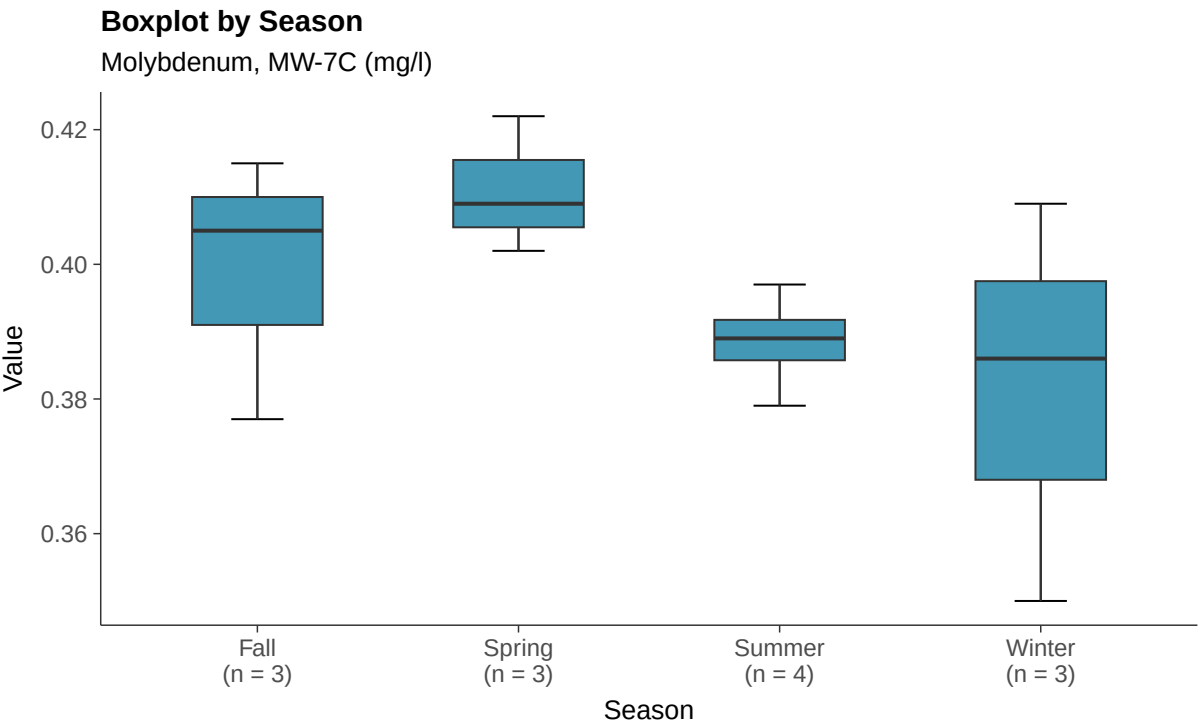
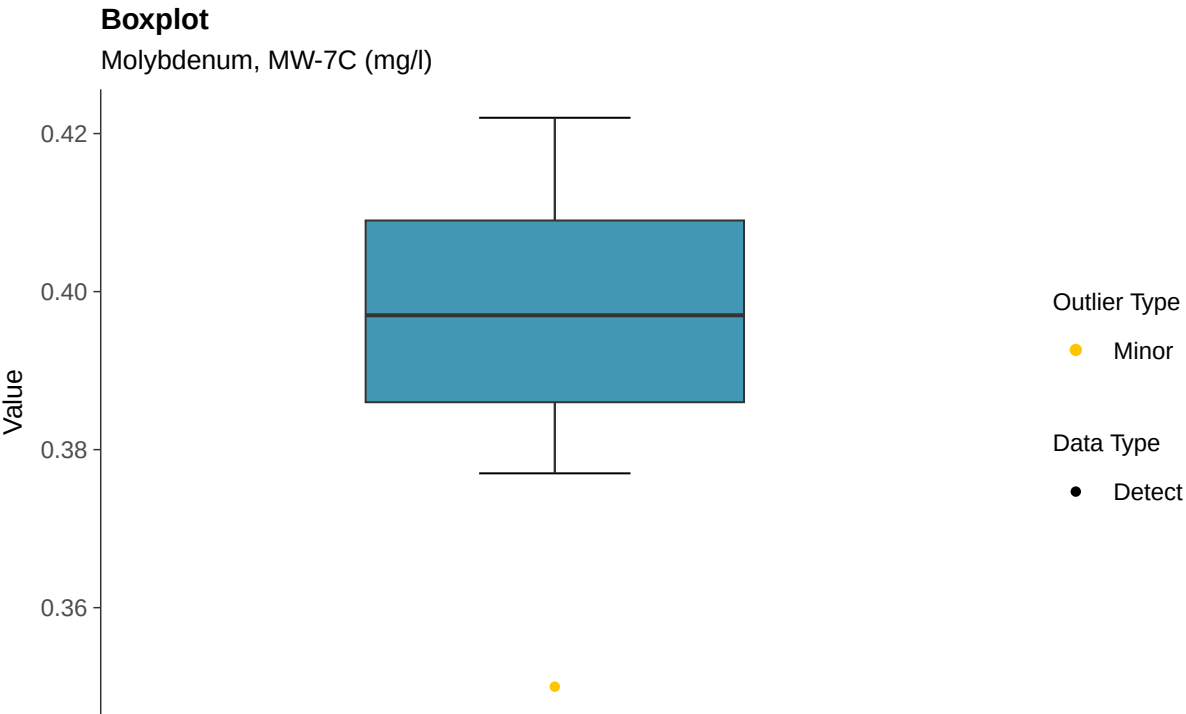


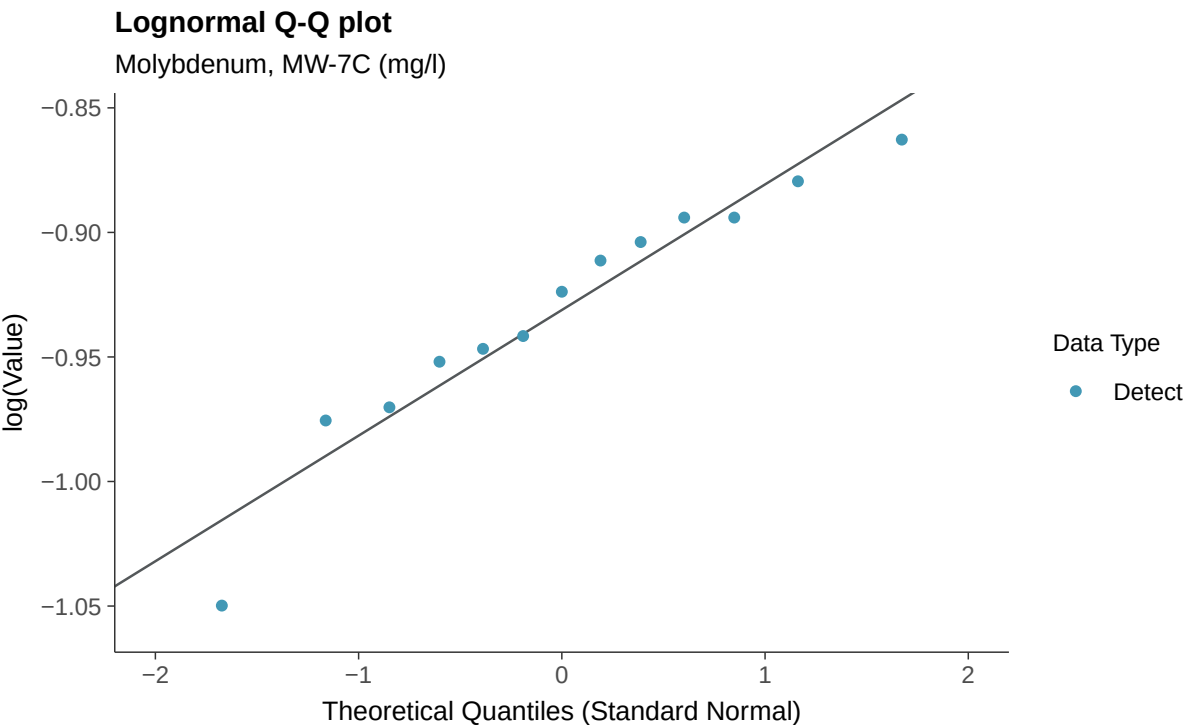
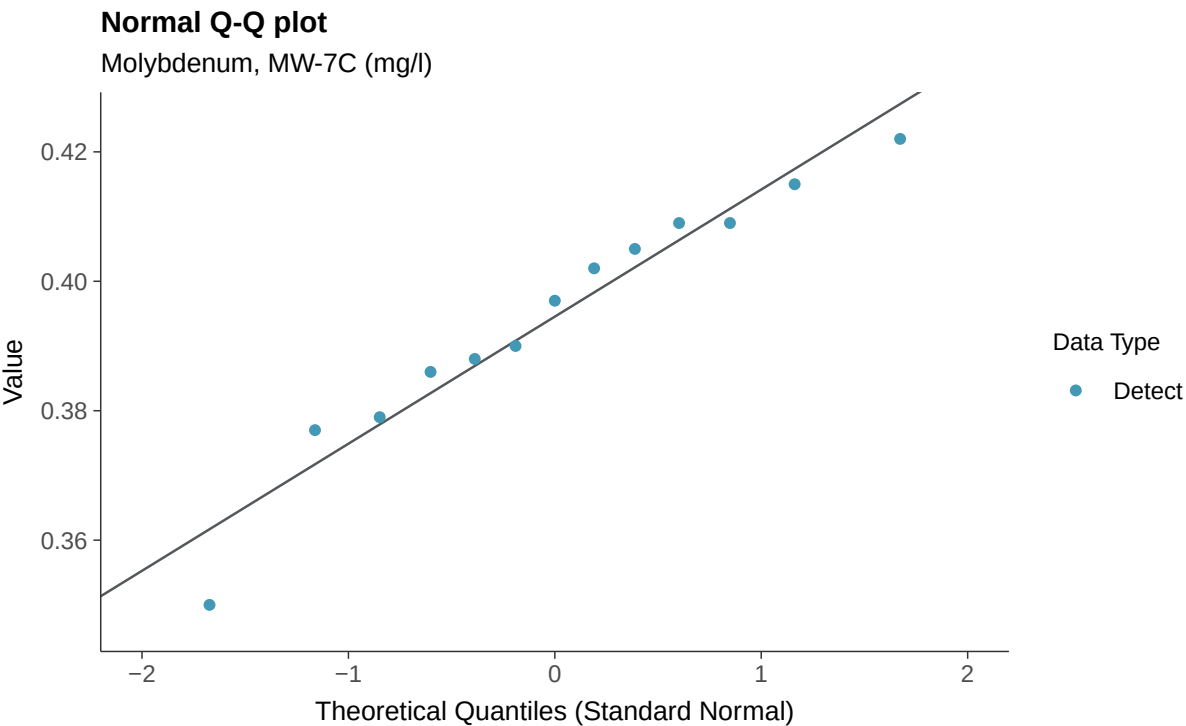


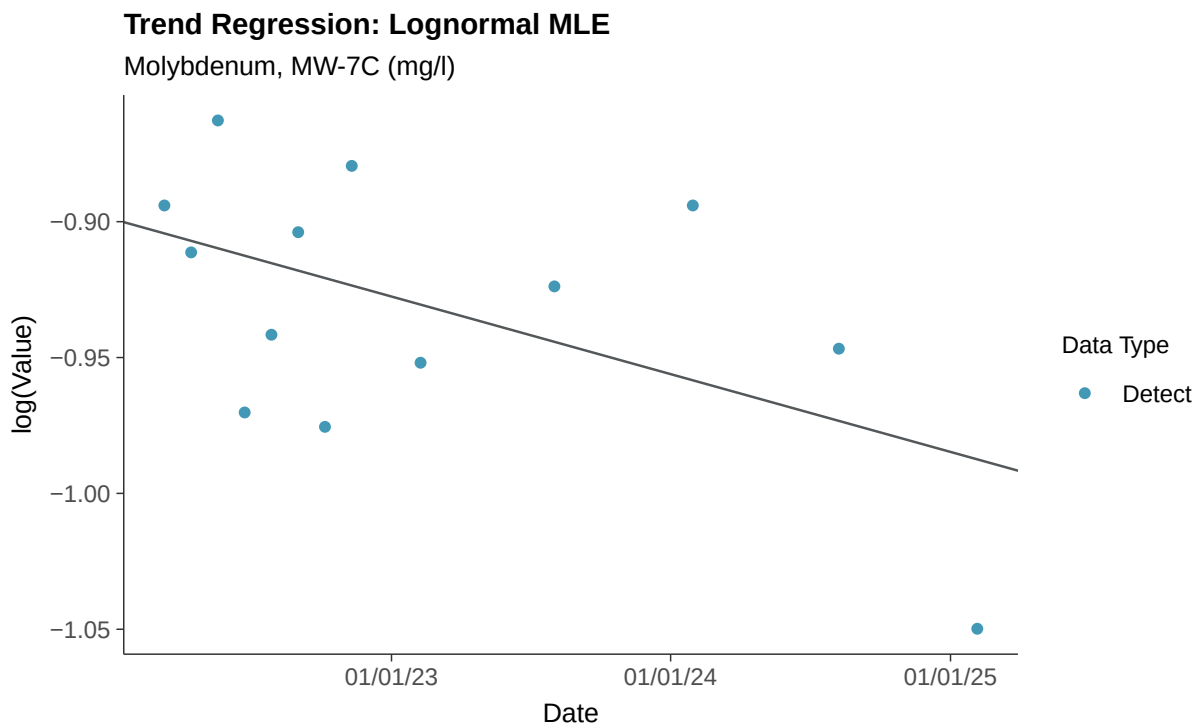
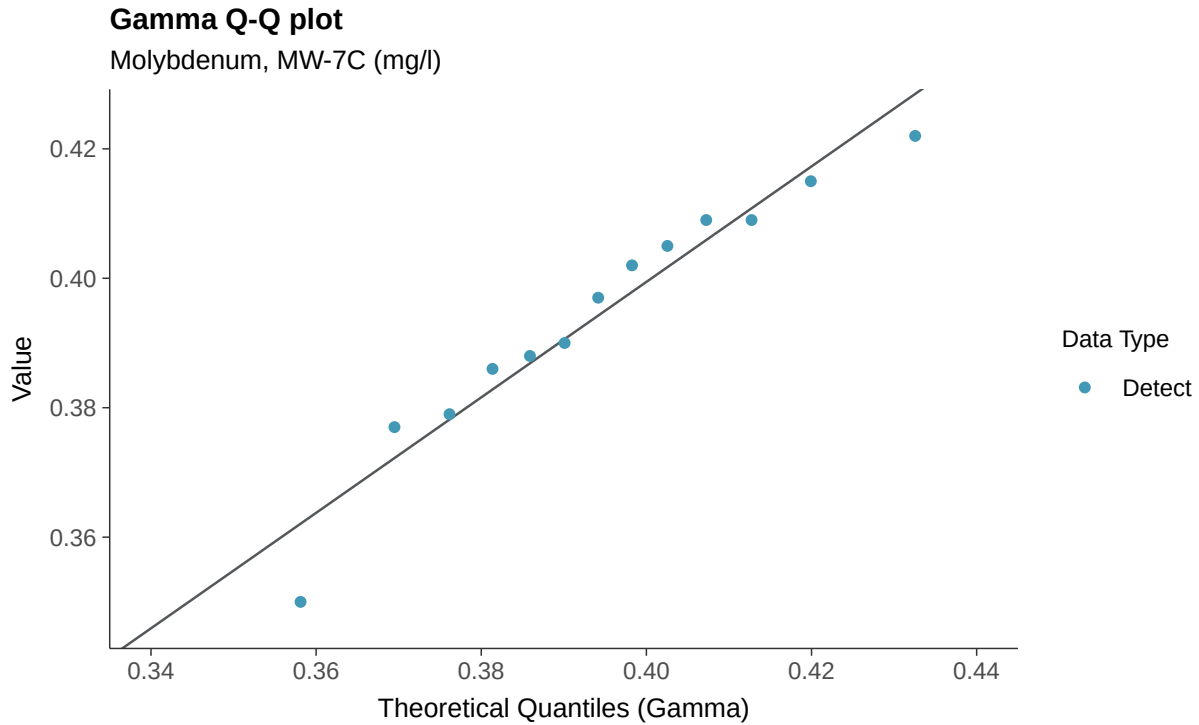
Appendix IV: Molybdenum, MW-7C

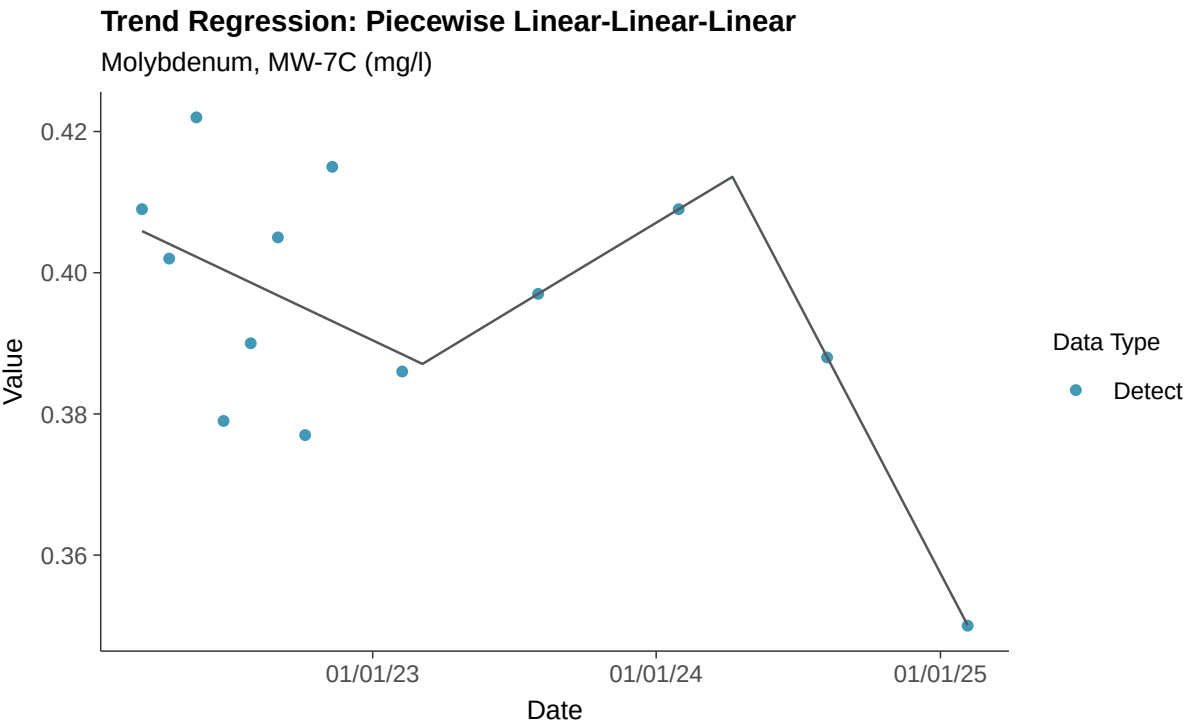
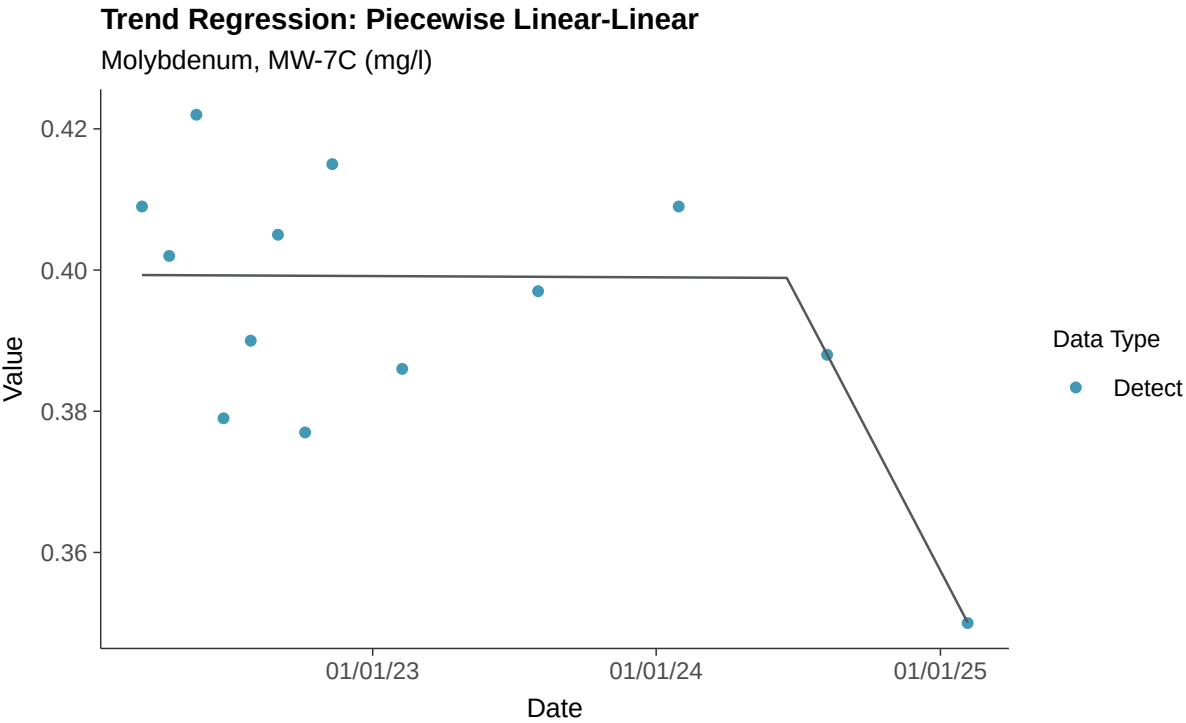
ID: 16_3_118







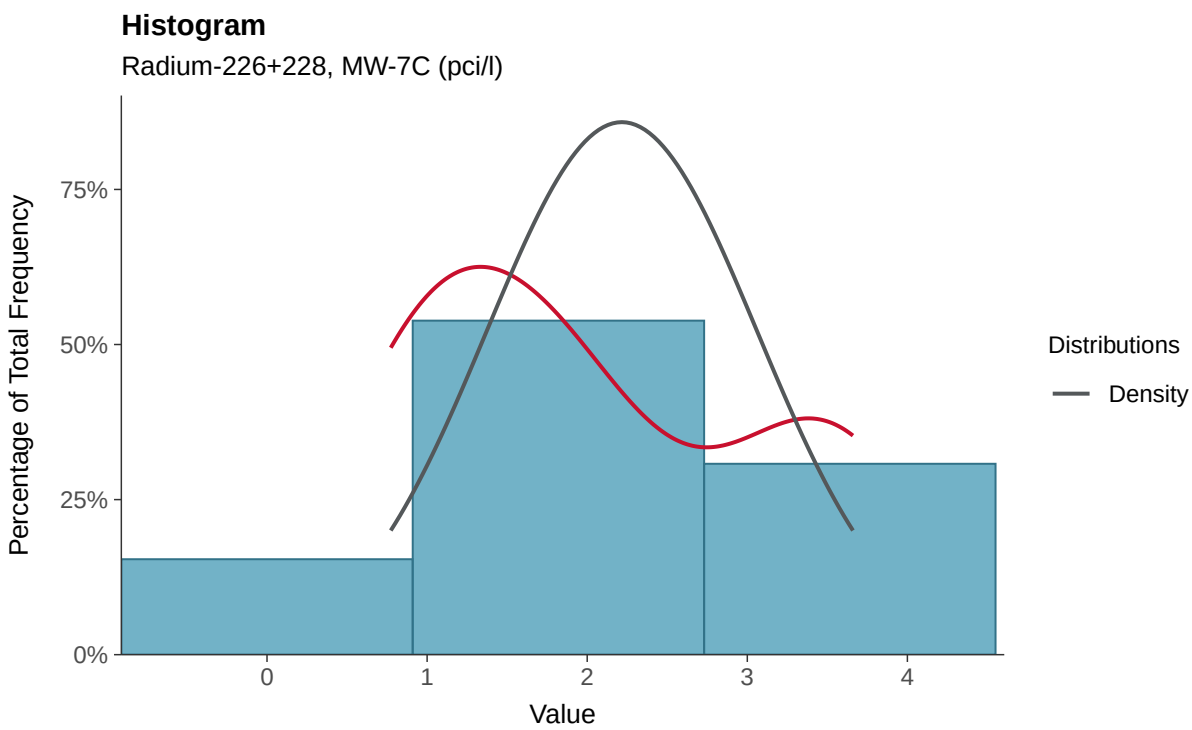
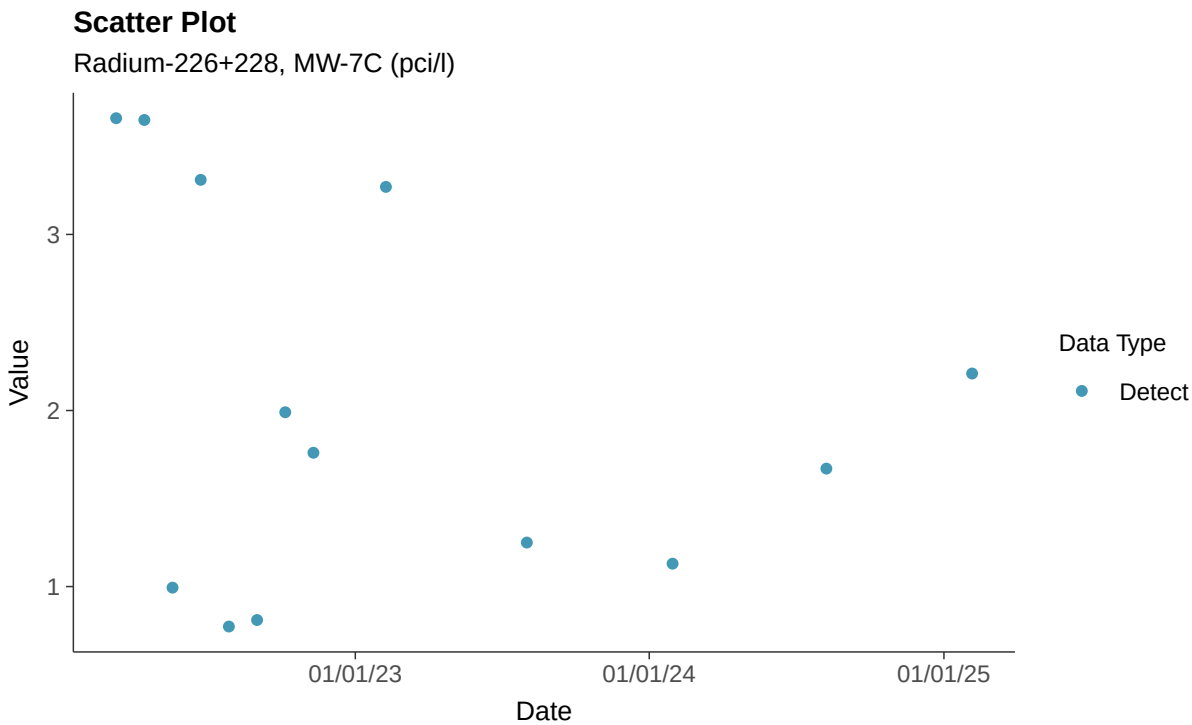






Appendix IV: Radium-226+228, MW-7C

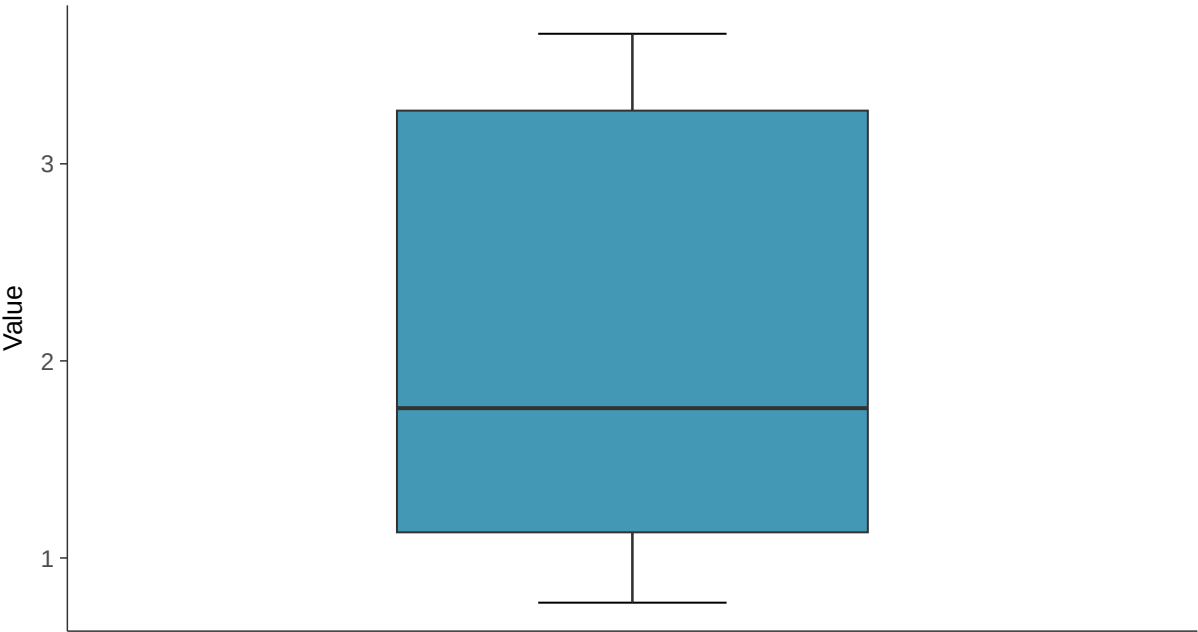
ID: 16_3_121





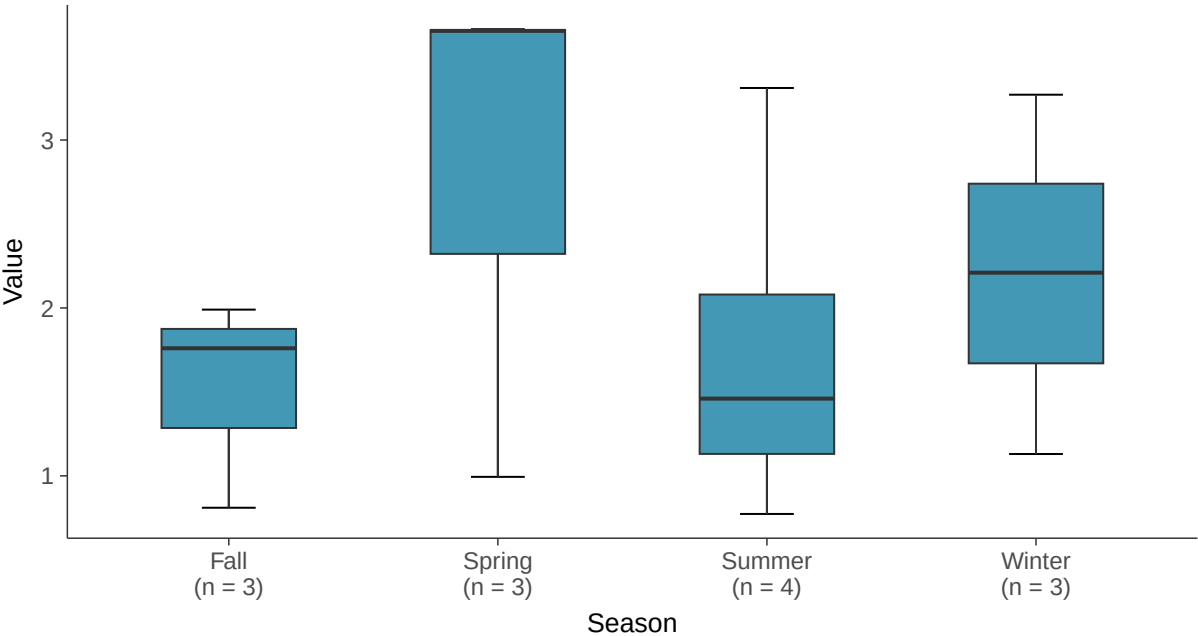
Boxplot

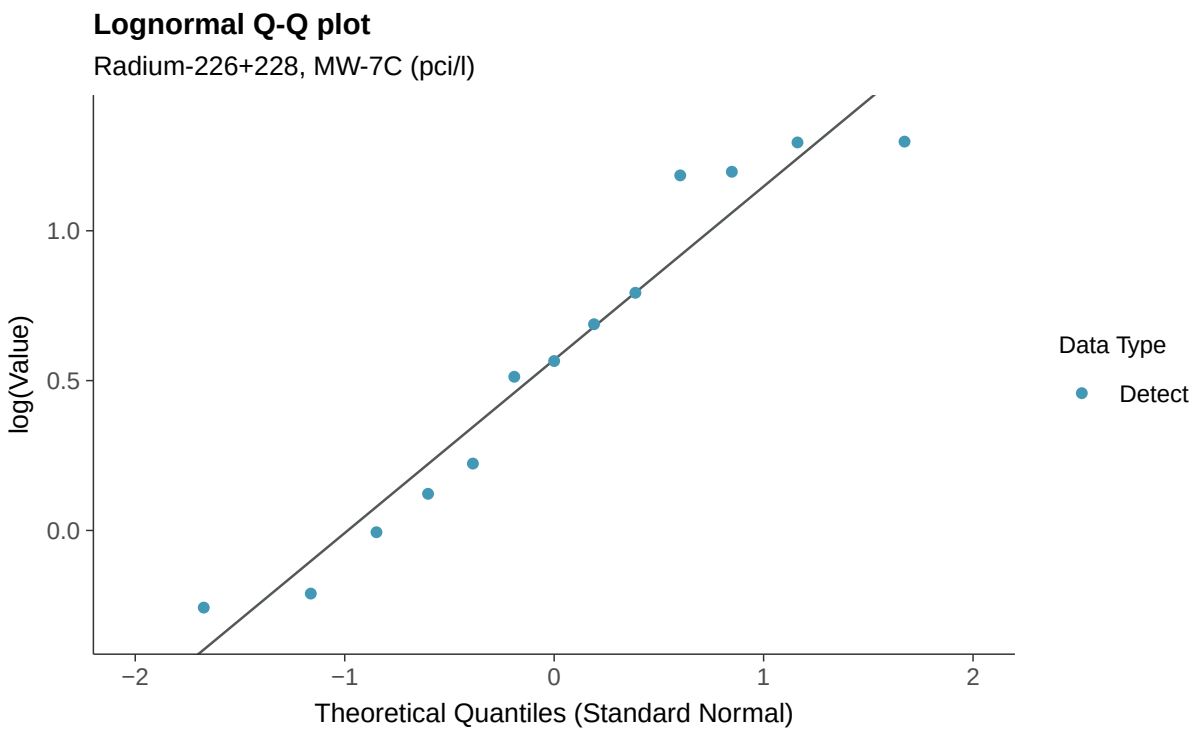
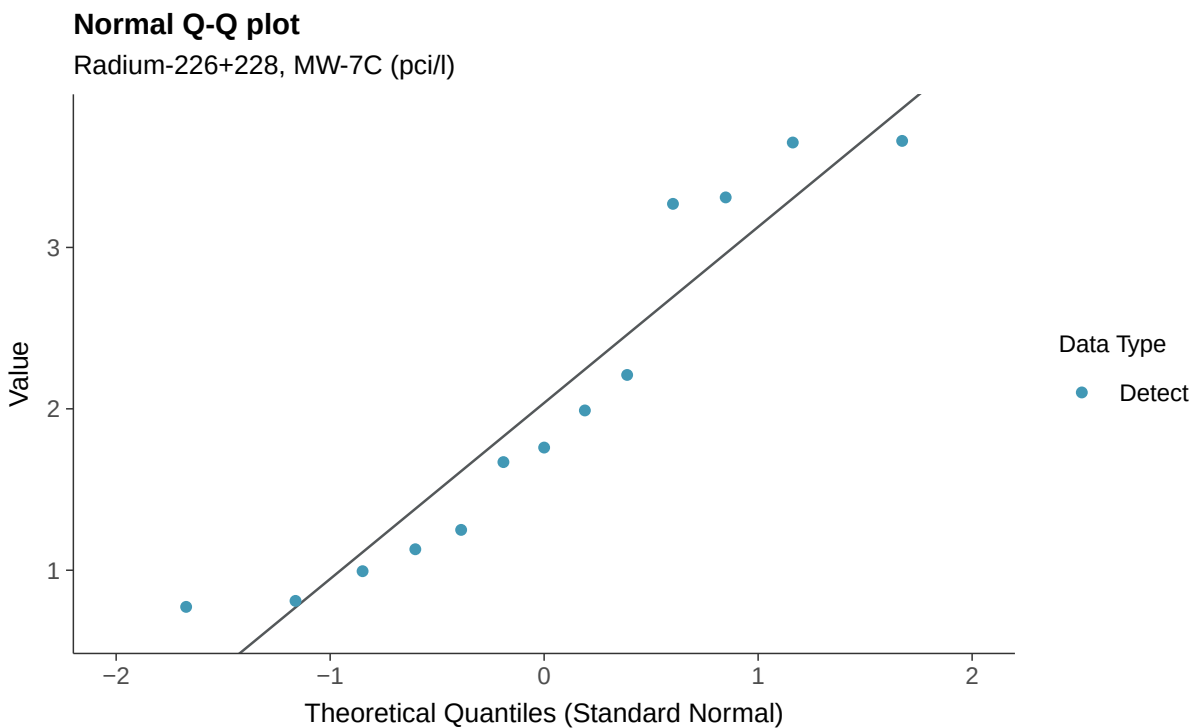
Radium-226+228, MW-7C (pci/l)



Boxplot by Season

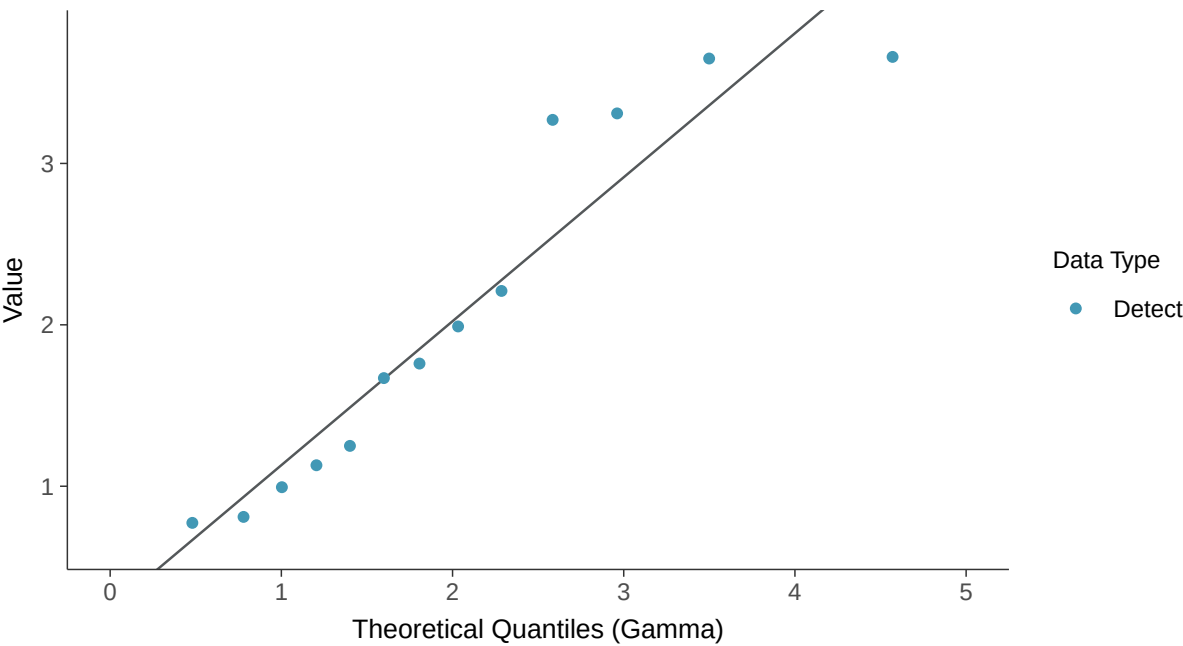
Radium-226+228, MW-7C (pci/l)



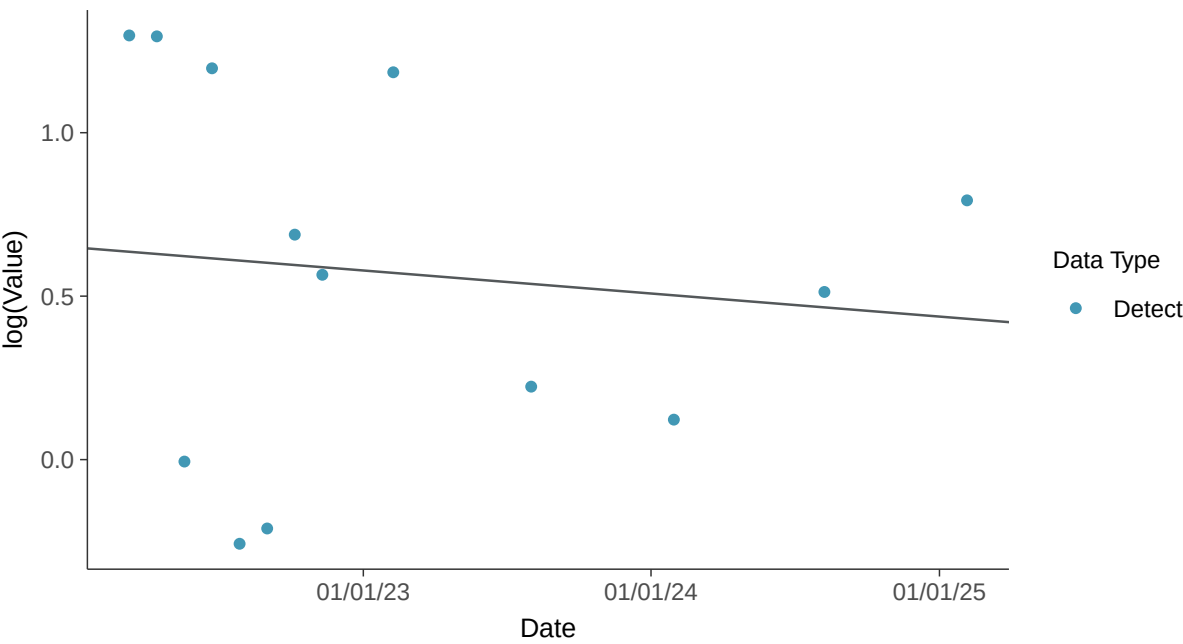




Gamma Q-Q plot
Radium-226+228, MW-7C (pci/l)



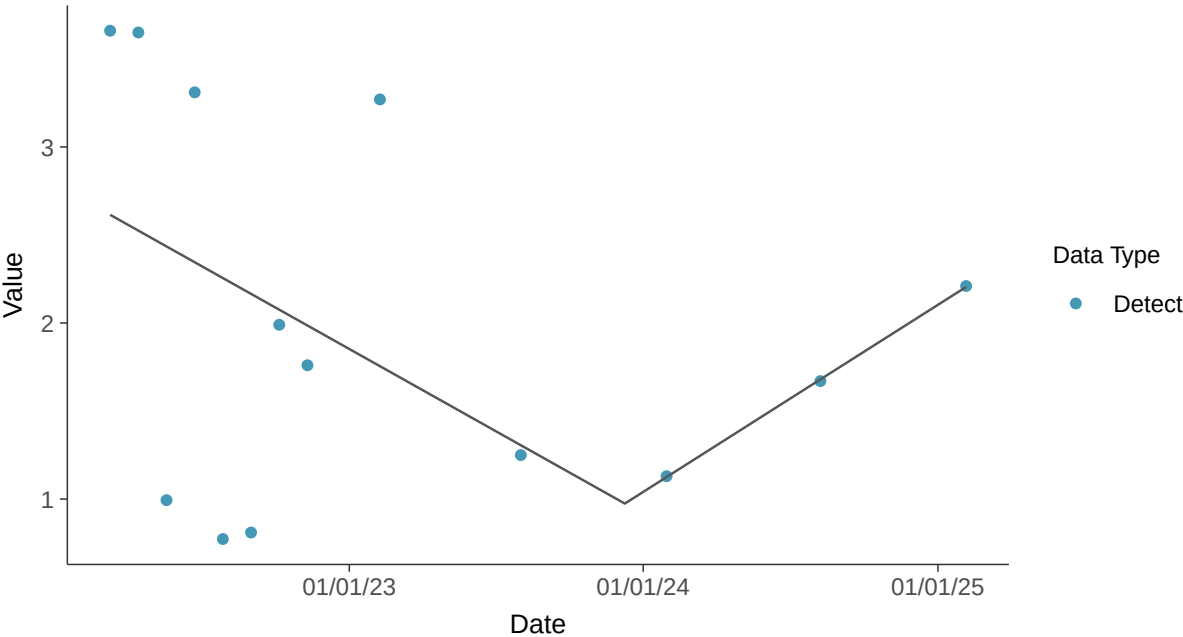
Trend Regression: Lognormal MLE
Radium-226+228, MW-7C (pci/l)





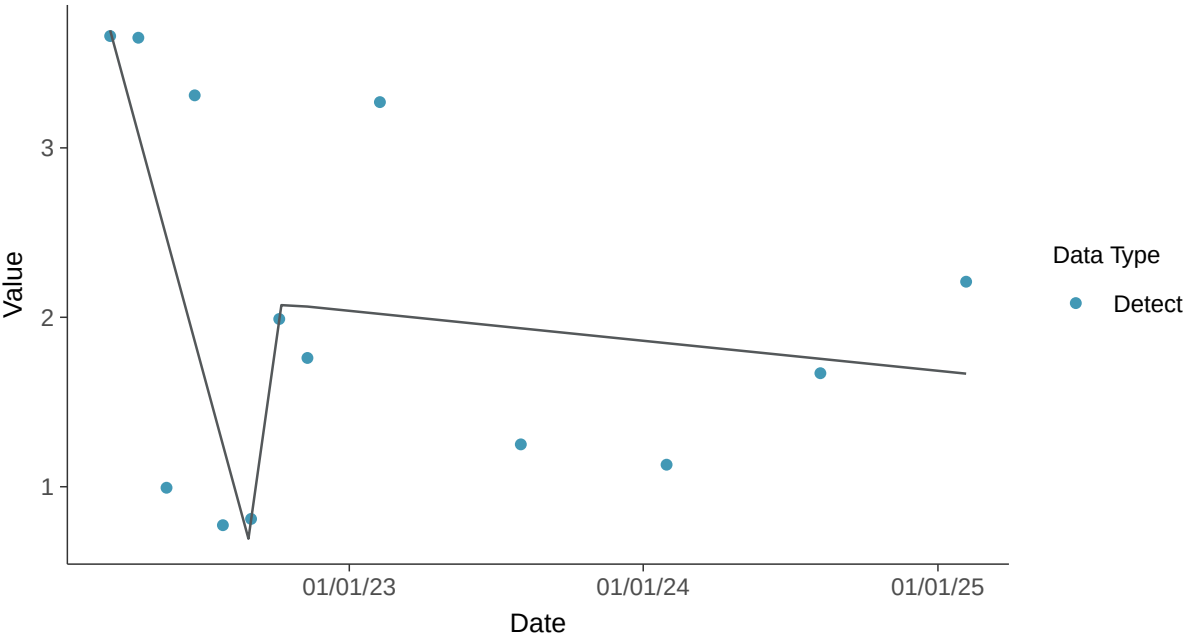
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-7C (pci/l)



Trend Regression: Piecewise Linear-Linear-Linear

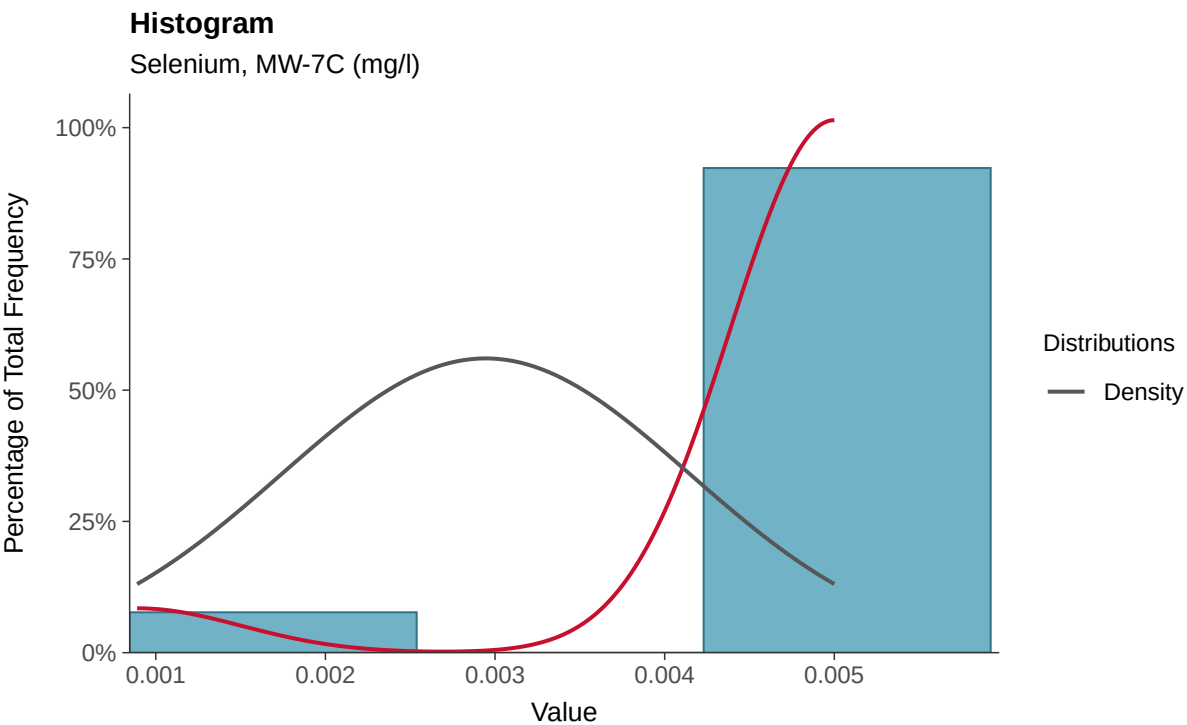
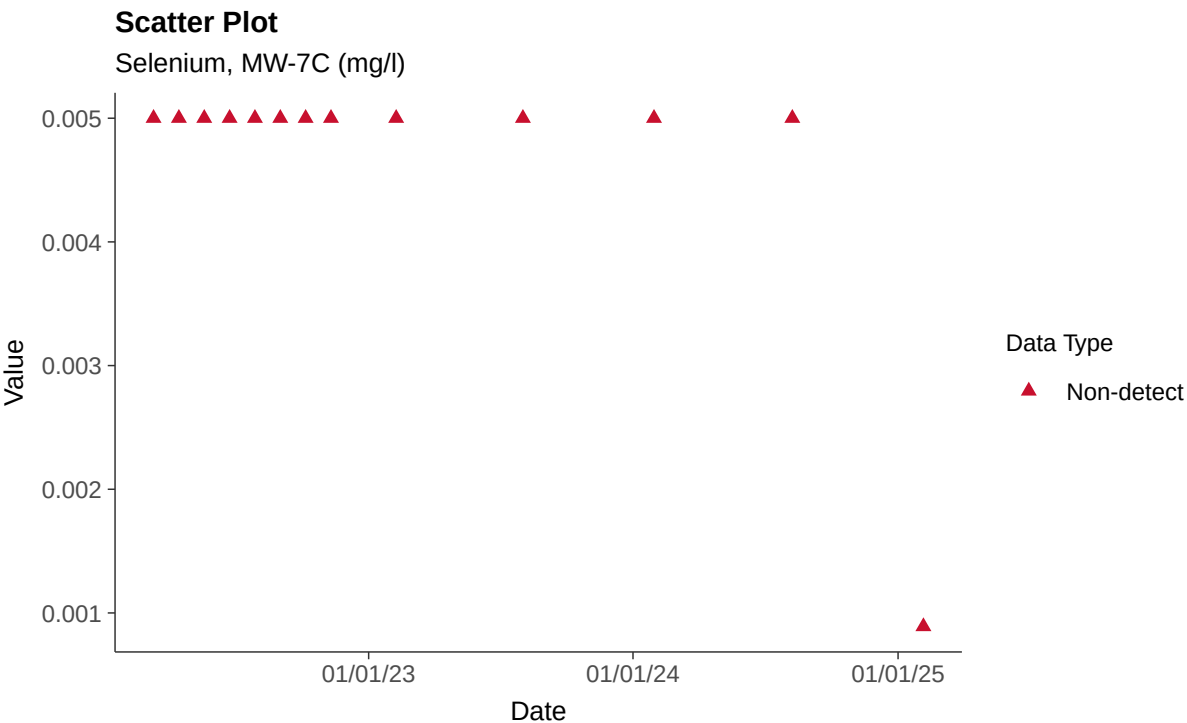
Radium-226+228, MW-7C (pci/l)

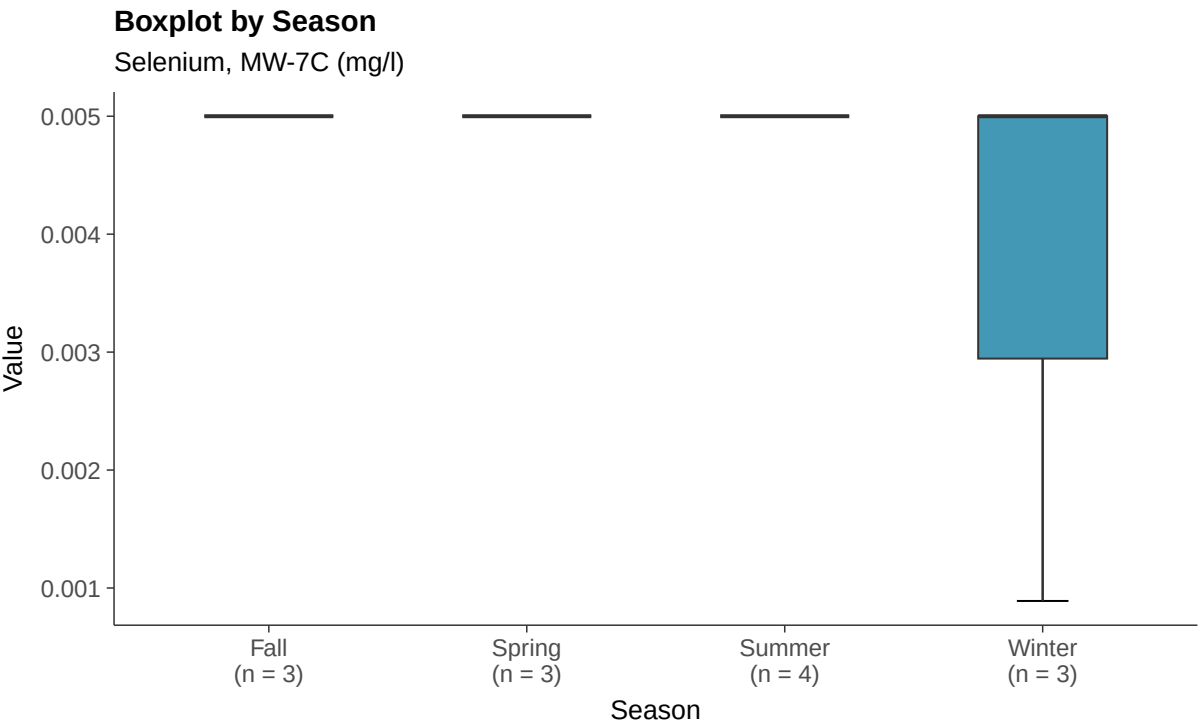
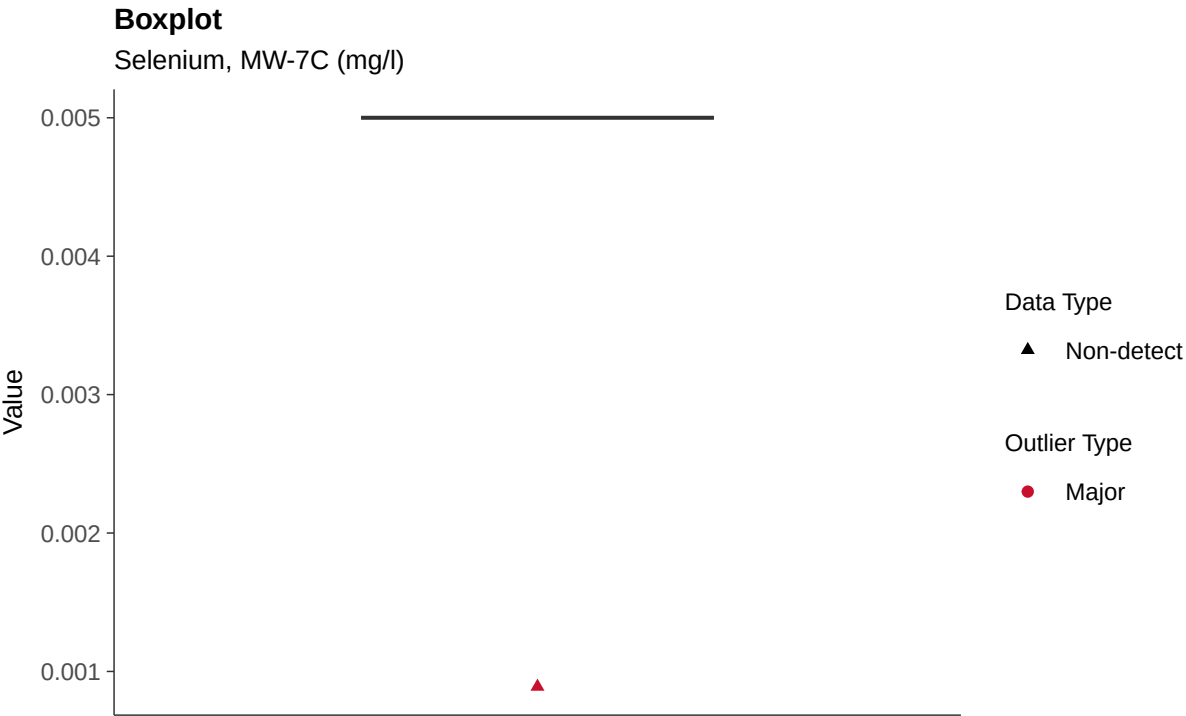




Appendix IV: Selenium, MW-7C

ID: 16_3_122

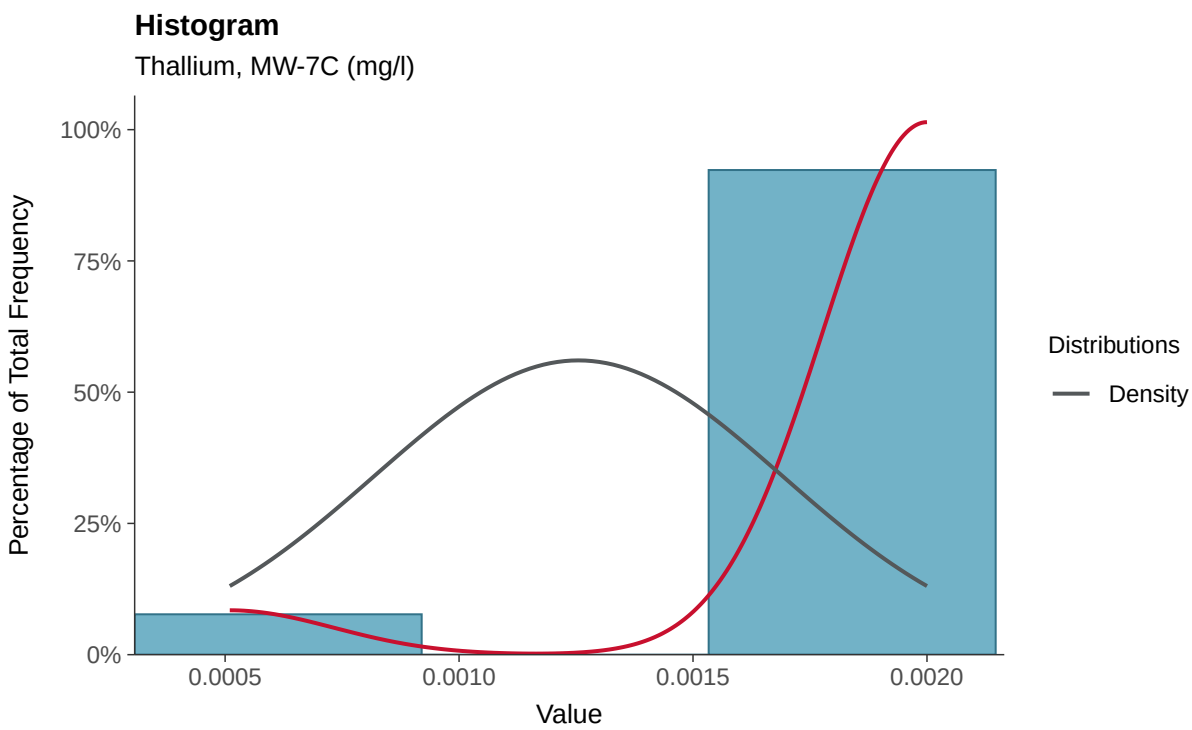
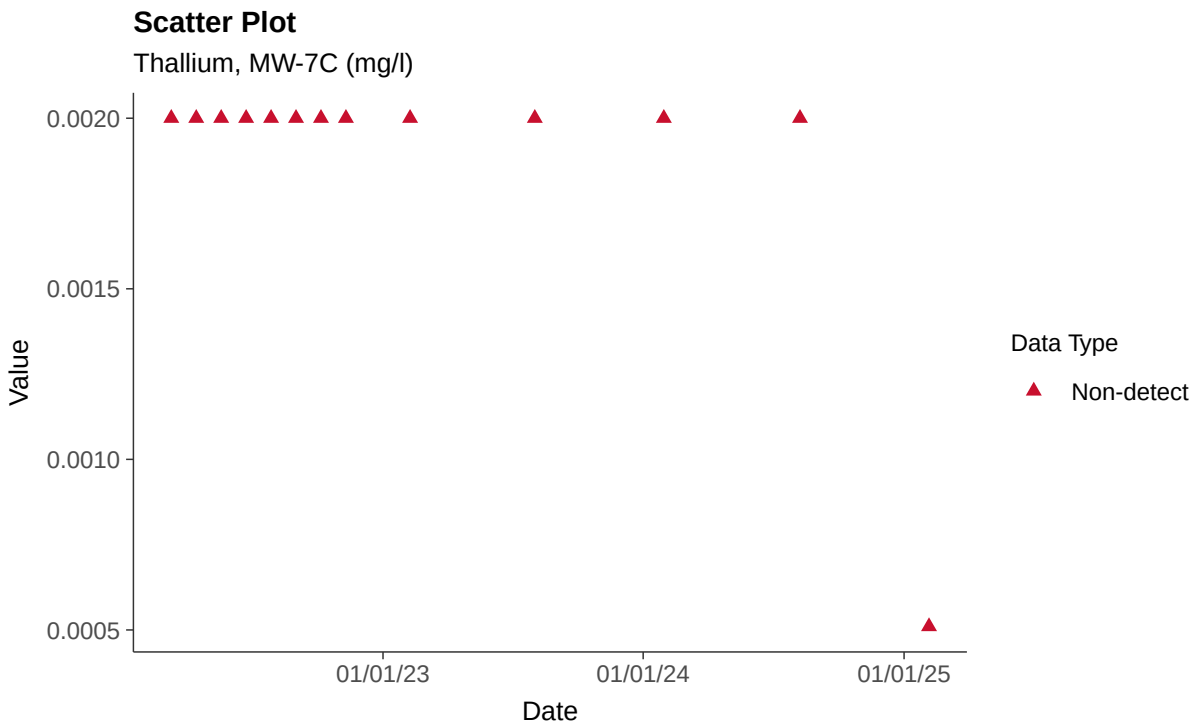


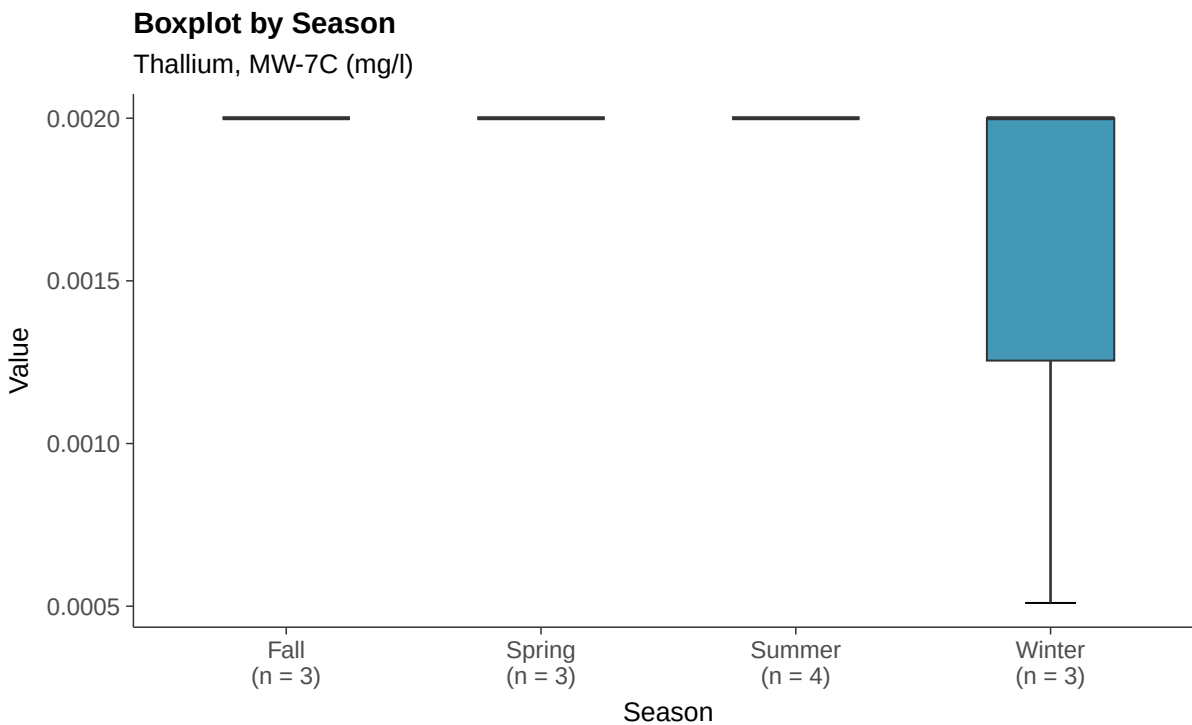
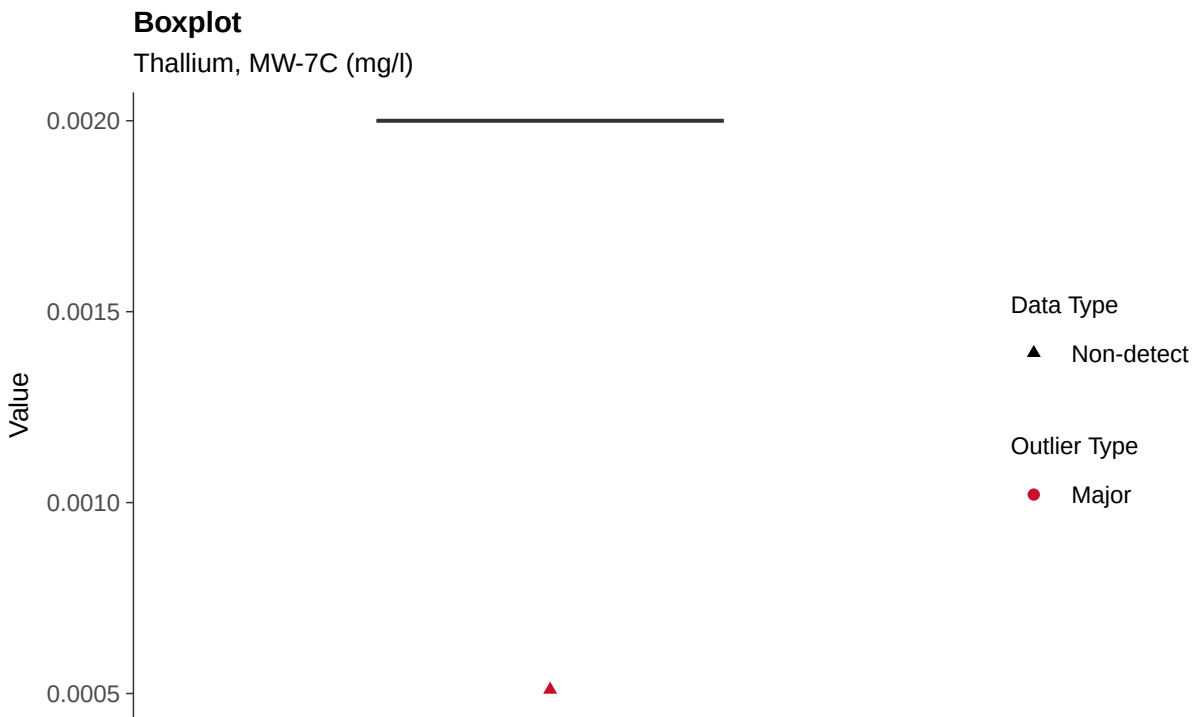




Appendix IV: Thallium, MW-7C

ID: 16_3_125

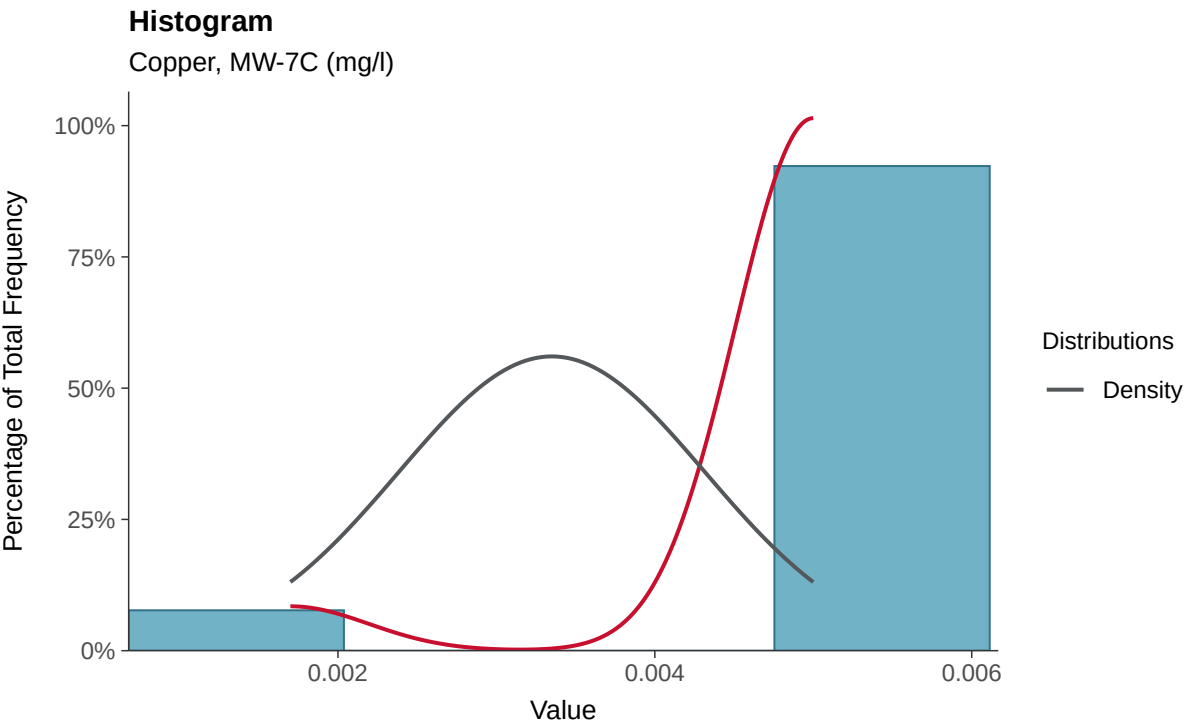
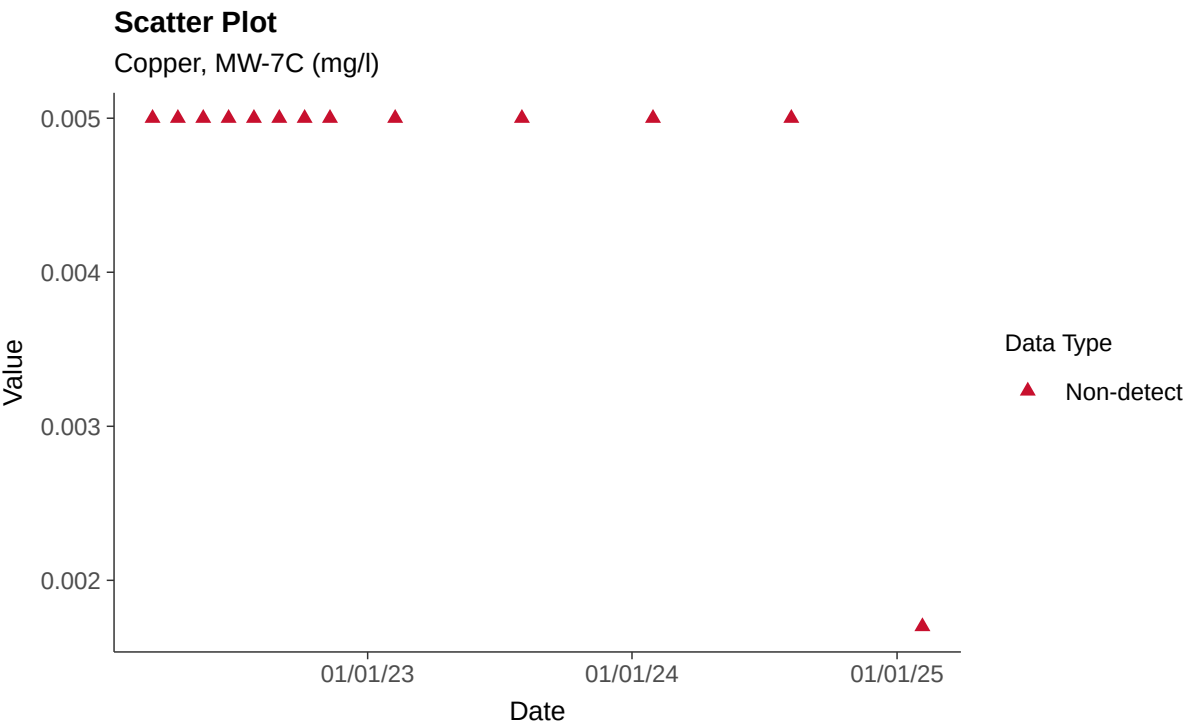


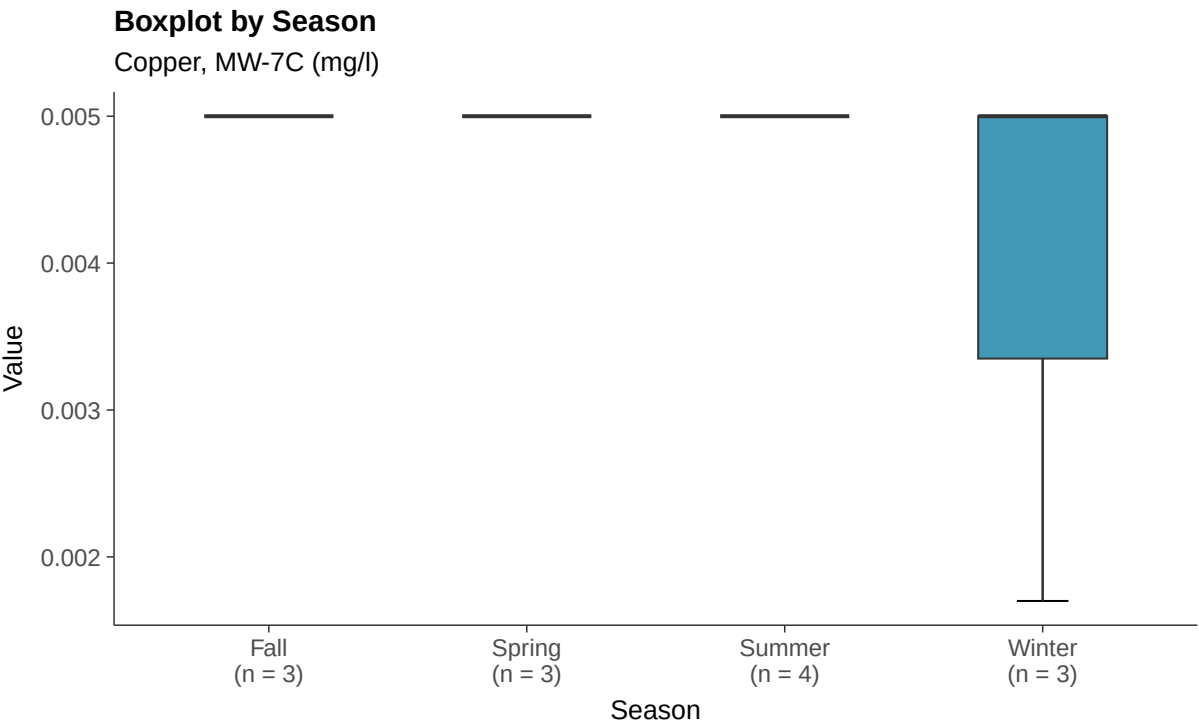
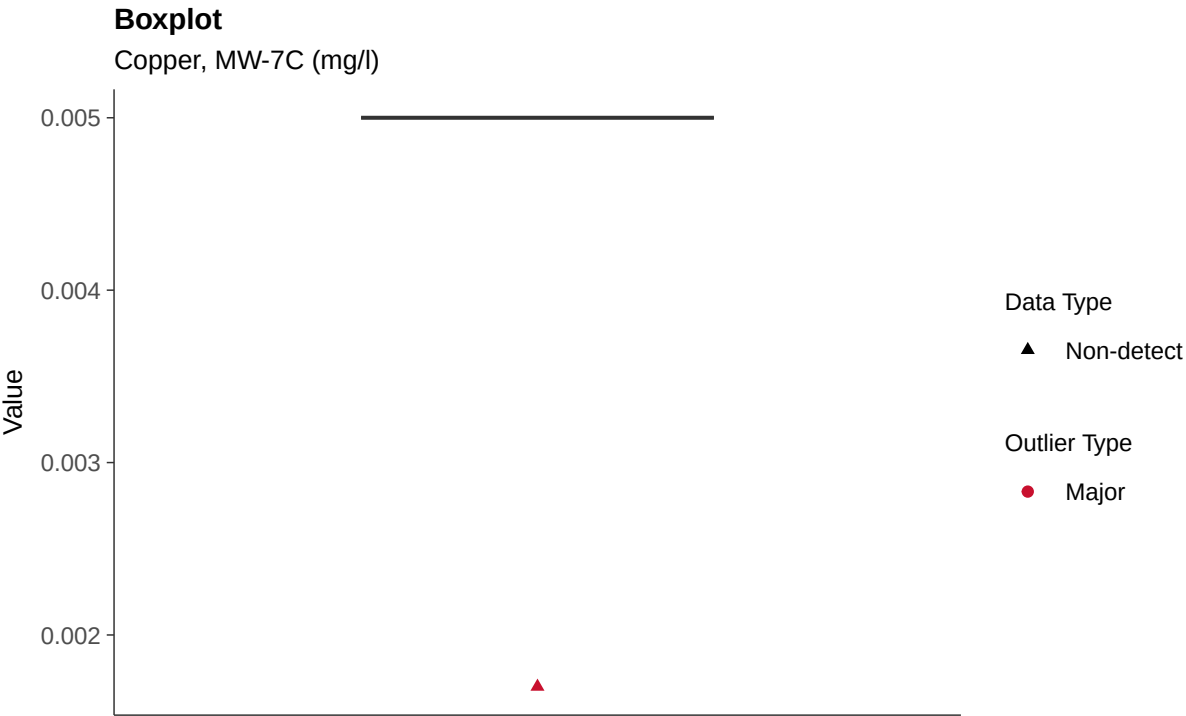




Part 115: Copper, MW-7C

ID: 16_5_111

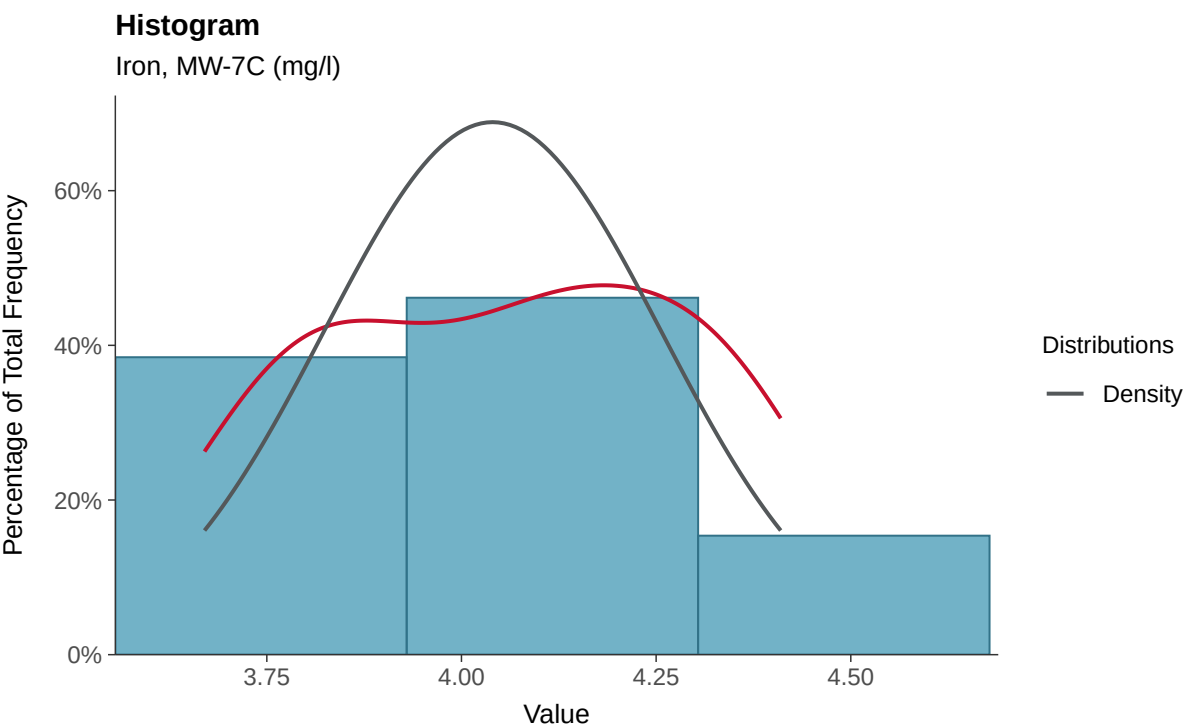
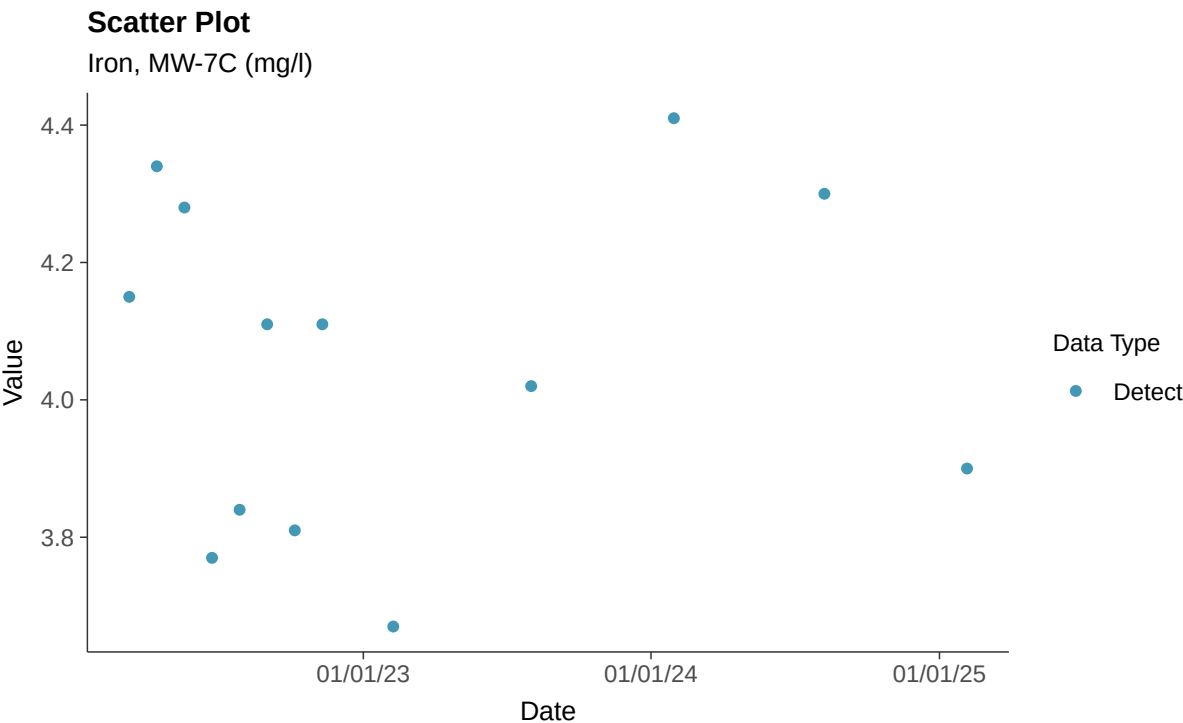


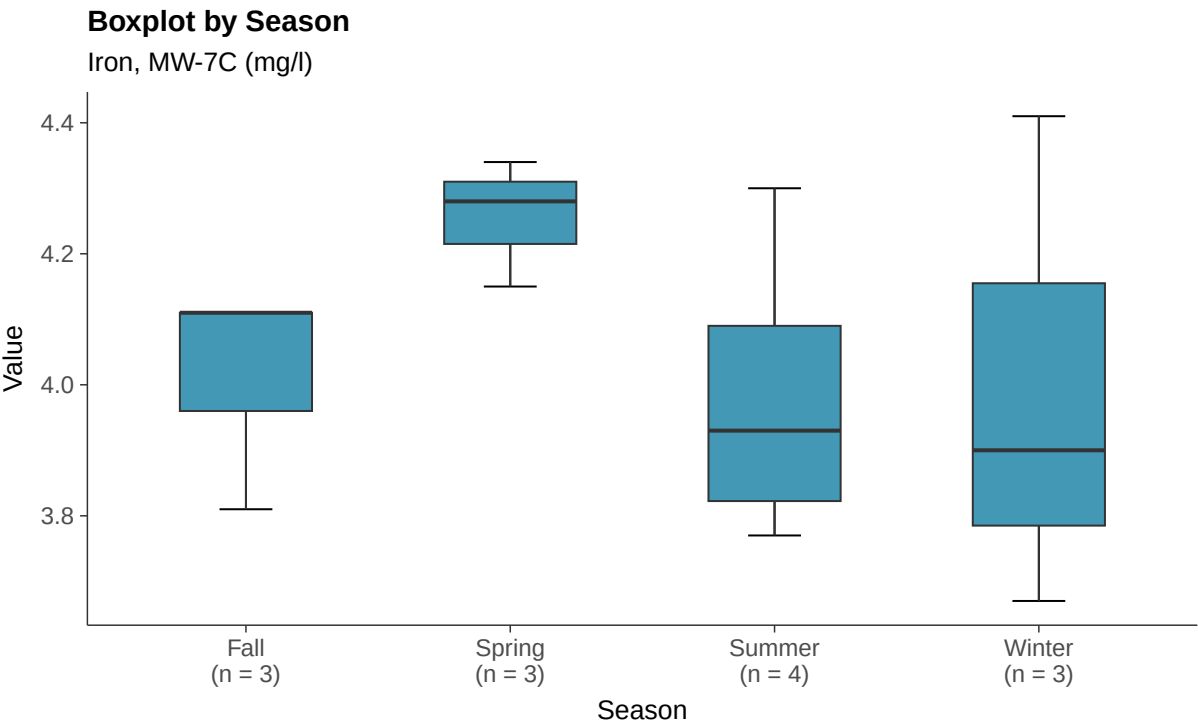
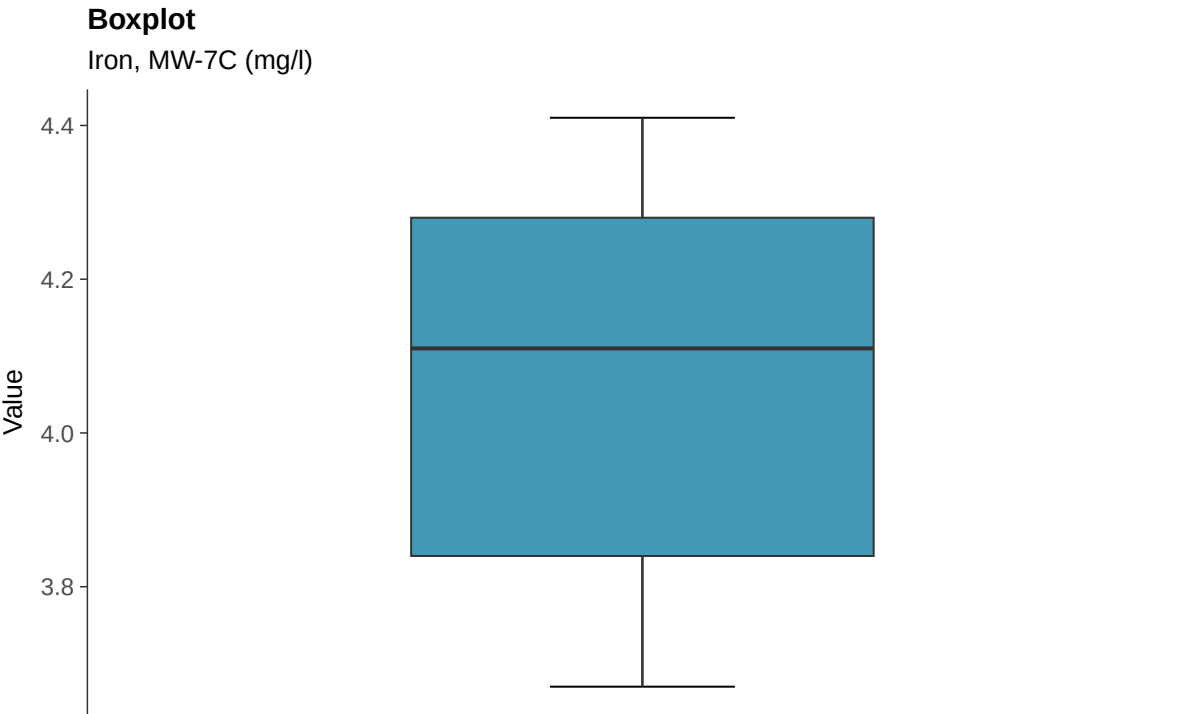


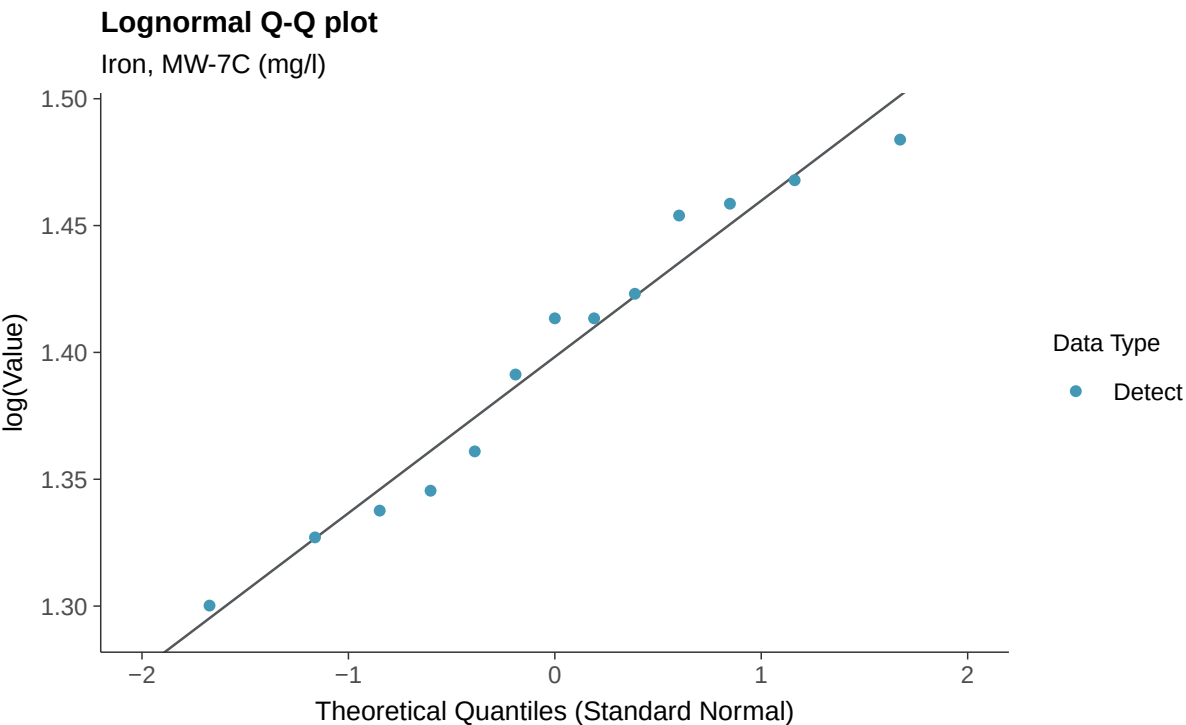
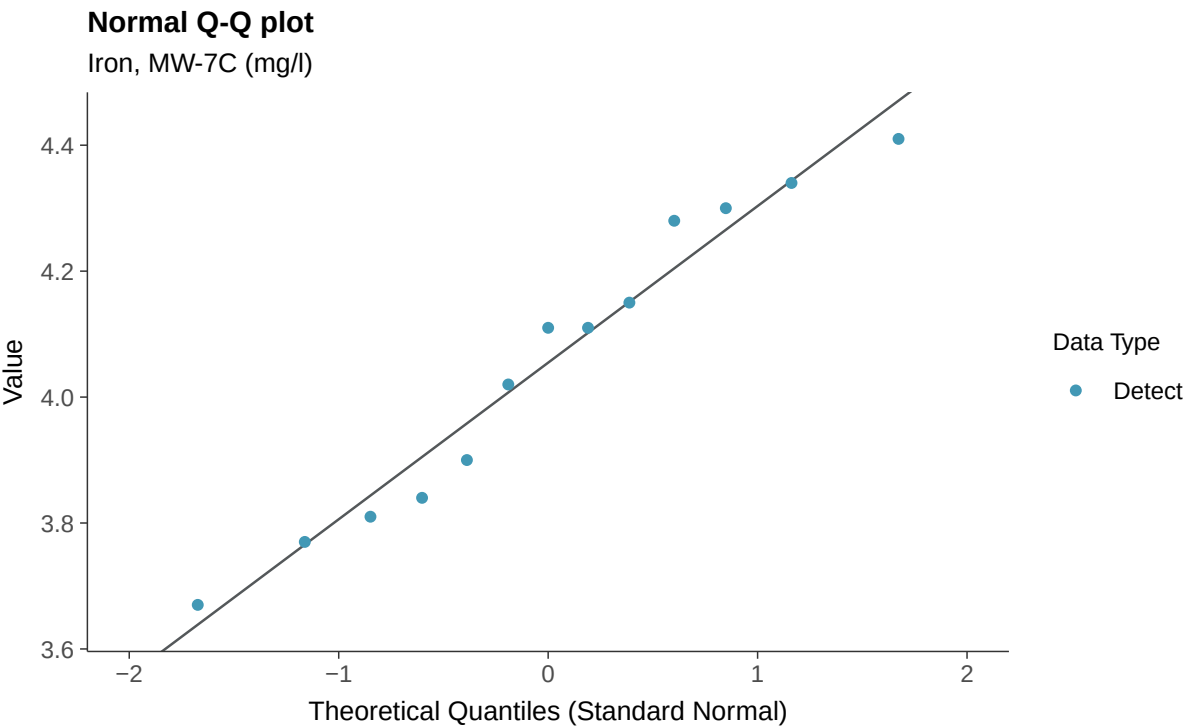


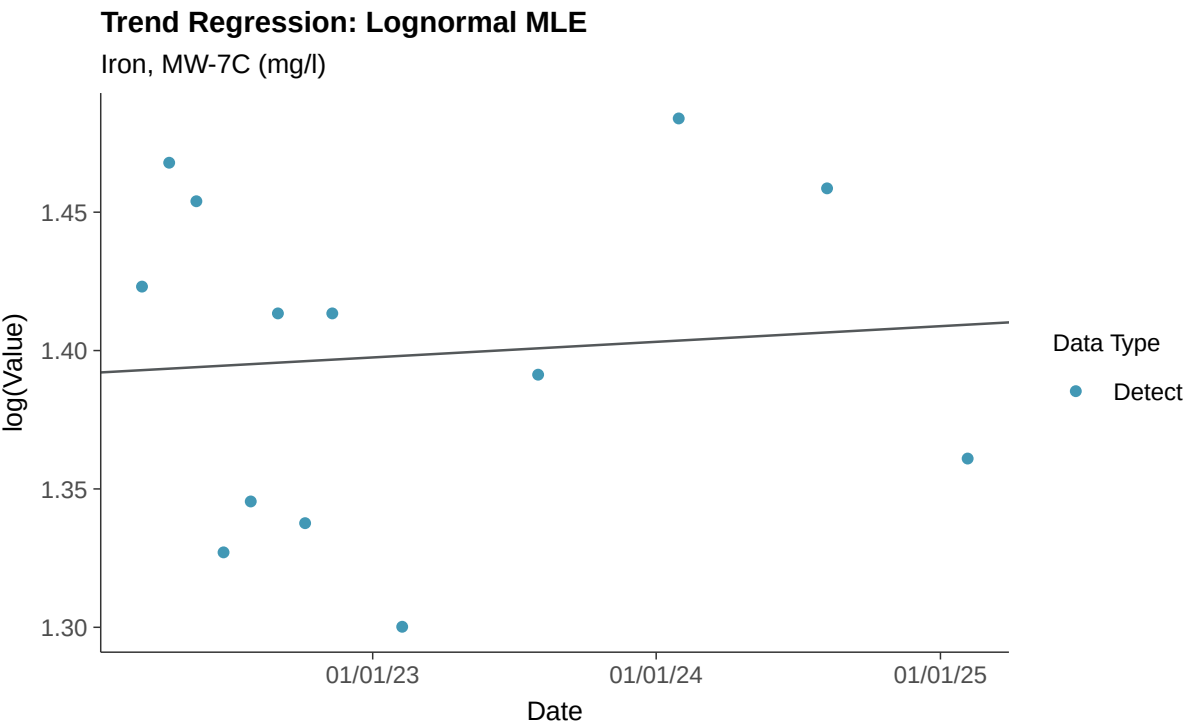
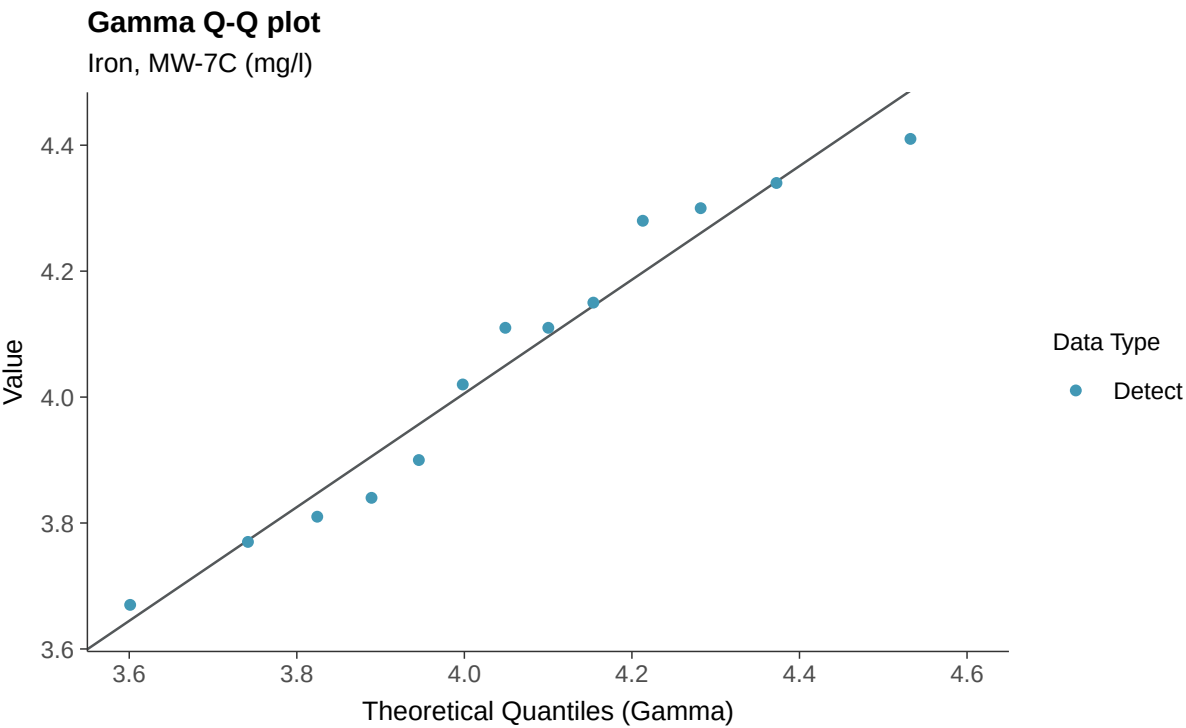
Part 115: Iron, MW-7C

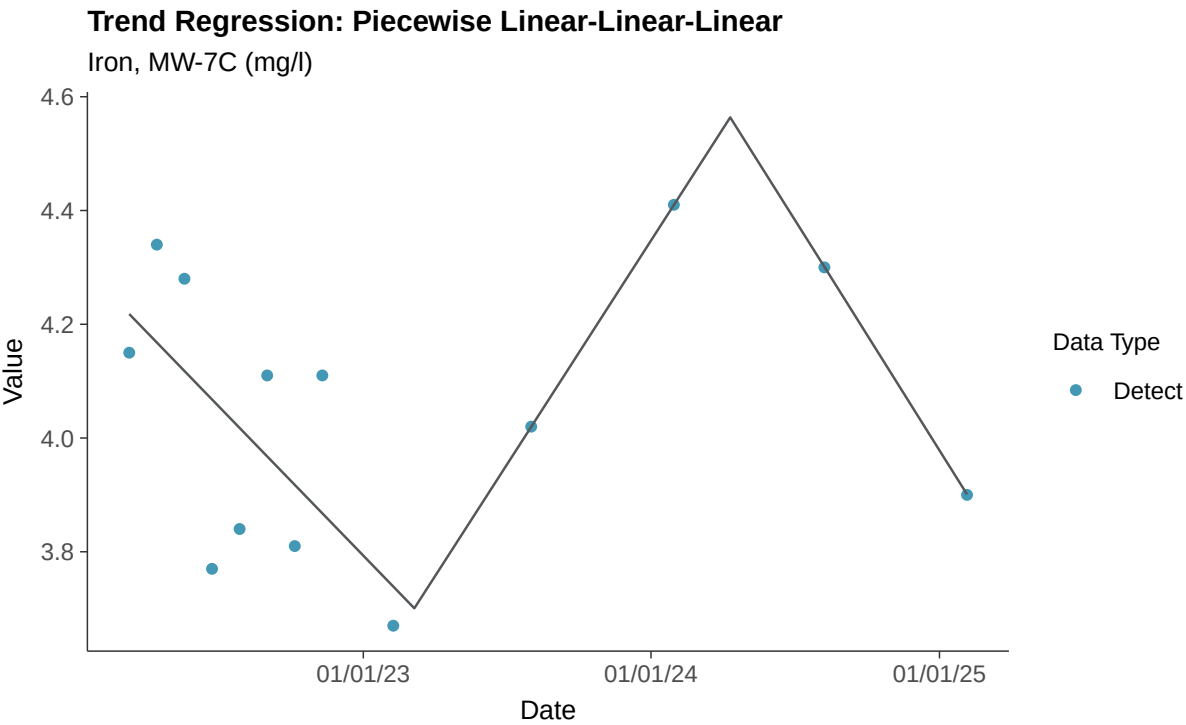
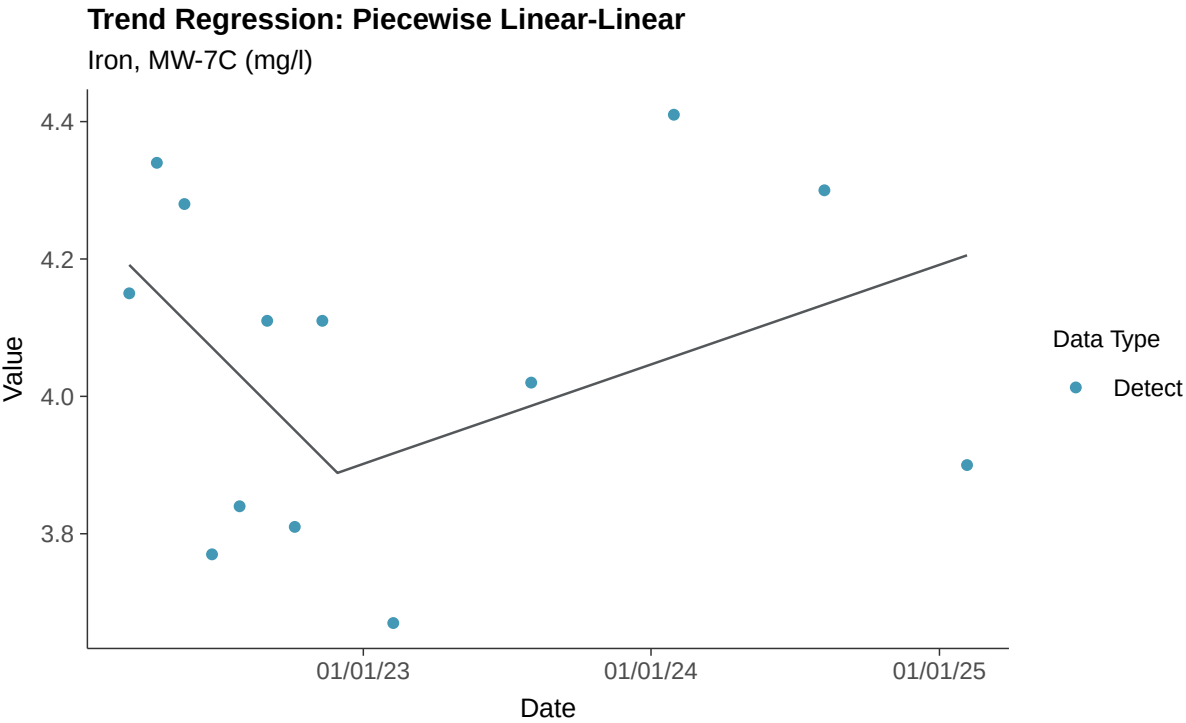
ID: 16_5_114







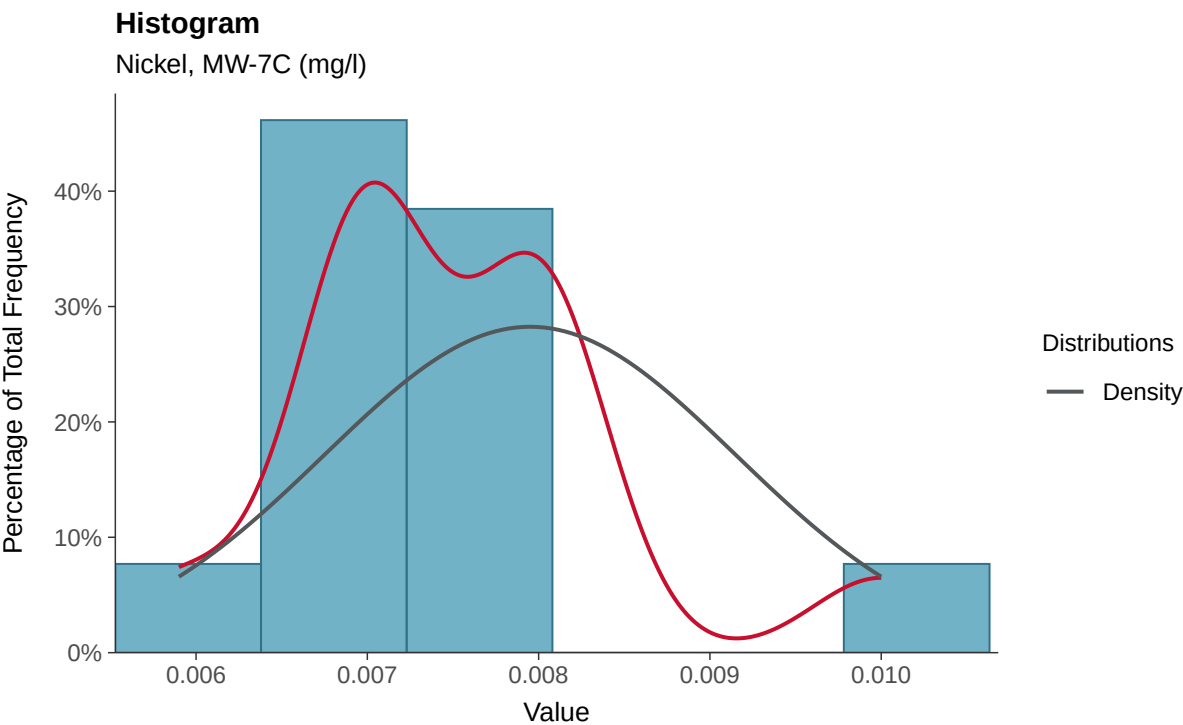
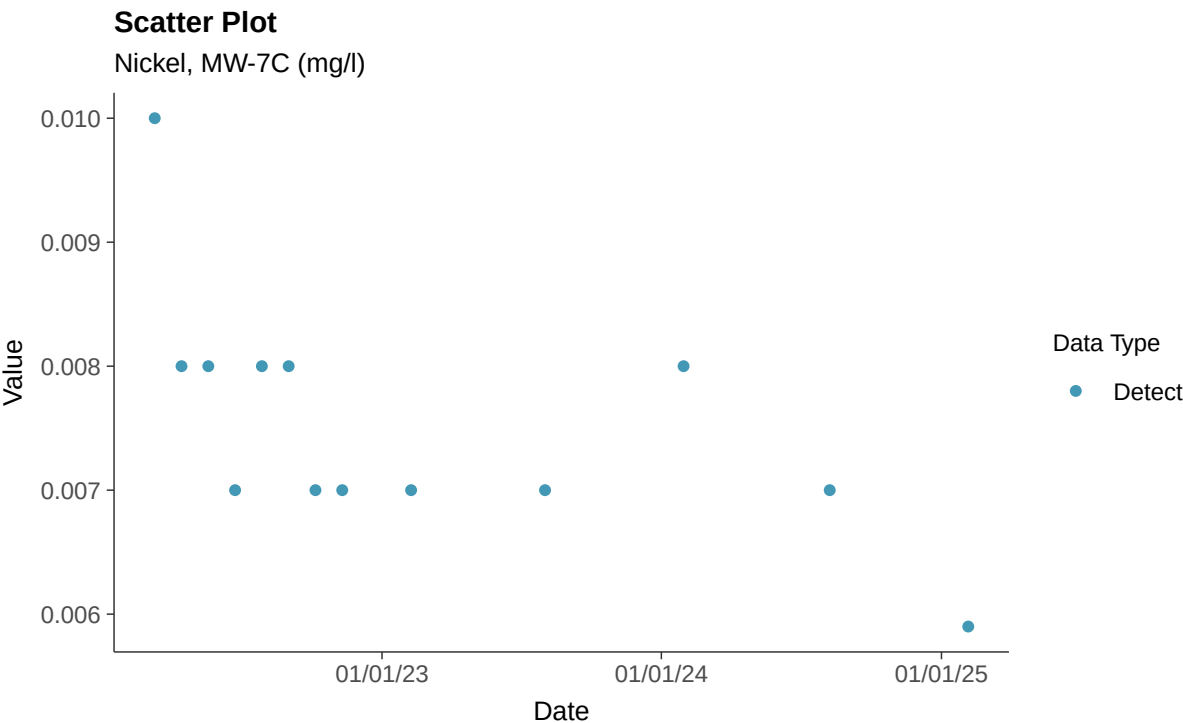


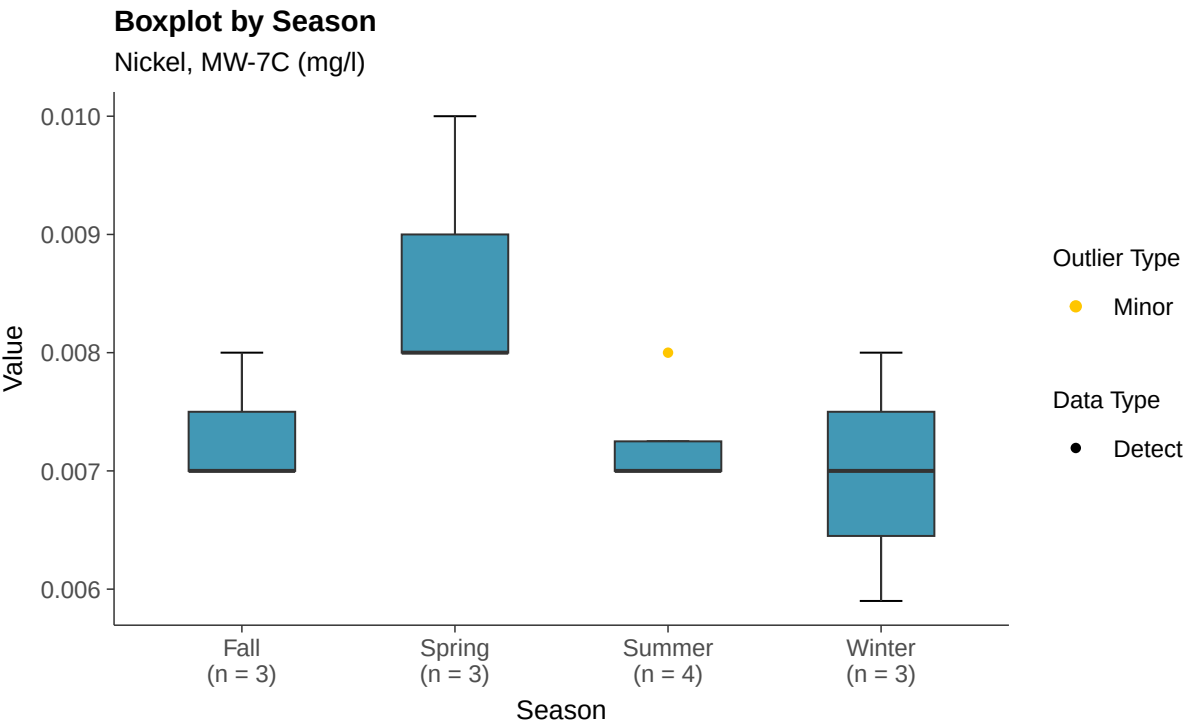
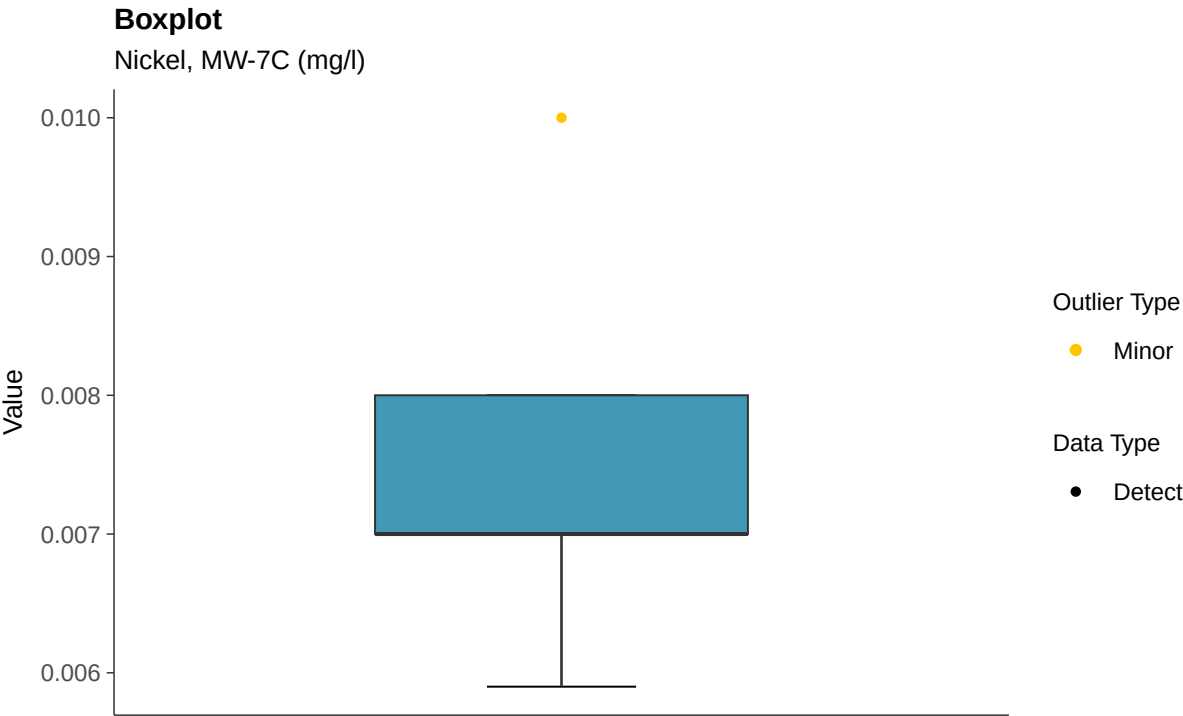


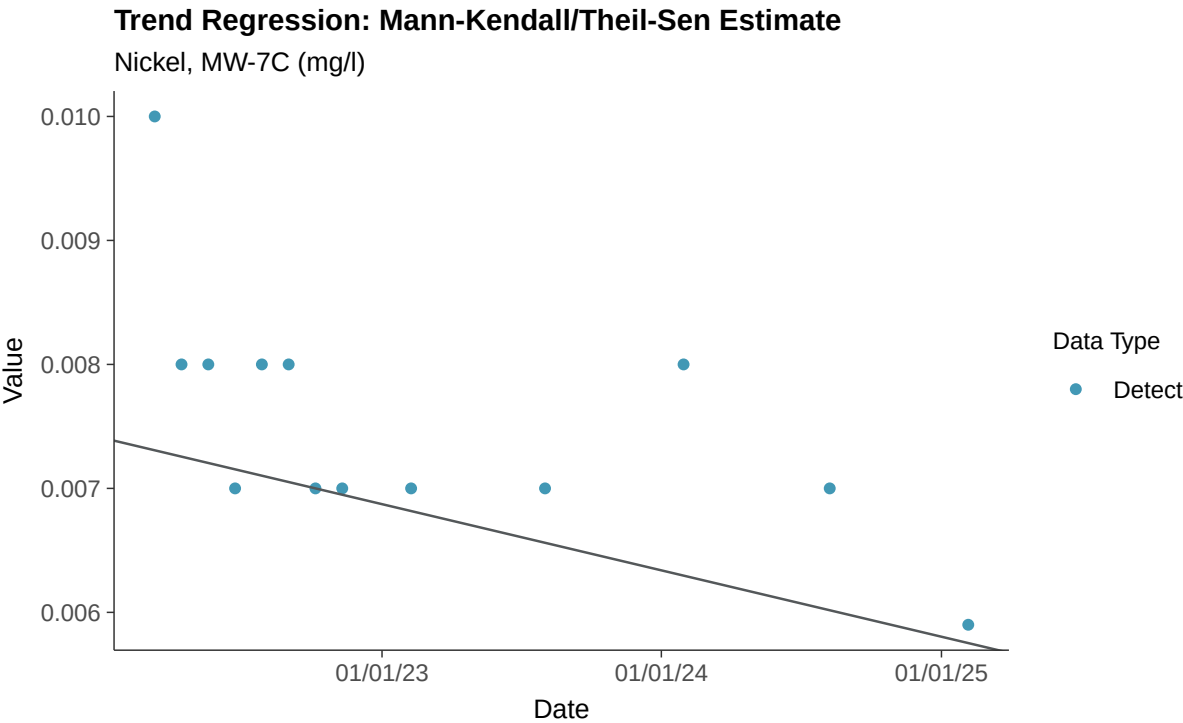
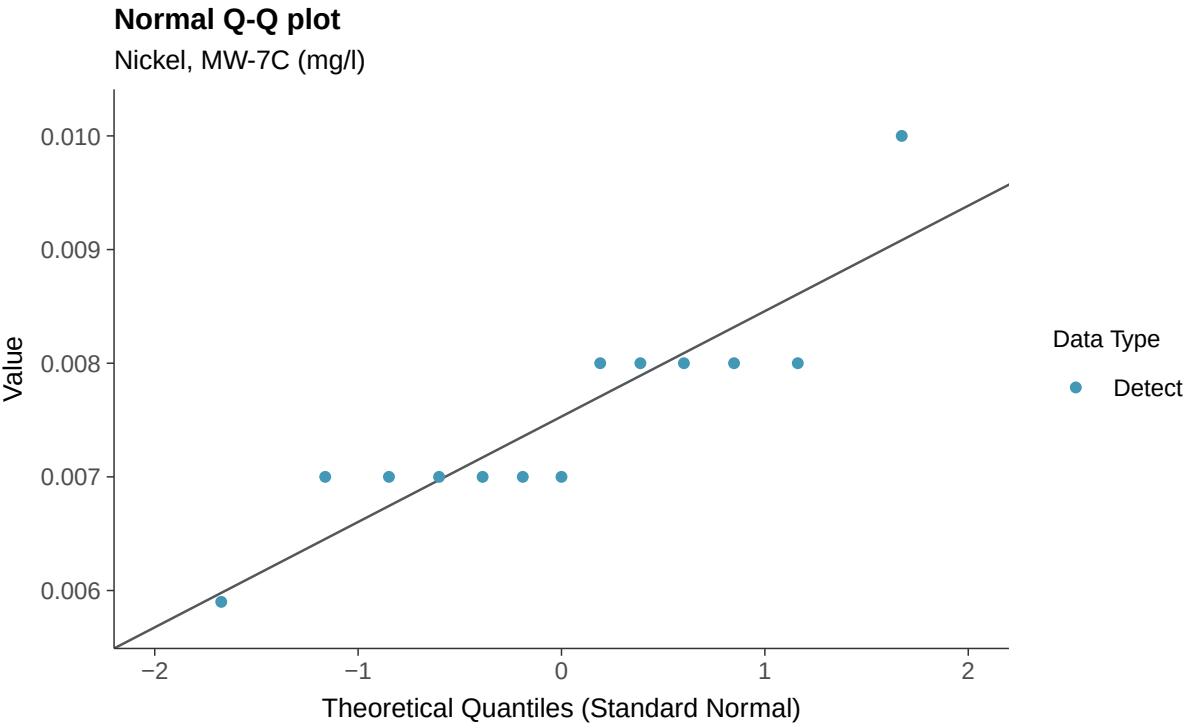


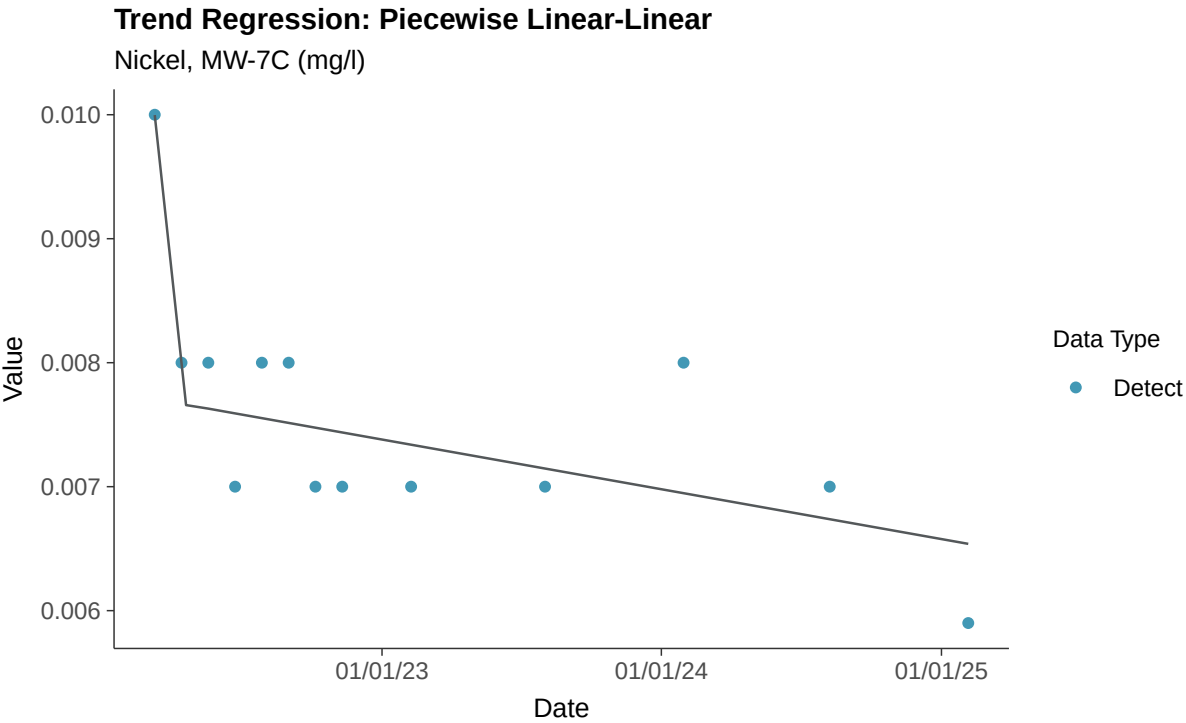
Part 115: Nickel, MW-7C

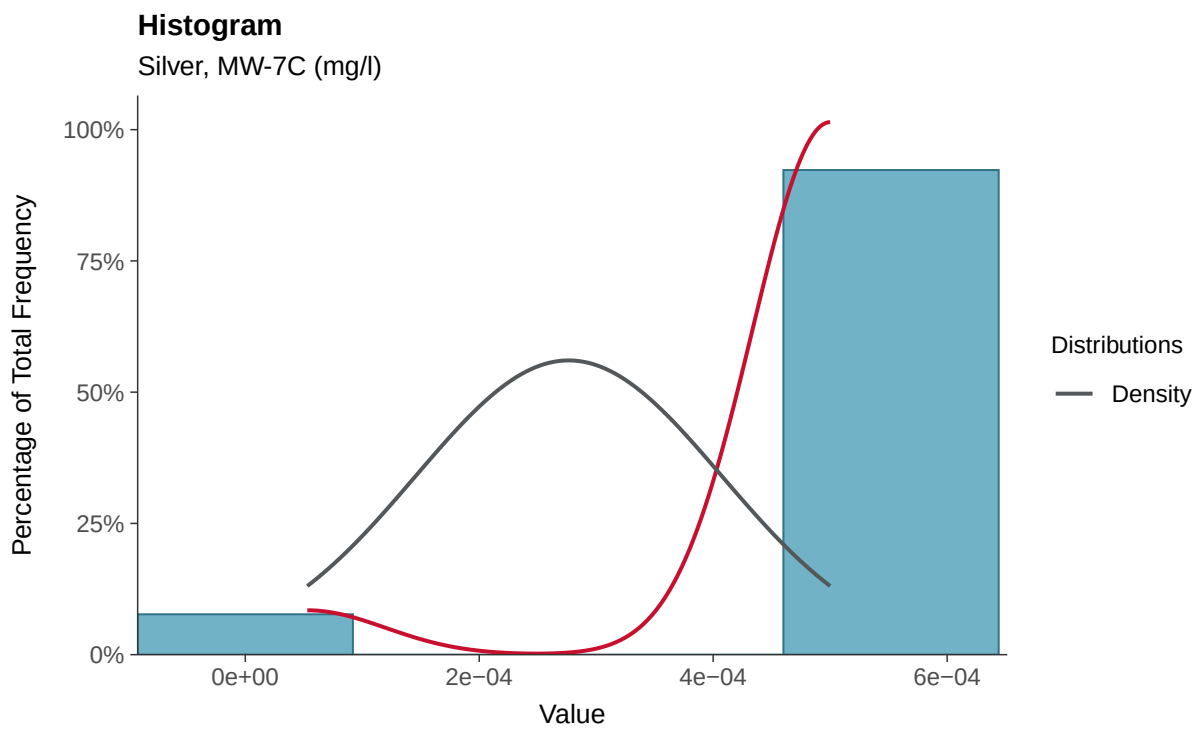
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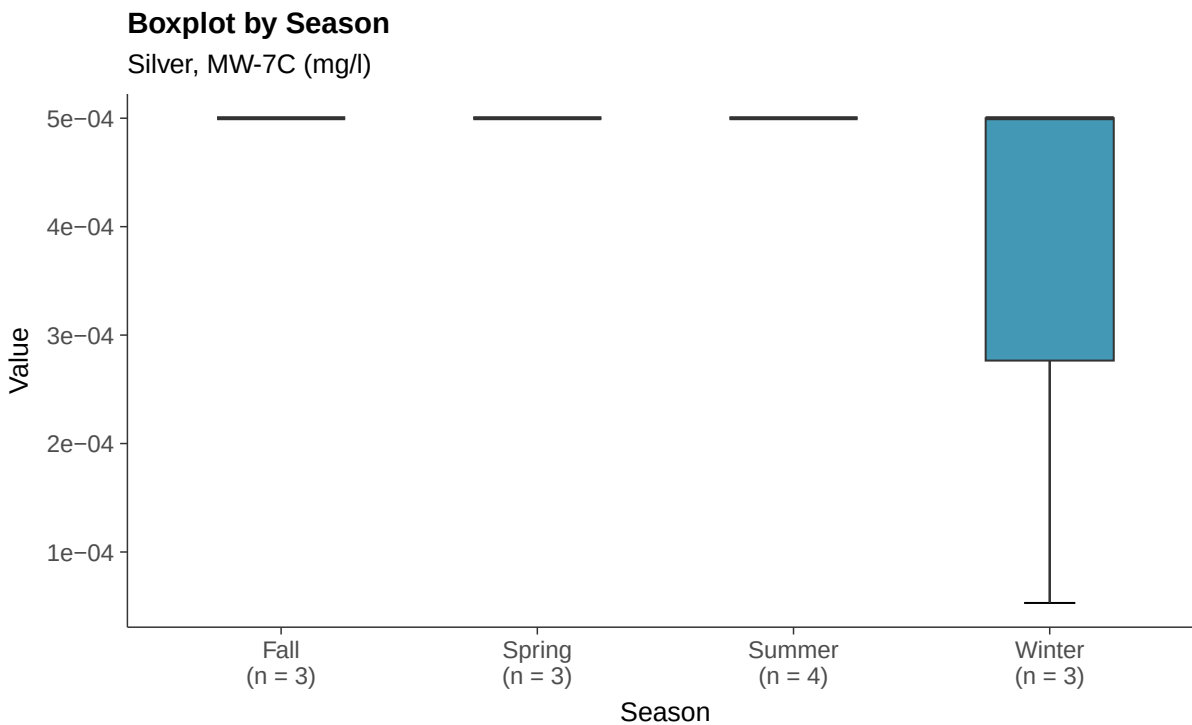
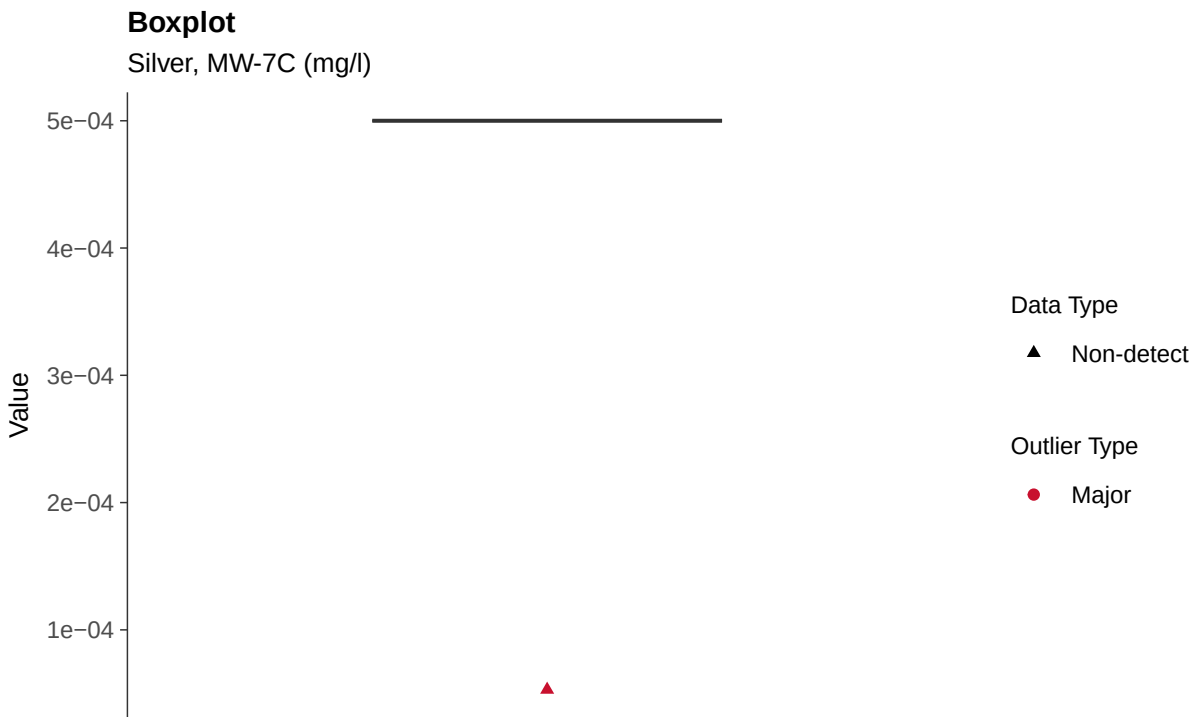








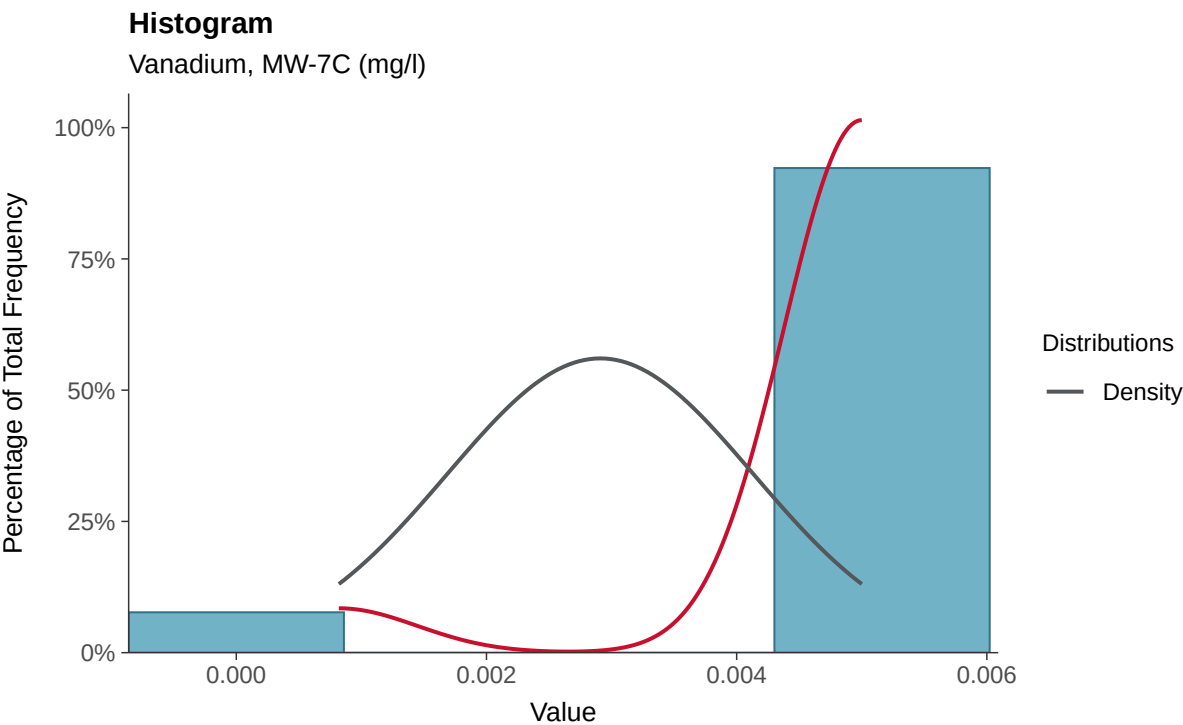
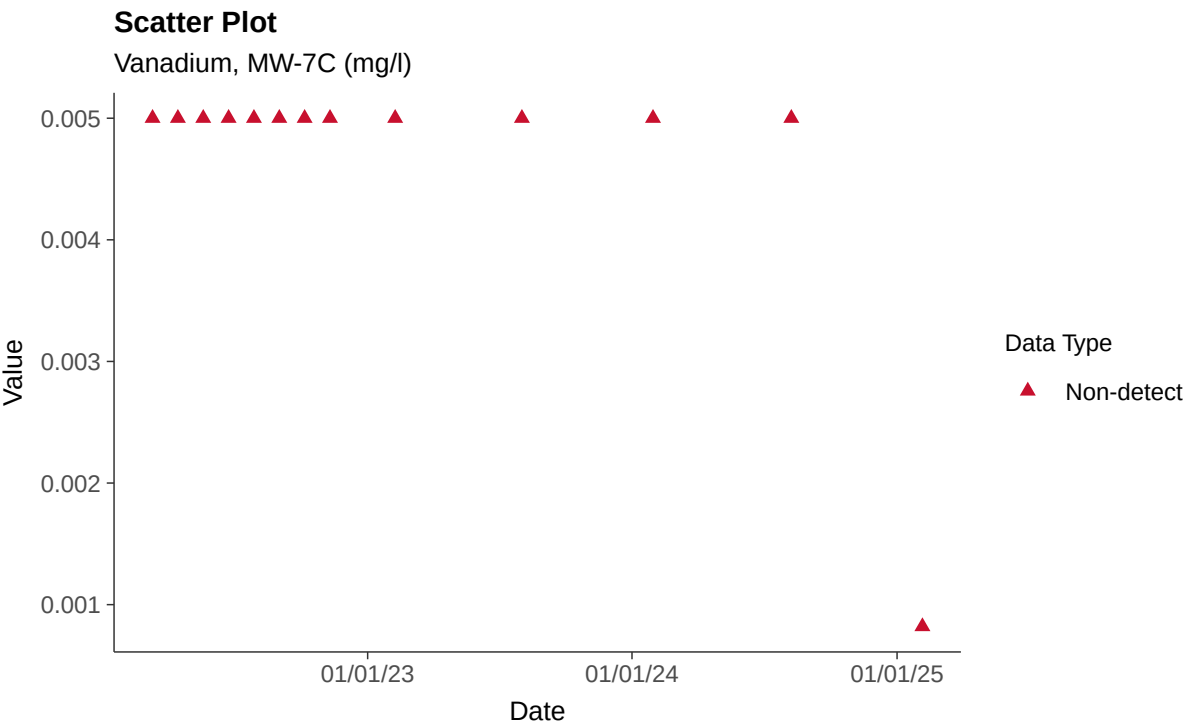


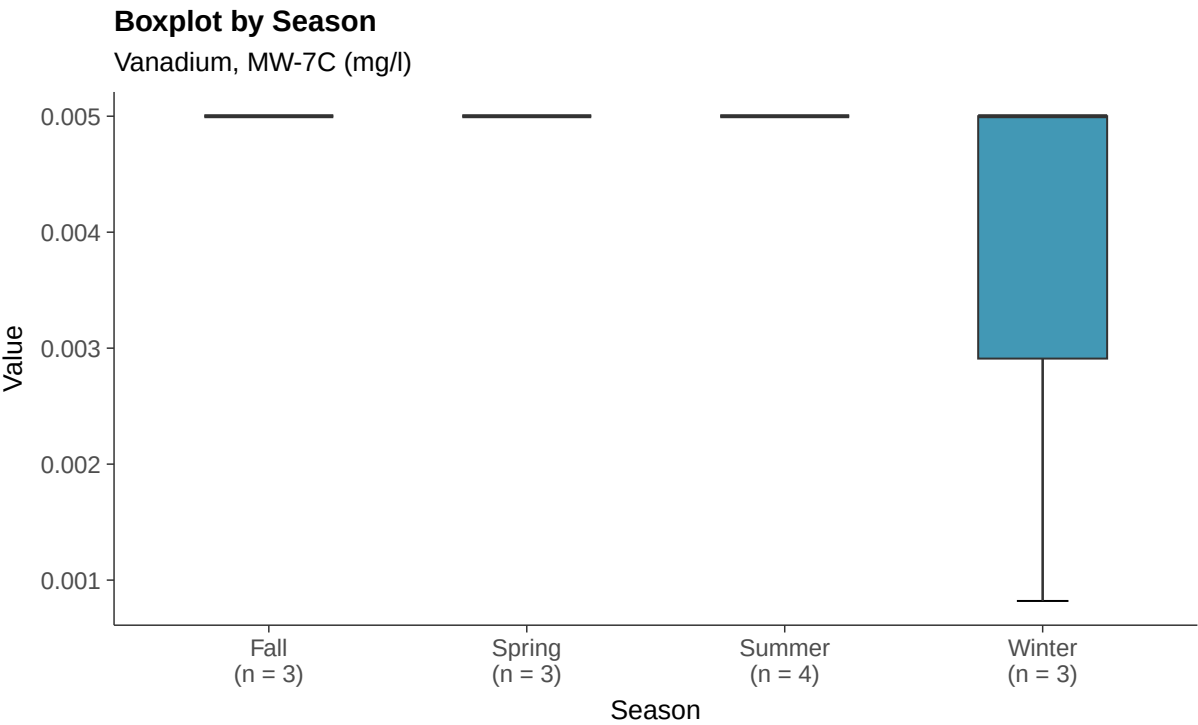
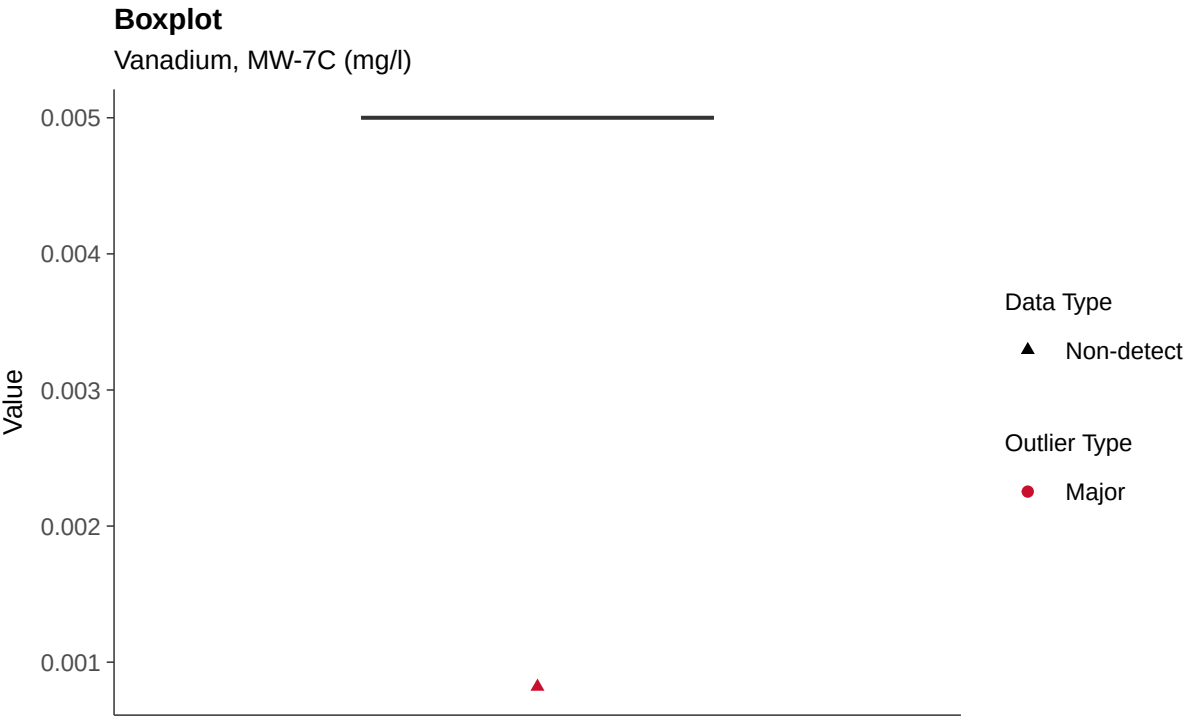




Part 115: Vanadium, MW-7C

ID: 16_5_128

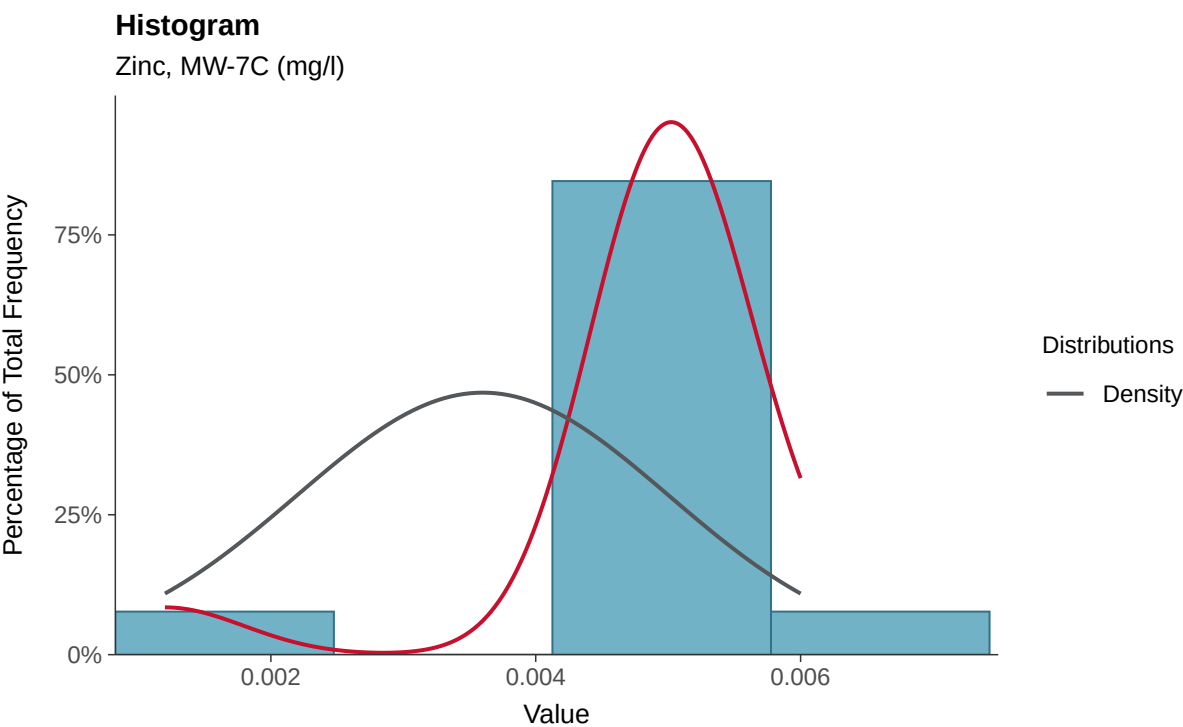
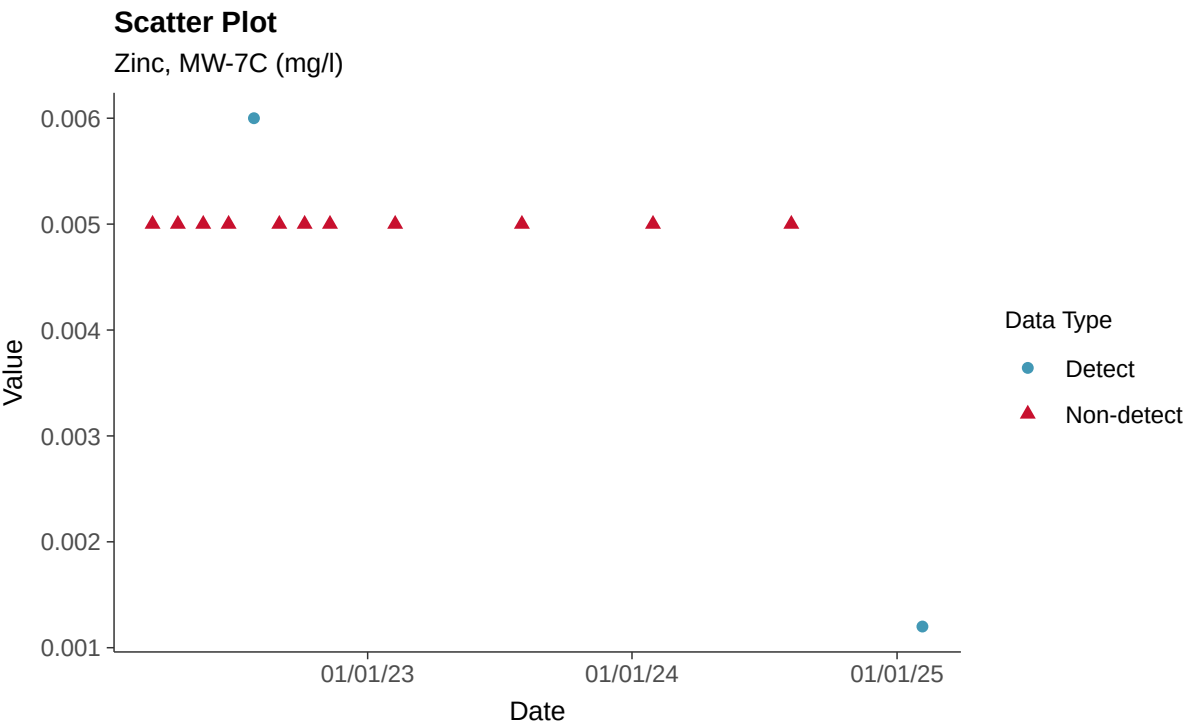


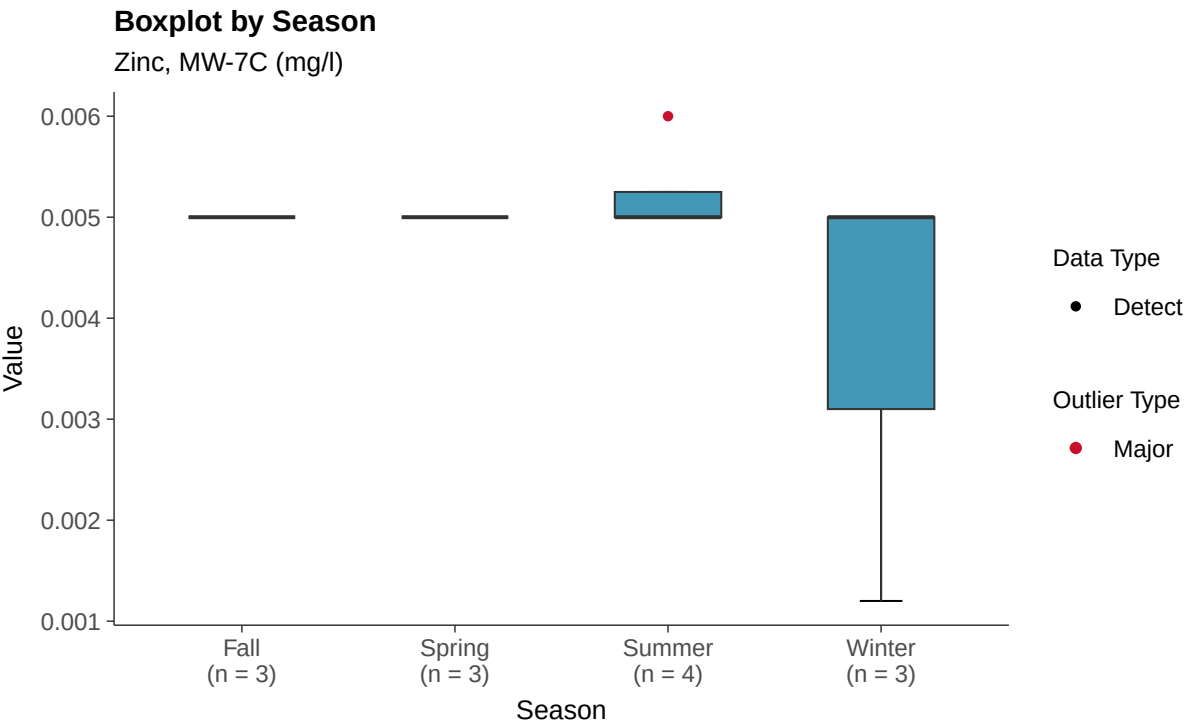
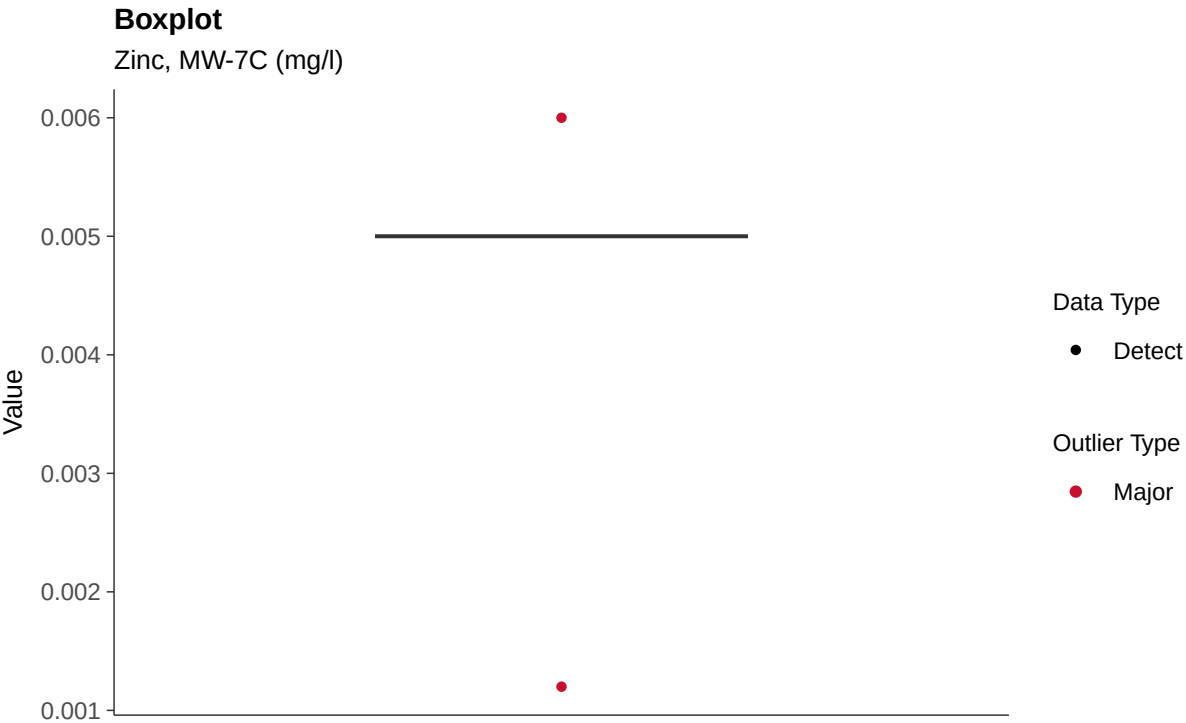




Part 115: Zinc, MW-7C

ID: 16_5_129

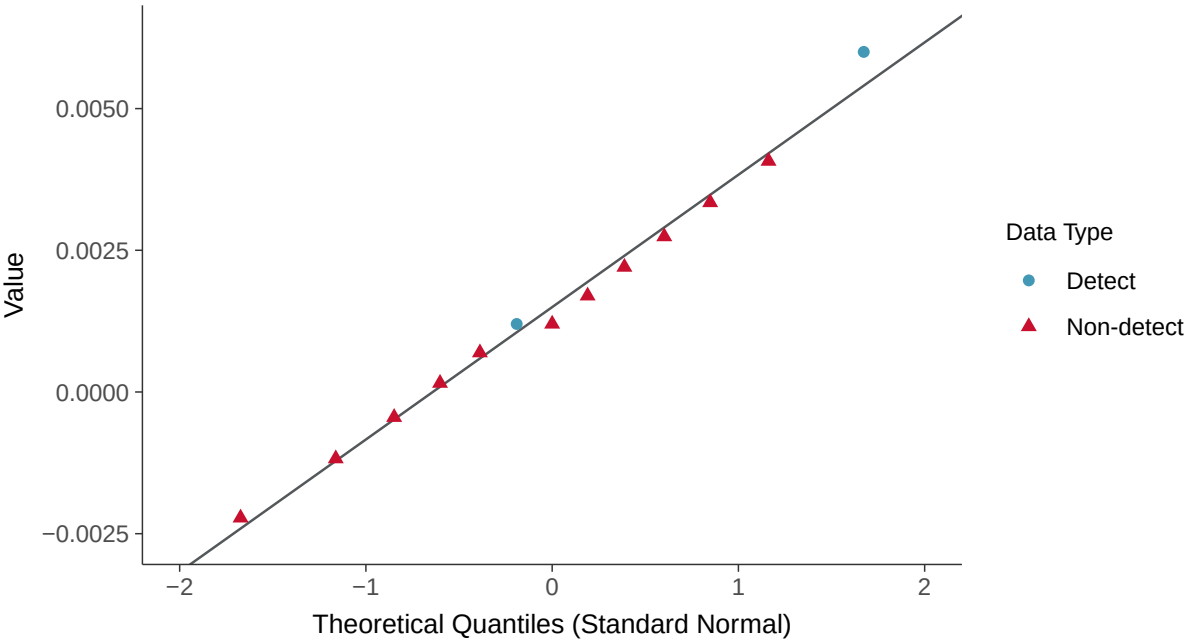






Normal Q-Q plot using ROS Imputed Estimates

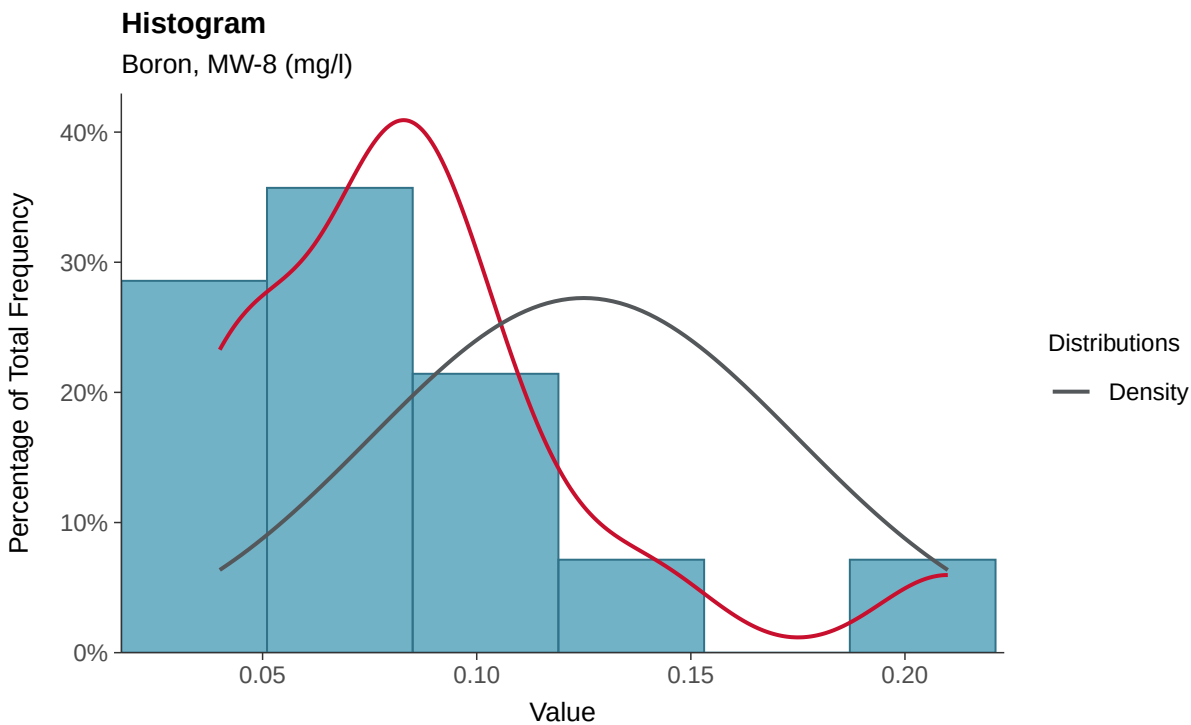
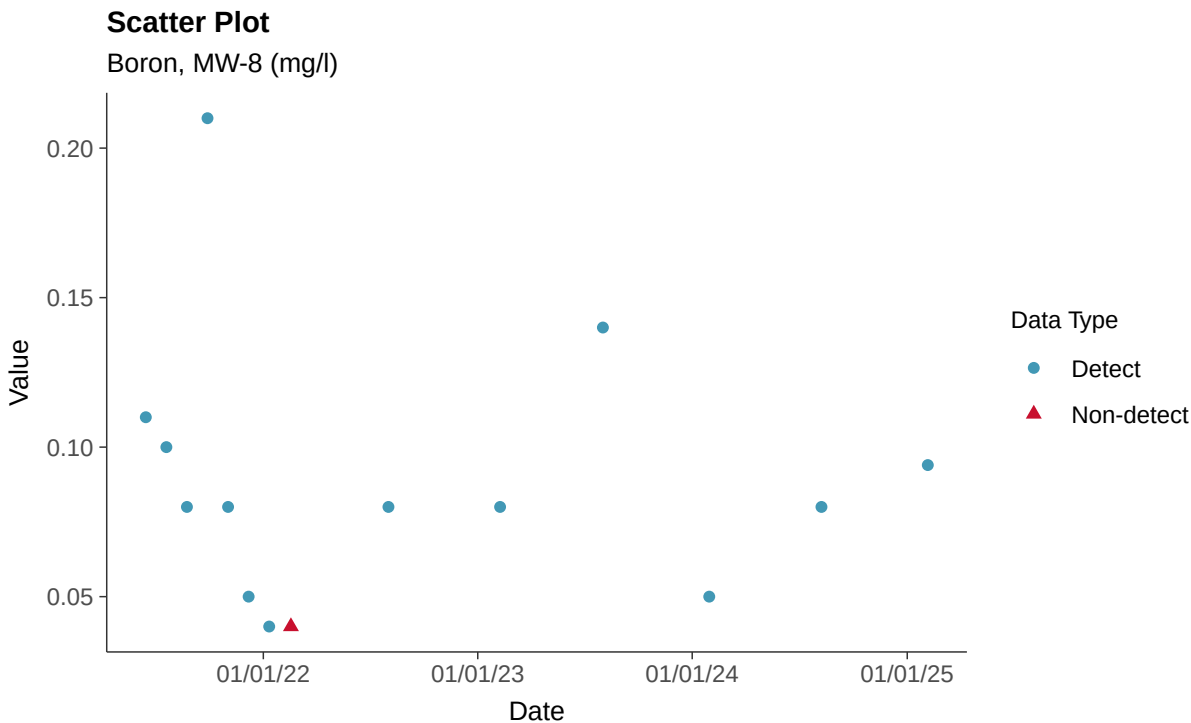
Zinc, MW-7C (mg/l)

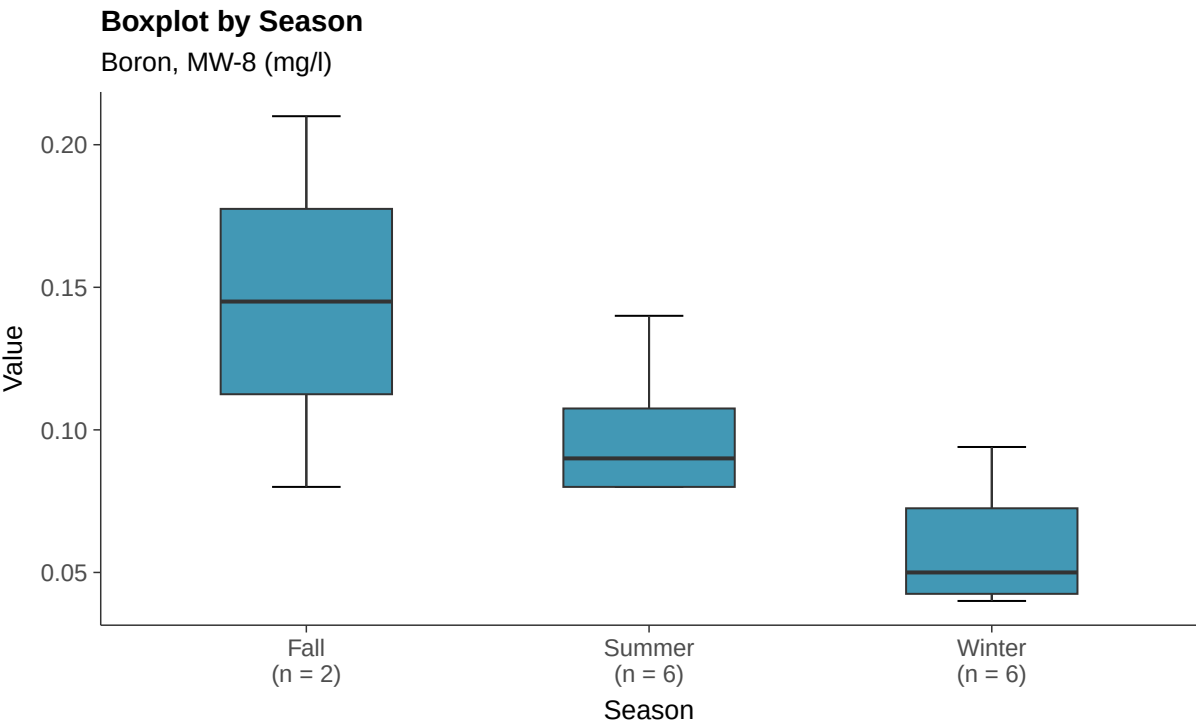
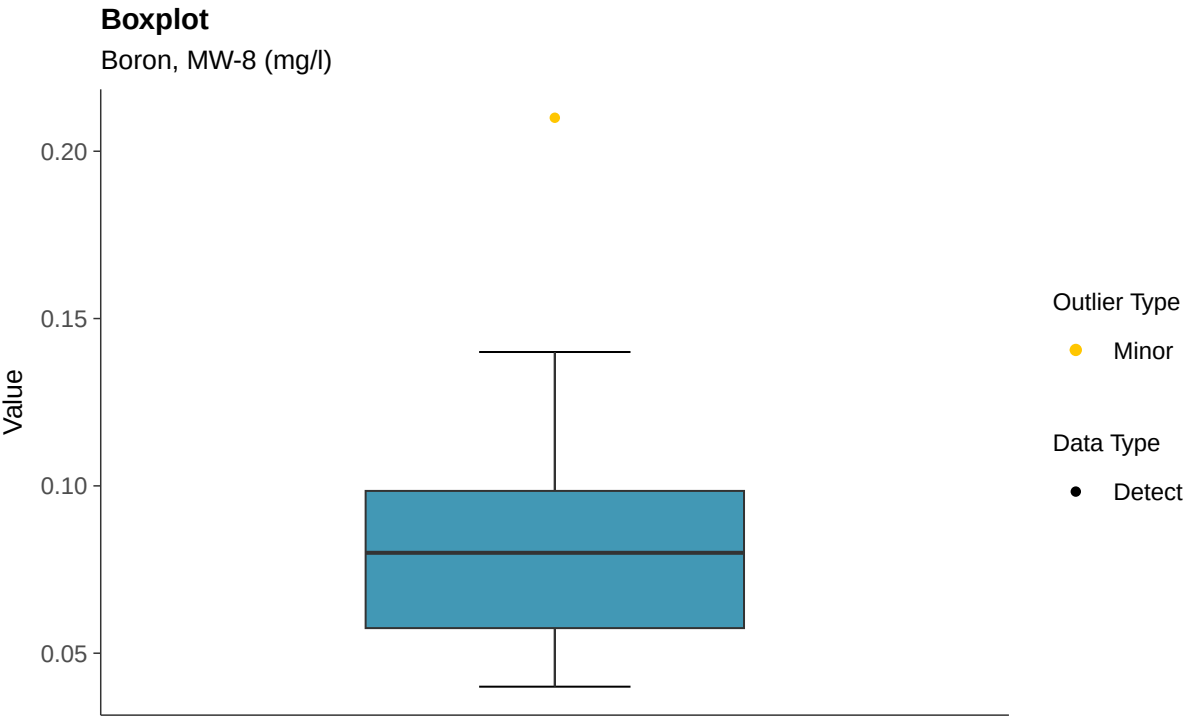




Appendix III: Boron, MW-8

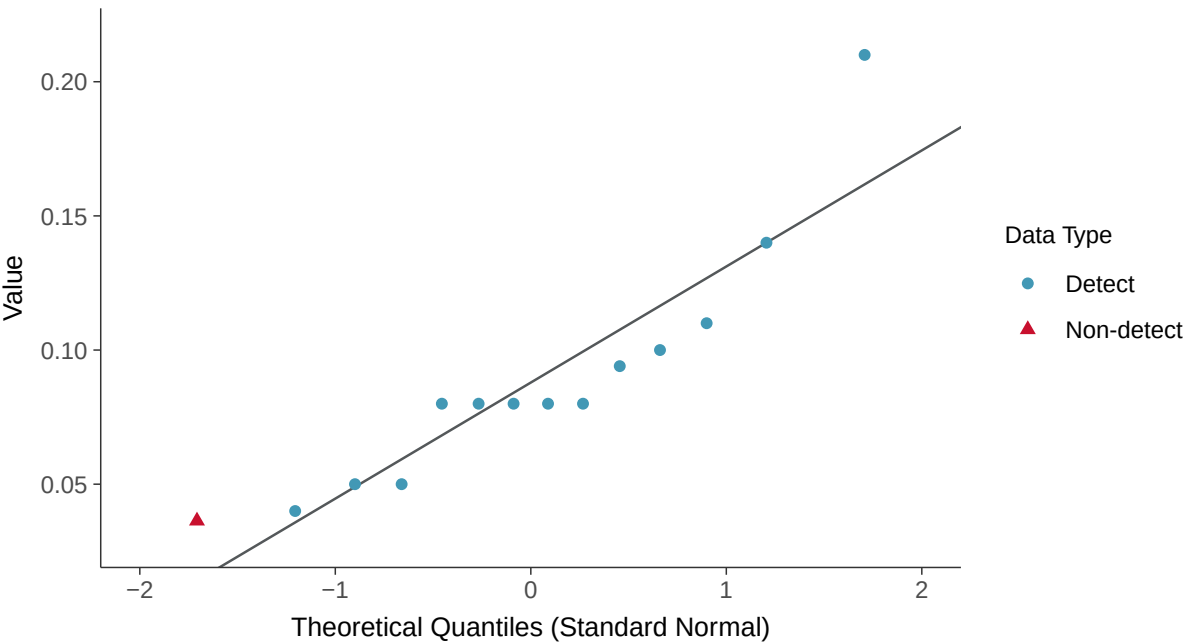
ID: 17_2_105



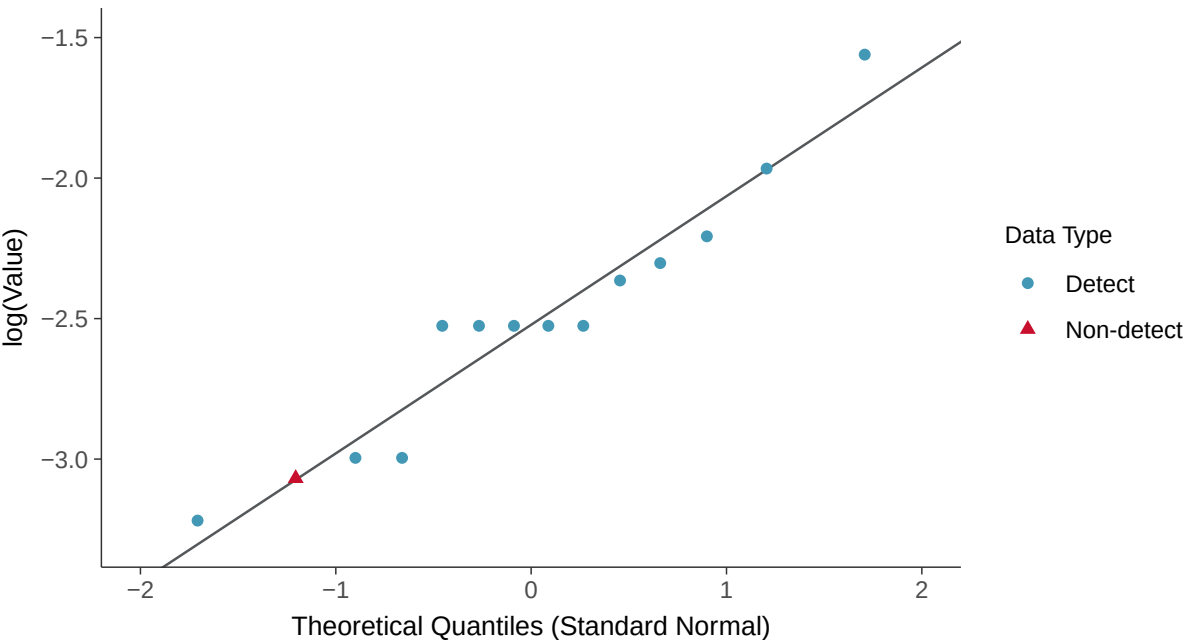




Normal Q-Q plot using ROS Imputed Estimates
Boron, MW-8 (mg/l)



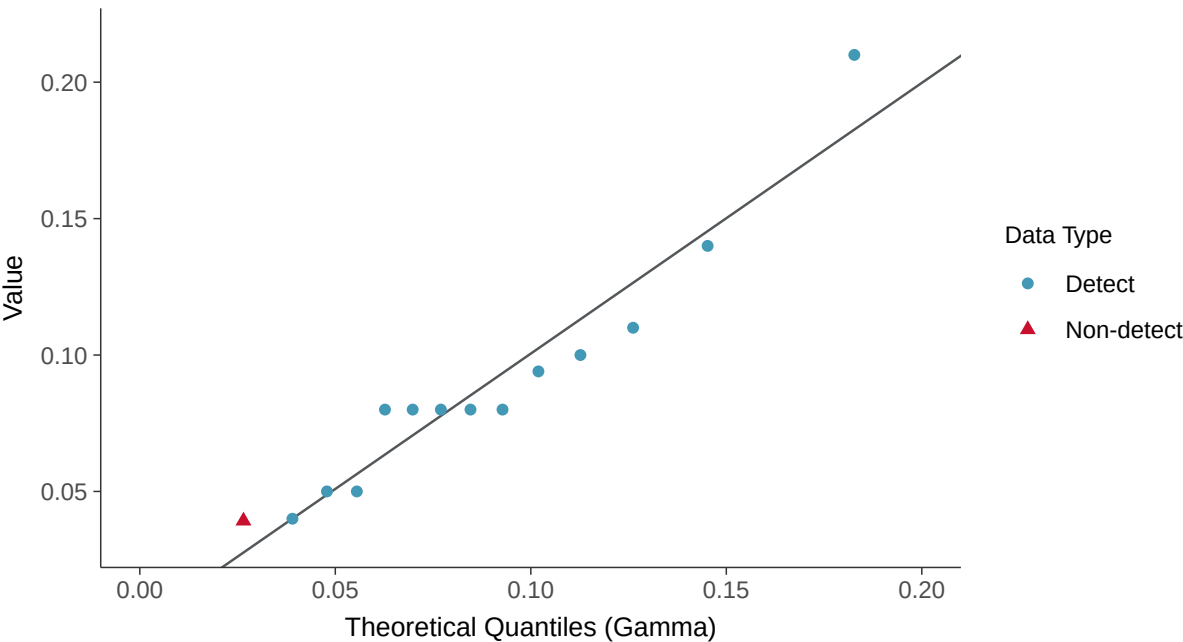
Lognormal Q-Q plot using ROS Imputed Estimates
Boron, MW-8 (mg/l)





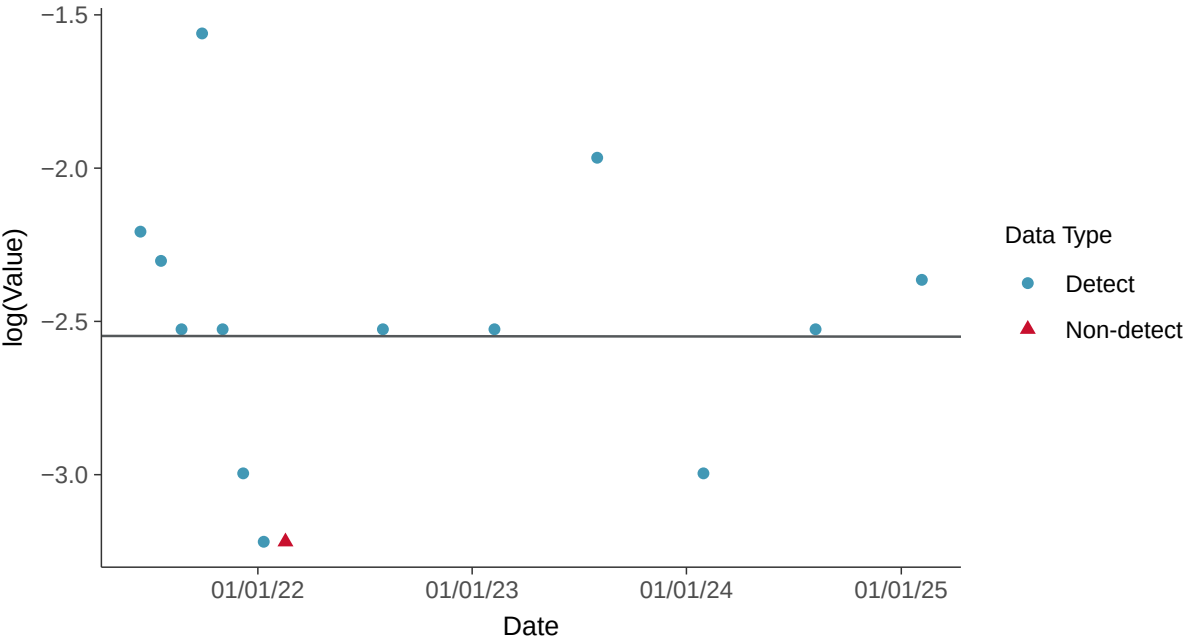
Gamma Q-Q plot using ROS Imputed Estimates

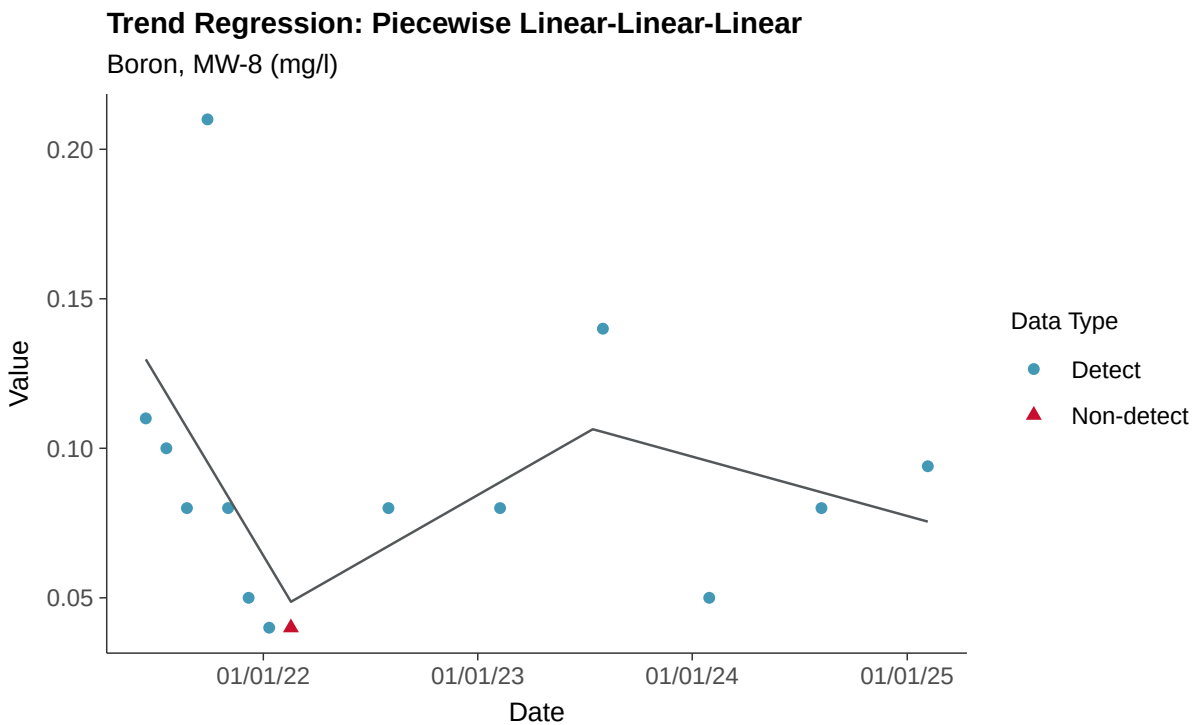
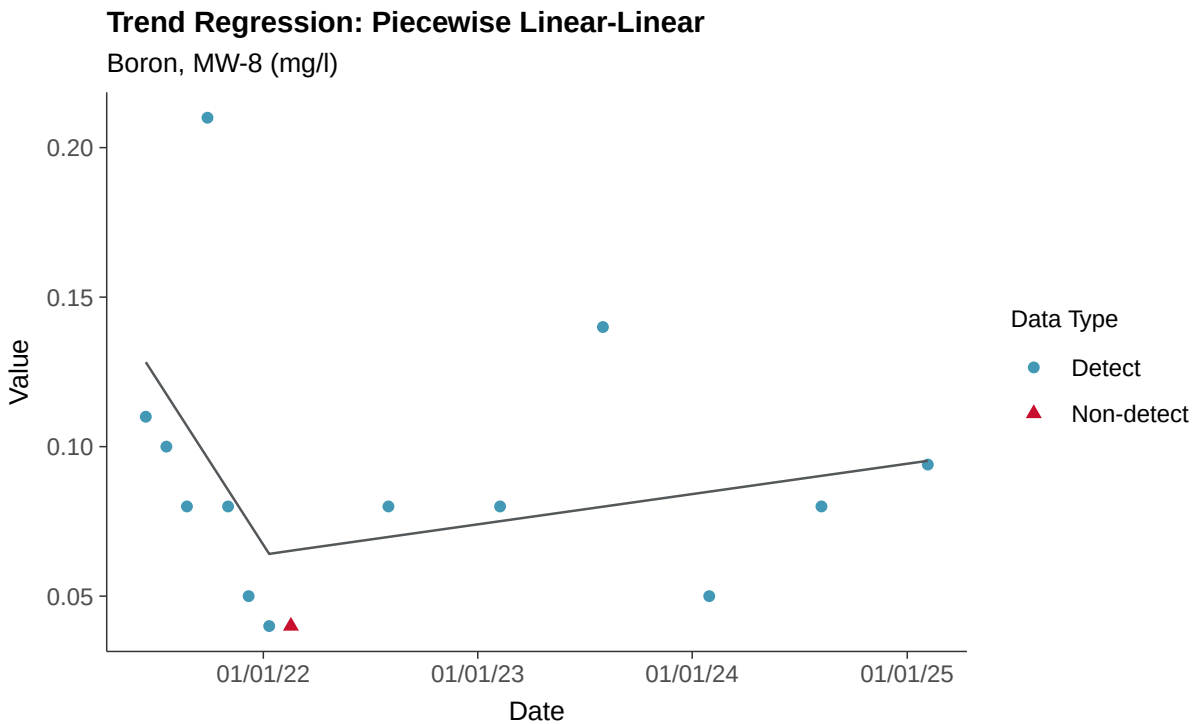
Boron, MW-8 (mg/l)



Trend Regression: Lognormal MLE

Boron, MW-8 (mg/l)

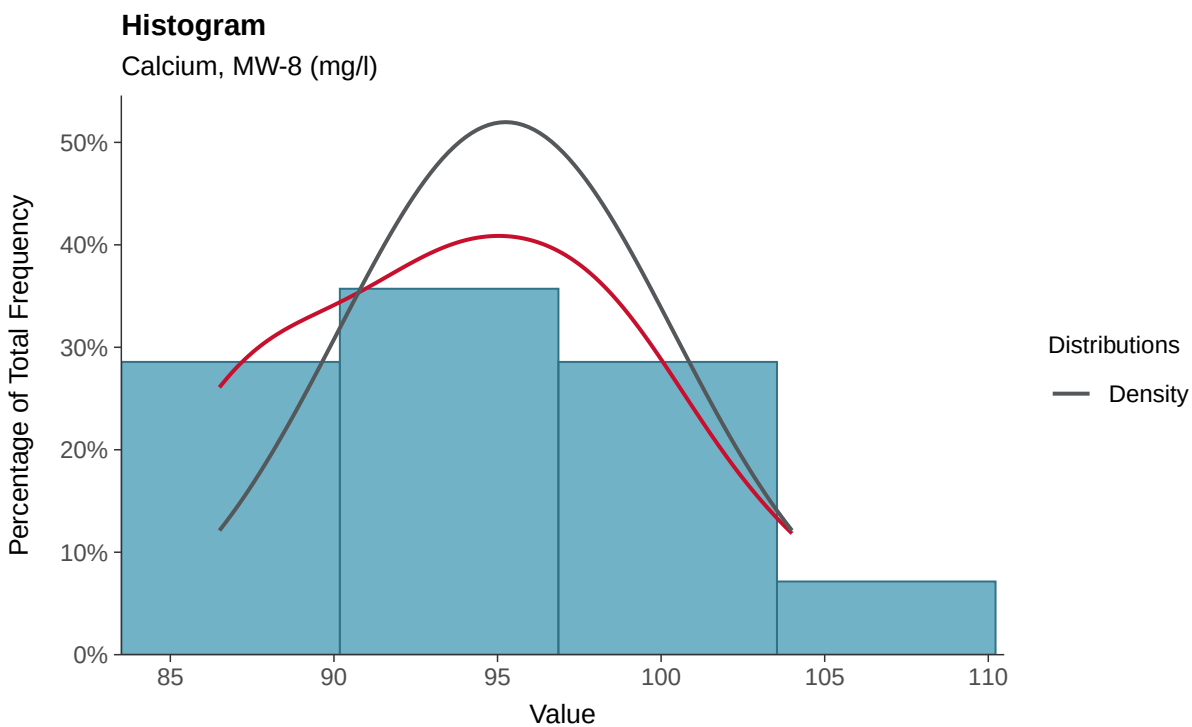
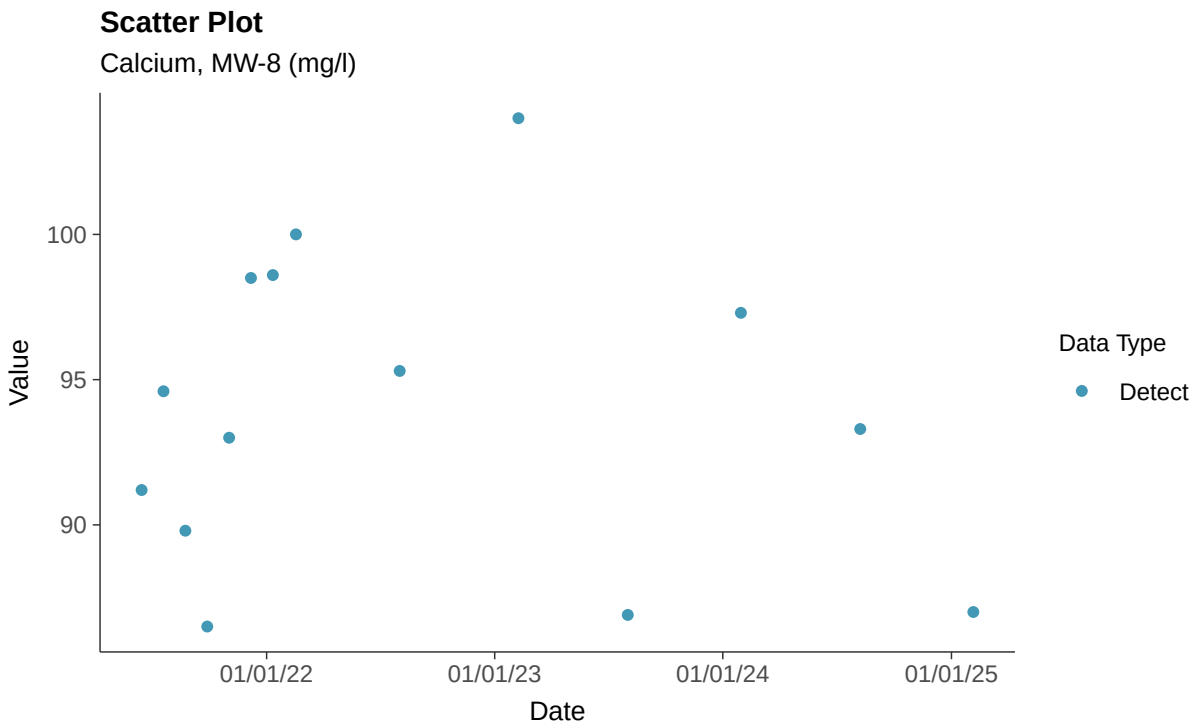


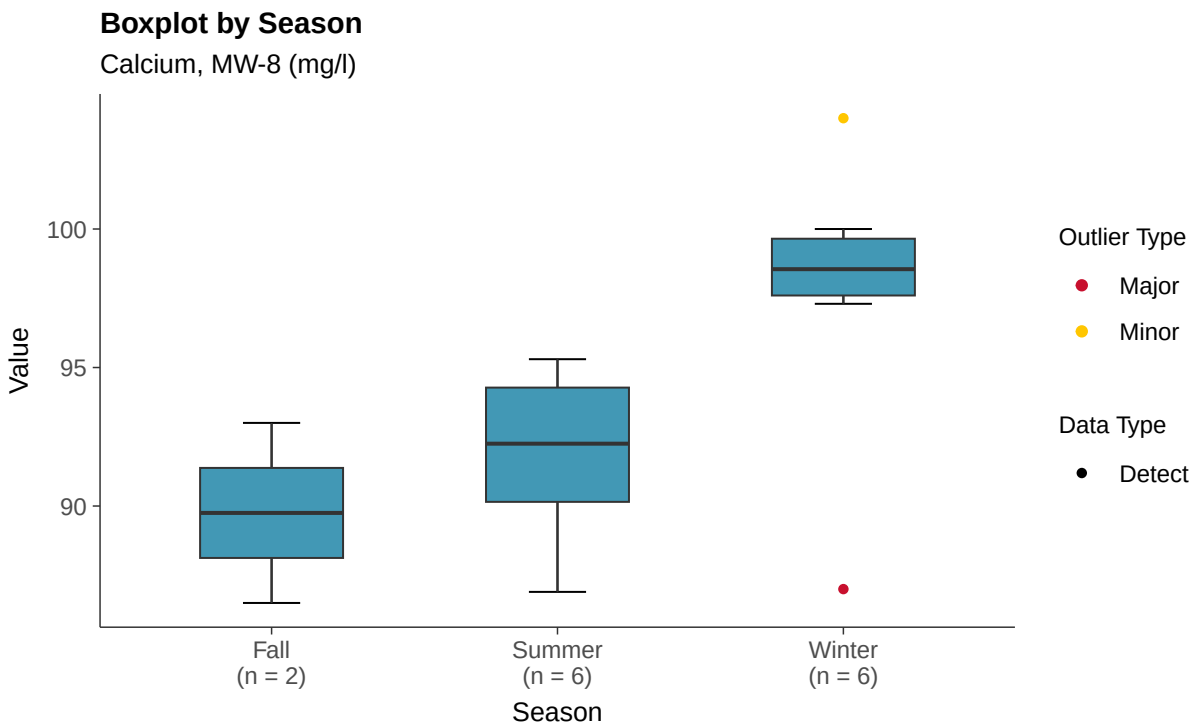
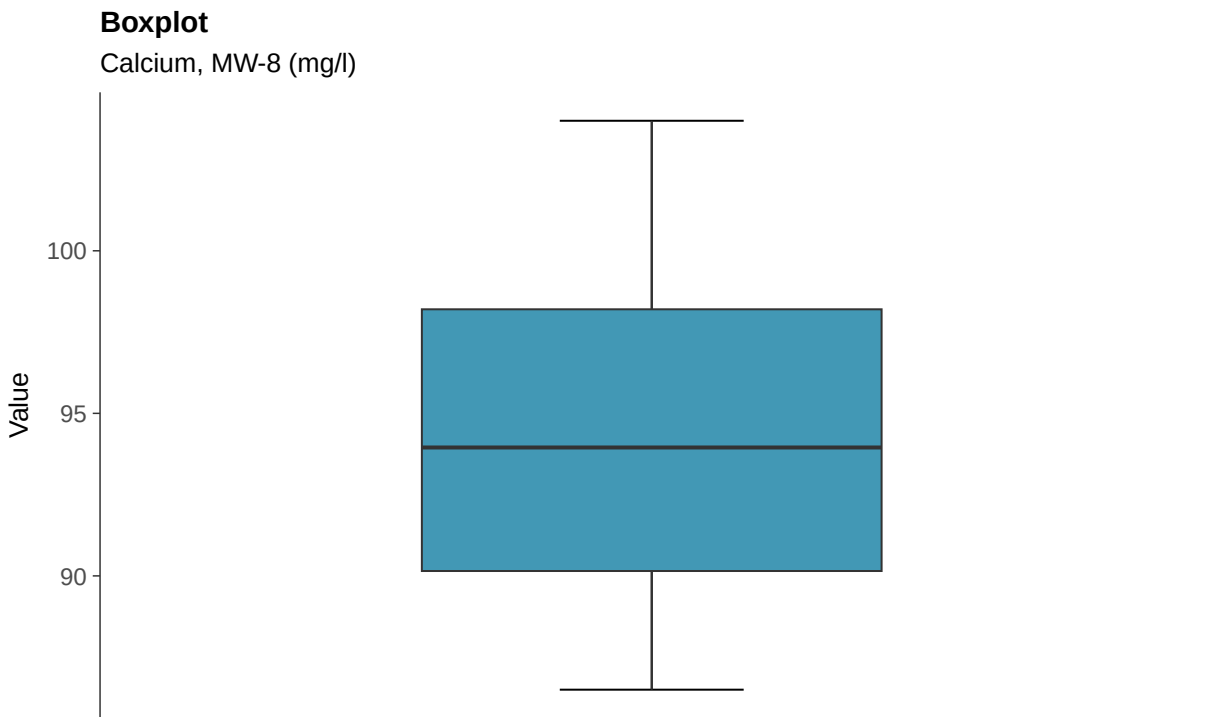


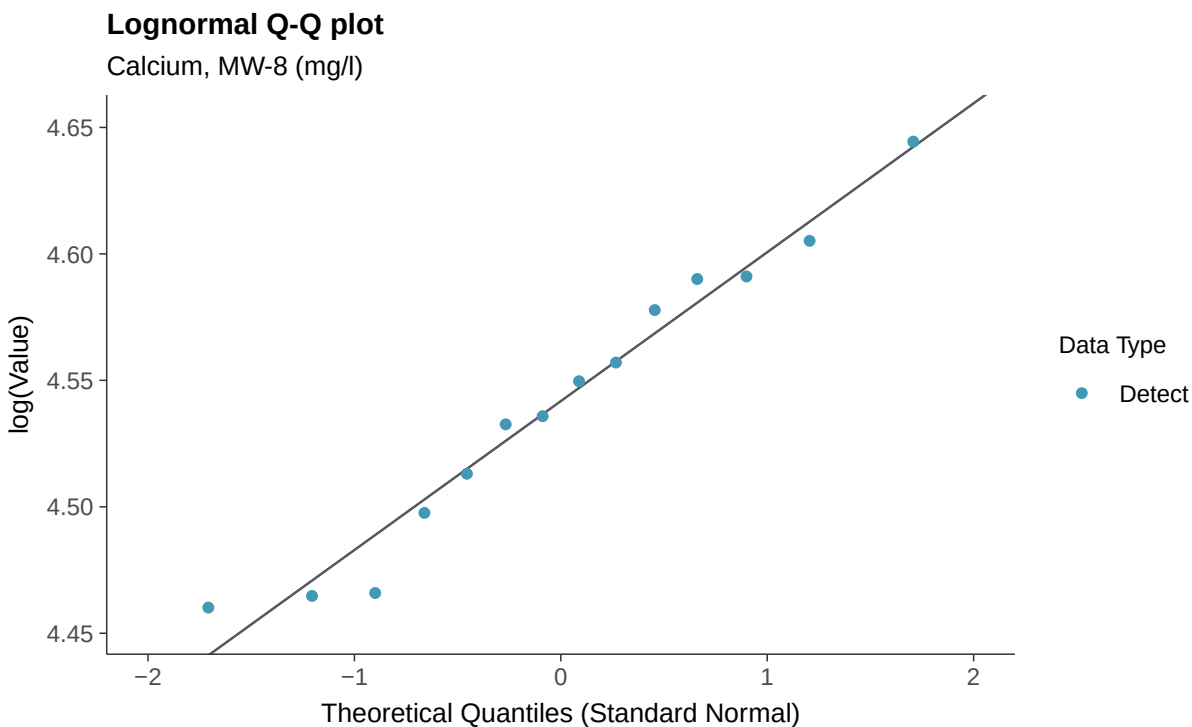
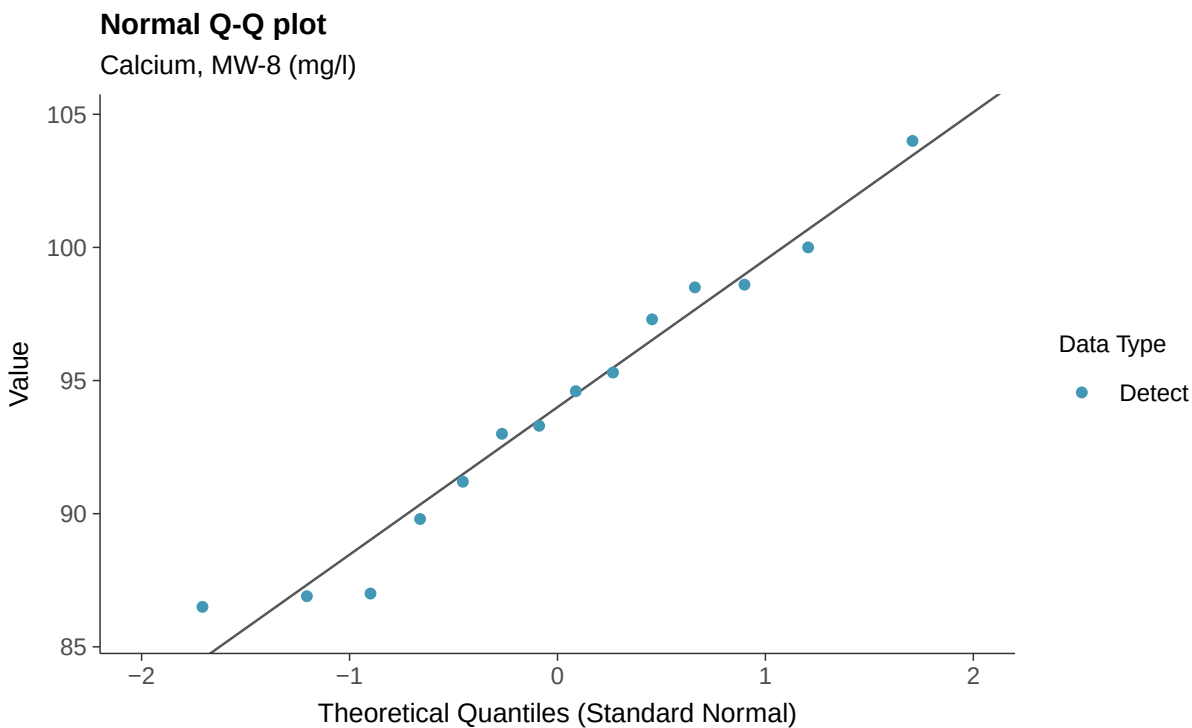


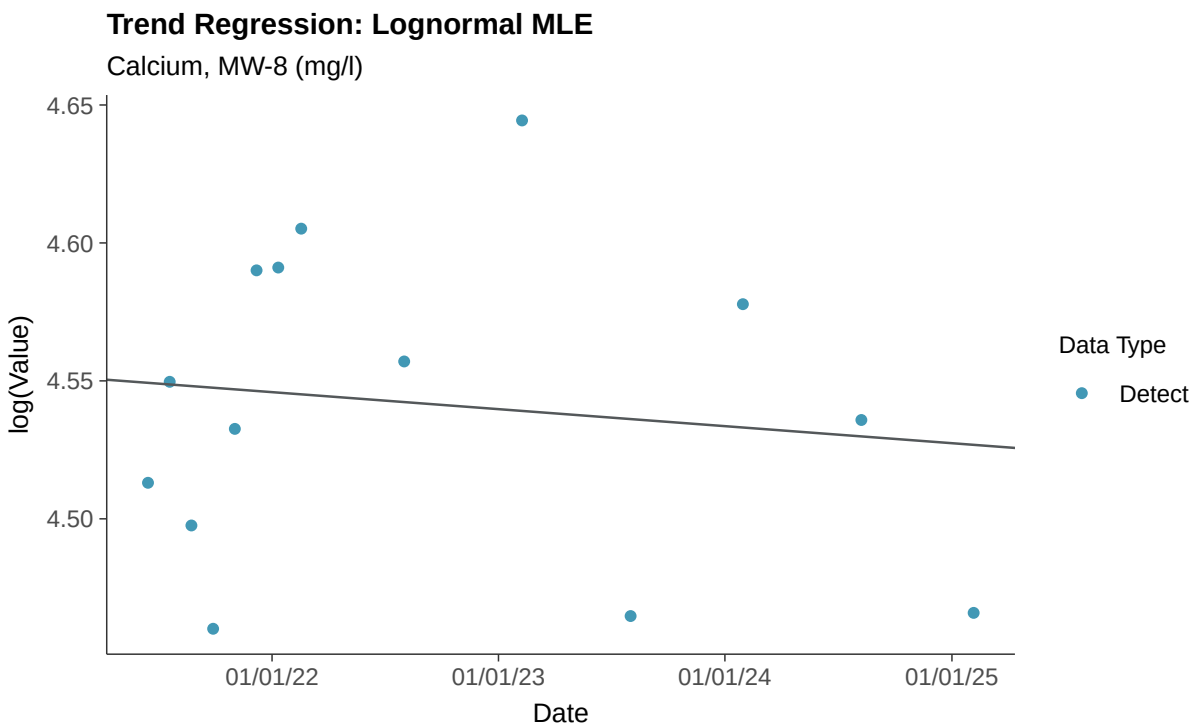
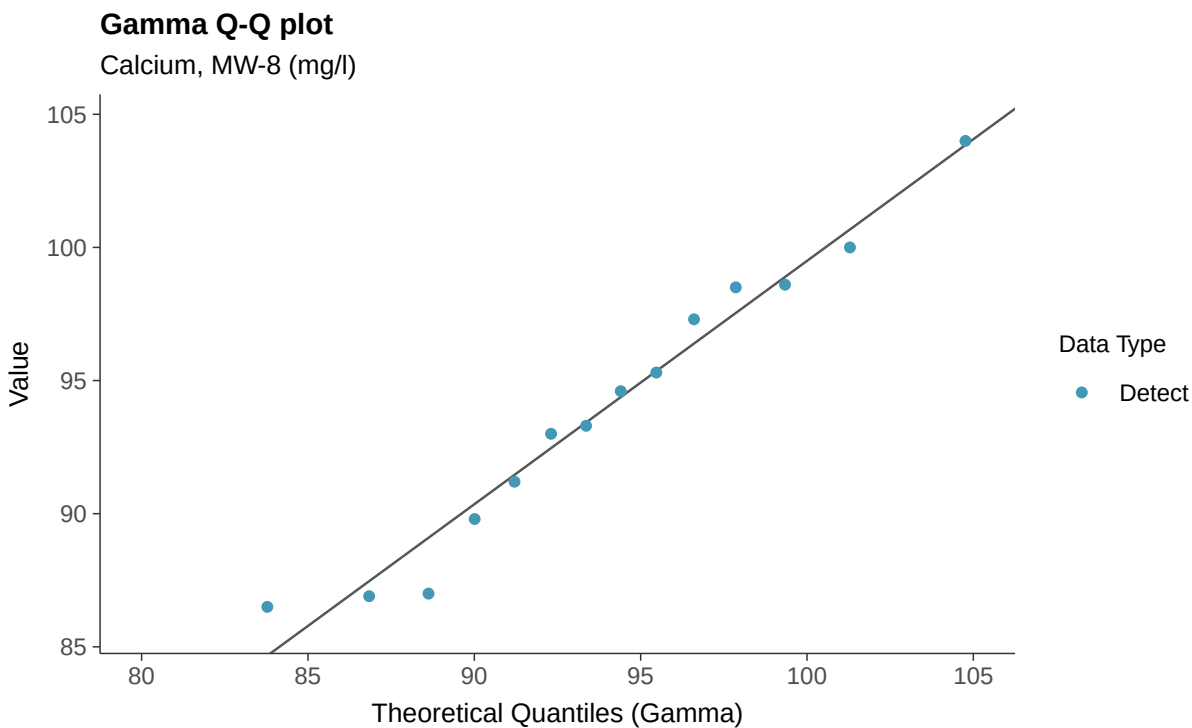
Appendix III: Calcium, MW-8

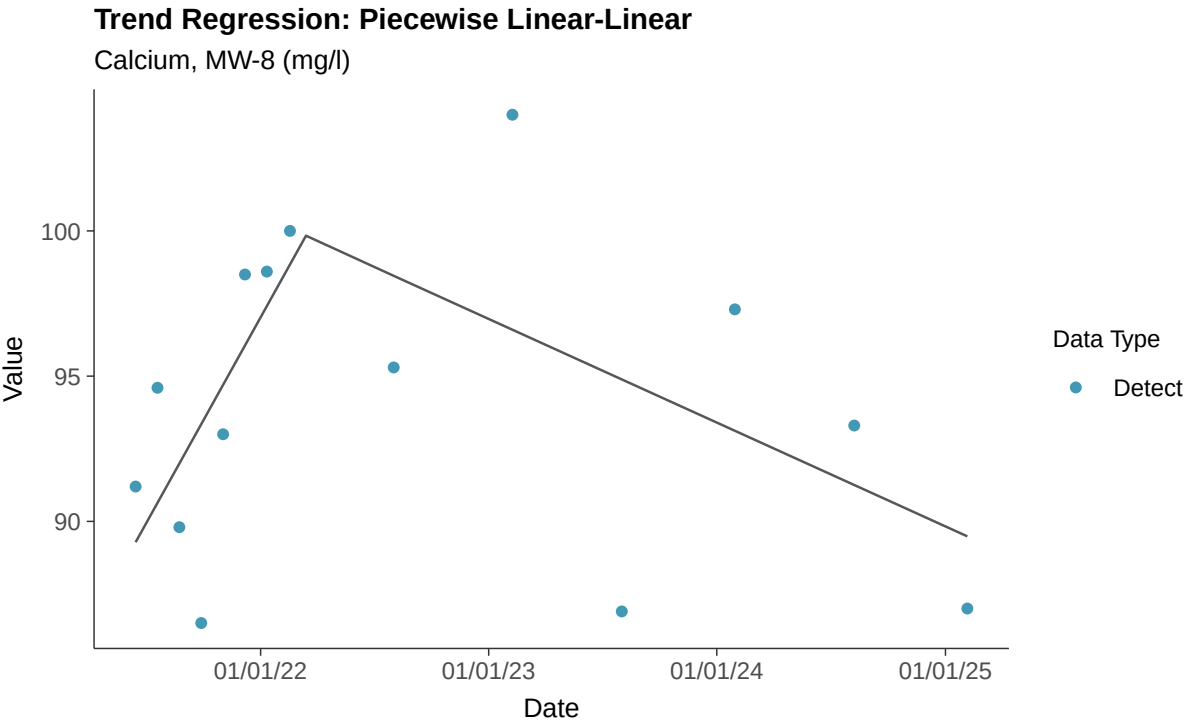
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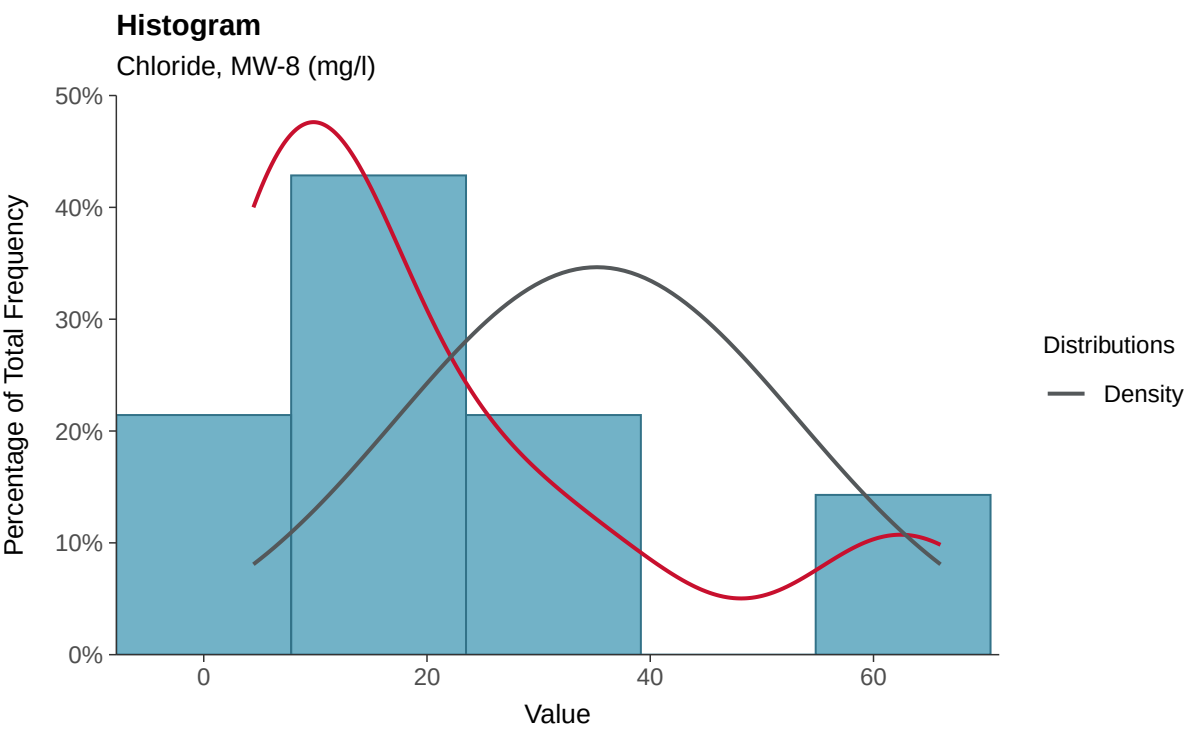
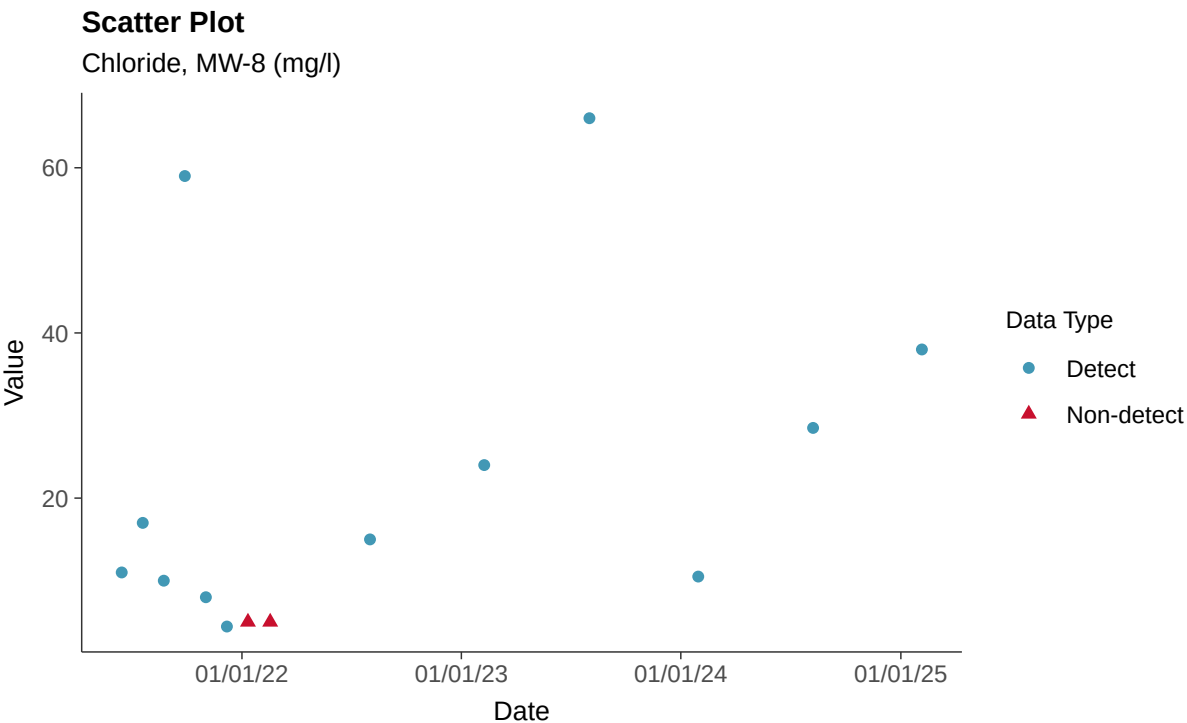


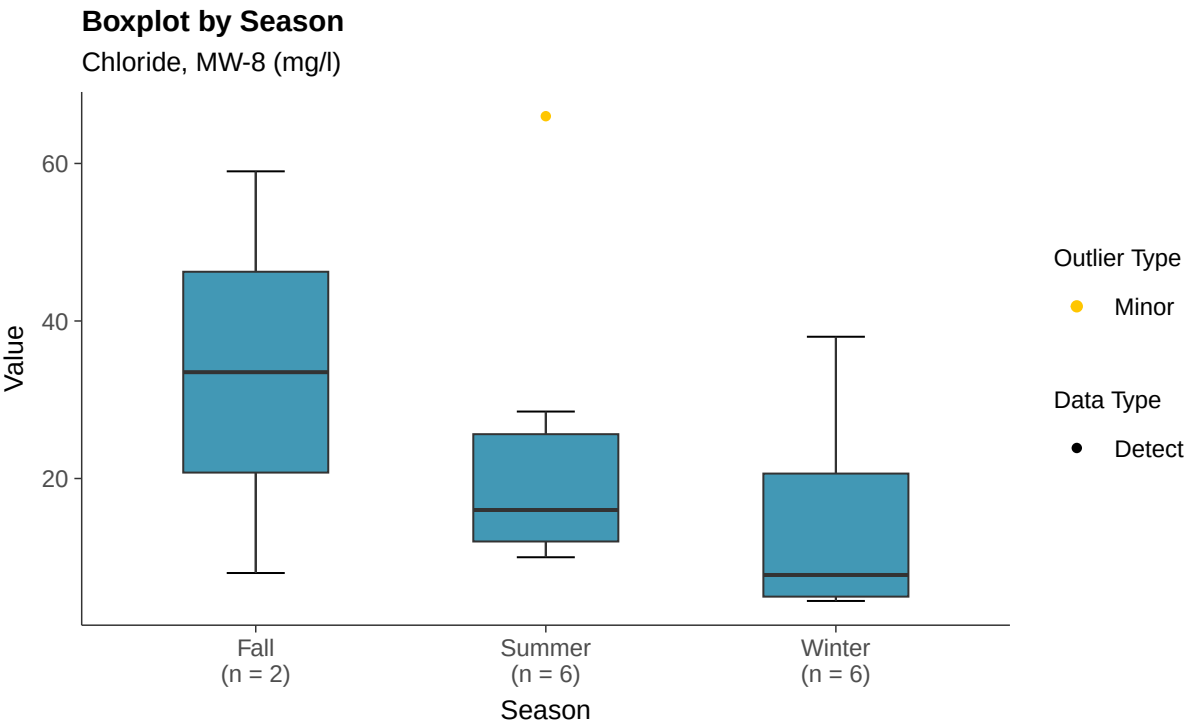
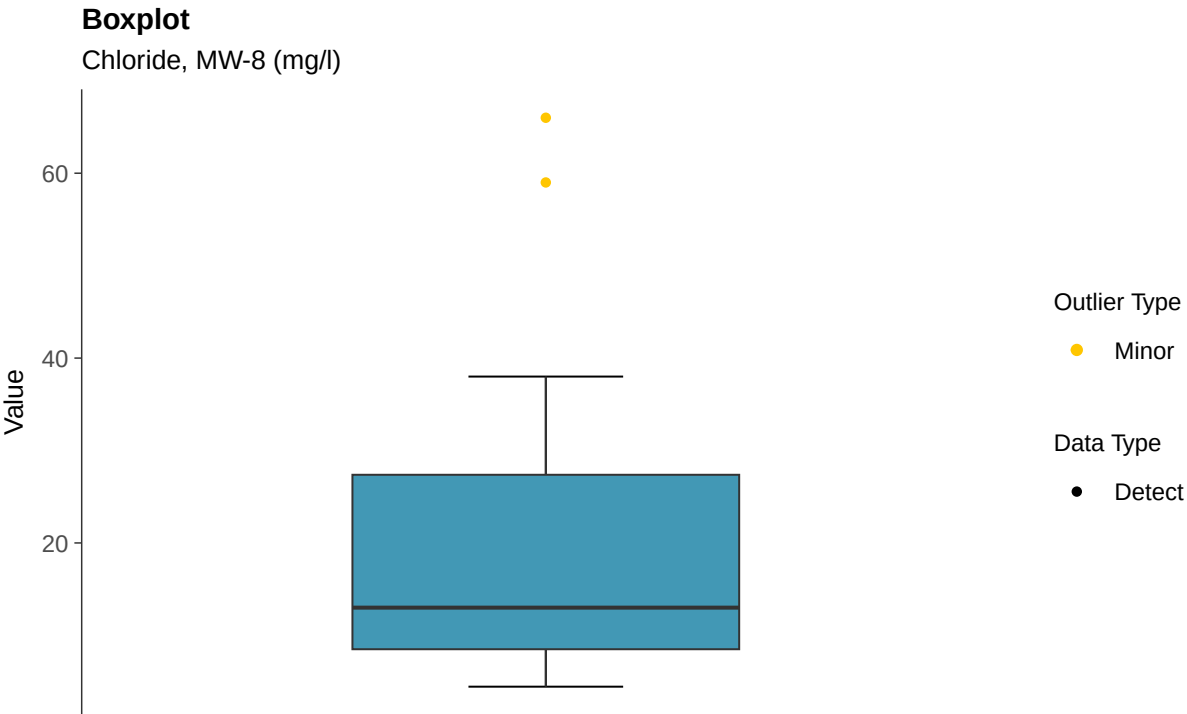


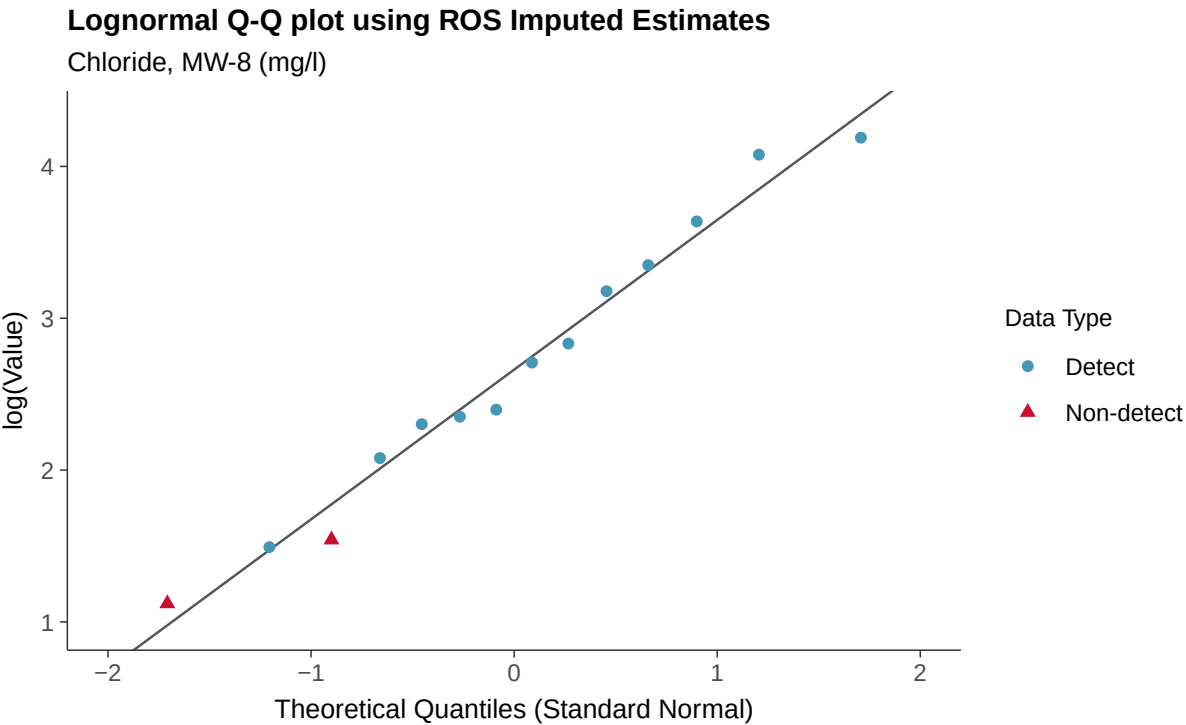
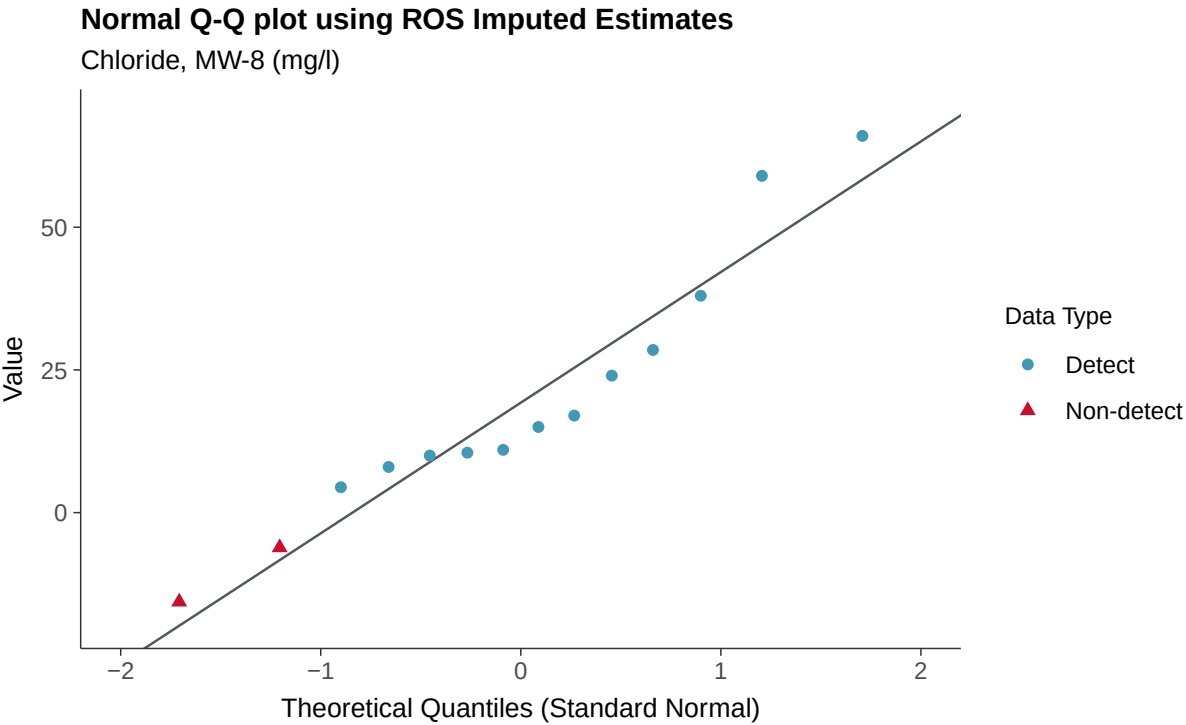


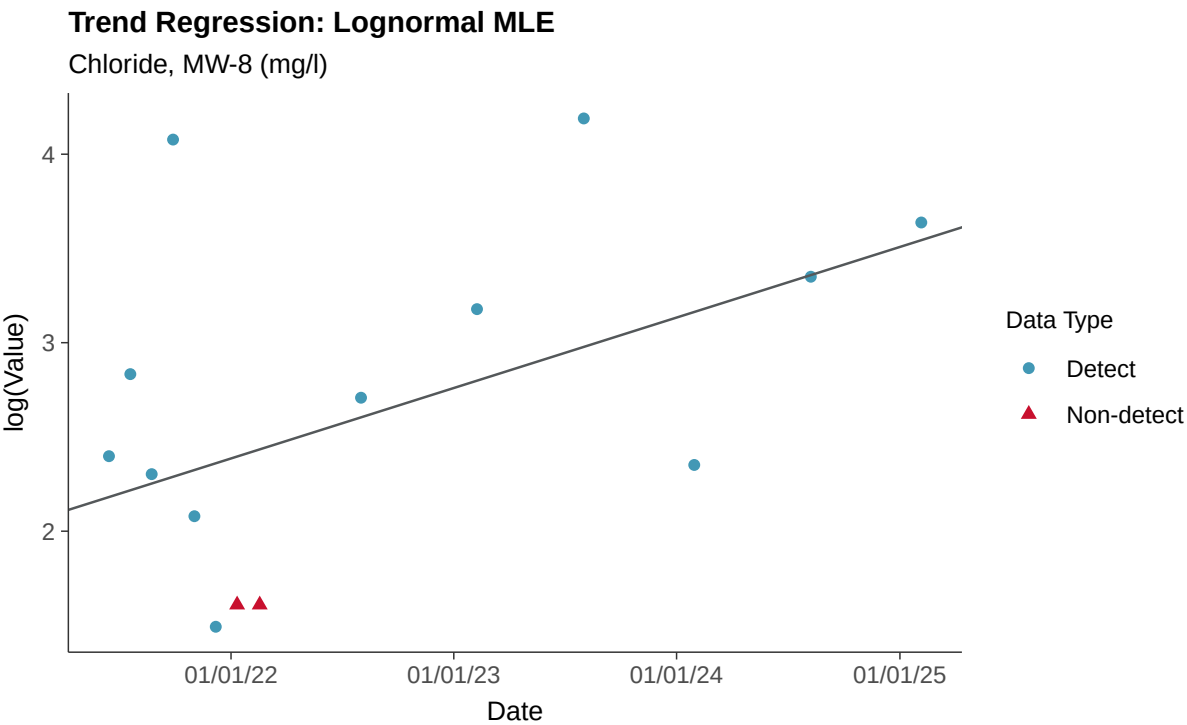
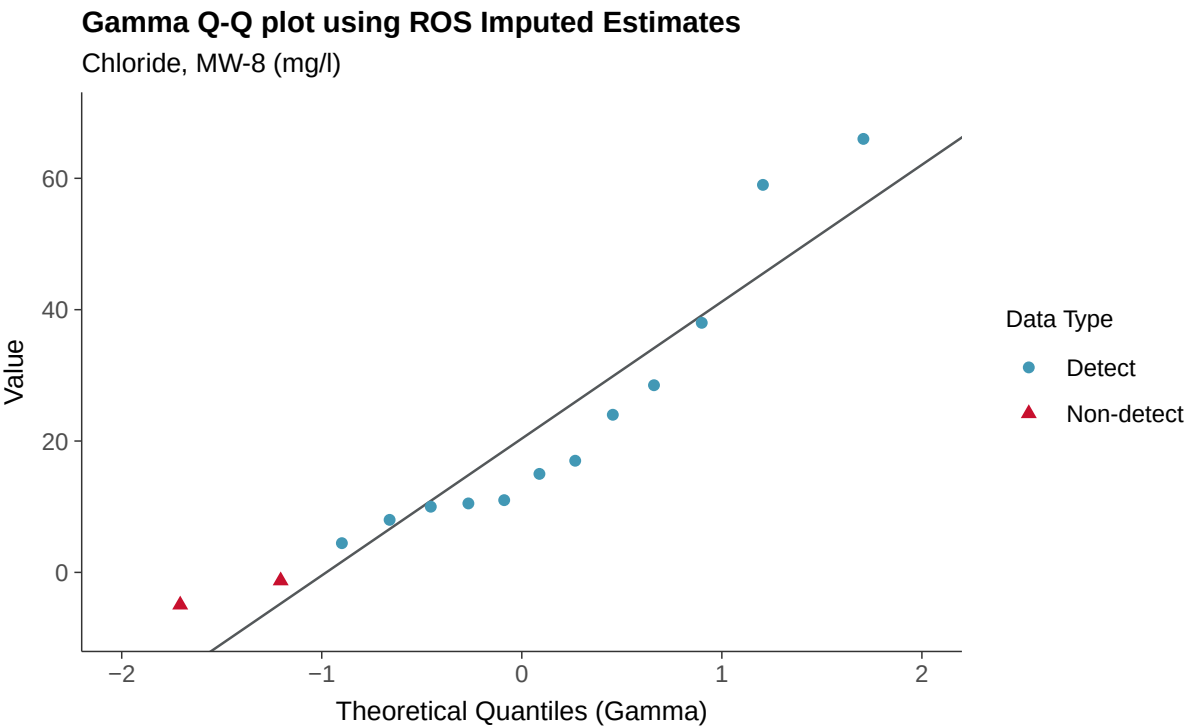
Appendix III: Chloride, MW-8

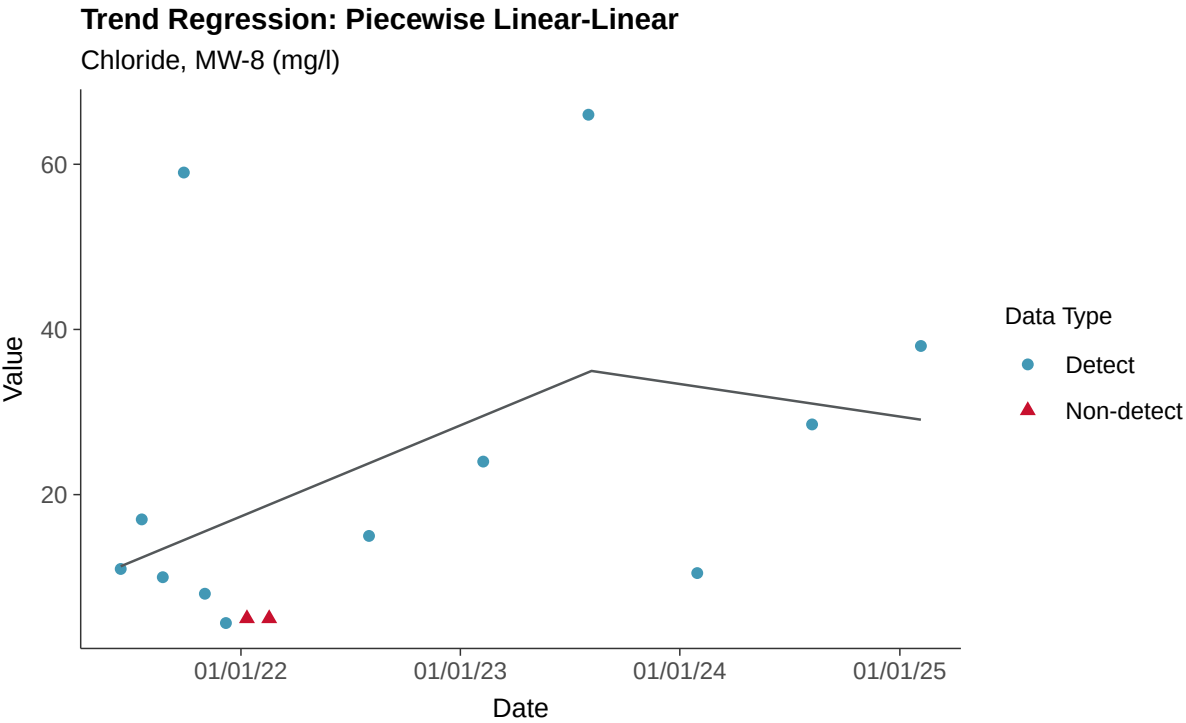
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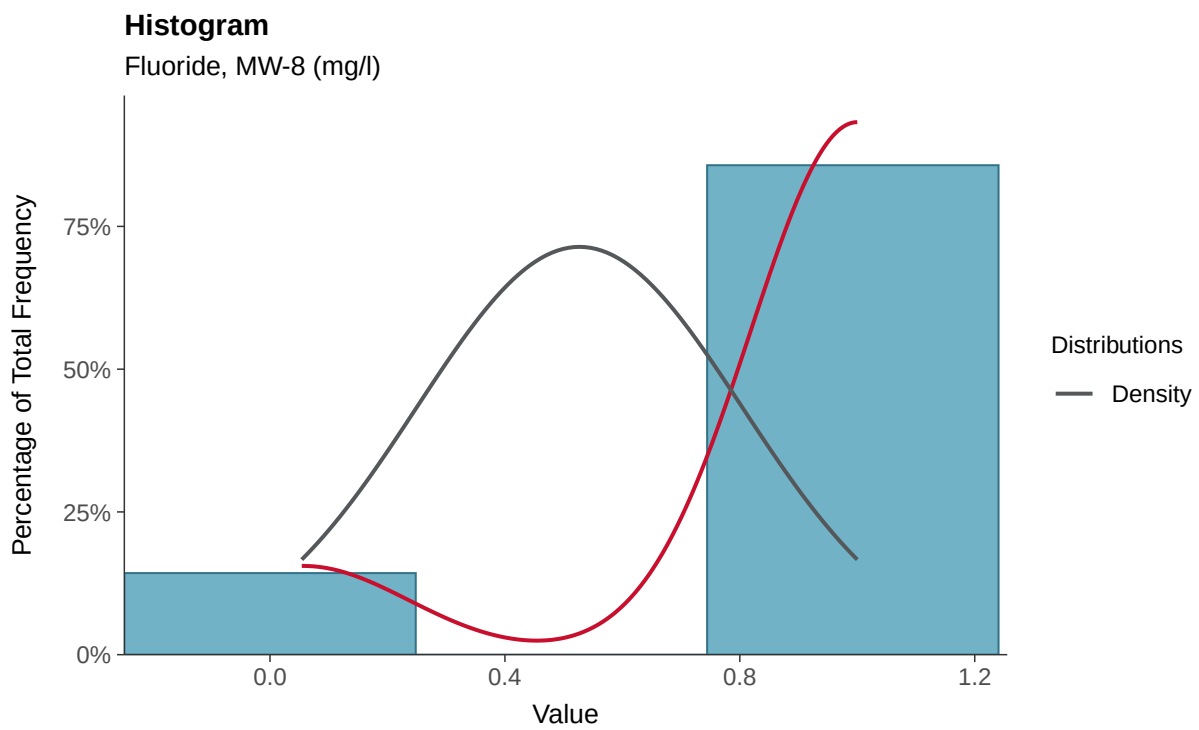


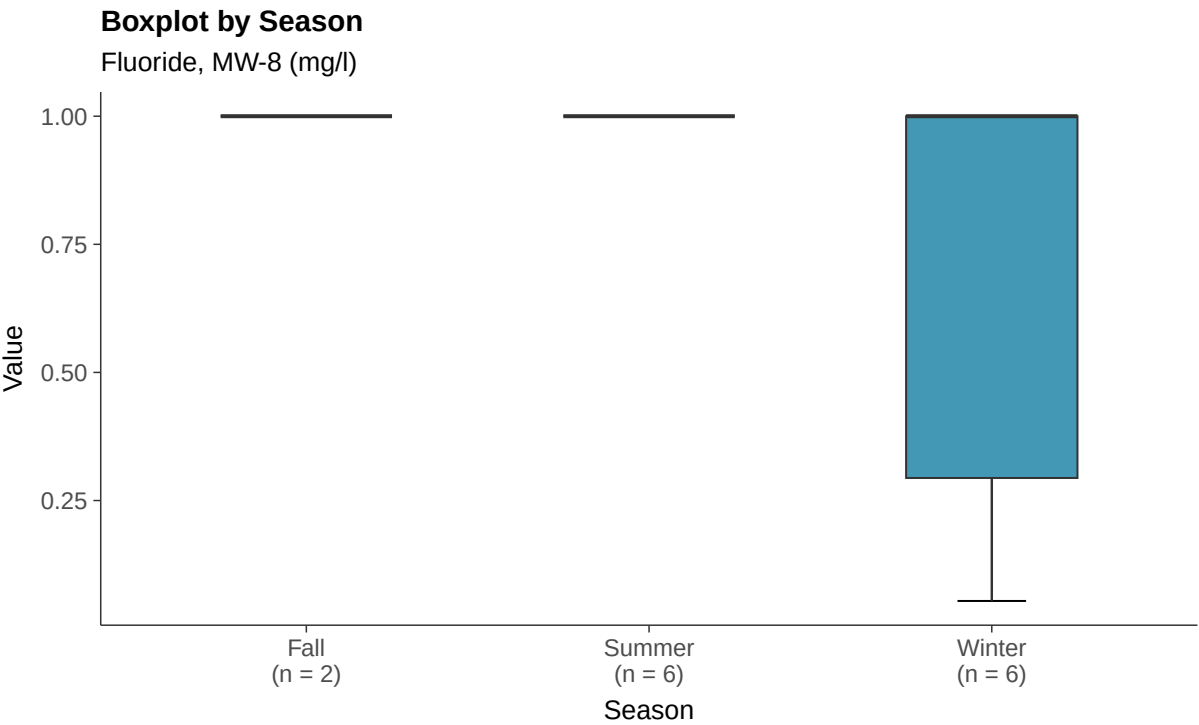
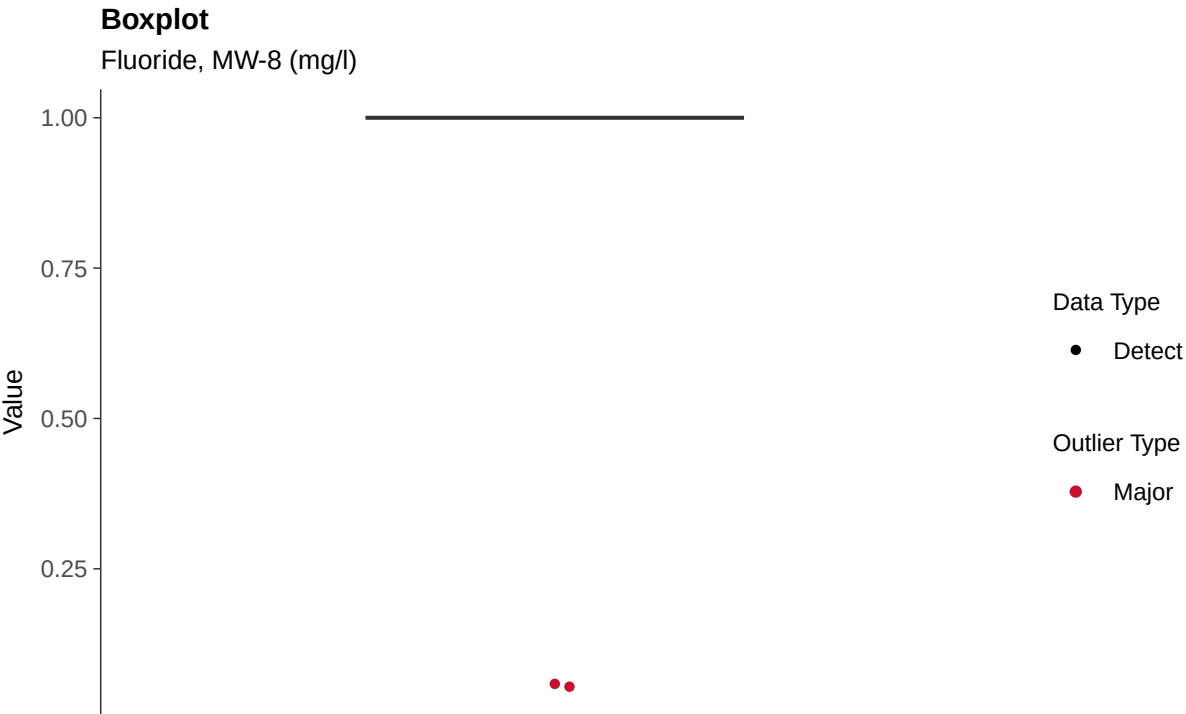




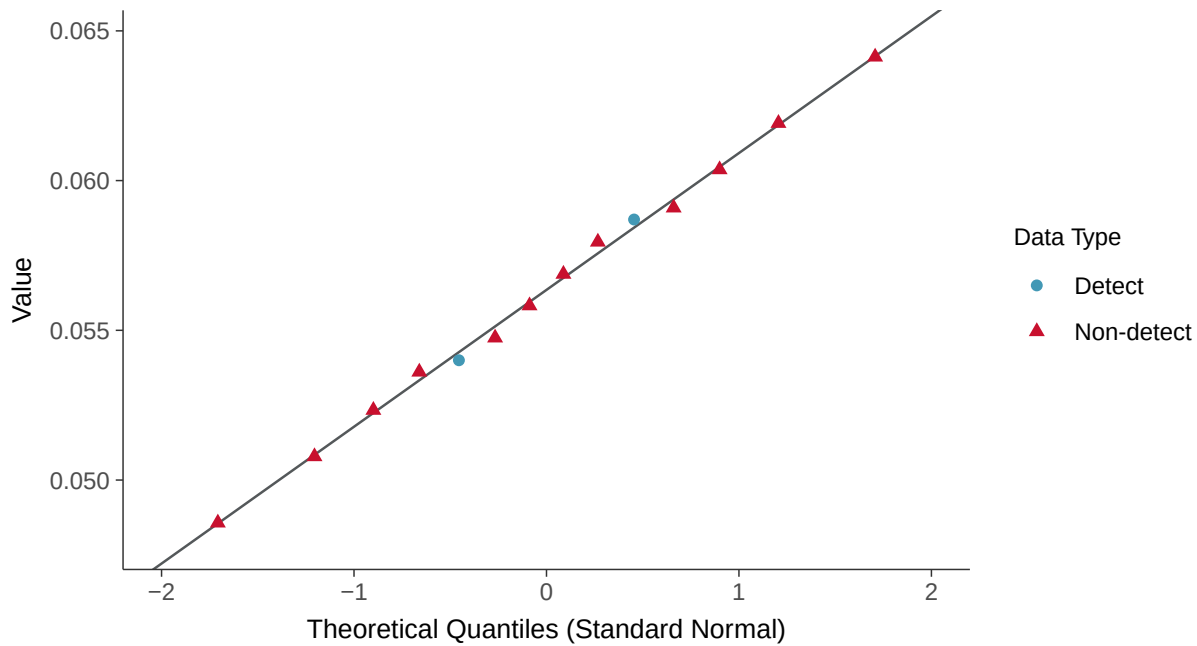






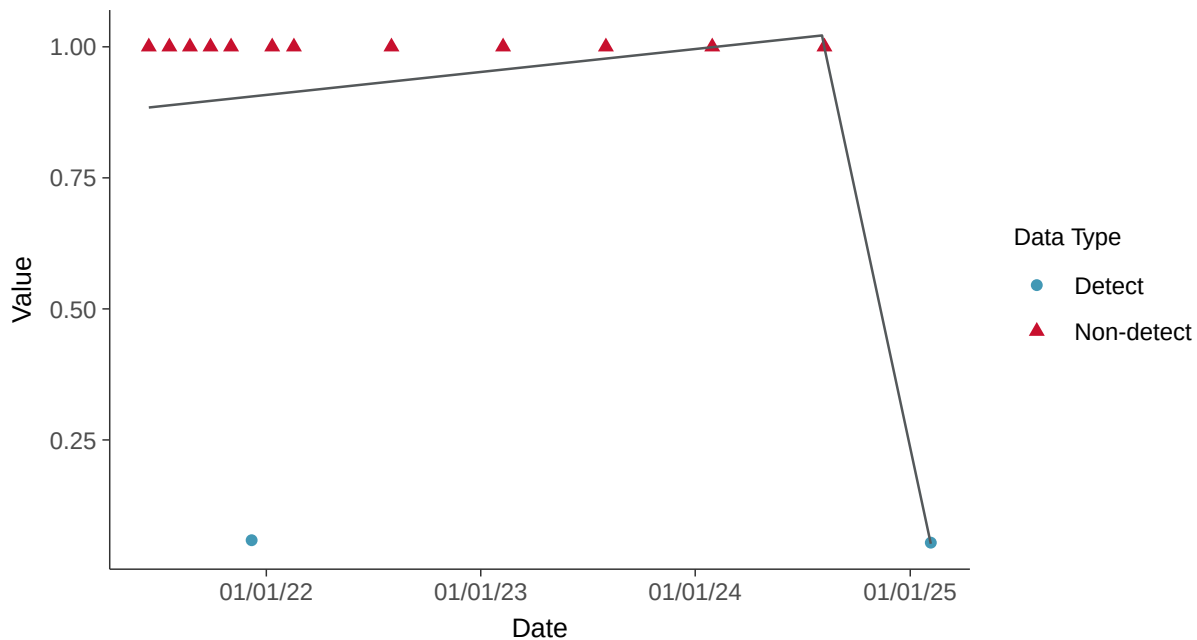


Fluoride, MW-8 (mg/l)



Trend Regression: Piecewise Linear-Linear

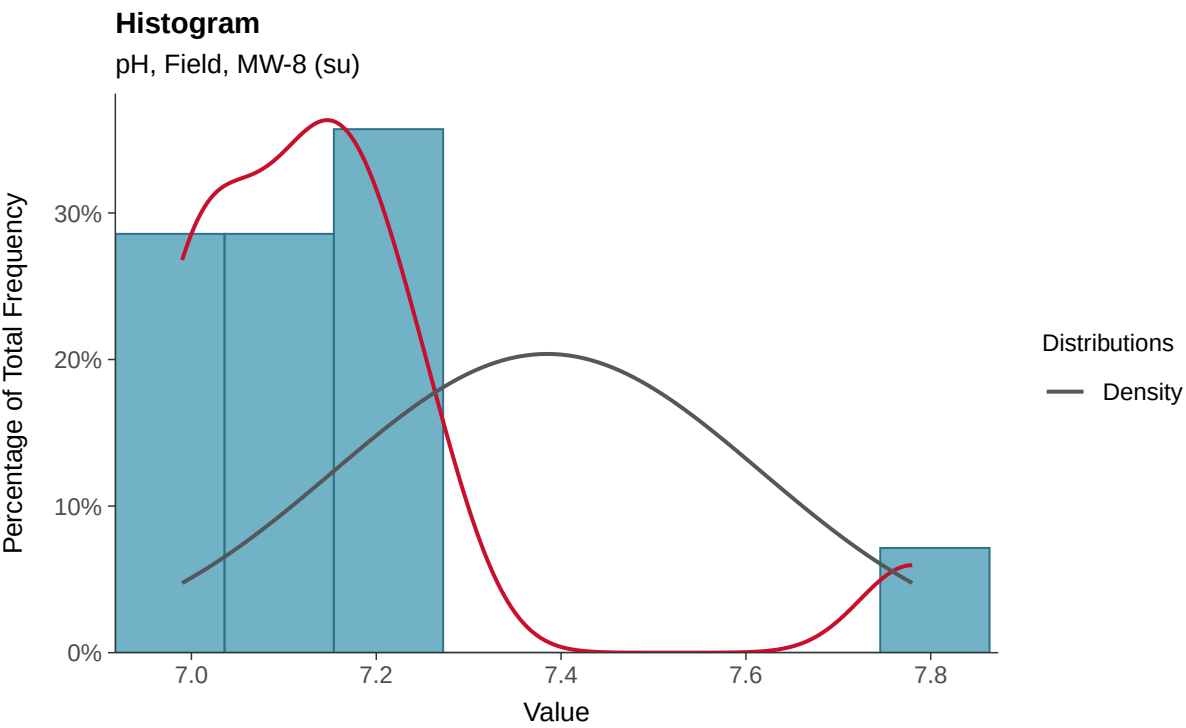
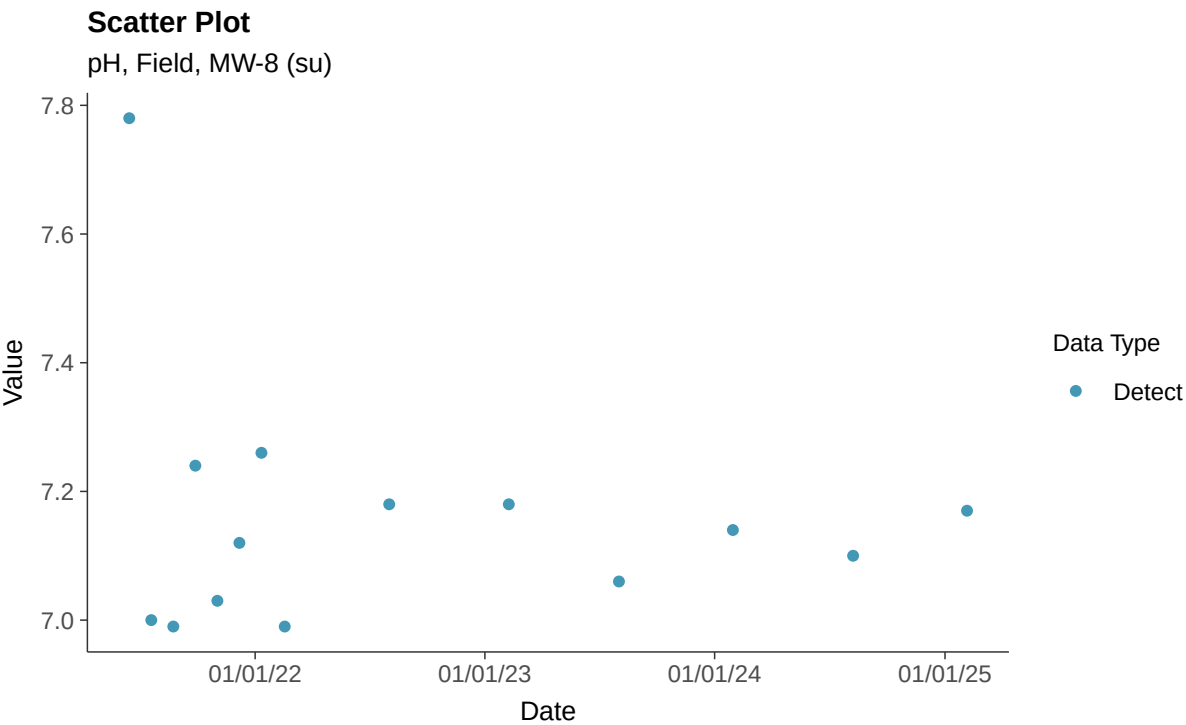
Fluoride, MW-8 (mg/l)

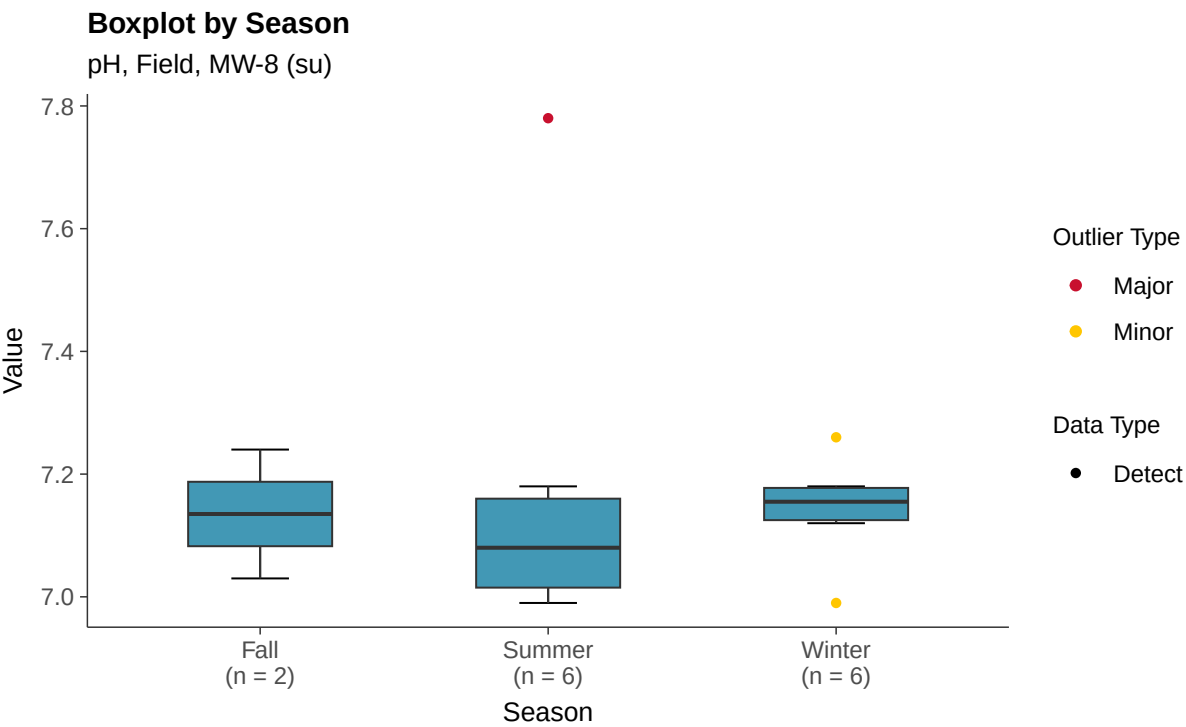
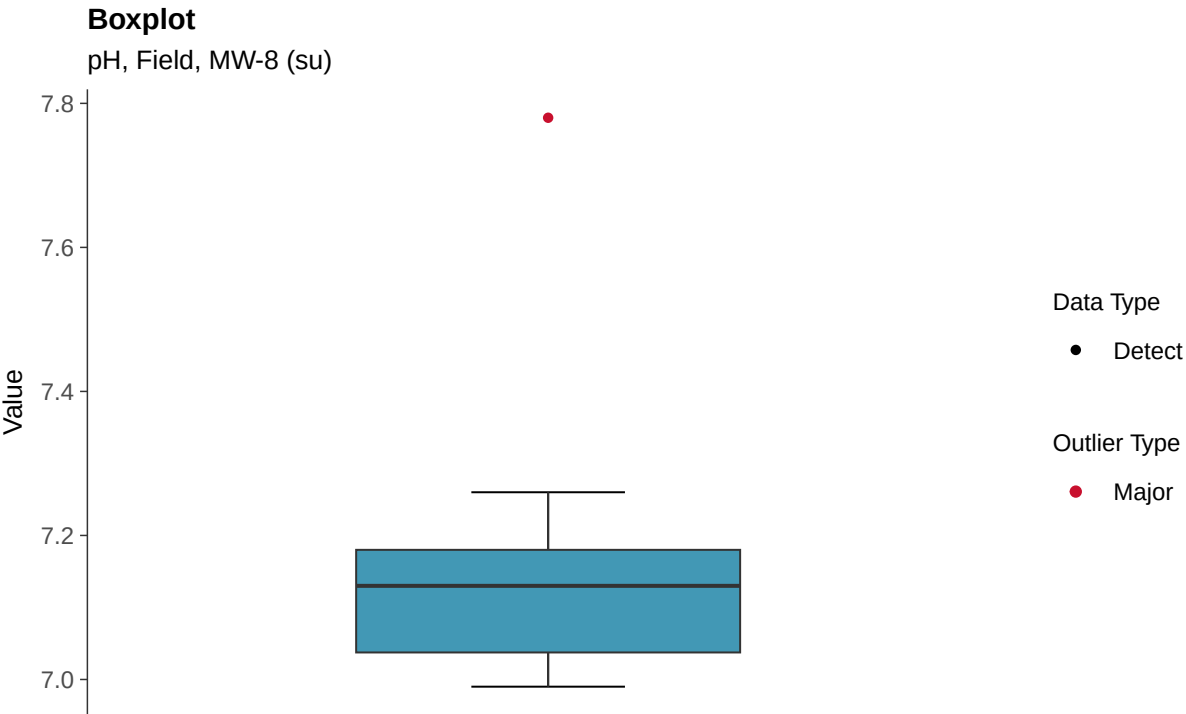


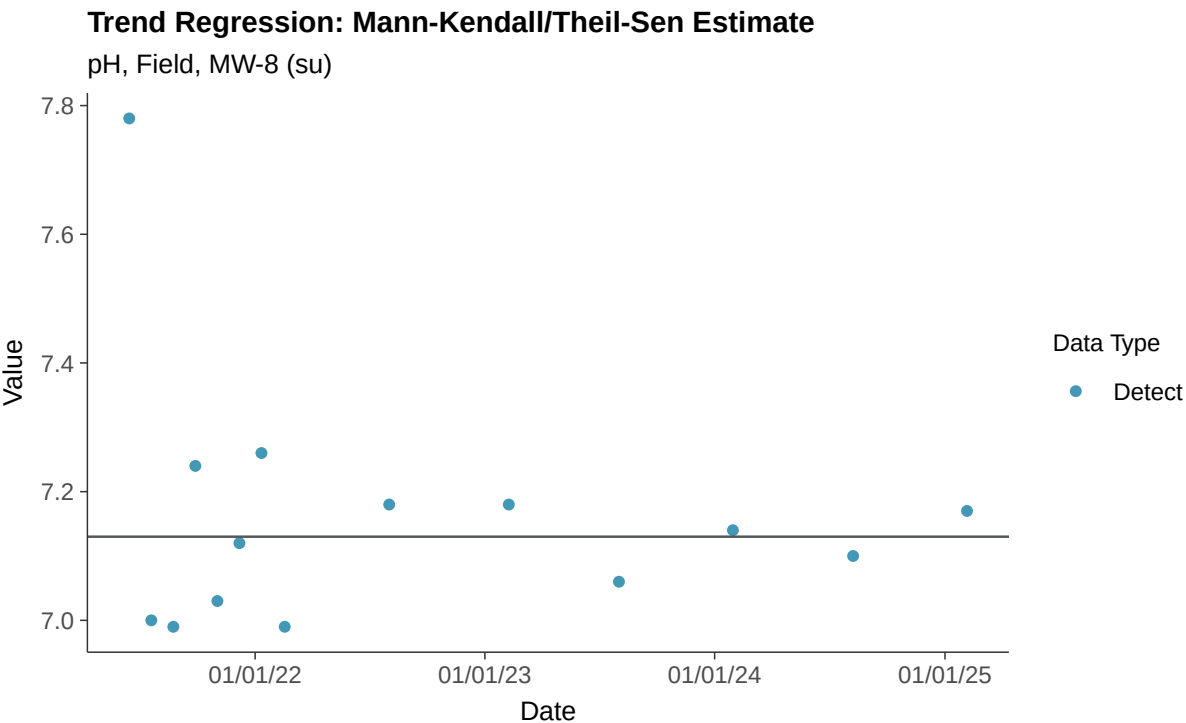
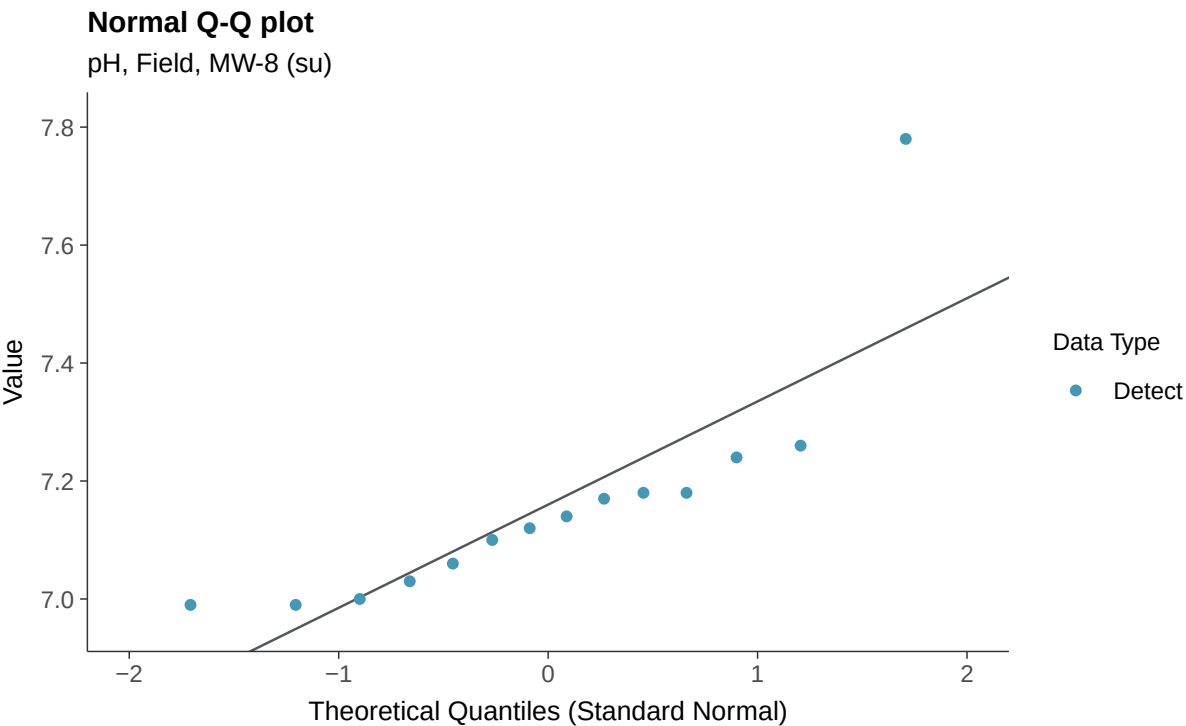


Appendix III: pH, Field, MW-8

ID: 17_2_120



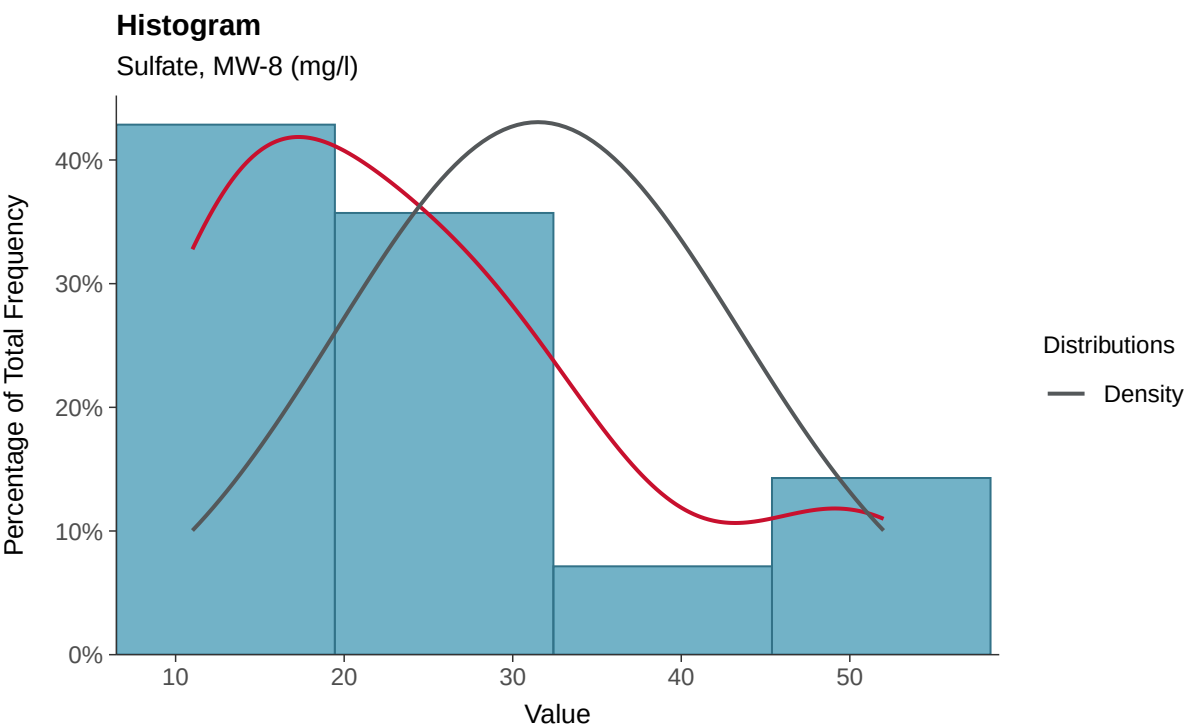
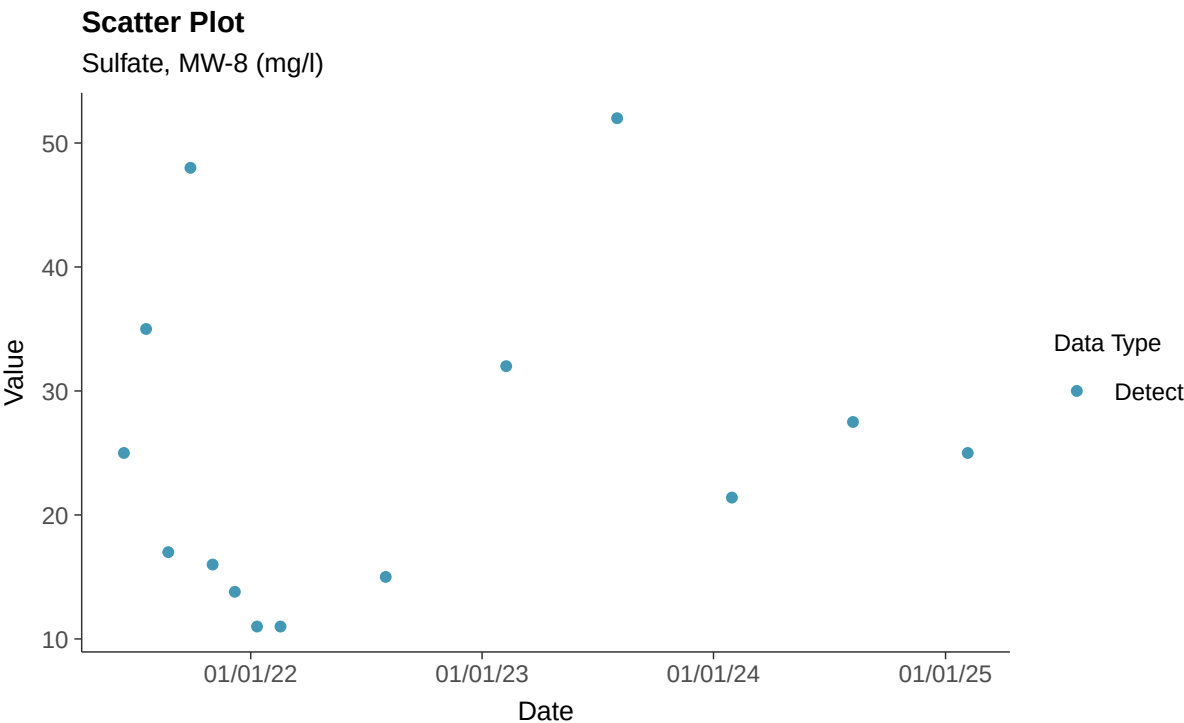


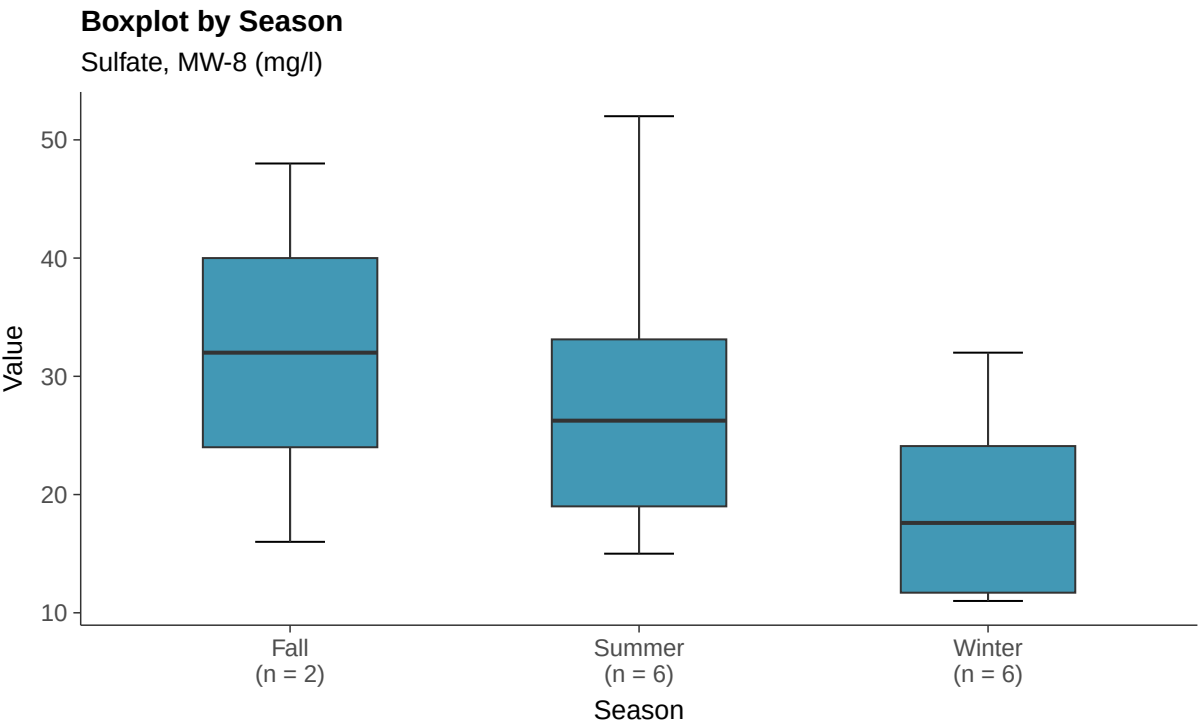
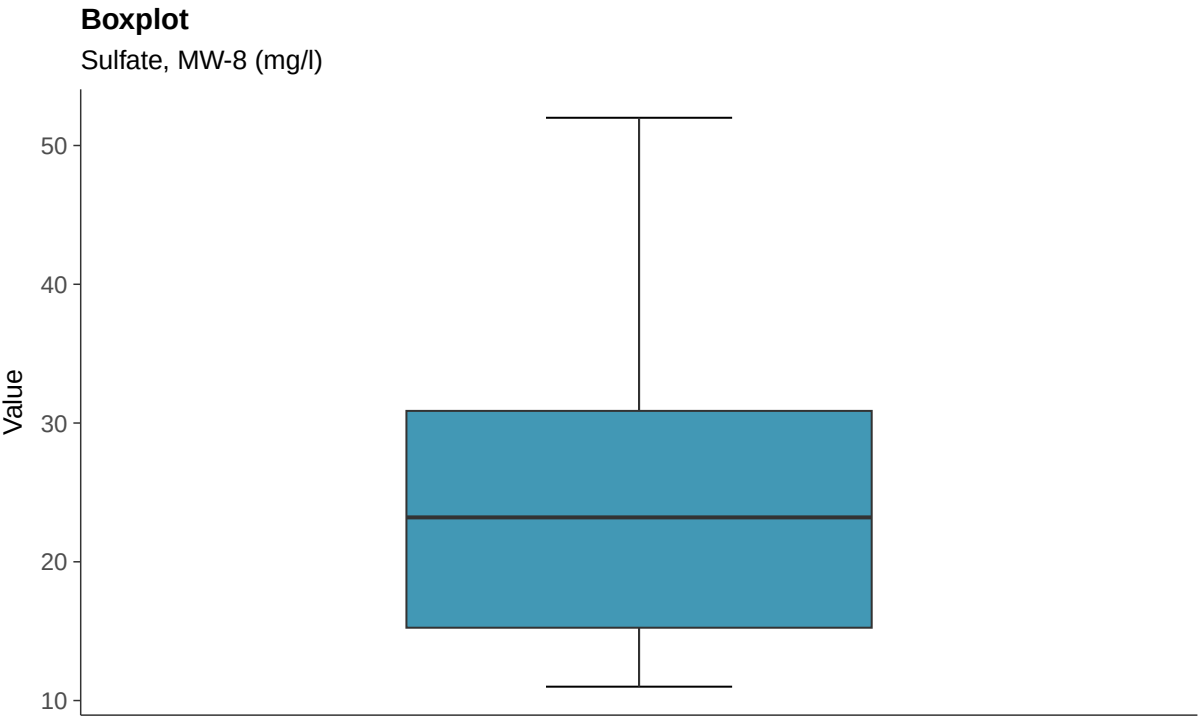


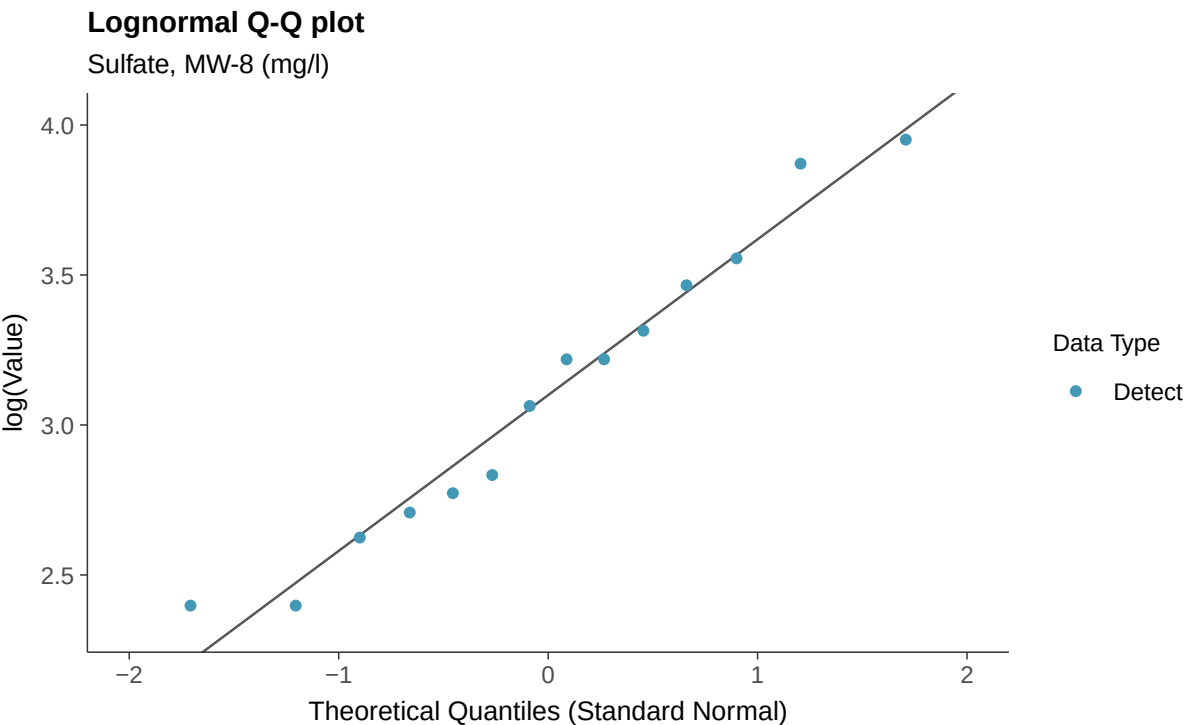
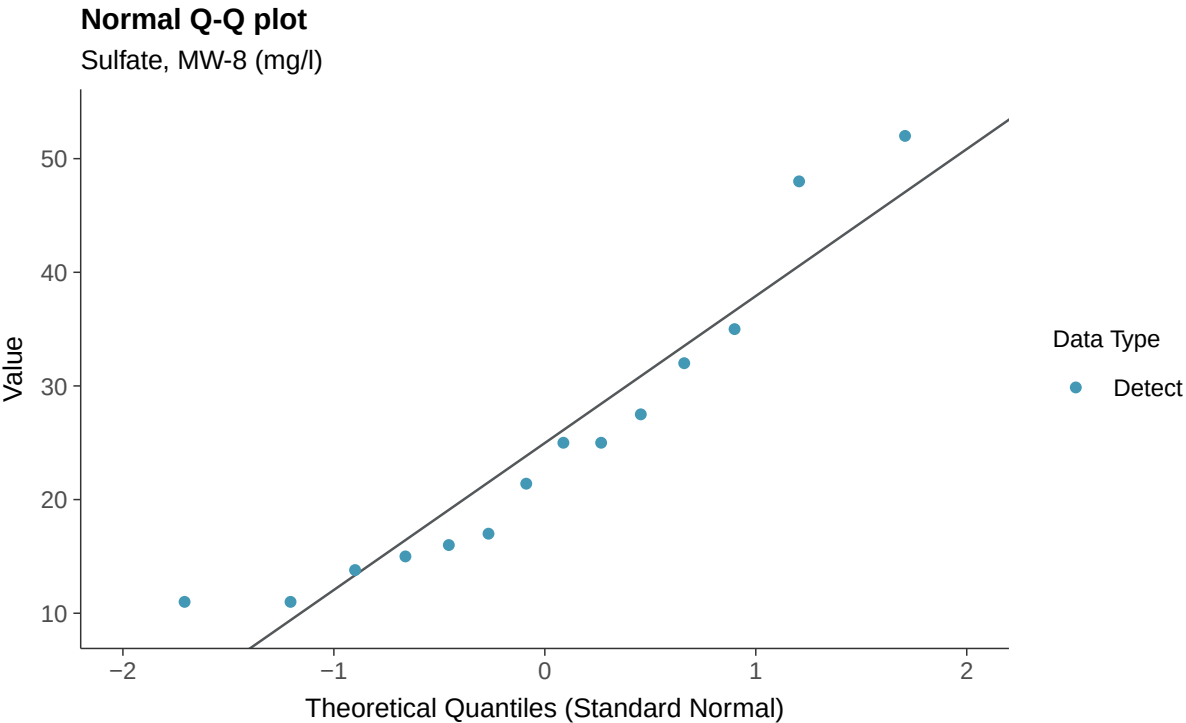


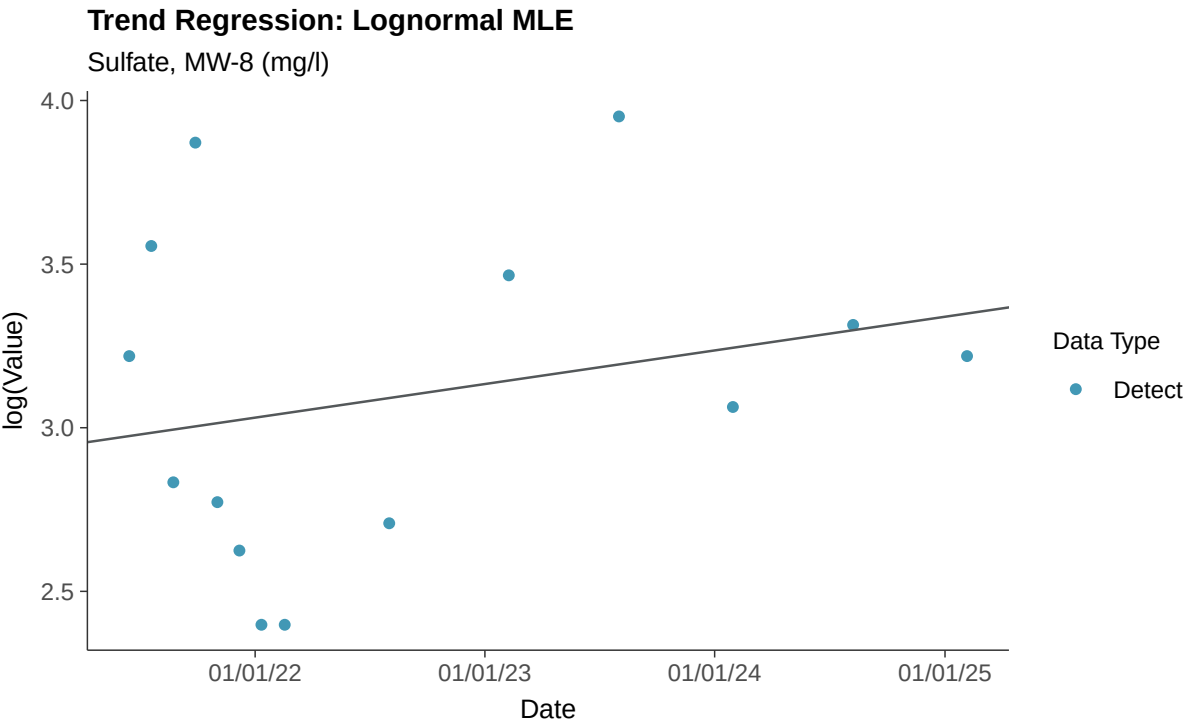
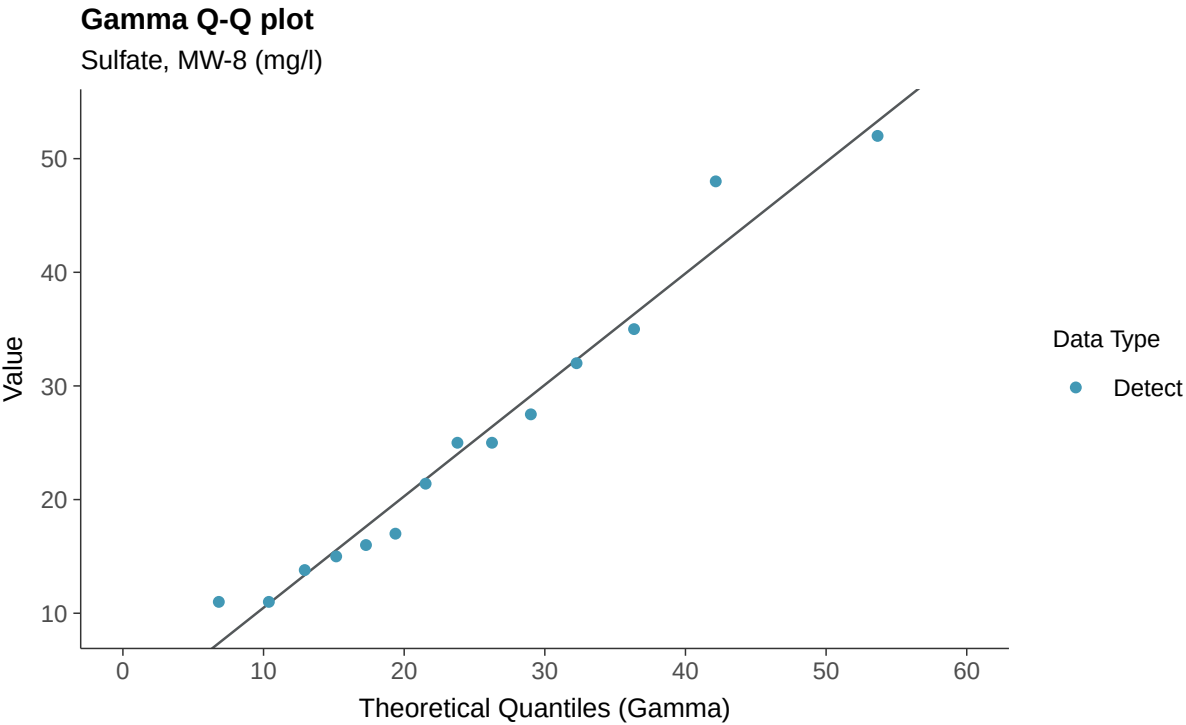
Appendix III: Sulfate, MW-8

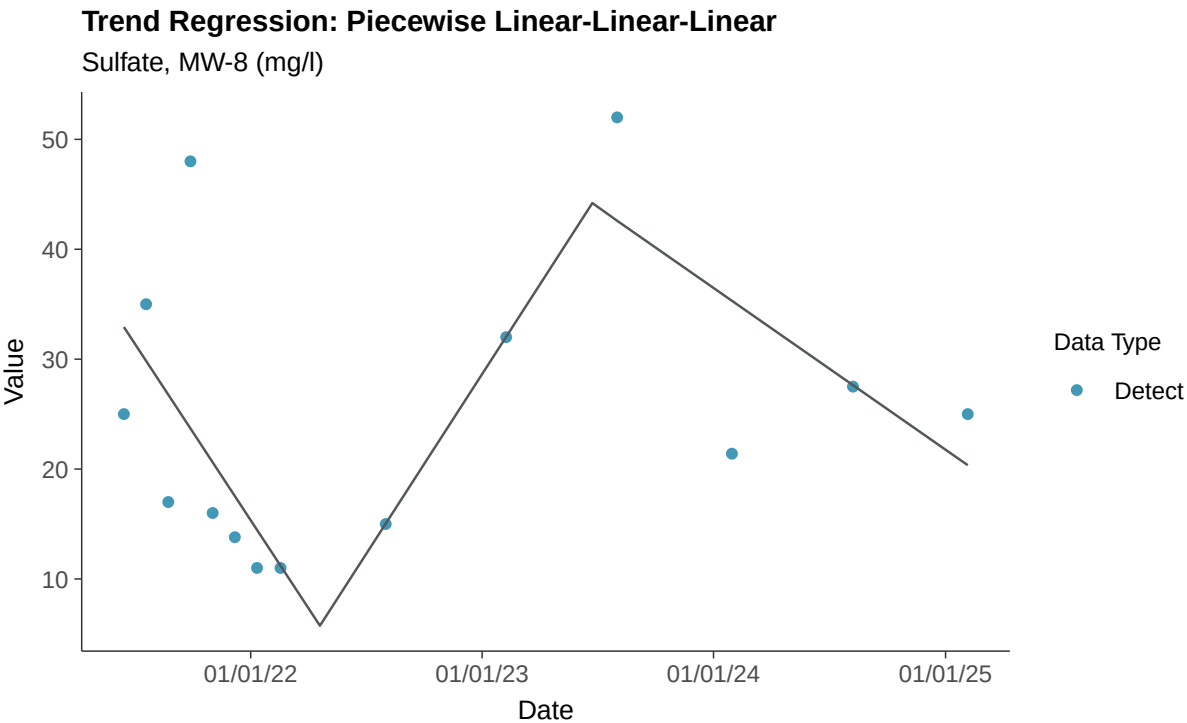
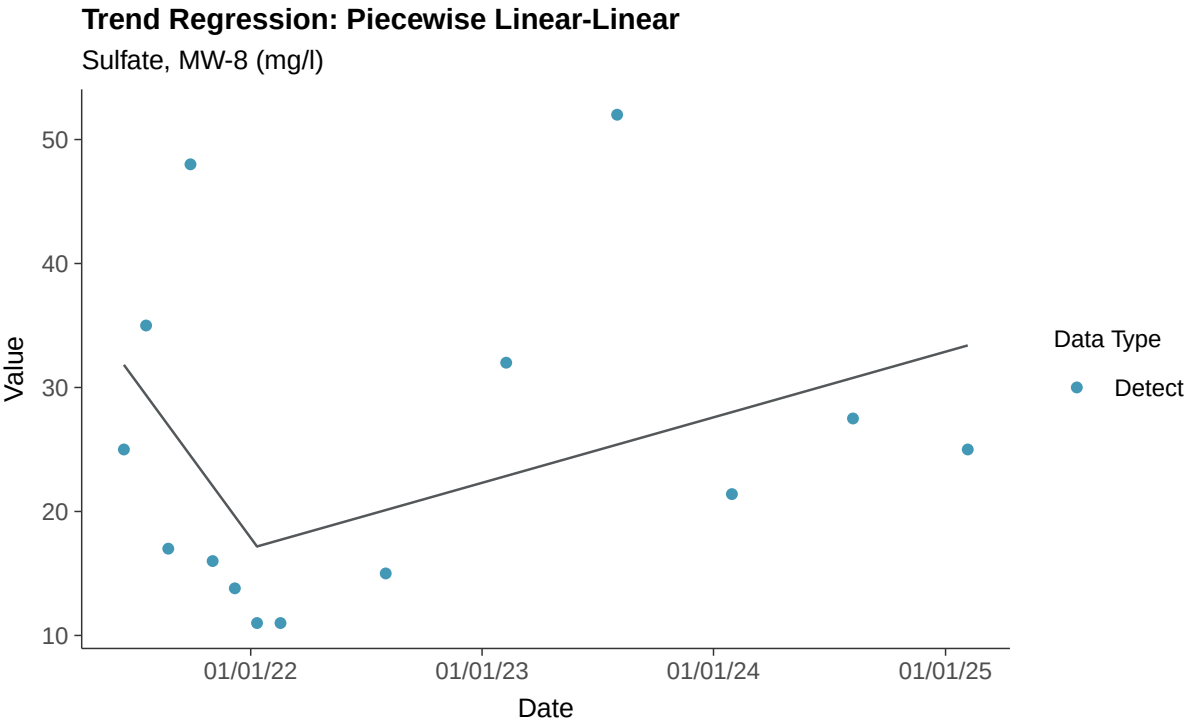
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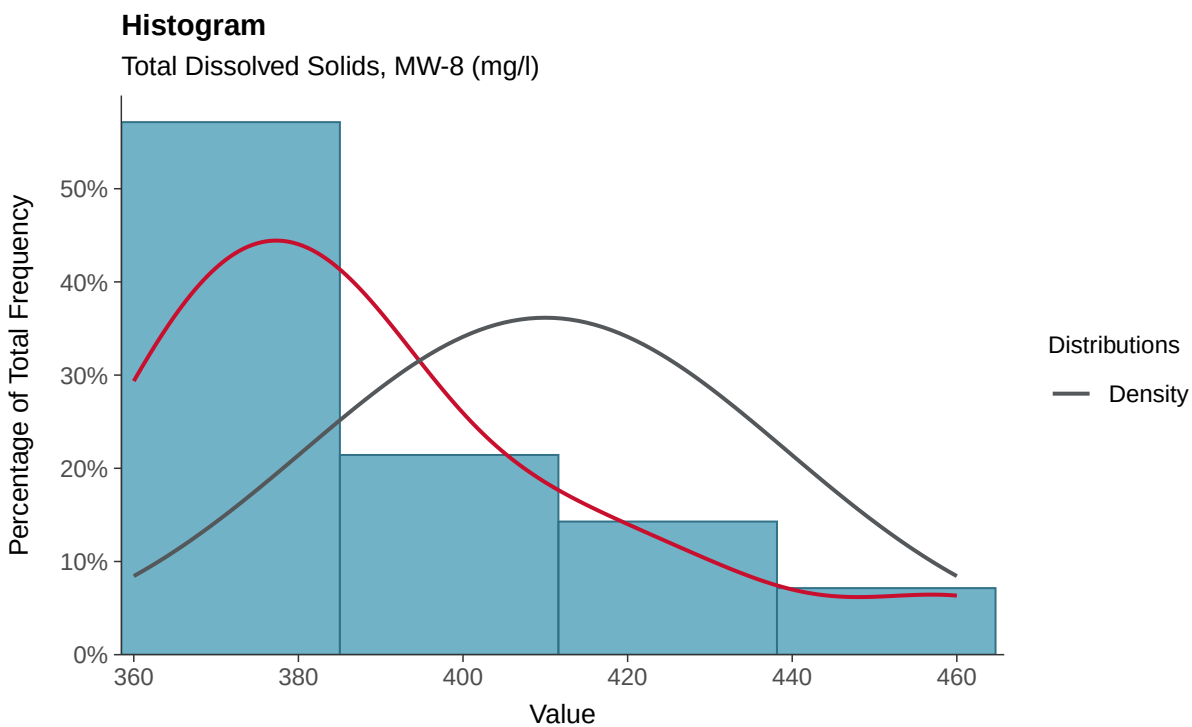
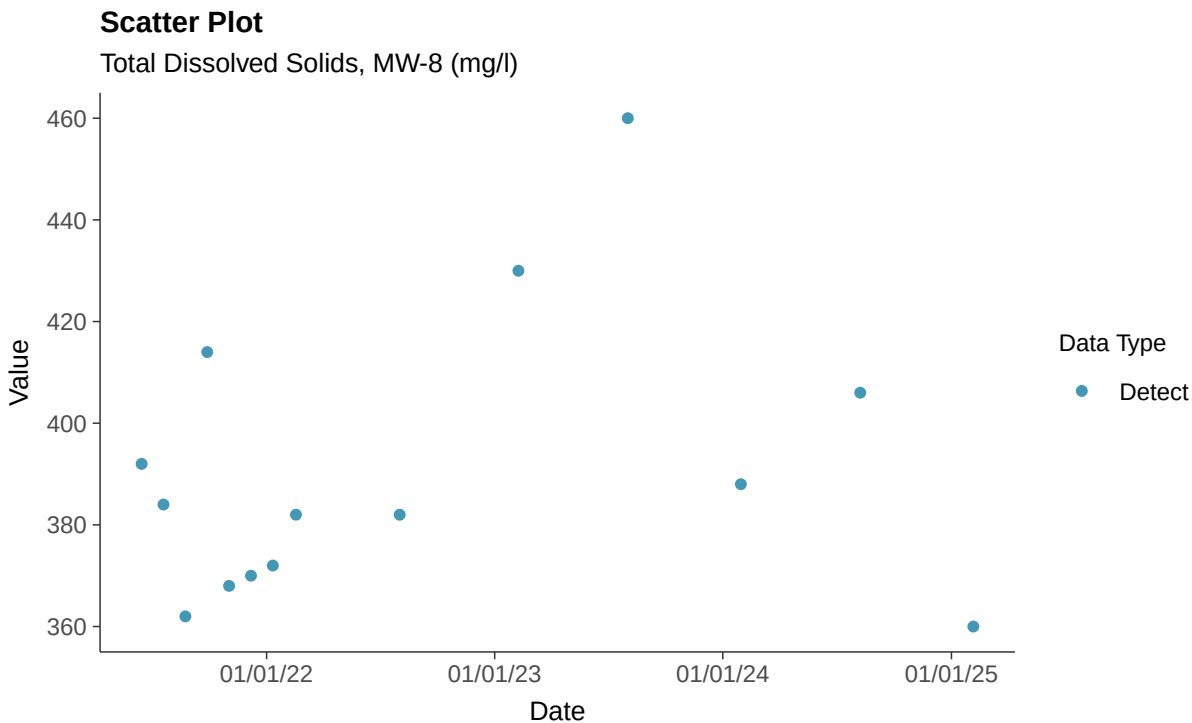


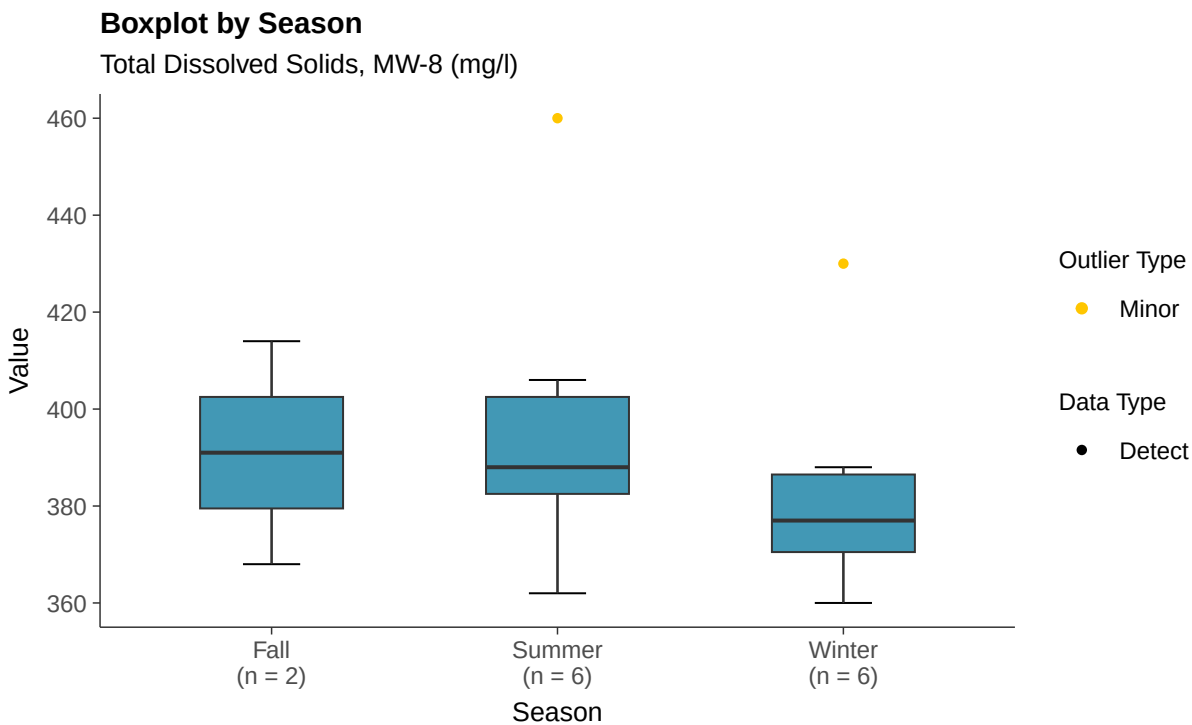
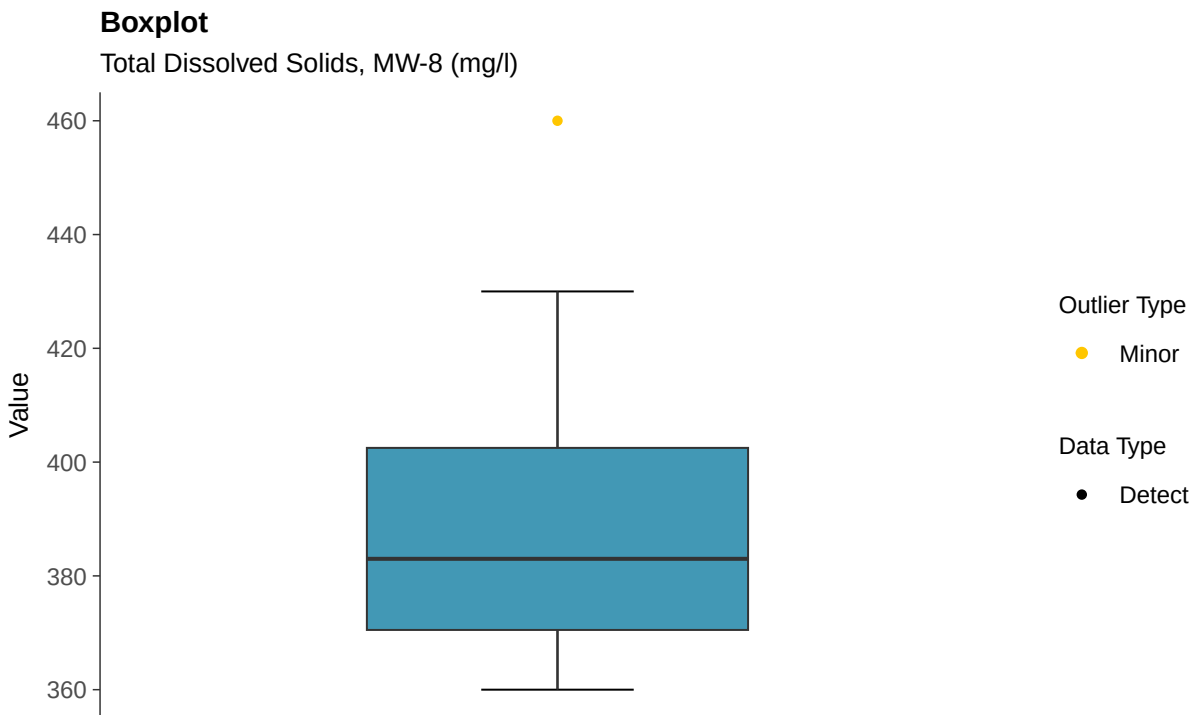


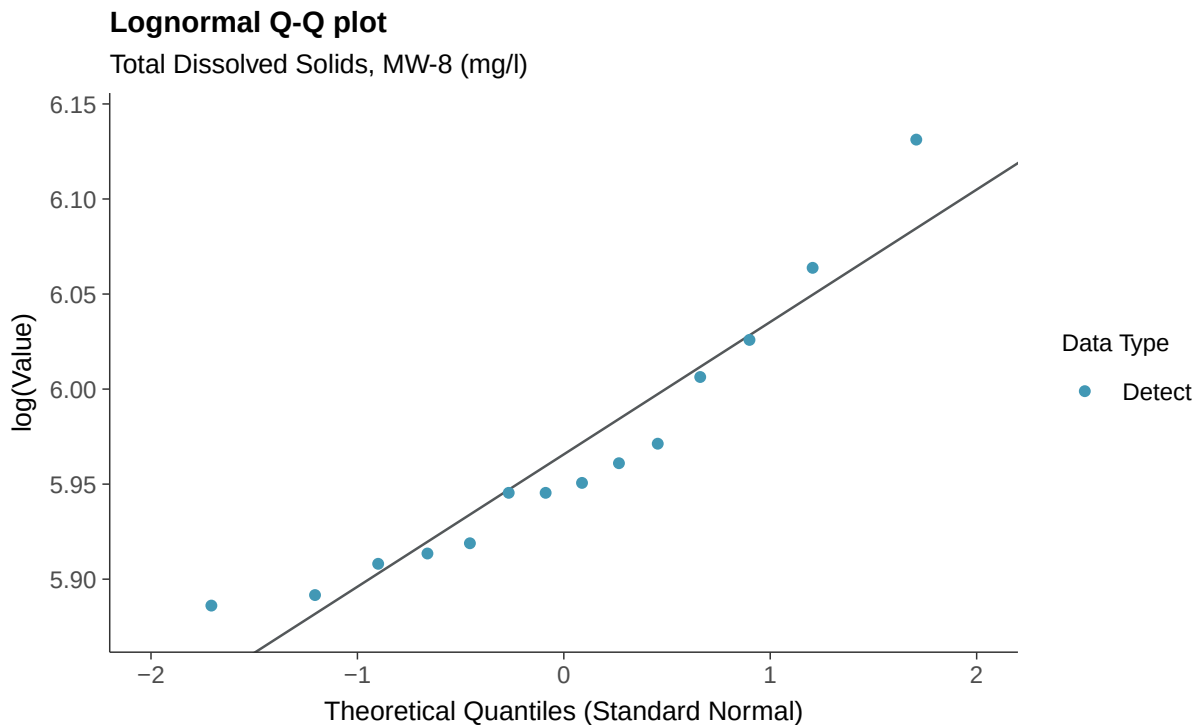
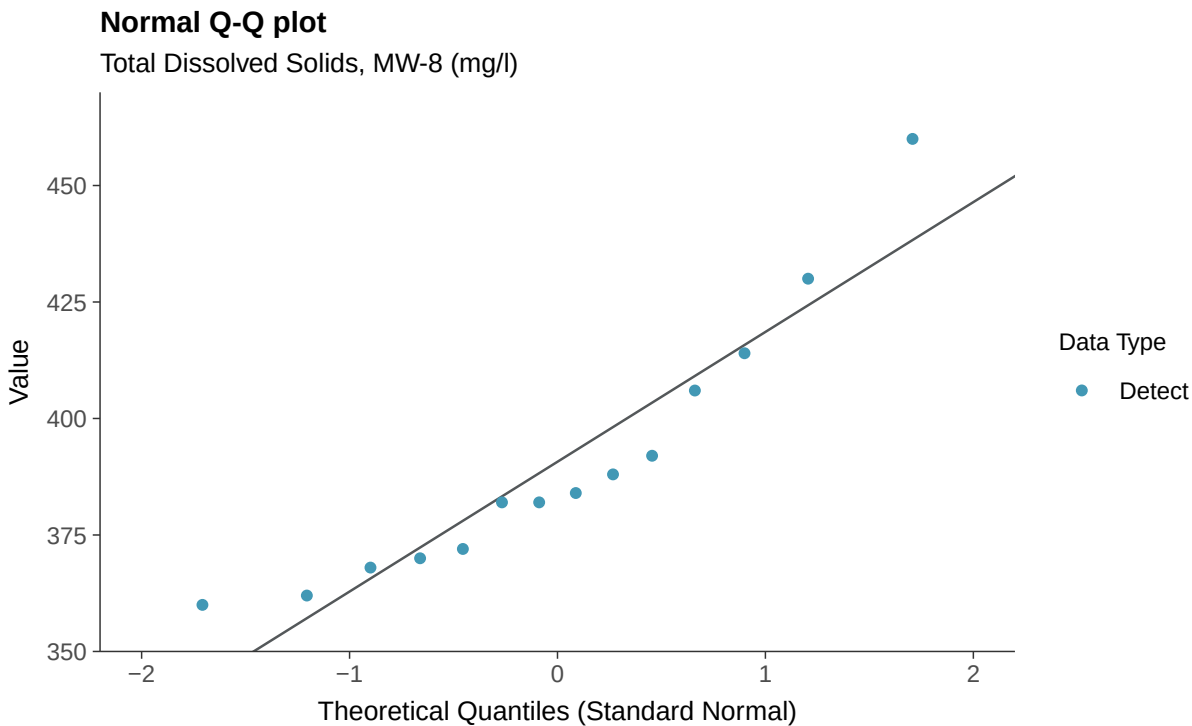


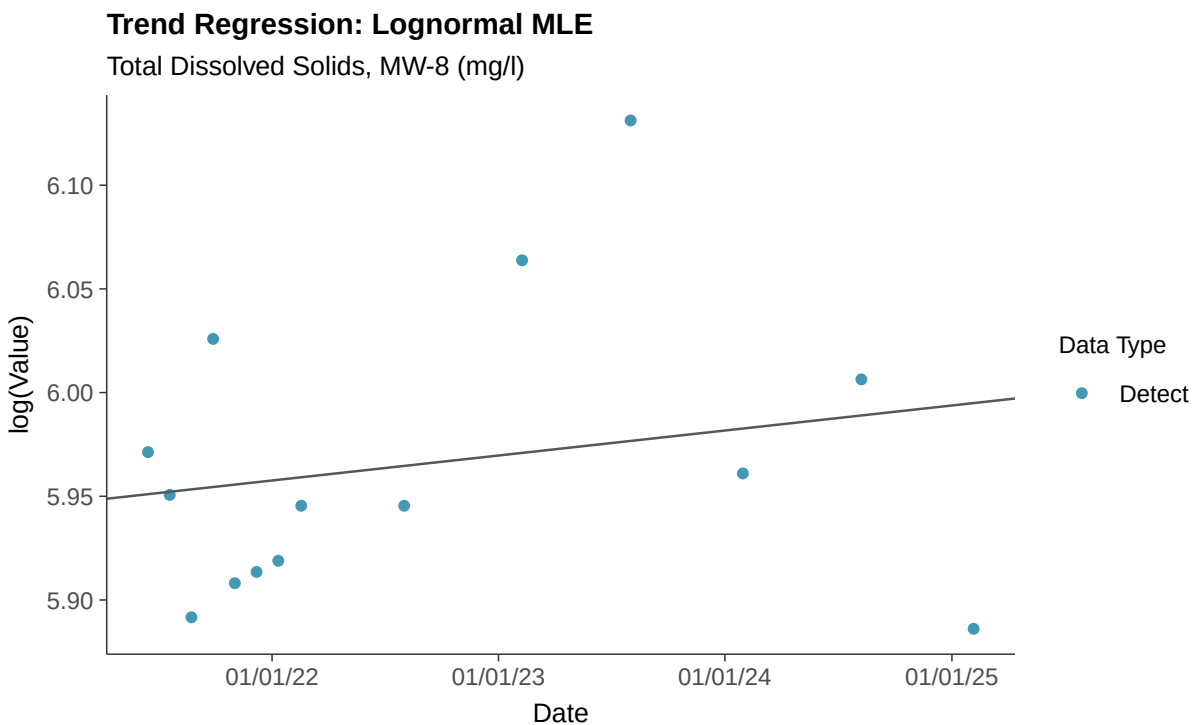
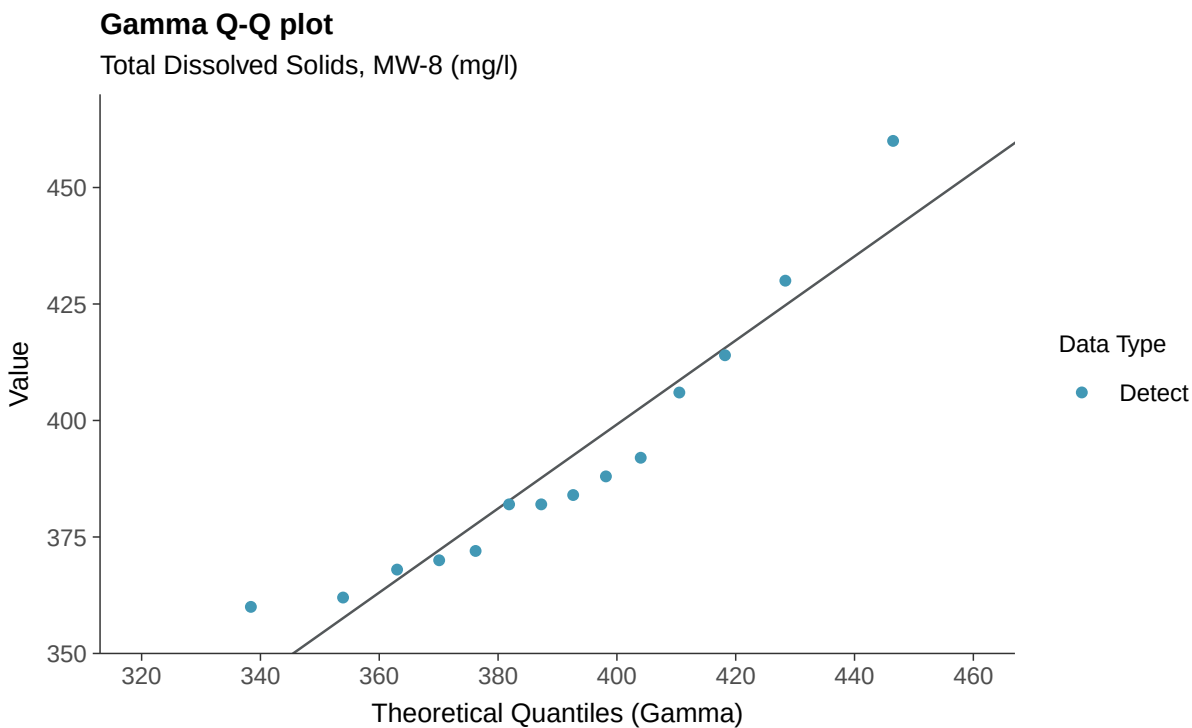
Appendix III: Total Dissolved Solids, MW-8

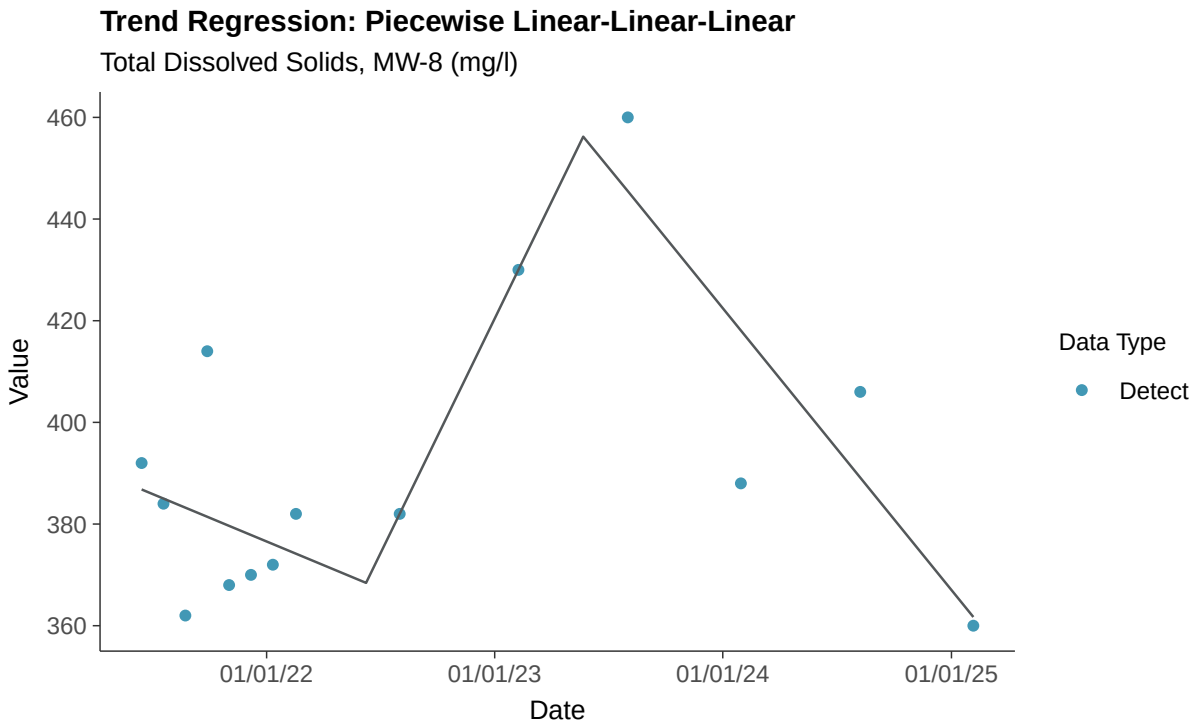
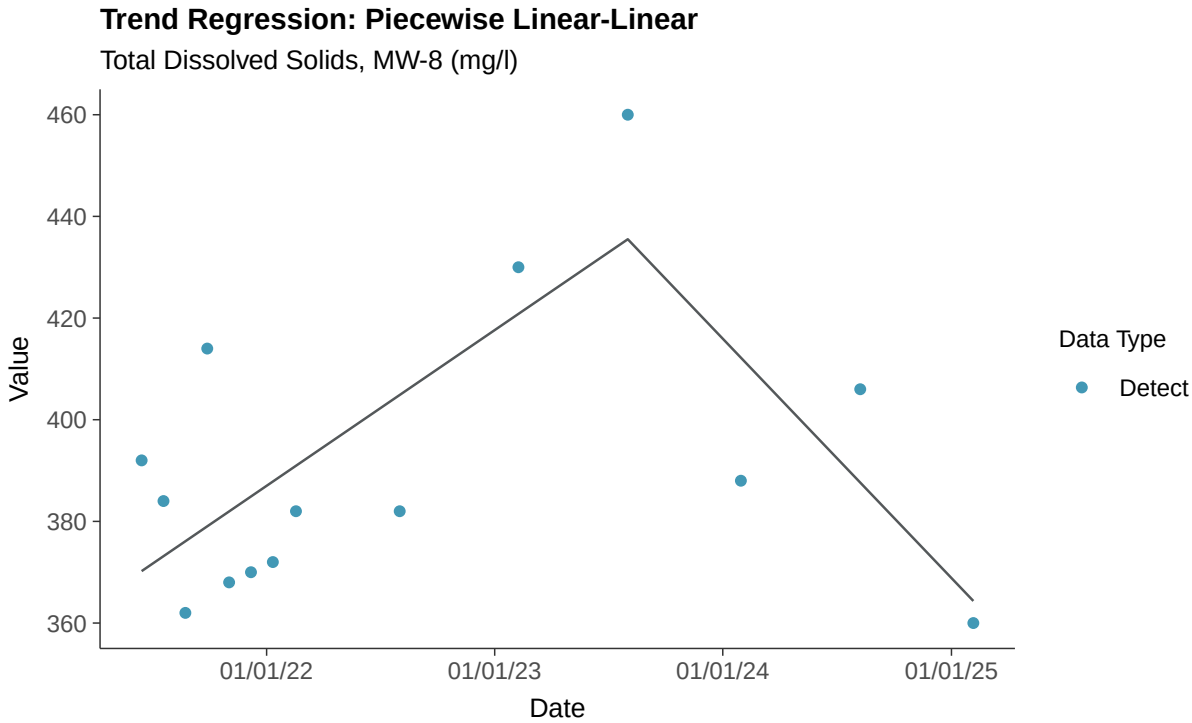
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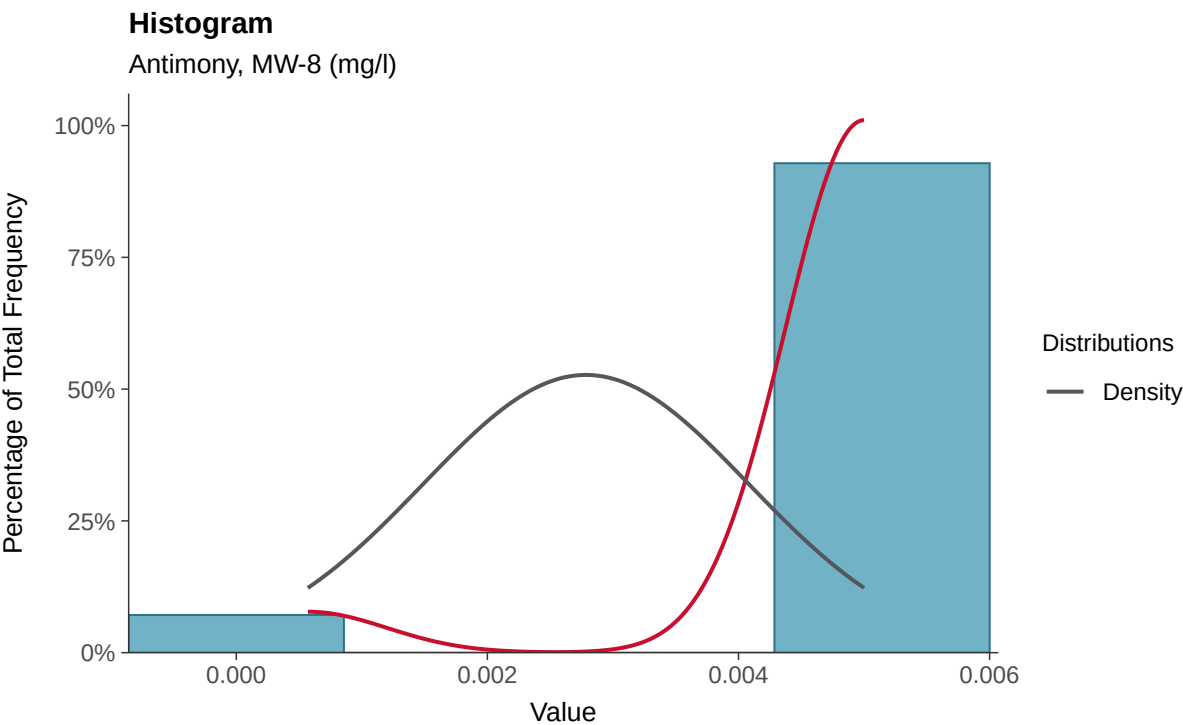
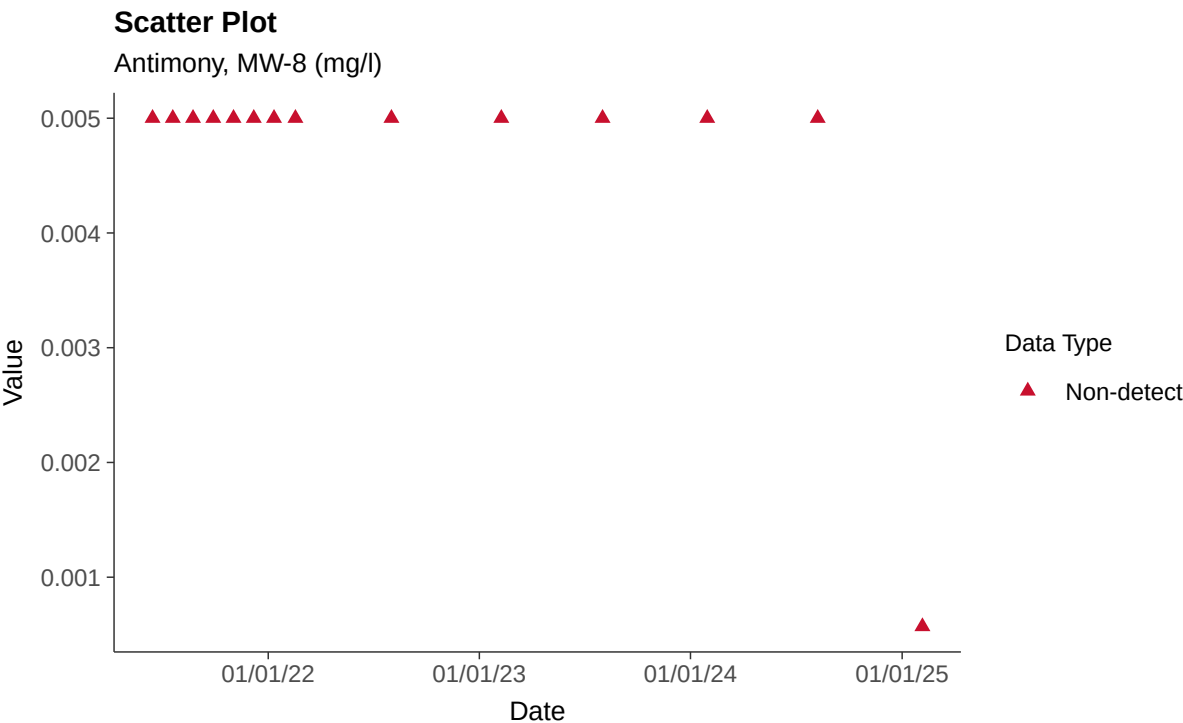


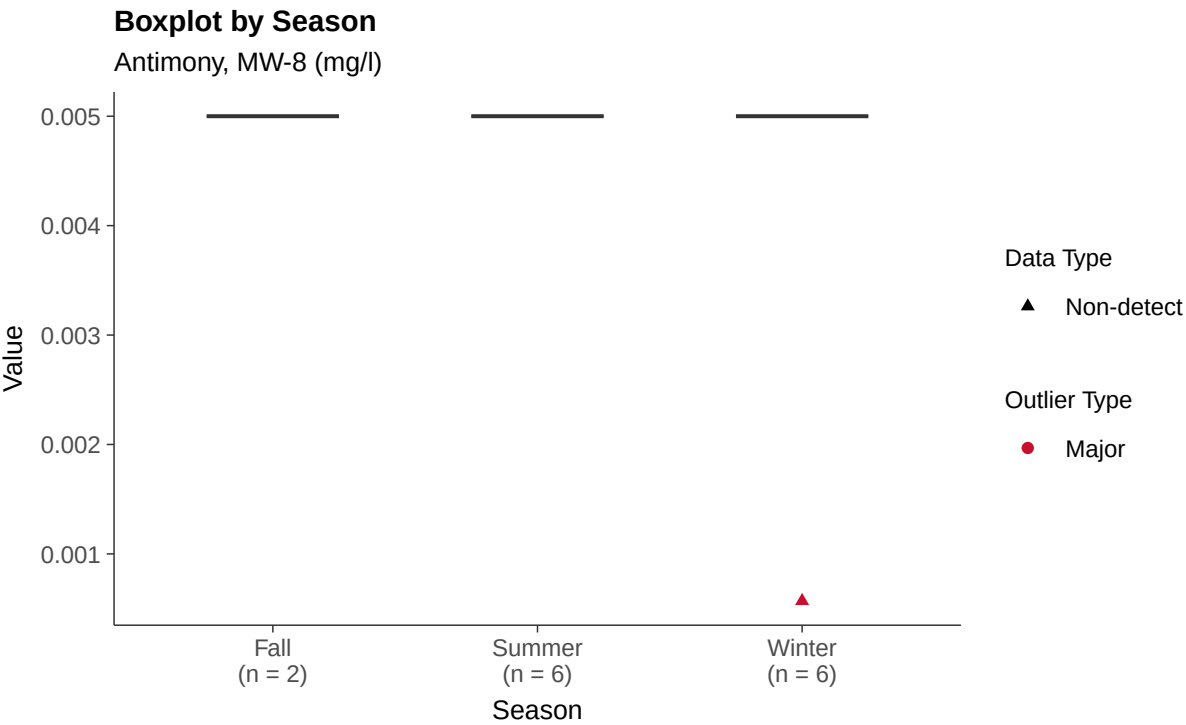
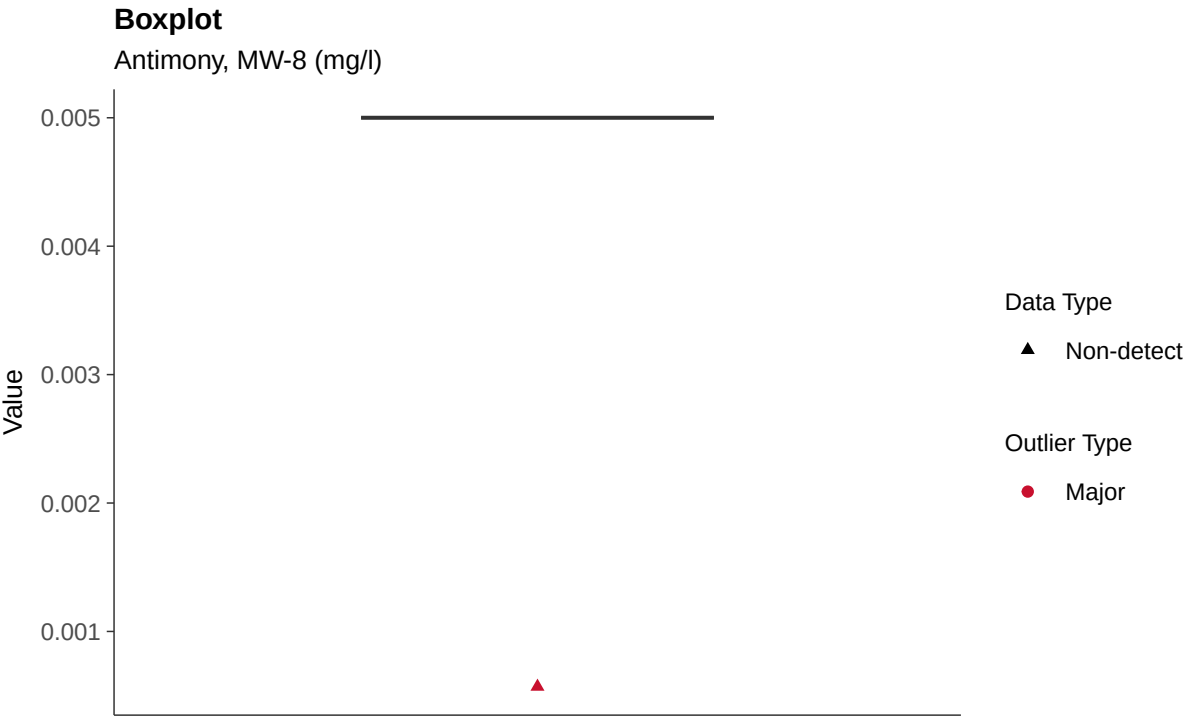




Appendix IV: Antimony, MW-8

ID: 17_3_101

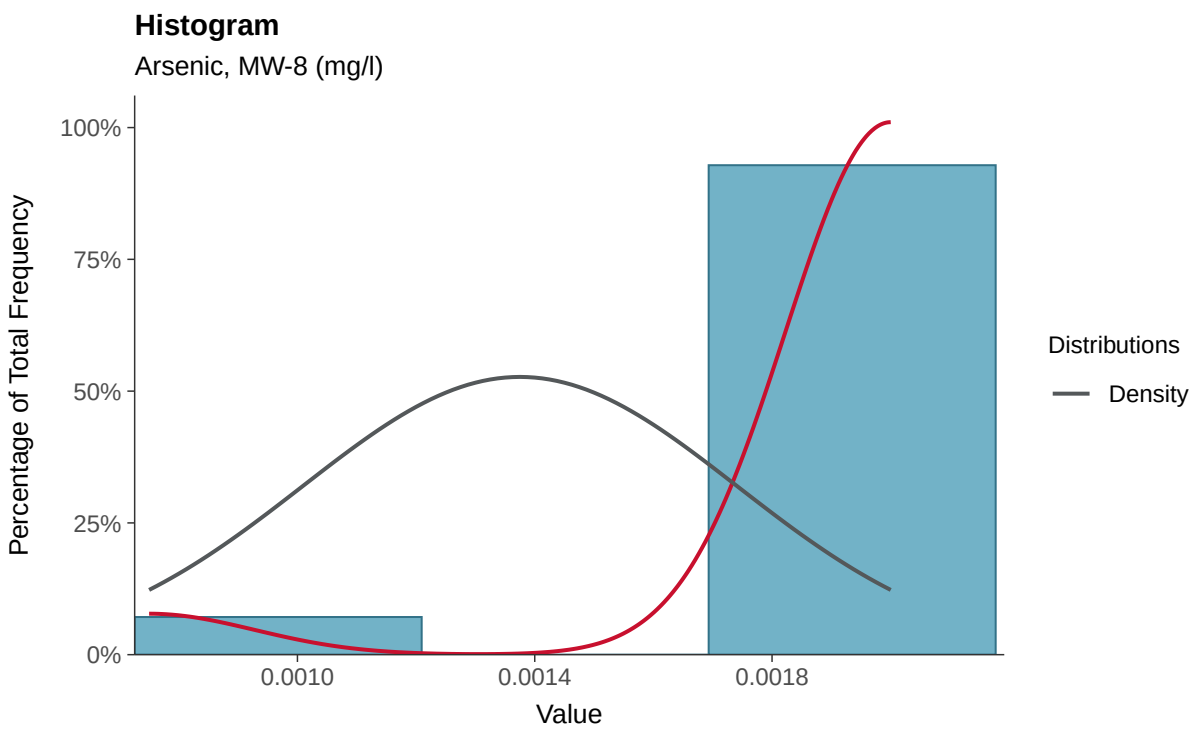
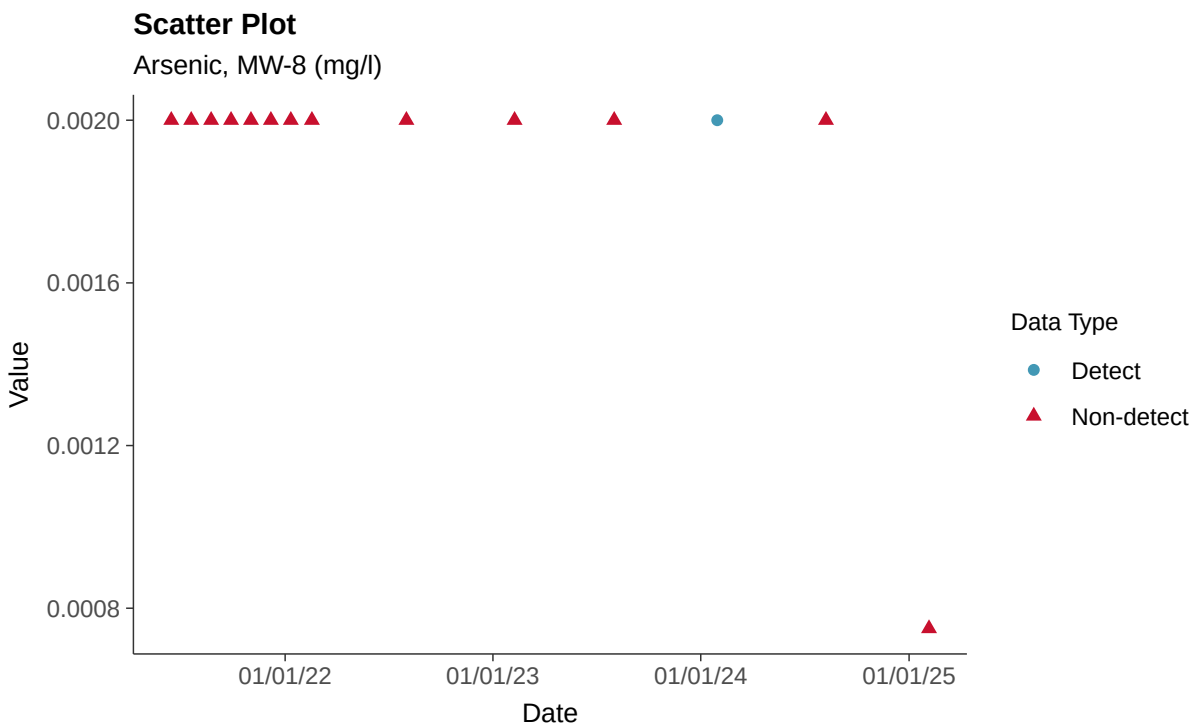


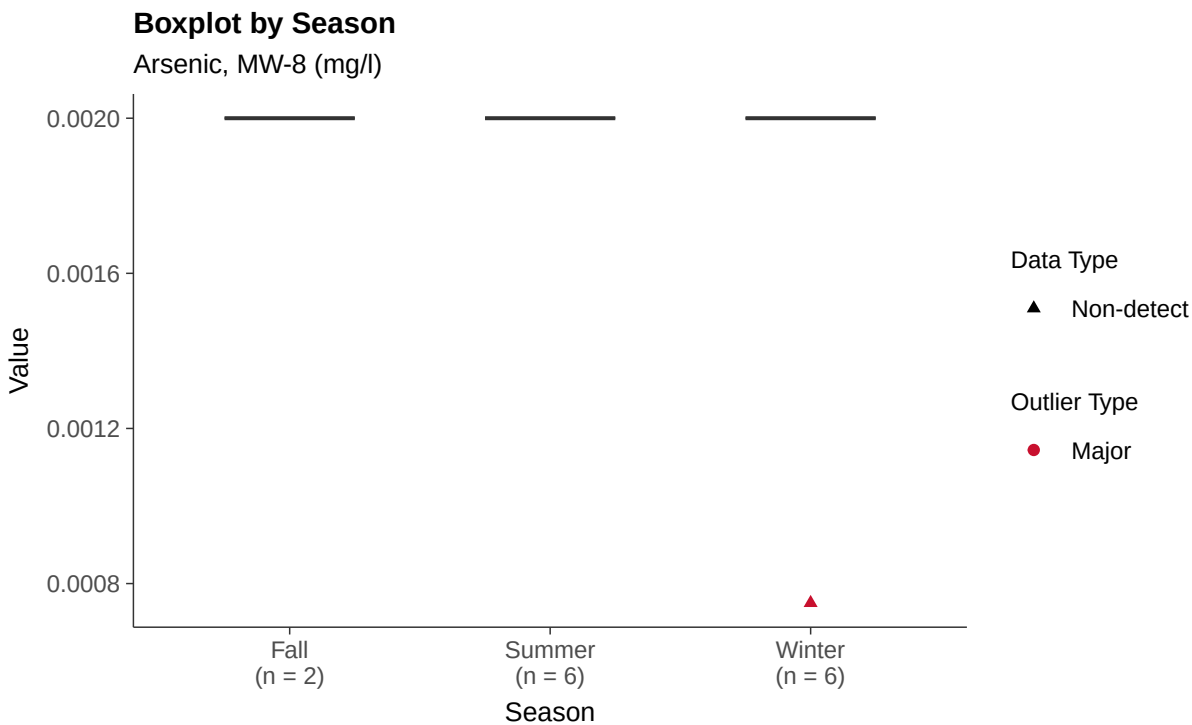
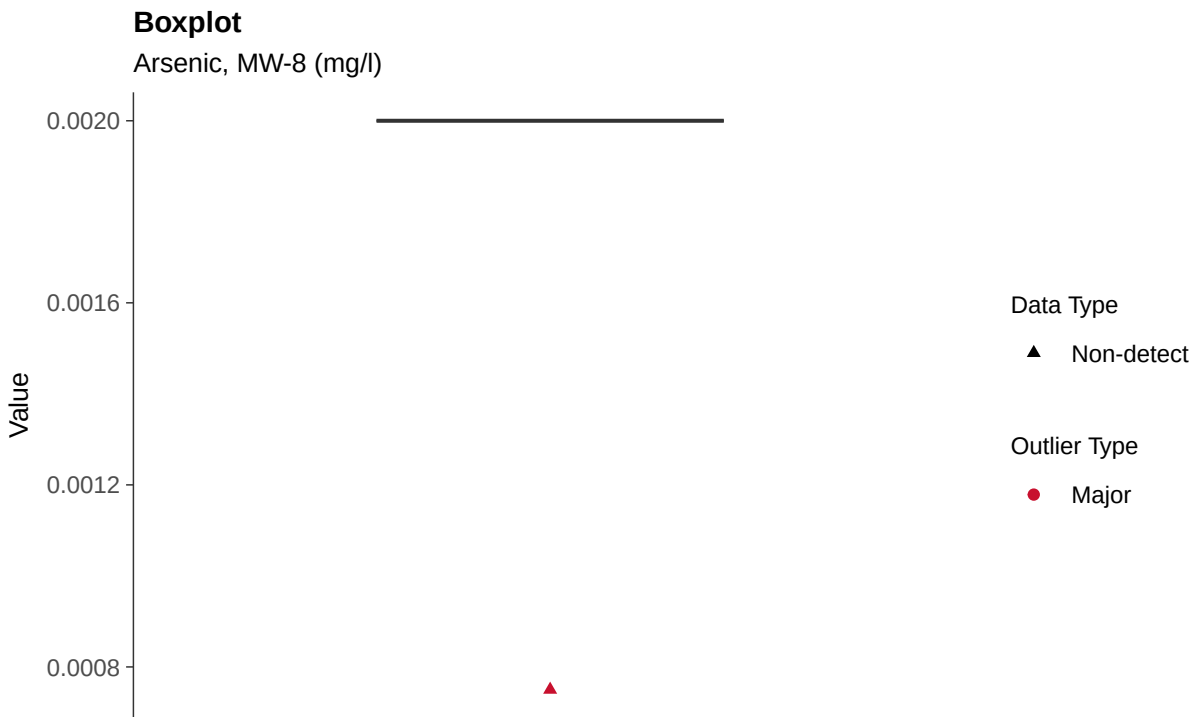


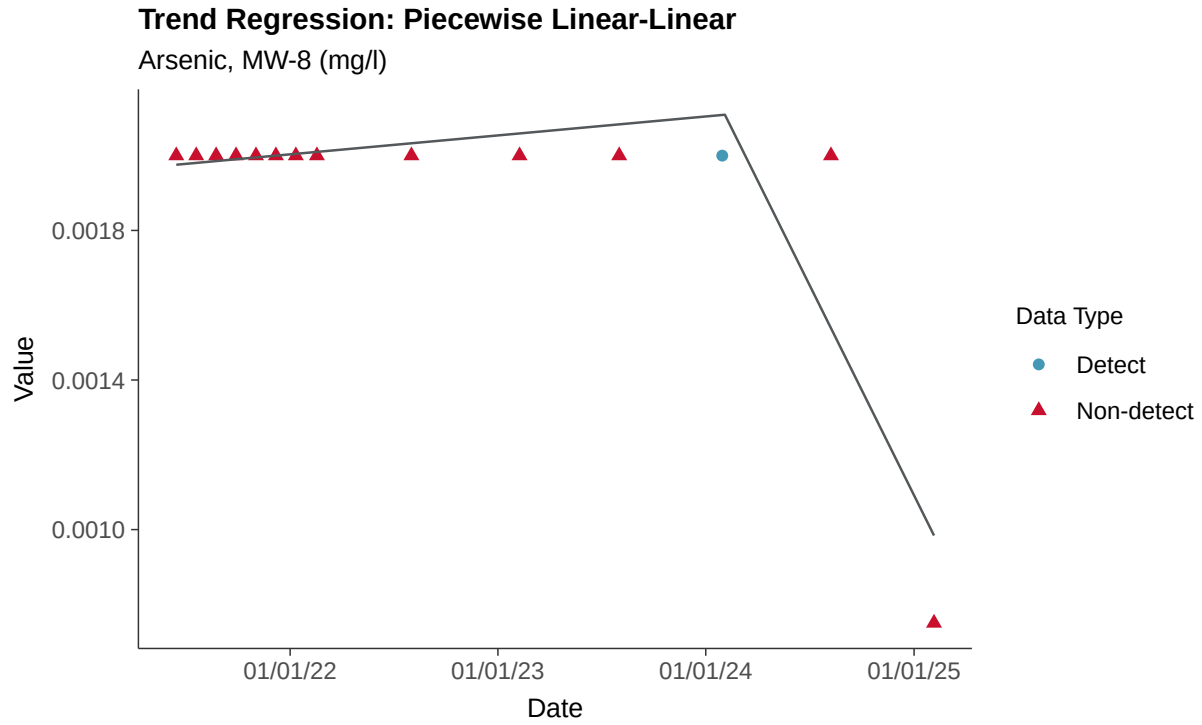


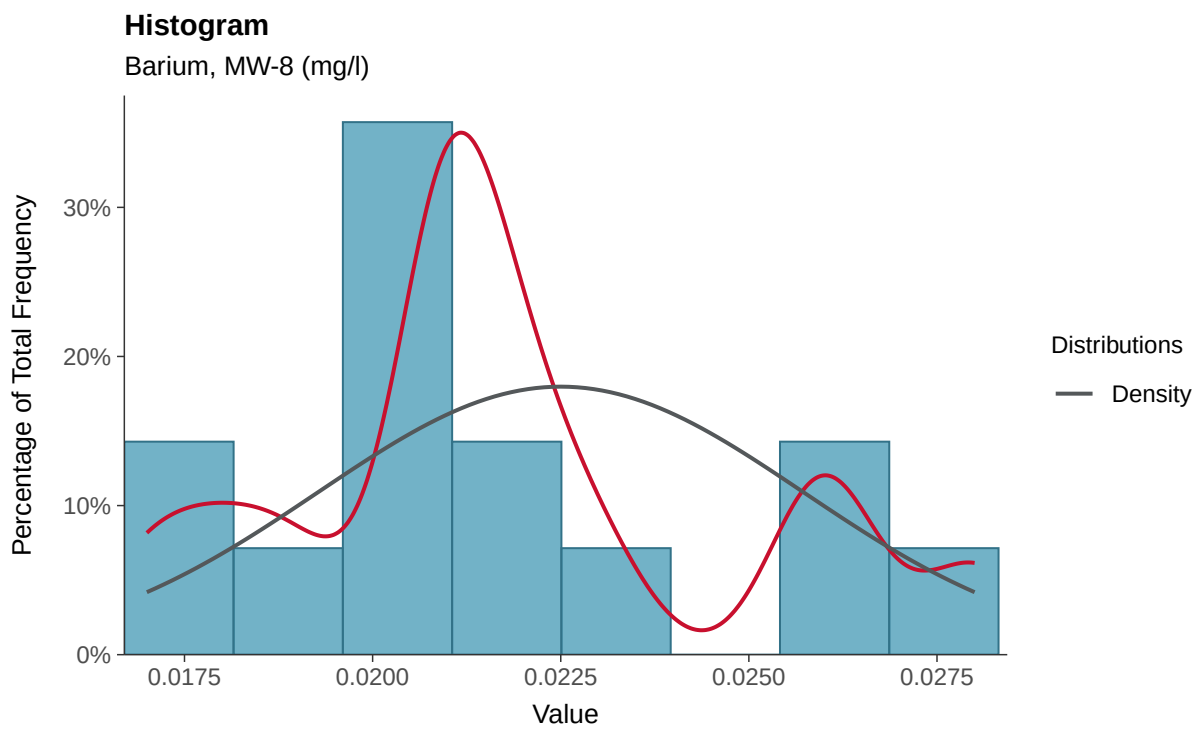
Appendix IV: Arsenic, MW-8

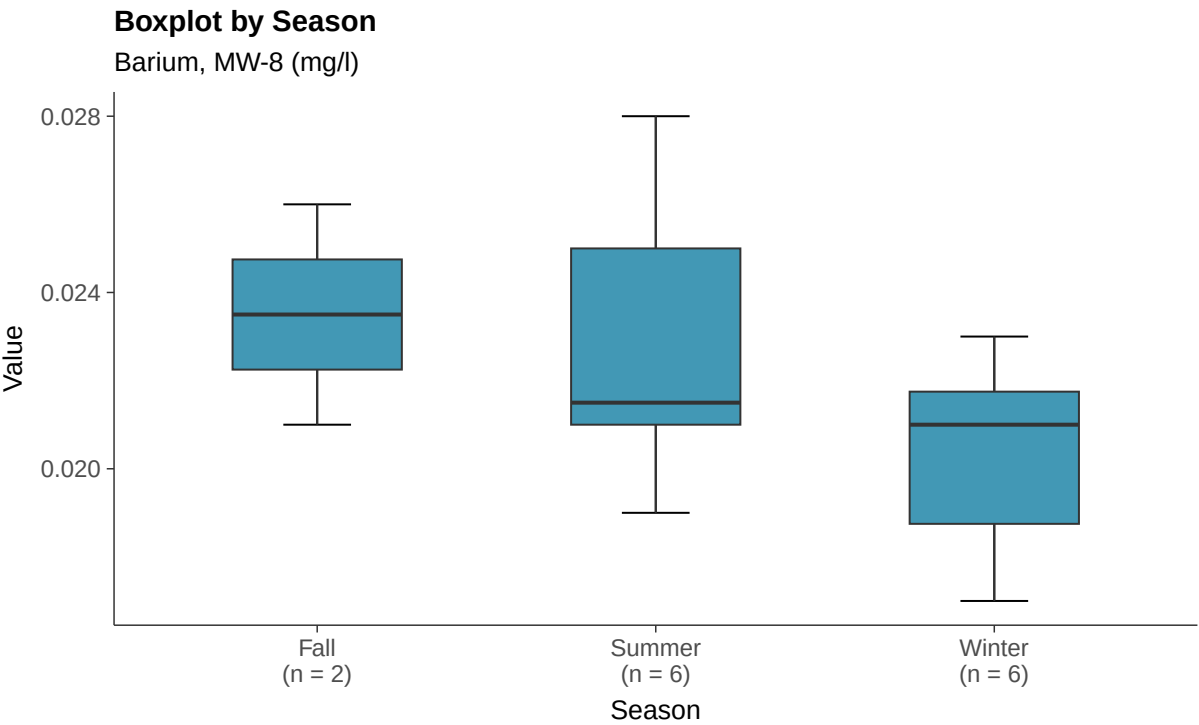
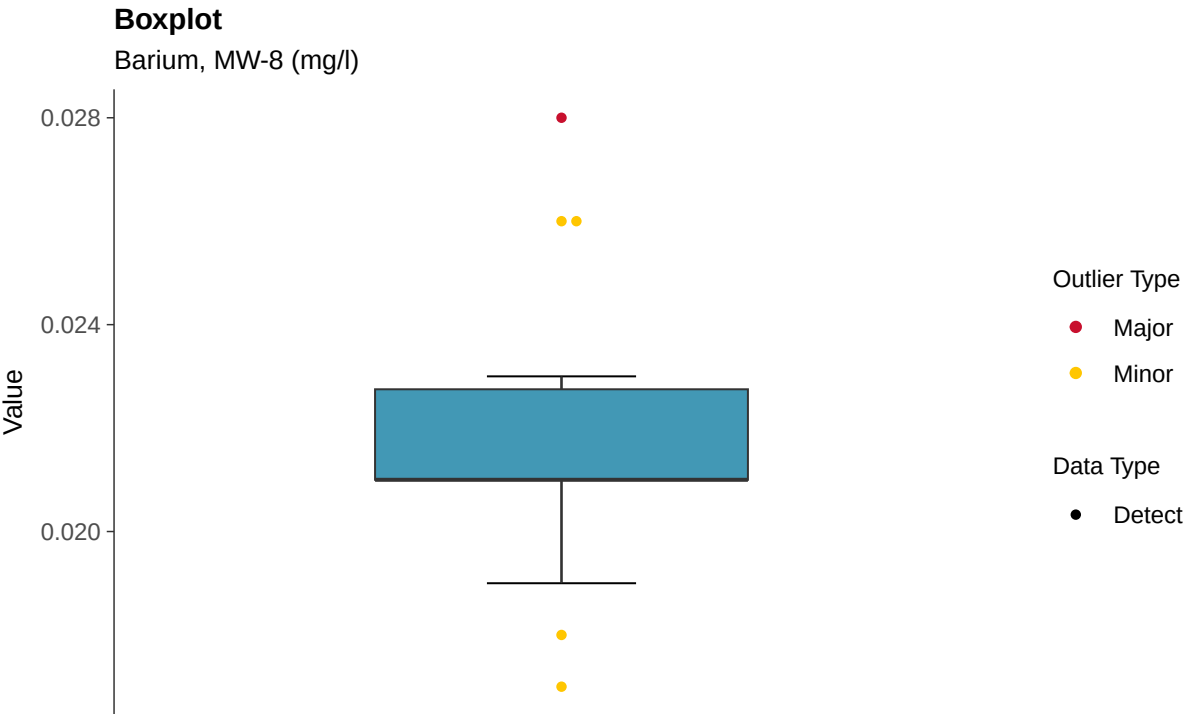
ID: 17_3_102

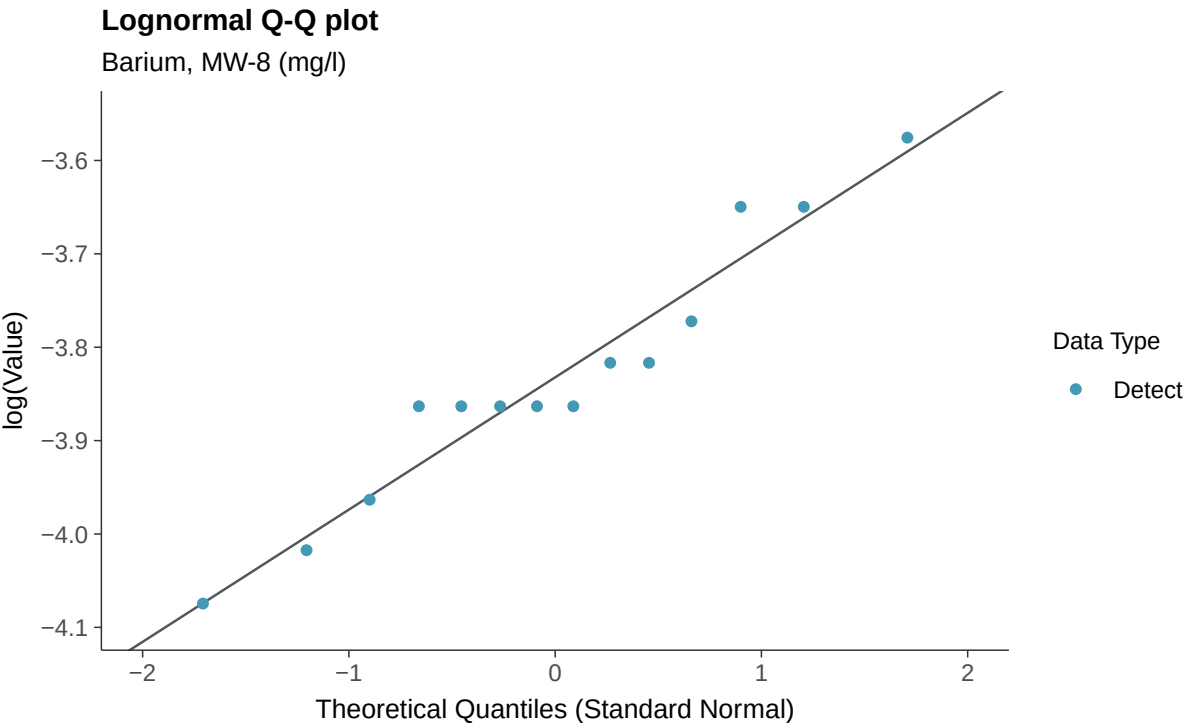
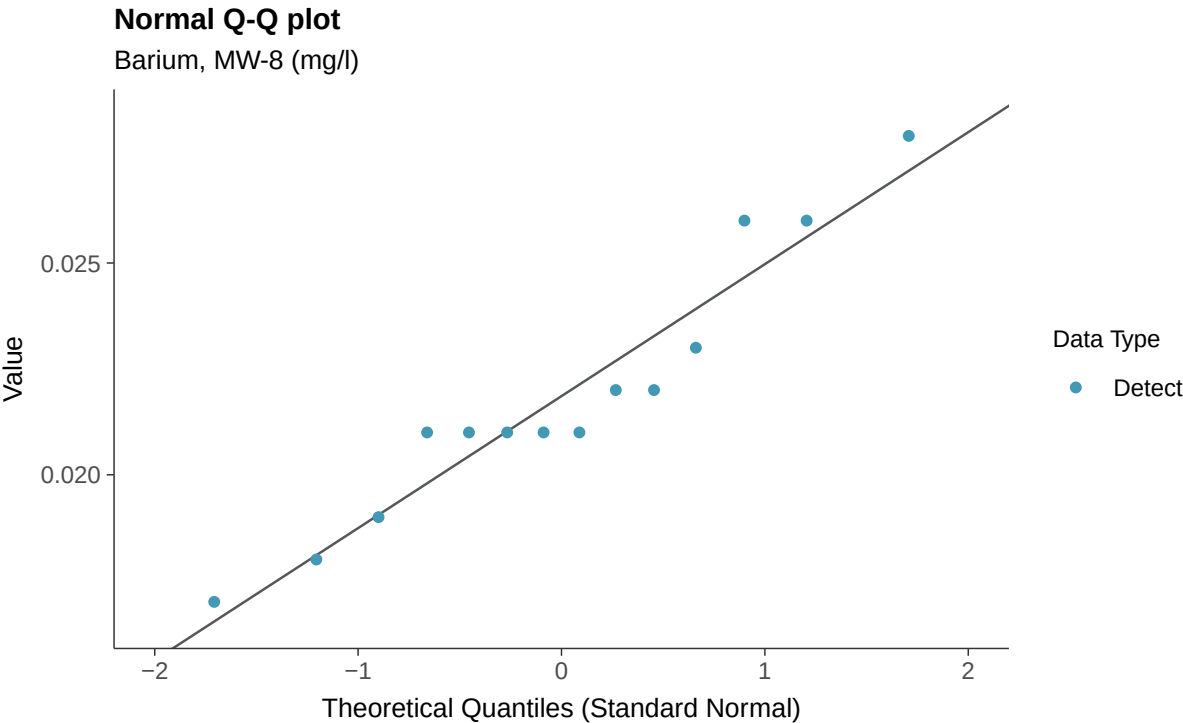


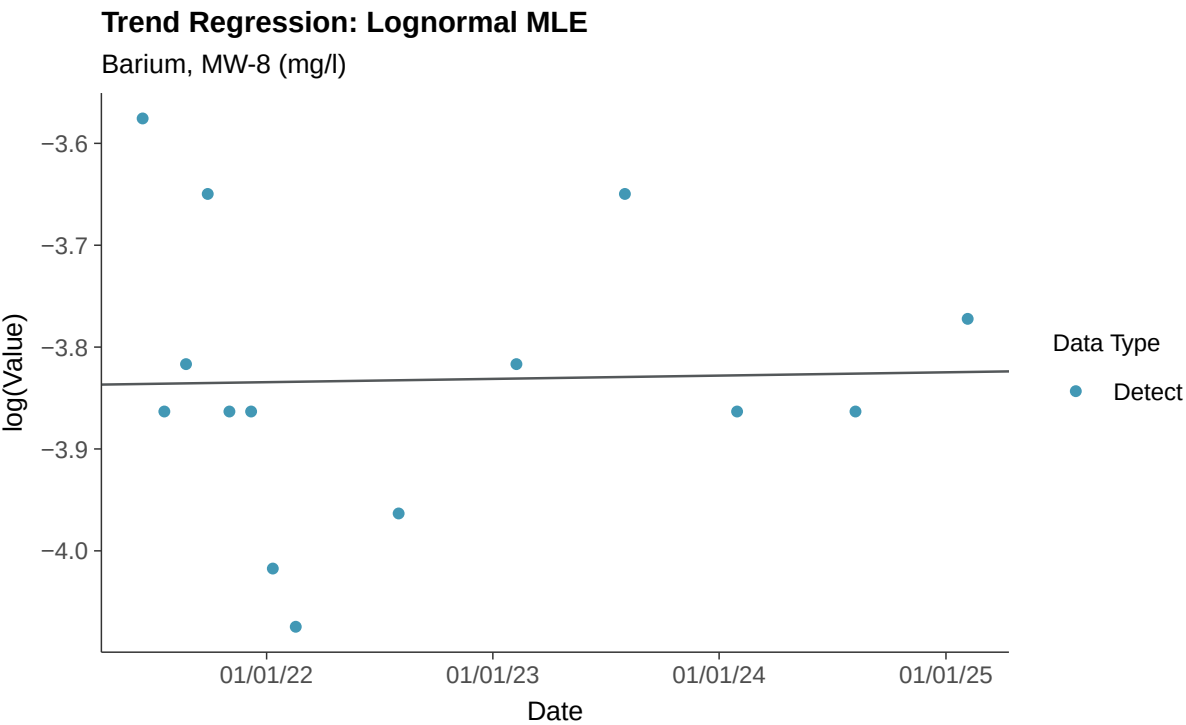
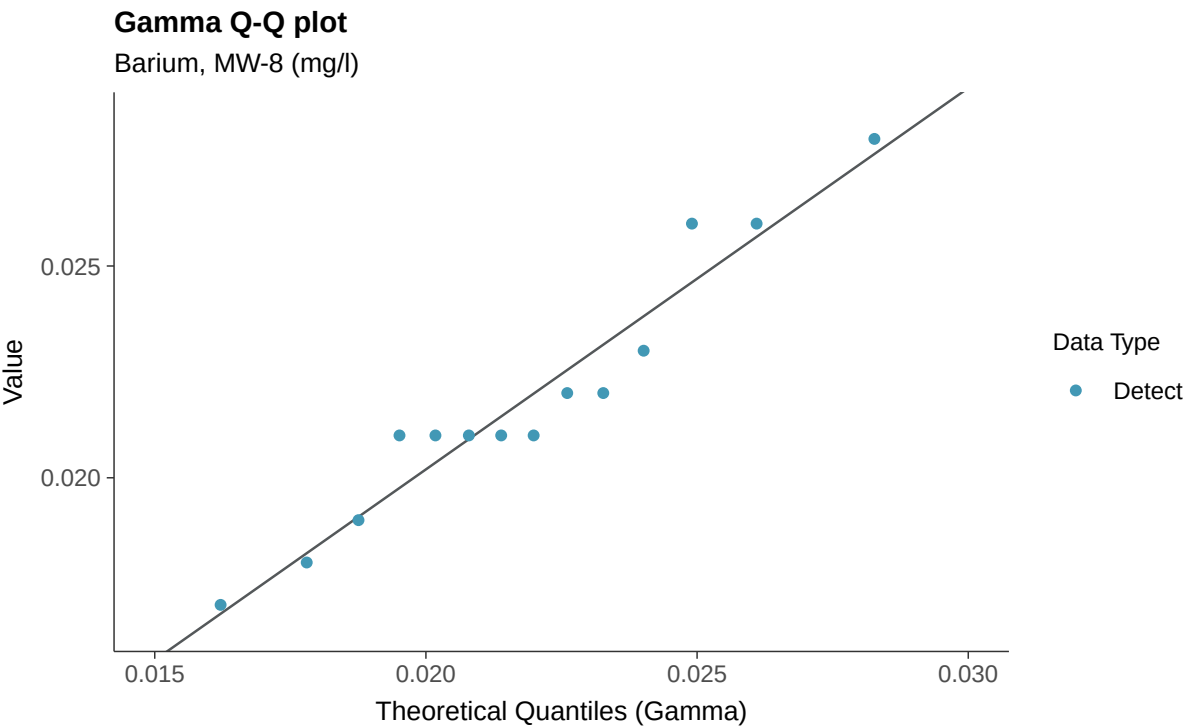


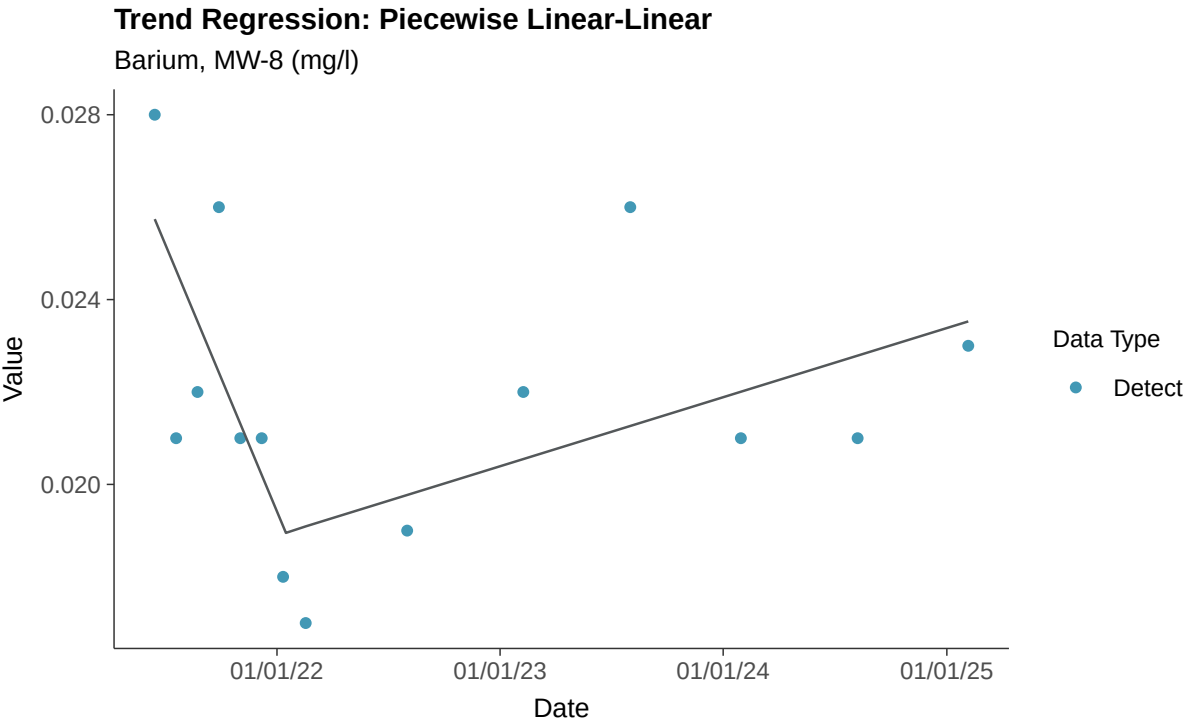


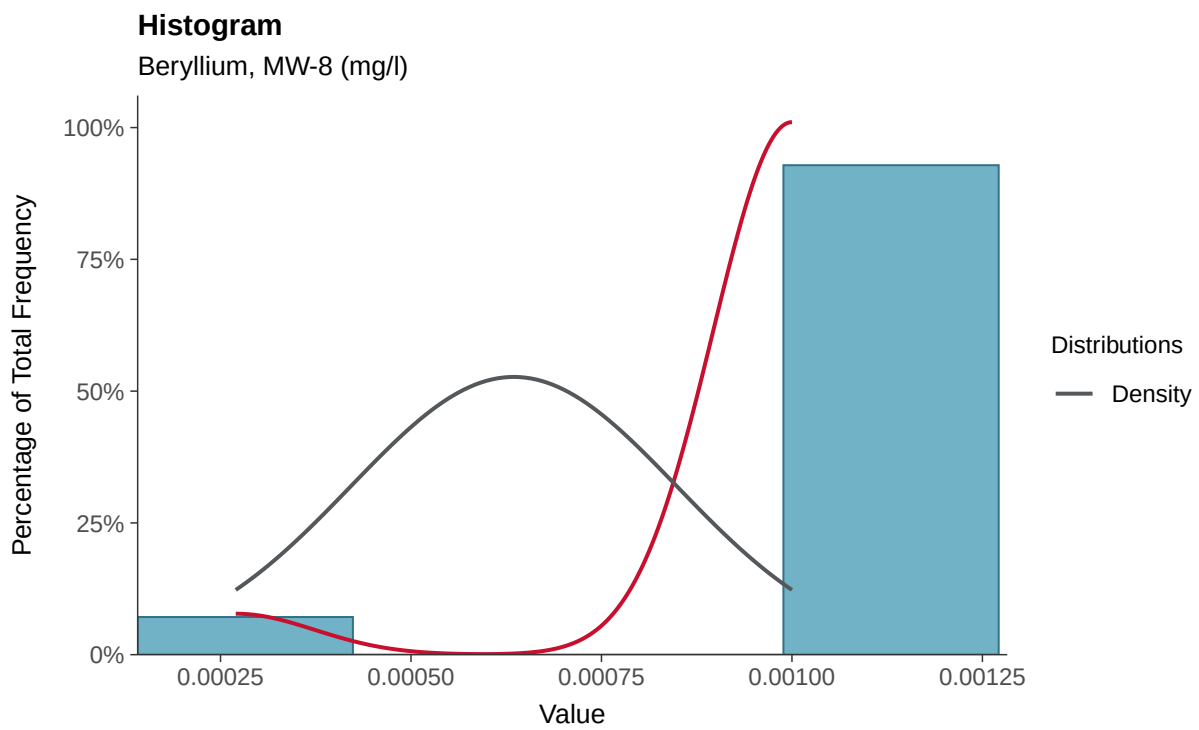


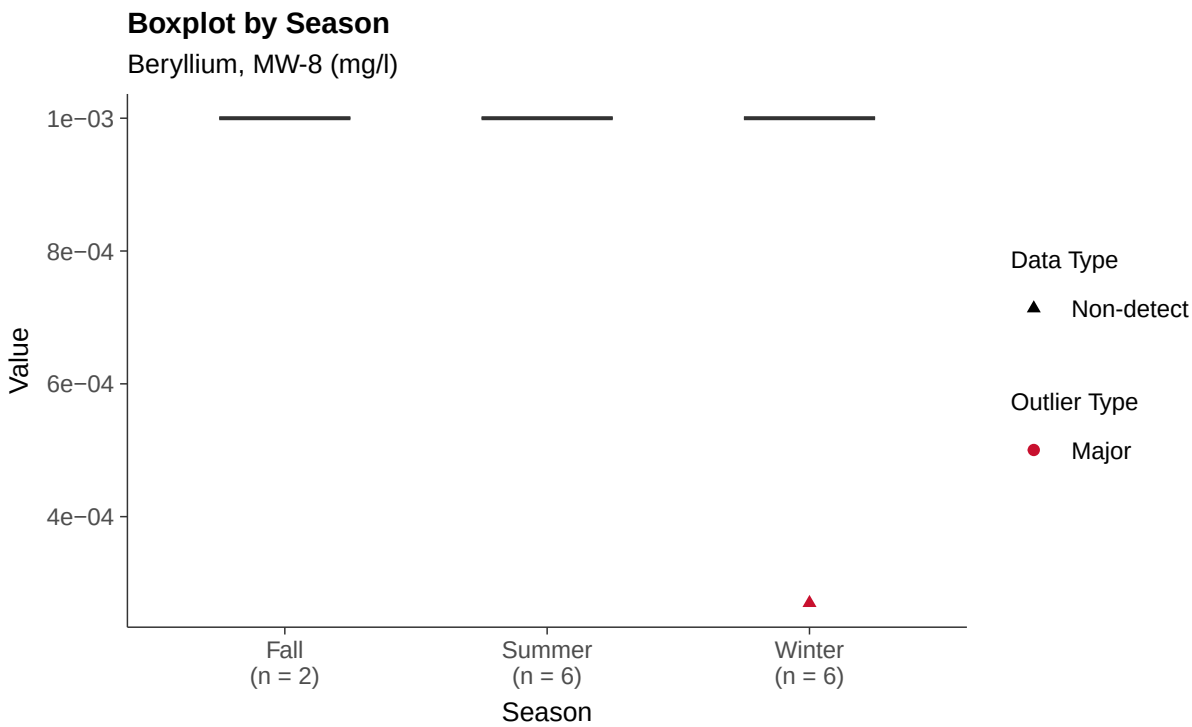
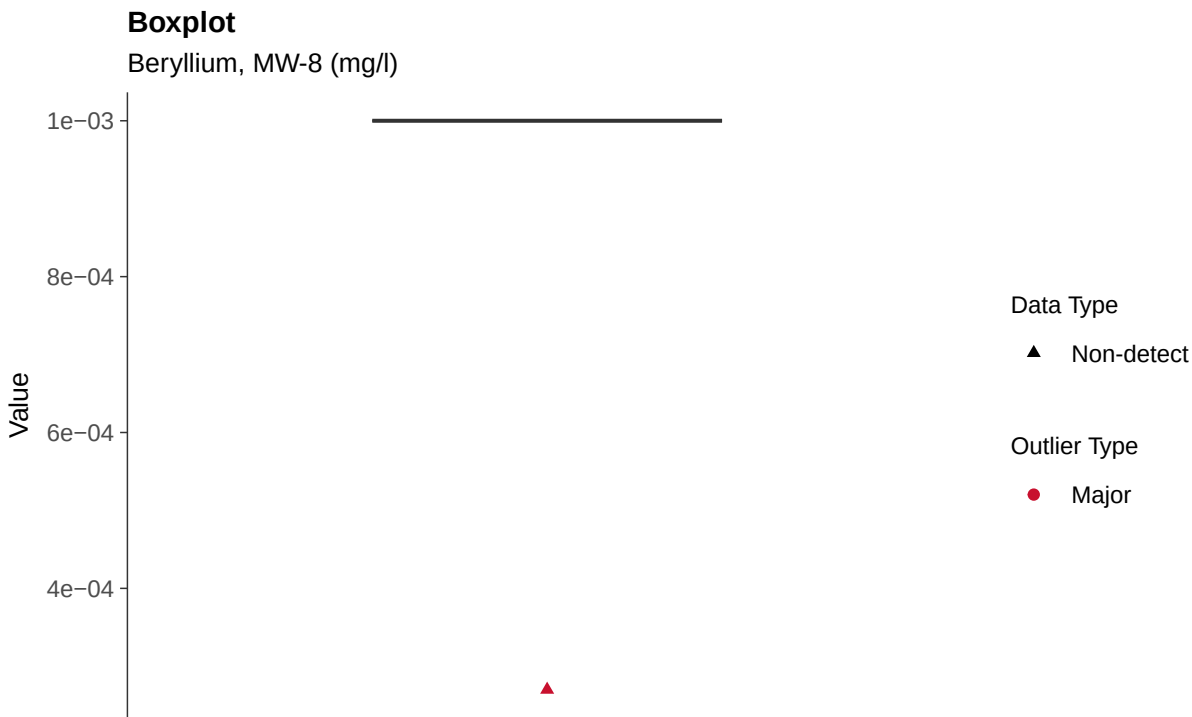


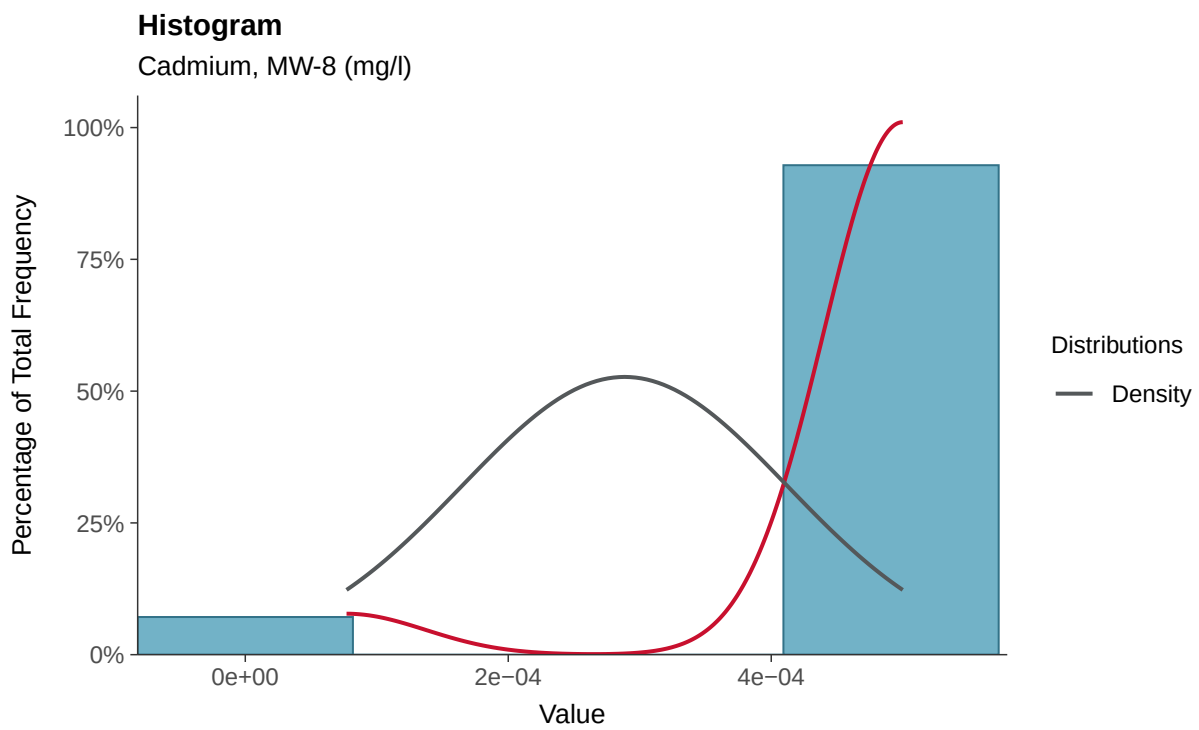


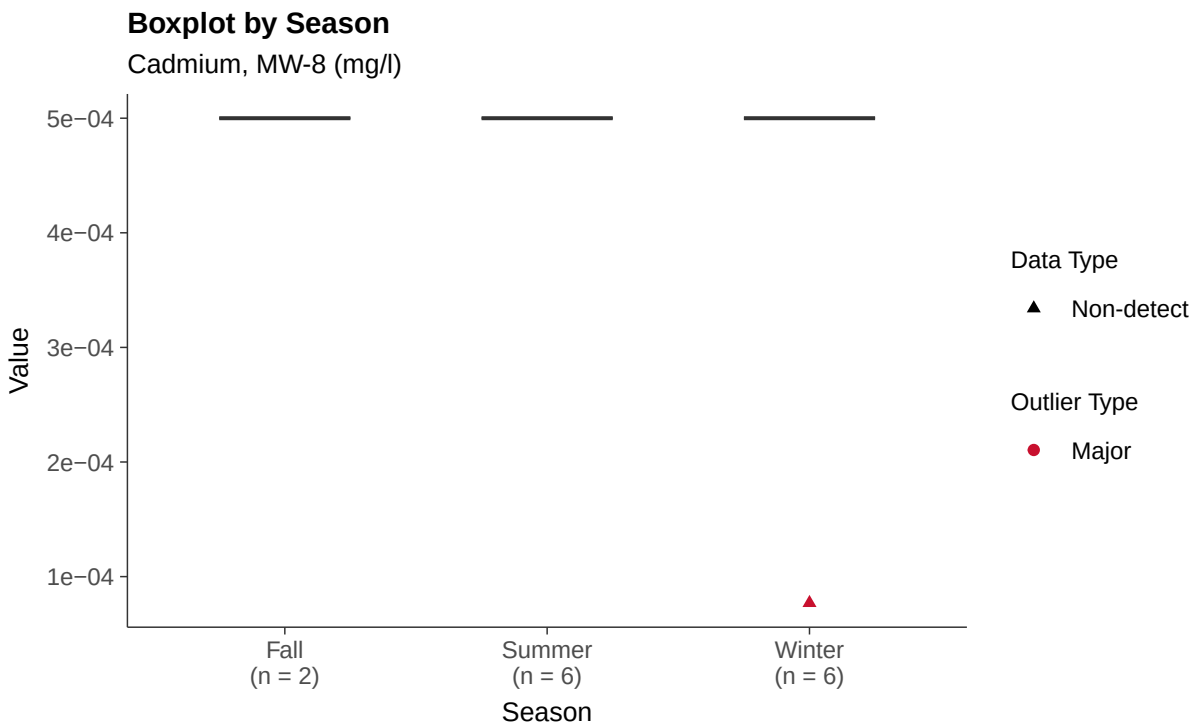
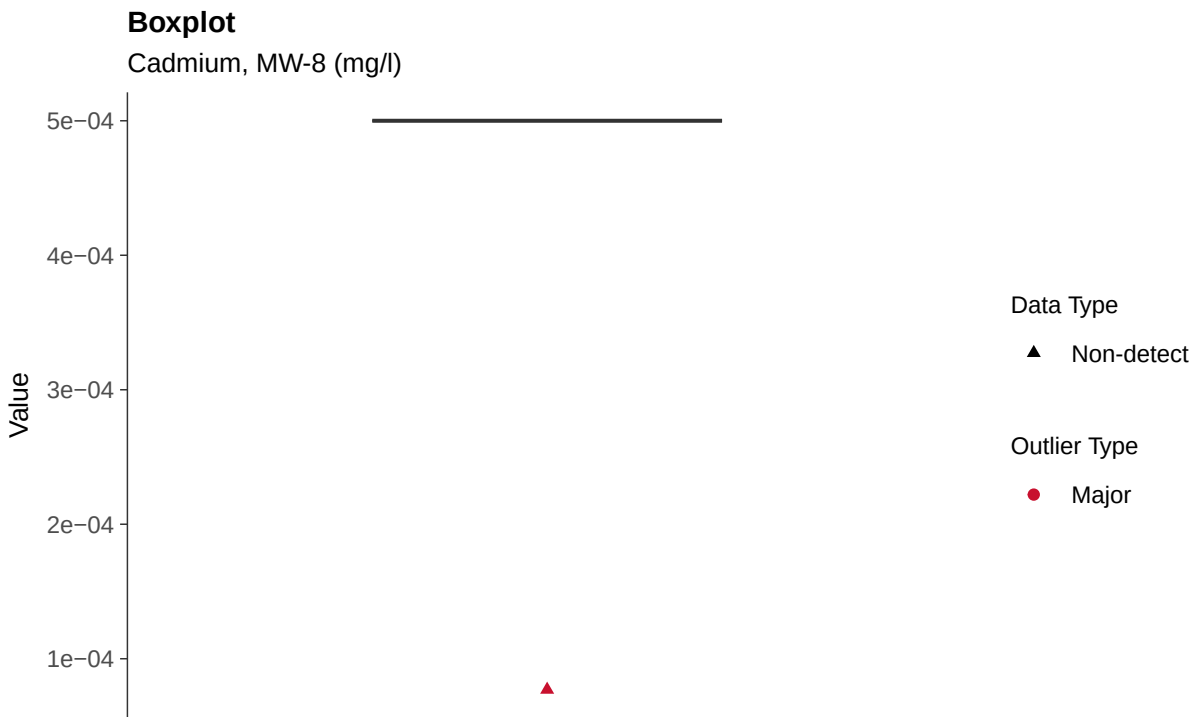








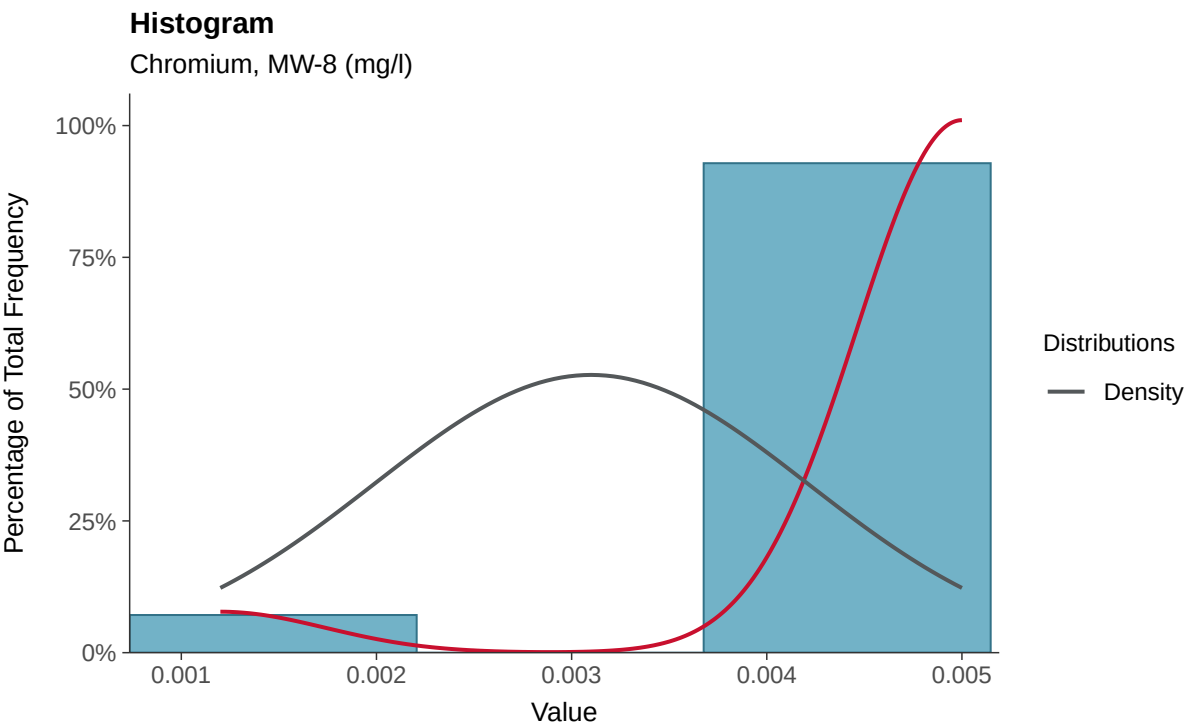
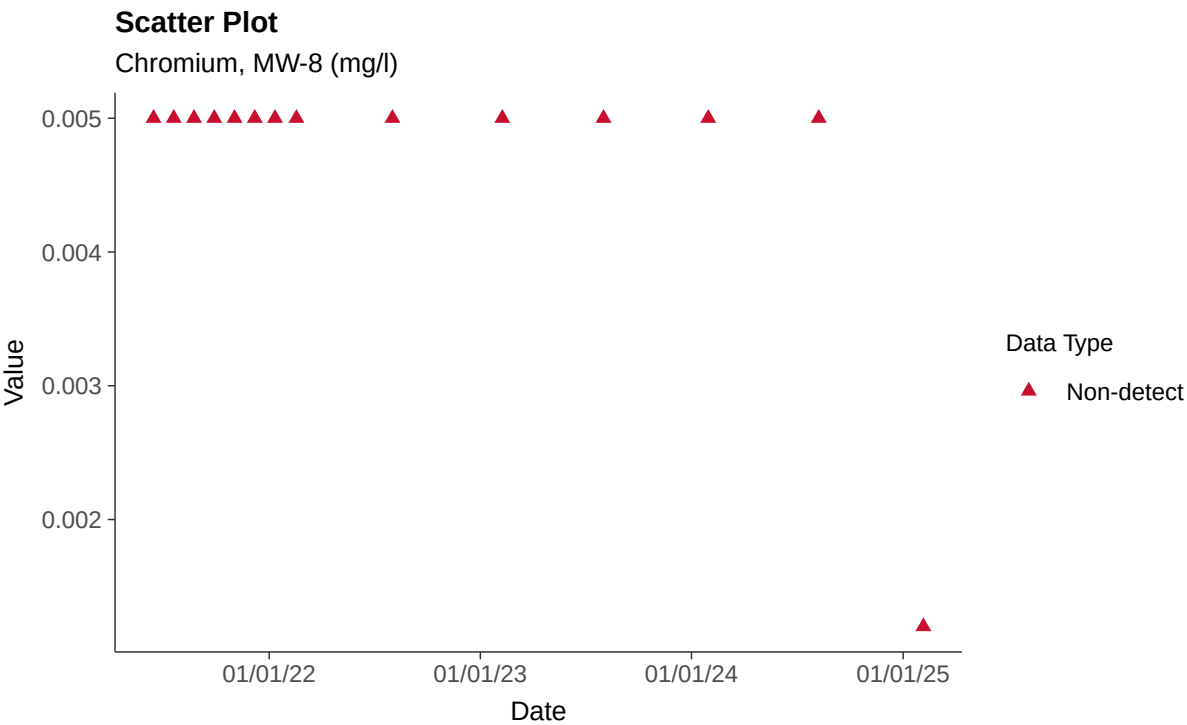


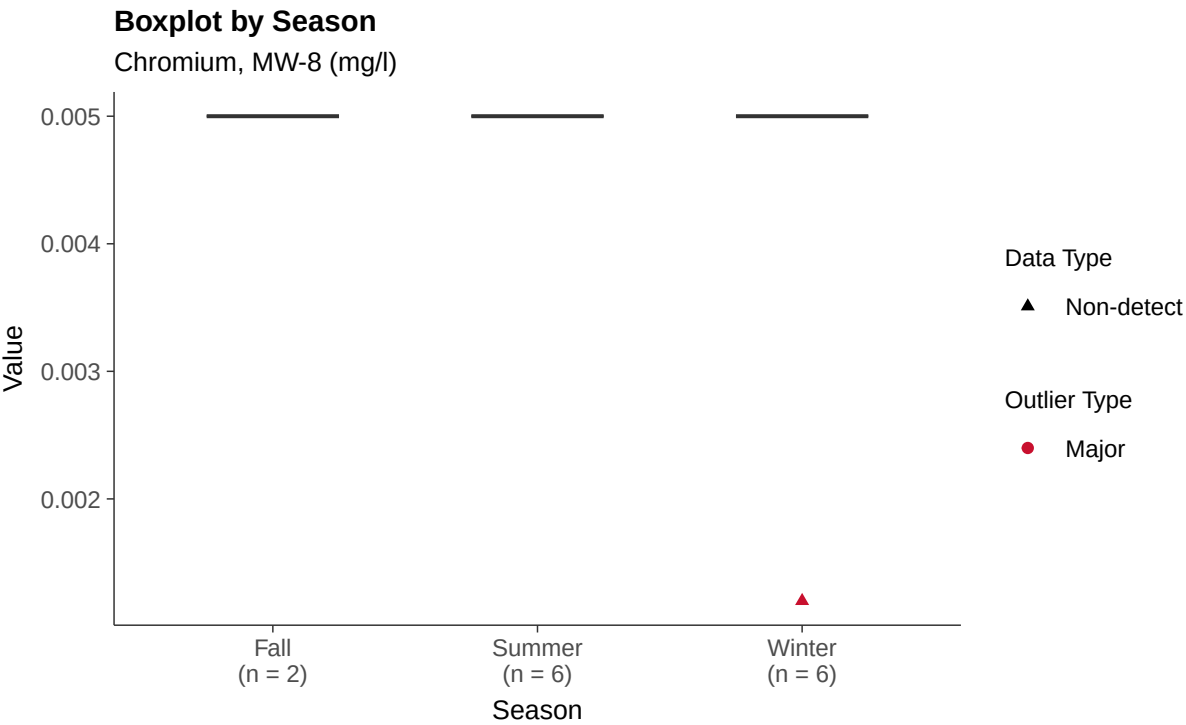
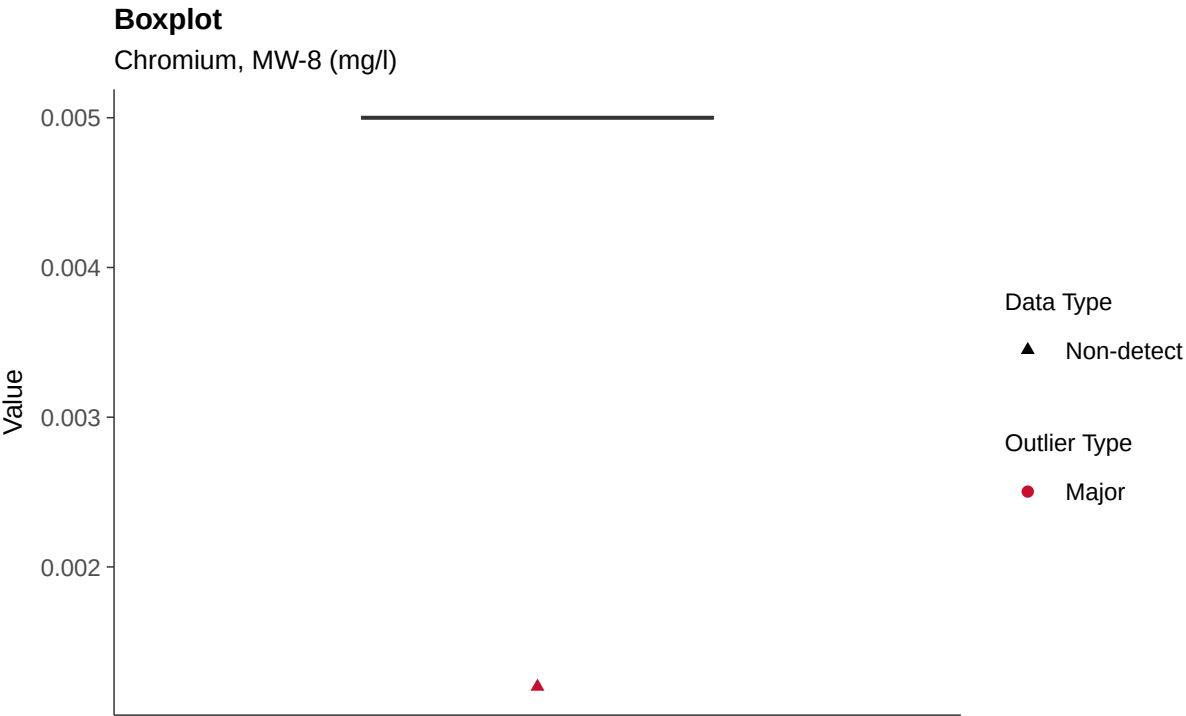




Appendix IV: Chromium, MW-8

ID: 17_3_109

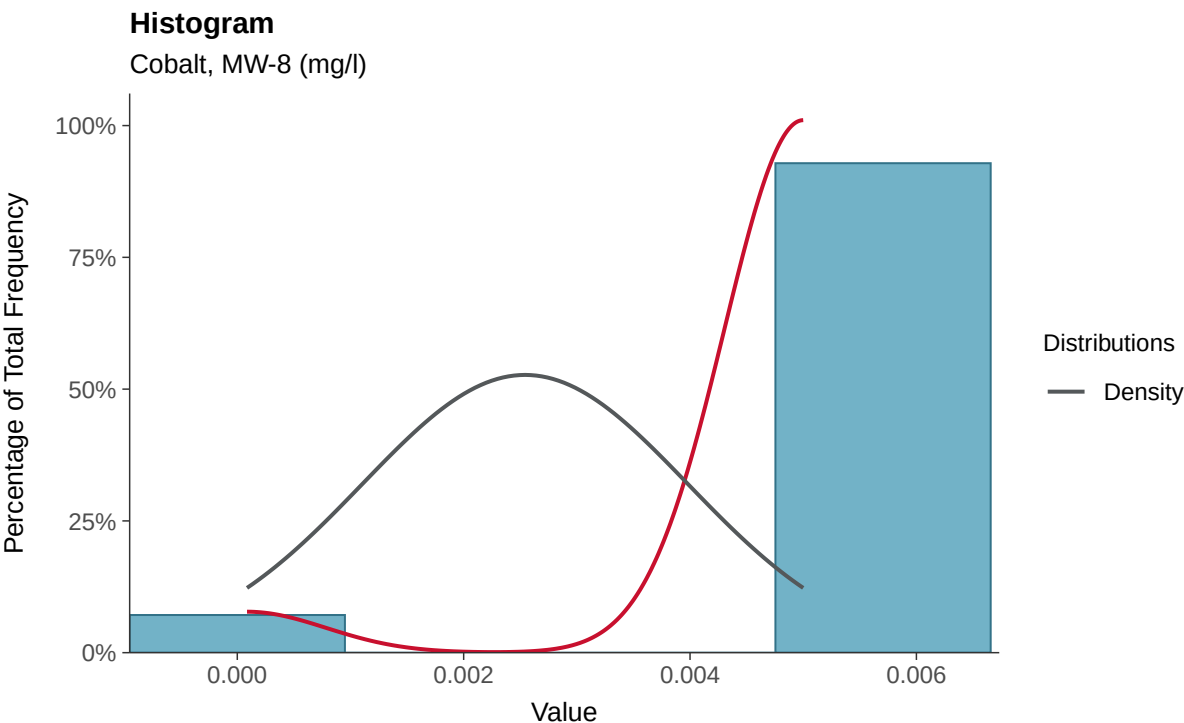
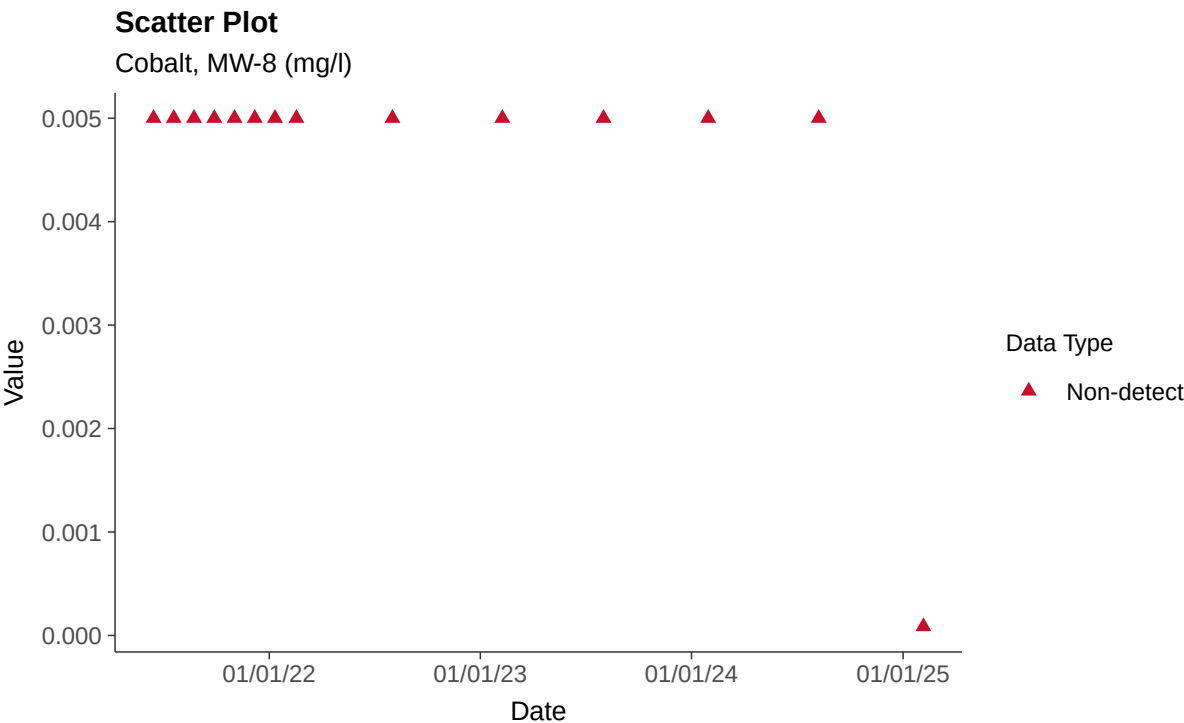


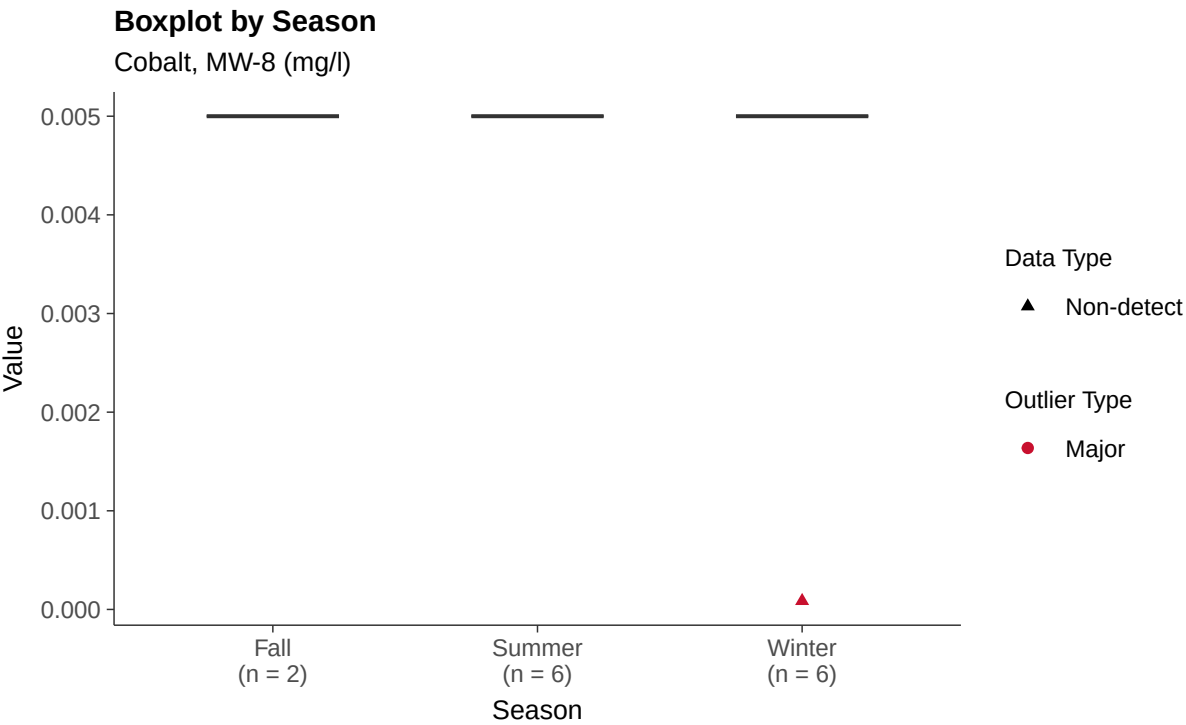
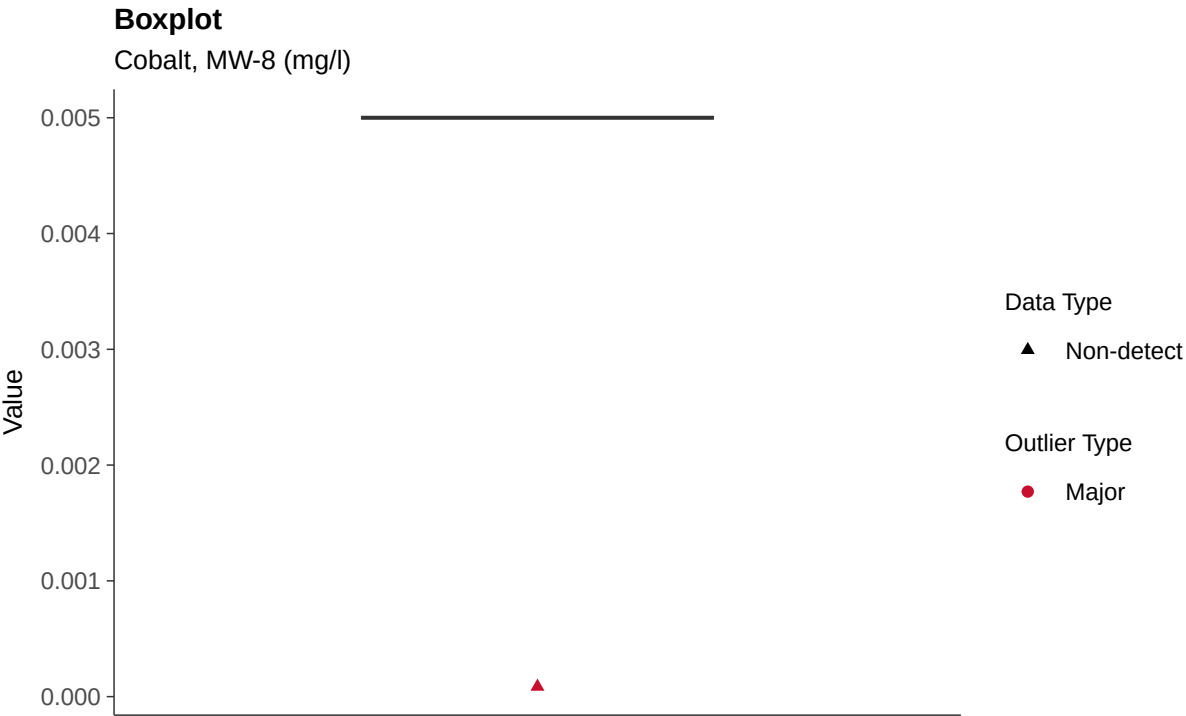




Appendix IV: Cobalt, MW-8

ID: 17_3_110

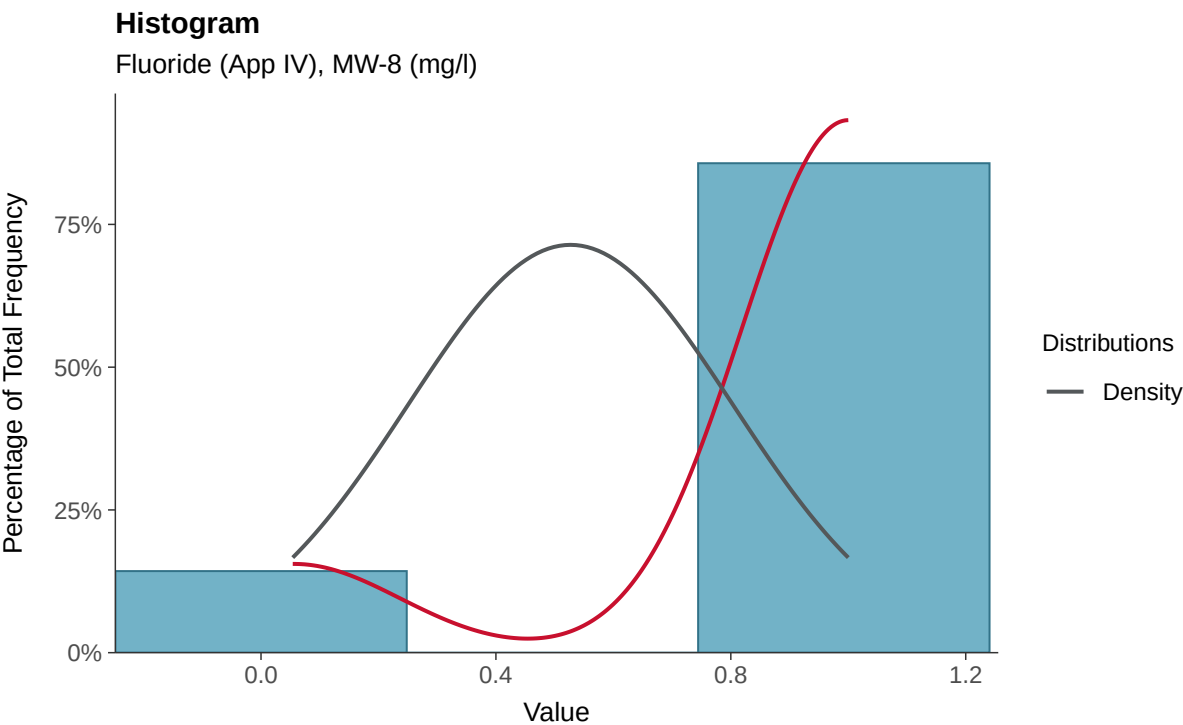
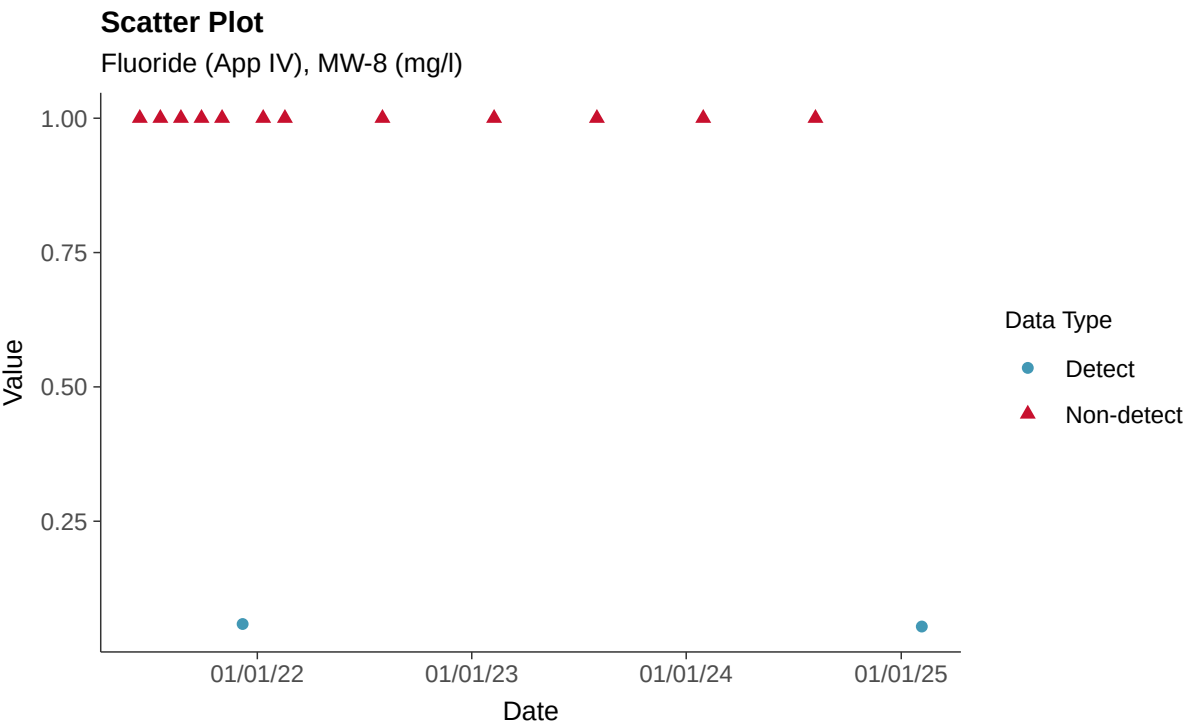


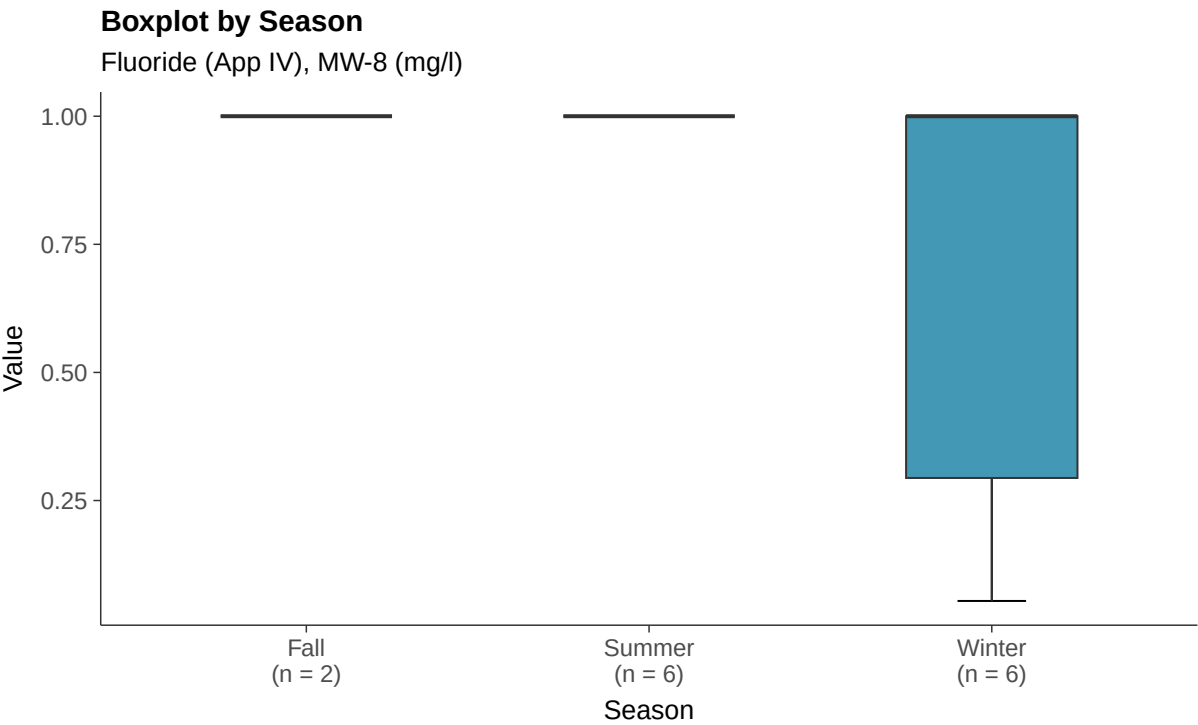
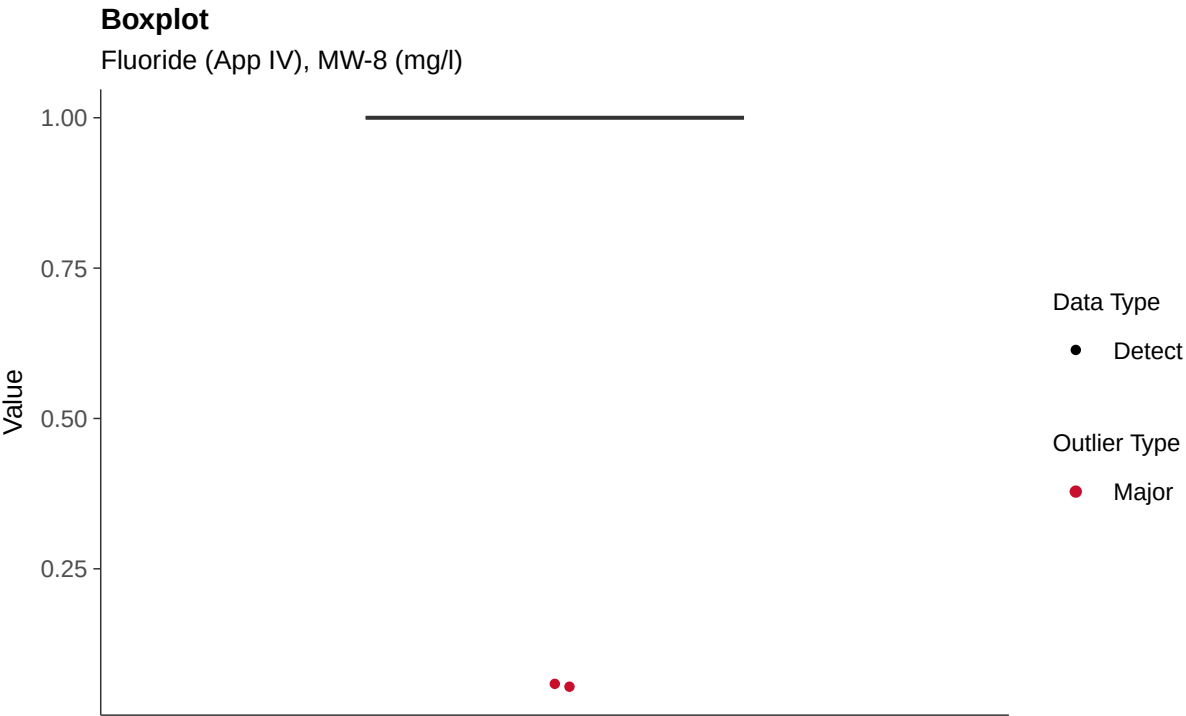


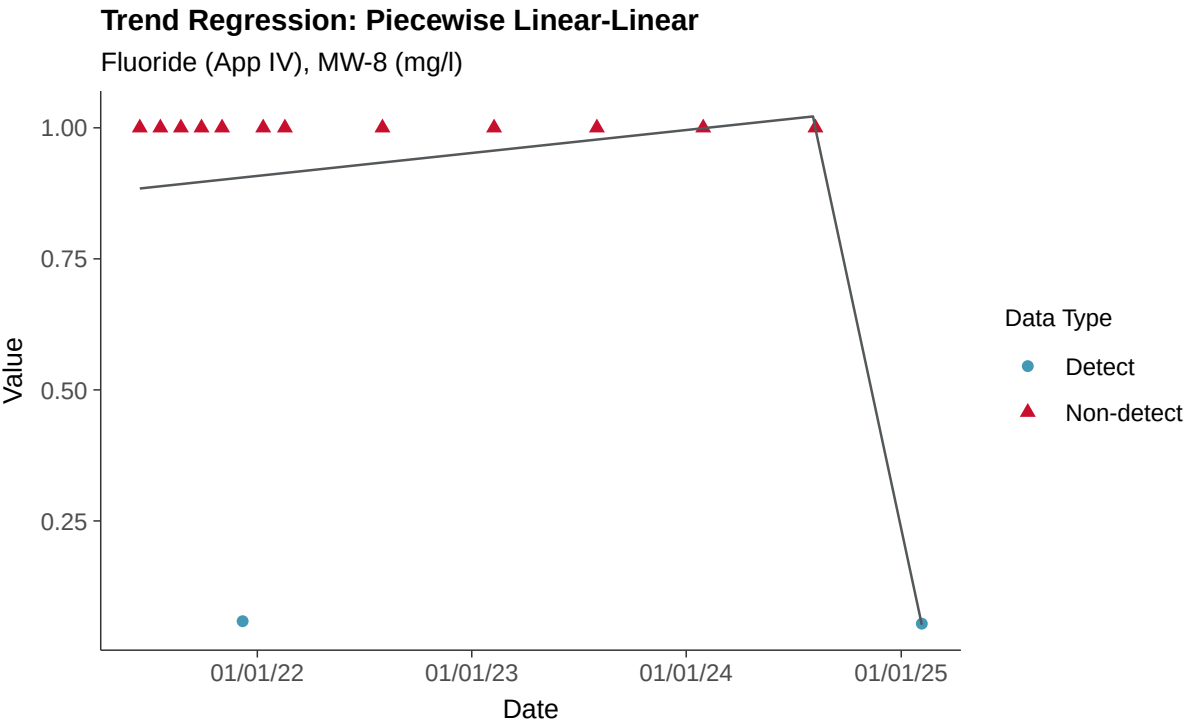
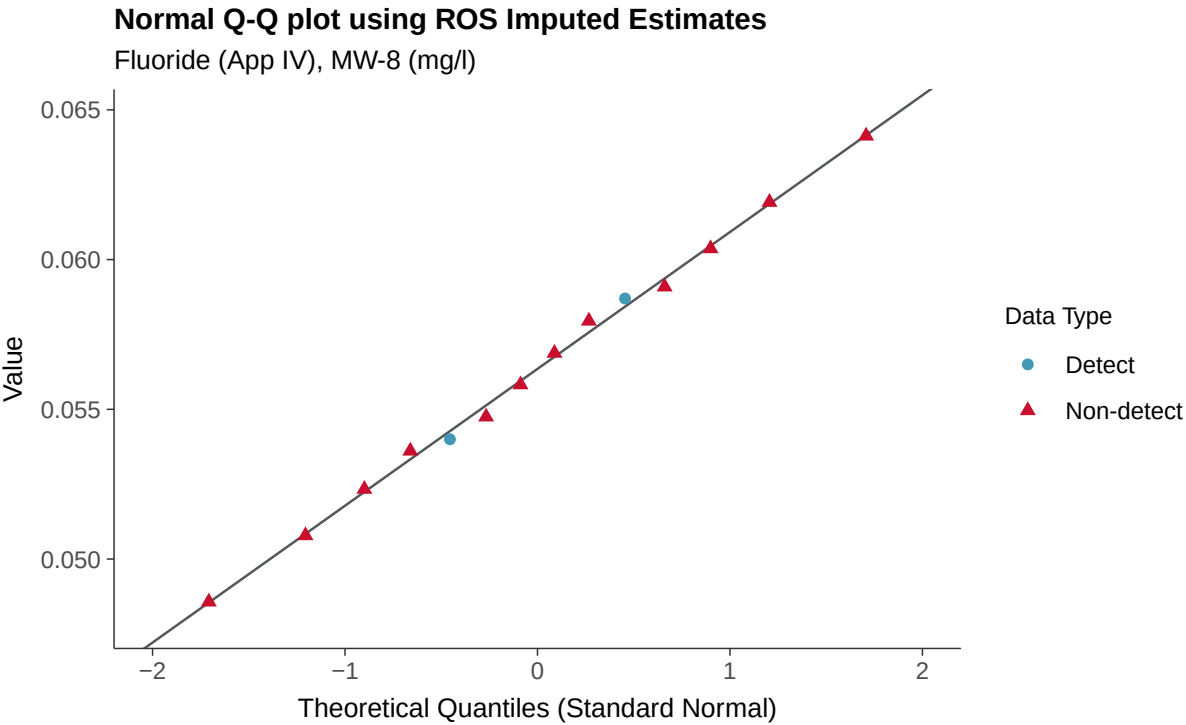


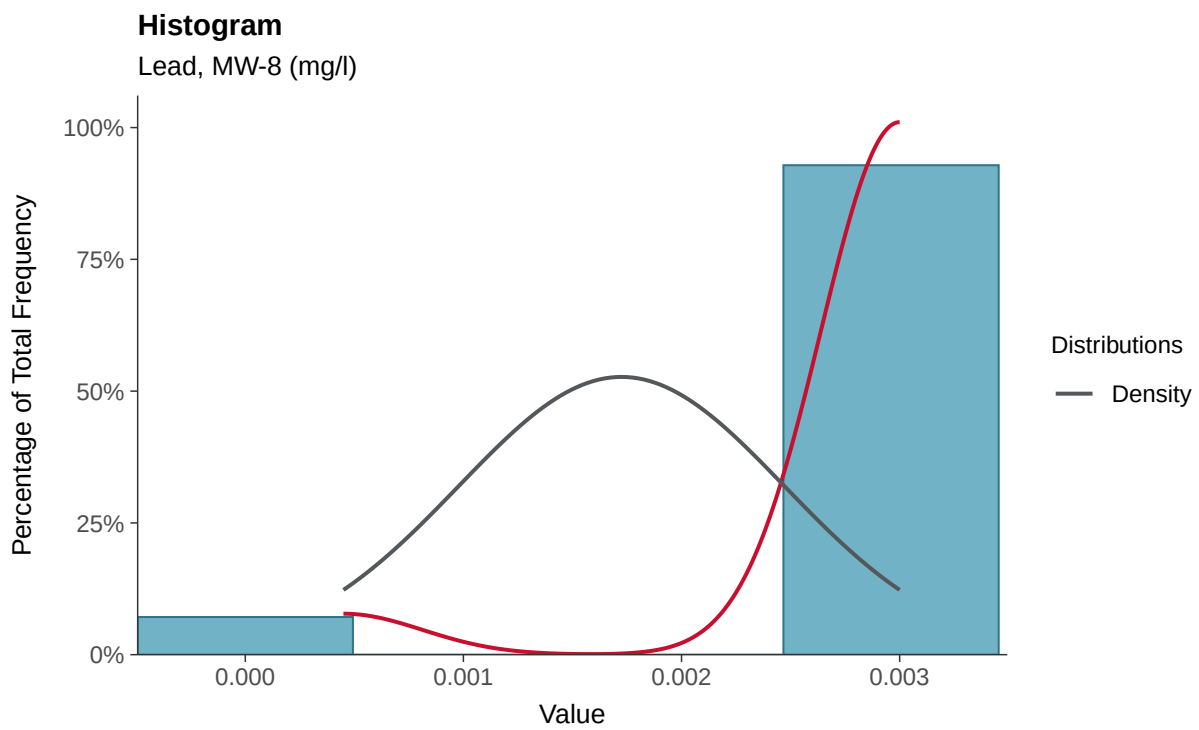
Appendix IV: Fluoride (App IV), MW-8

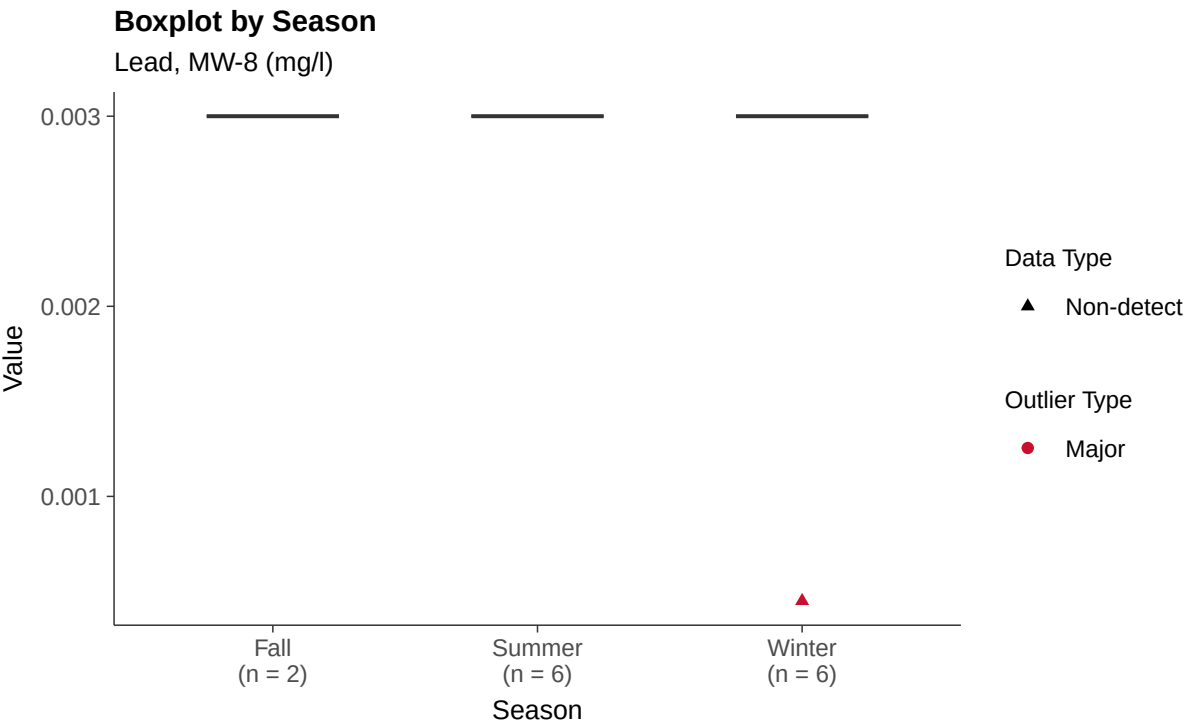
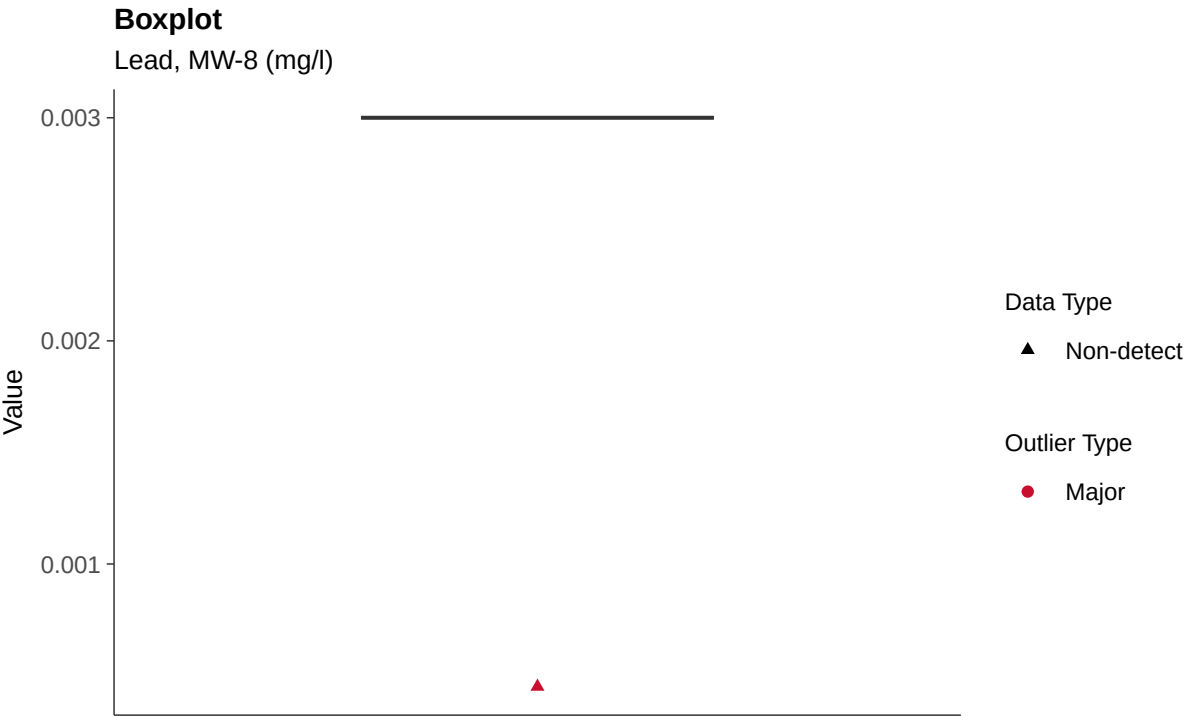
ID: 17_3_113







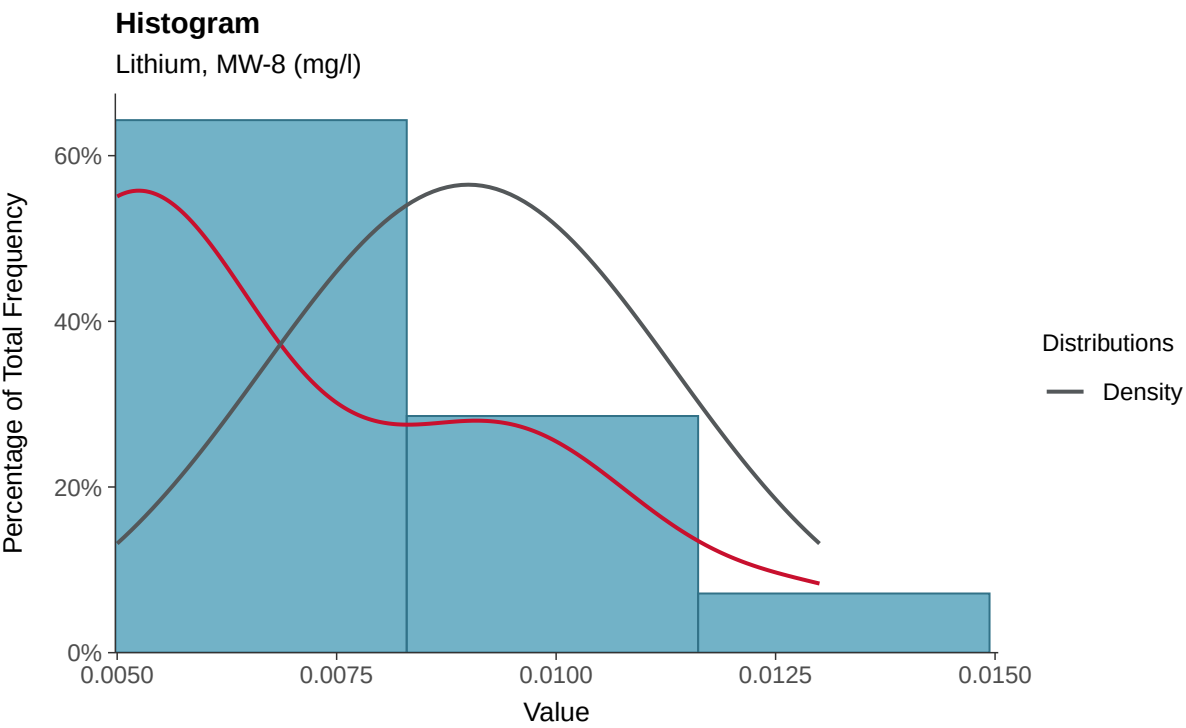
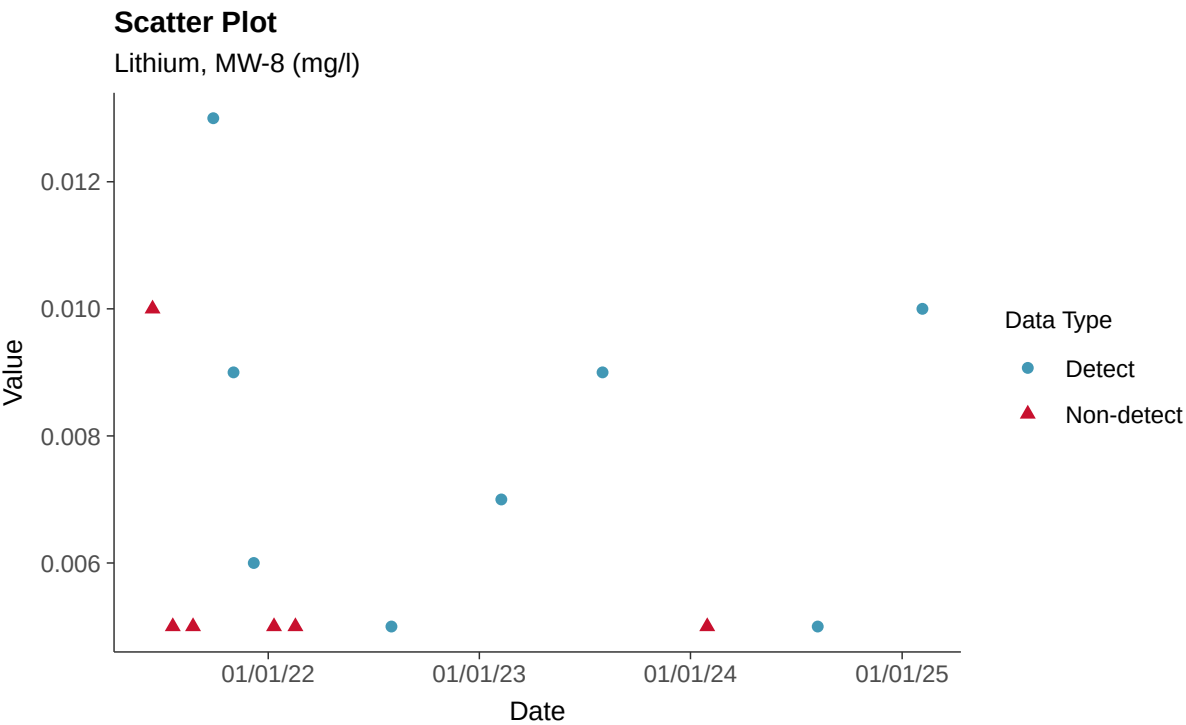


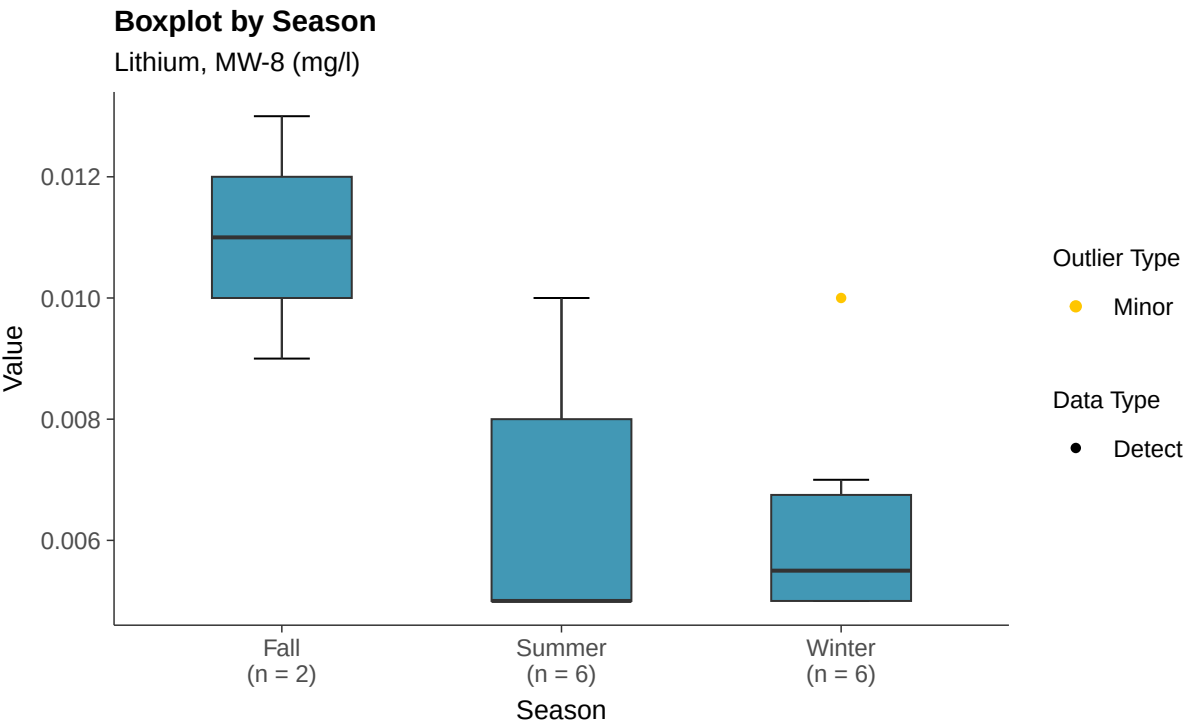
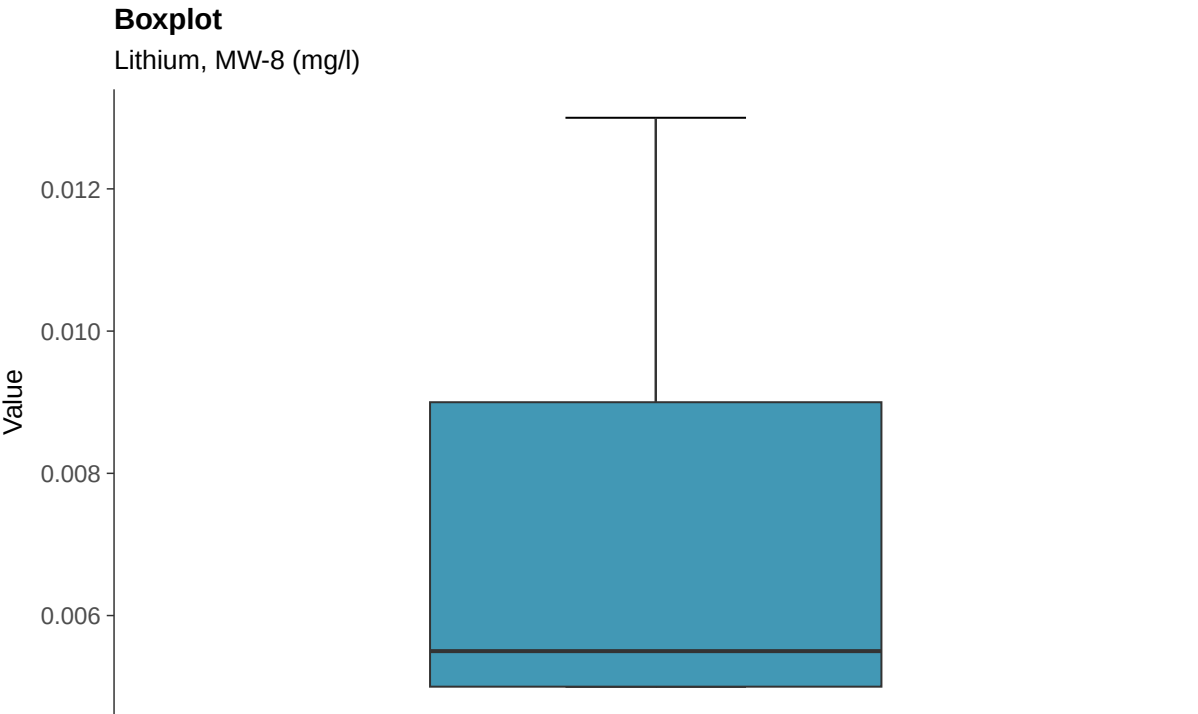


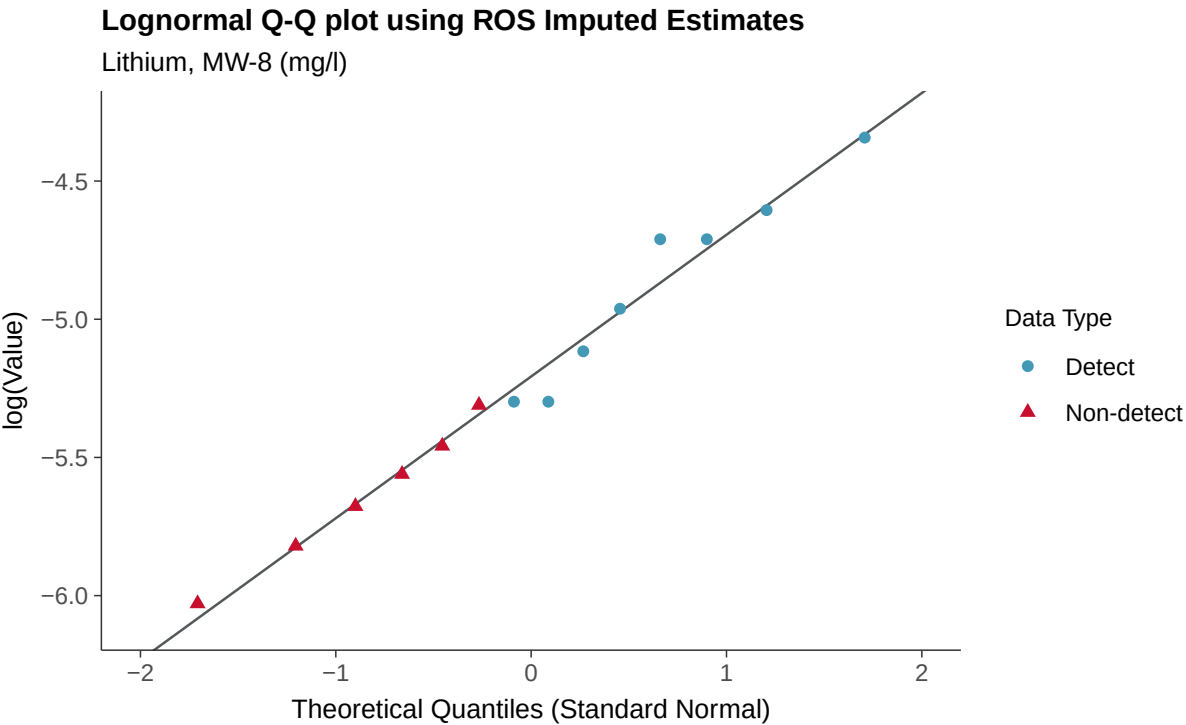
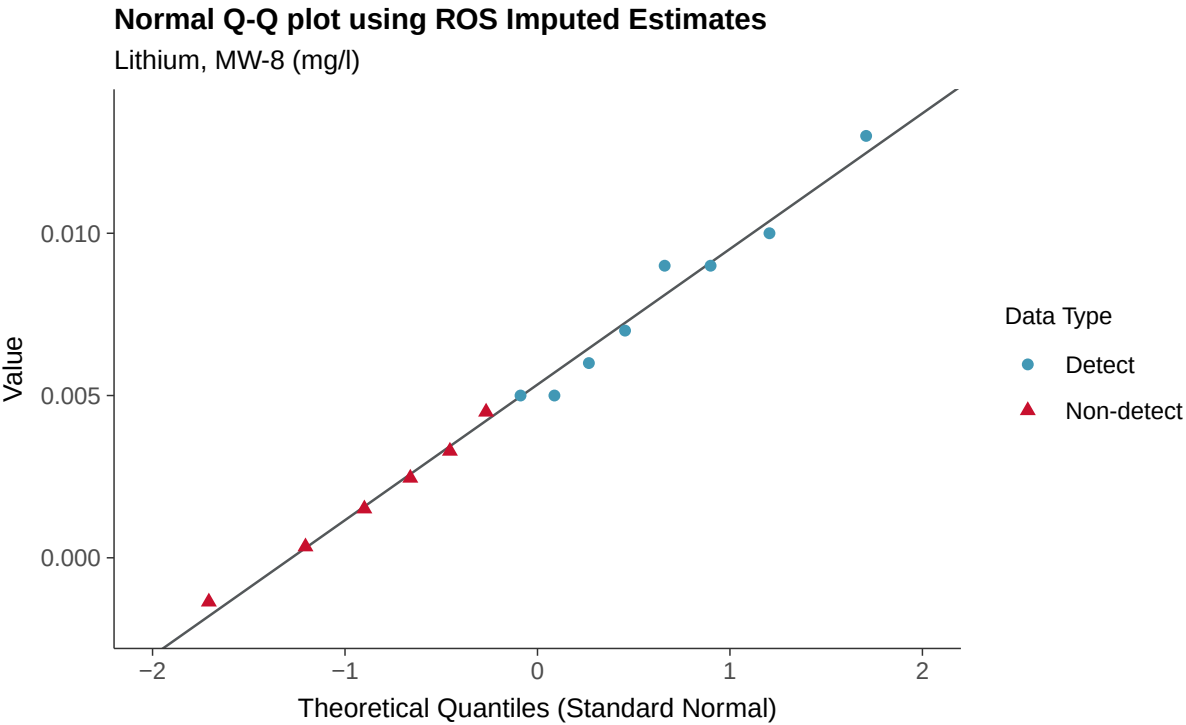


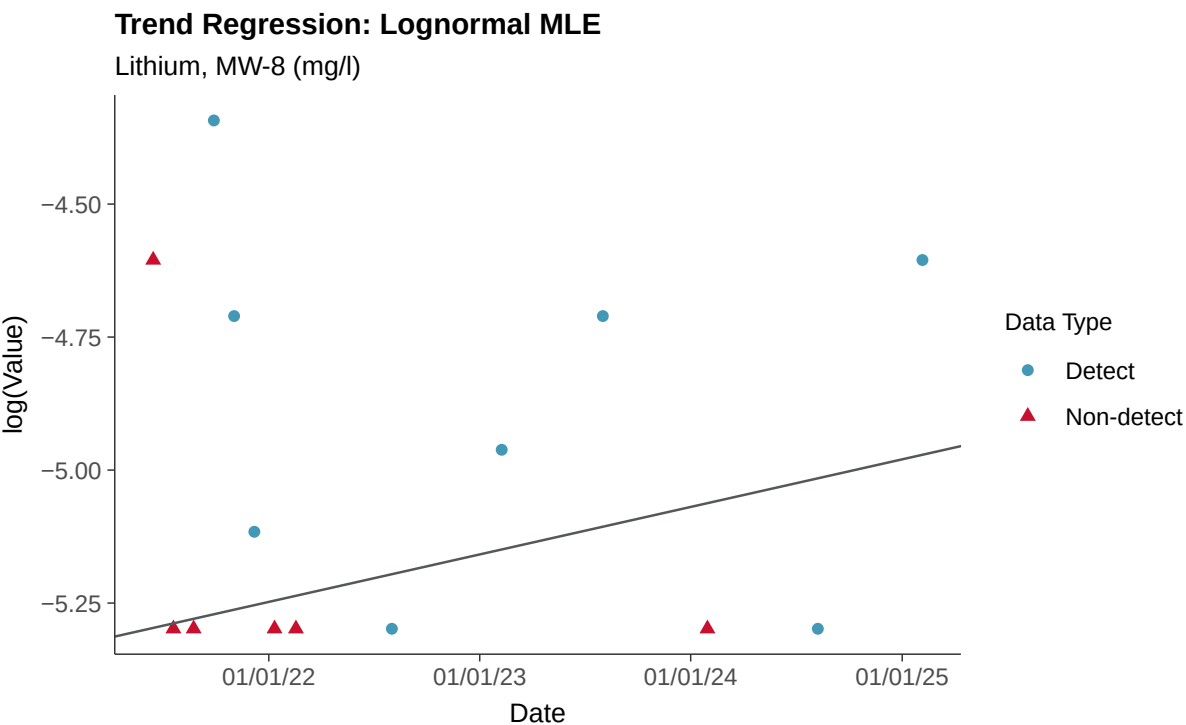
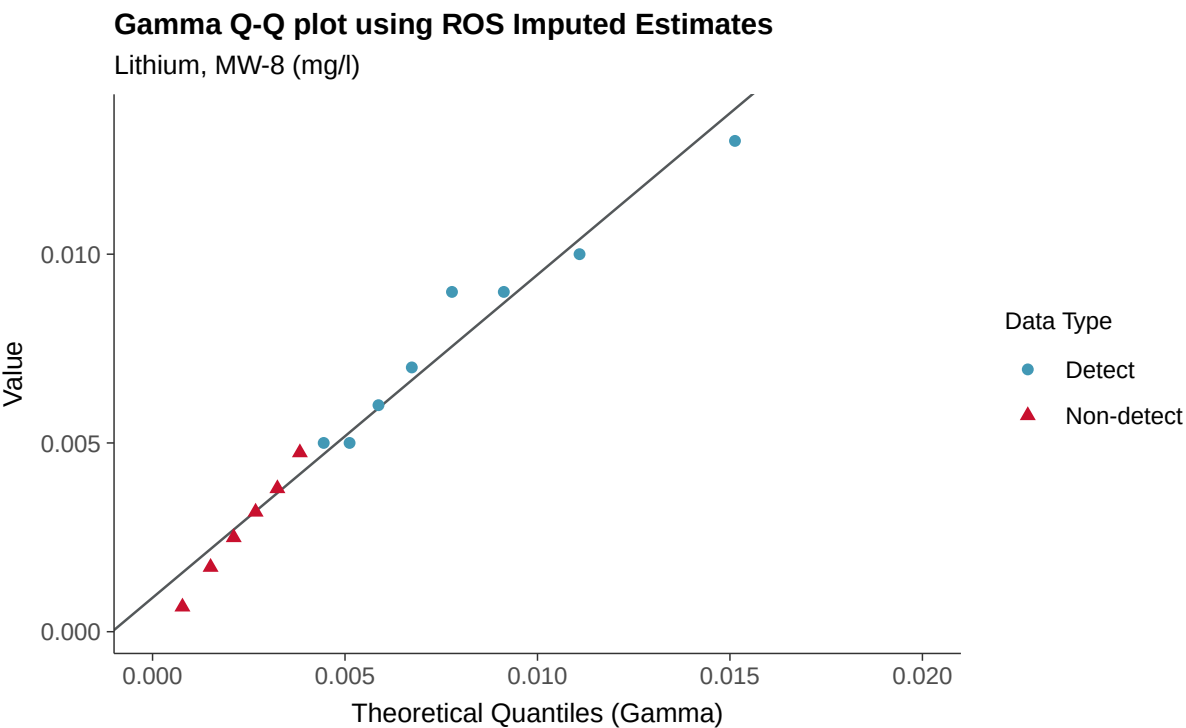
Appendix IV: Lithium, MW-8

ID: 17_3_116





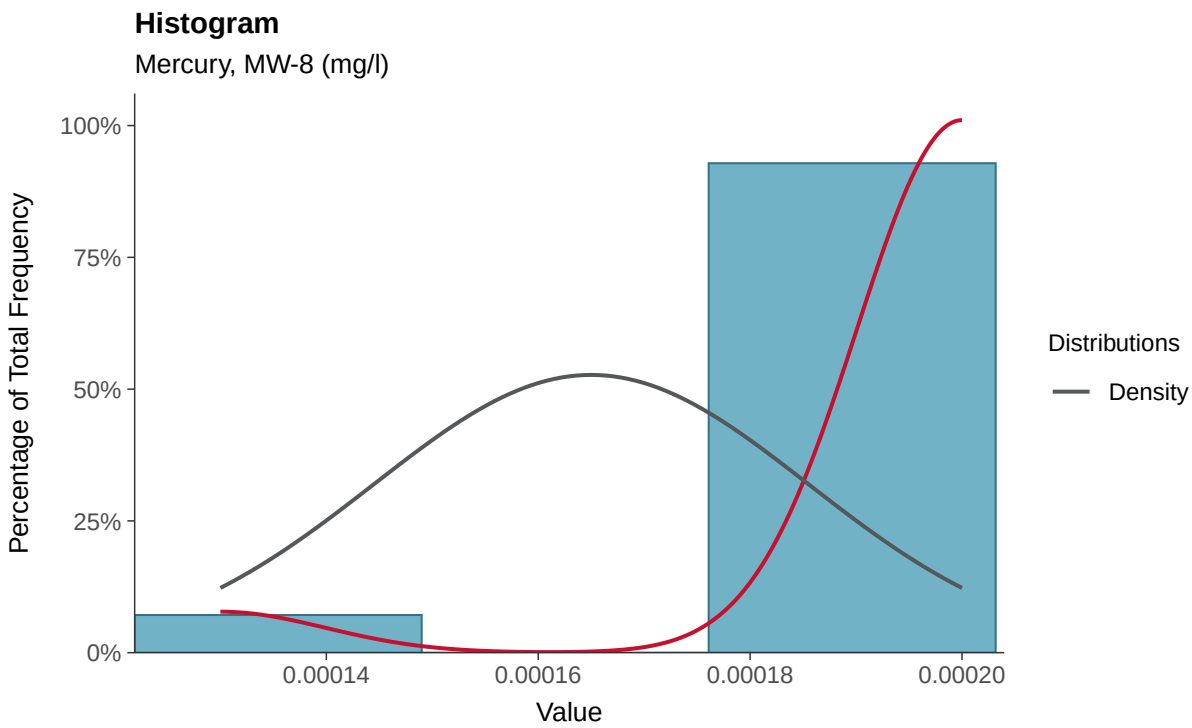
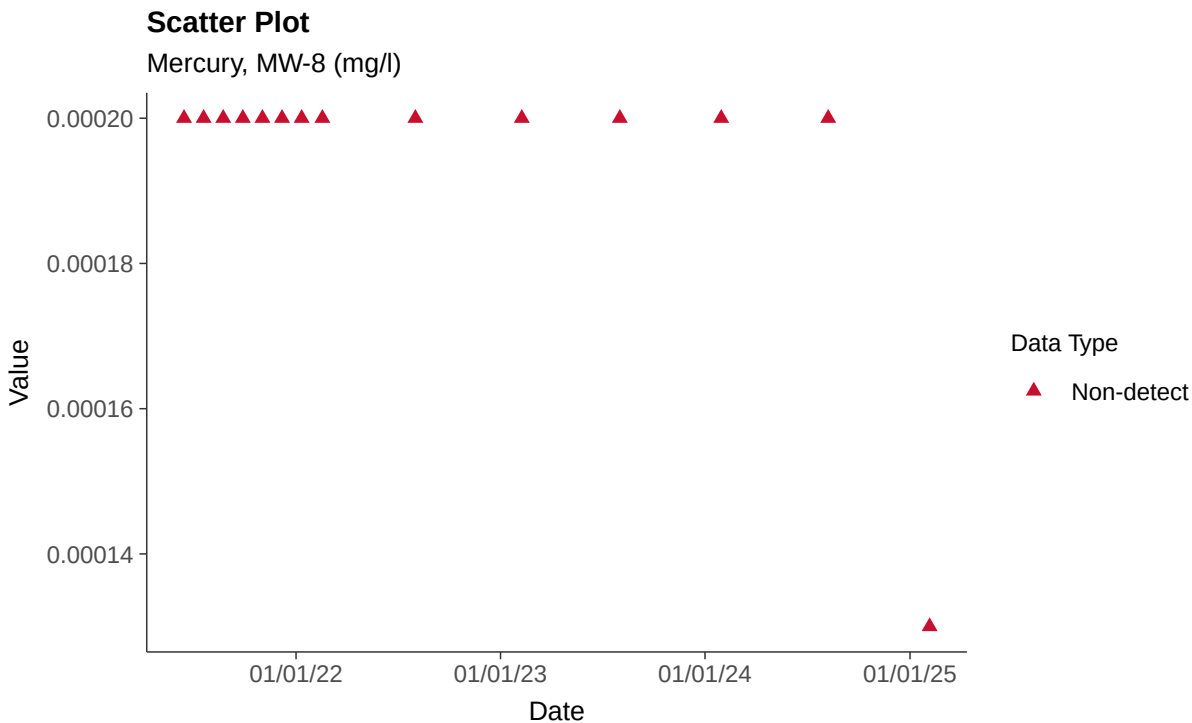


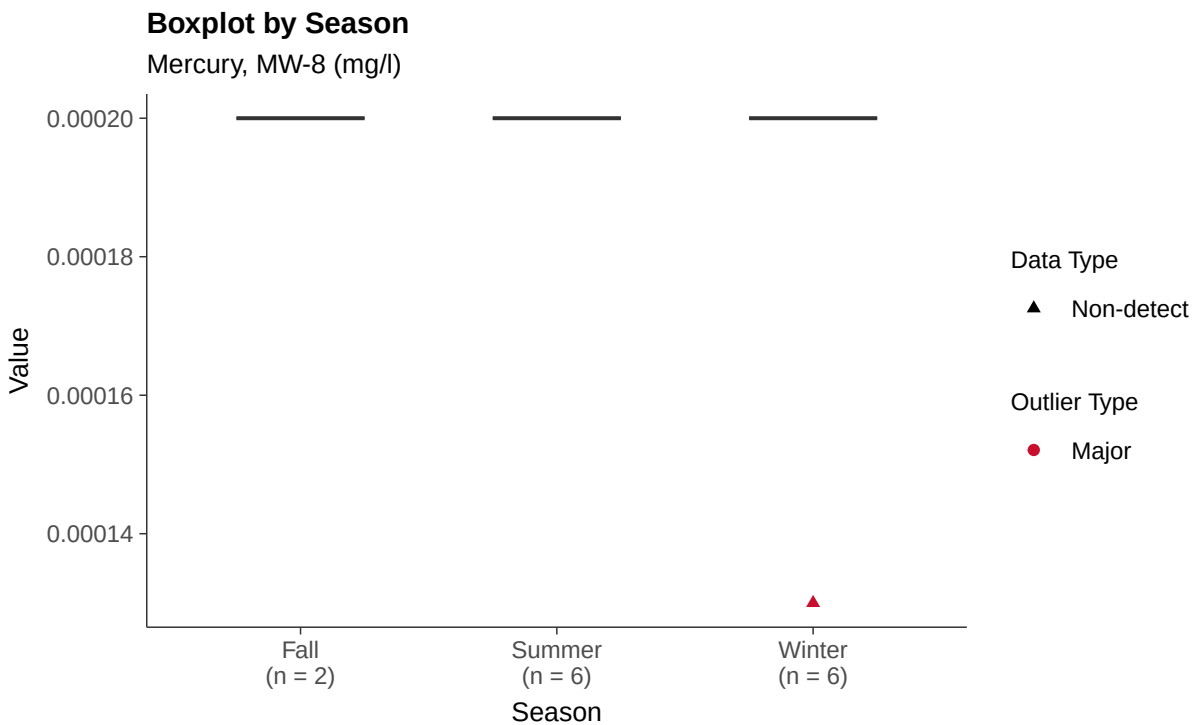
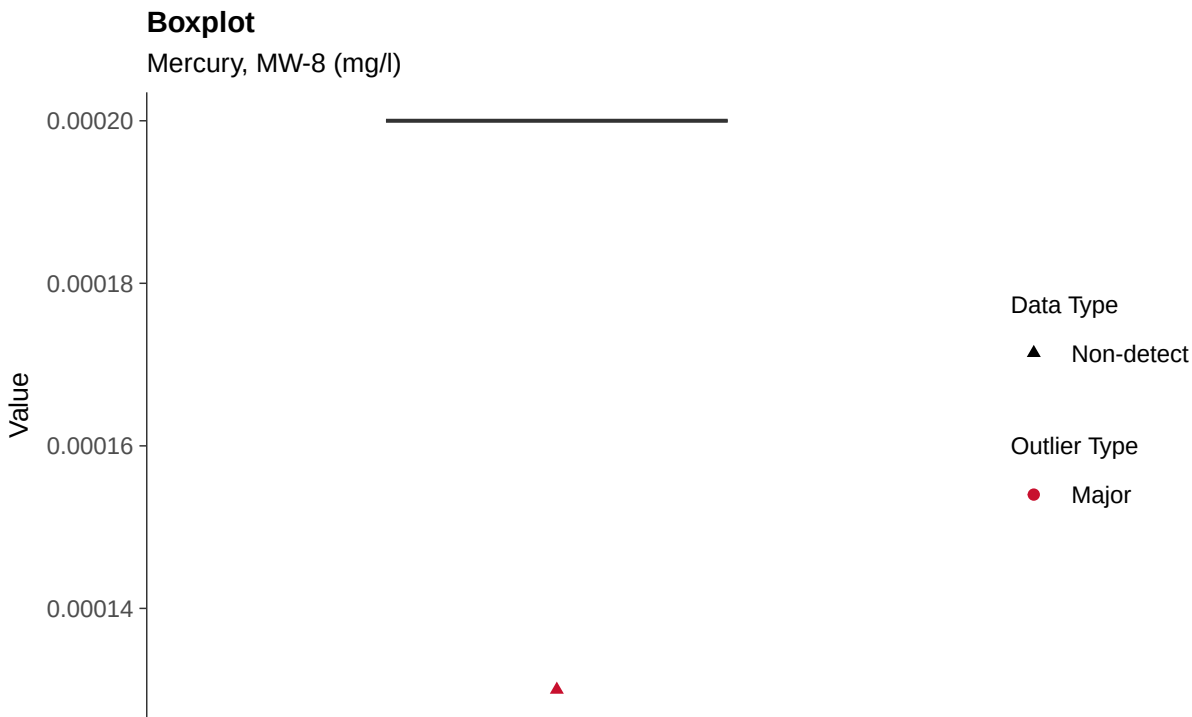




Appendix IV: Mercury, MW-8

ID: 17_3_117

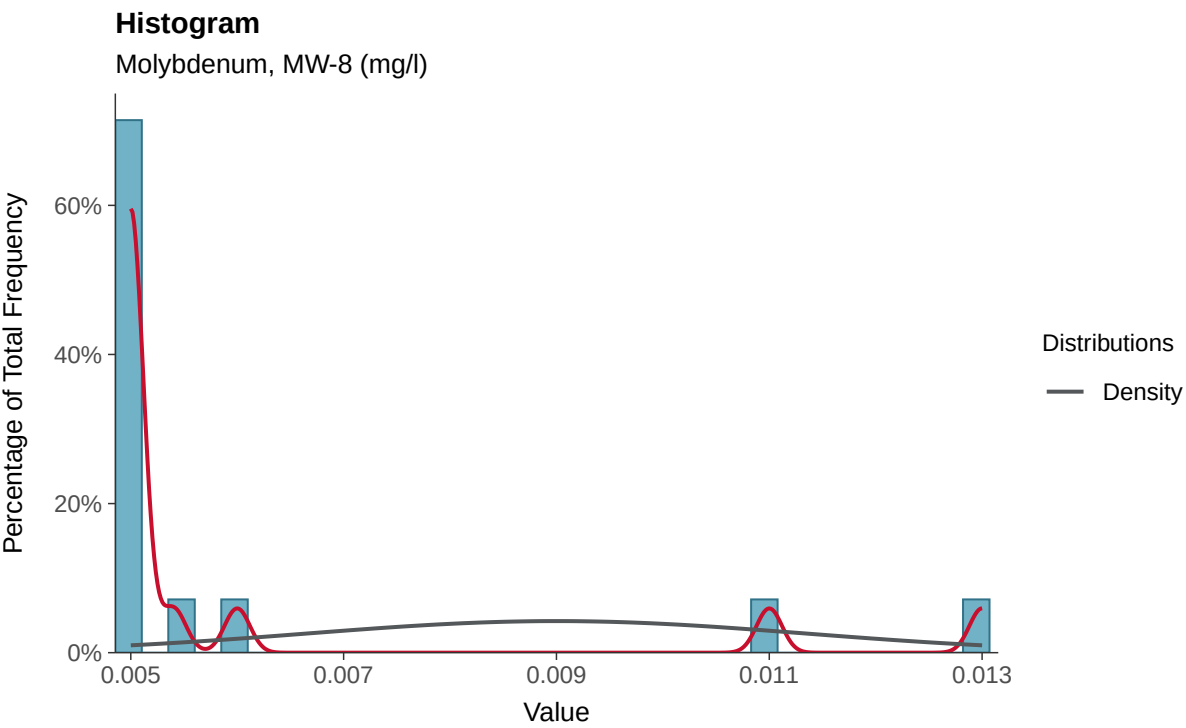
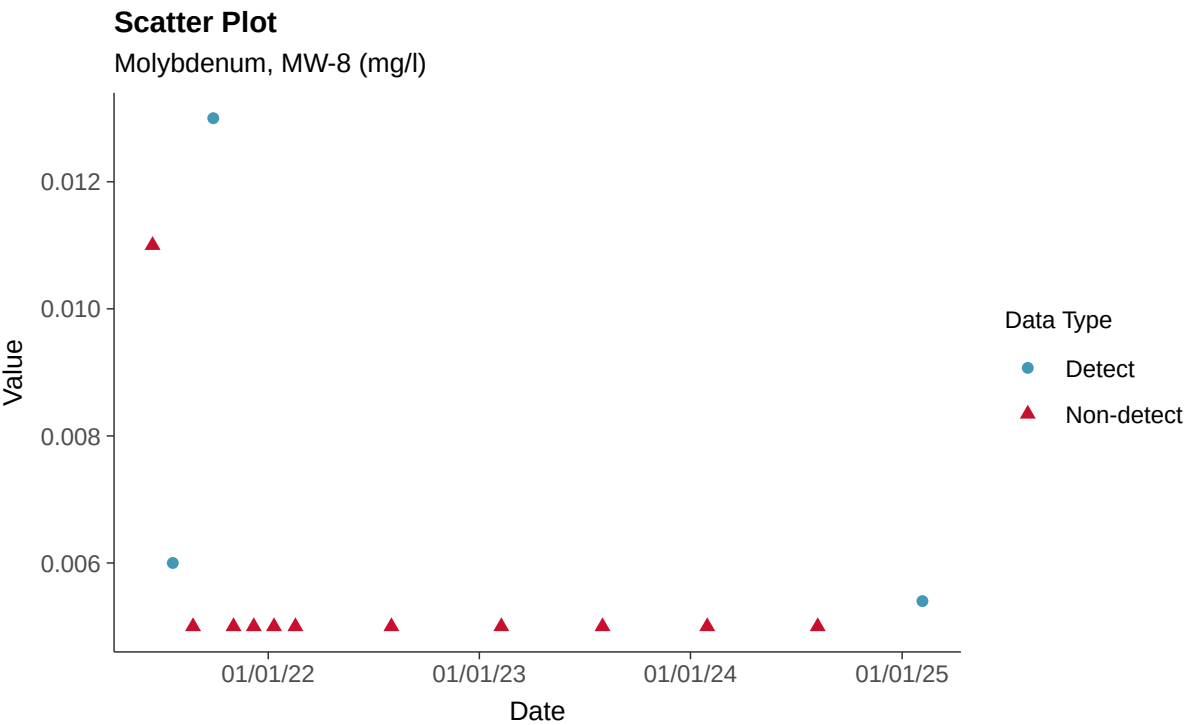


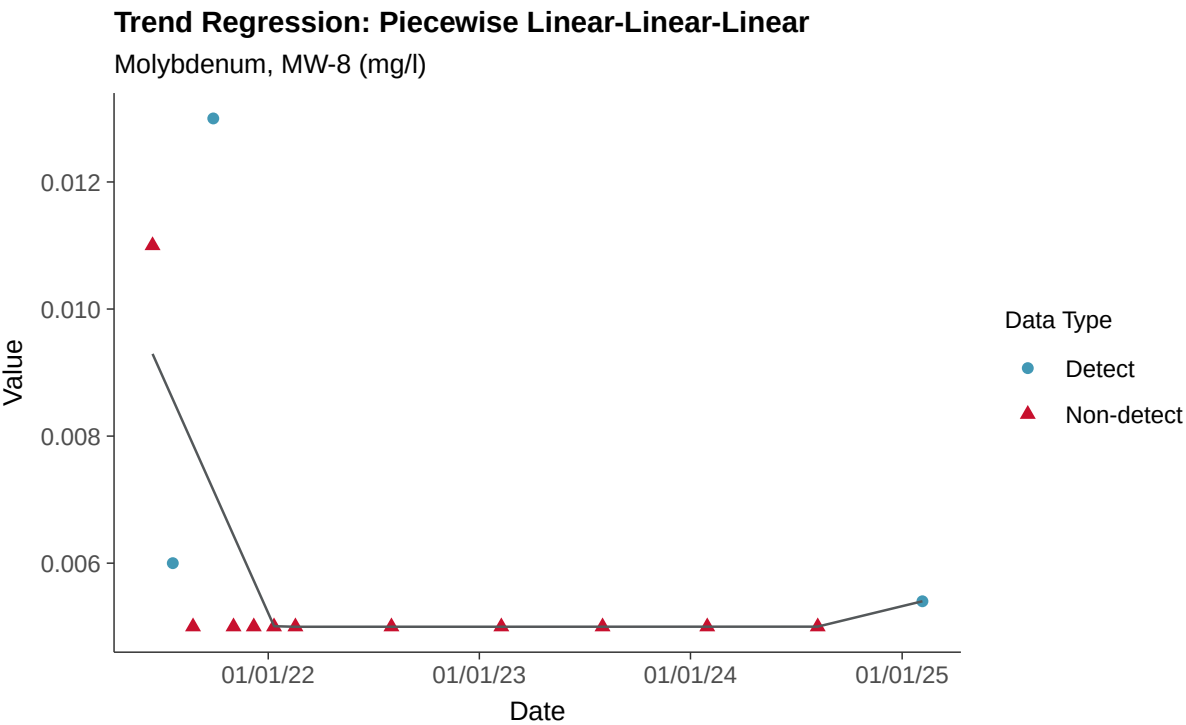
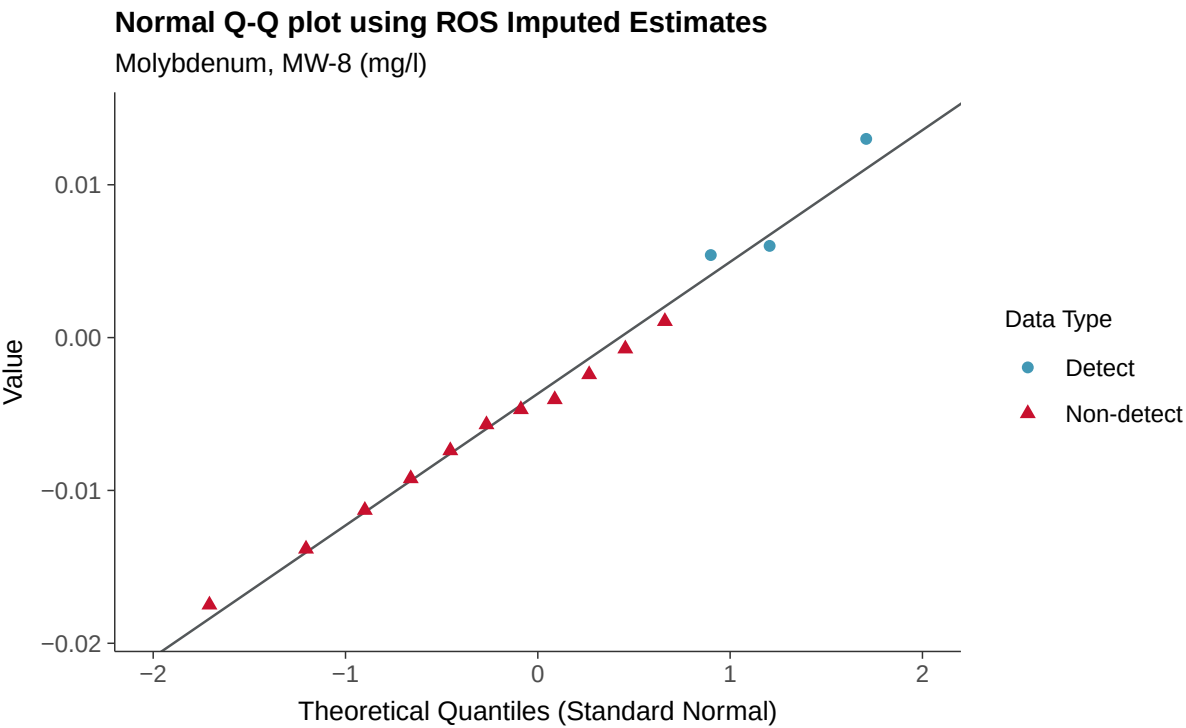




Appendix IV: Molybdenum, MW-8

ID: 17_3_118

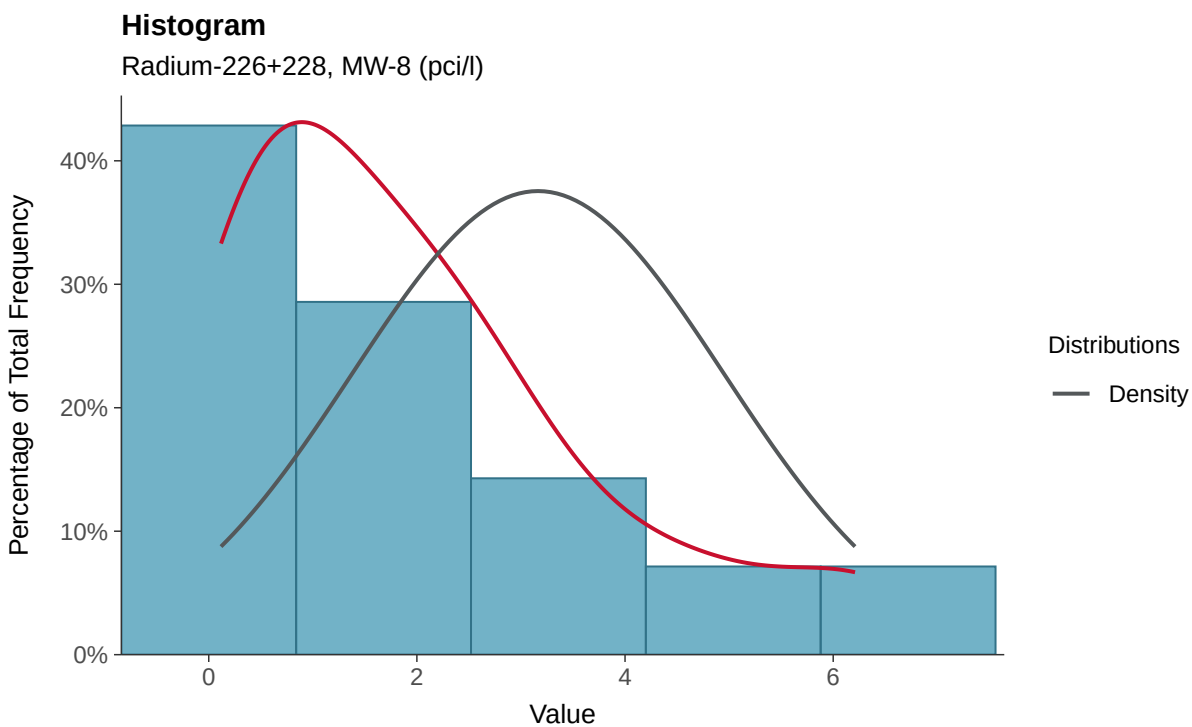
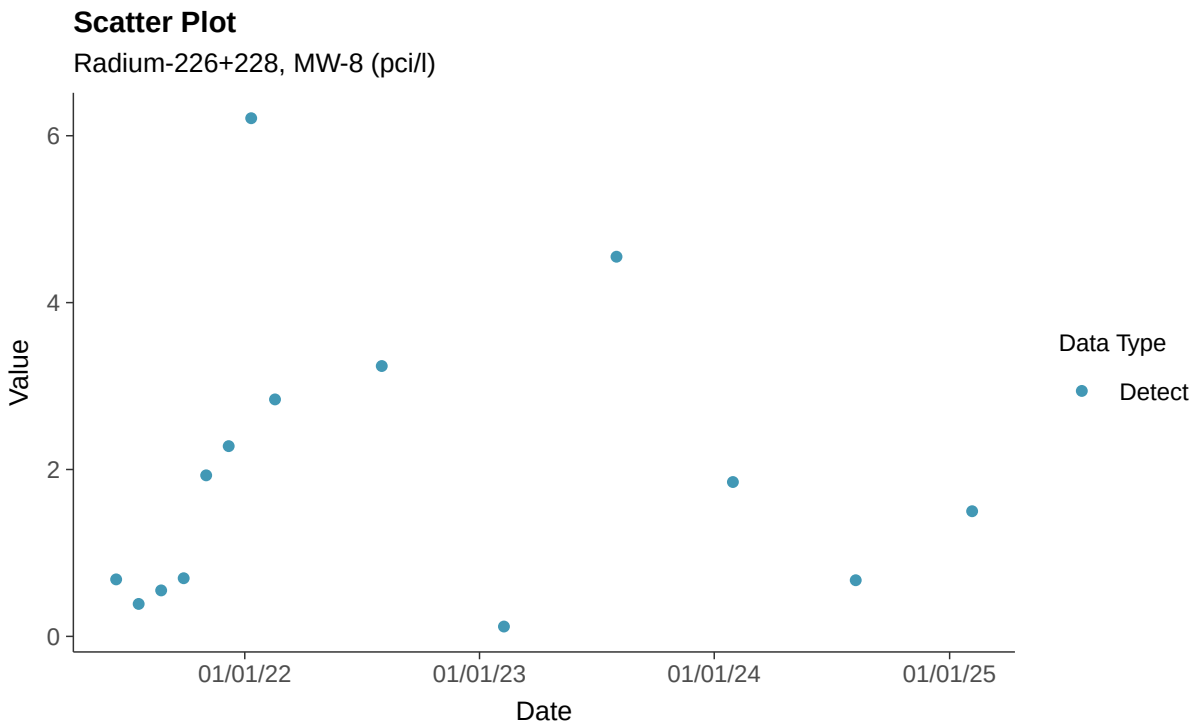






Appendix IV: Radium-226+228, MW-8

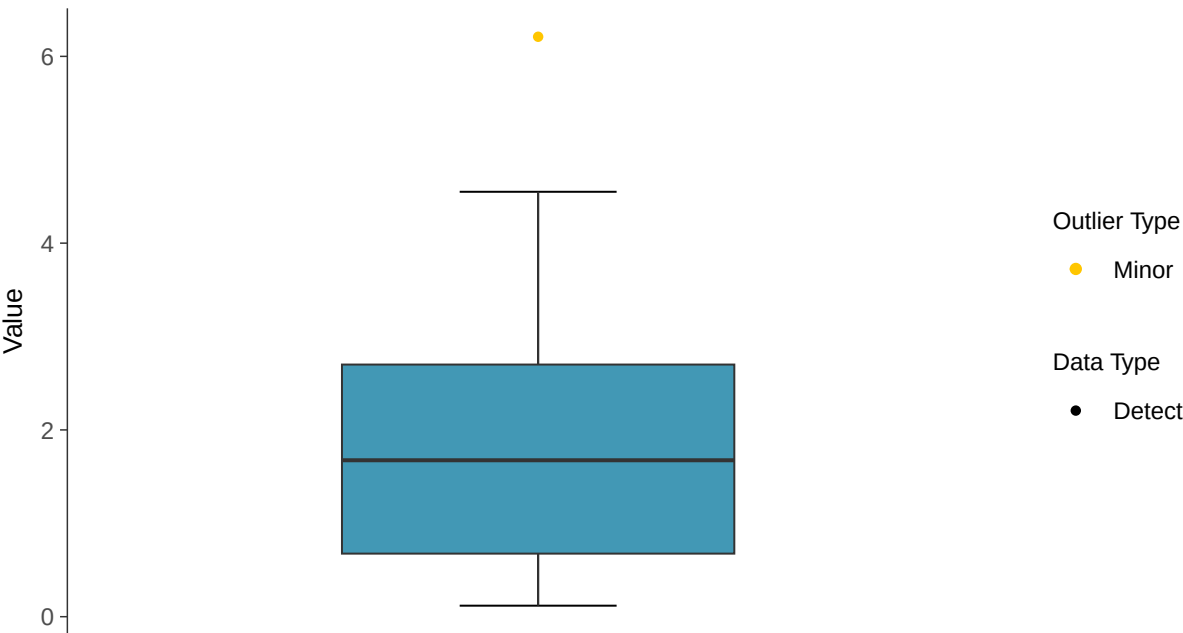
ID: 17_3_121





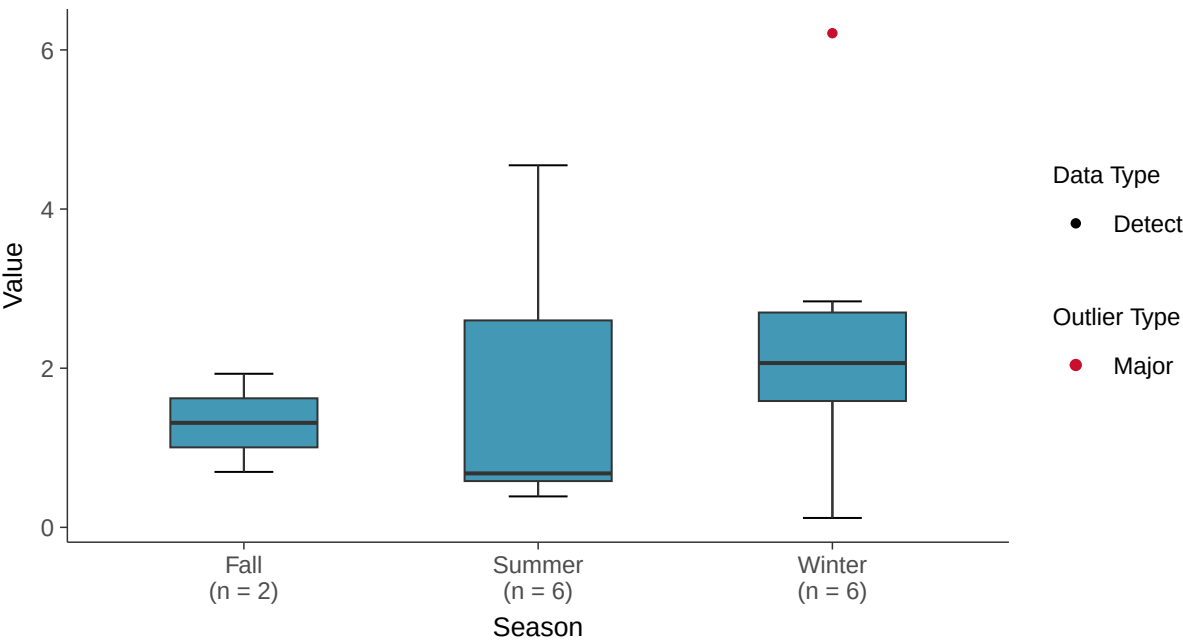
Boxplot

Radium-226+228, MW-8 (pci/l)



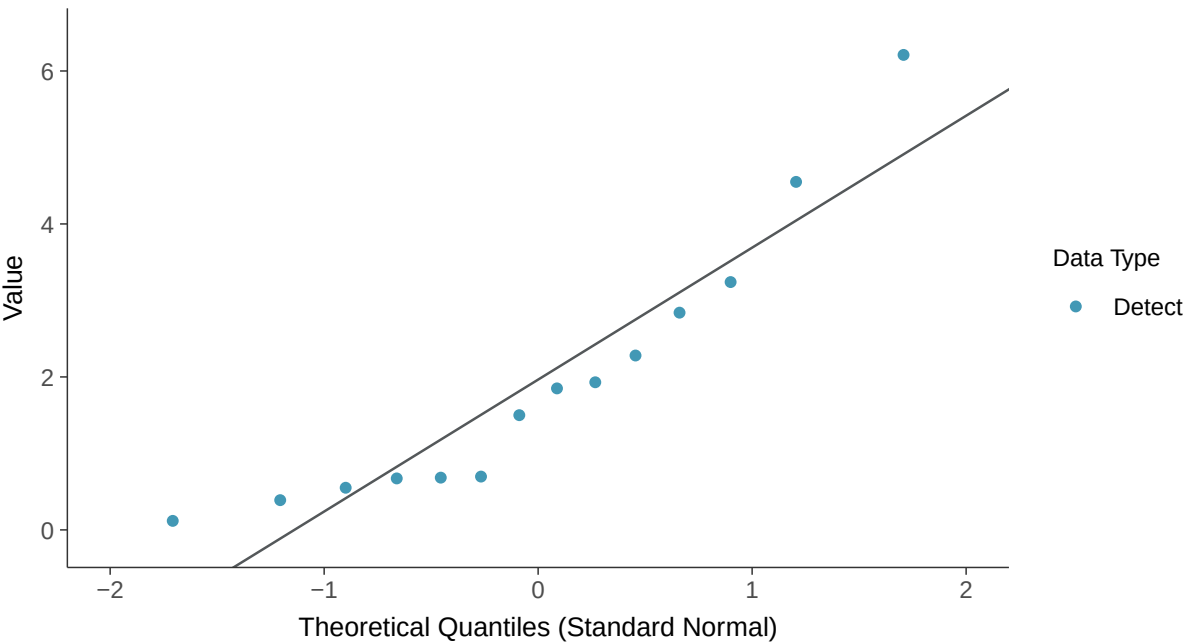
Boxplot by Season

Radium-226+228, MW-8 (pci/l)

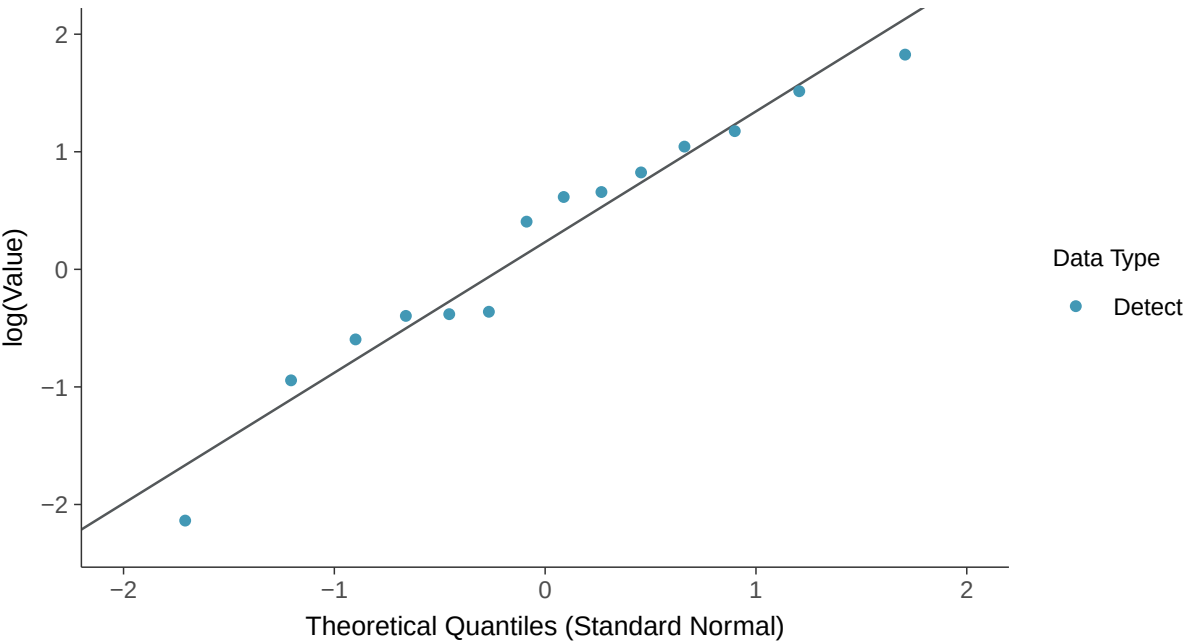




Normal Q-Q plot
Radium-226+228, MW-8 (pci/l)

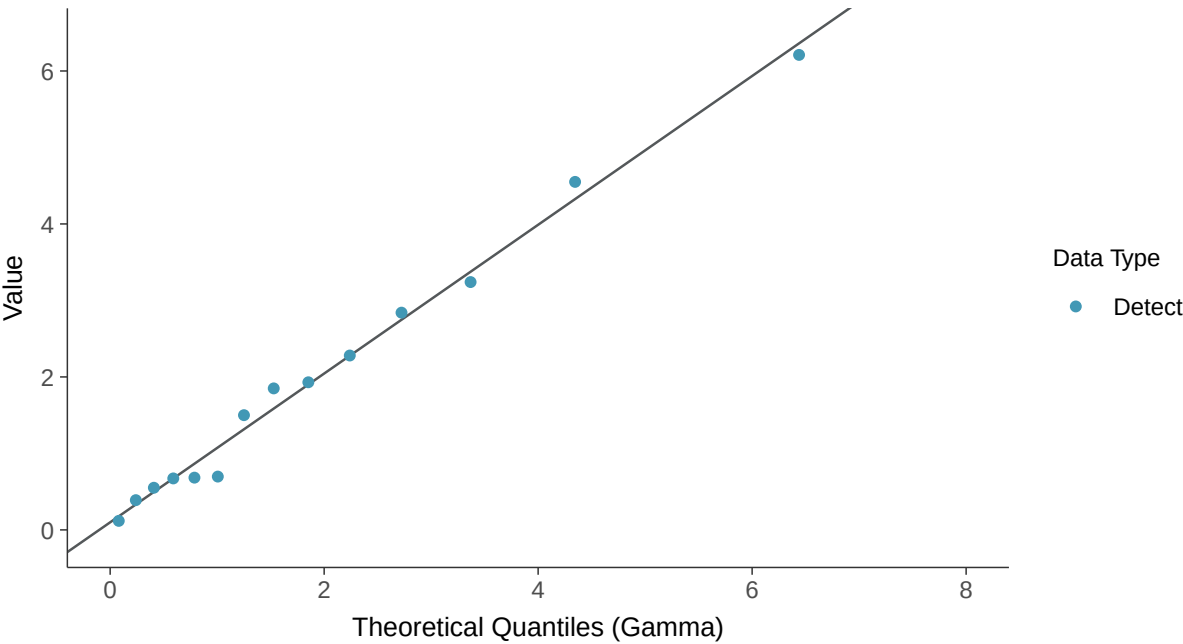


Lognormal Q-Q plot
Radium-226+228, MW-8 (pci/l)

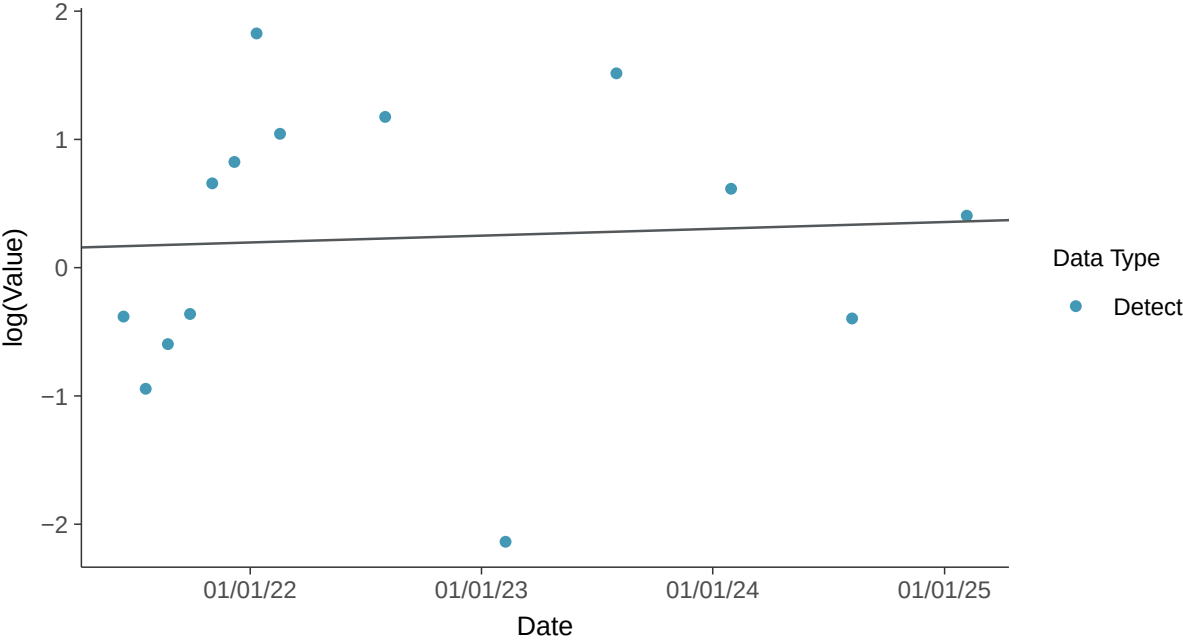




Gamma Q-Q plot
Radium-226+228, MW-8 (pci/l)



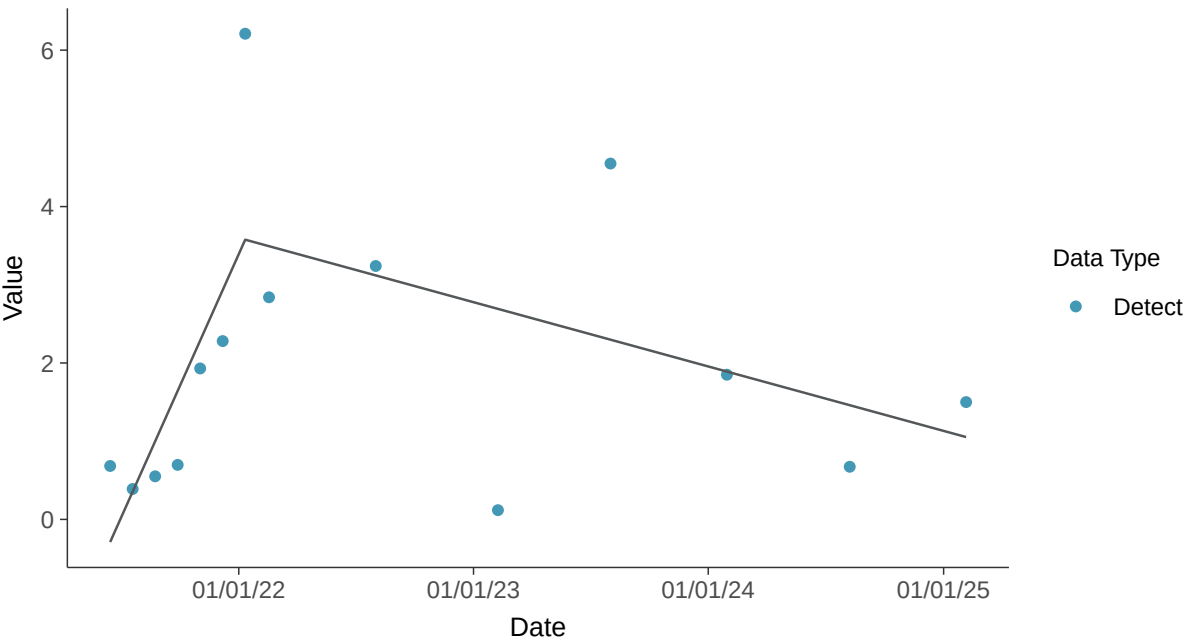
Trend Regression: Lognormal MLE
Radium-226+228, MW-8 (pci/l)





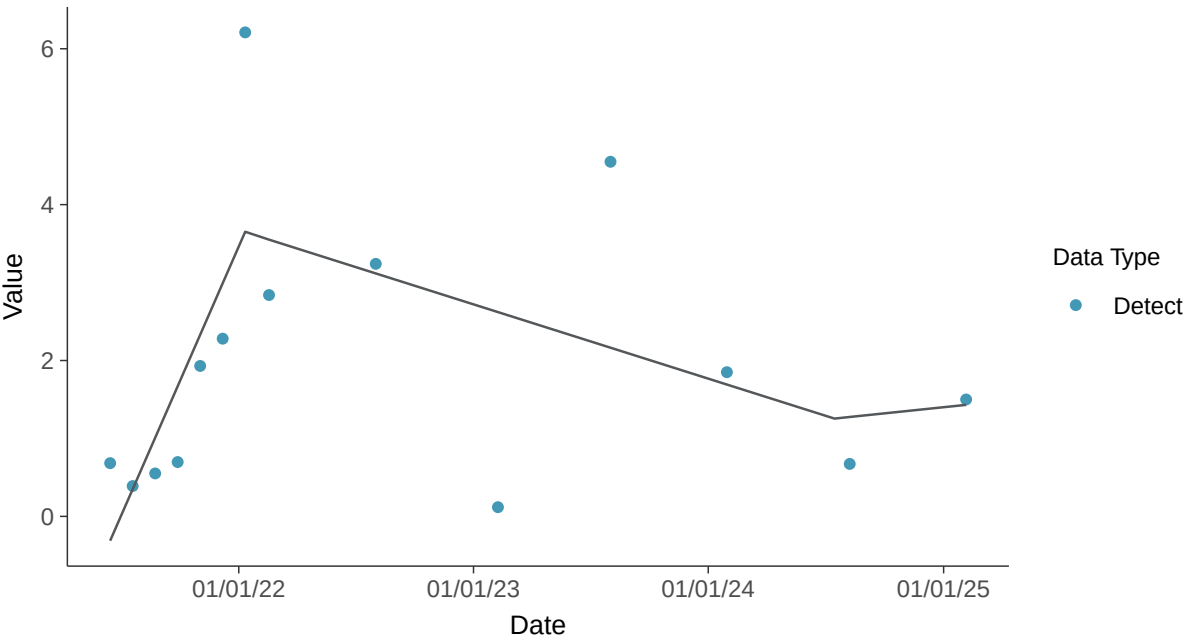
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-8 (pci/l)



Trend Regression: Piecewise Linear-Linear-Linear

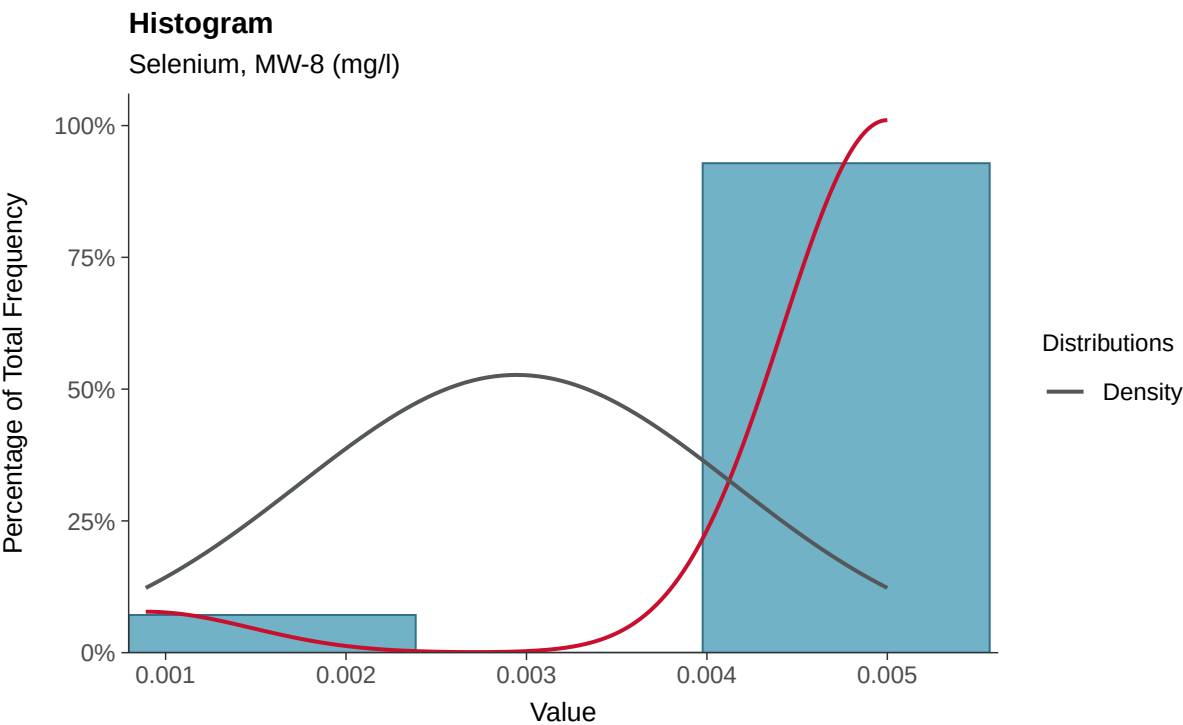
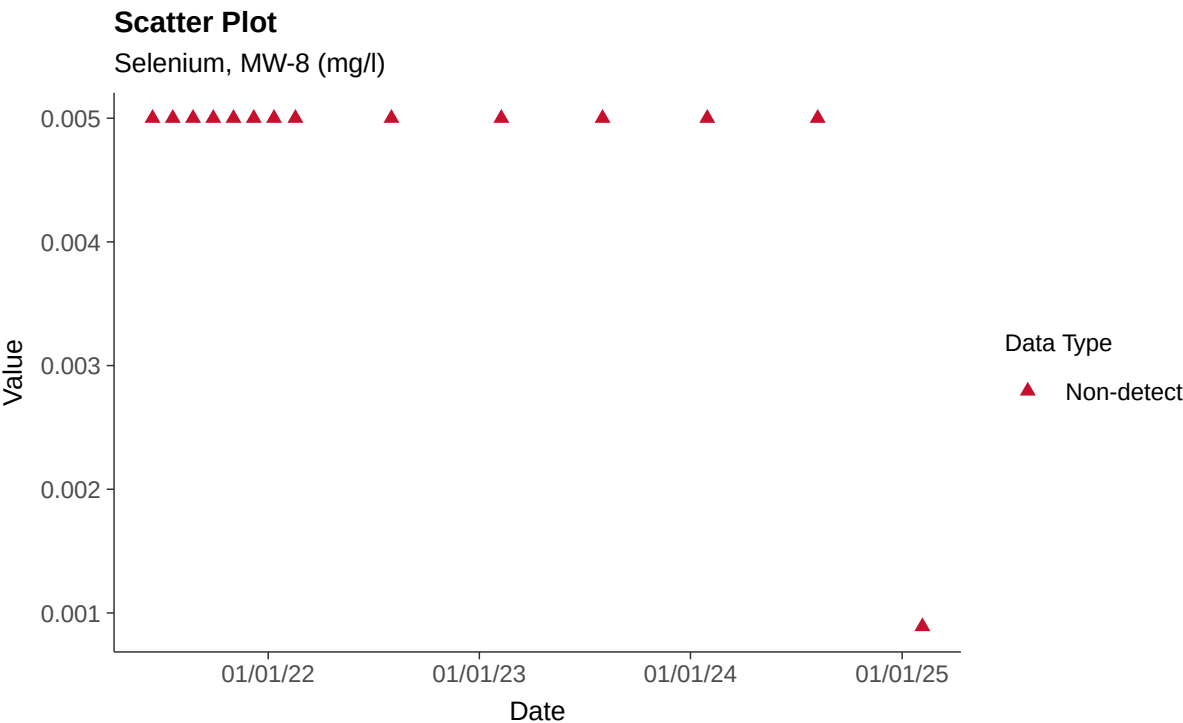
Radium-226+228, MW-8 (pci/l)

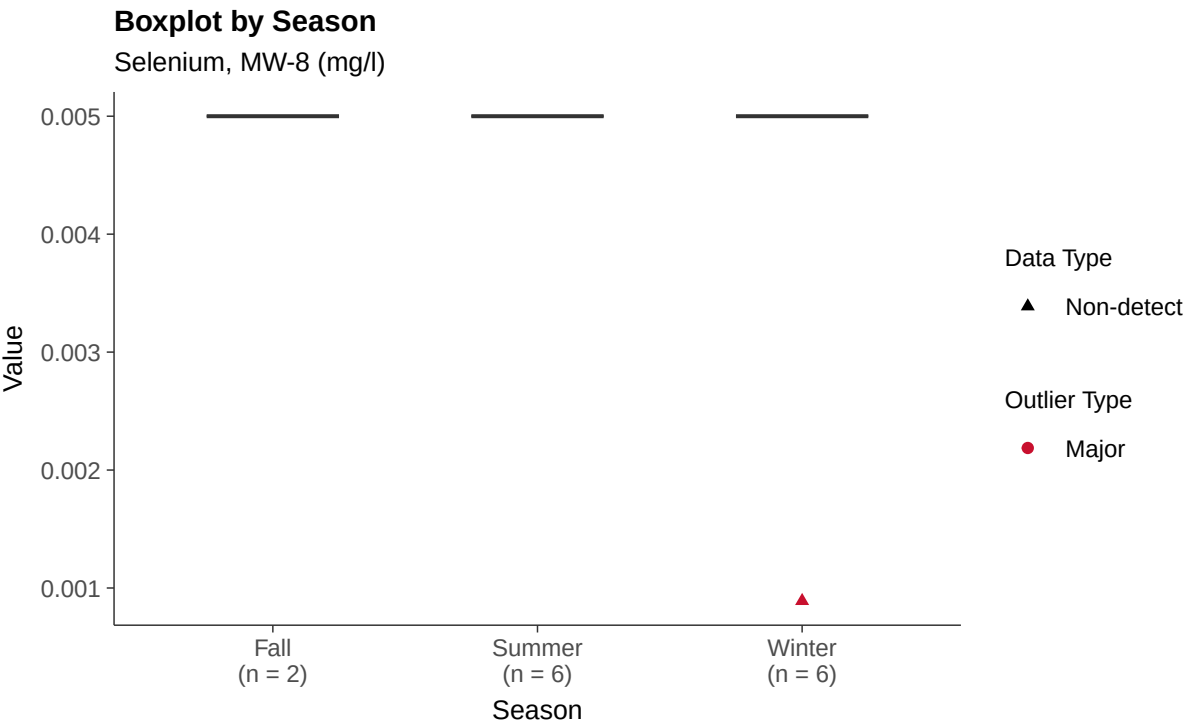
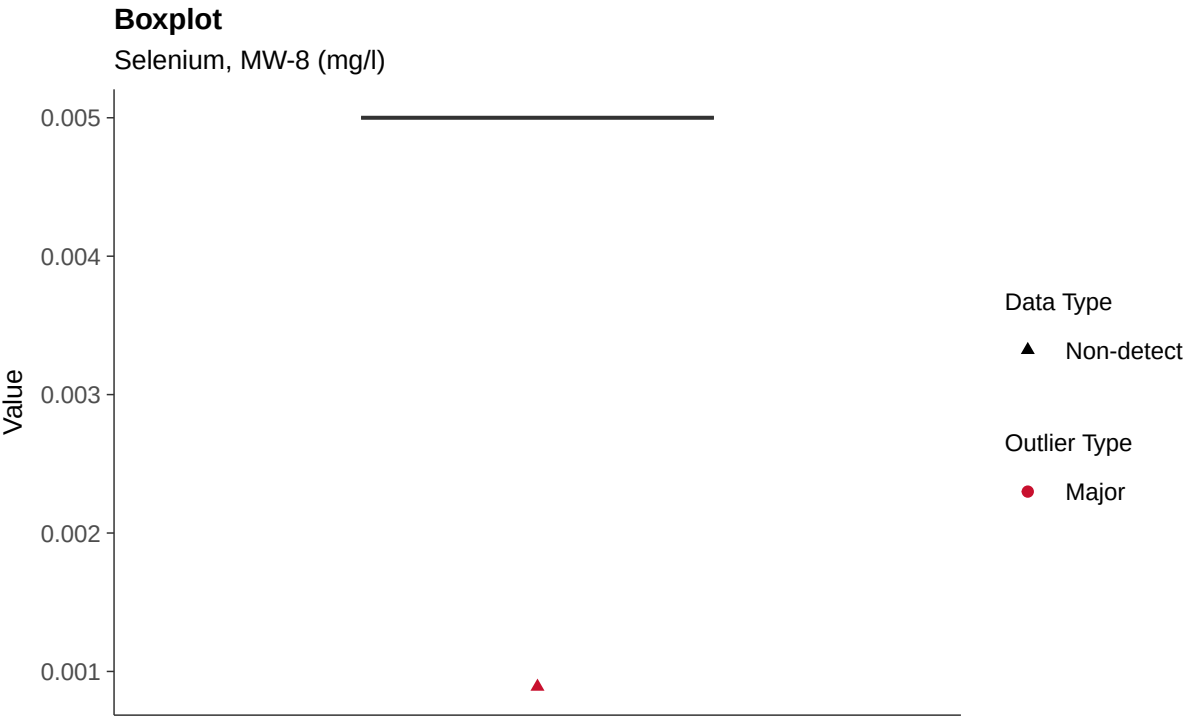




Appendix IV: Selenium, MW-8

ID: 17_3_122

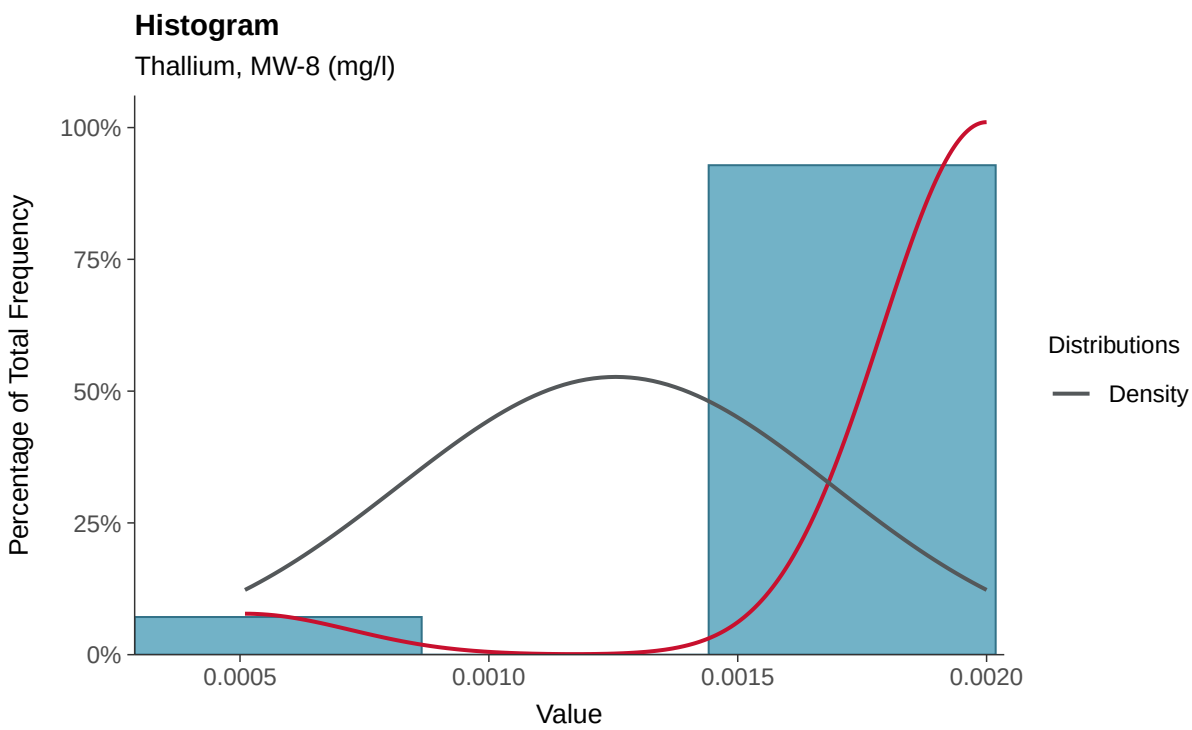
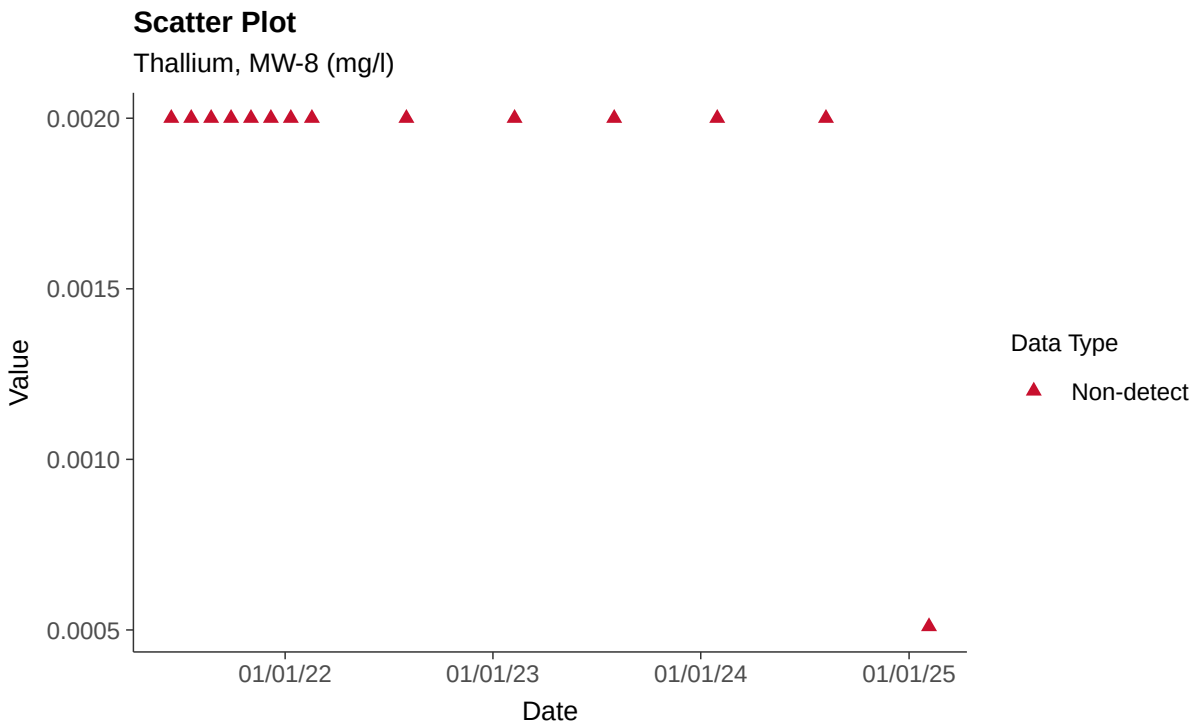


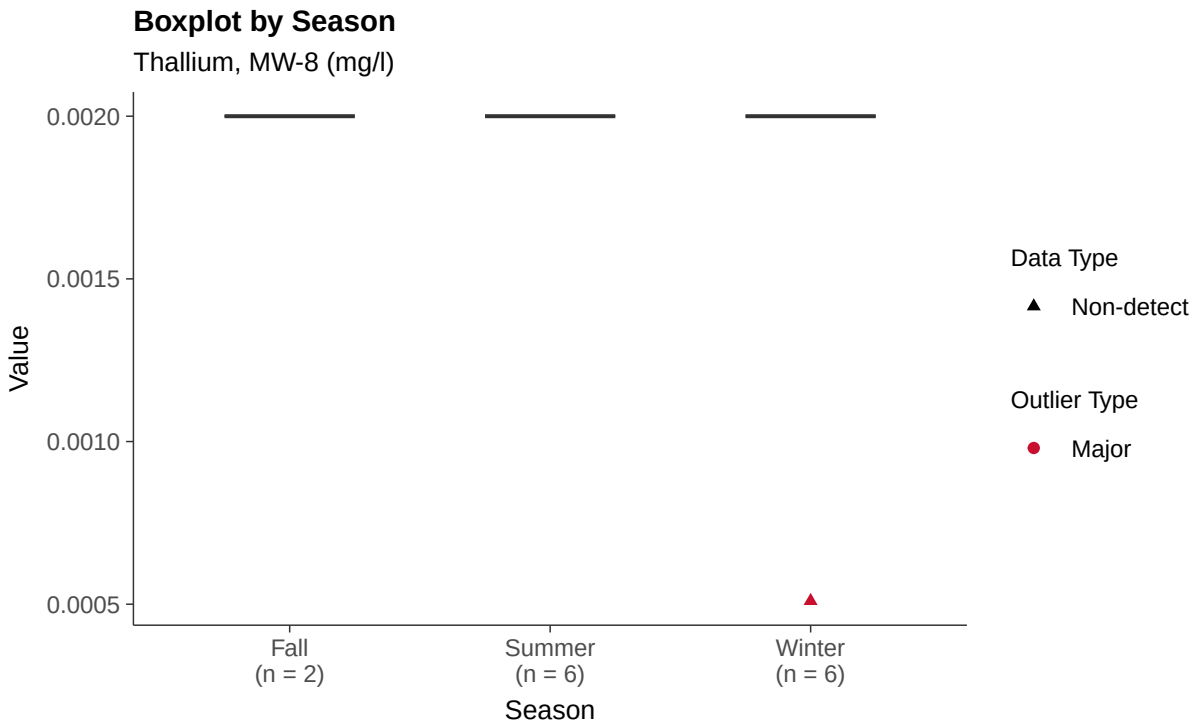
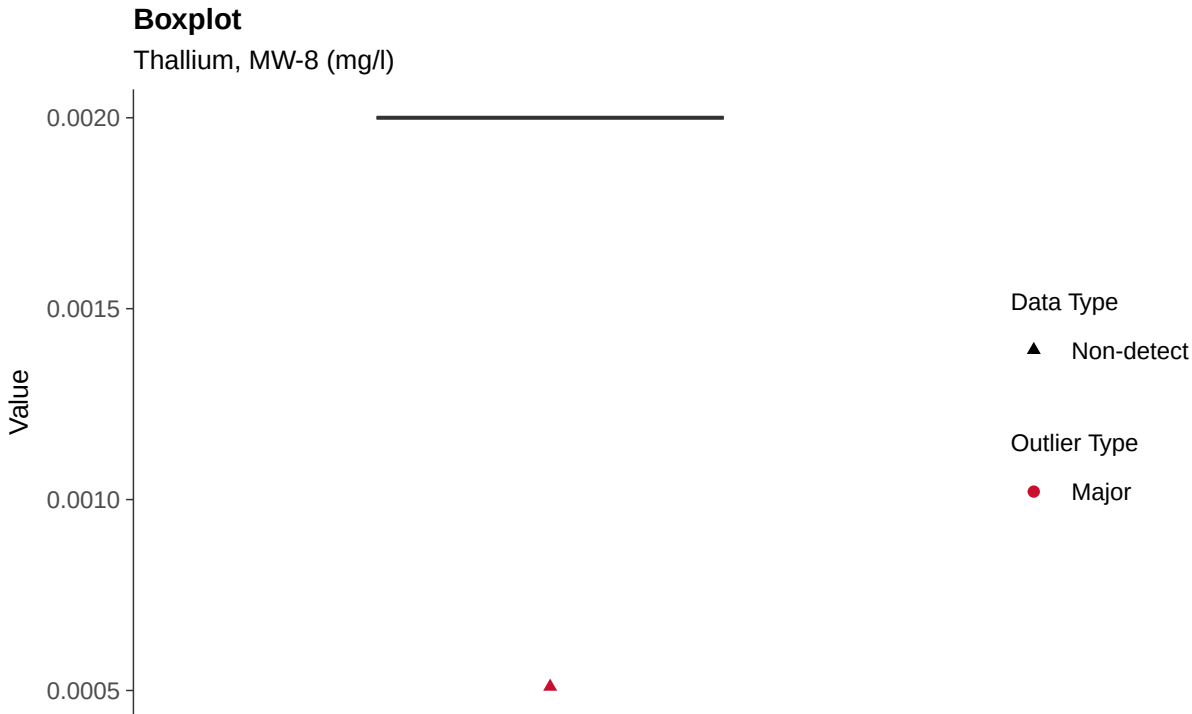




Appendix IV: Thallium, MW-8

ID: 17_3_125

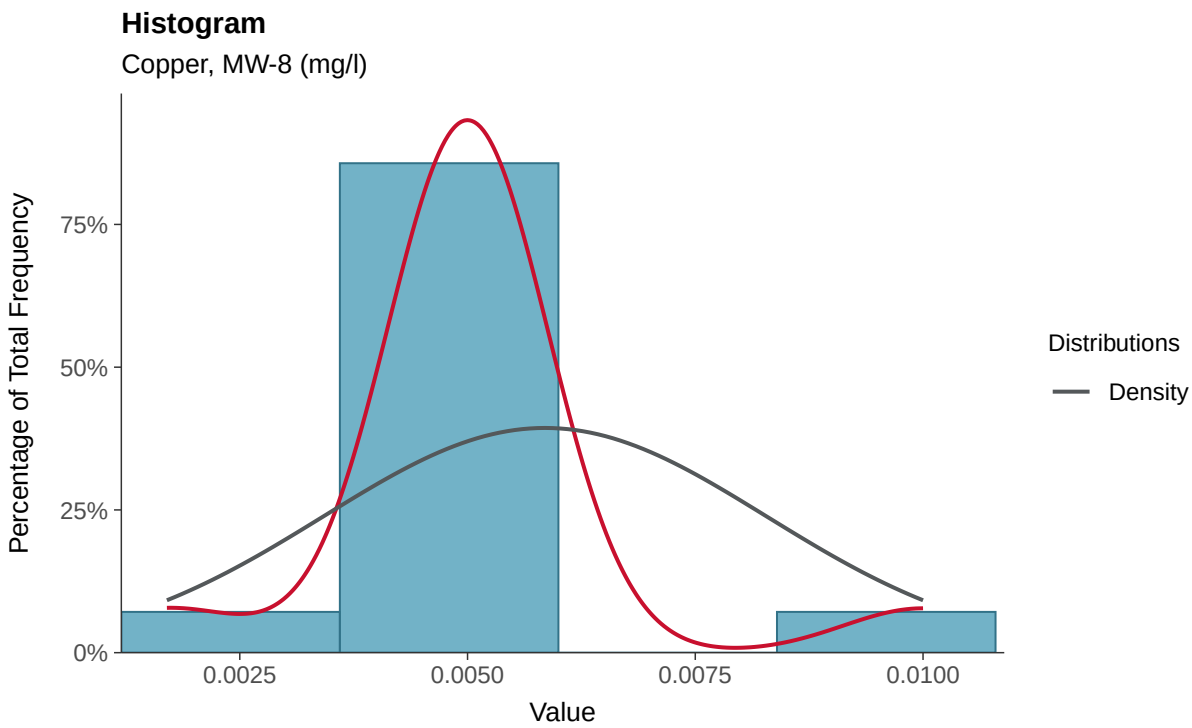
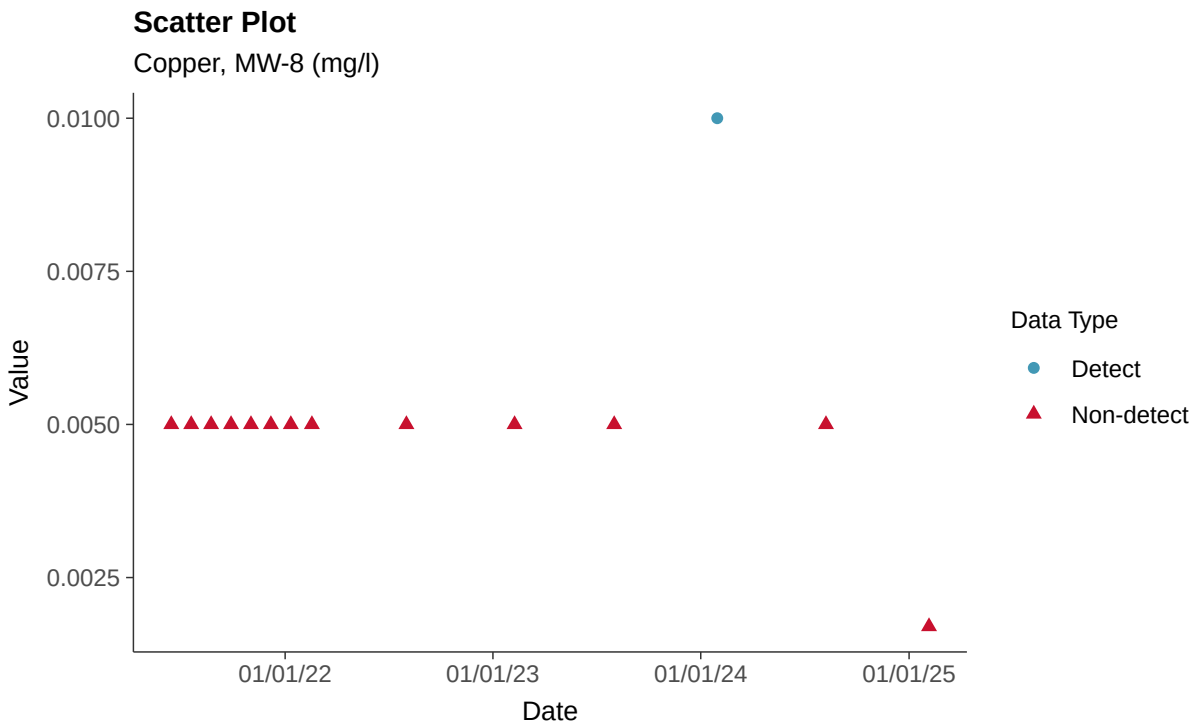


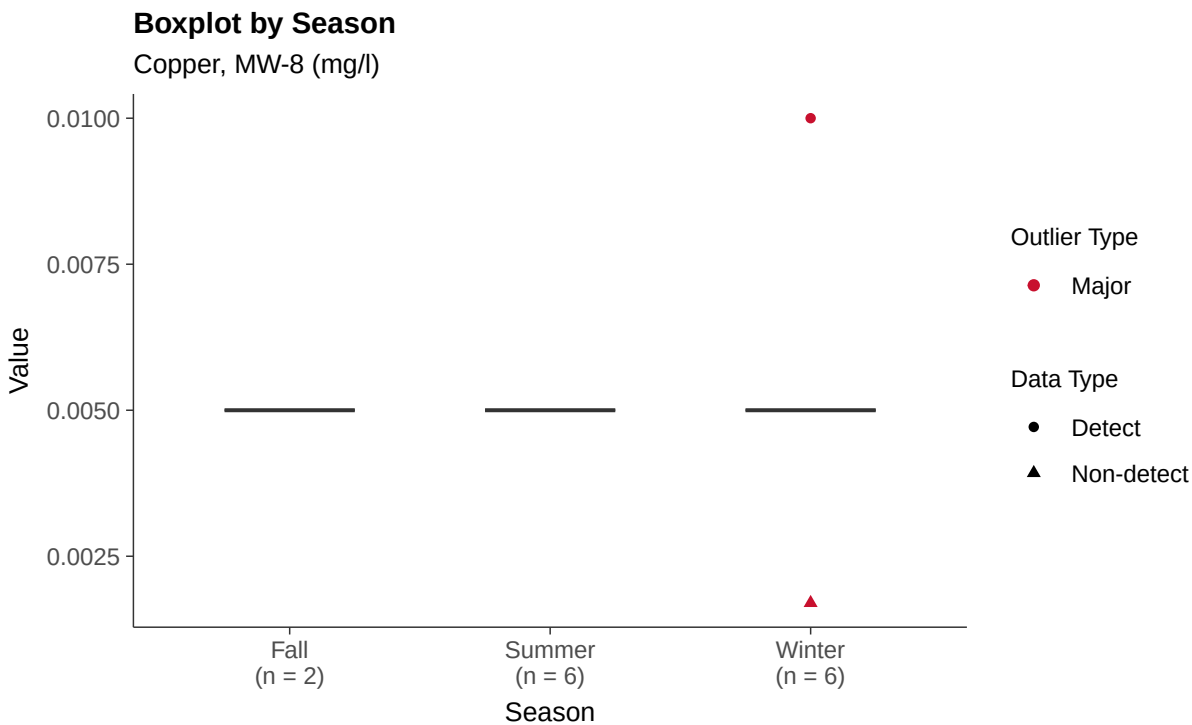
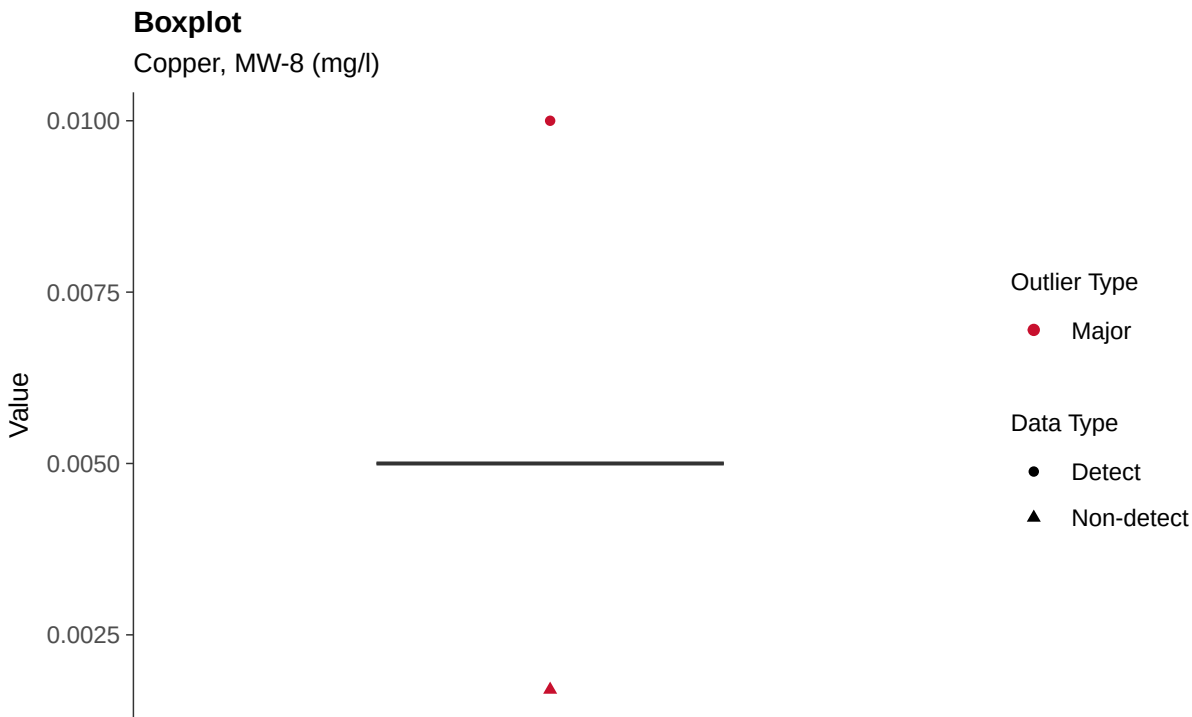


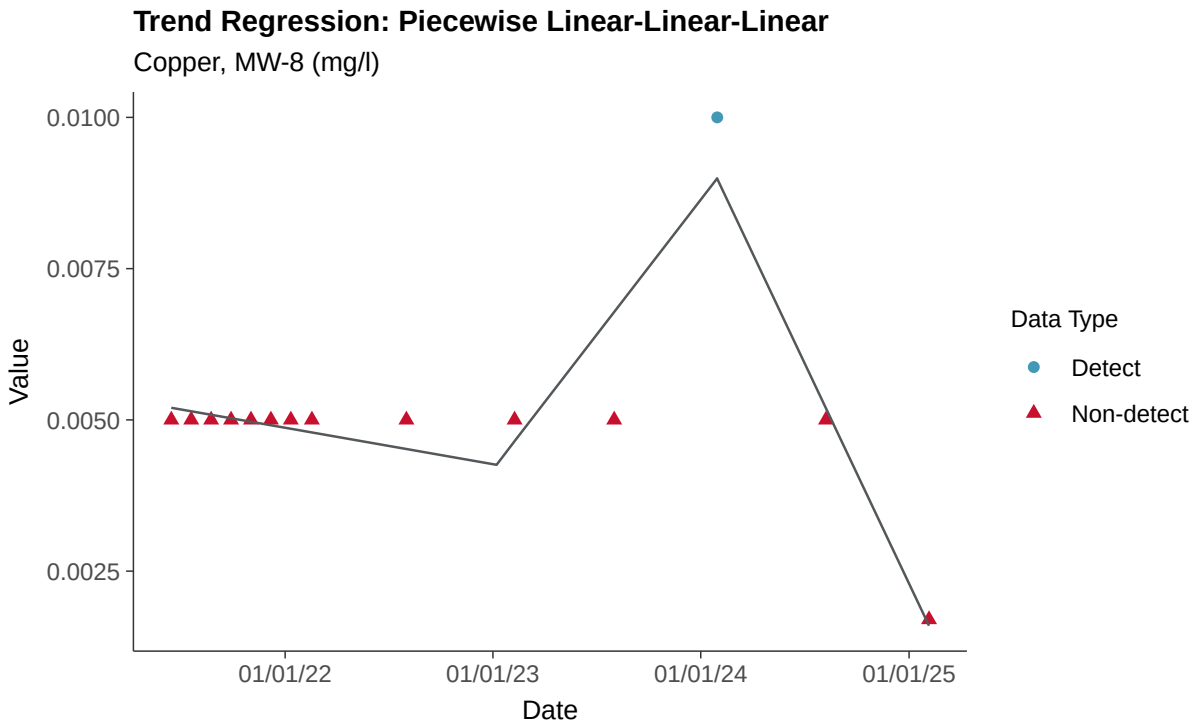
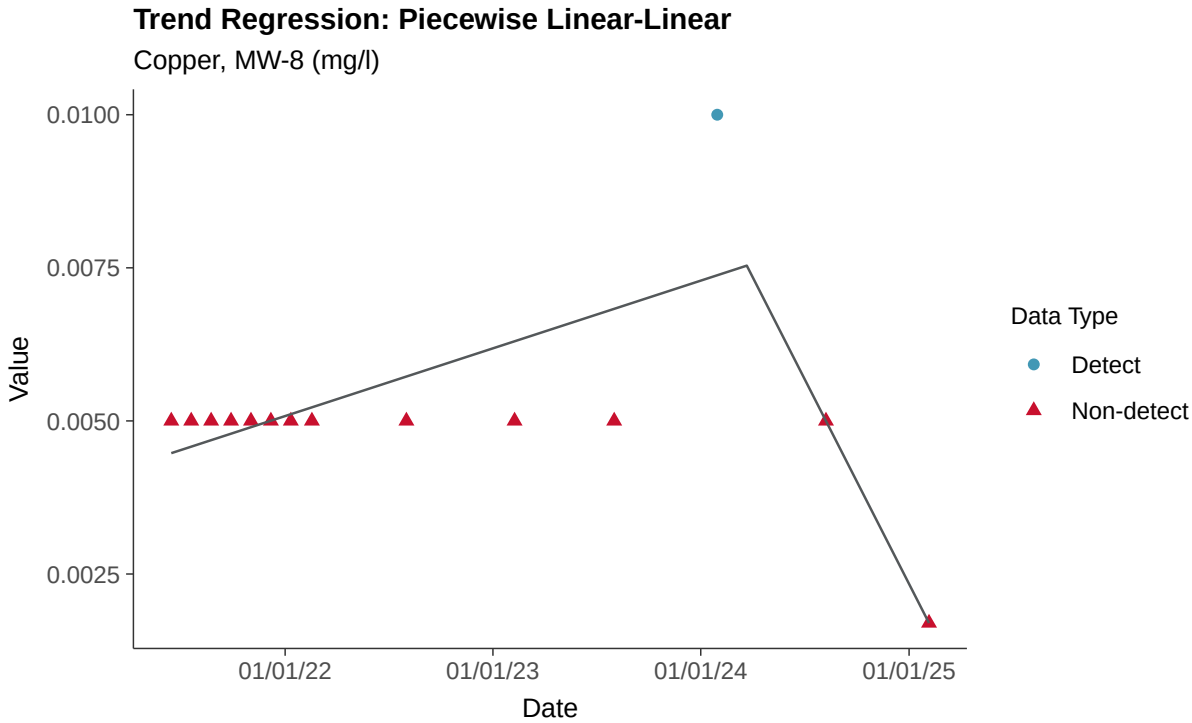


Part 115: Copper, MW-8

ID: 17_5_111



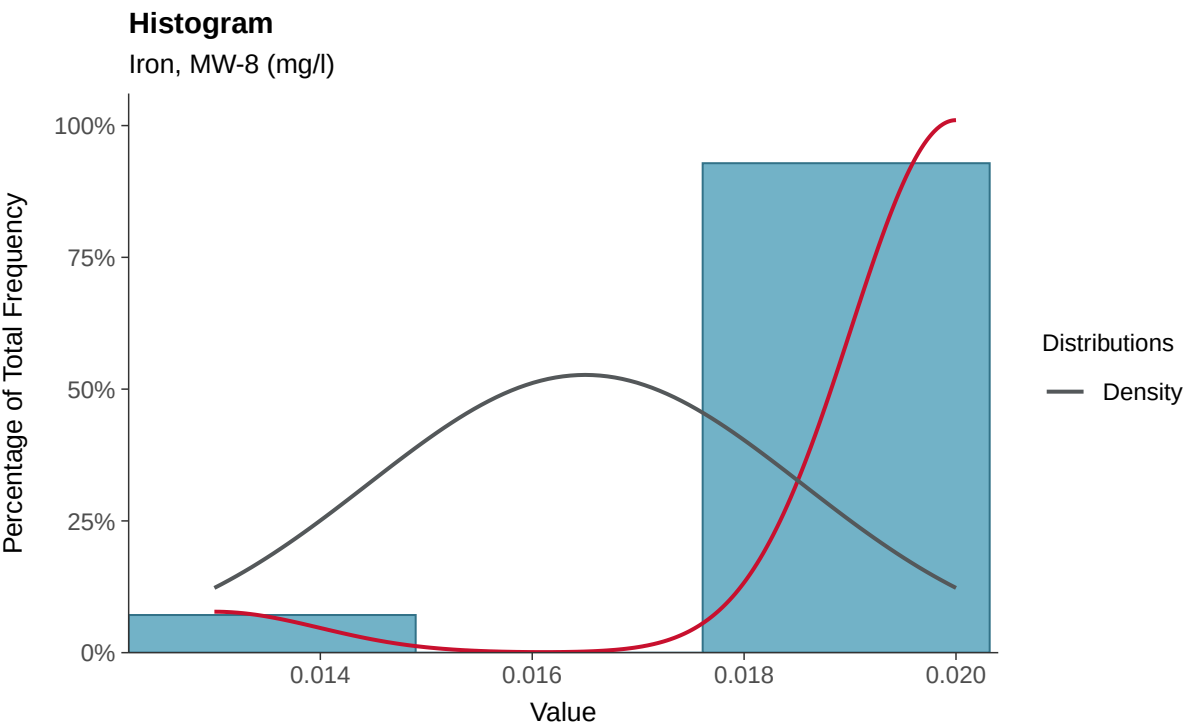
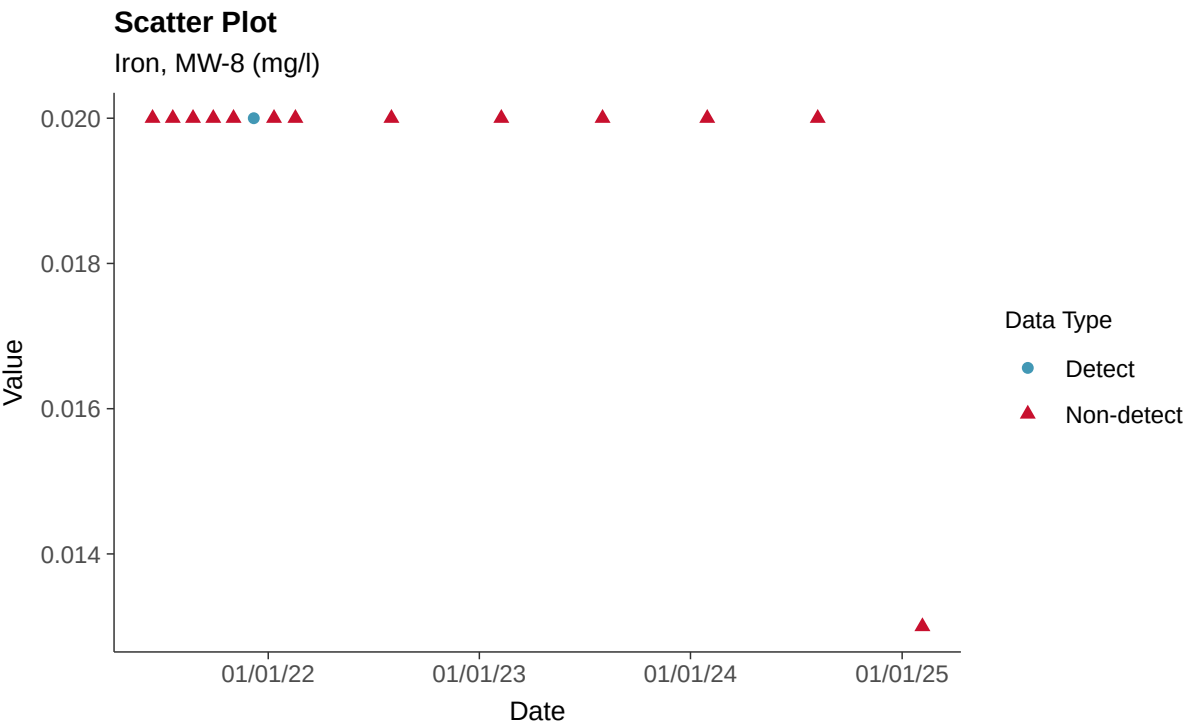


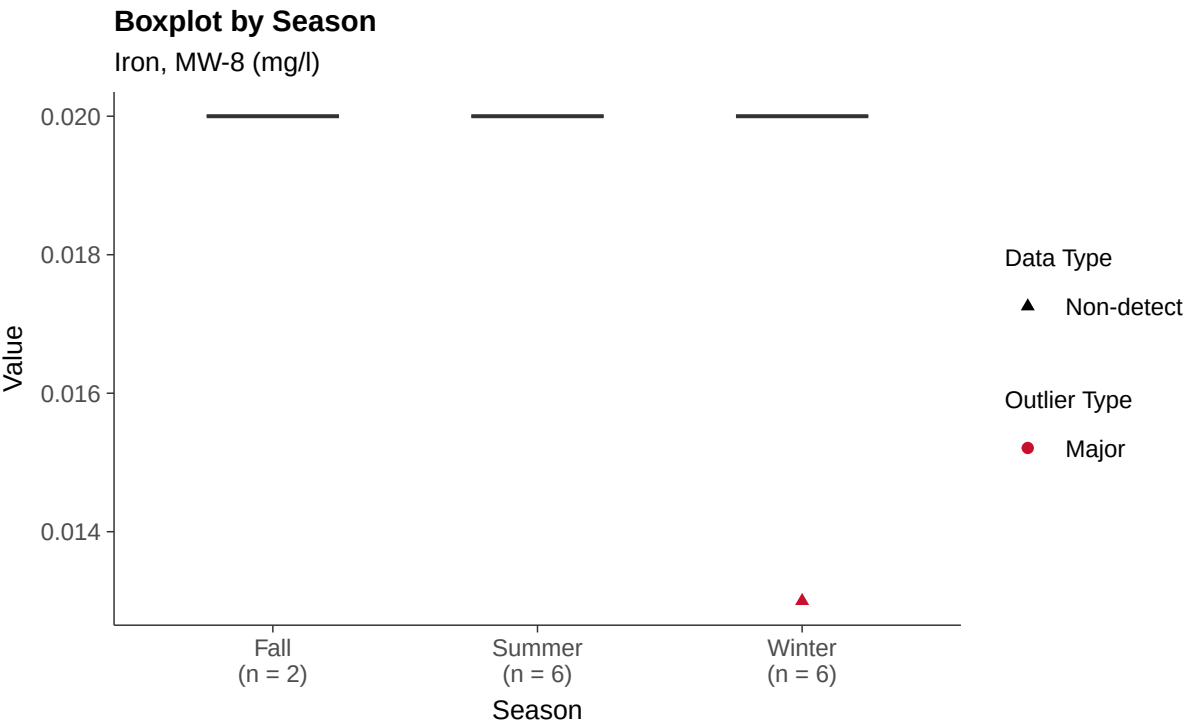
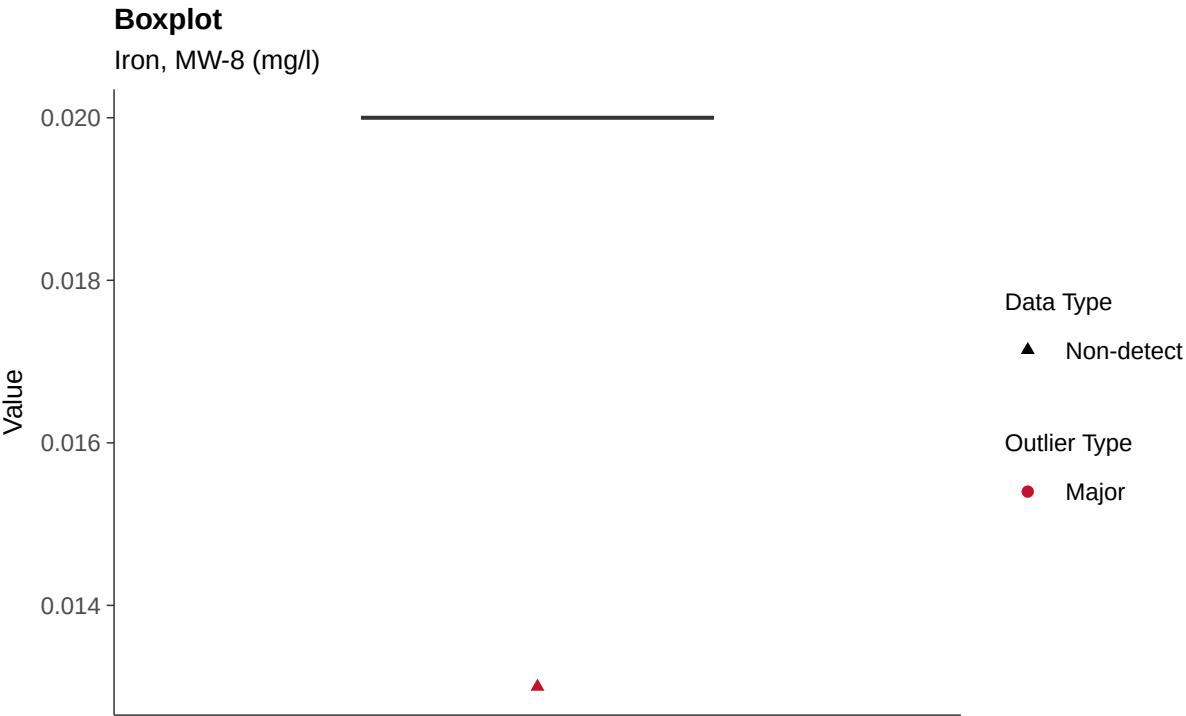




Part 115: Iron, MW-8

ID: 17_5_114

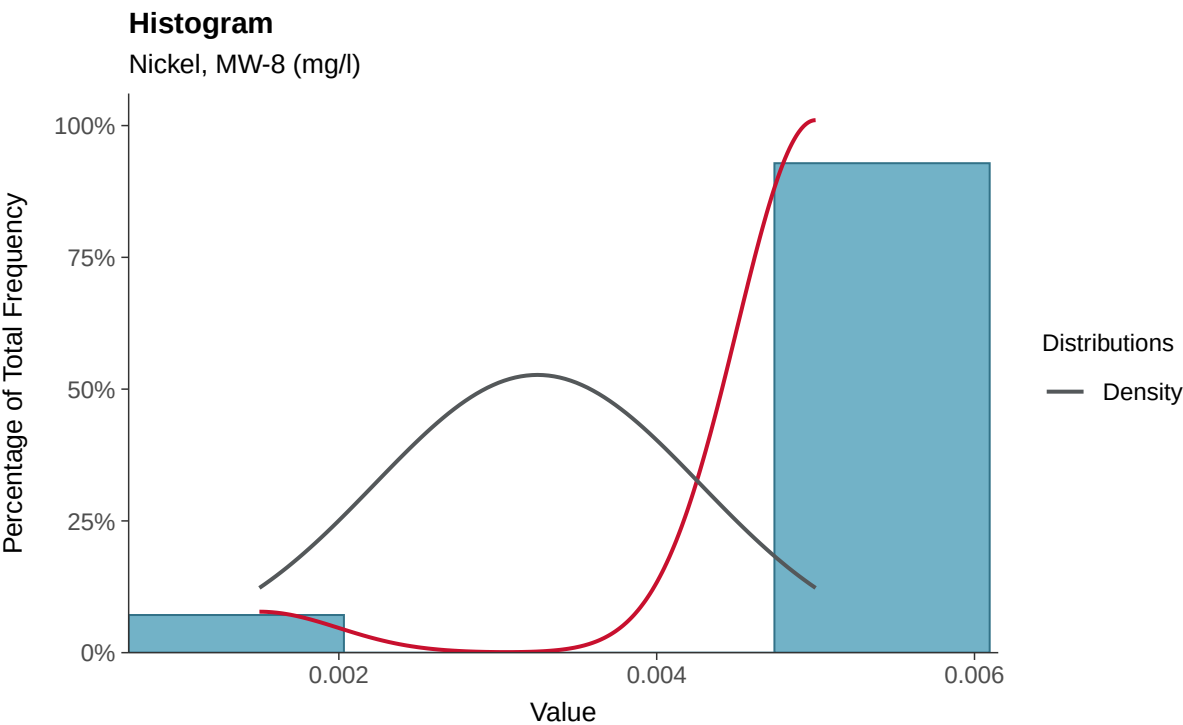
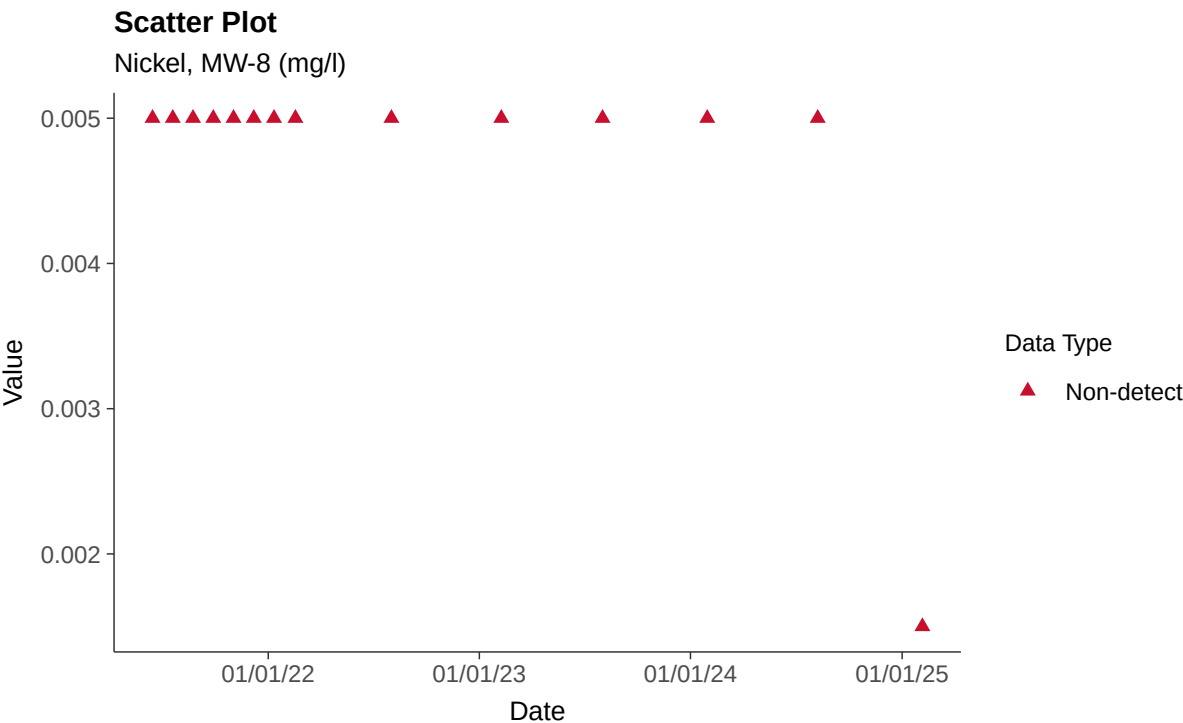


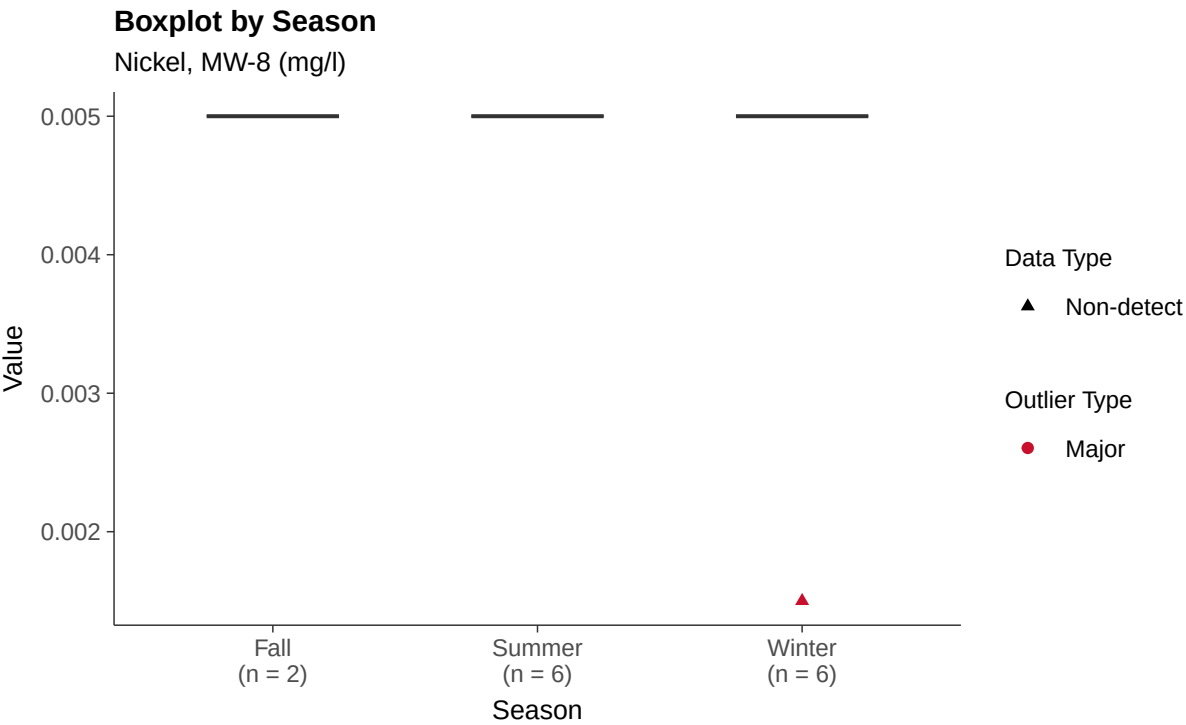
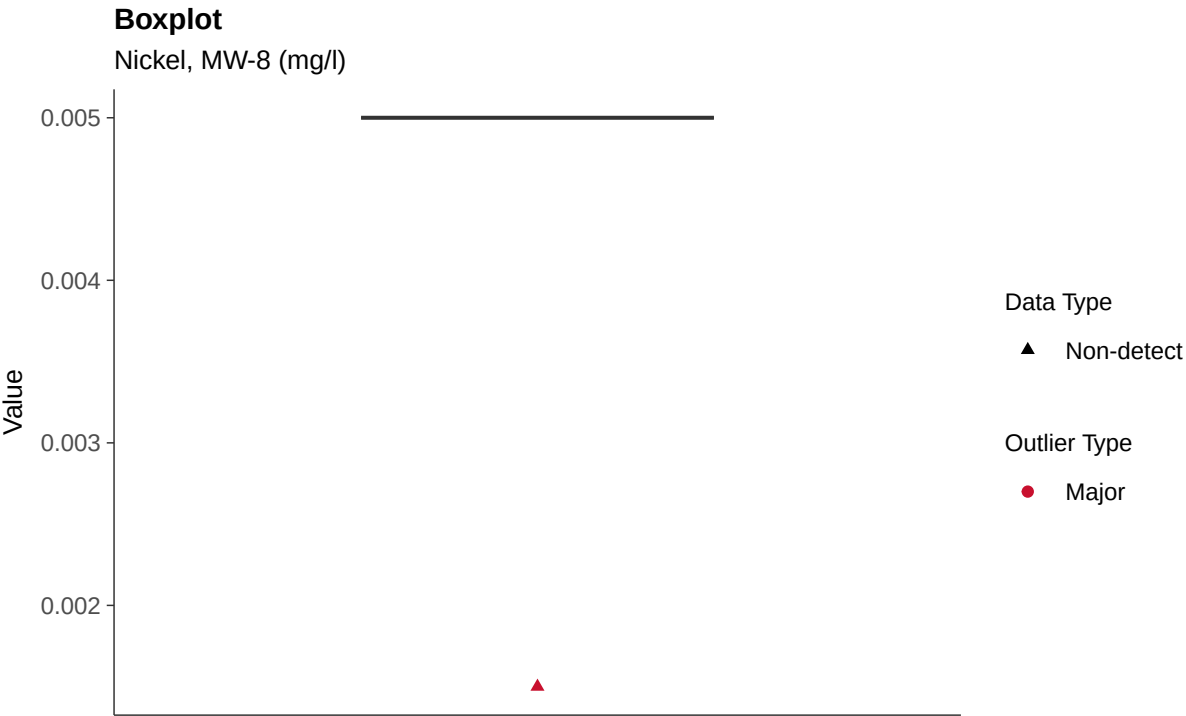


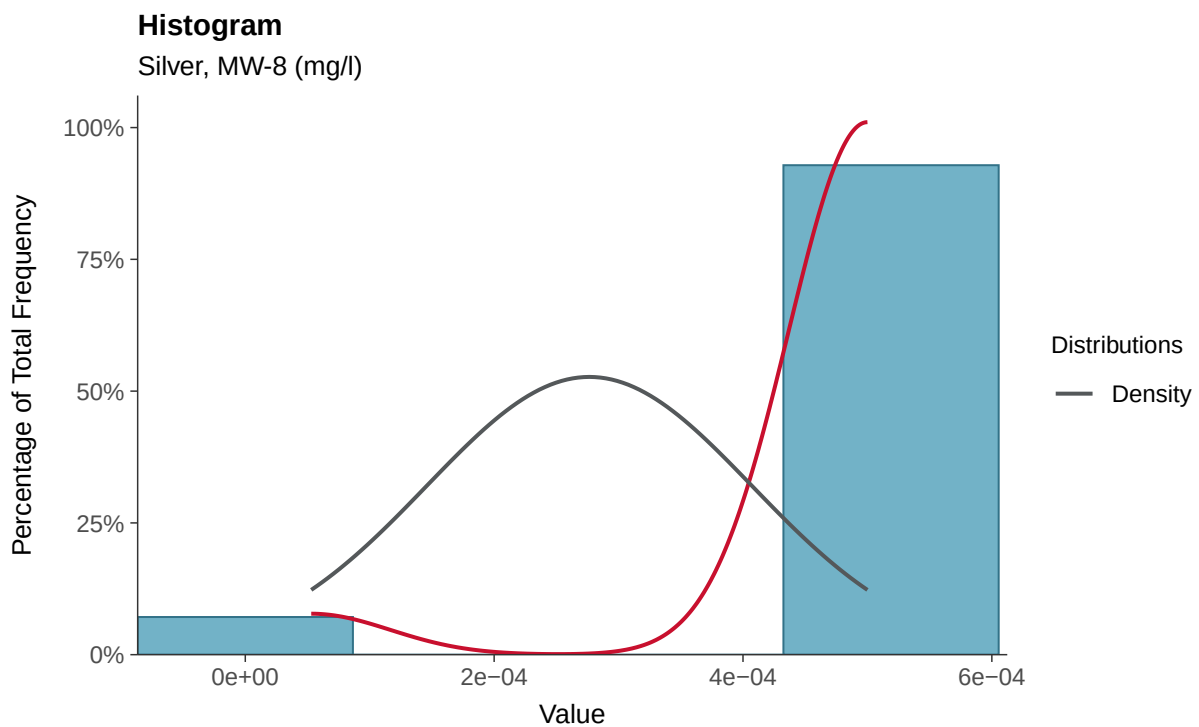


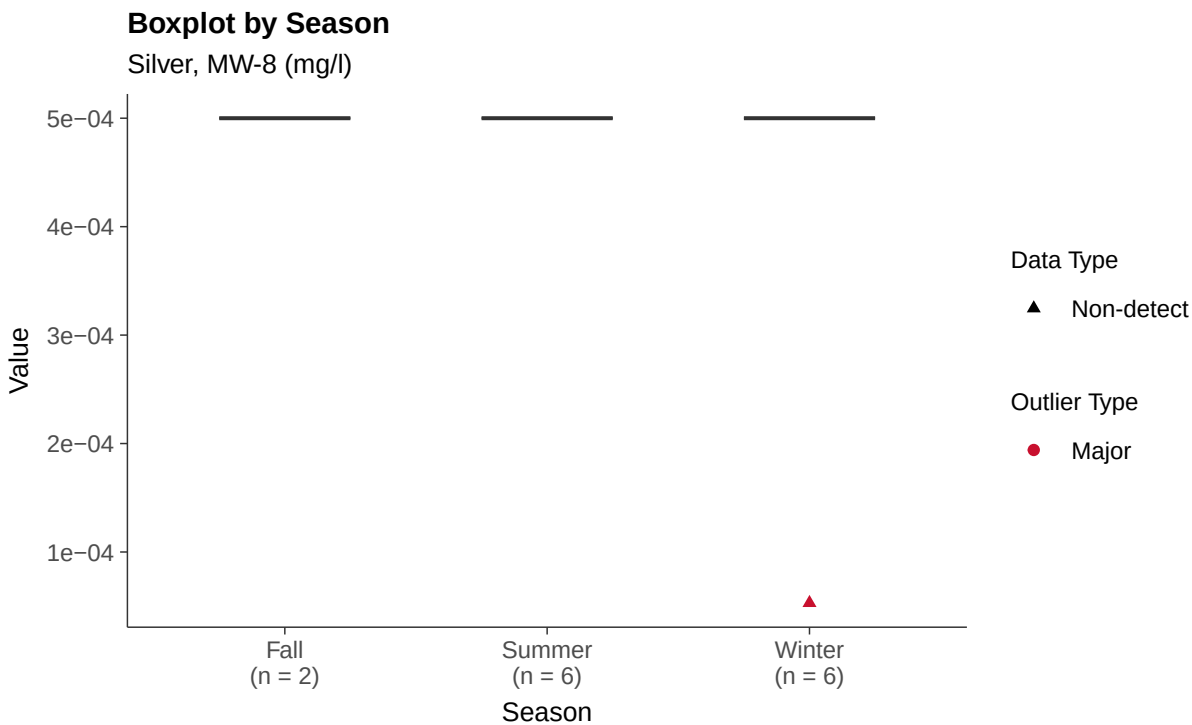
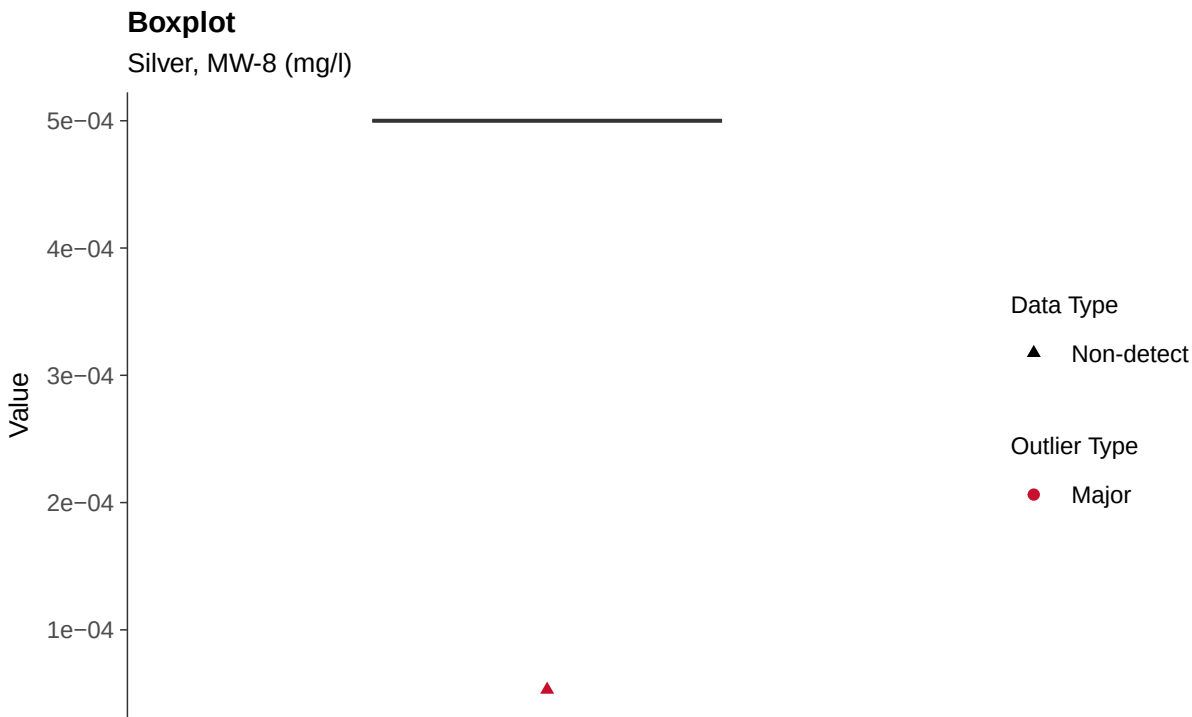
Part 115: Nickel, MW-8

ID: 17_5_119





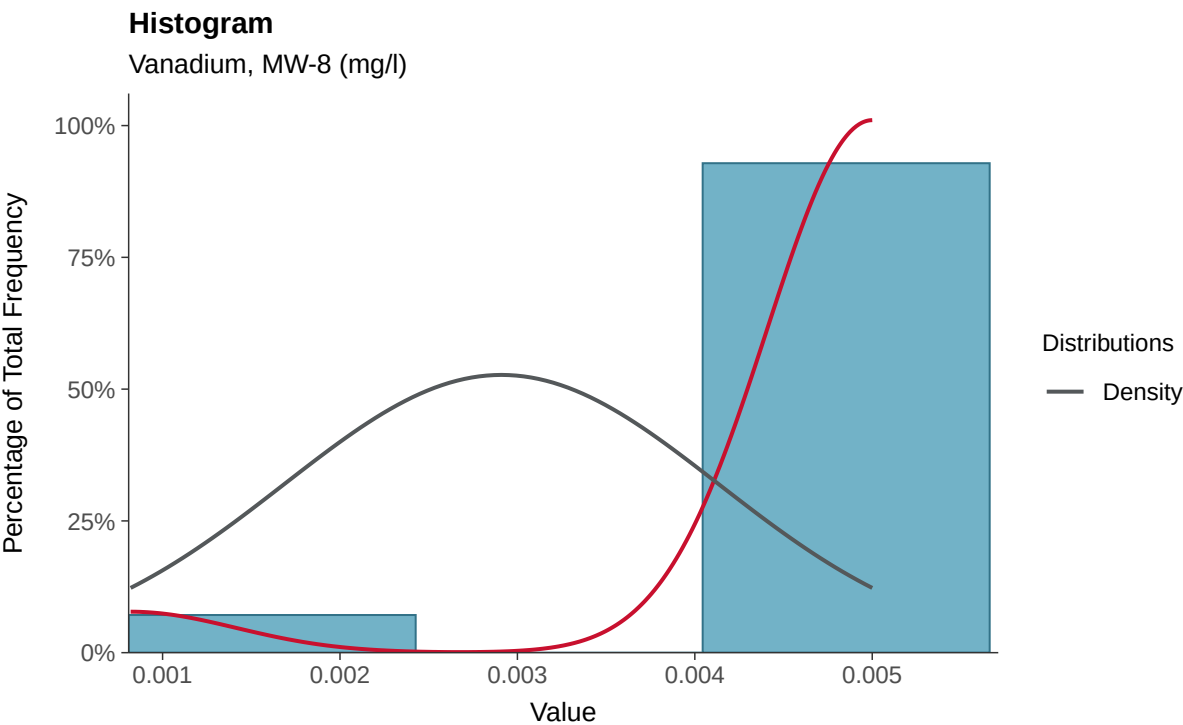
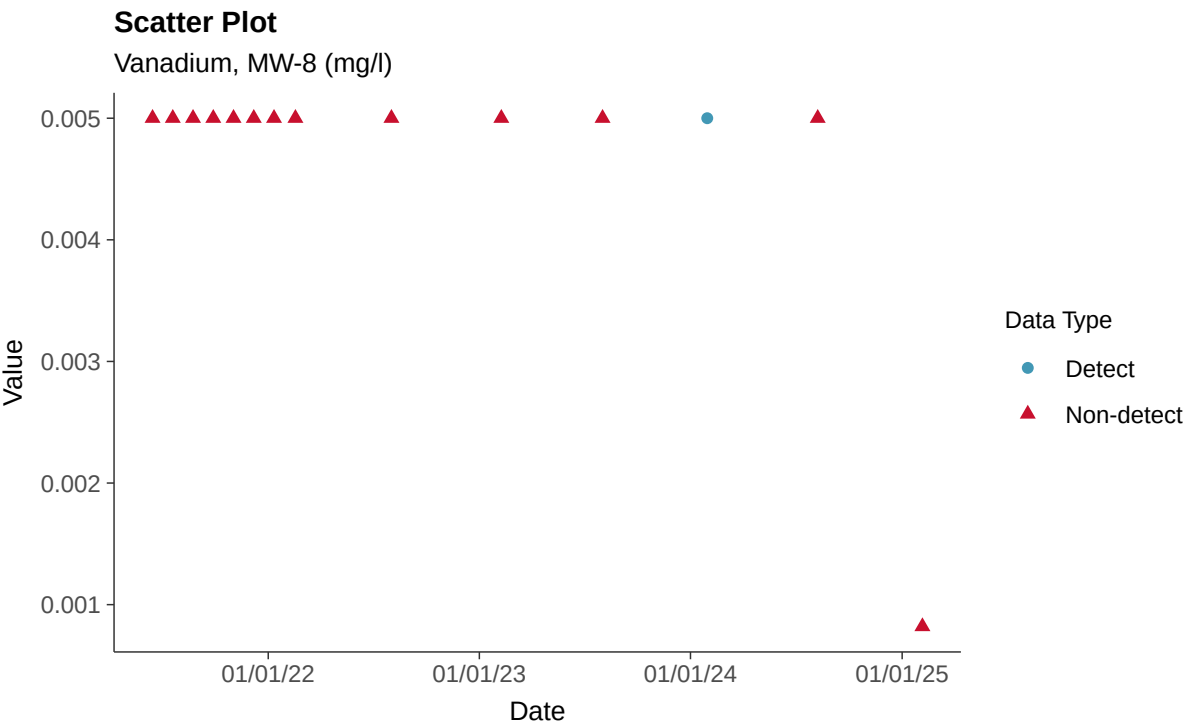


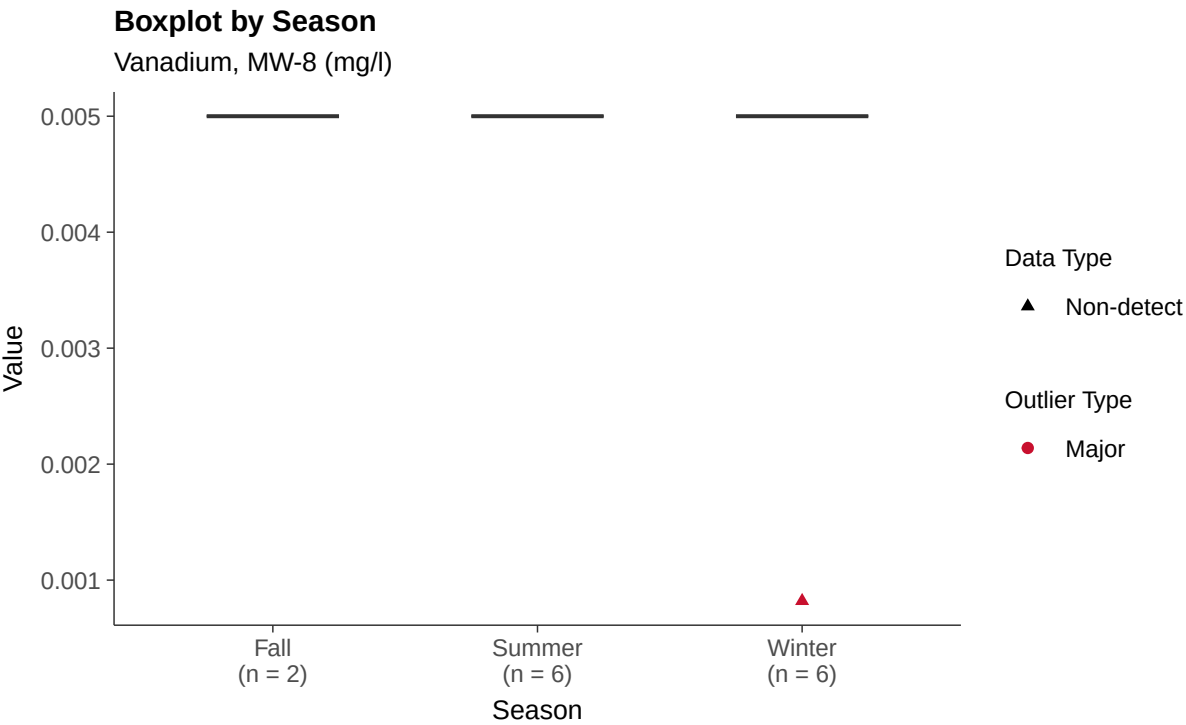
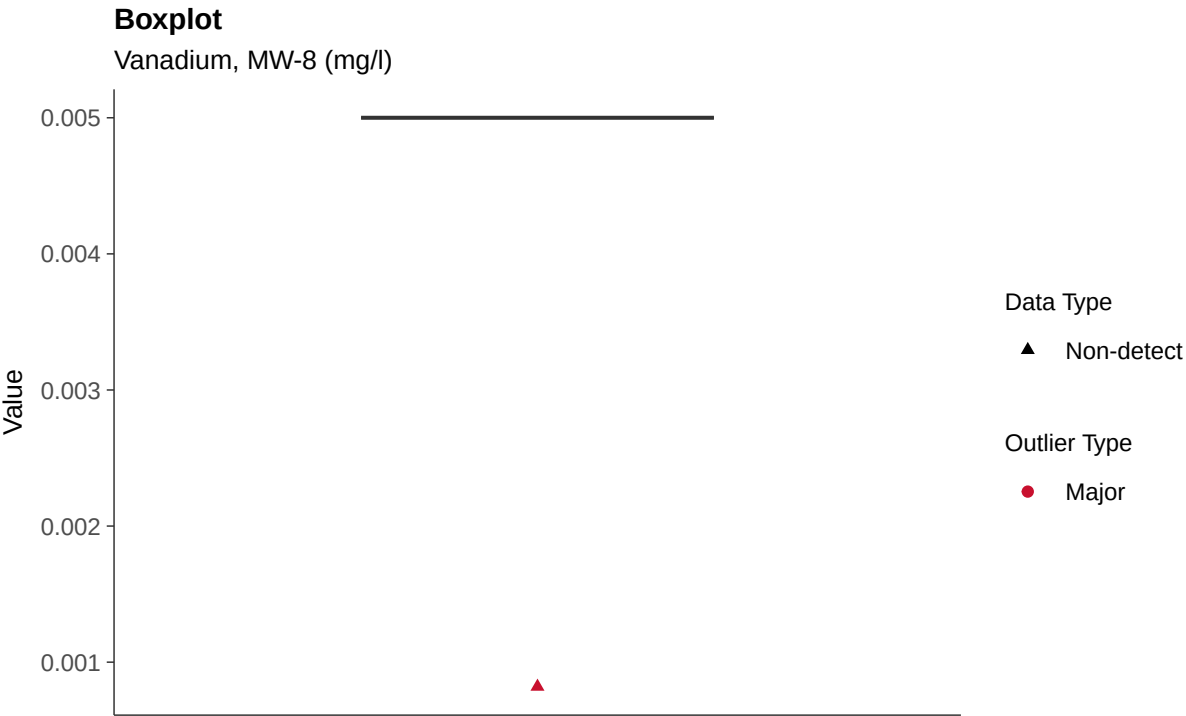




Part 115: Vanadium, MW-8

ID: 17_5_128

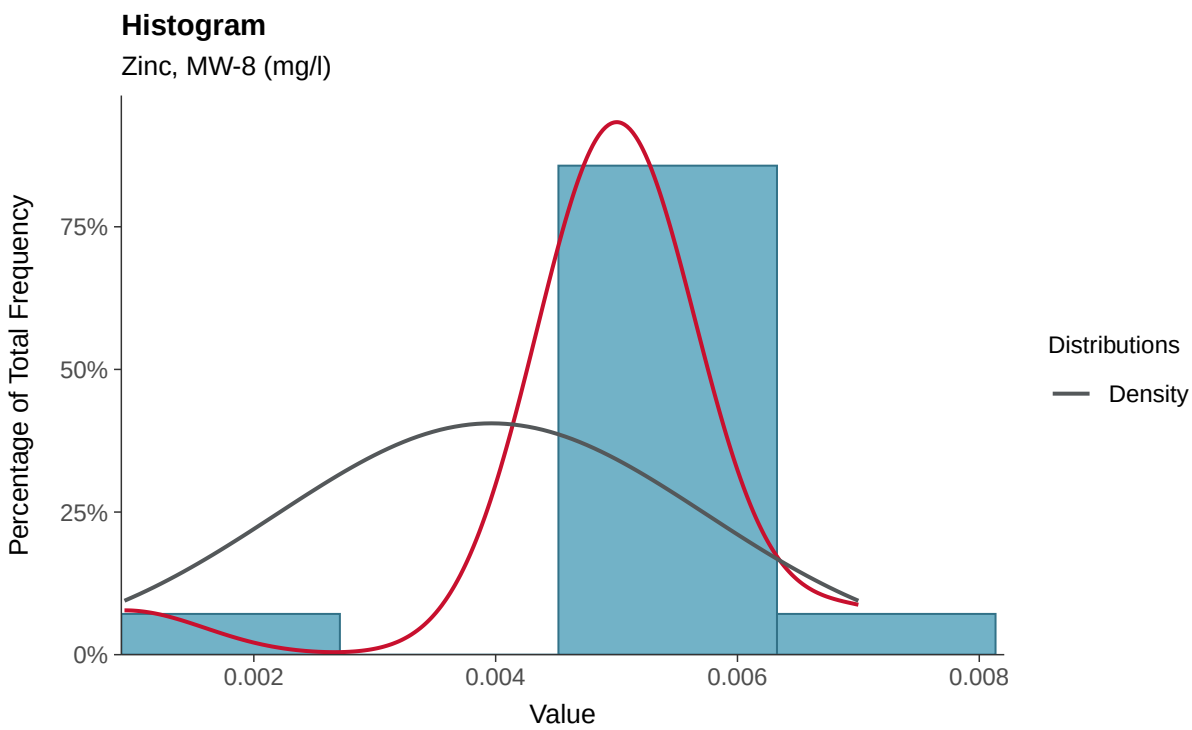
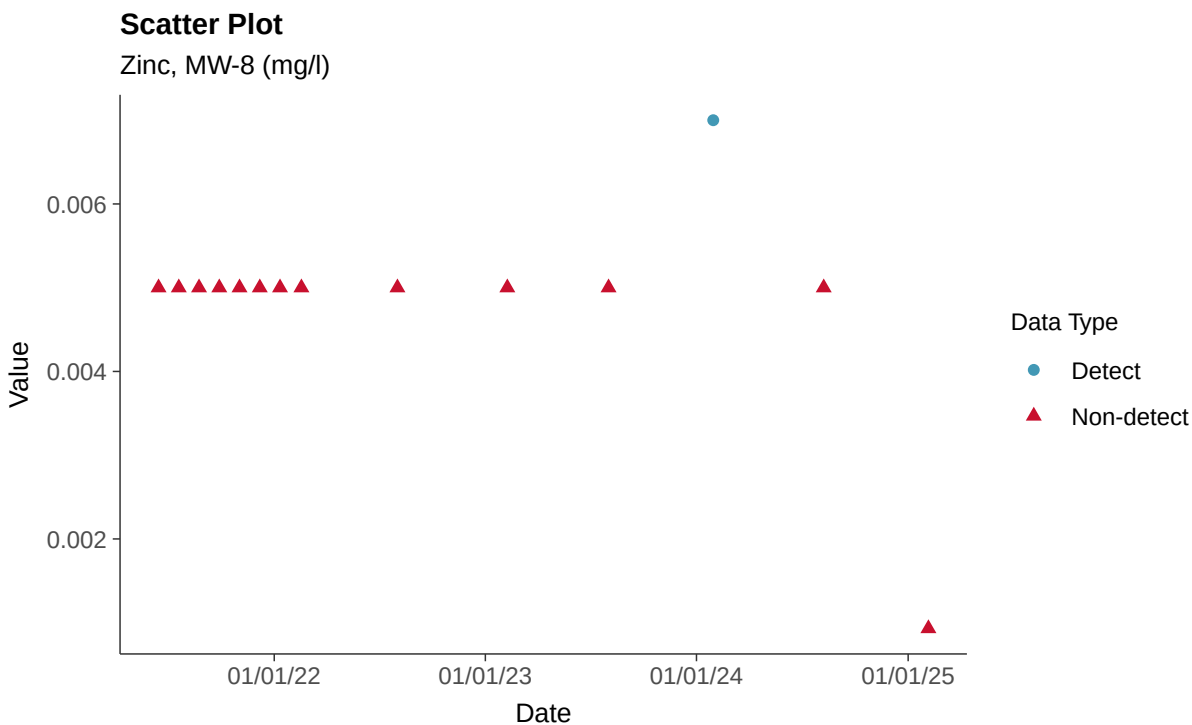


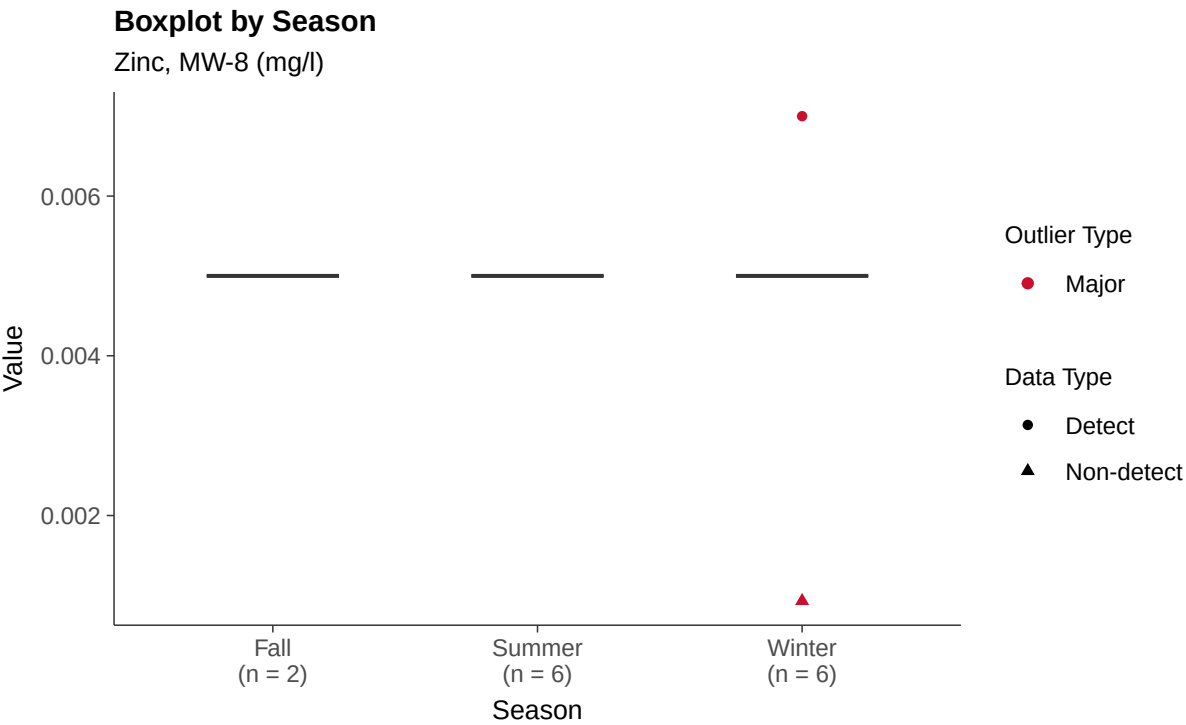
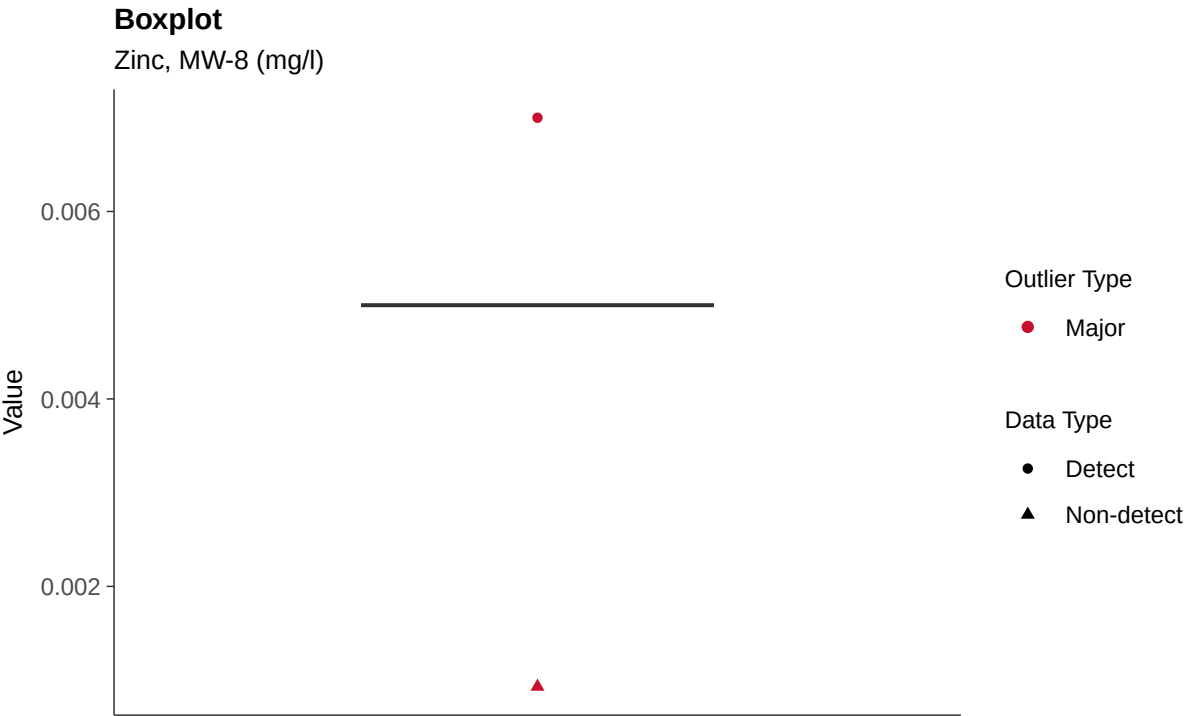


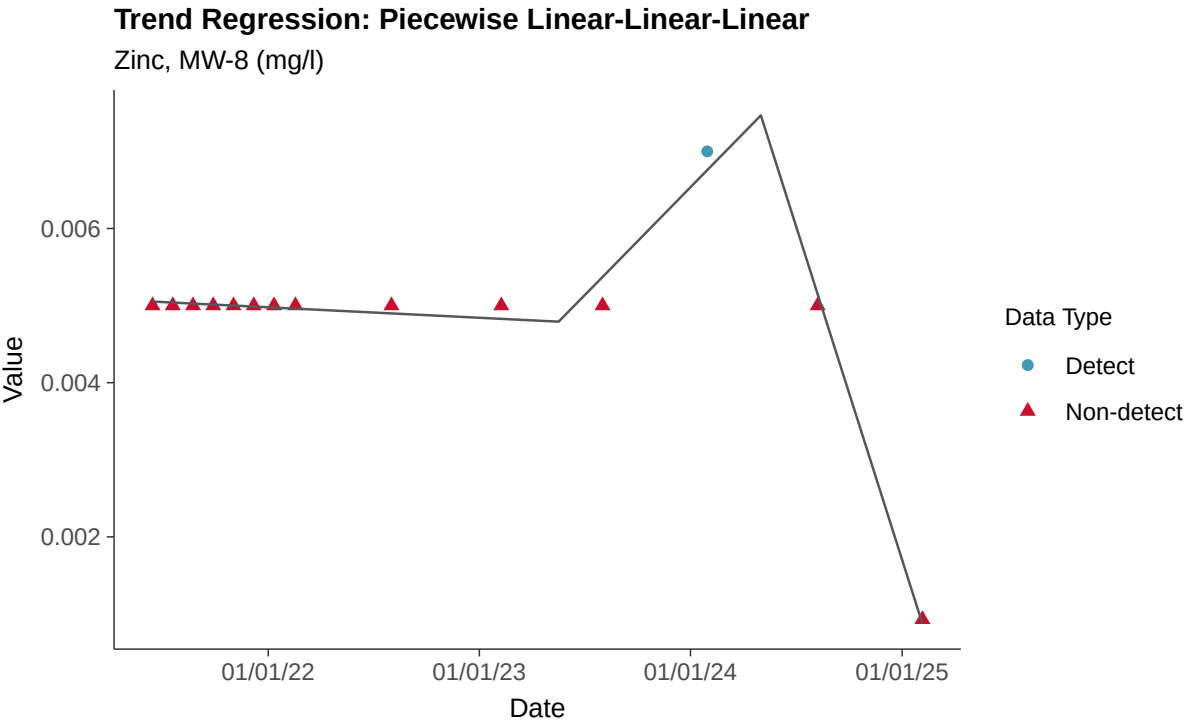
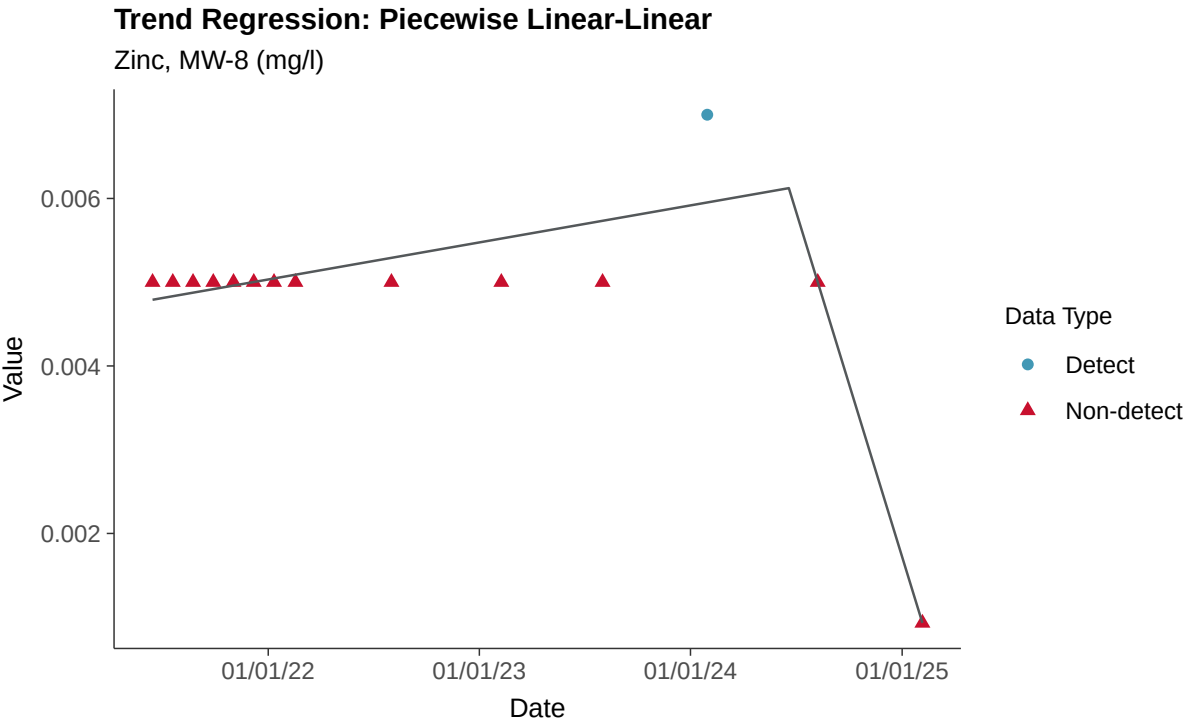


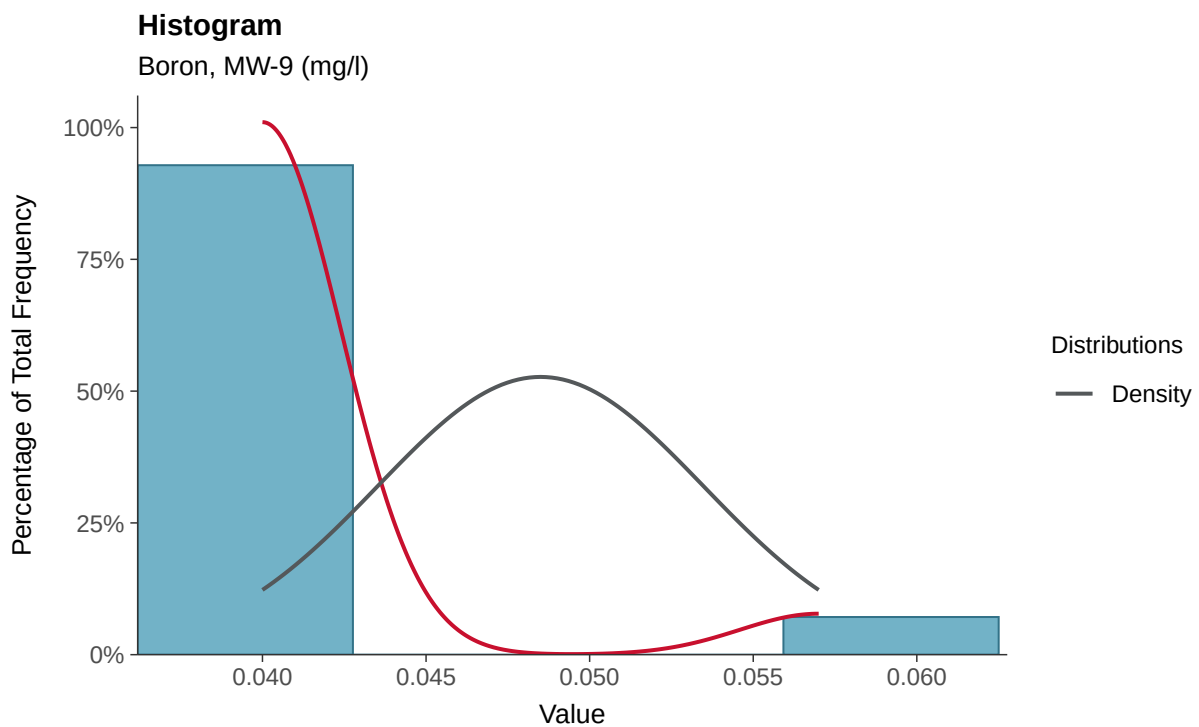
Part 115: Zinc, MW-8

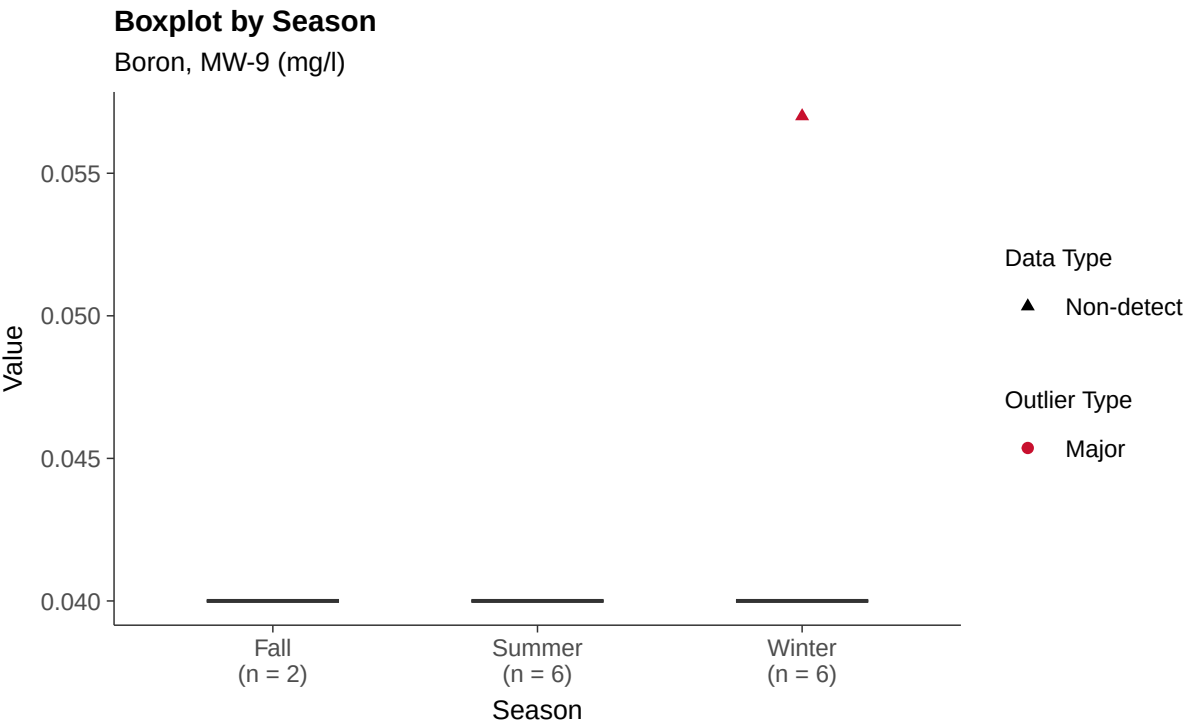
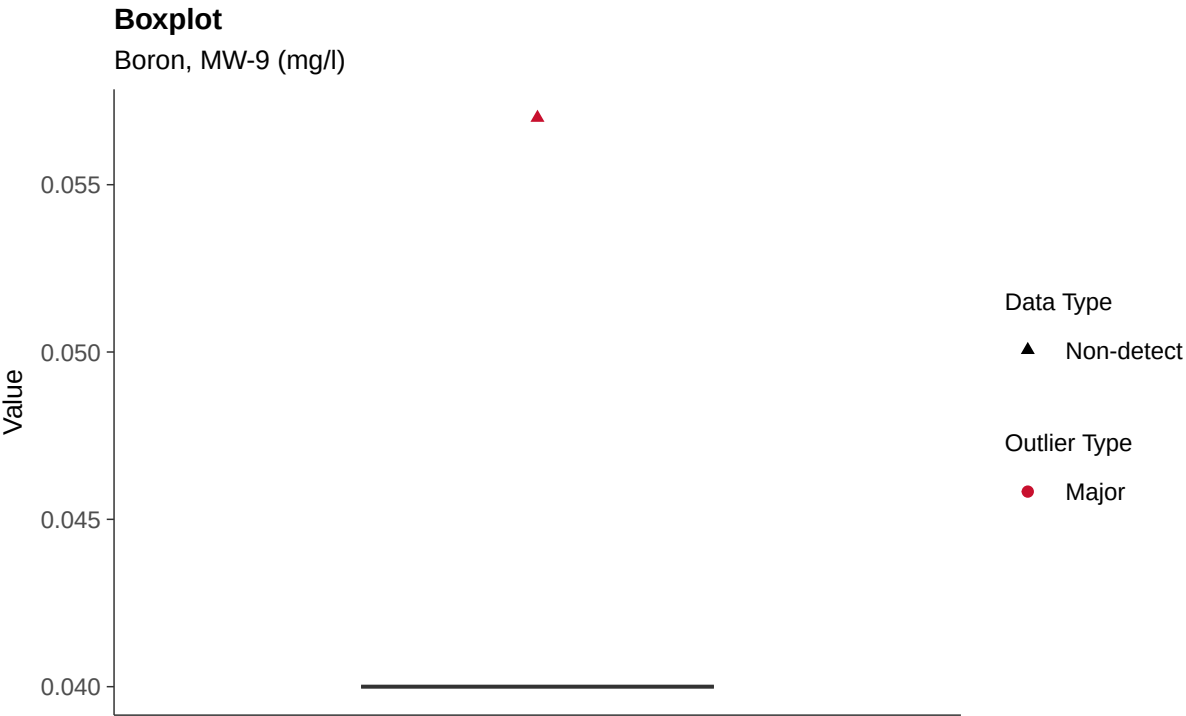
ID: 17_5_129







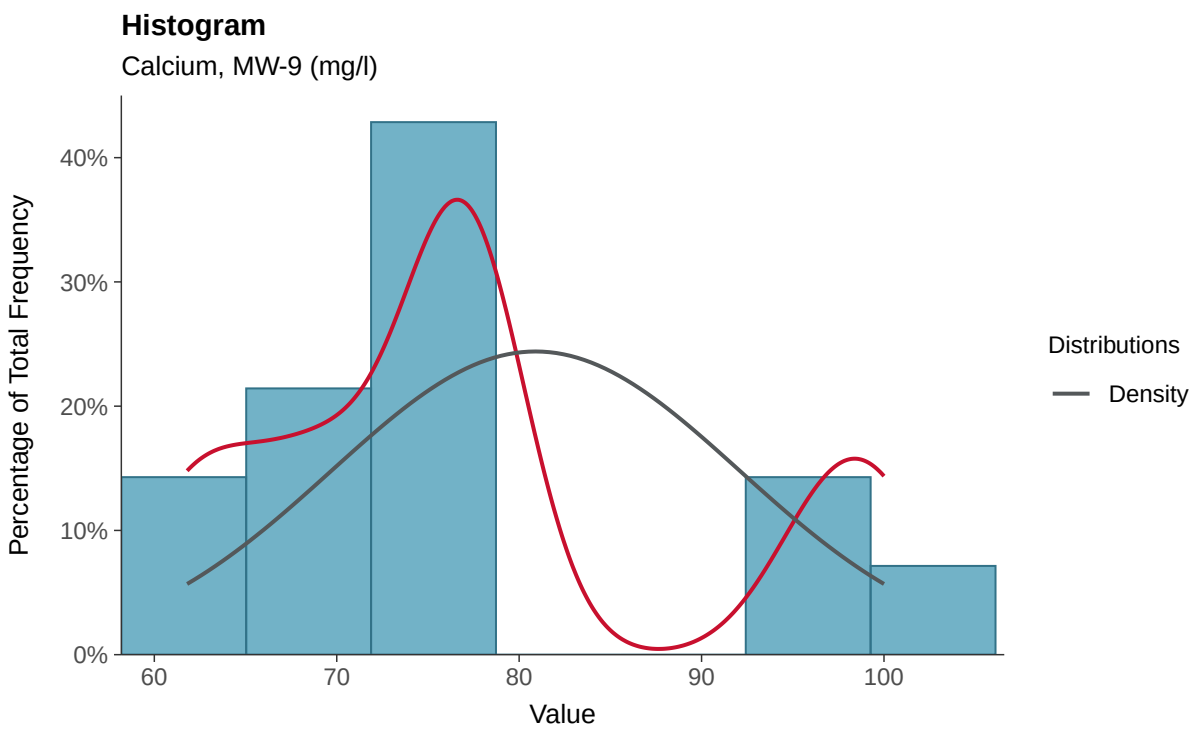
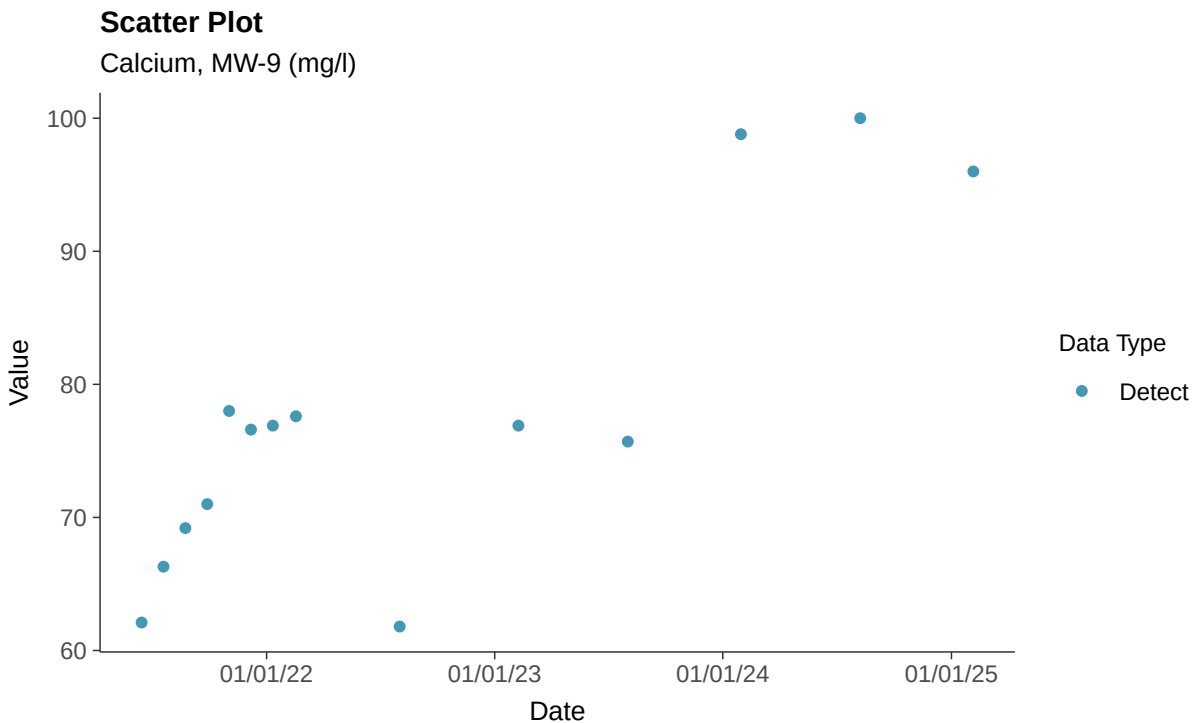


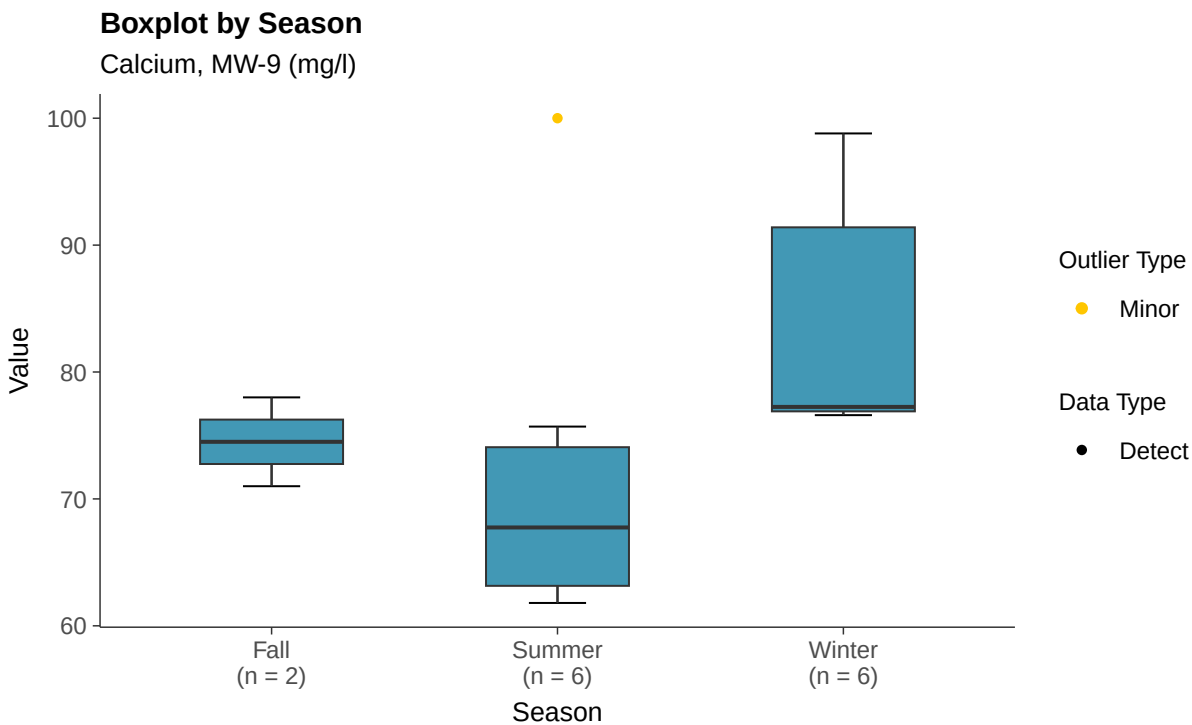
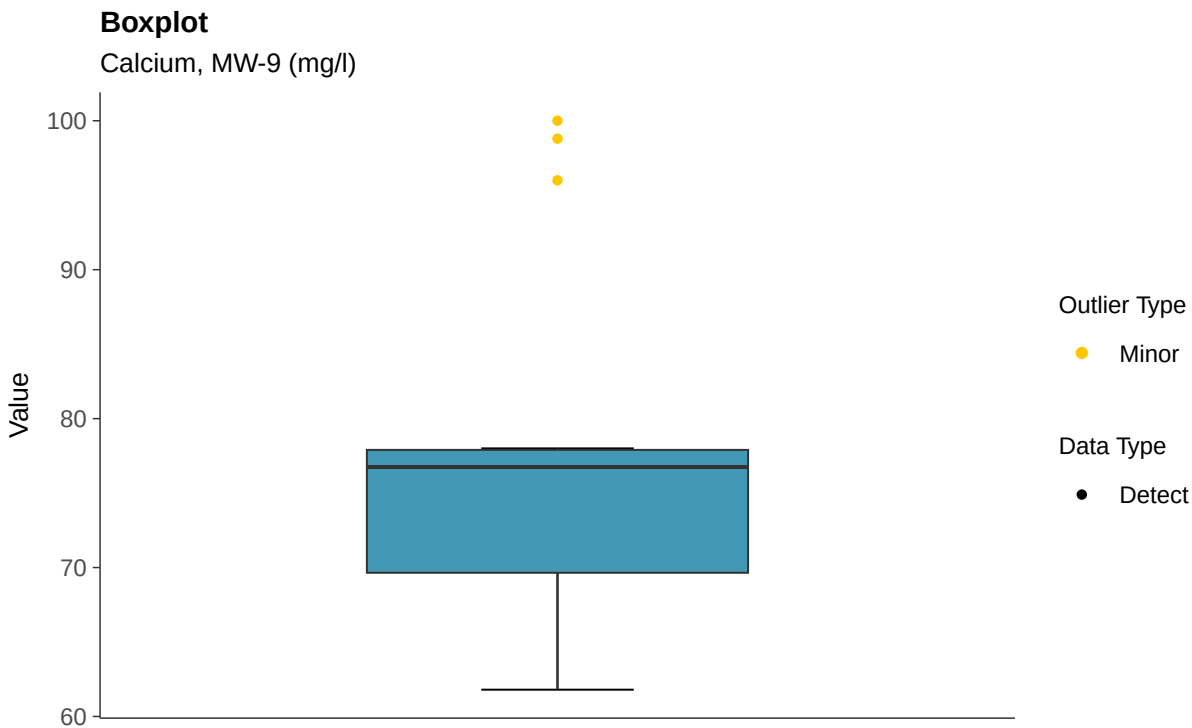




Appendix III: Calcium, MW-9

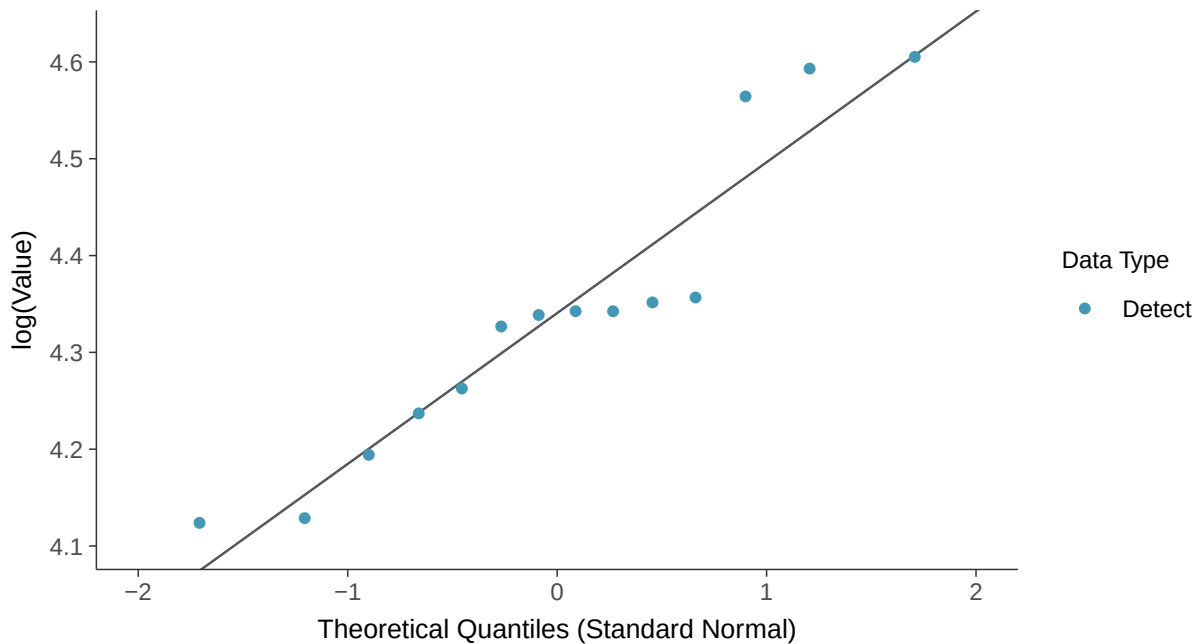
ID: 18_2_107



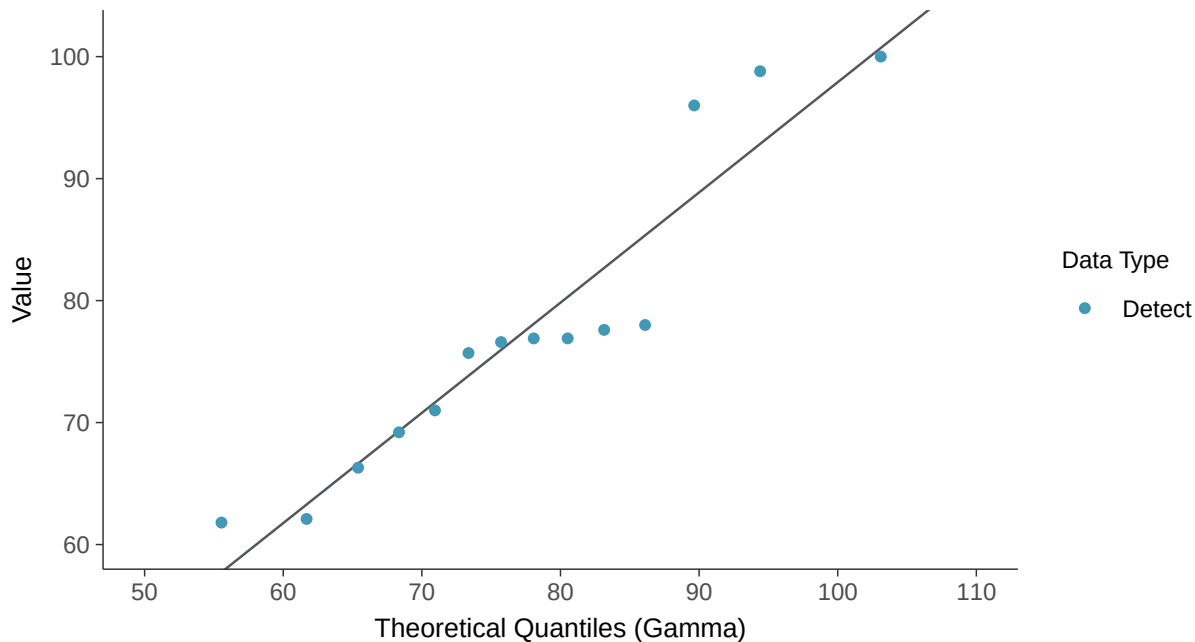




Lognormal Q-Q plot
Calcium, MW-9 (mg/l)

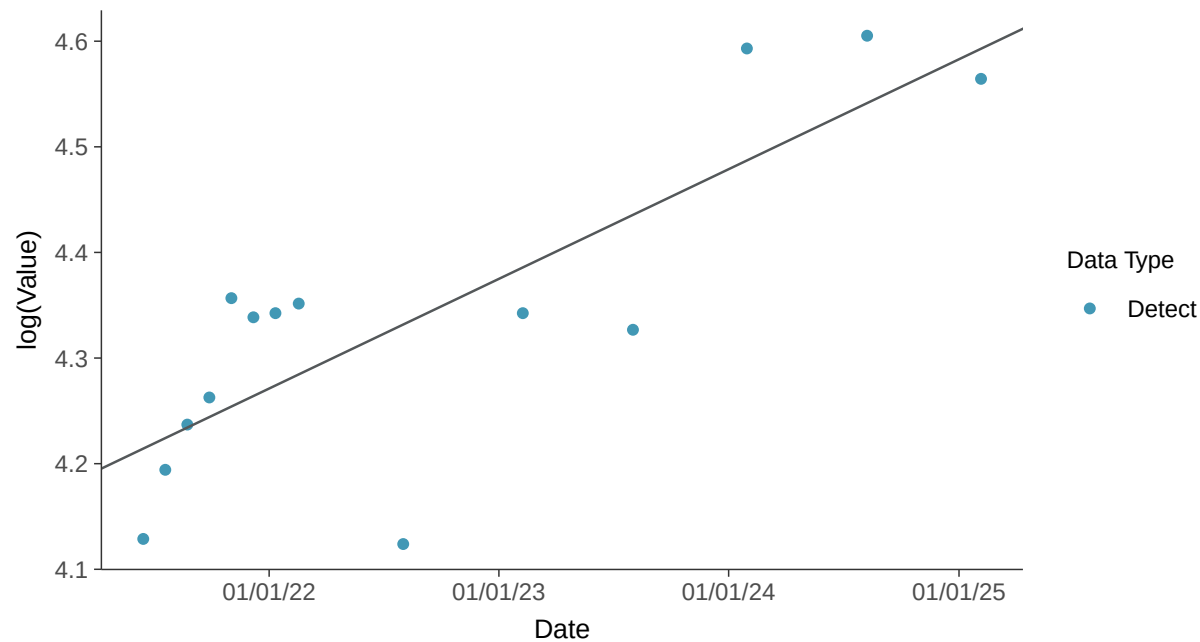


Gamma Q-Q plot
Calcium, MW-9 (mg/l)

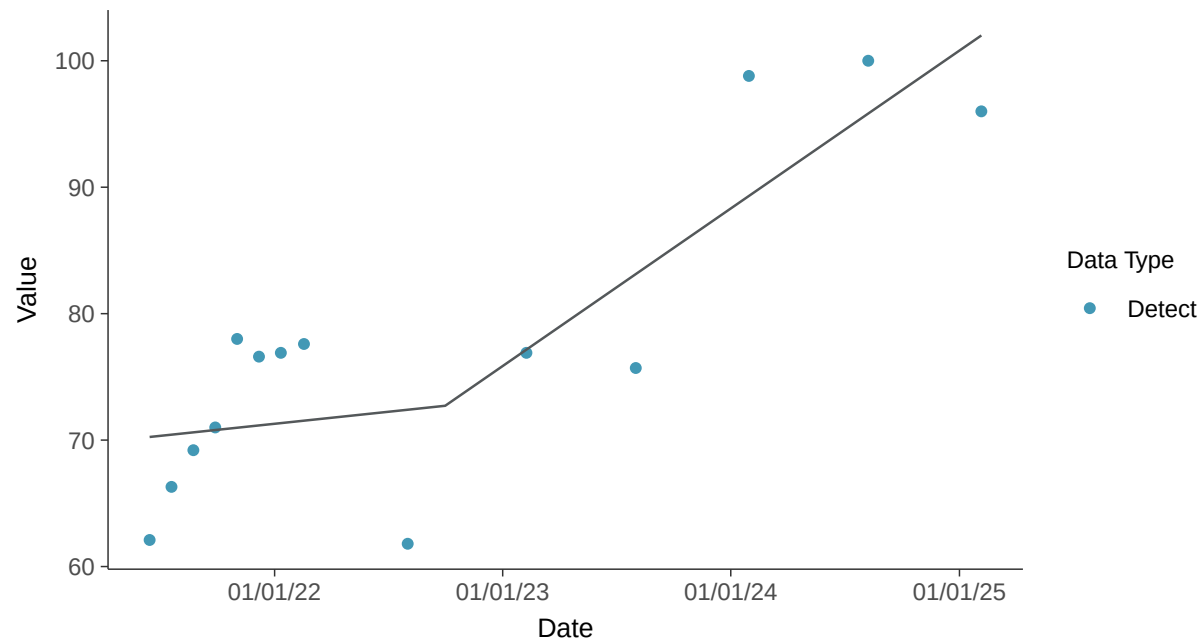


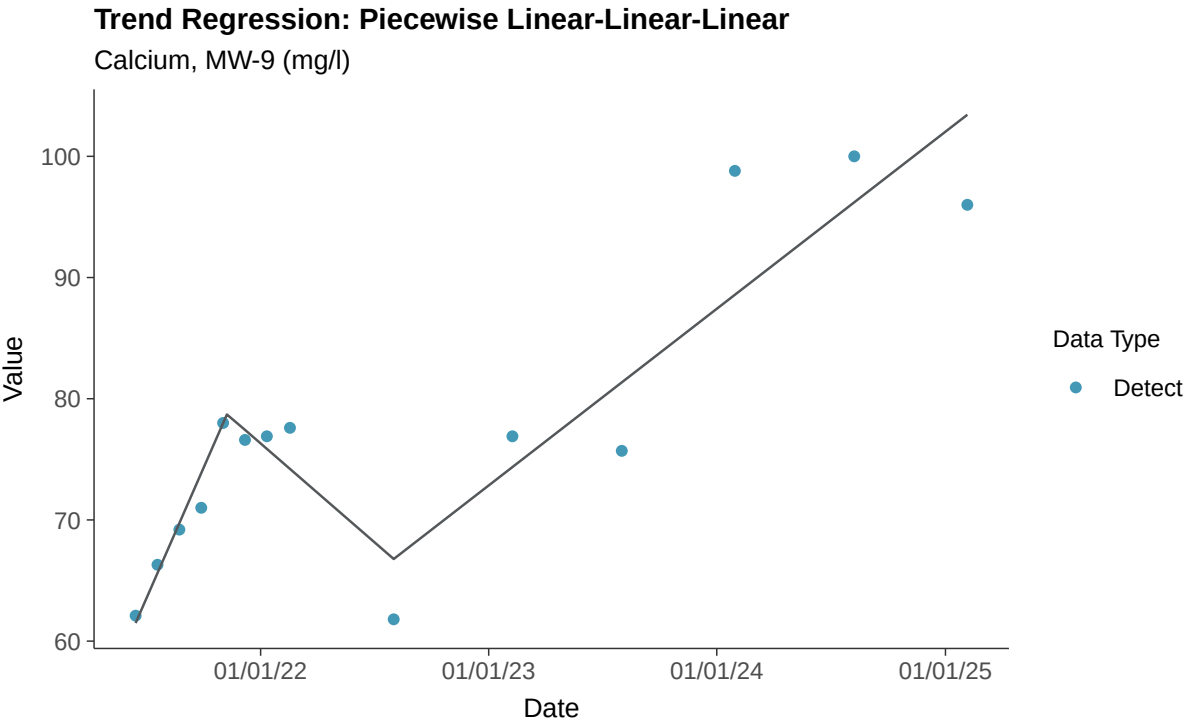


Trend Regression: Lognormal MLE
Calcium, MW-9 (mg/l)



Trend Regression: Piecewise Linear-Linear
Calcium, MW-9 (mg/l)

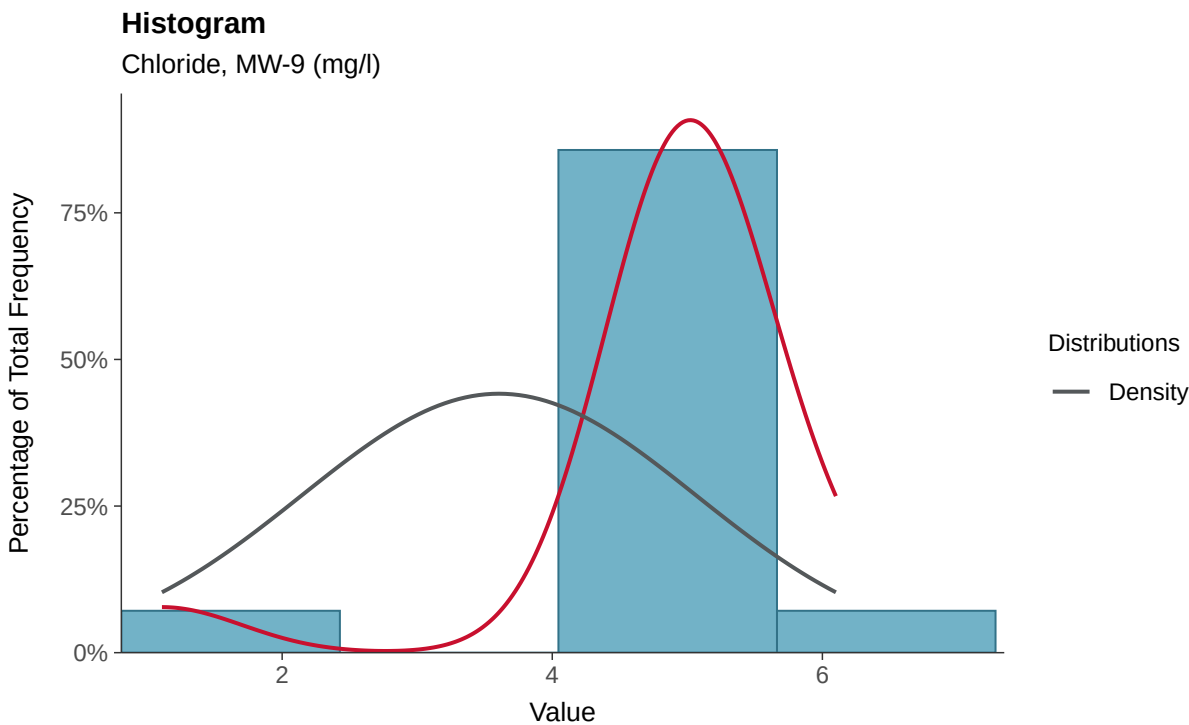
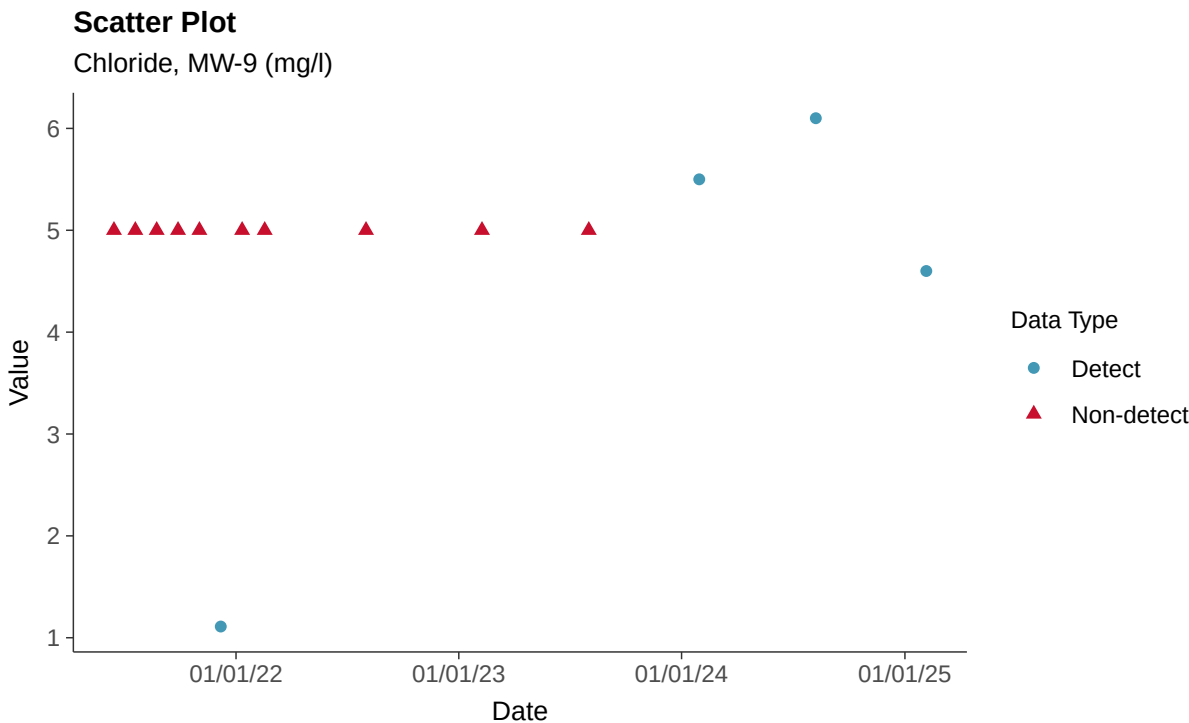


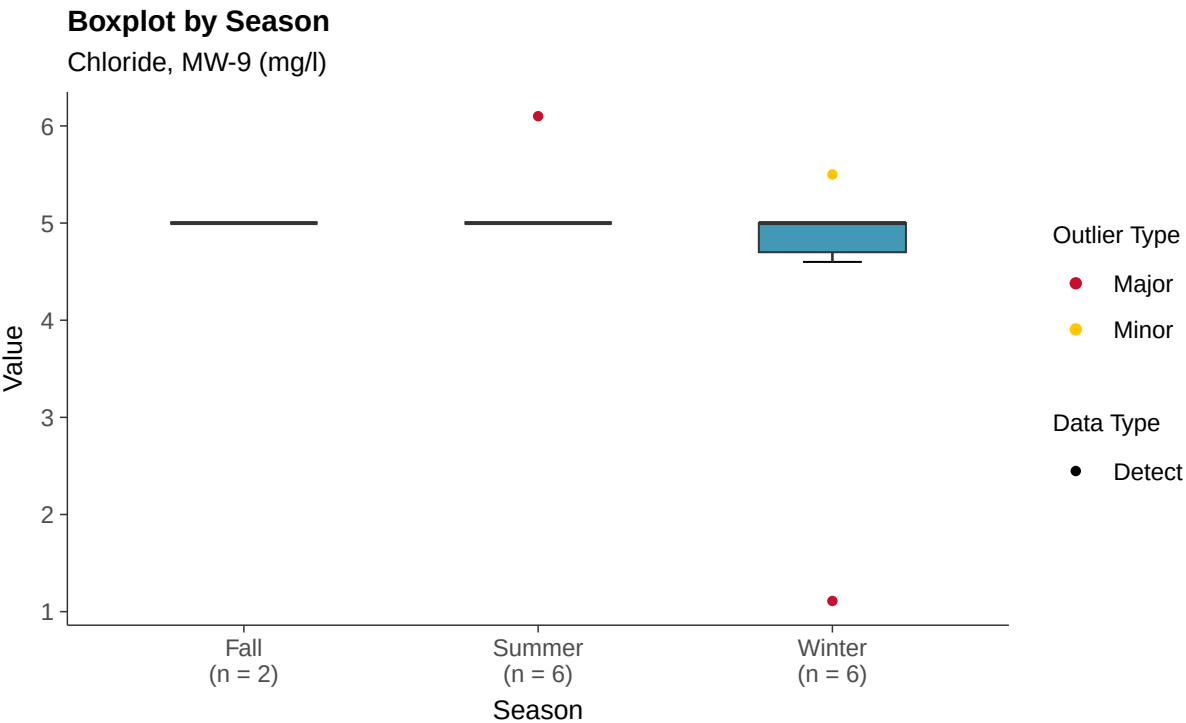
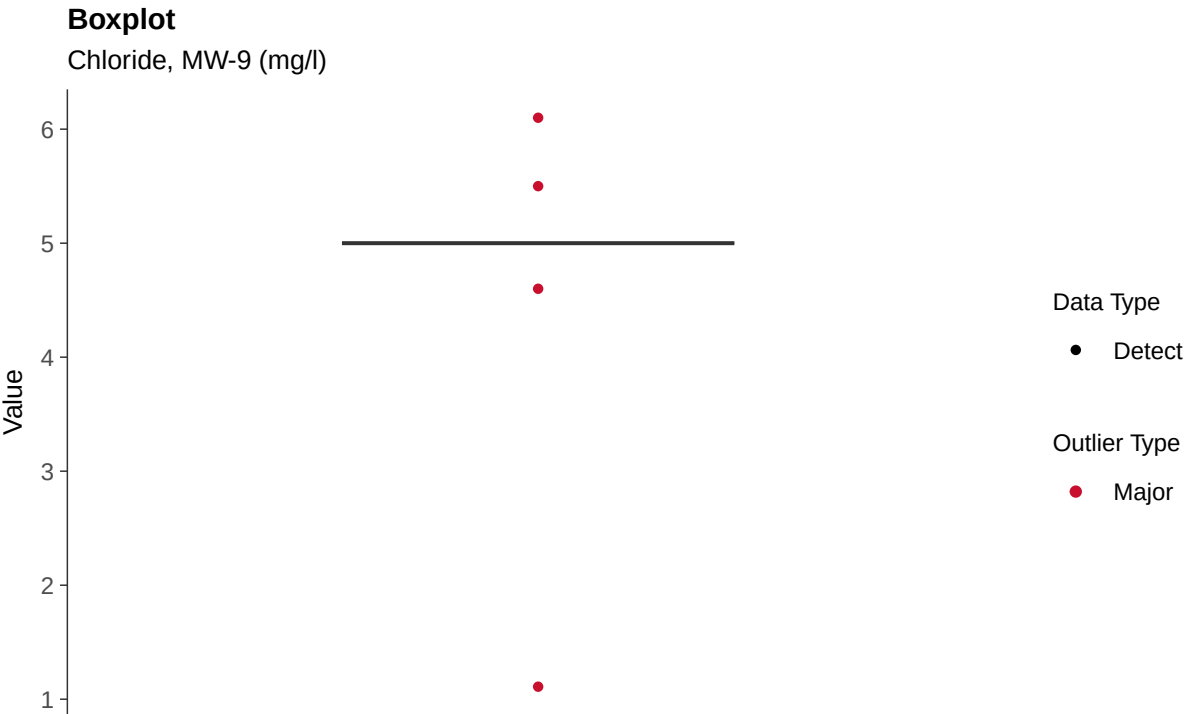




Appendix III: Chloride, MW-9

ID: 18_2_108

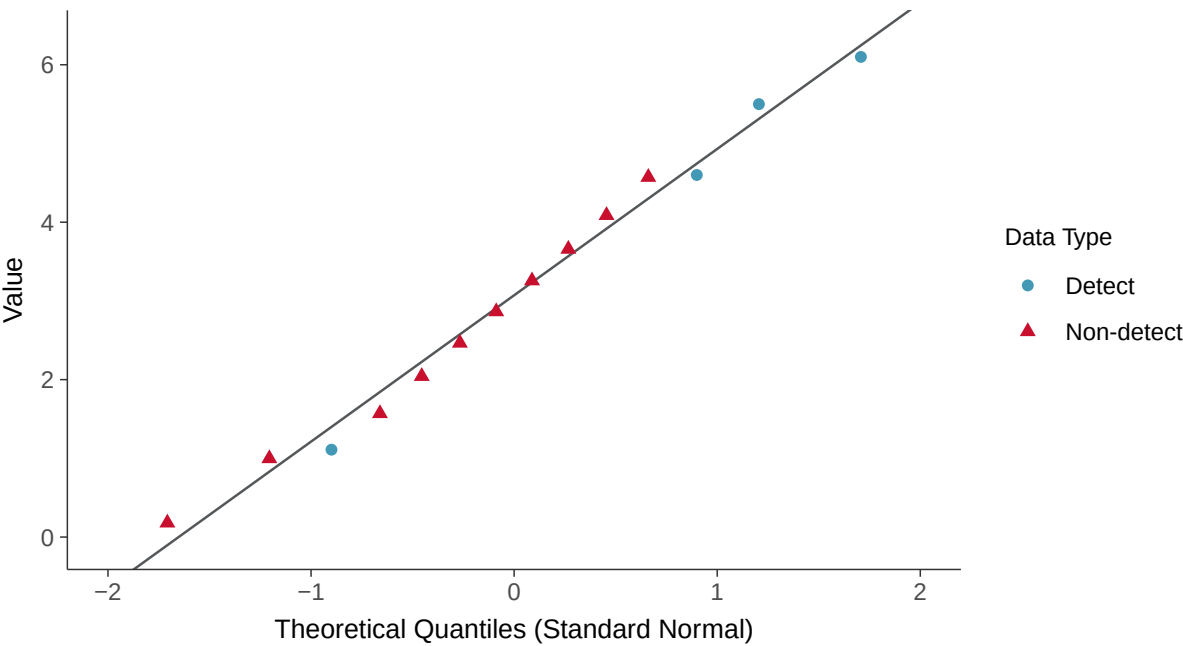






Normal Q-Q plot using ROS Imputed Estimates

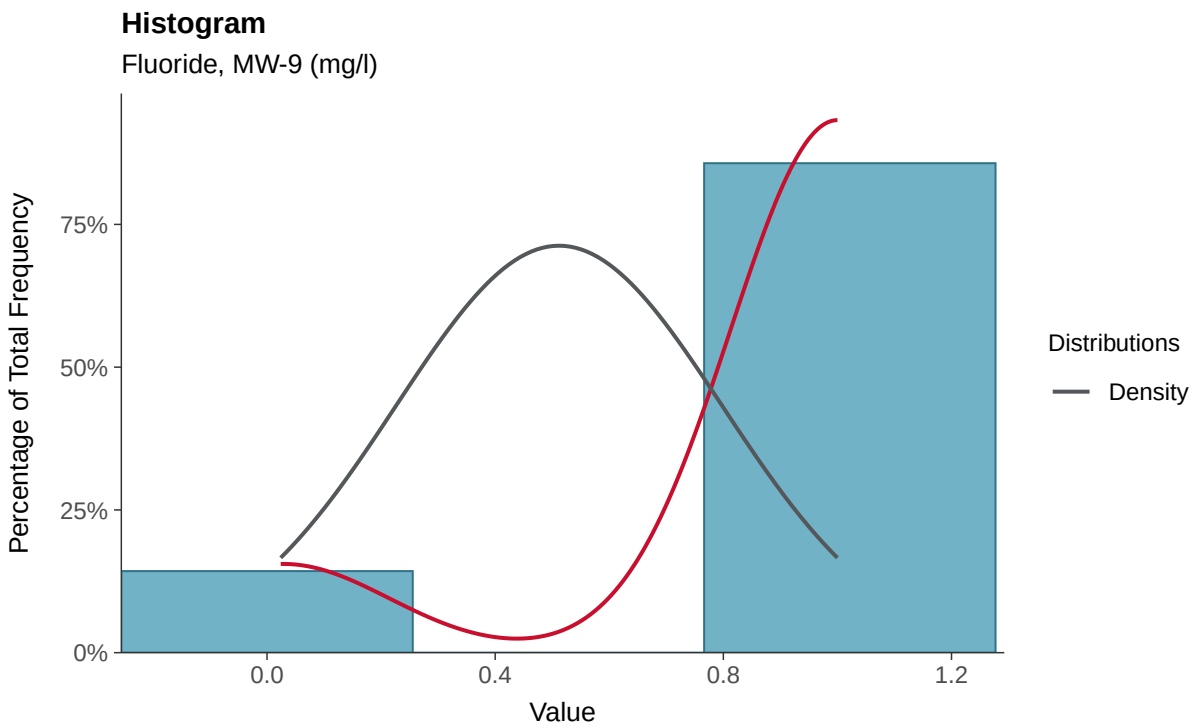
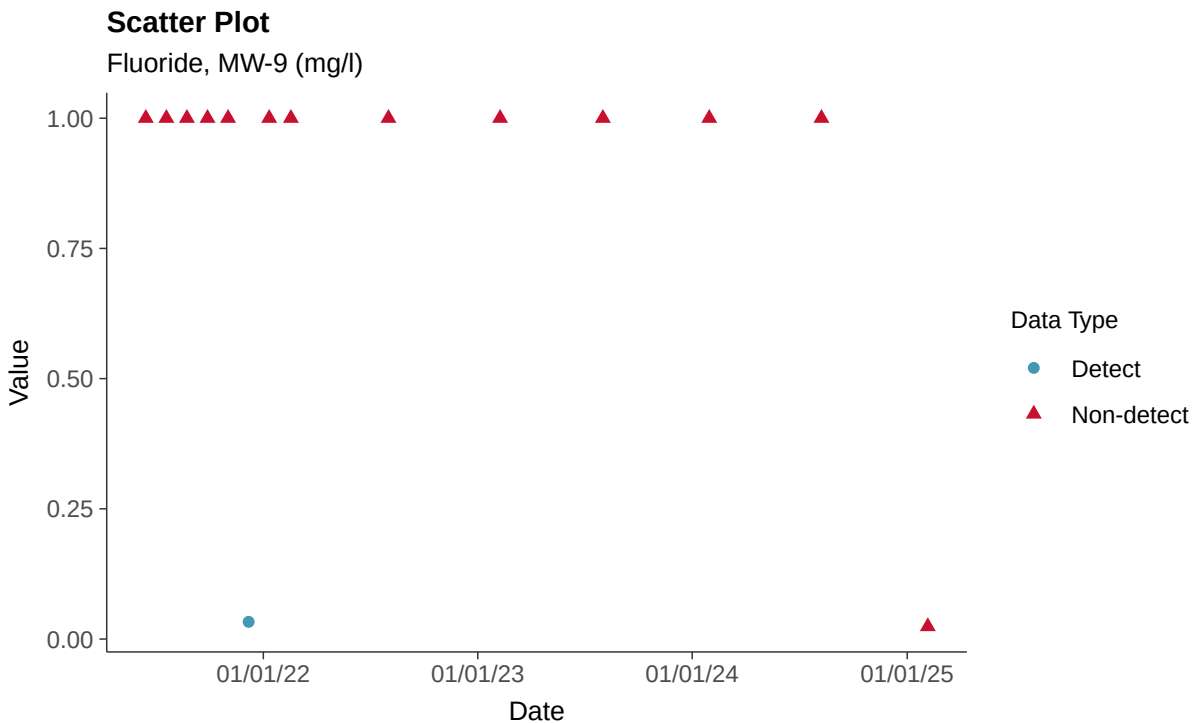
Chloride, MW-9 (mg/l)

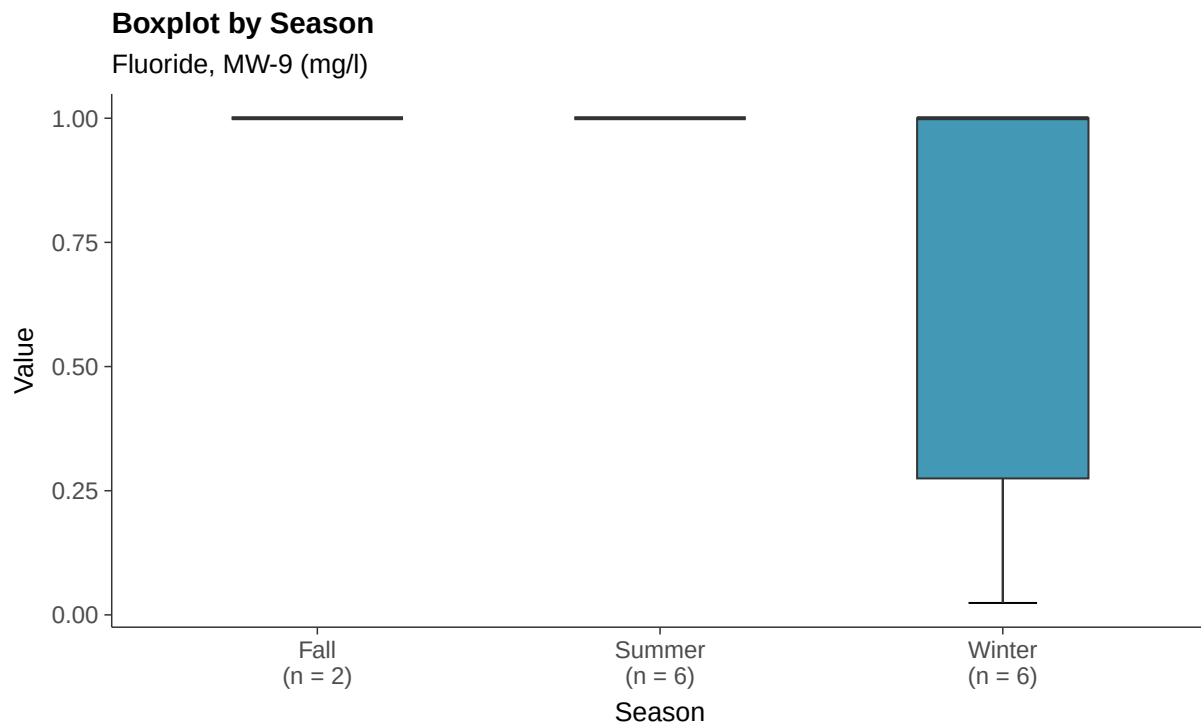
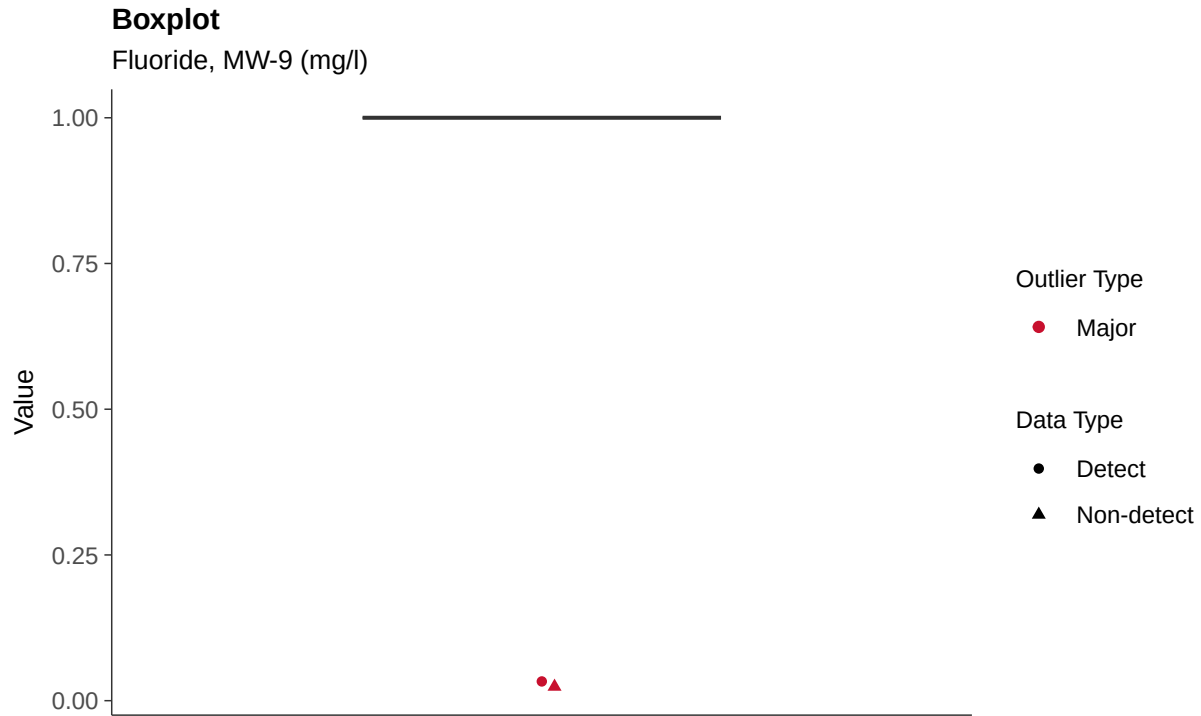


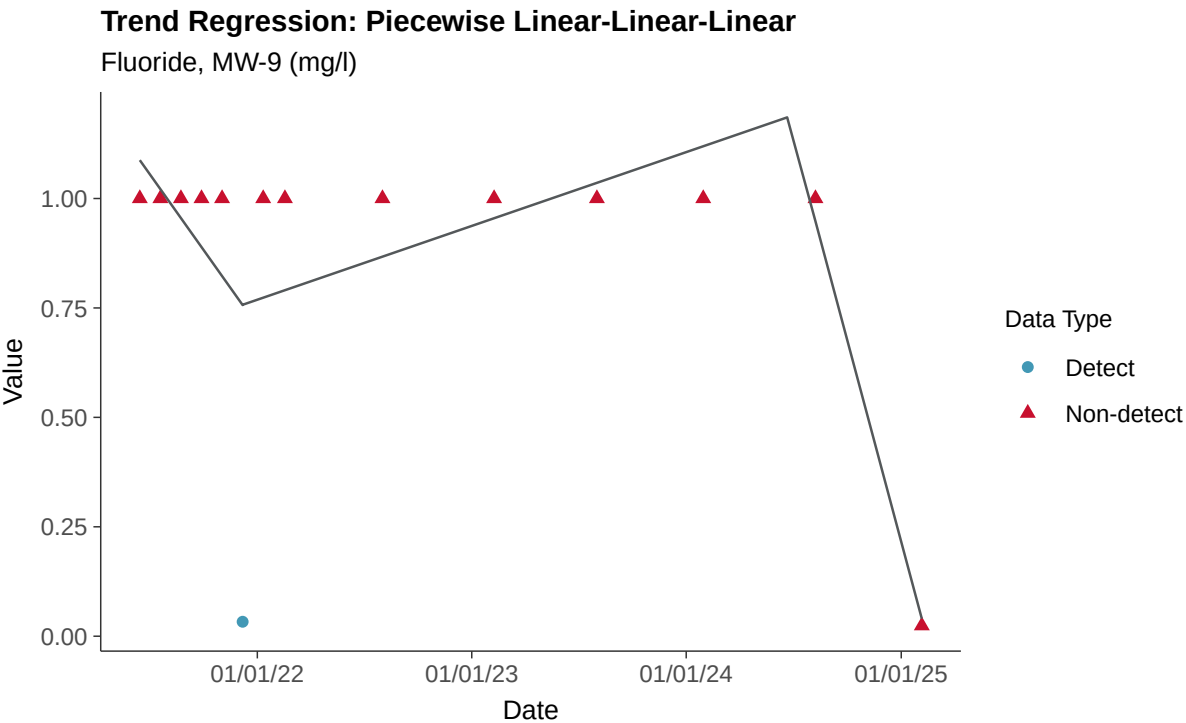
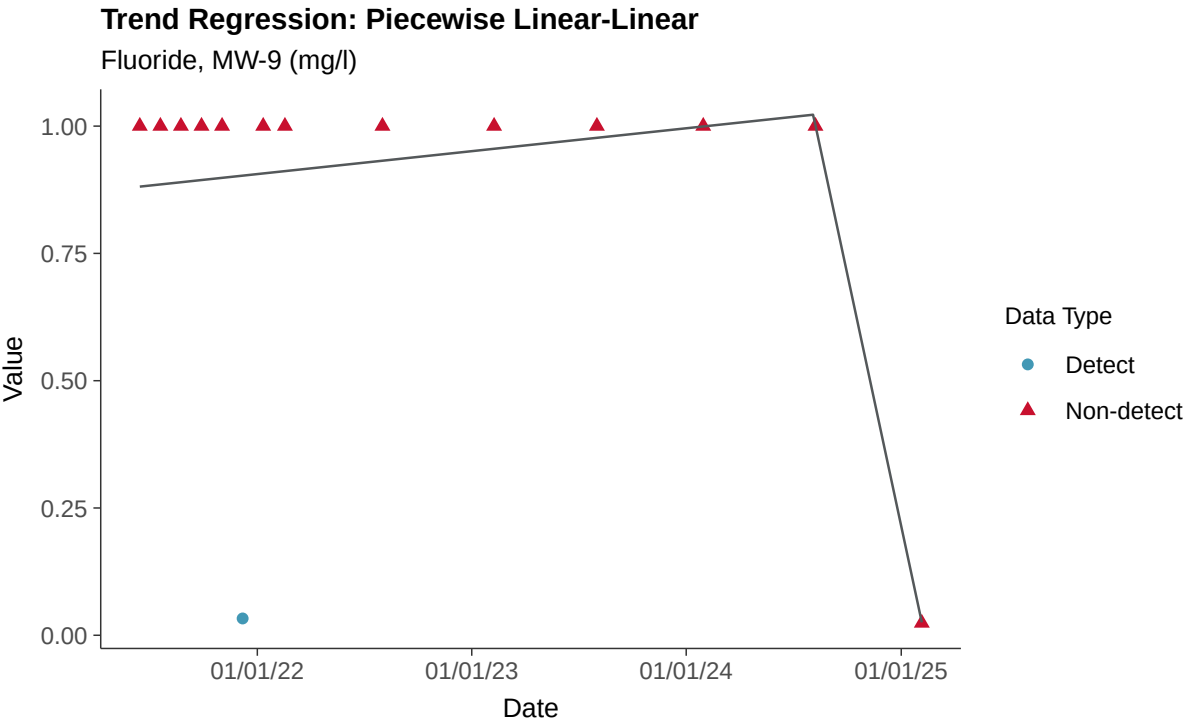


Appendix III: Fluoride, MW-9

ID: 18_2_112



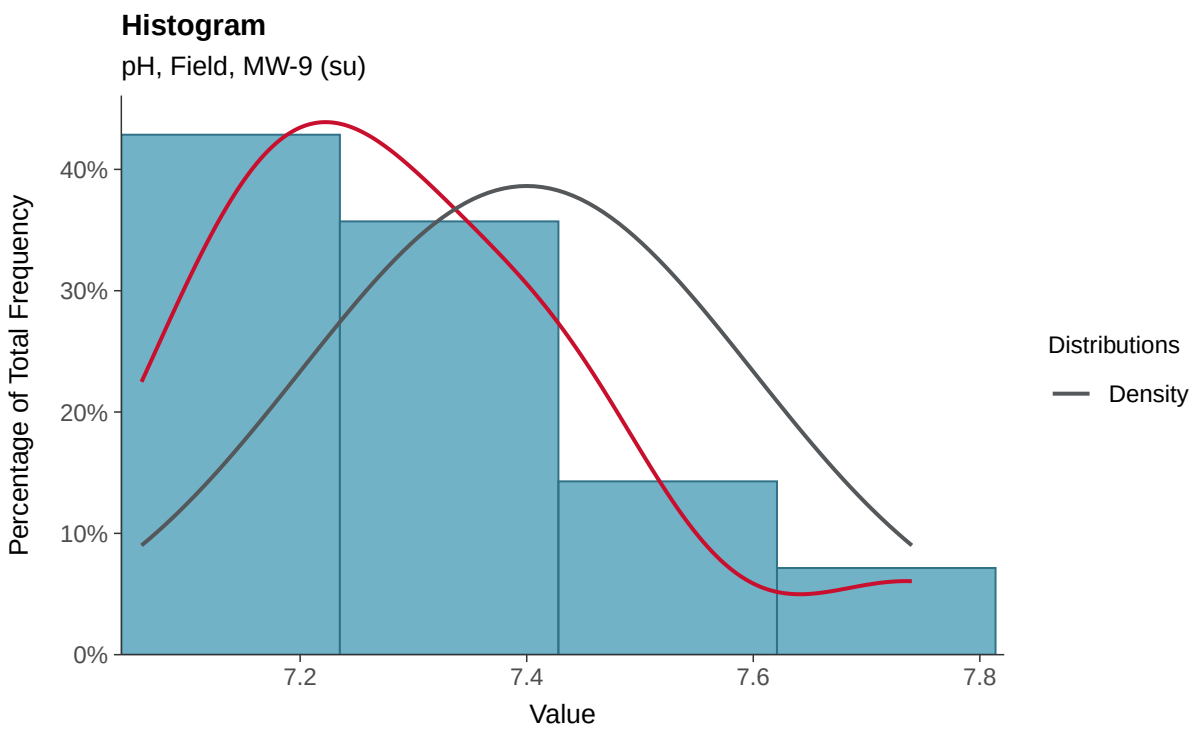
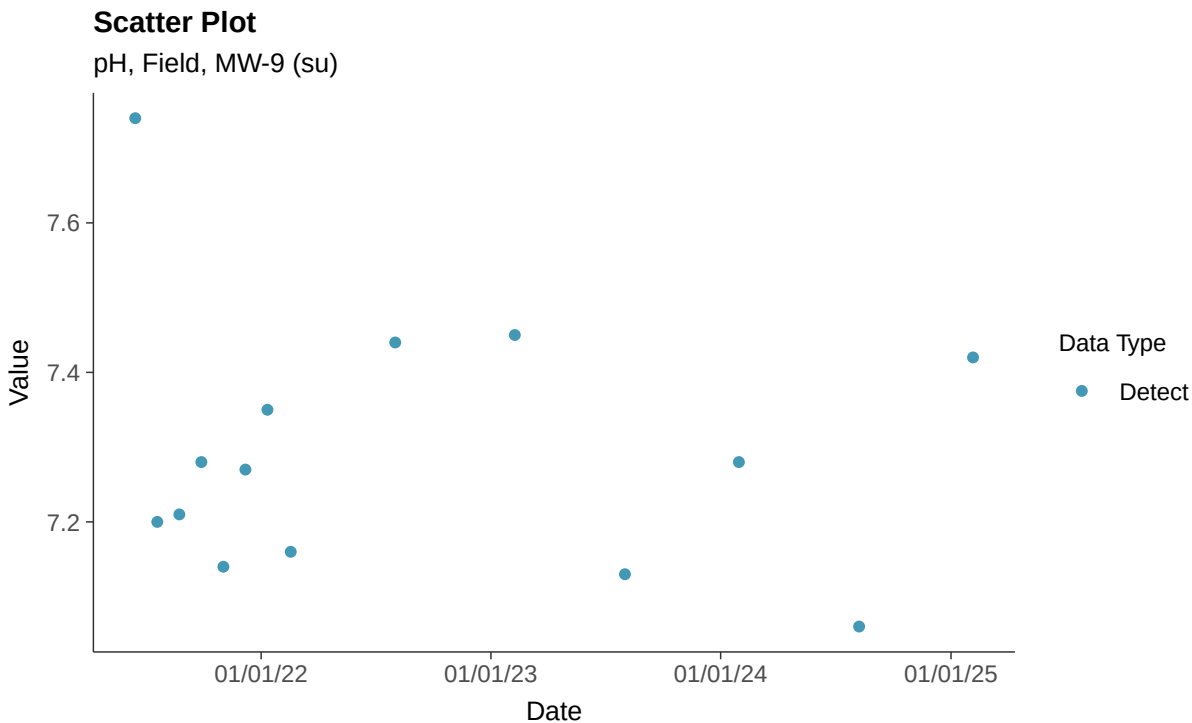


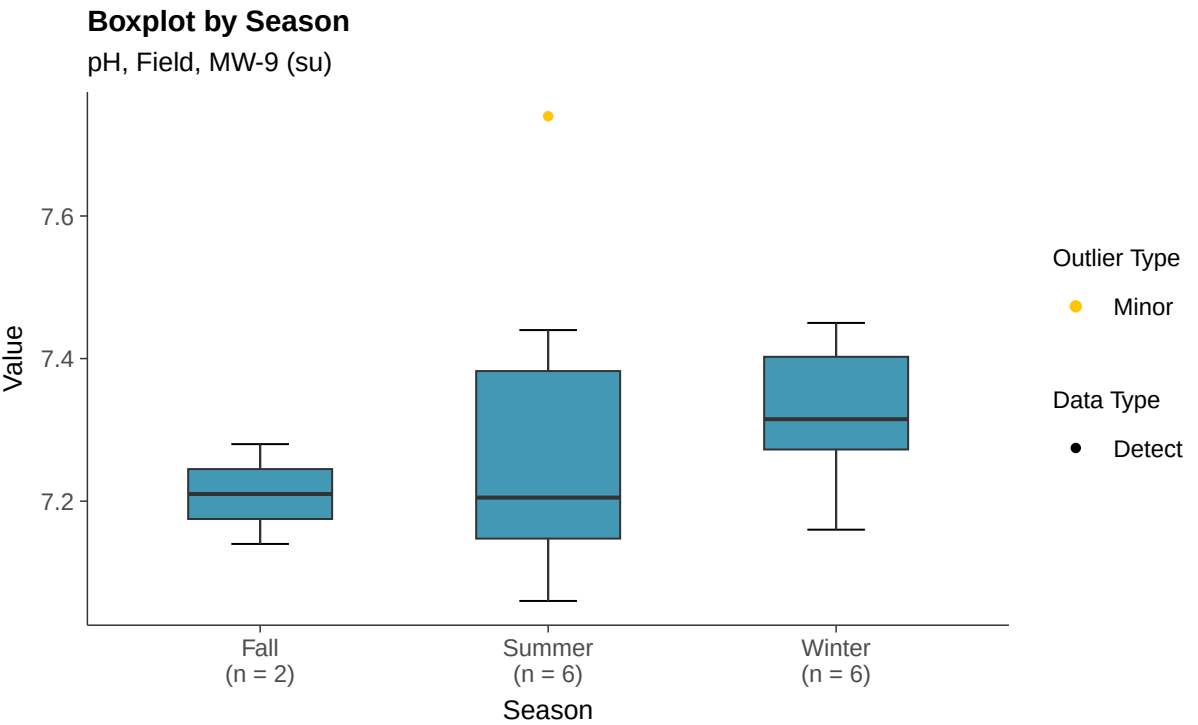
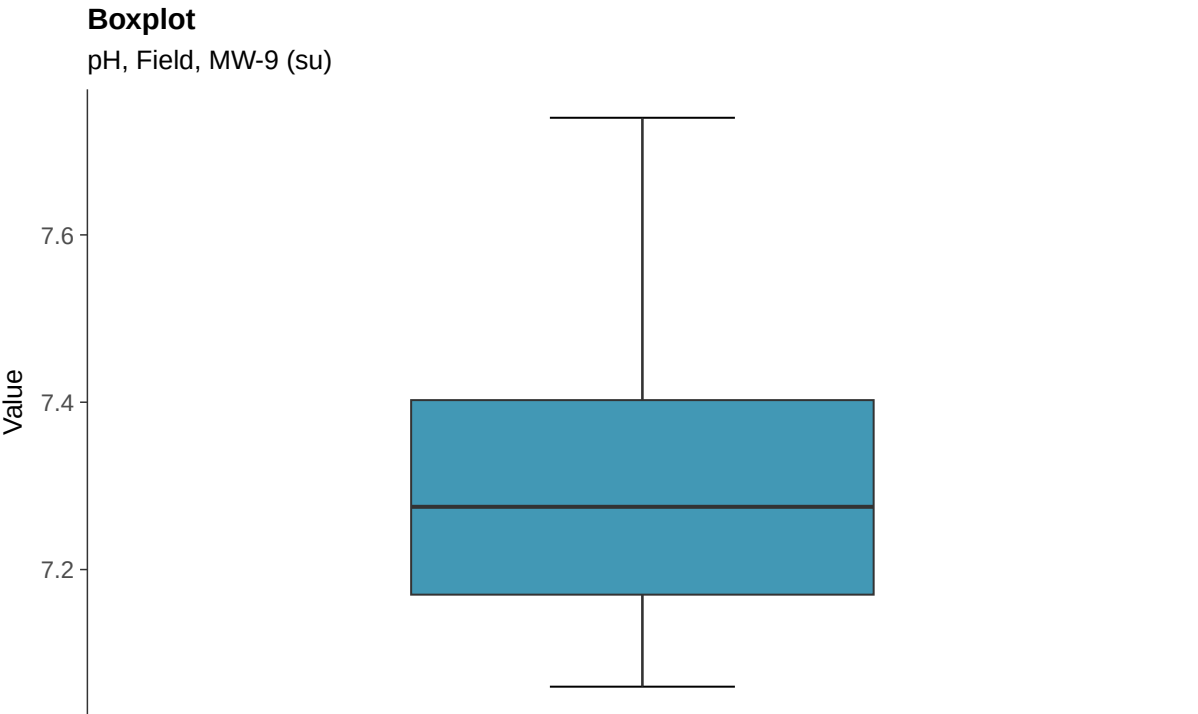


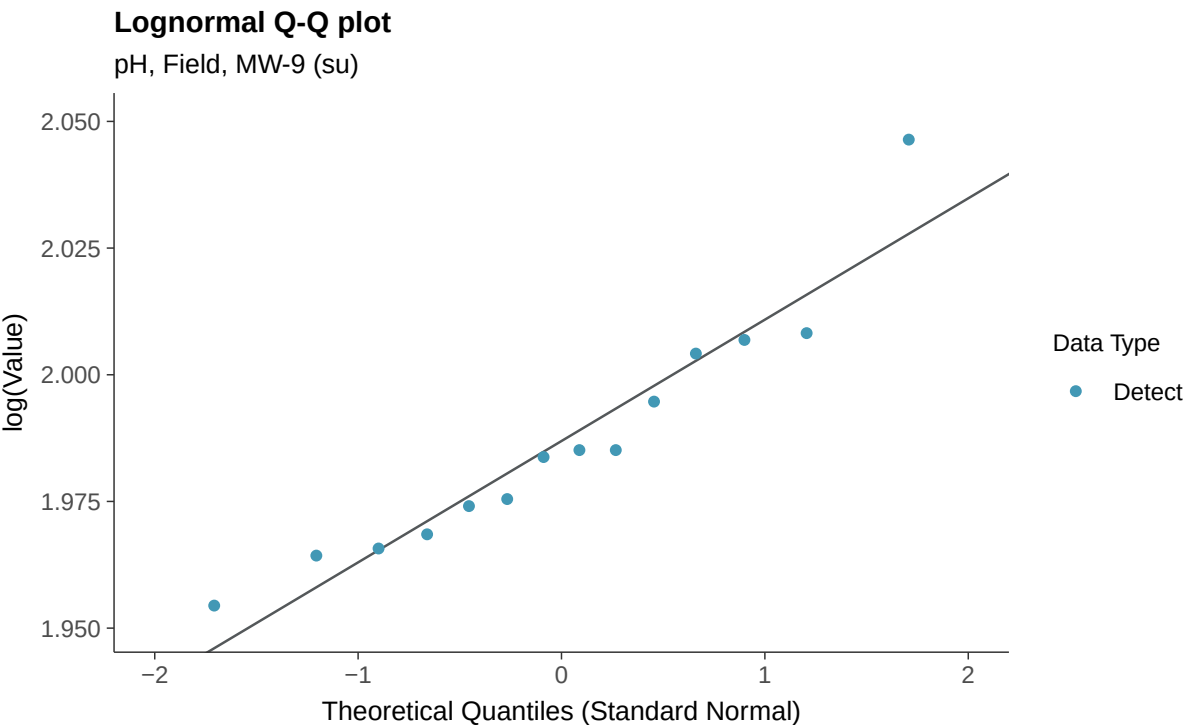
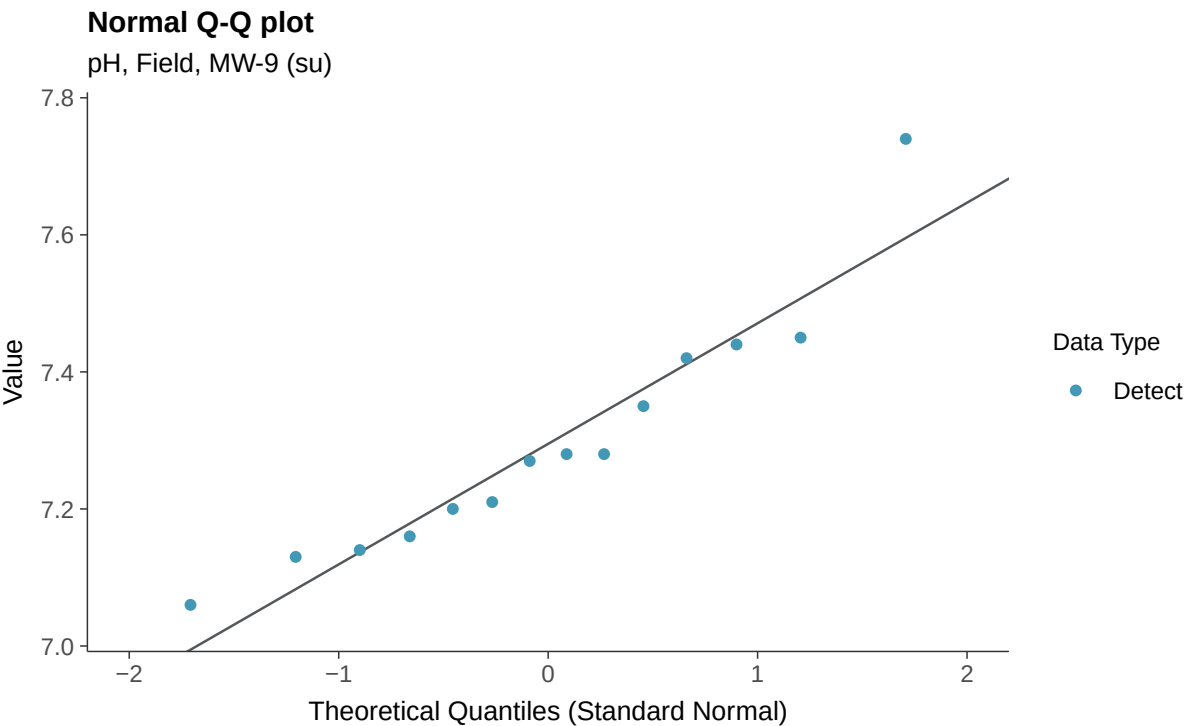


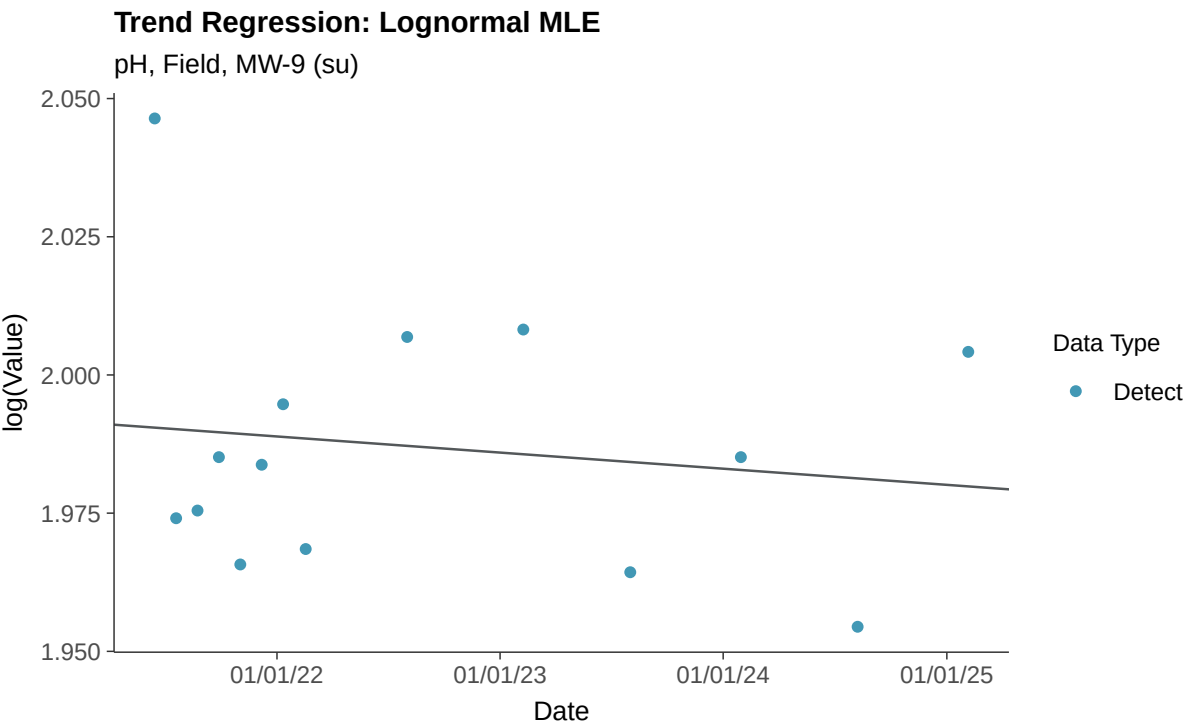
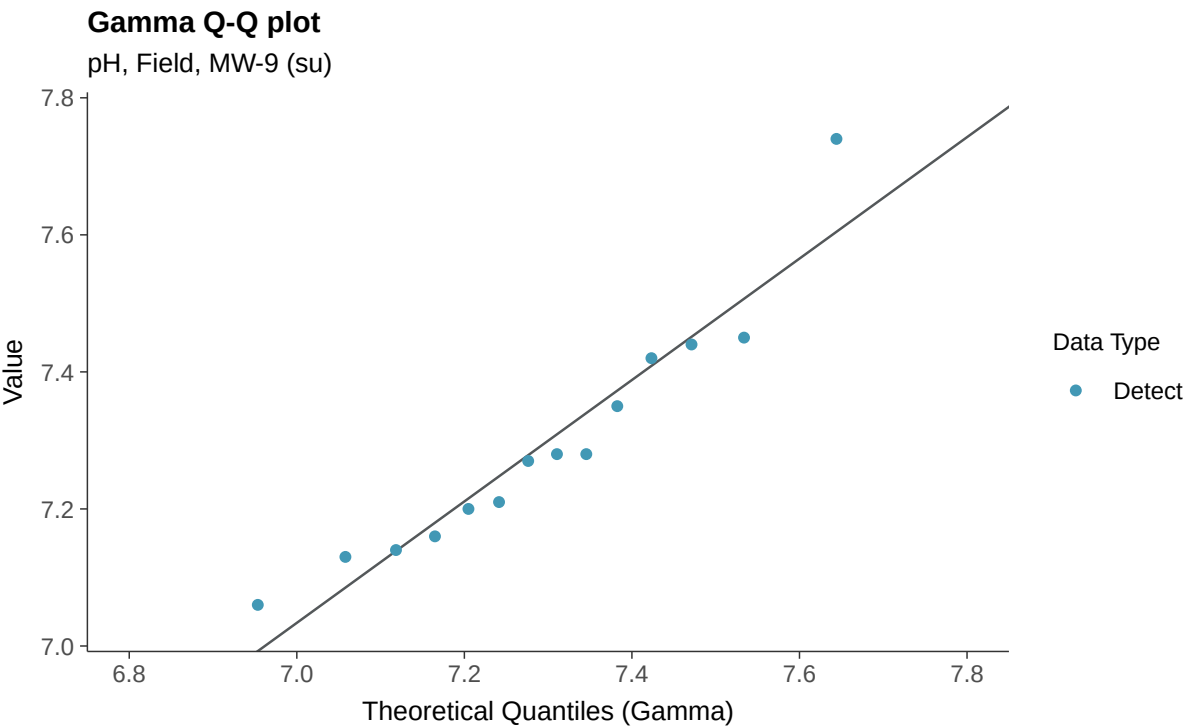
Appendix III: pH, Field, MW-9

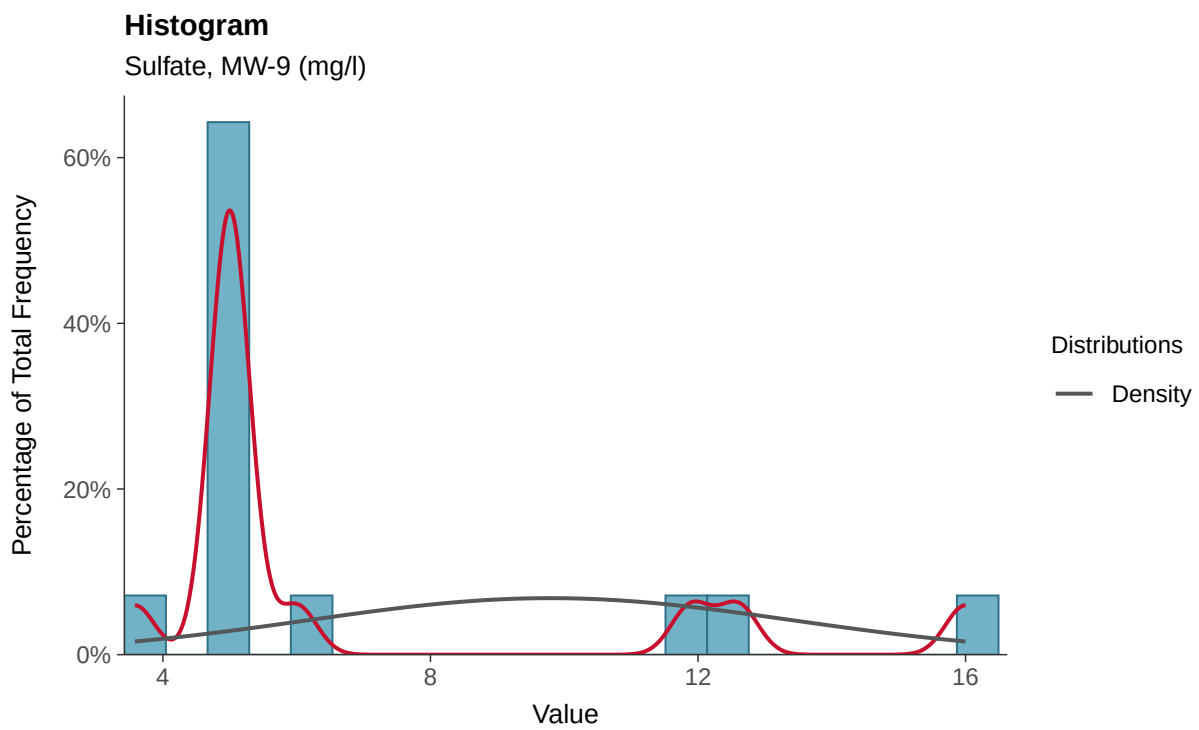
ID: 18_2_120

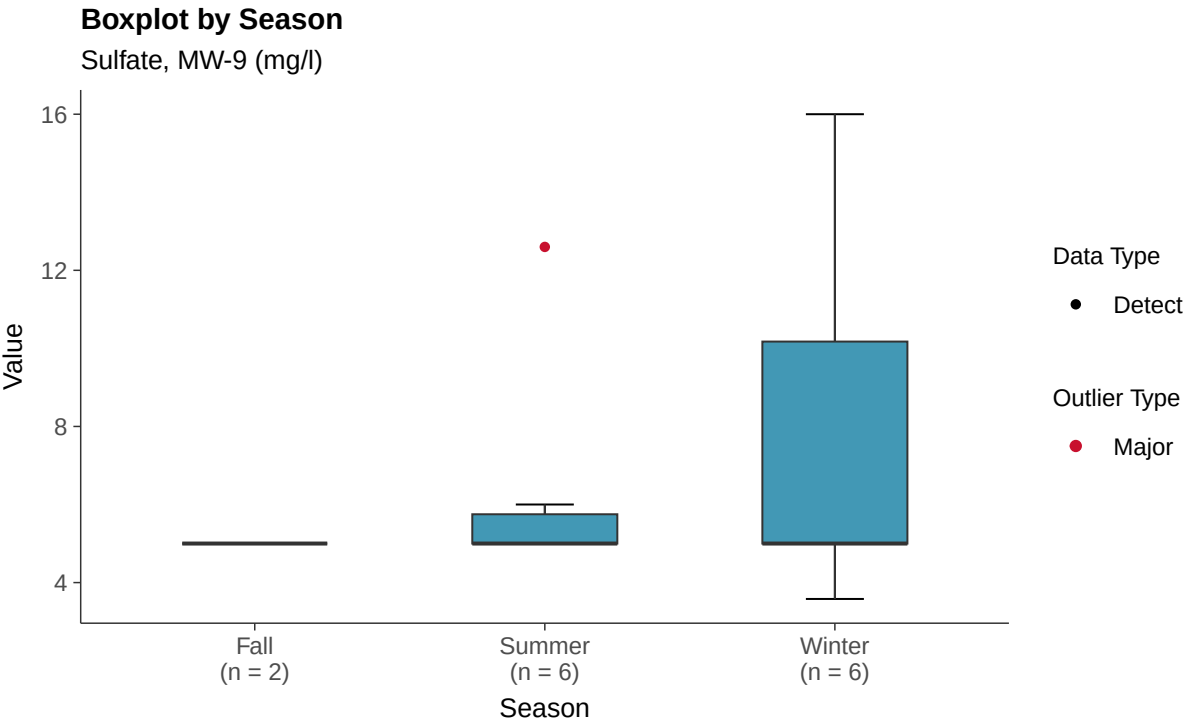
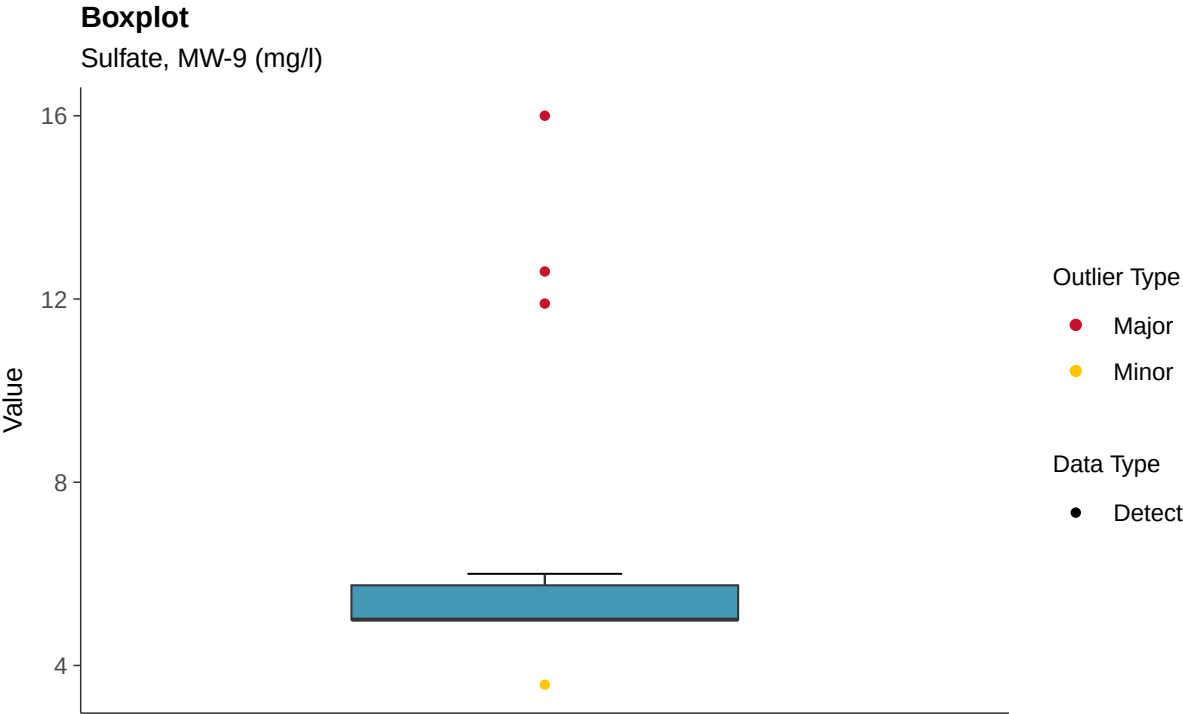


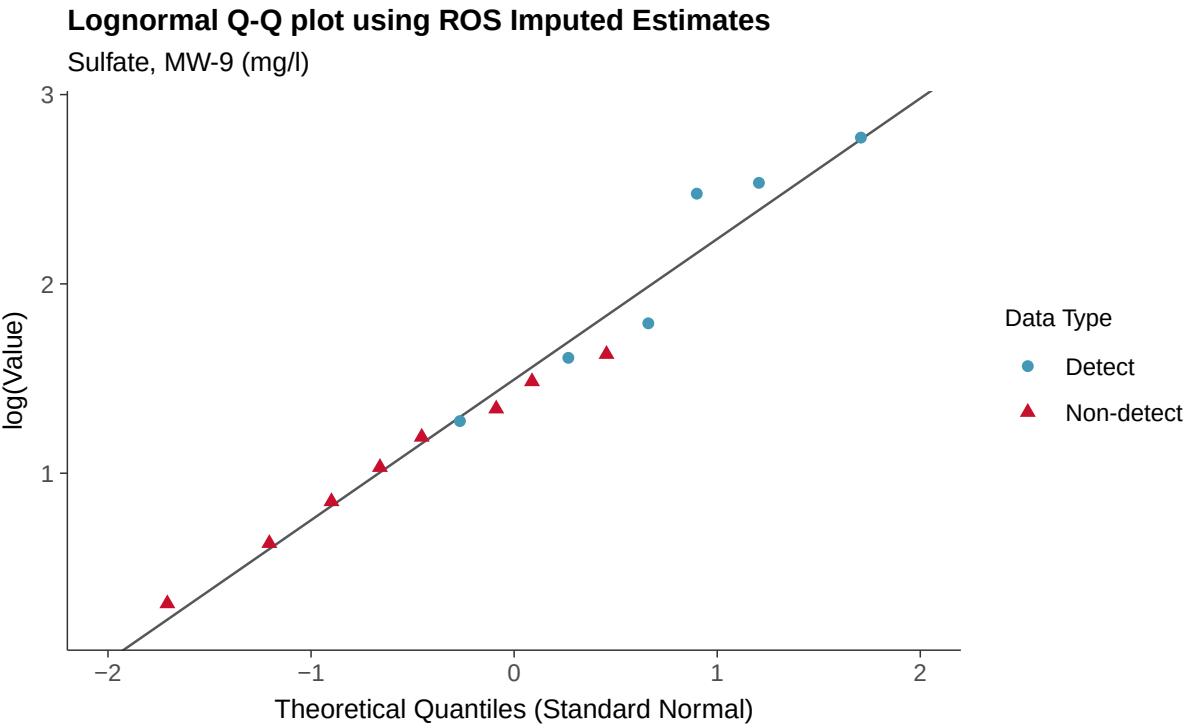
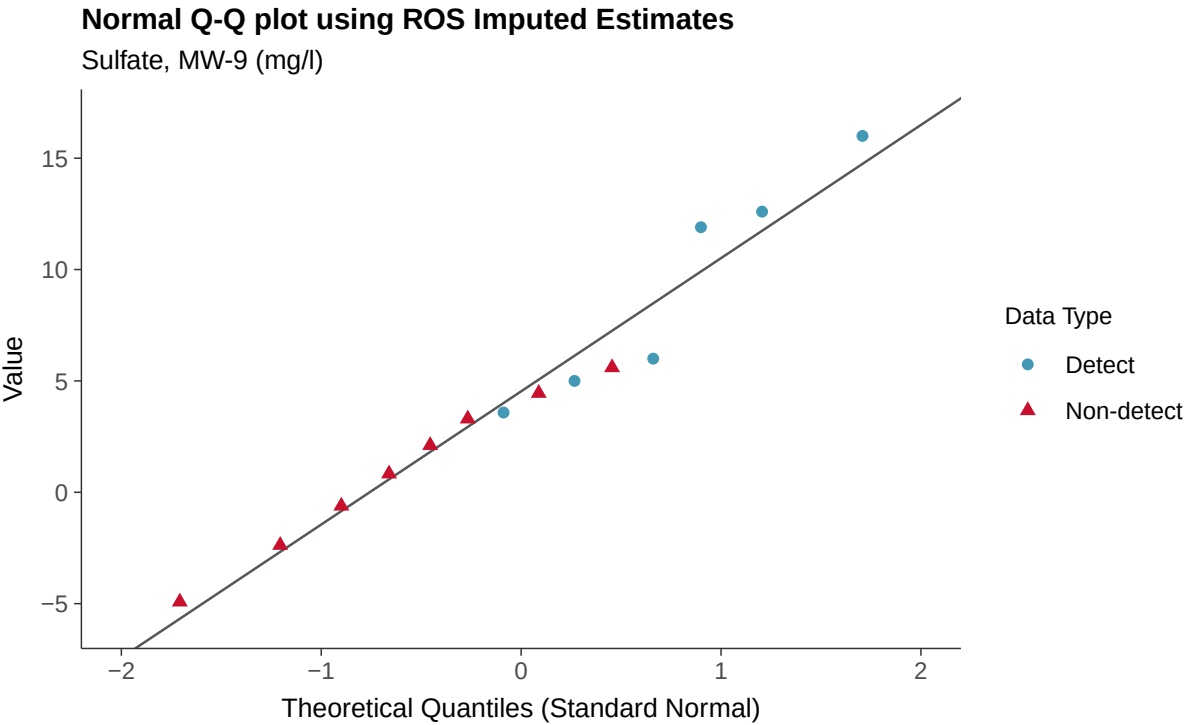








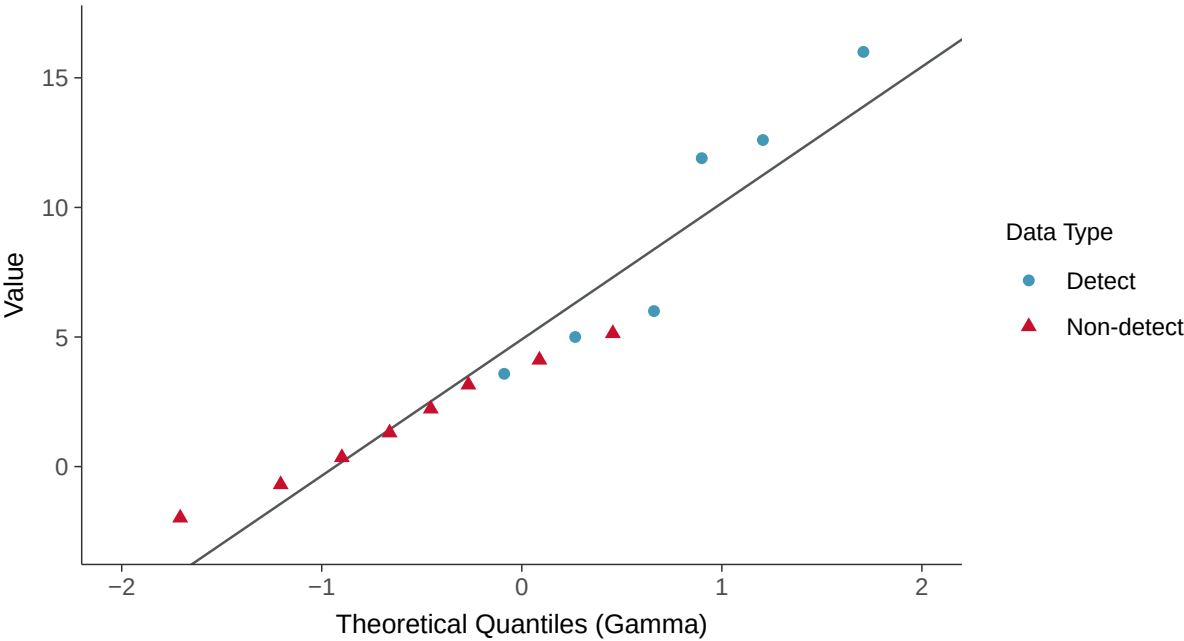






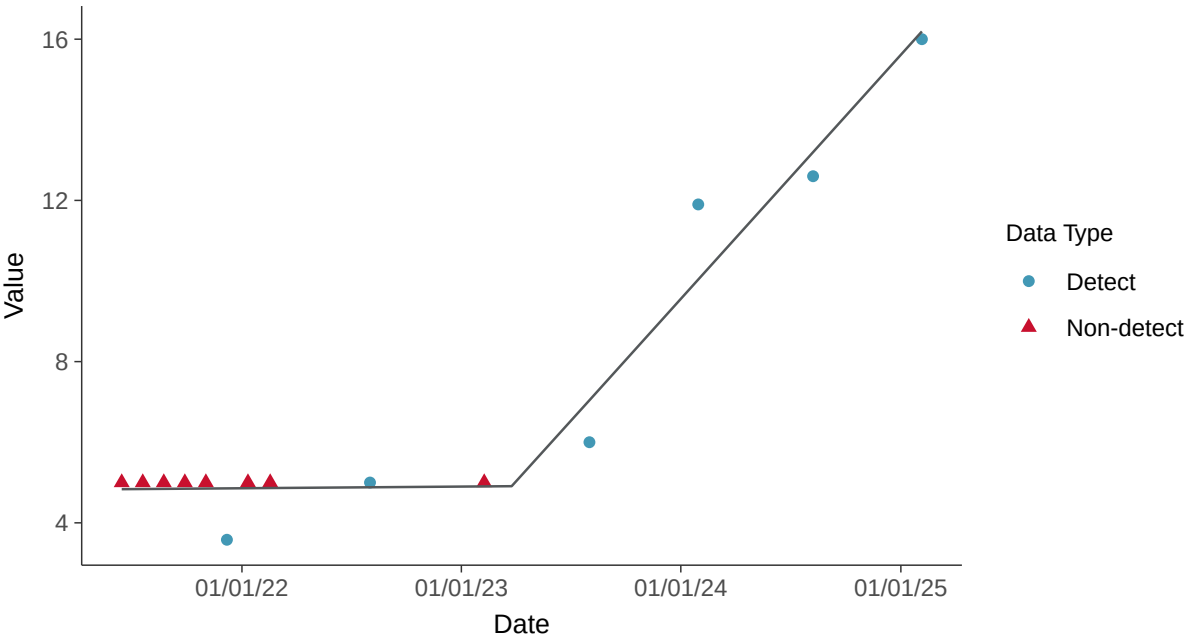
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate, MW-9 (mg/l)



Trend Regression: Piecewise Linear-Linear

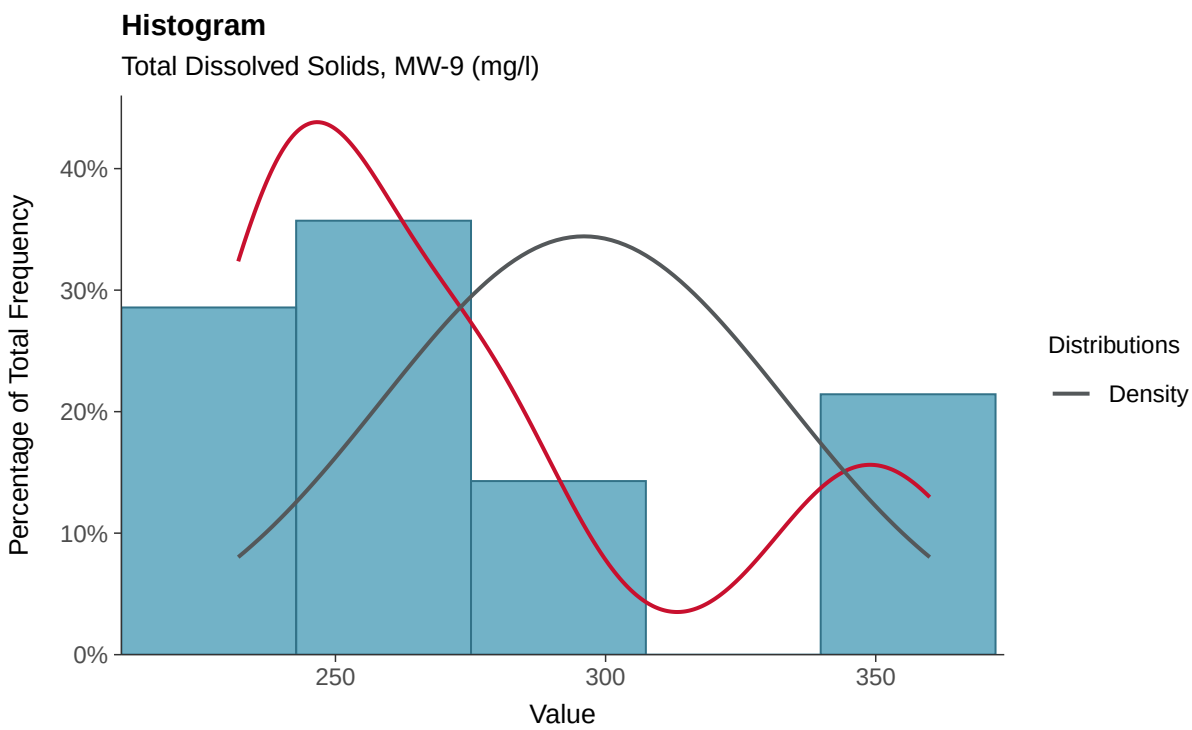
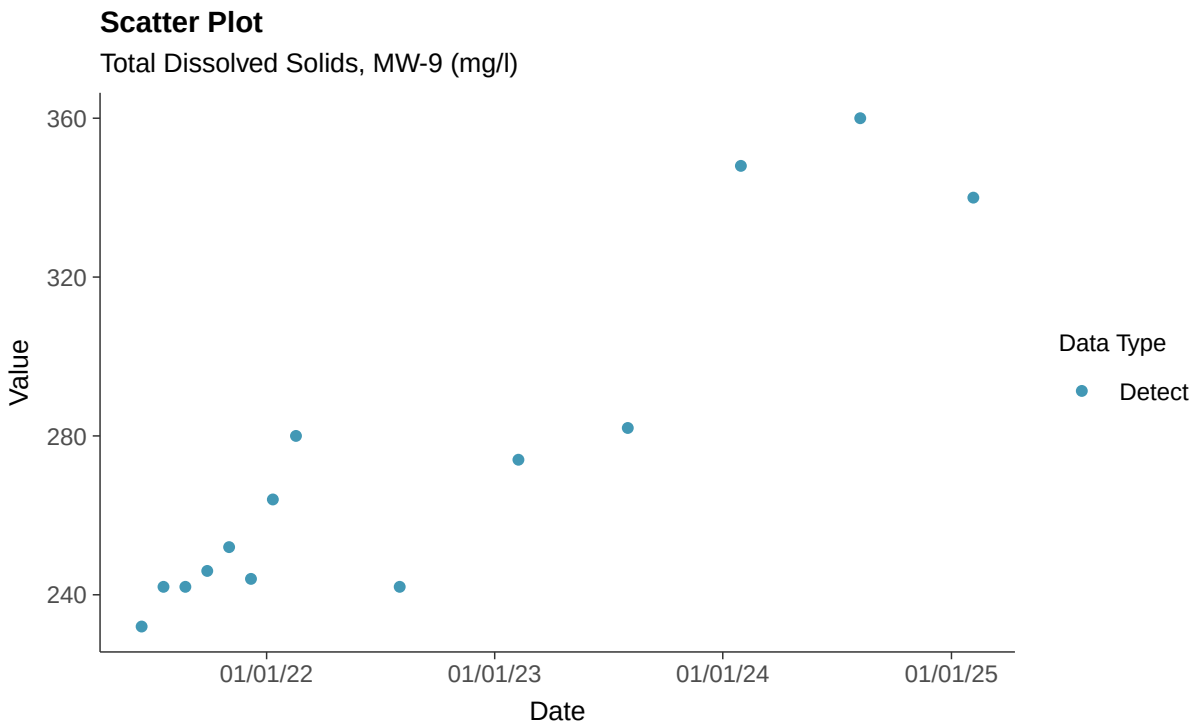
Sulfate, MW-9 (mg/l)

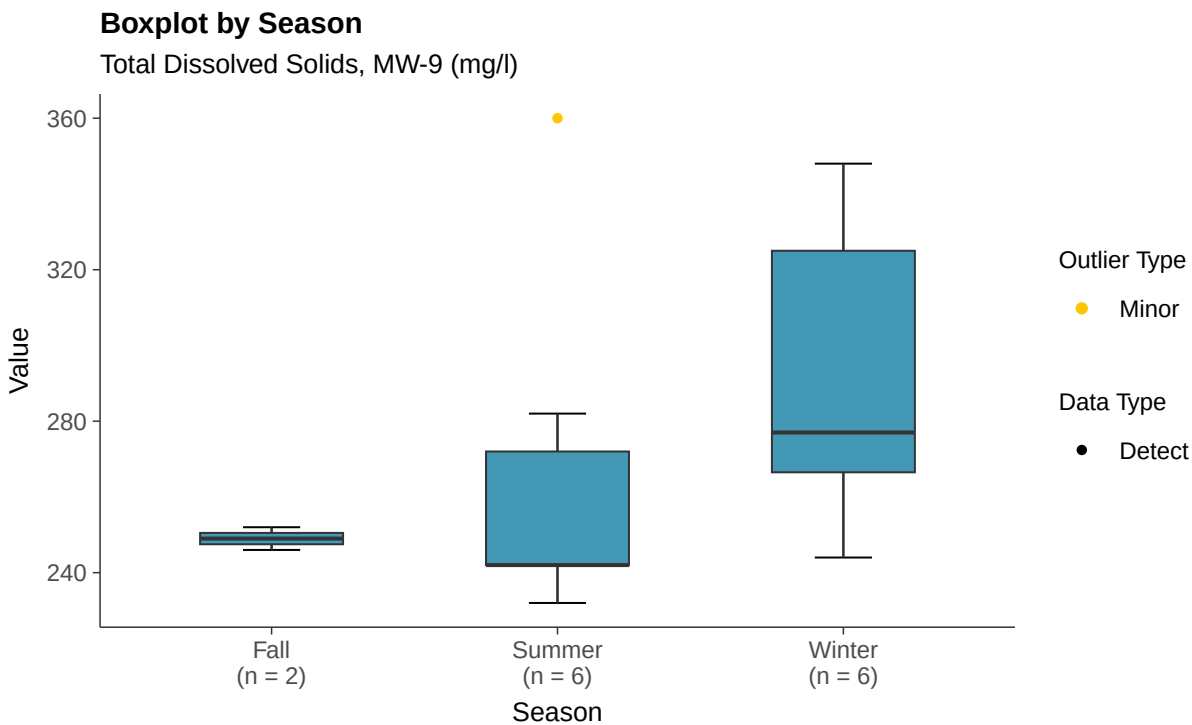
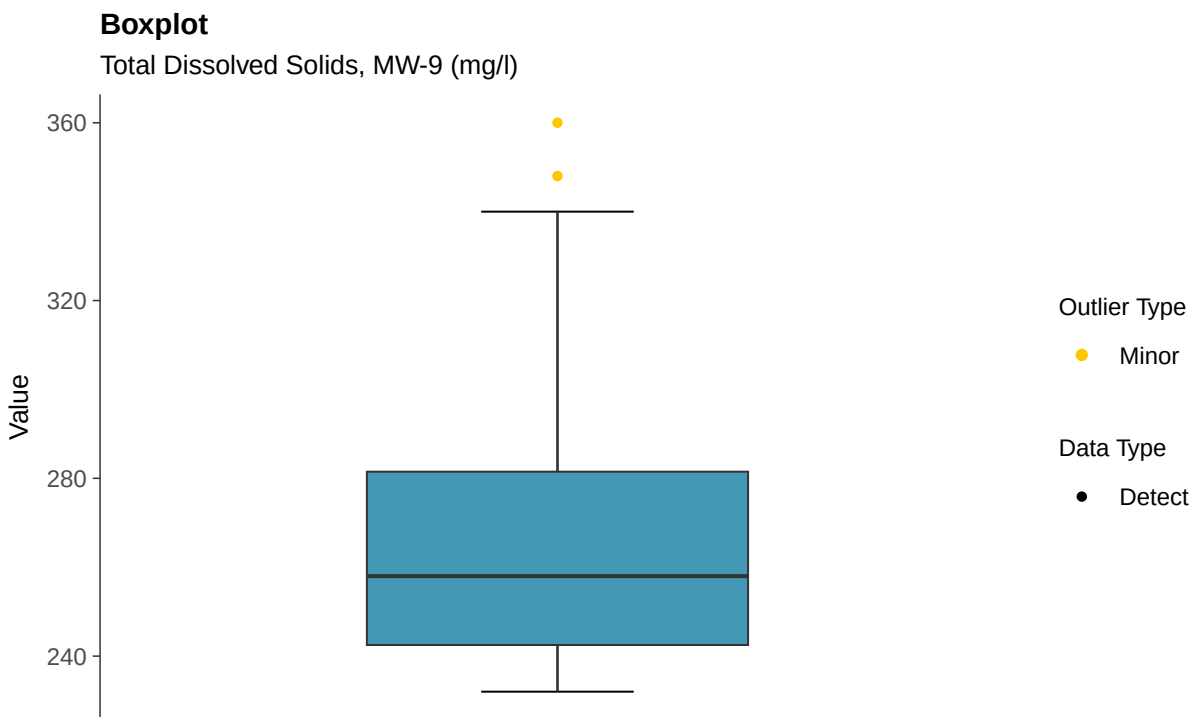


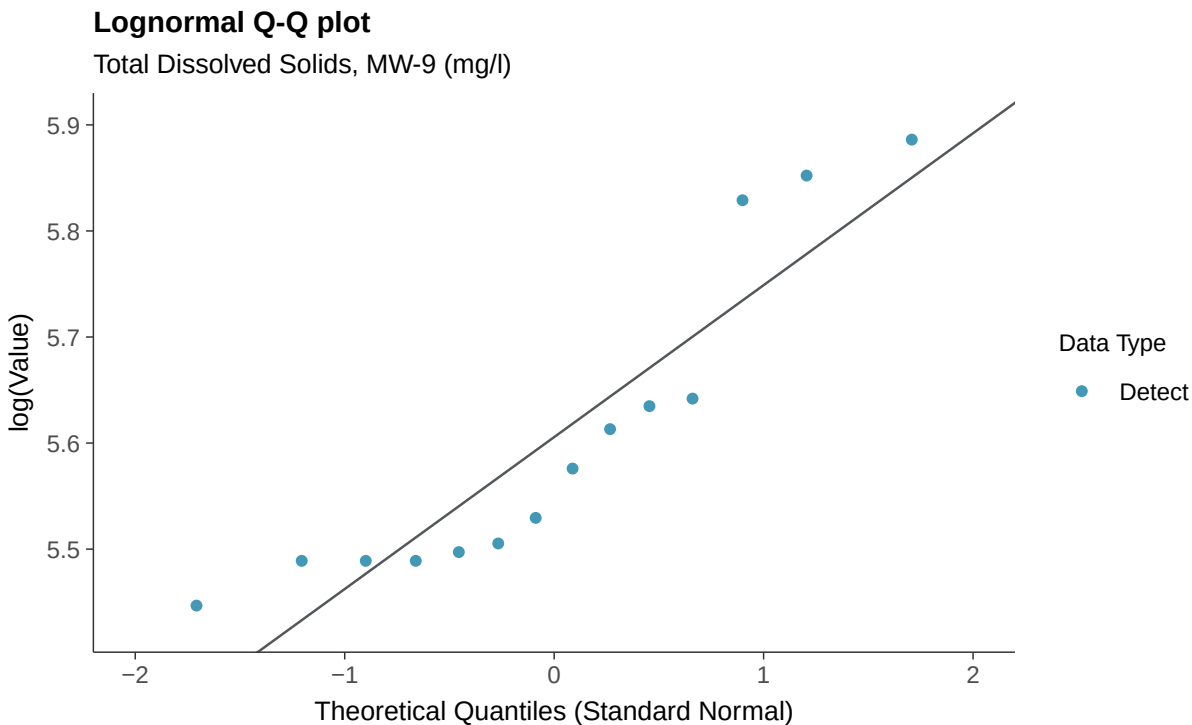
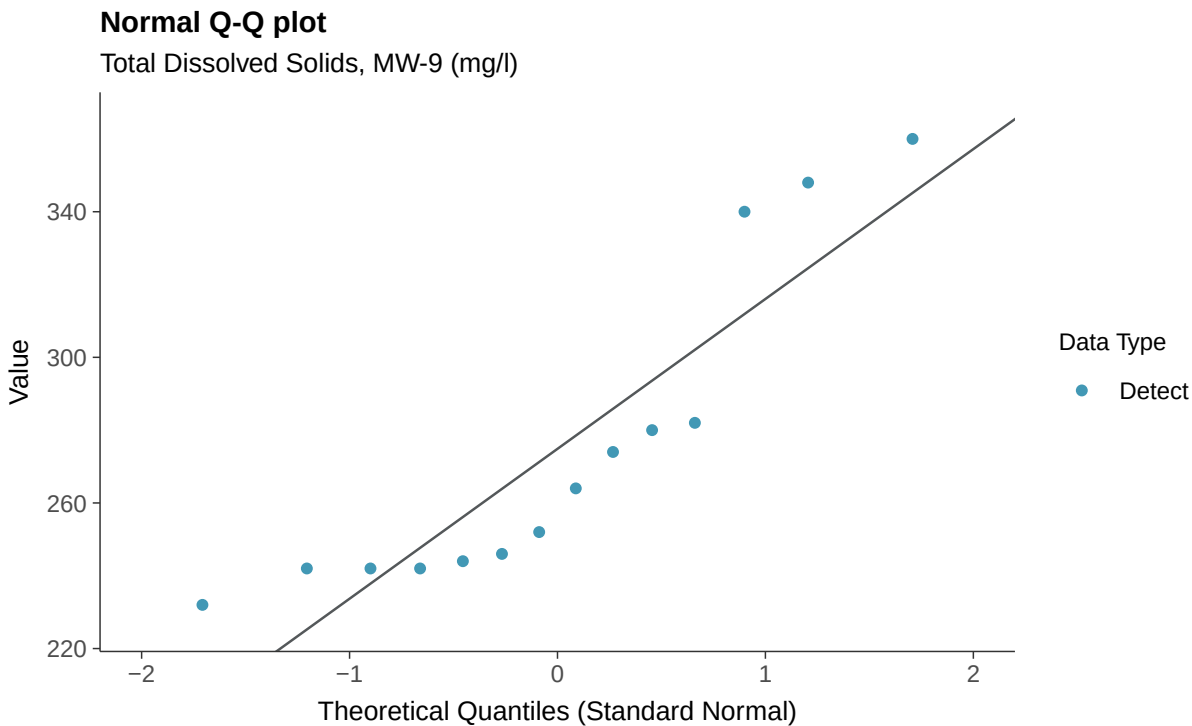


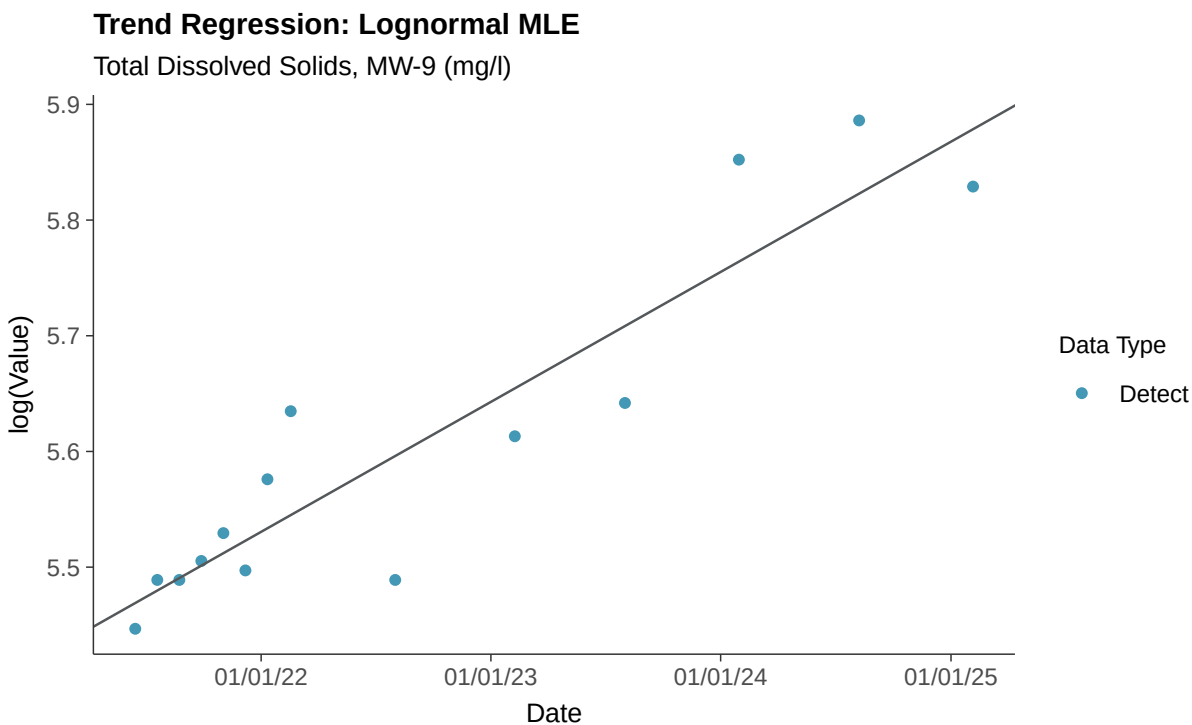
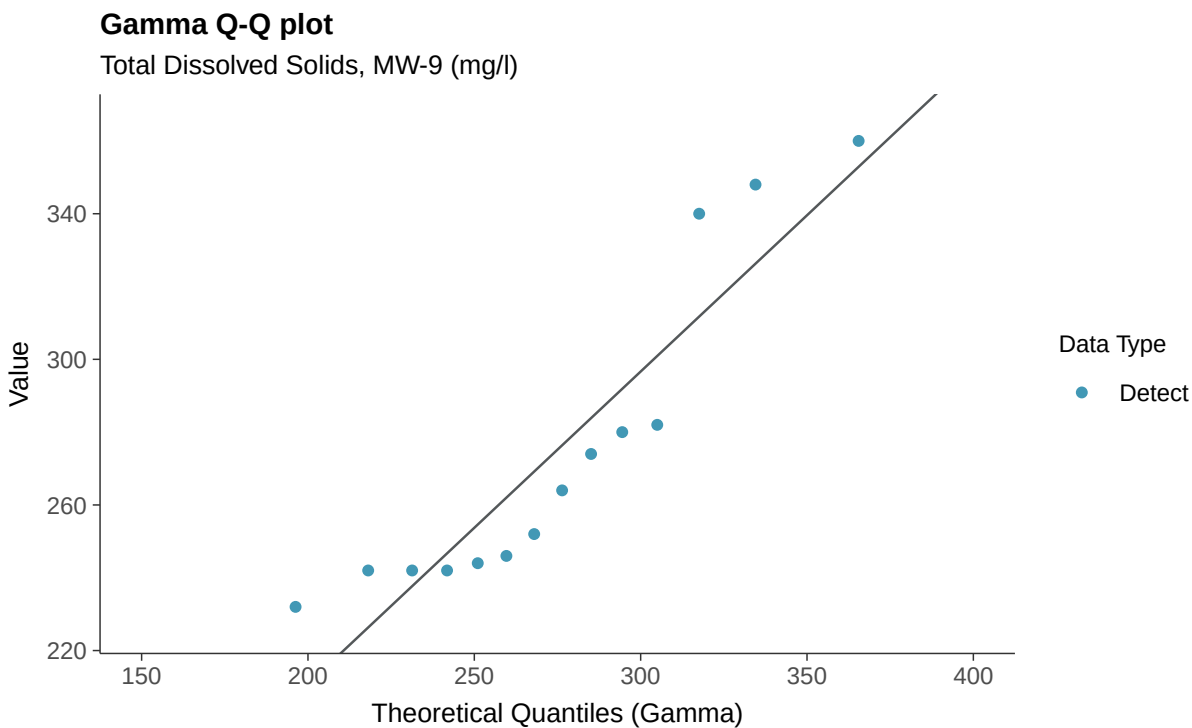
Appendix III: Total Dissolved Solids, MW-9

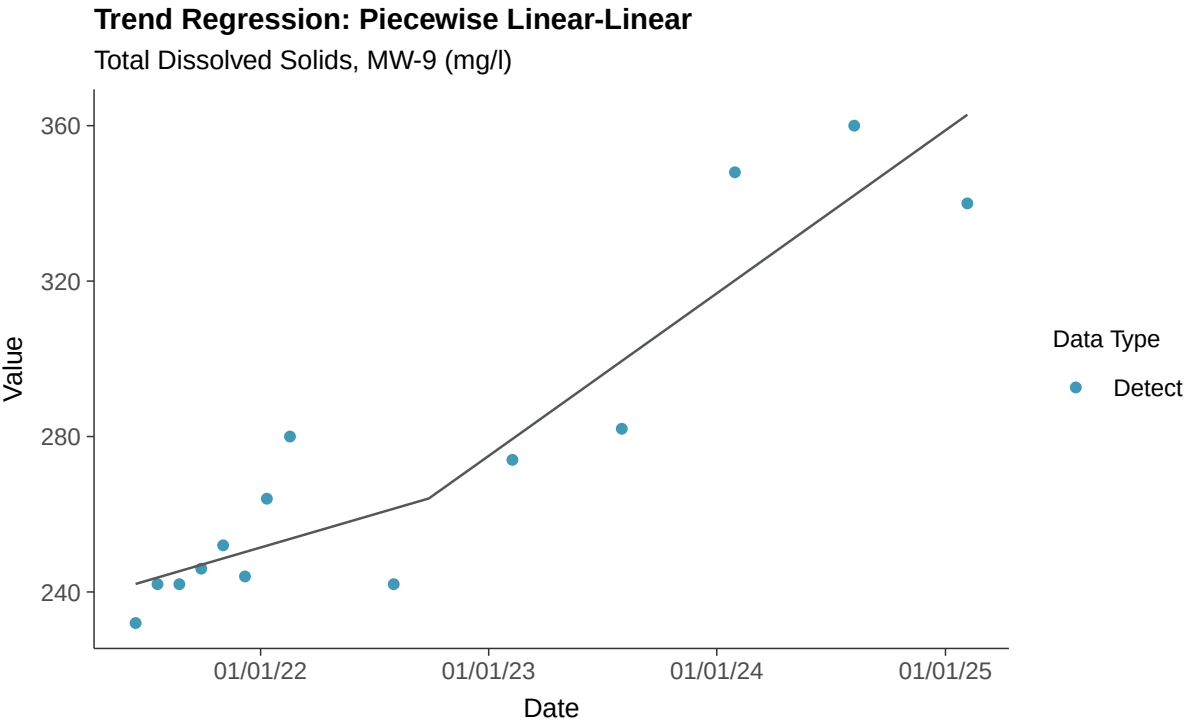
ID: 18_2_126

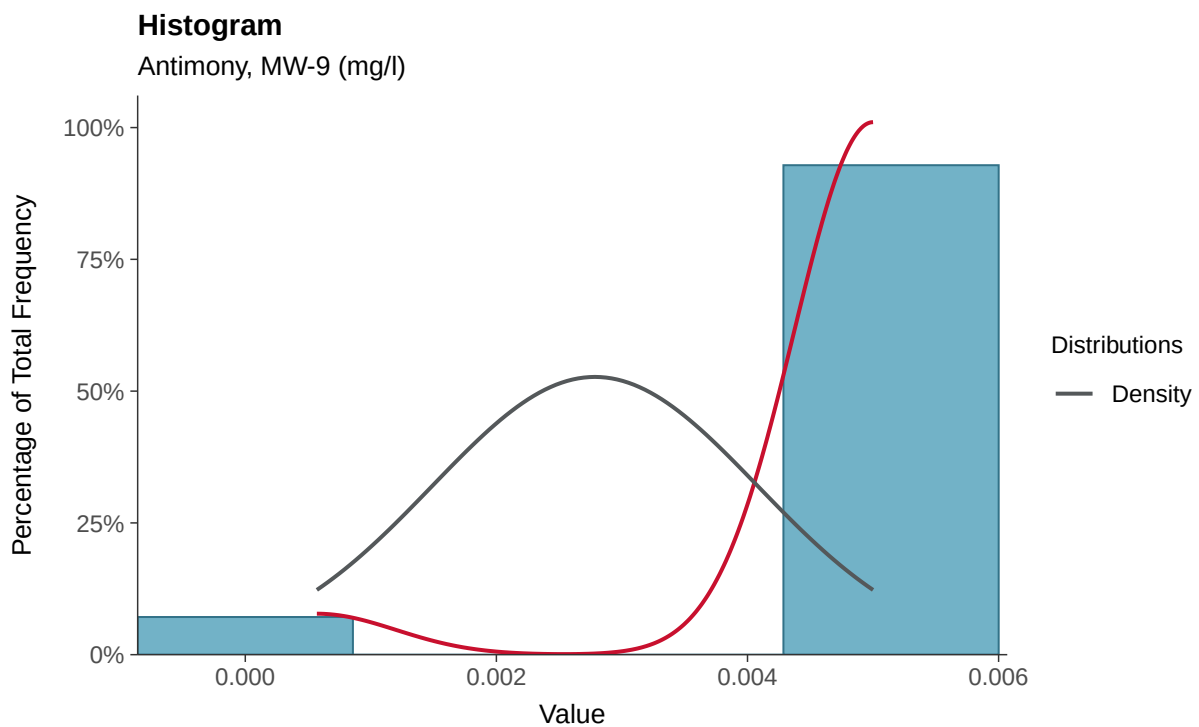


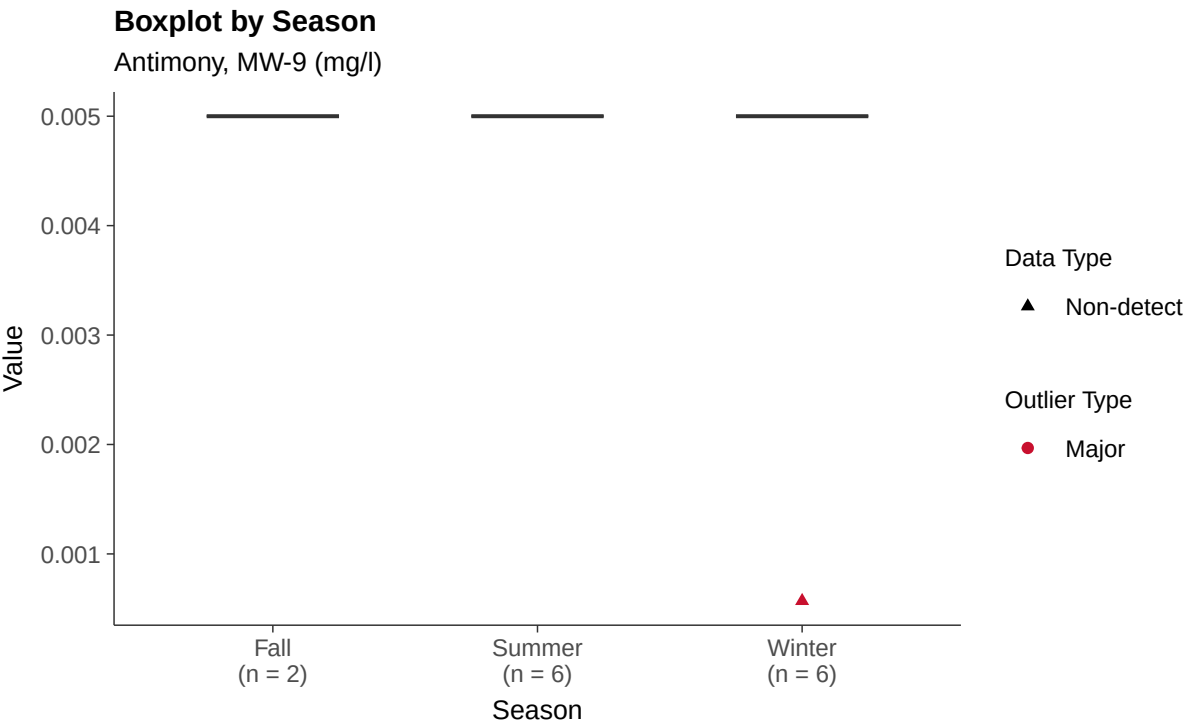
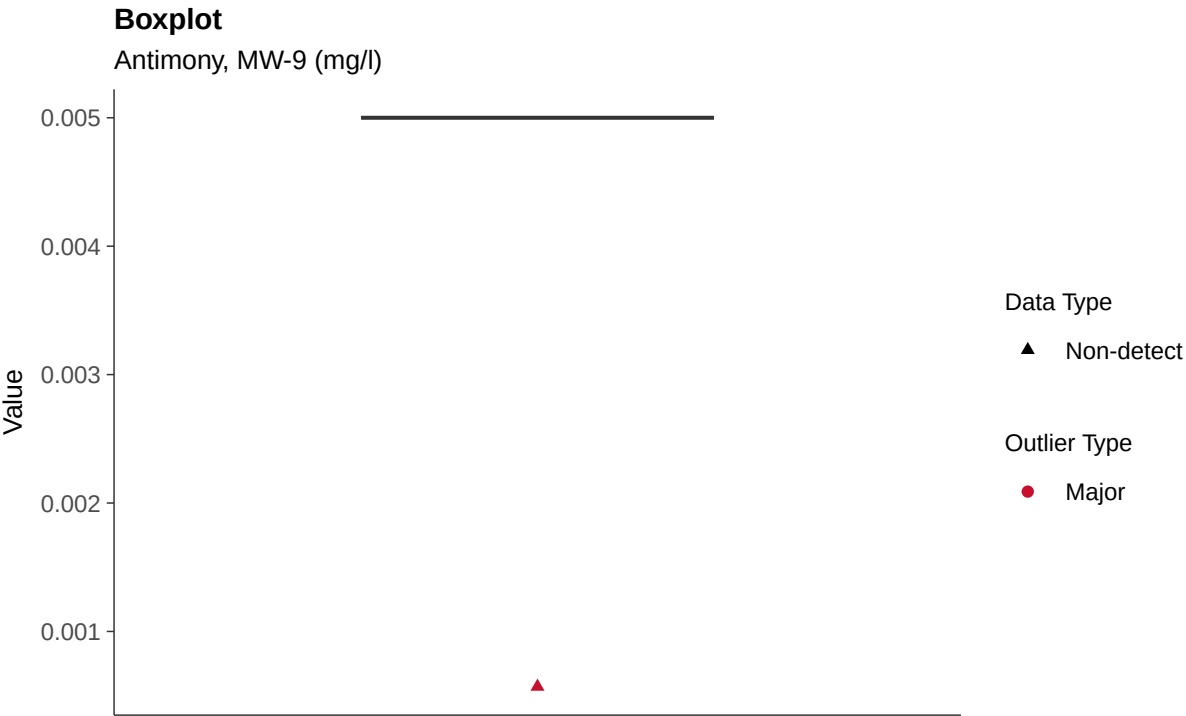








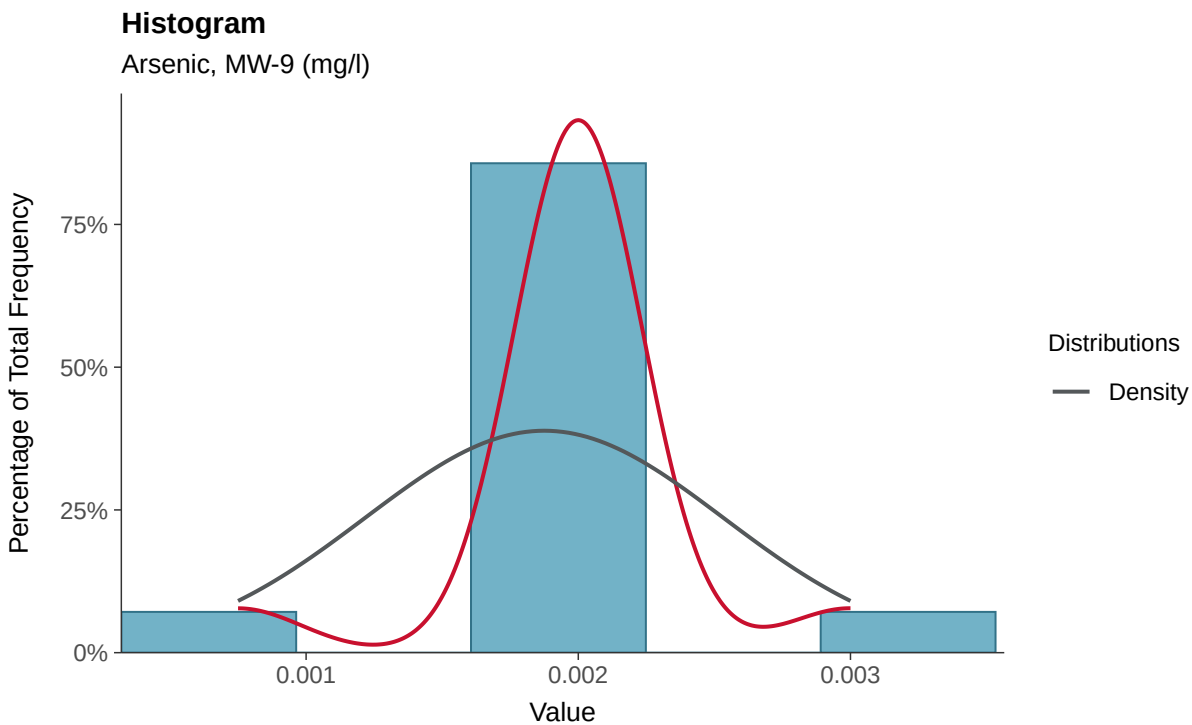
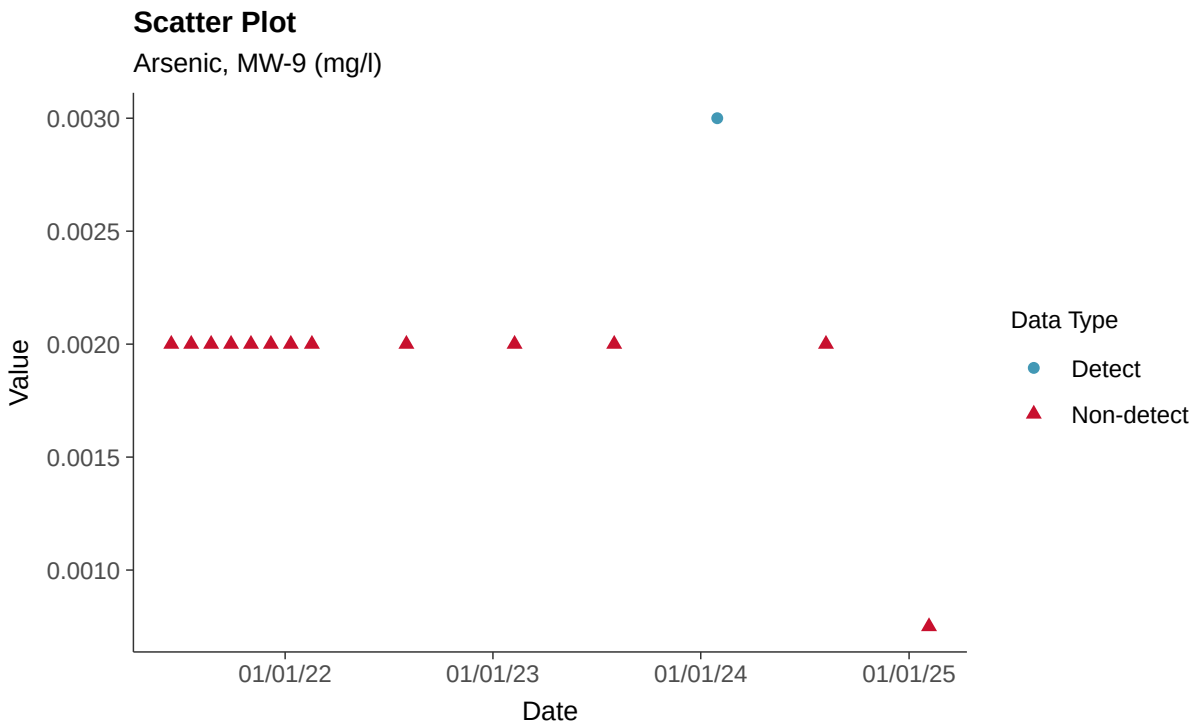


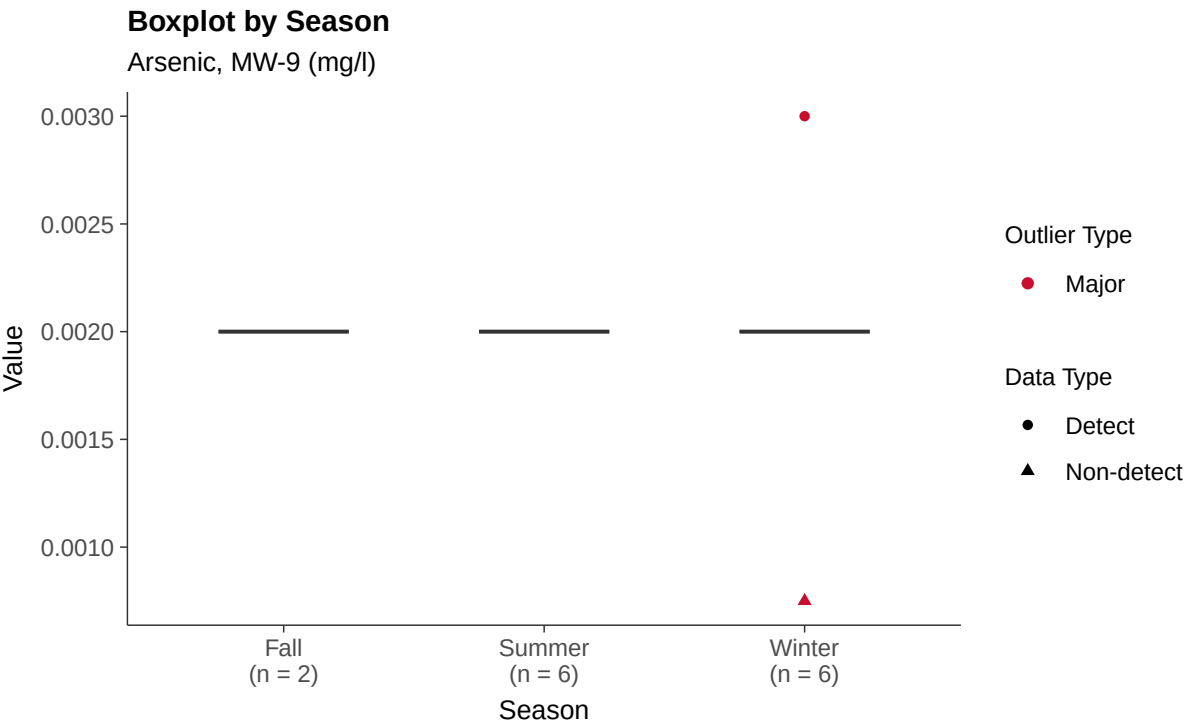
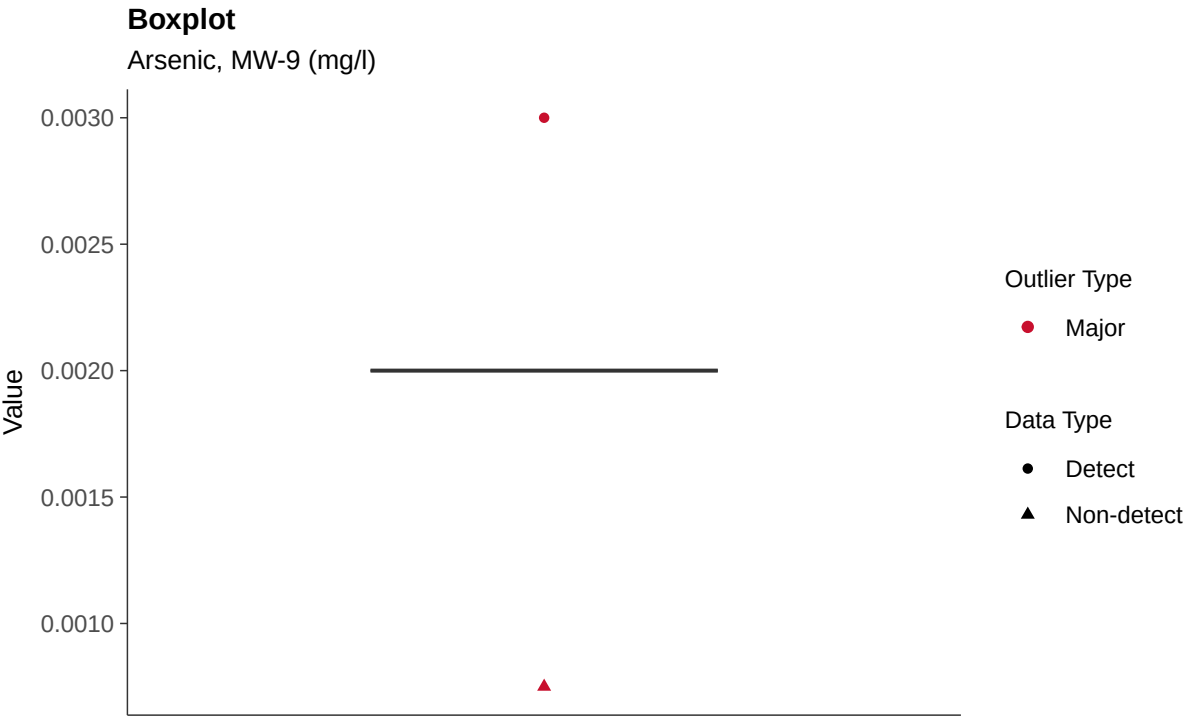


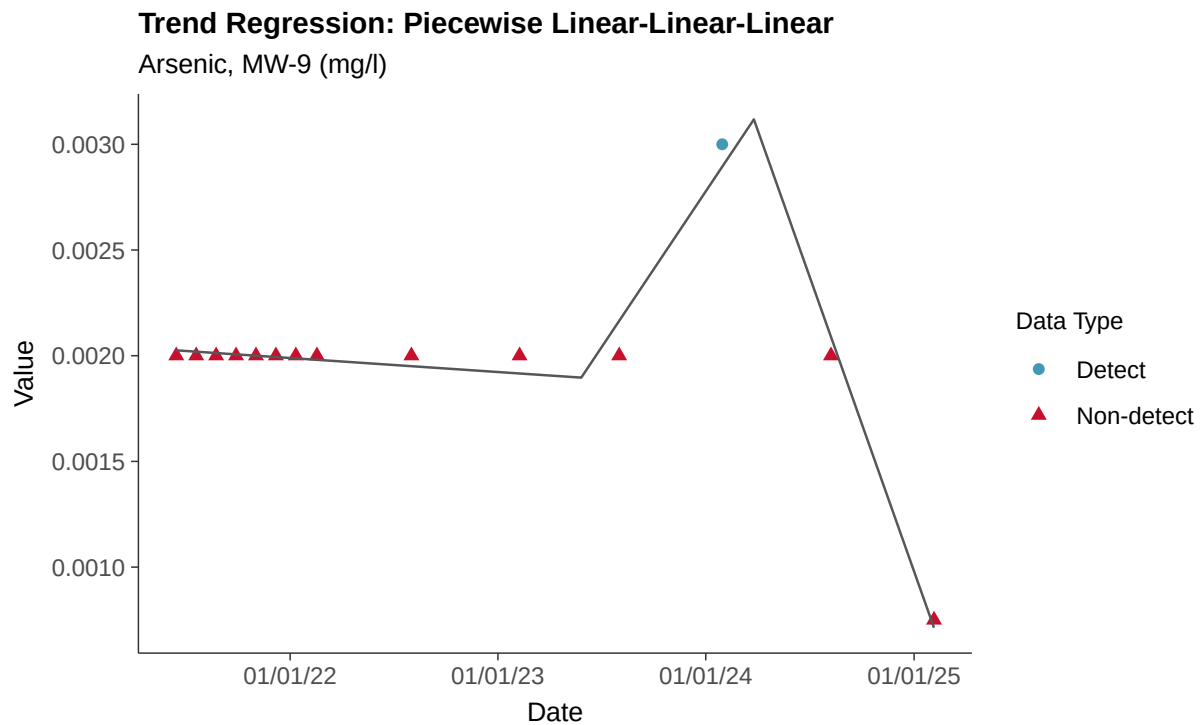
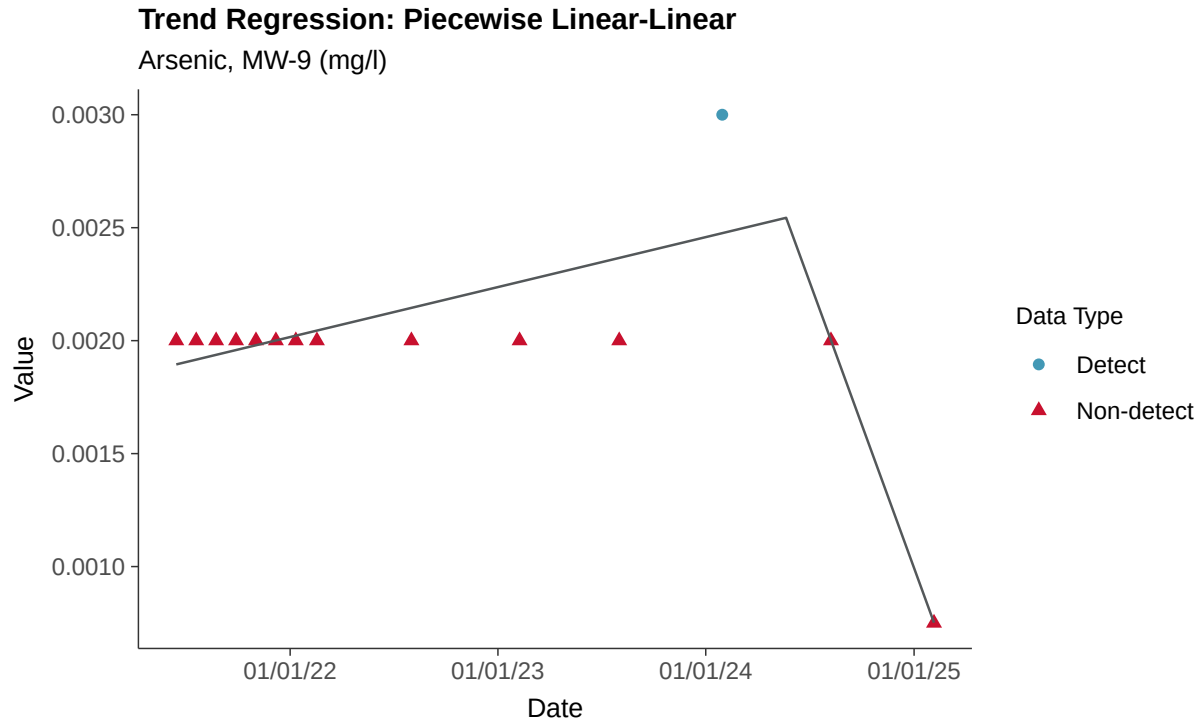


Appendix IV: Arsenic, MW-9

ID: 18_3_102



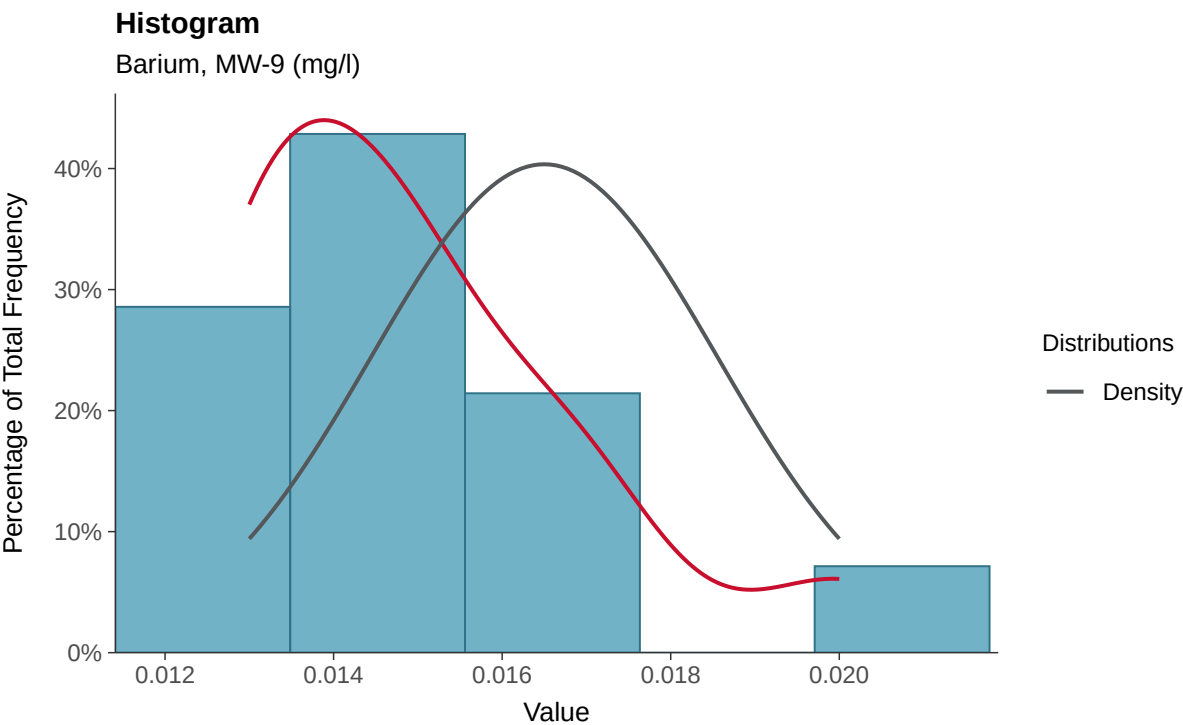
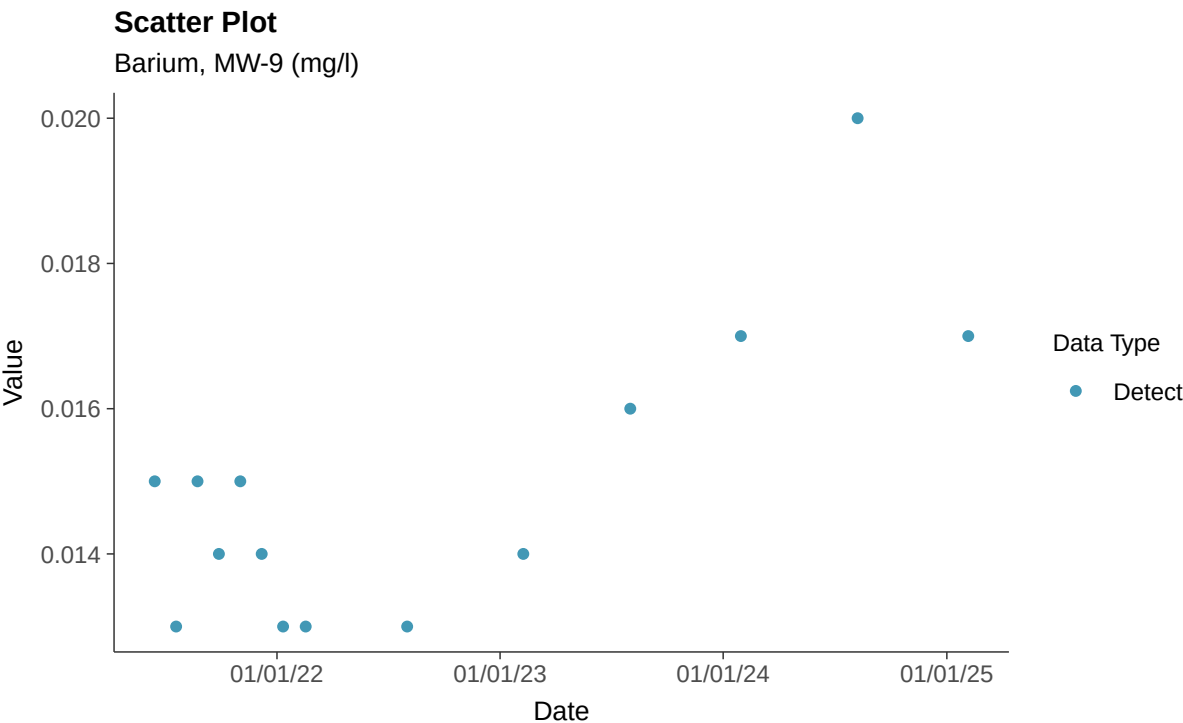


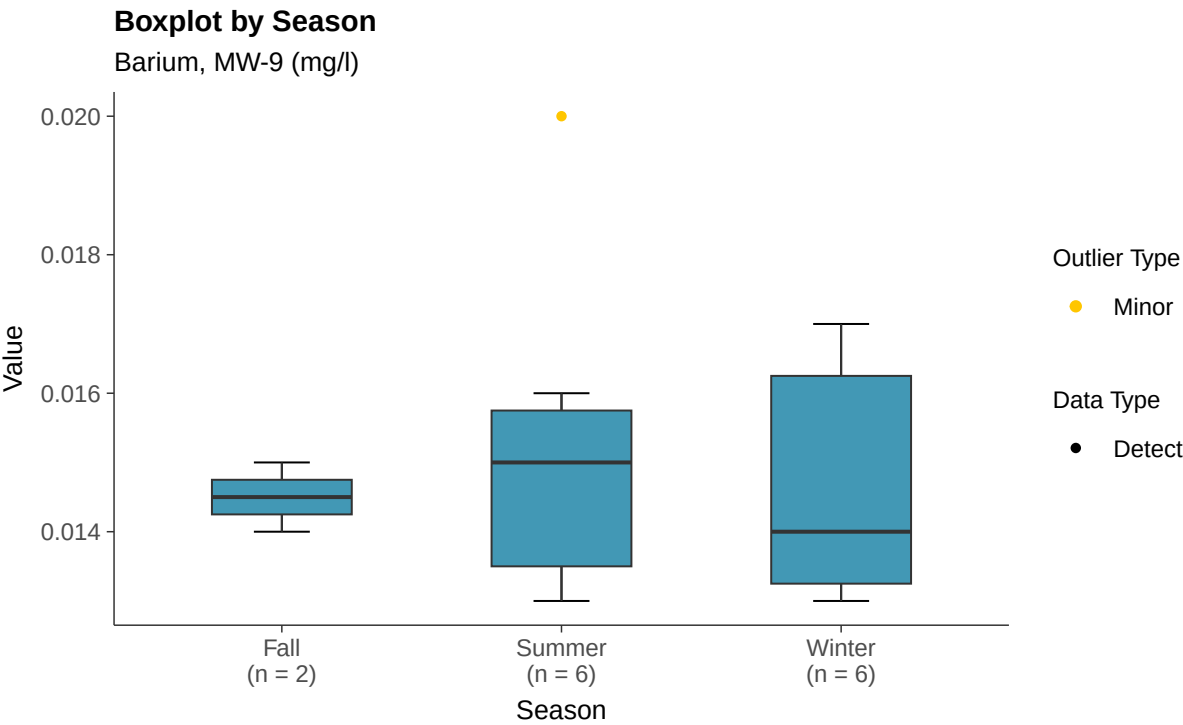
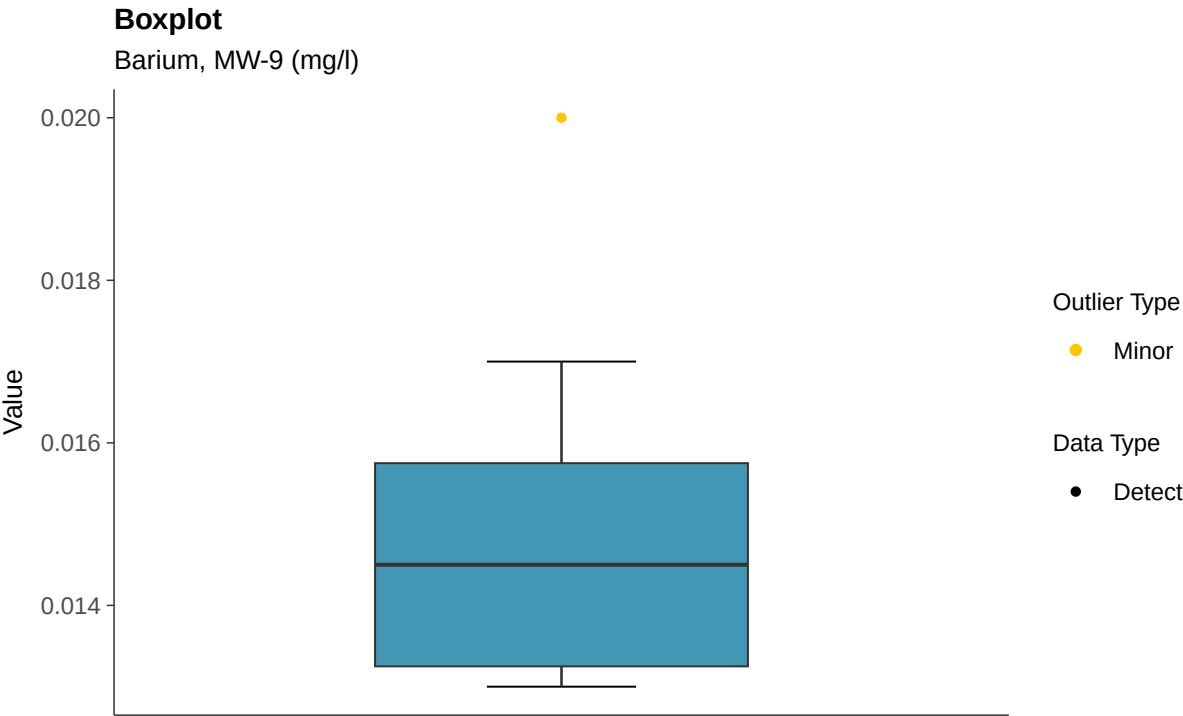


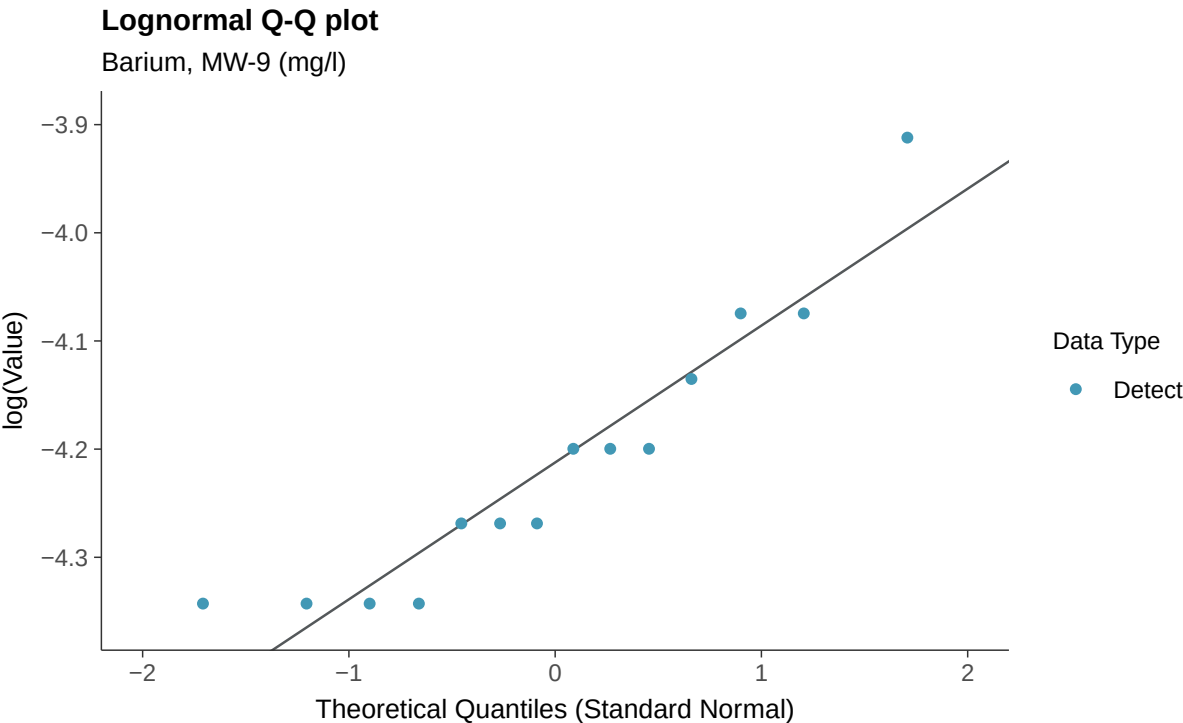
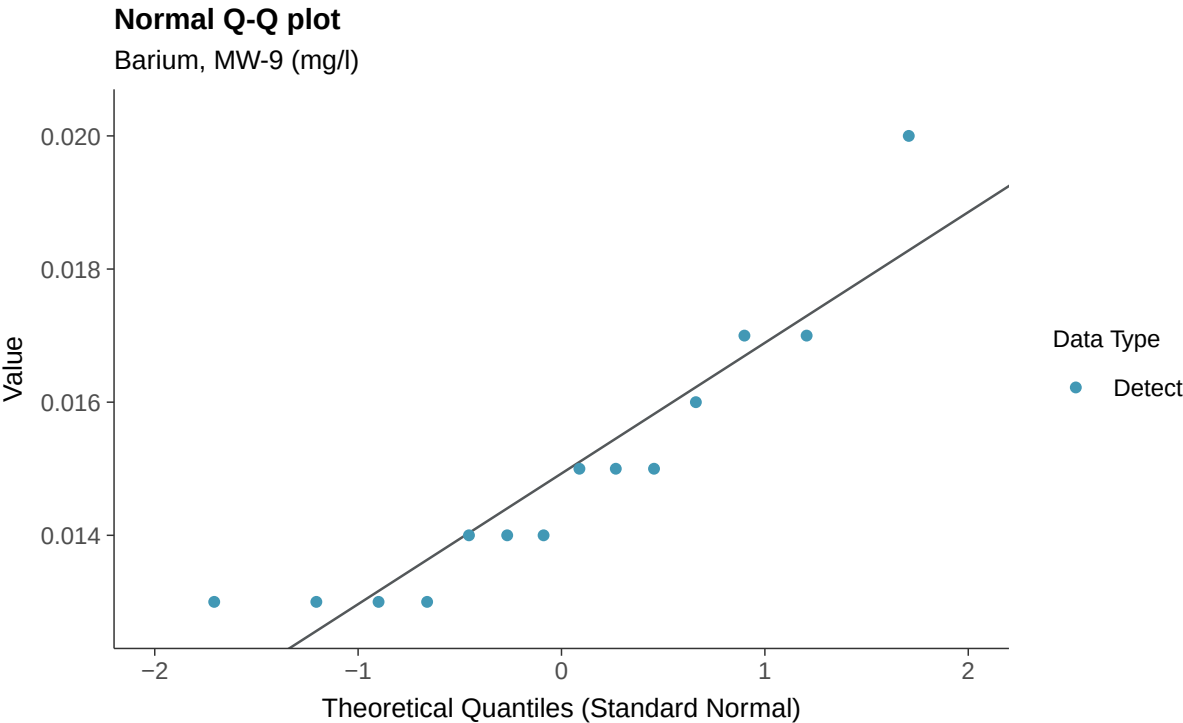


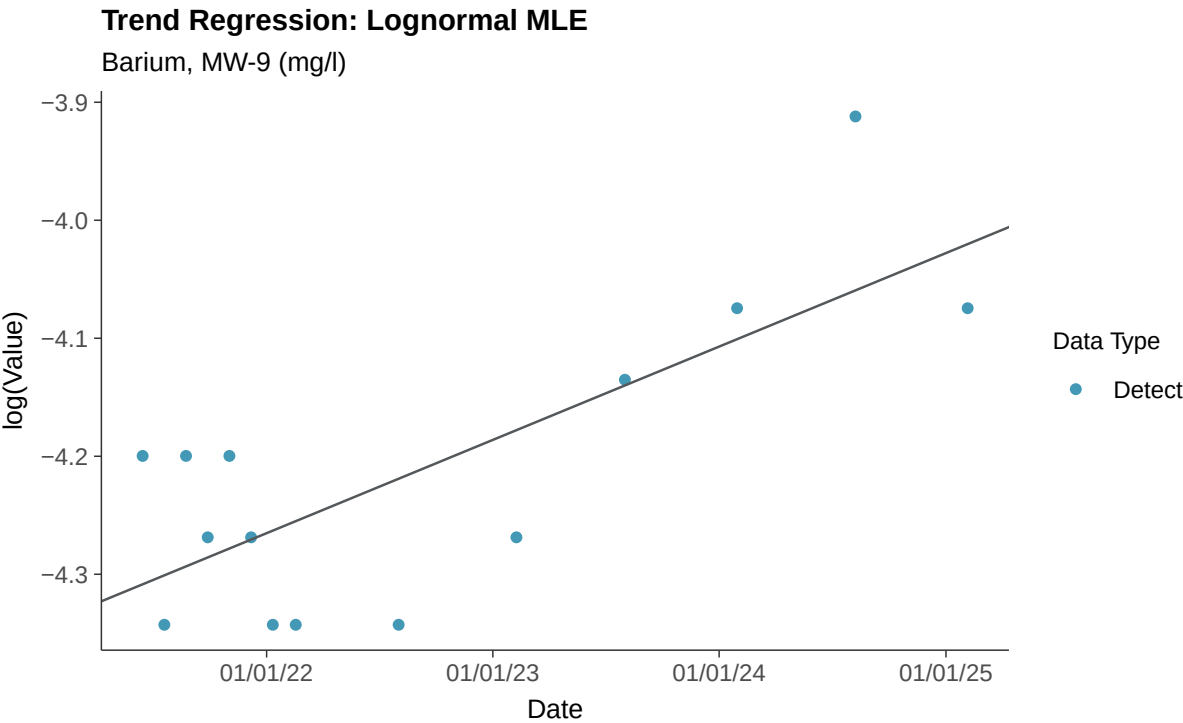
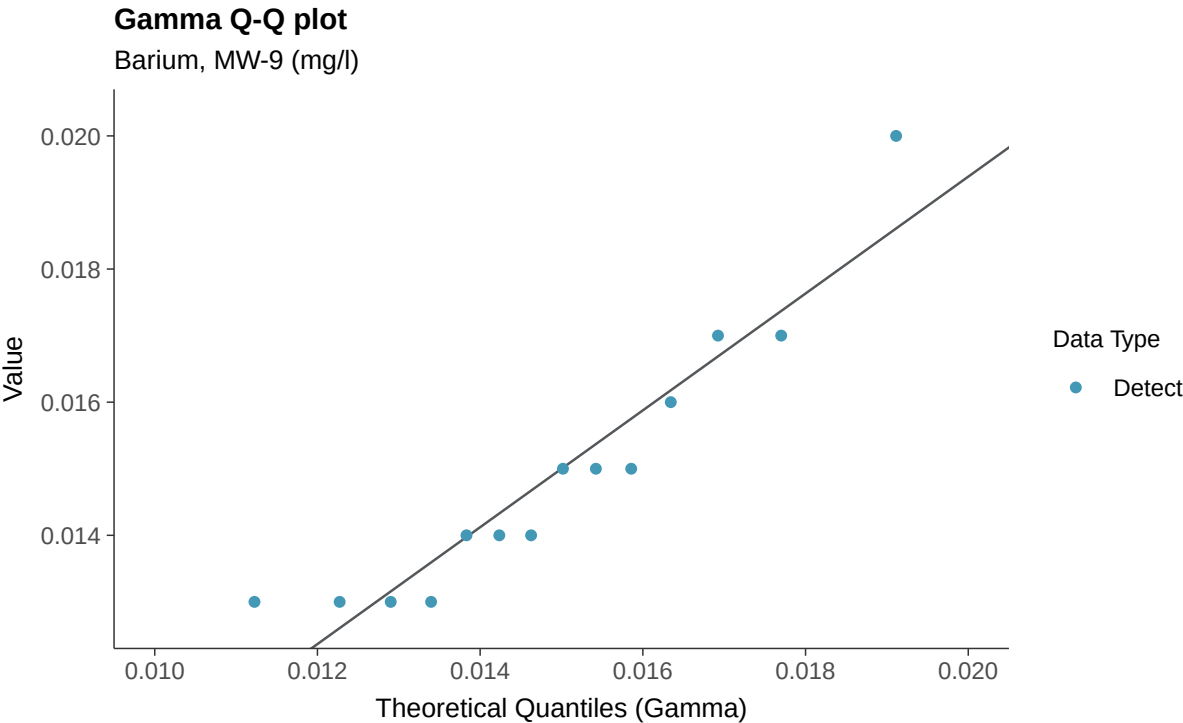
Appendix IV: Barium, MW-9

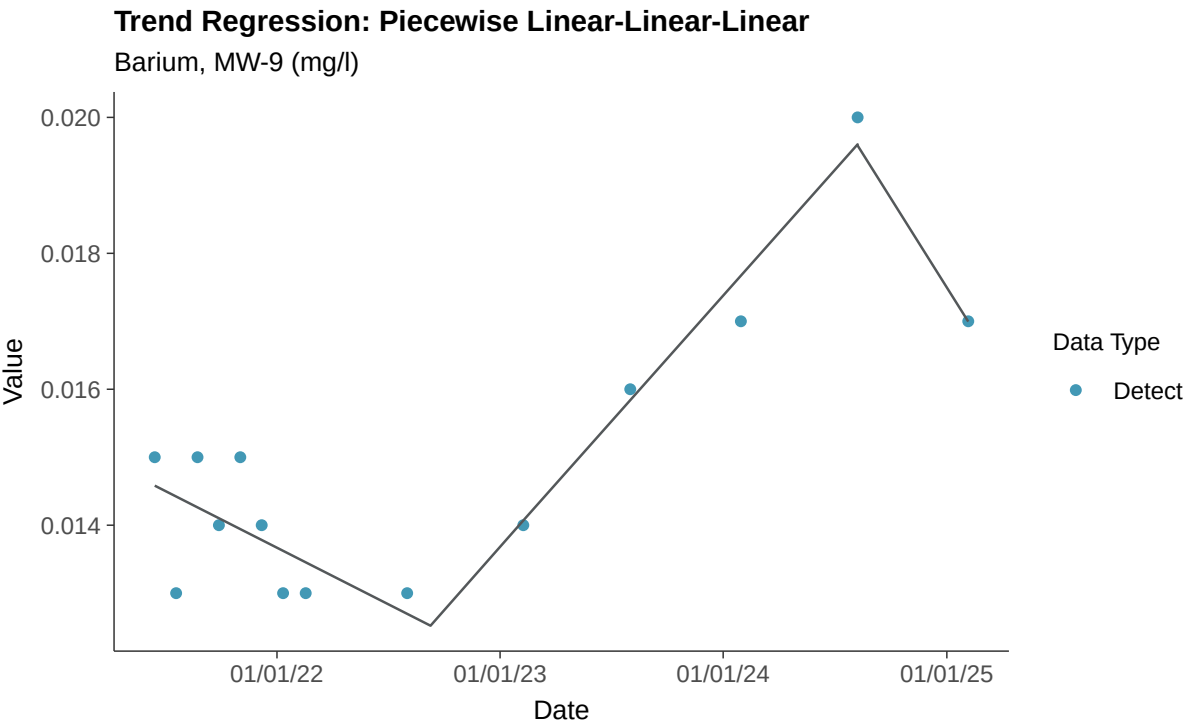
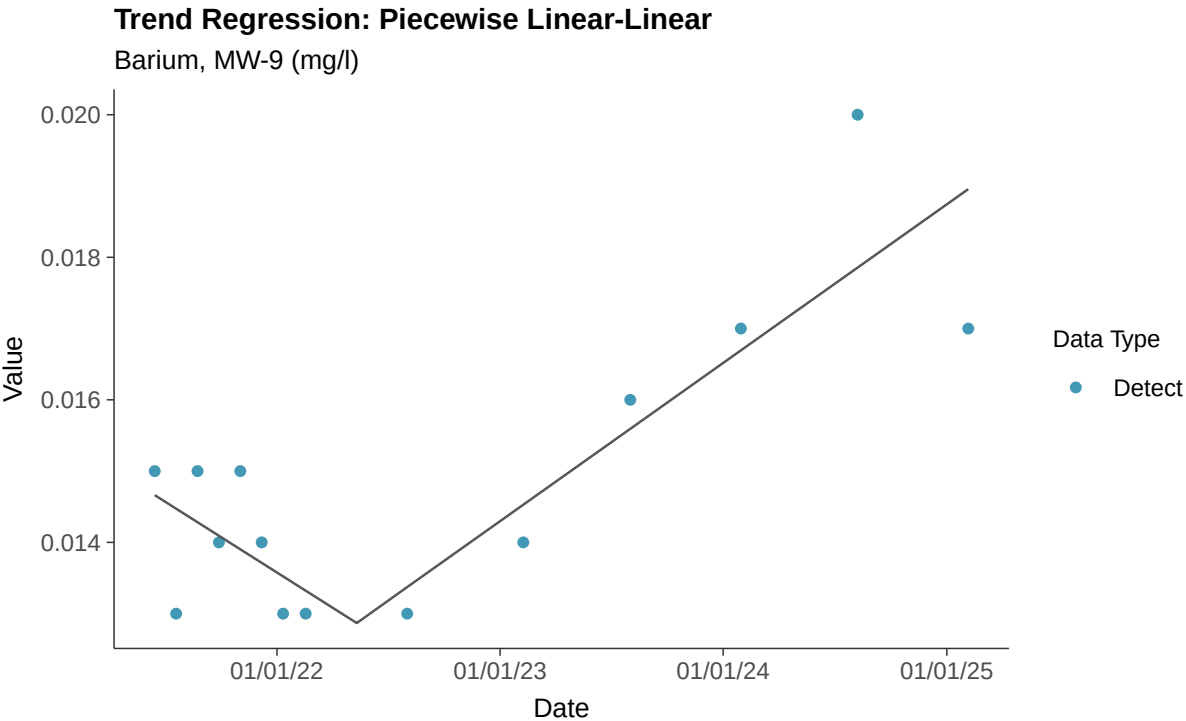
ID: 18_3_103







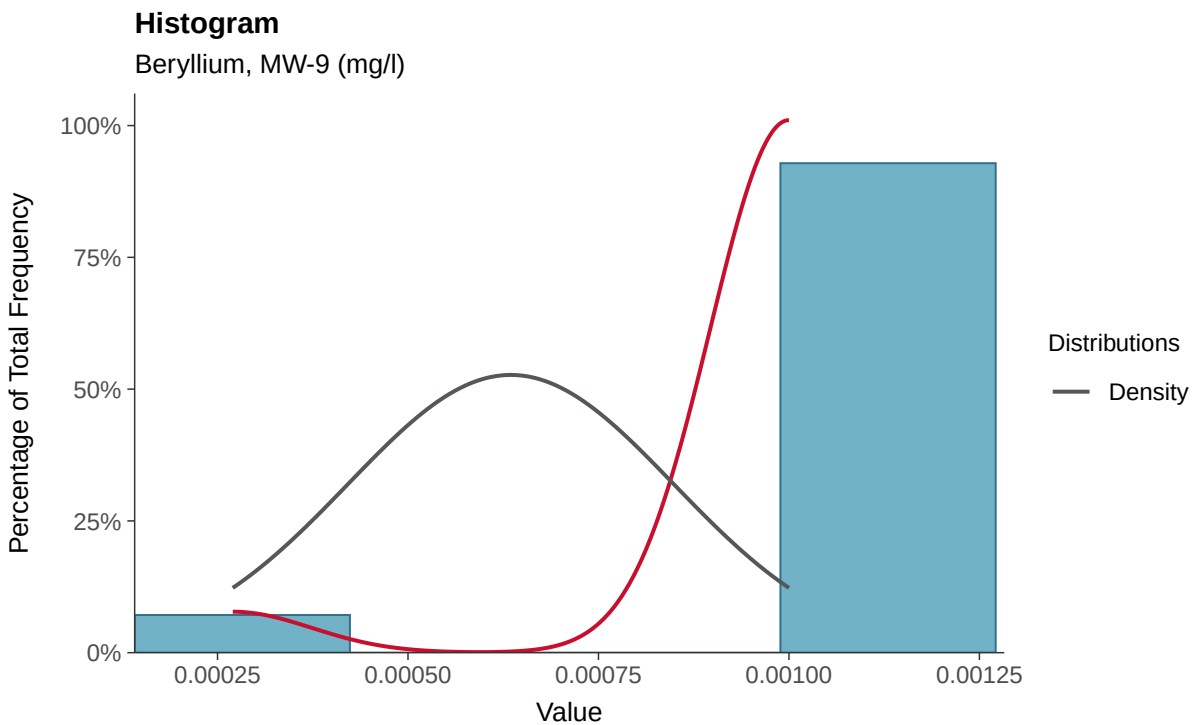
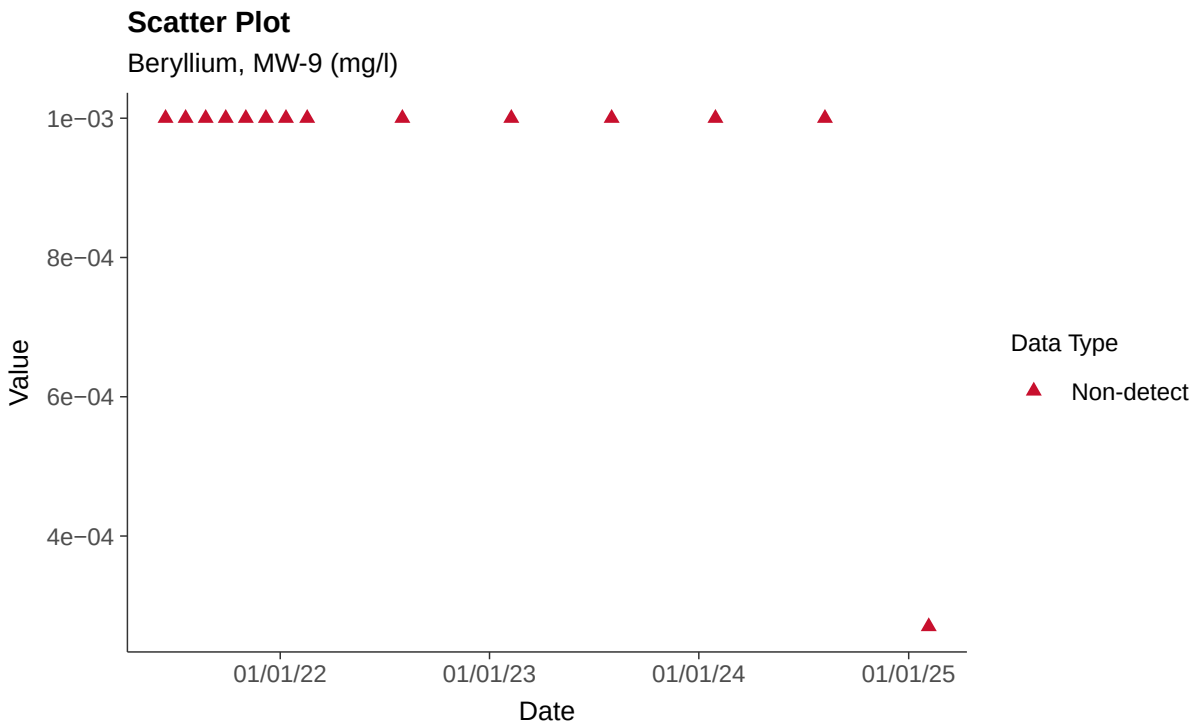


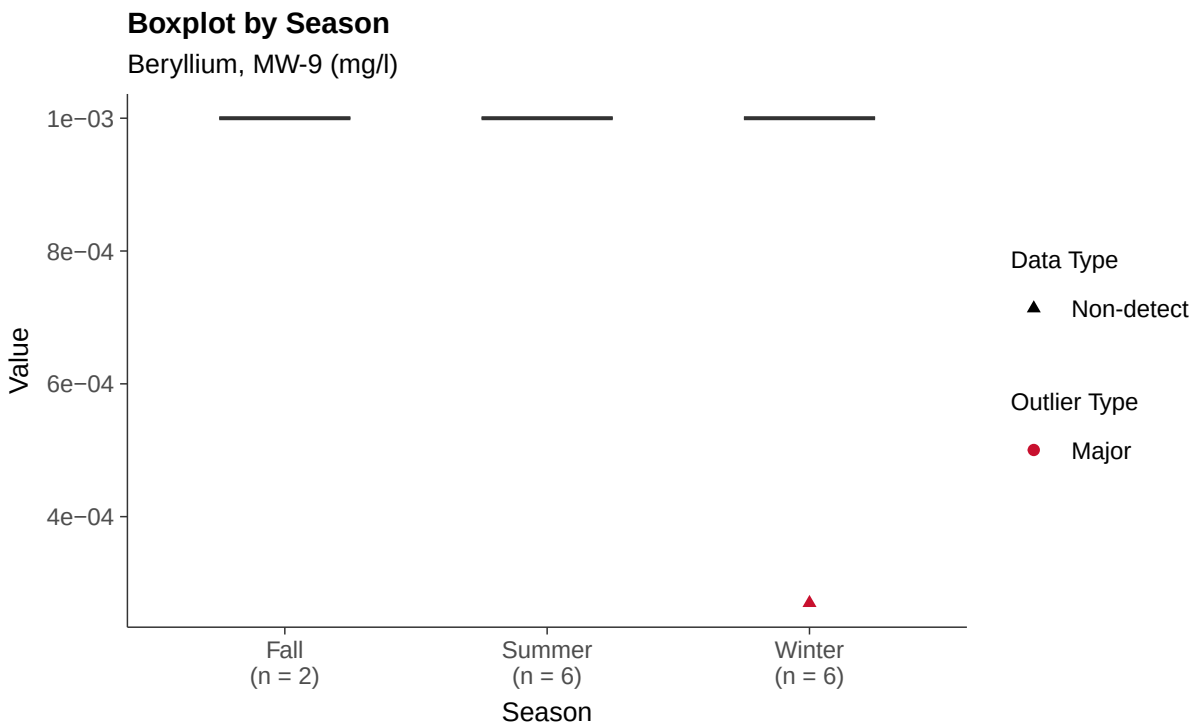
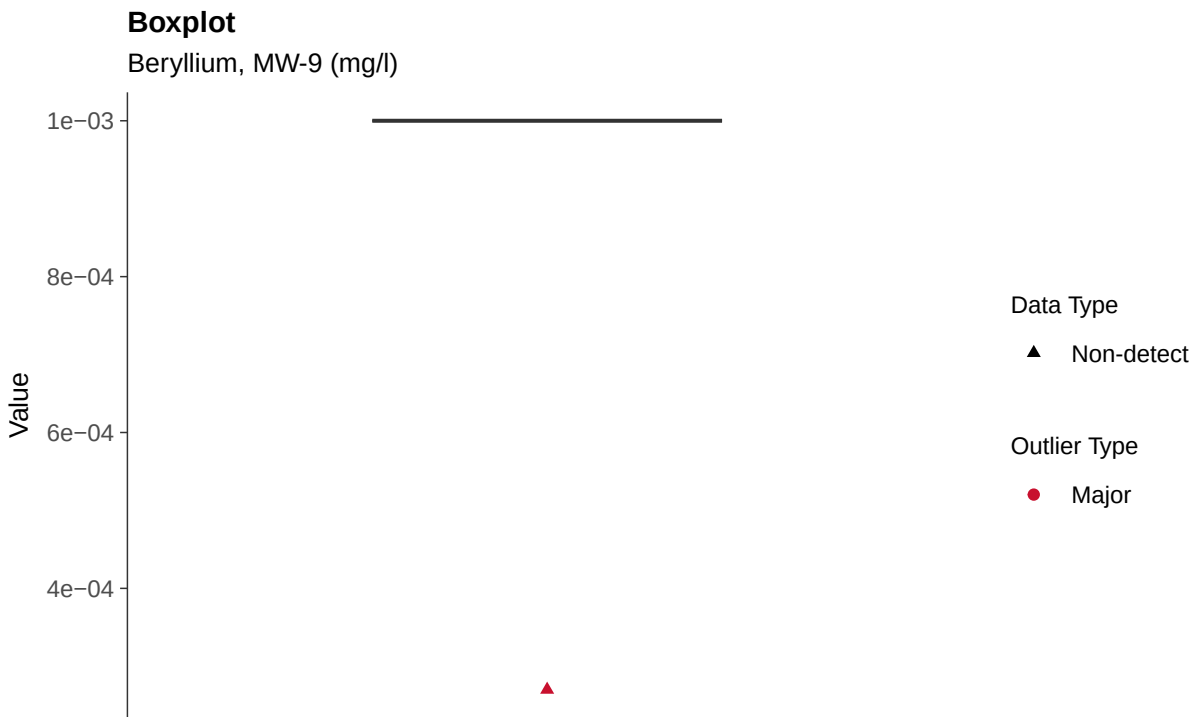




Appendix IV: Beryllium, MW-9

ID: 18_3_104

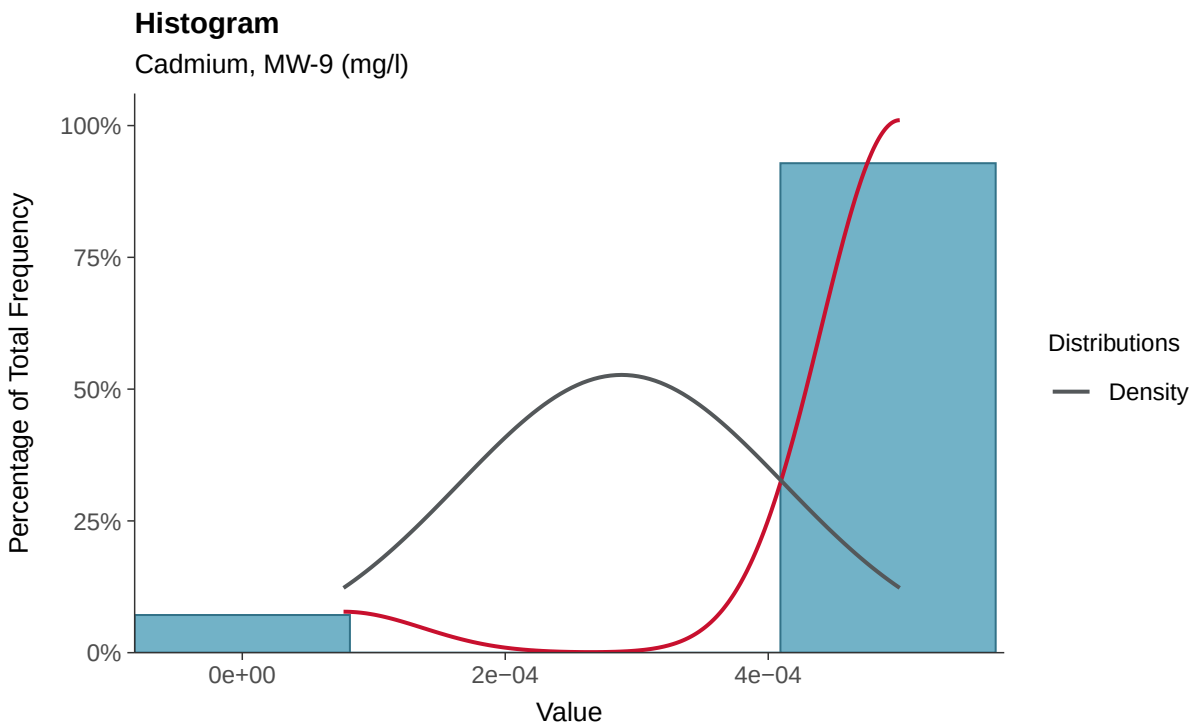
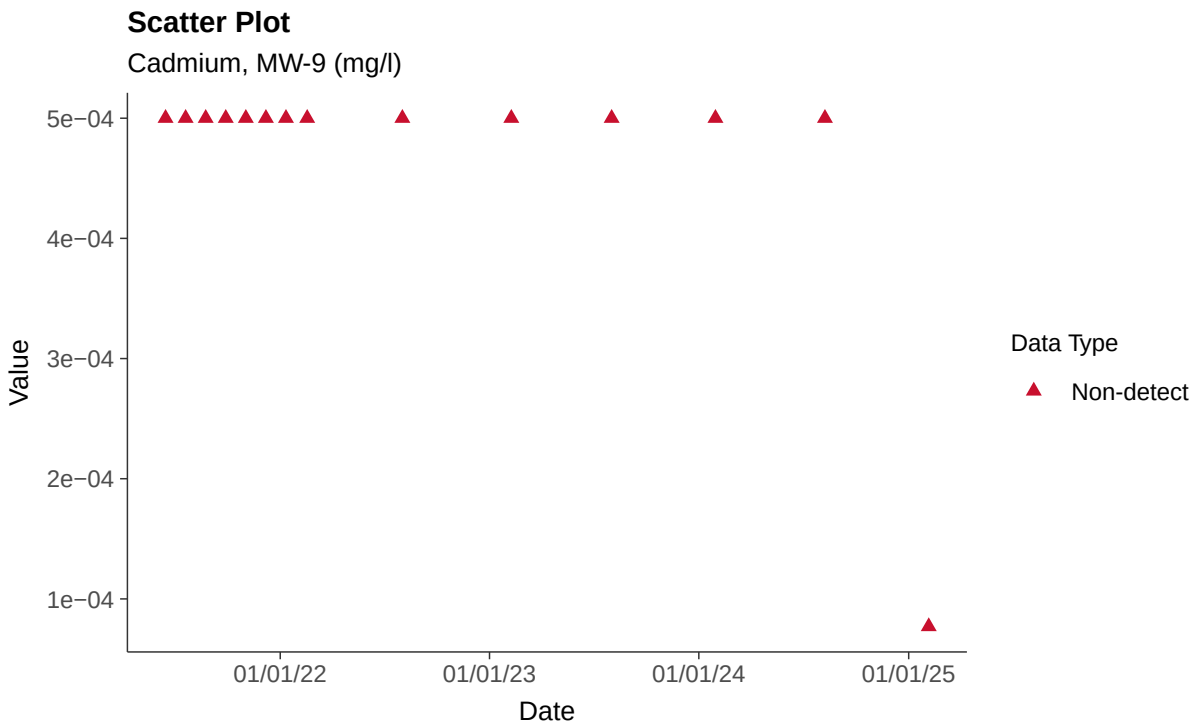


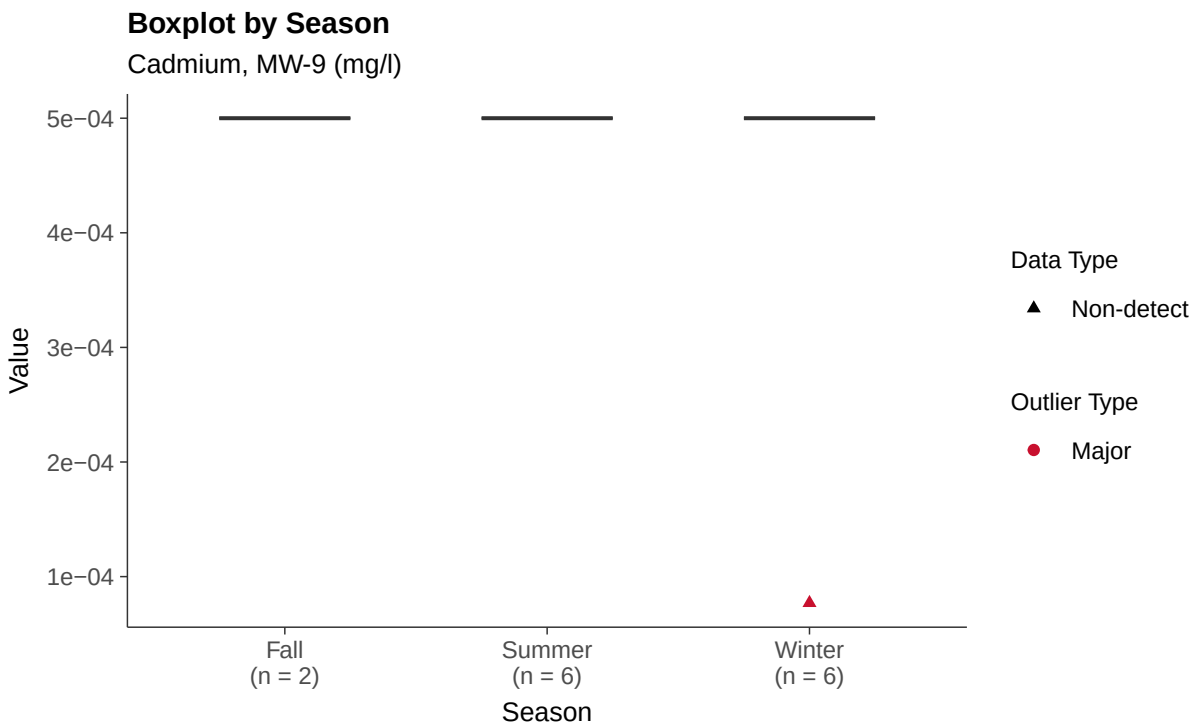
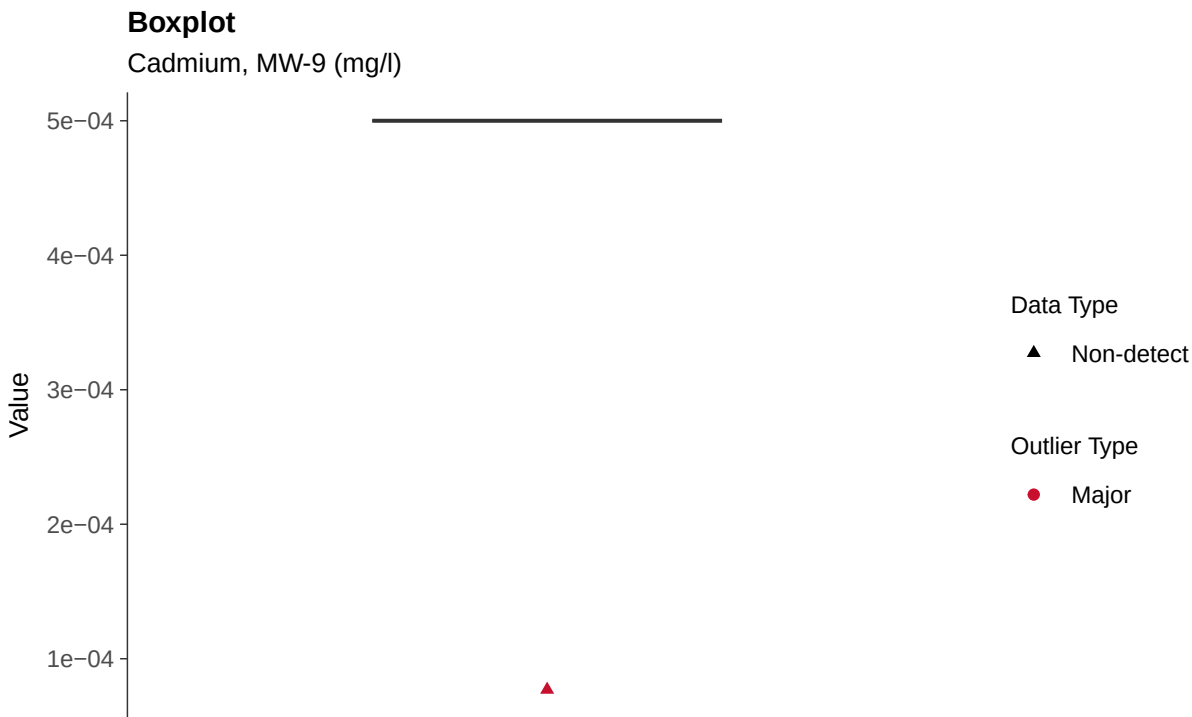




Appendix IV: Cadmium, MW-9

ID: 18_3_106

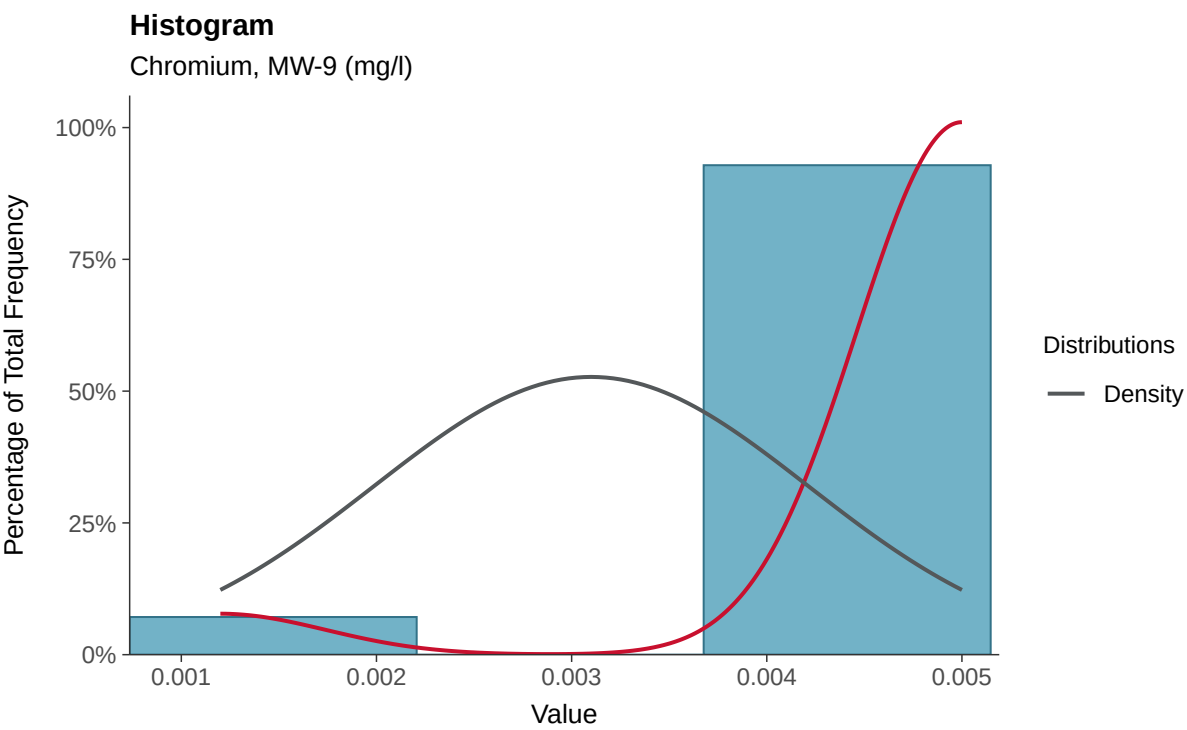
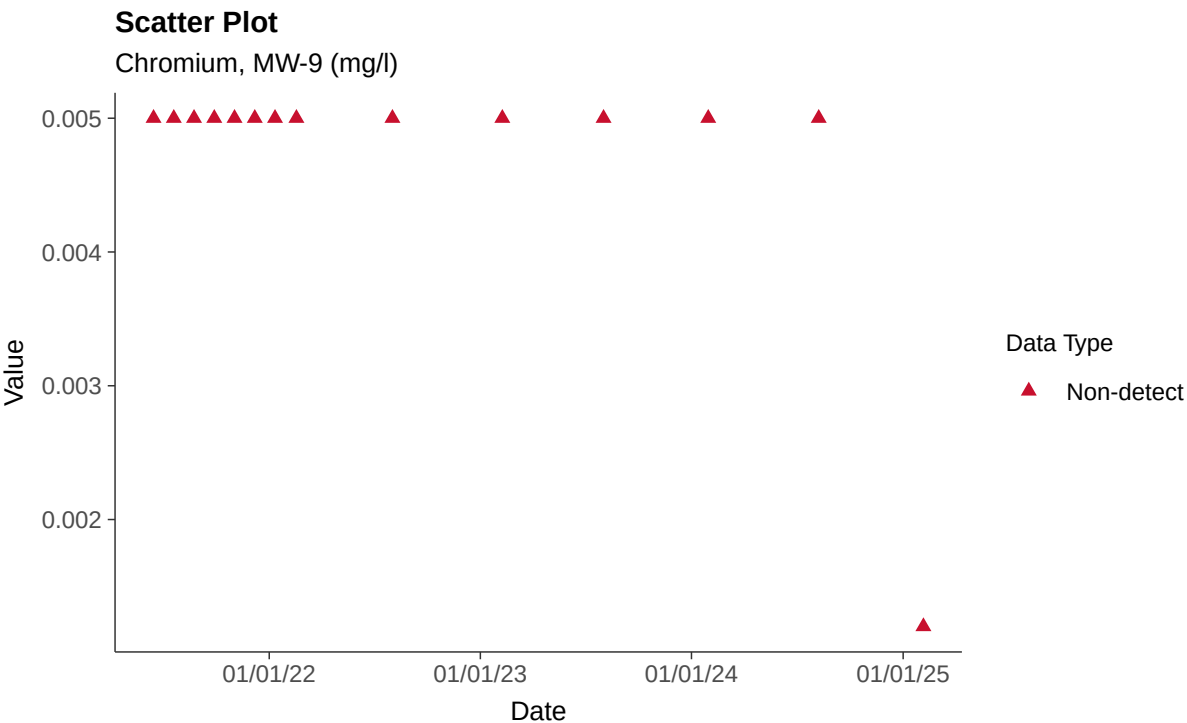


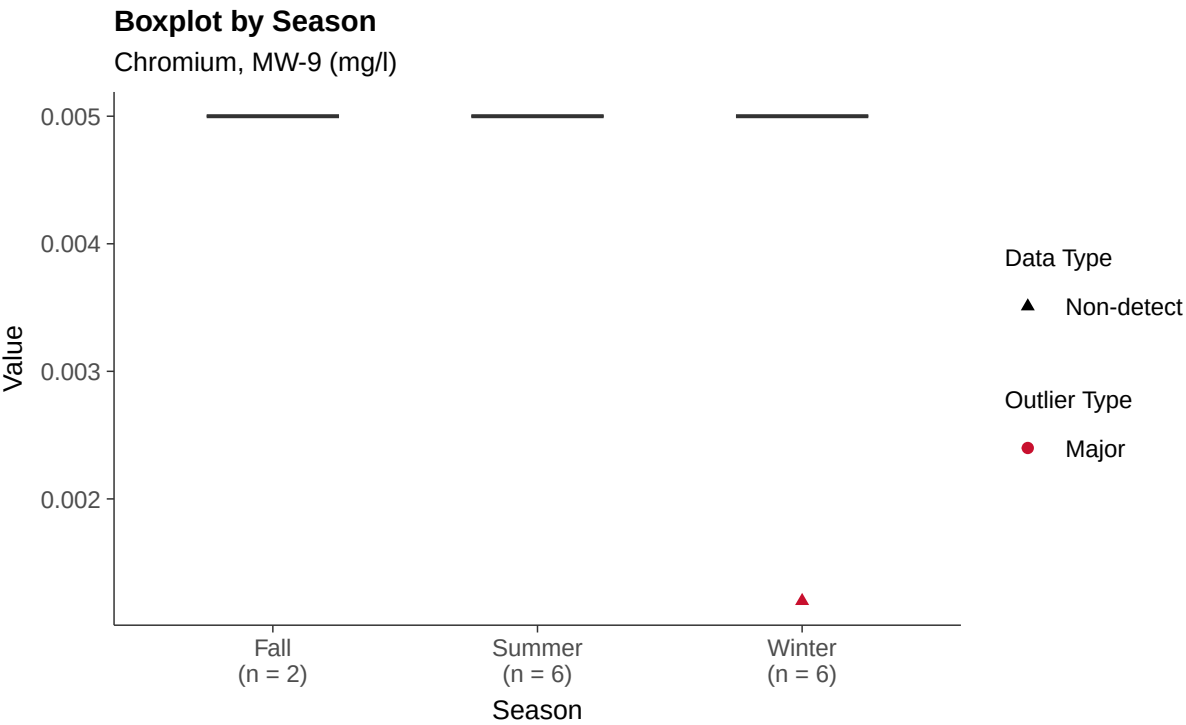
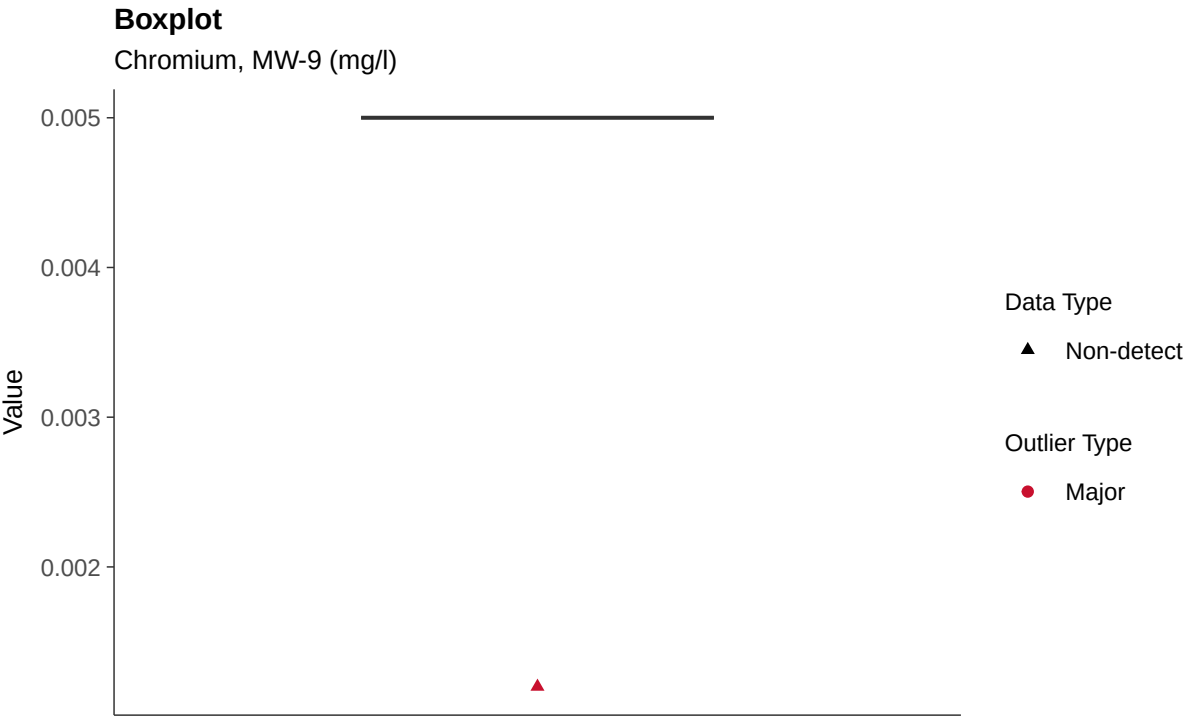




Appendix IV: Chromium, MW-9

ID: 18_3_109

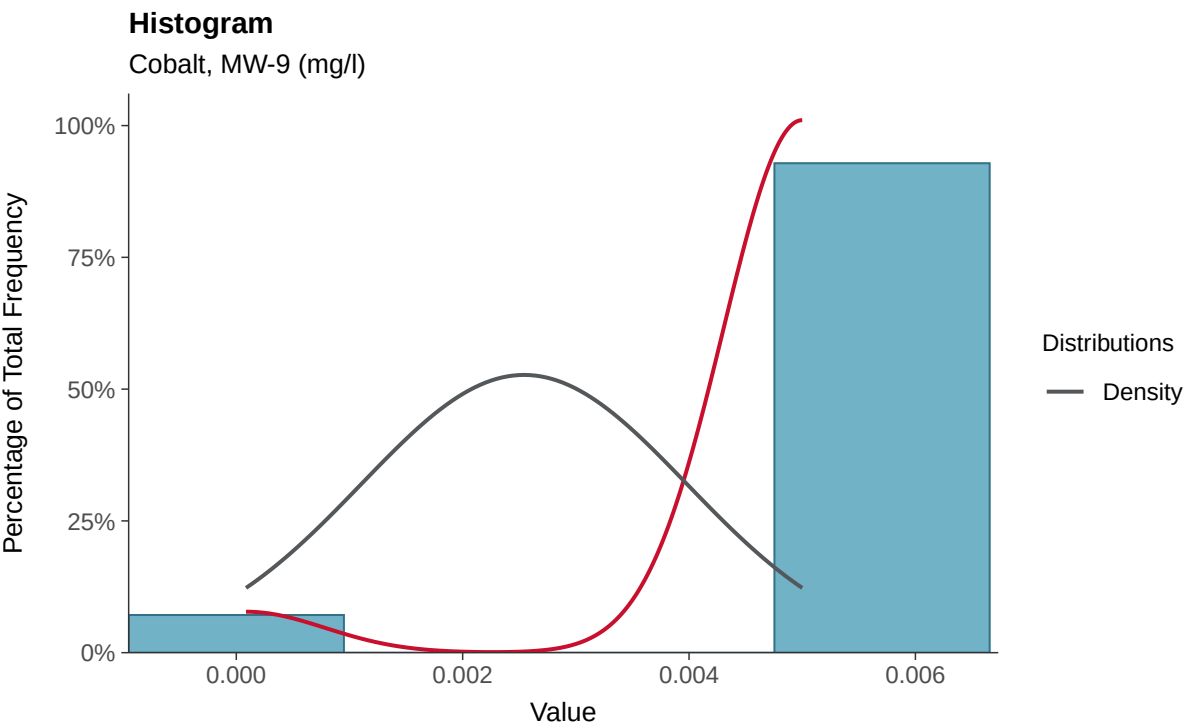
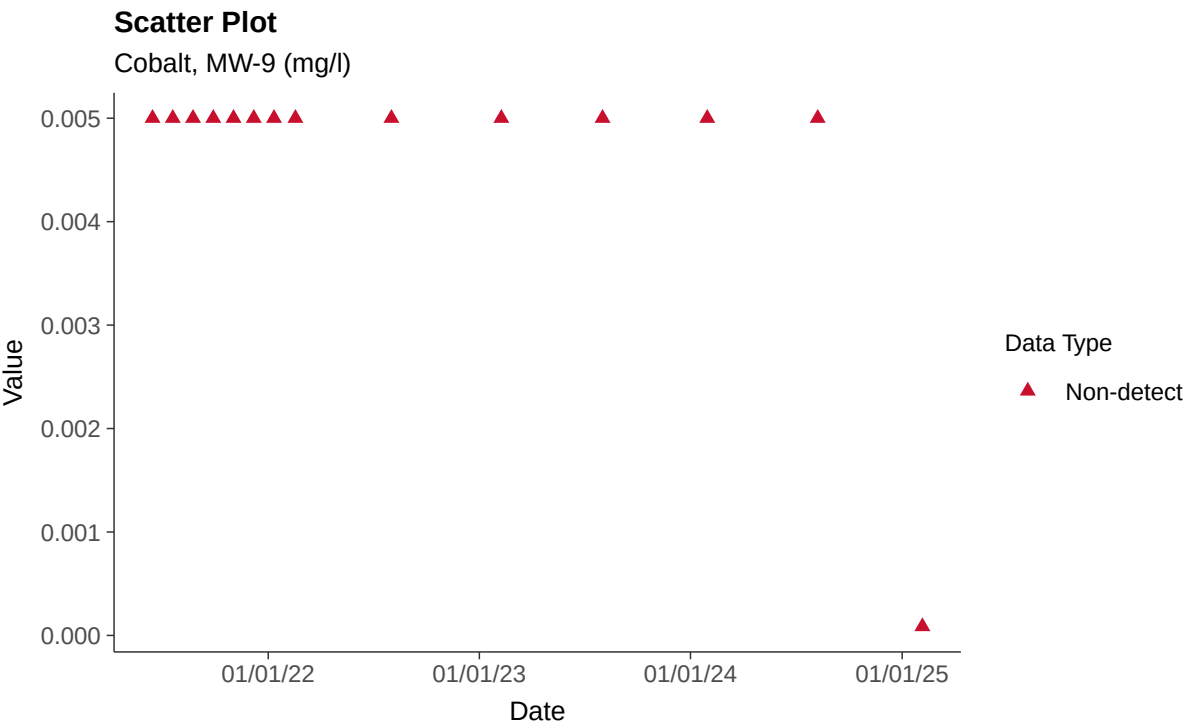


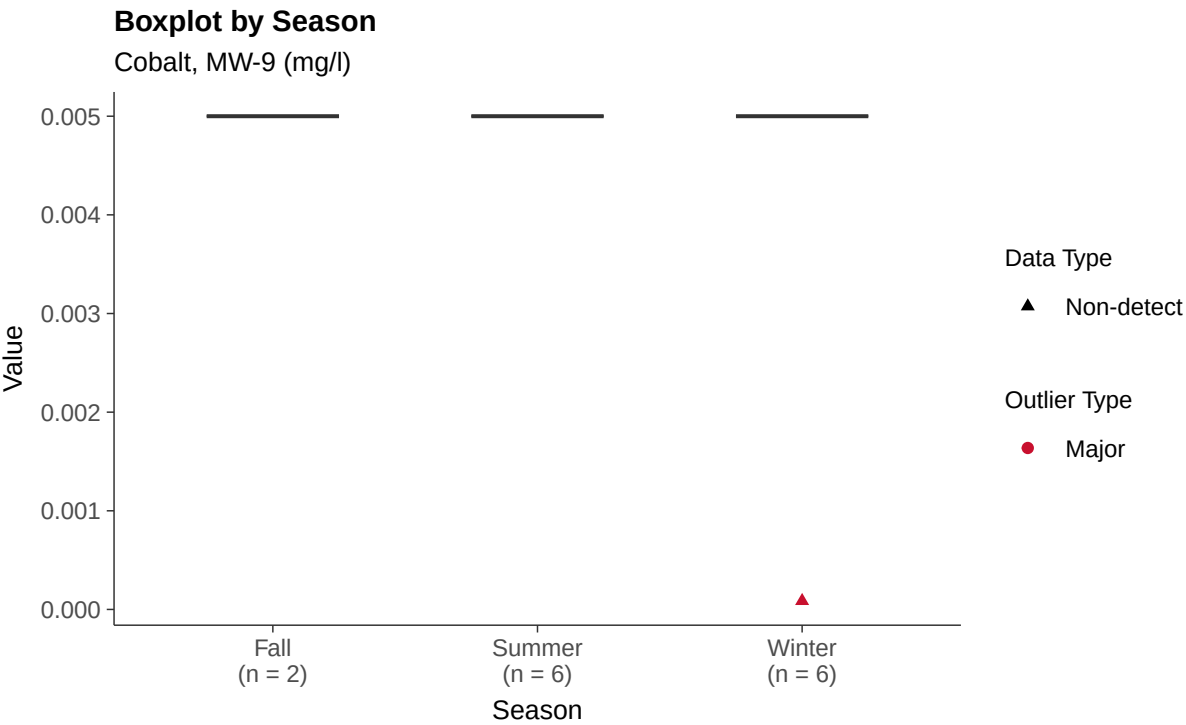
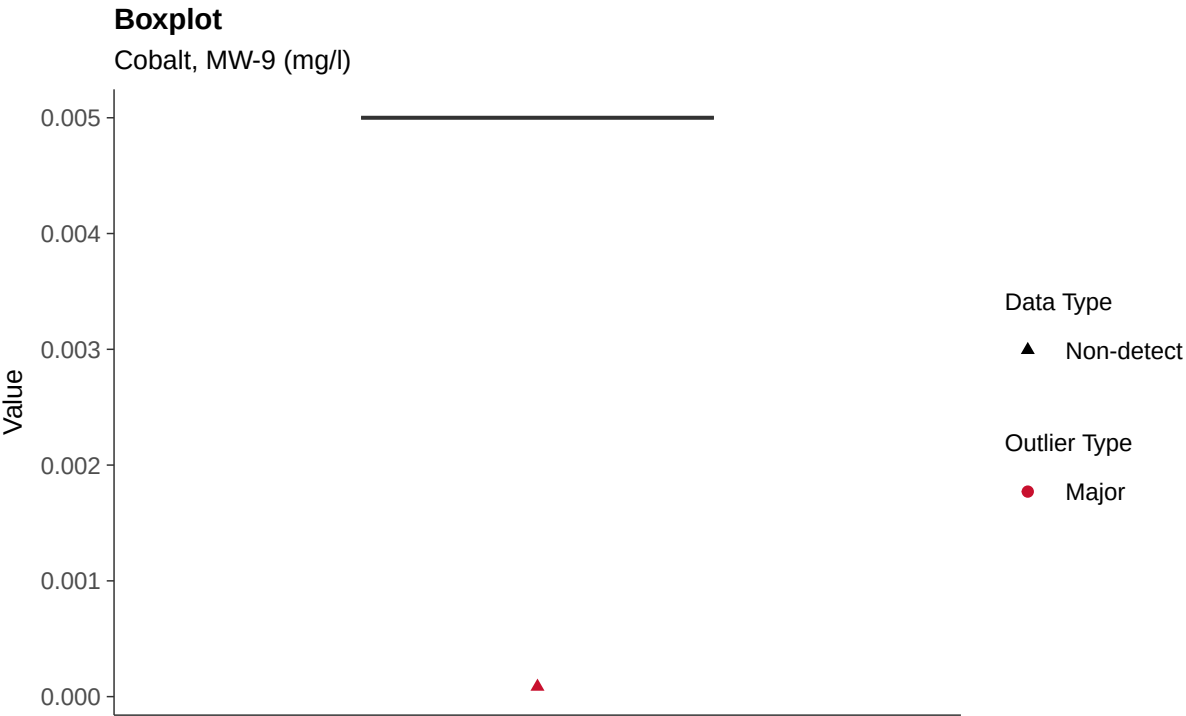




Appendix IV: Cobalt, MW-9

ID: 18_3_110

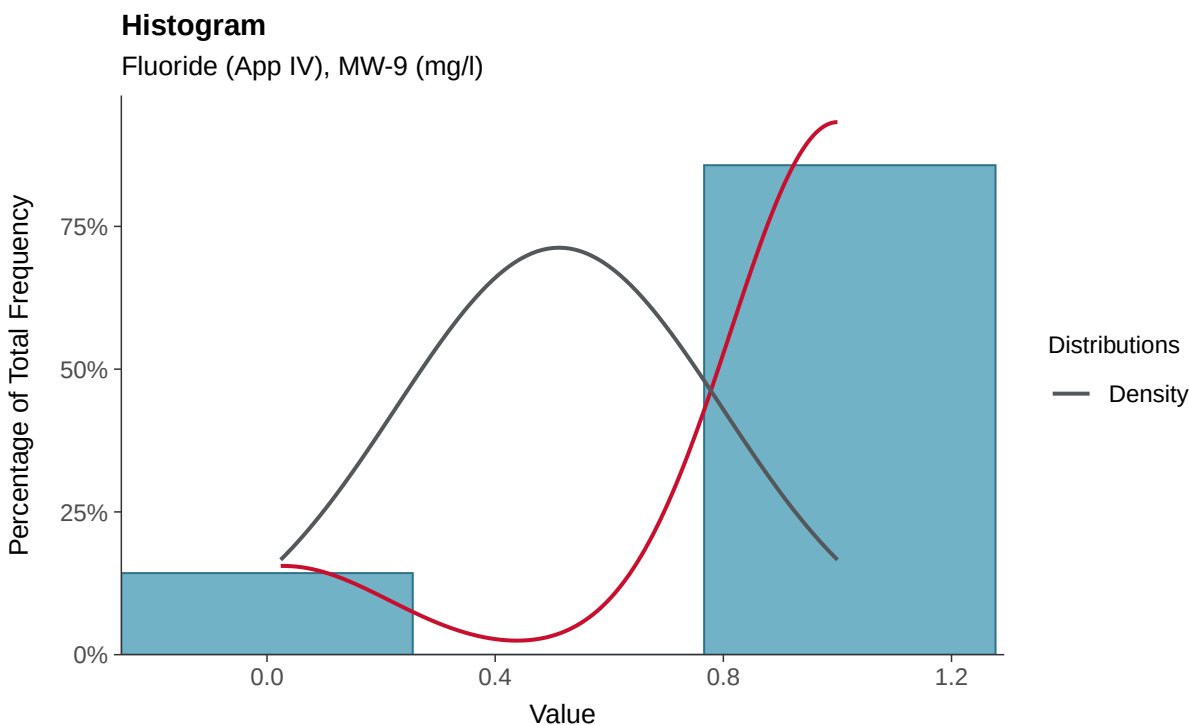
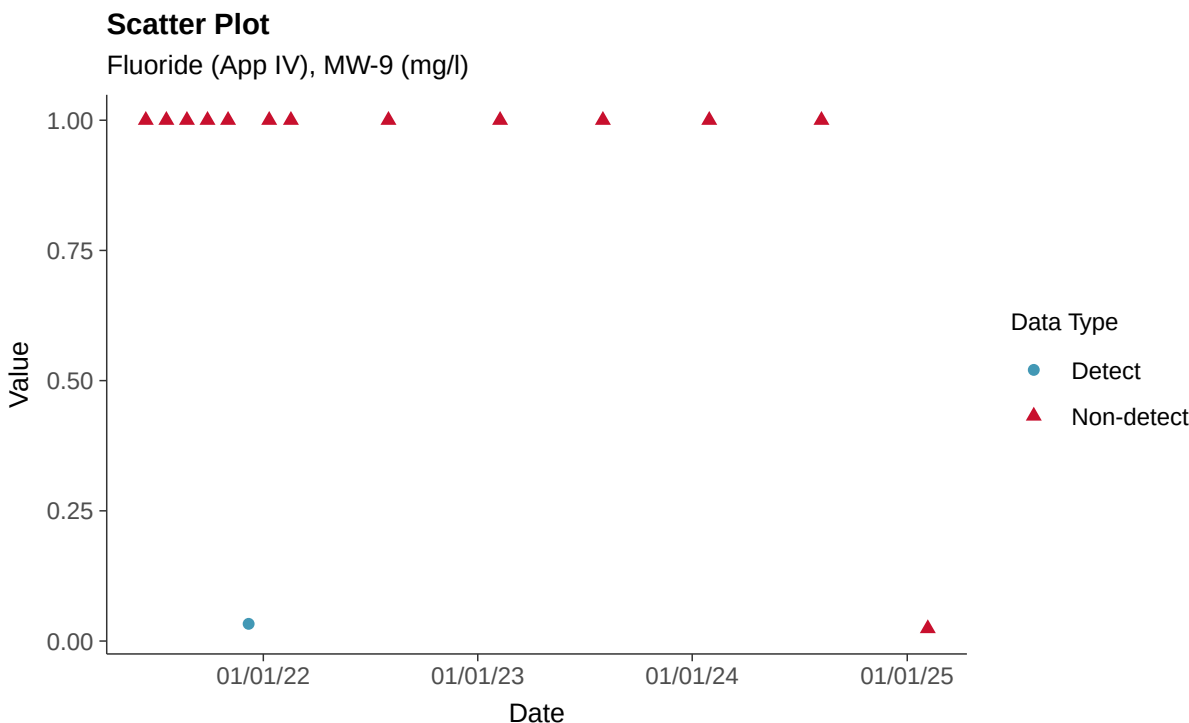


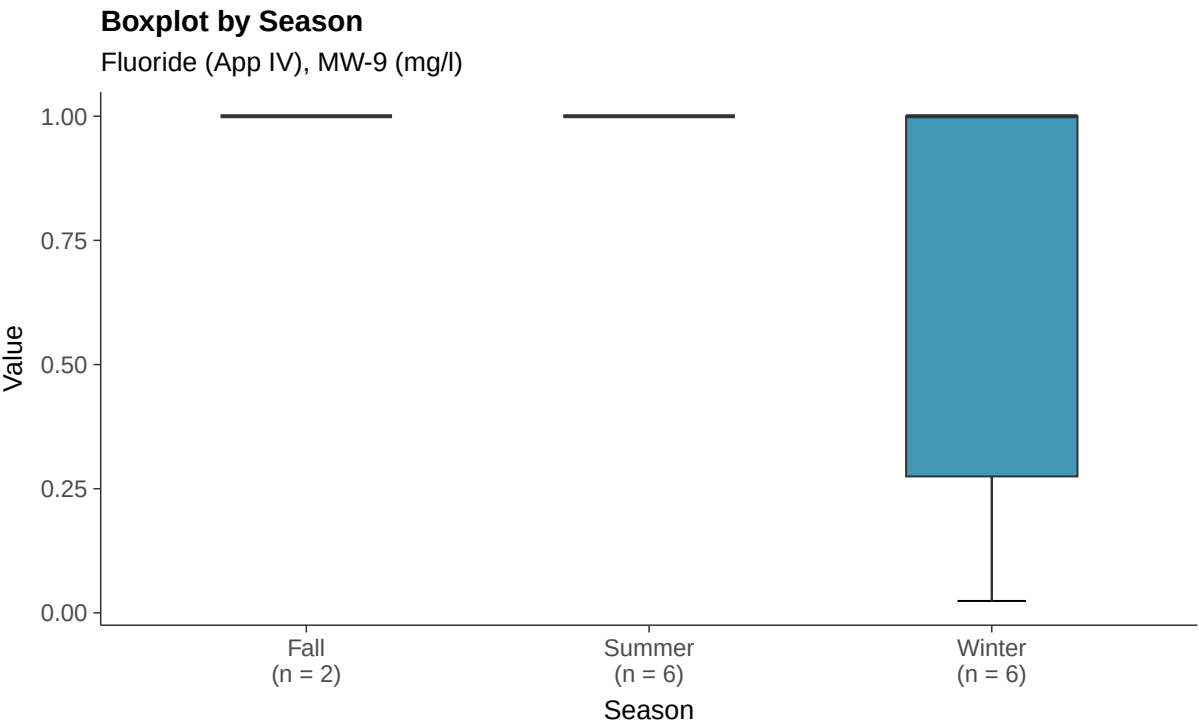
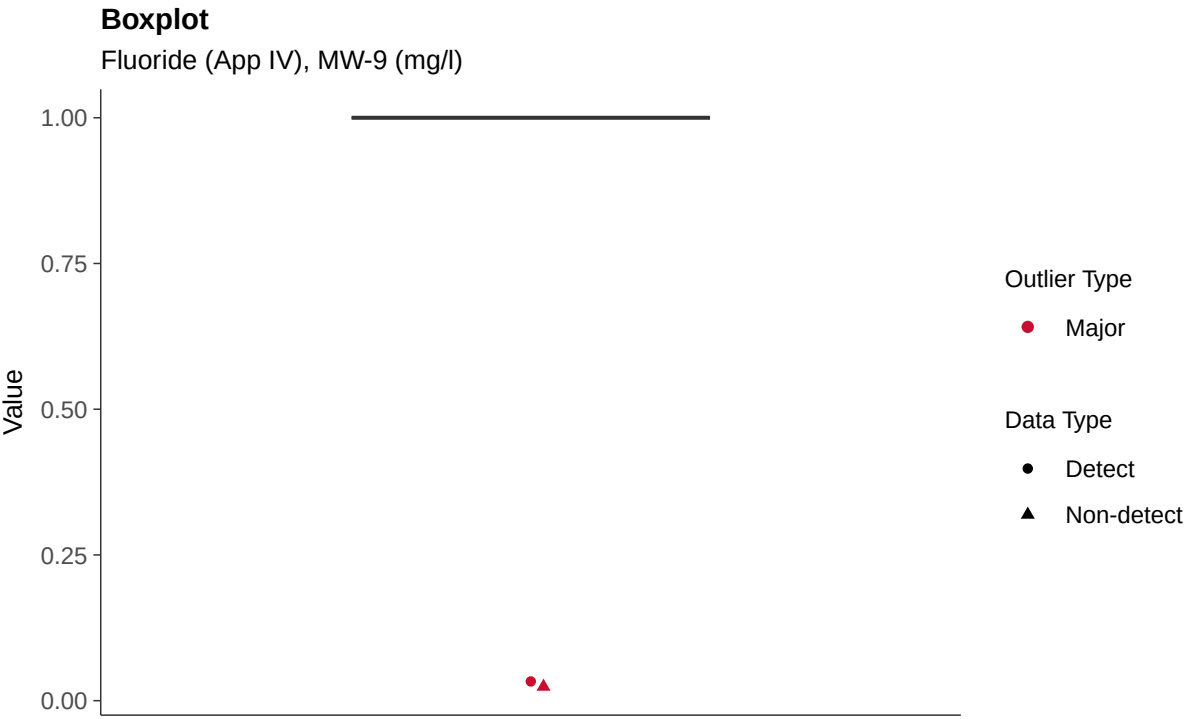


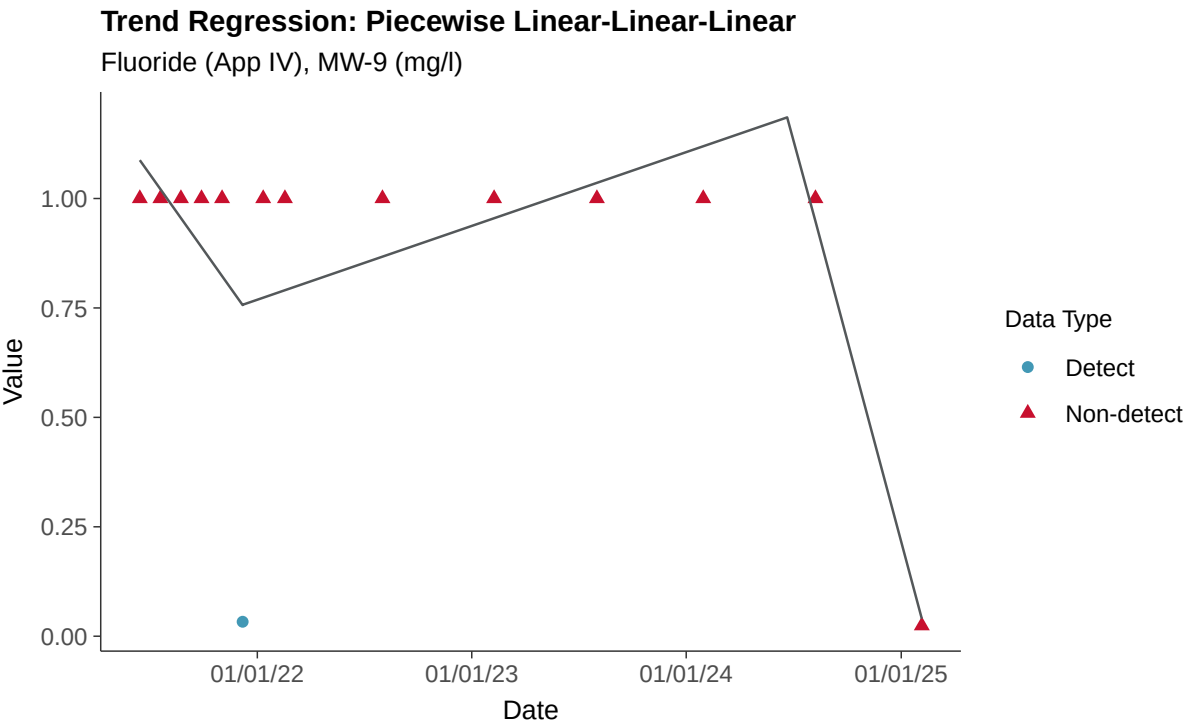
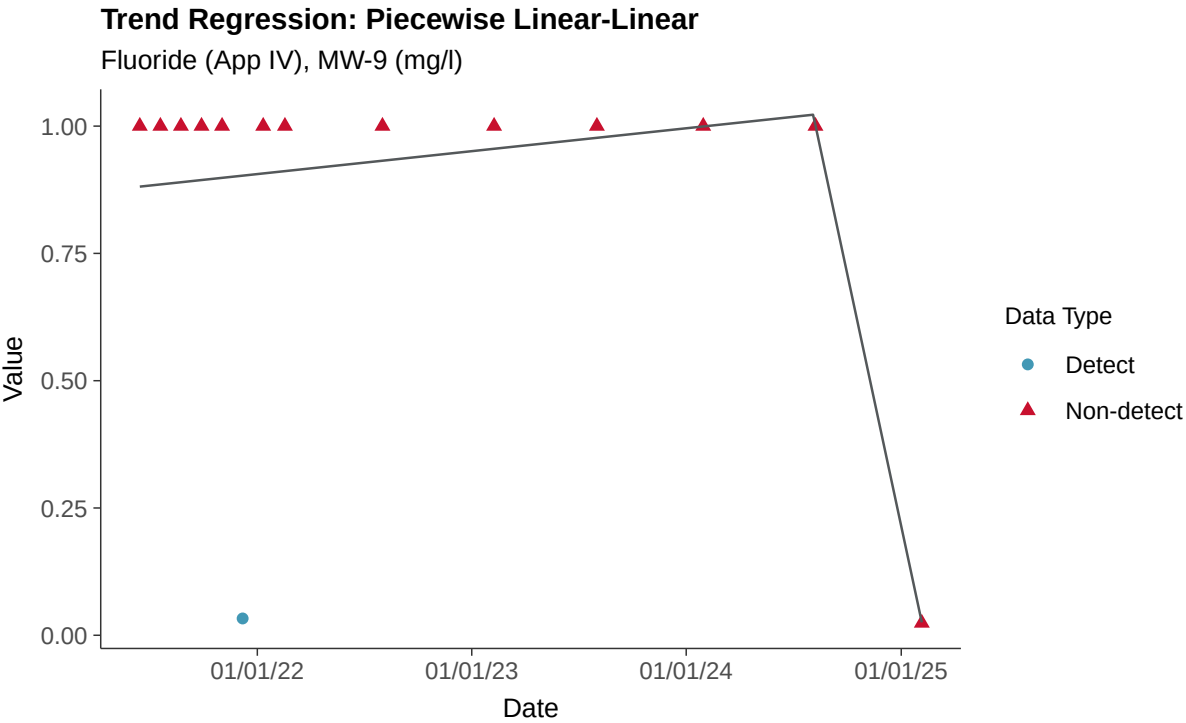


Appendix IV: Fluoride (App IV), MW-9

ID: 18_3_113



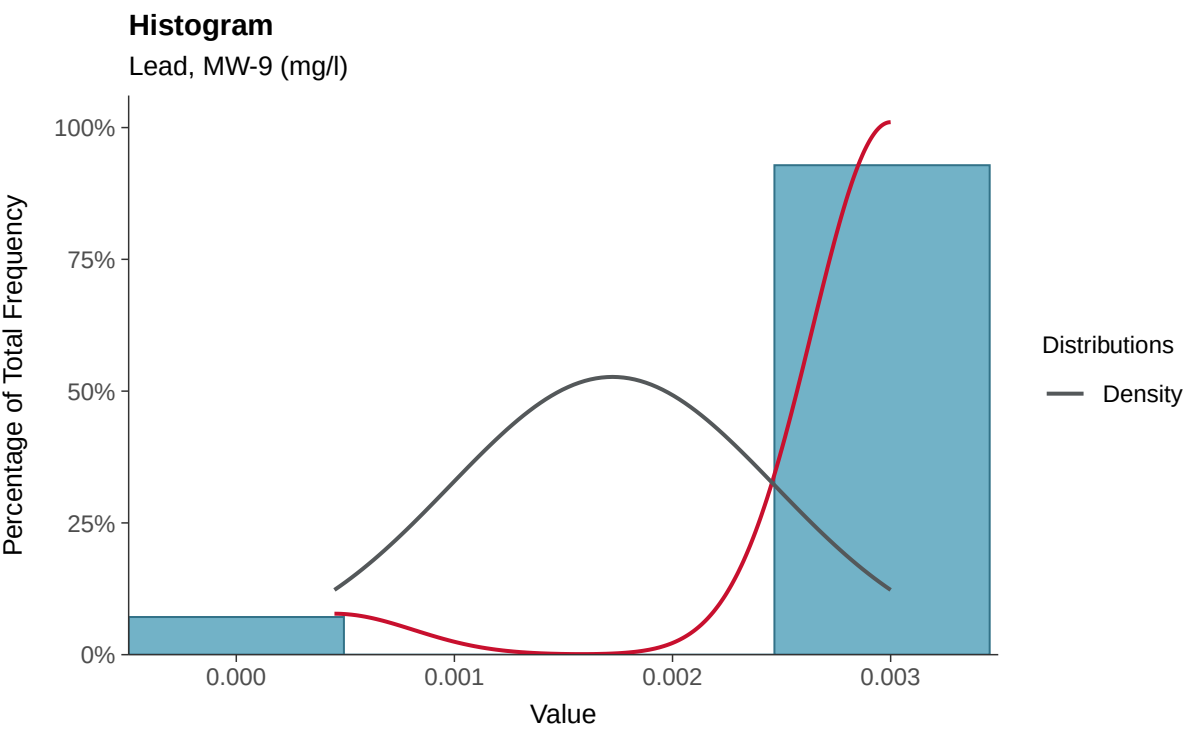
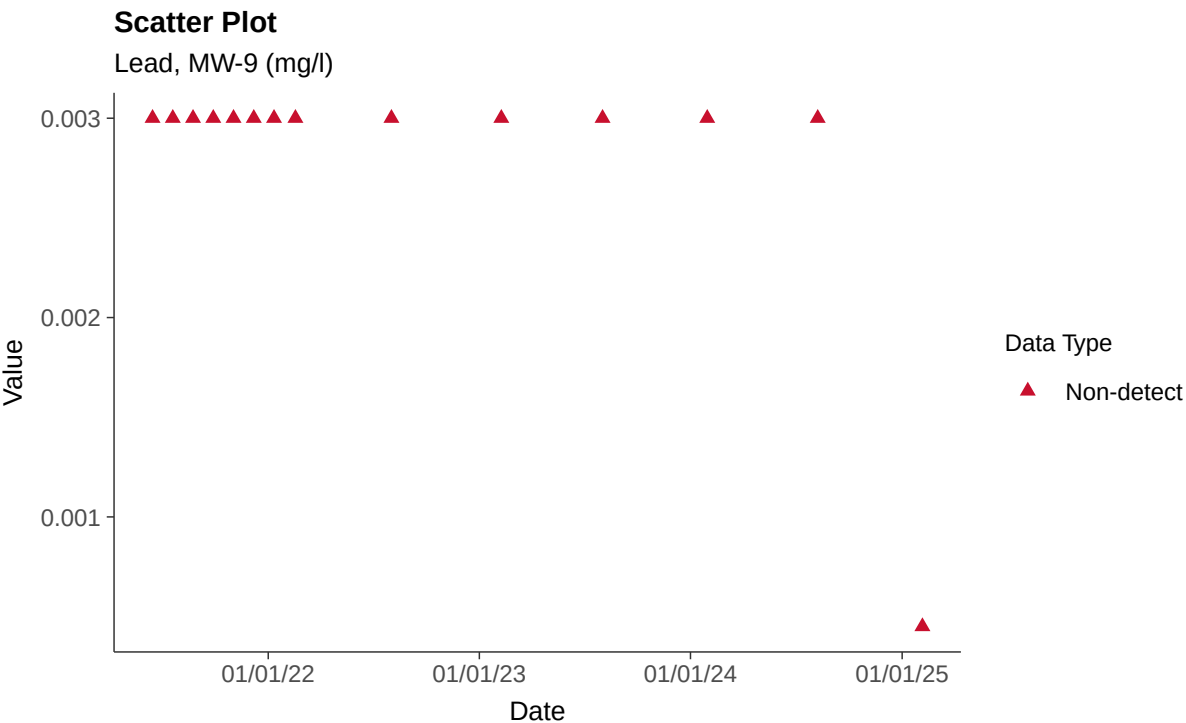


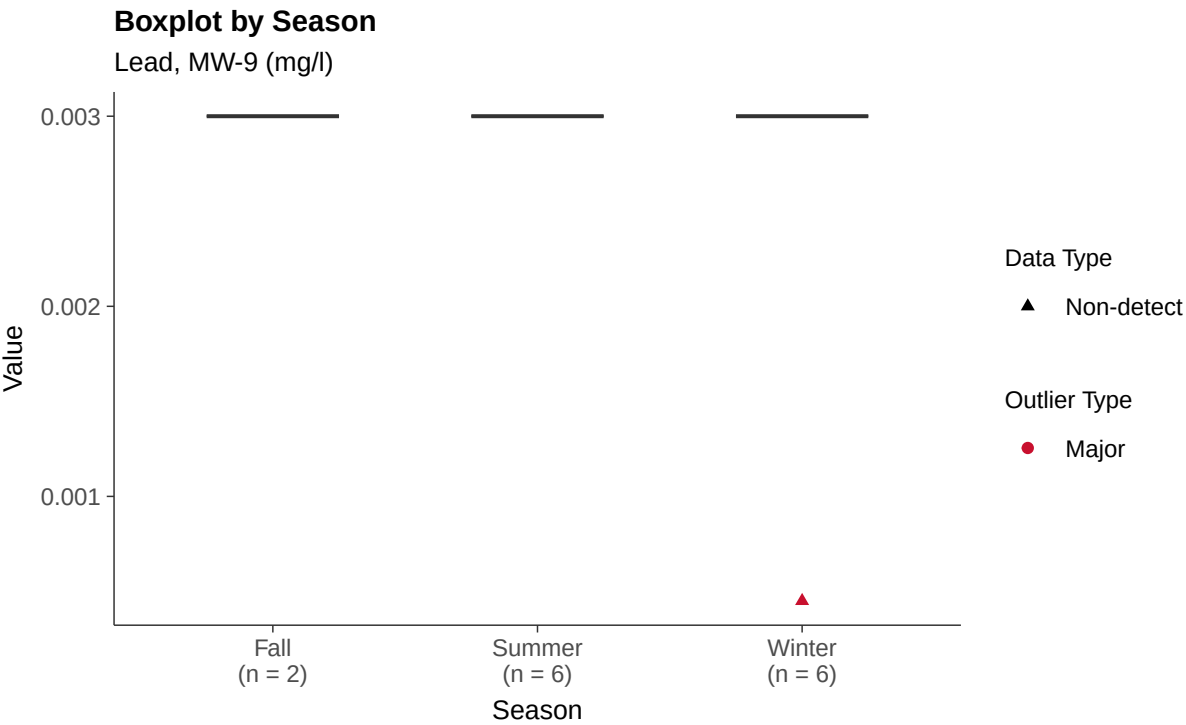
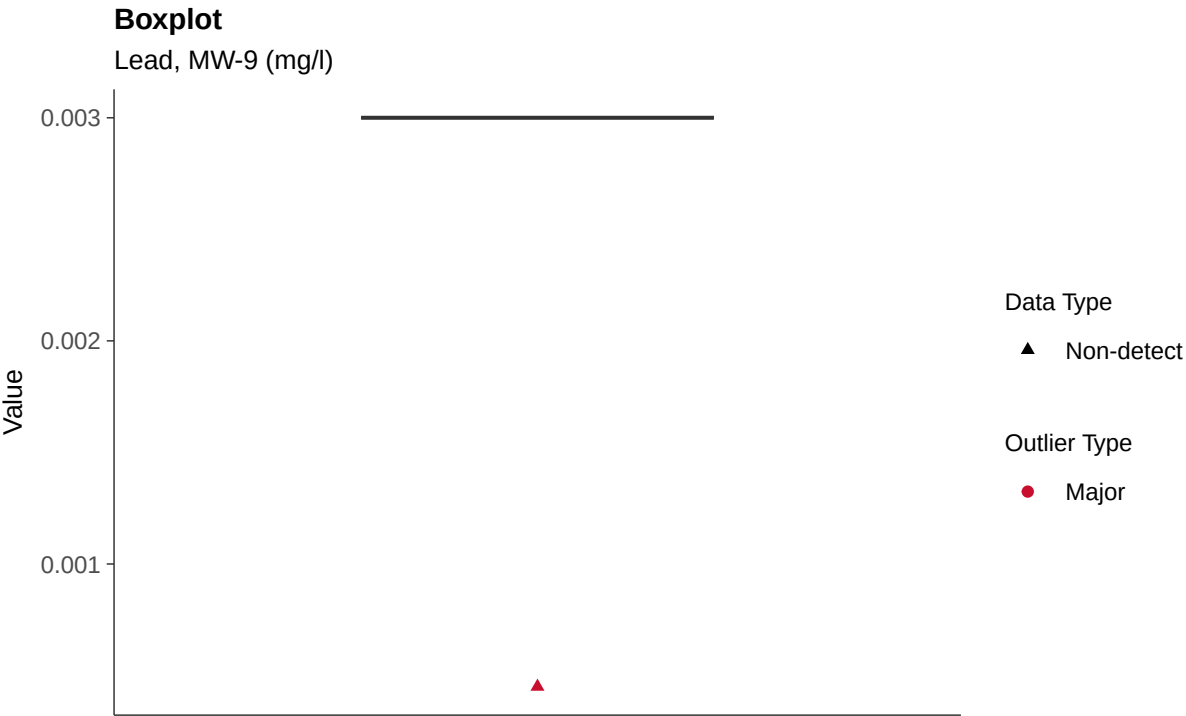




Appendix IV: Lead, MW-9

ID: 18_3_115

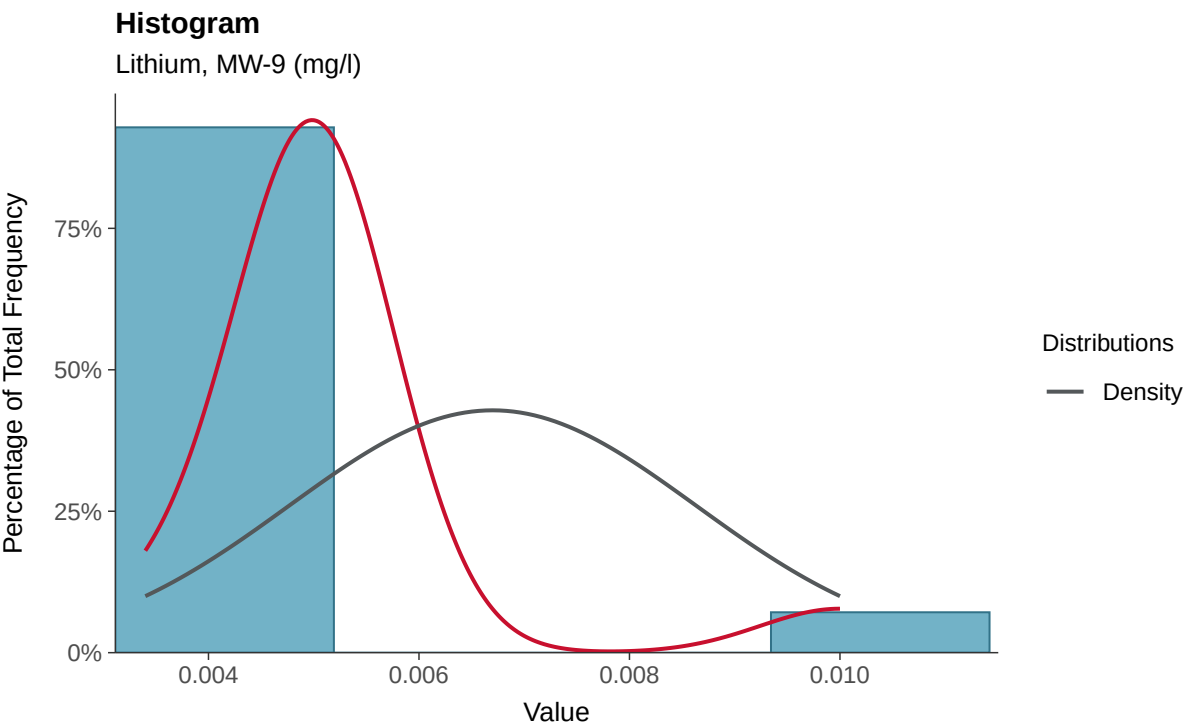
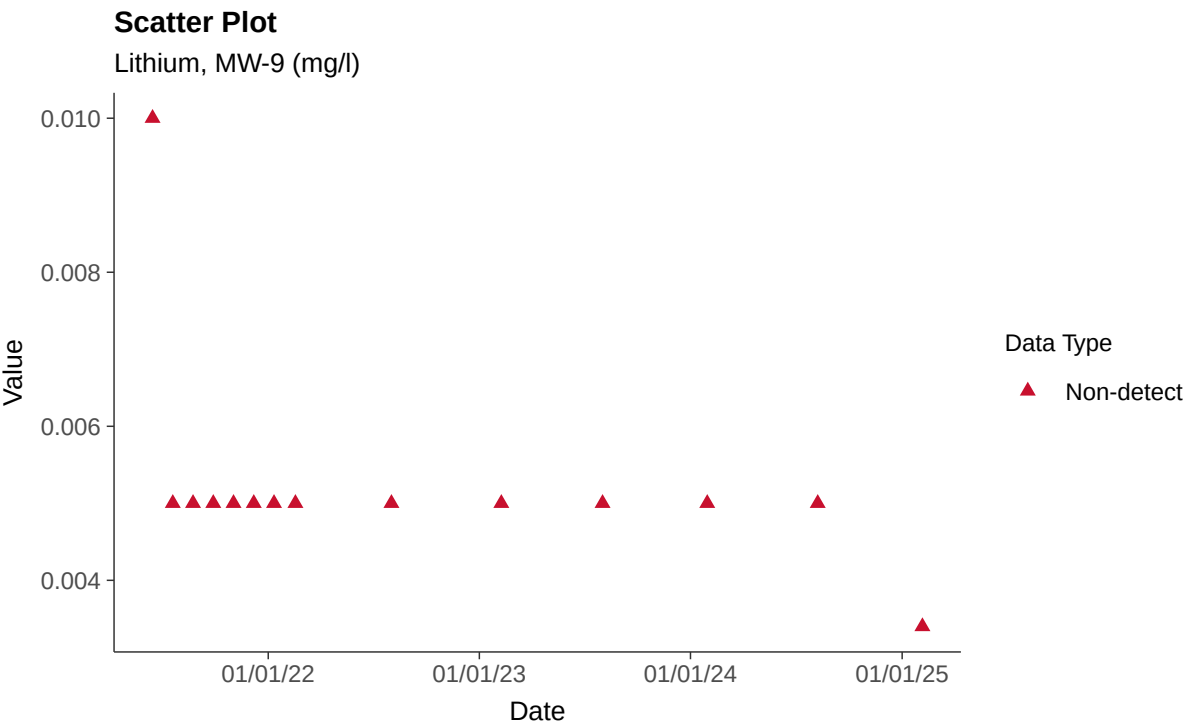


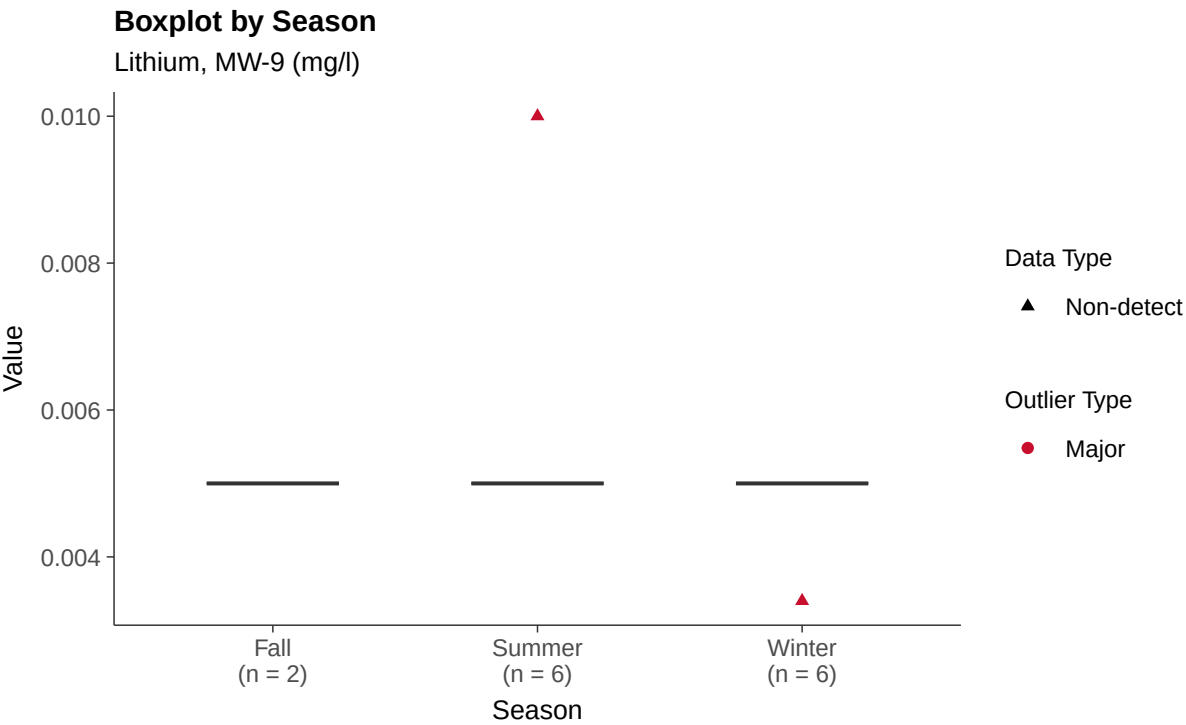
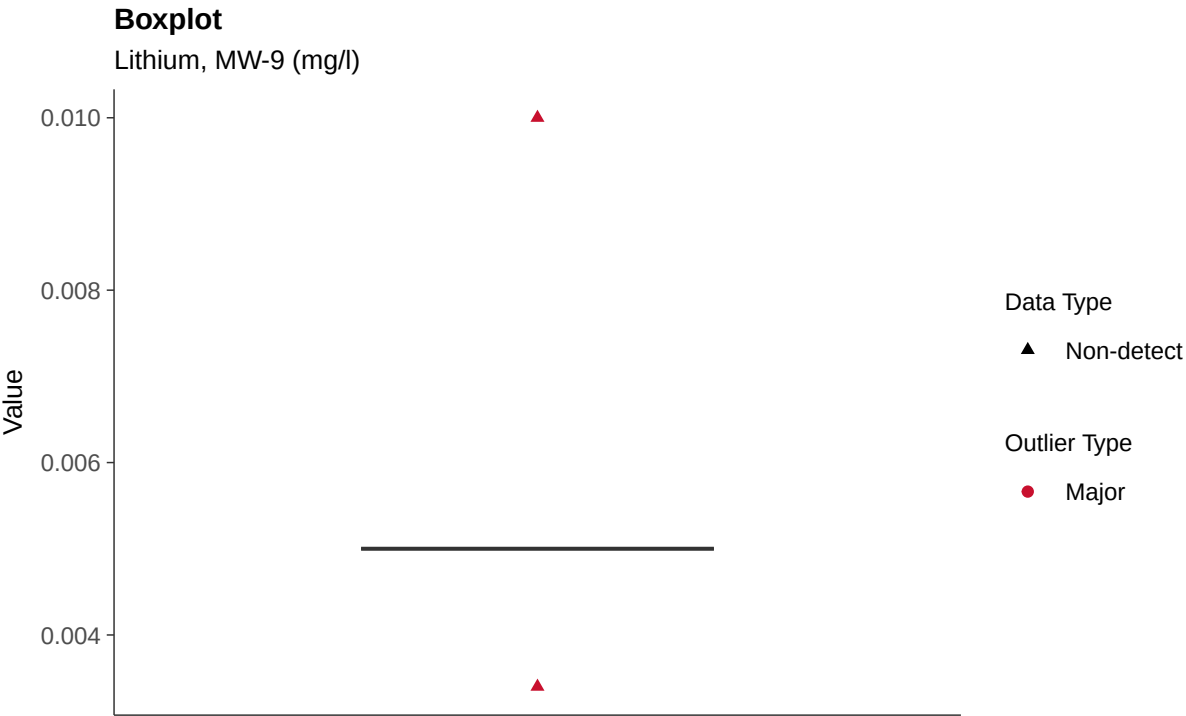


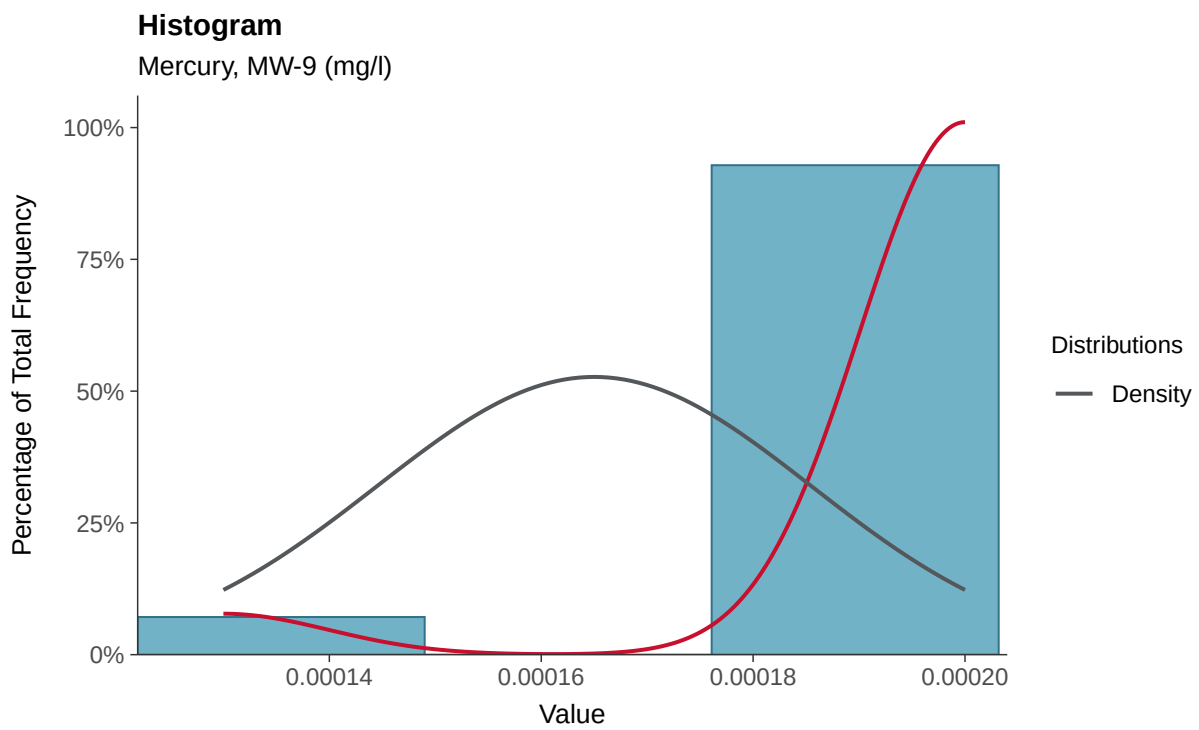


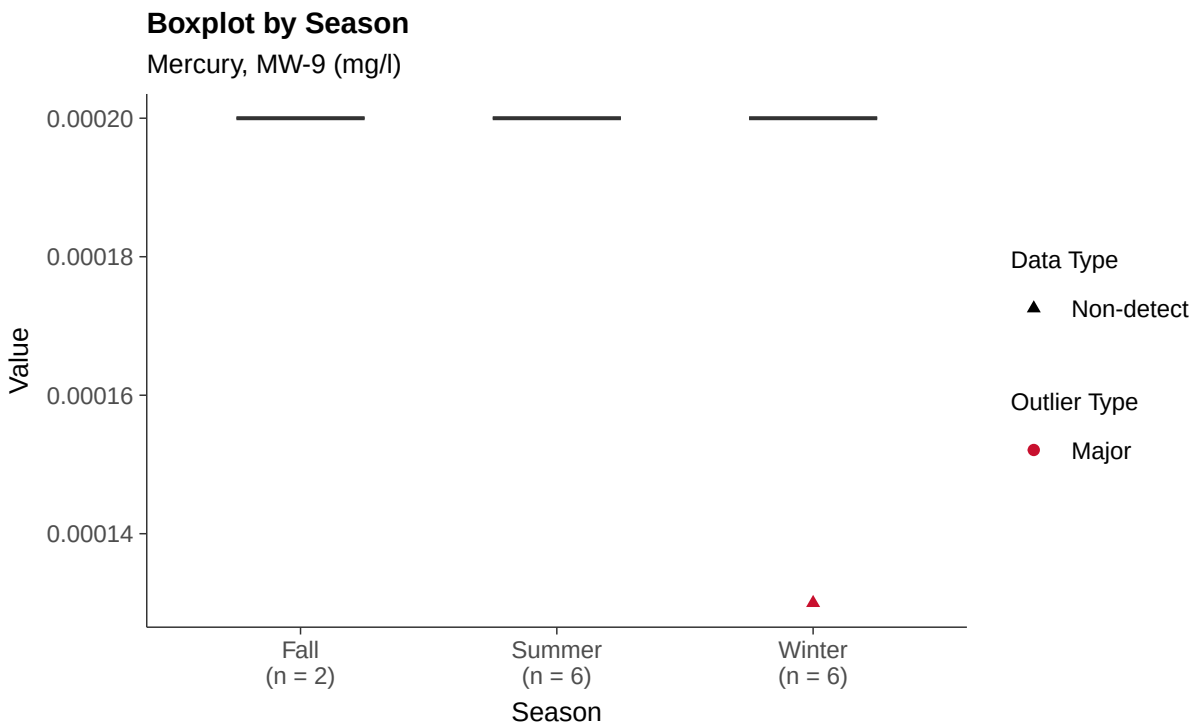
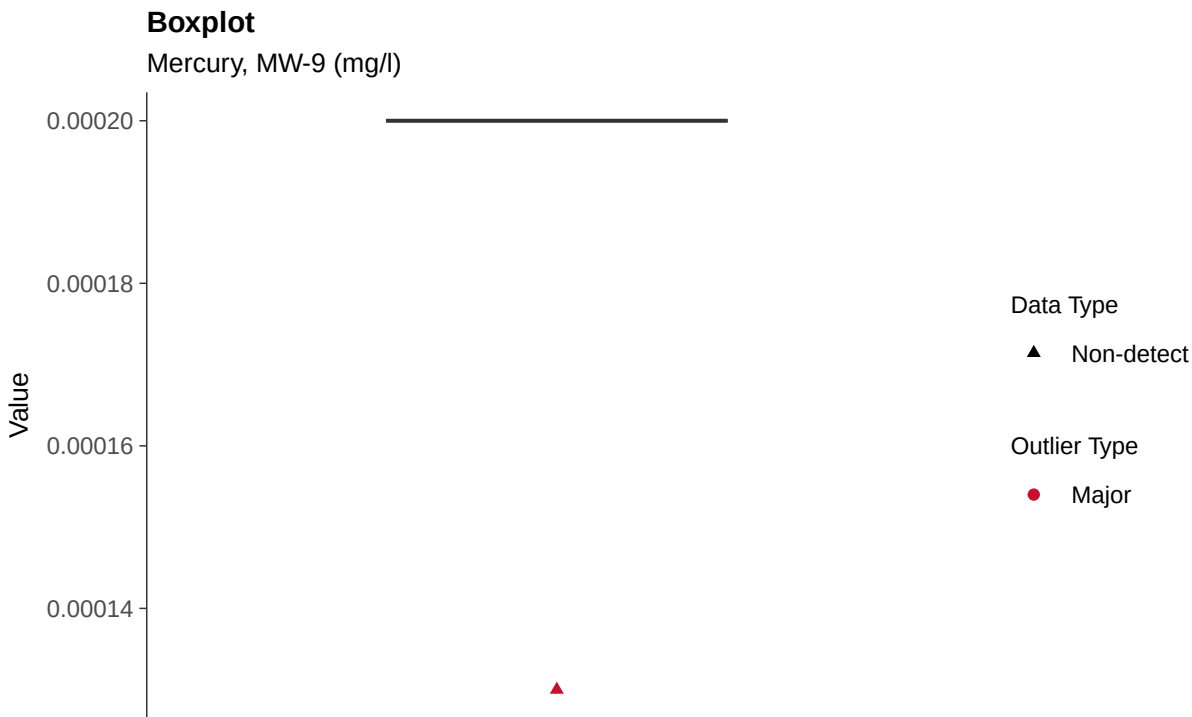
Appendix IV: Lithium, MW-9

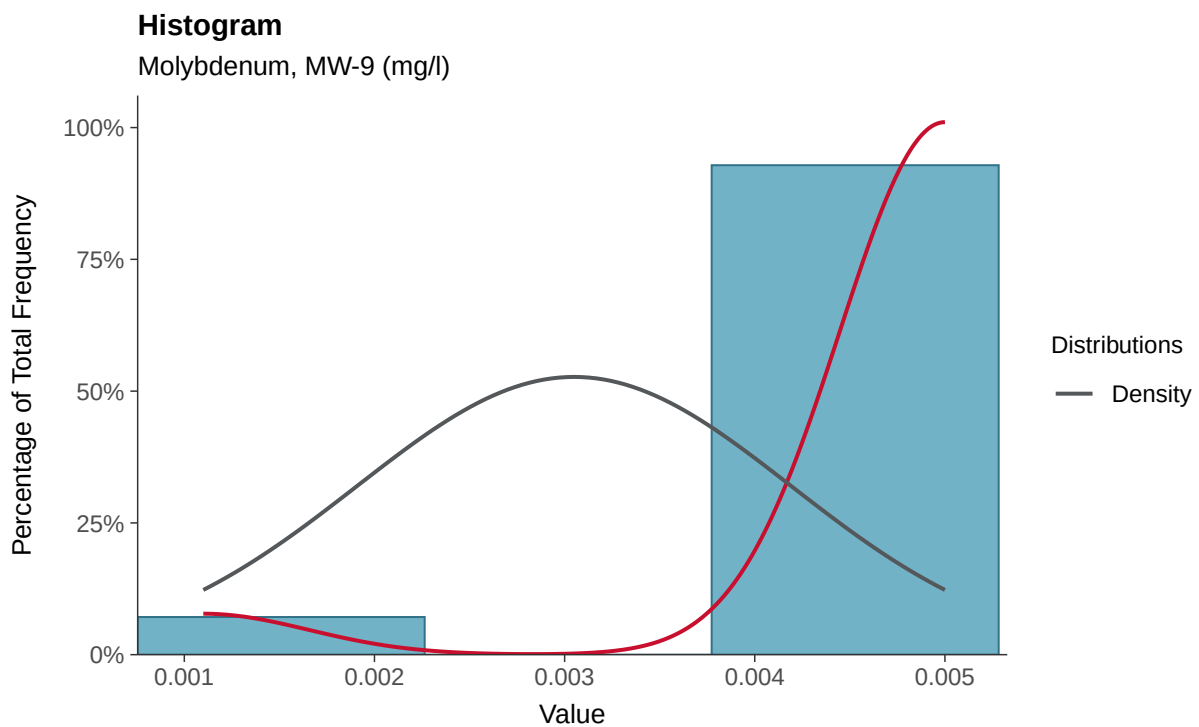
ID: 18_3_116

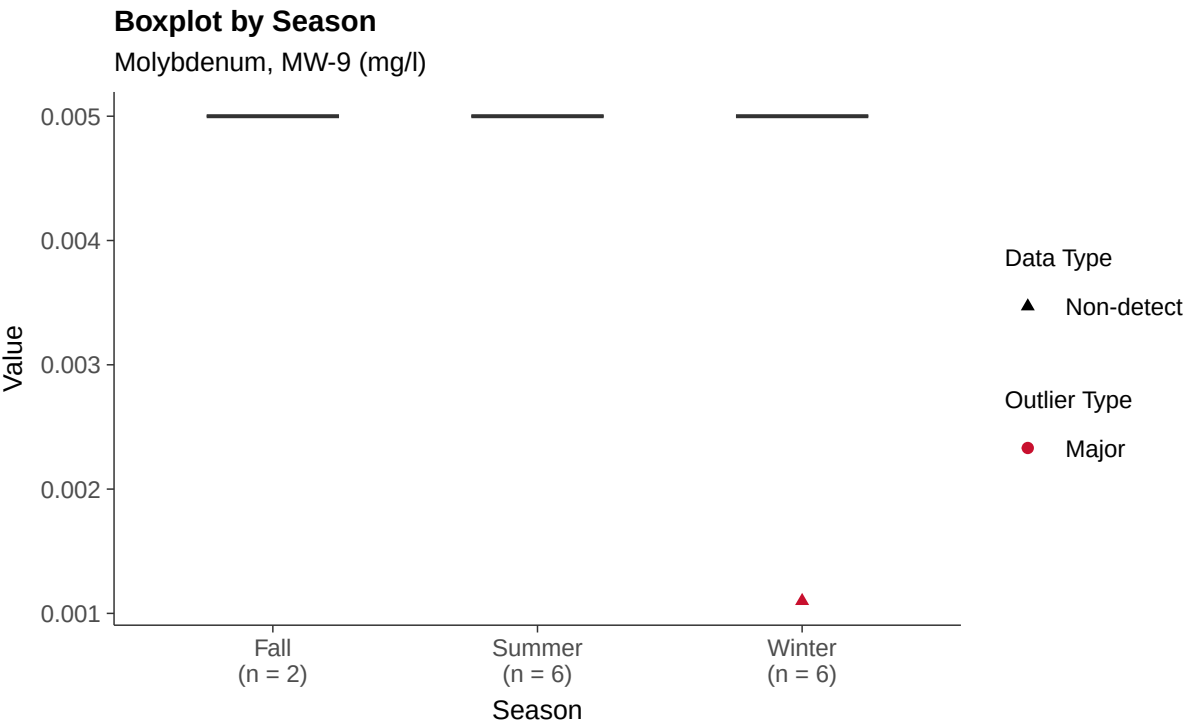
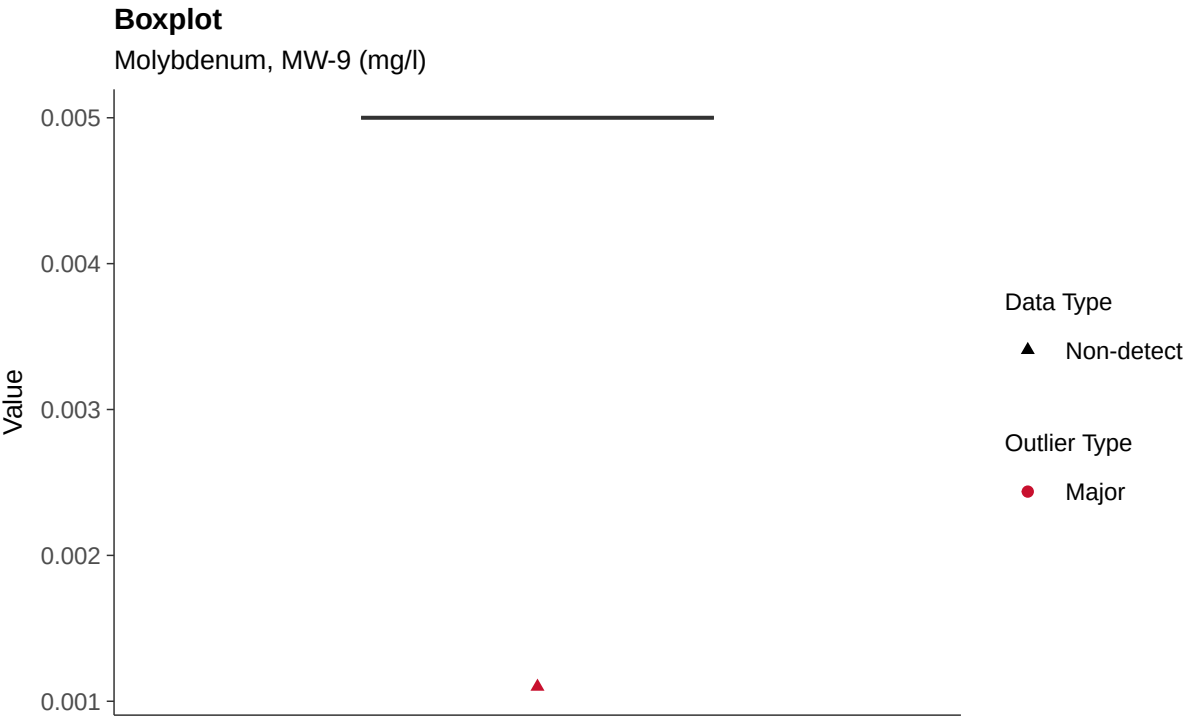








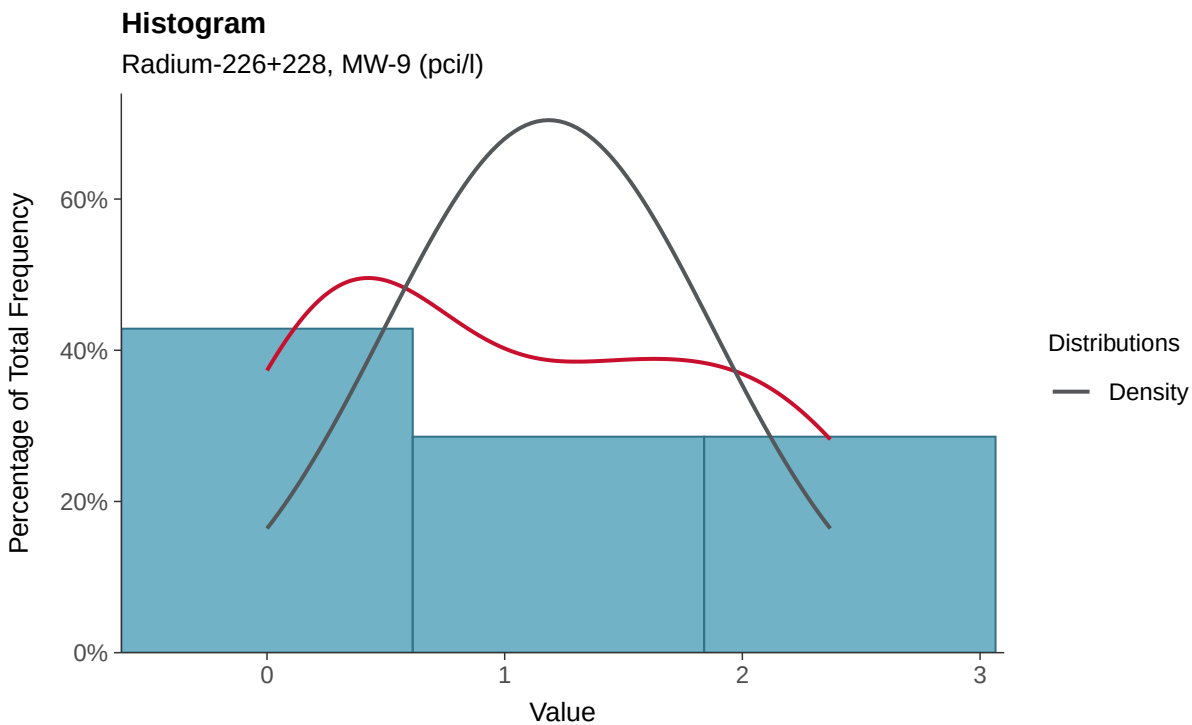
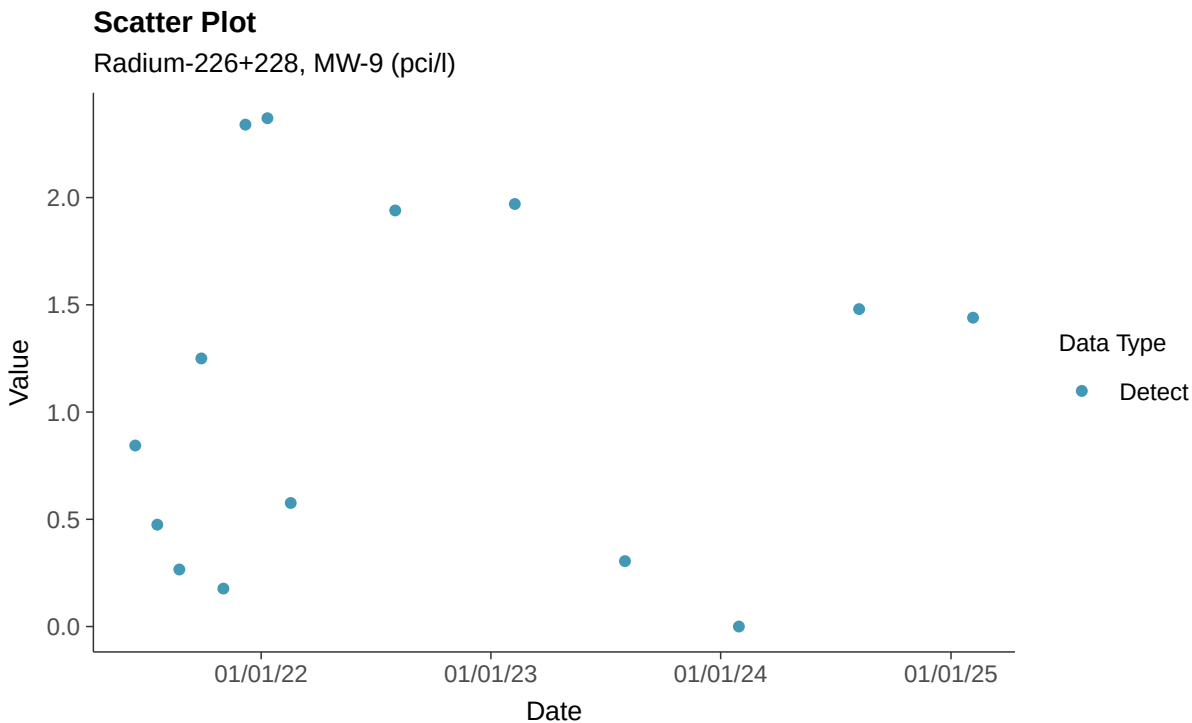






Appendix IV: Radium-226+228, MW-9

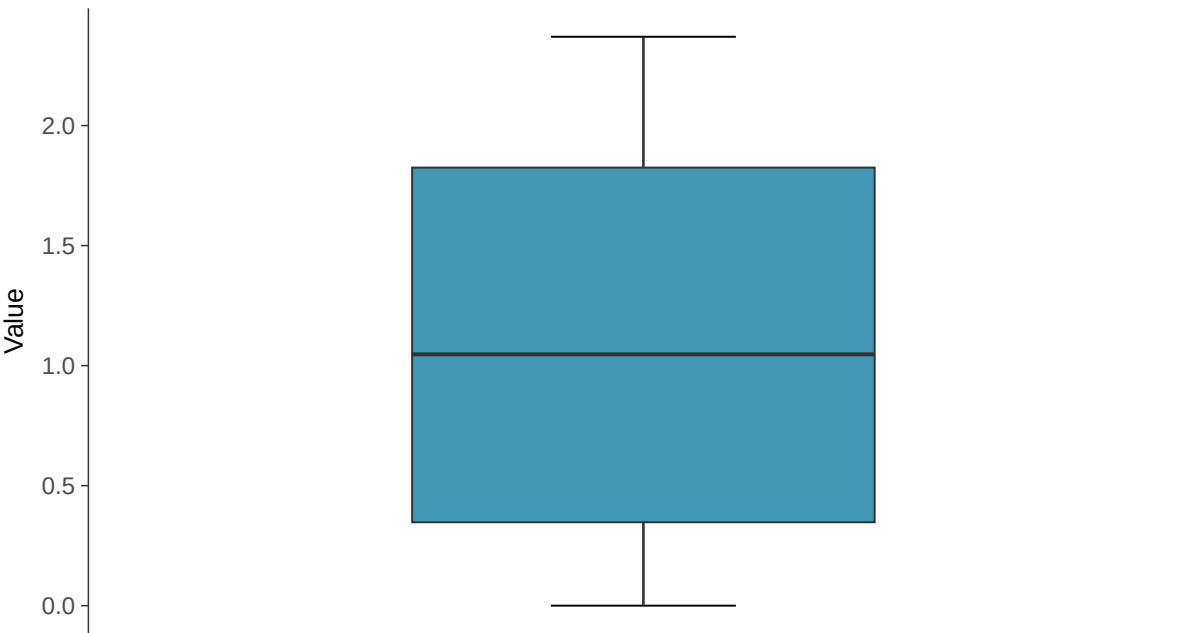
ID: 18_3_121





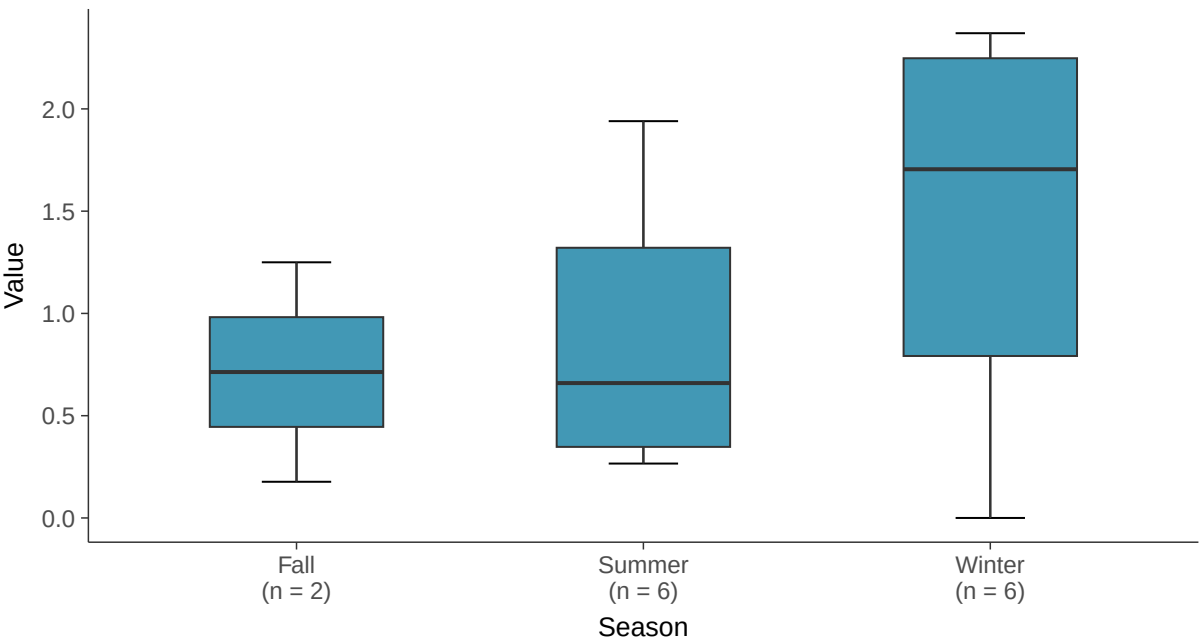
Boxplot

Radium-226+228, MW-9 (pci/l)



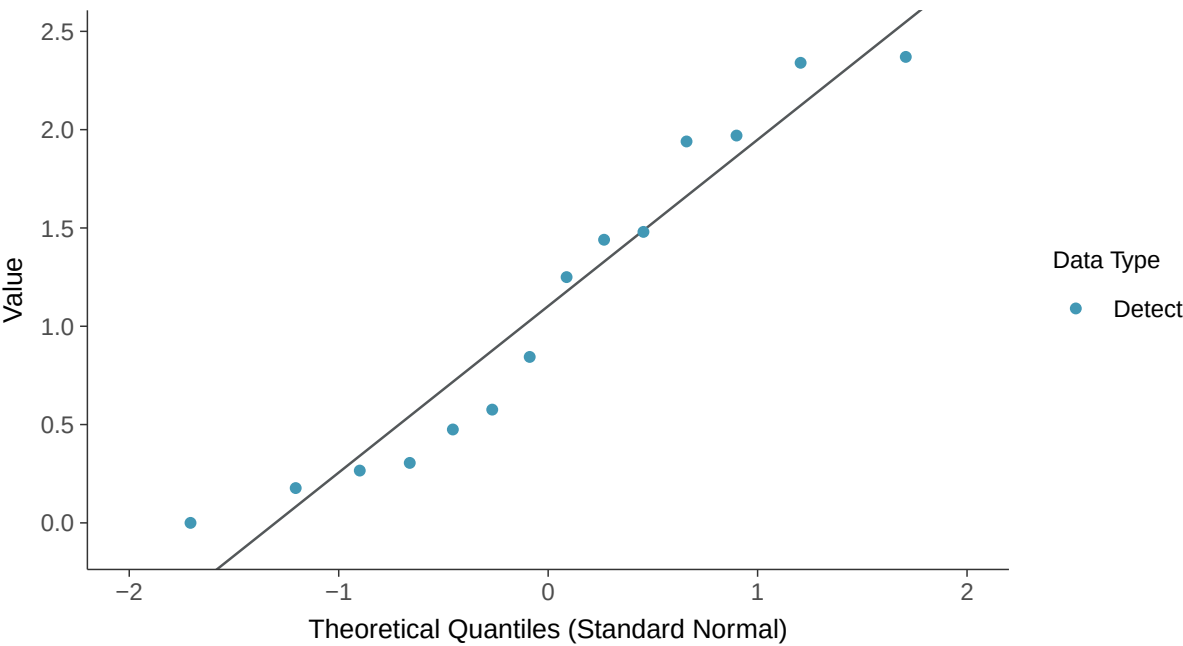
Boxplot by Season

Radium-226+228, MW-9 (pci/l)

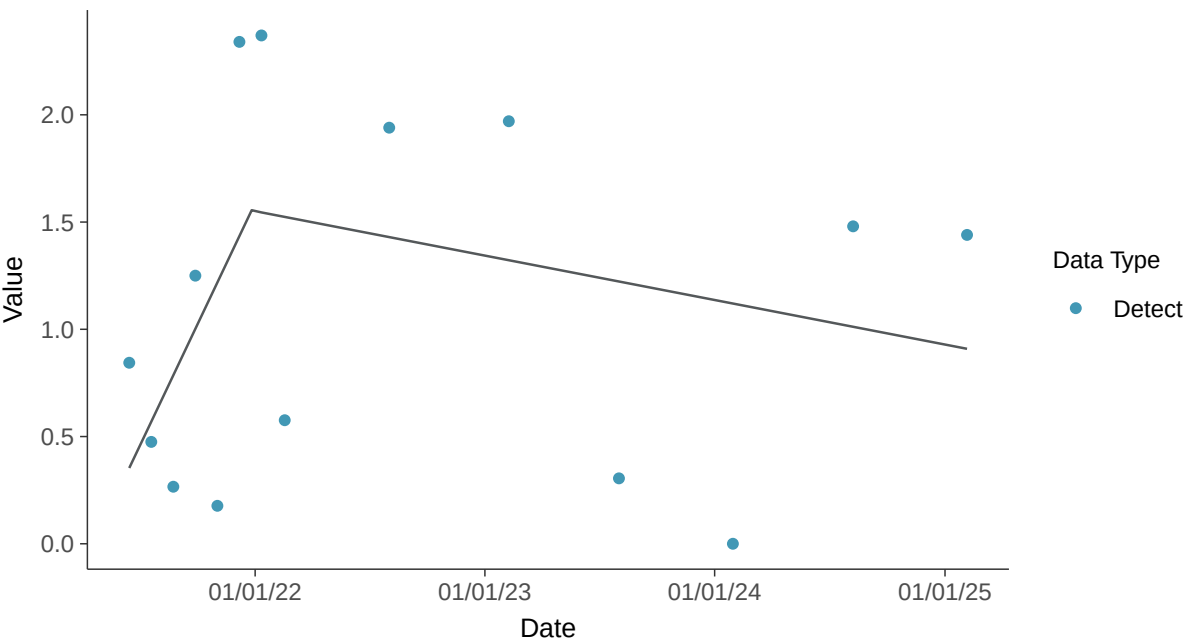




Normal Q-Q plot
Radium-226+228, MW-9 (pci/l)

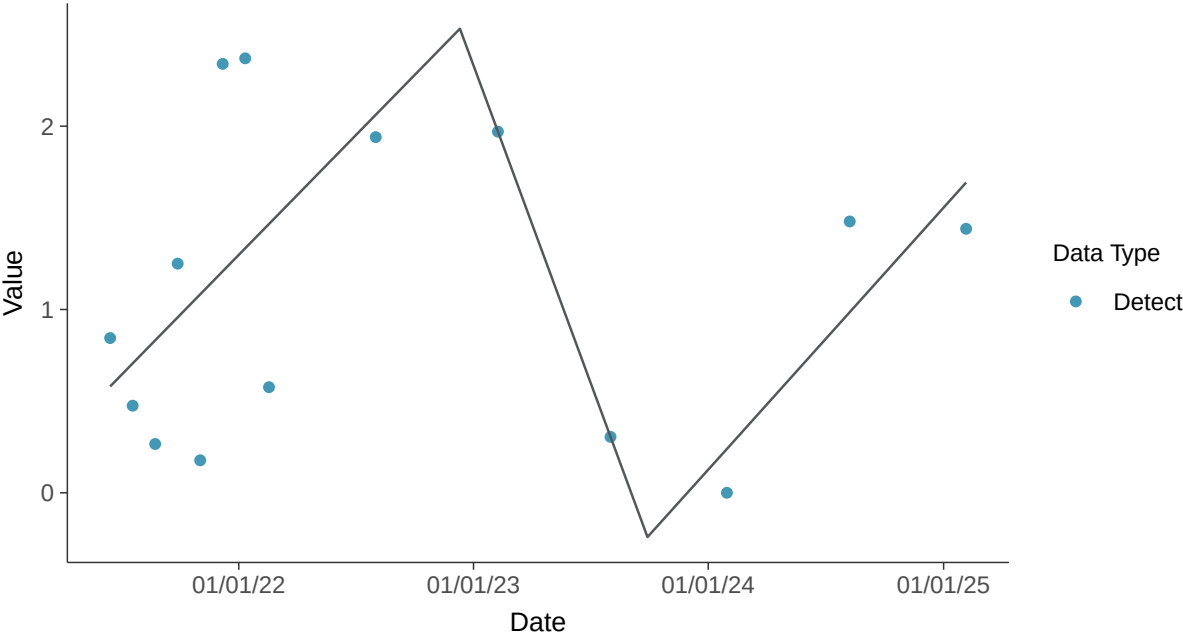


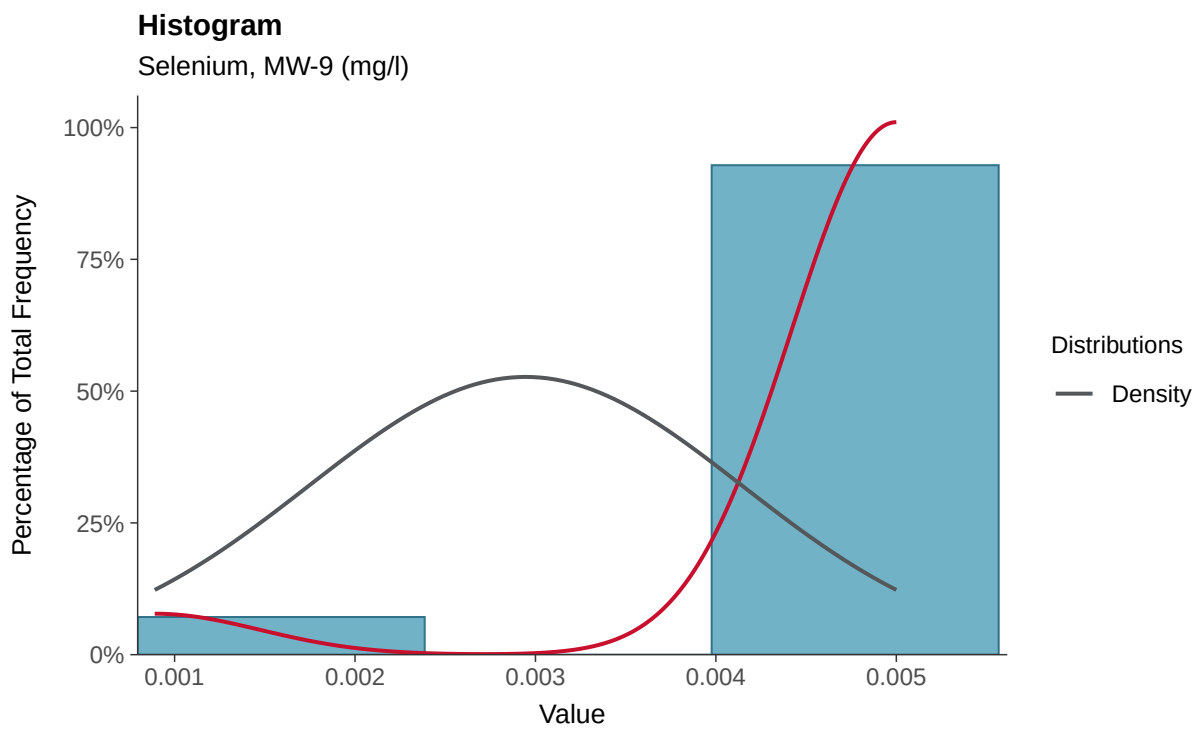
Trend Regression: Piecewise Linear-Linear
Radium-226+228, MW-9 (pci/l)

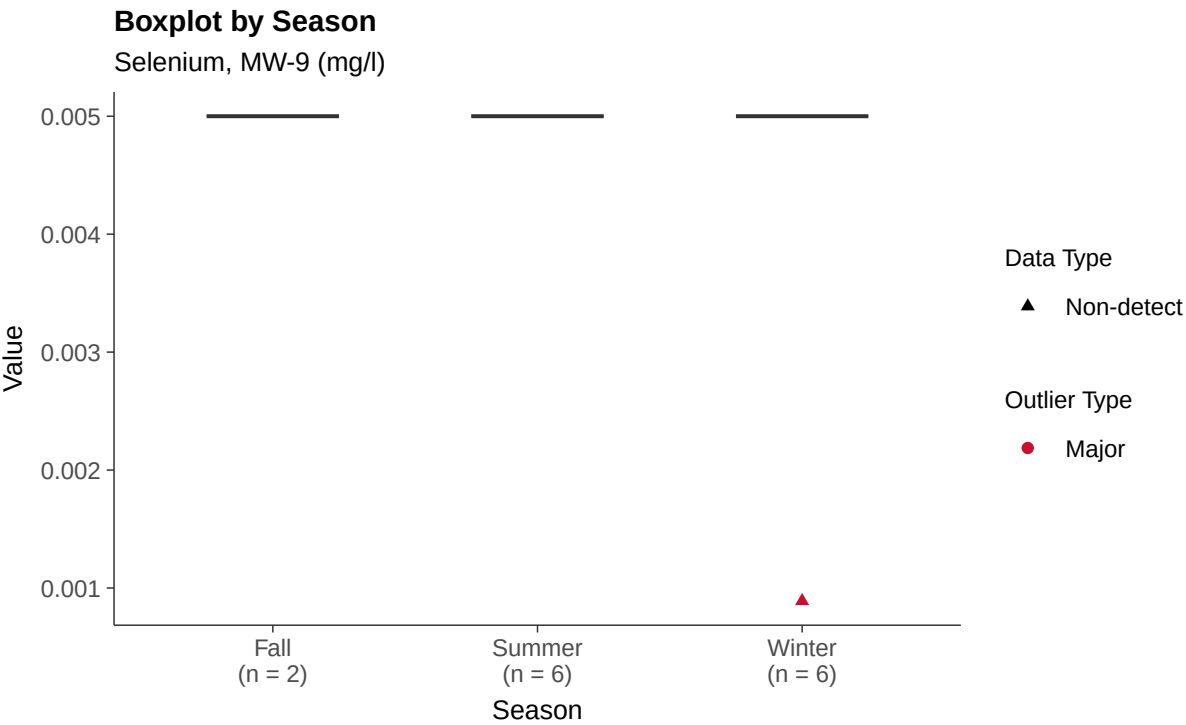
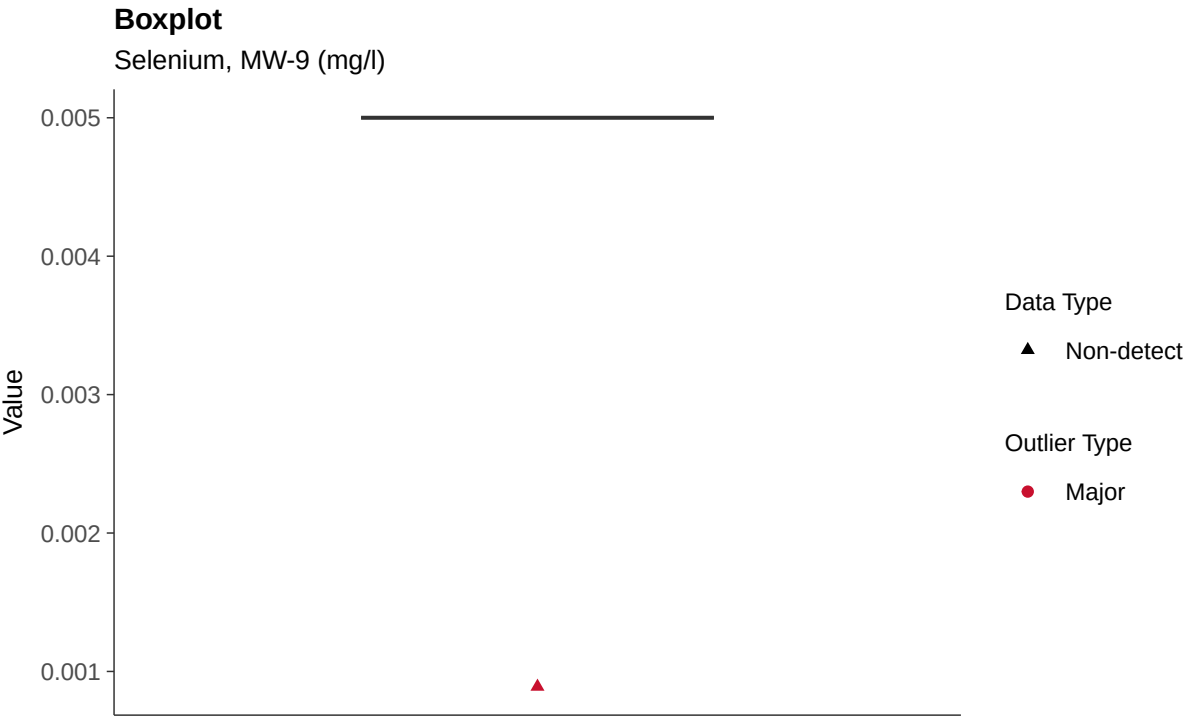




Trend Regression: Piecewise Linear-Linear-Linear
Radium-226+228, MW-9 (pci/l)



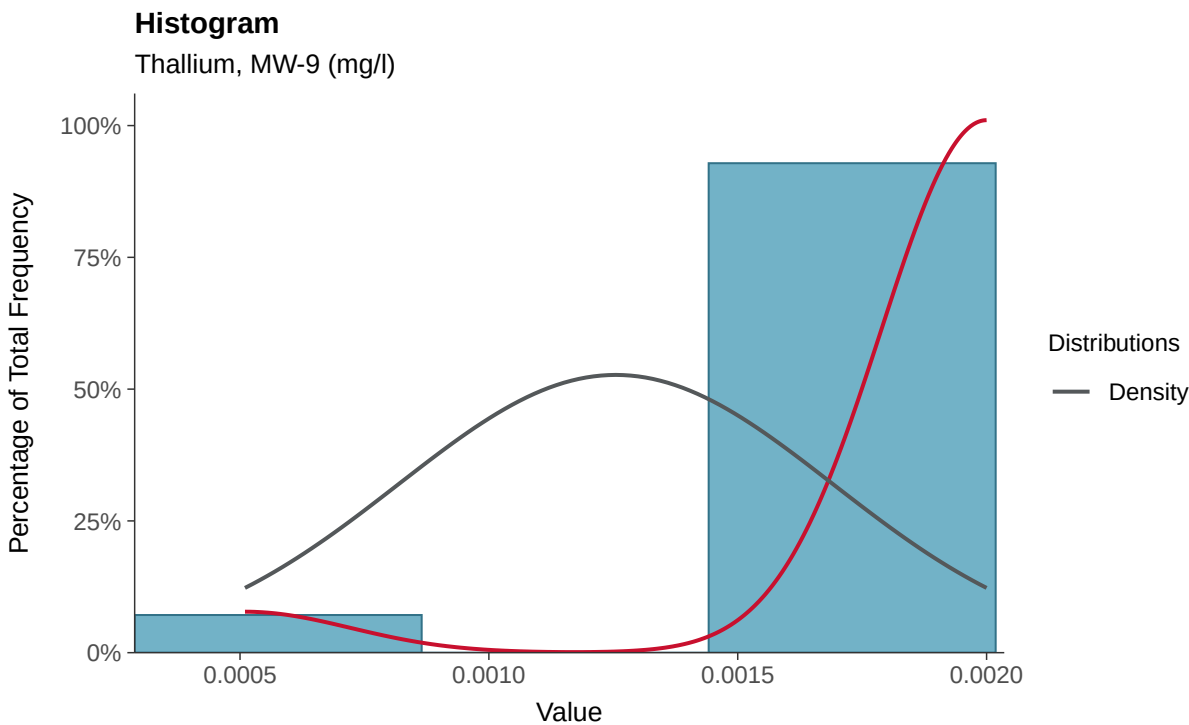
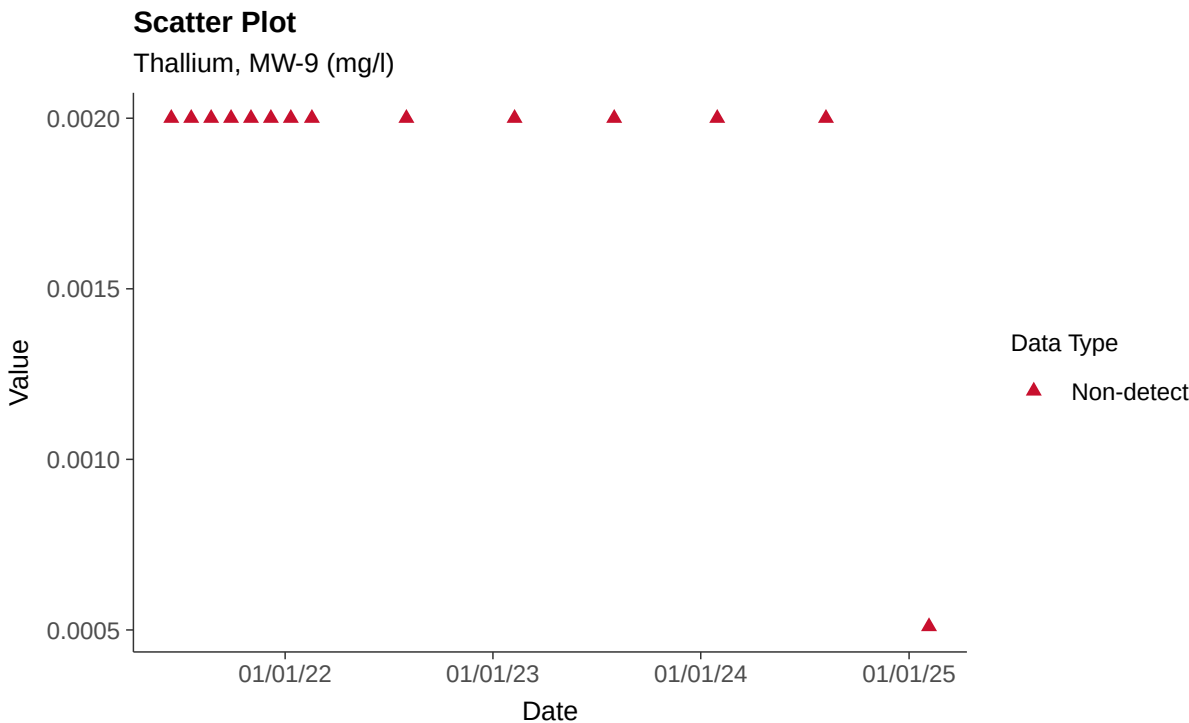


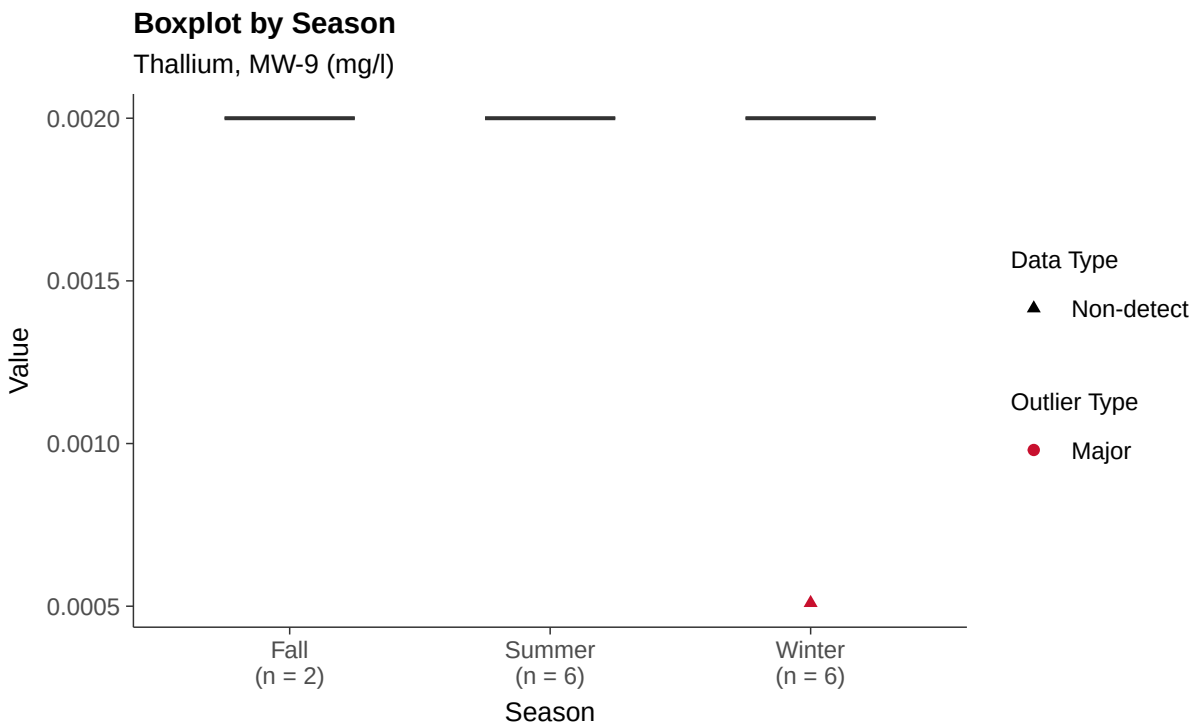
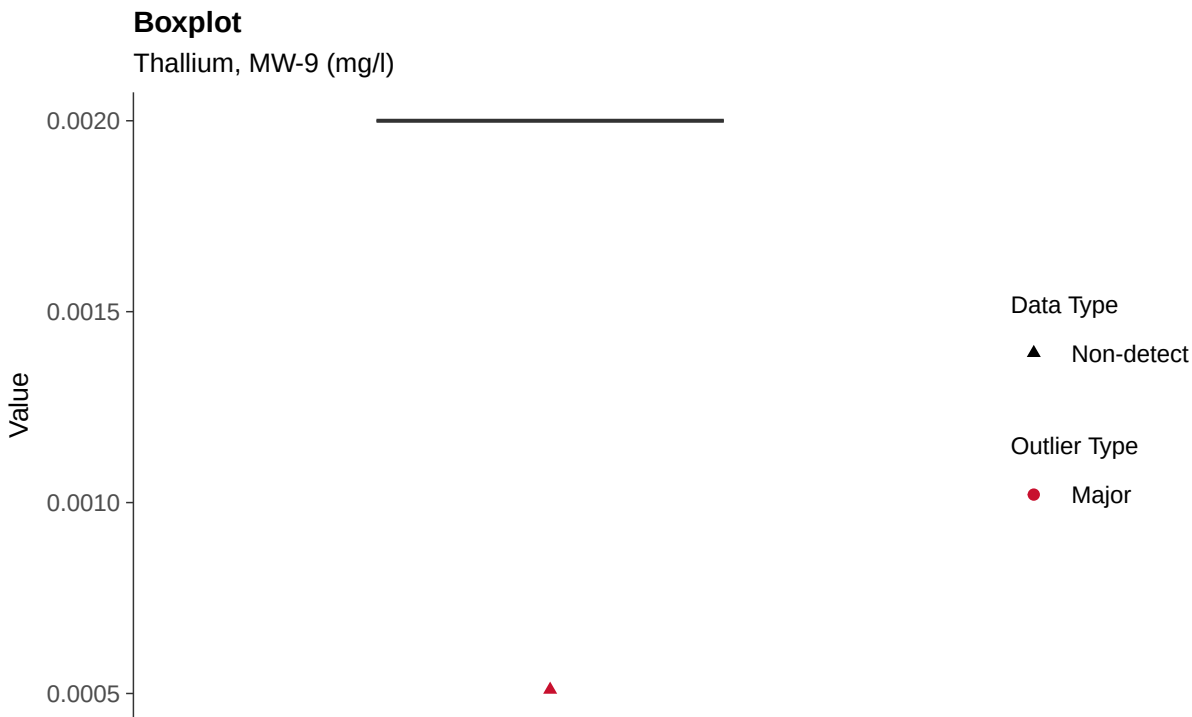


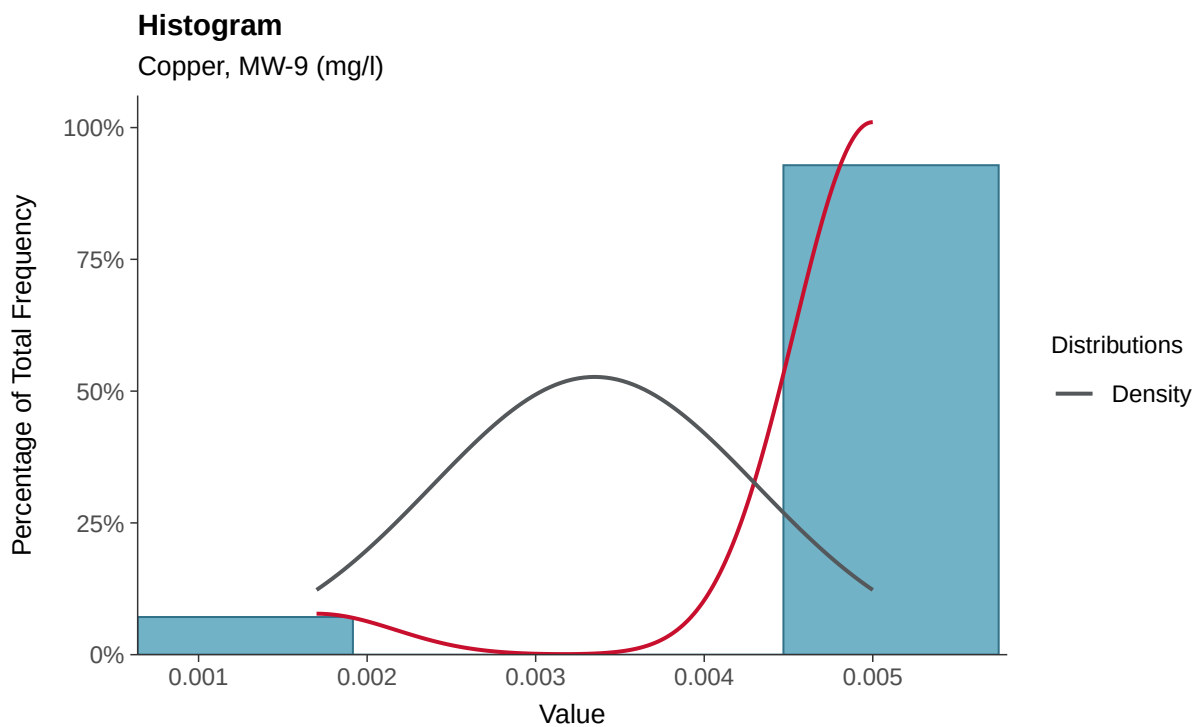


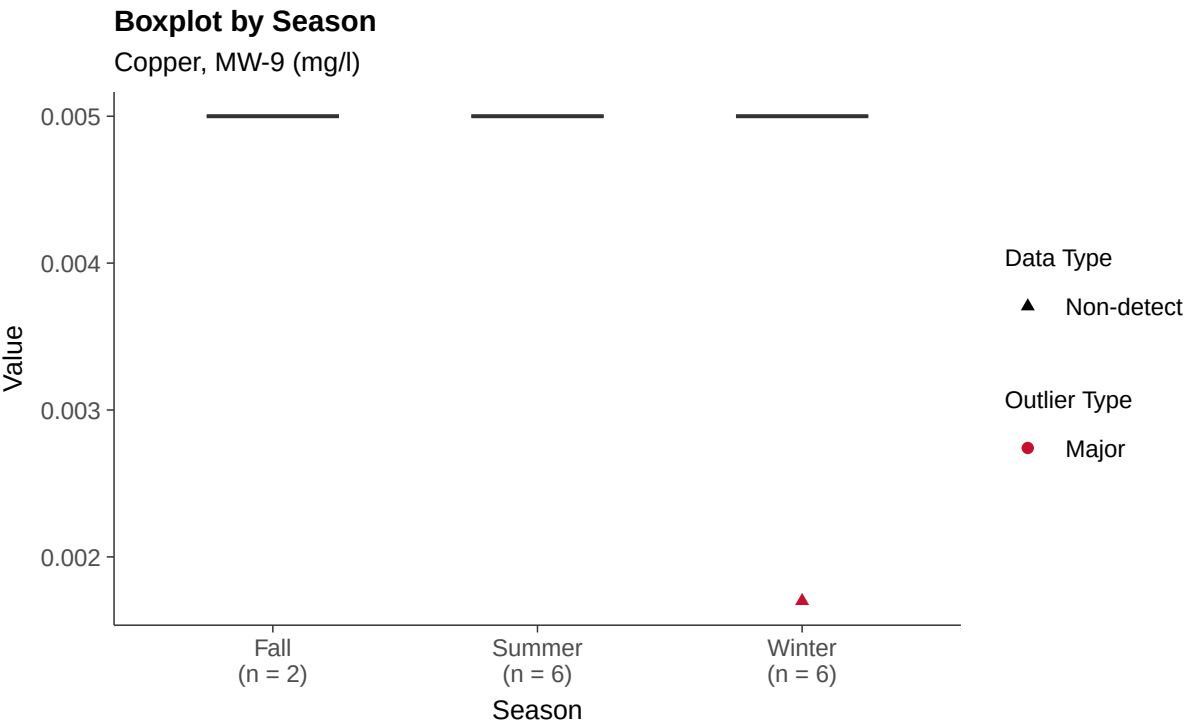
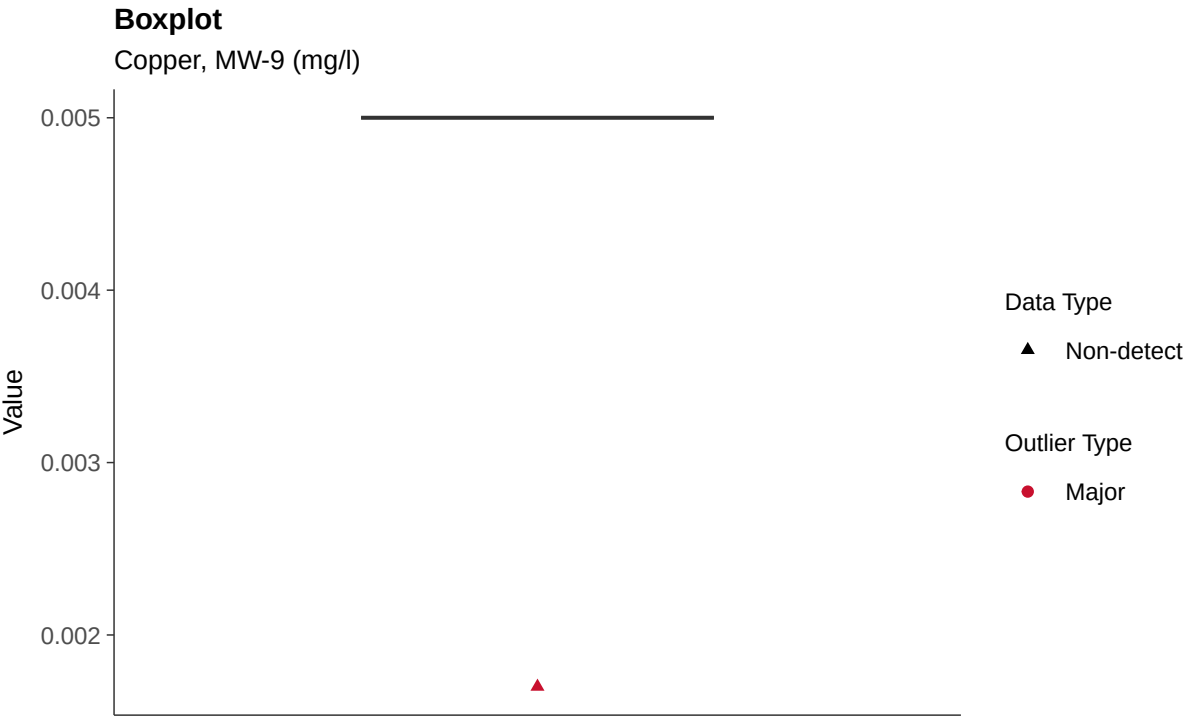
Appendix IV: Thallium, MW-9

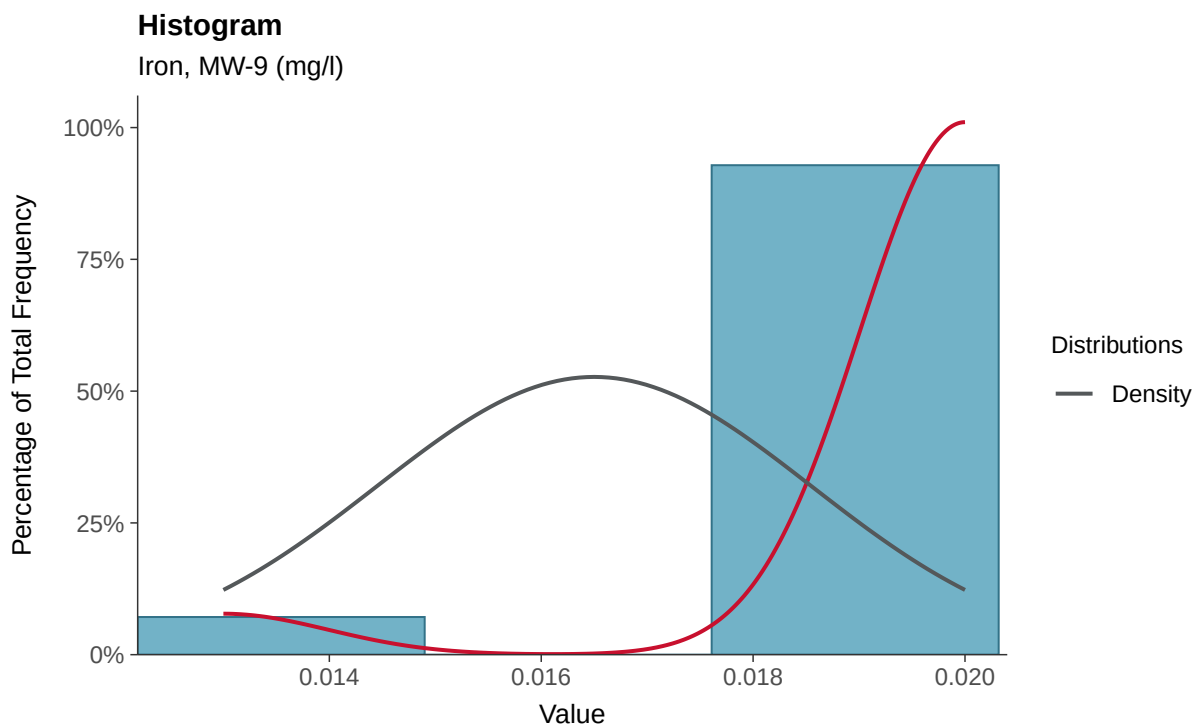
ID: 18_3_125

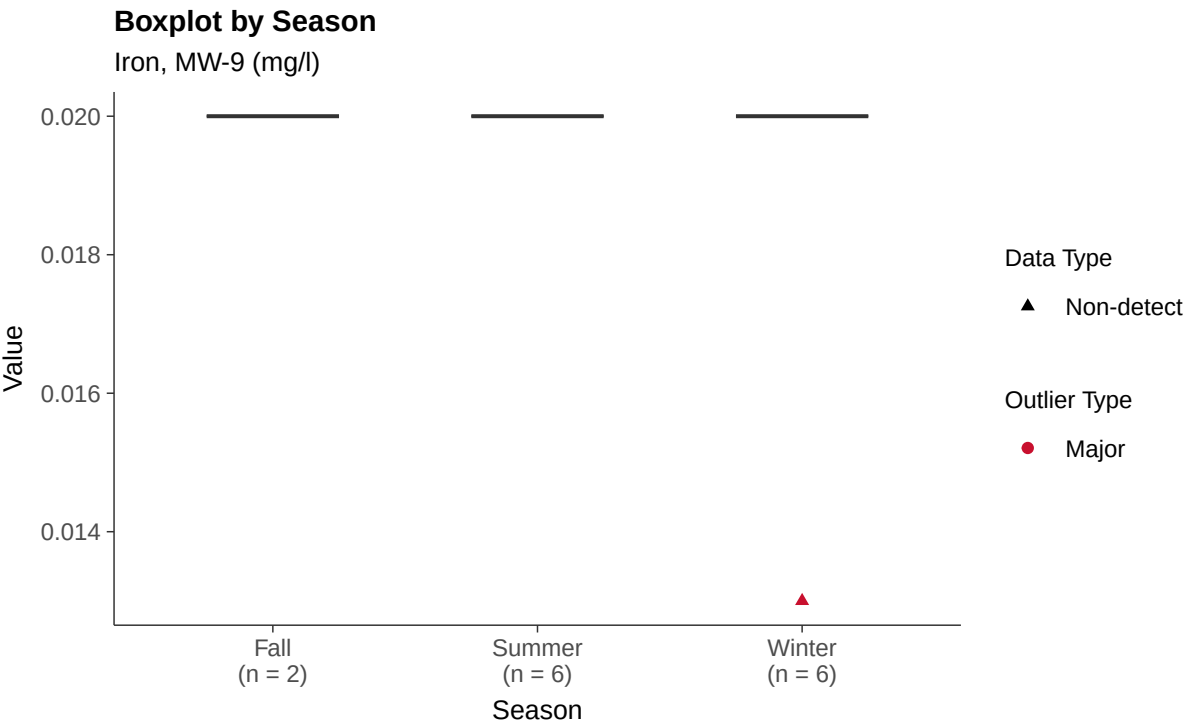
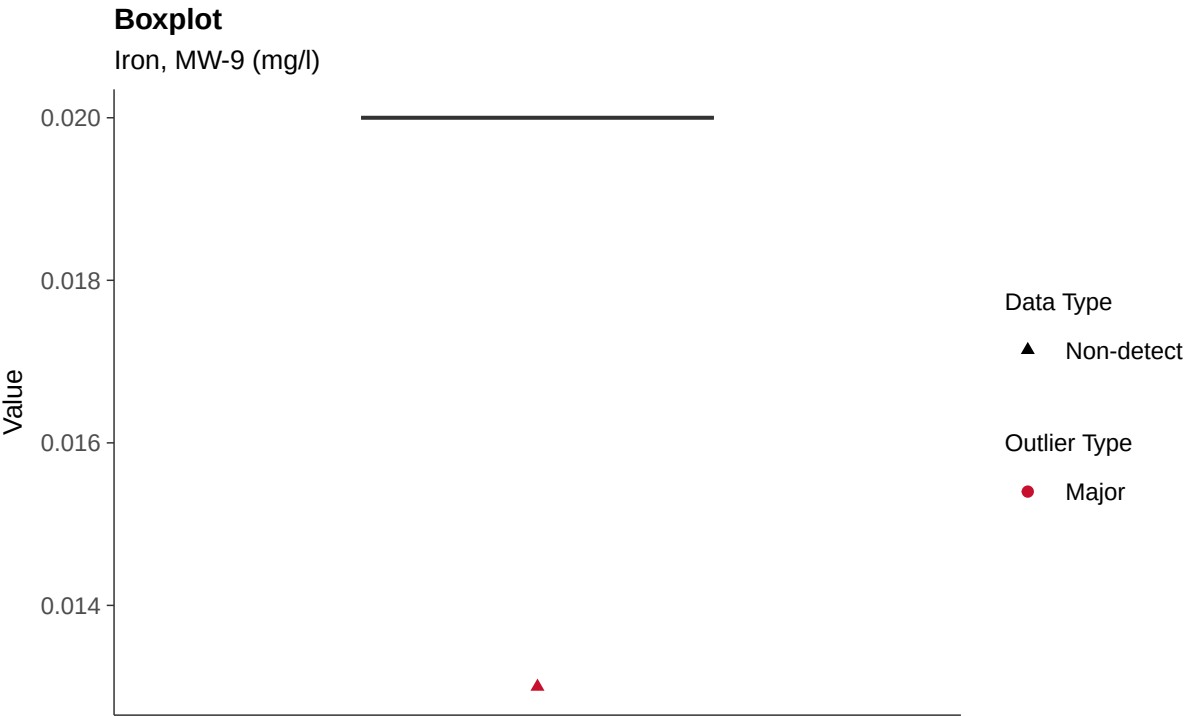


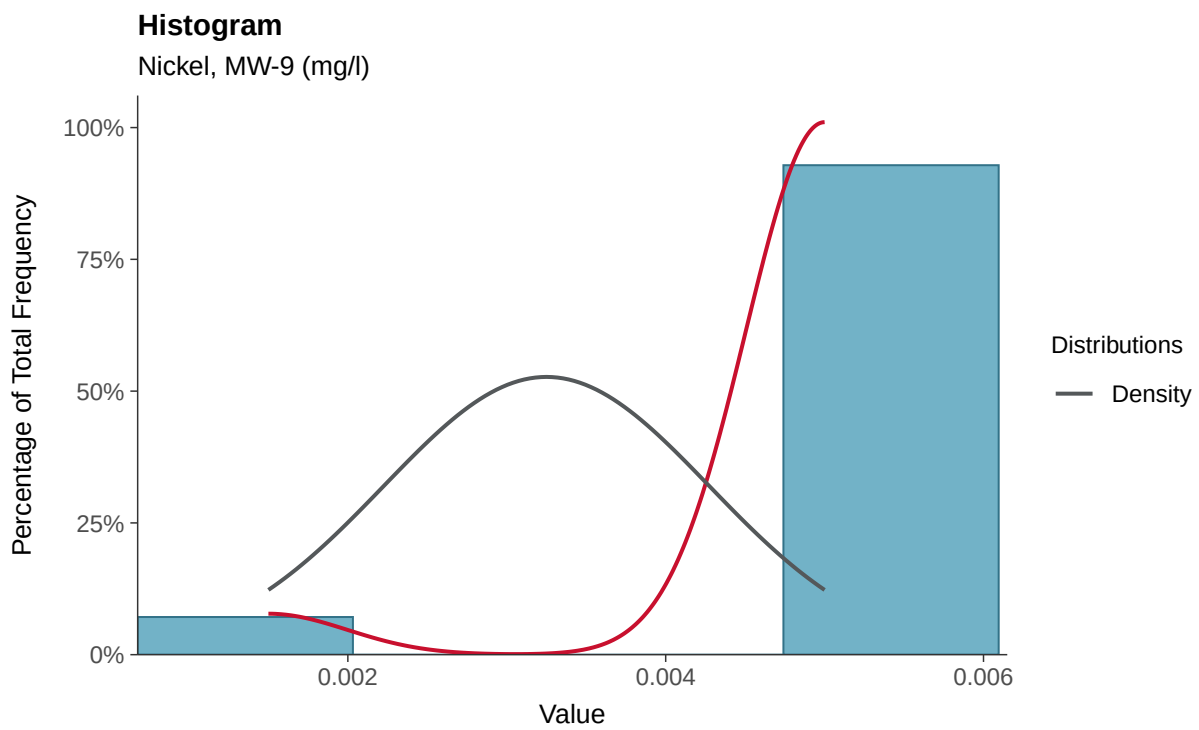


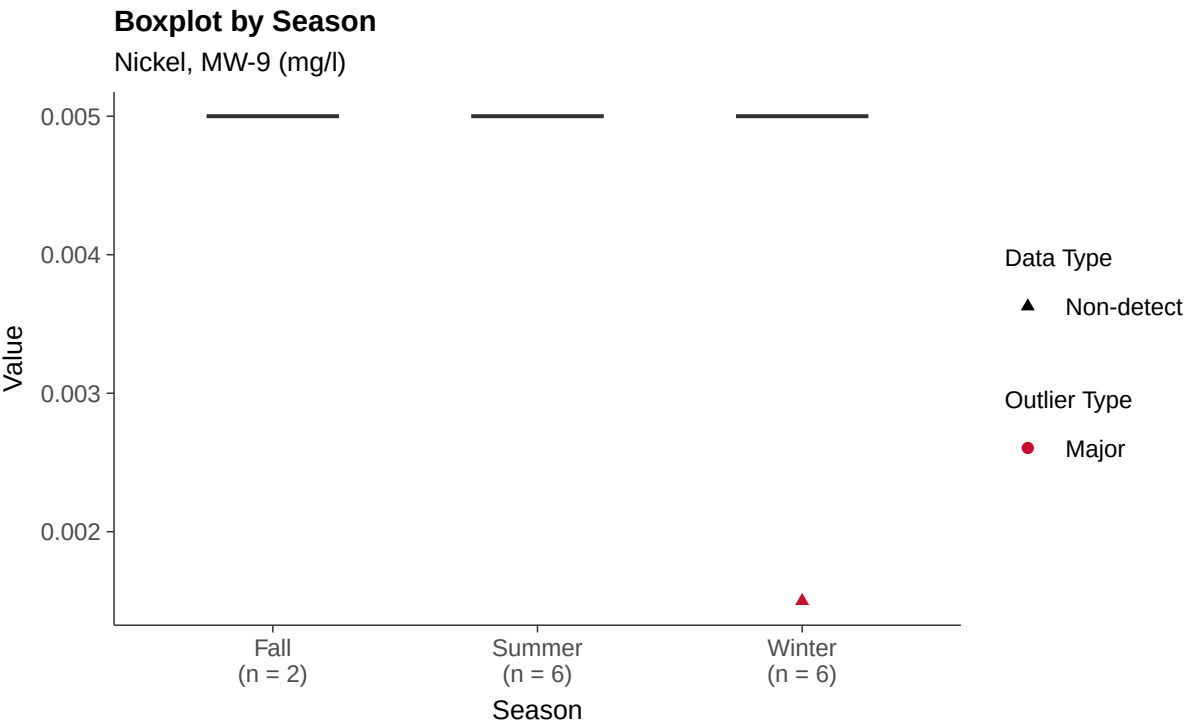
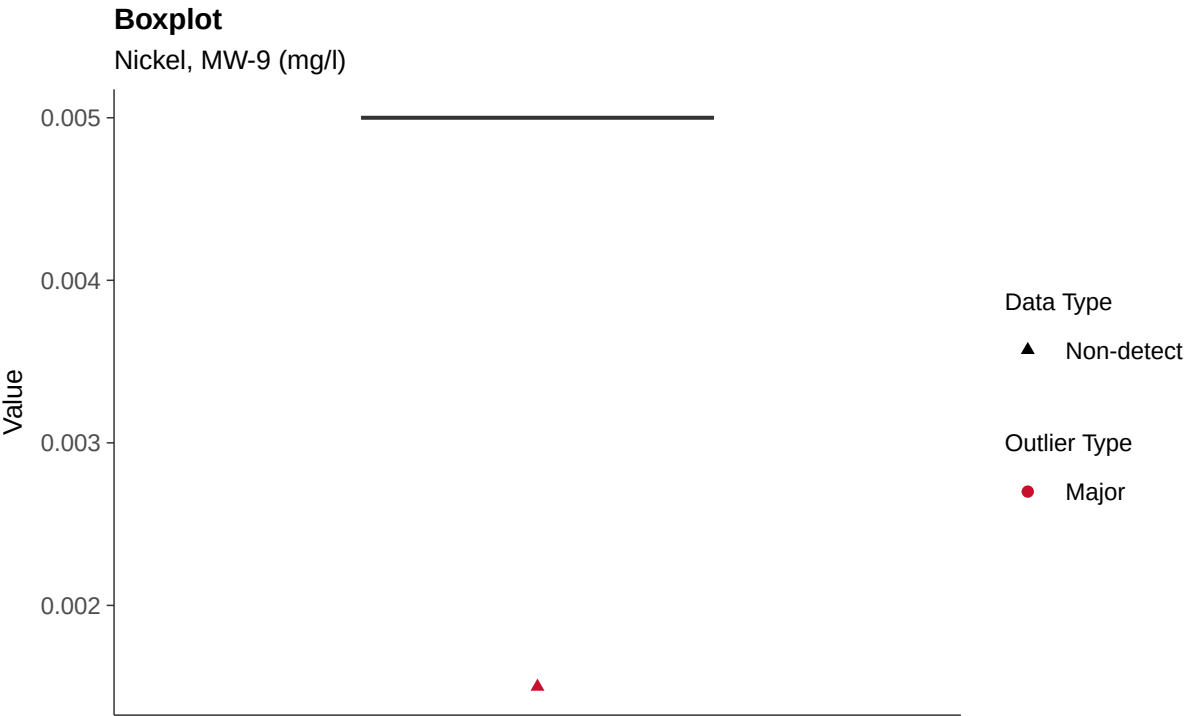








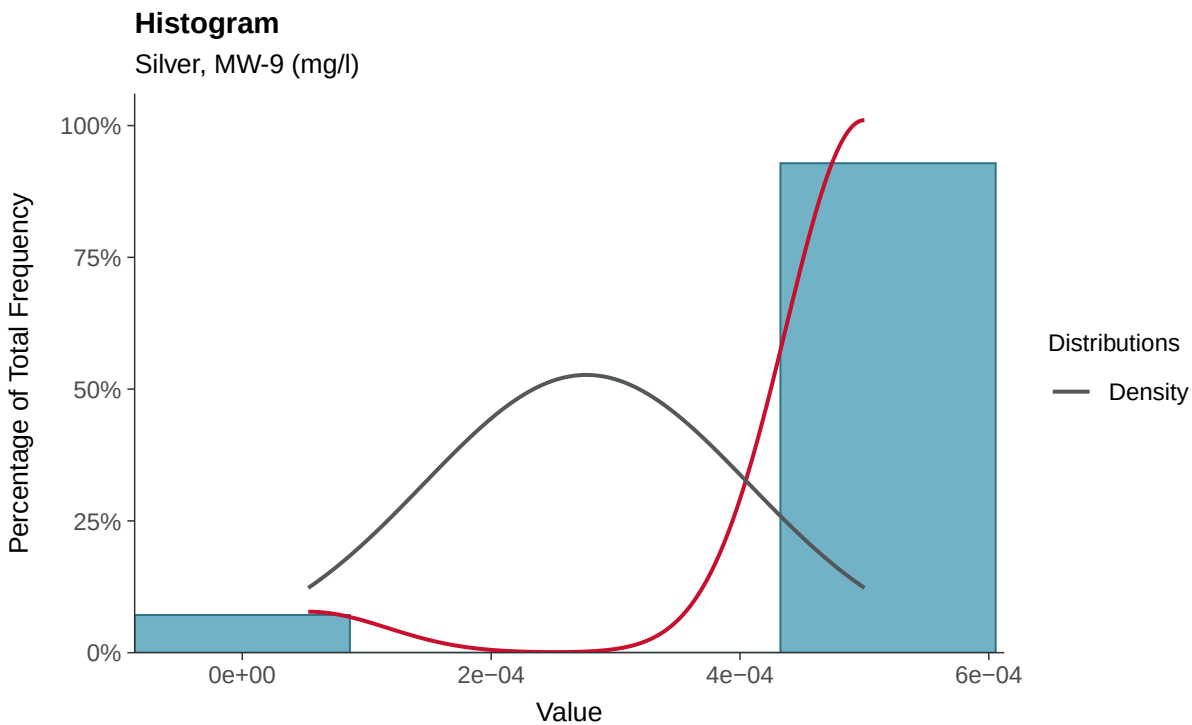
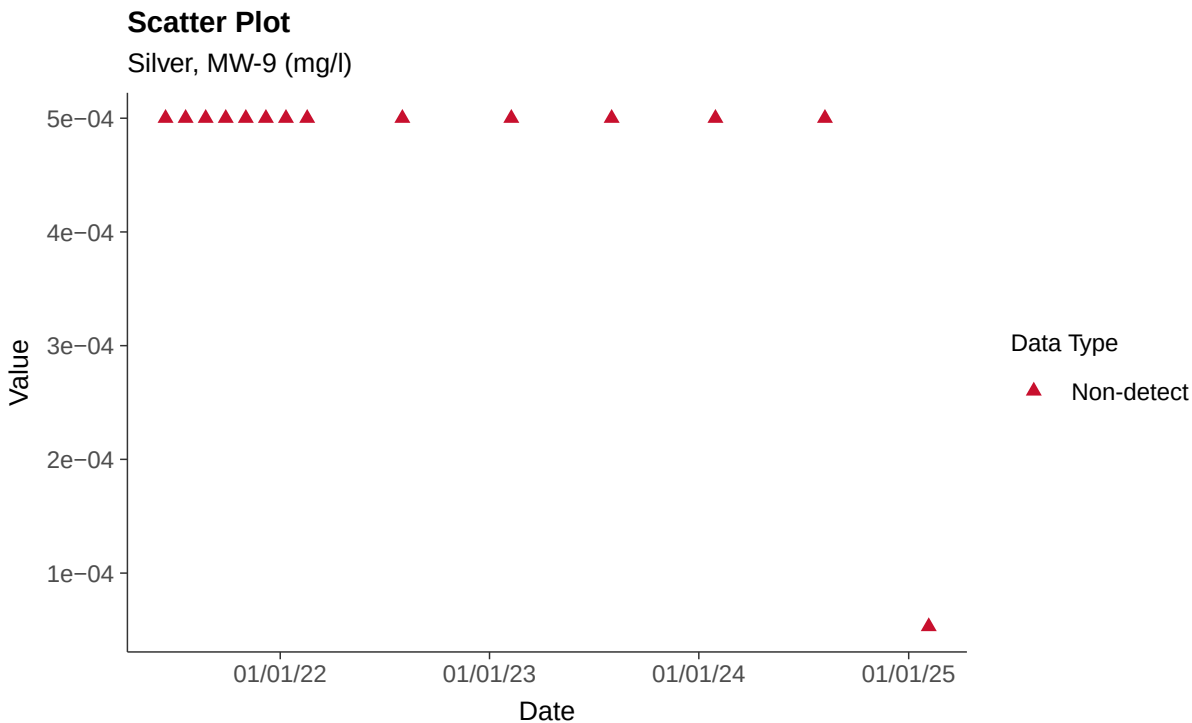


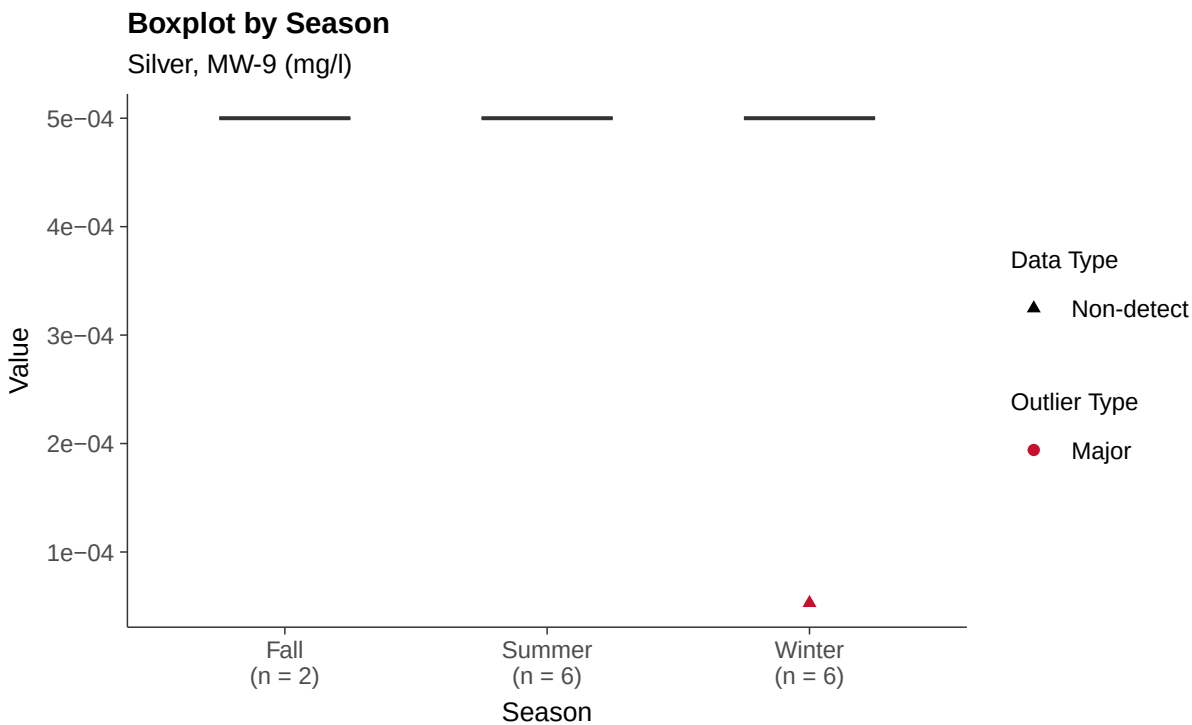
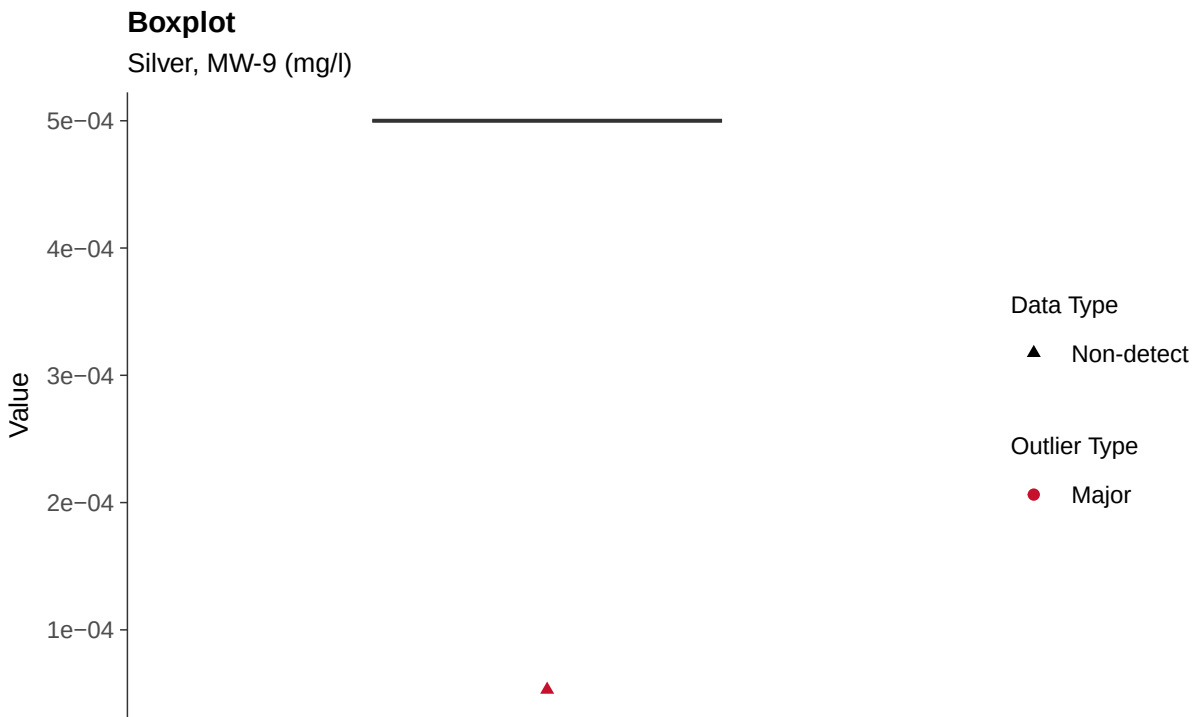




Part 115: Silver, MW-9

ID: 18_5_123

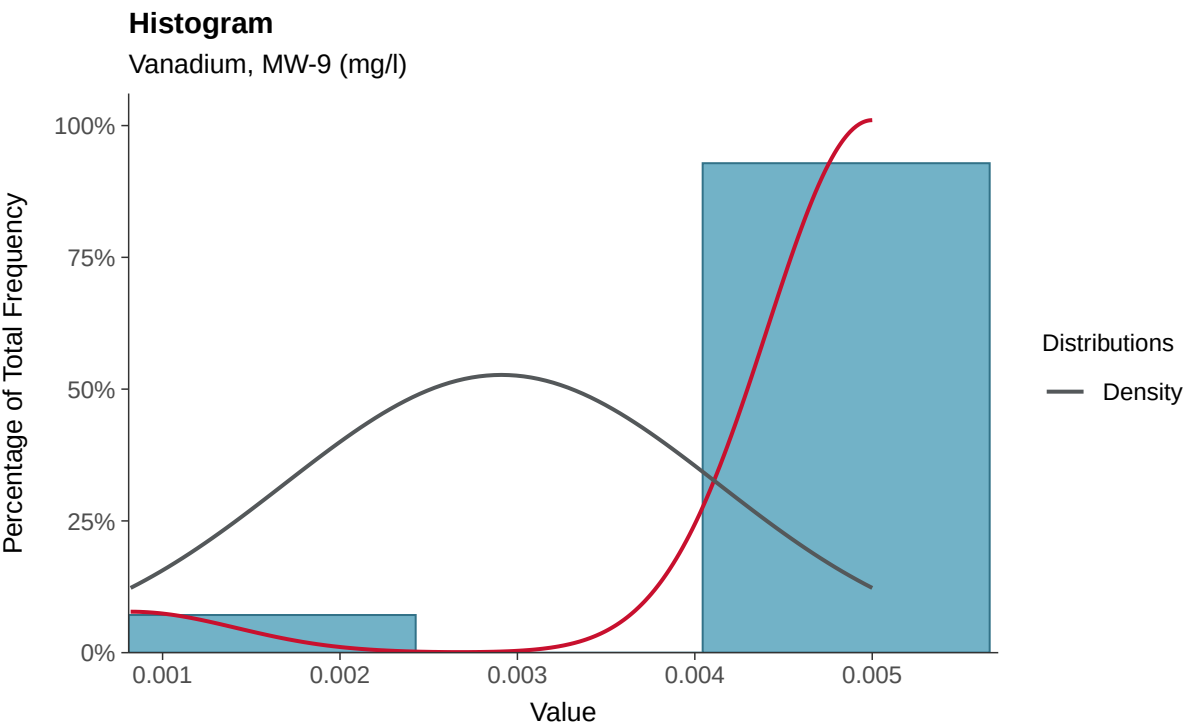
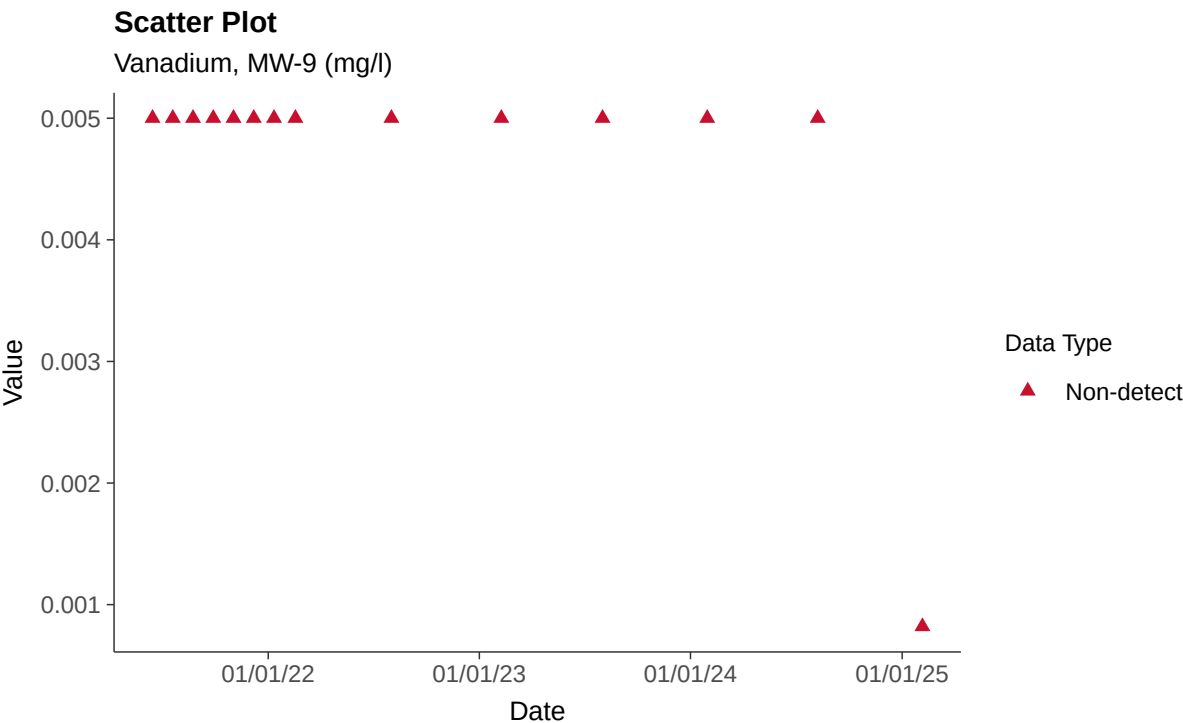


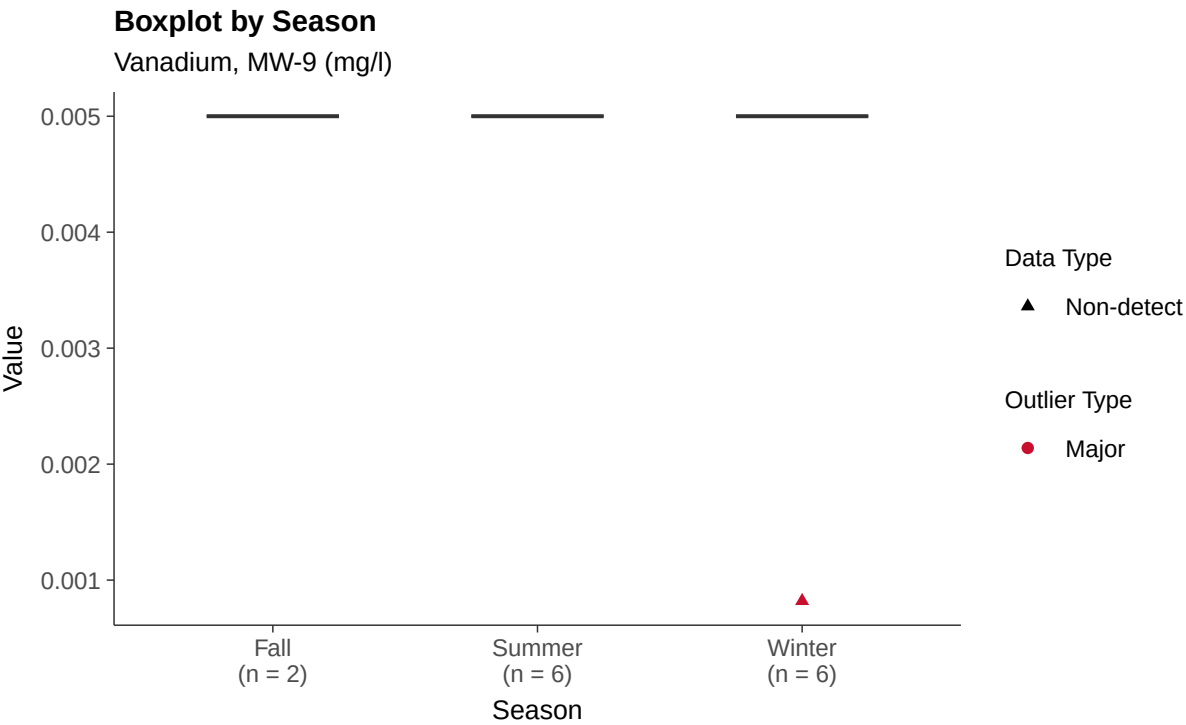
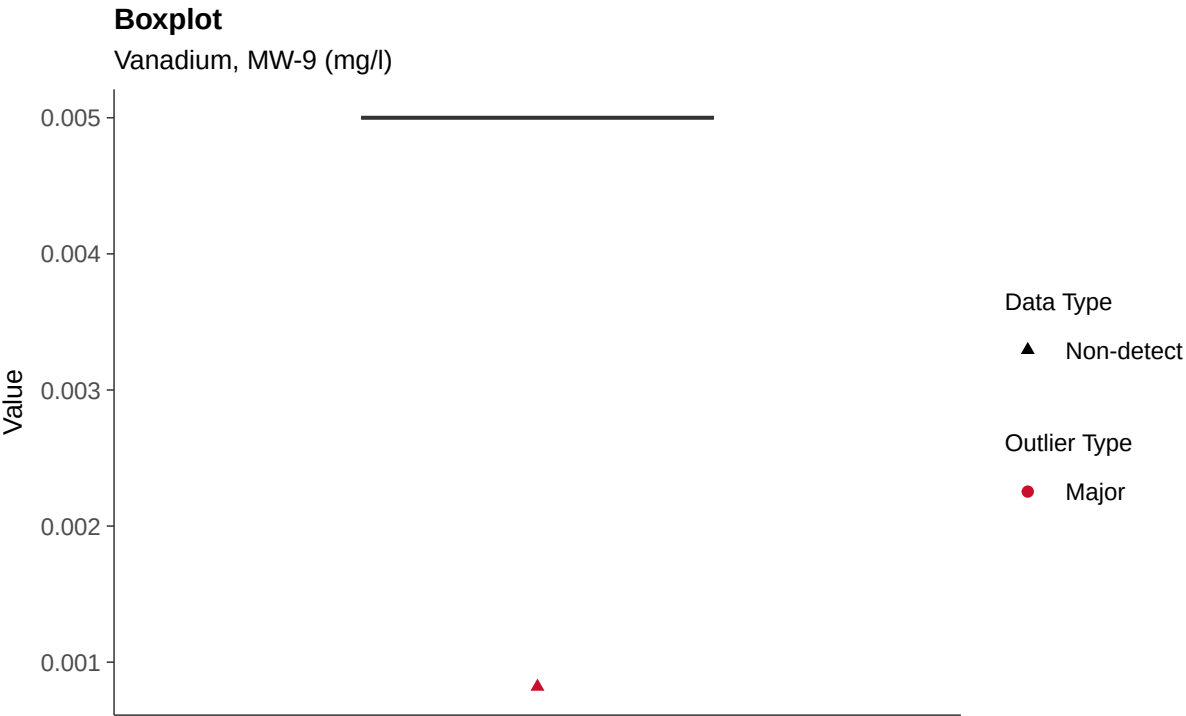




Part 115: Vanadium, MW-9

ID: 18_5_128

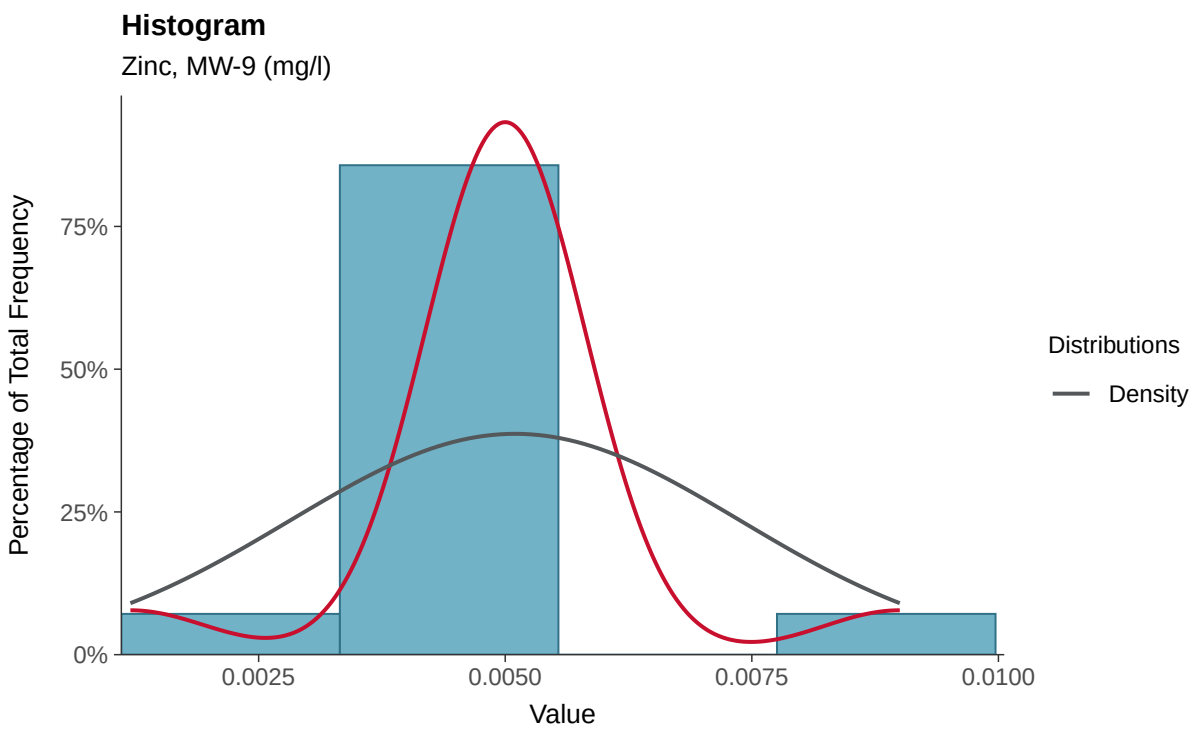
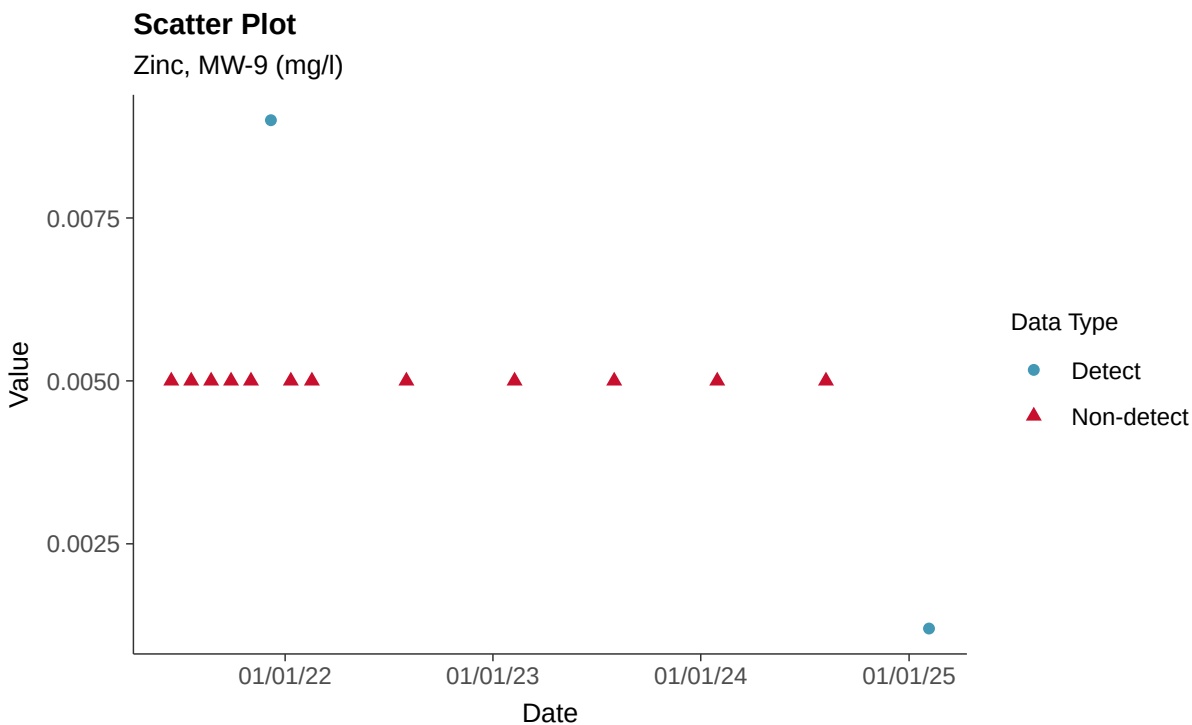


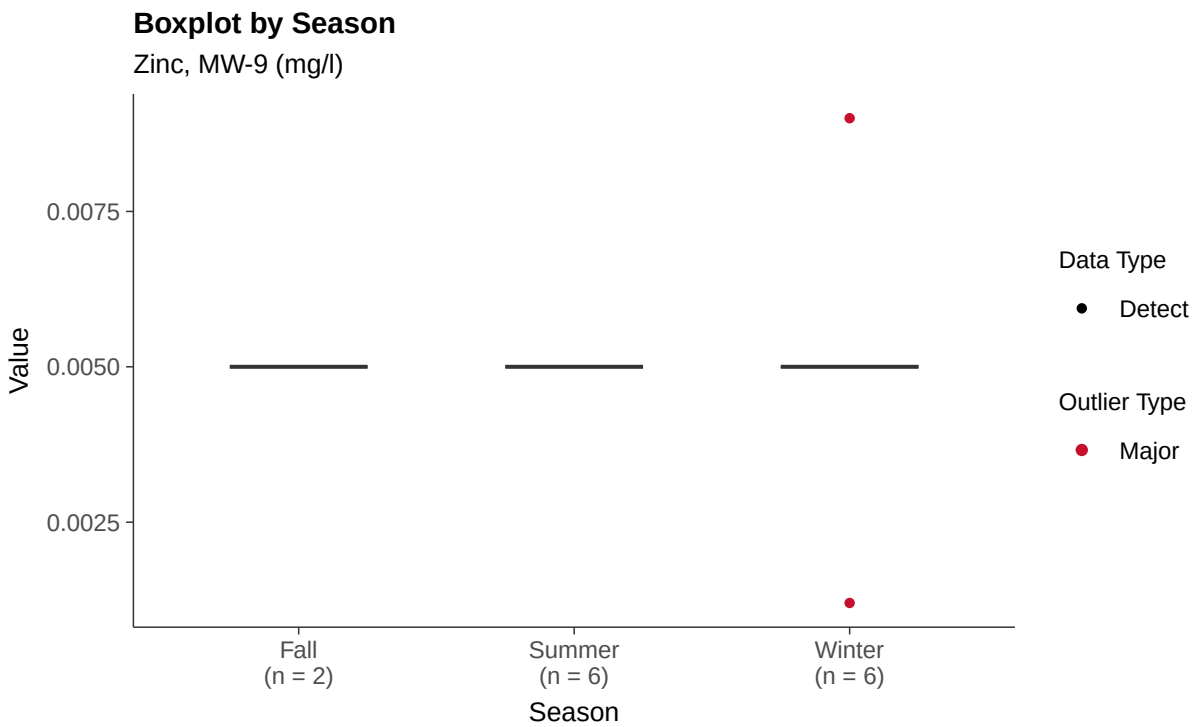
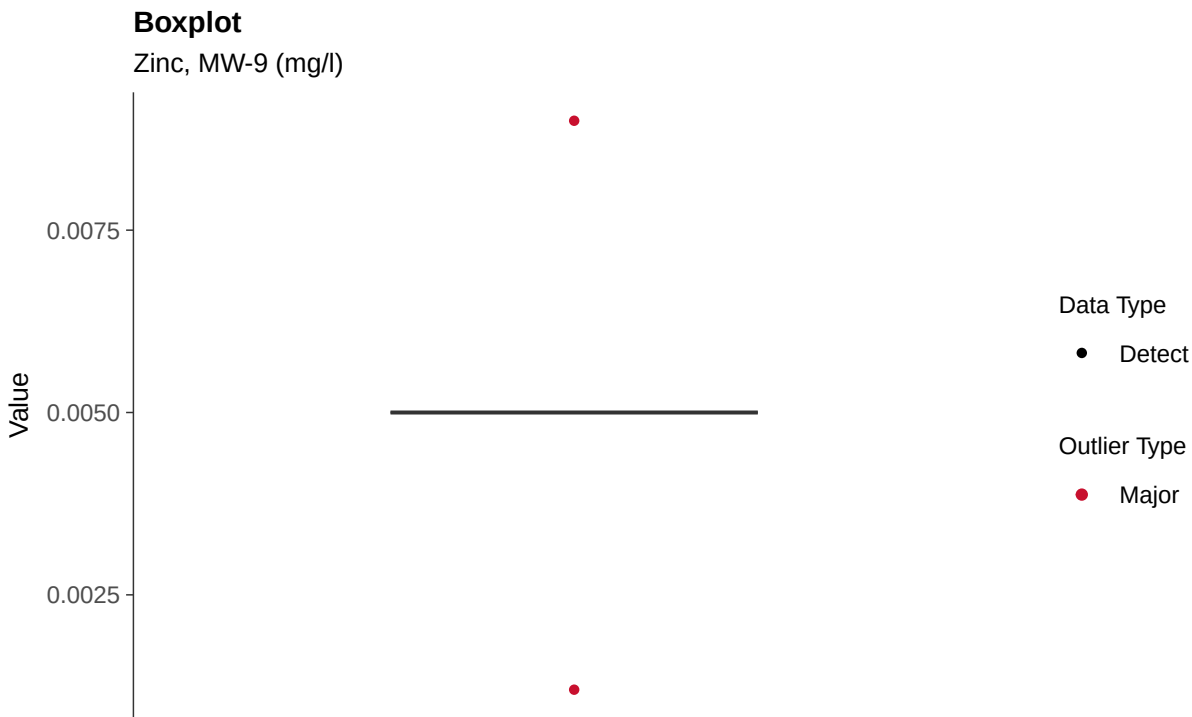


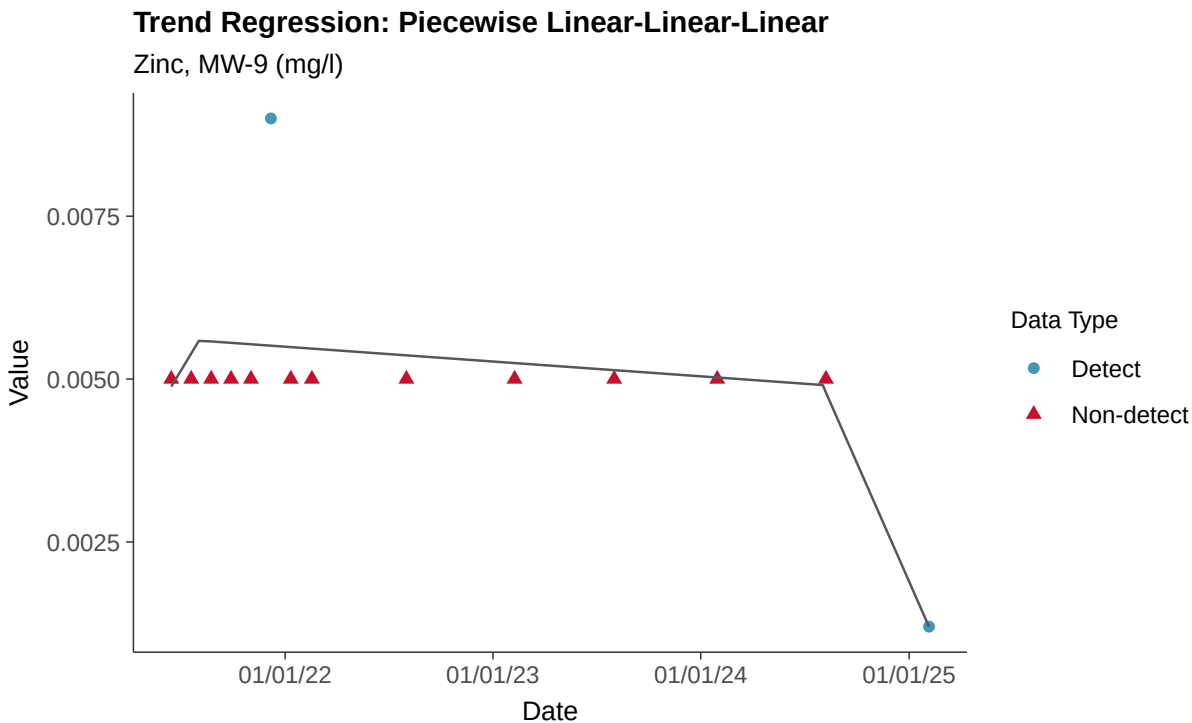
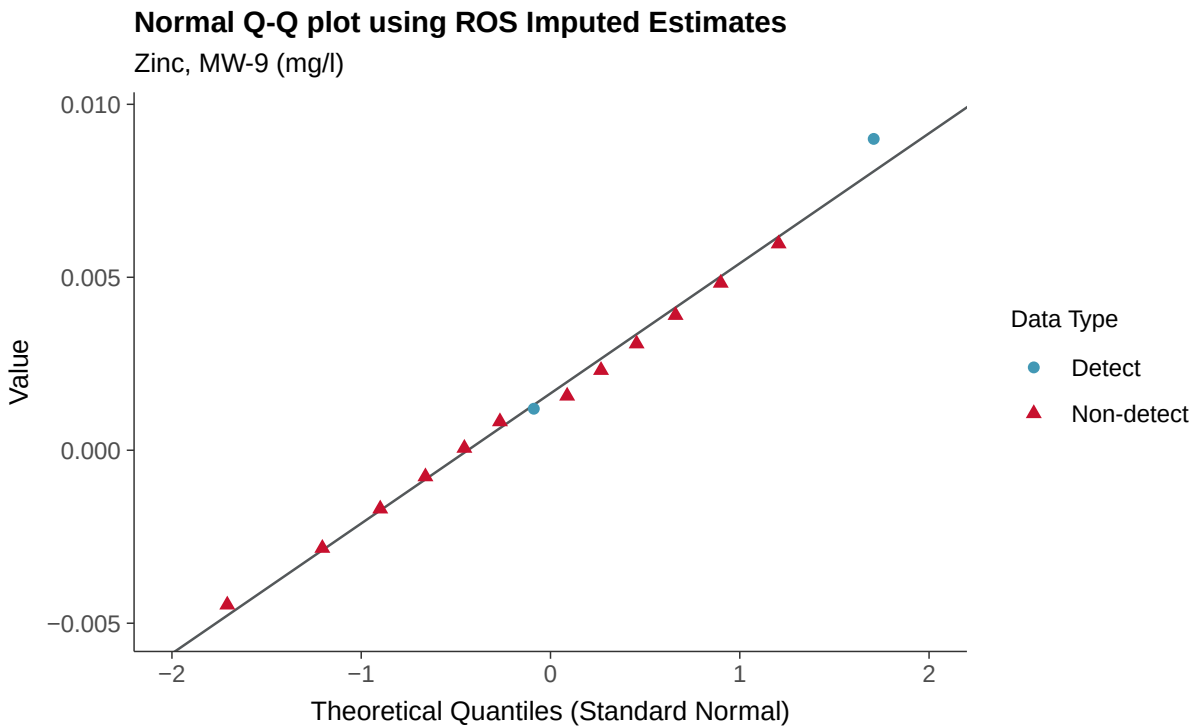


Part 115: Zinc, MW-9

ID: 18_5_129



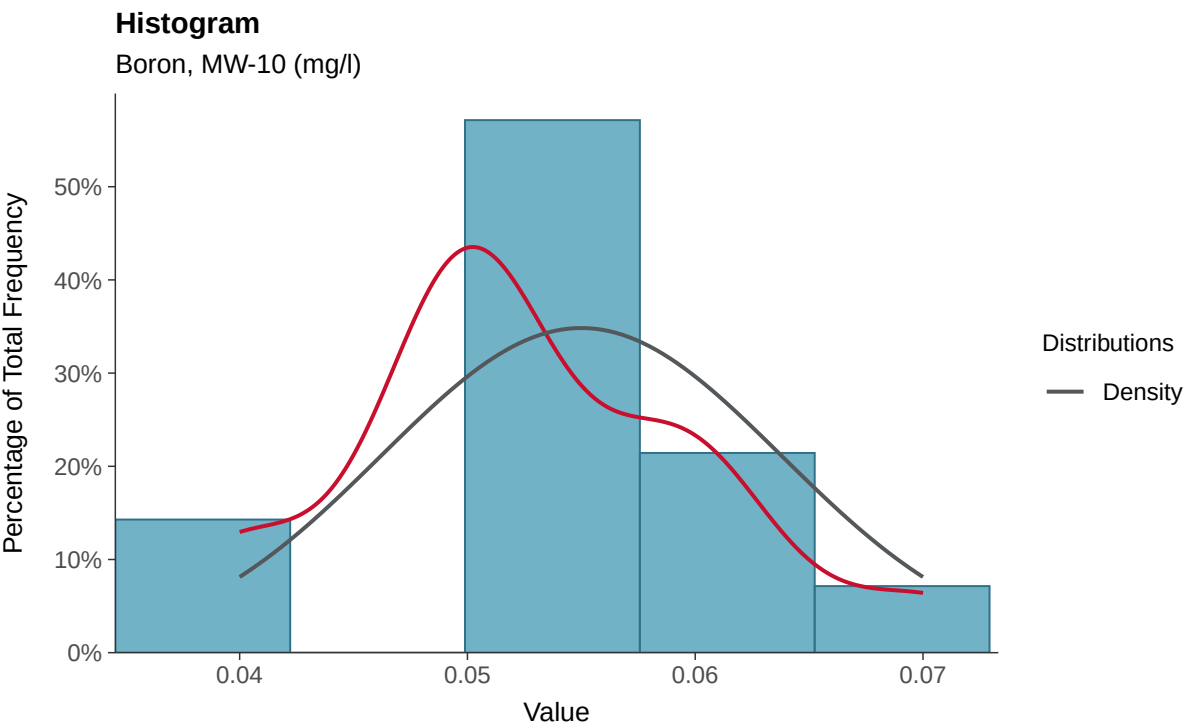
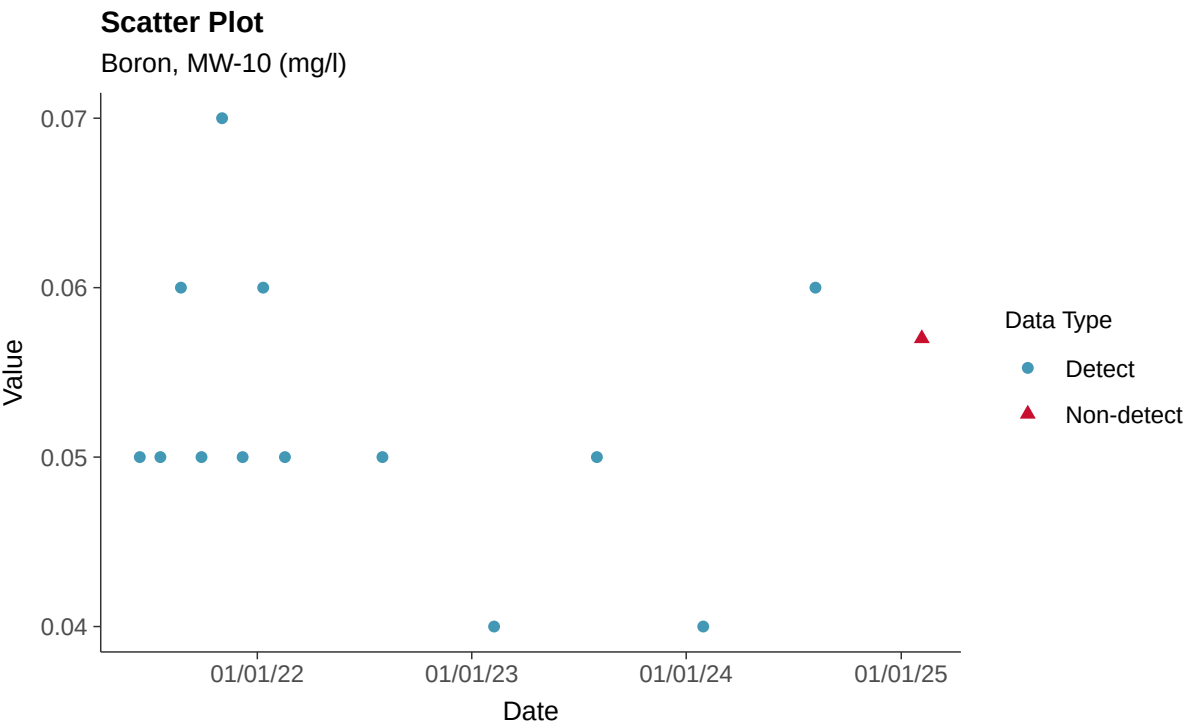


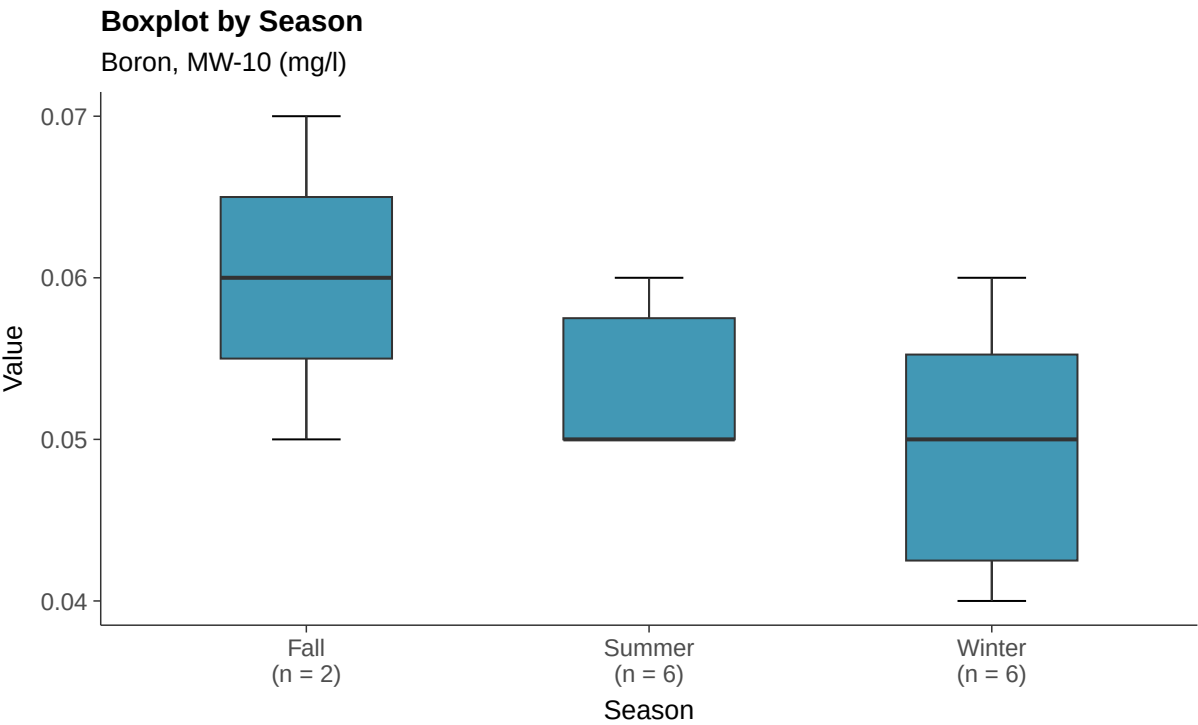
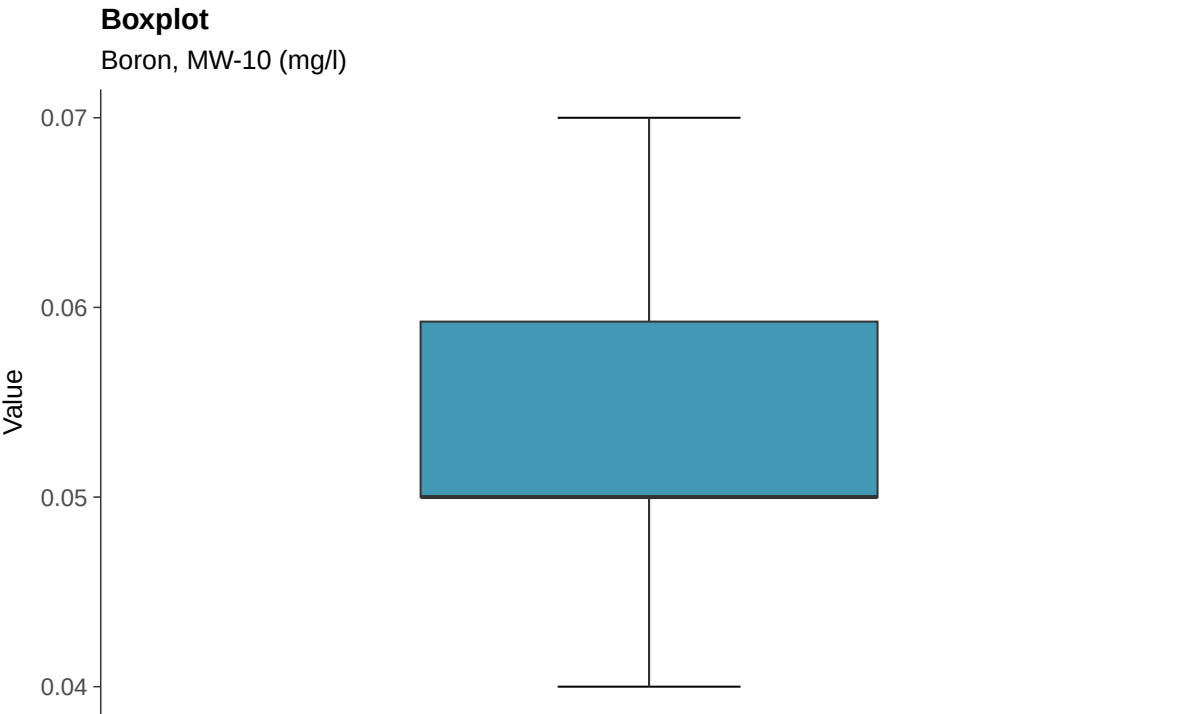




Appendix III: Boron, MW-10

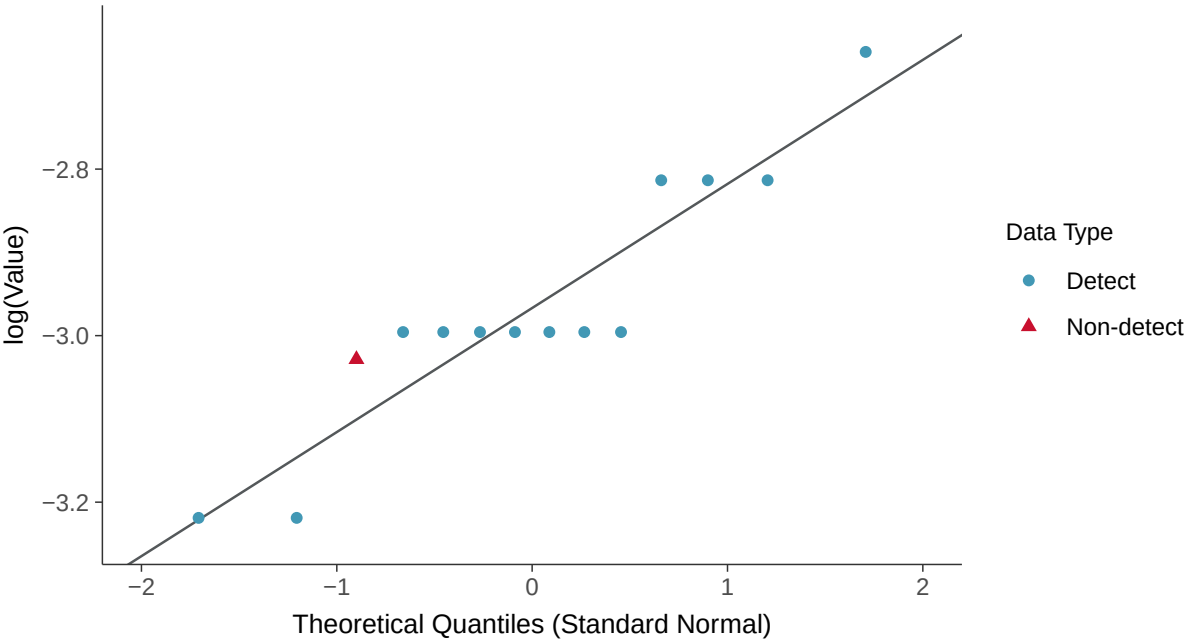
ID: 19_2_105



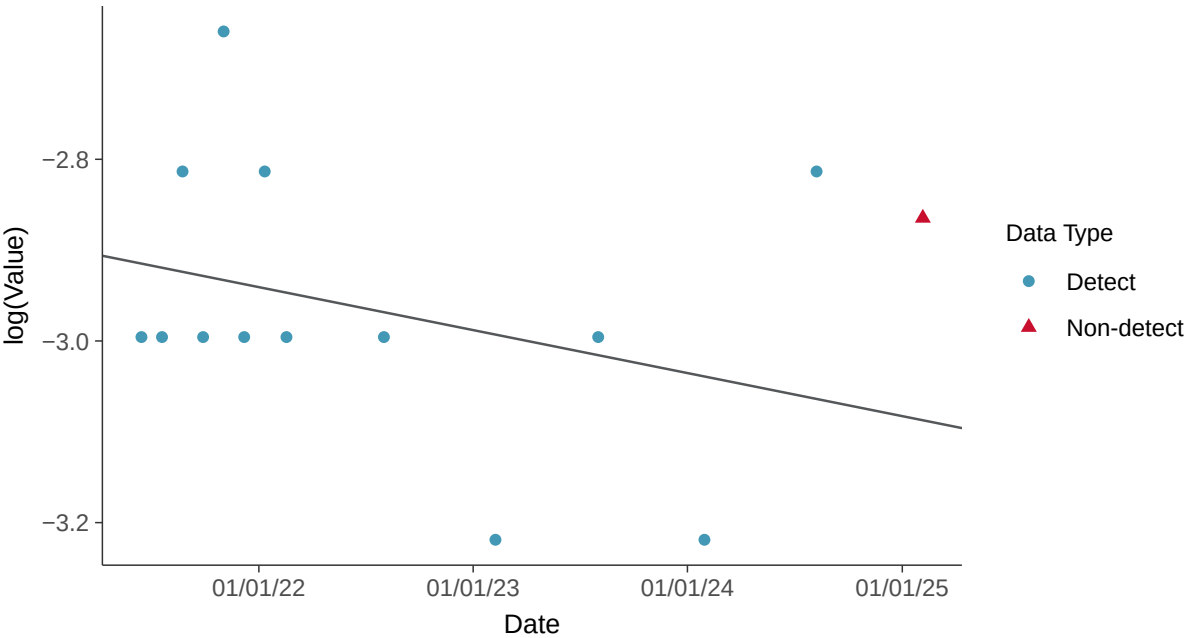


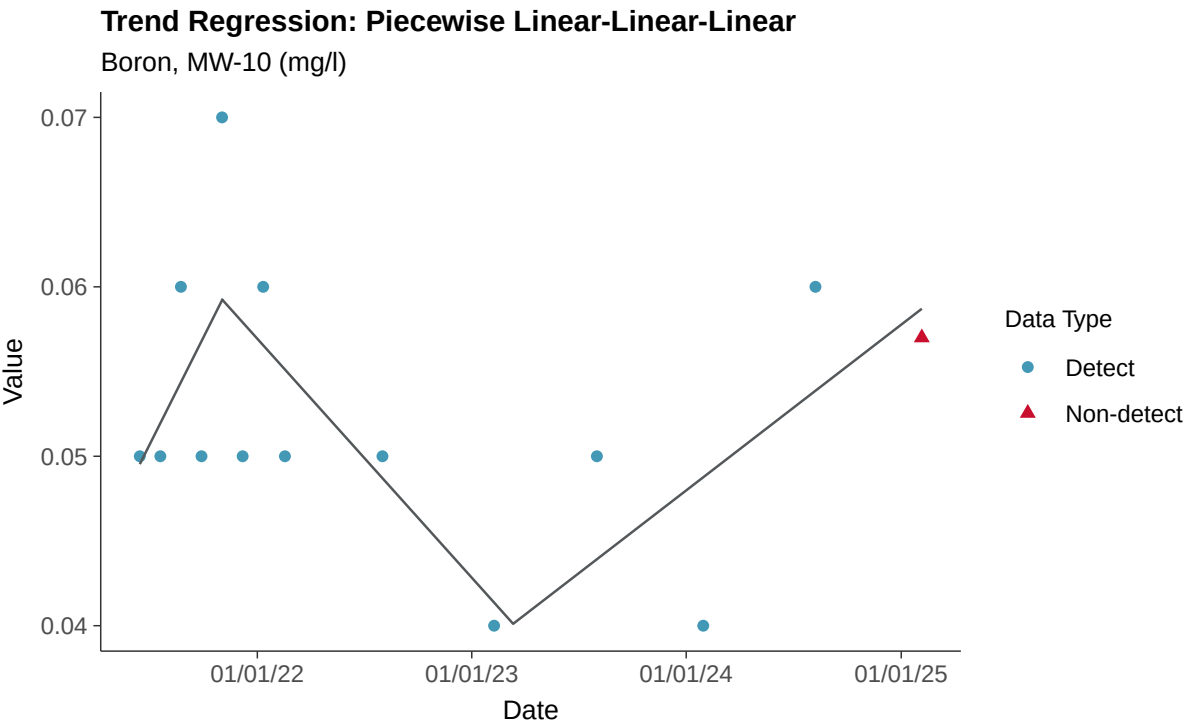
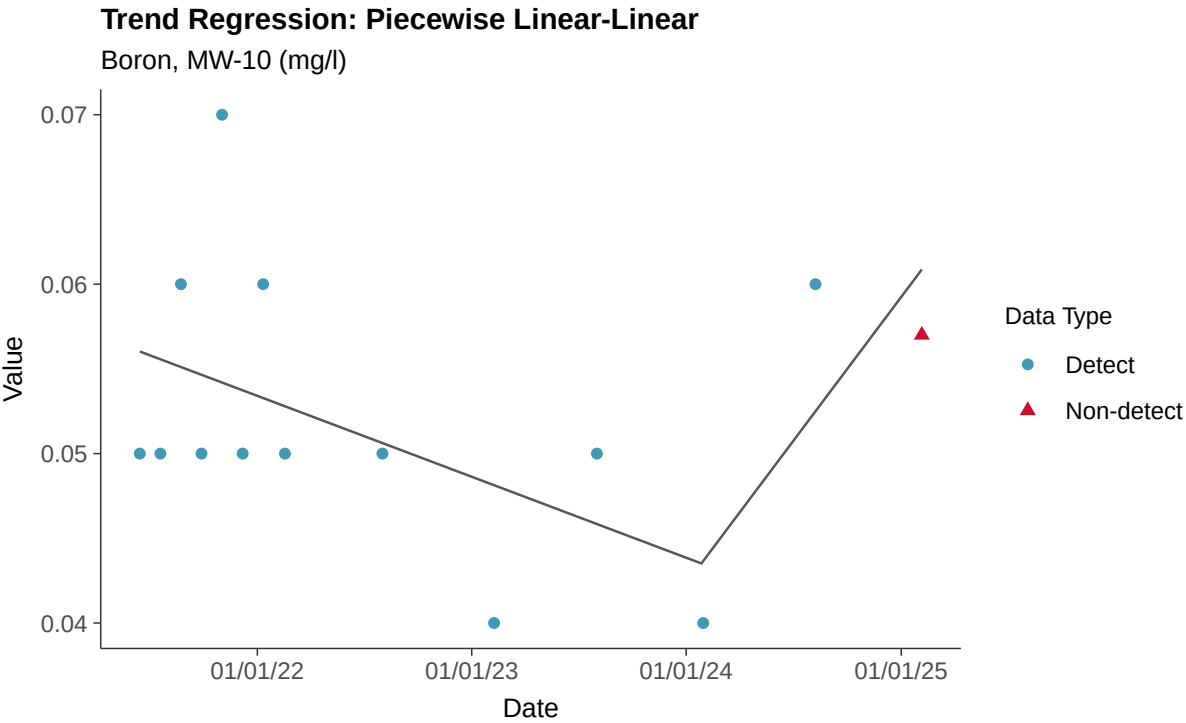


Lognormal Q-Q plot using ROS Imputed Estimates
Boron, MW-10 (mg/l)



Trend Regression: Lognormal MLE
Boron, MW-10 (mg/l)

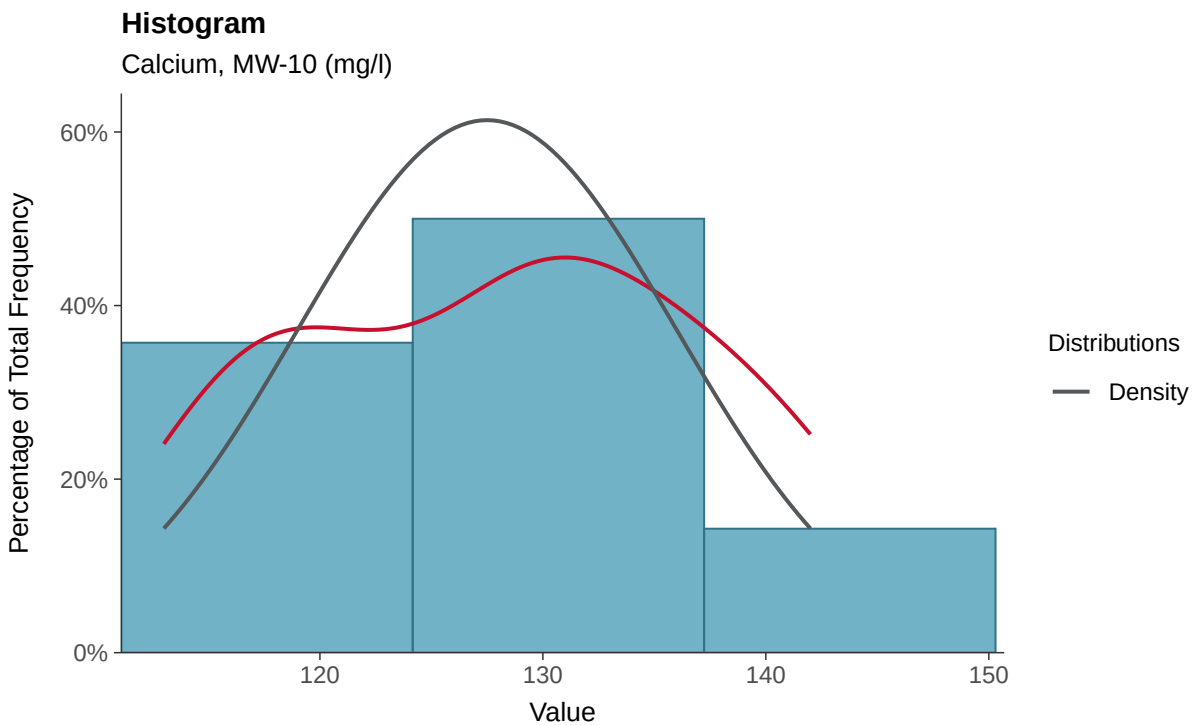
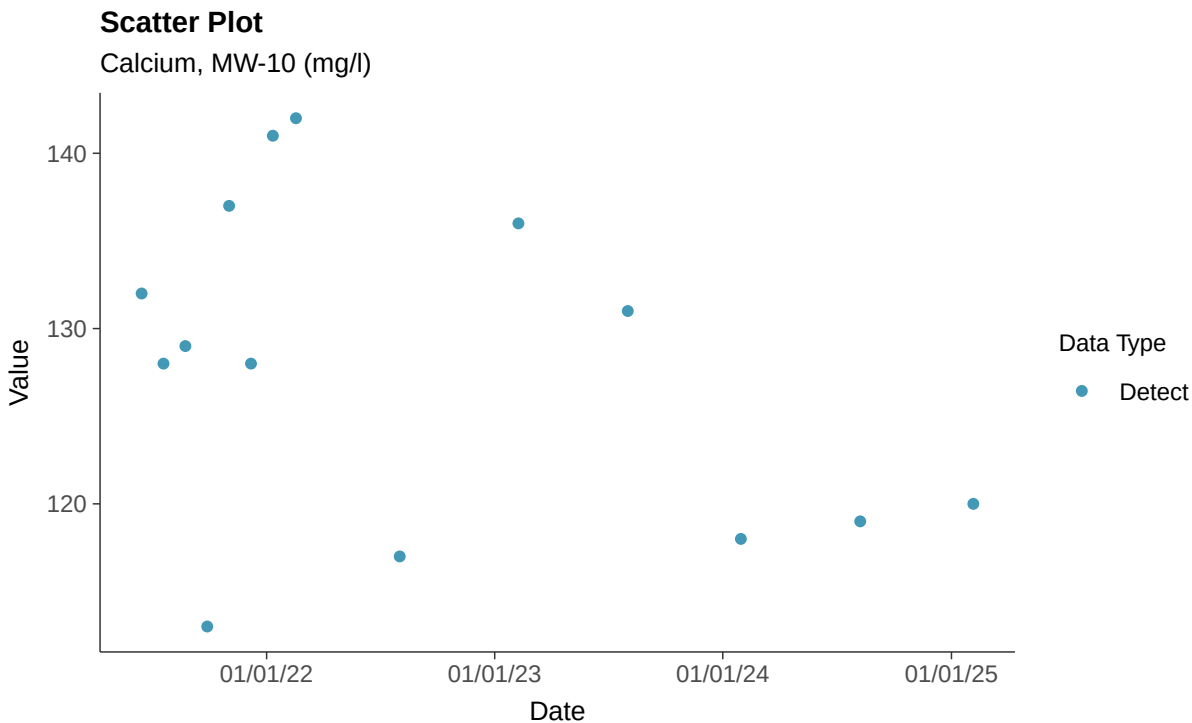


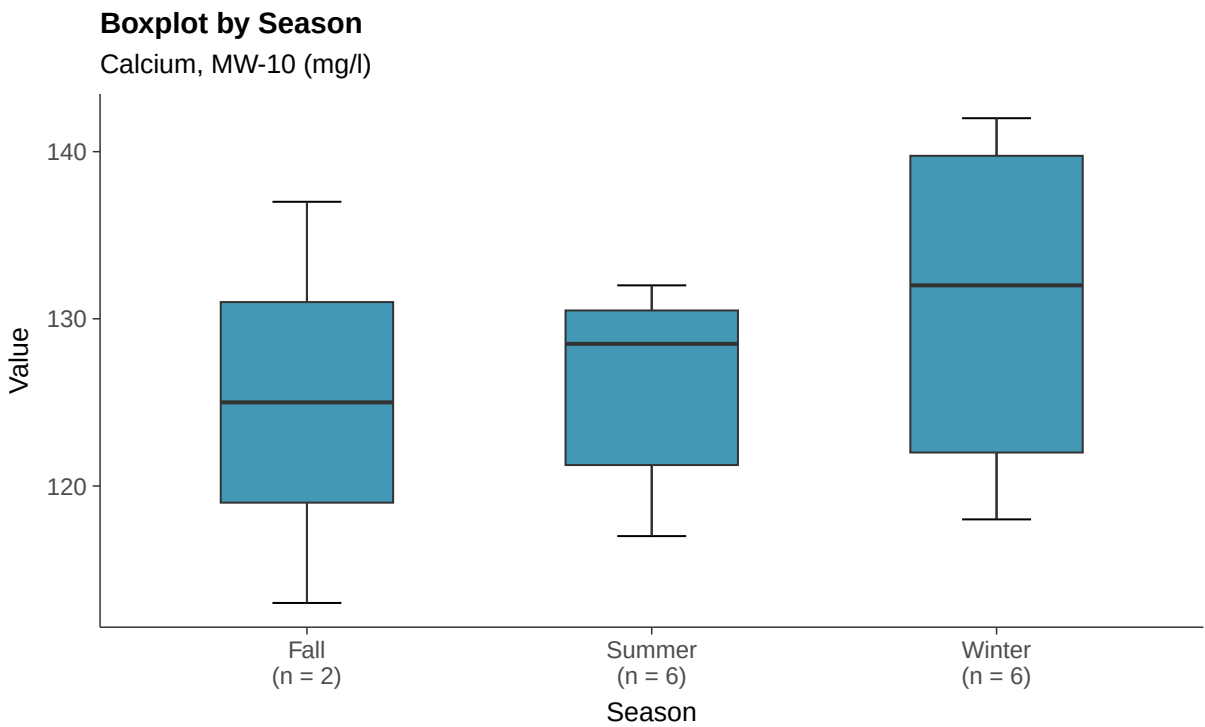
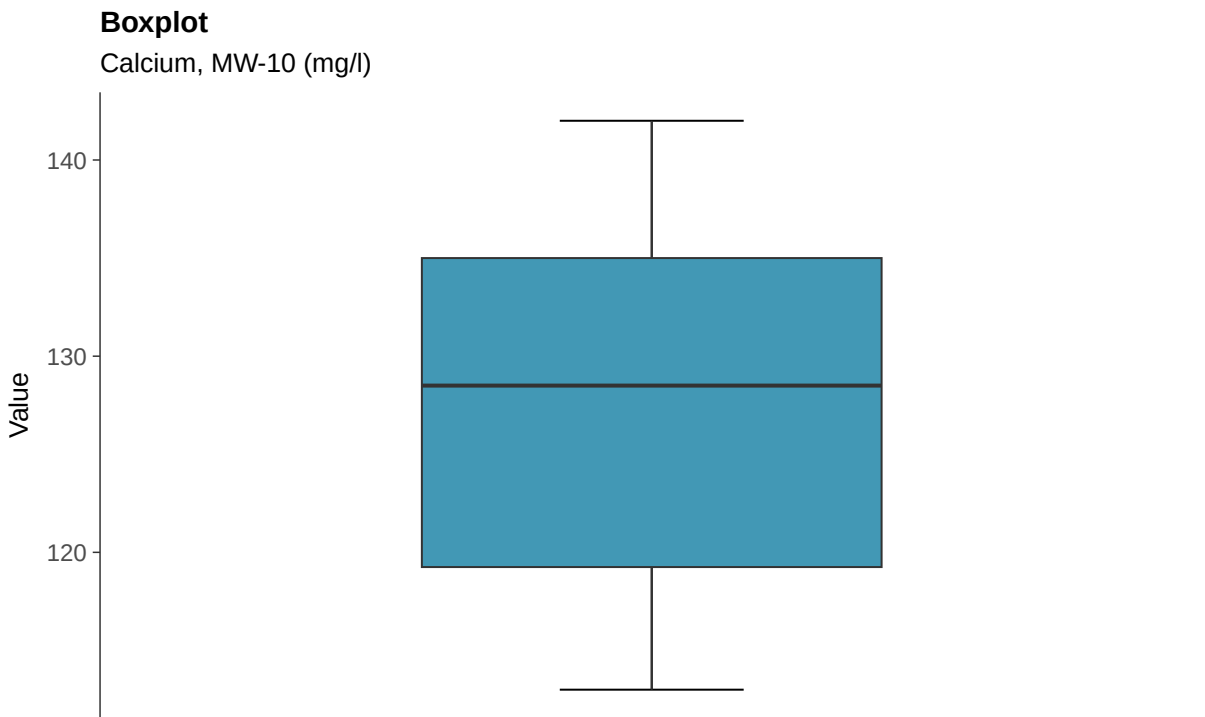


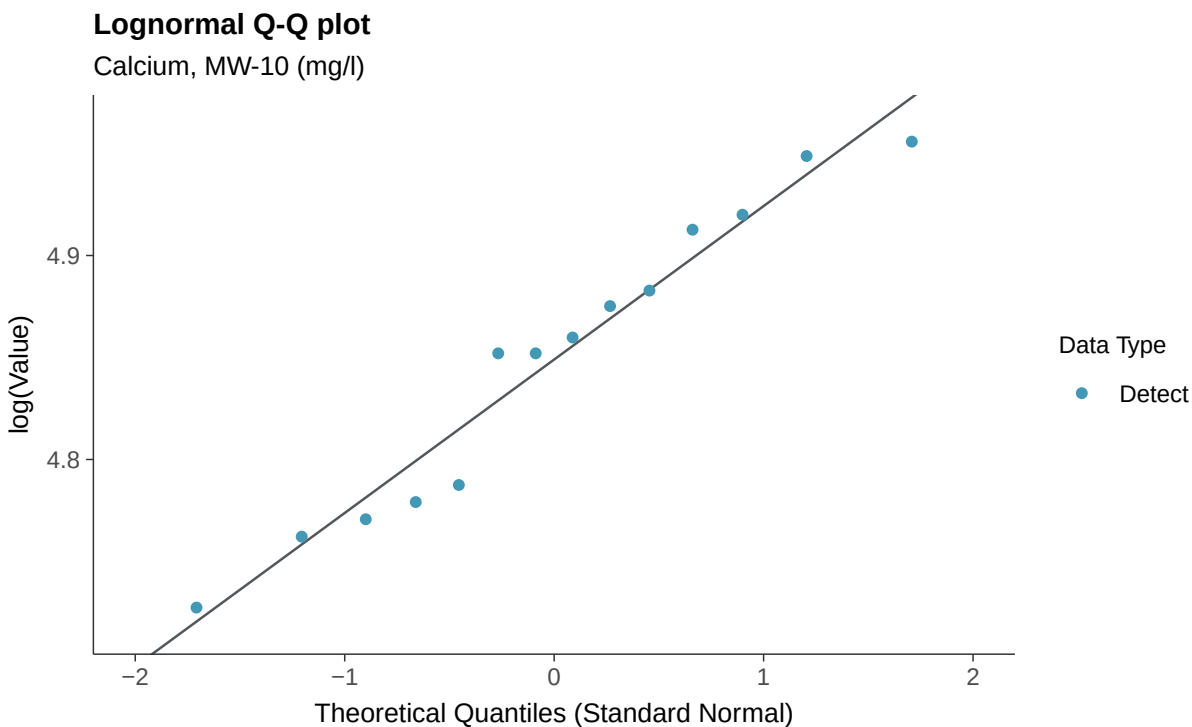
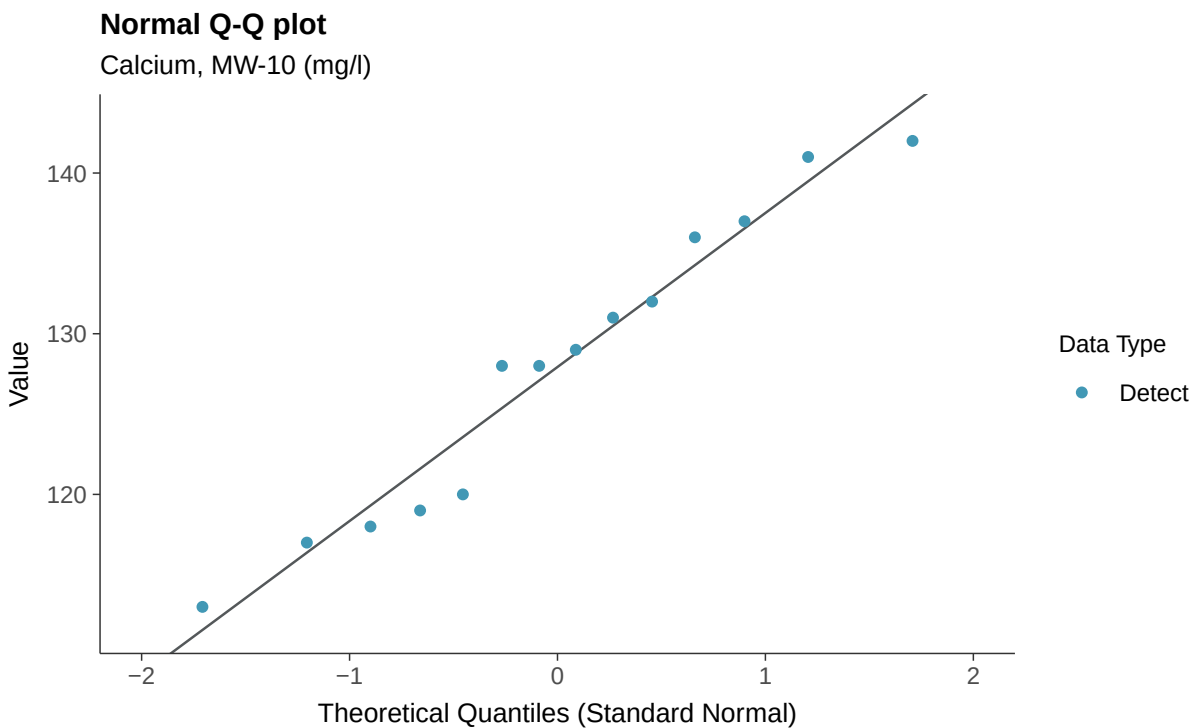


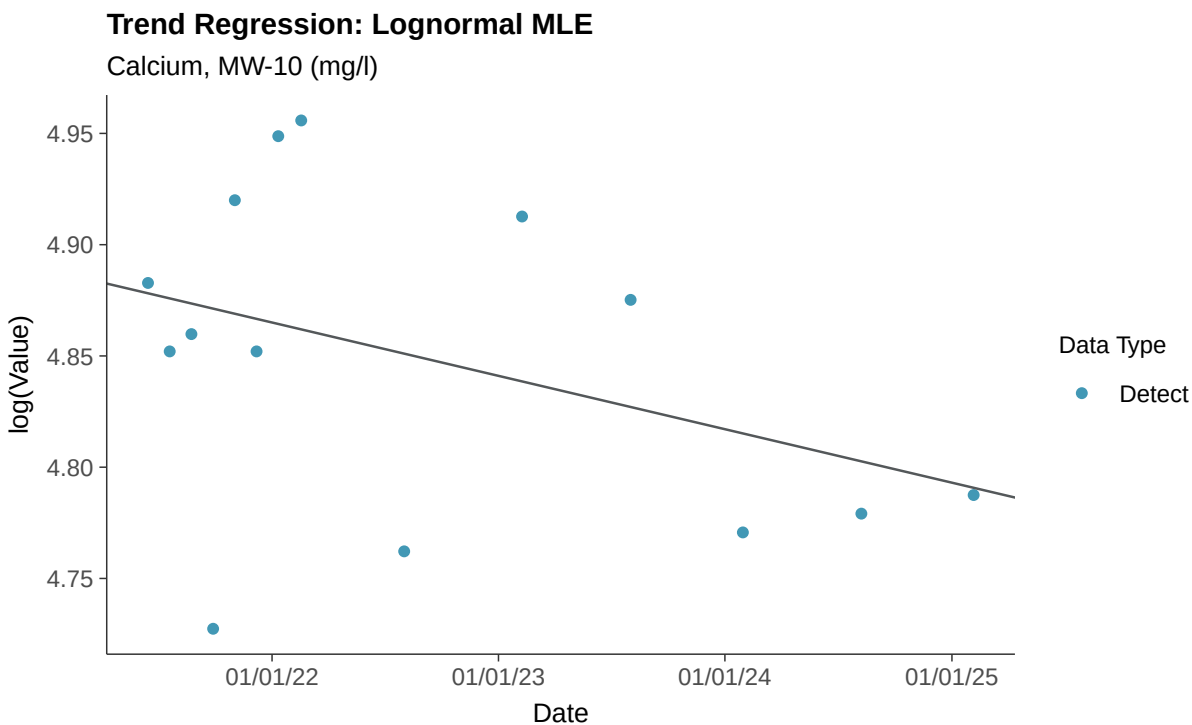
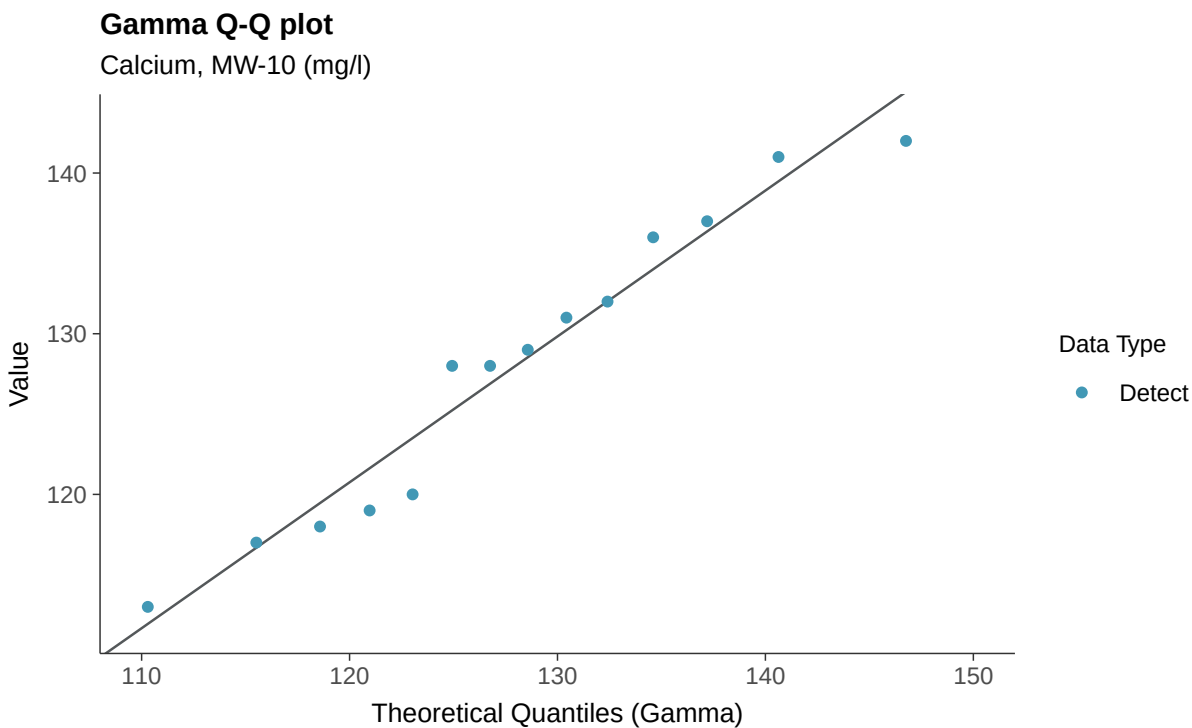
Appendix III: Calcium, MW-10

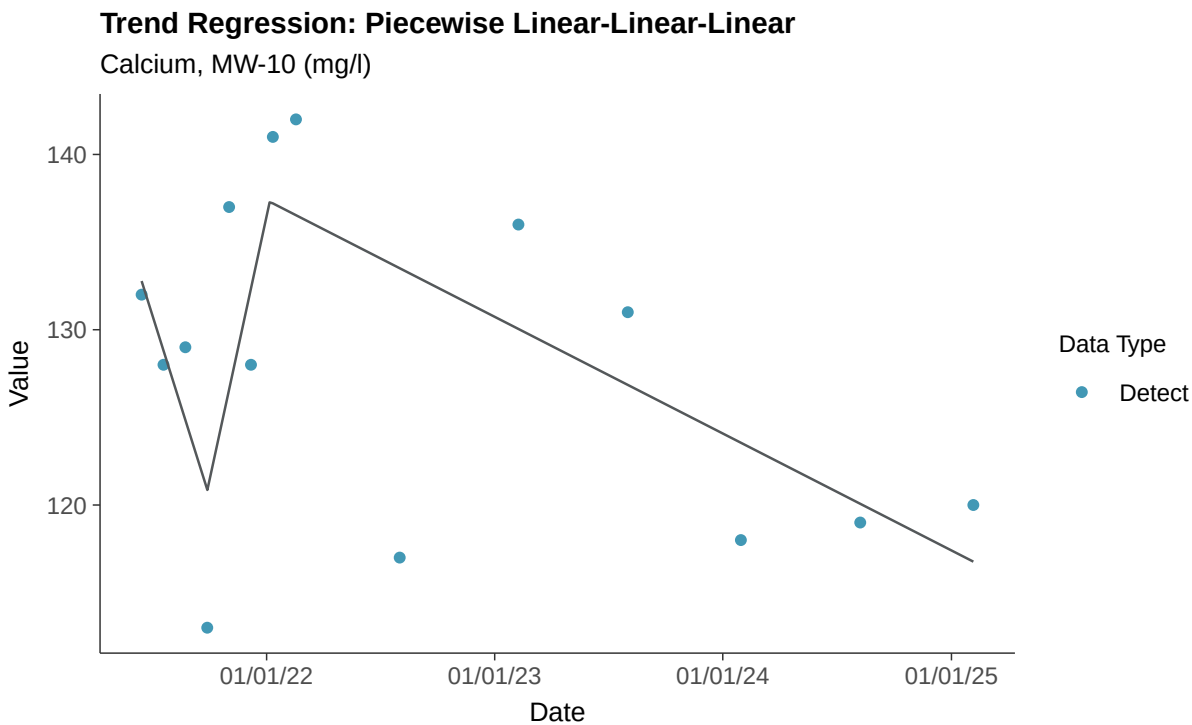
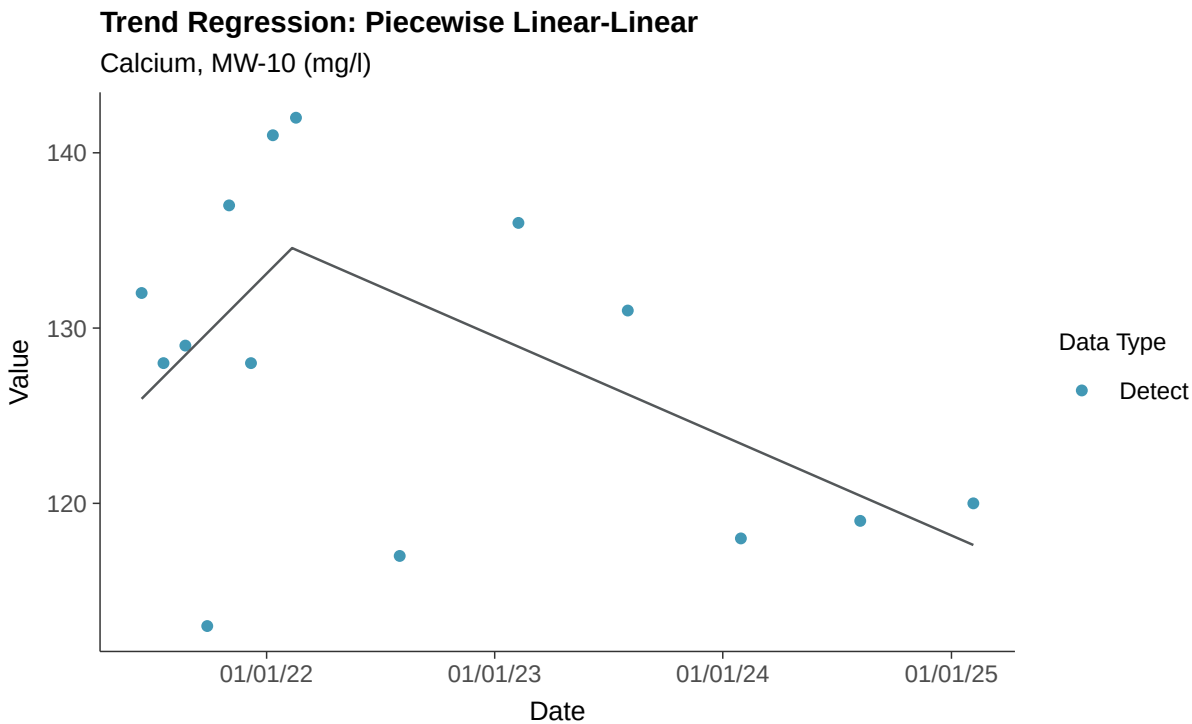
ID: 19_2_107







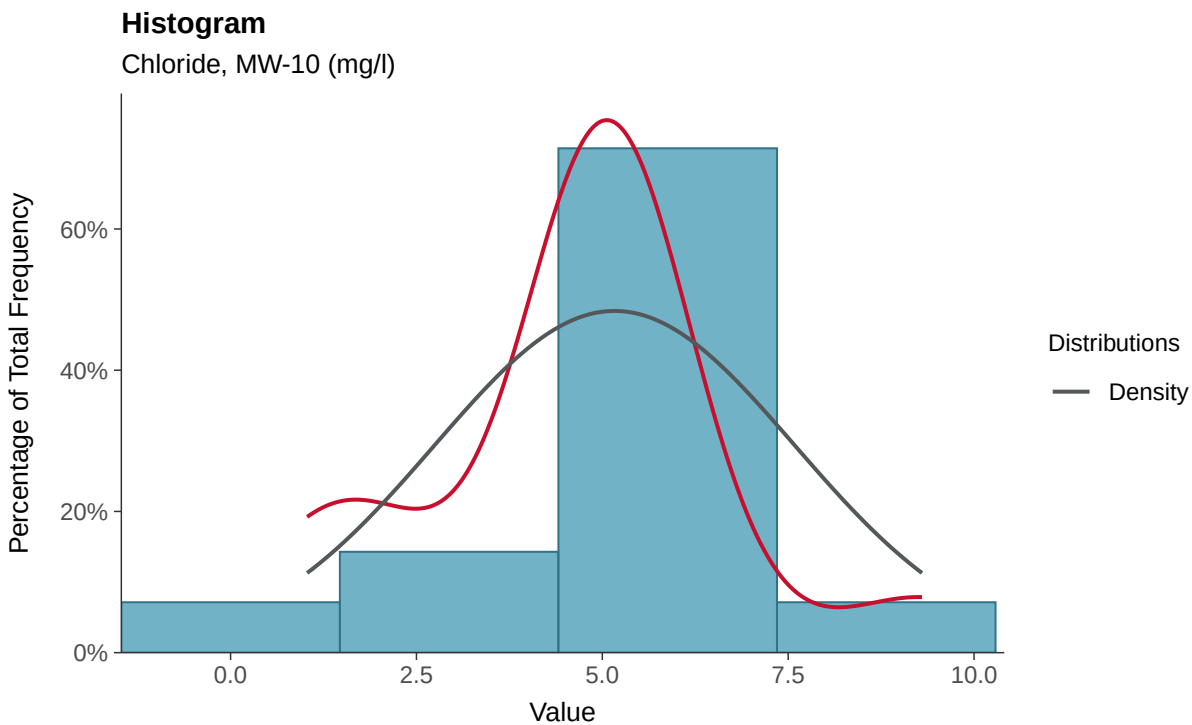
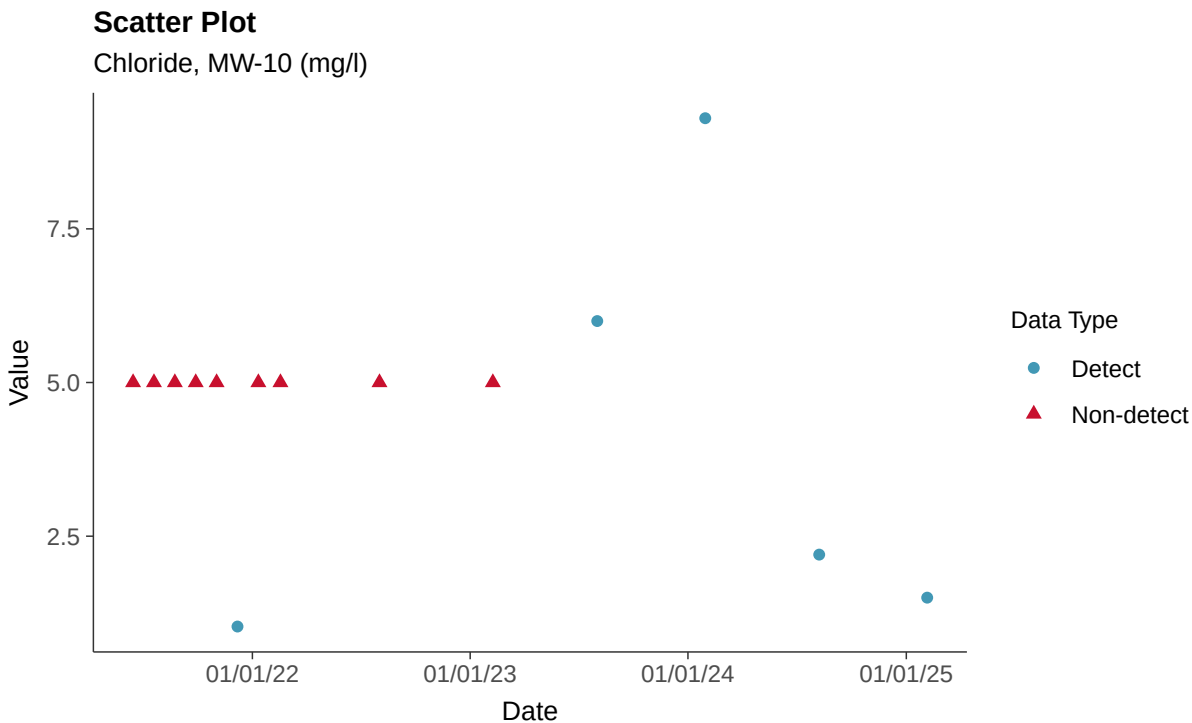


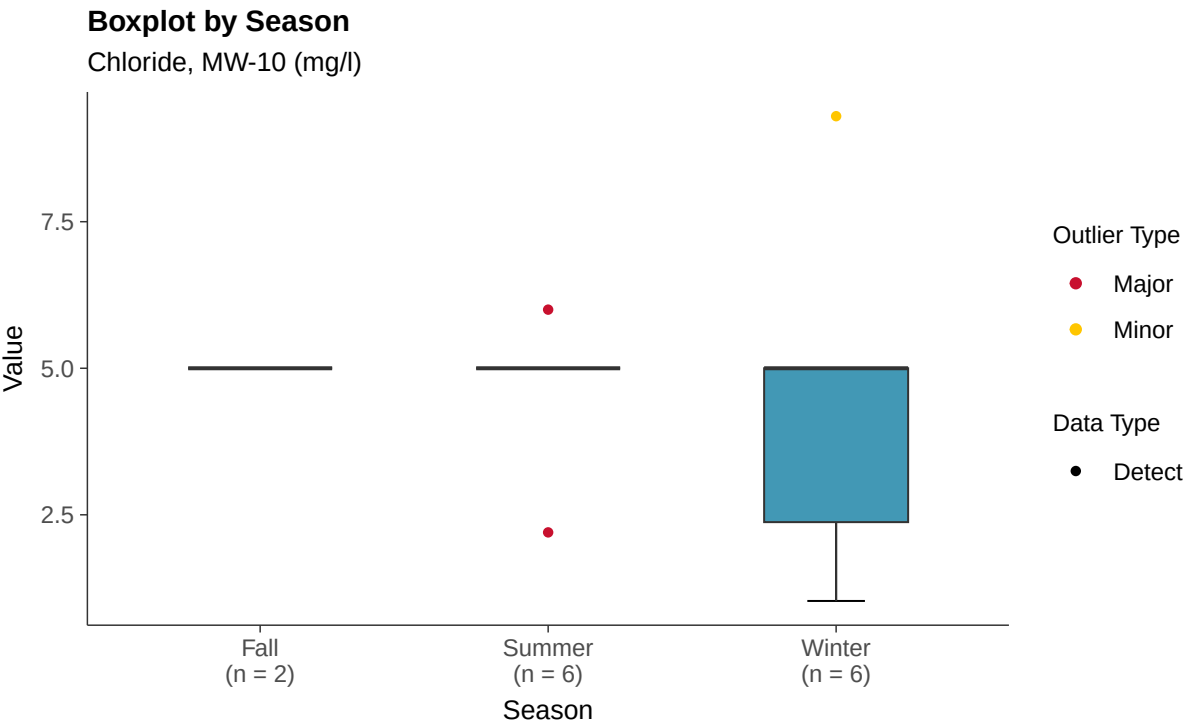
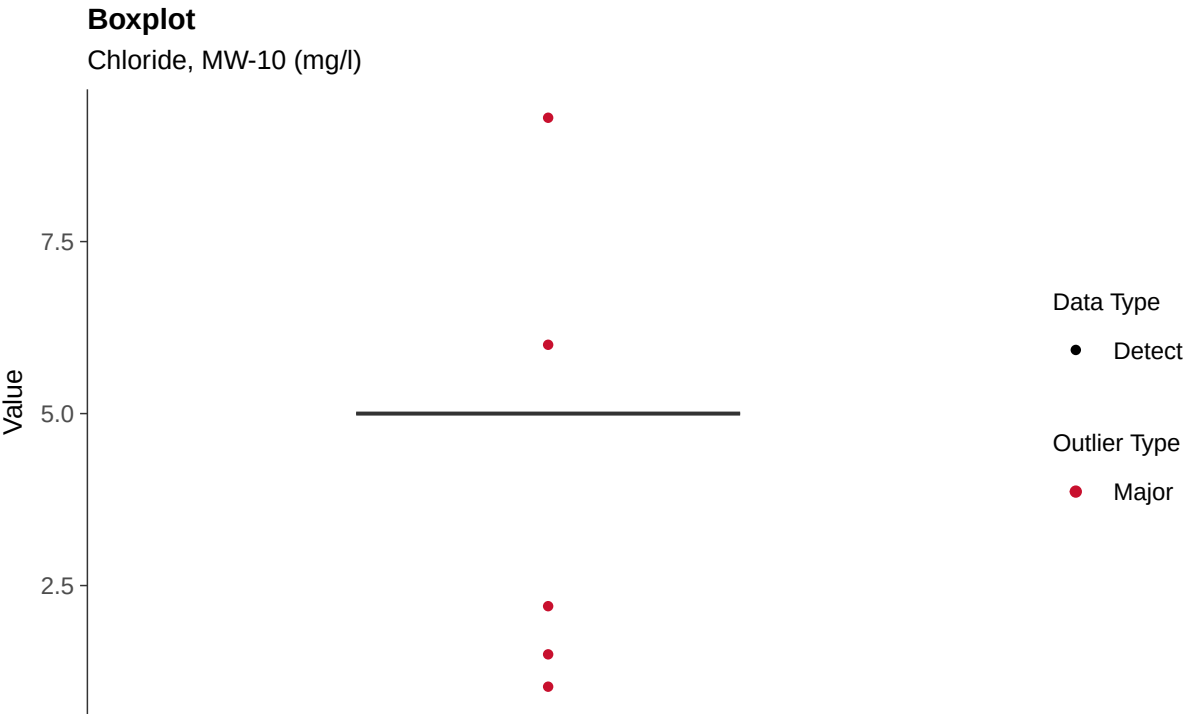




Appendix III: Chloride, MW-10

ID: 19_2_108

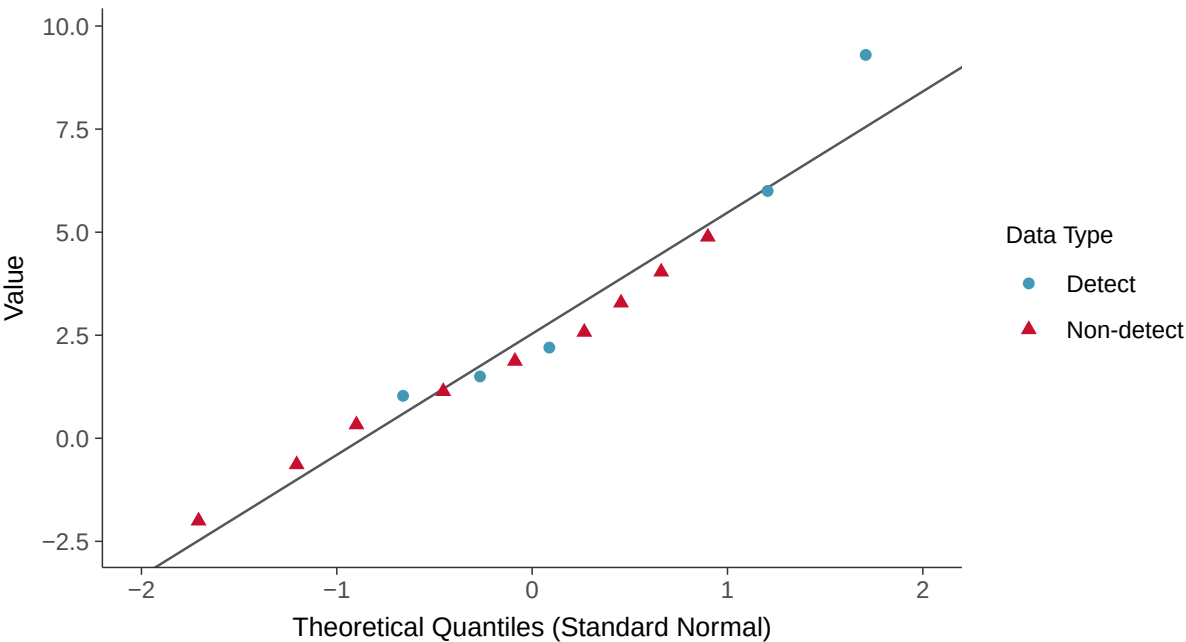






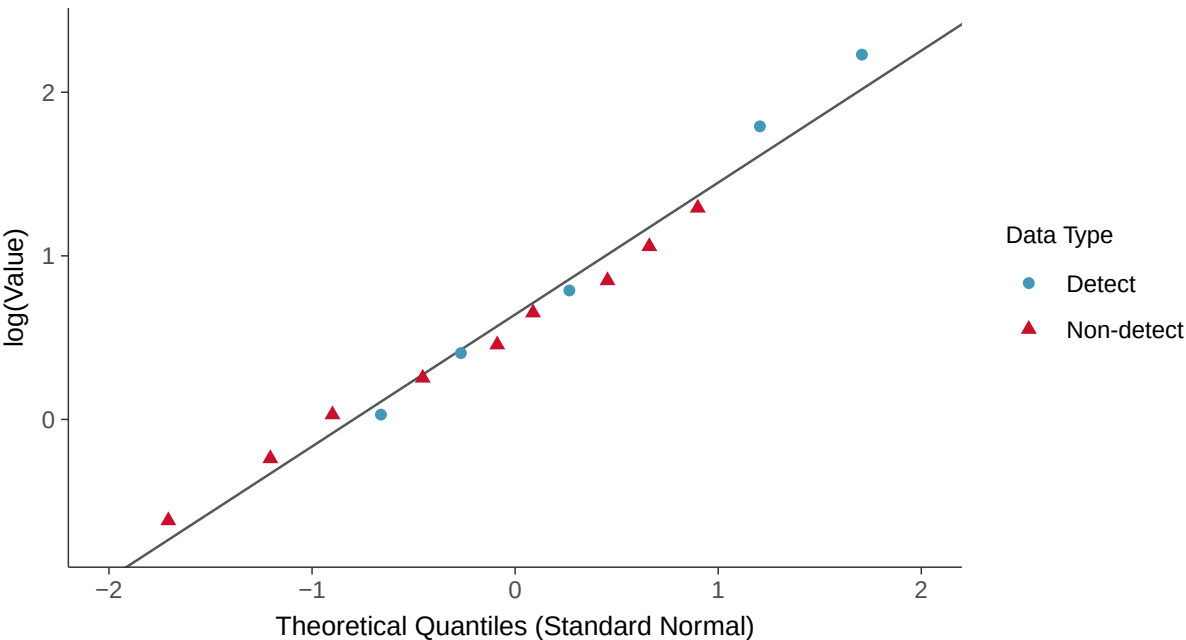
Normal Q-Q plot using ROS Imputed Estimates

Chloride, MW-10 (mg/l)



Lognormal Q-Q plot using ROS Imputed Estimates

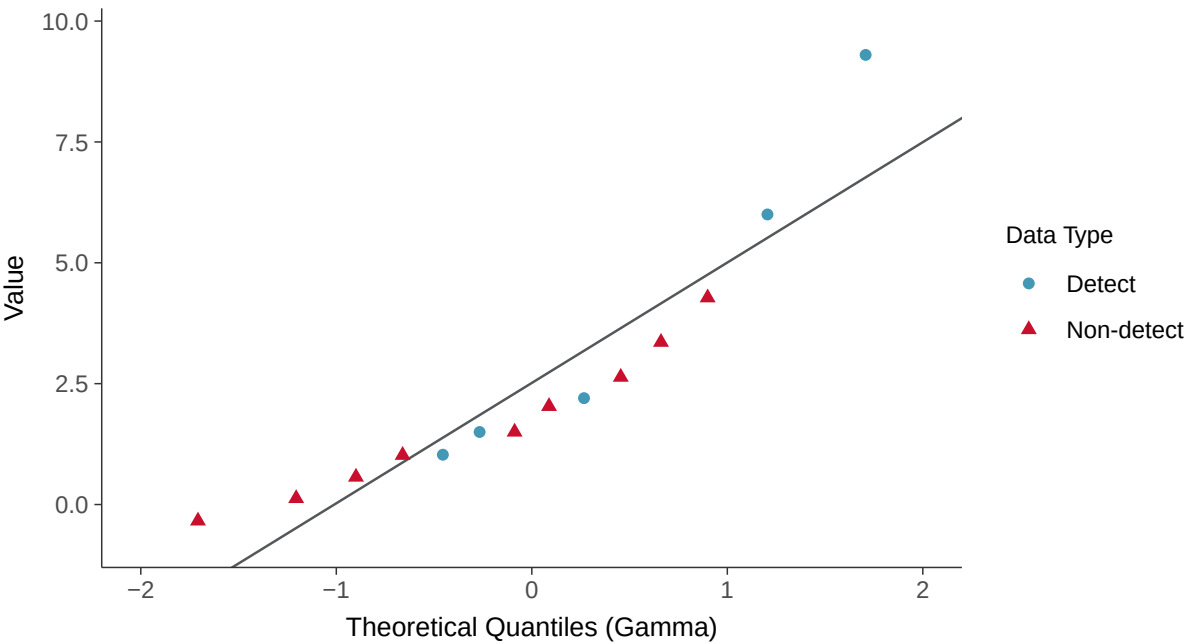
Chloride, MW-10 (mg/l)





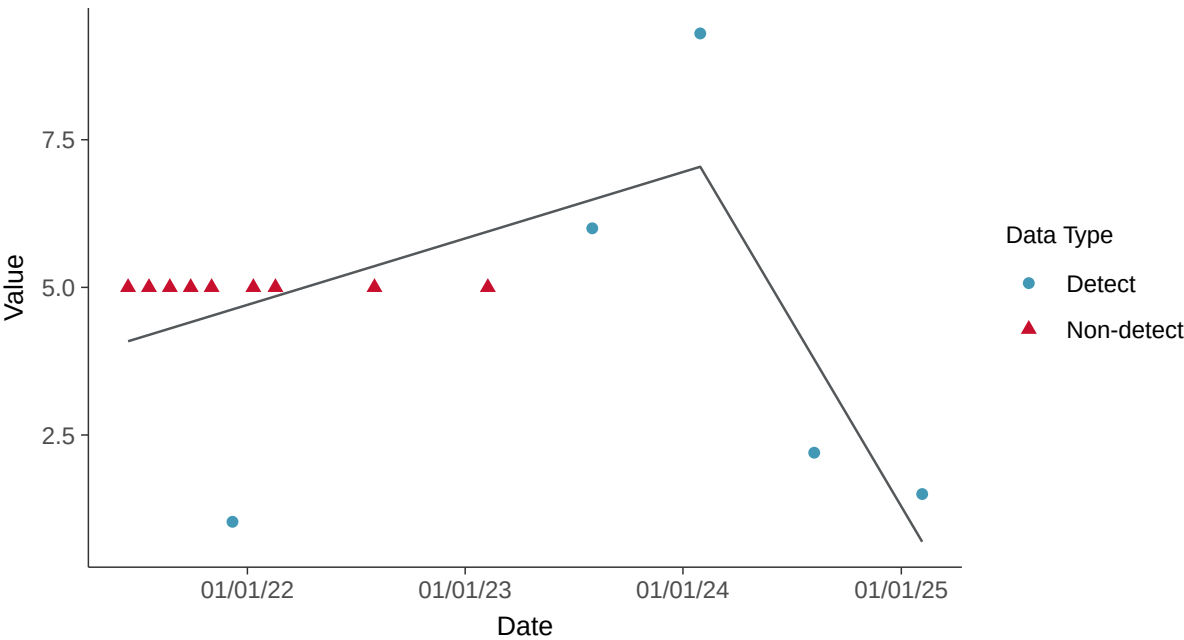
Gamma Q-Q plot using ROS Imputed Estimates

Chloride, MW-10 (mg/l)

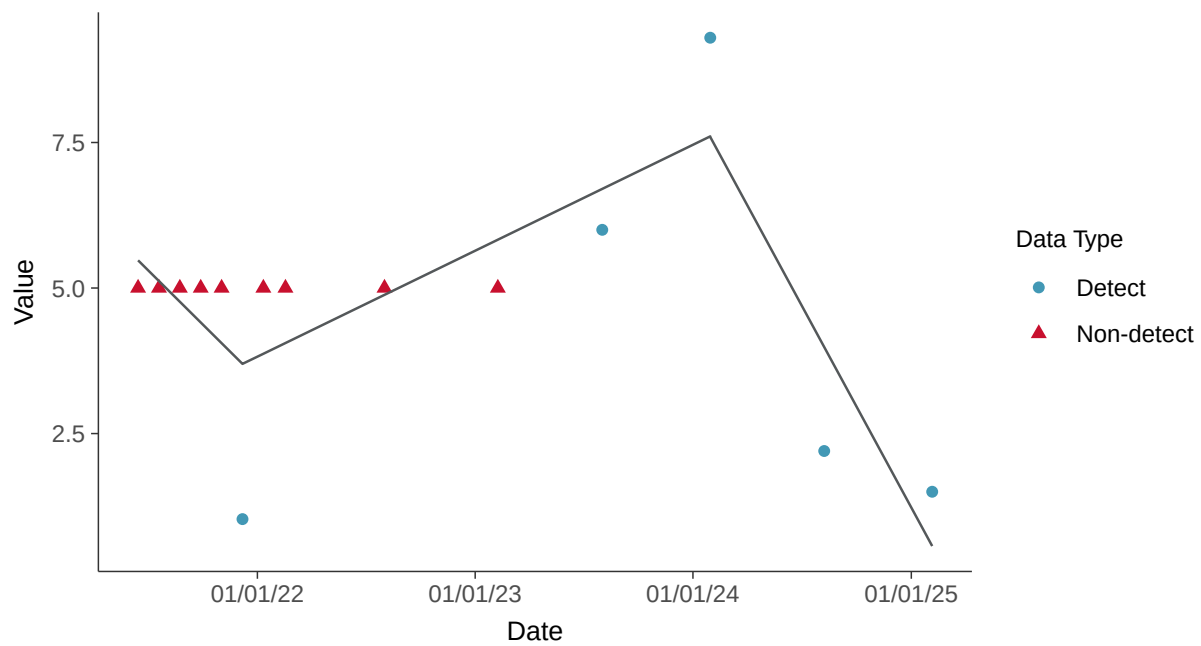


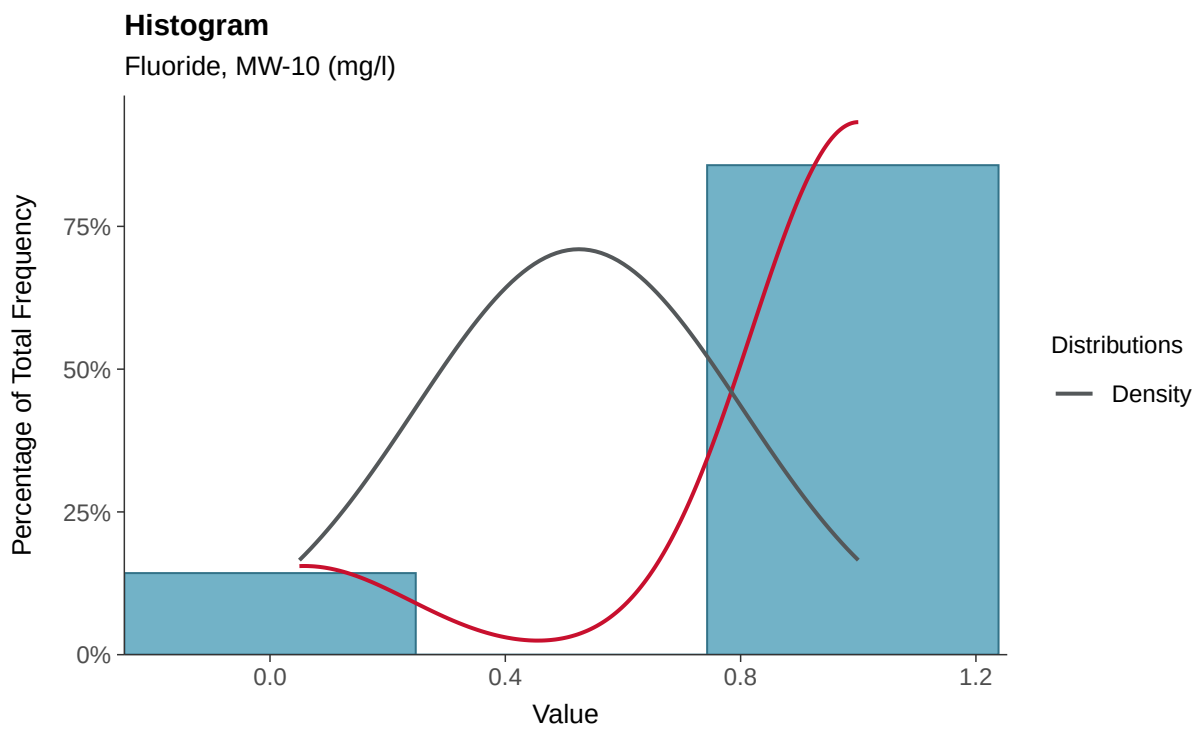
Trend Regression: Piecewise Linear-Linear

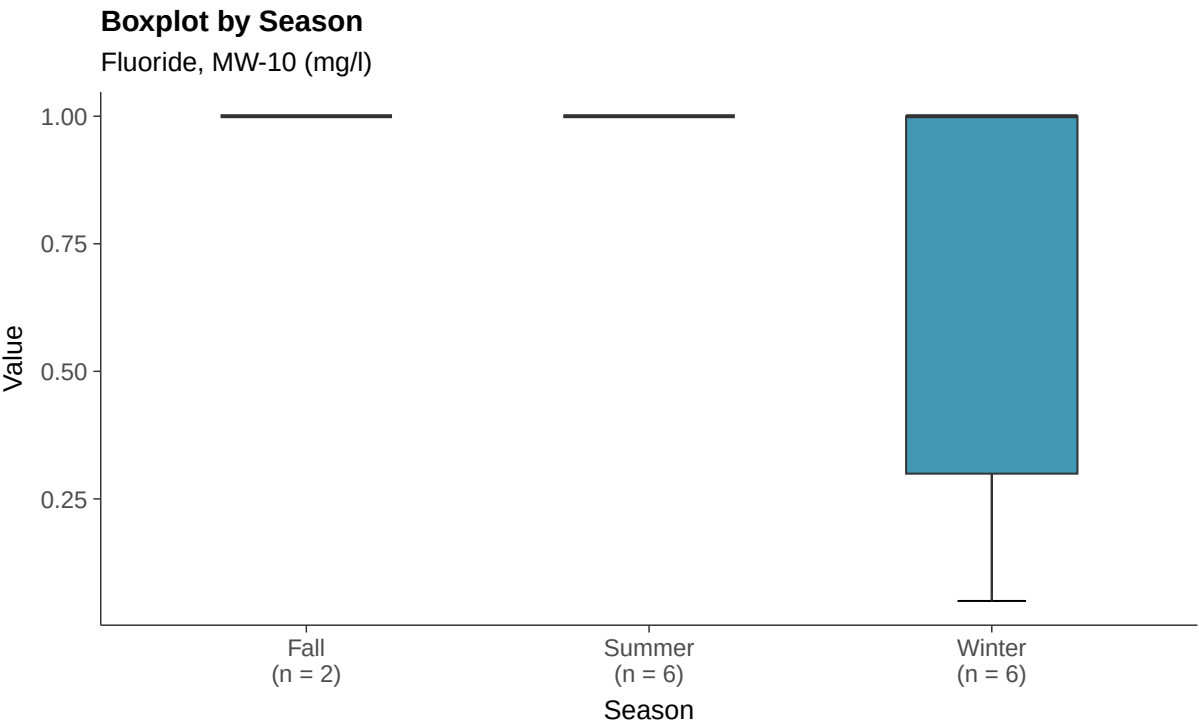
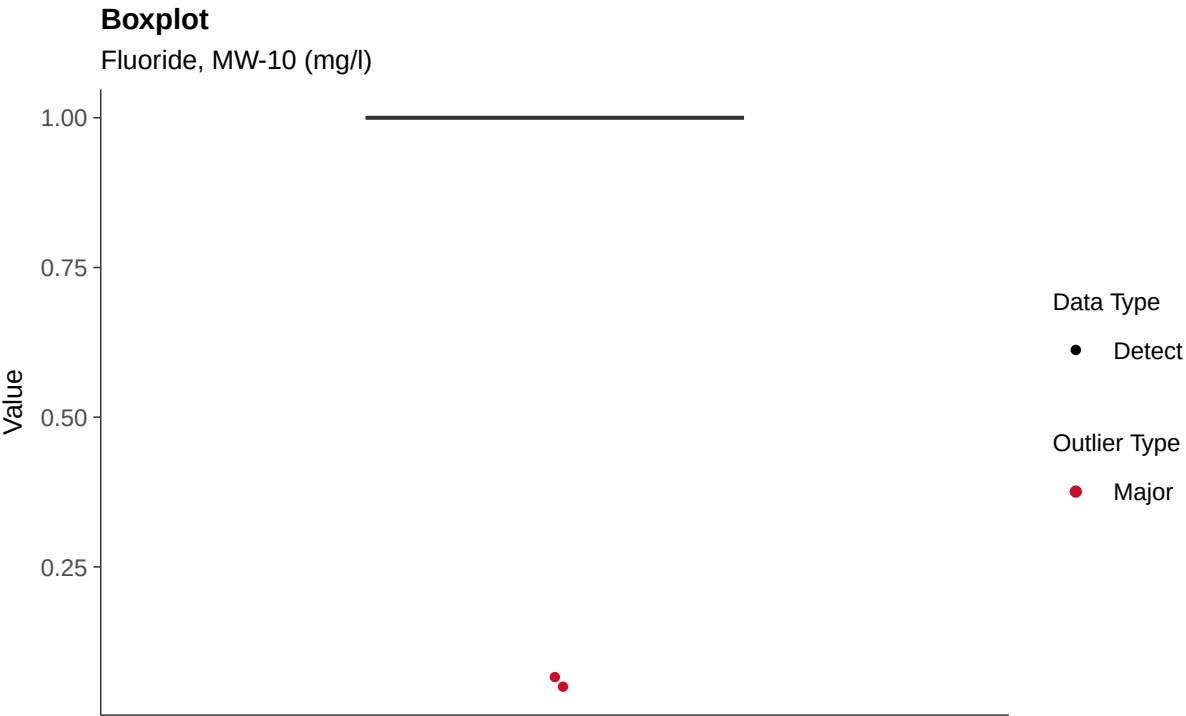
Chloride, MW-10 (mg/l)



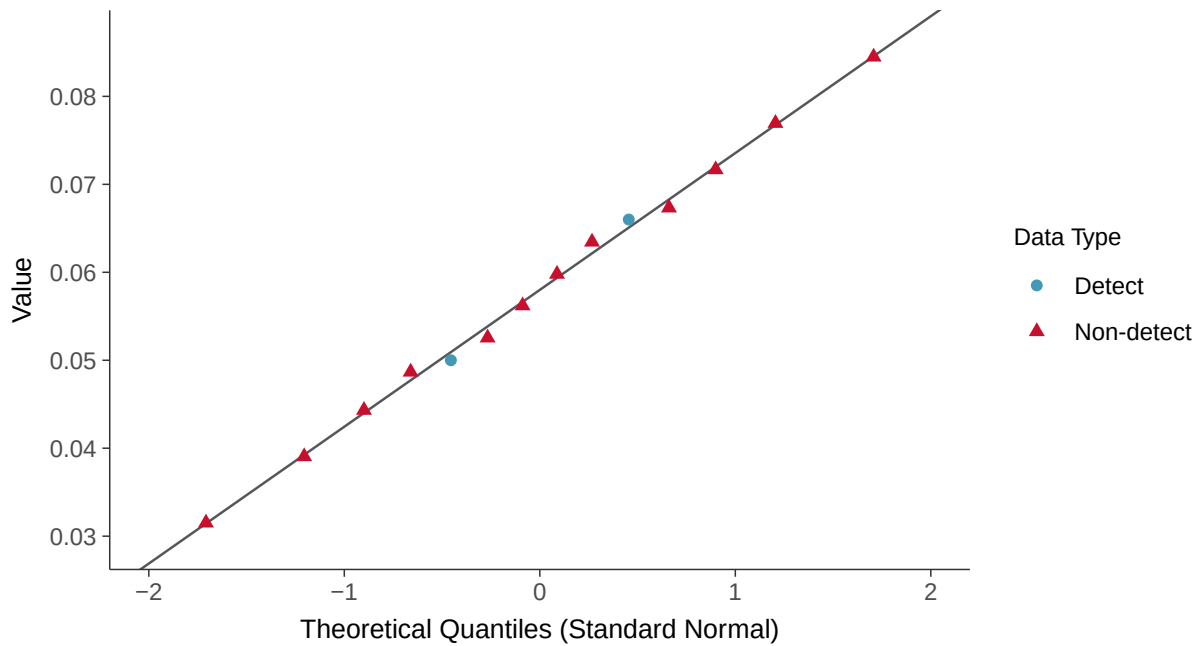
Chloride, MW-10 (mg/l)



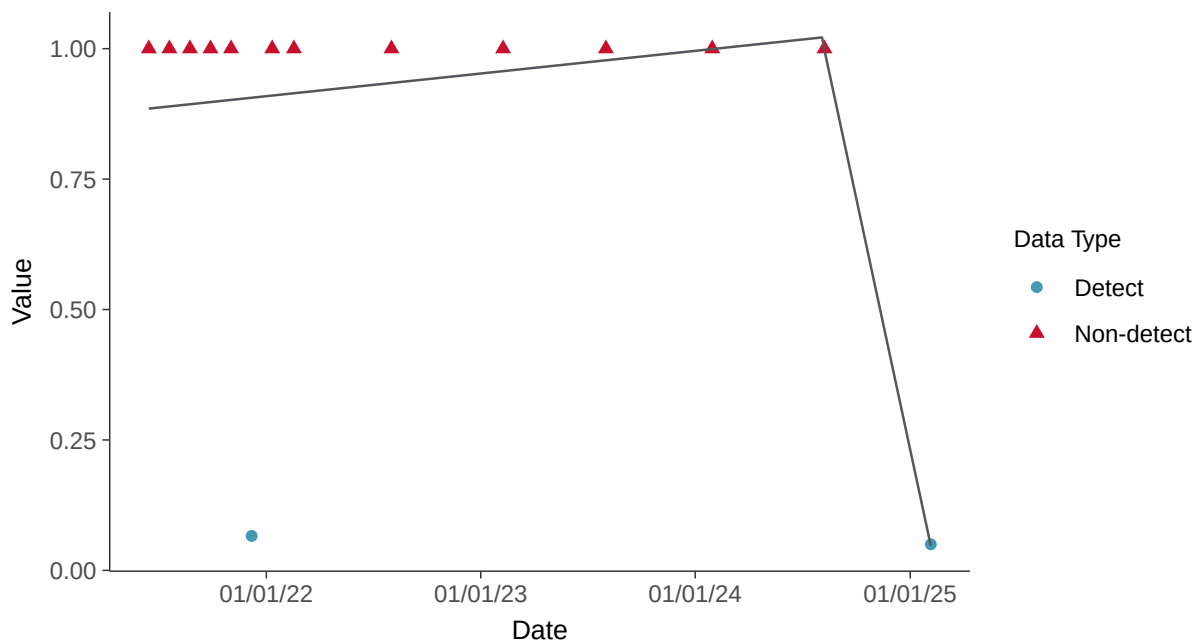


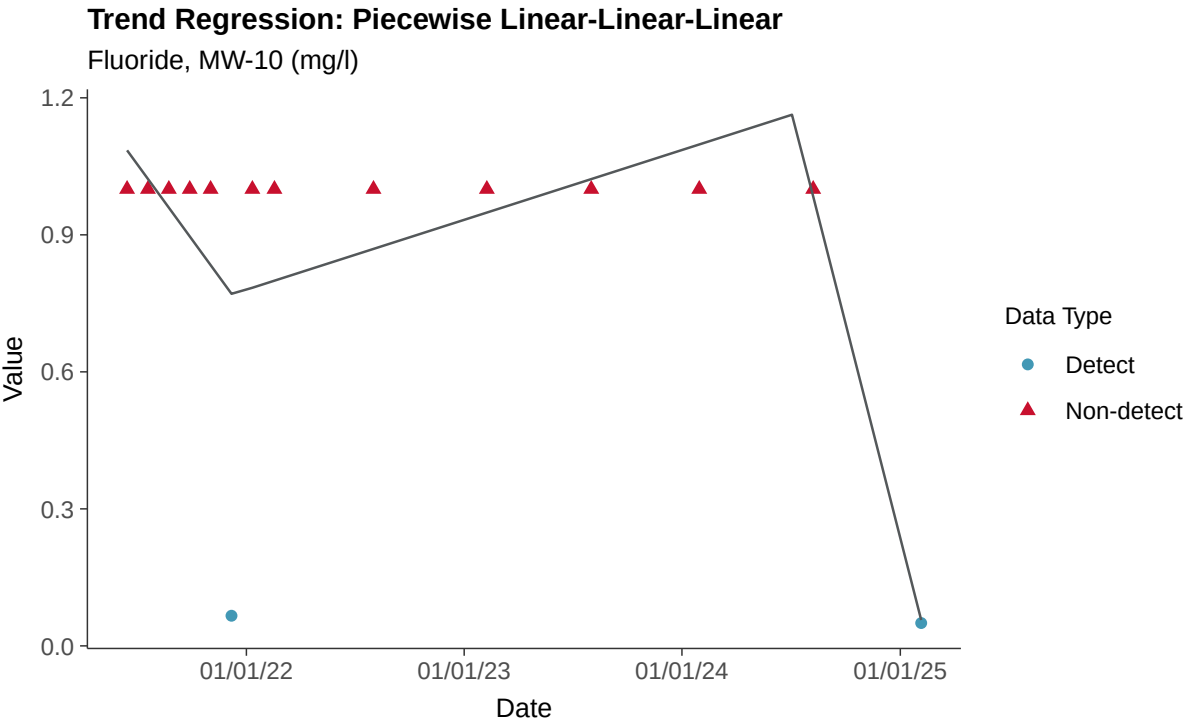


Fluoride, MW-10 (mg/l)



Fluoride, MW-10 (mg/l)

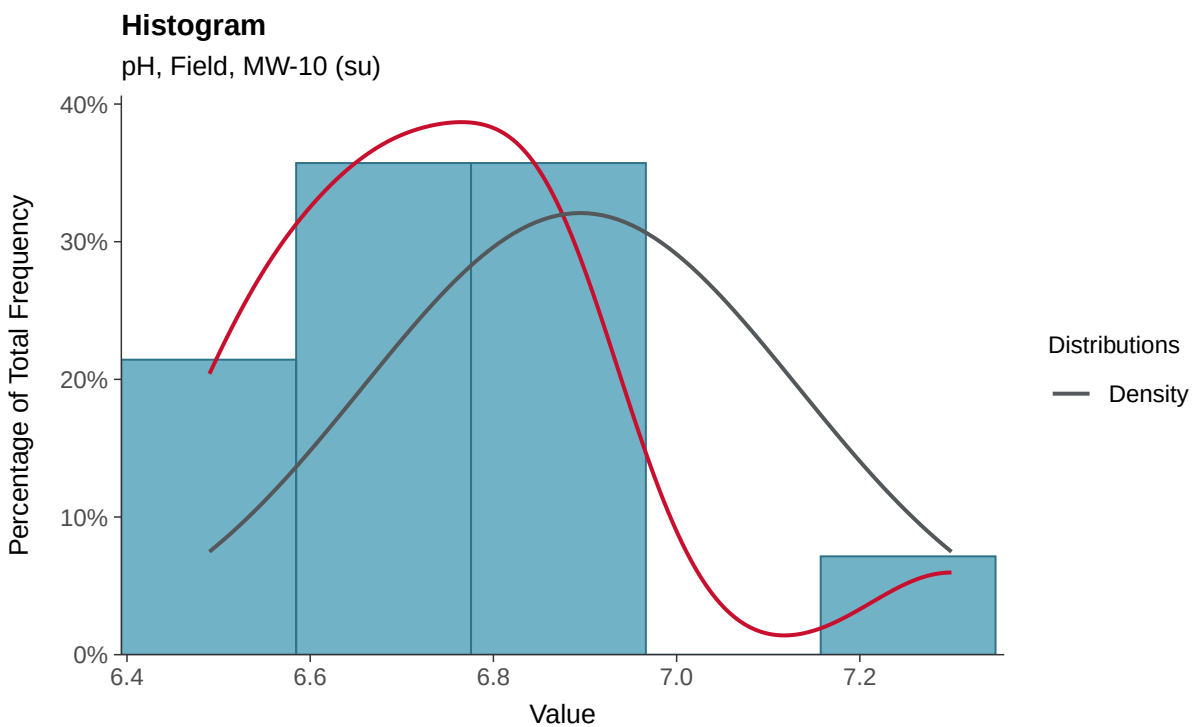
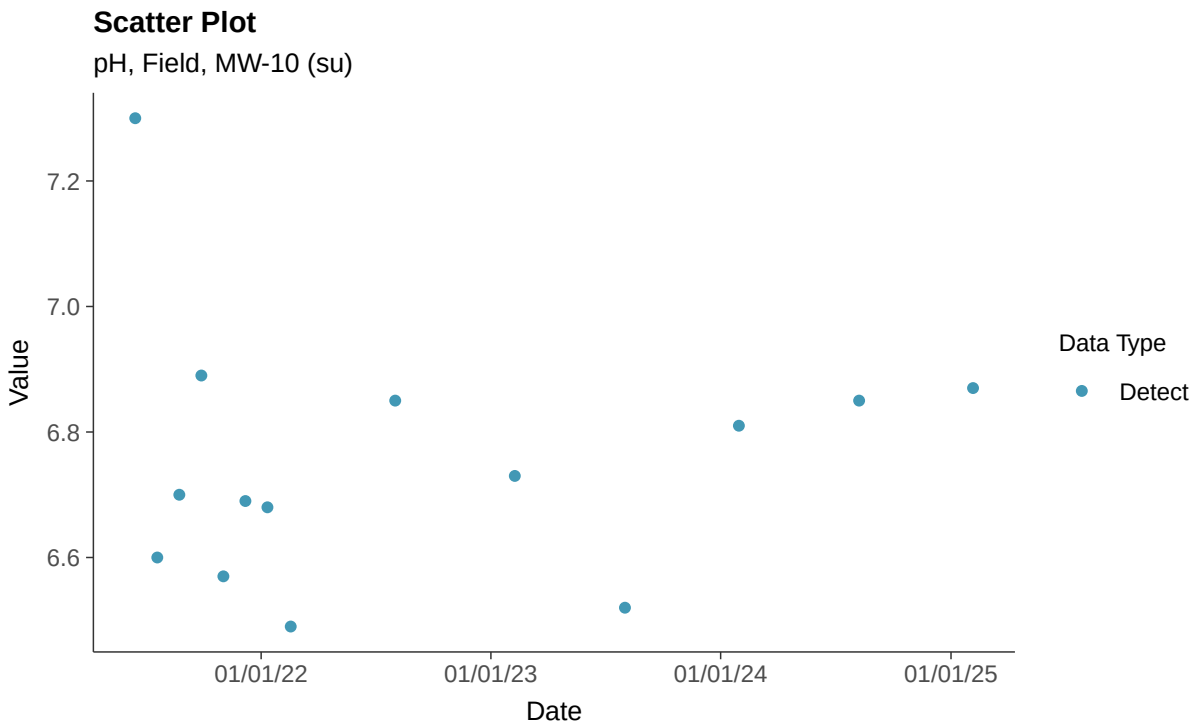


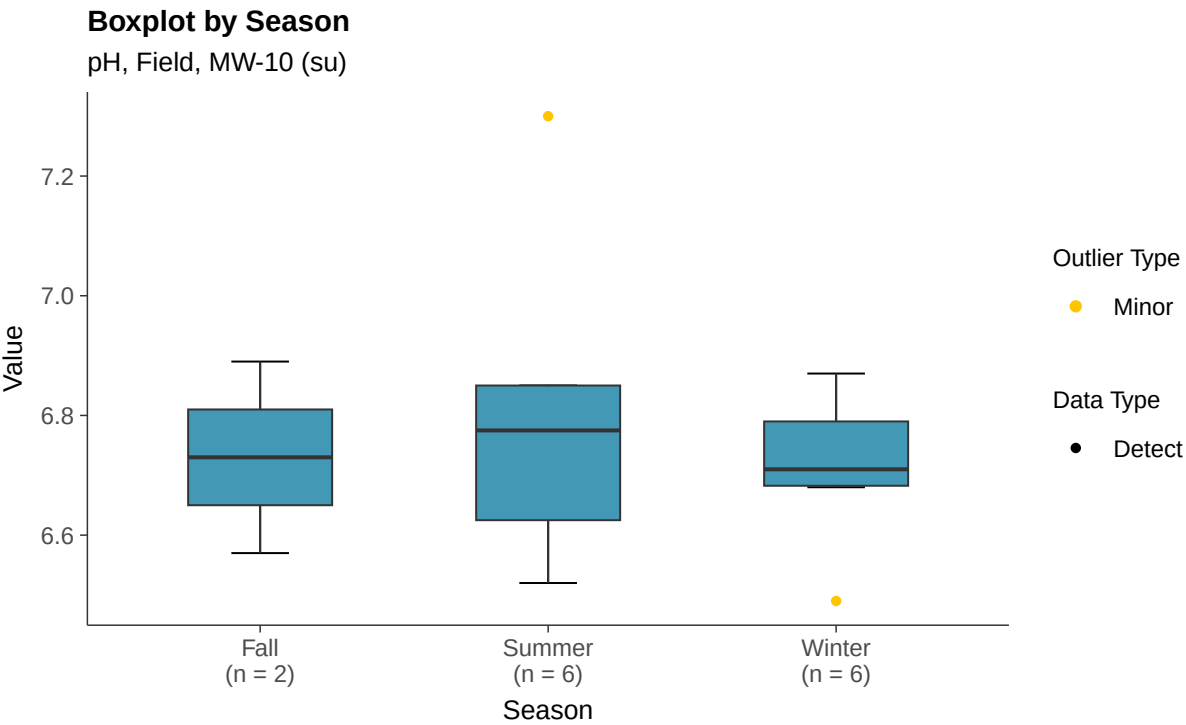
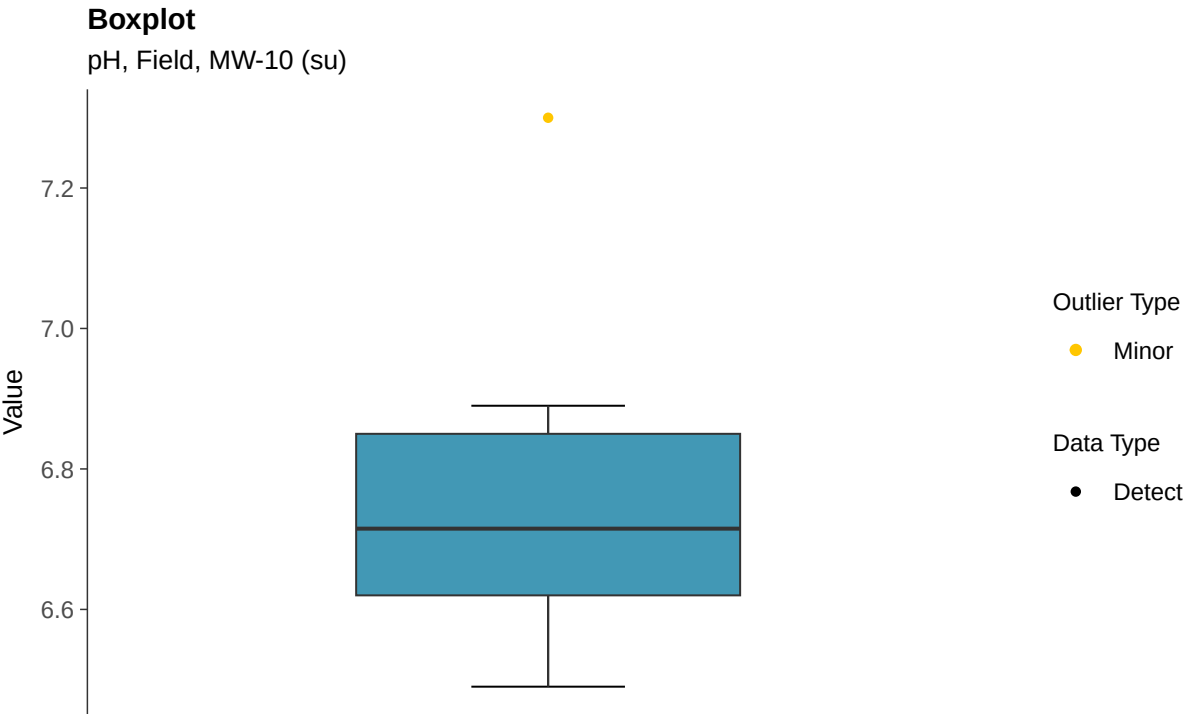


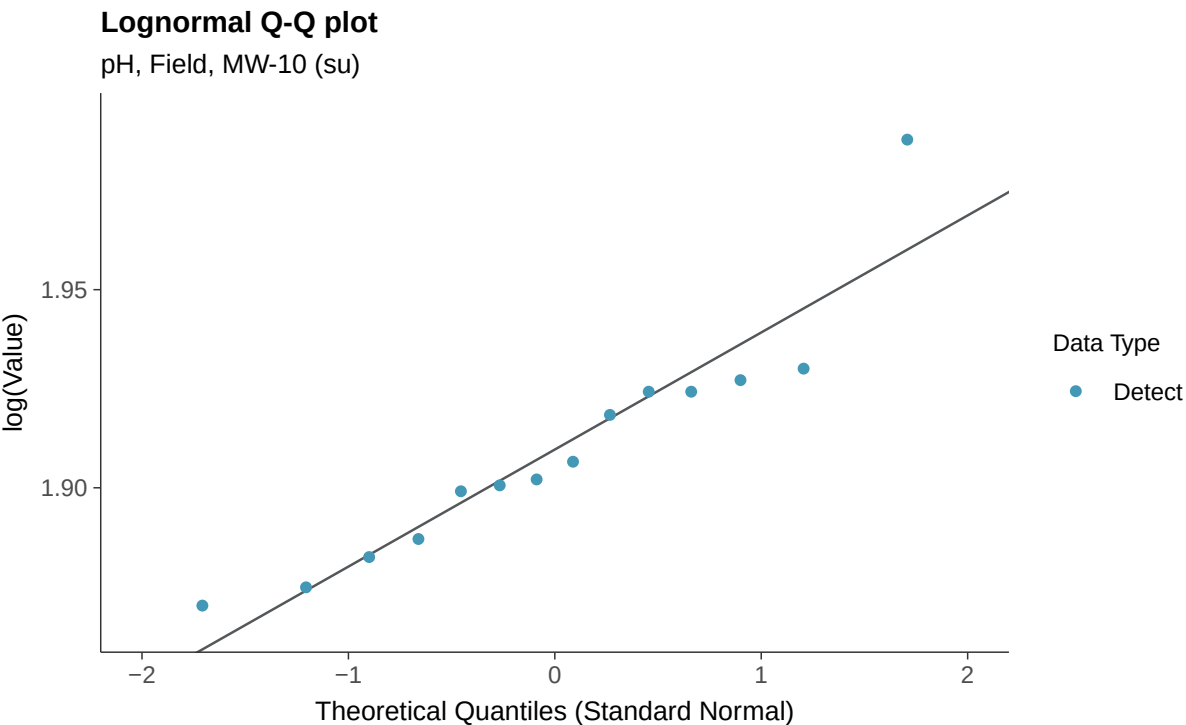
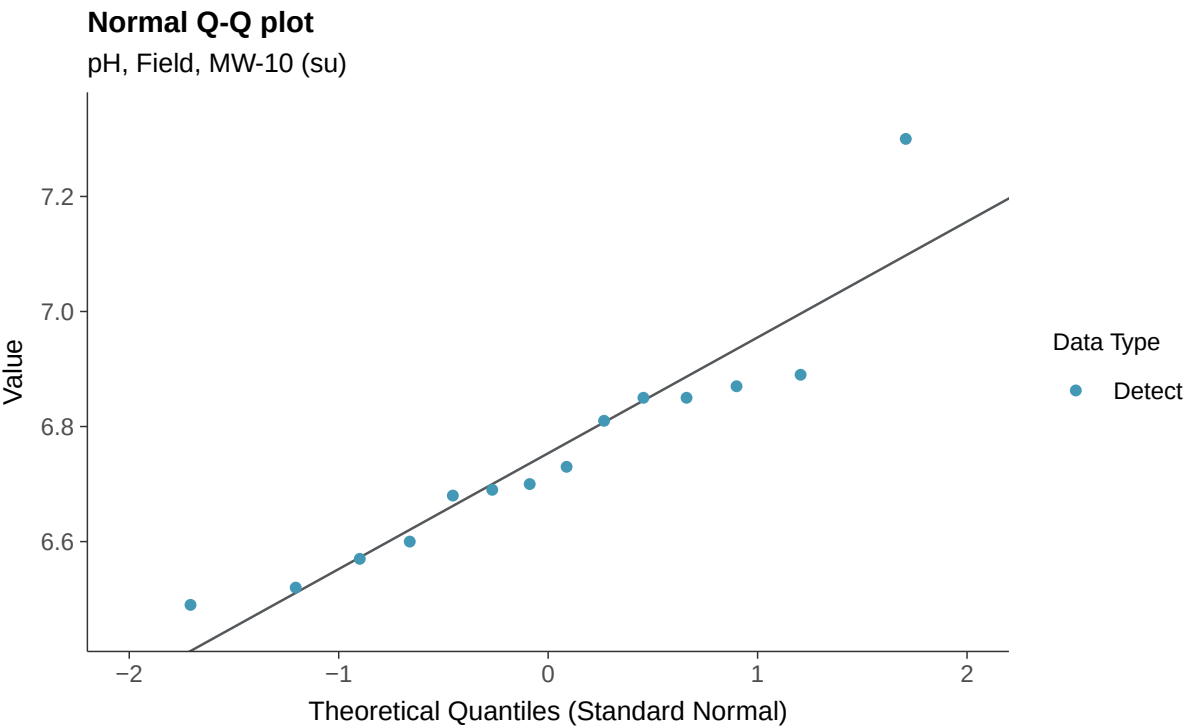


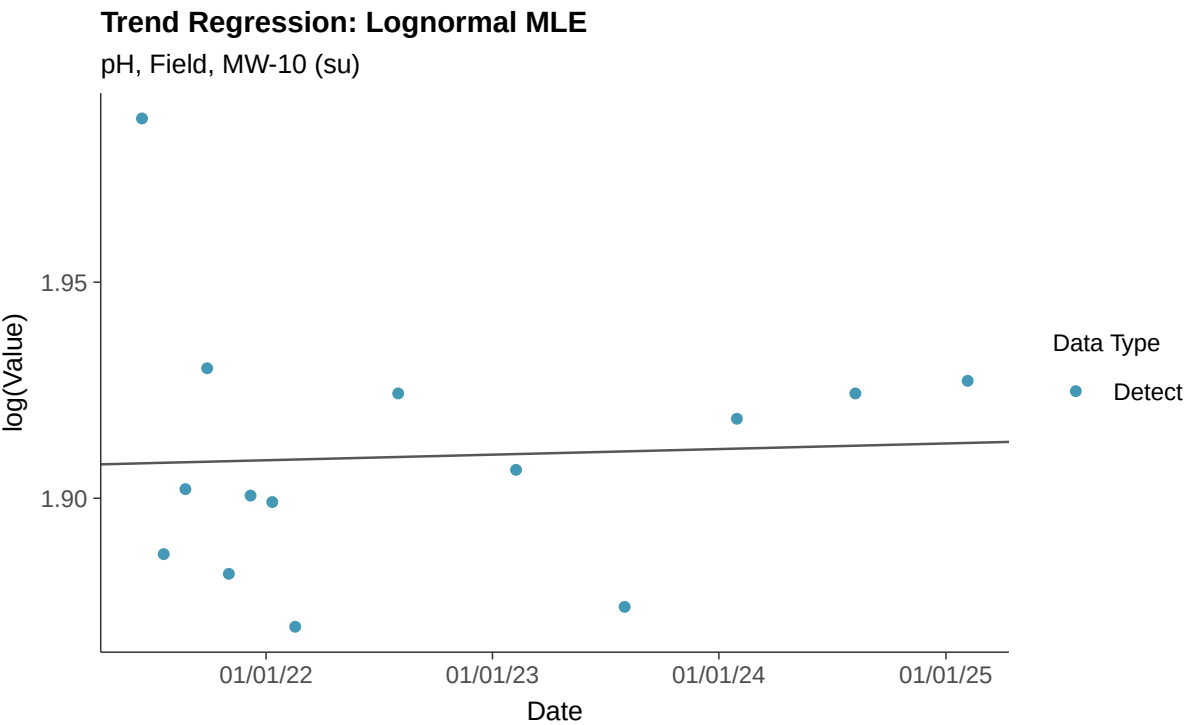
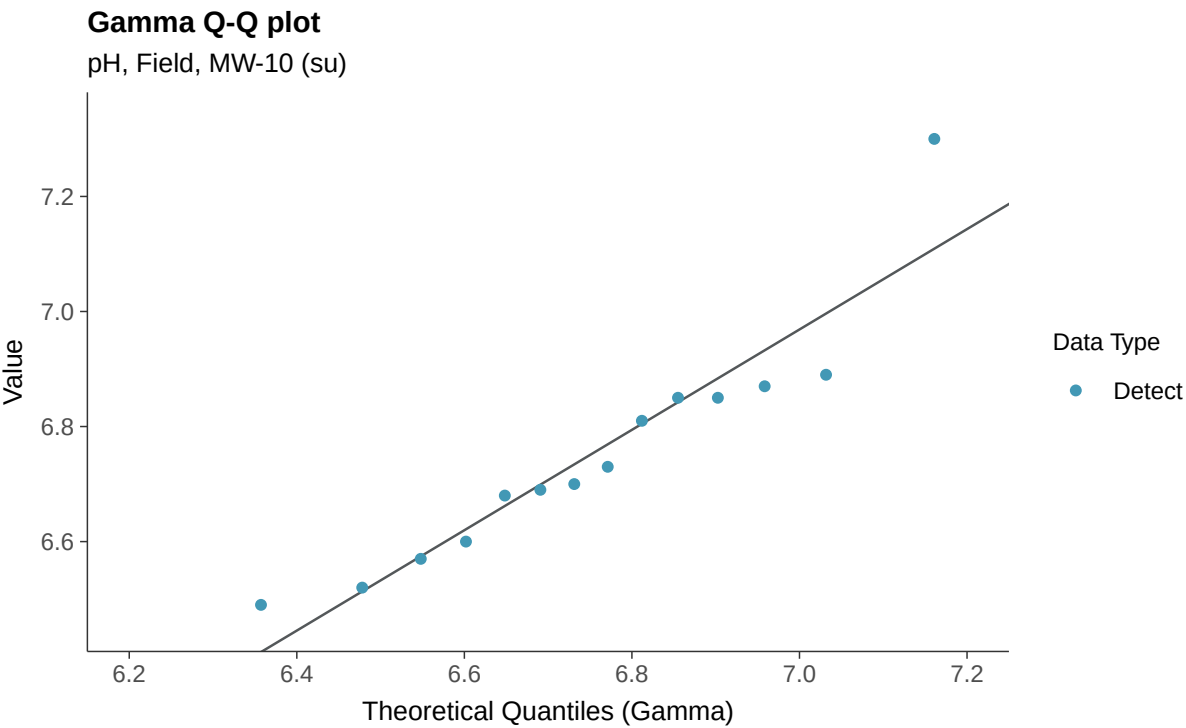
Appendix III: pH, Field, MW-10

ID: 19_2_120





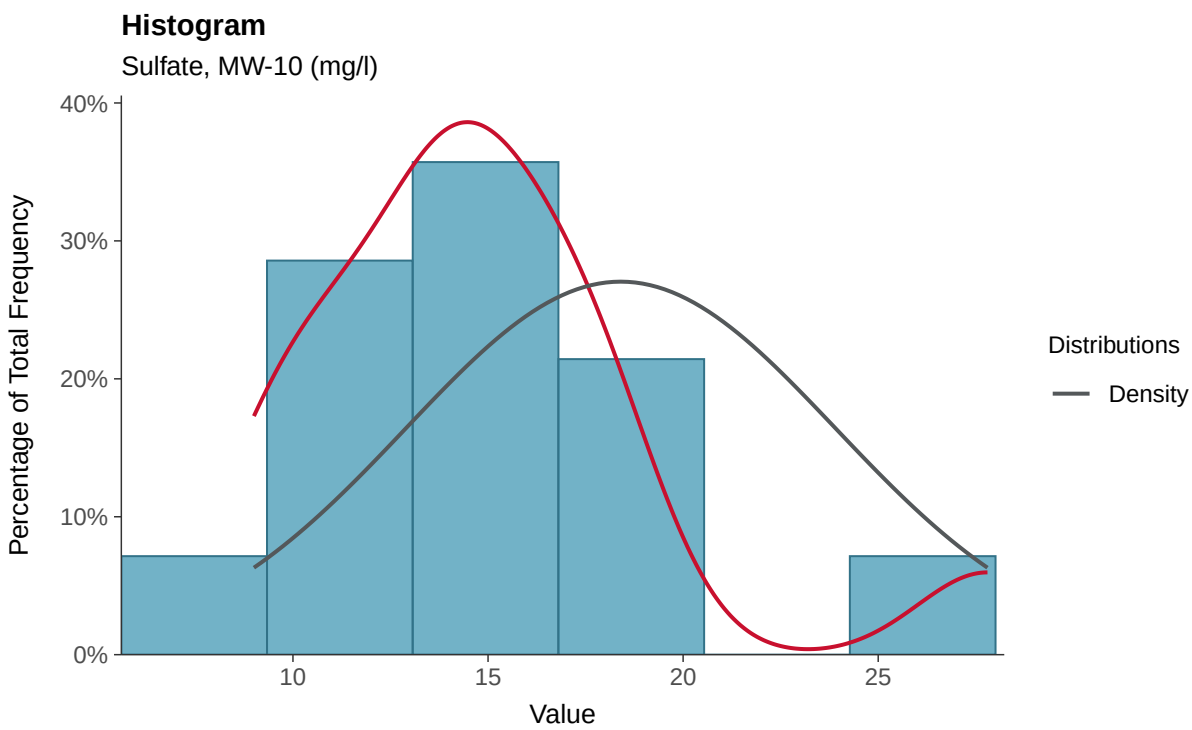
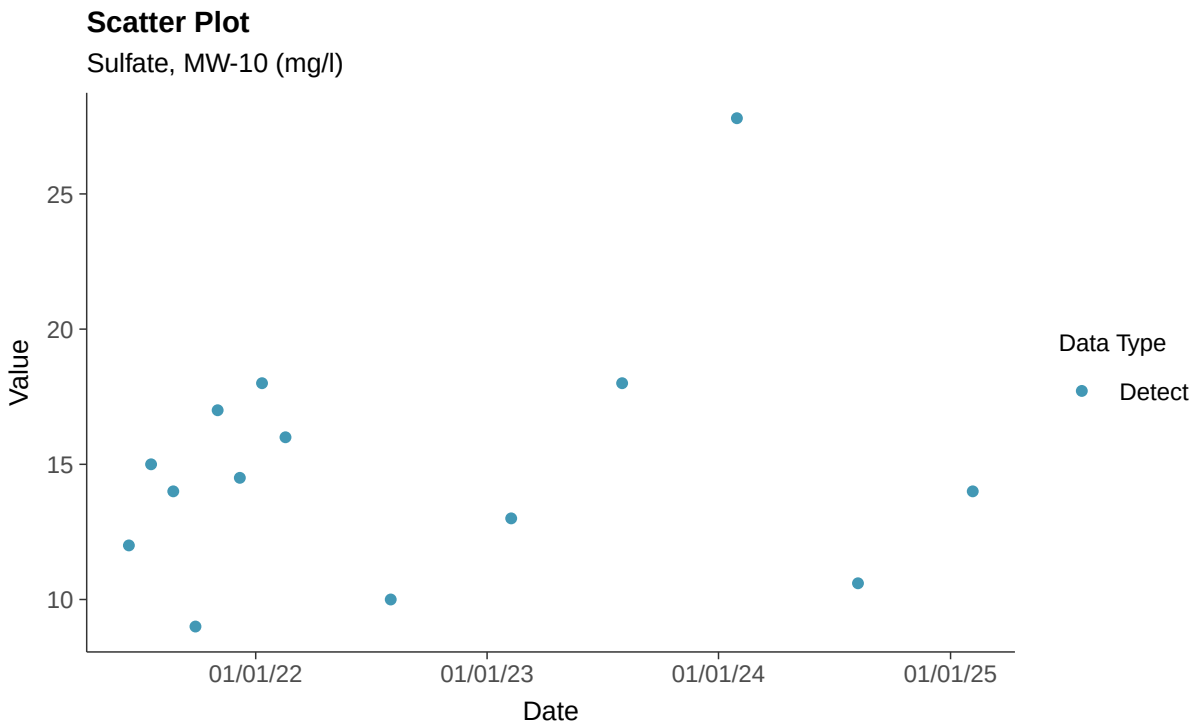


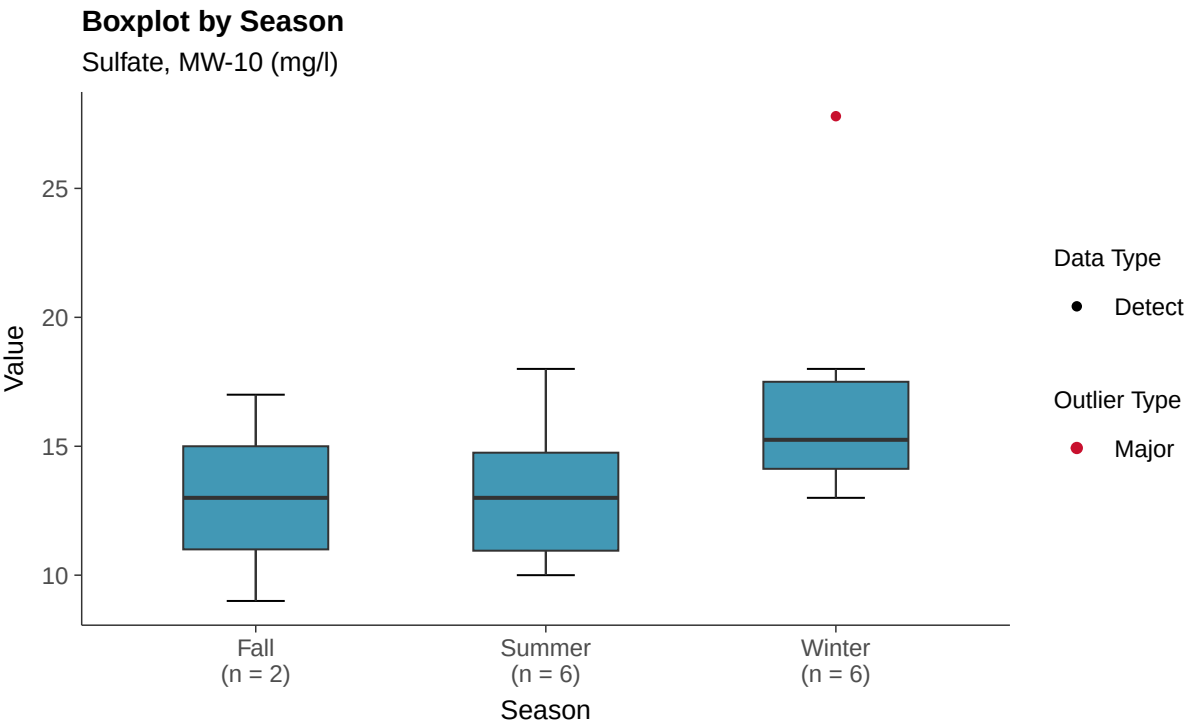
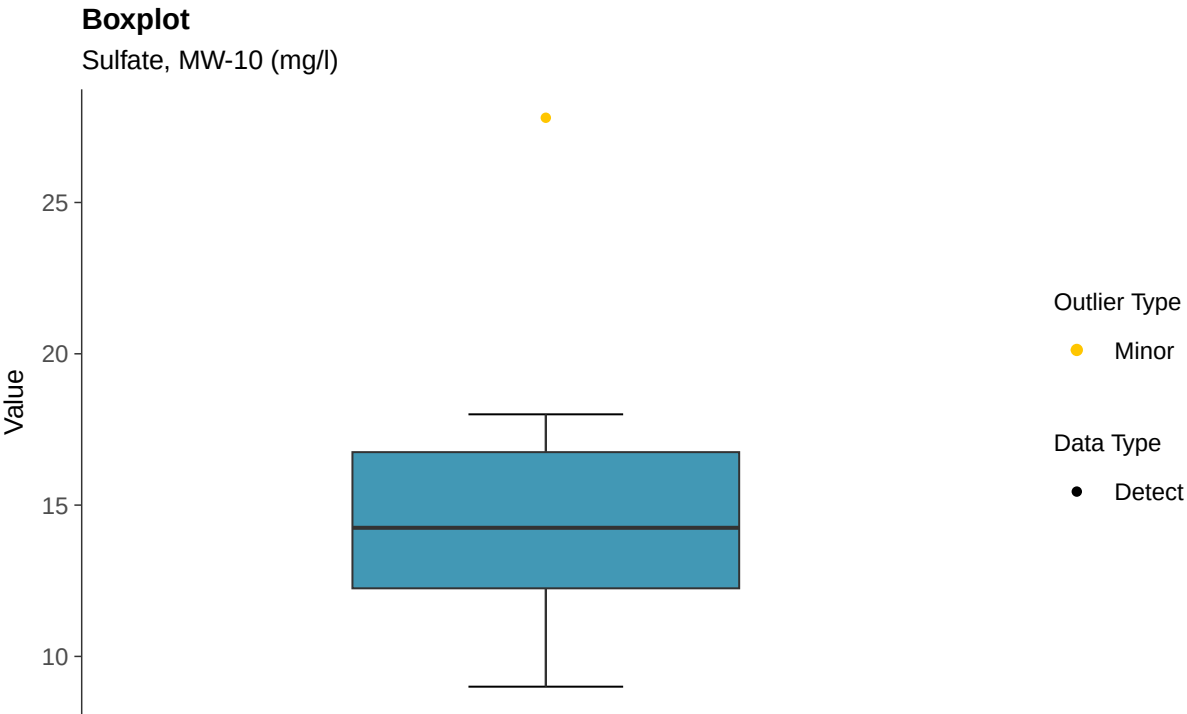


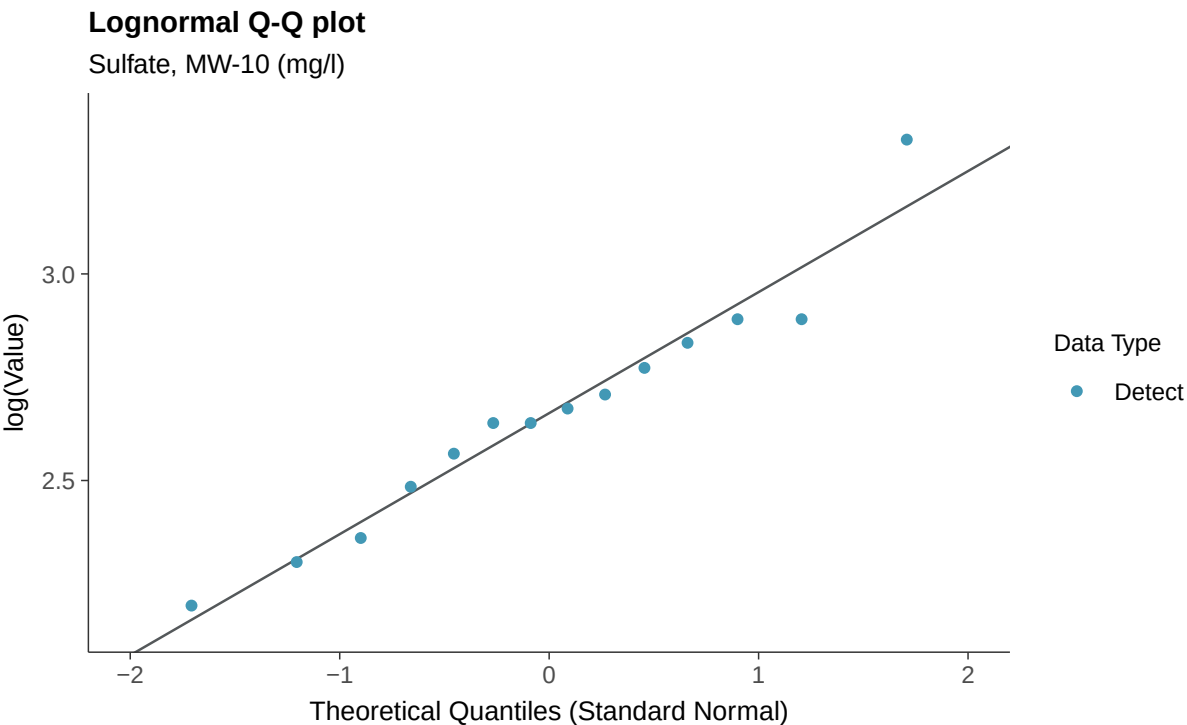
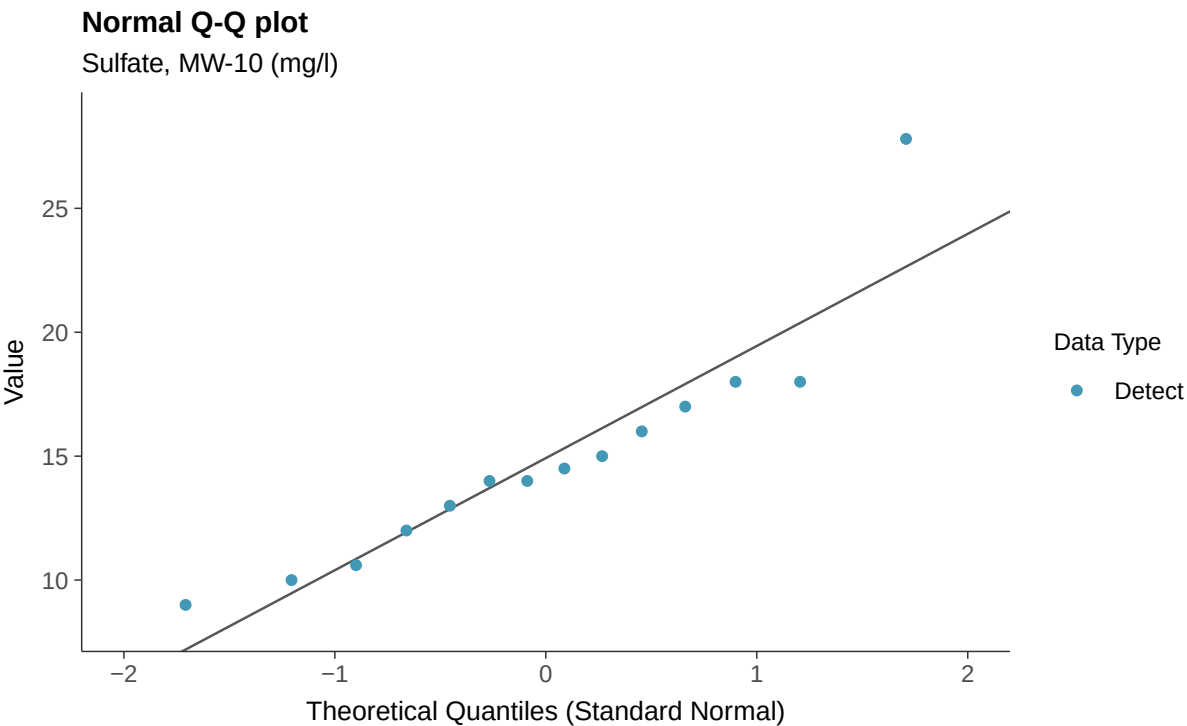


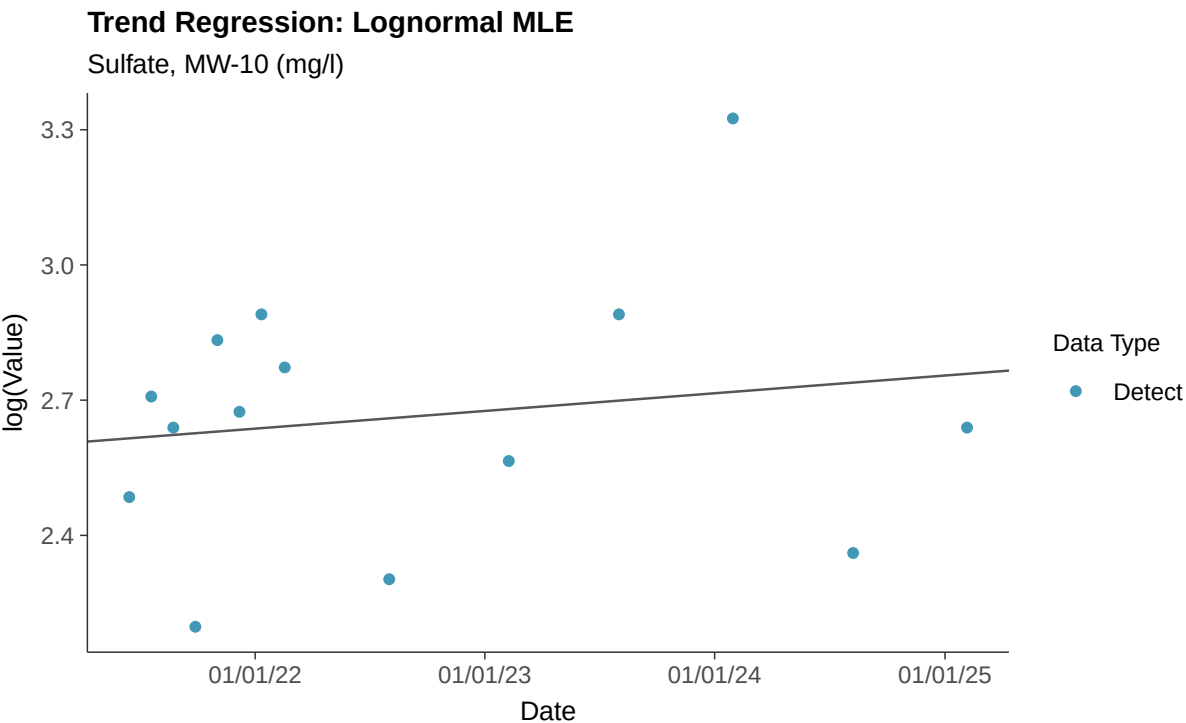
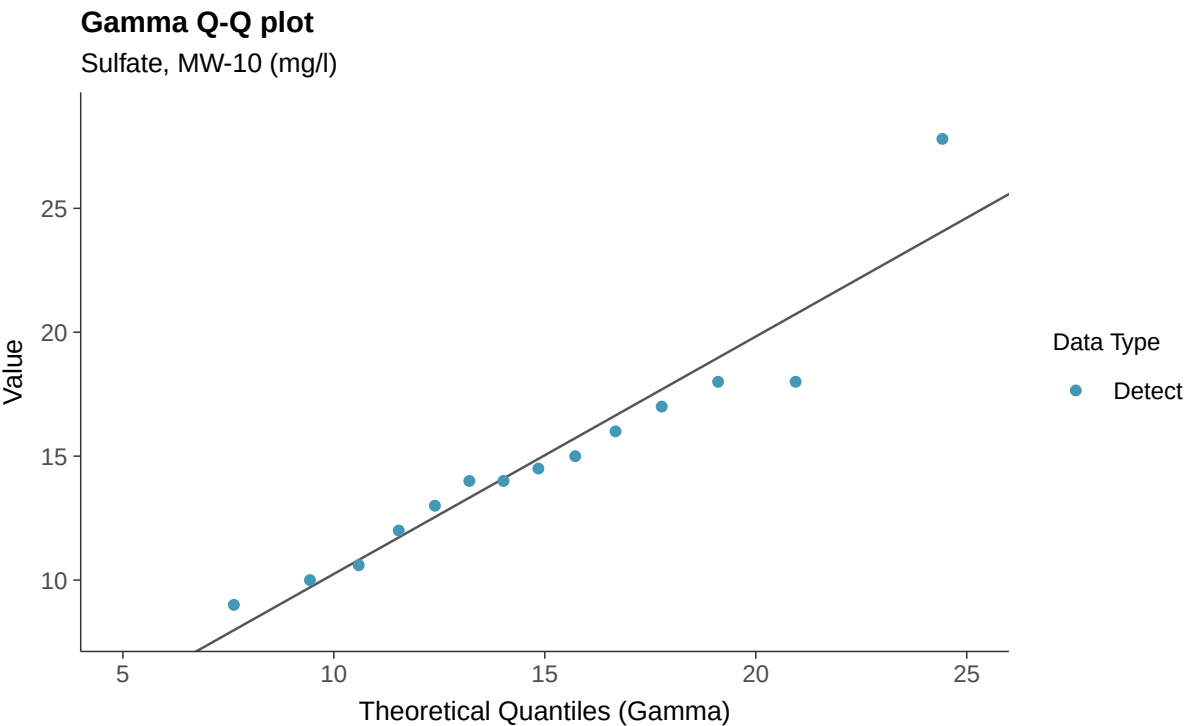
Appendix III: Sulfate, MW-10

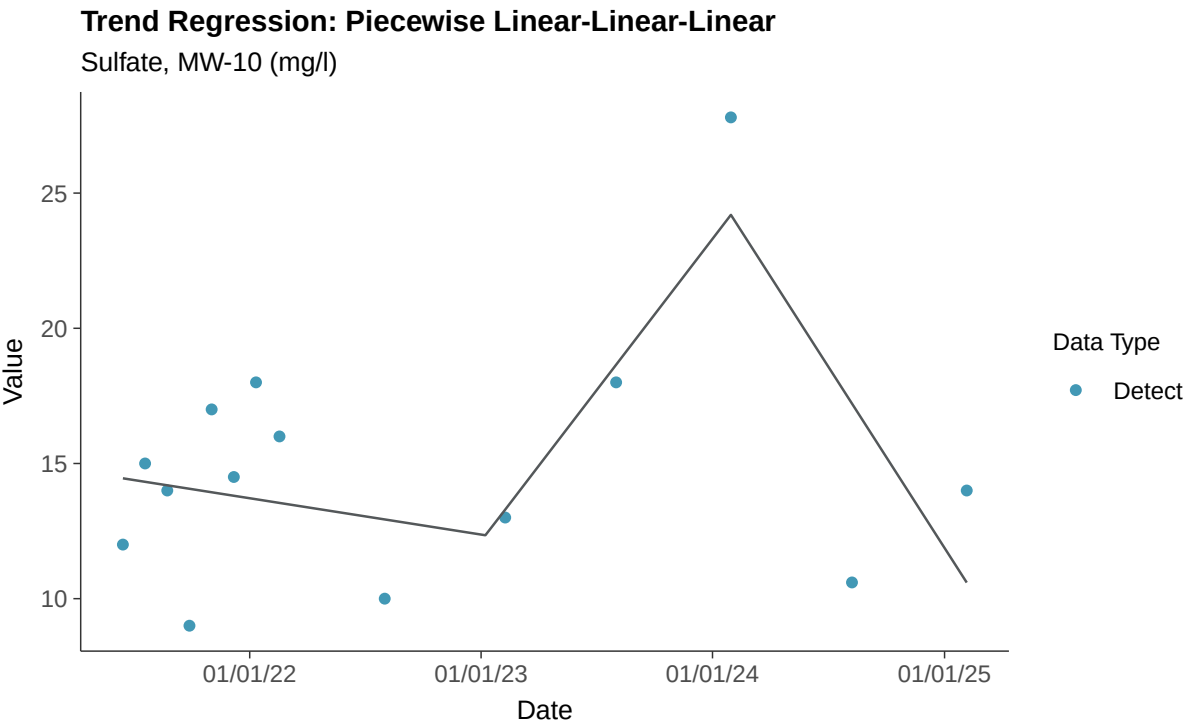
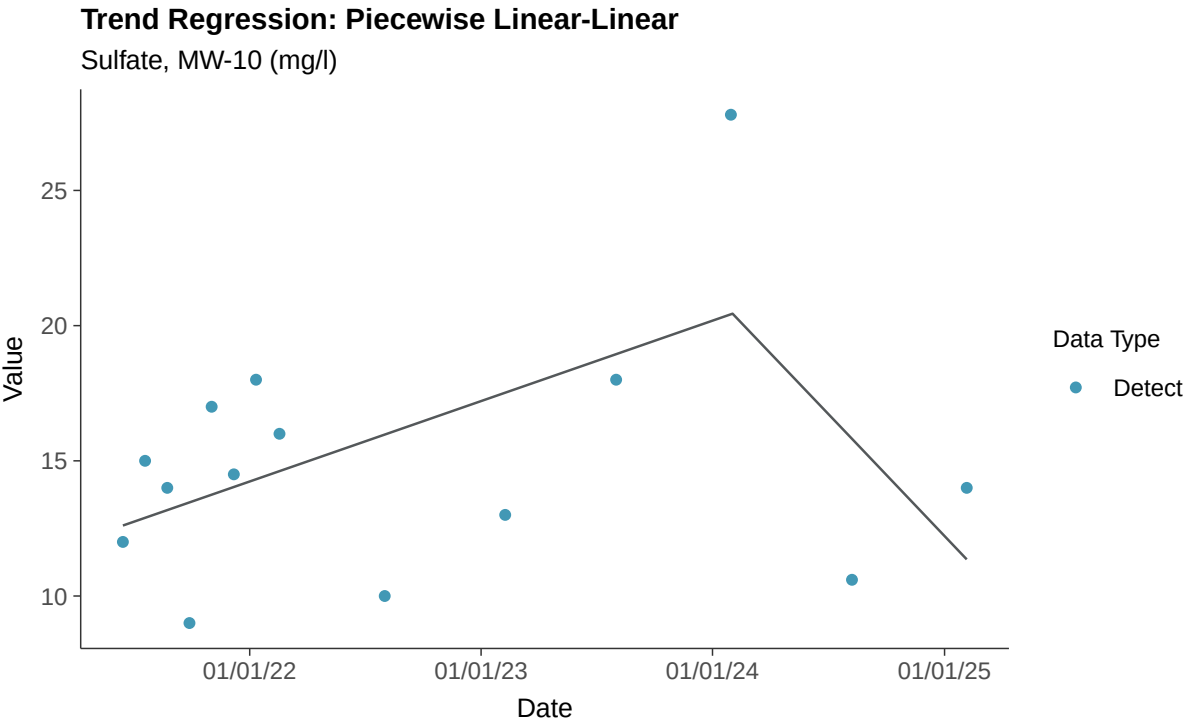
ID: 19_2_124







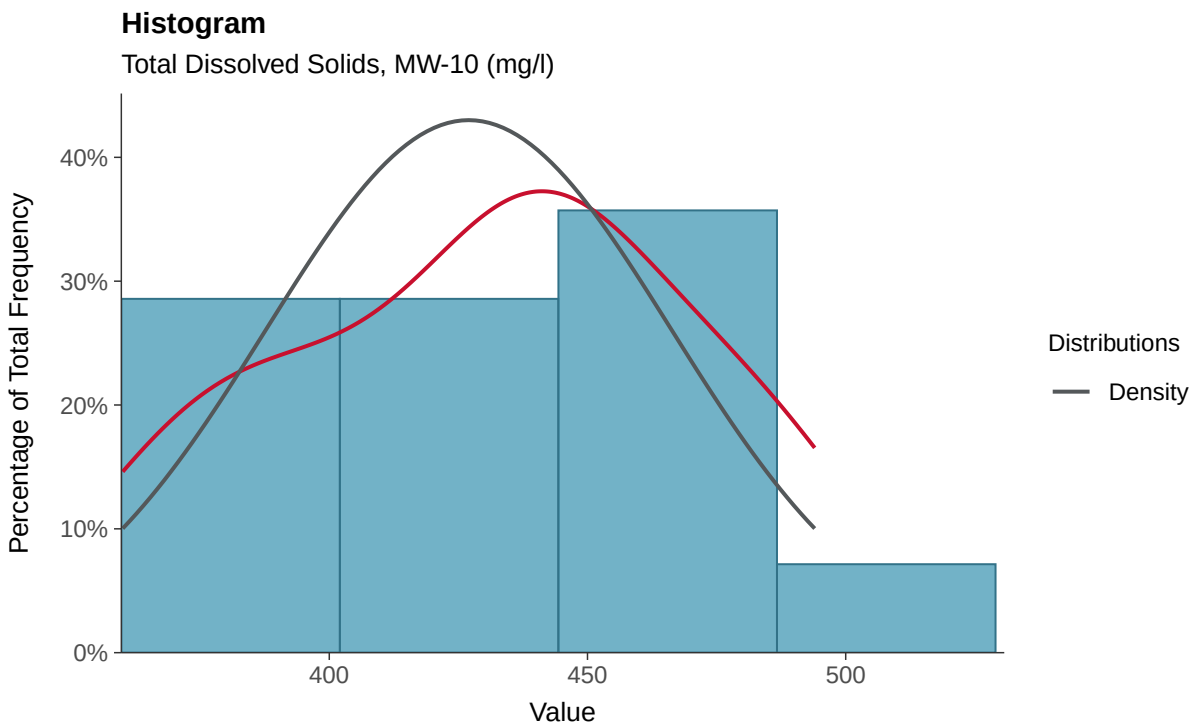
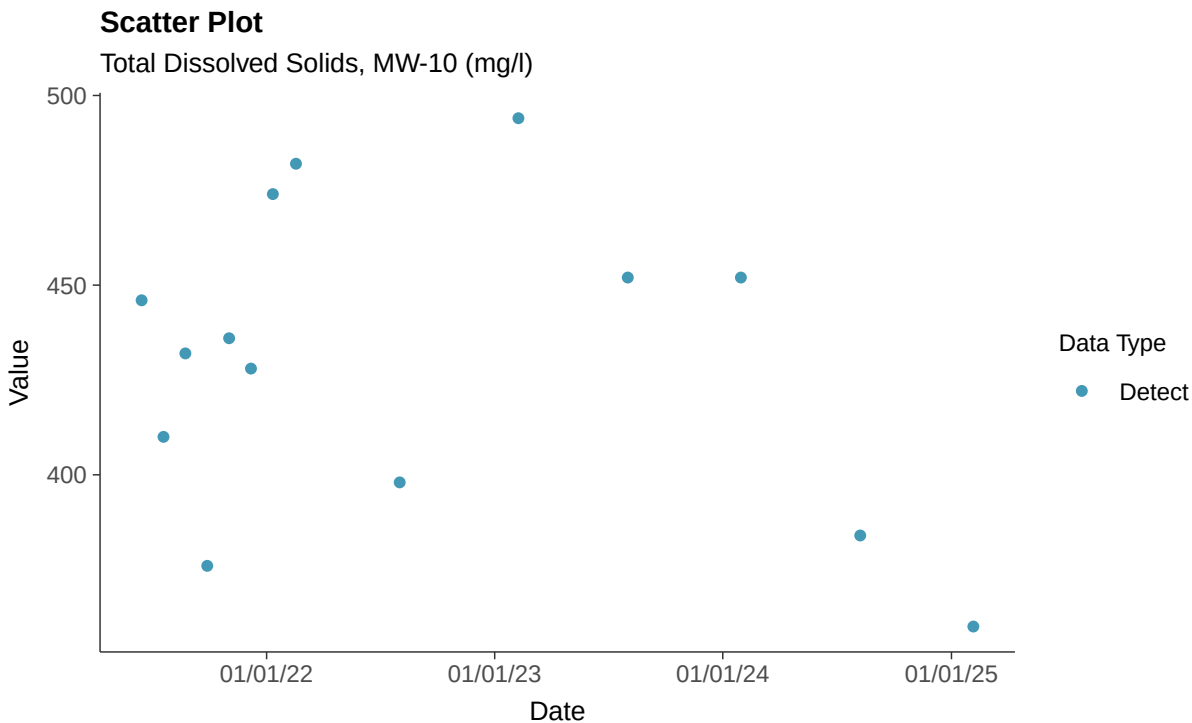


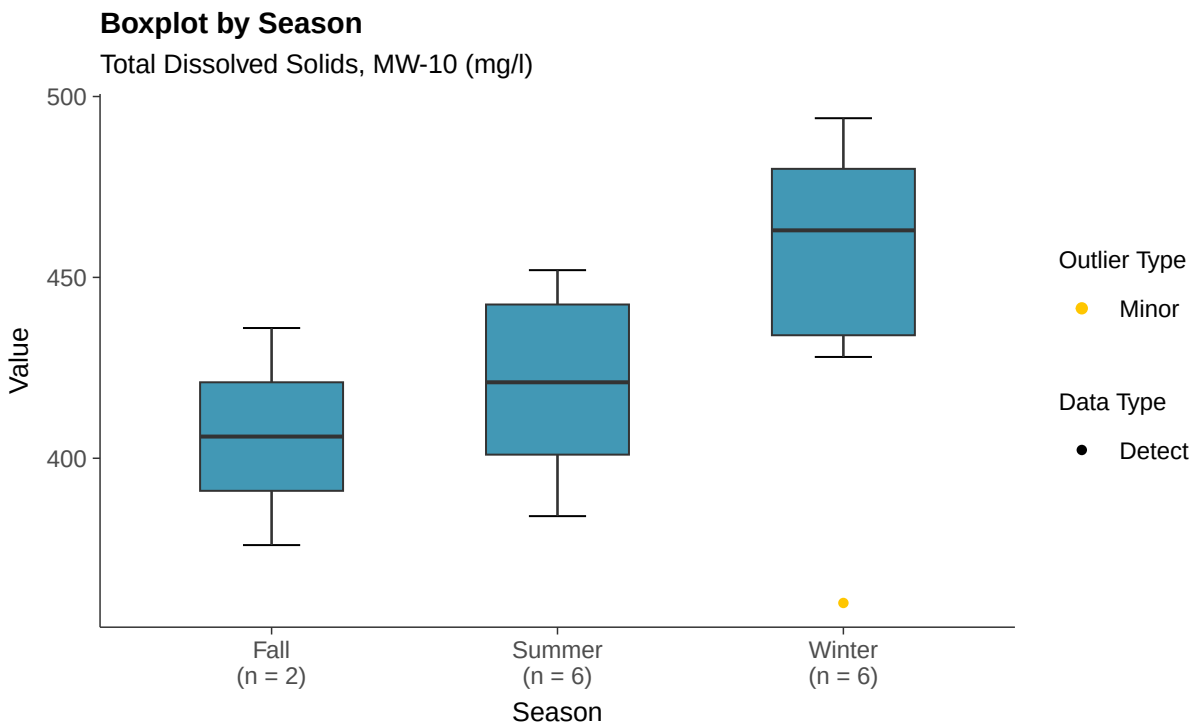
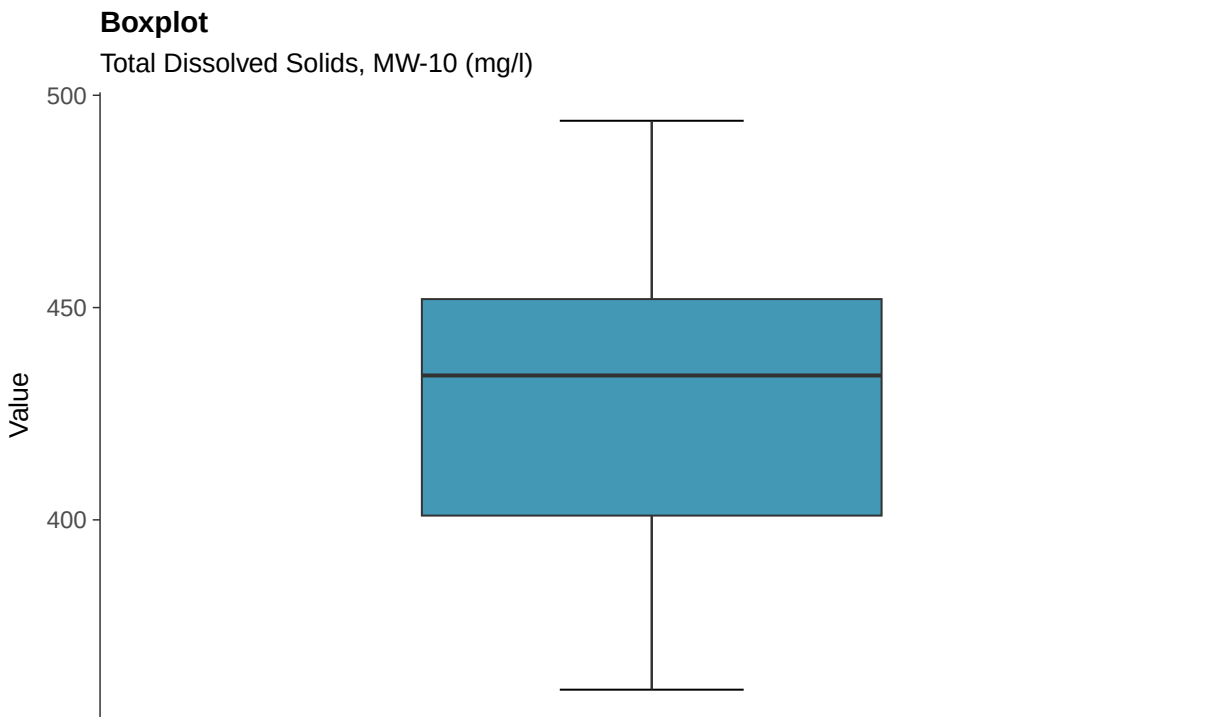


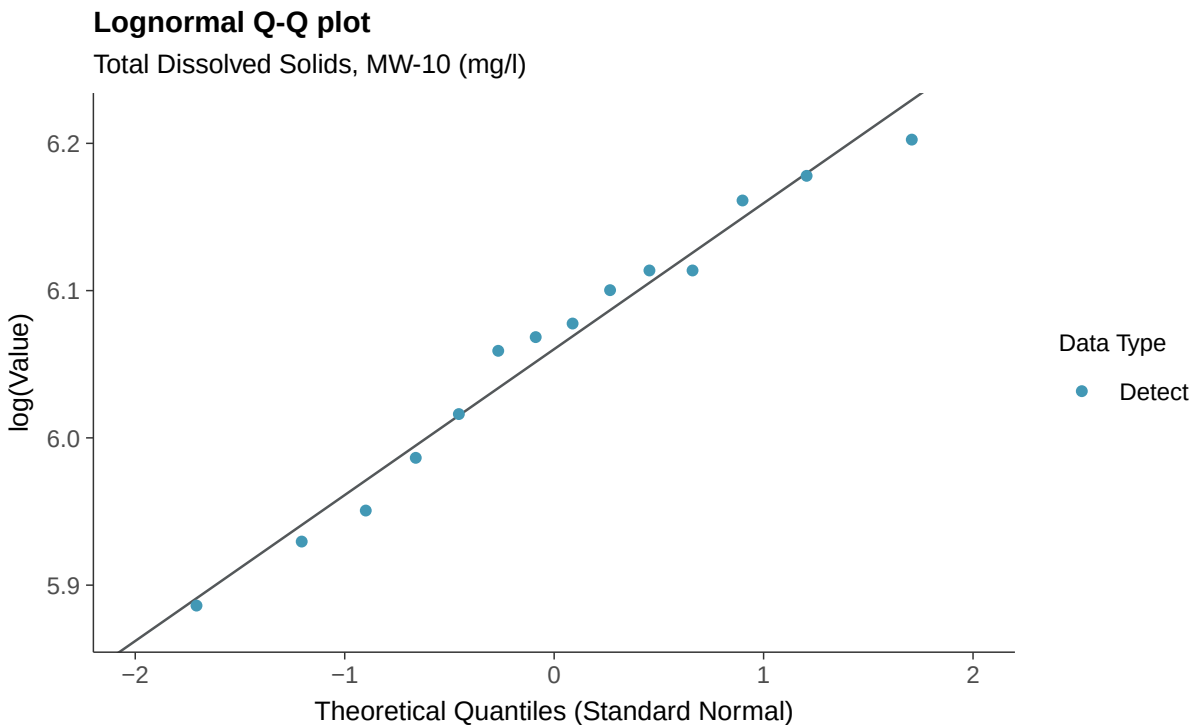
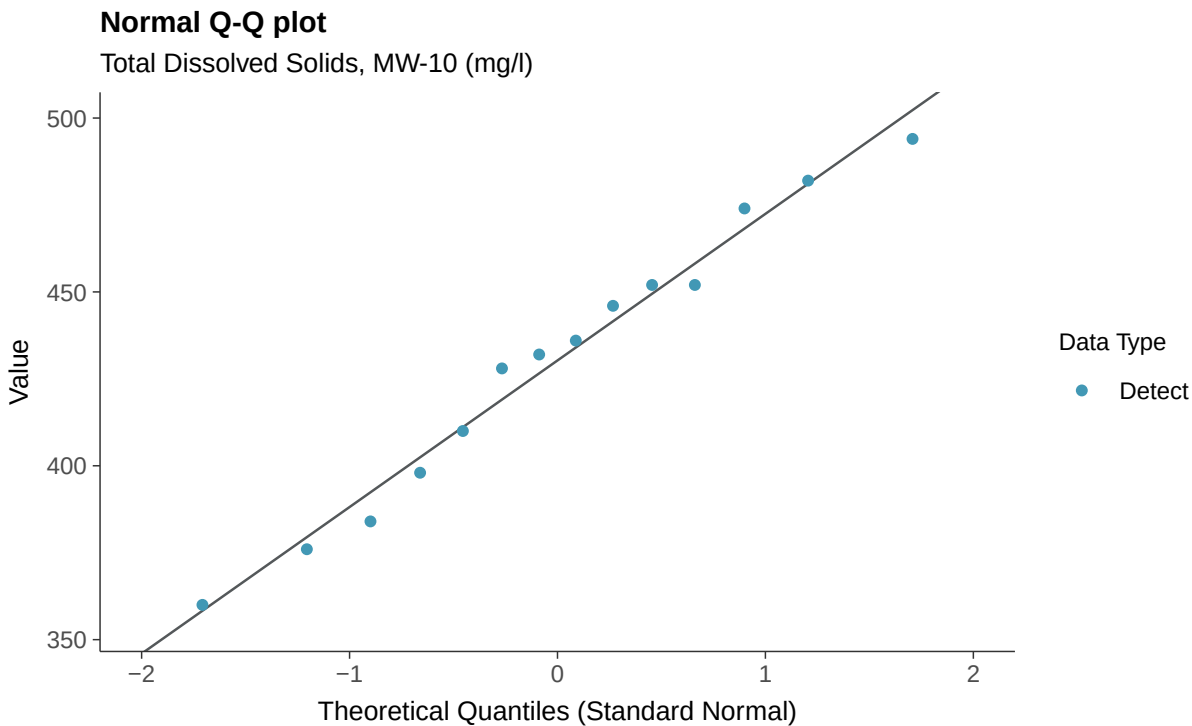


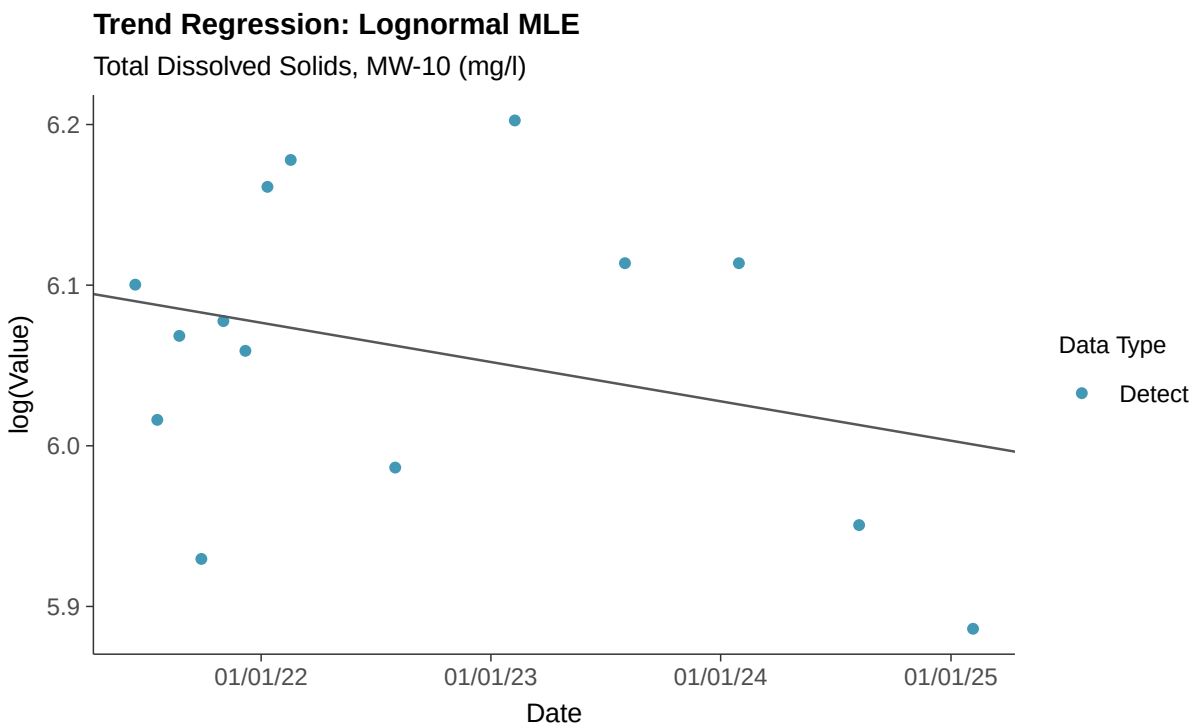
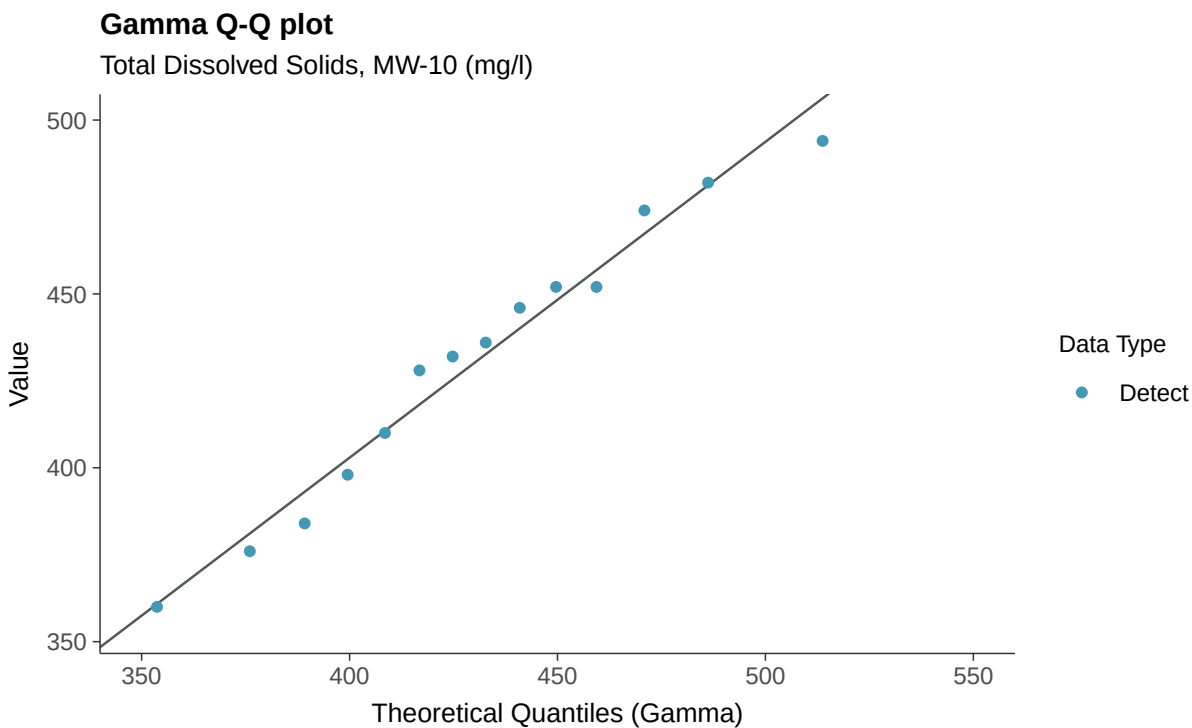
Appendix III: Total Dissolved Solids, MW-10

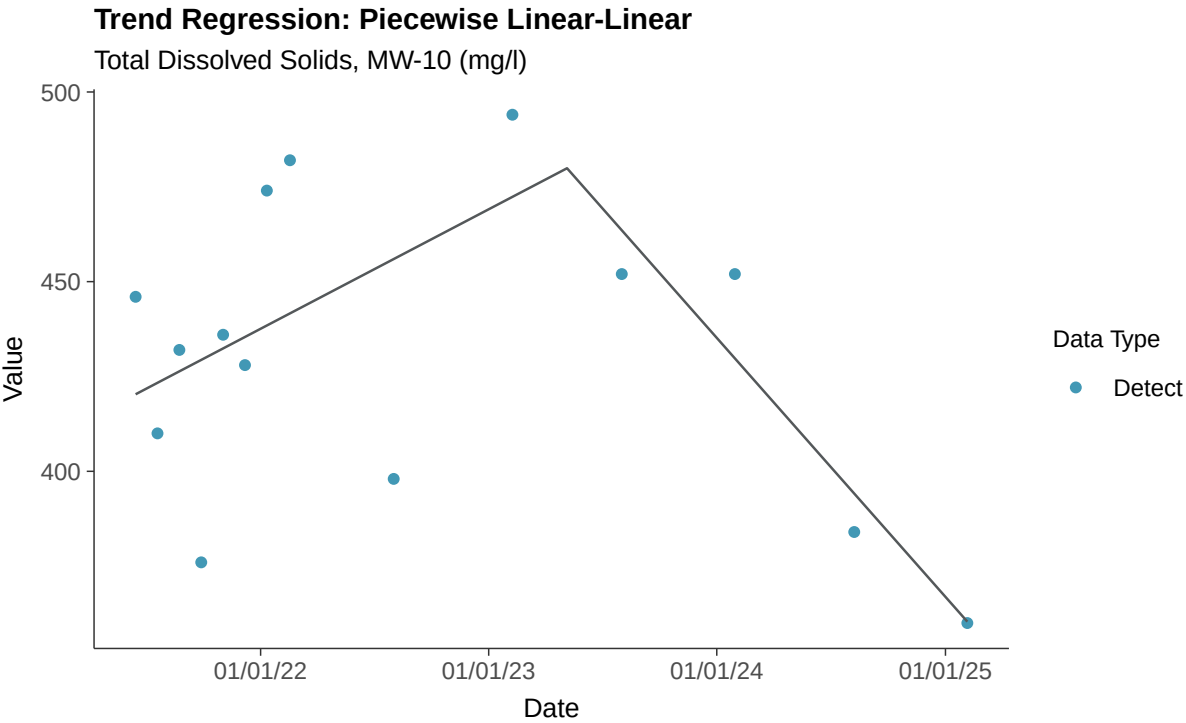
ID: 19_2_126

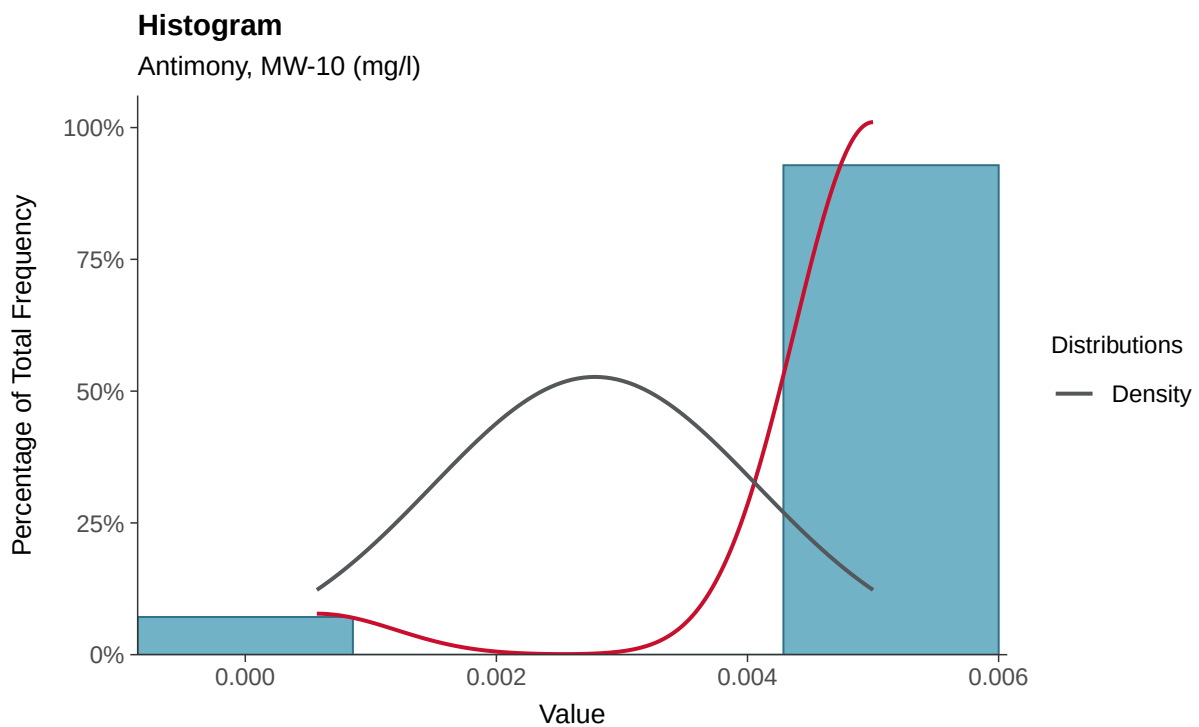


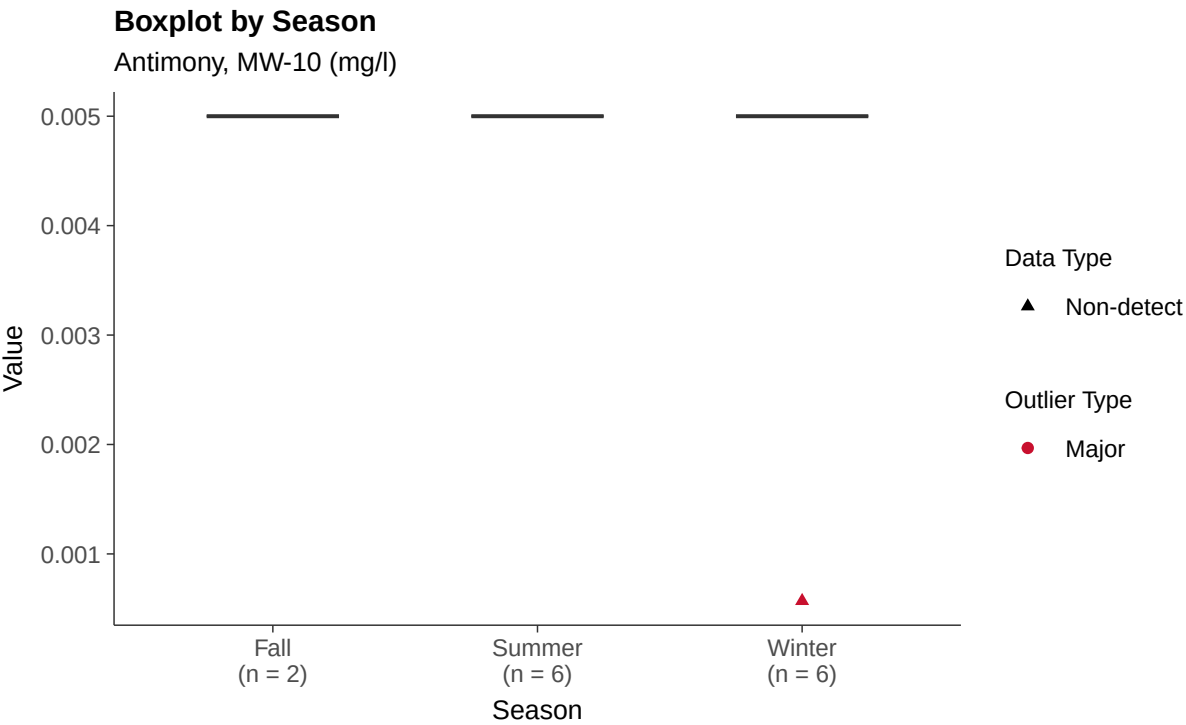
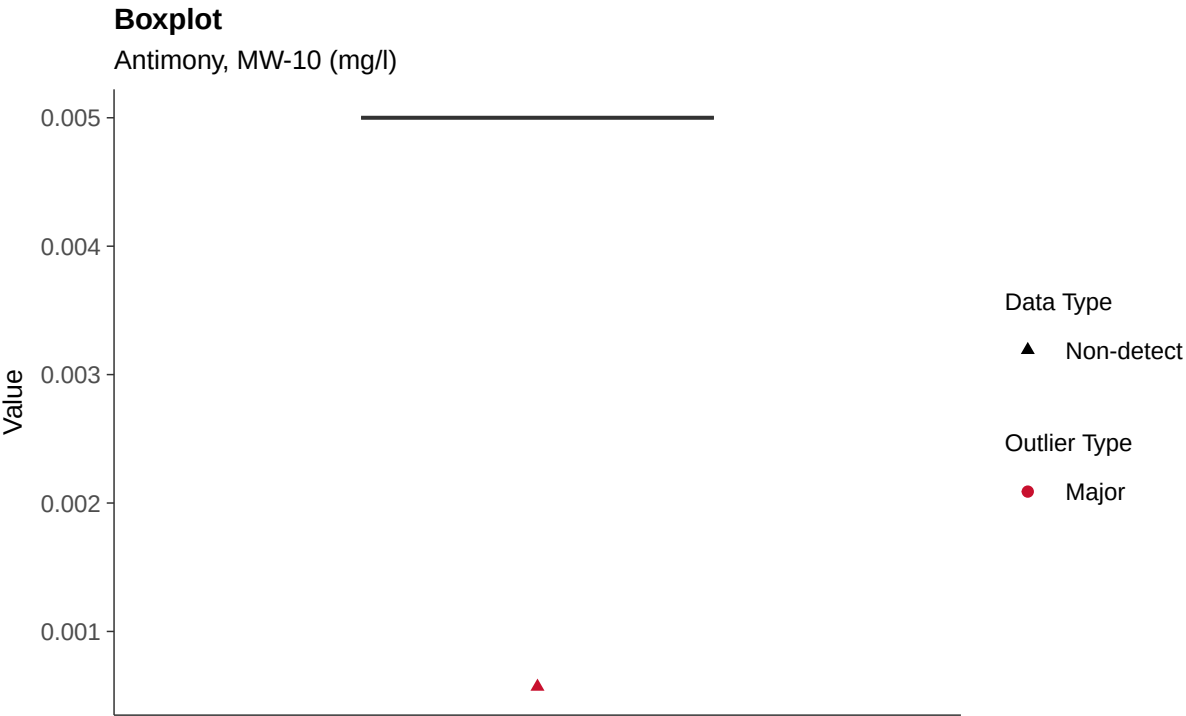








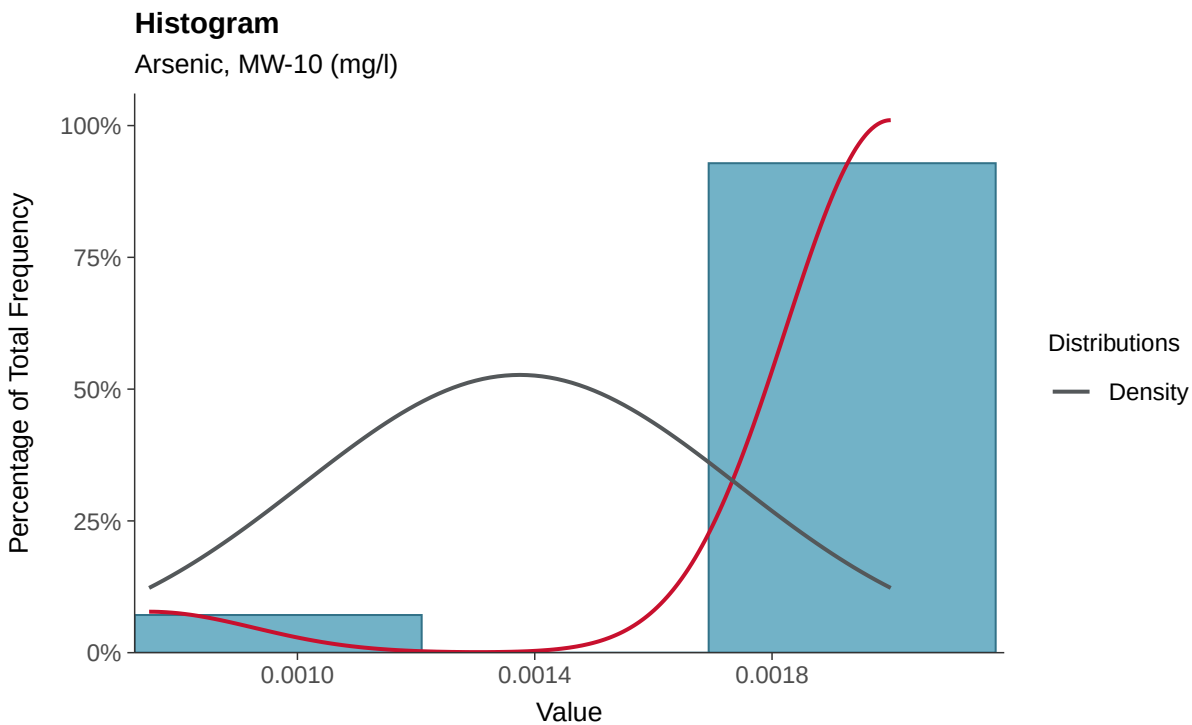
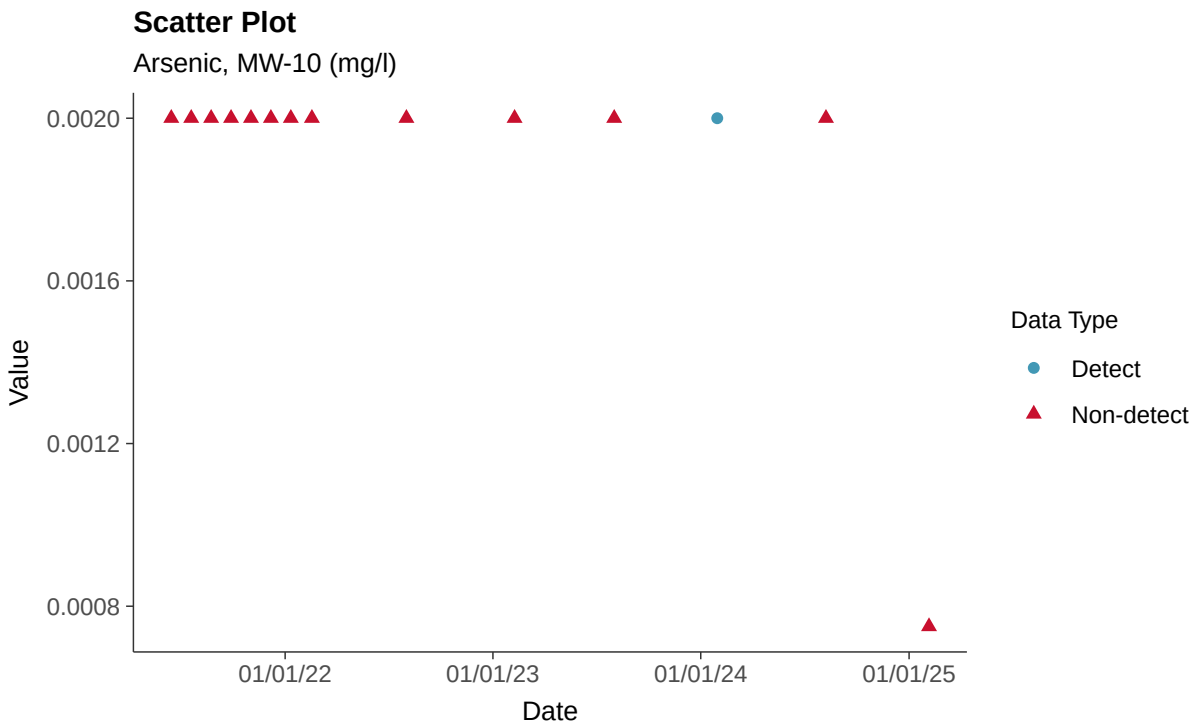


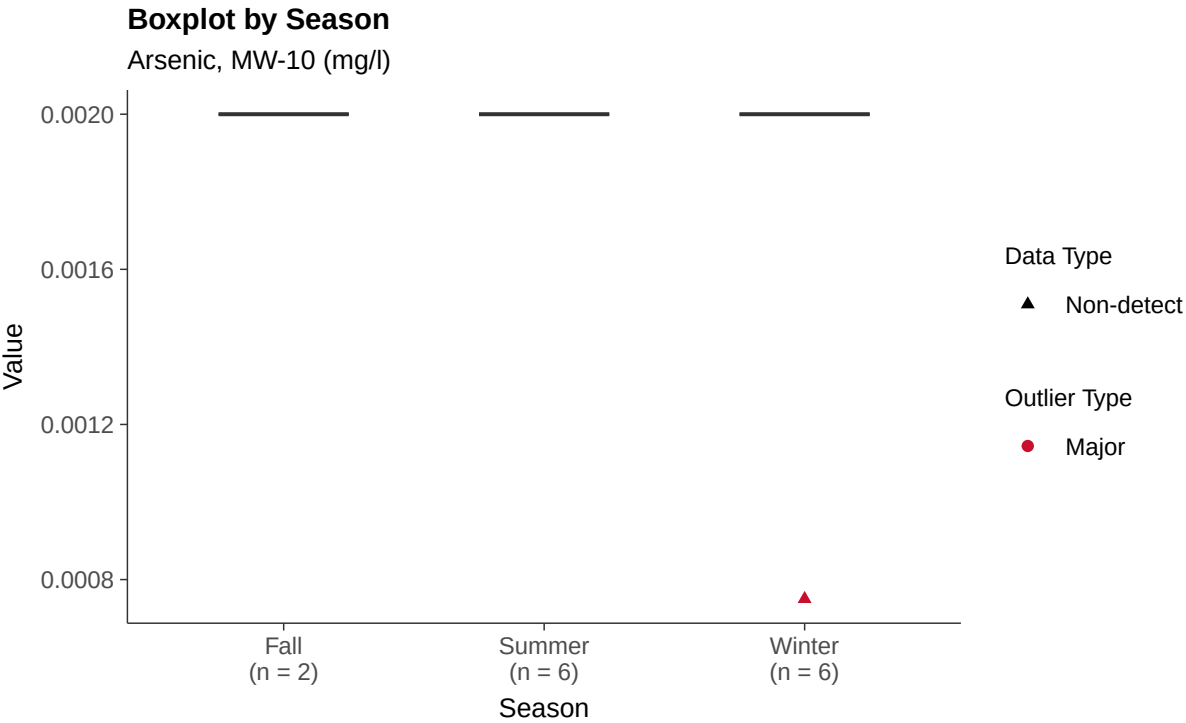
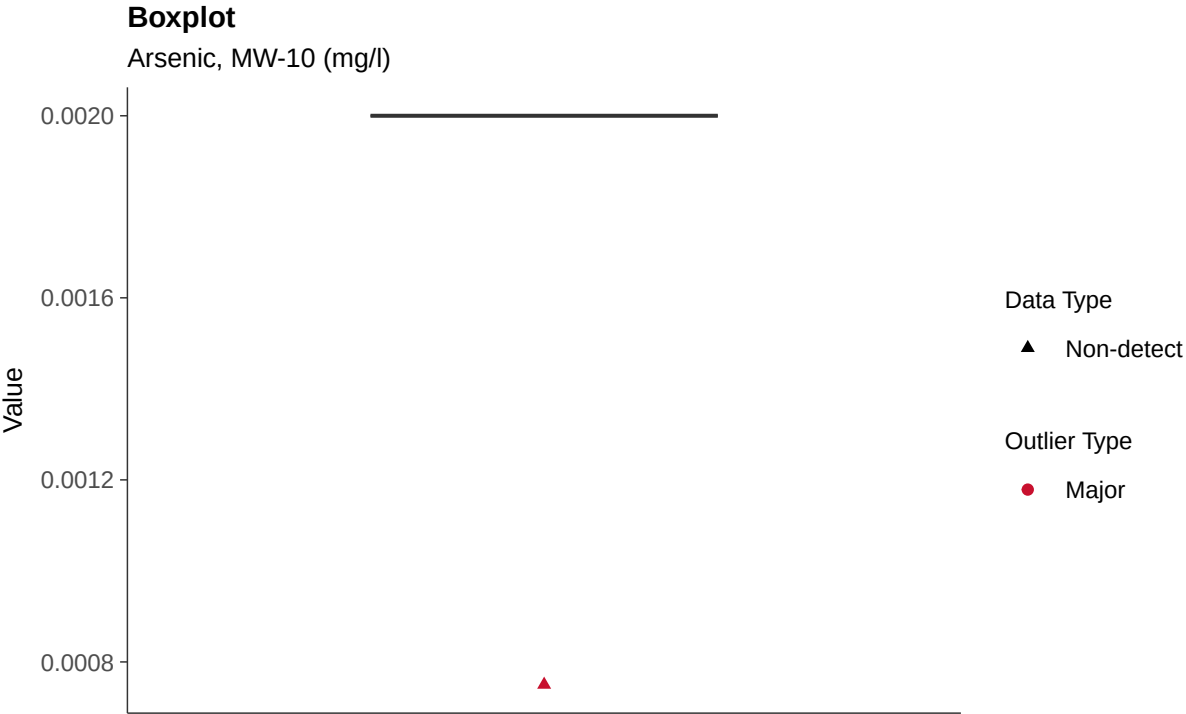


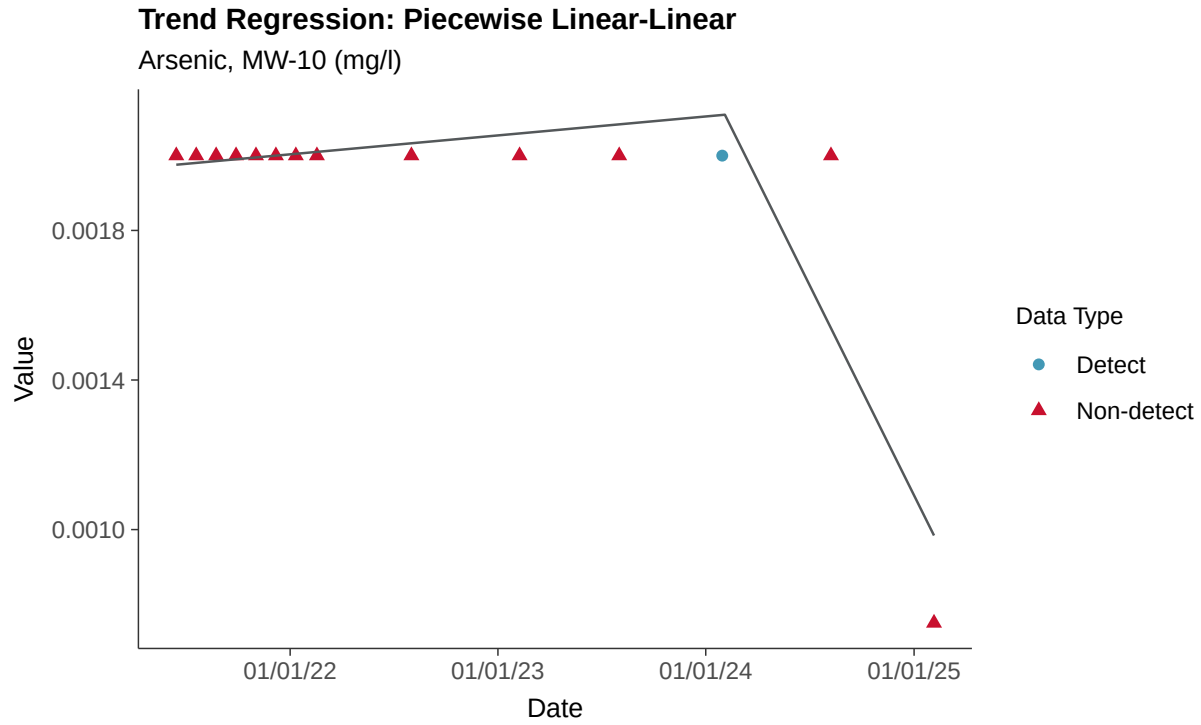


Appendix IV: Arsenic, MW-10

ID: 19_3_102



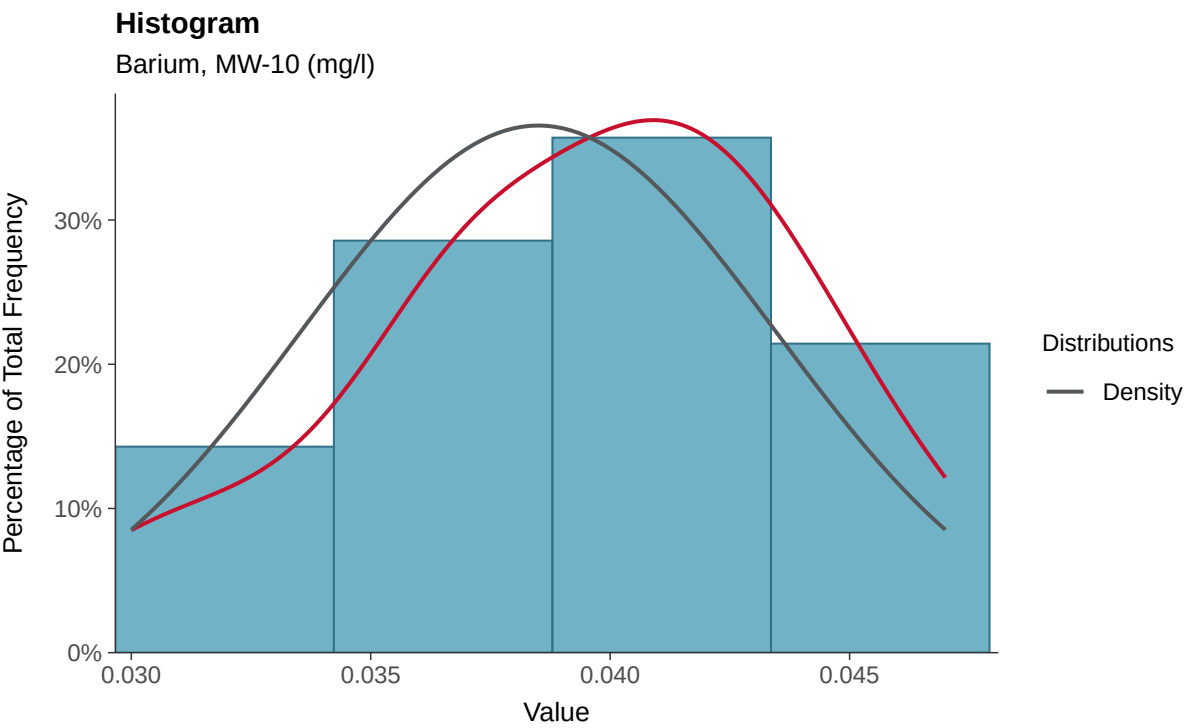
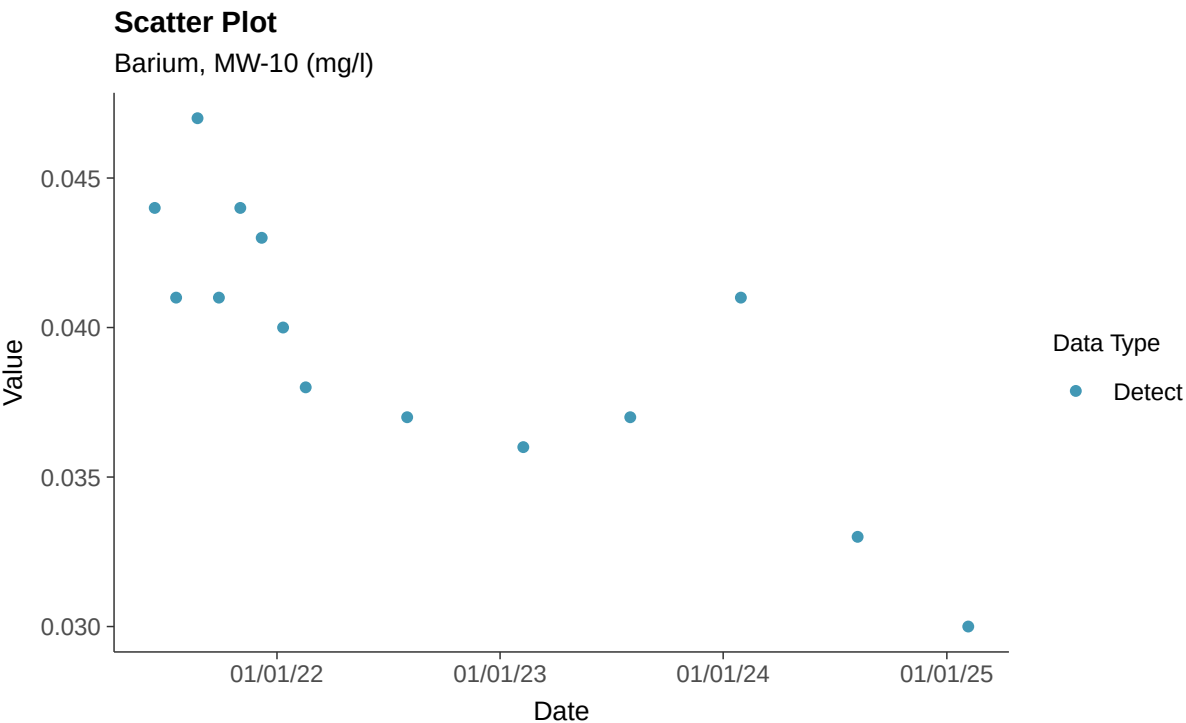


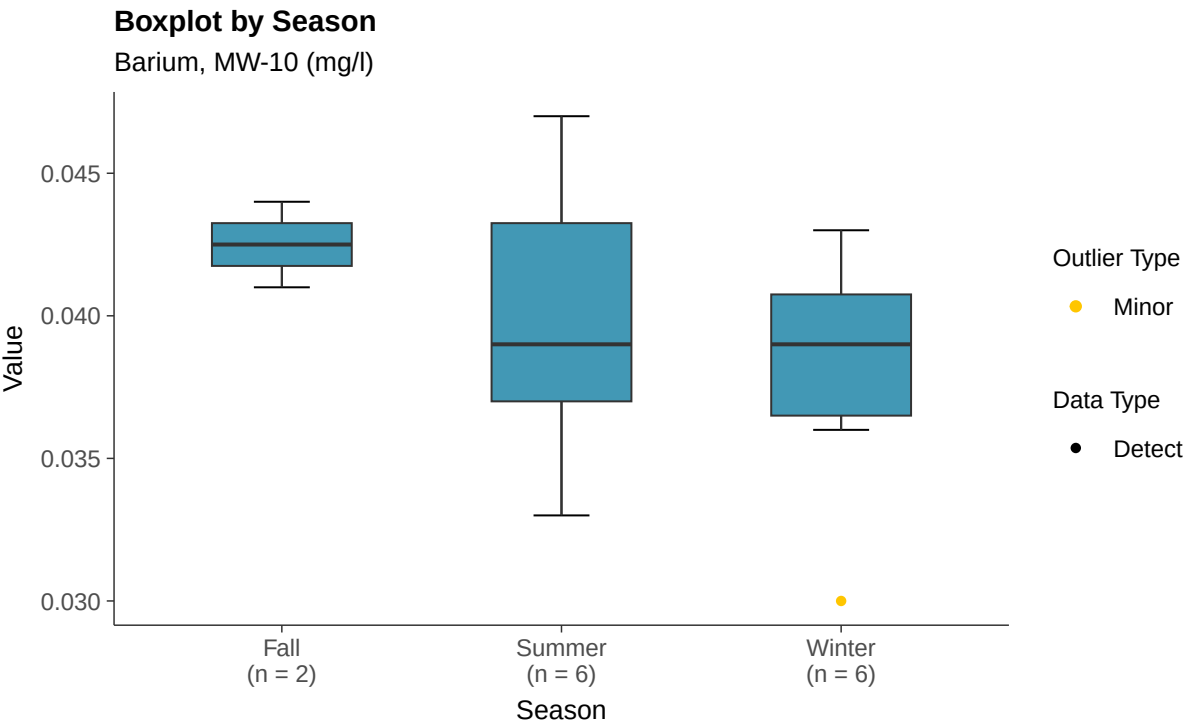
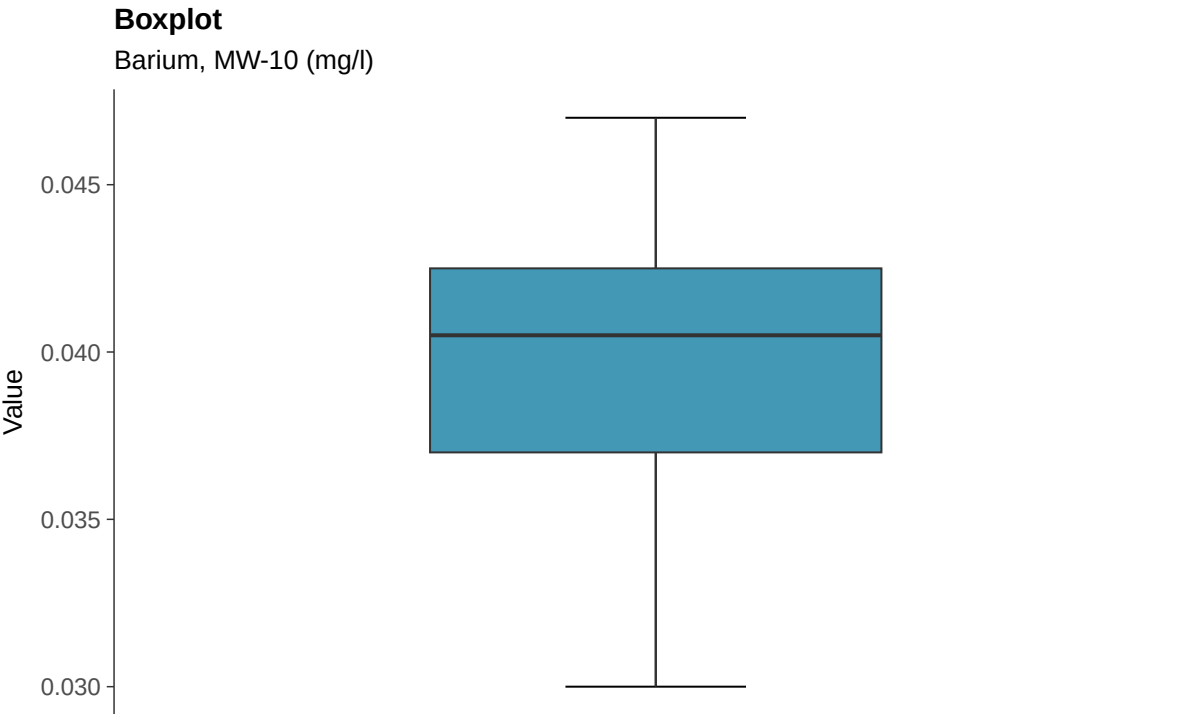


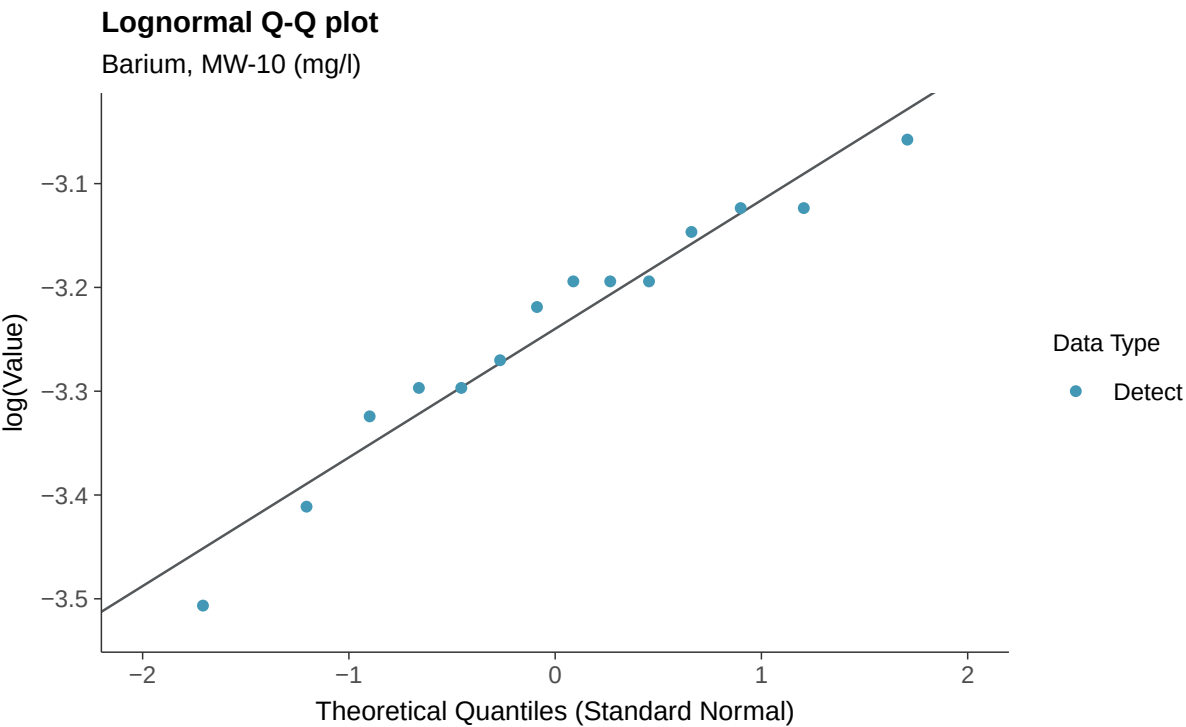
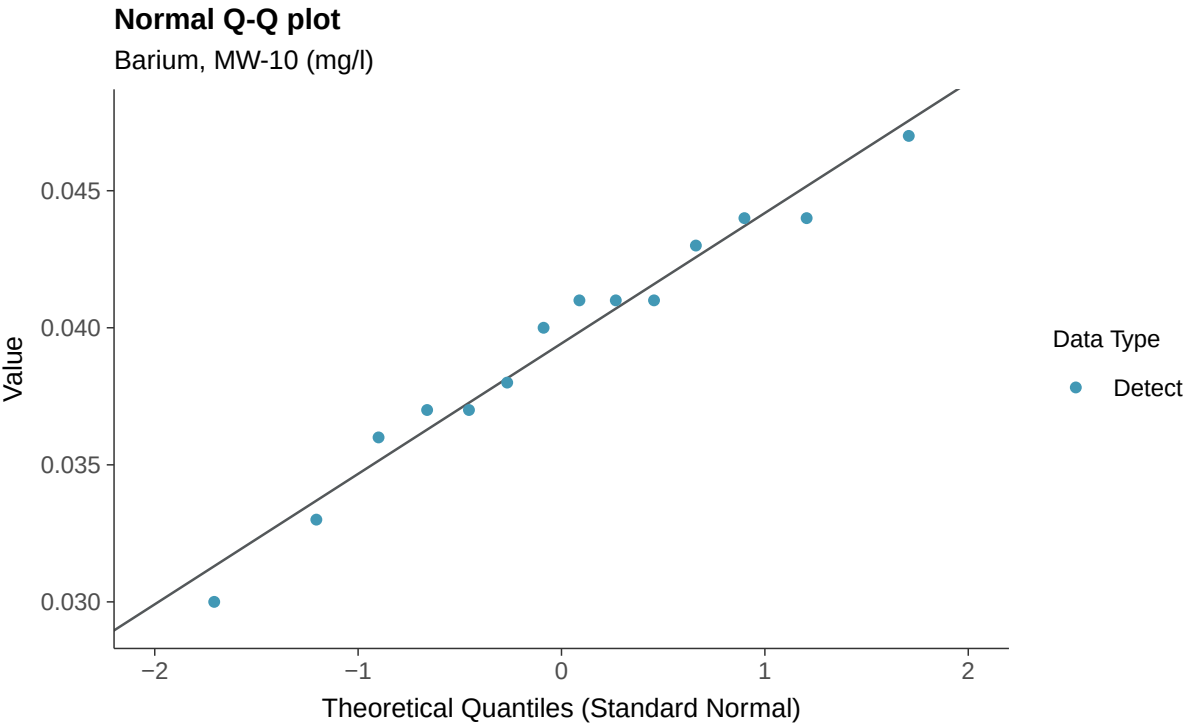


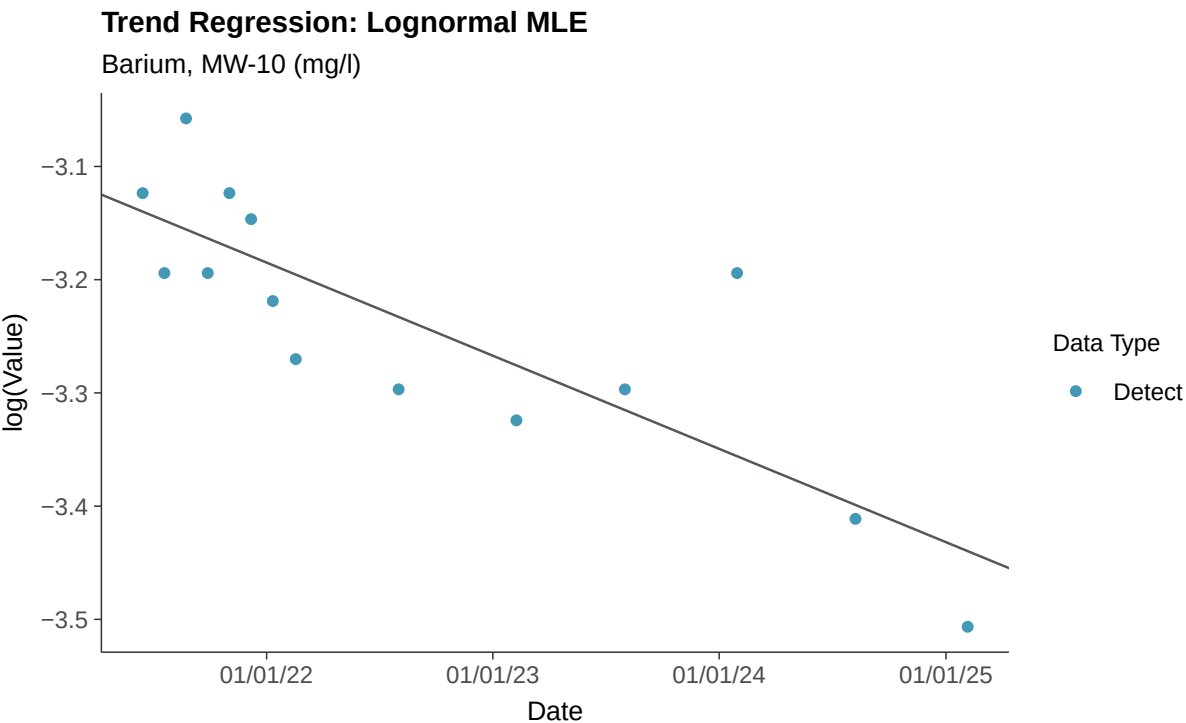
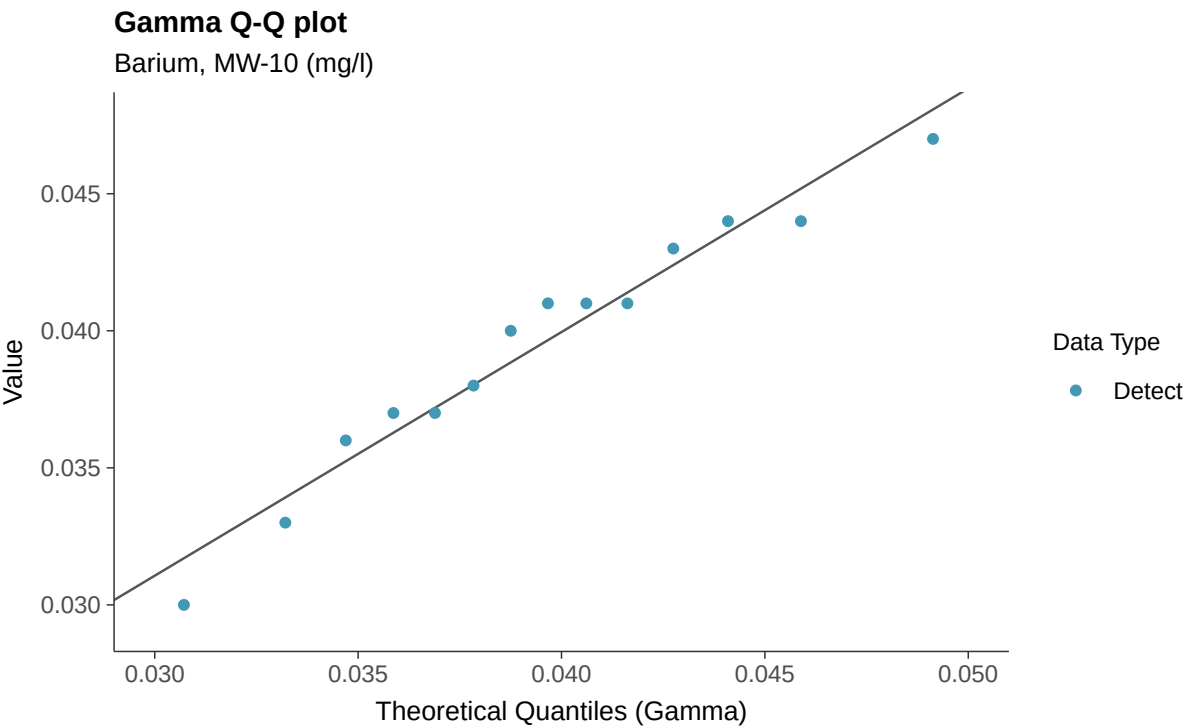
Appendix IV: Barium, MW-10

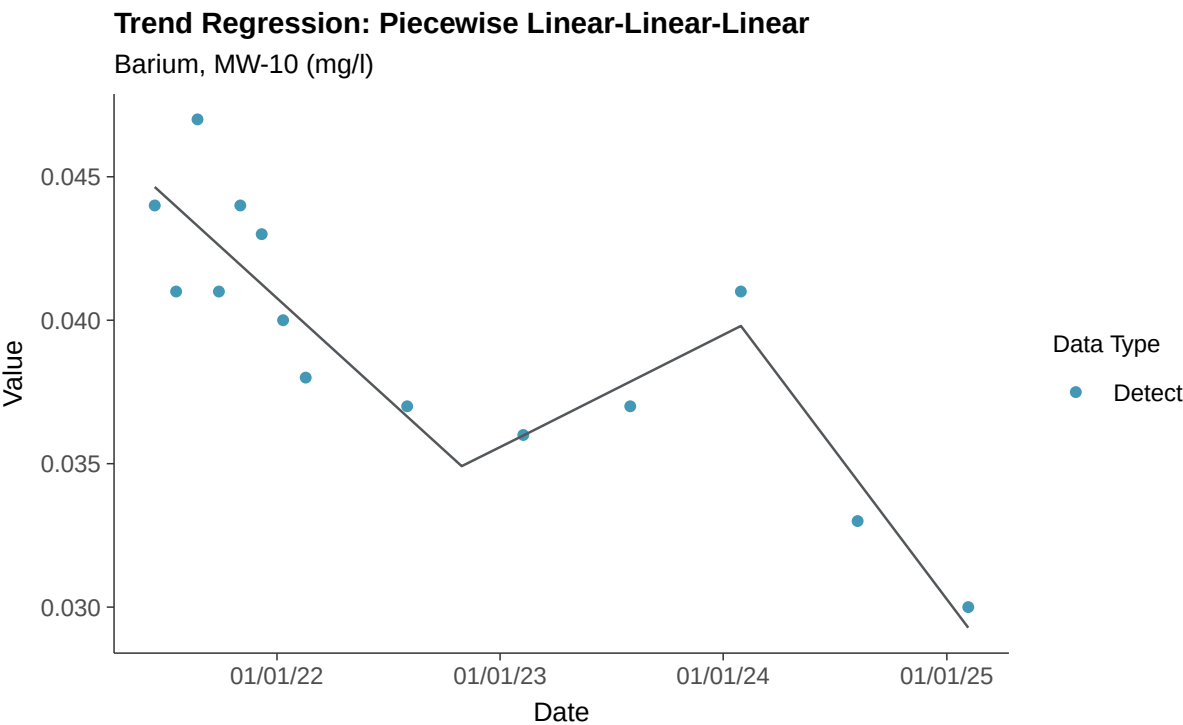
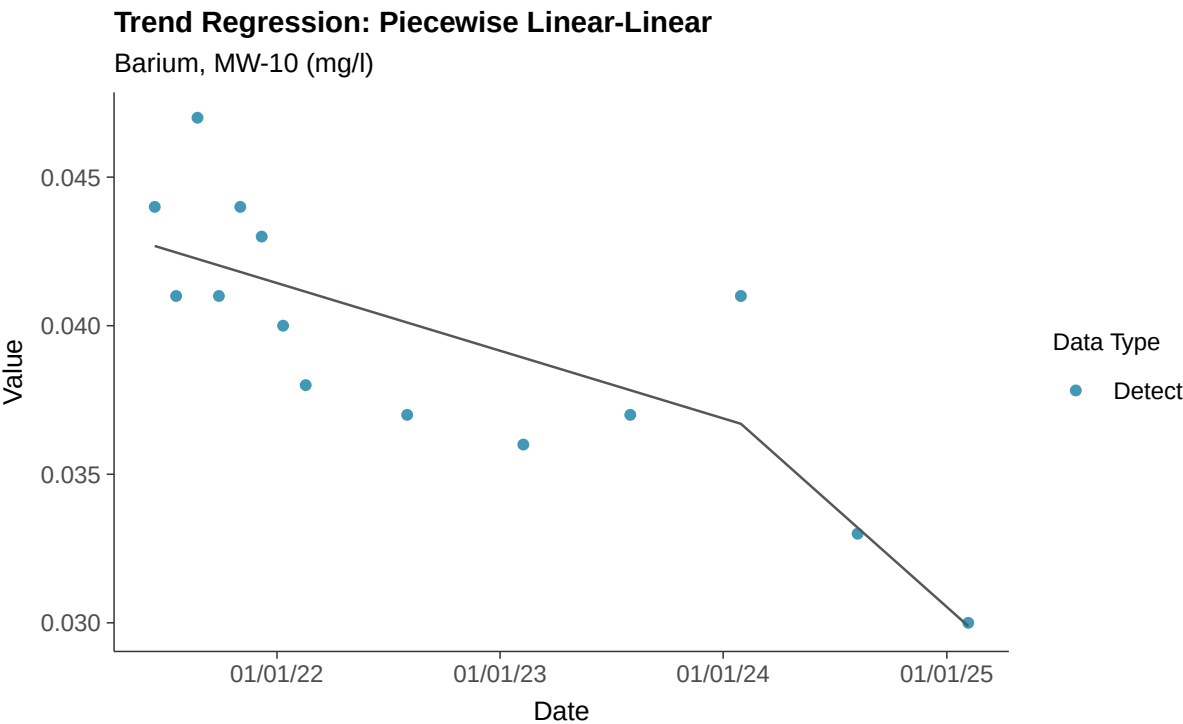
ID: 19_3_103







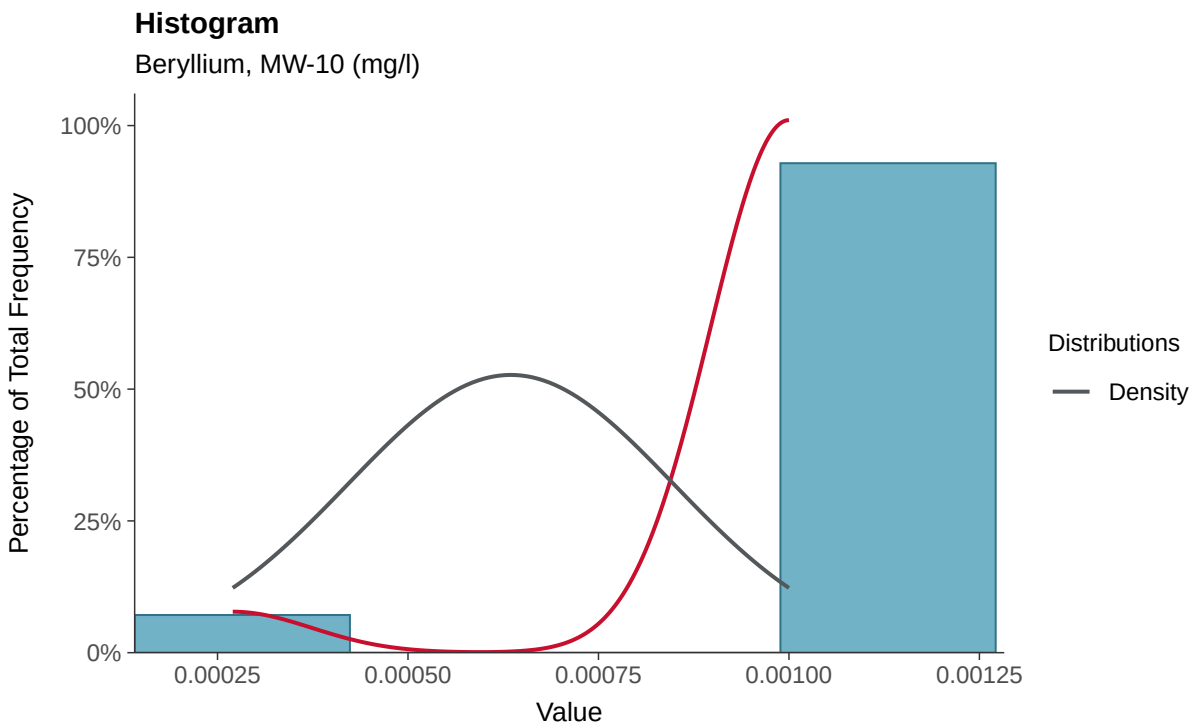
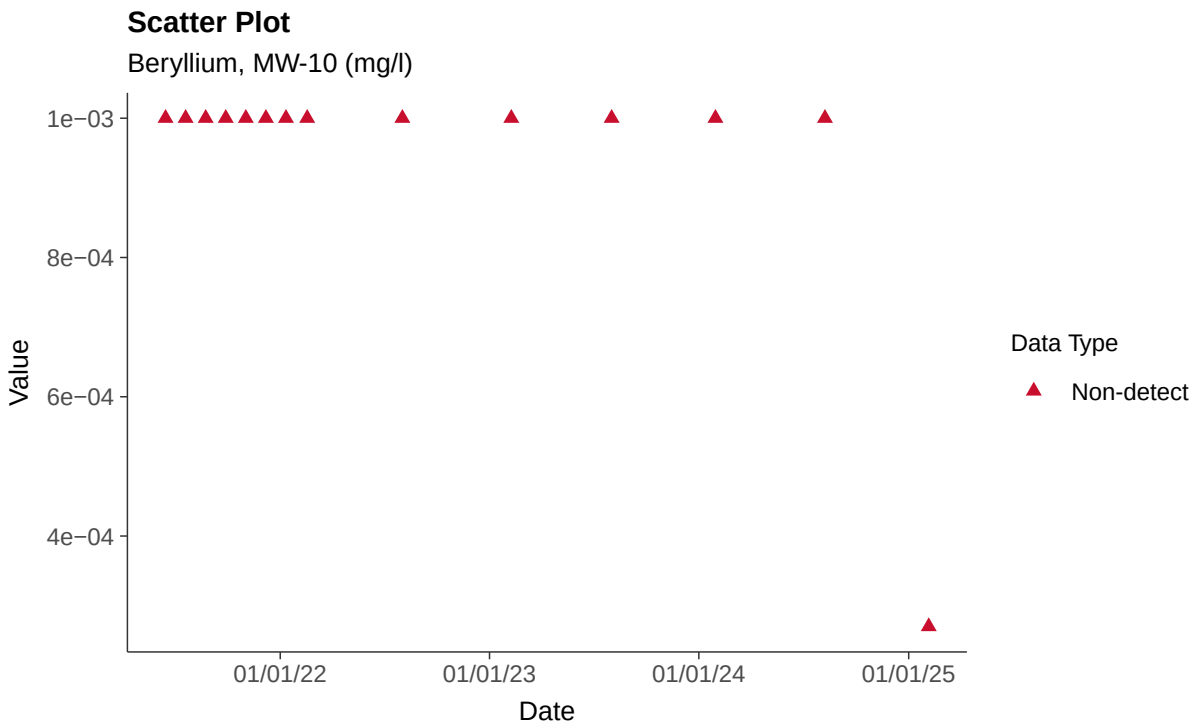


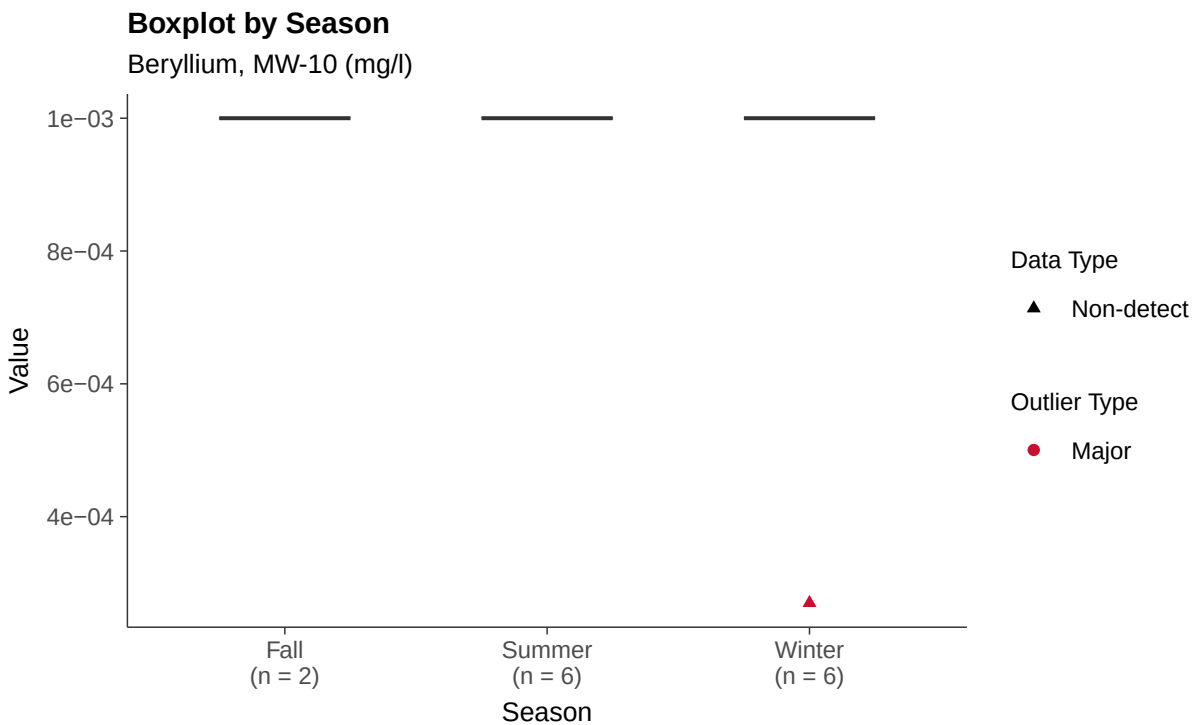
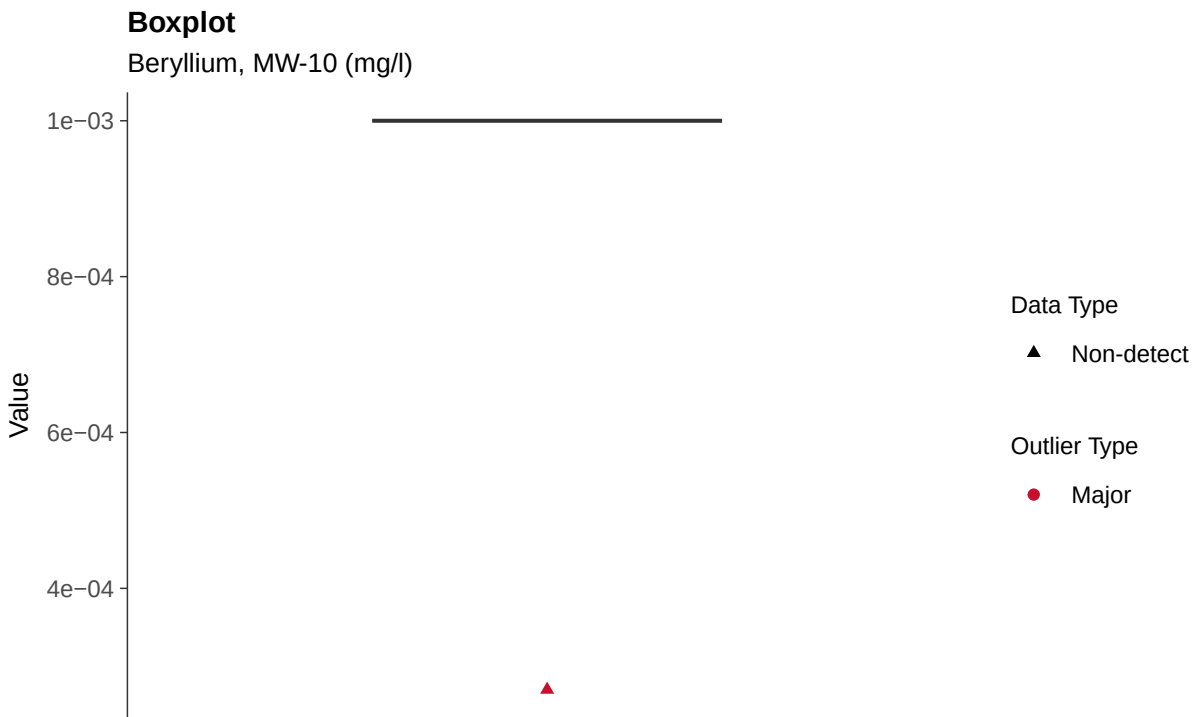


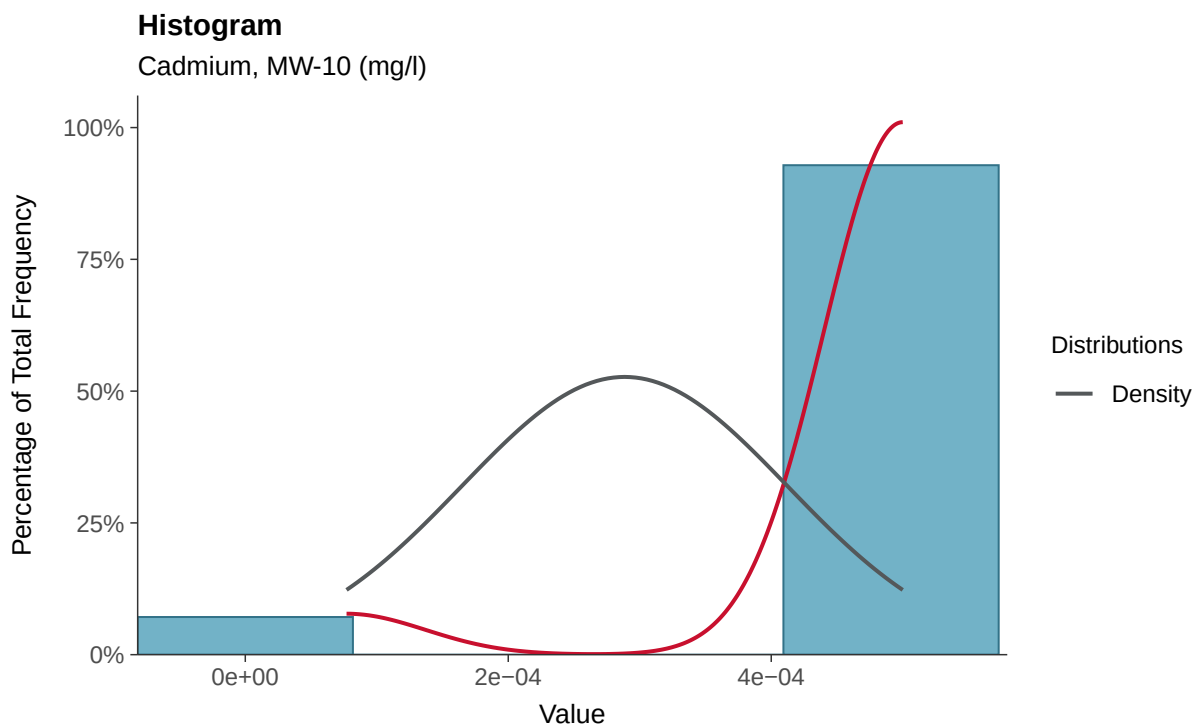


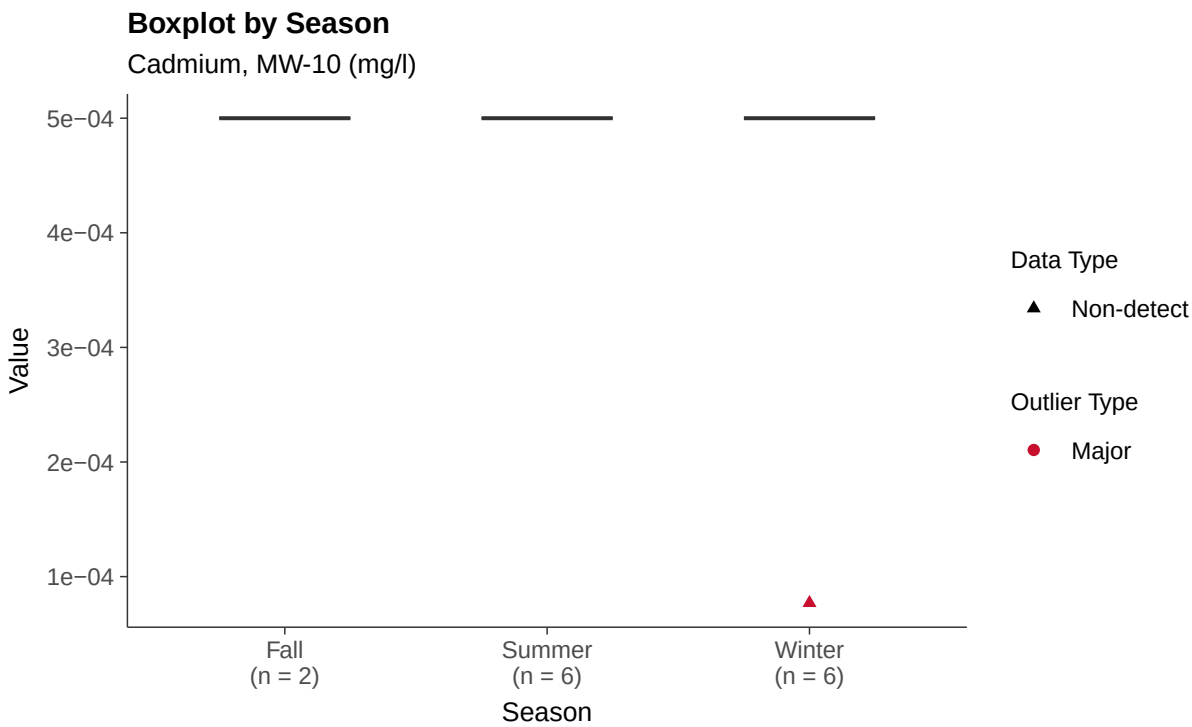
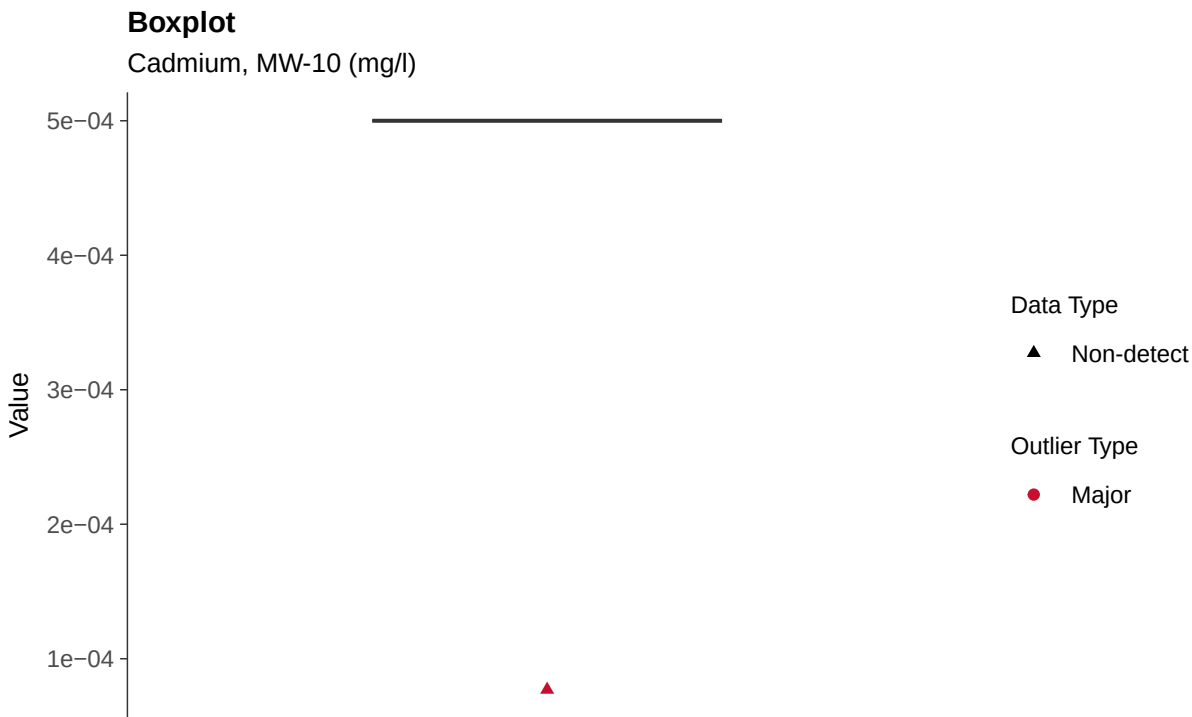
Appendix IV: Beryllium, MW-10

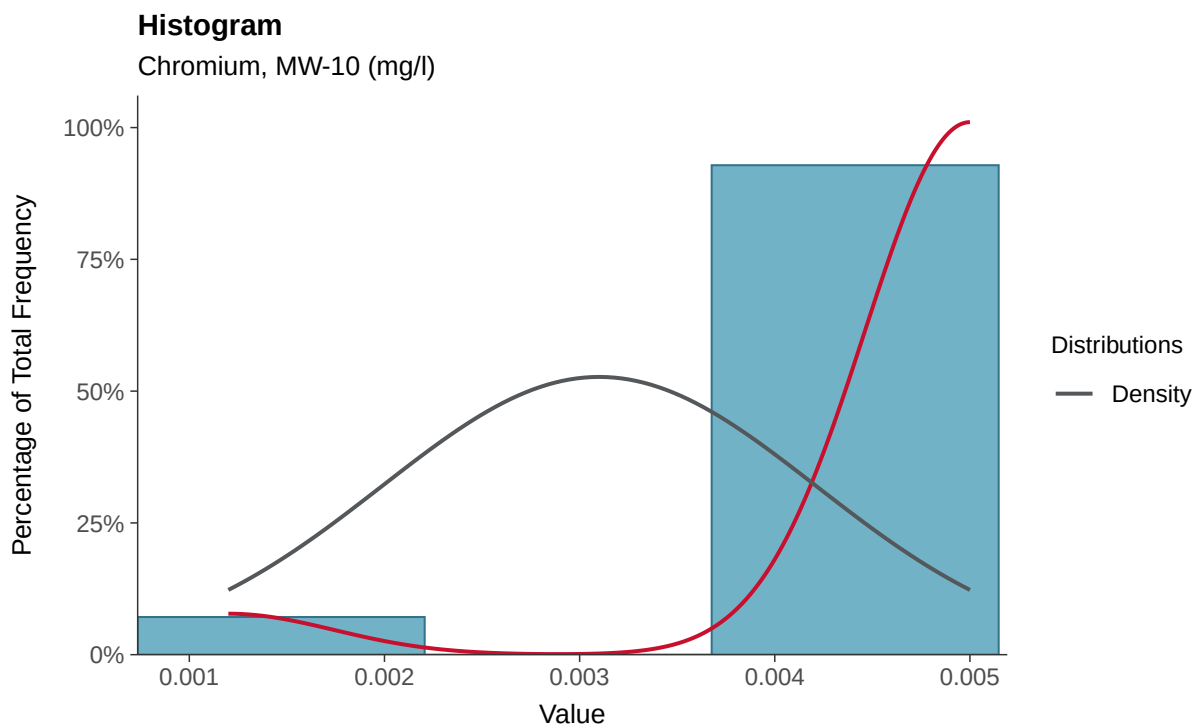
ID: 19_3_104

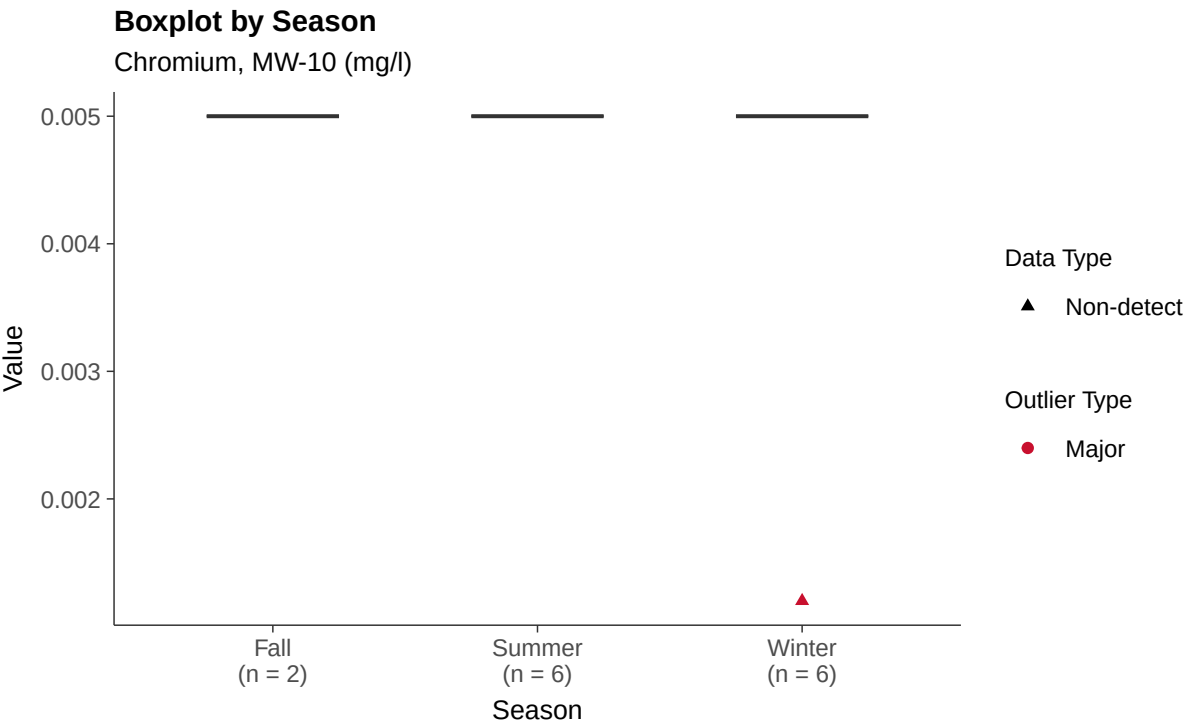
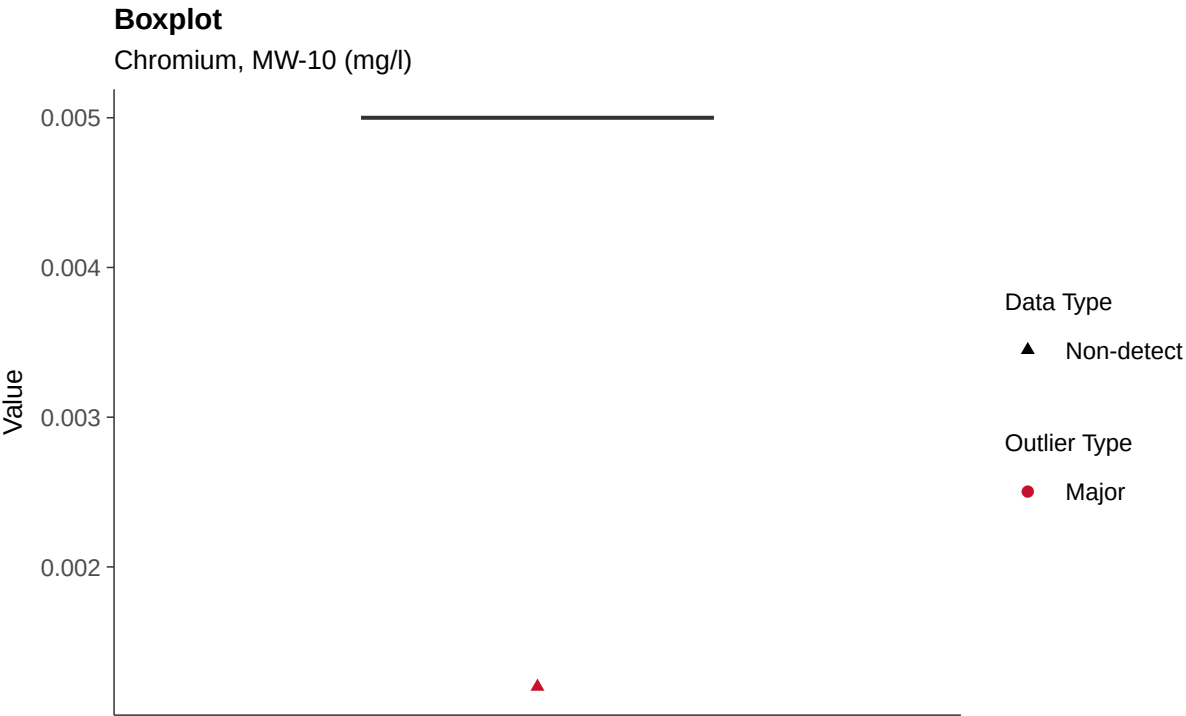








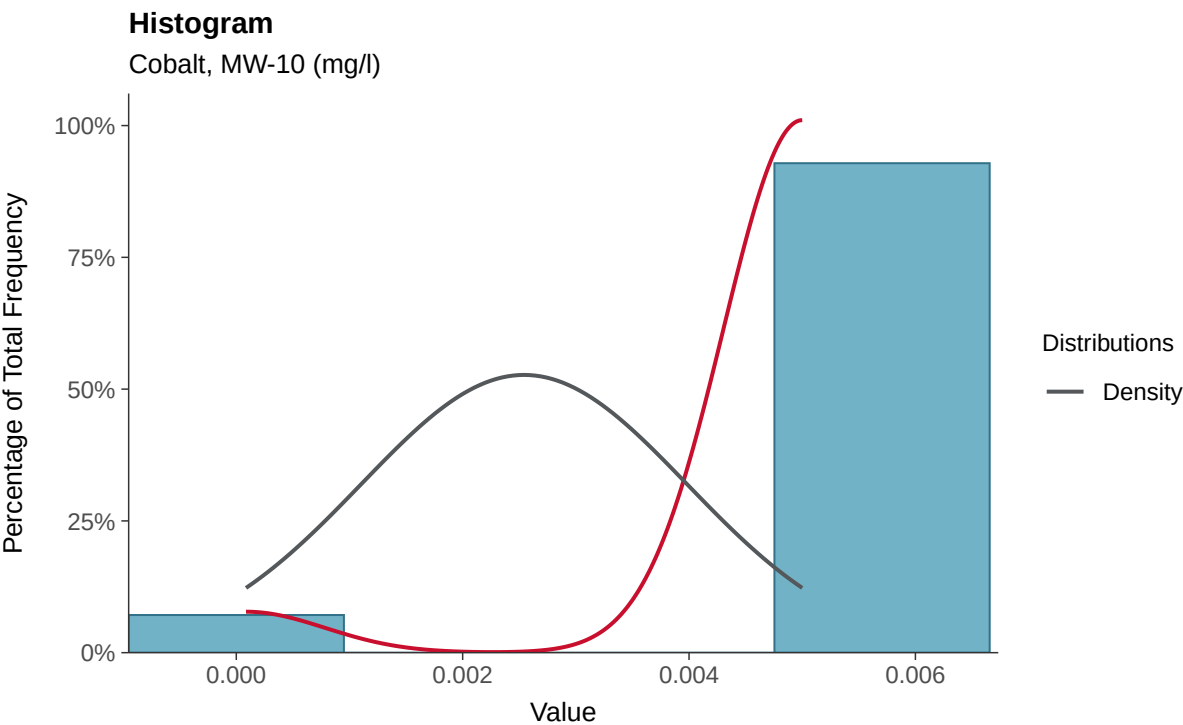
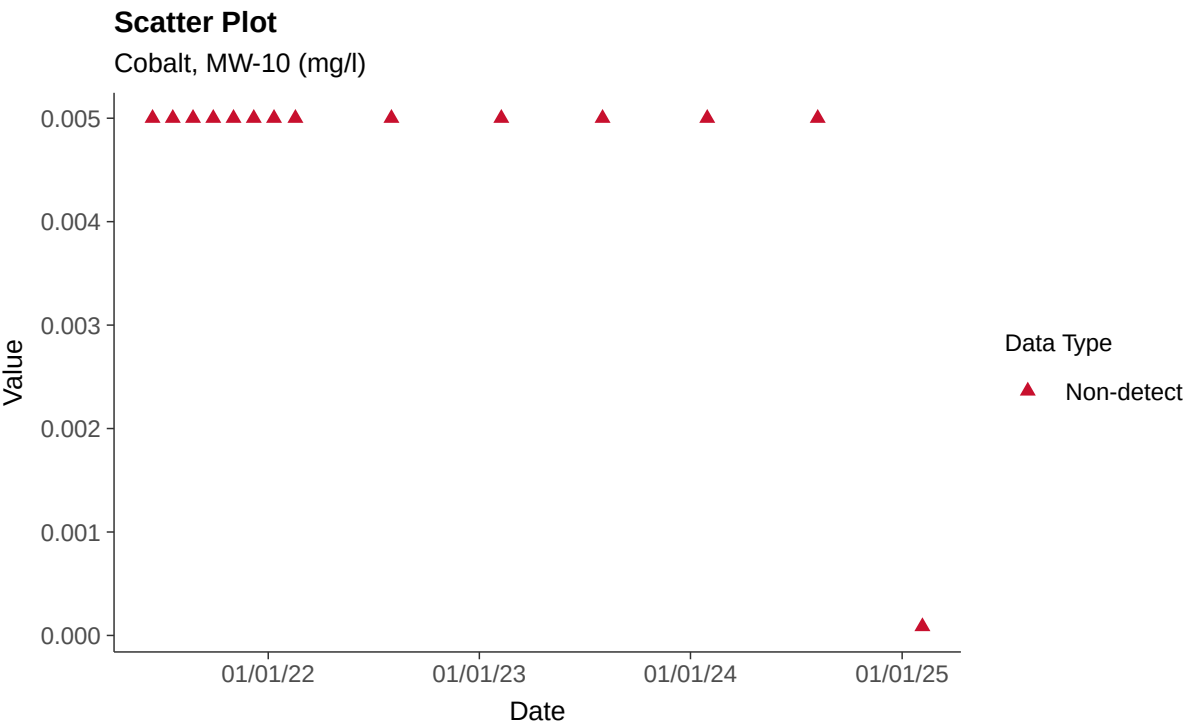


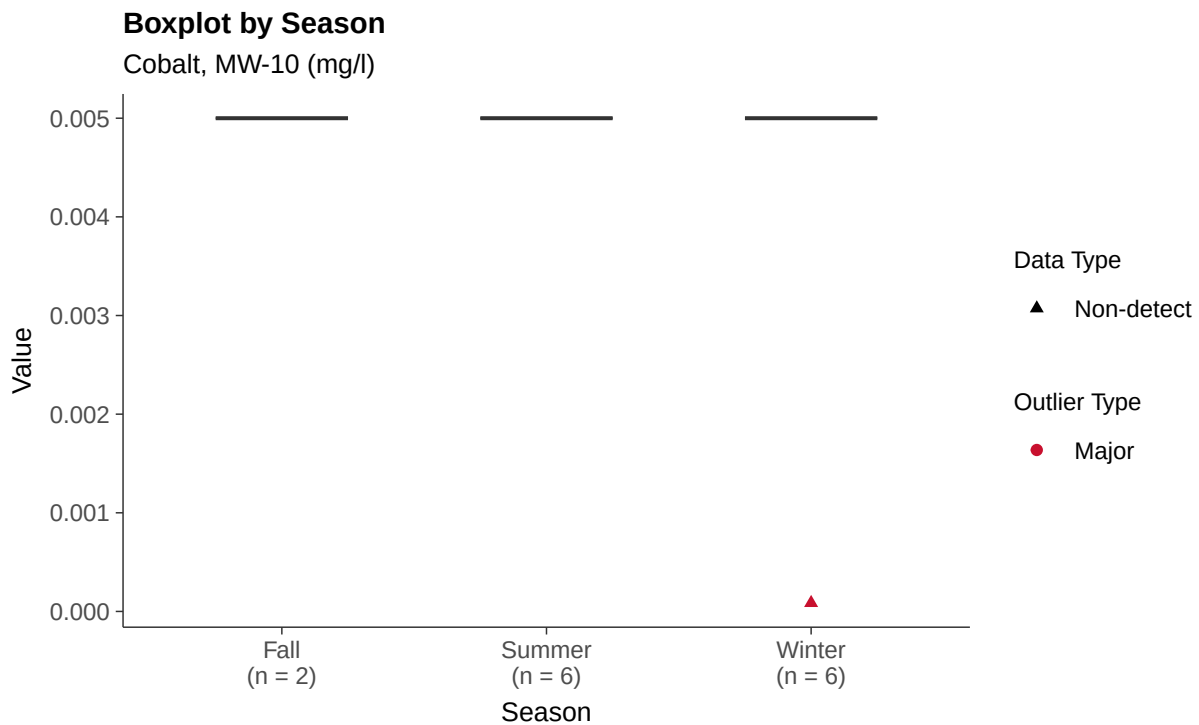


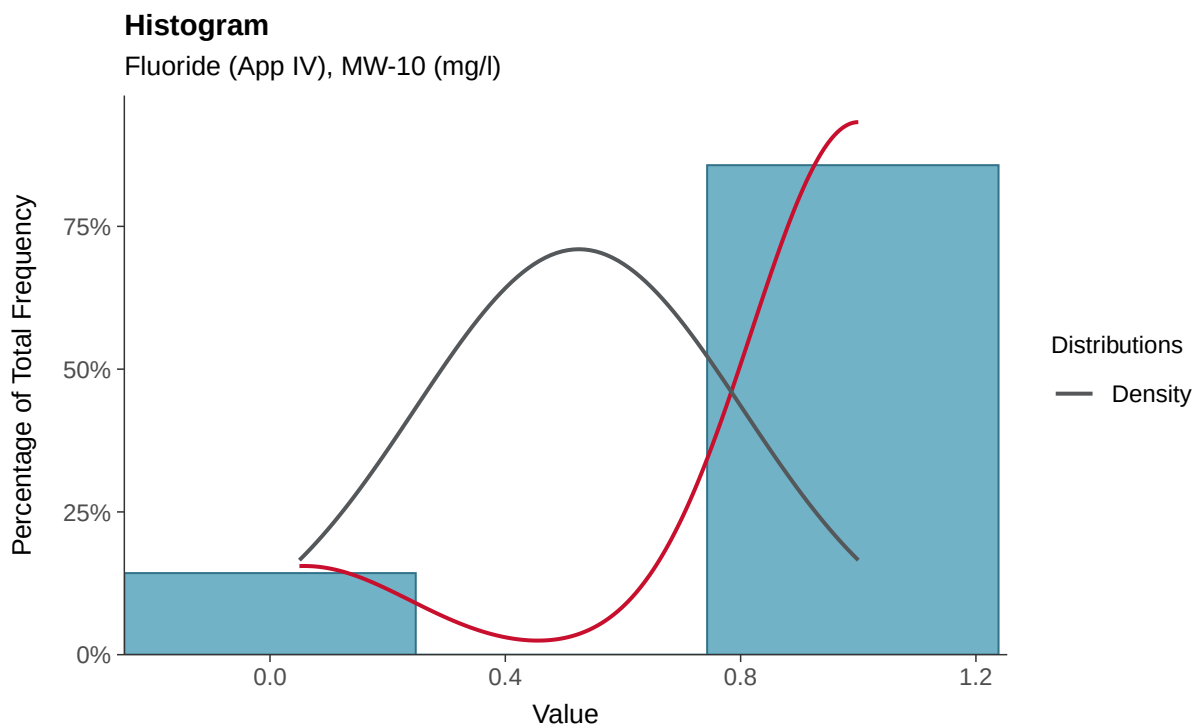


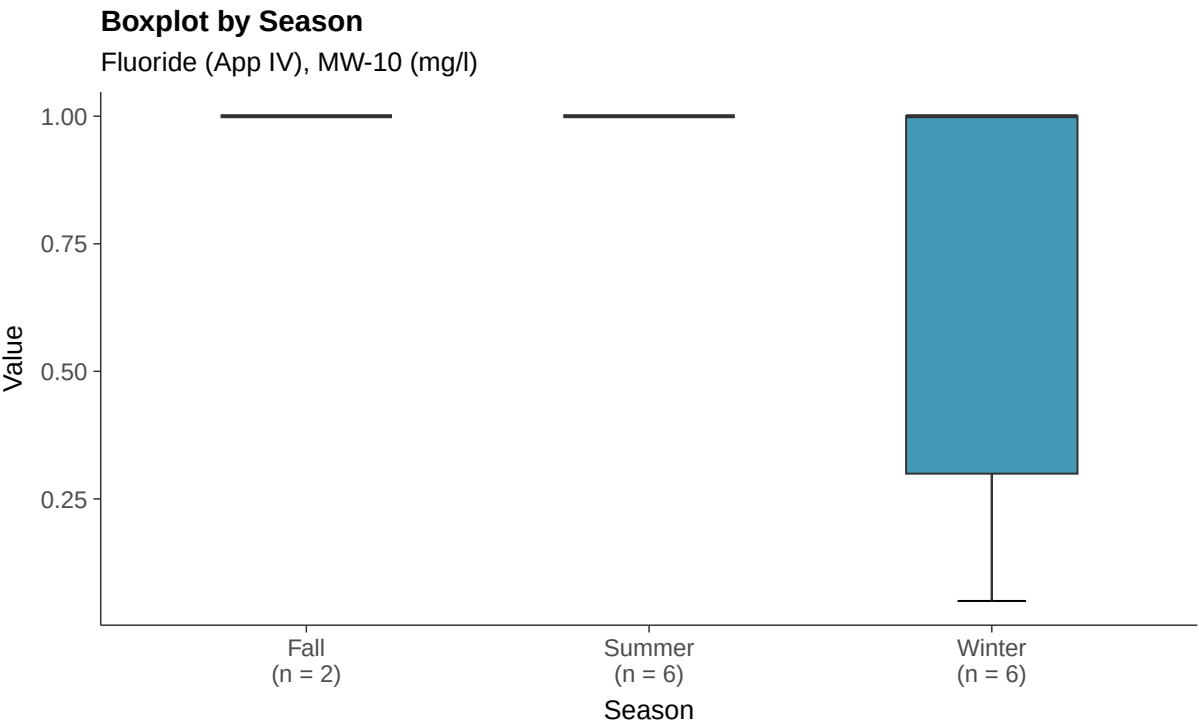
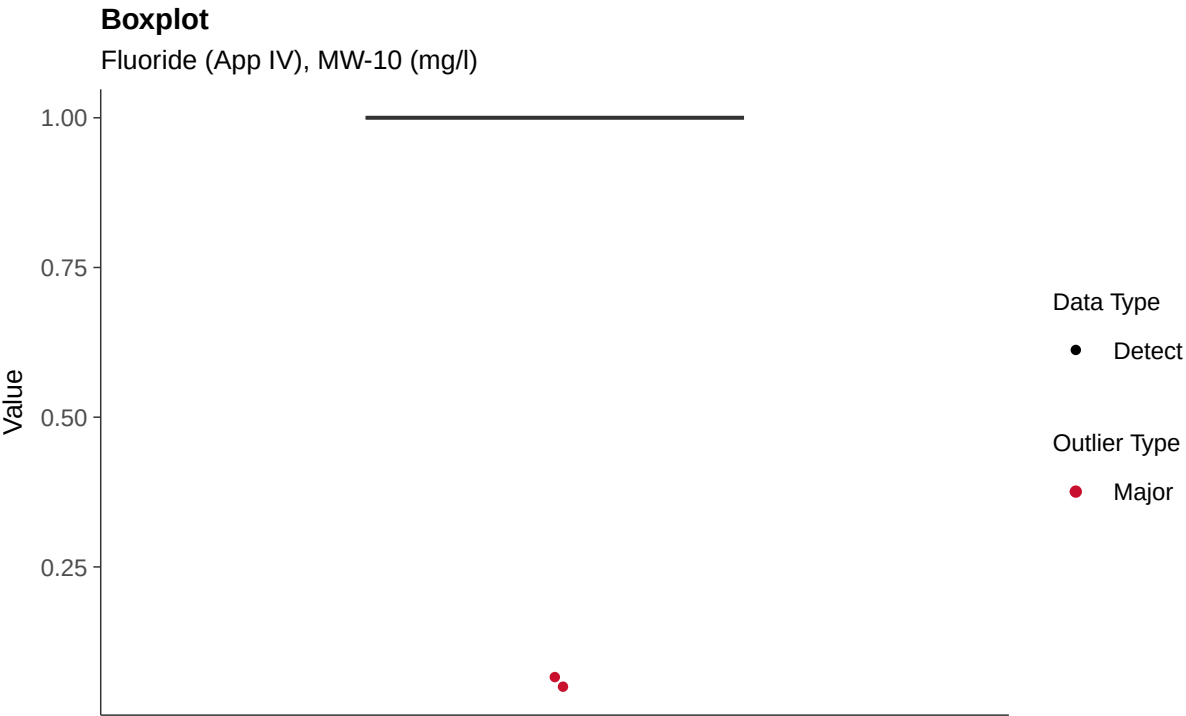
Appendix IV: Cobalt, MW-10

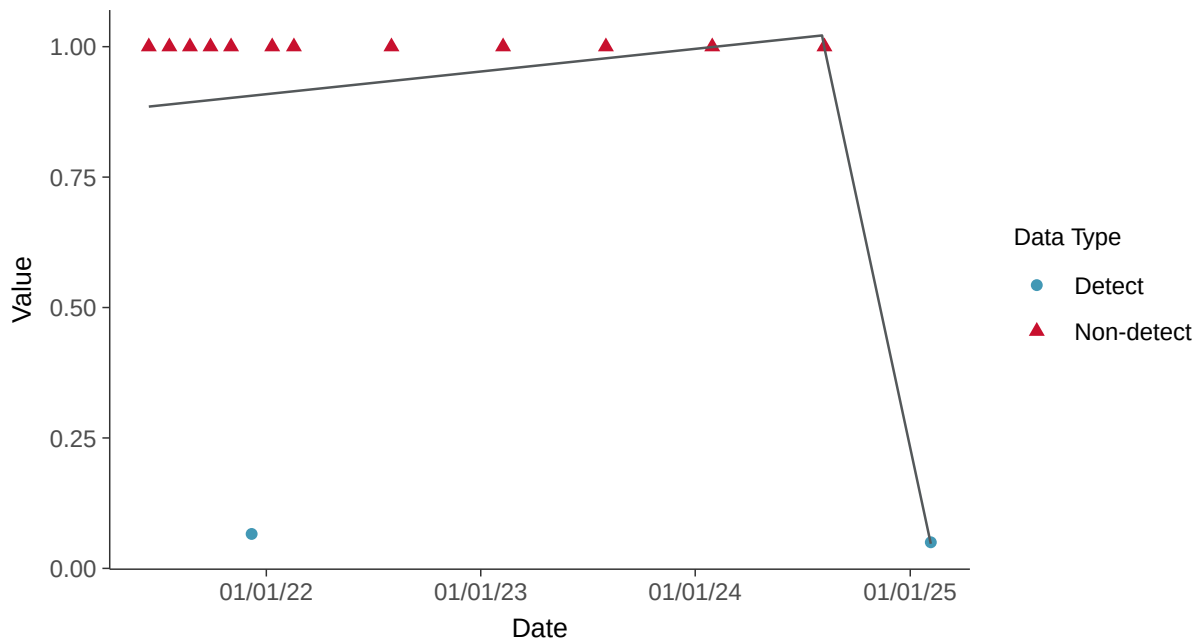
ID: 19_3_110

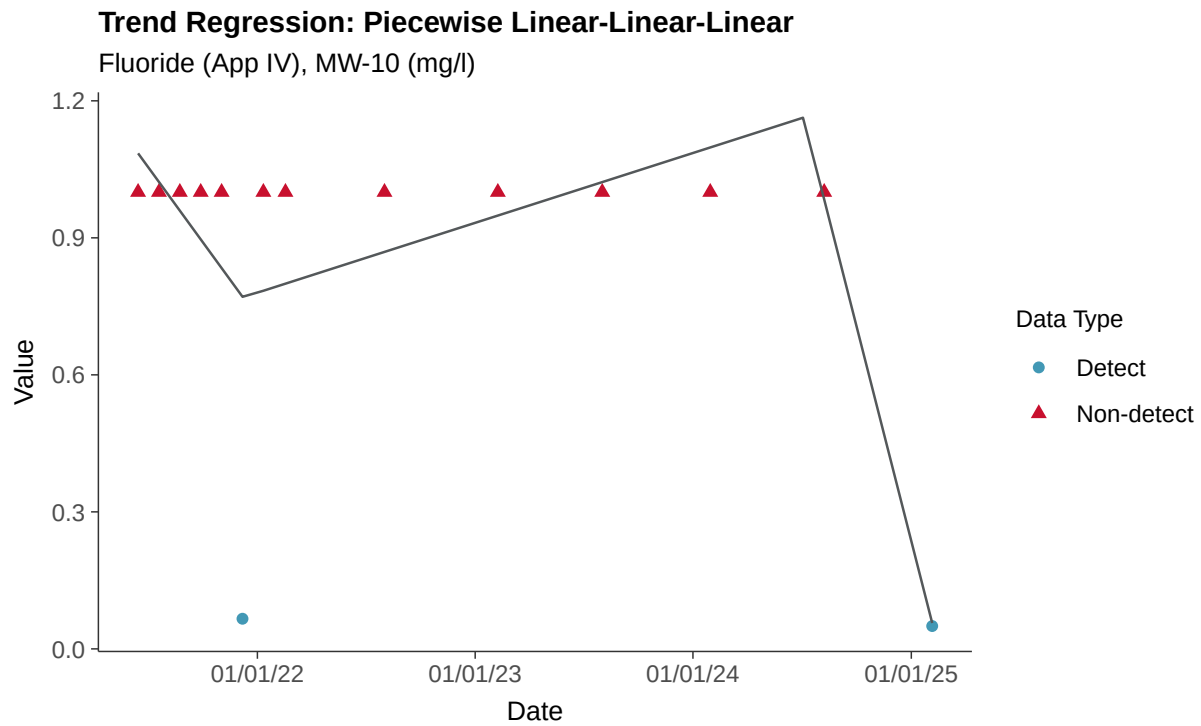








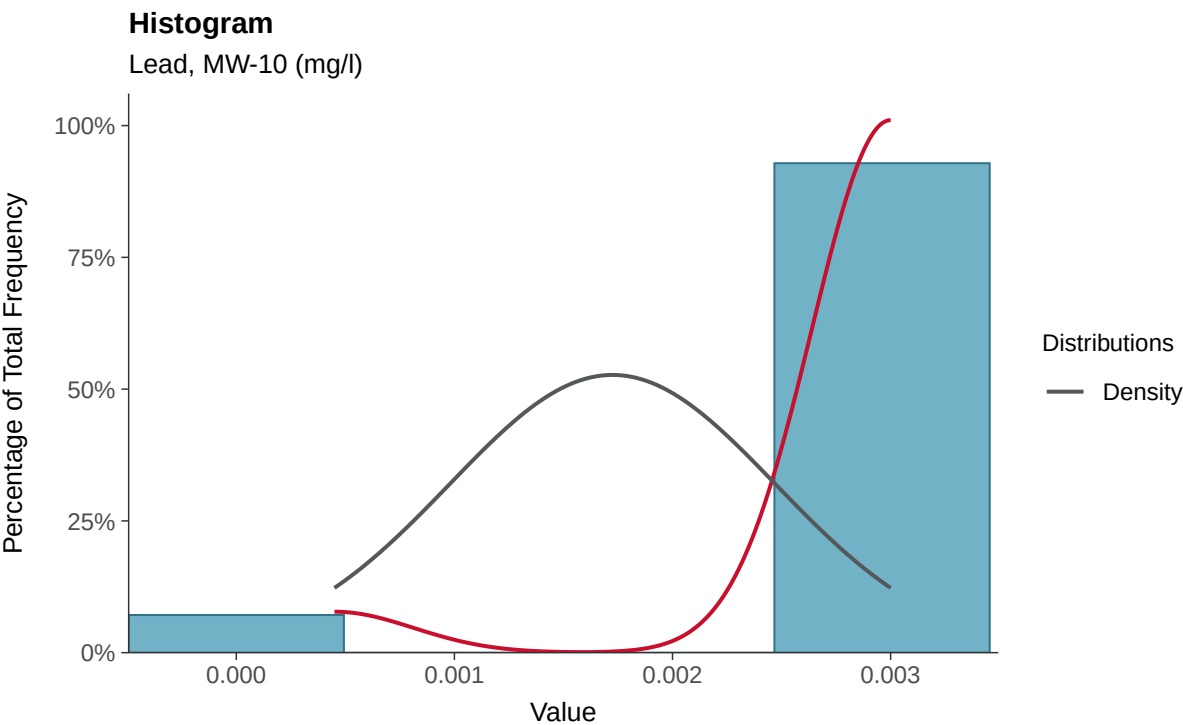
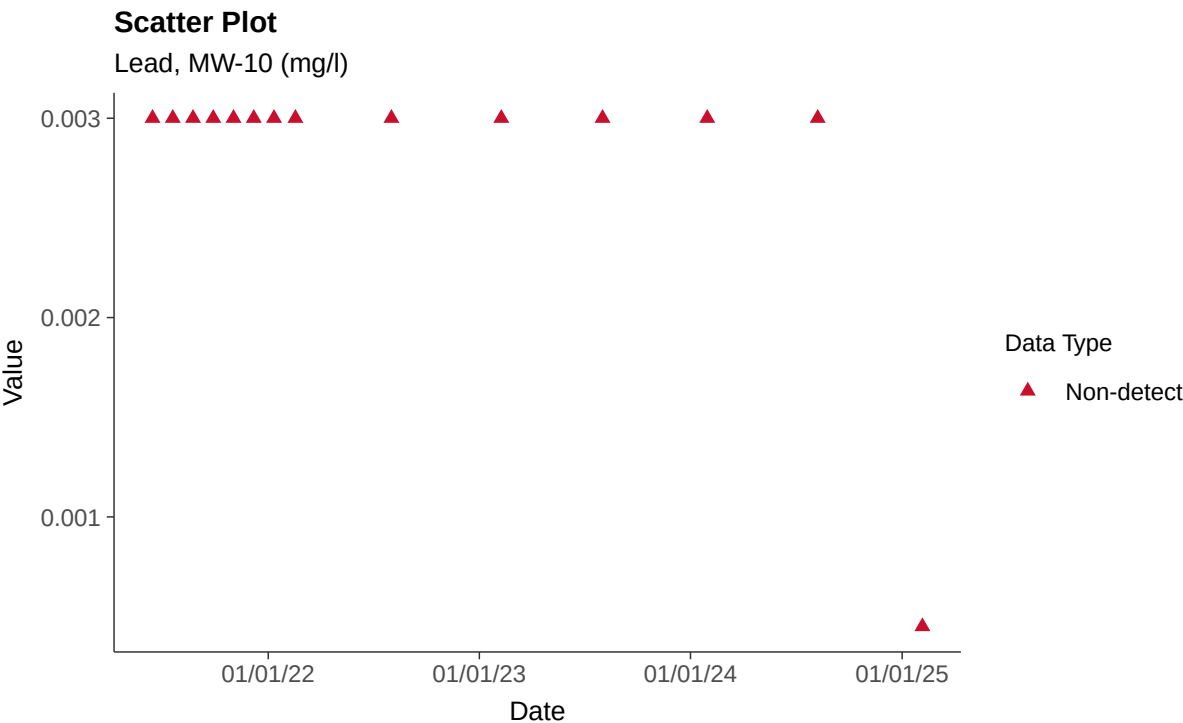


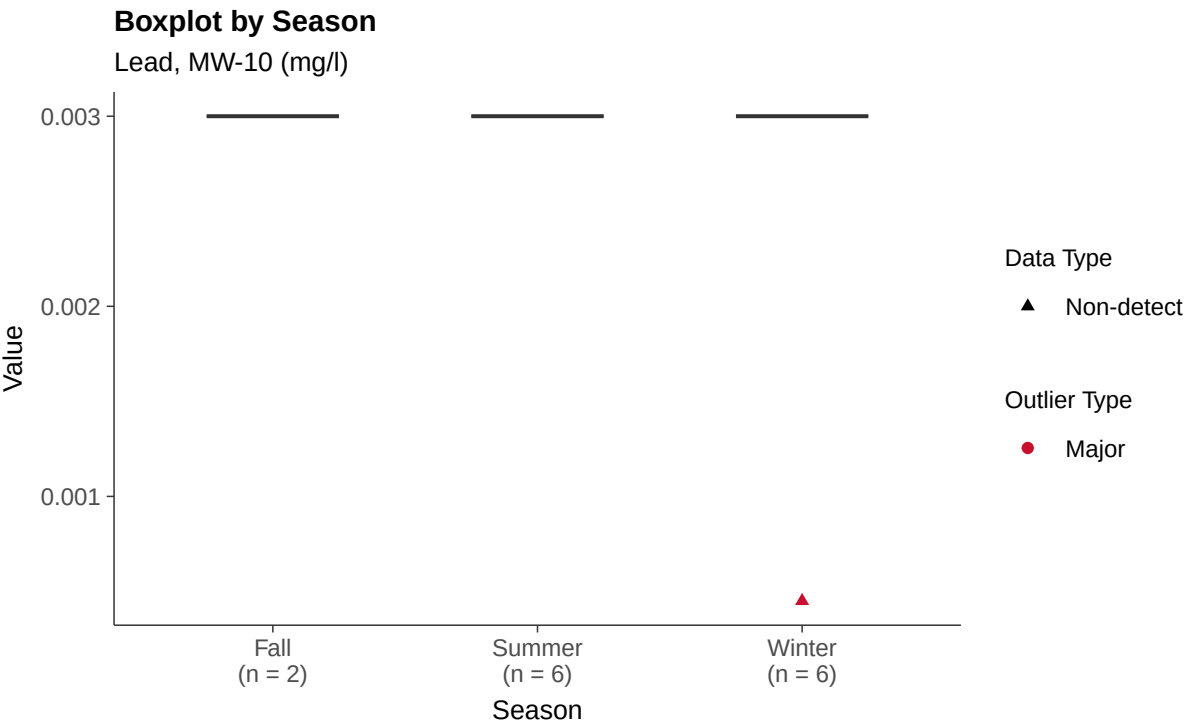
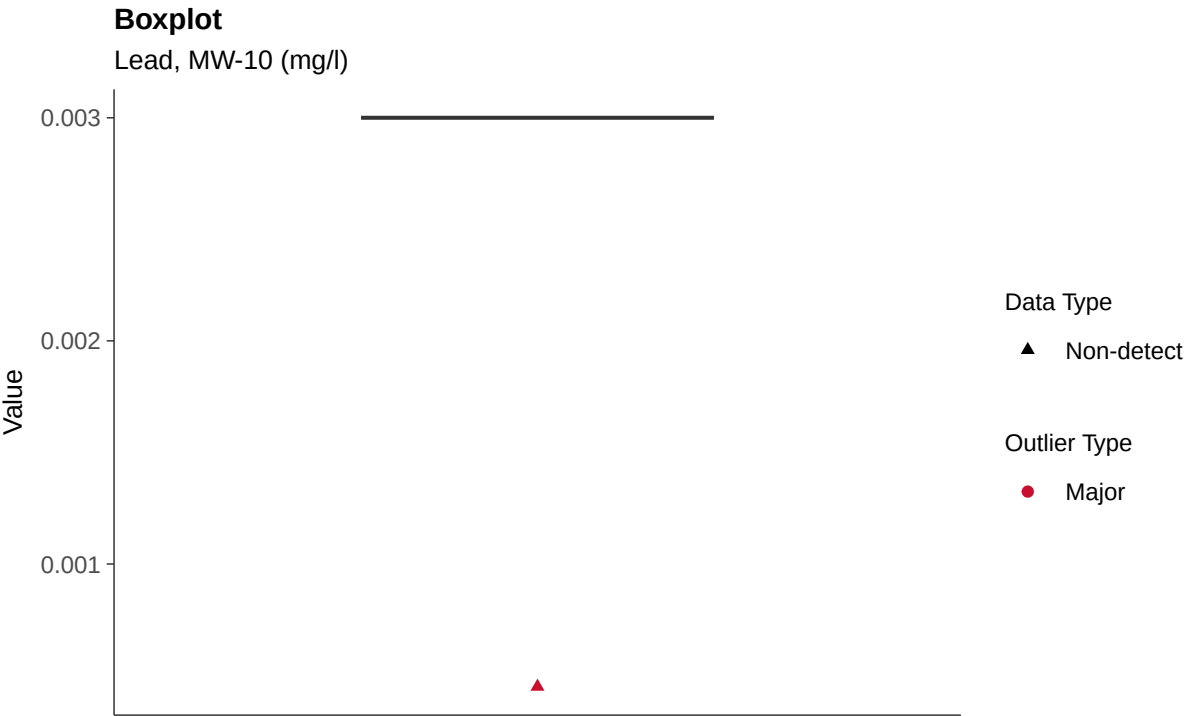




Appendix IV: Lead, MW-10

ID: 19_3_115

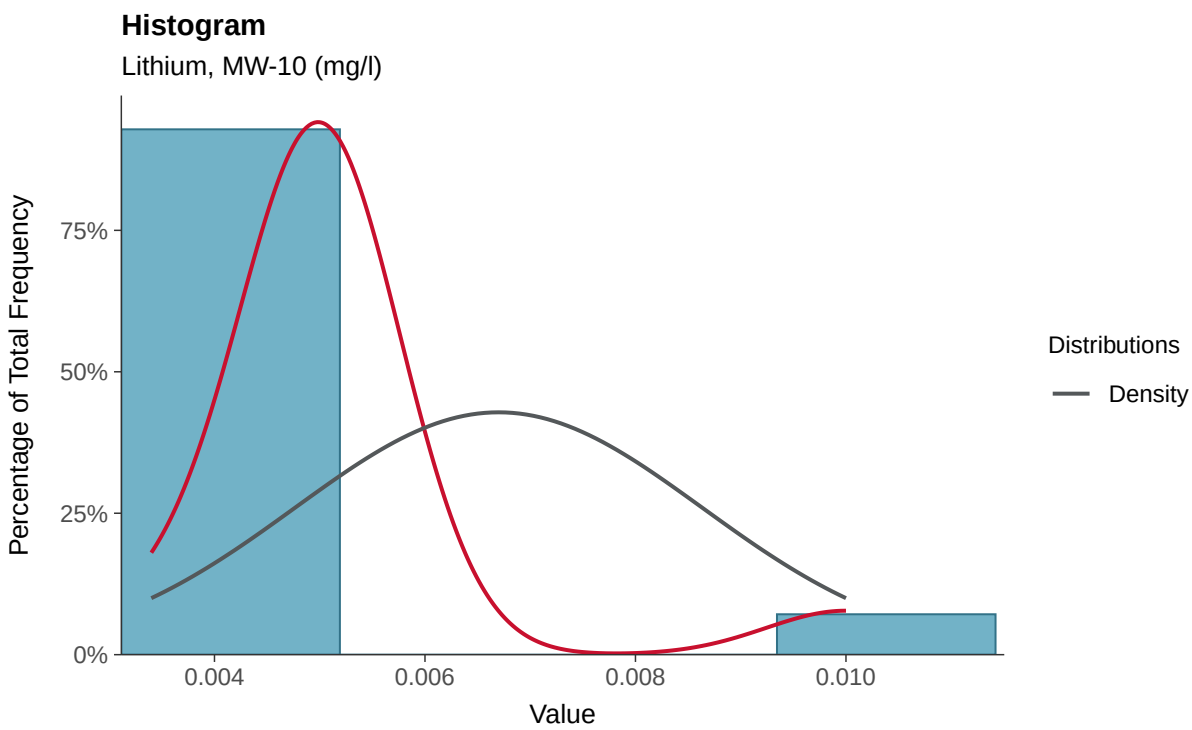
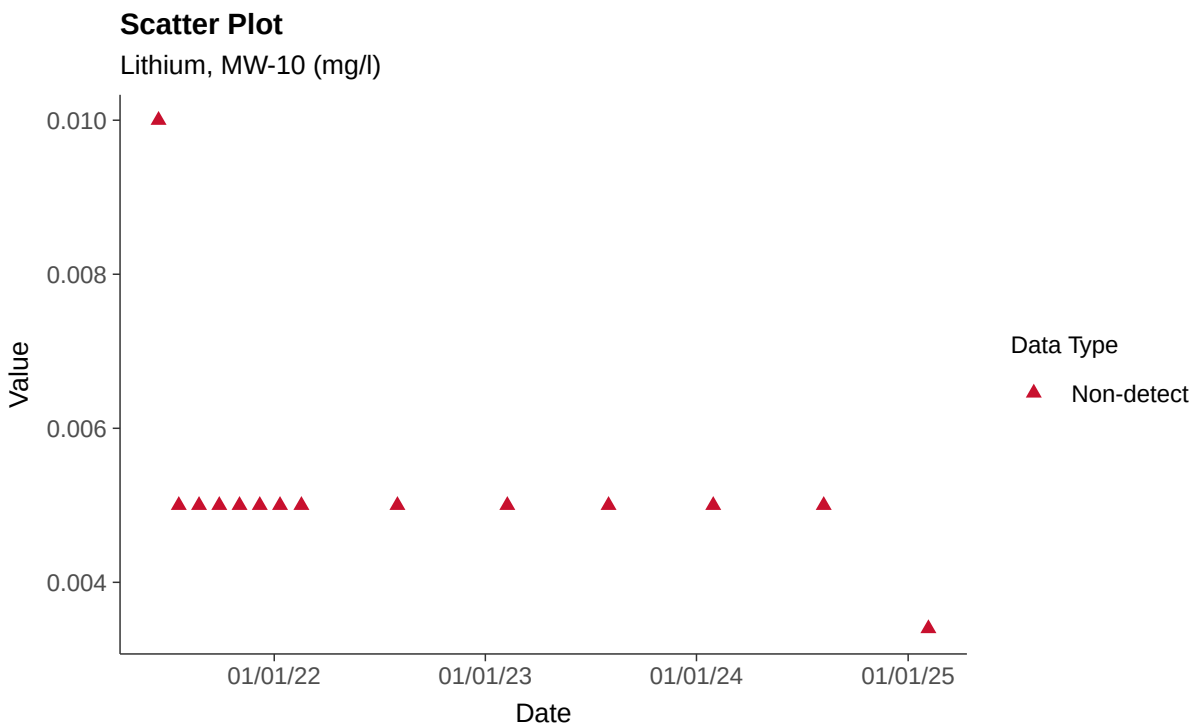


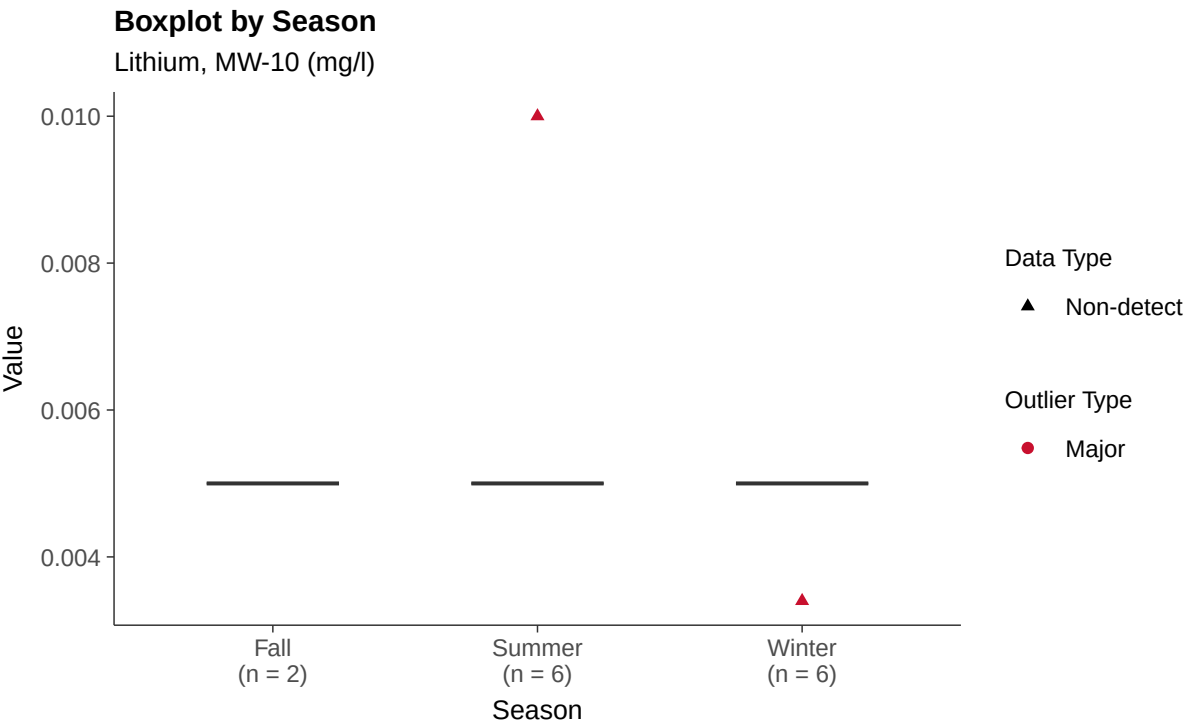
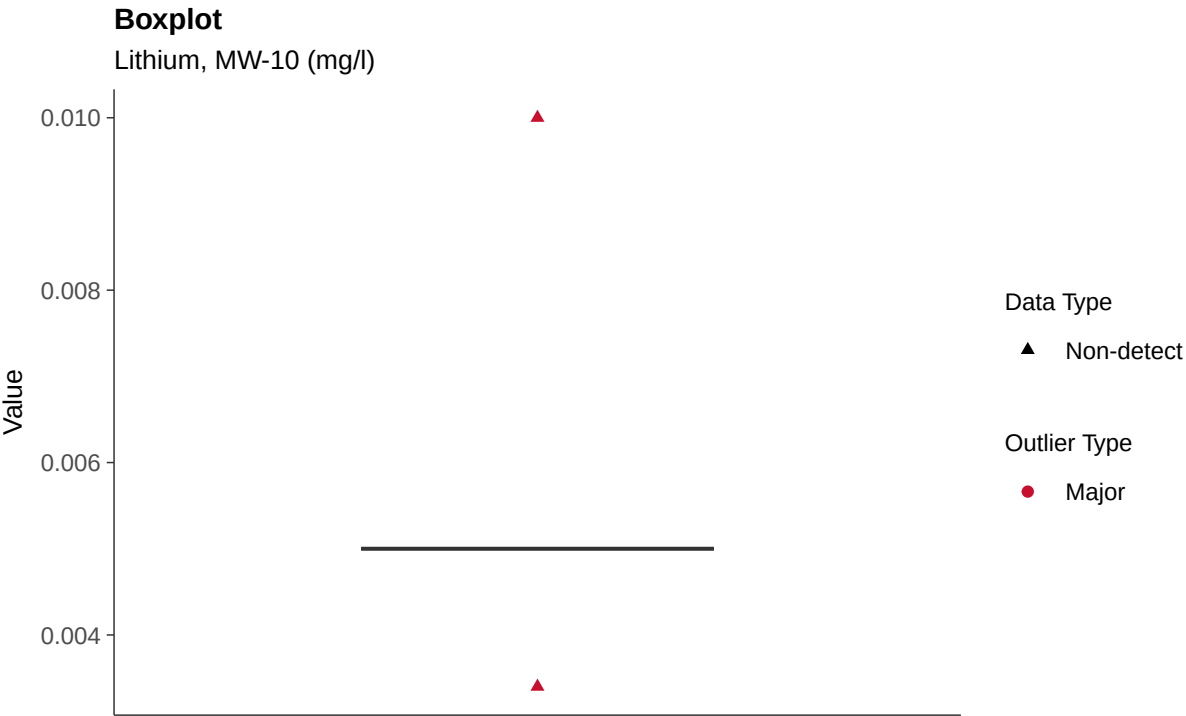




Appendix IV: Lithium, MW-10

ID: 19_3_116

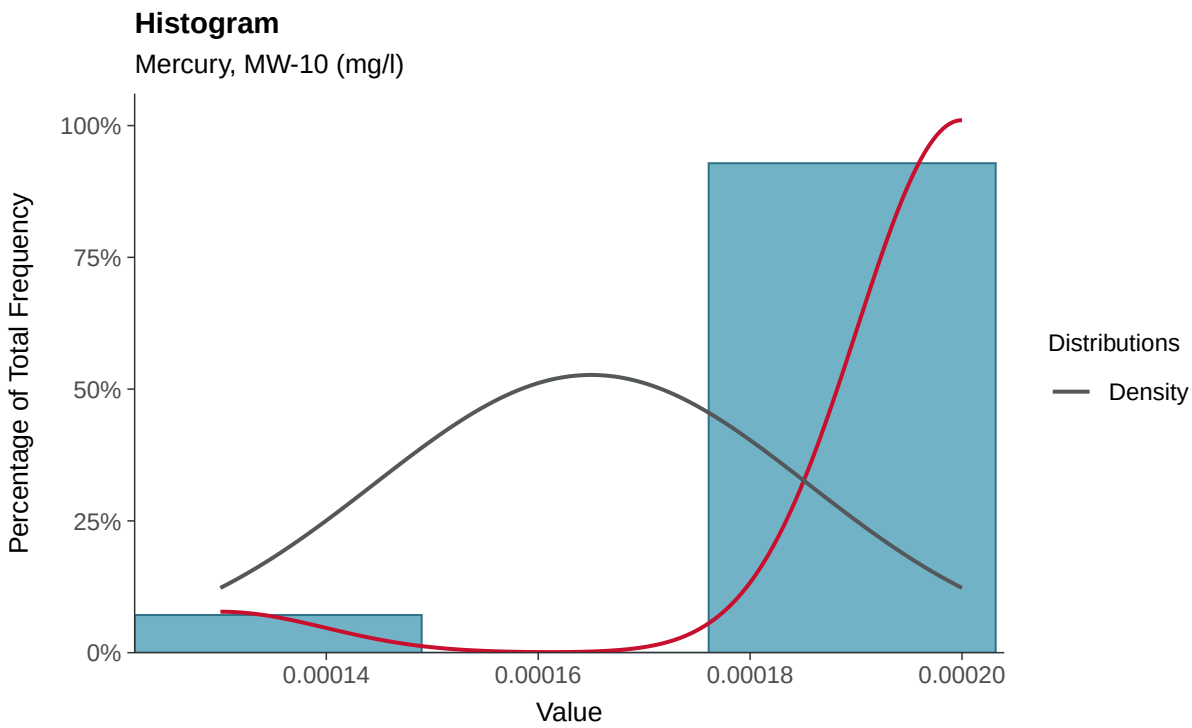
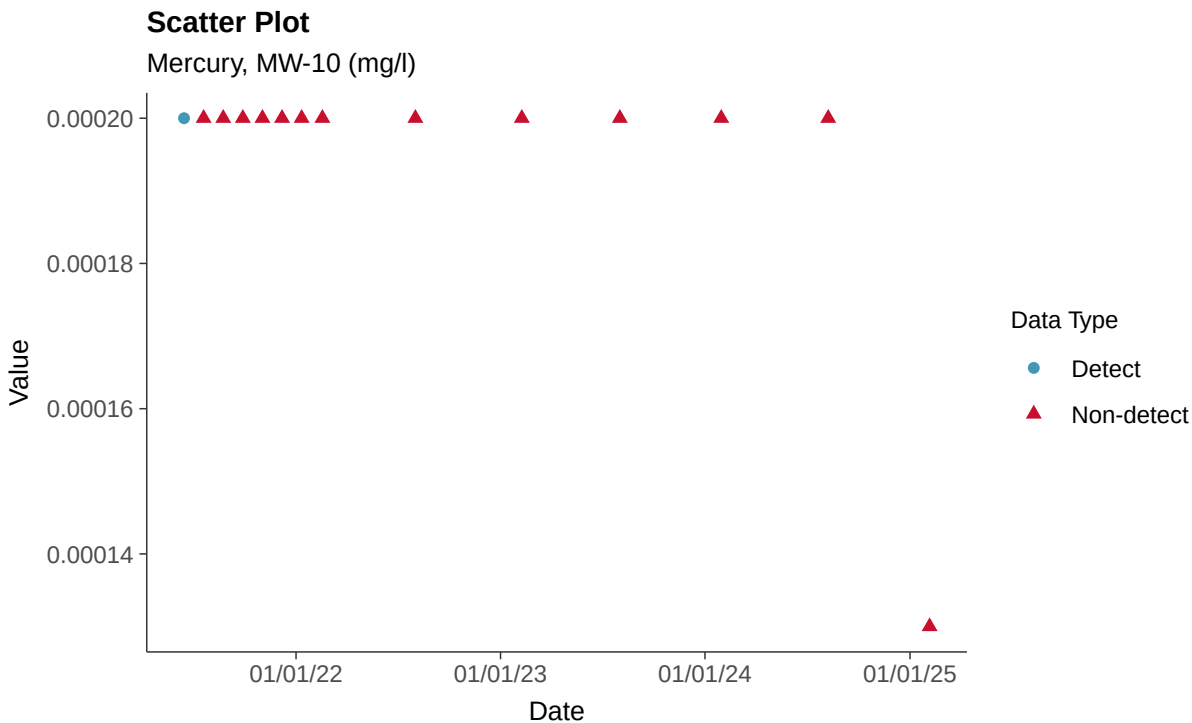


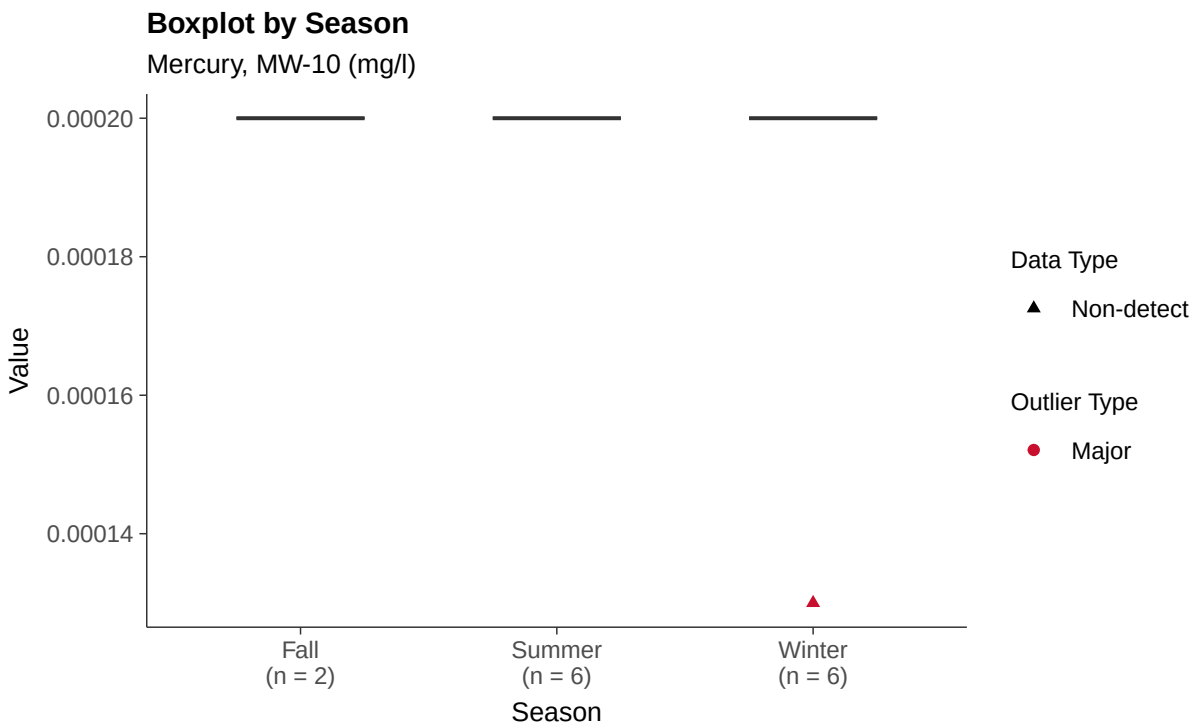
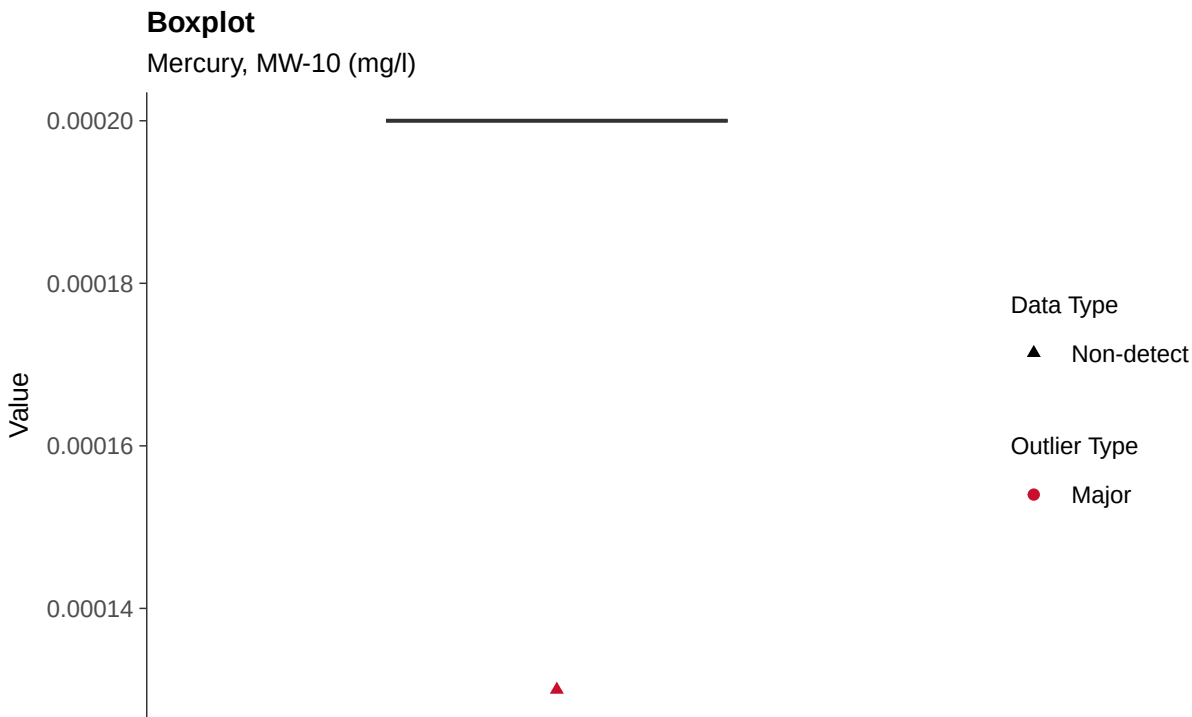




Appendix IV: Mercury, MW-10

ID: 19_3_117

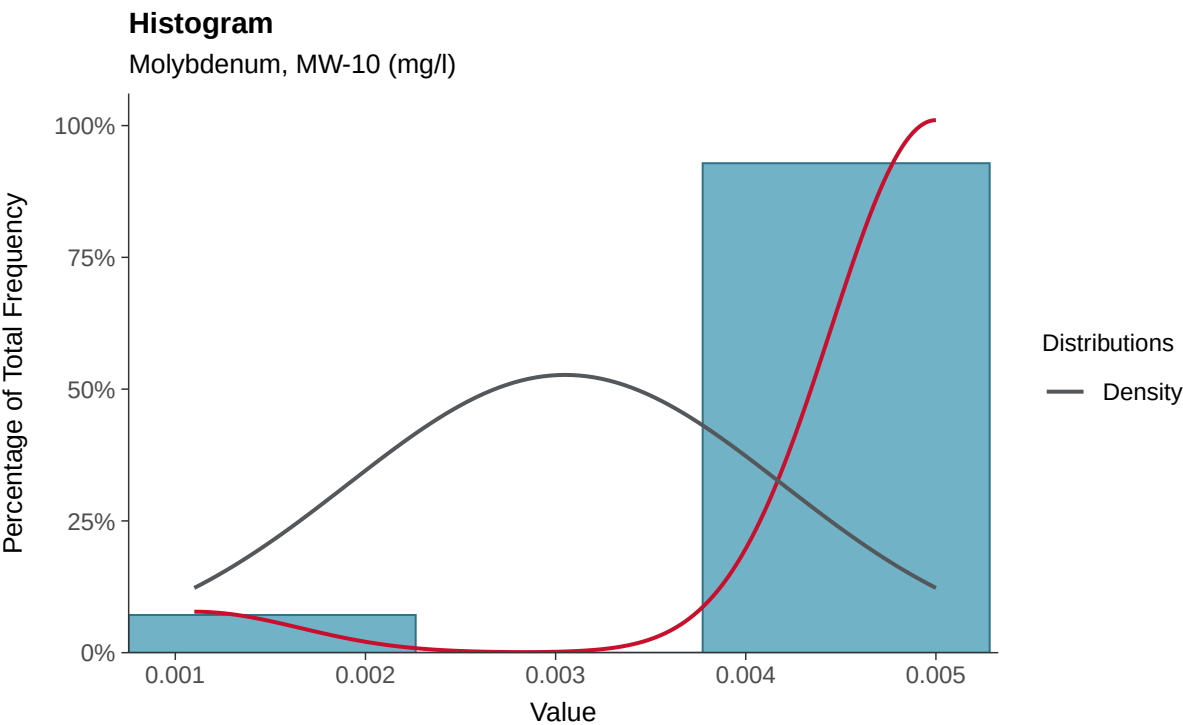
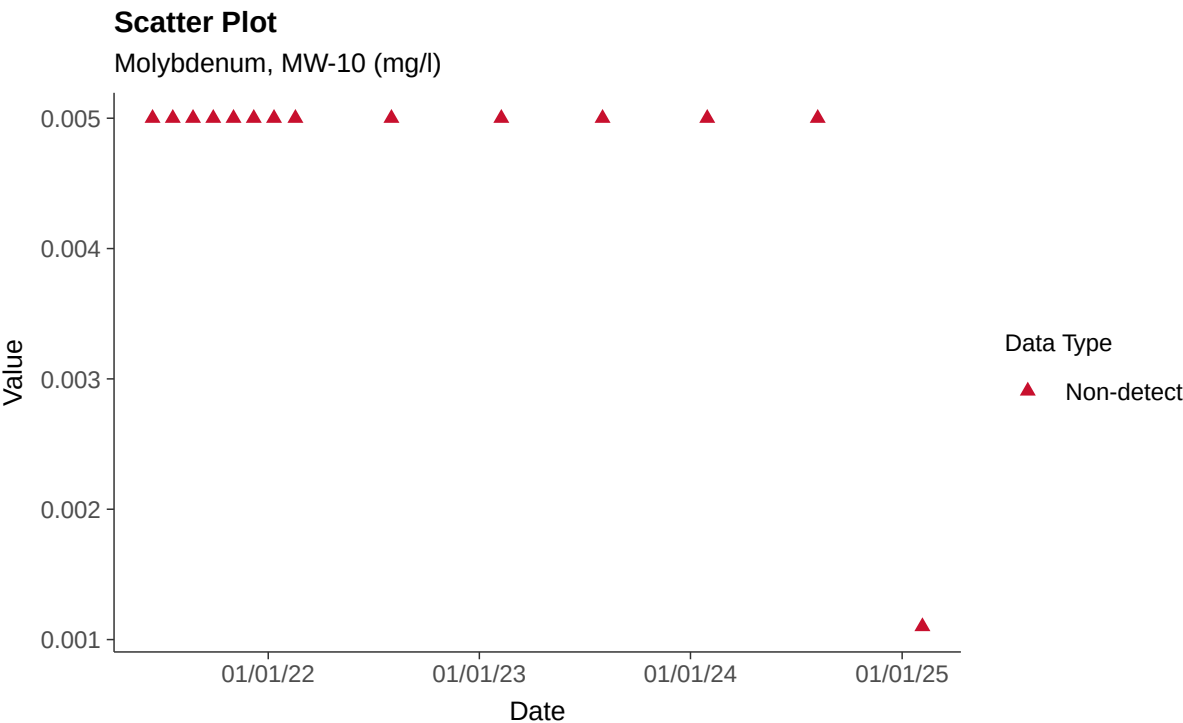


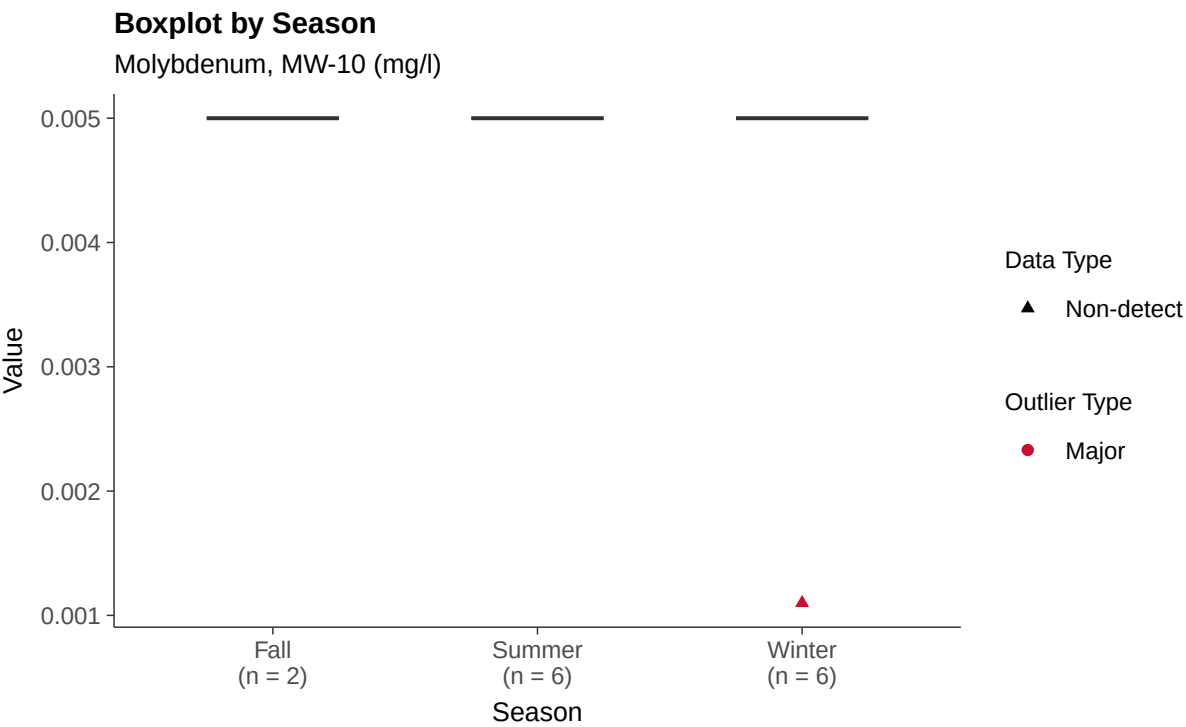
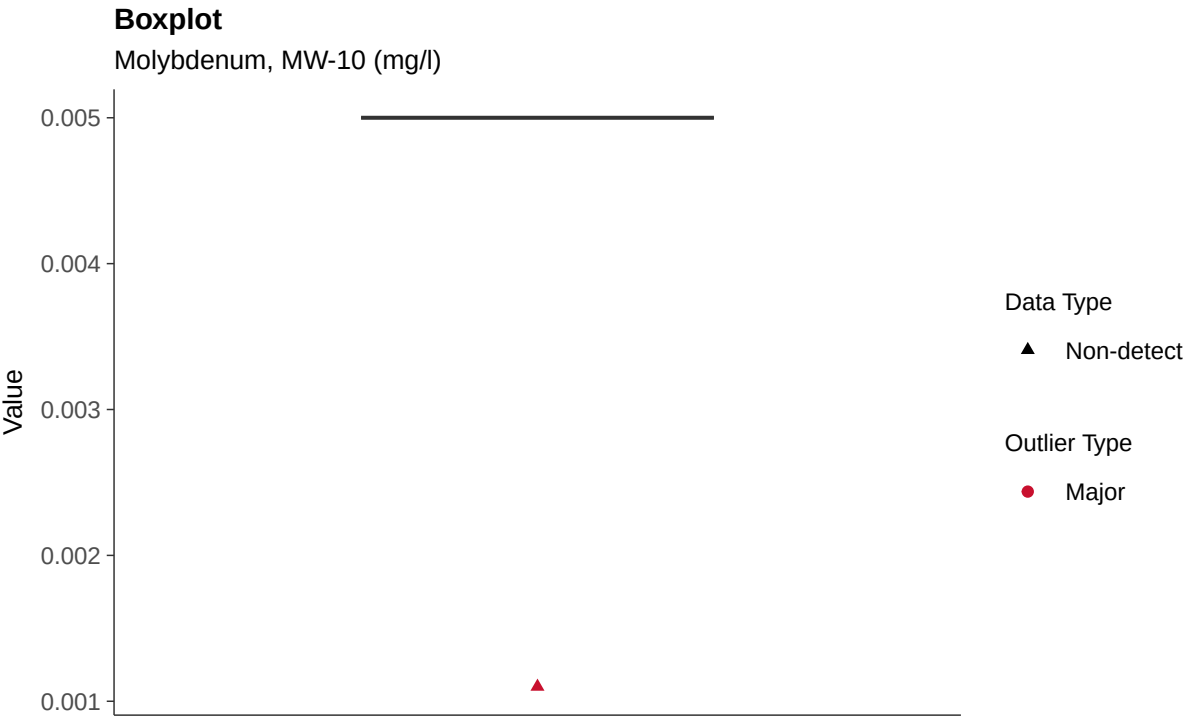




Appendix IV: Molybdenum, MW-10

ID: 19_3_118

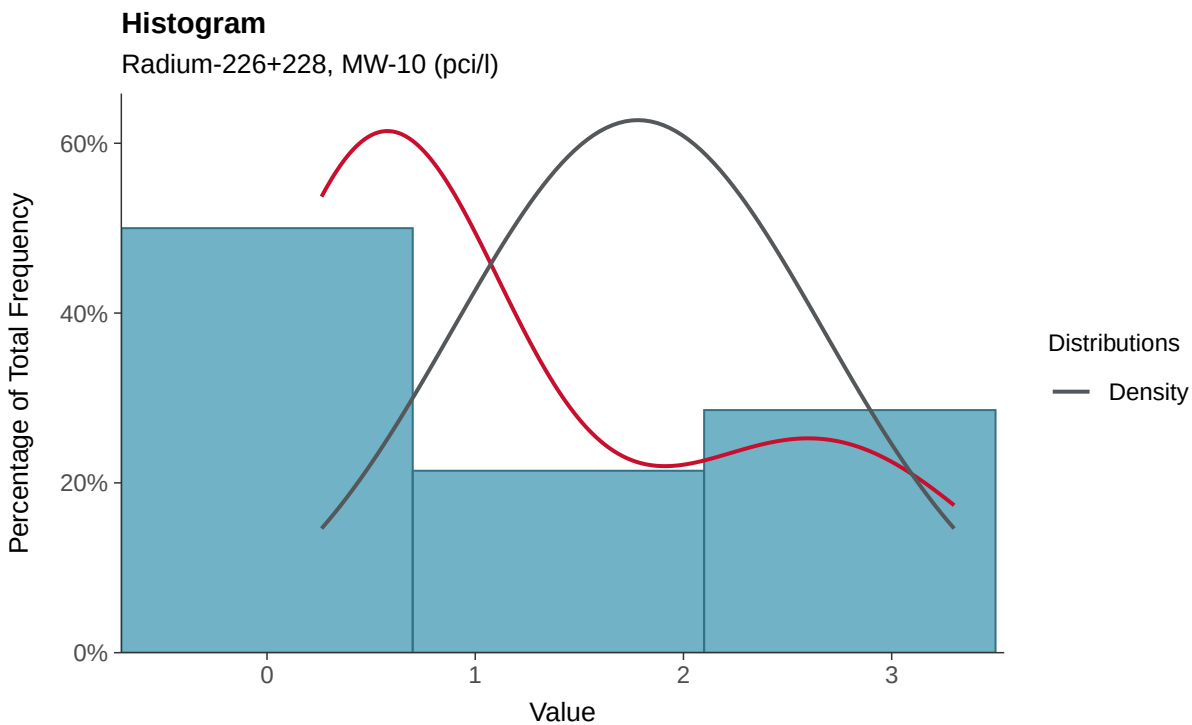
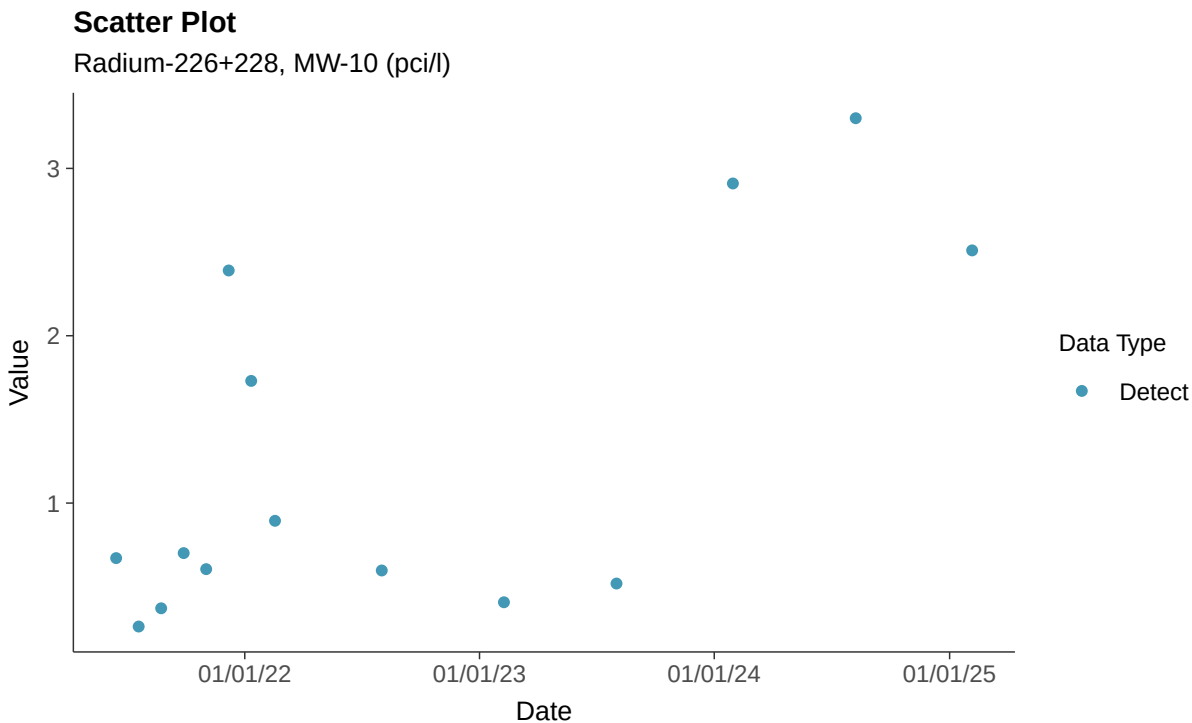






Appendix IV: Radium-226+228, MW-10

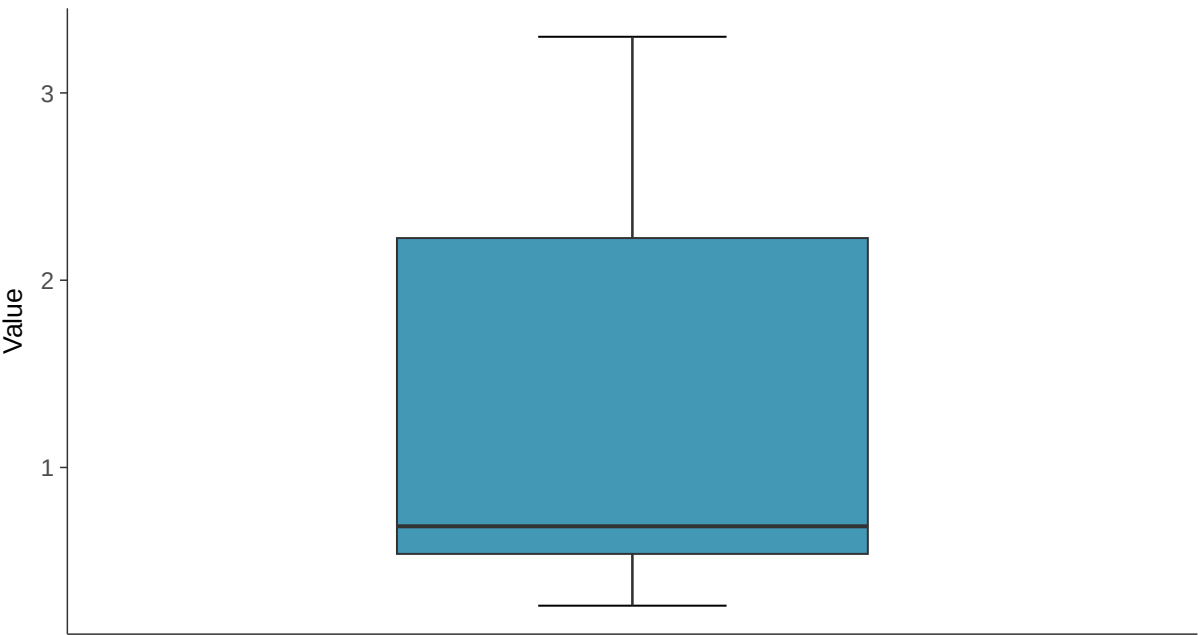
ID: 19_3_121





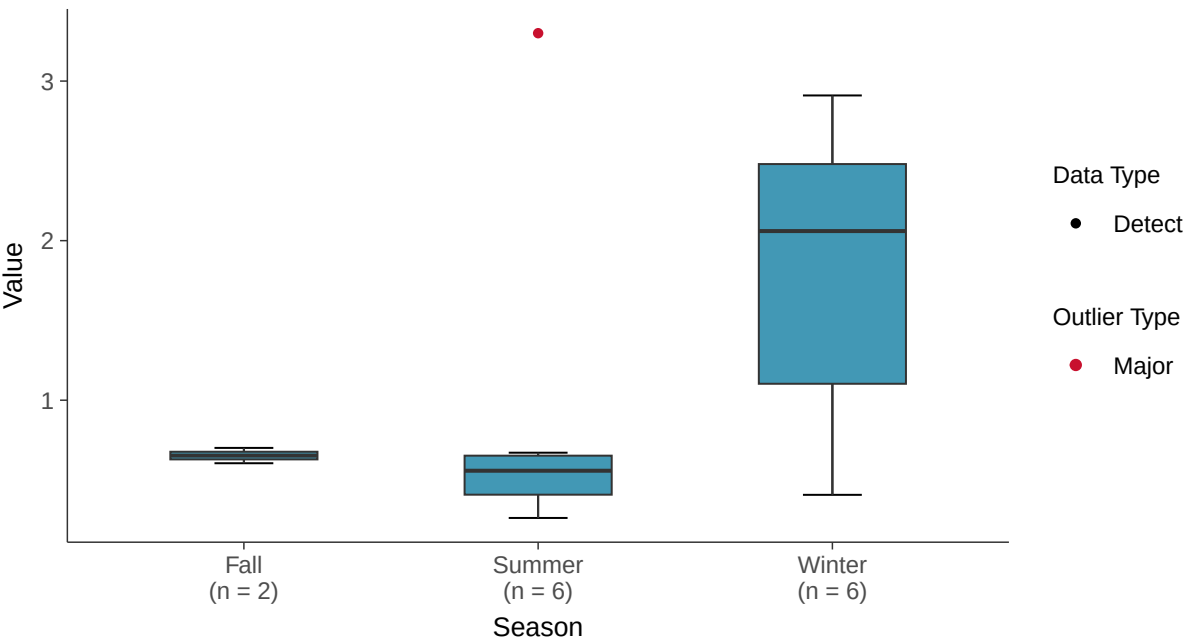
Boxplot

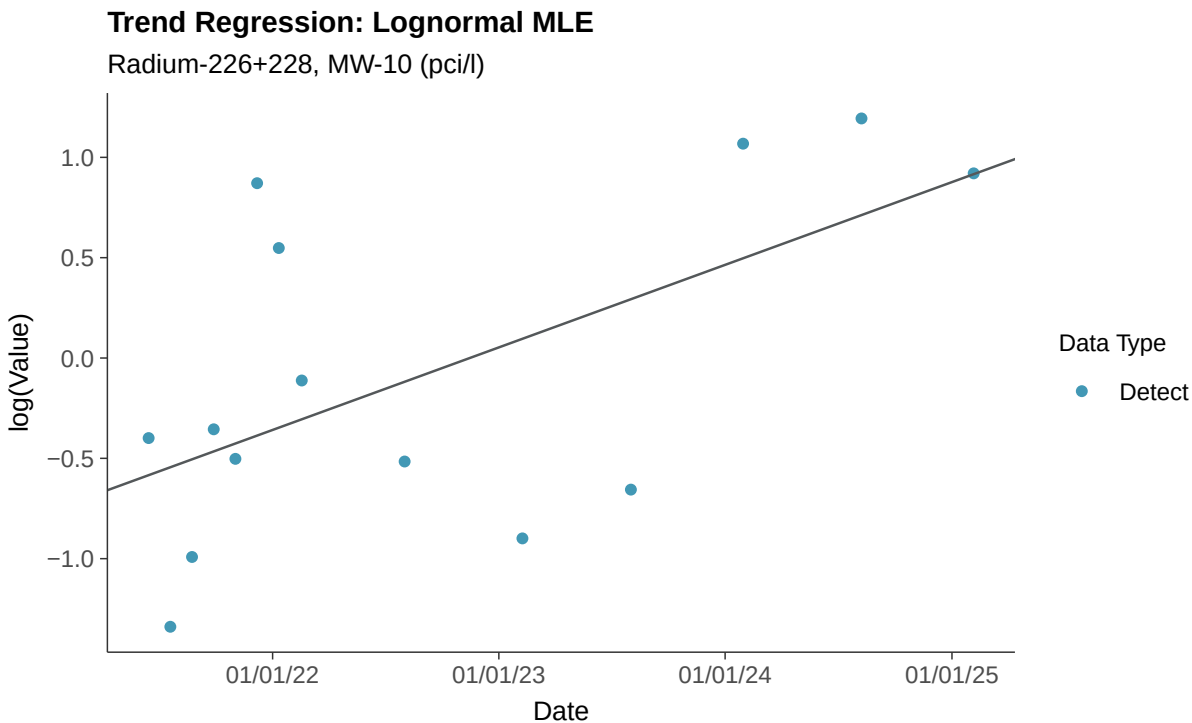
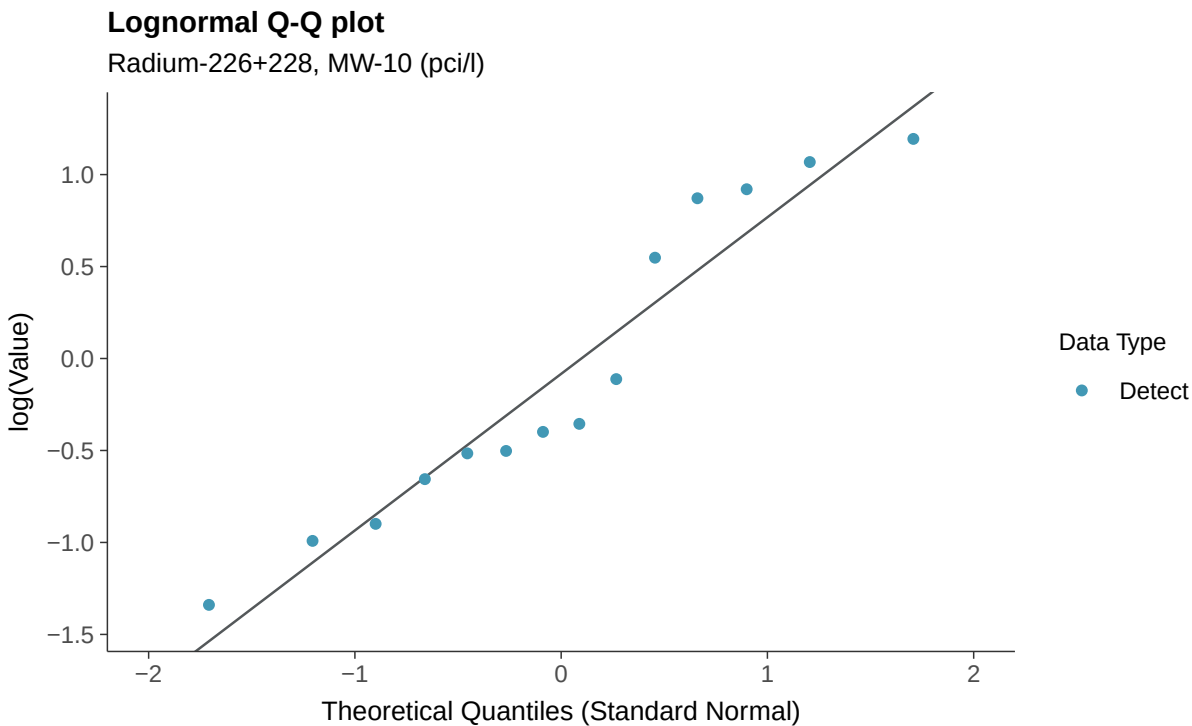
Radium-226+228, MW-10 (pci/l)



Boxplot by Season

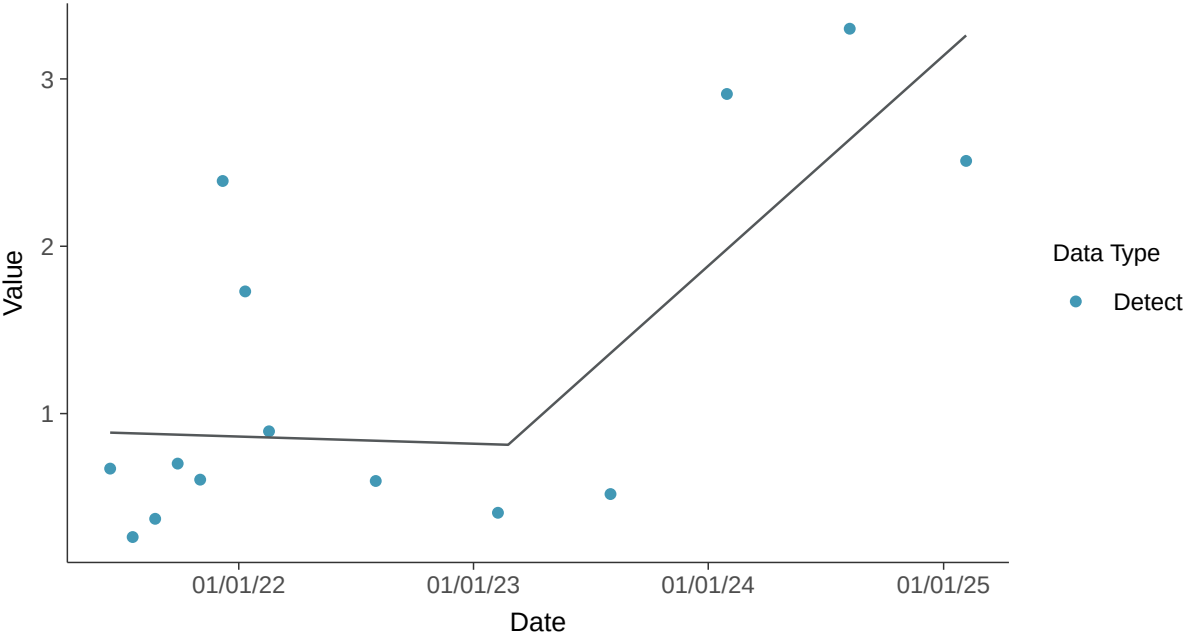
Radium-226+228, MW-10 (pci/l)

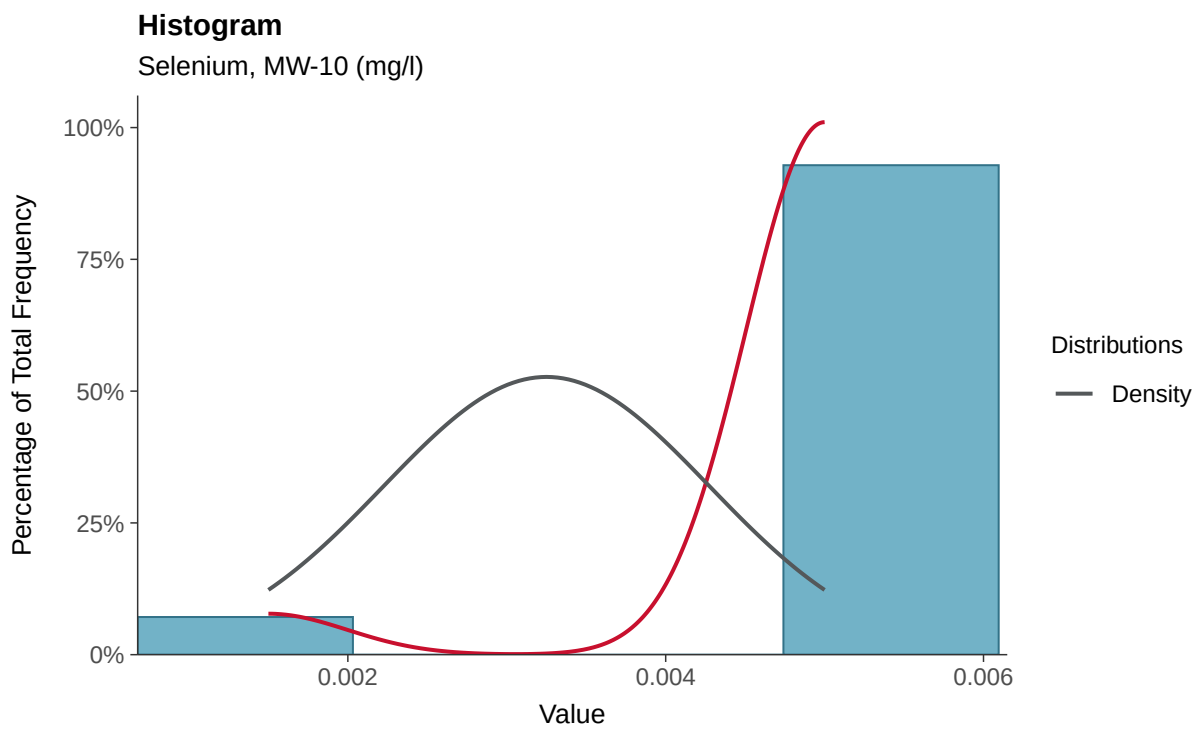


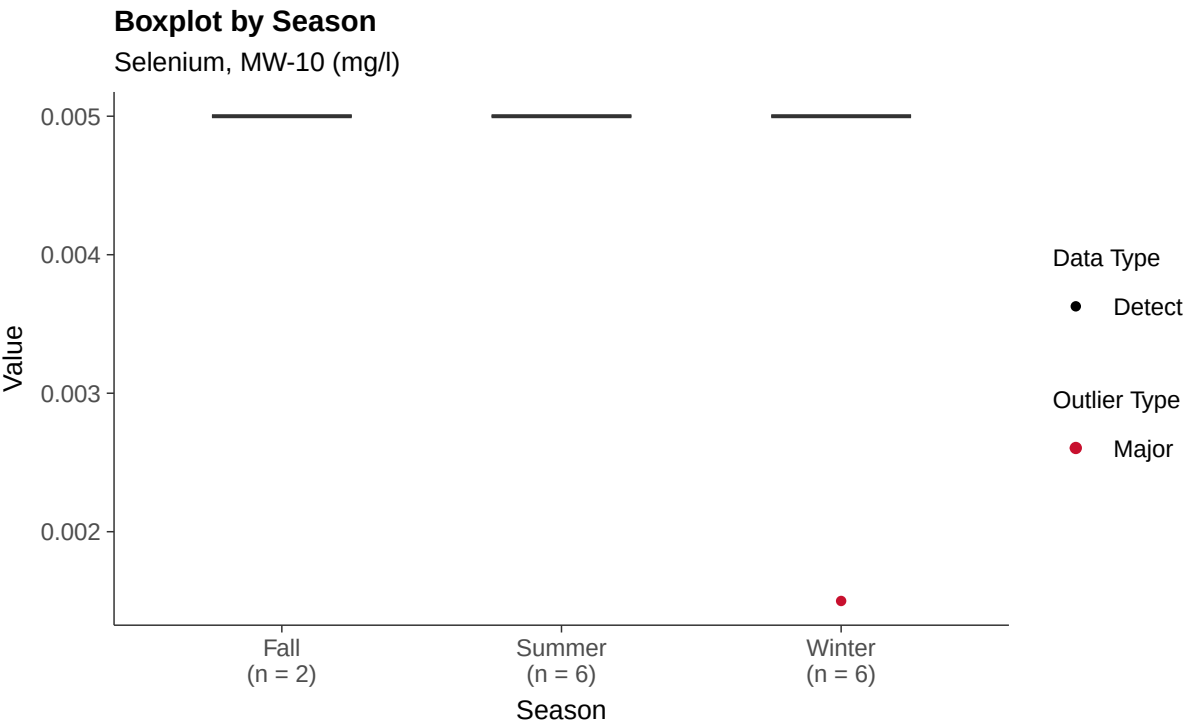
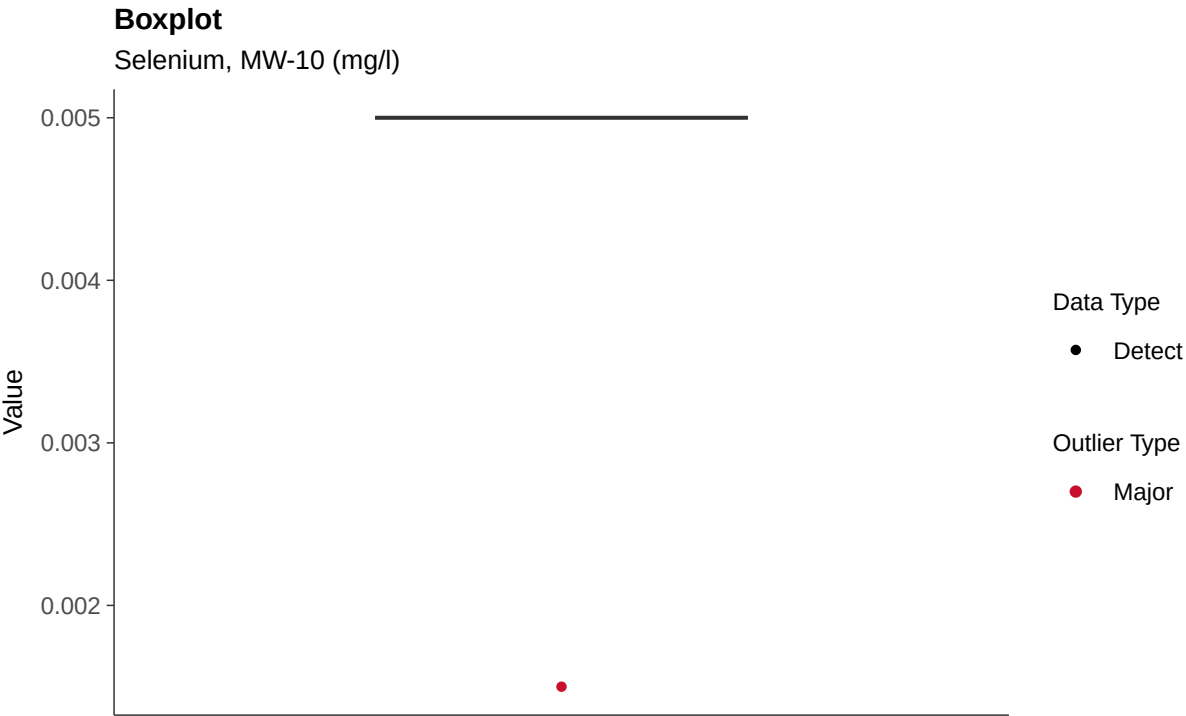


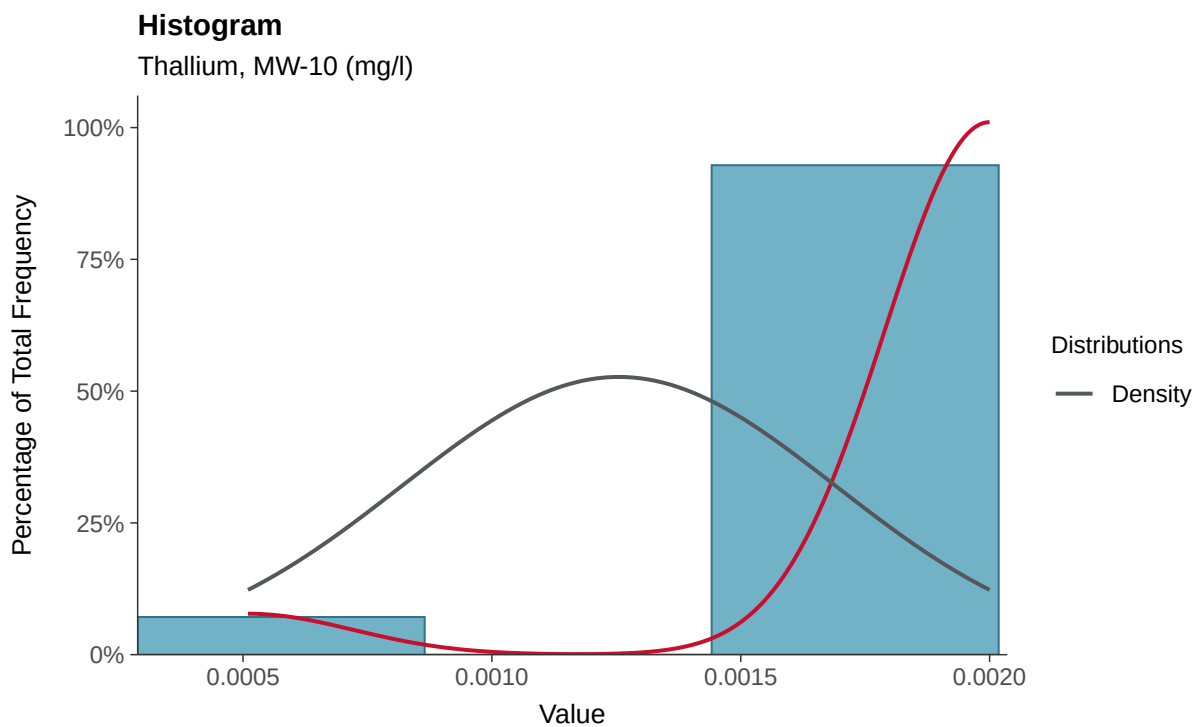


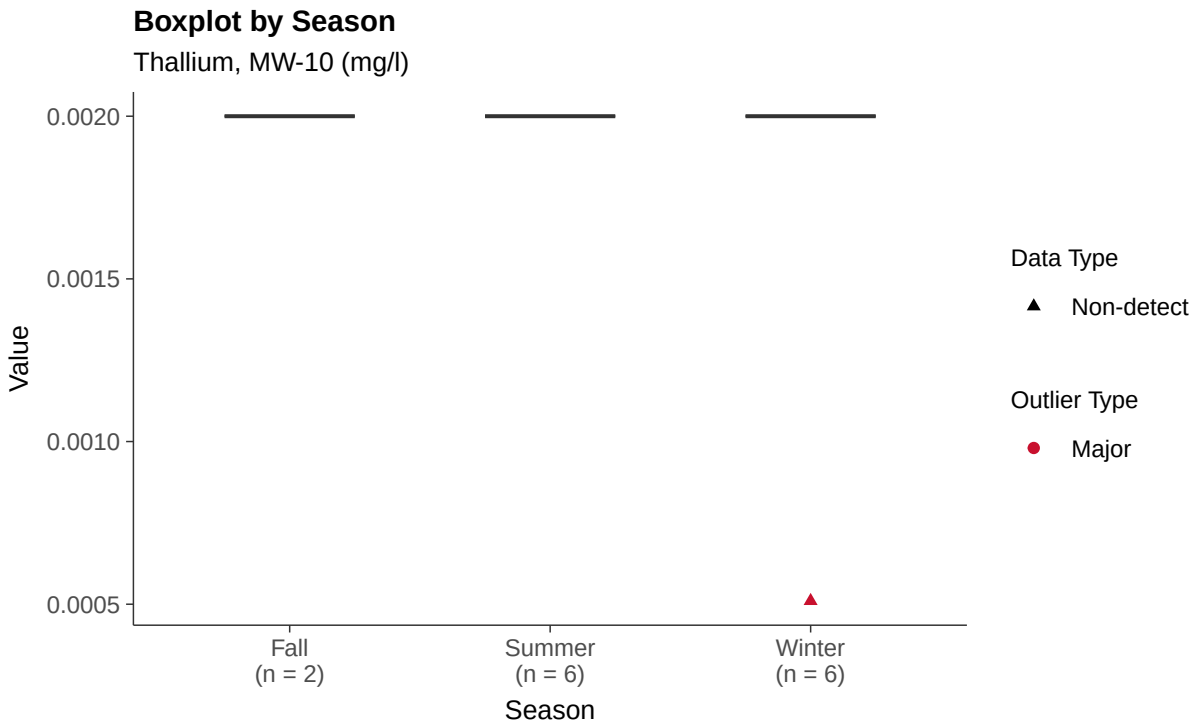
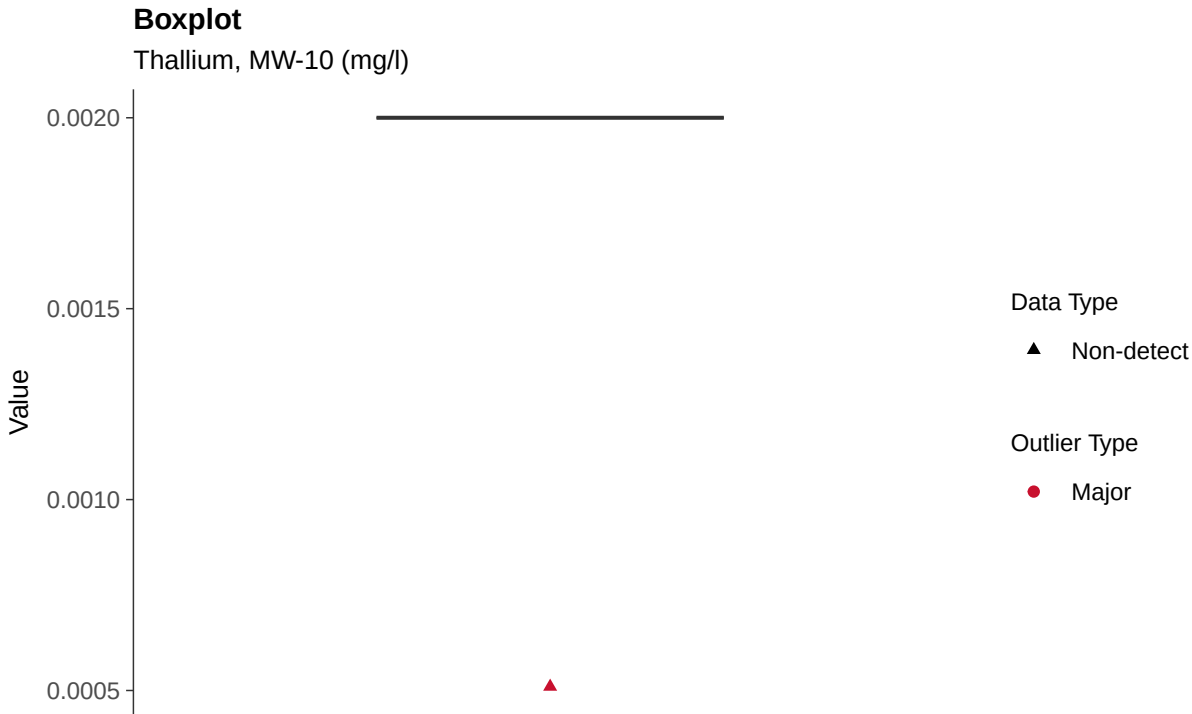
Trend Regression: Piecewise Linear-Linear
Radium-226+228, MW-10 (pci/l)







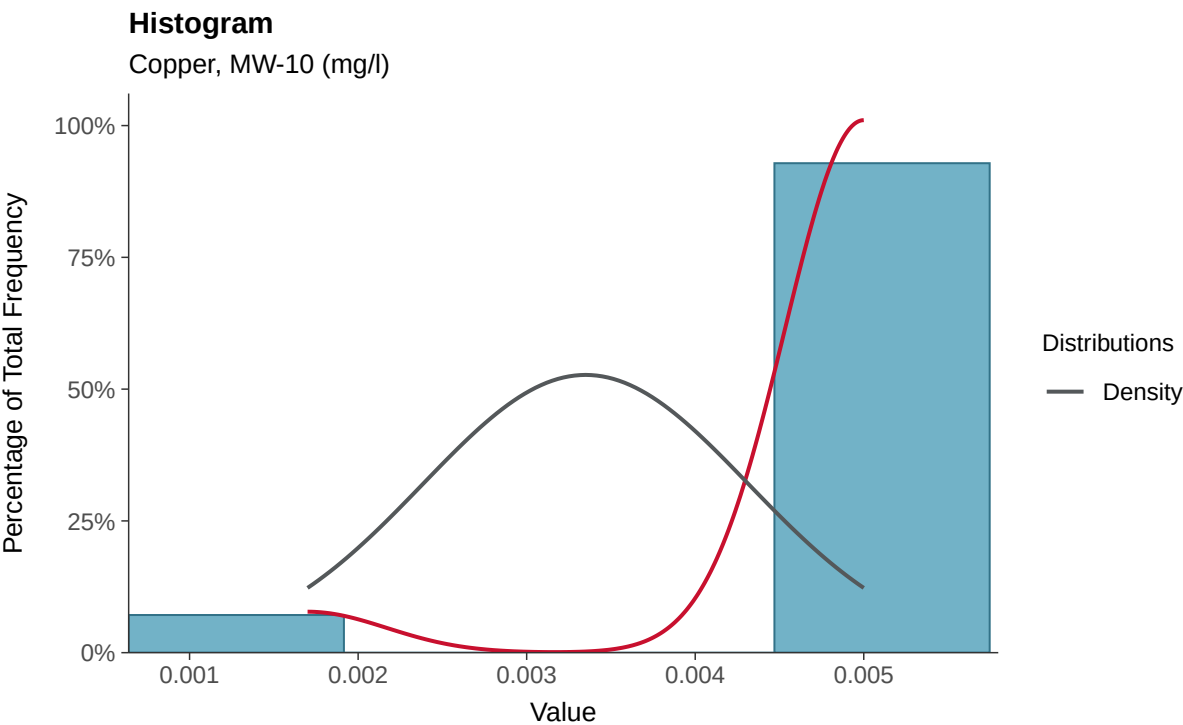
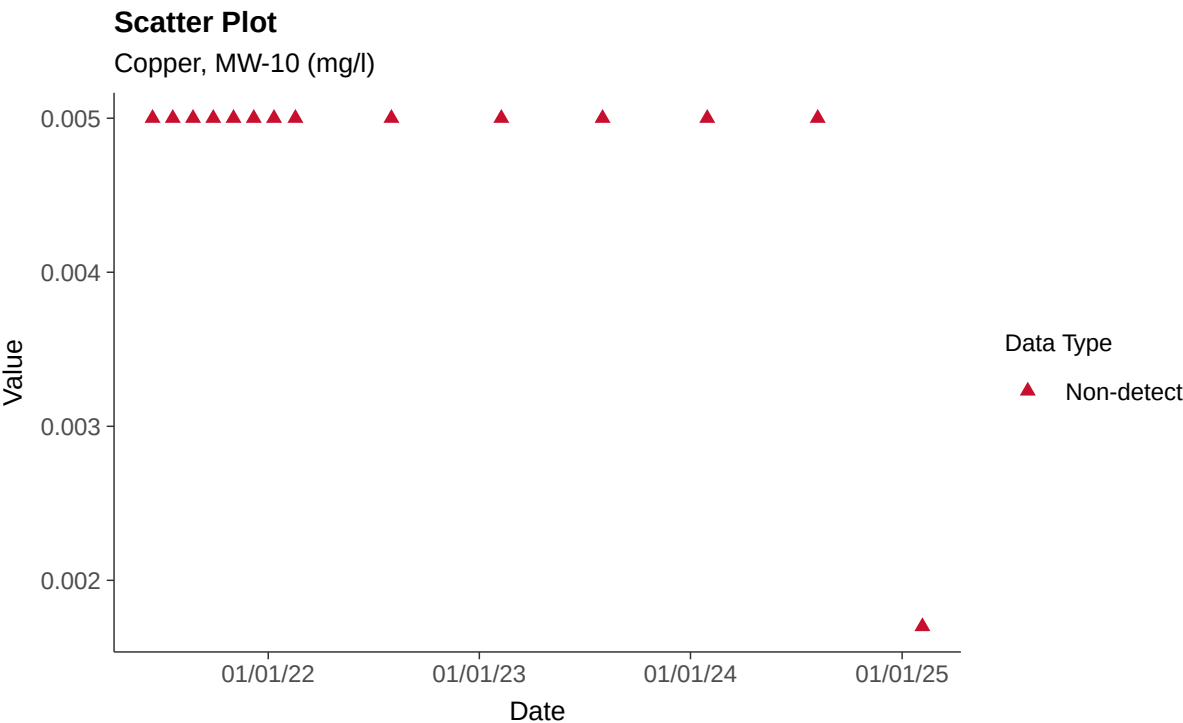


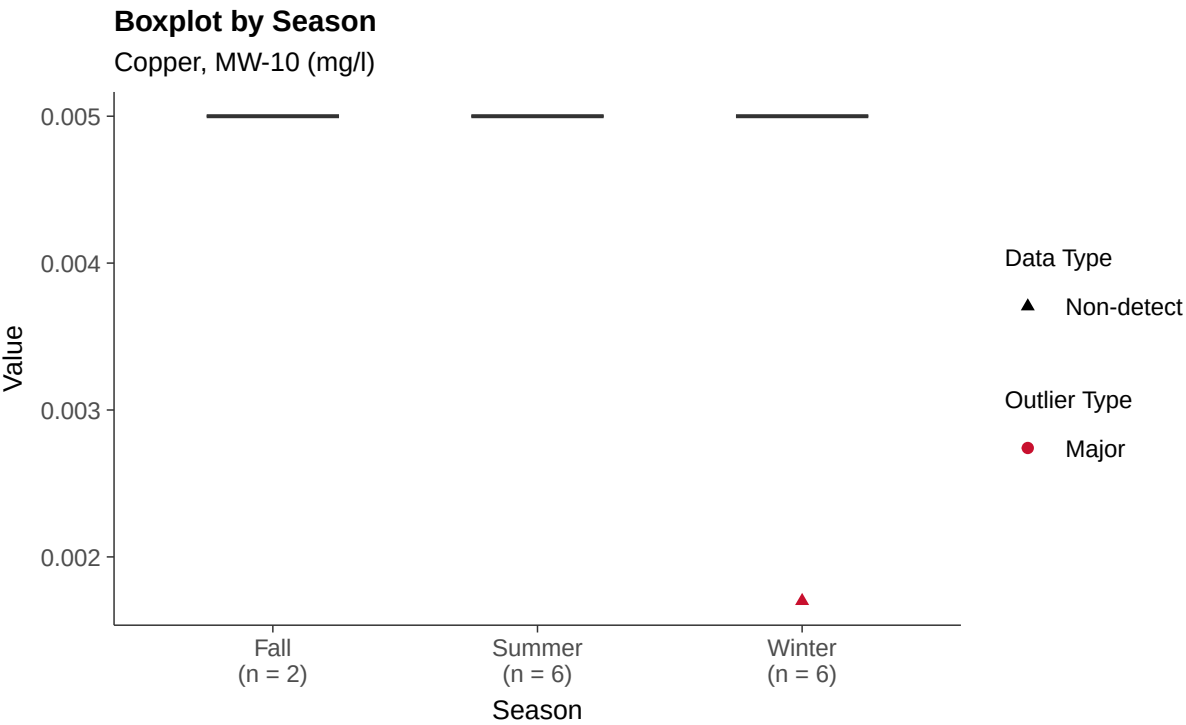
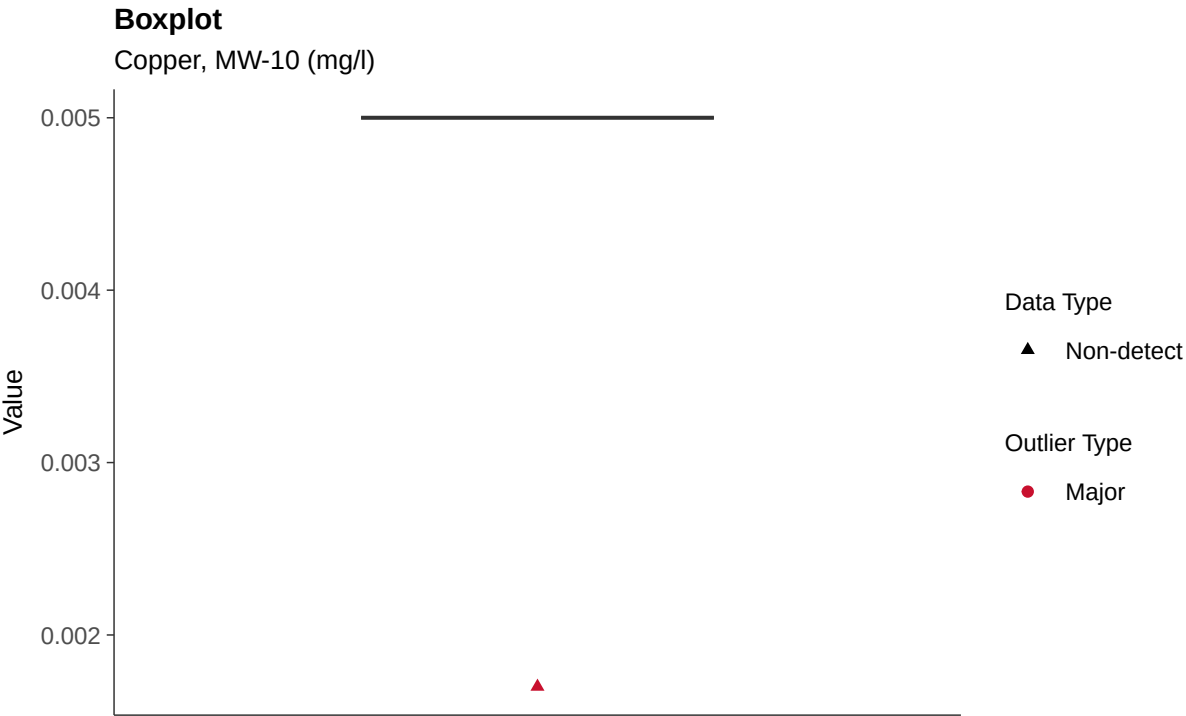


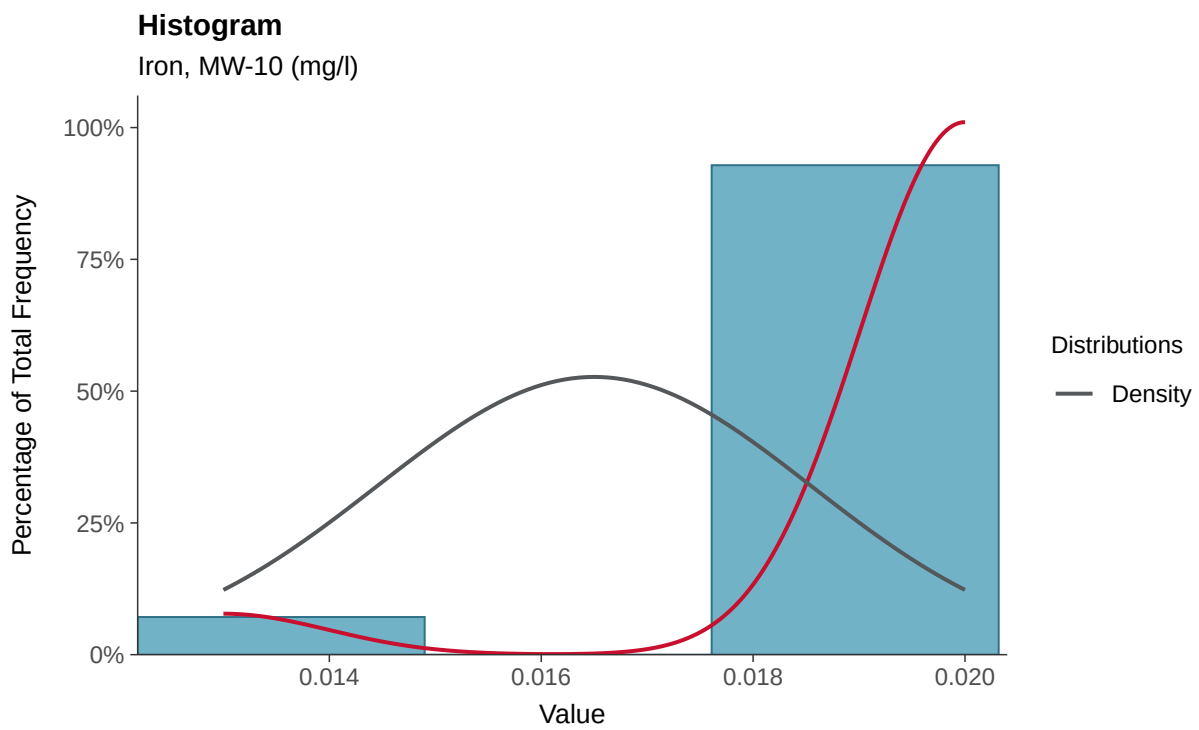


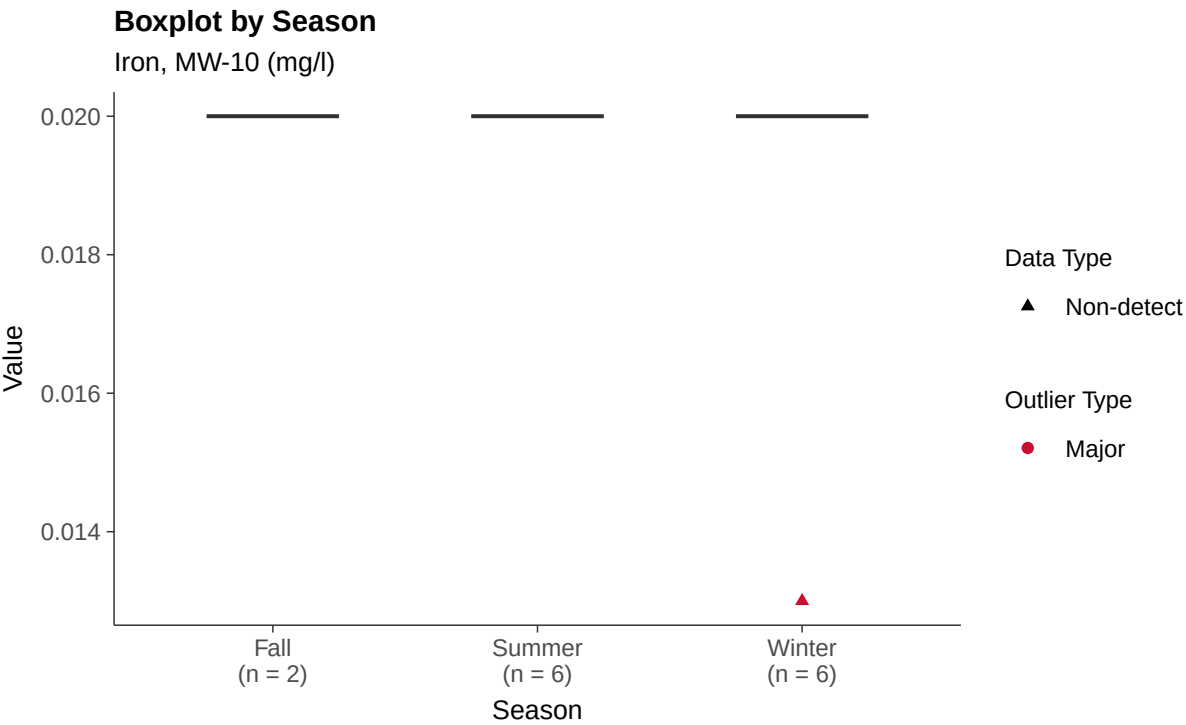
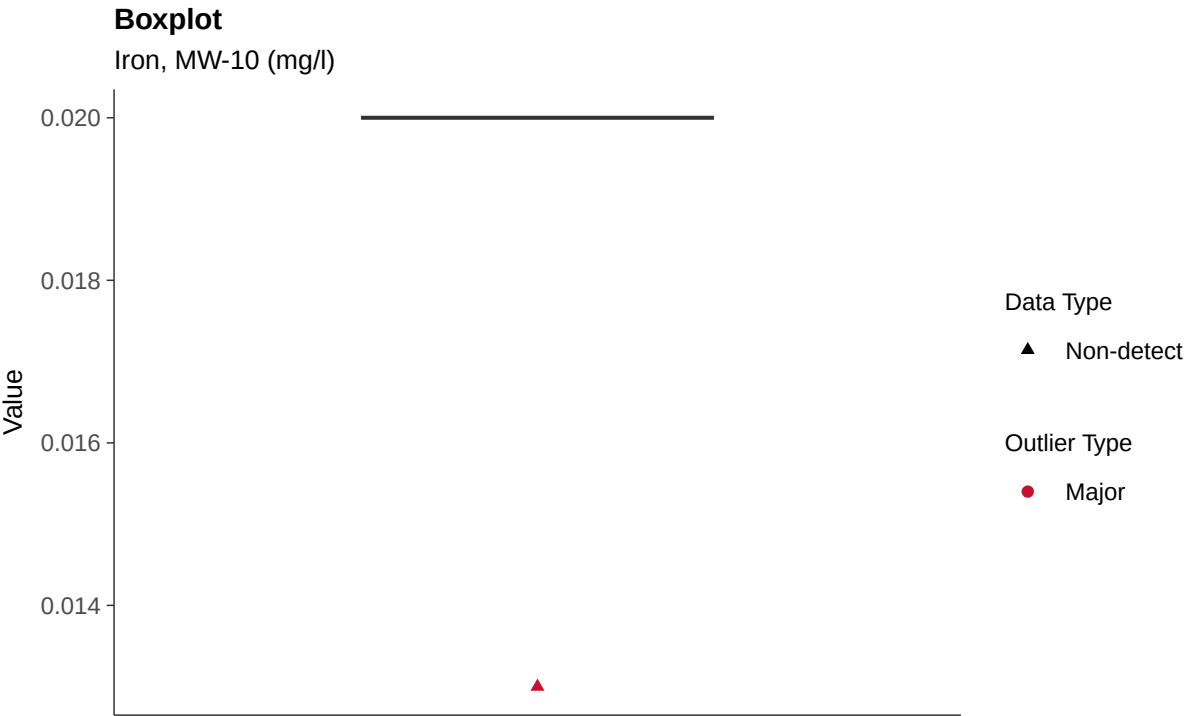
Part 115: Copper, MW-10

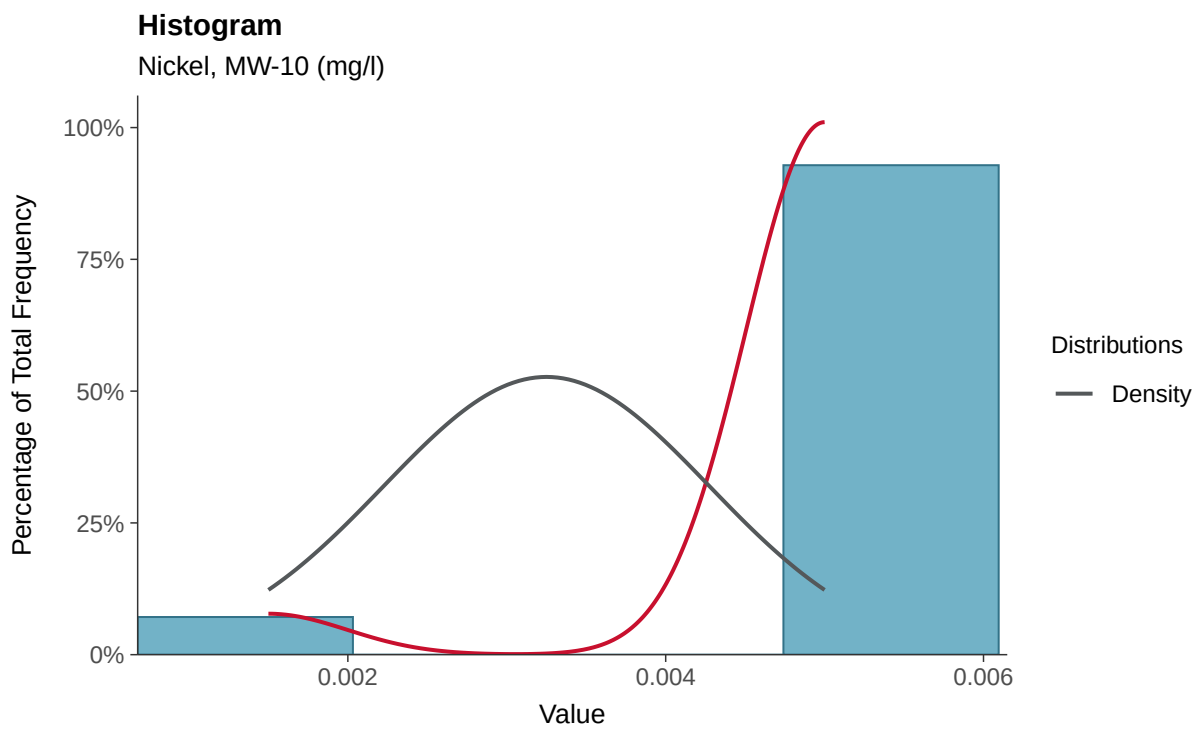
ID: 19_5_111

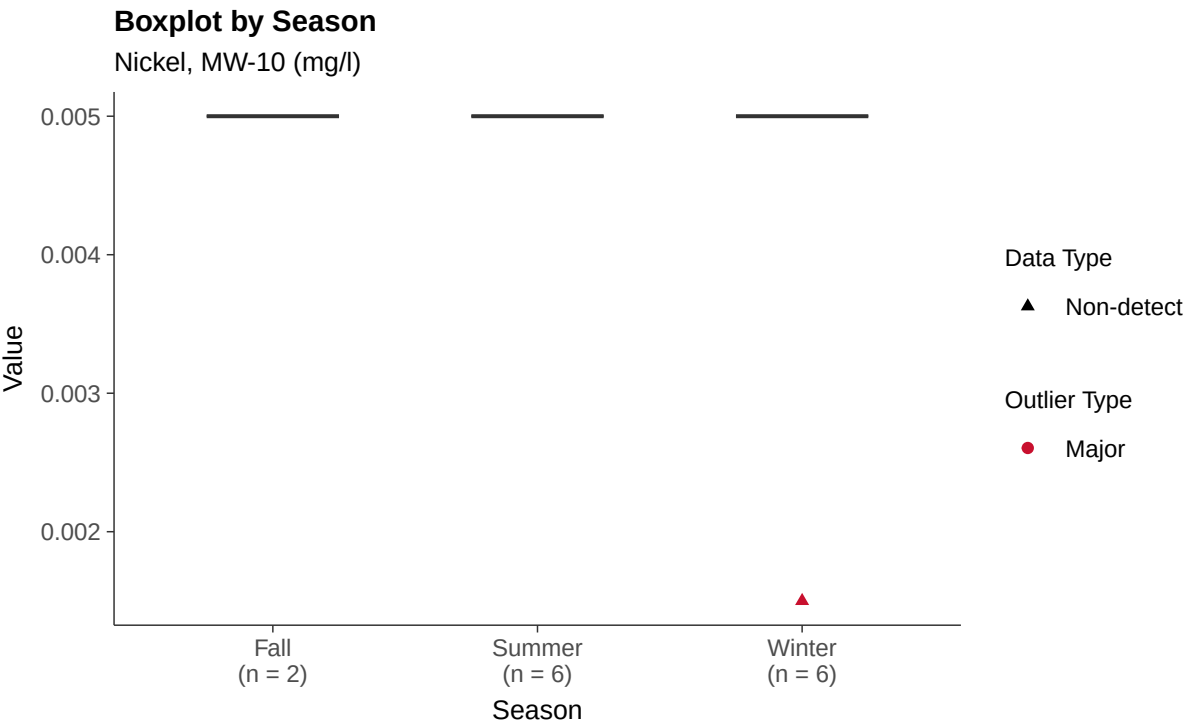
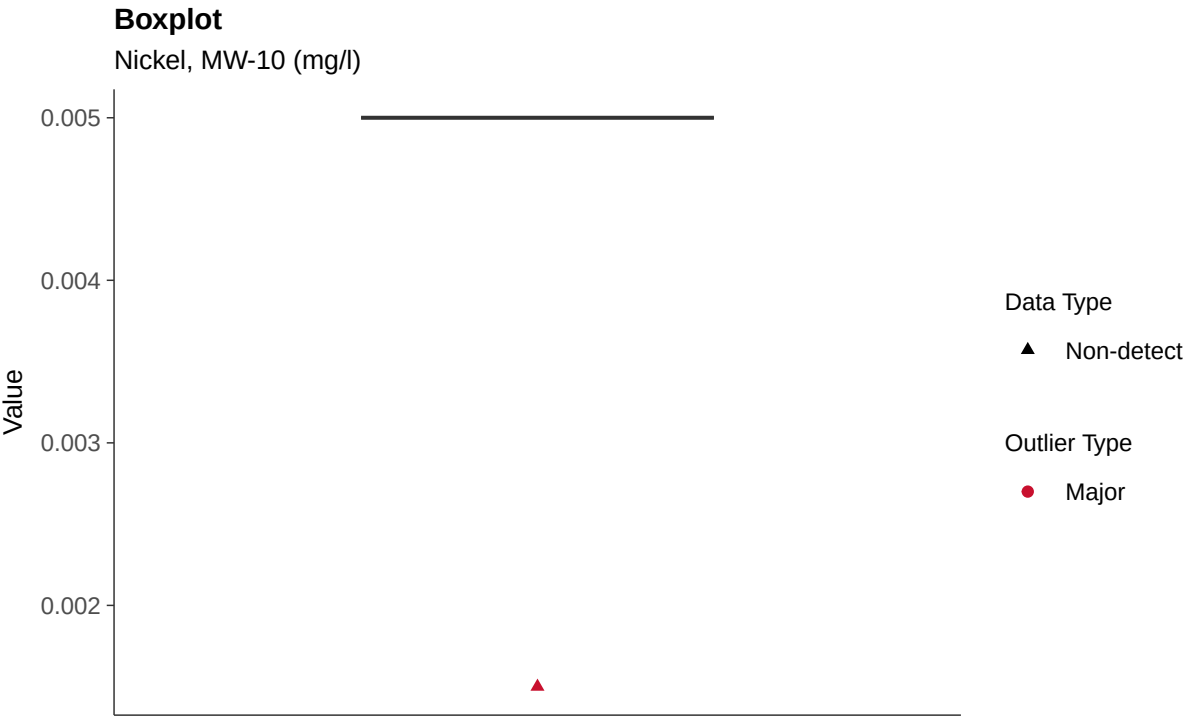








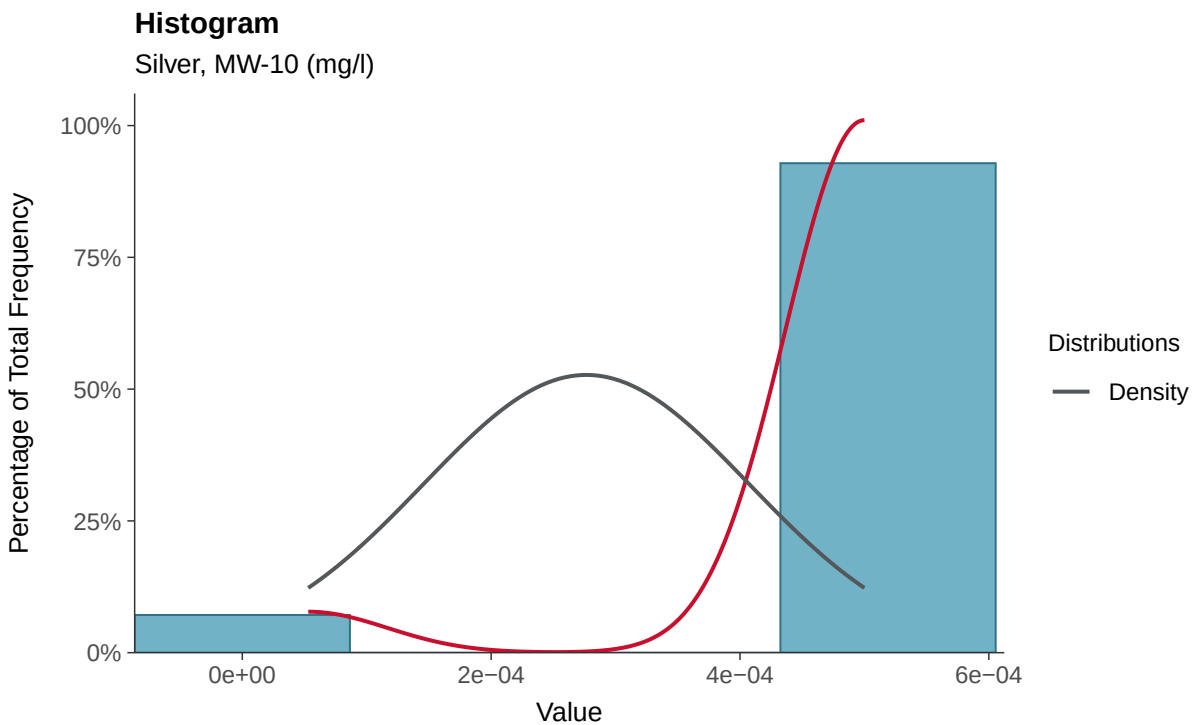
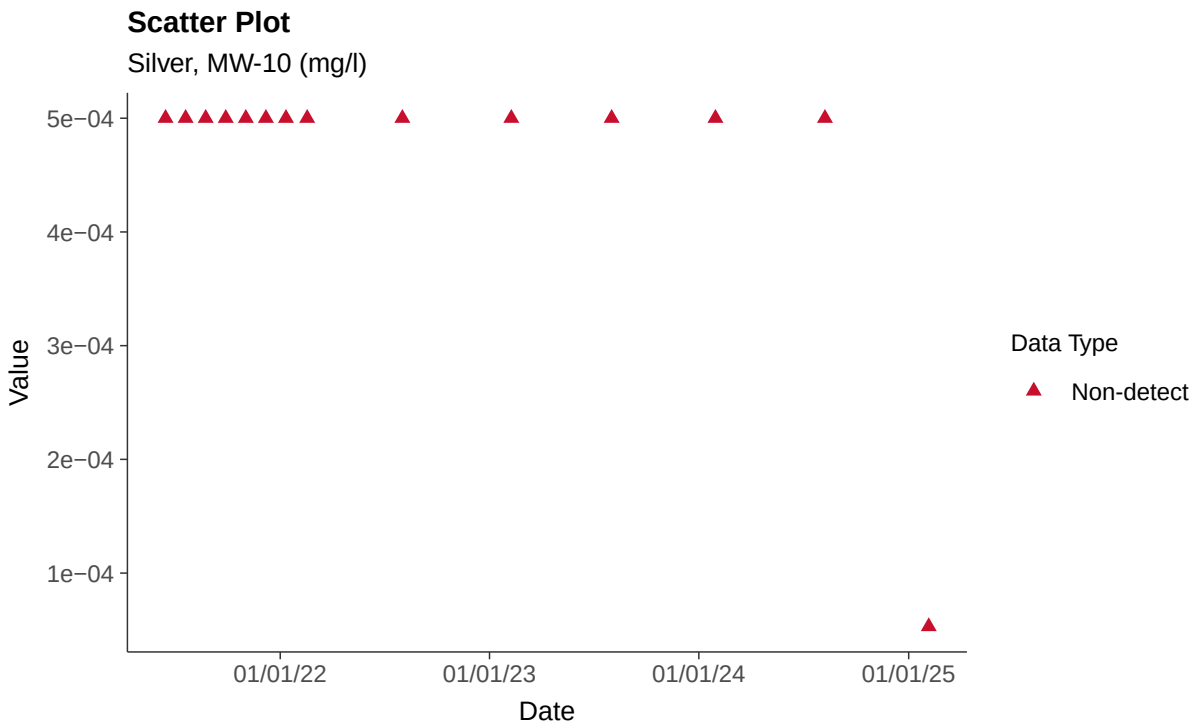


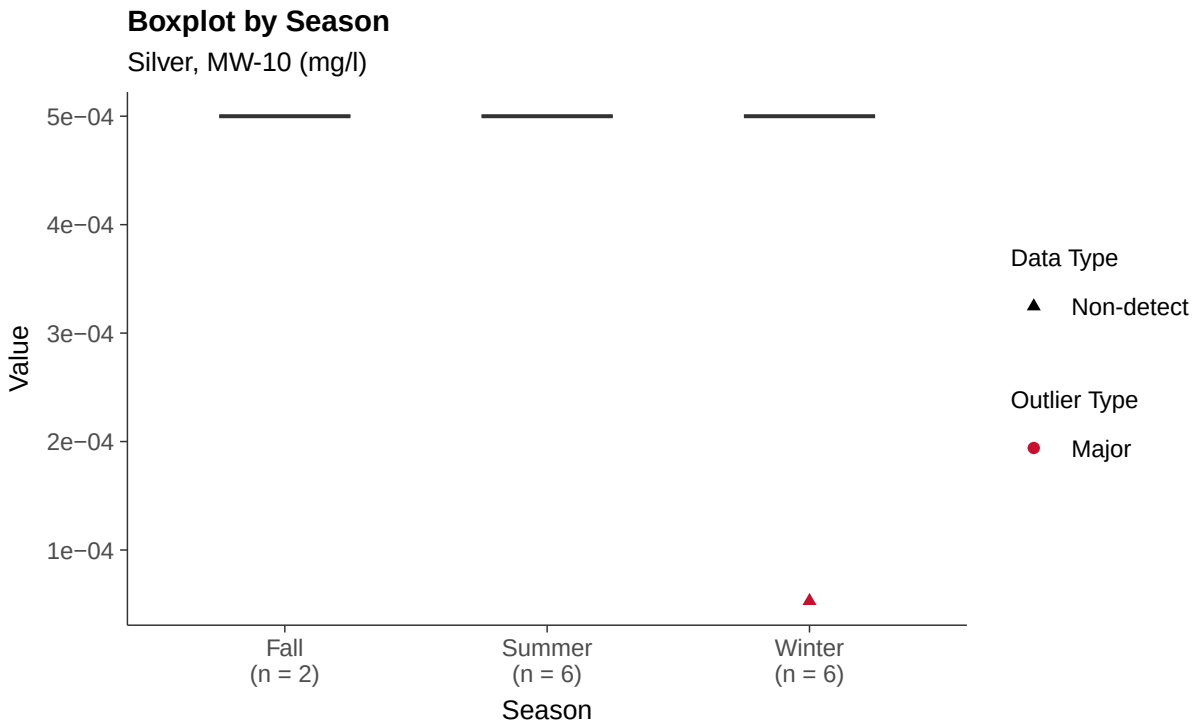
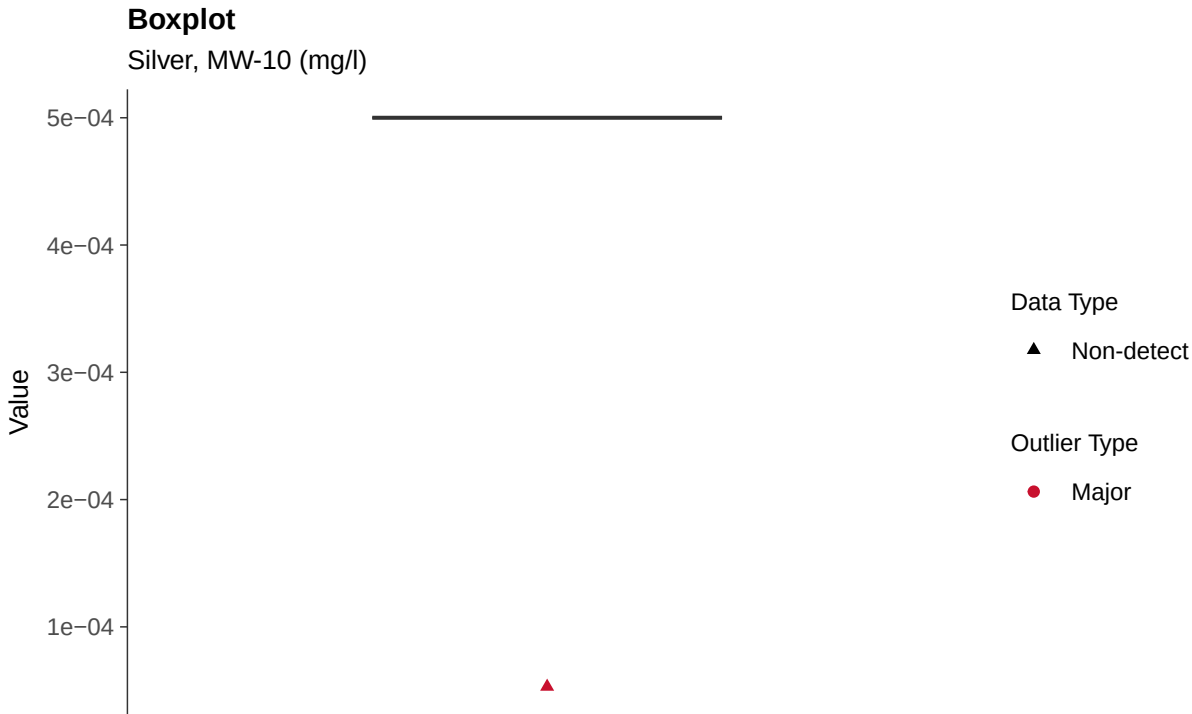




Part 115: Silver, MW-10

ID: 19_5_123

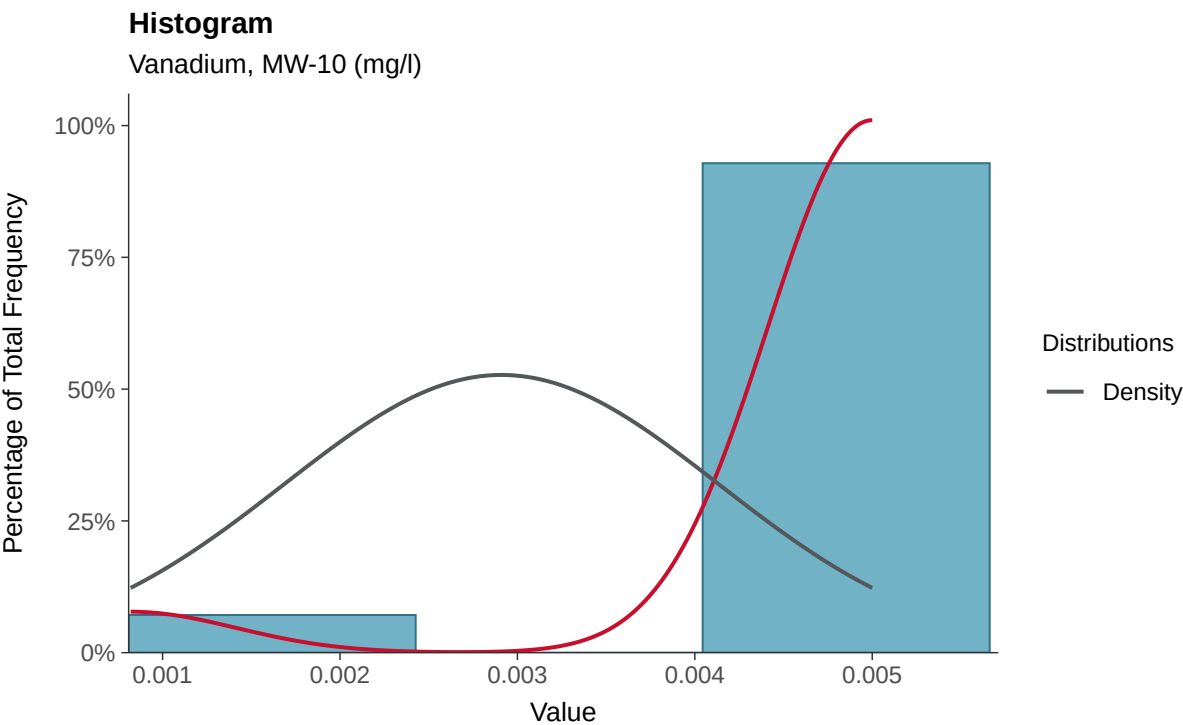
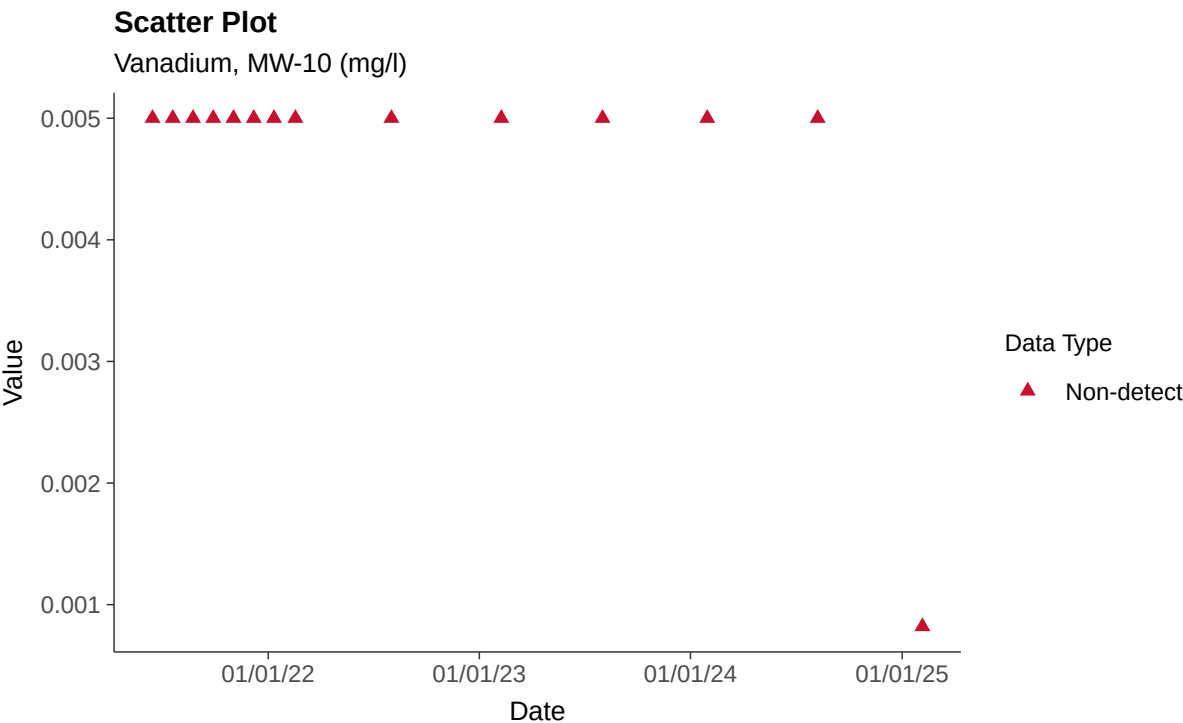


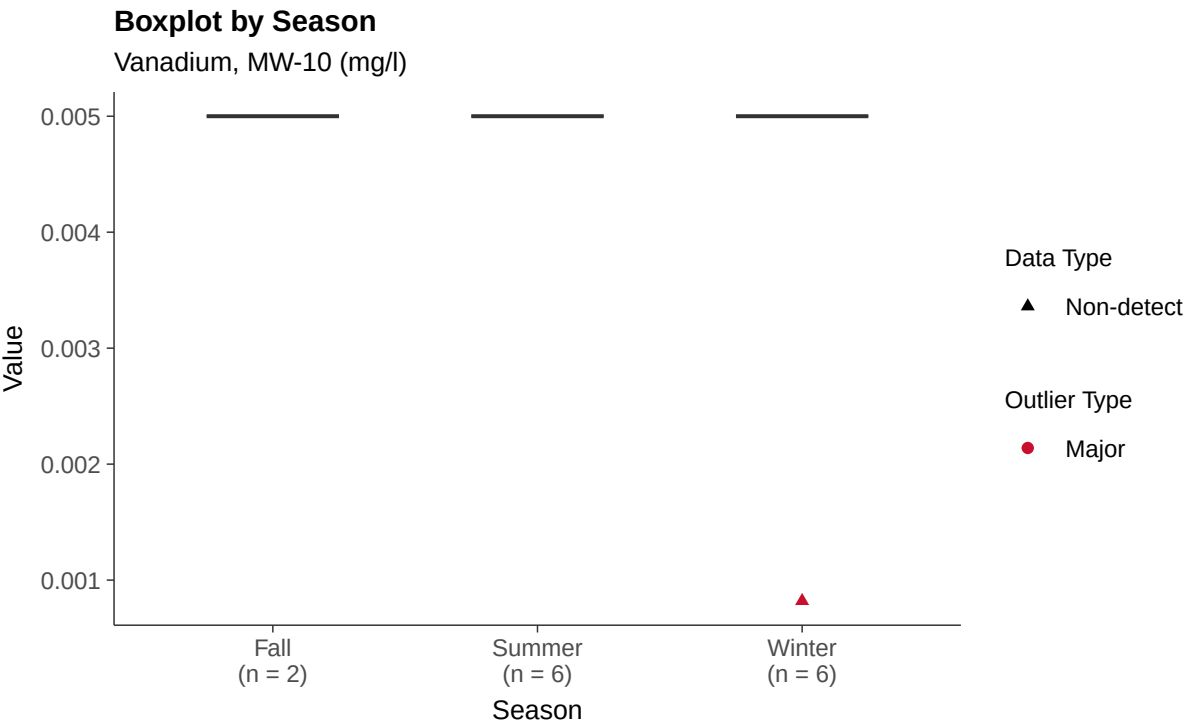
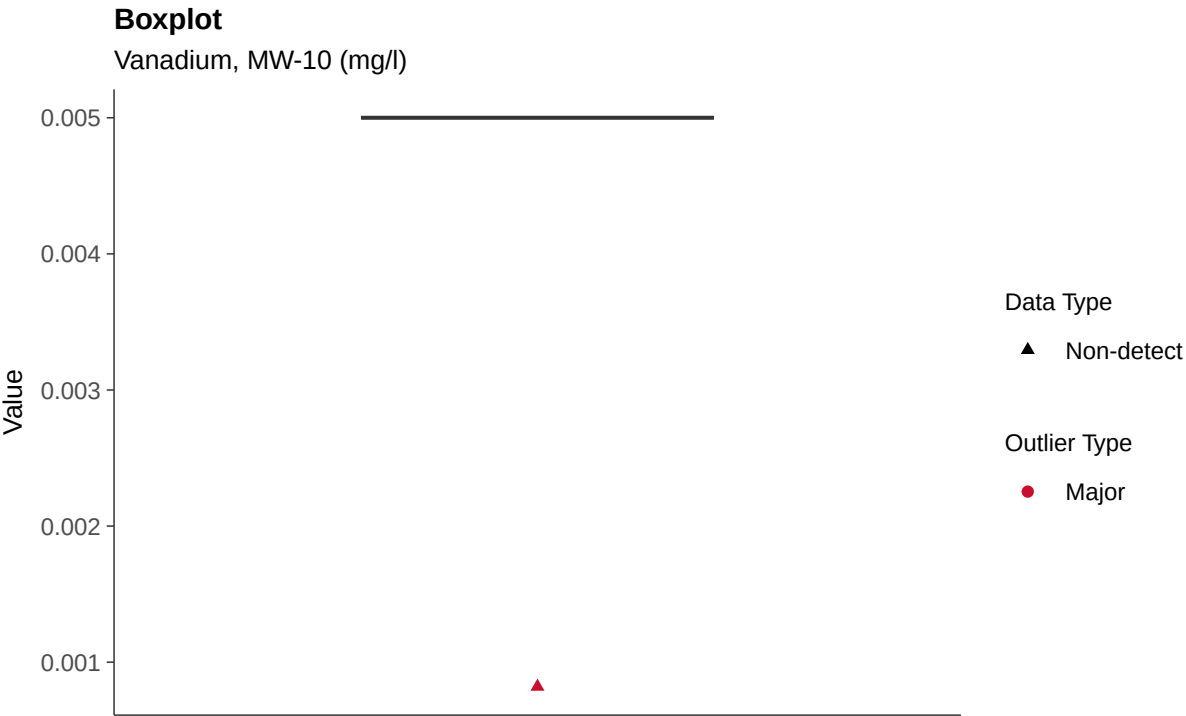




Part 115: Vanadium, MW-10

ID: 19_5_128

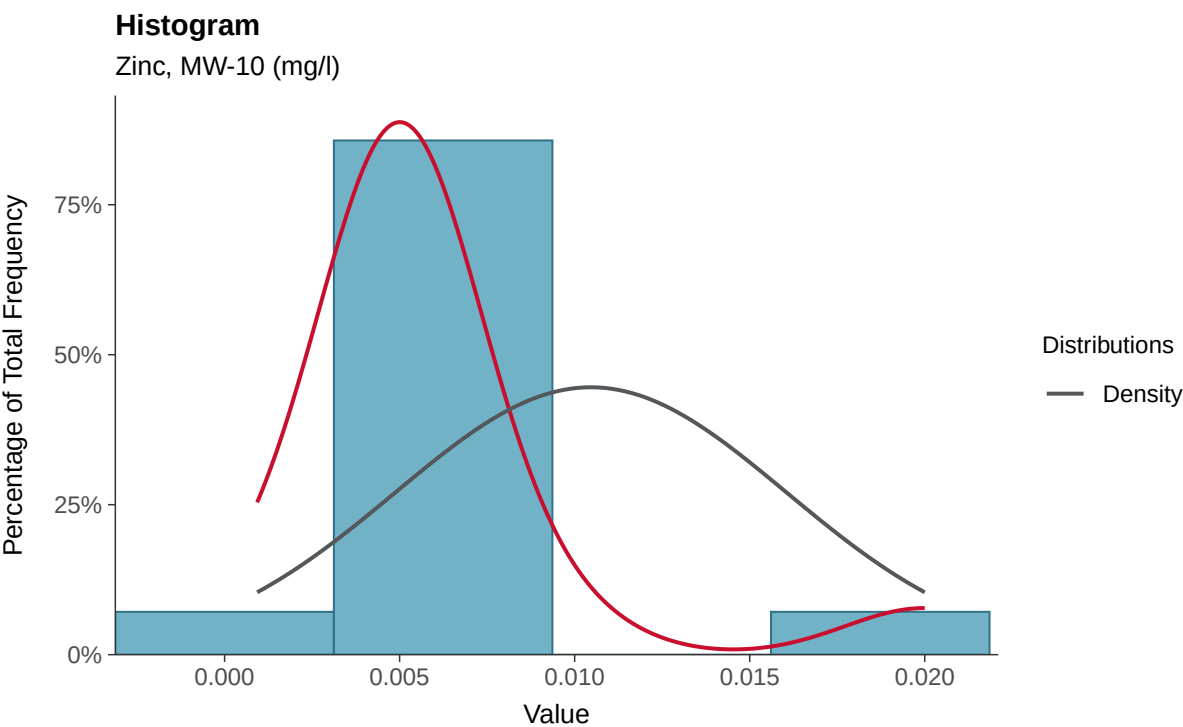
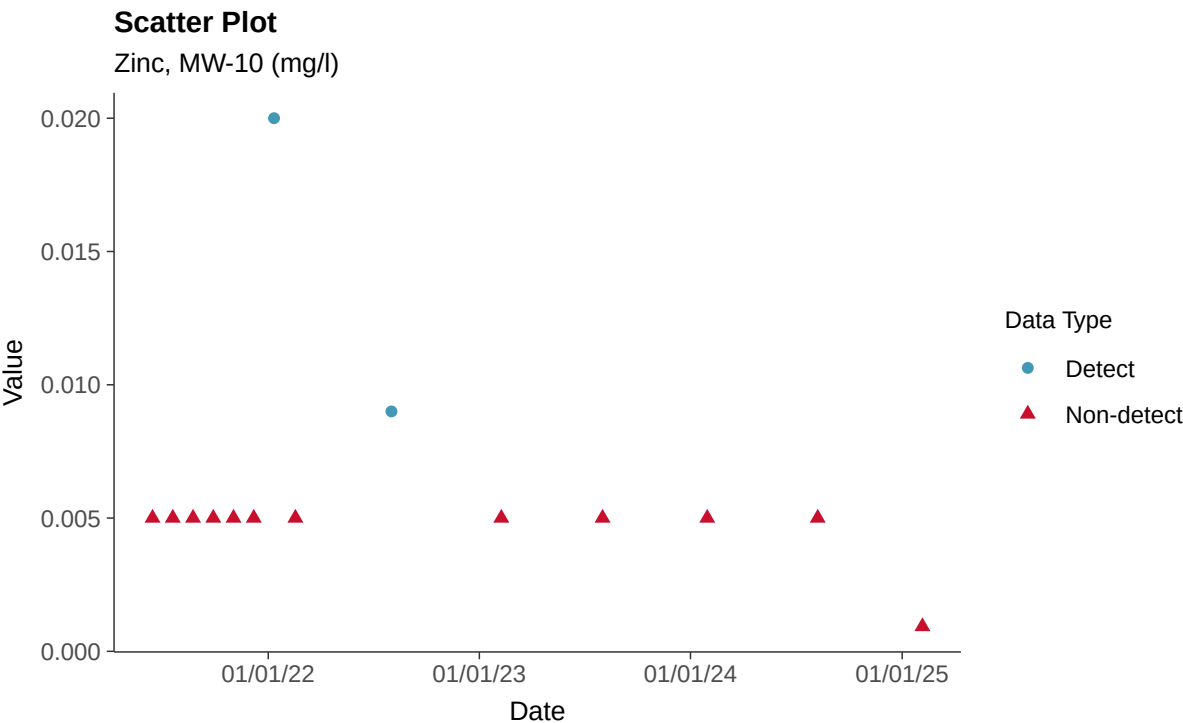


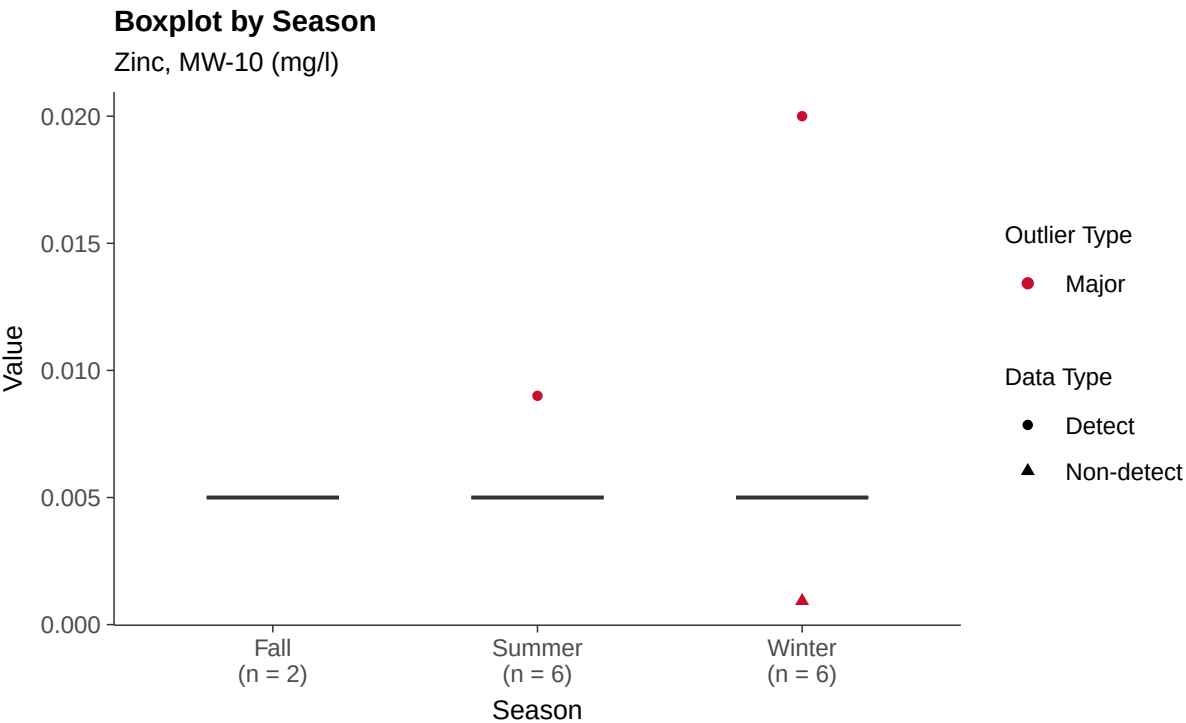


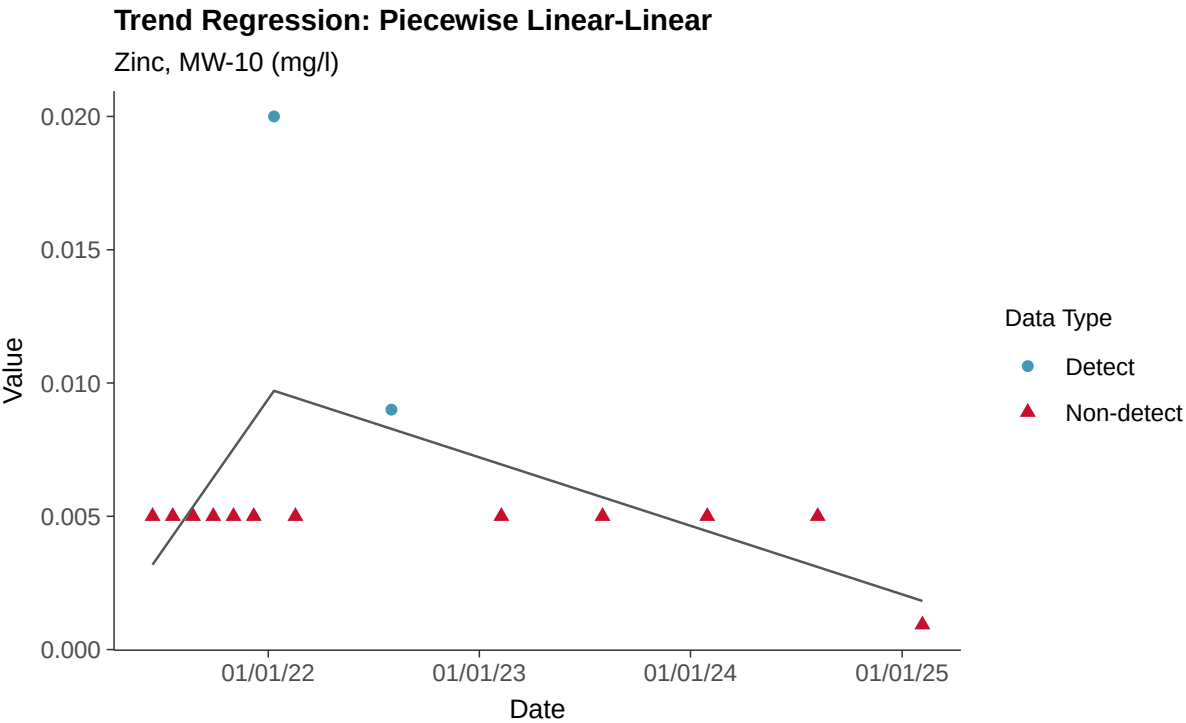
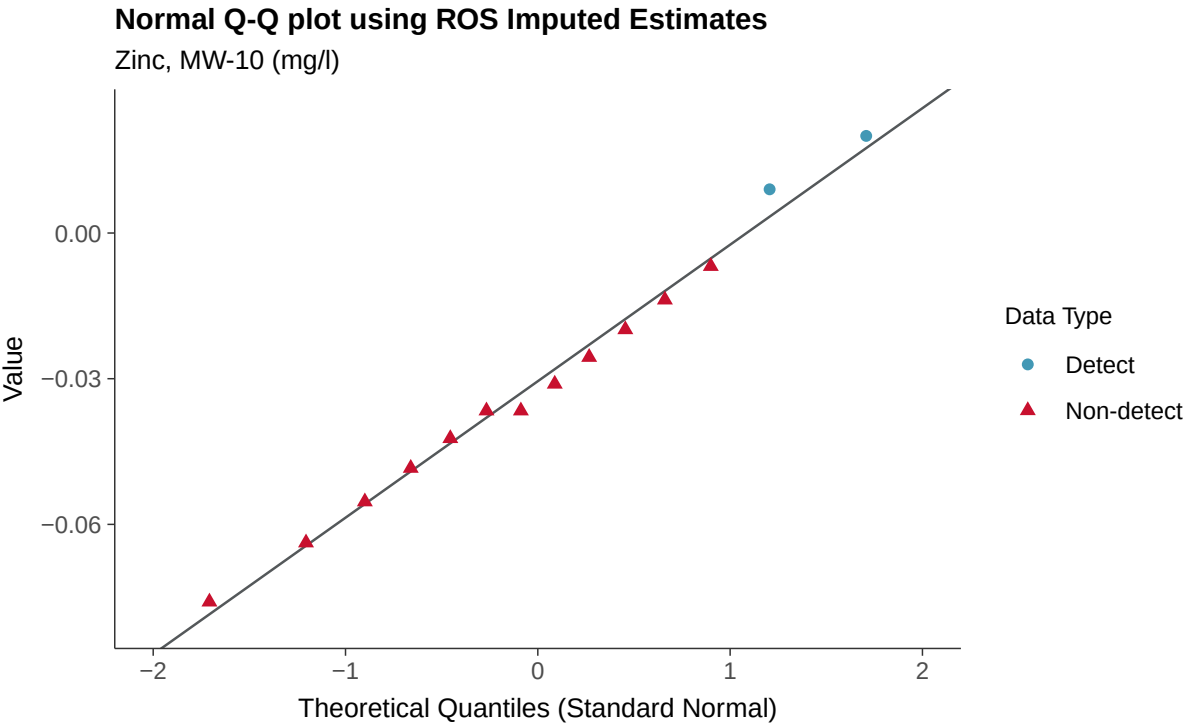


Part 115: Zinc, MW-10

ID: 19_5_129



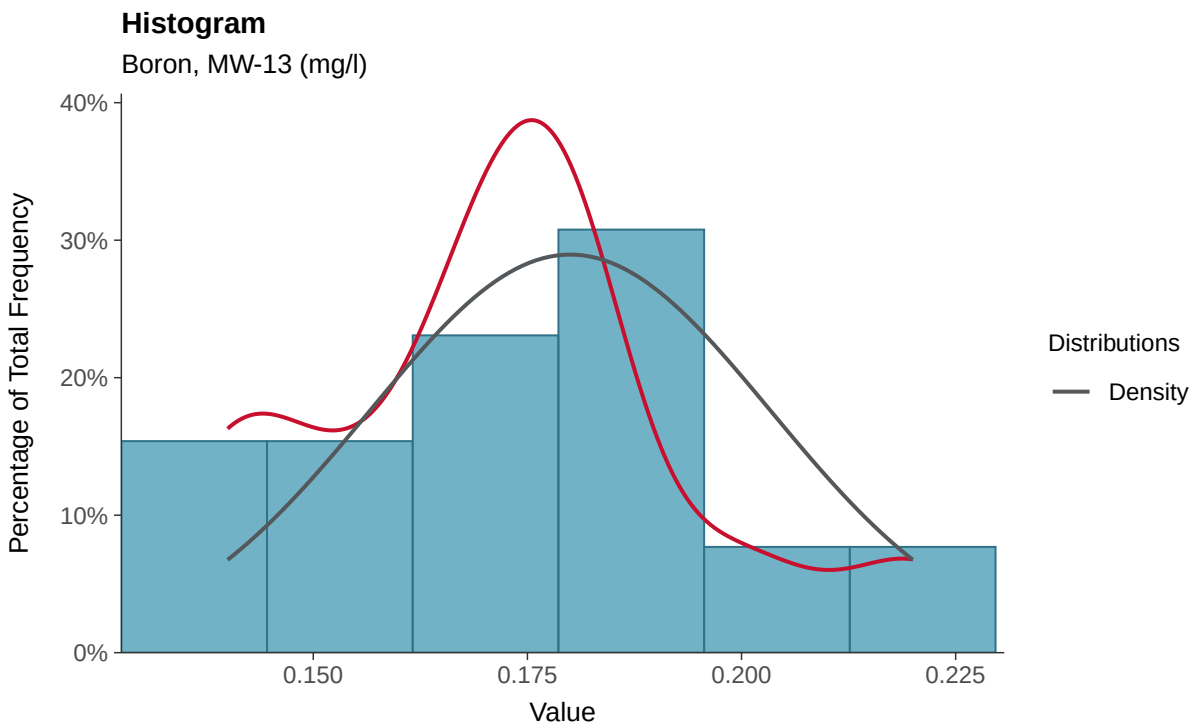
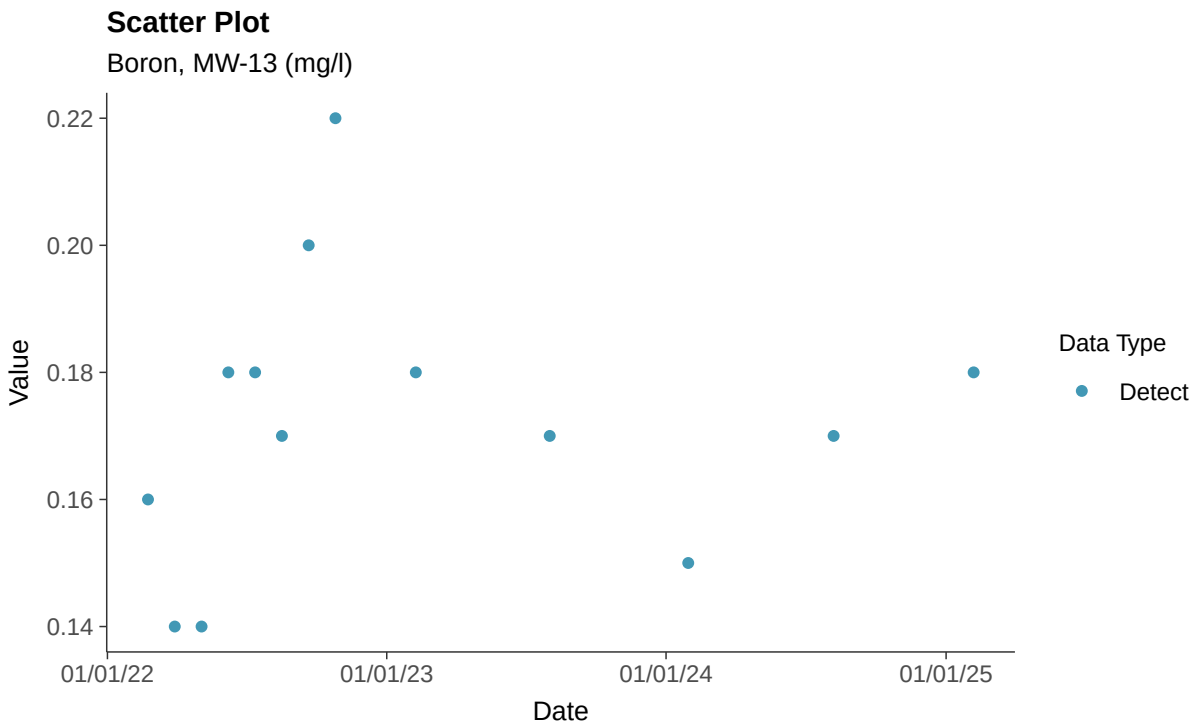


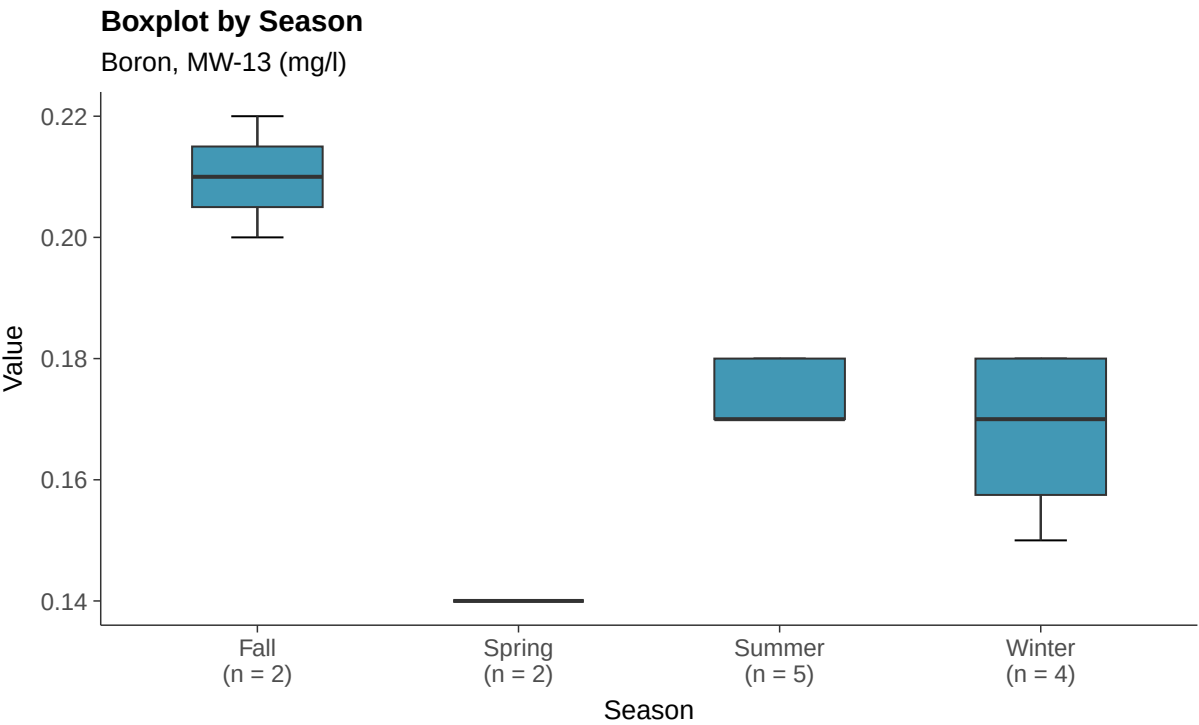
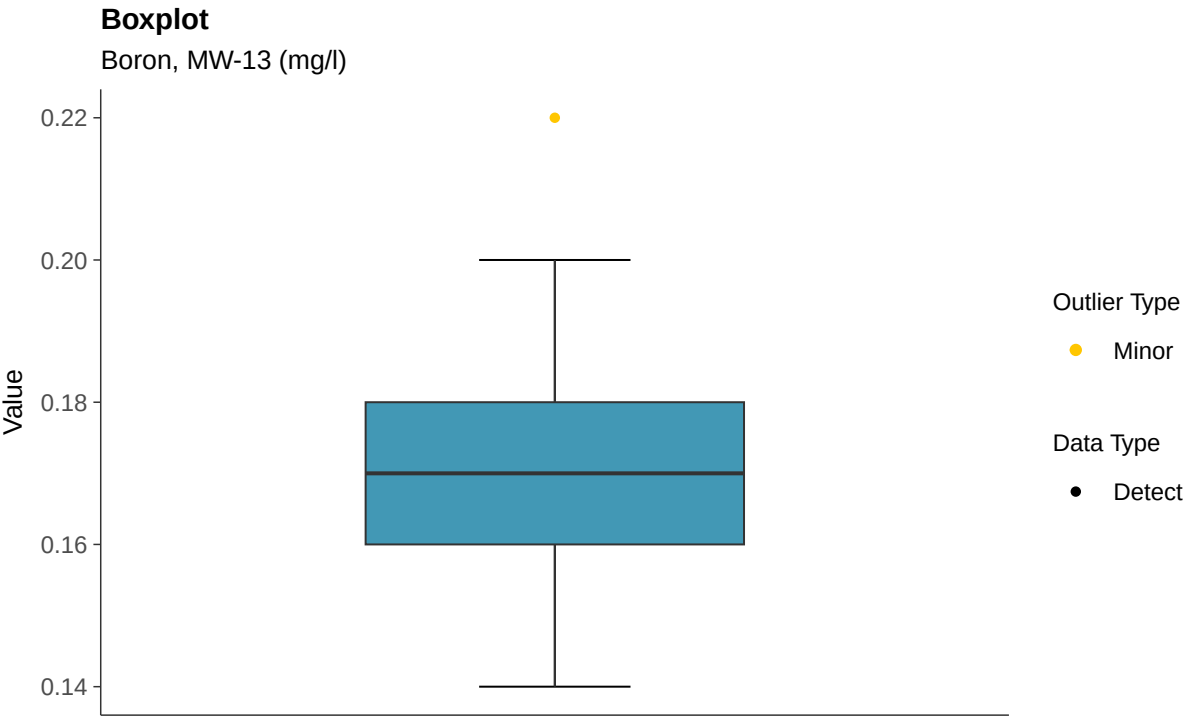


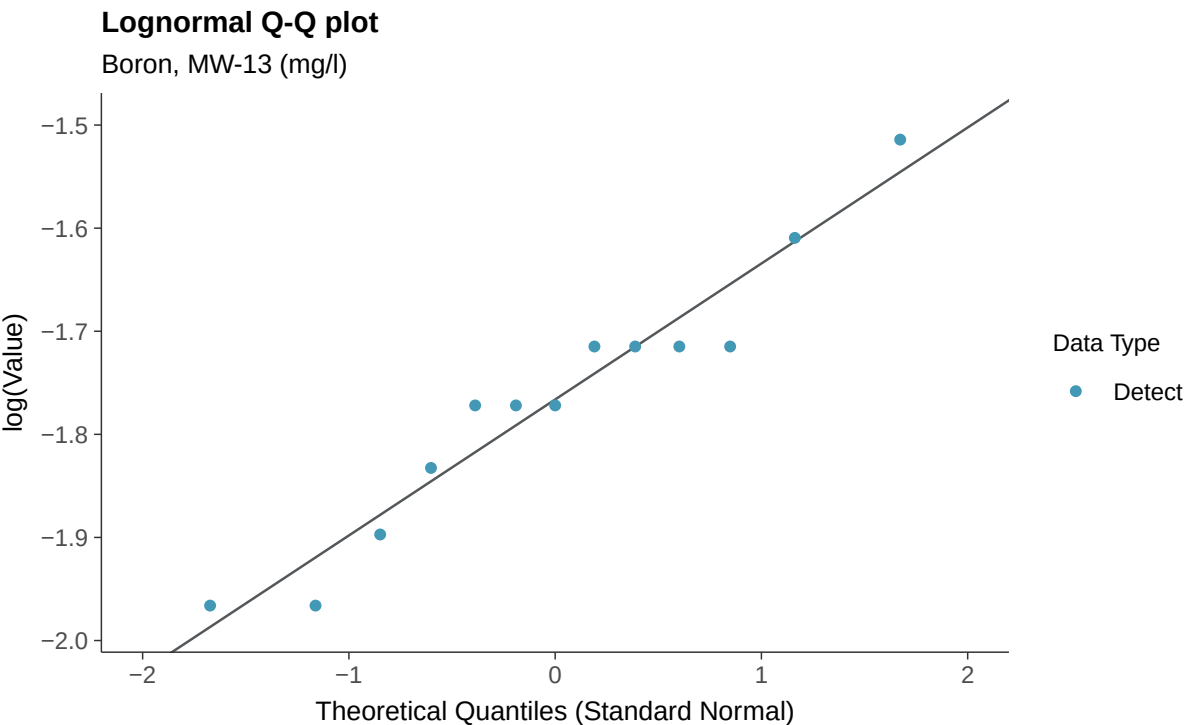
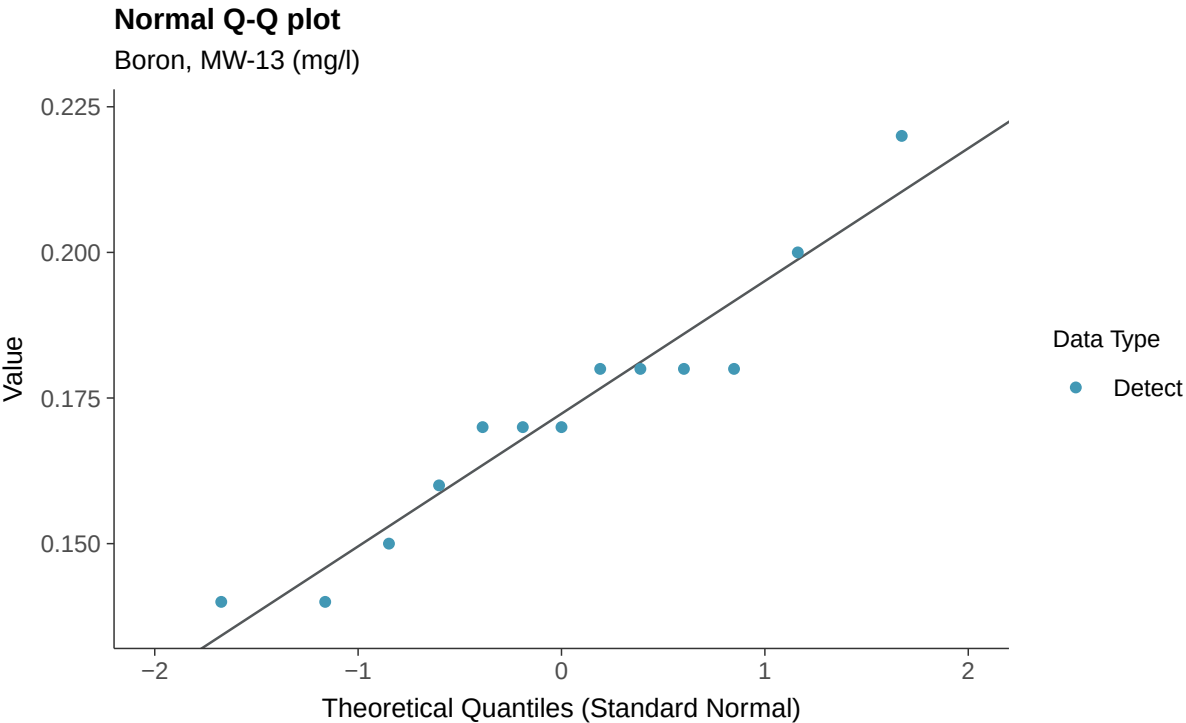


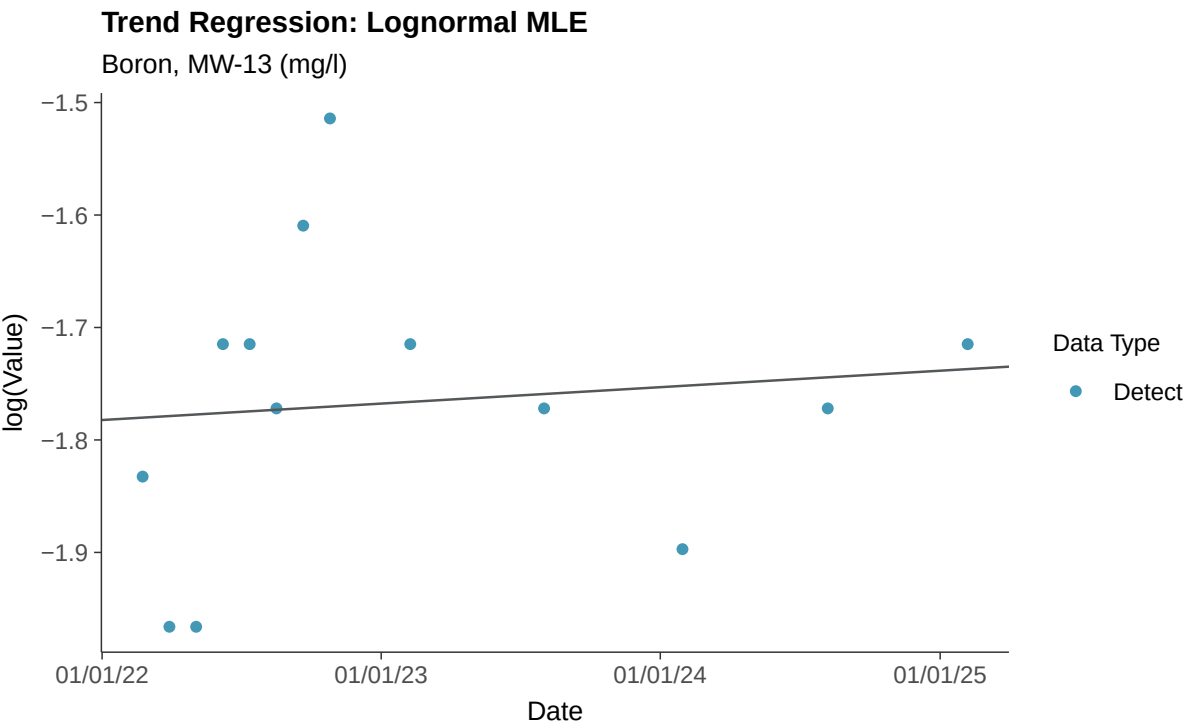
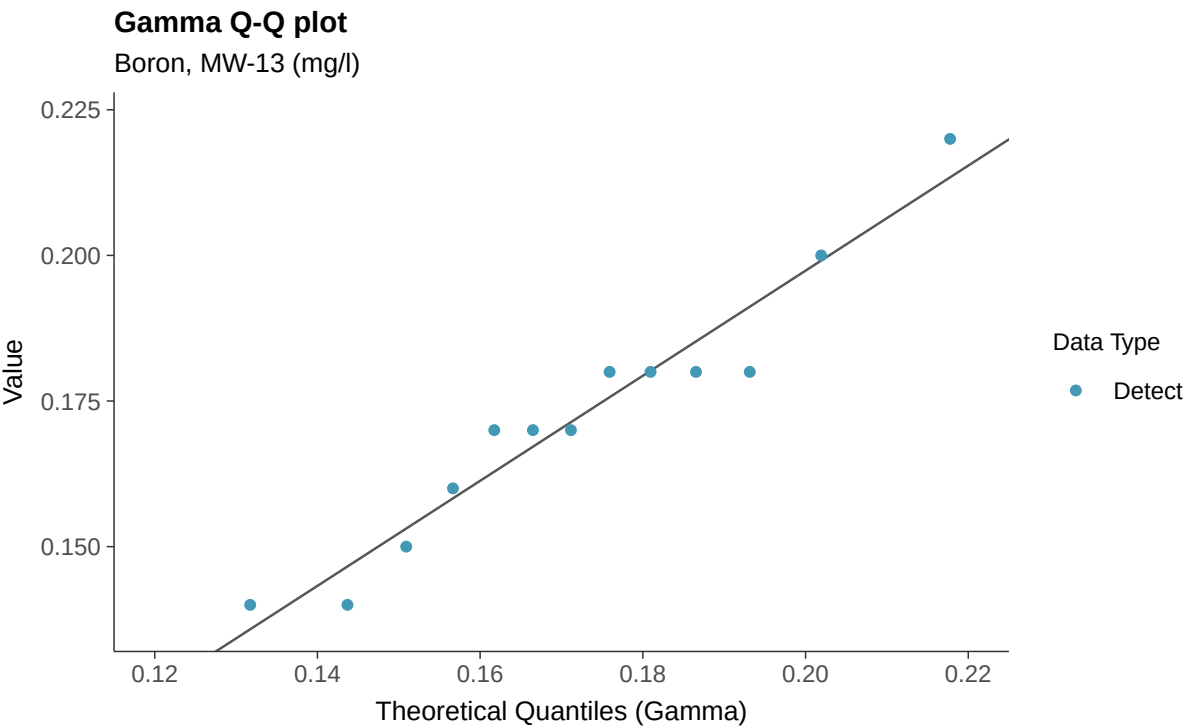
Appendix III: Boron, MW-13

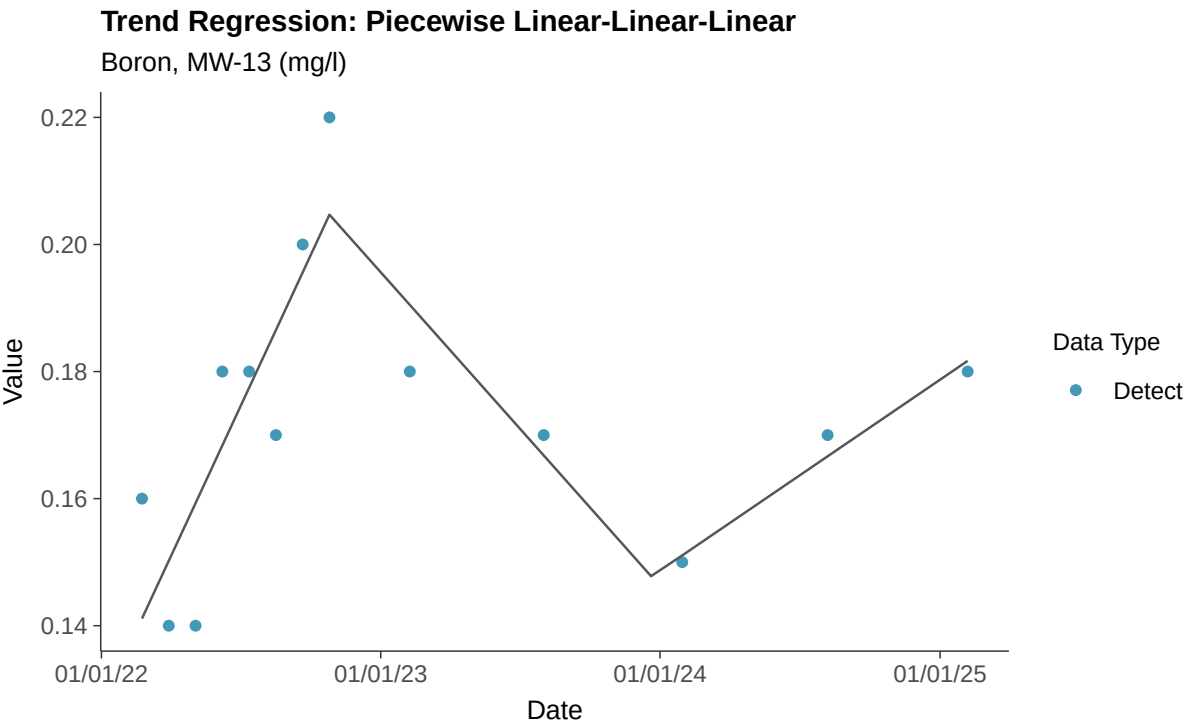
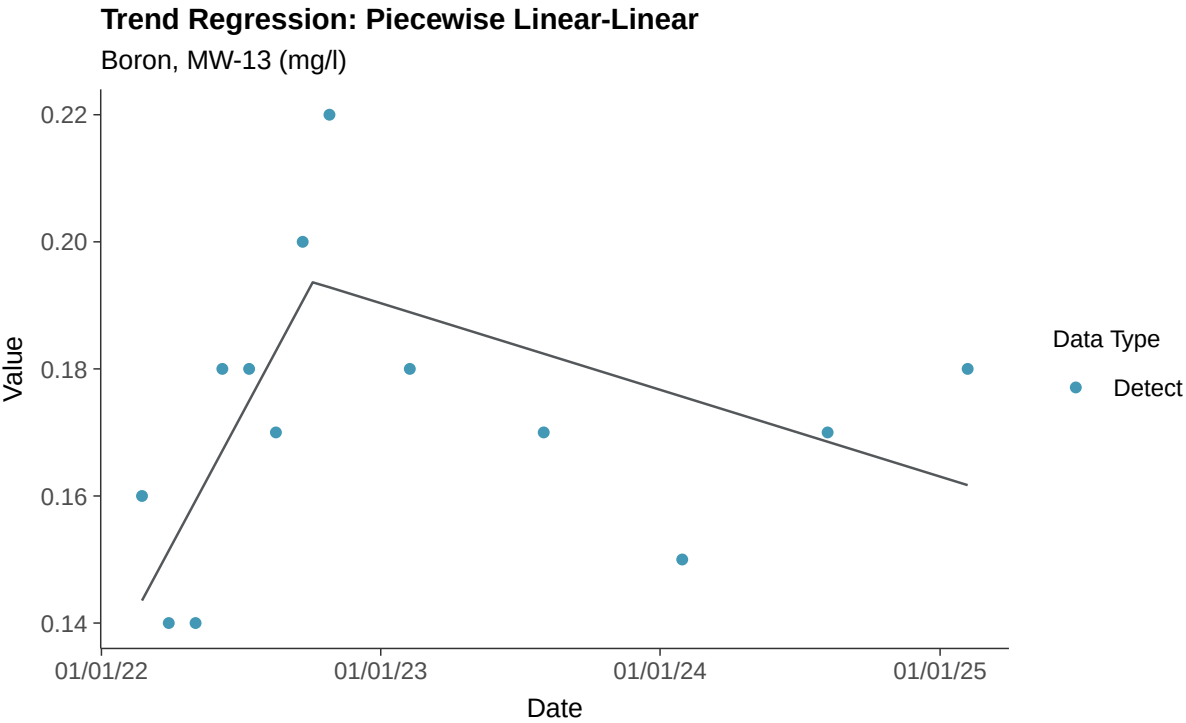
ID: 20_2_105







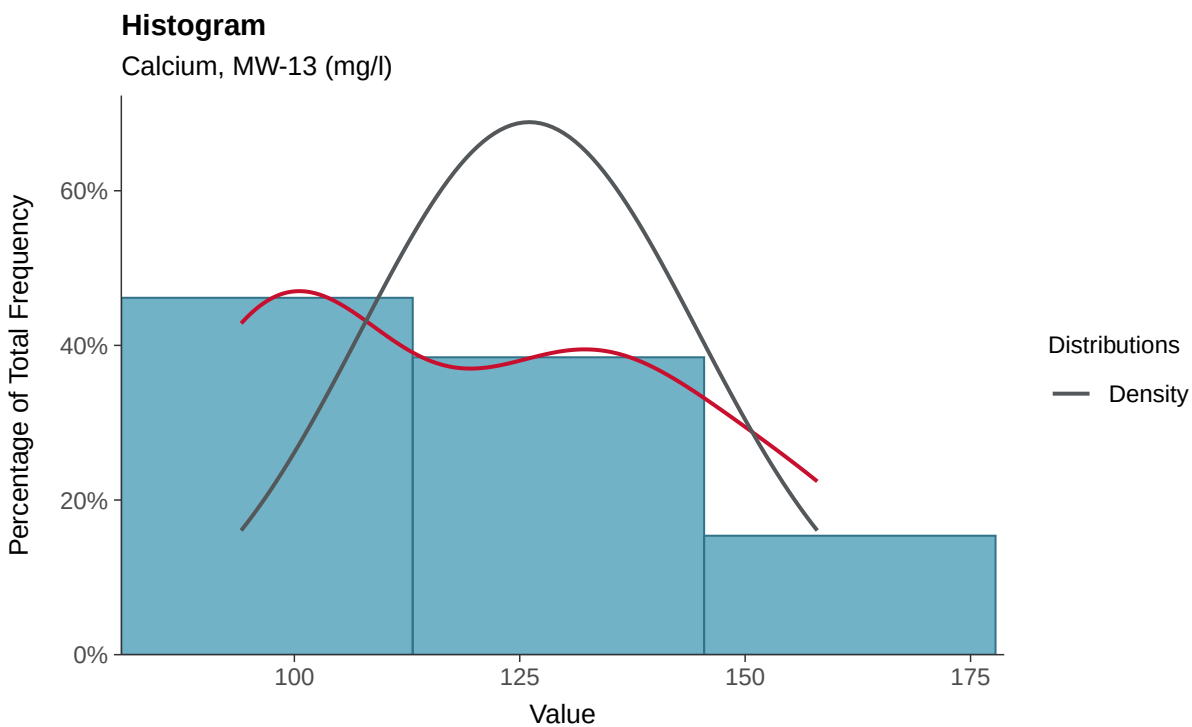
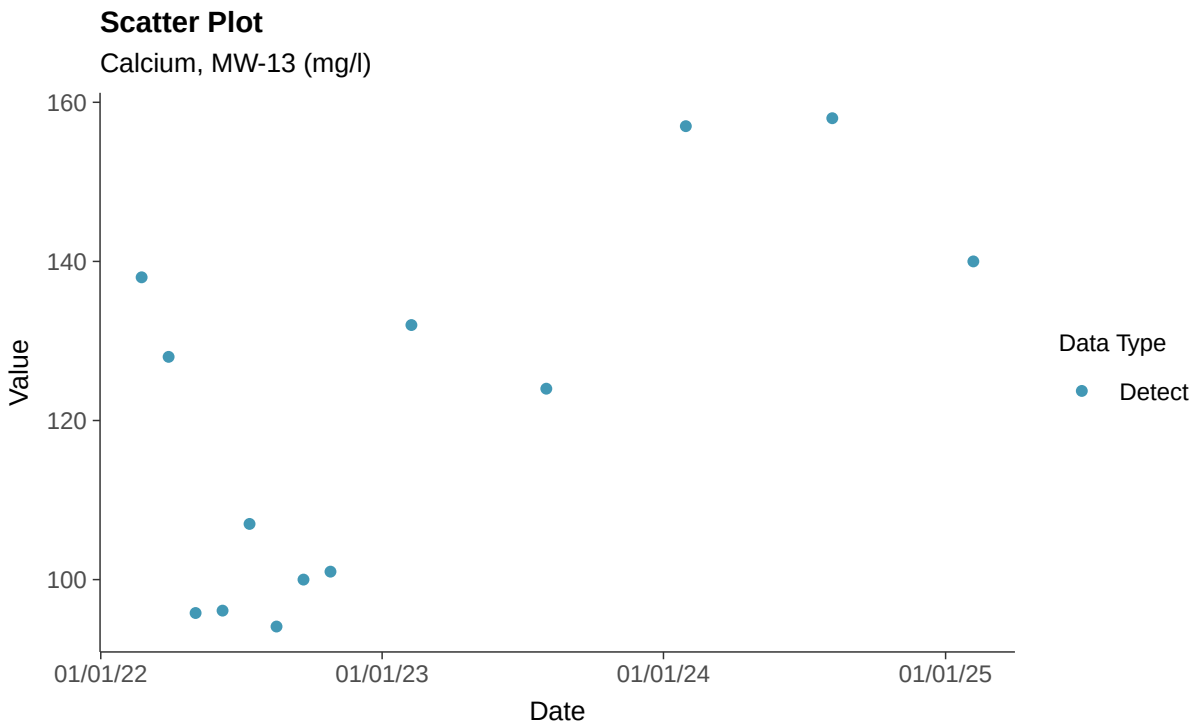


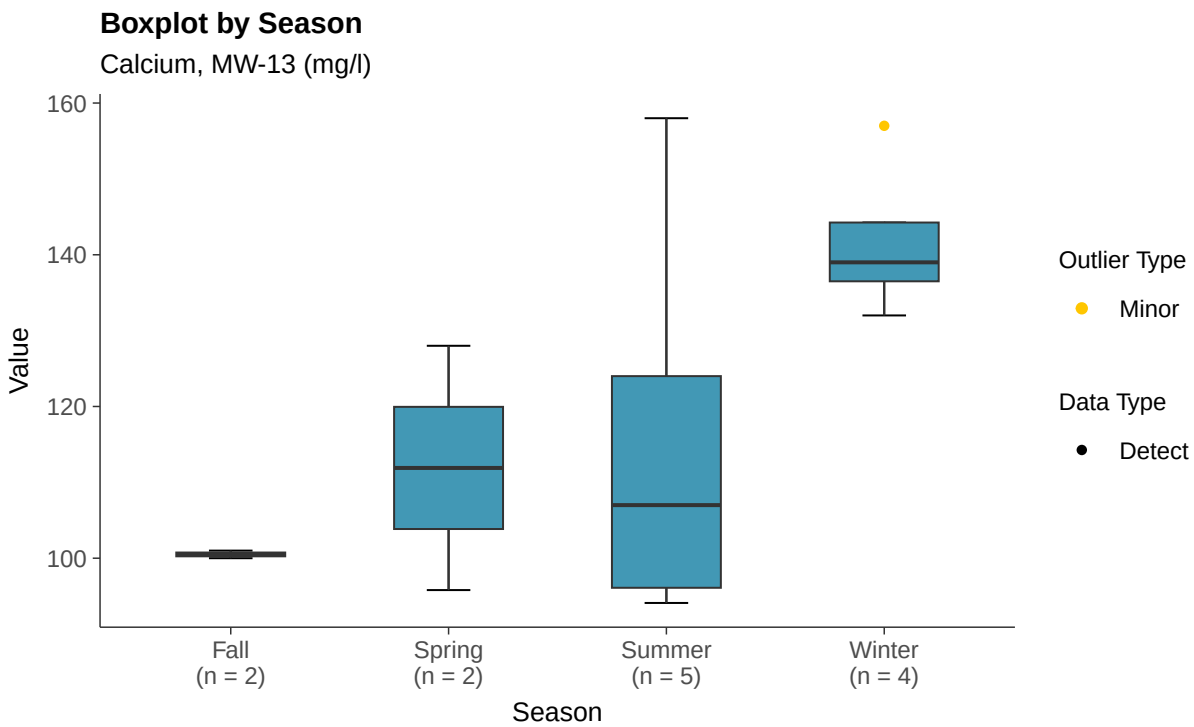
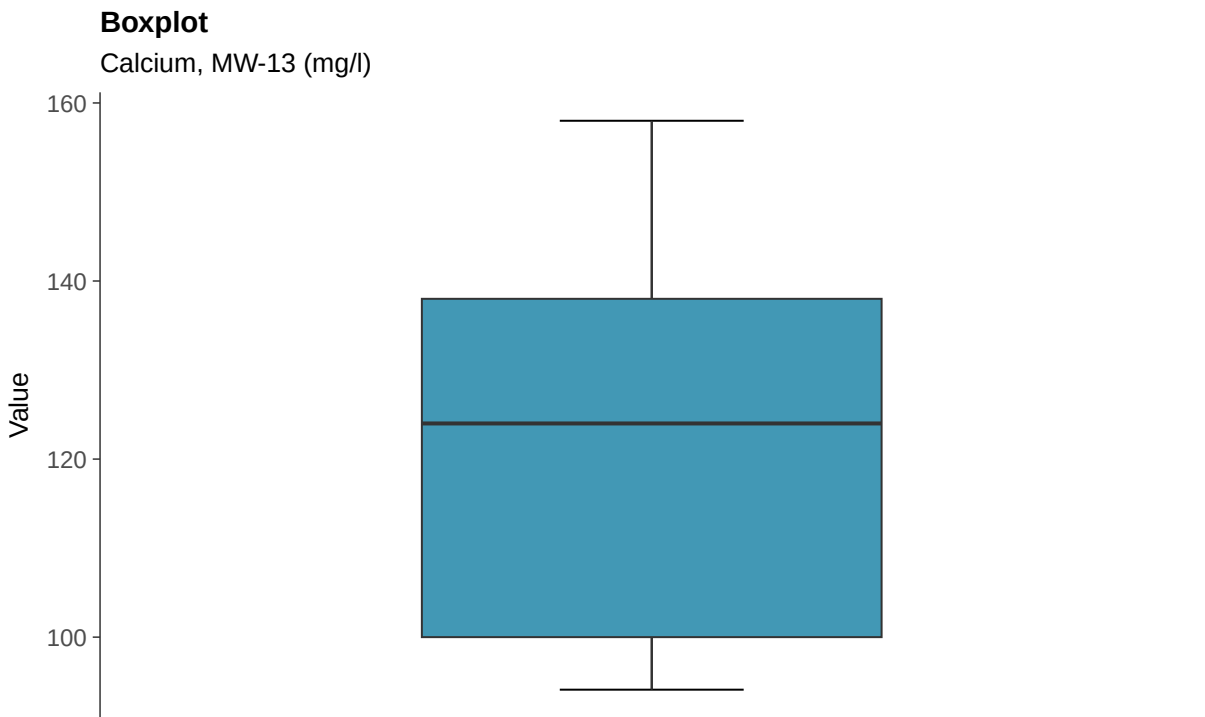


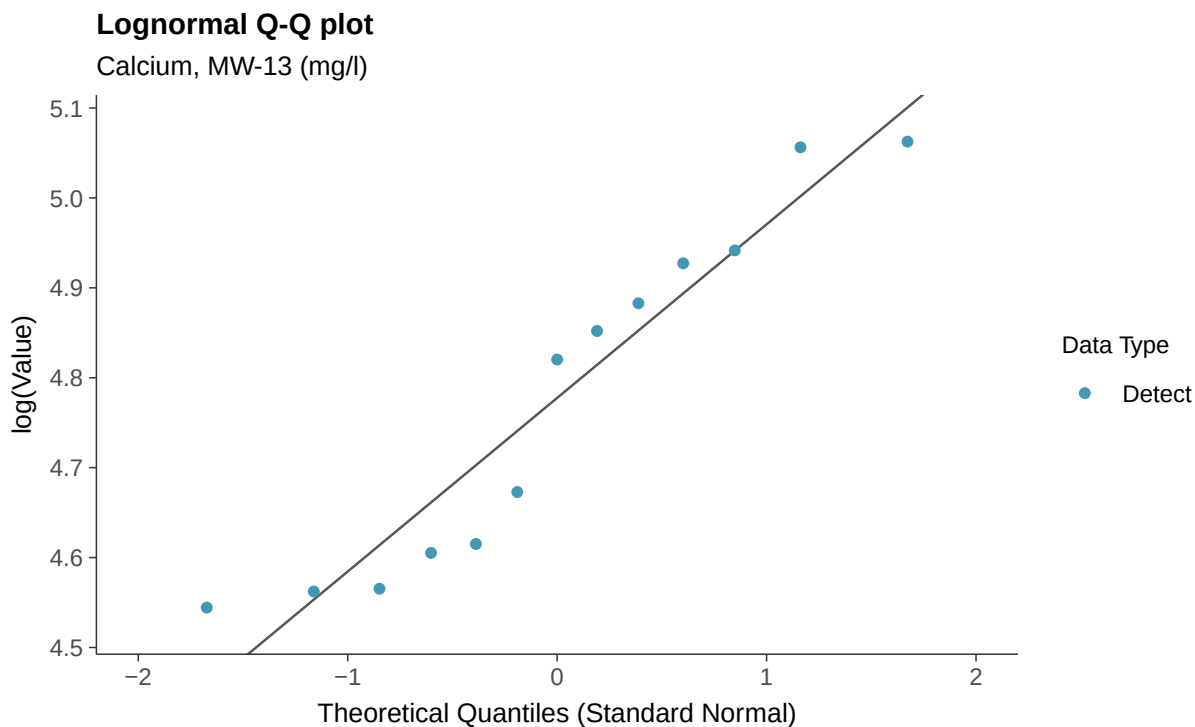
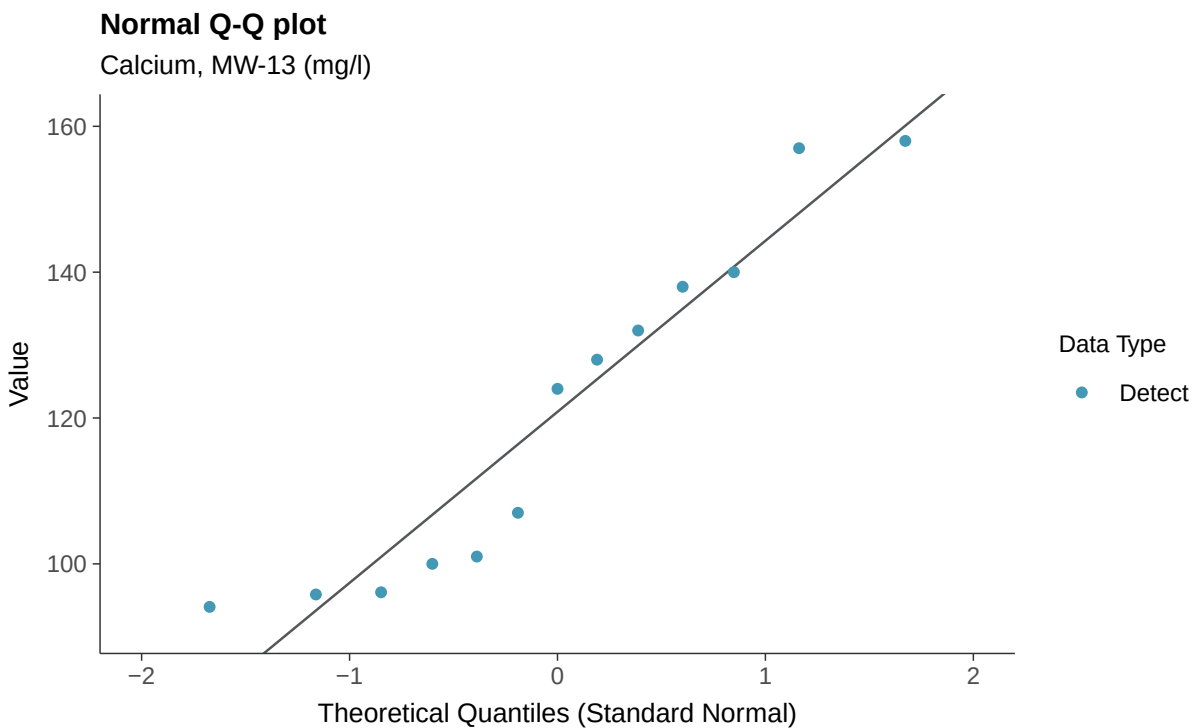


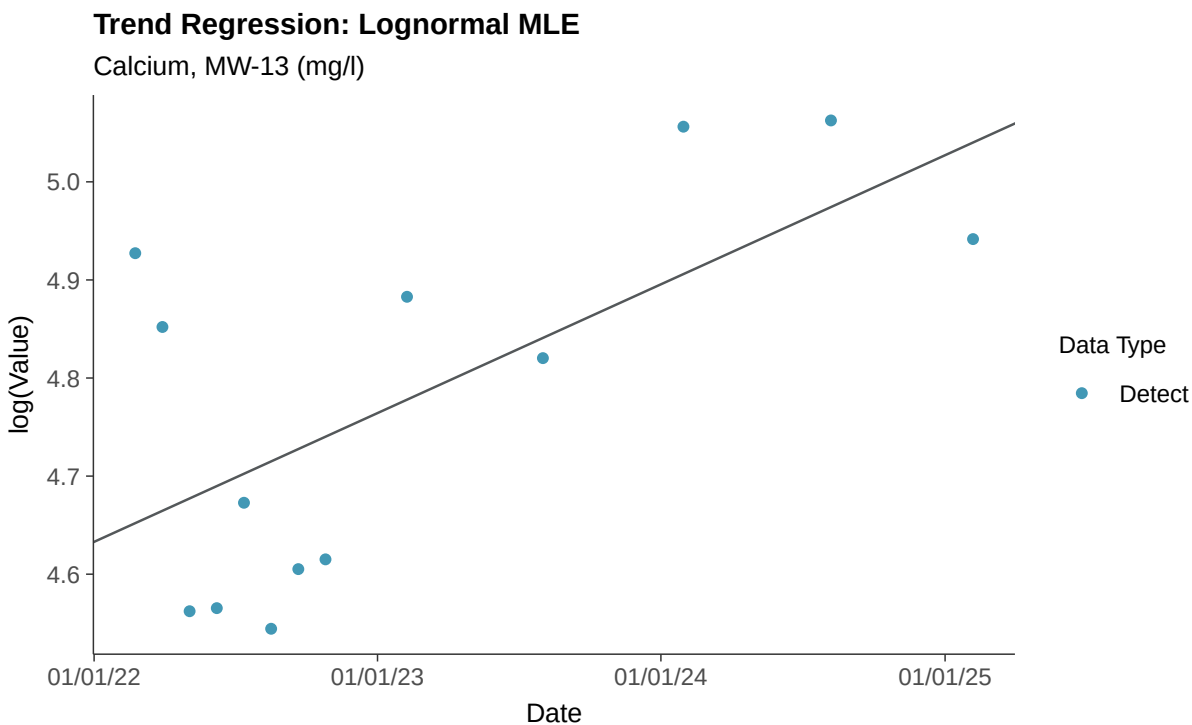
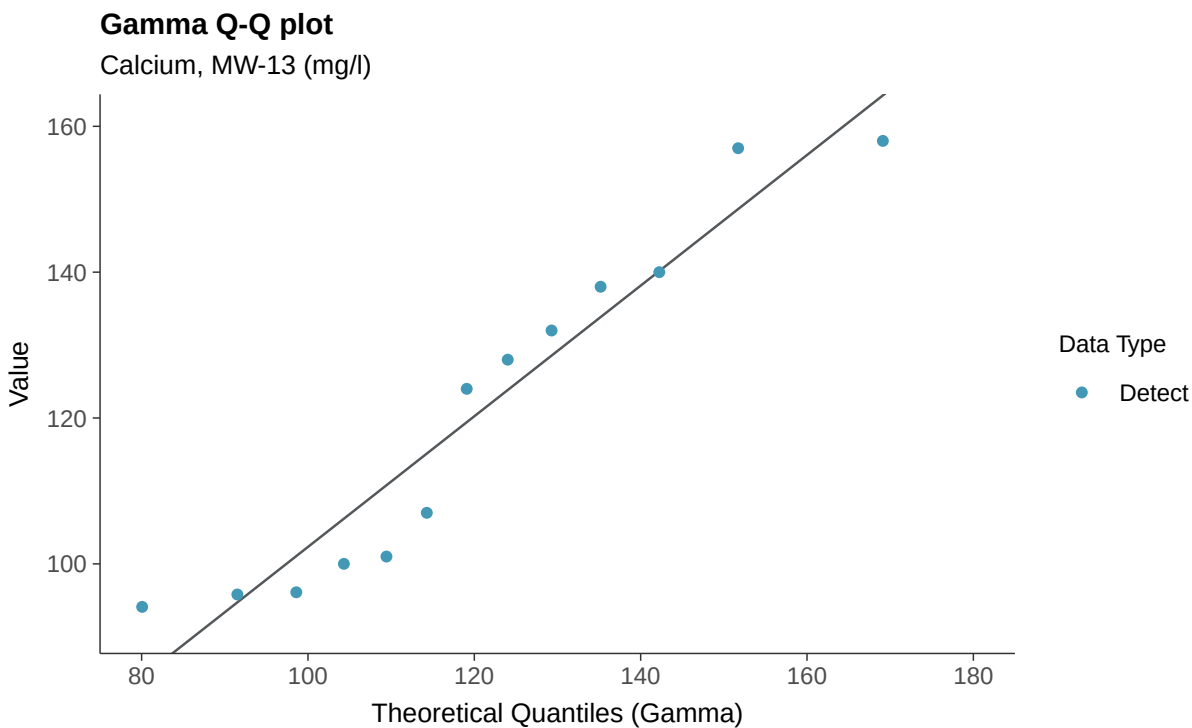
Appendix III: Calcium, MW-13

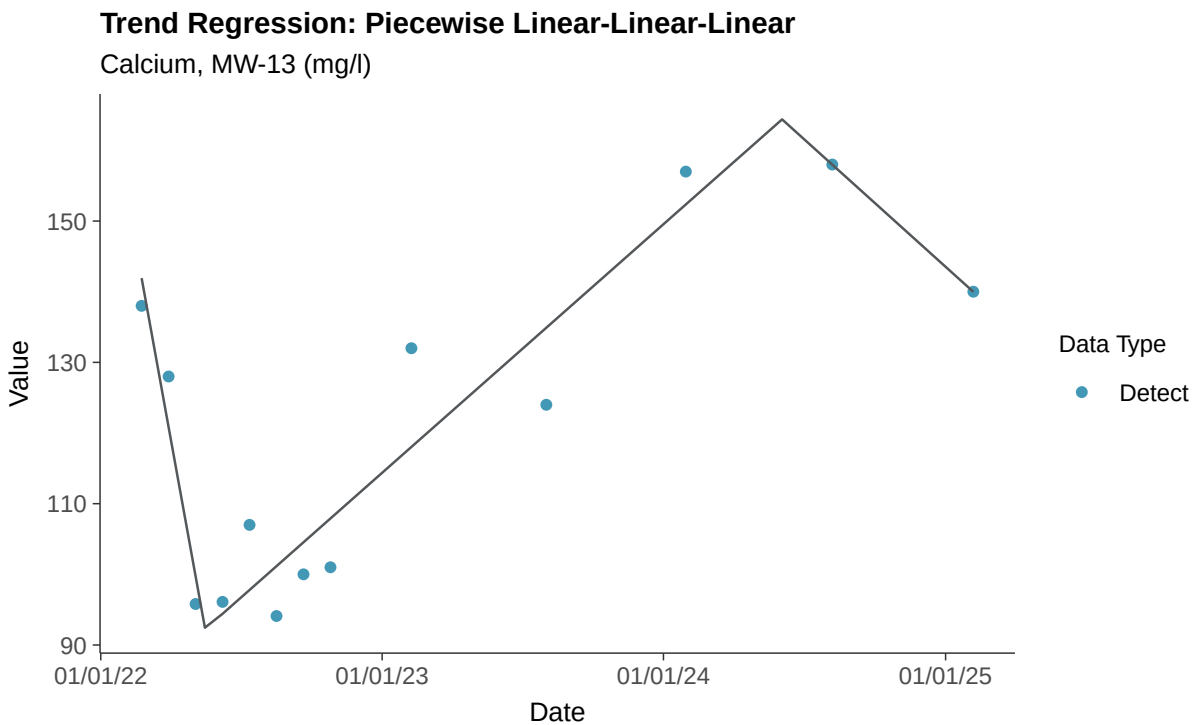
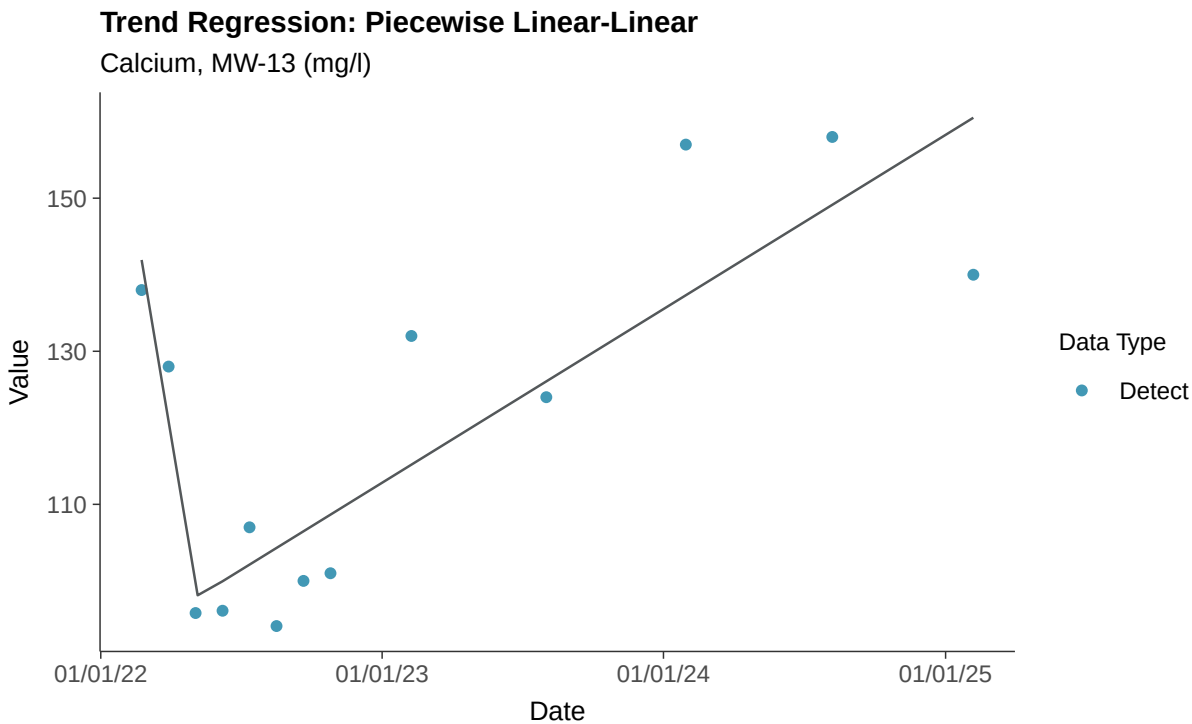
ID: 20_2_107







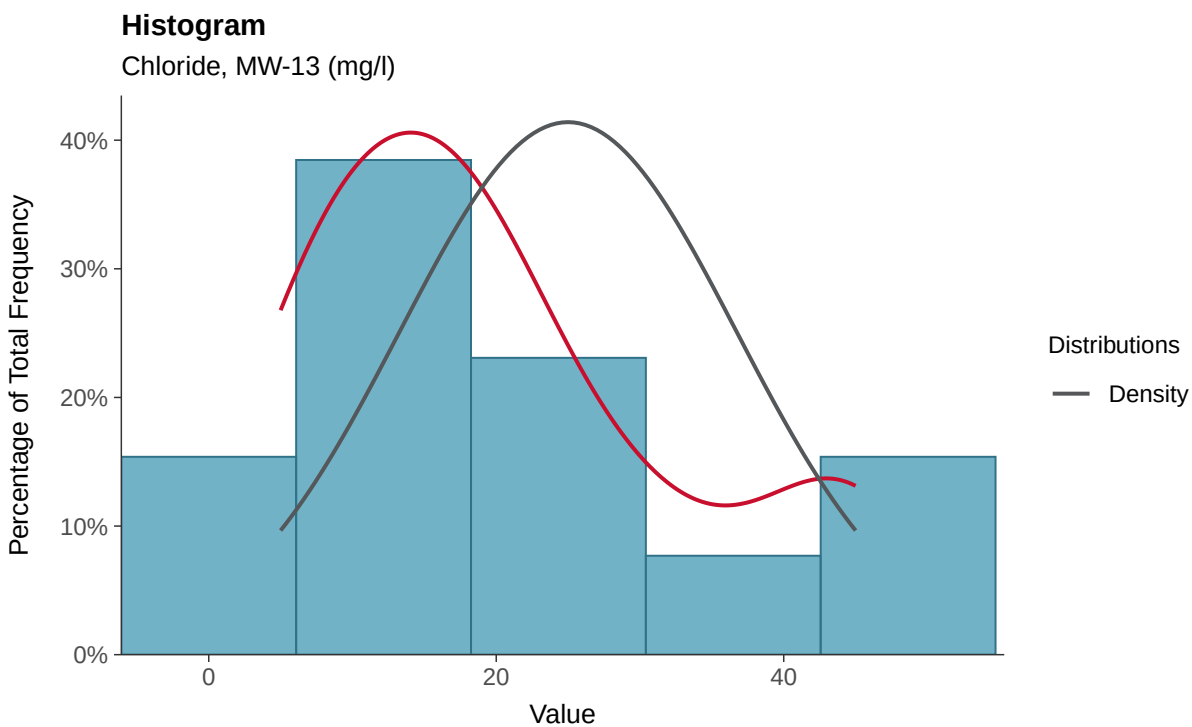
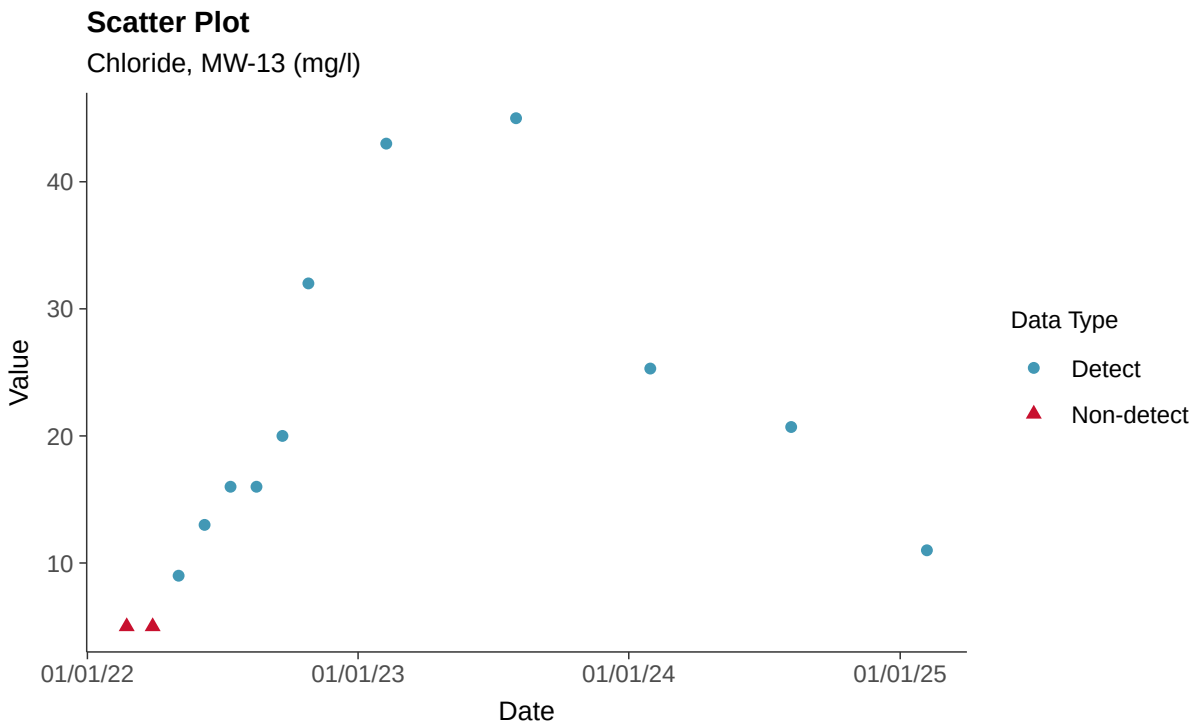


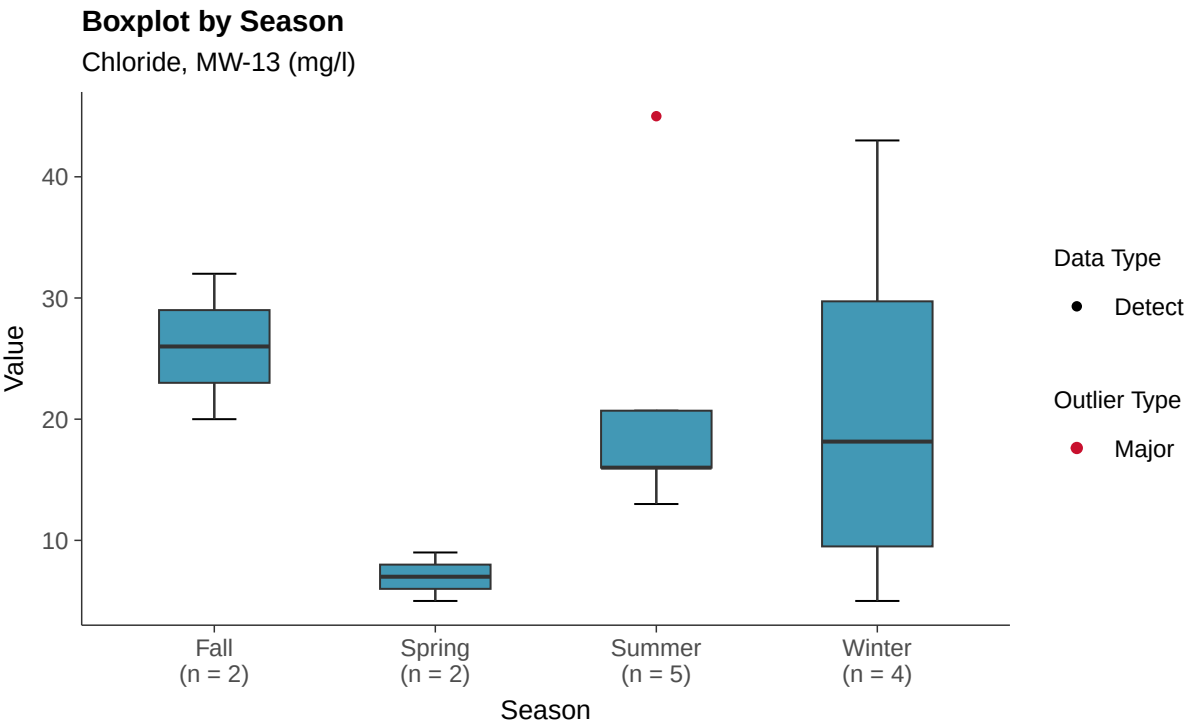
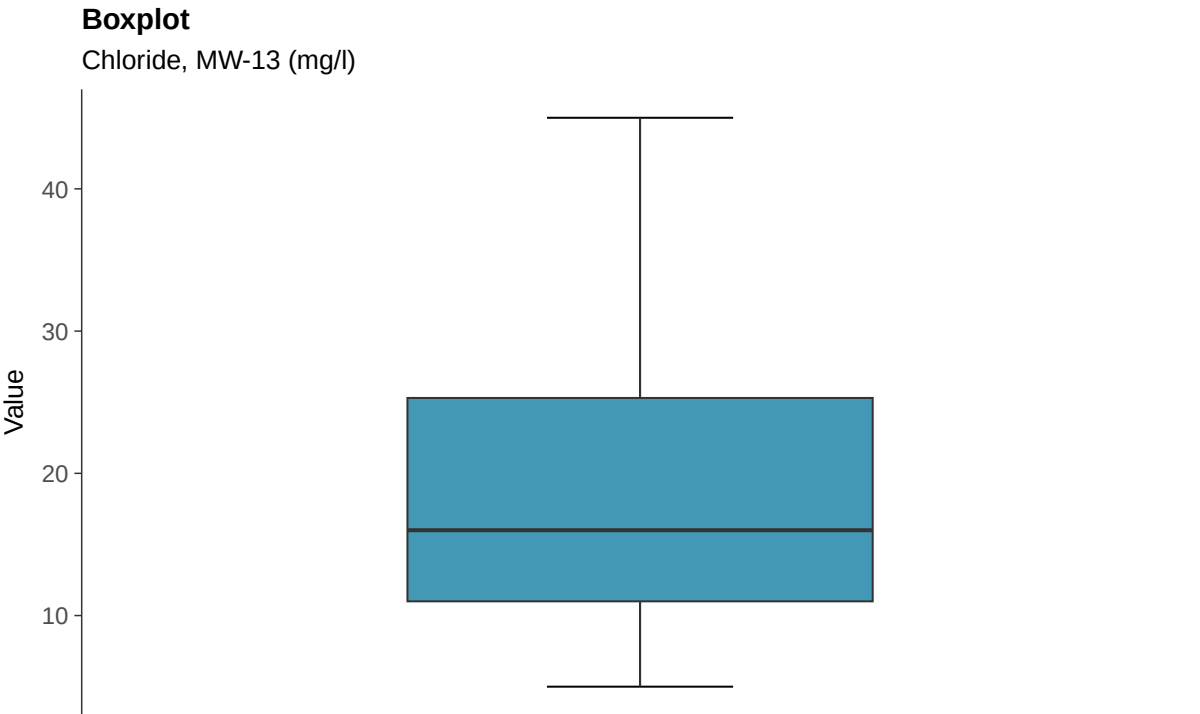


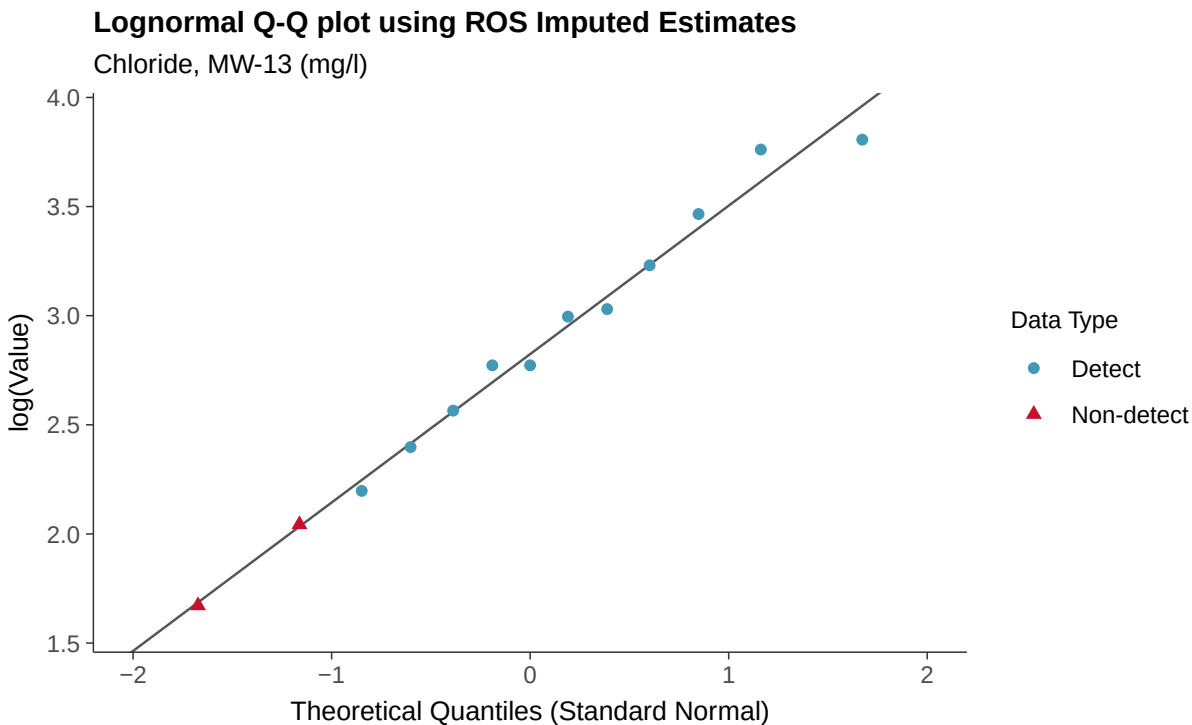
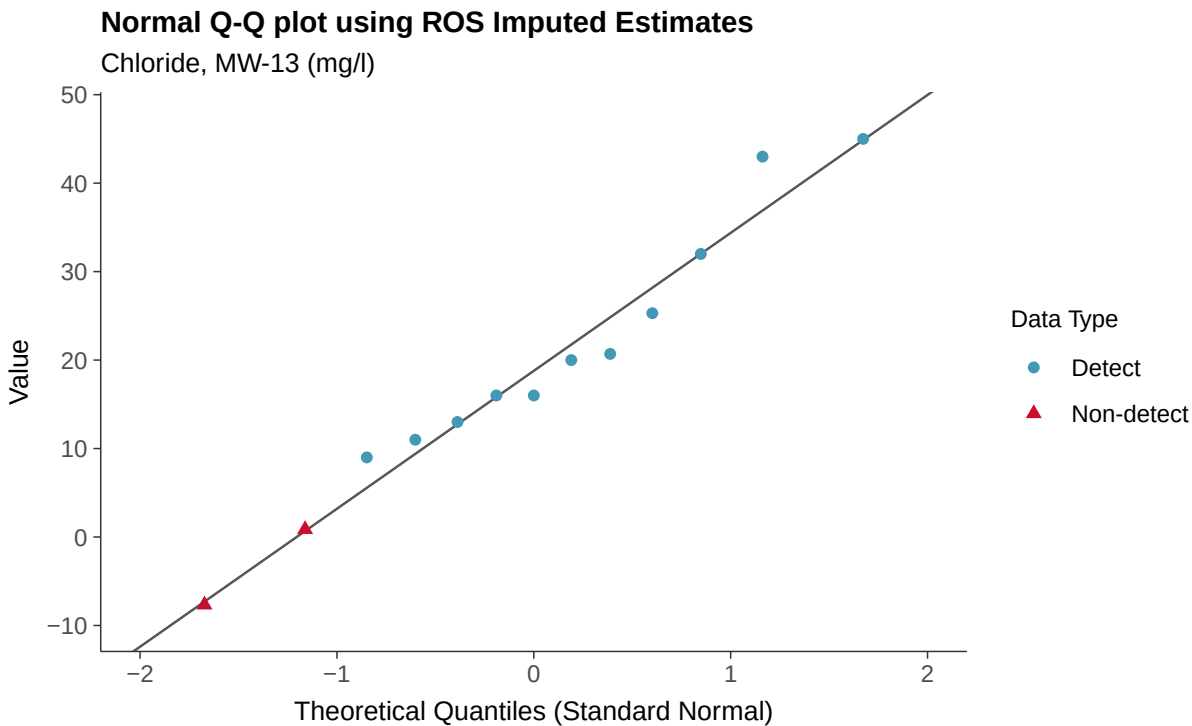


Appendix III: Chloride, MW-13

ID: 20_2_108



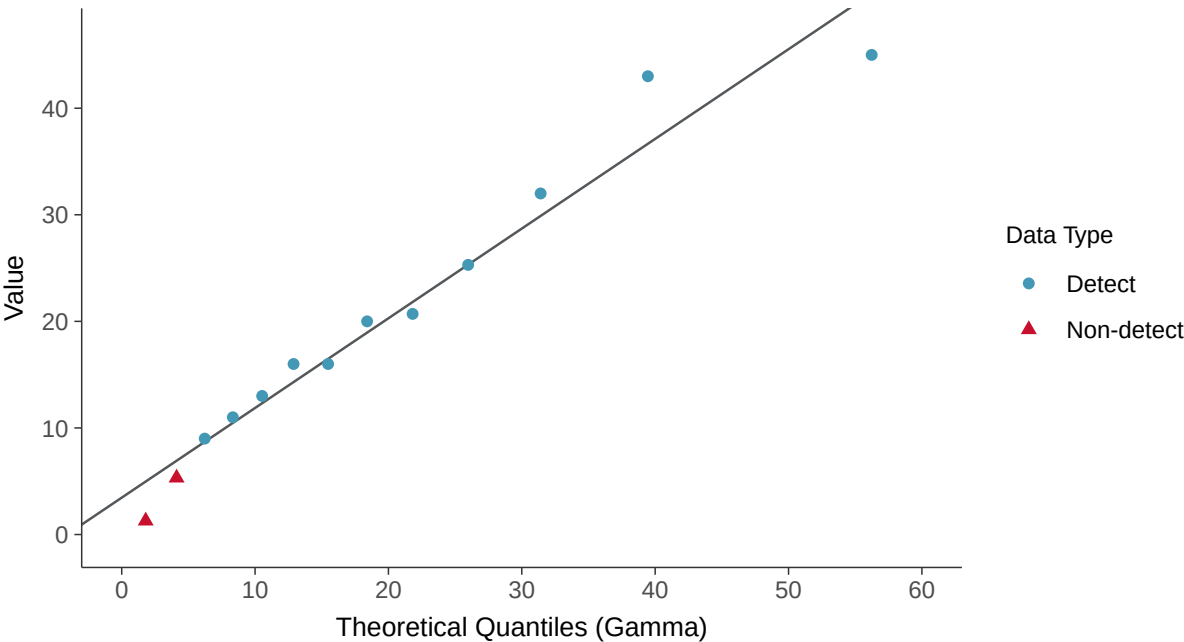






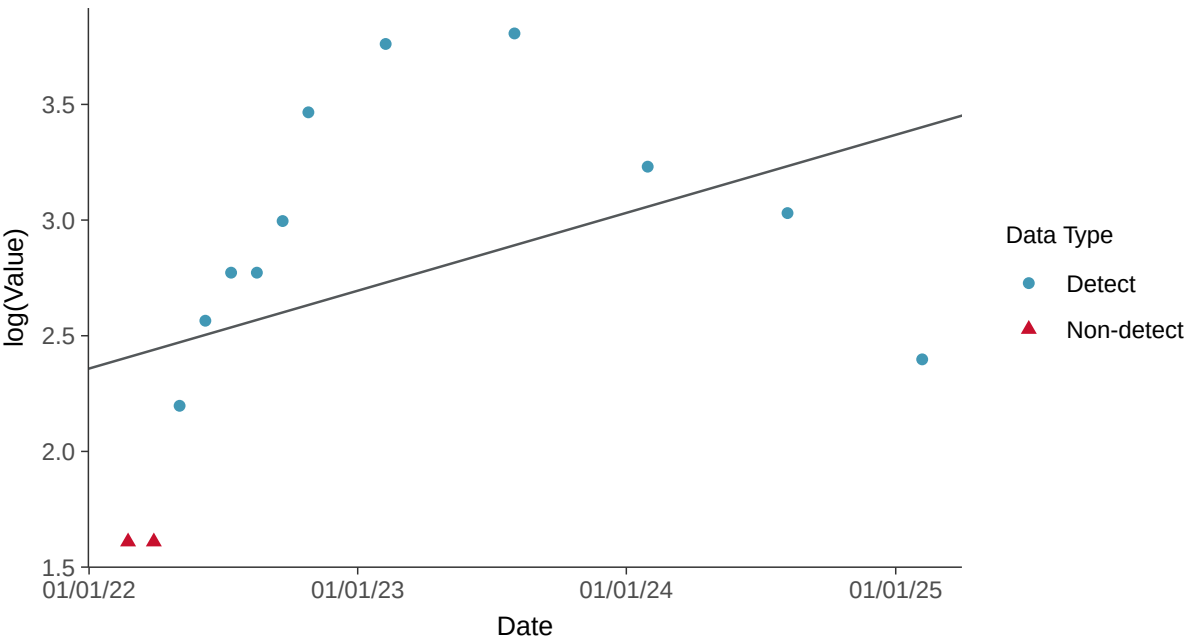
Gamma Q-Q plot using ROS Imputed Estimates

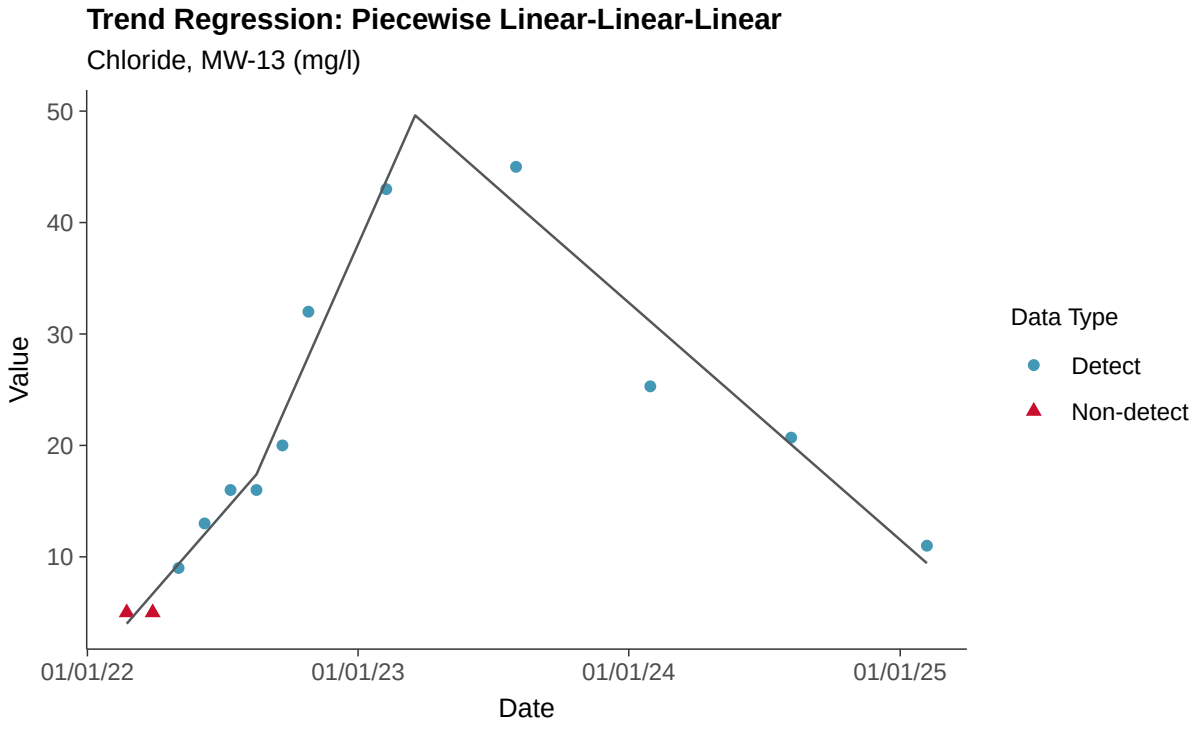
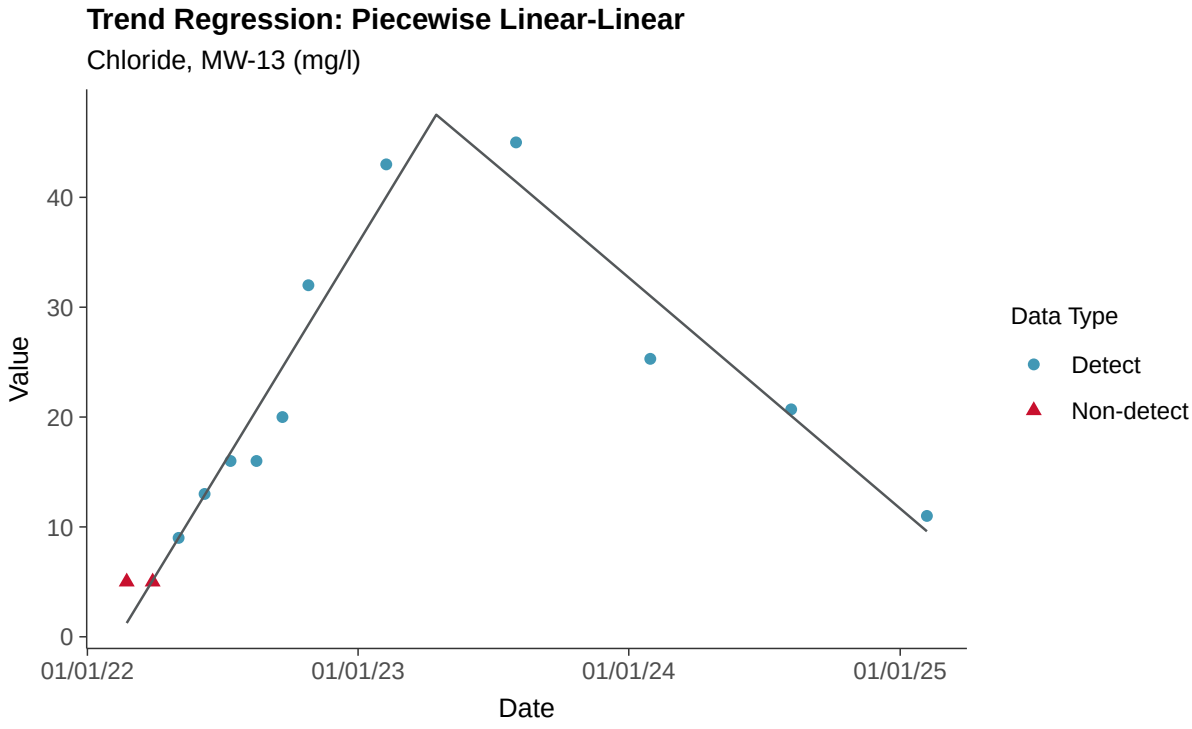
Chloride, MW-13 (mg/l)

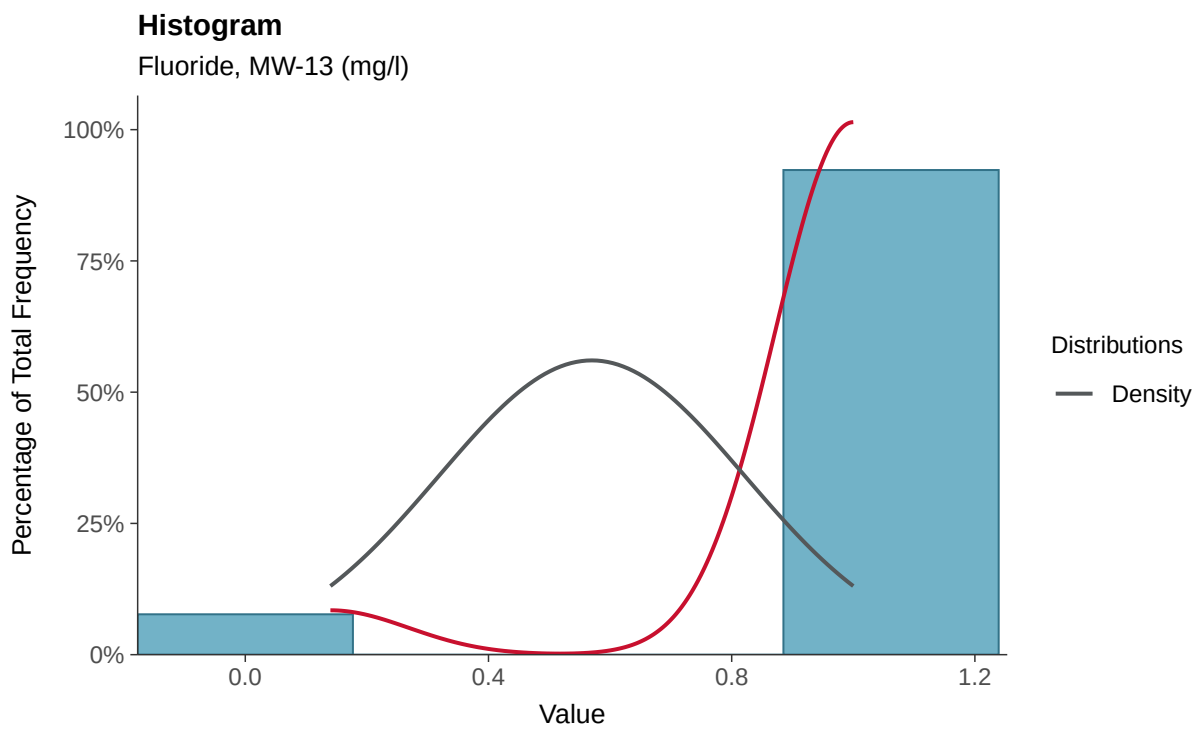


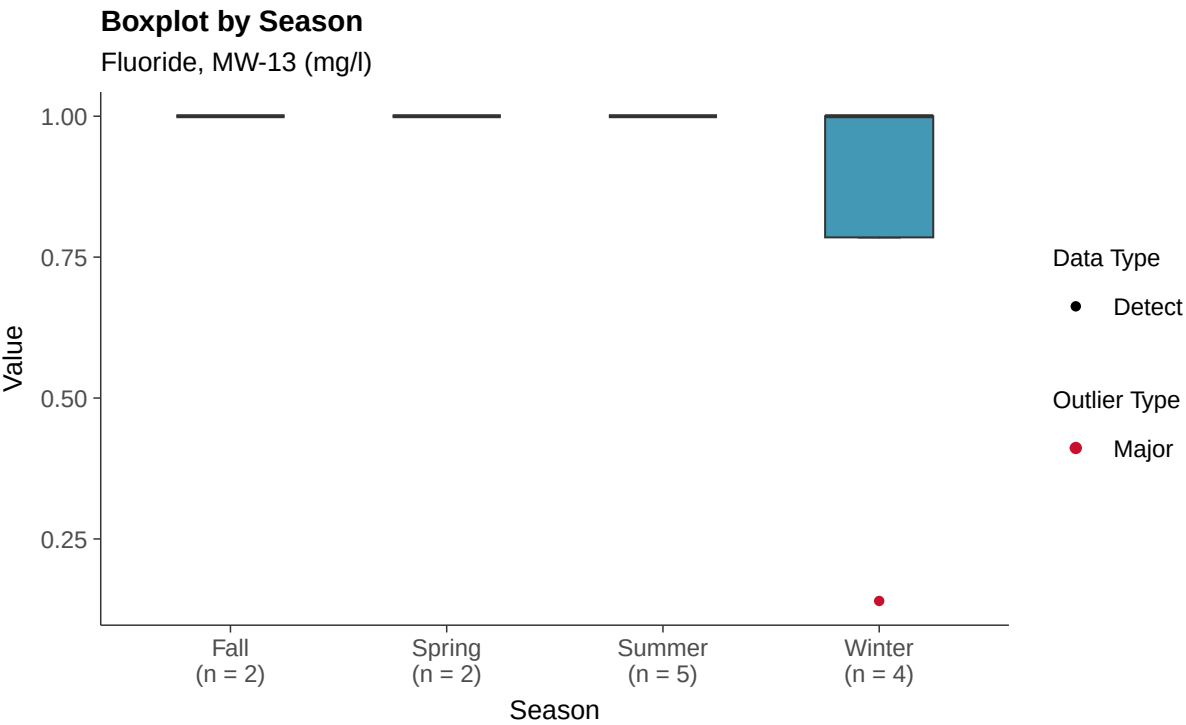
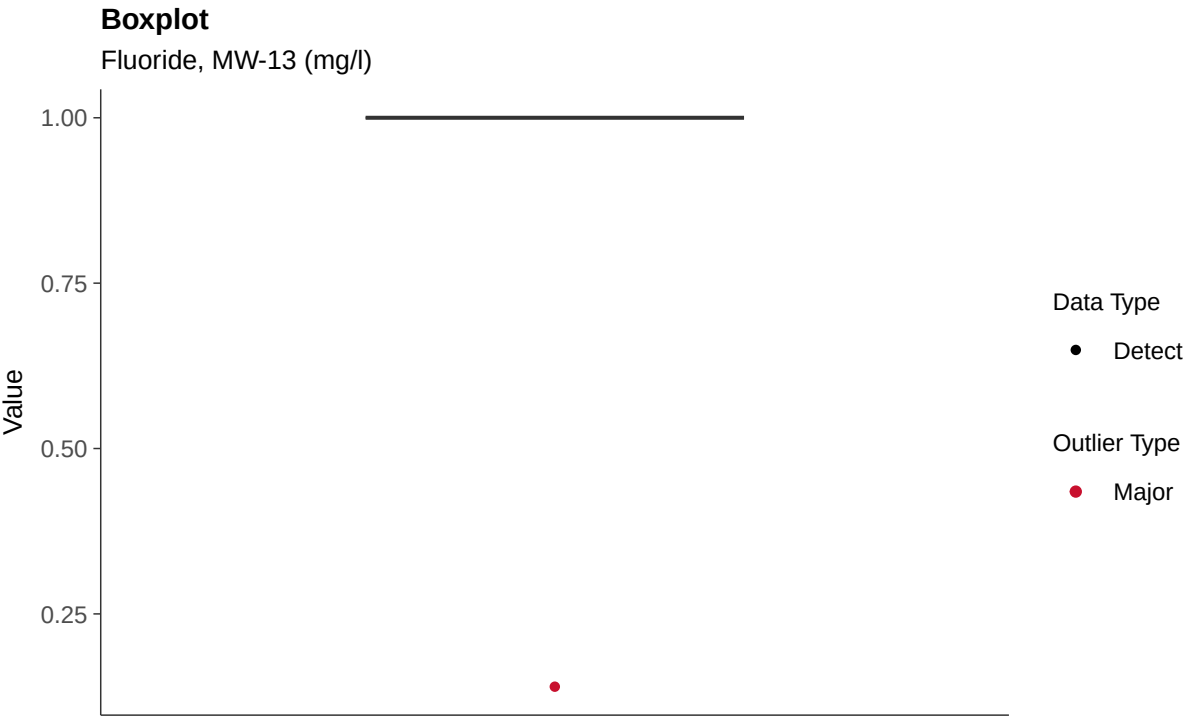
Trend Regression: Lognormal MLE

Chloride, MW-13 (mg/l)





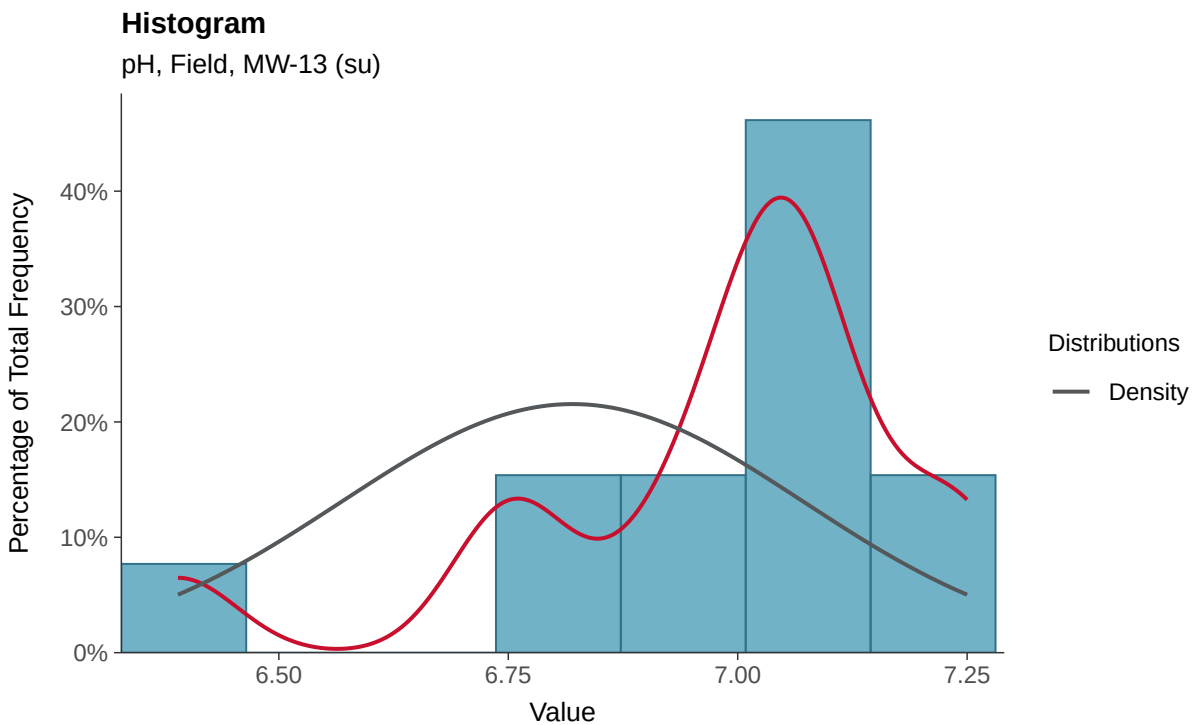
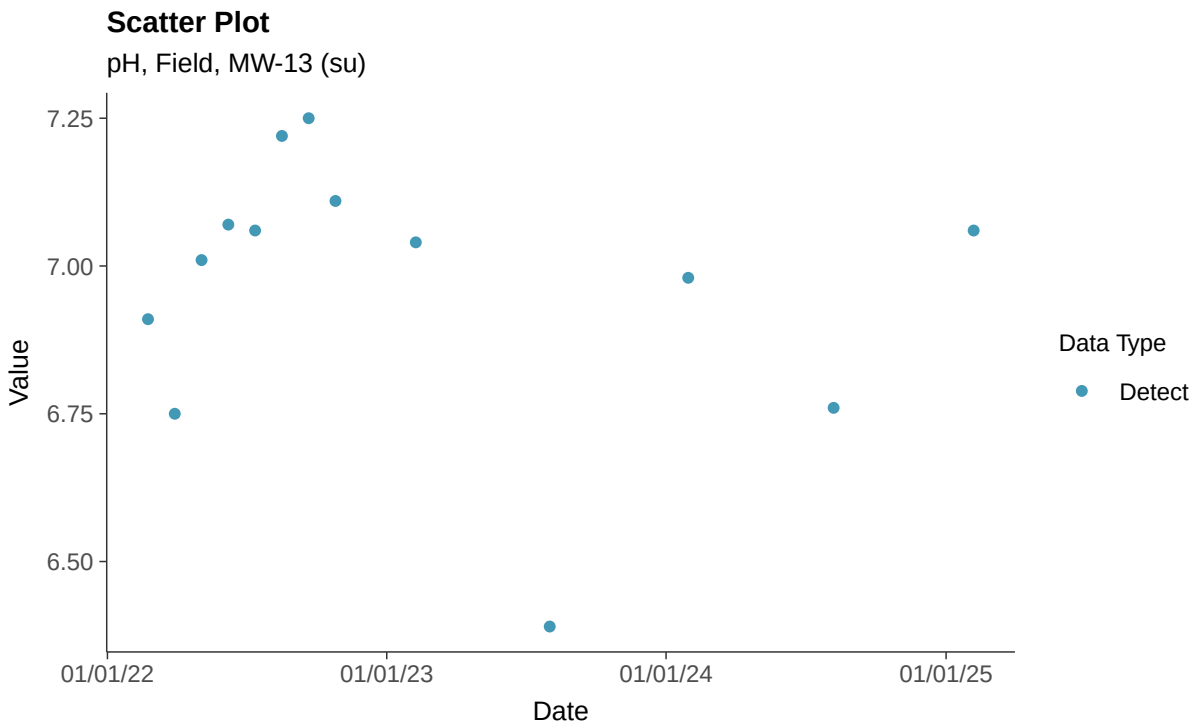


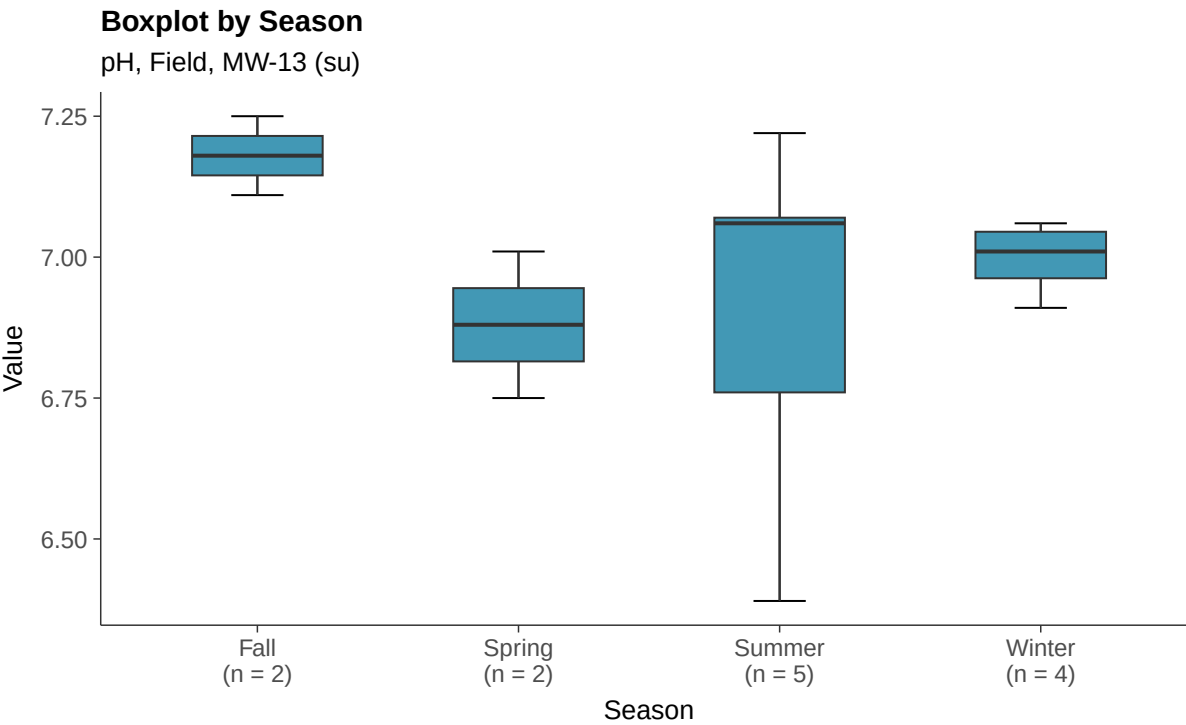
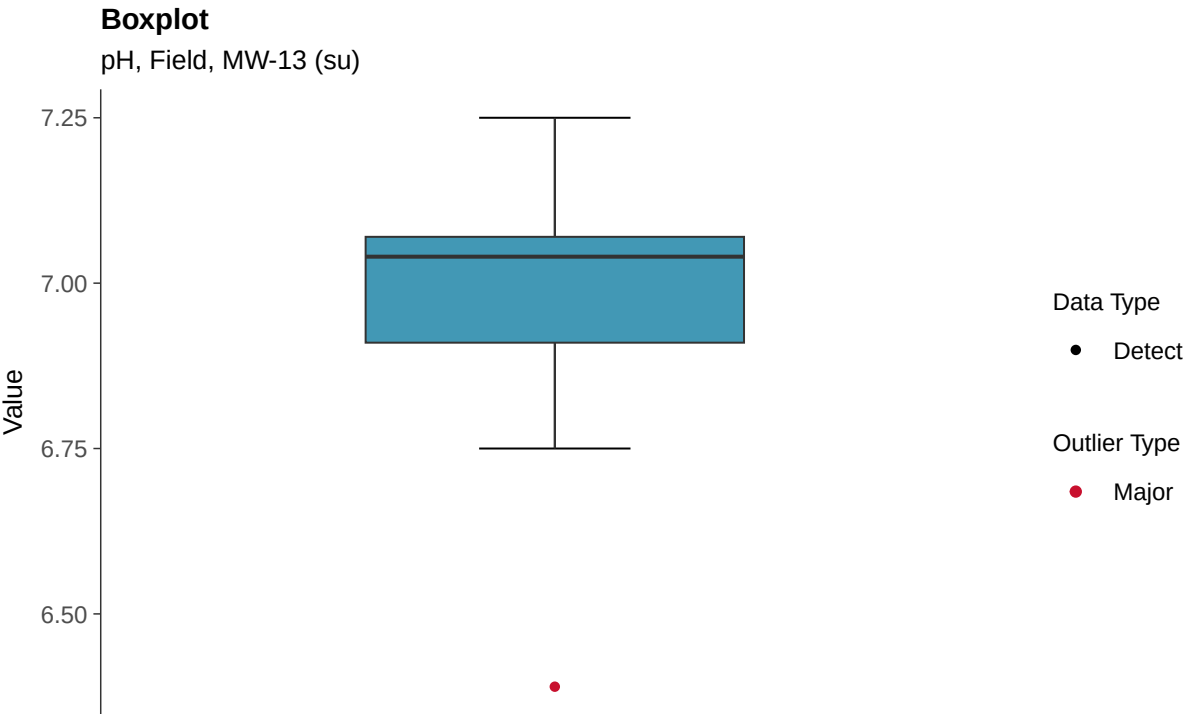


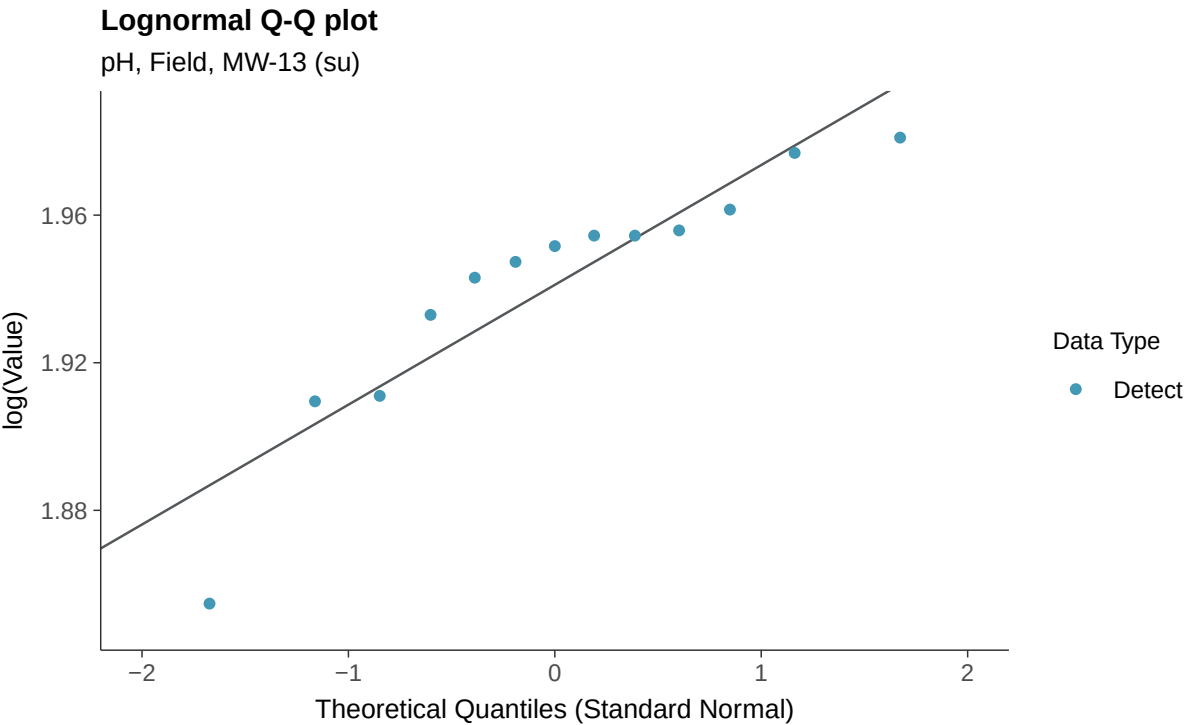
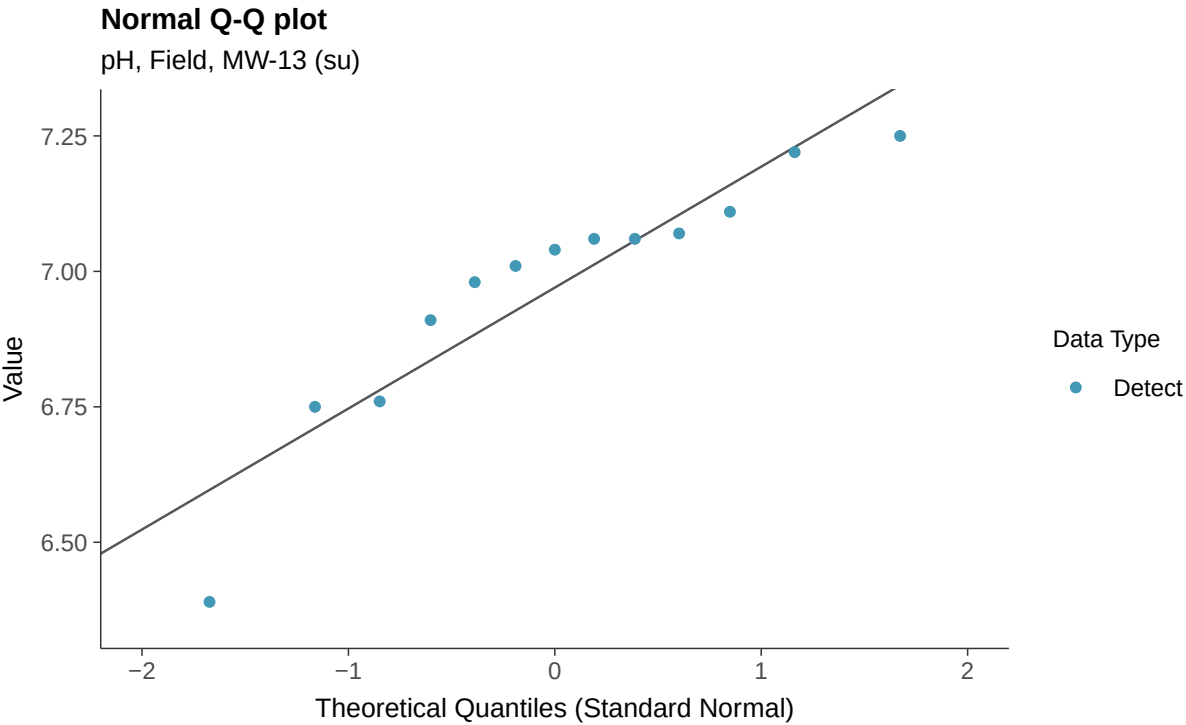


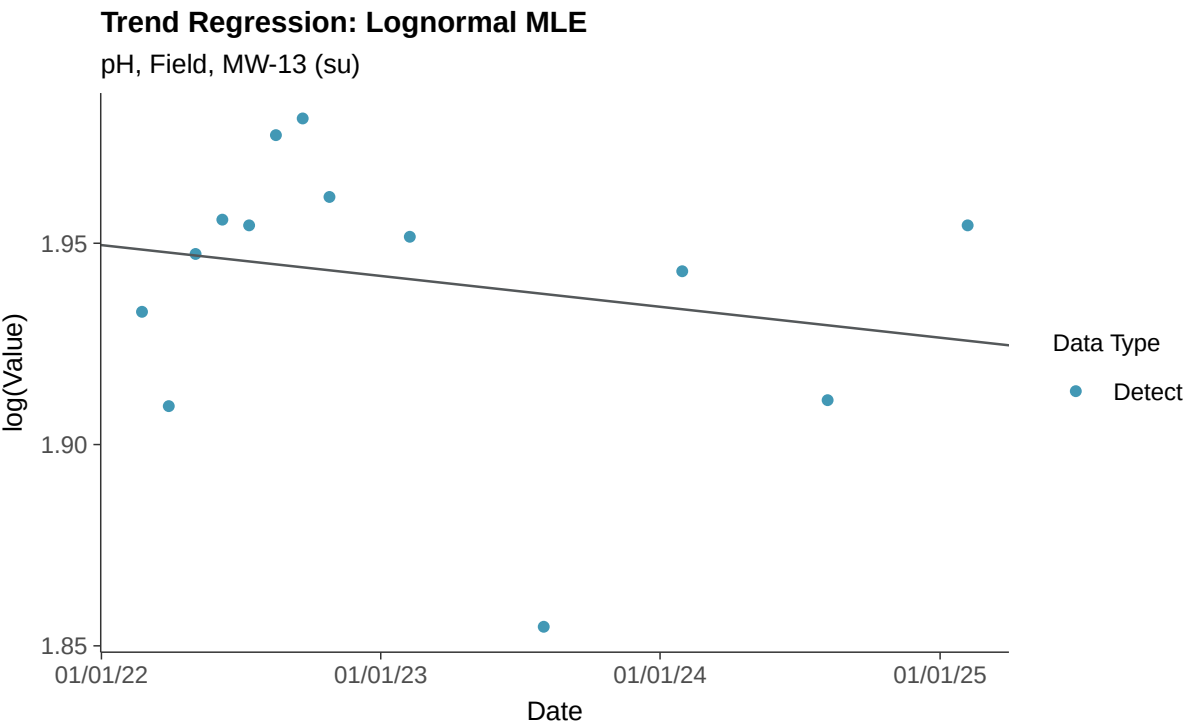
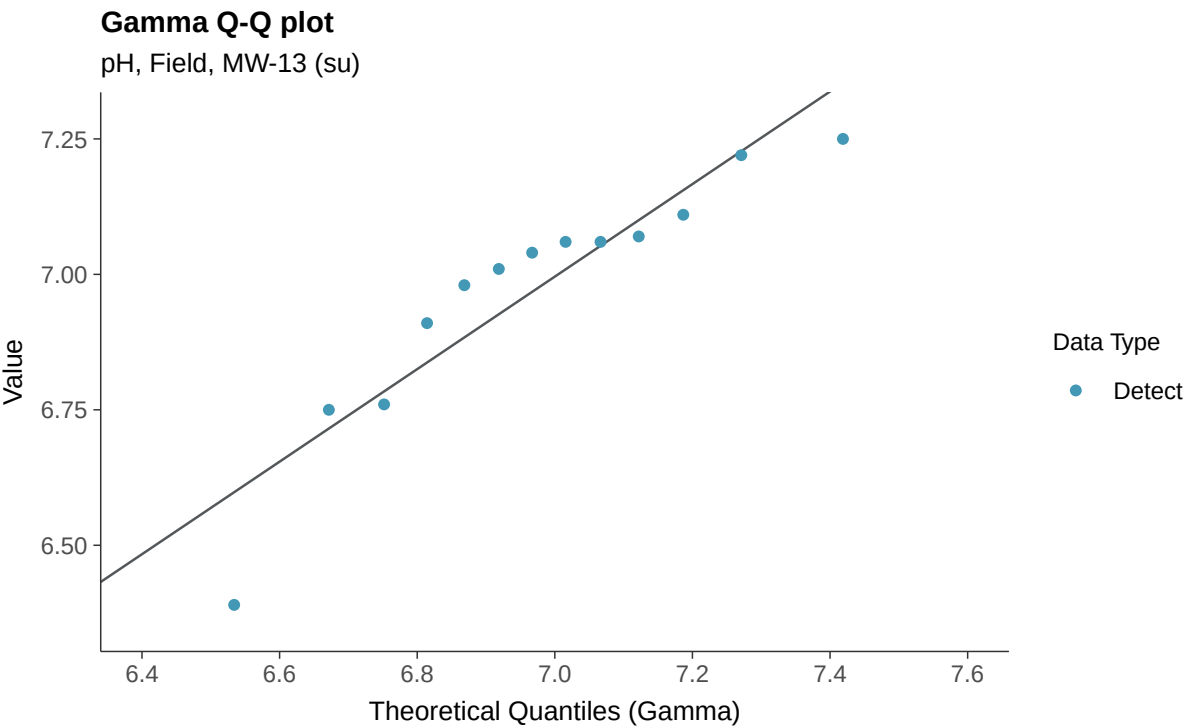
Appendix III: pH, Field, MW-13

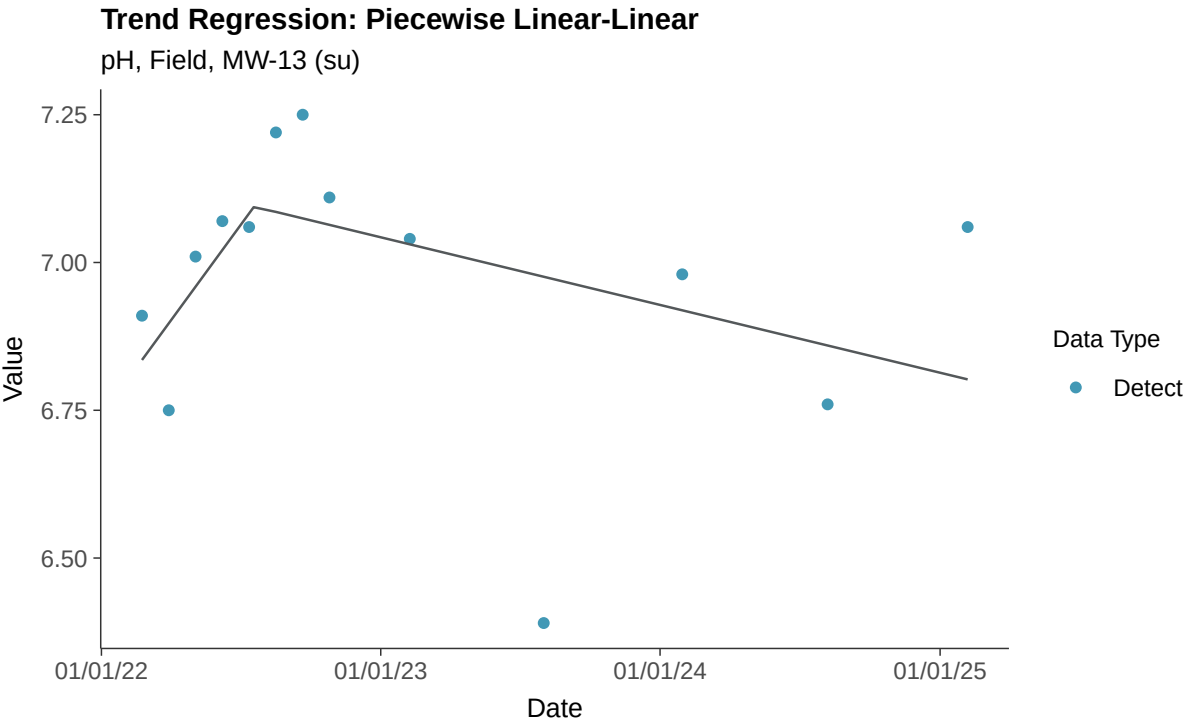
ID: 20_2_120







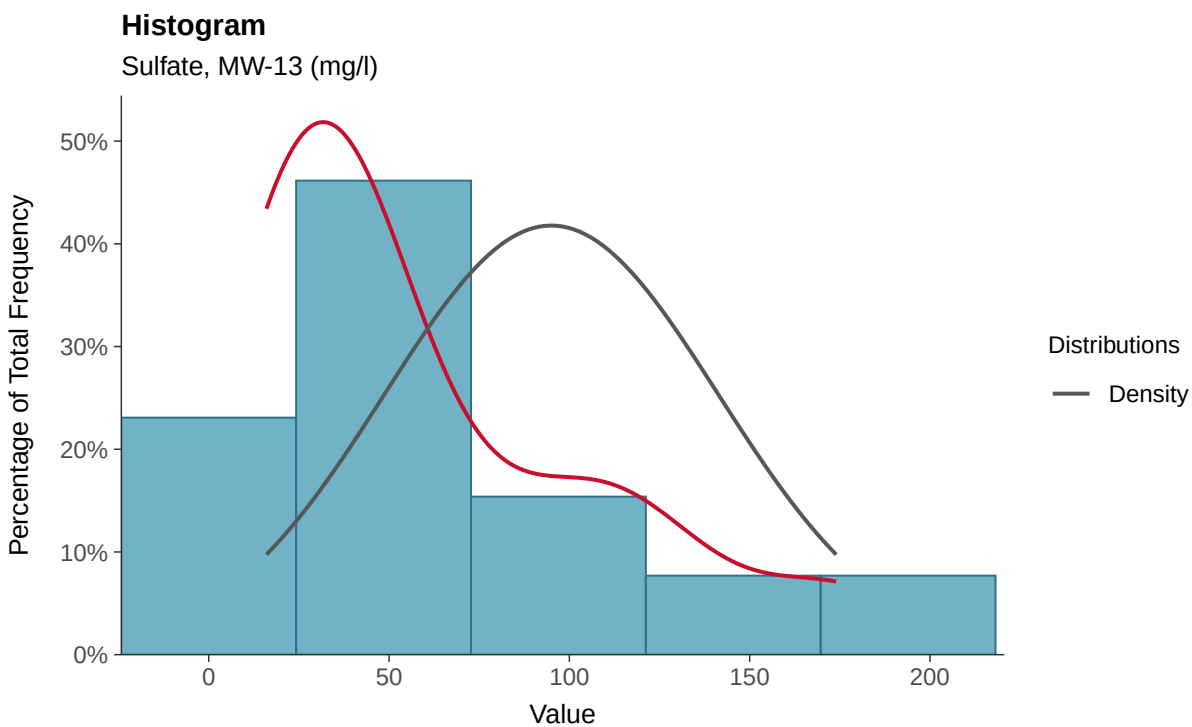
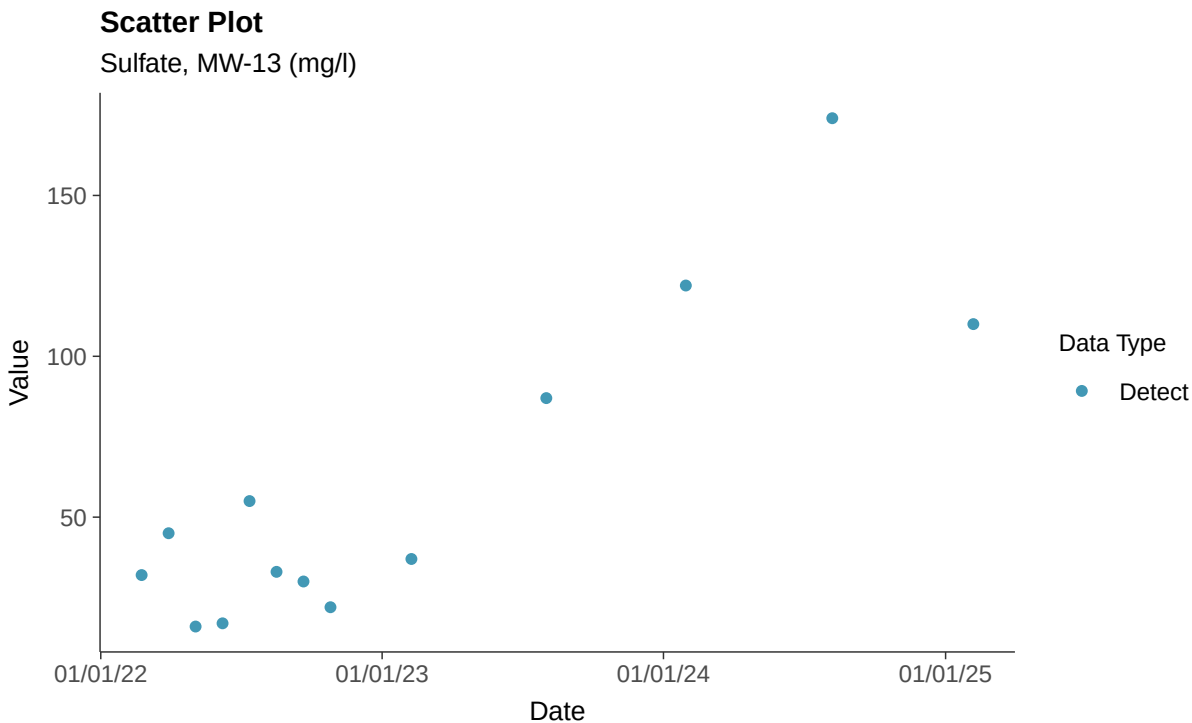


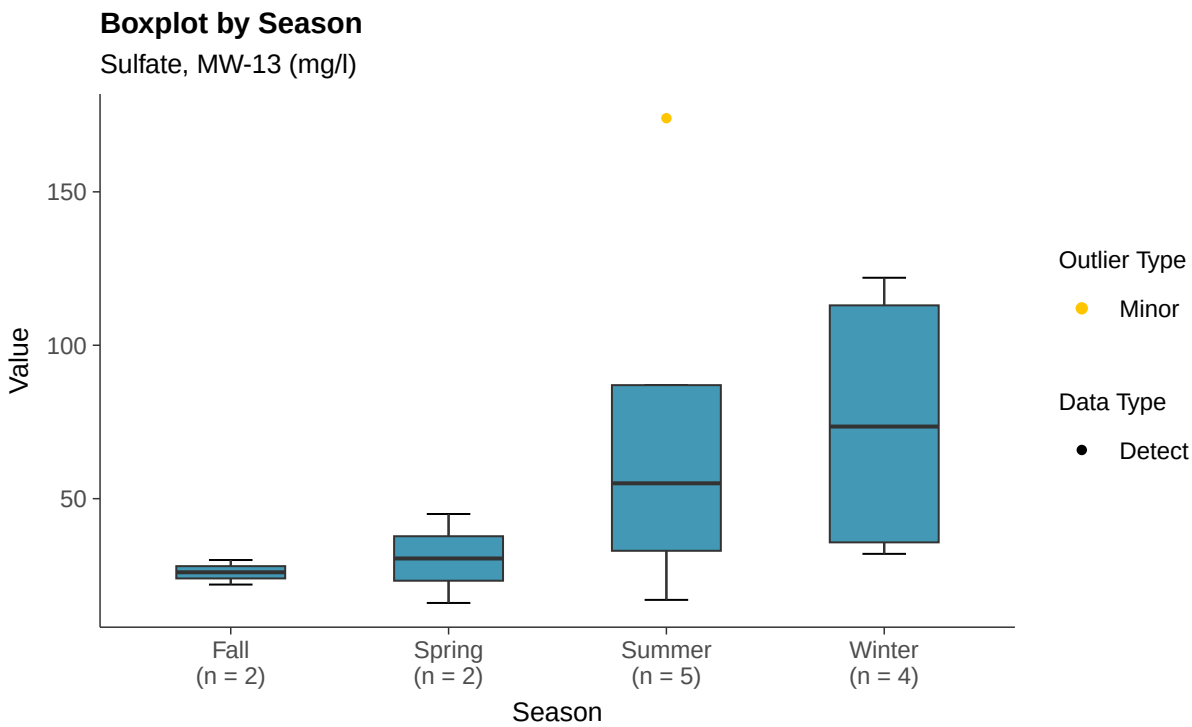
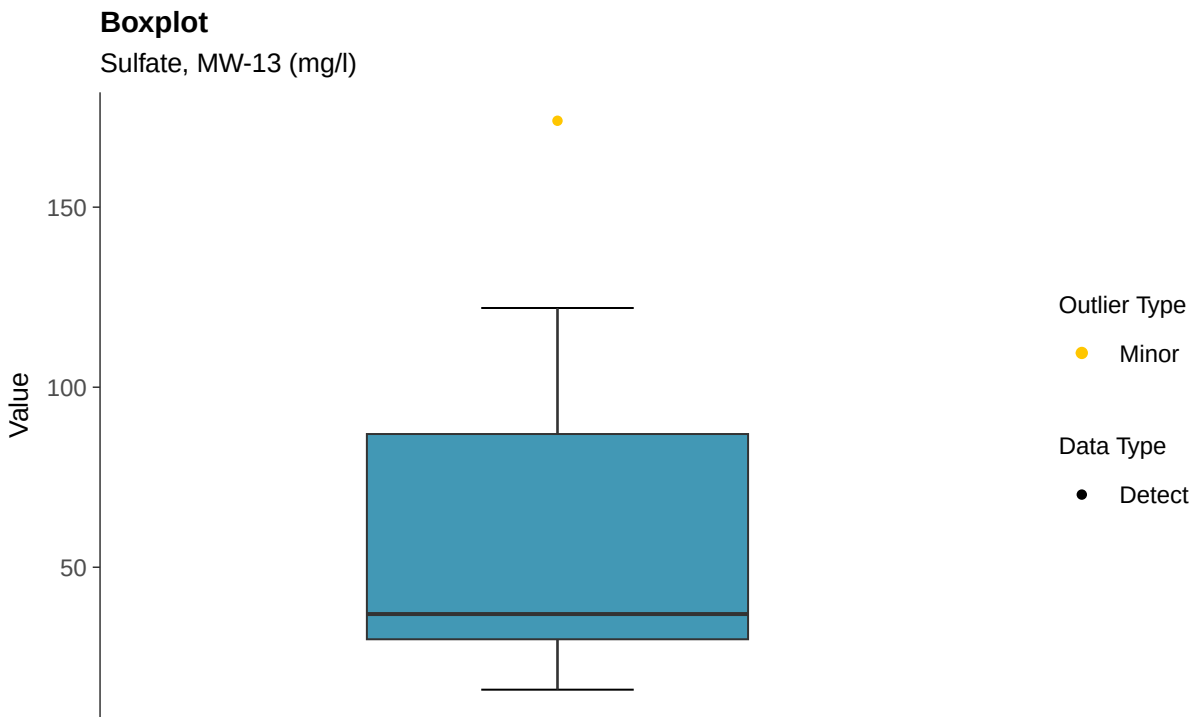




Appendix III: Sulfate, MW-13

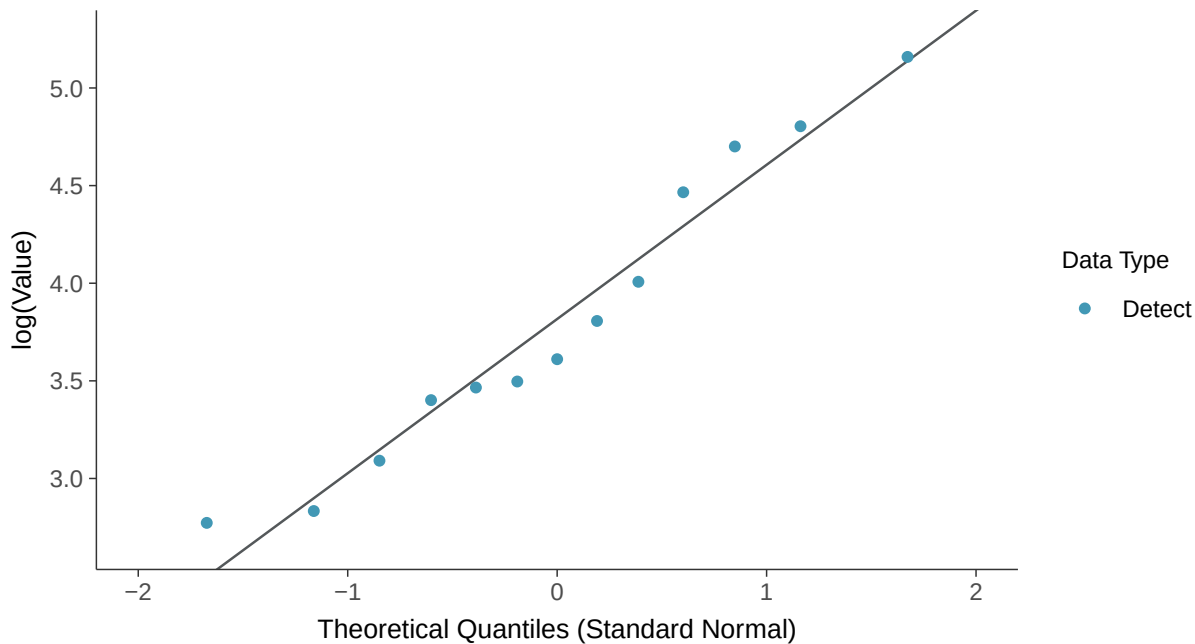
ID: 20_2_124



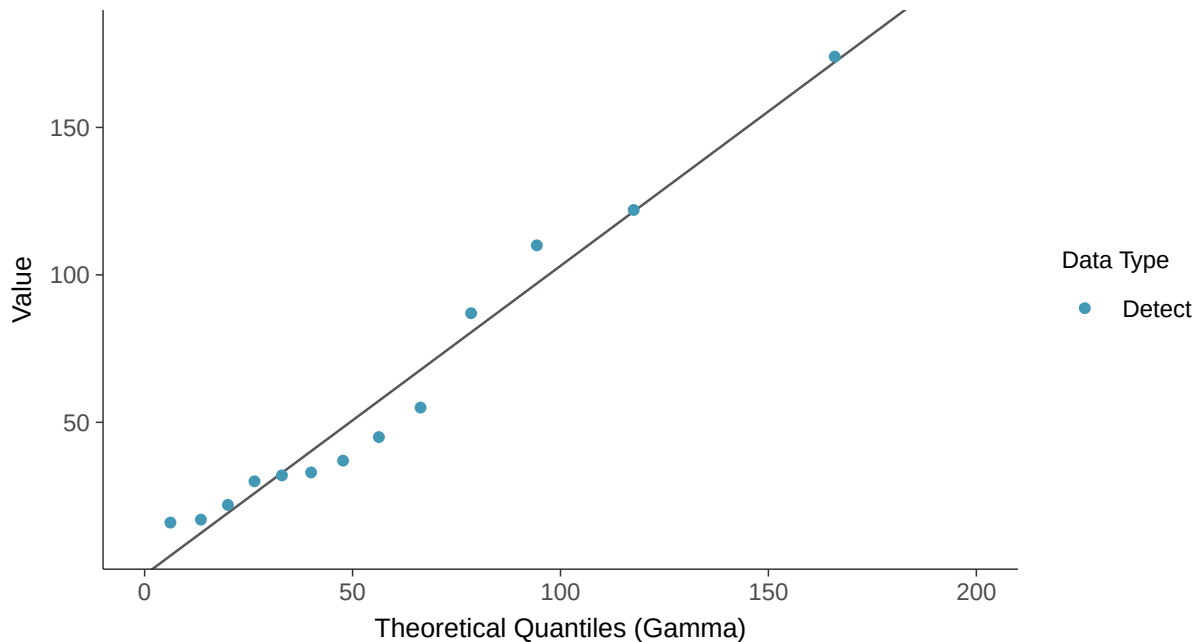


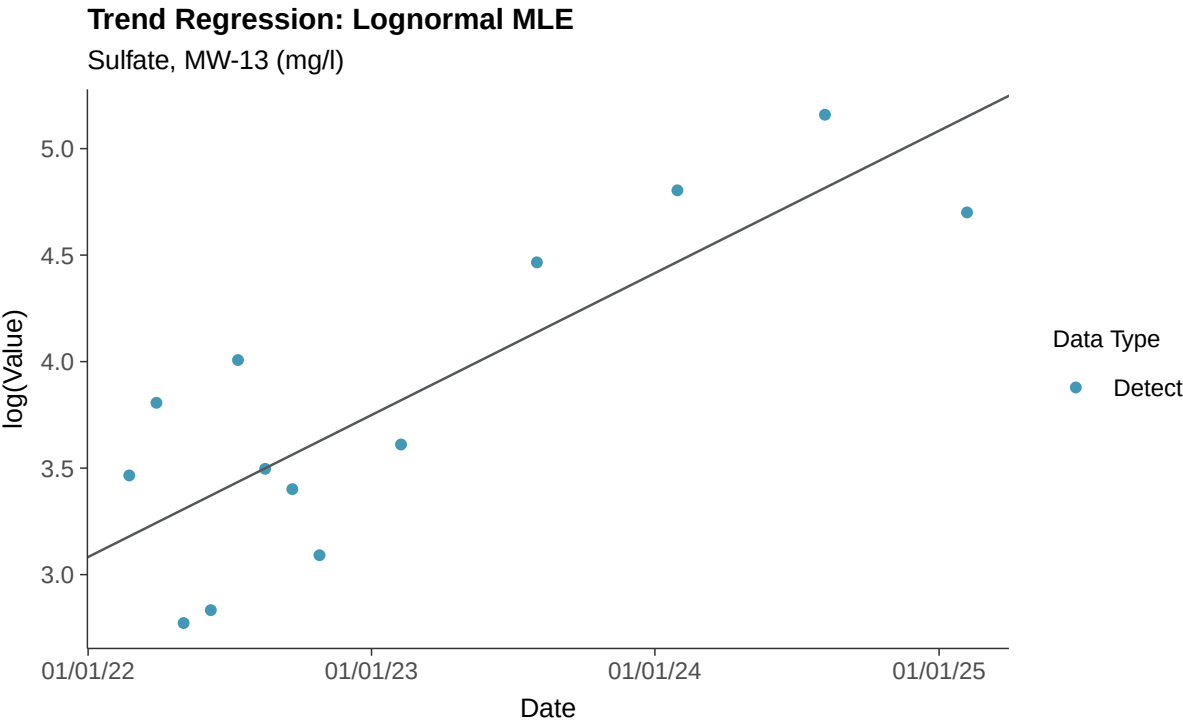


Lognormal Q-Q plot
Sulfate, MW-13 (mg/l)



Gamma Q-Q plot
Sulfate, MW-13 (mg/l)

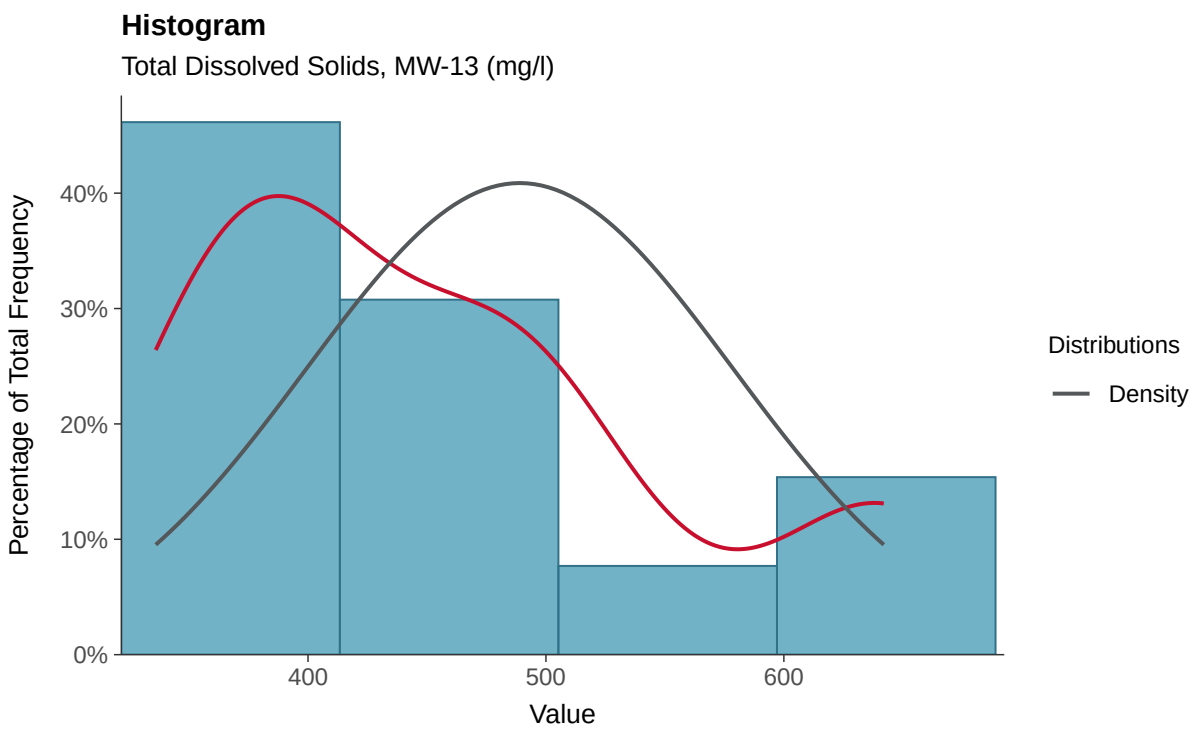
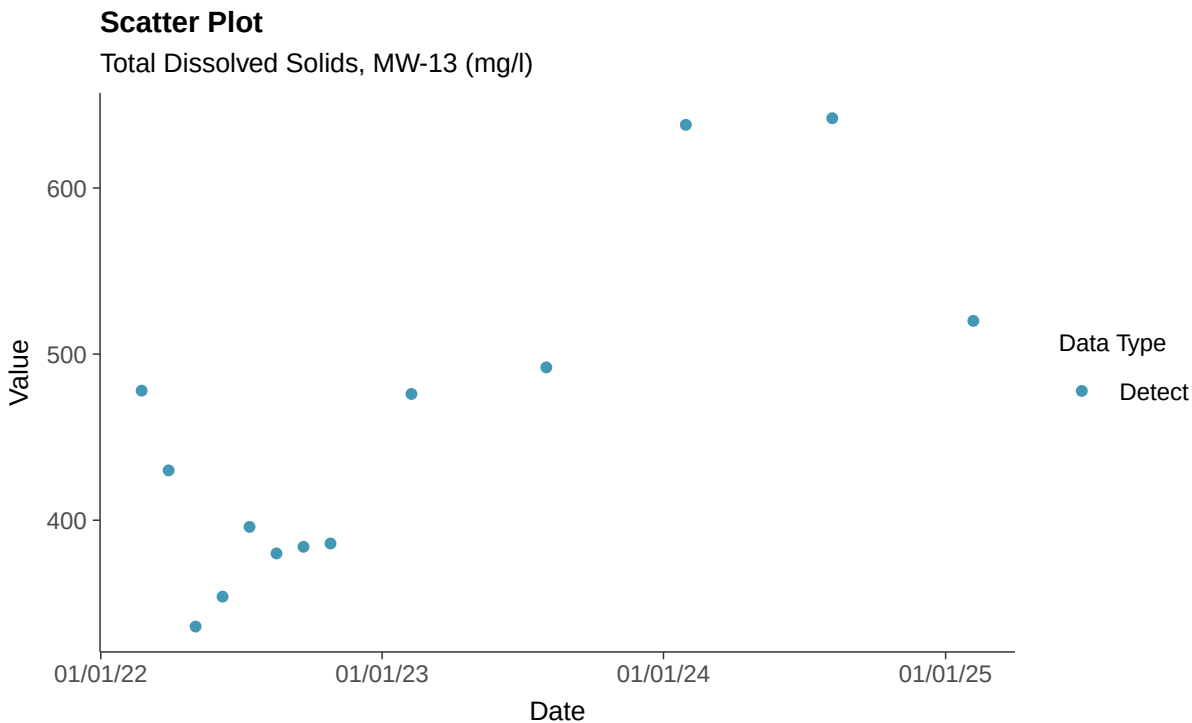






Appendix III: Total Dissolved Solids, MW-13

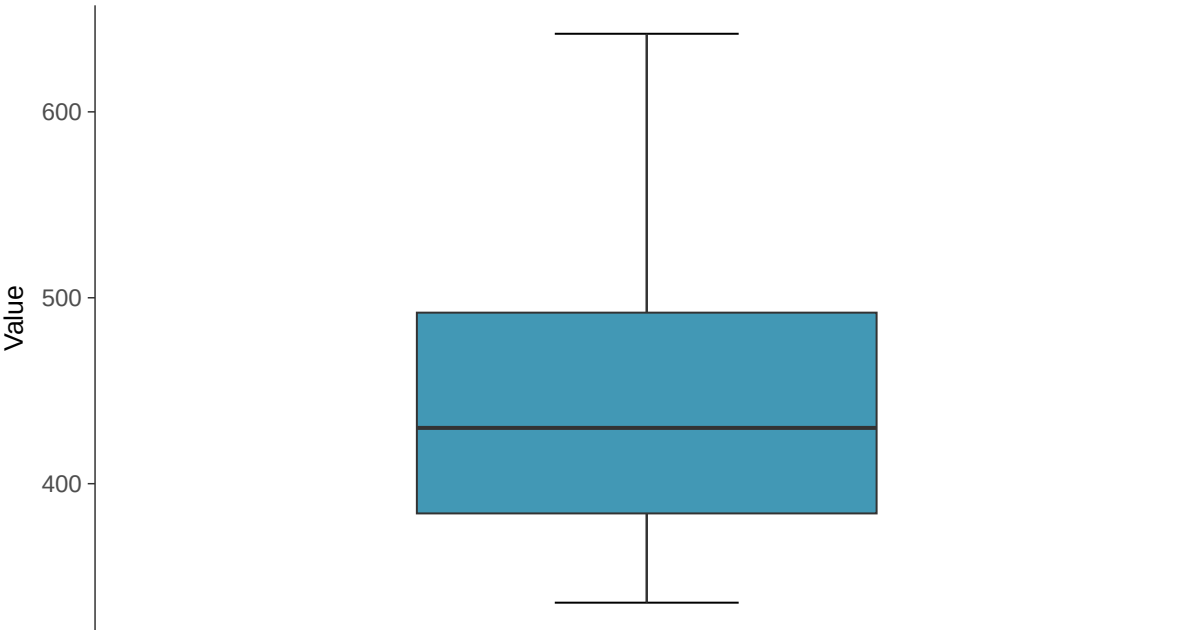
ID: 20_2_126





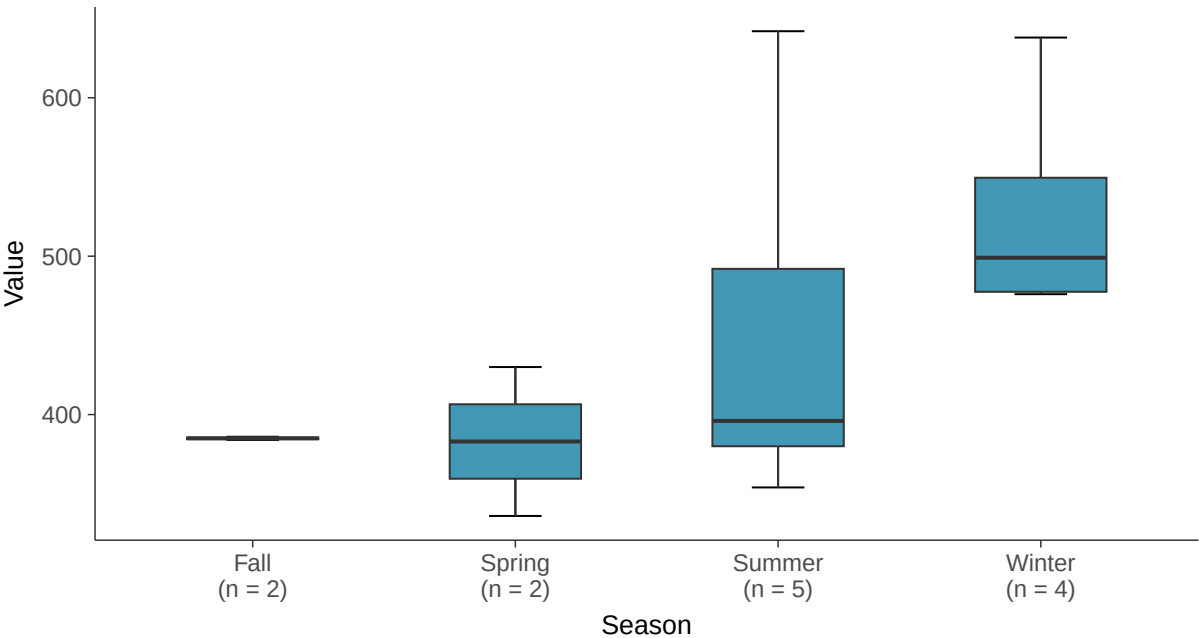
Boxplot

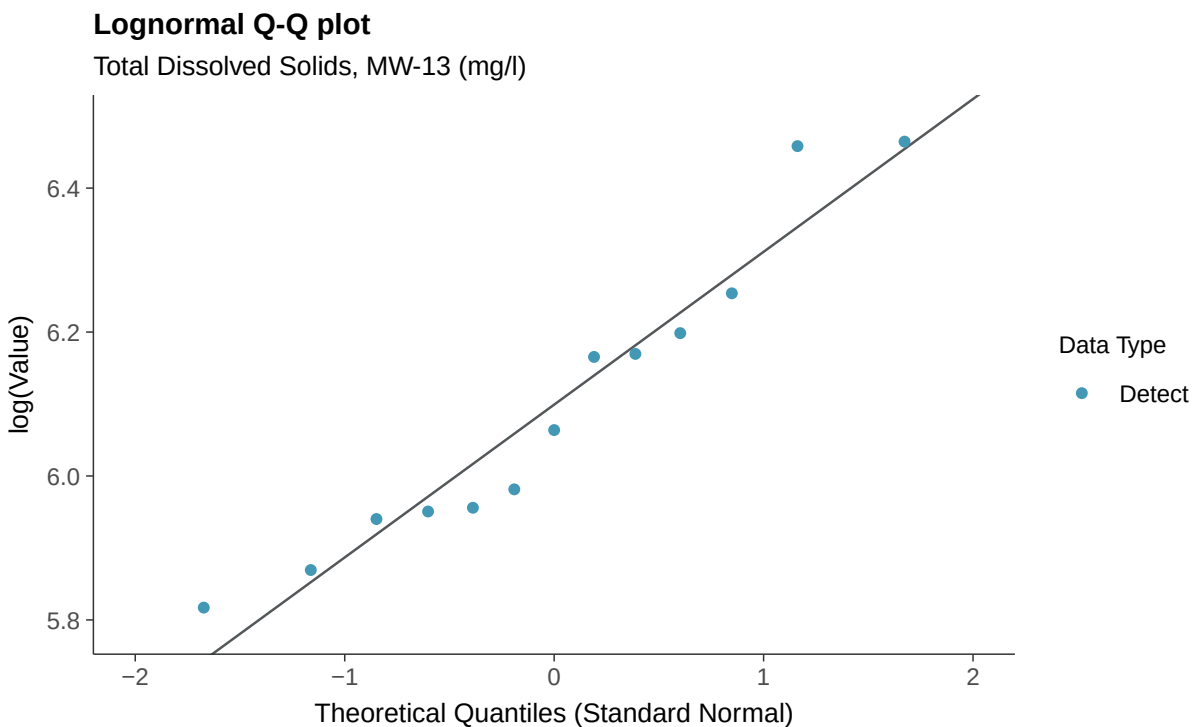
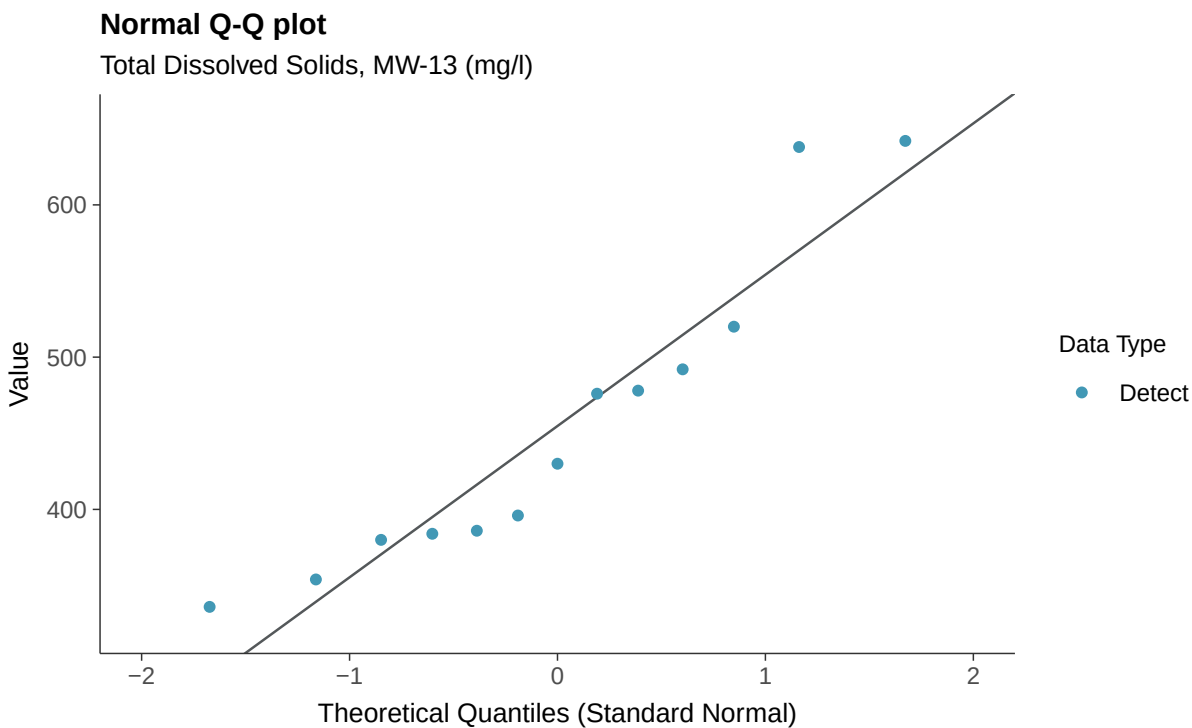
Total Dissolved Solids, MW-13 (mg/l)

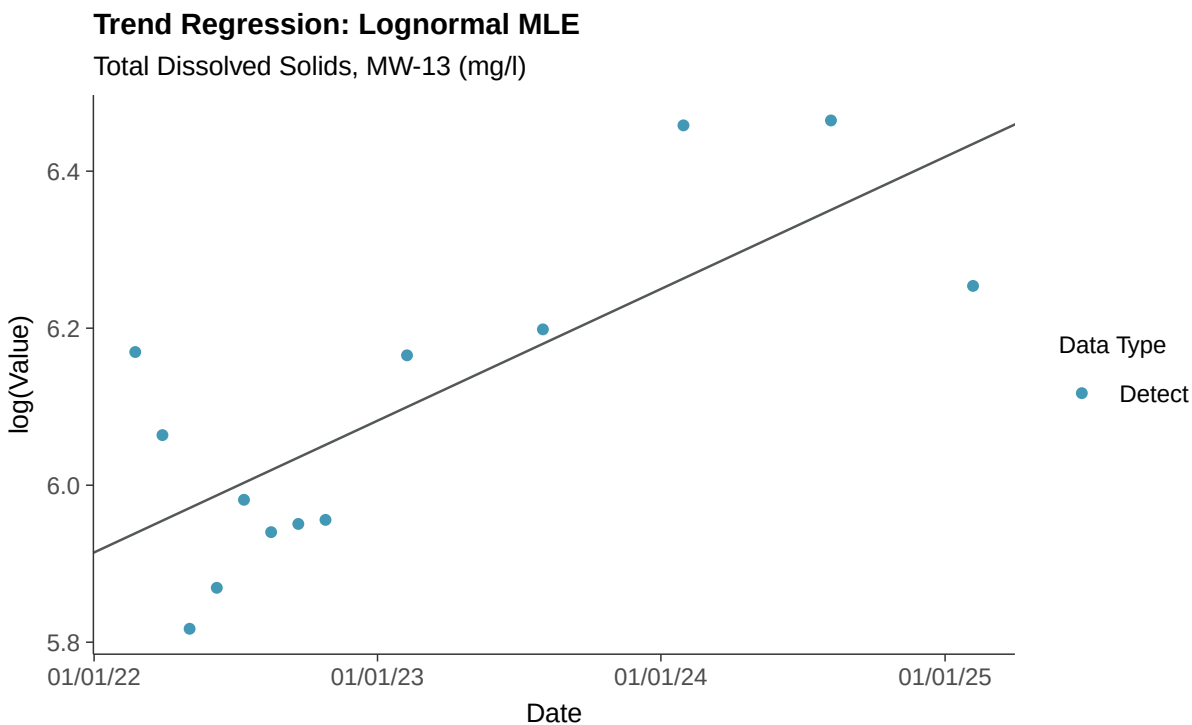
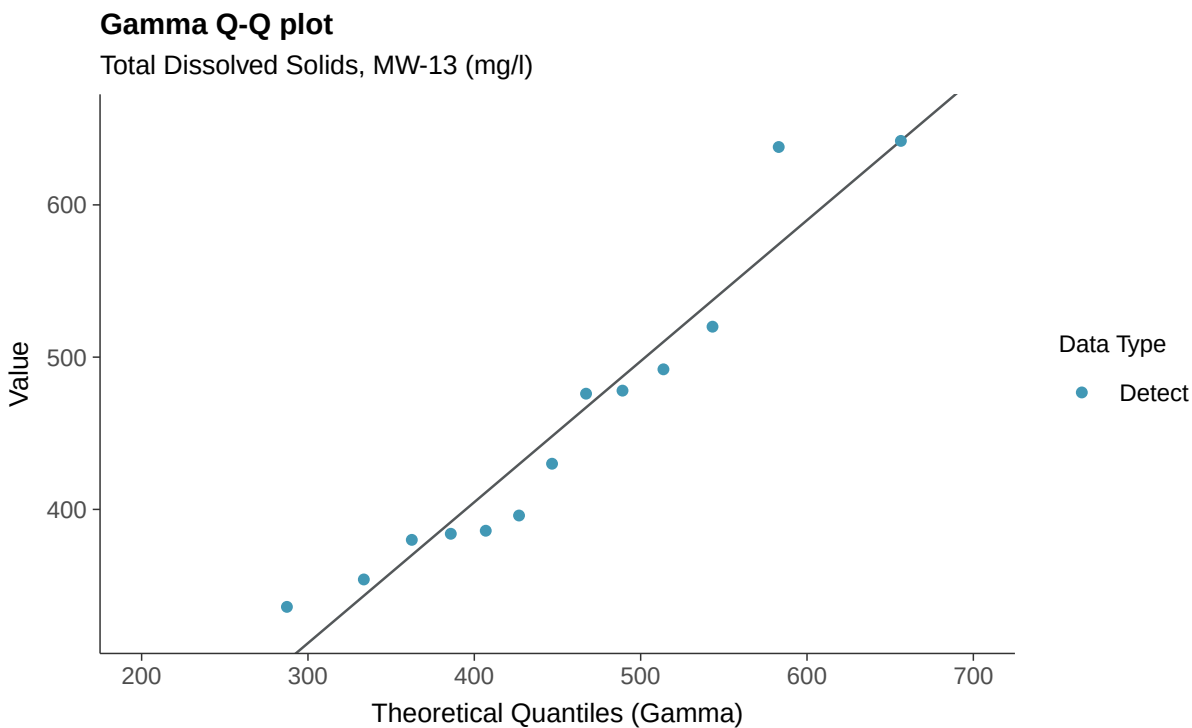


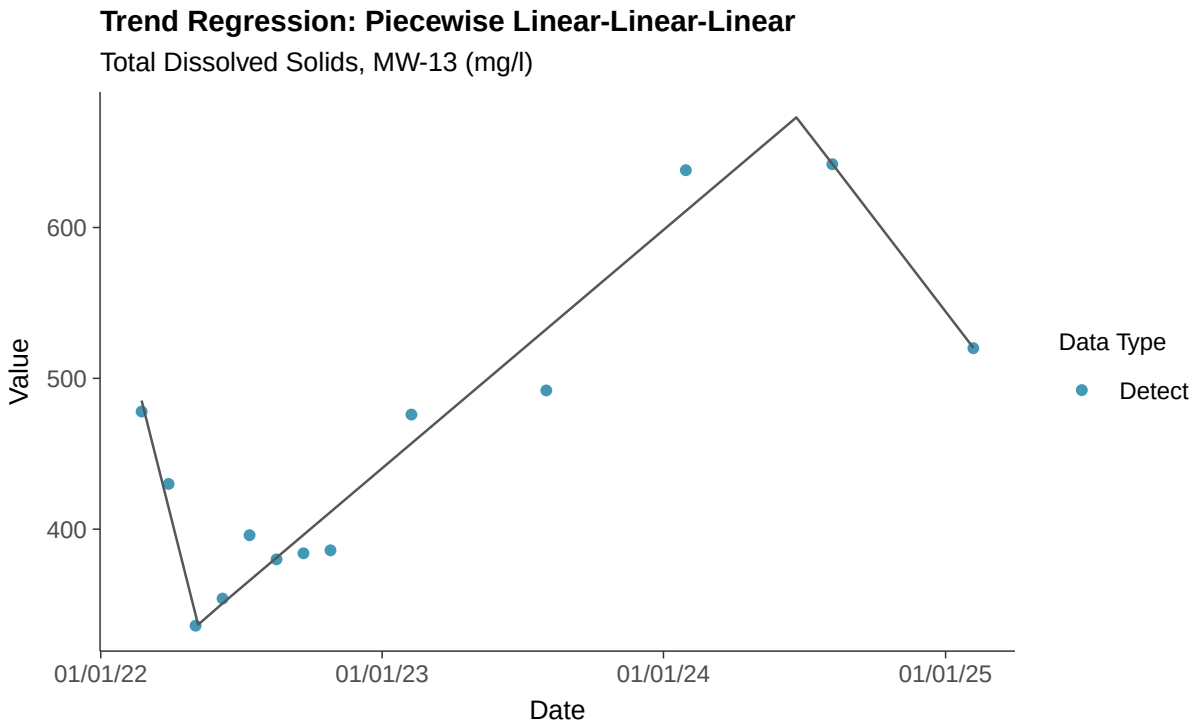
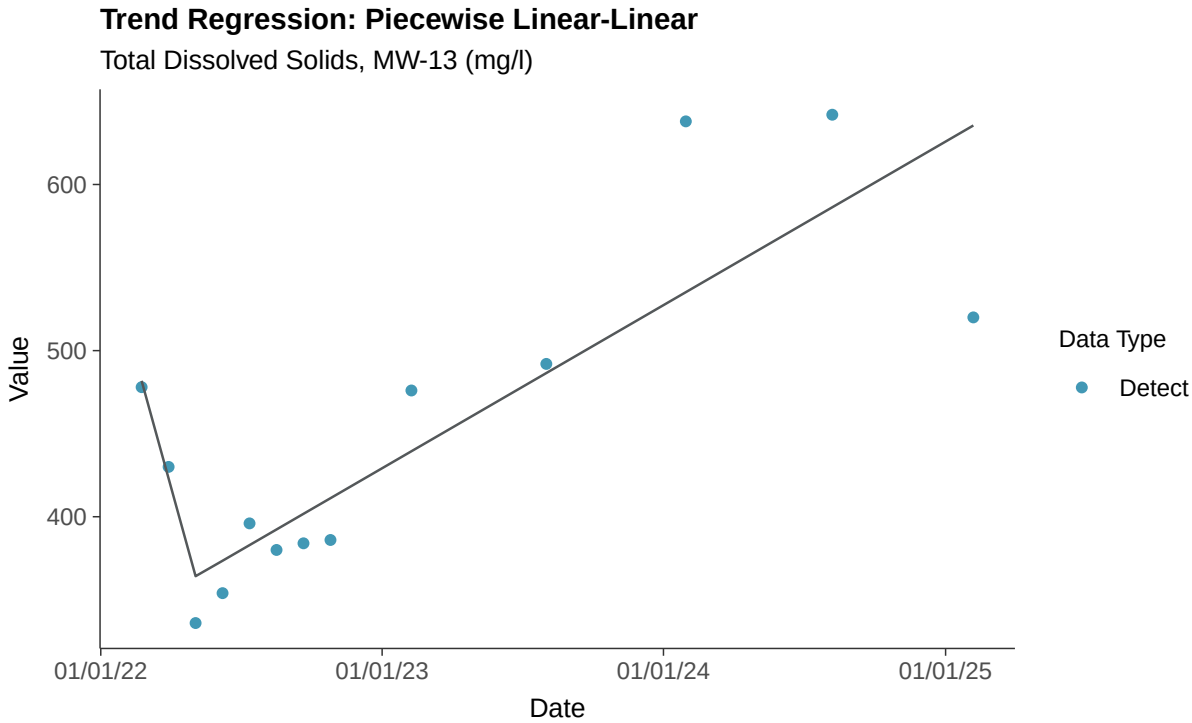
Boxplot by Season

Total Dissolved Solids, MW-13 (mg/l)





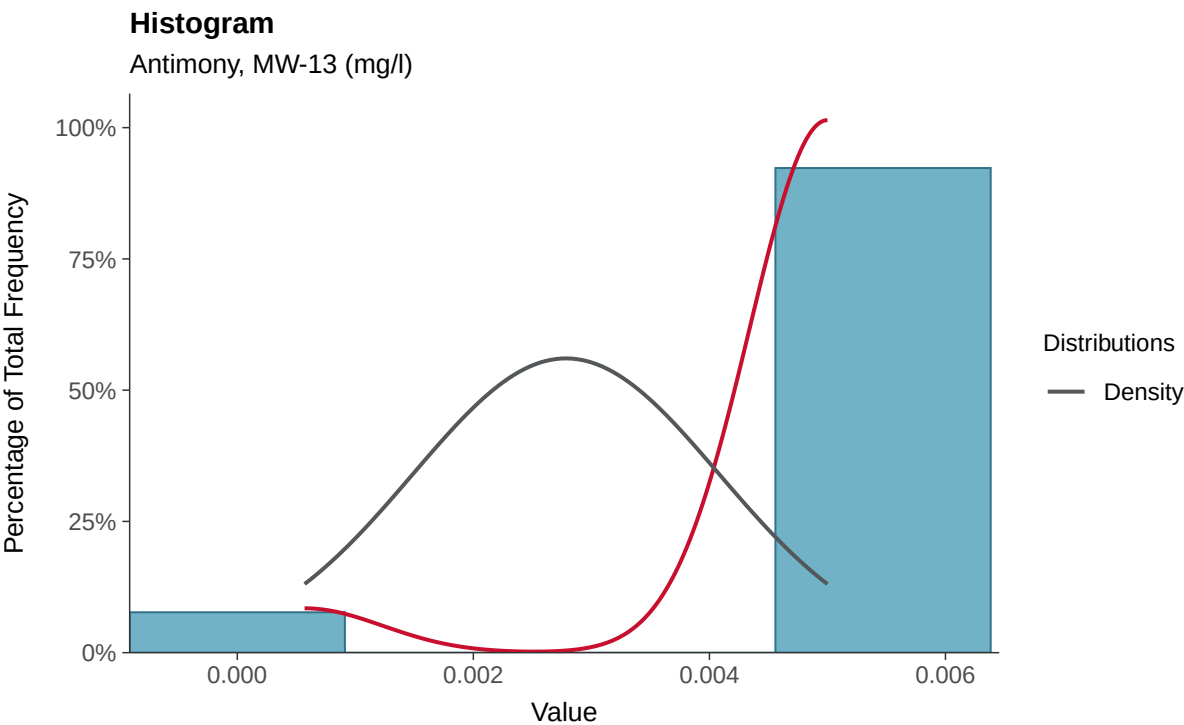
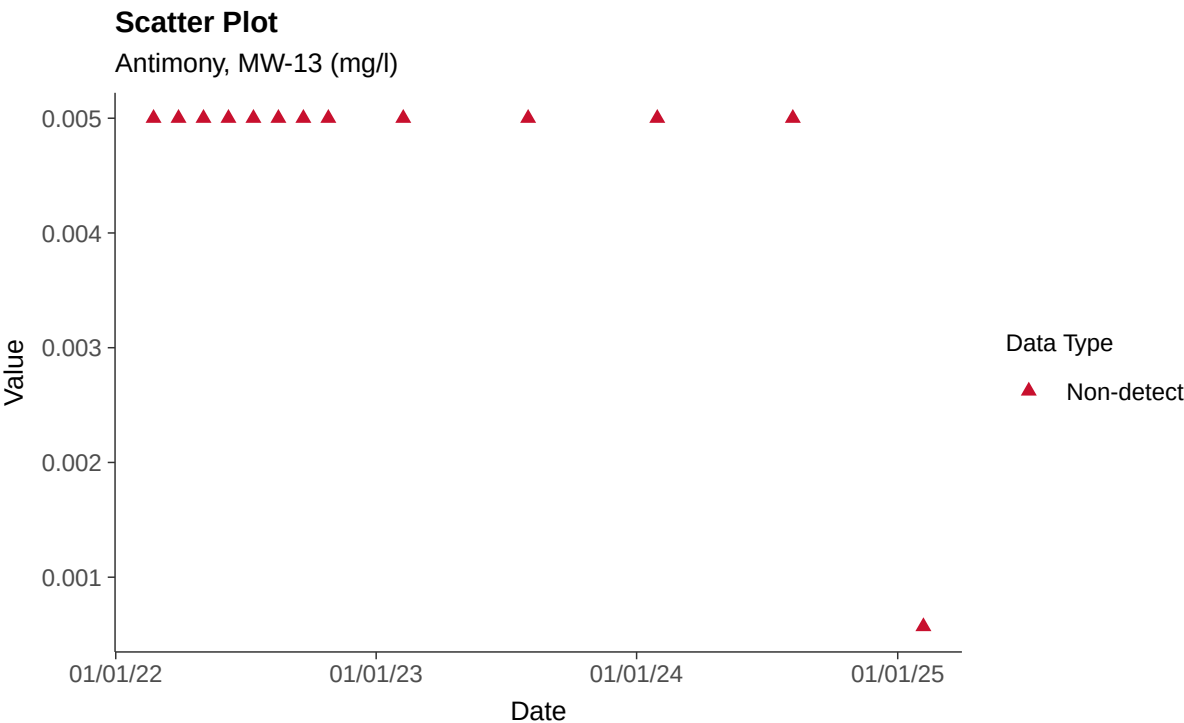


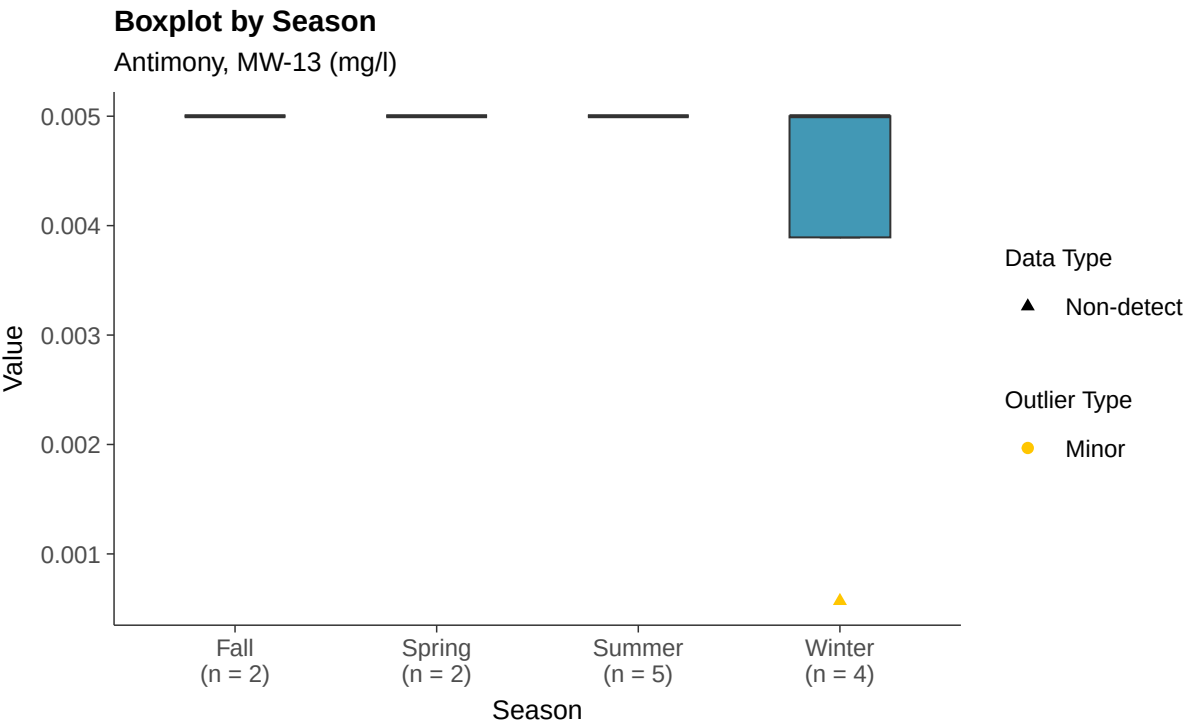
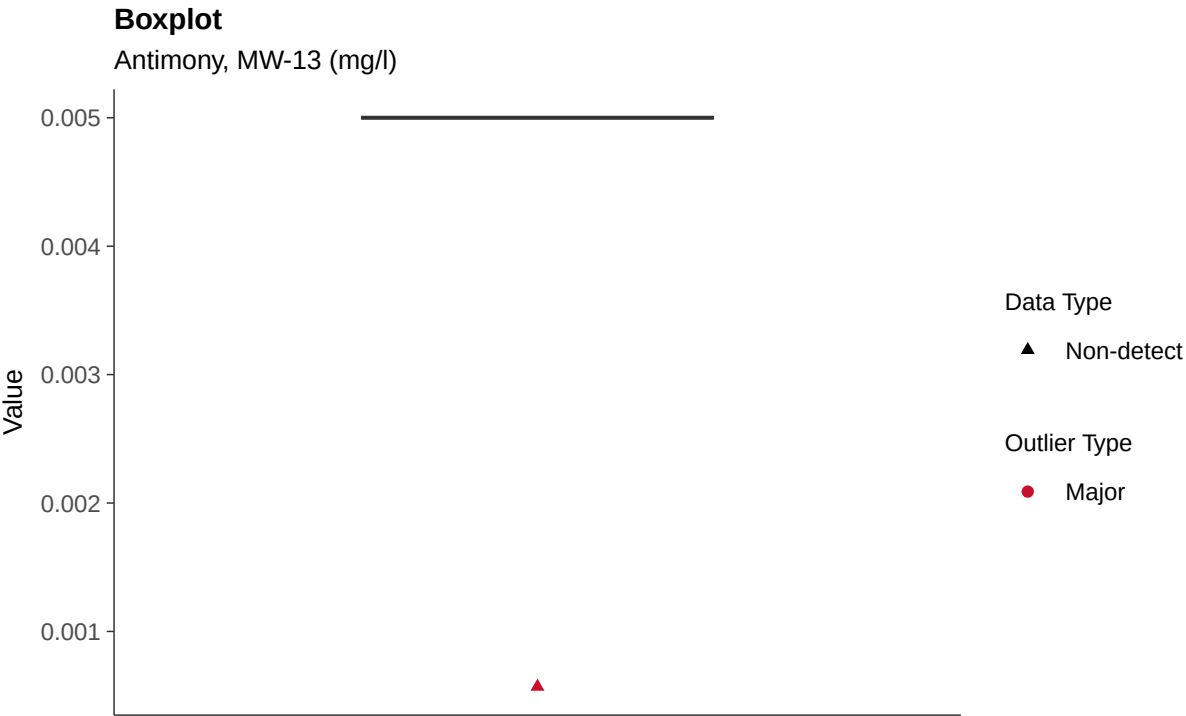




Appendix IV: Antimony, MW-13

ID: 20_3_101

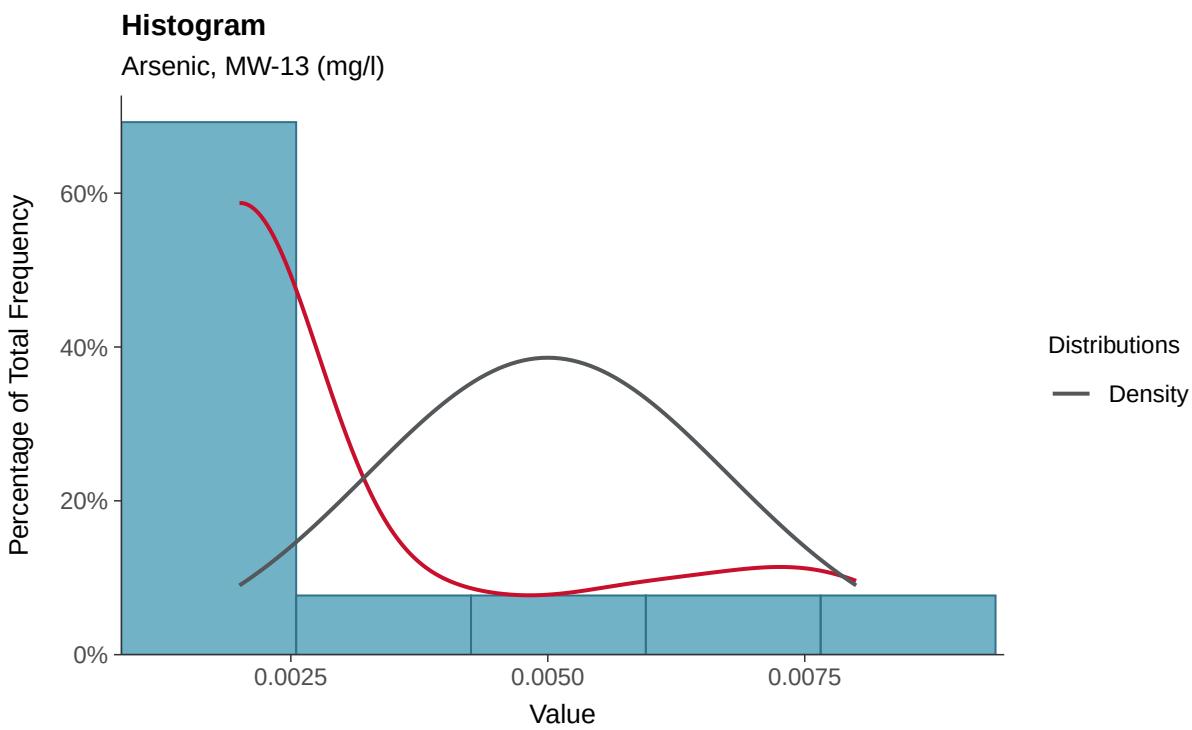
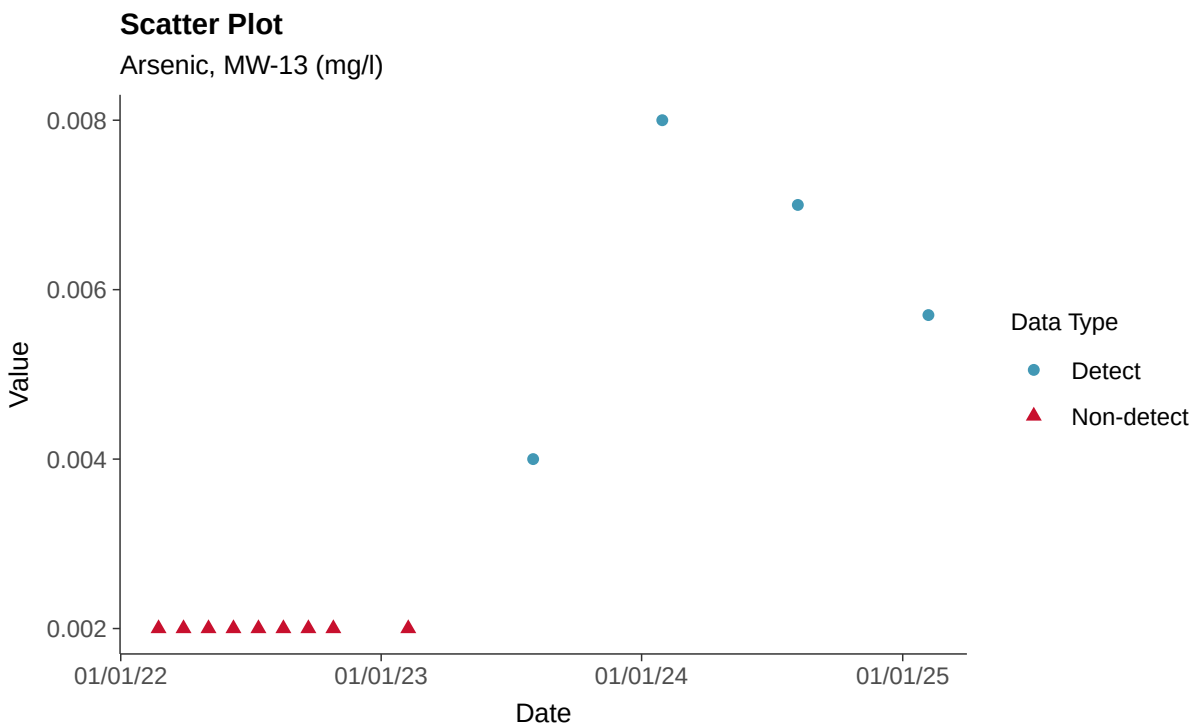


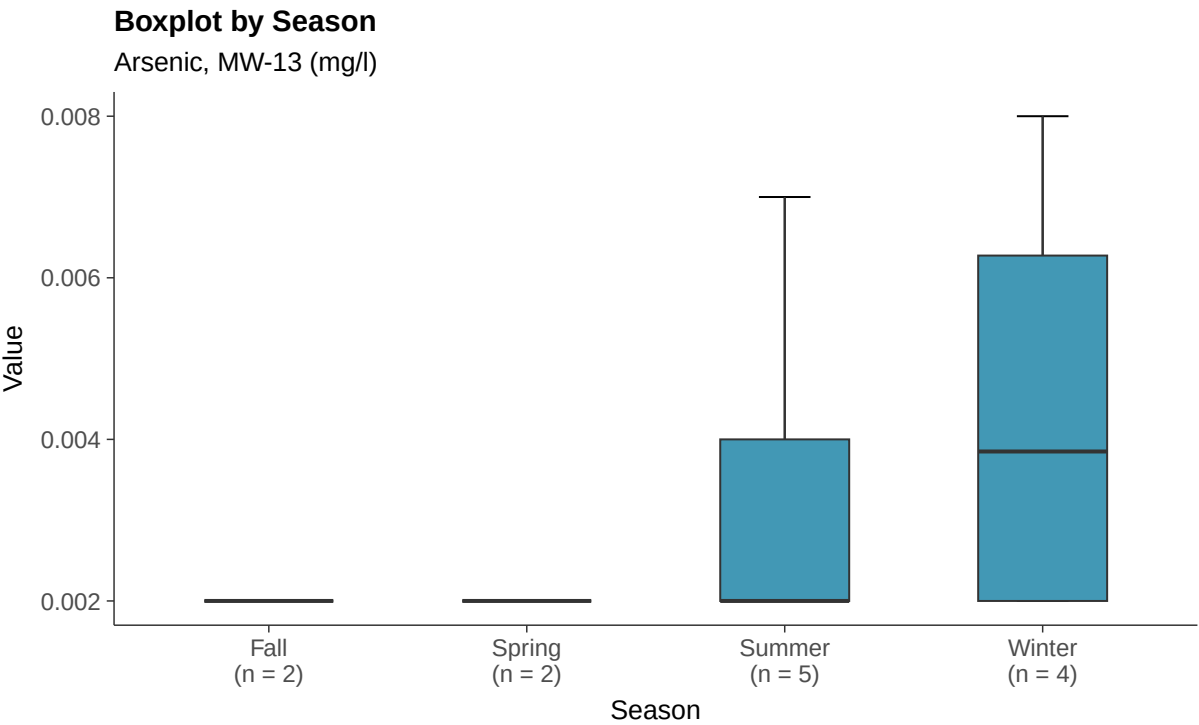
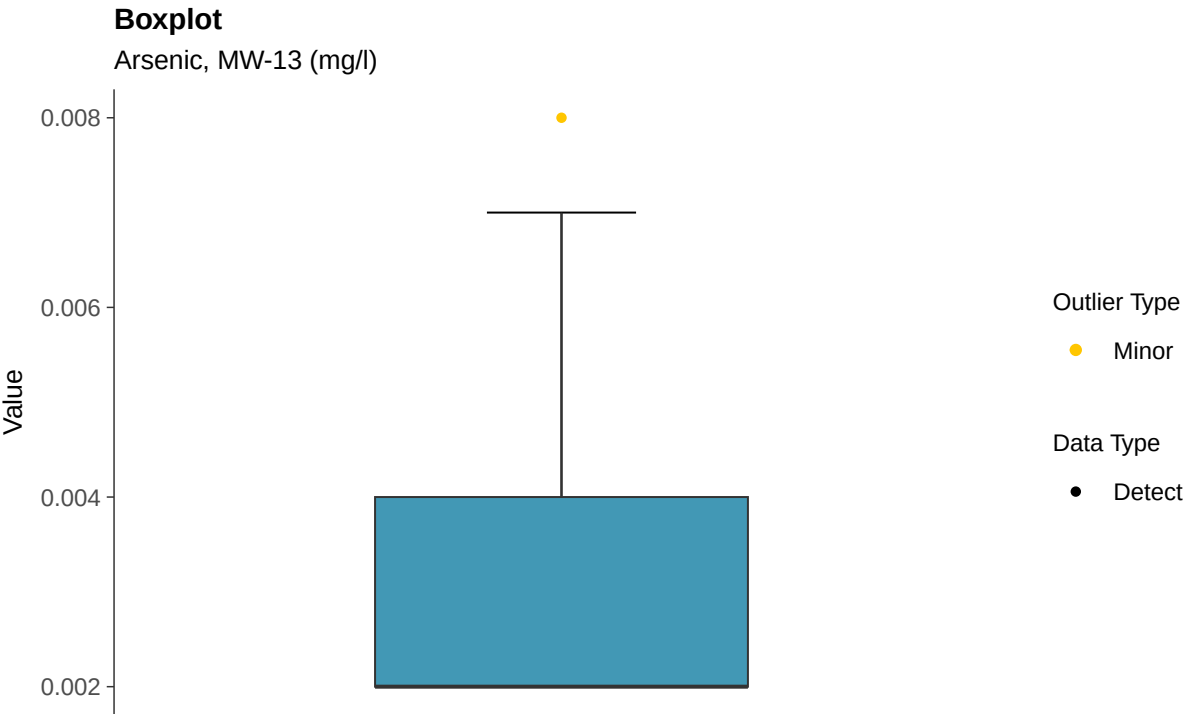




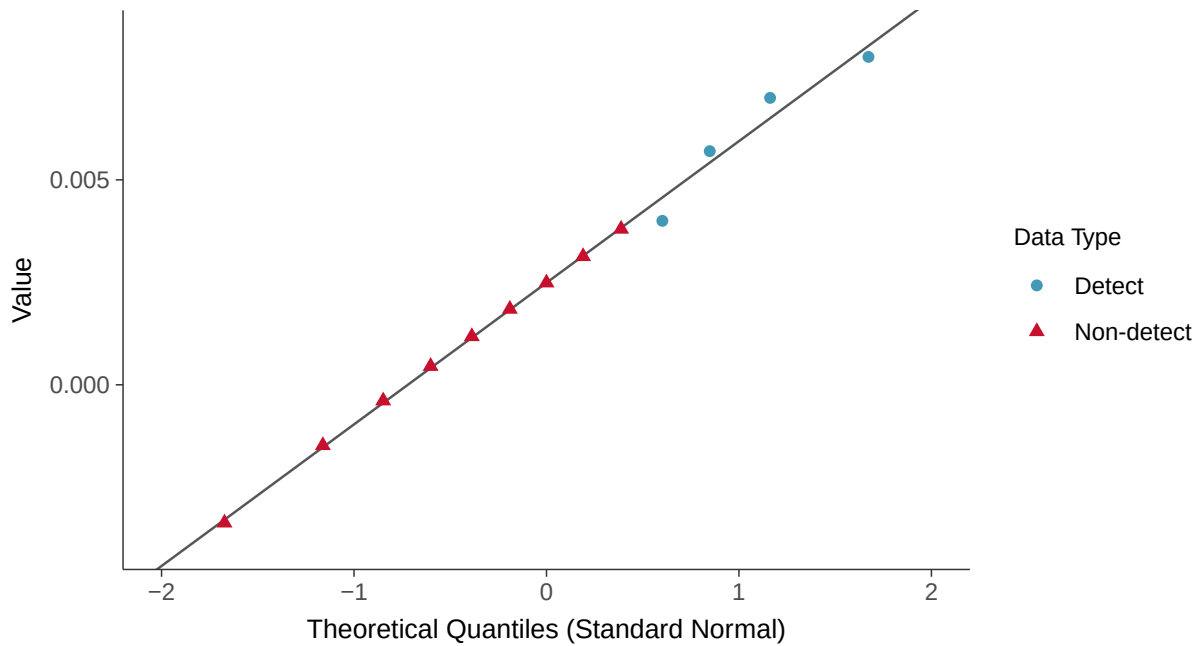
Appendix IV: Arsenic, MW-13

ID: 20_3_102

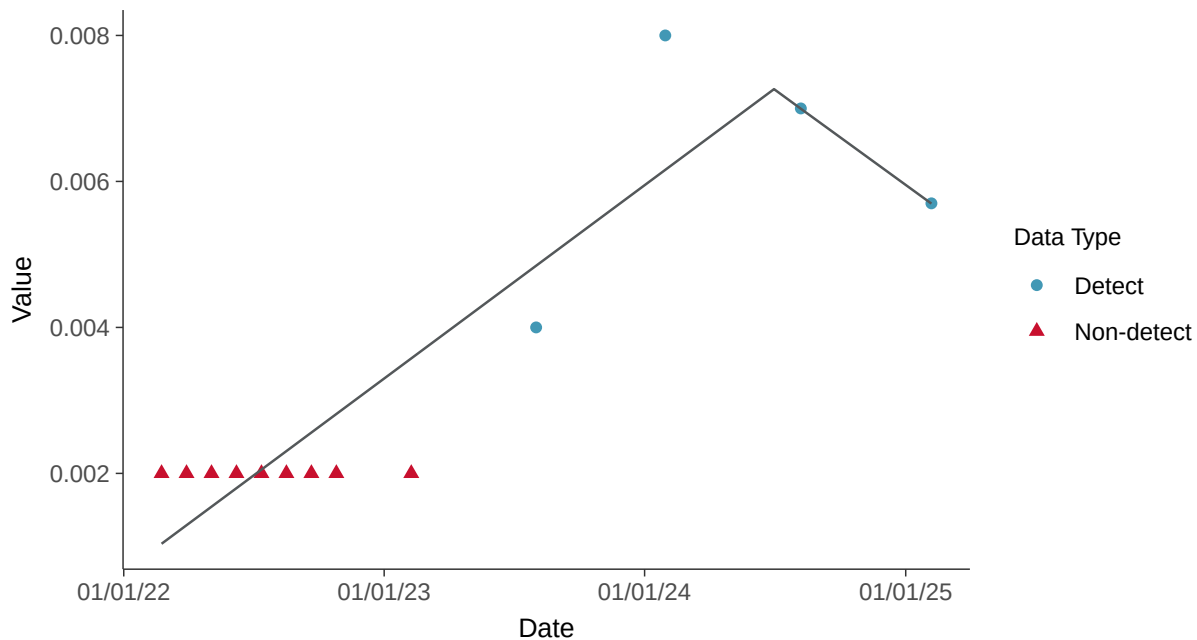




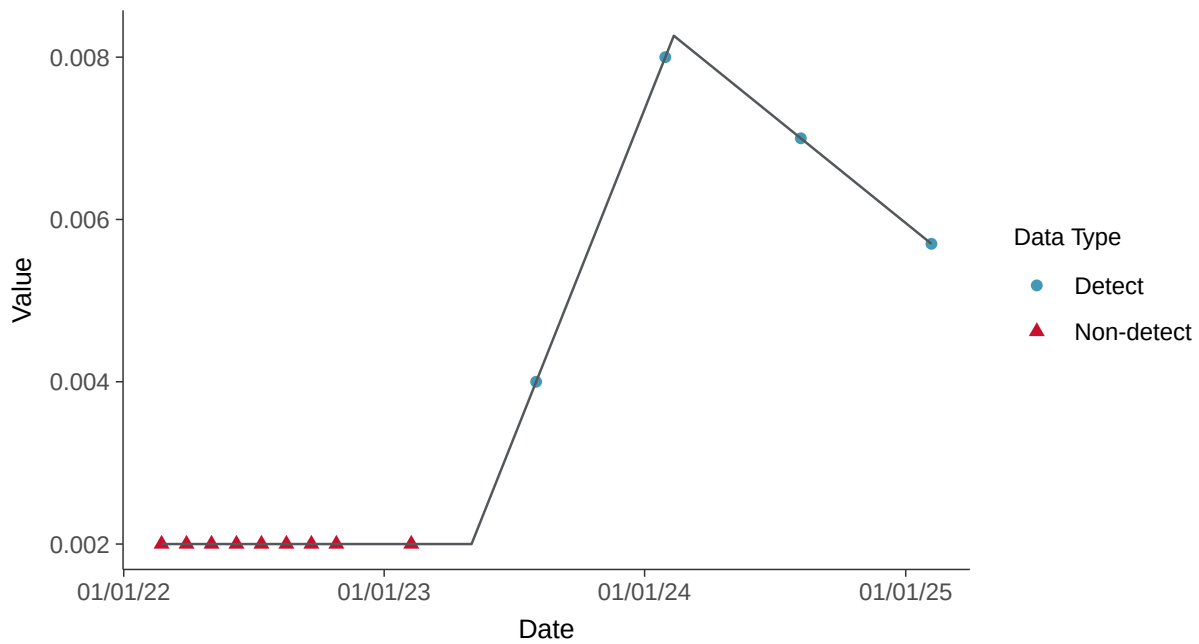
Arsenic, MW-13 (mg/l)



Arsenic, MW-13 (mg/l)



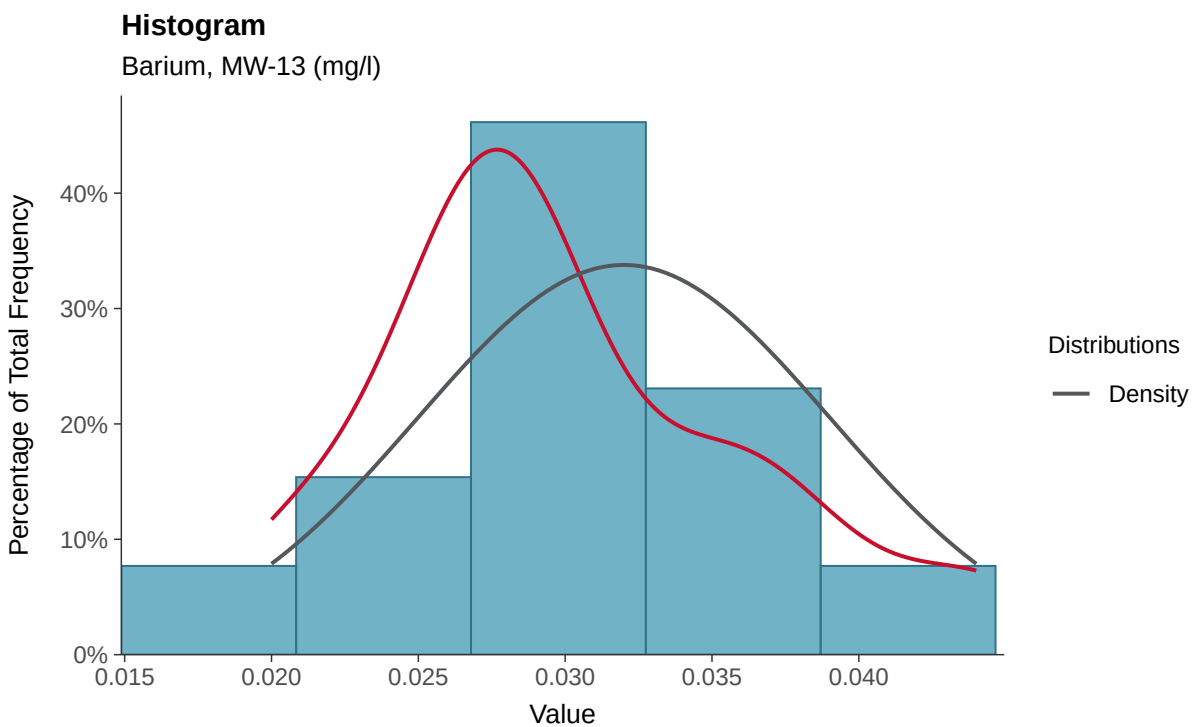
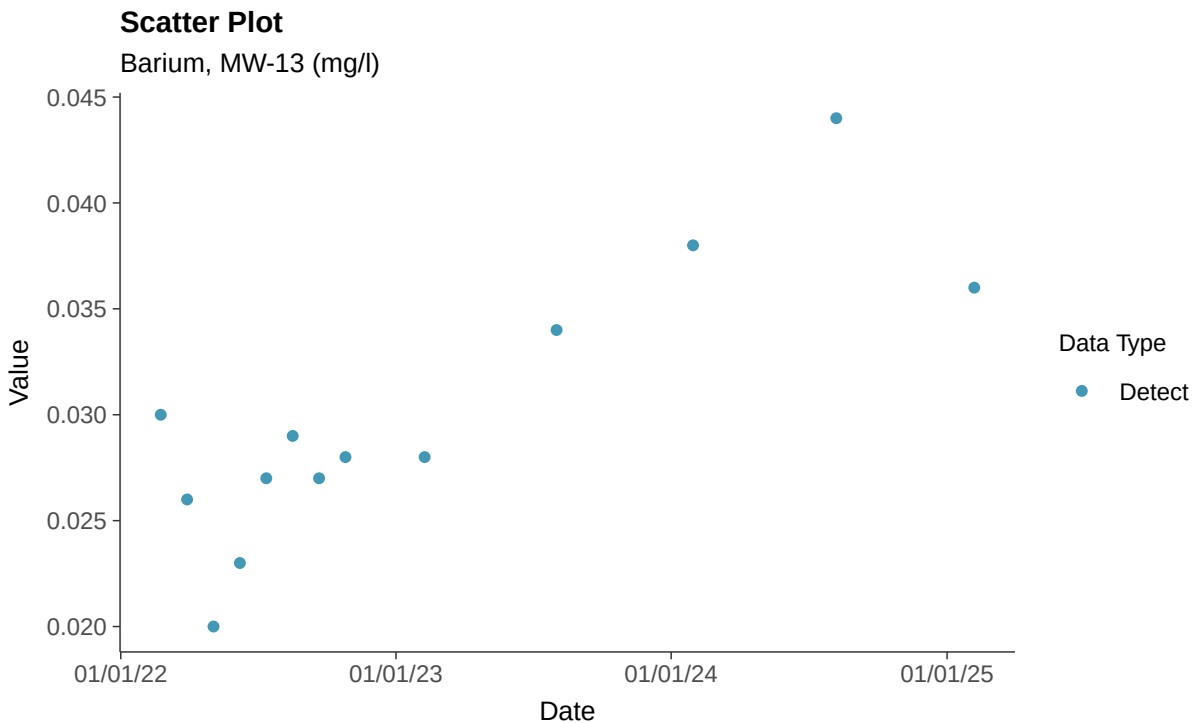
Arsenic, MW-13 (mg/l)

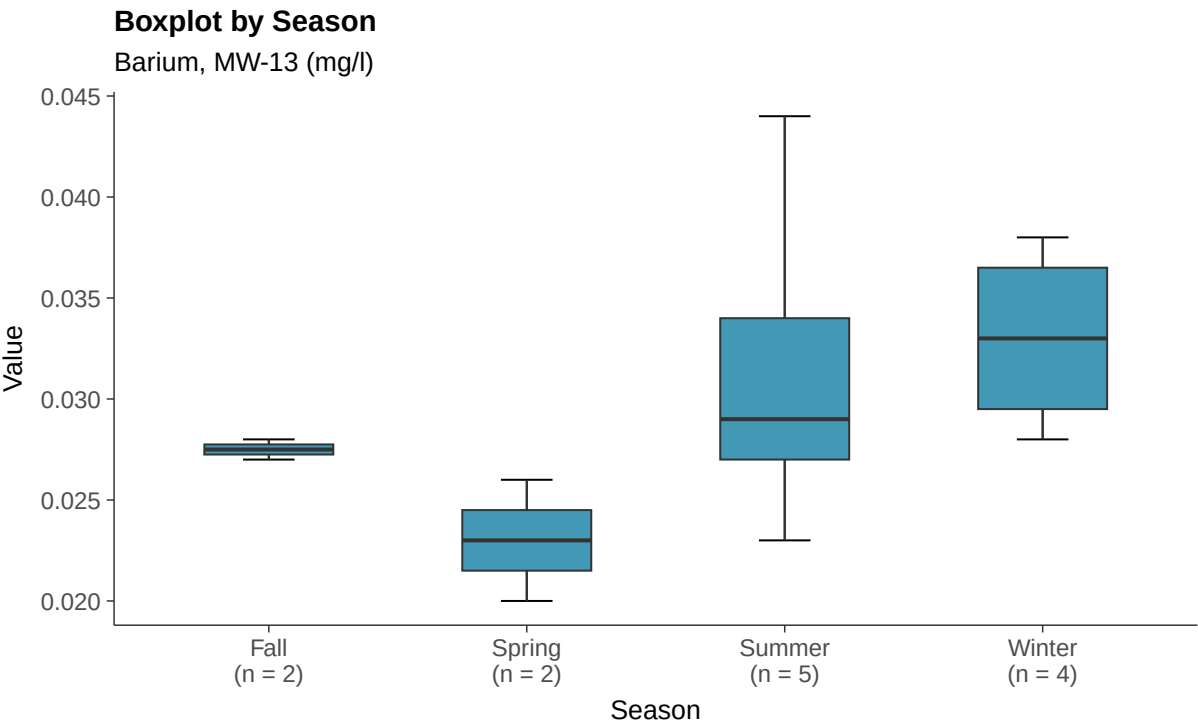
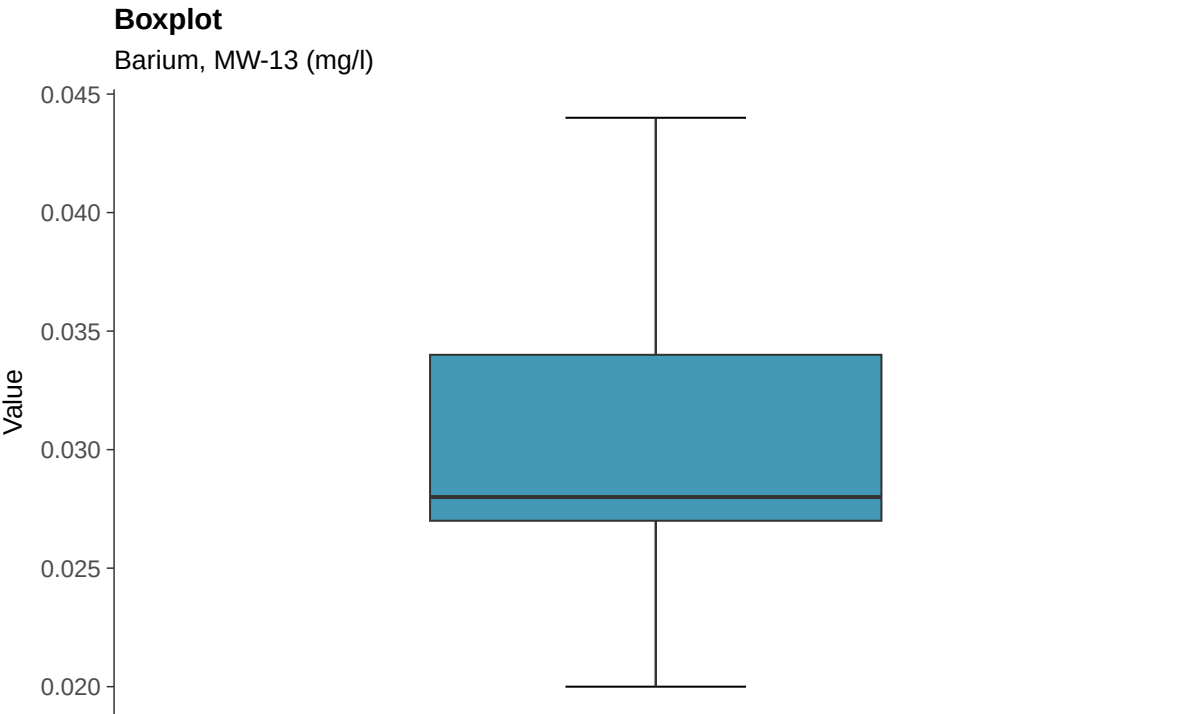


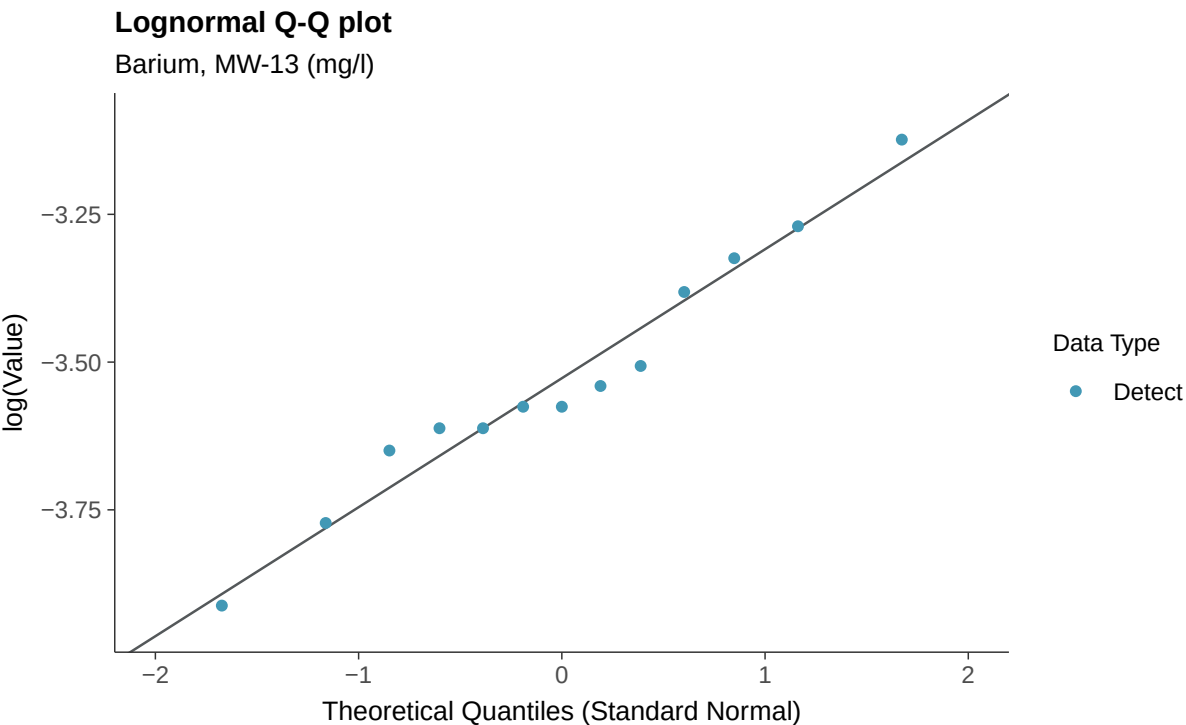
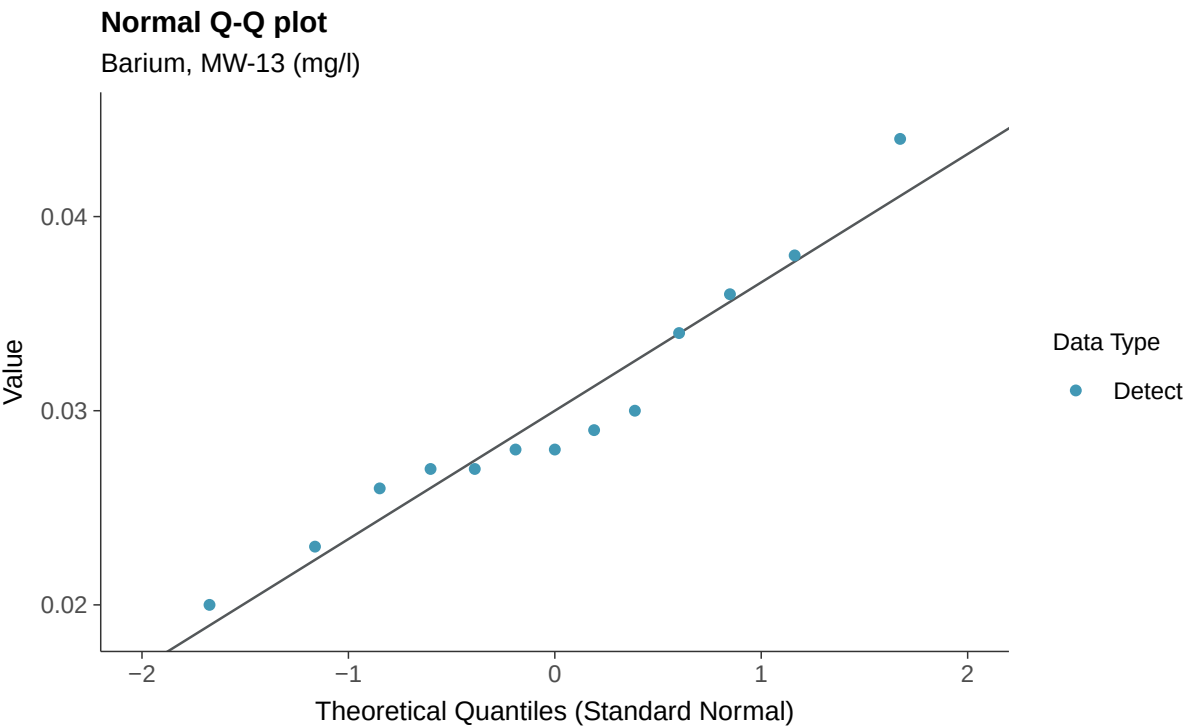


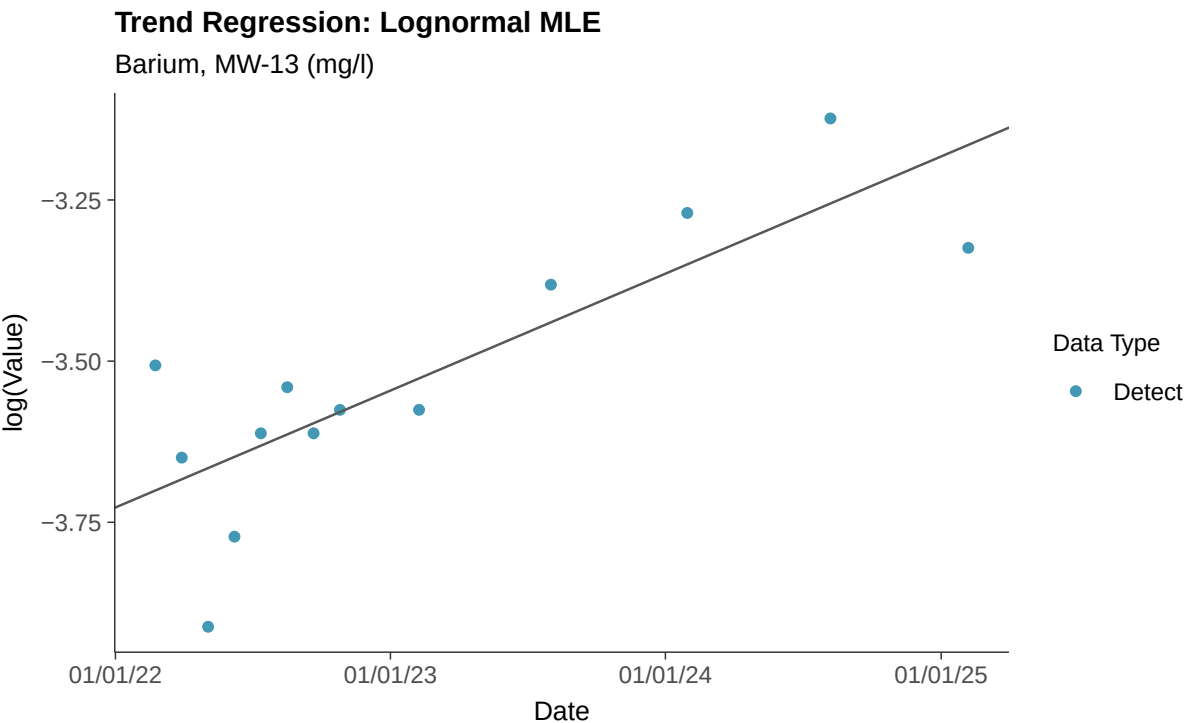
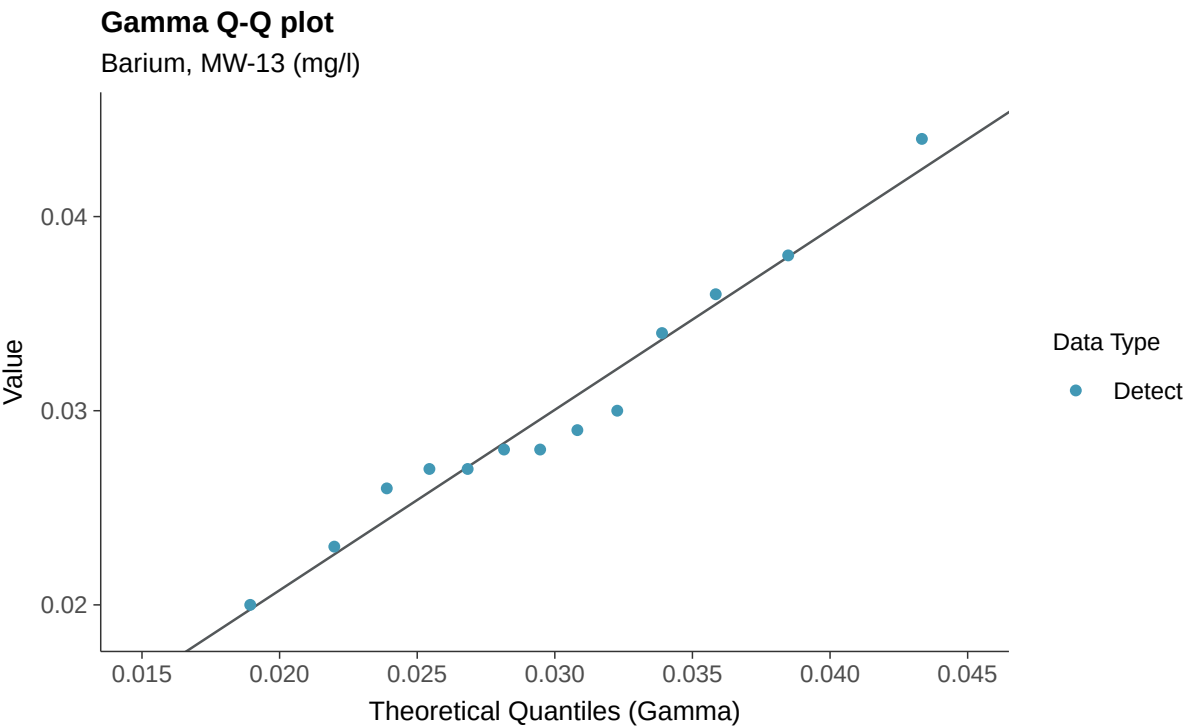
Appendix IV: Barium, MW-13

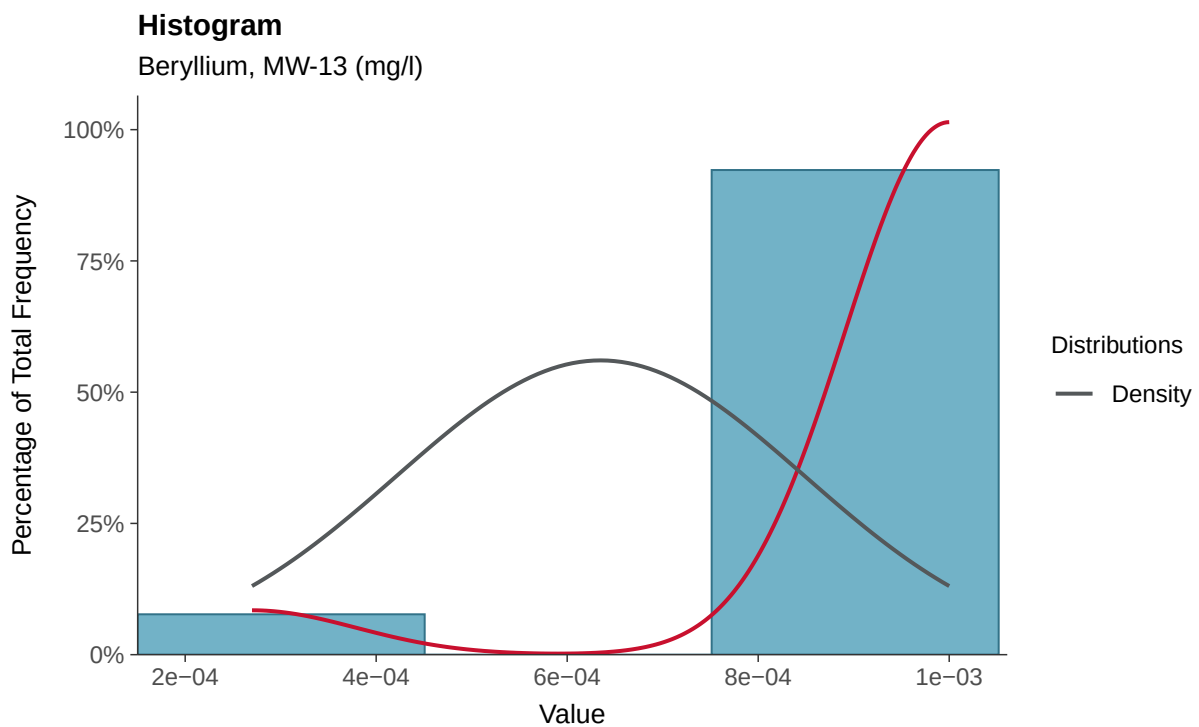
ID: 20_3_103

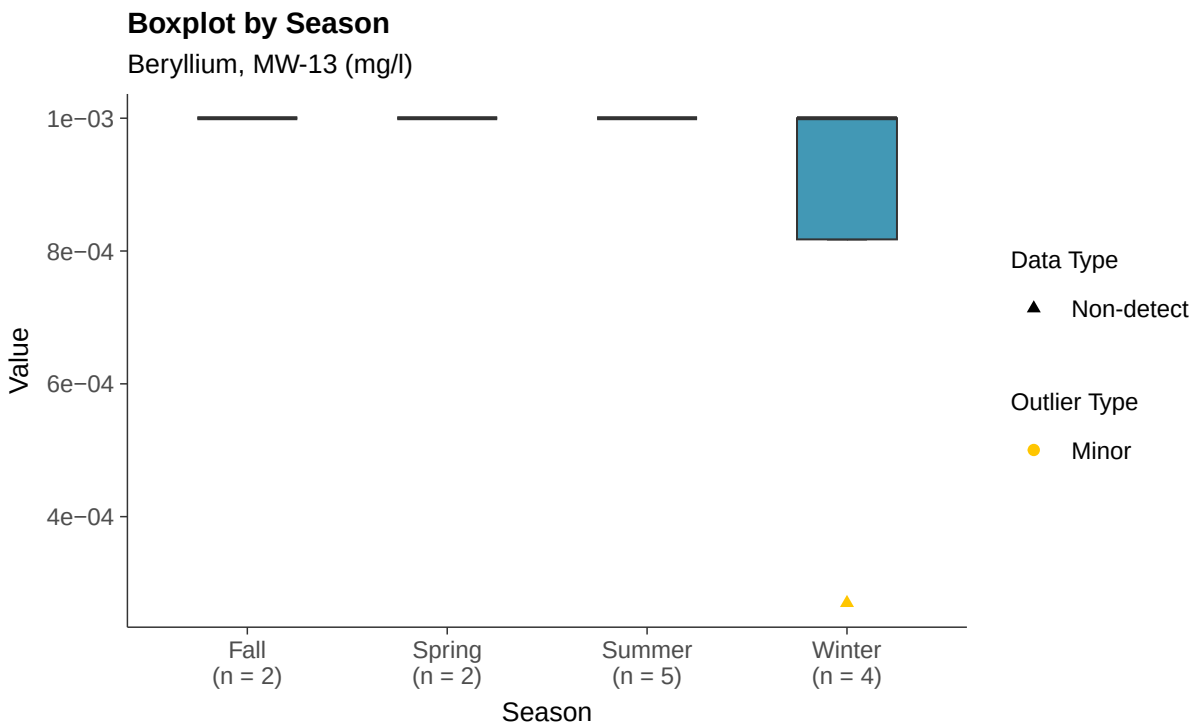
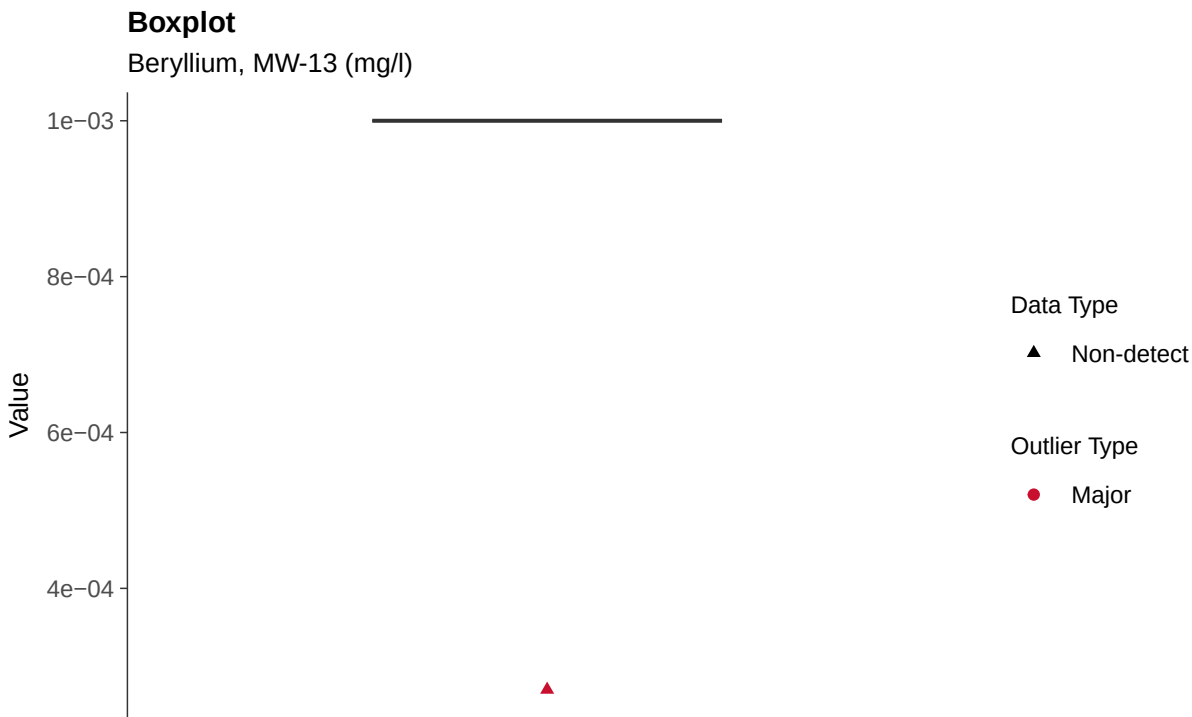


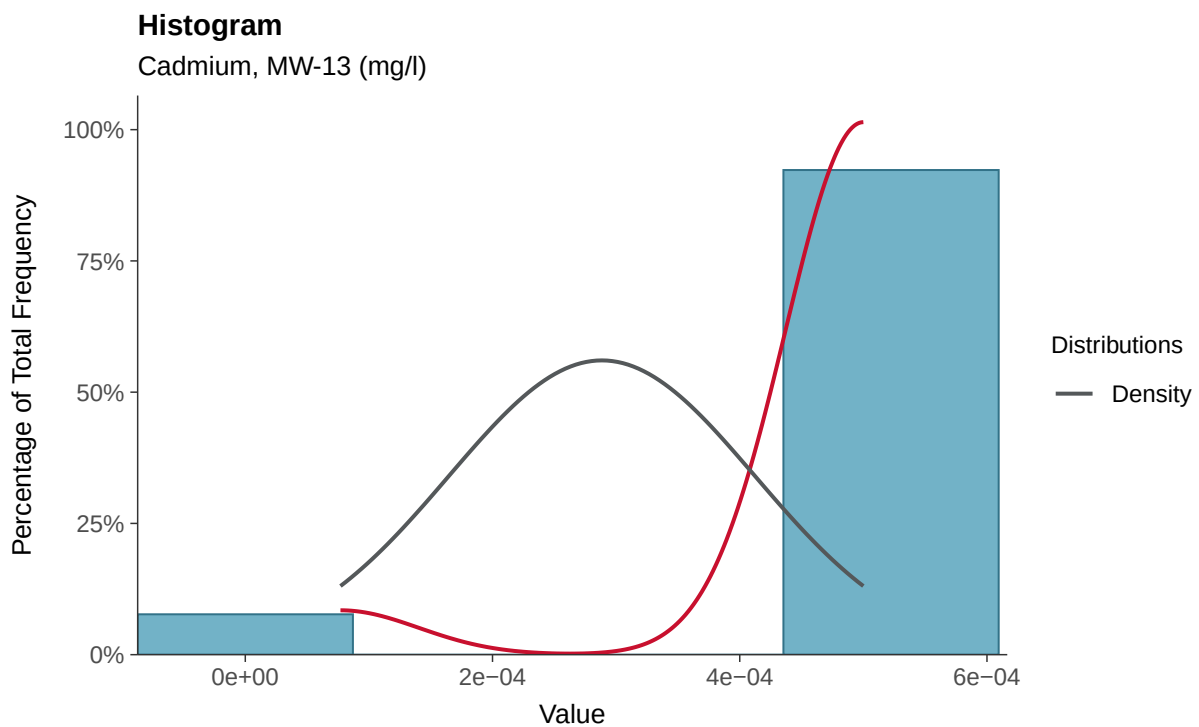


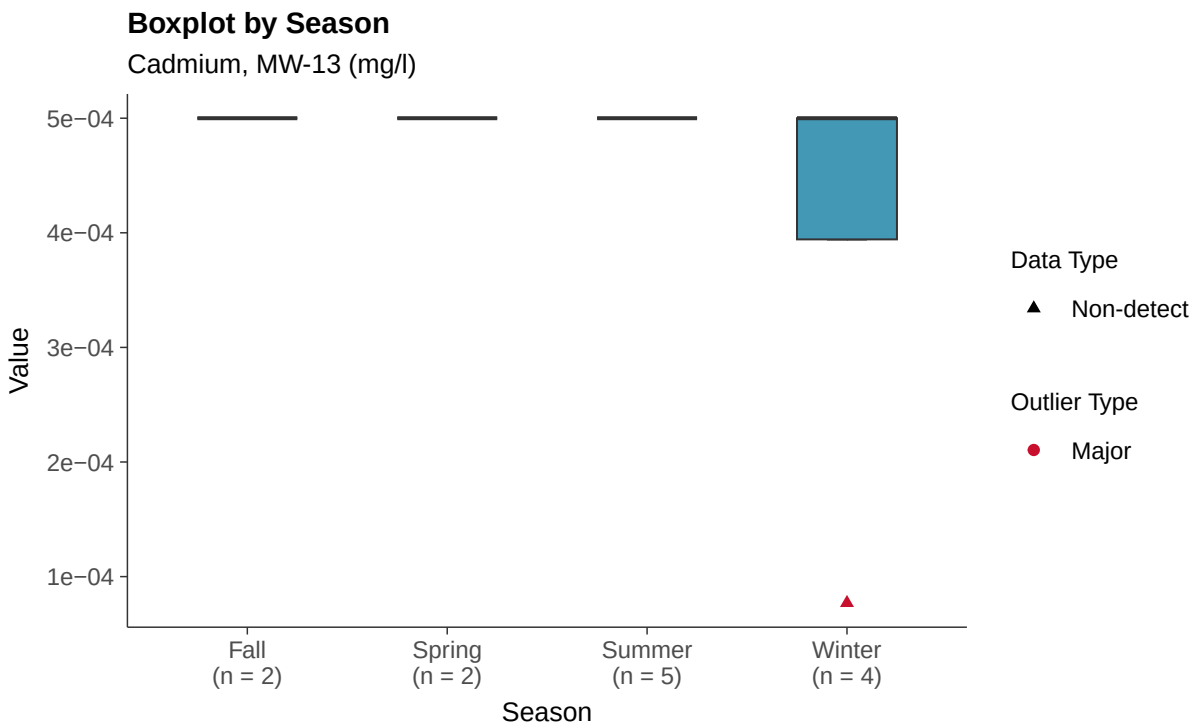
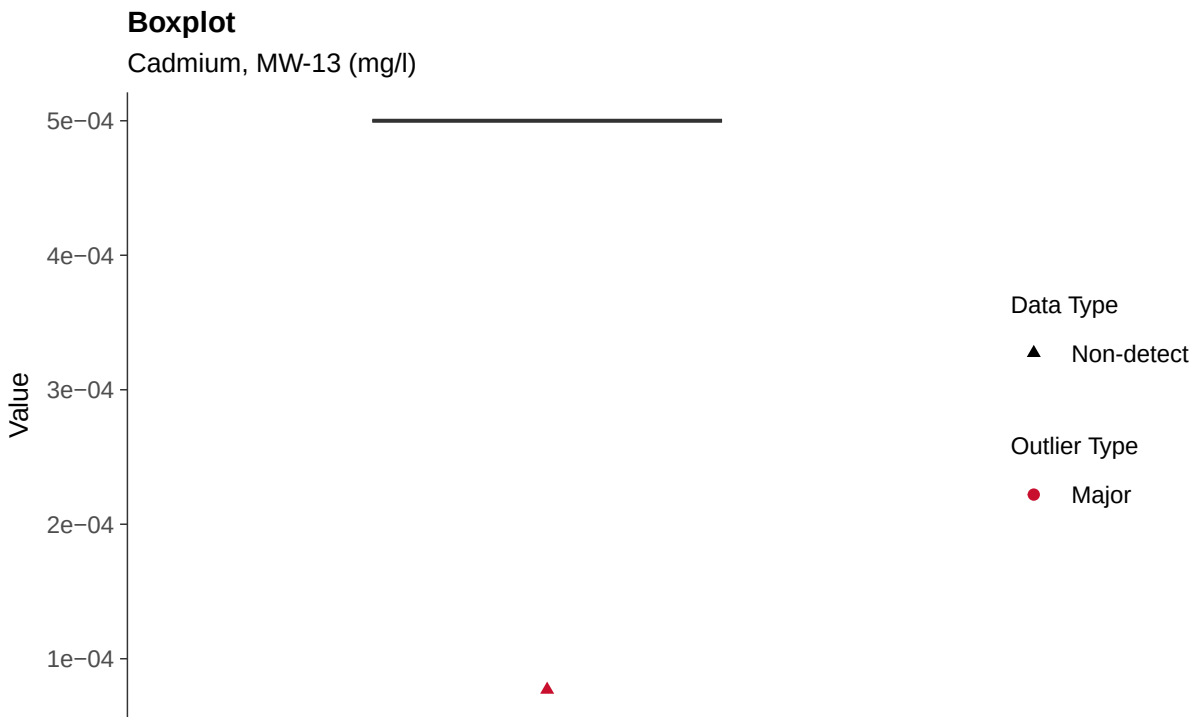


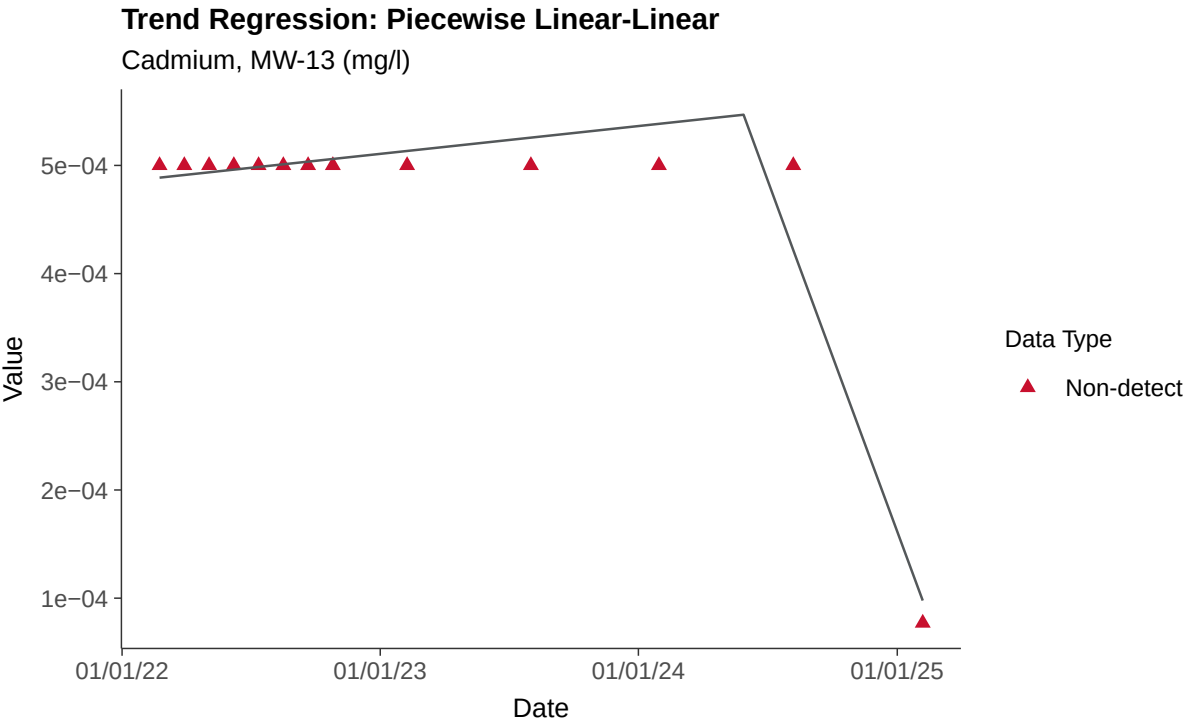








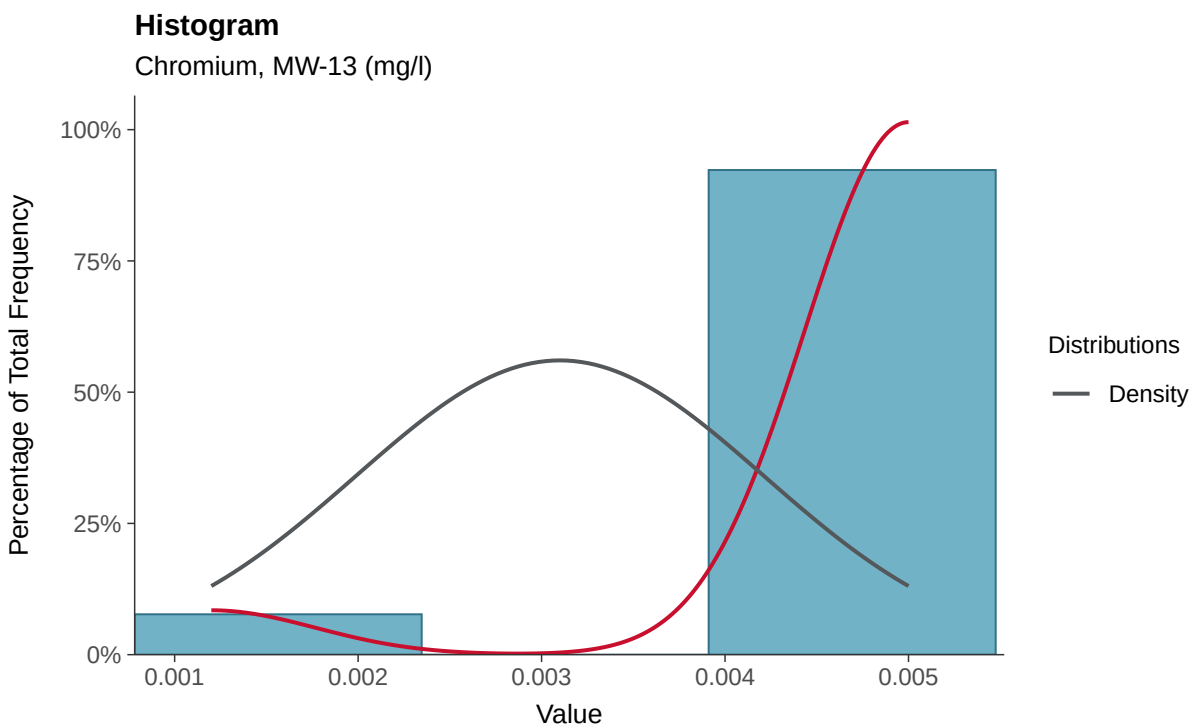
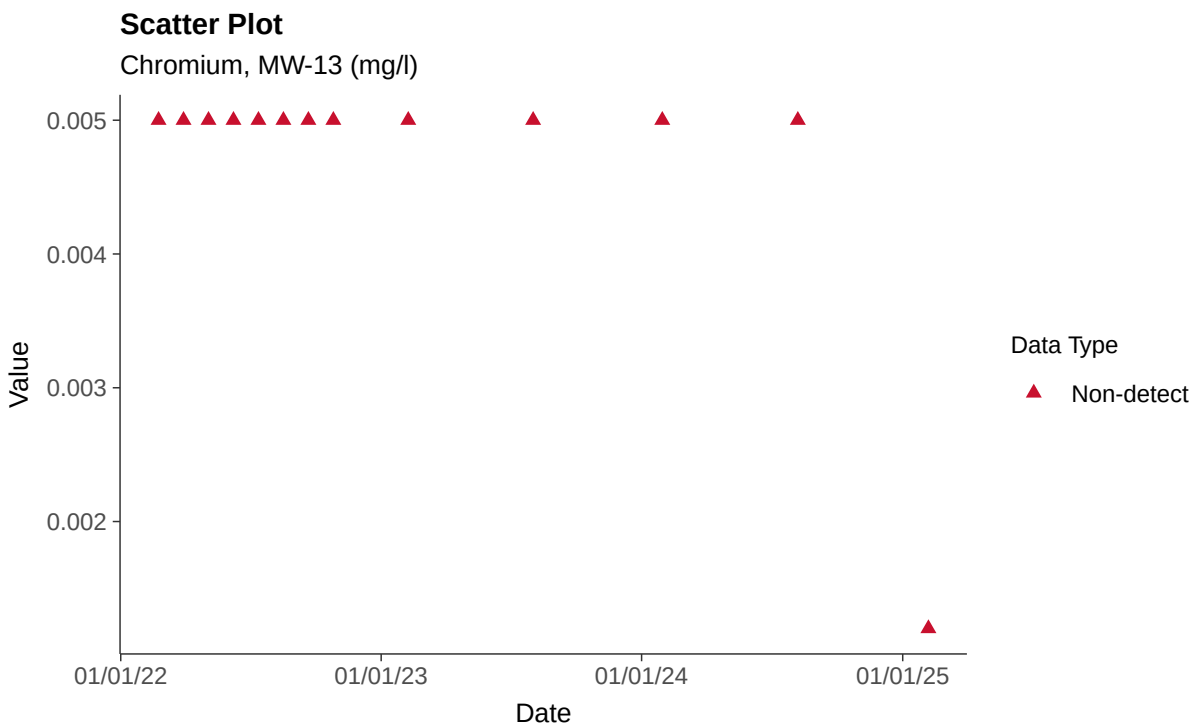


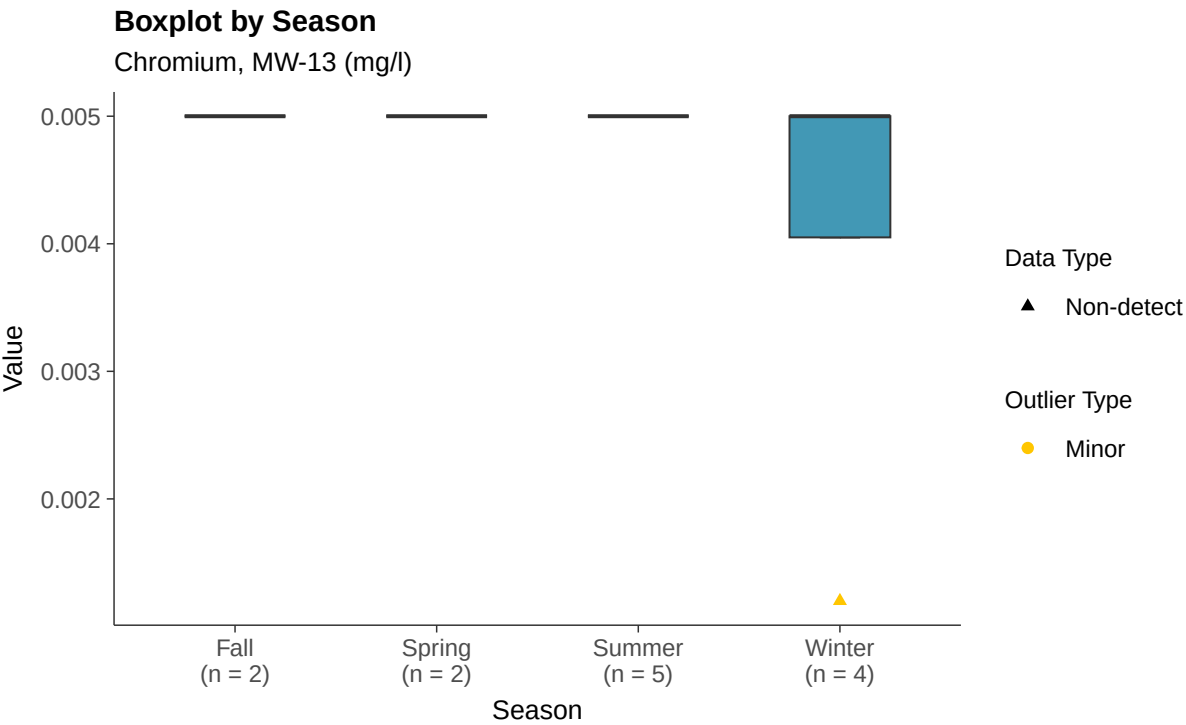
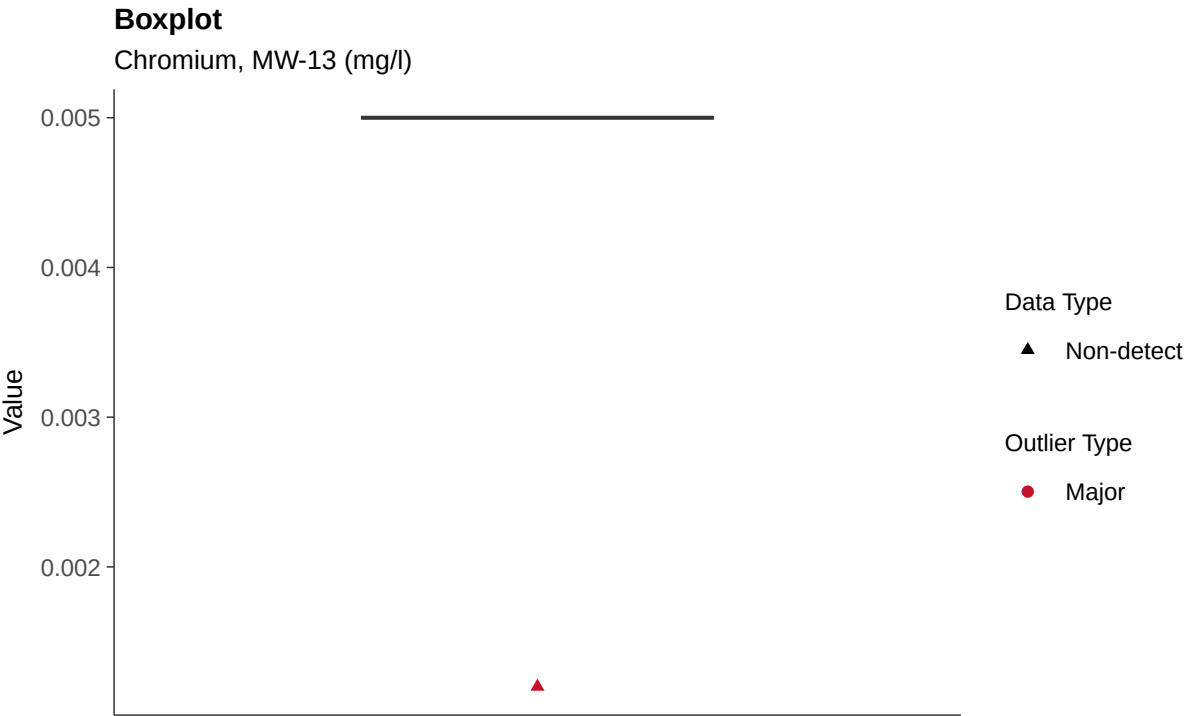


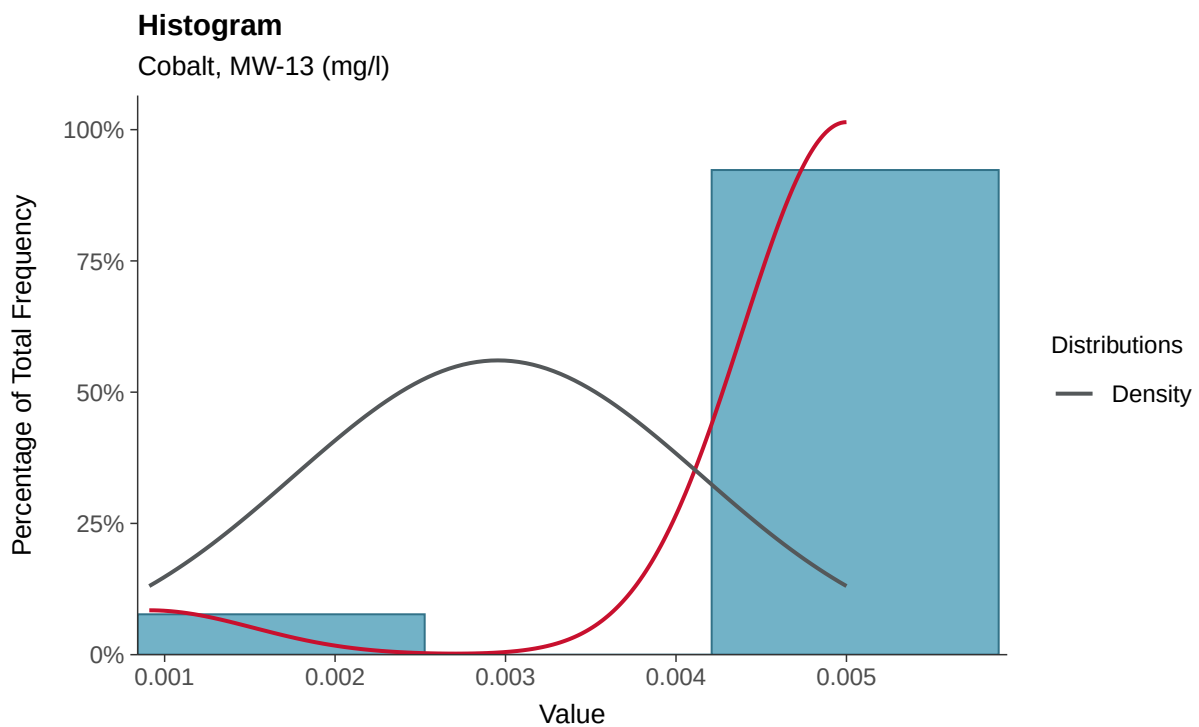


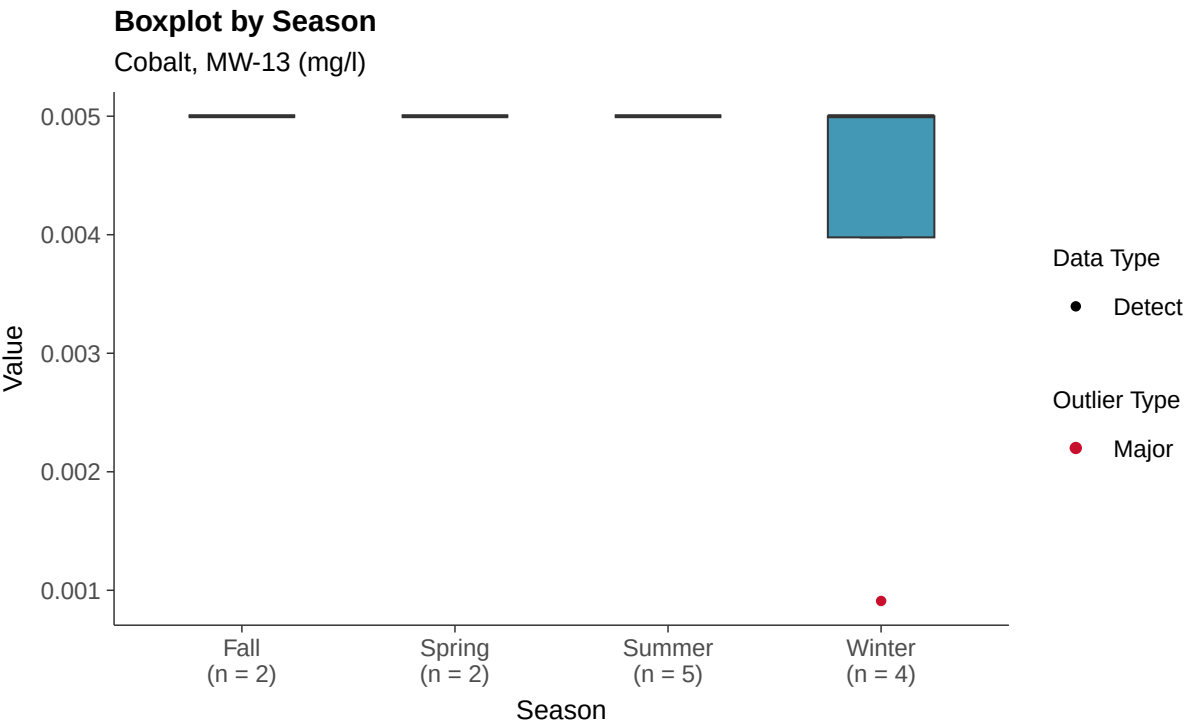
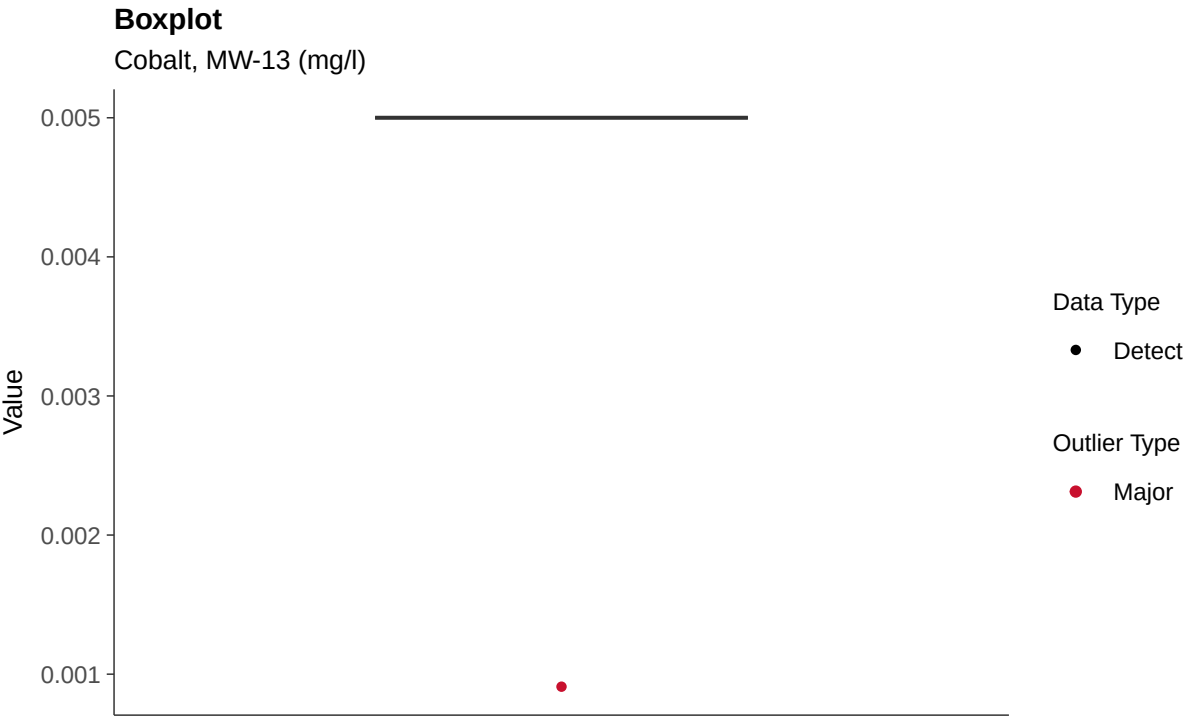
Appendix IV: Chromium, MW-13

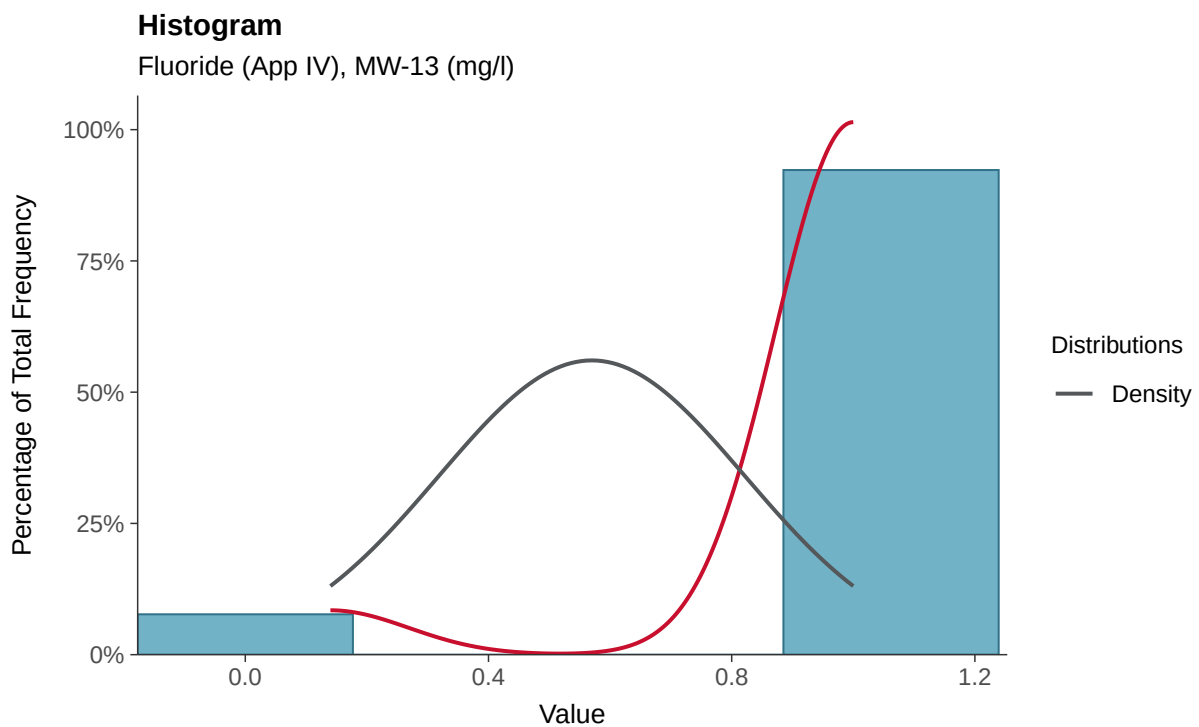
ID: 20_3_109

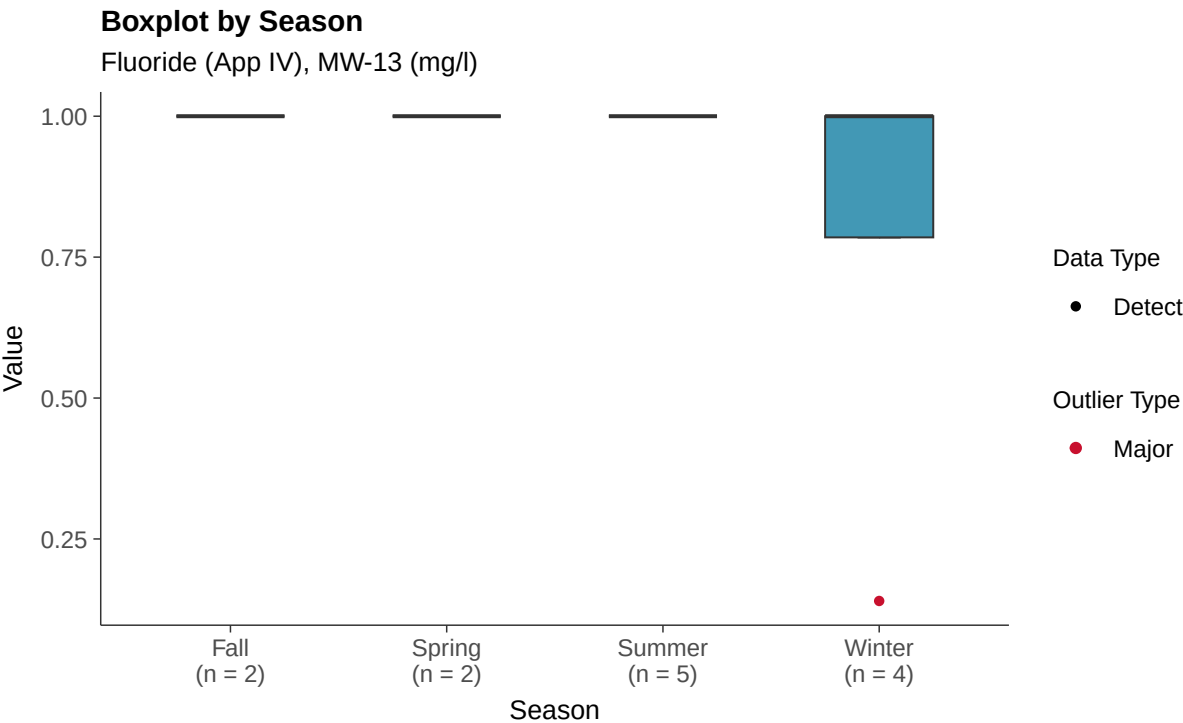
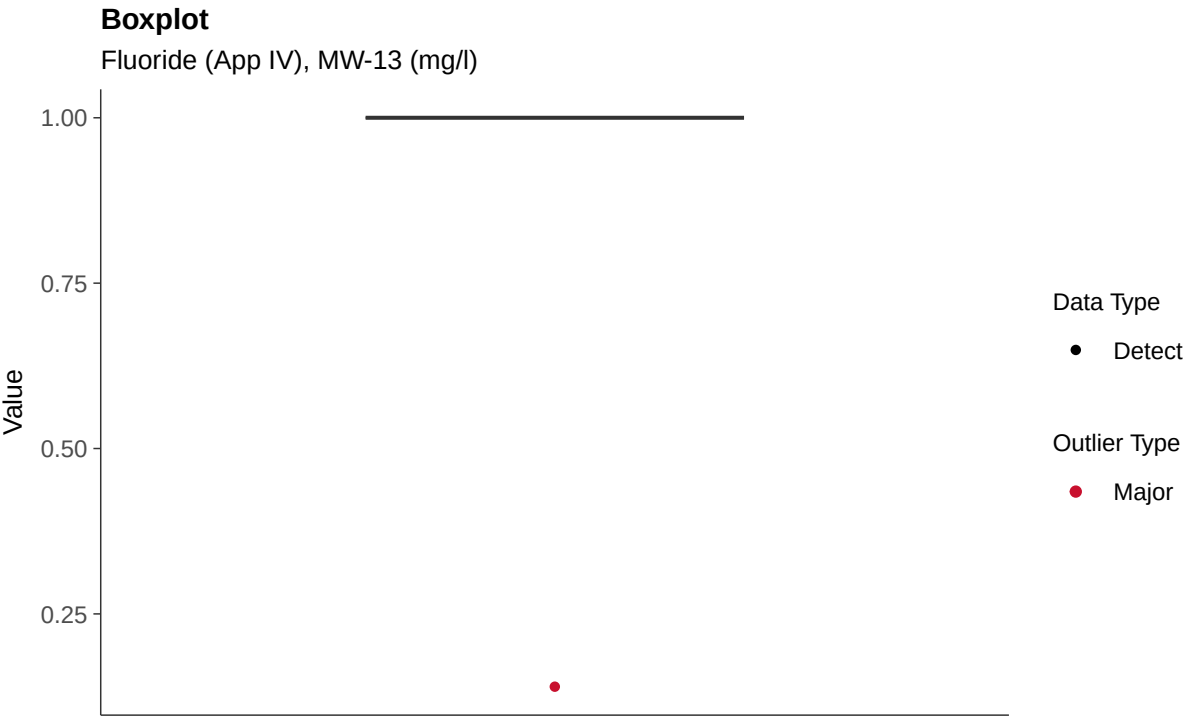








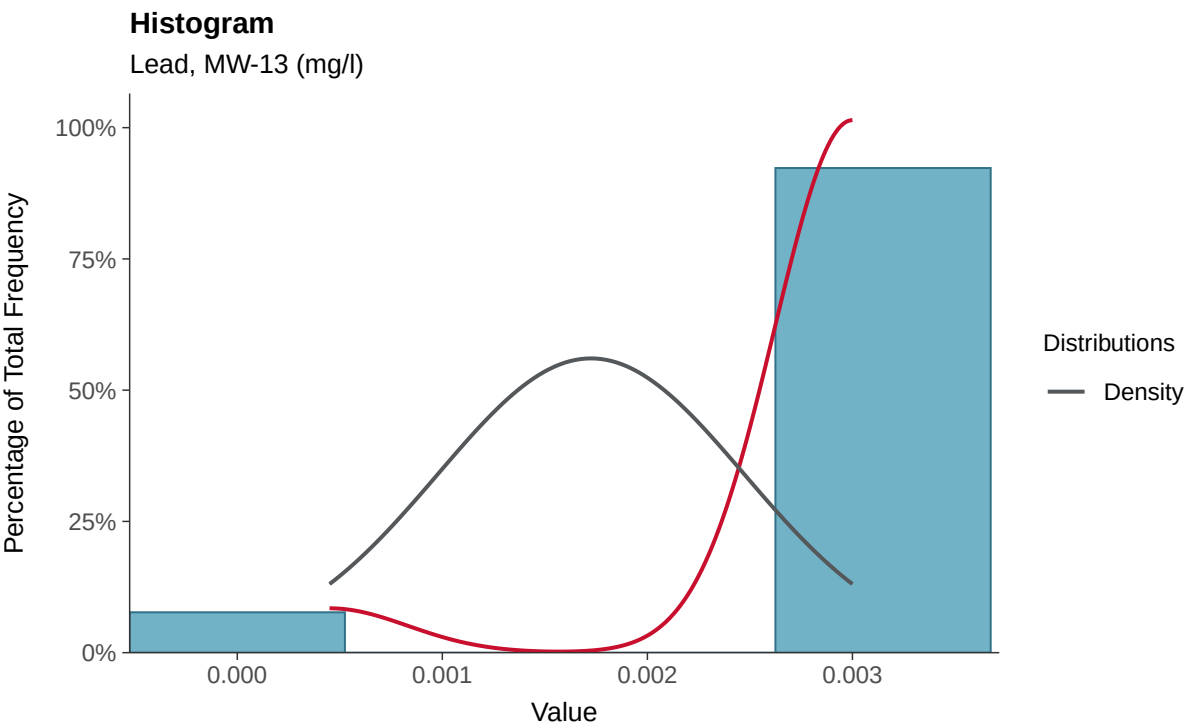
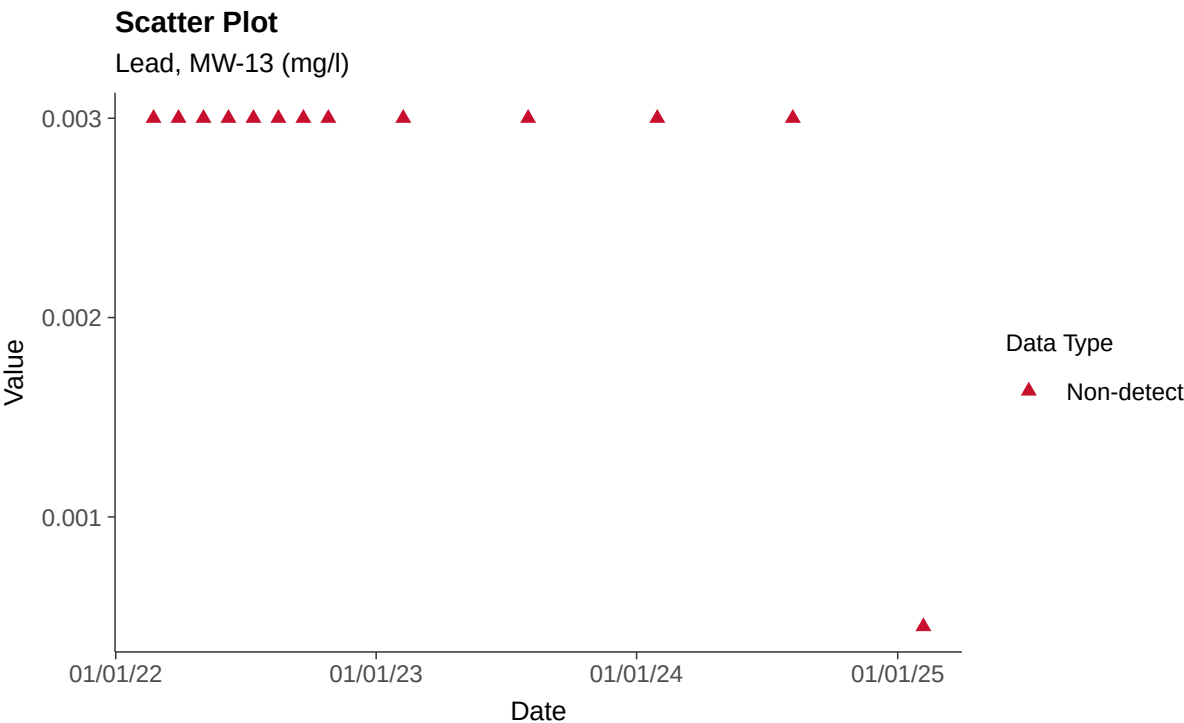


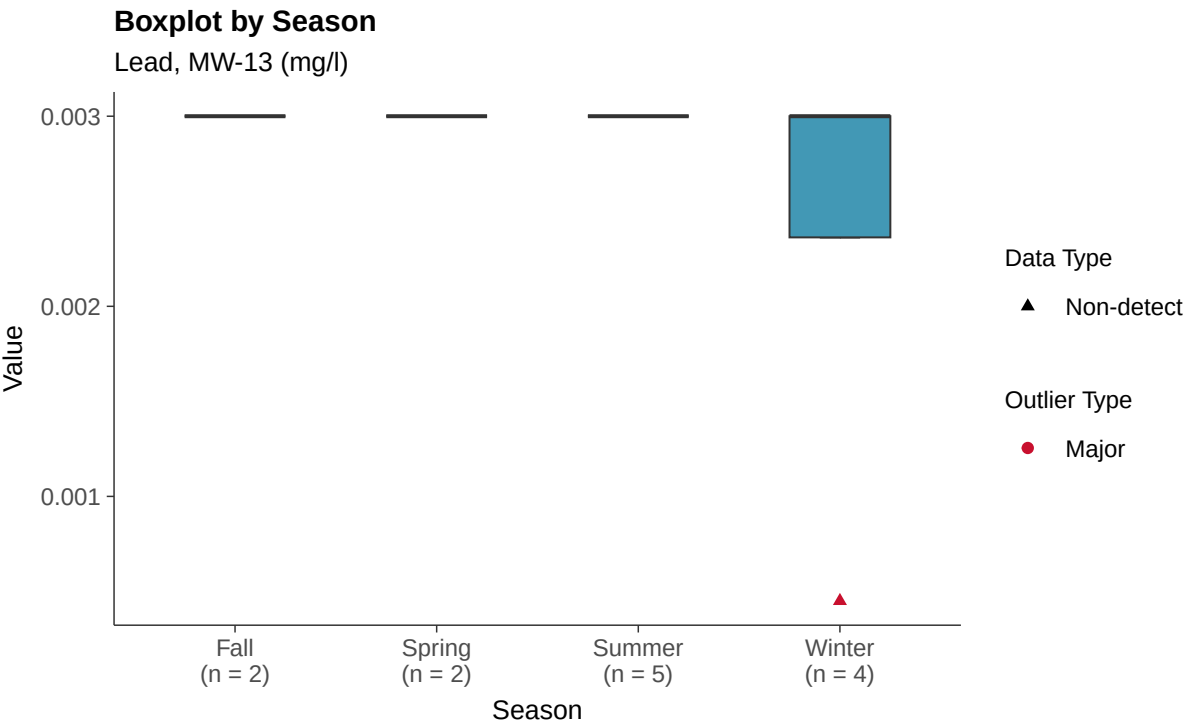
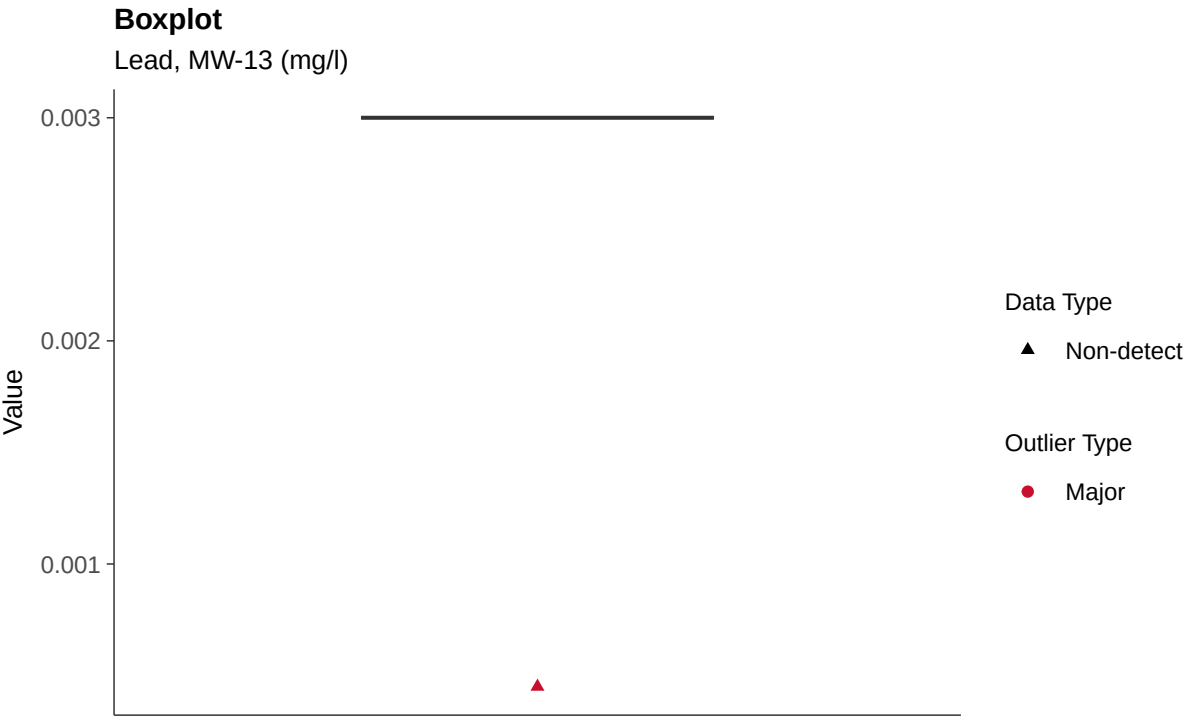




Appendix IV: Lead, MW-13

ID: 20_3_115

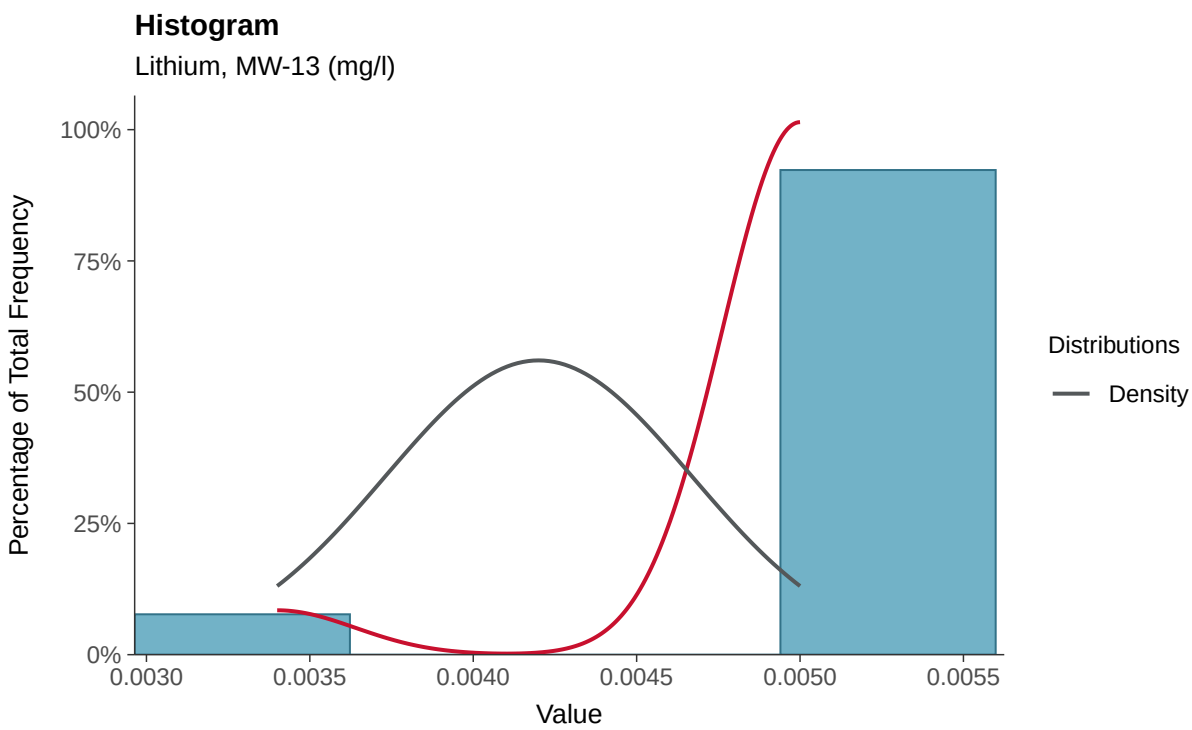
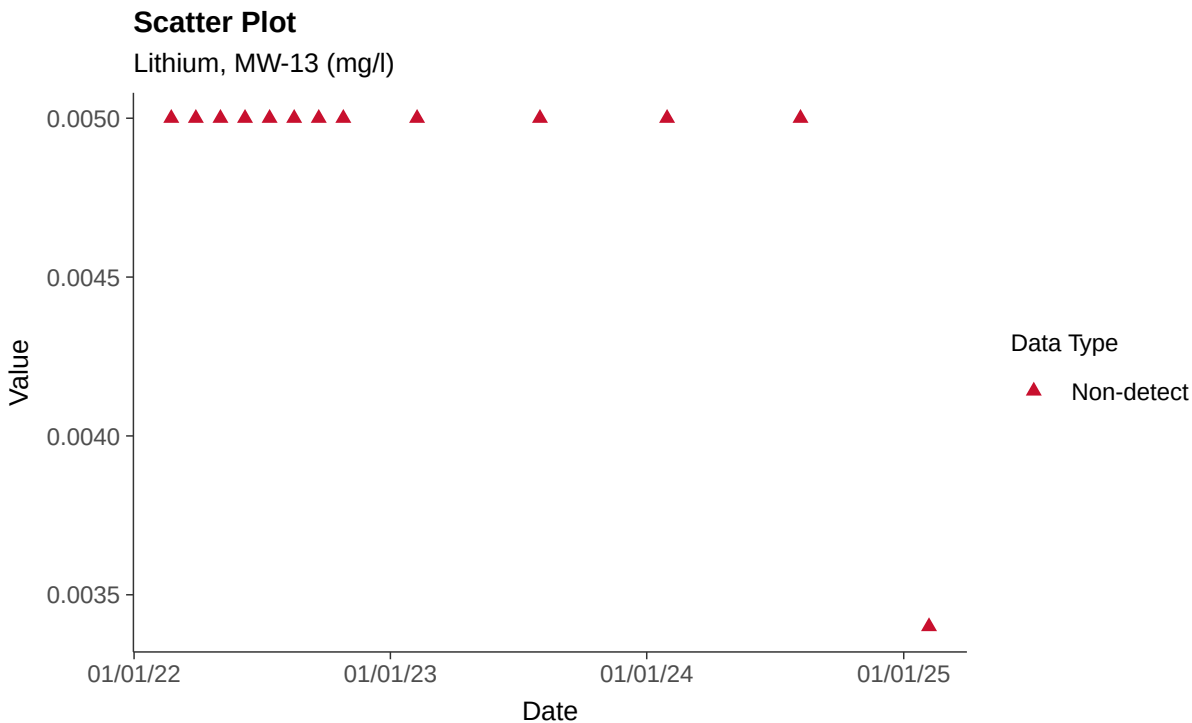


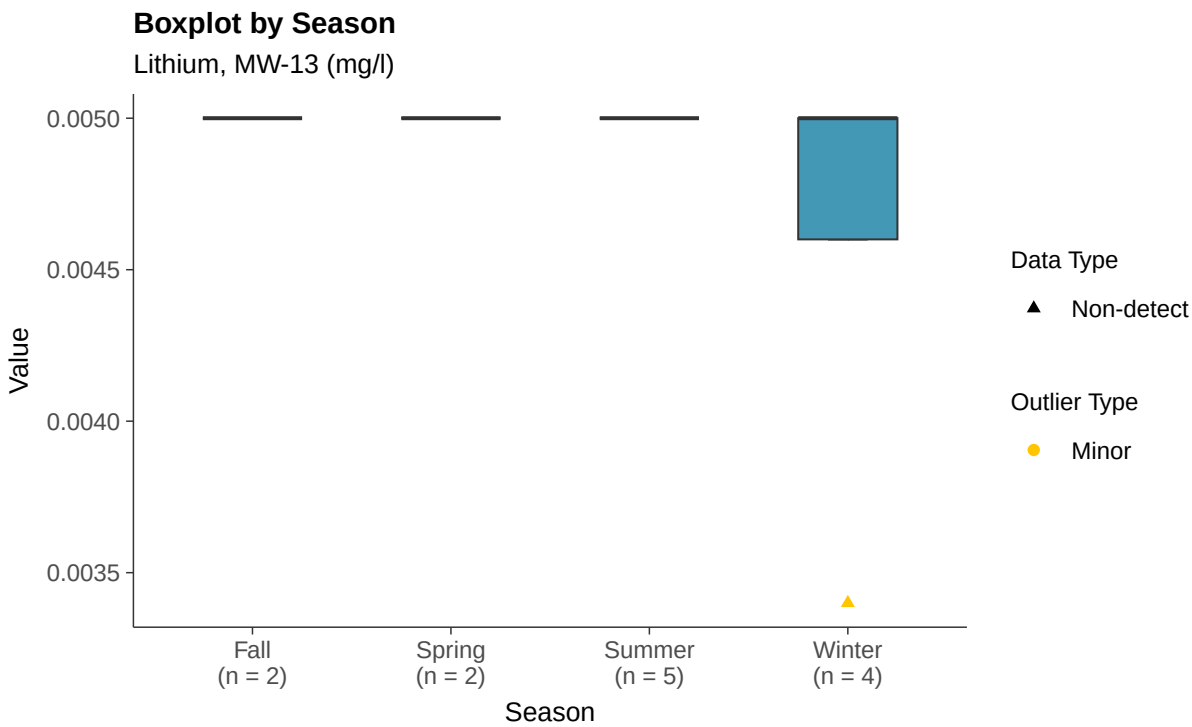
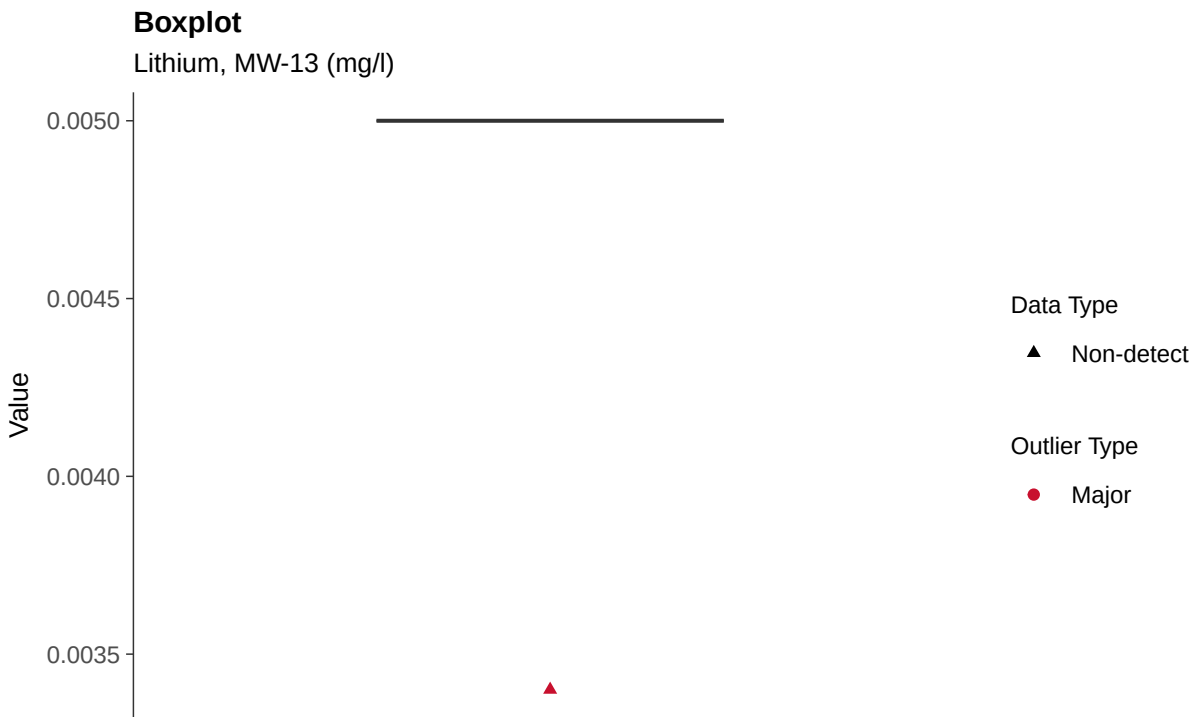




Appendix IV: Lithium, MW-13

ID: 20_3_116

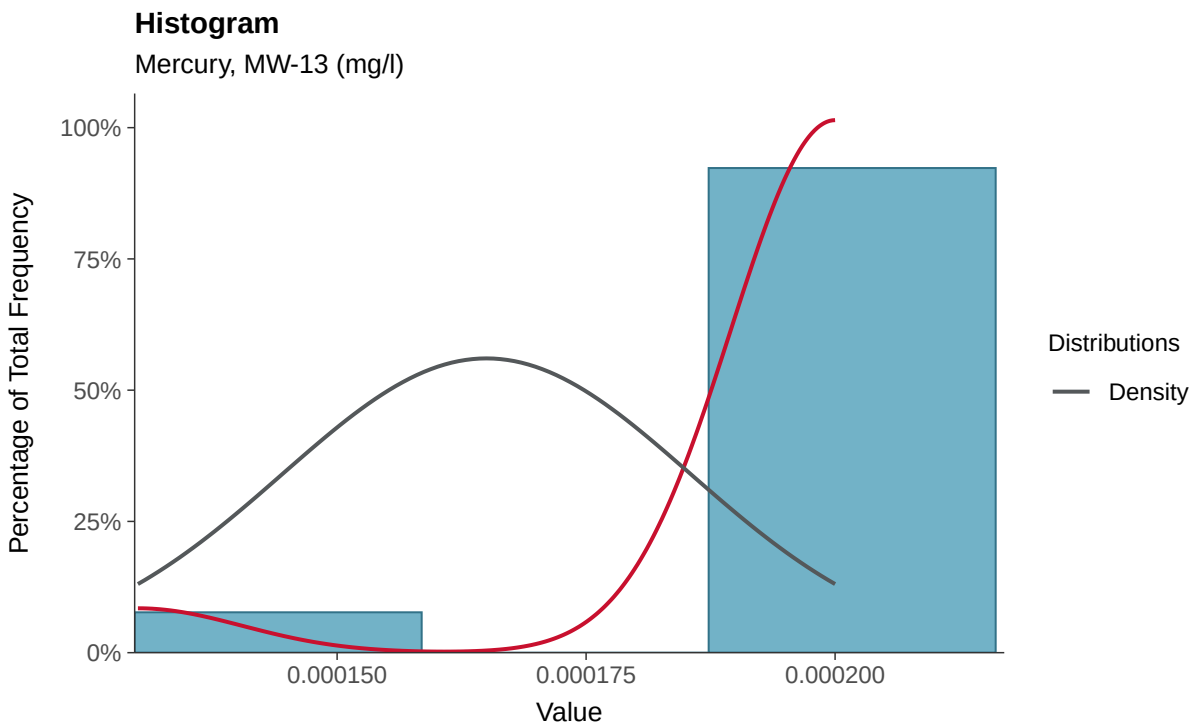
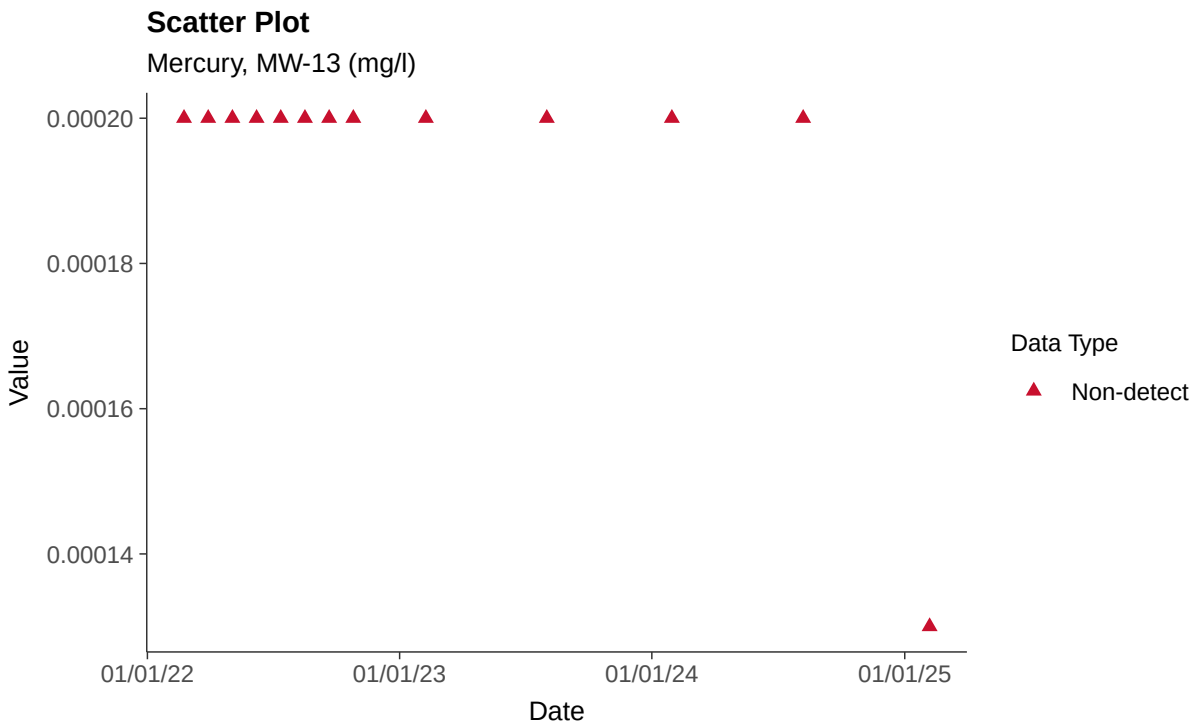


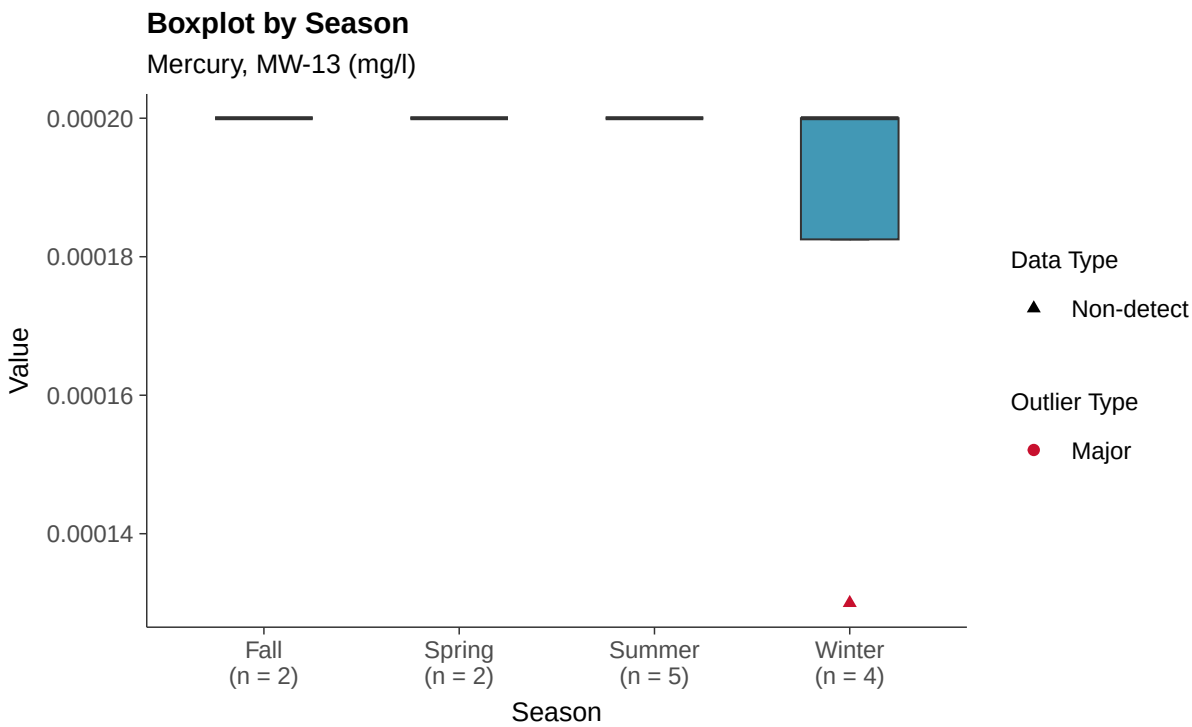
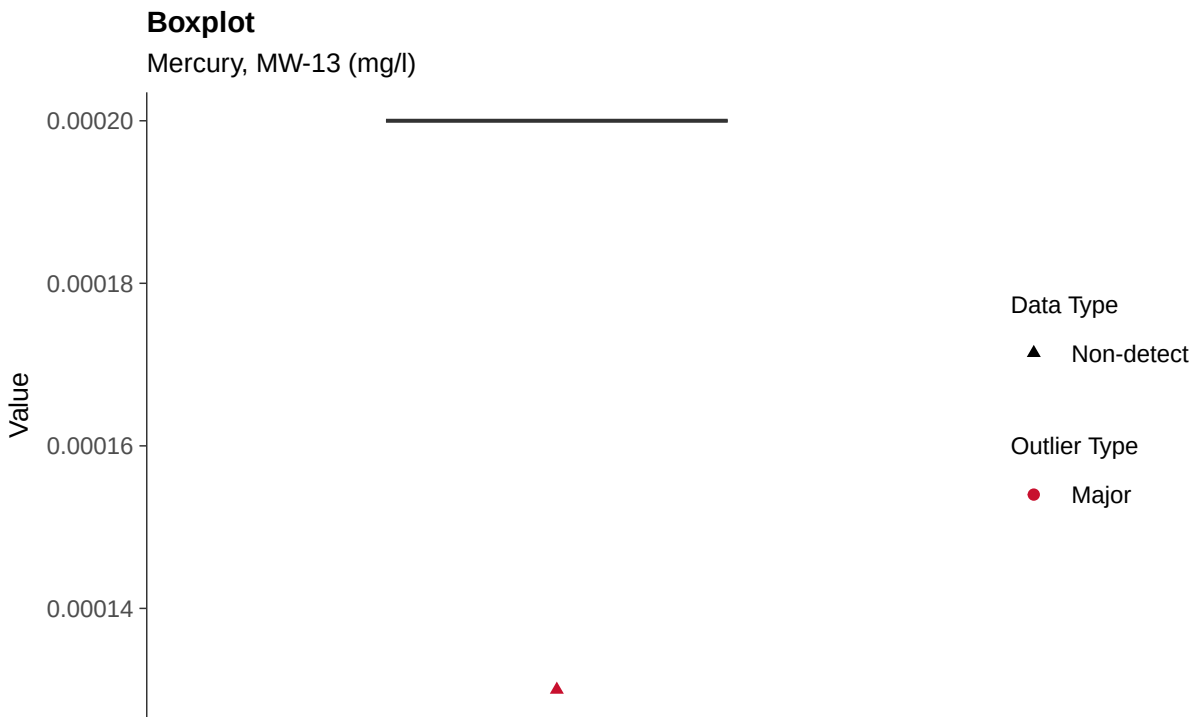




Appendix IV: Mercury, MW-13

ID: 20_3_117

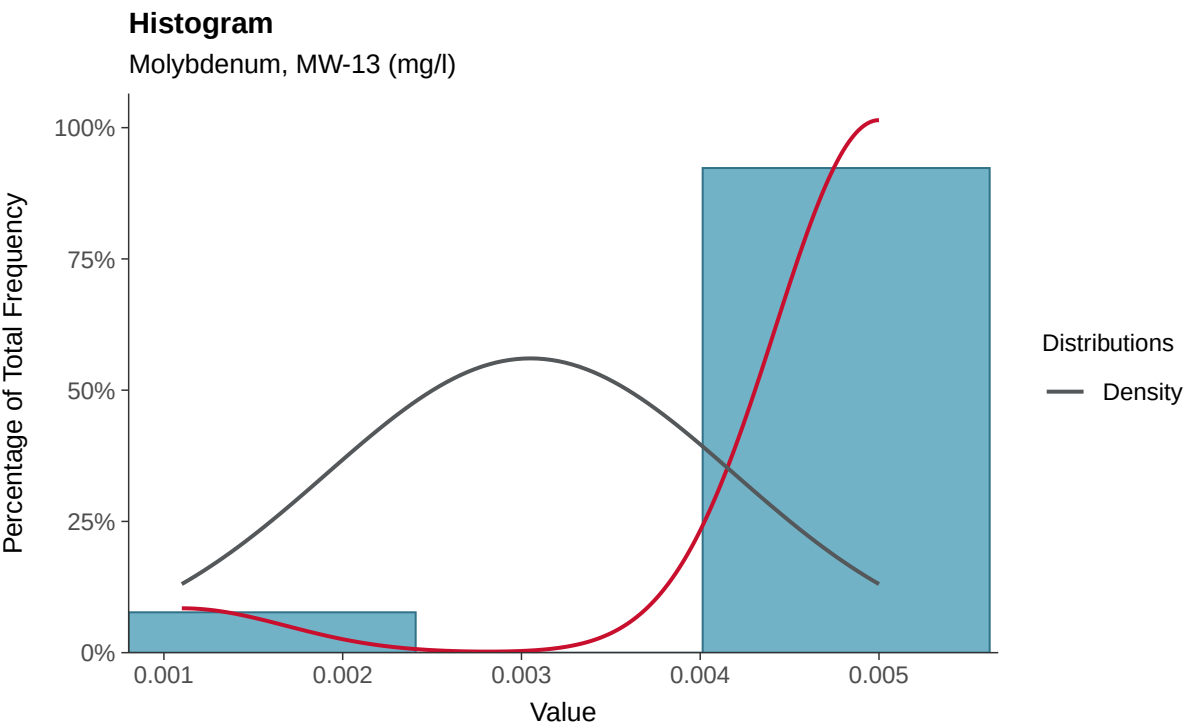
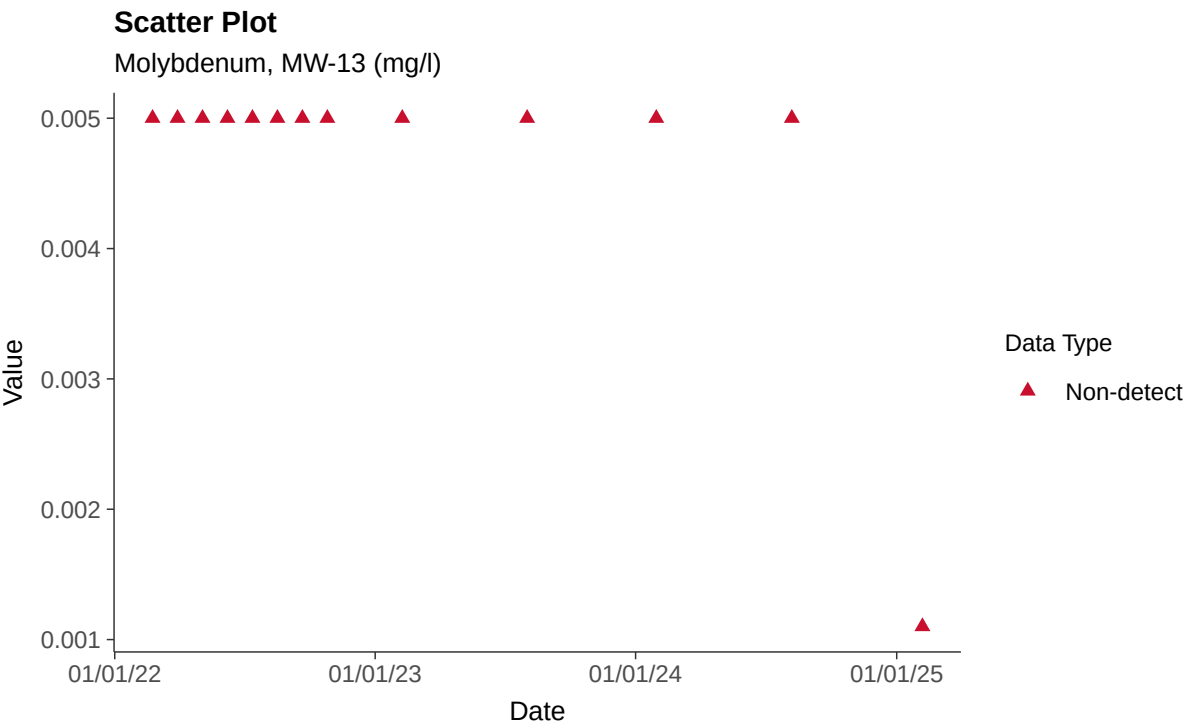


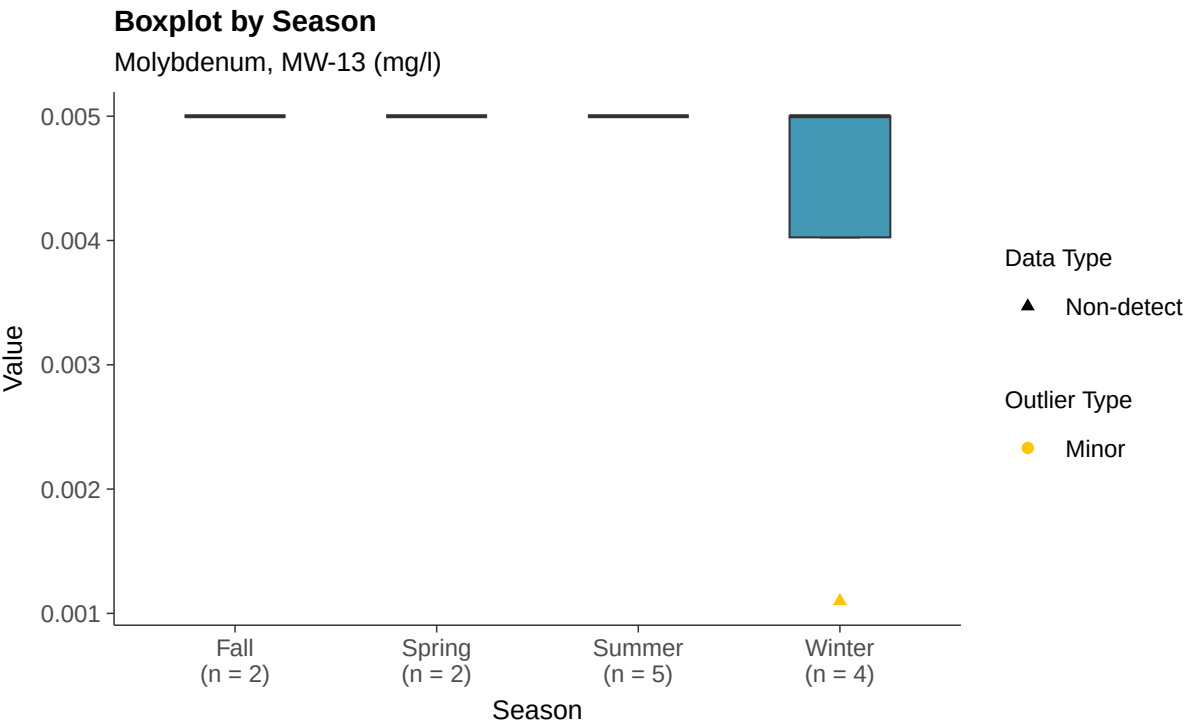
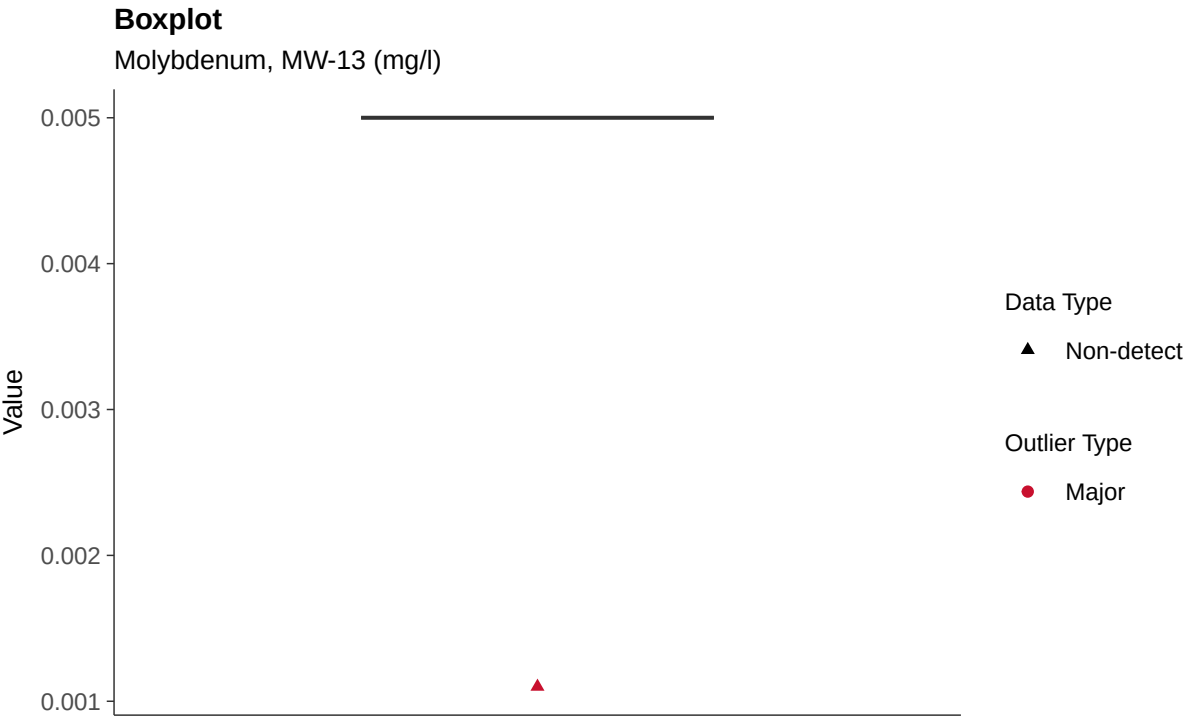




Appendix IV: Molybdenum, MW-13

ID: 20_3_118

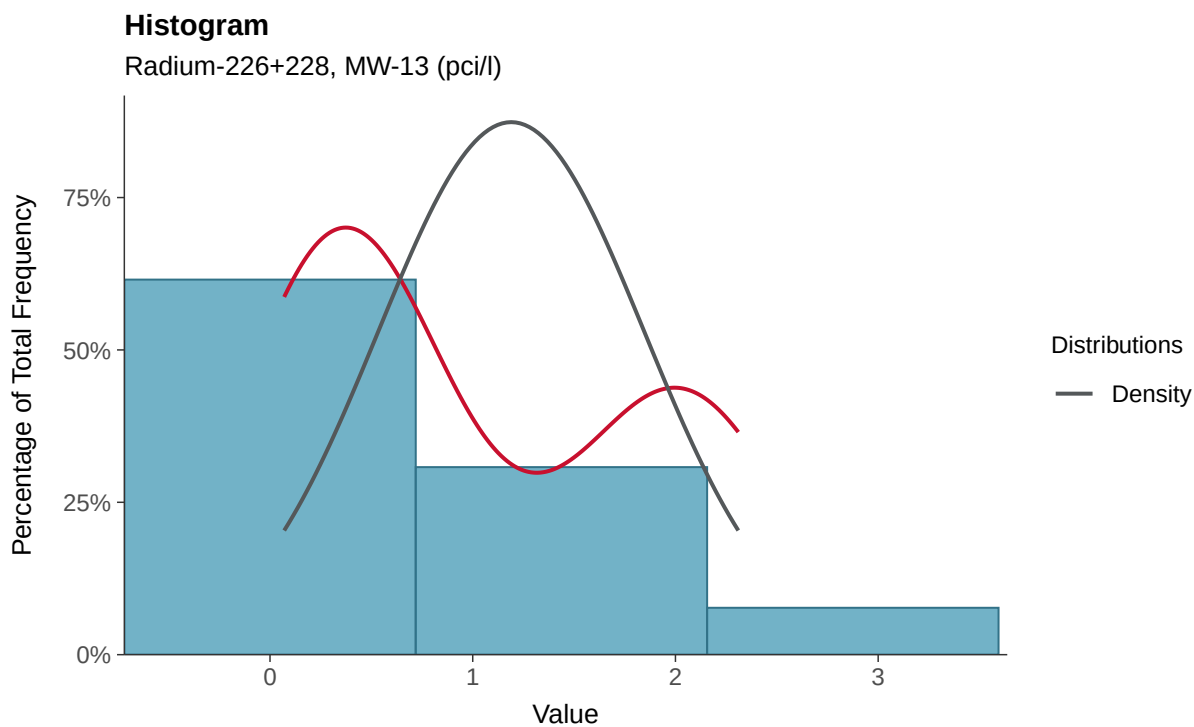
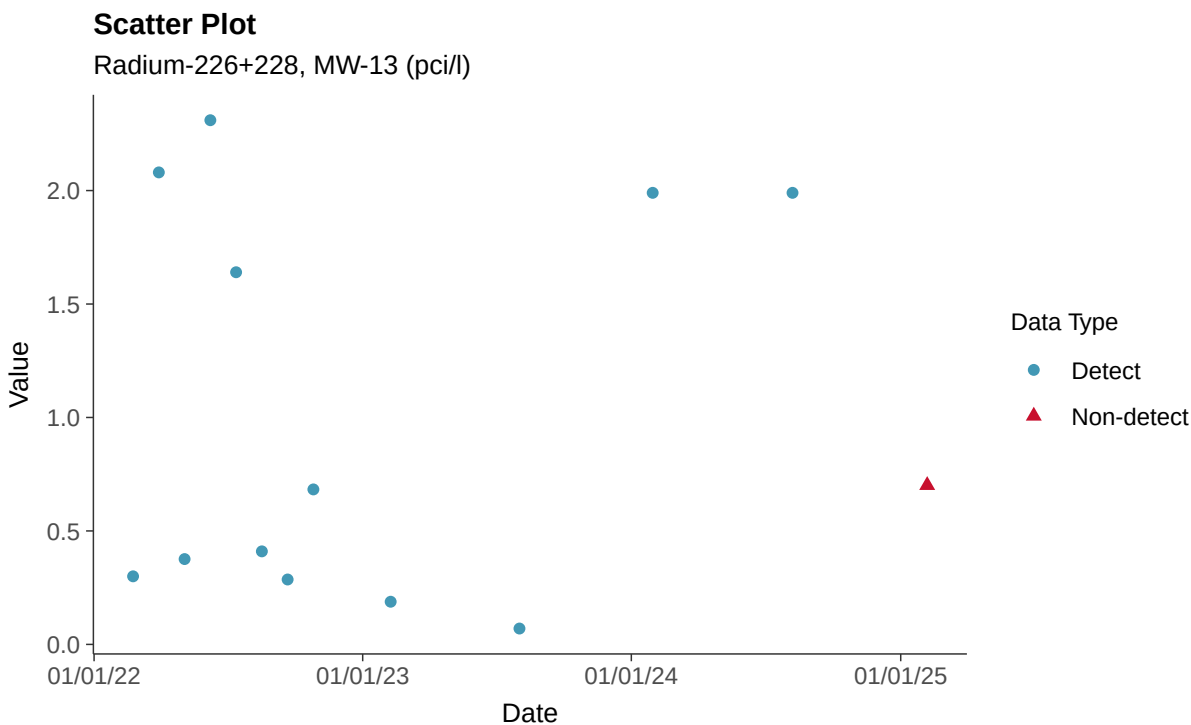






Appendix IV: Radium-226+228, MW-13

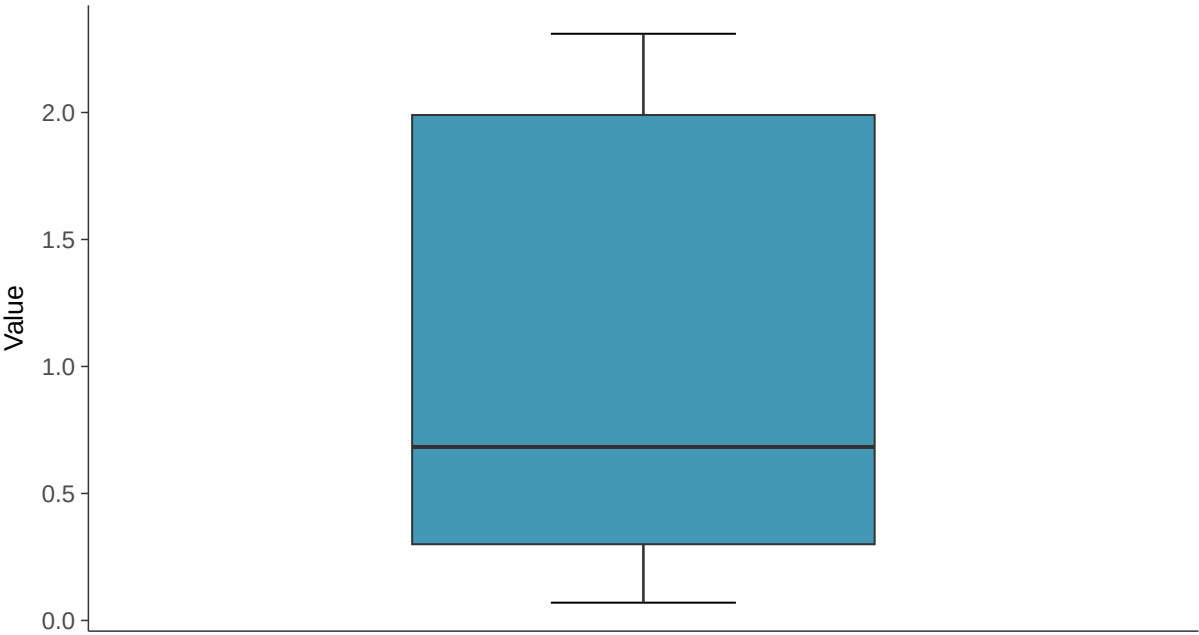
ID: 20_3_121





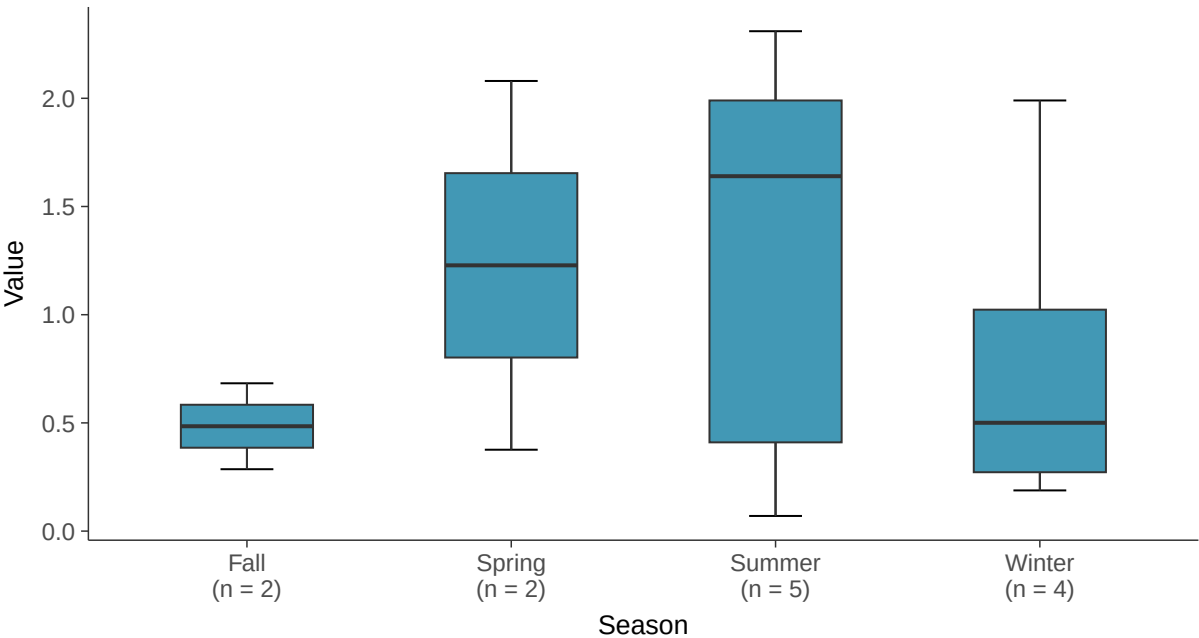
Boxplot

Radium-226+228, MW-13 (pci/l)



Boxplot by Season

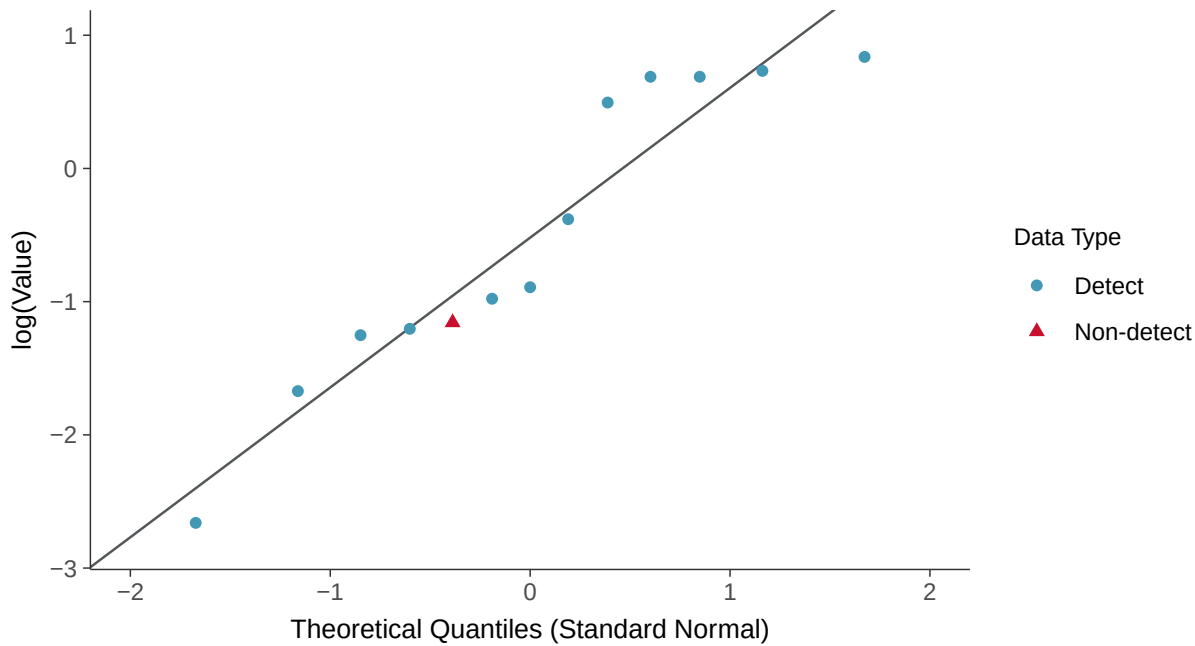
Radium-226+228, MW-13 (pci/l)





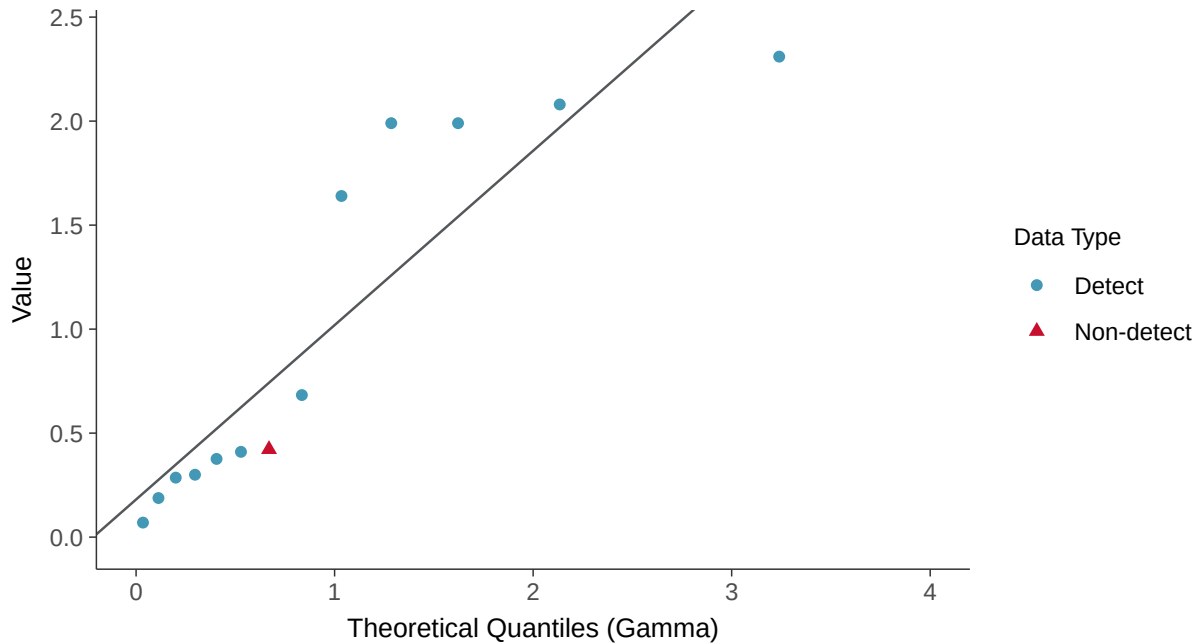
Lognormal Q-Q plot using ROS Imputed Estimates

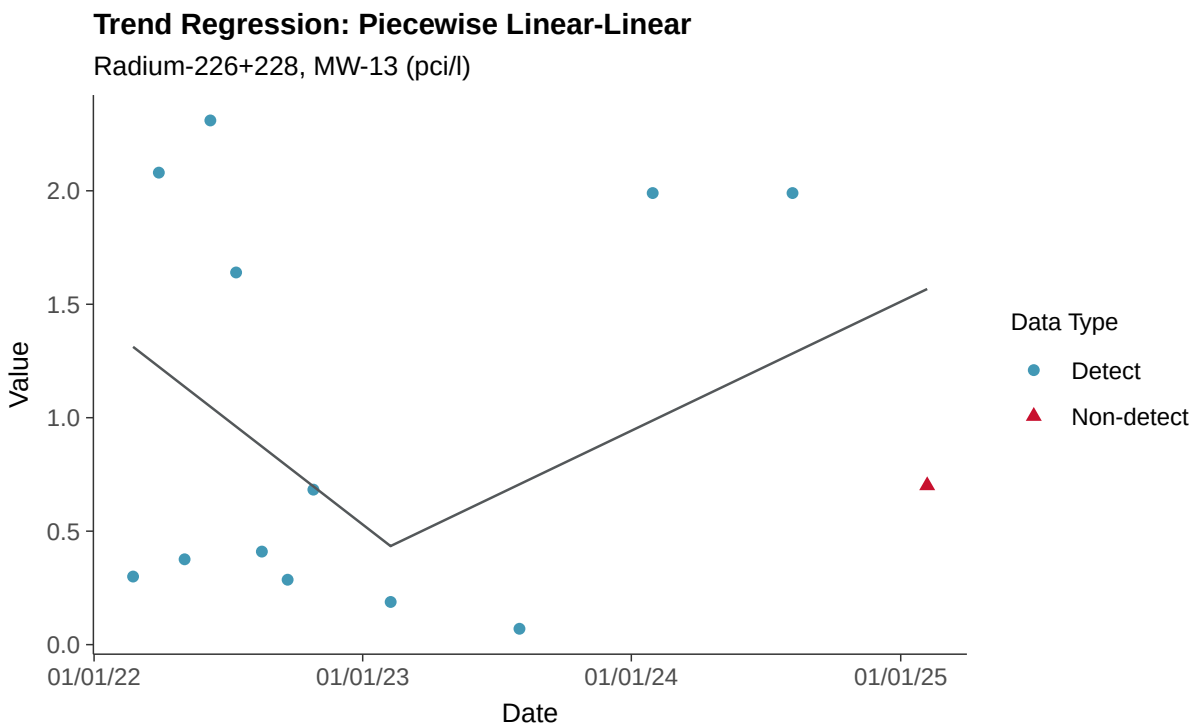
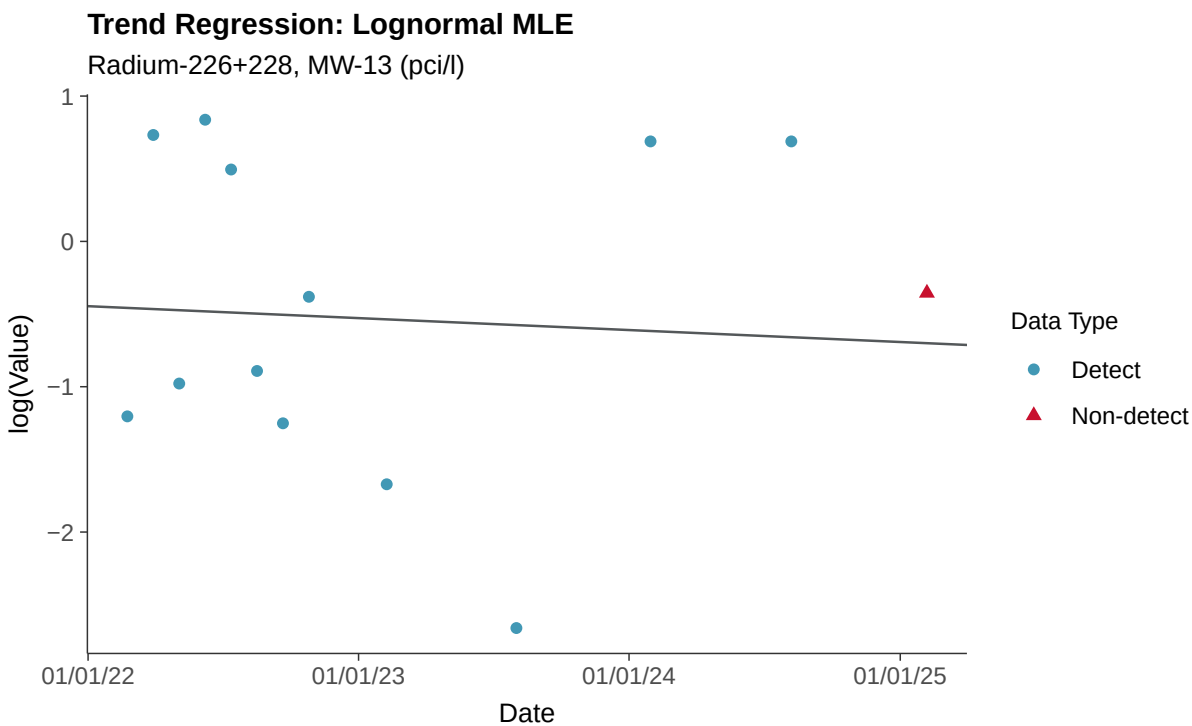
Radium-226+228, MW-13 (pci/l)



Gamma Q-Q plot using ROS Imputed Estimates

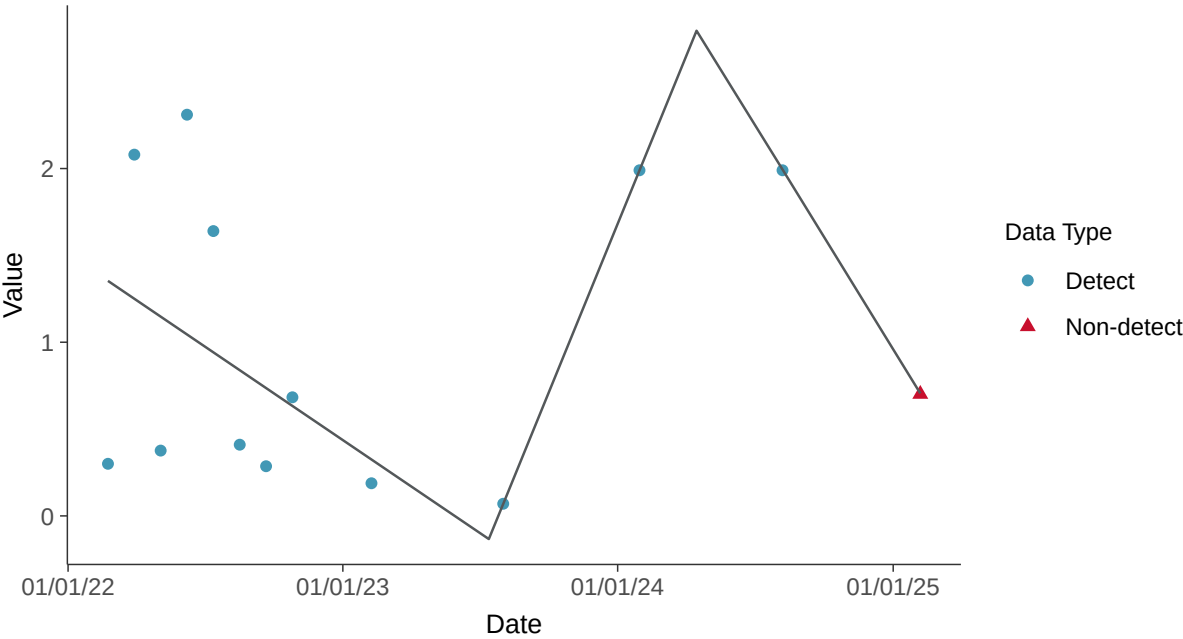
Radium-226+228, MW-13 (pci/l)







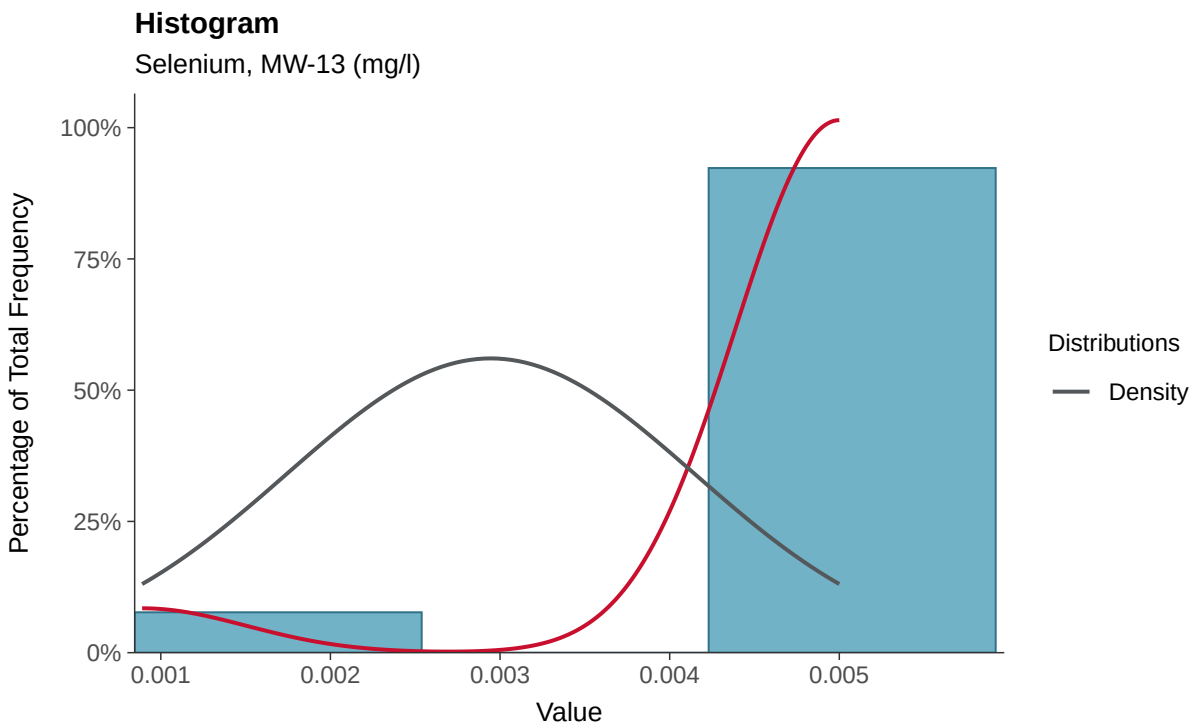
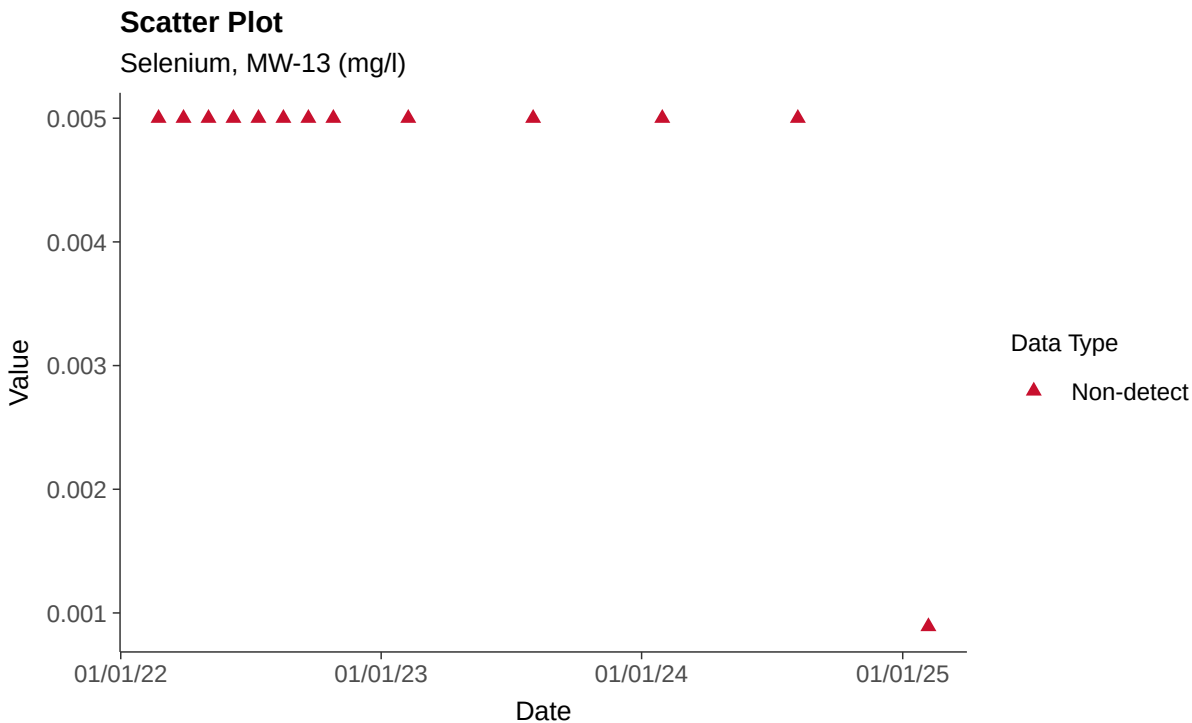
Trend Regression: Piecewise Linear-Linear-Linear
Radium-226+228, MW-13 (pci/l)

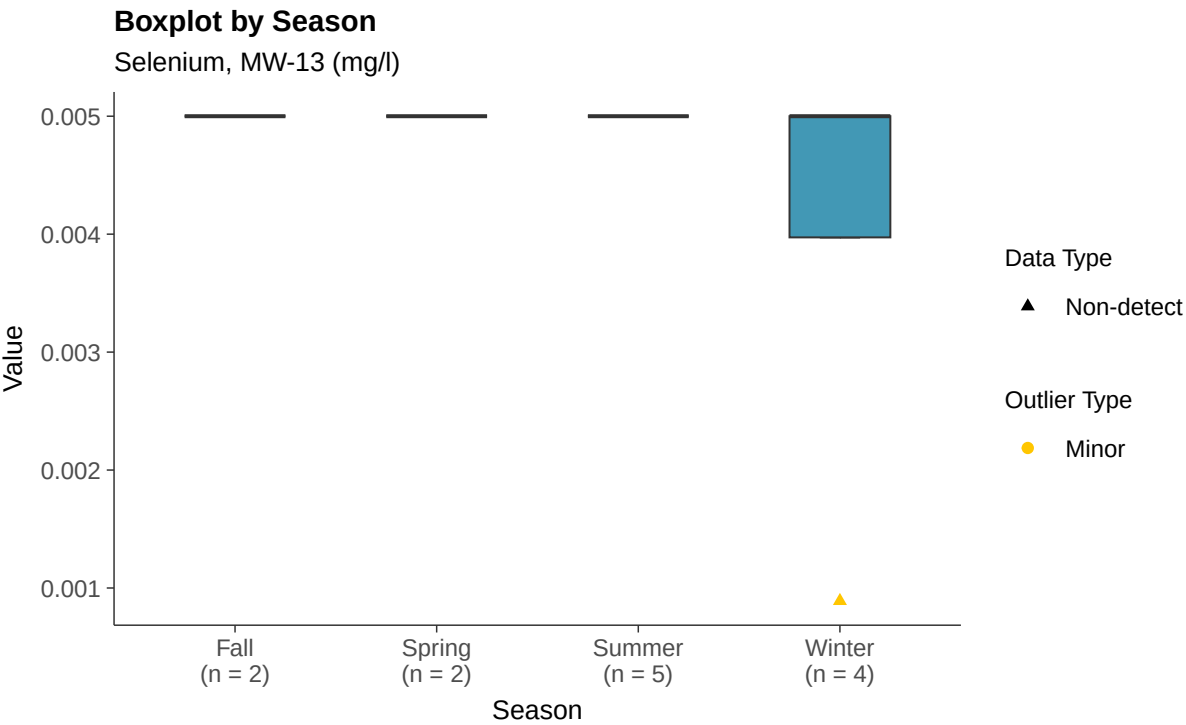
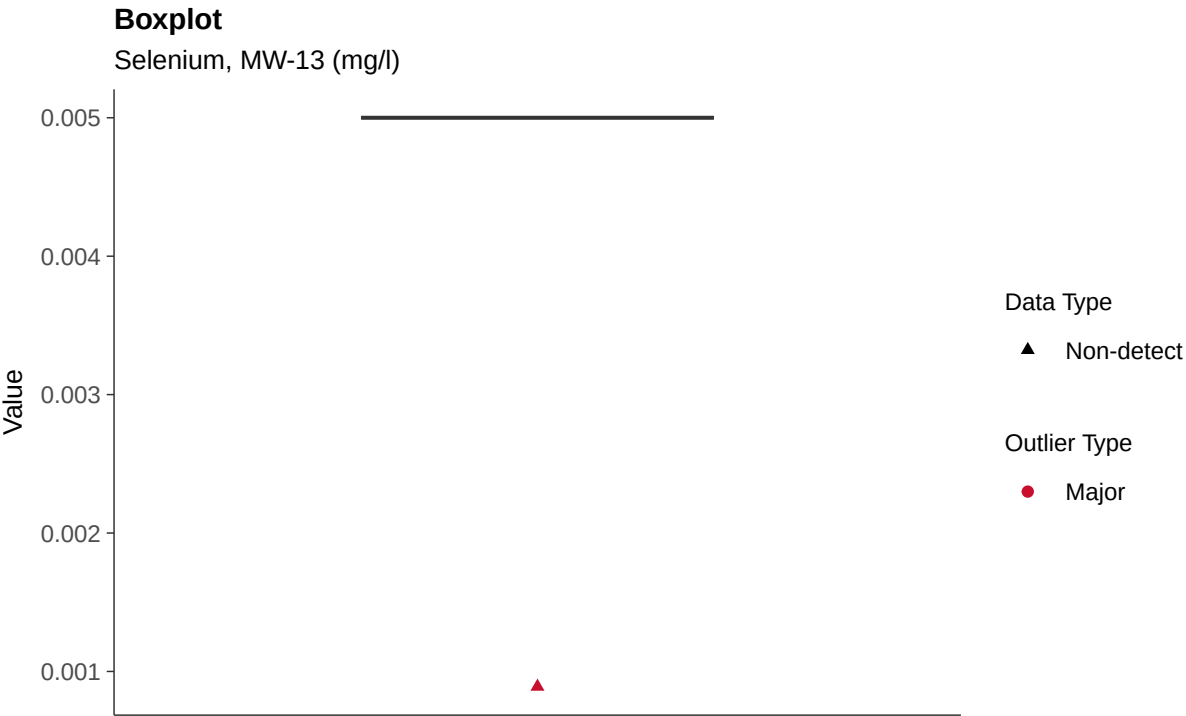




Appendix IV: Selenium, MW-13

ID: 20_3_122

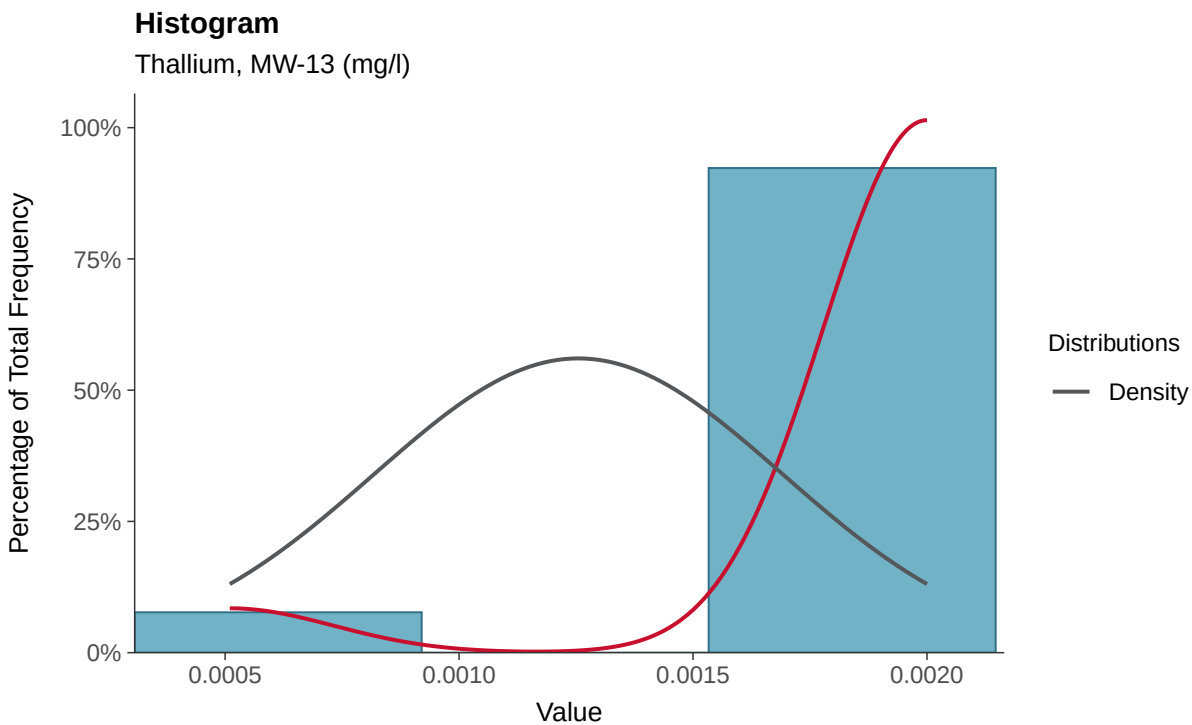
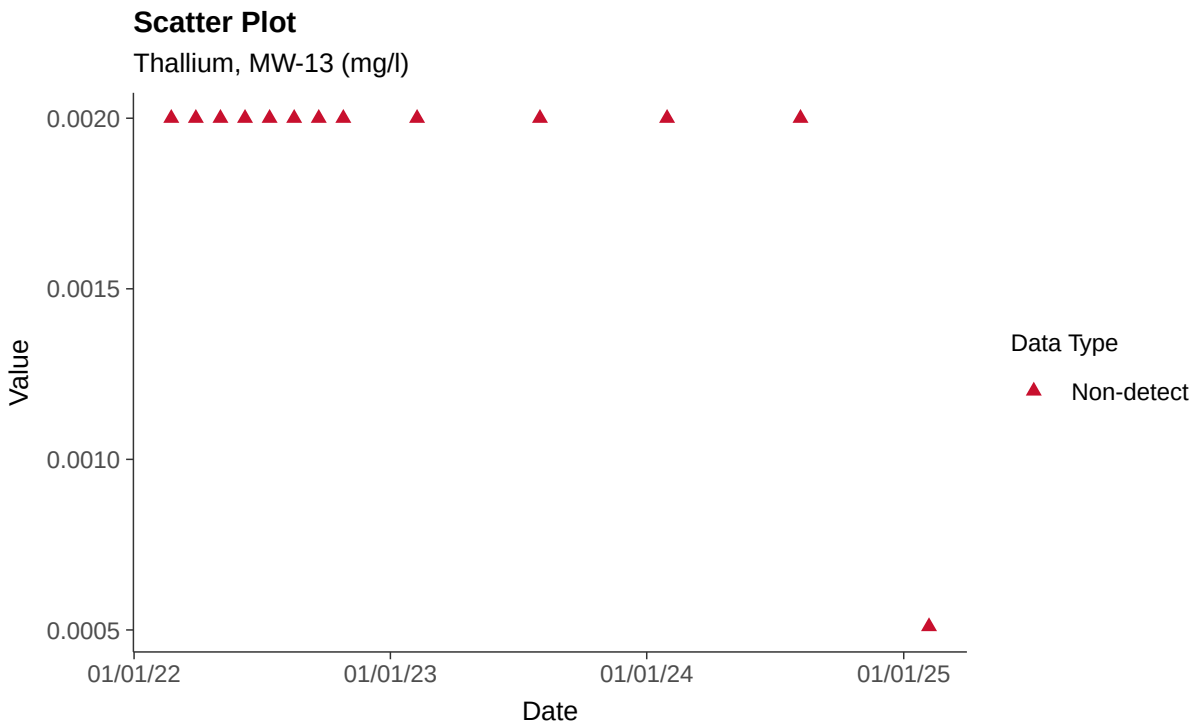


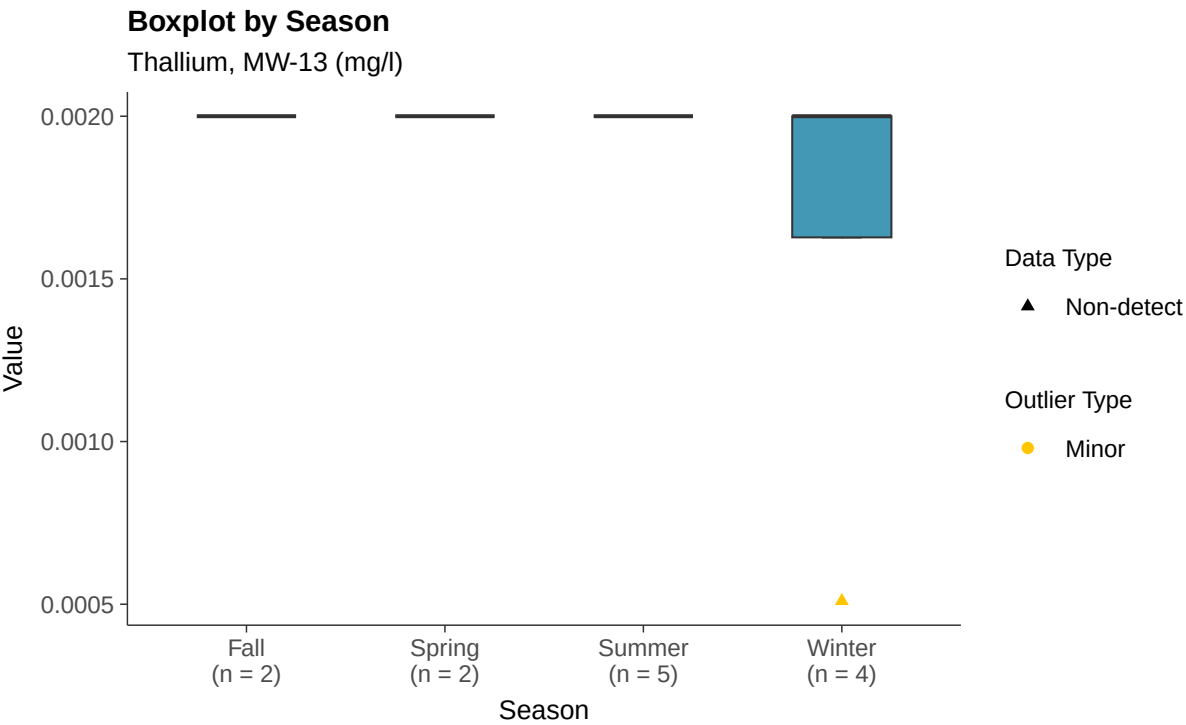
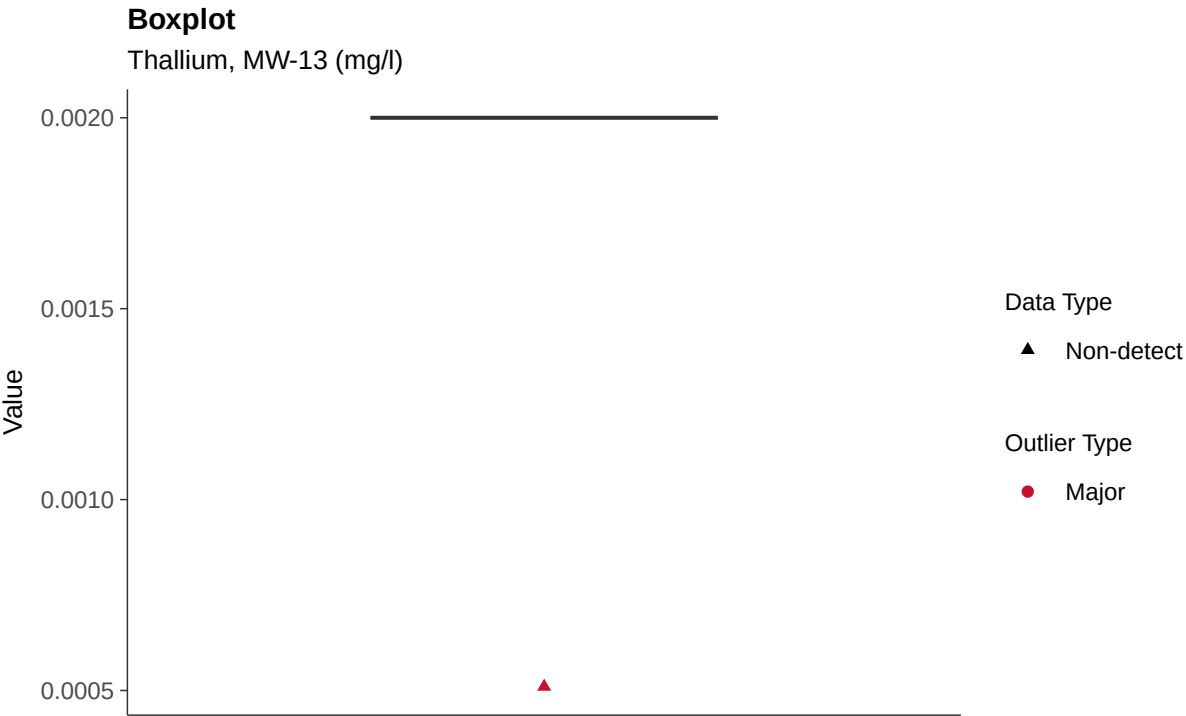




Appendix IV: Thallium, MW-13

ID: 20_3_125

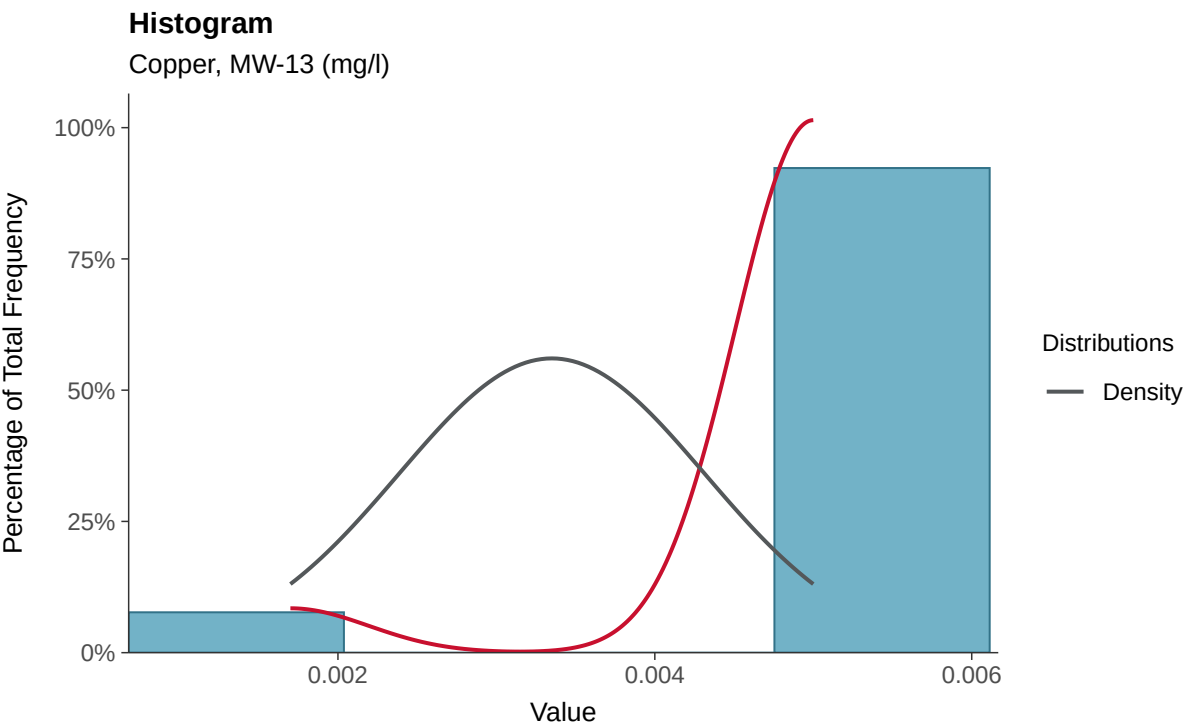
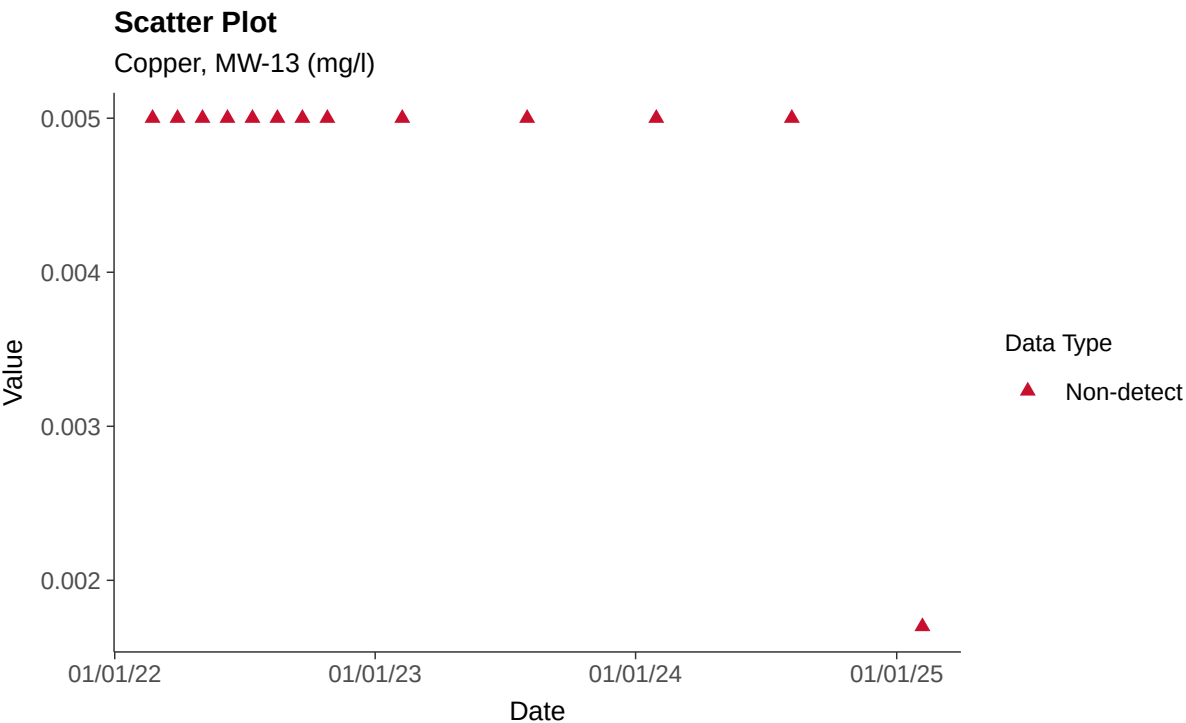


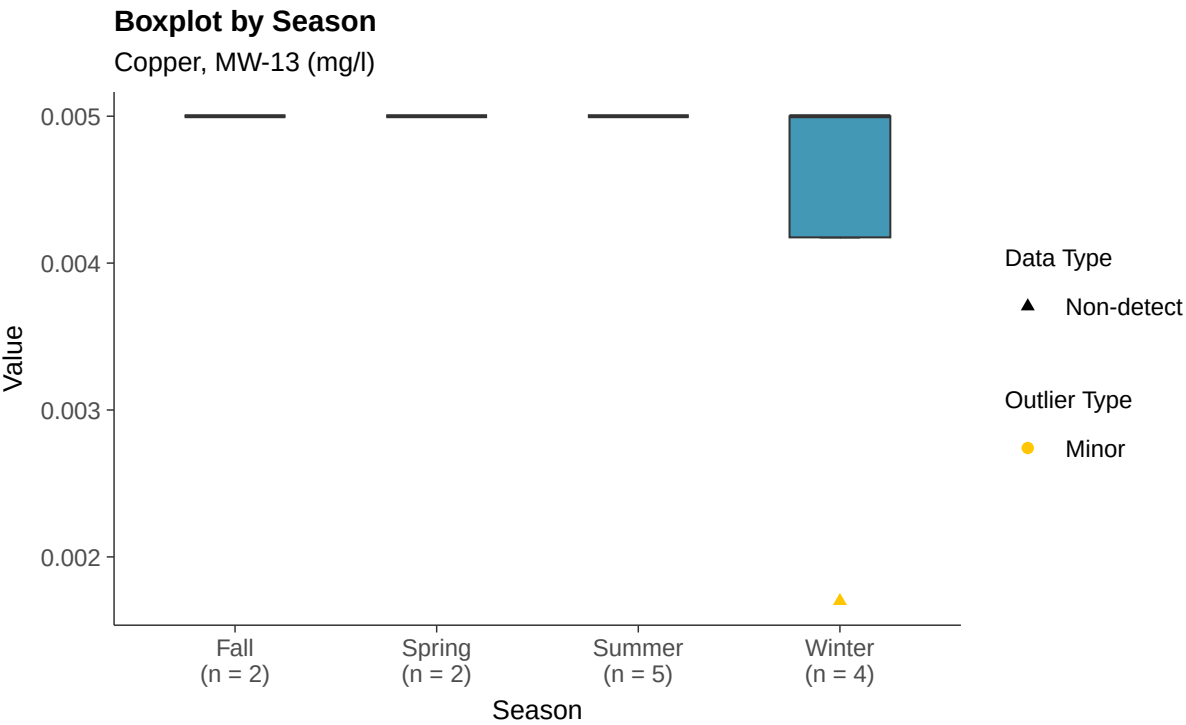
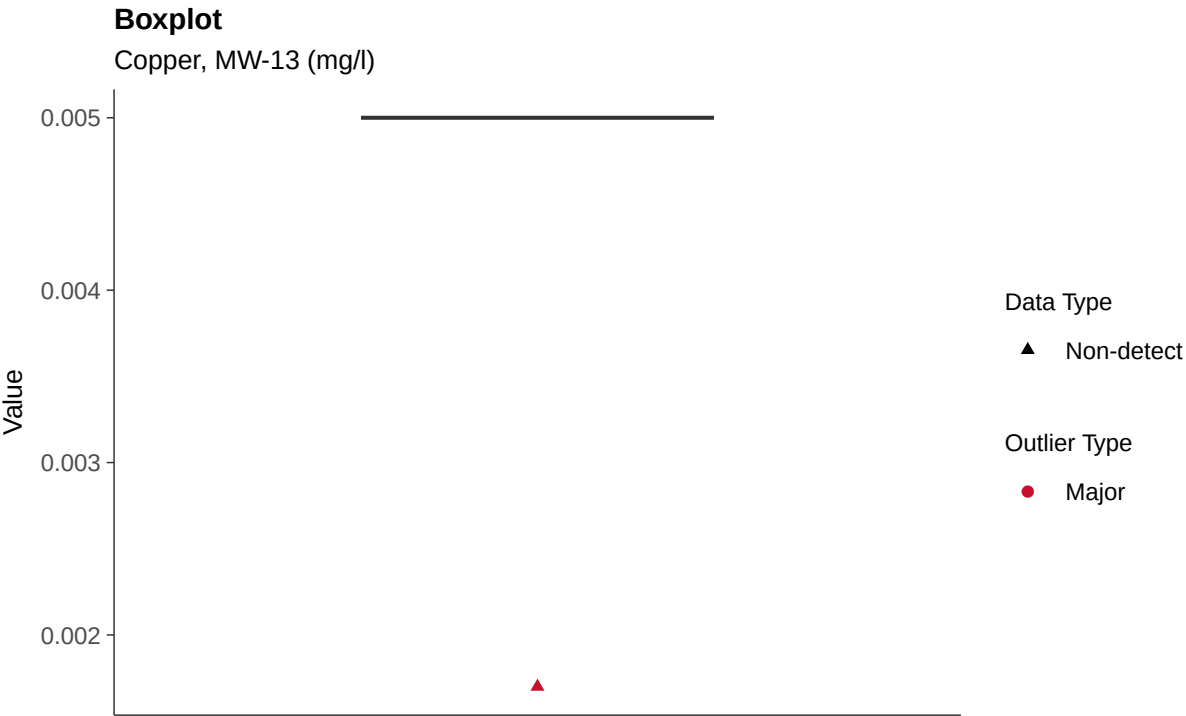




Part 115: Copper, MW-13

ID: 20_5_111

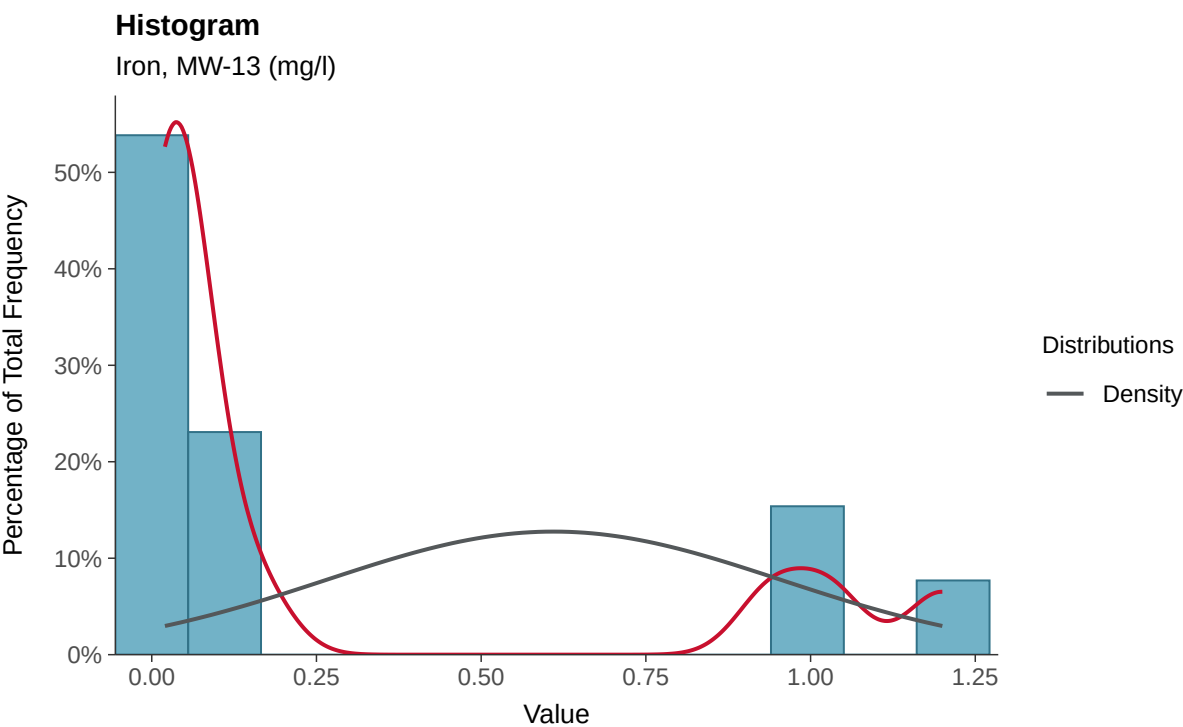
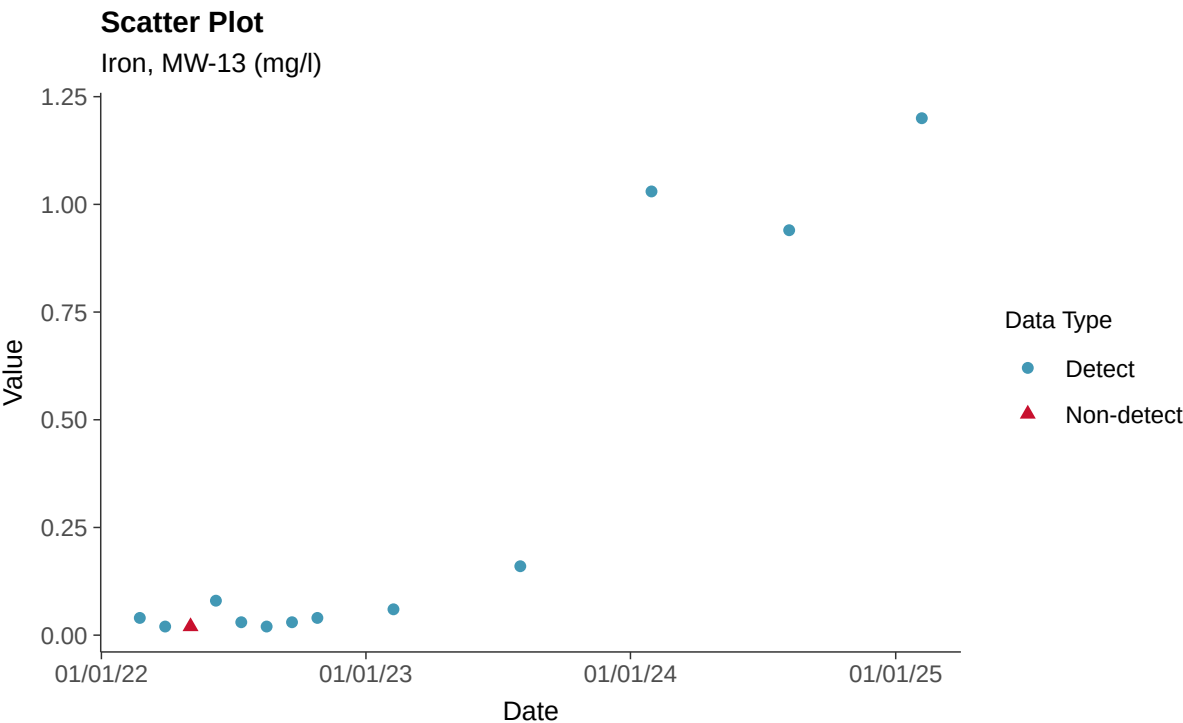


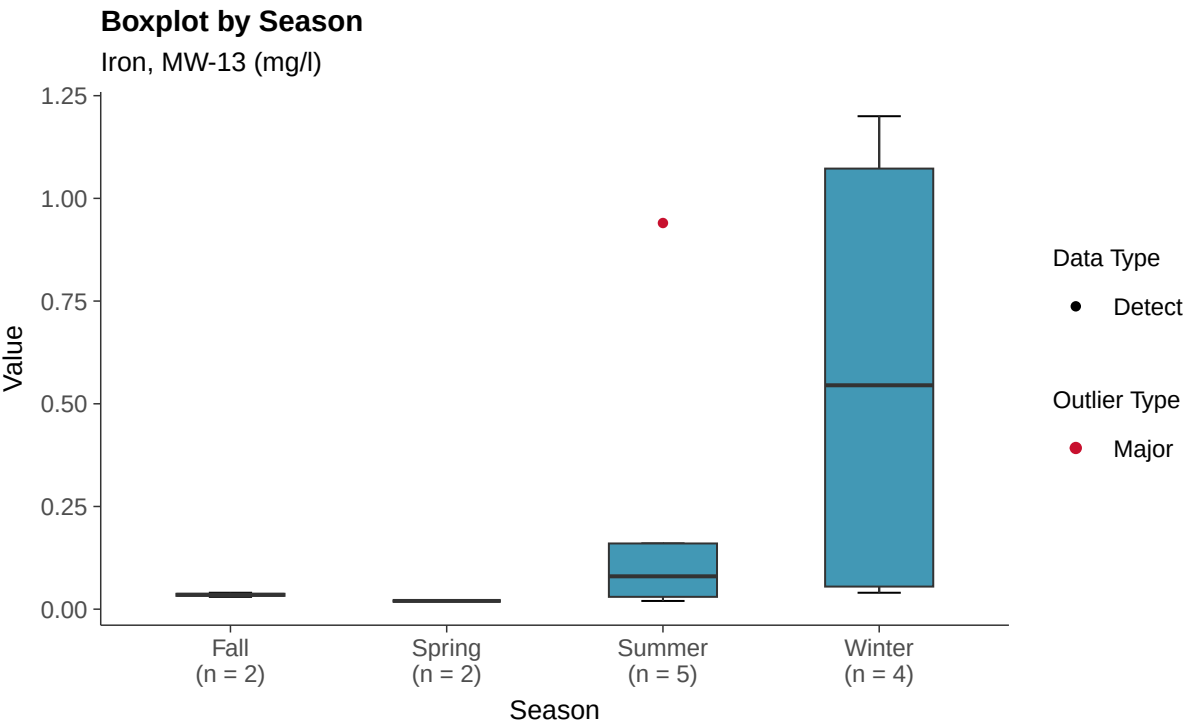
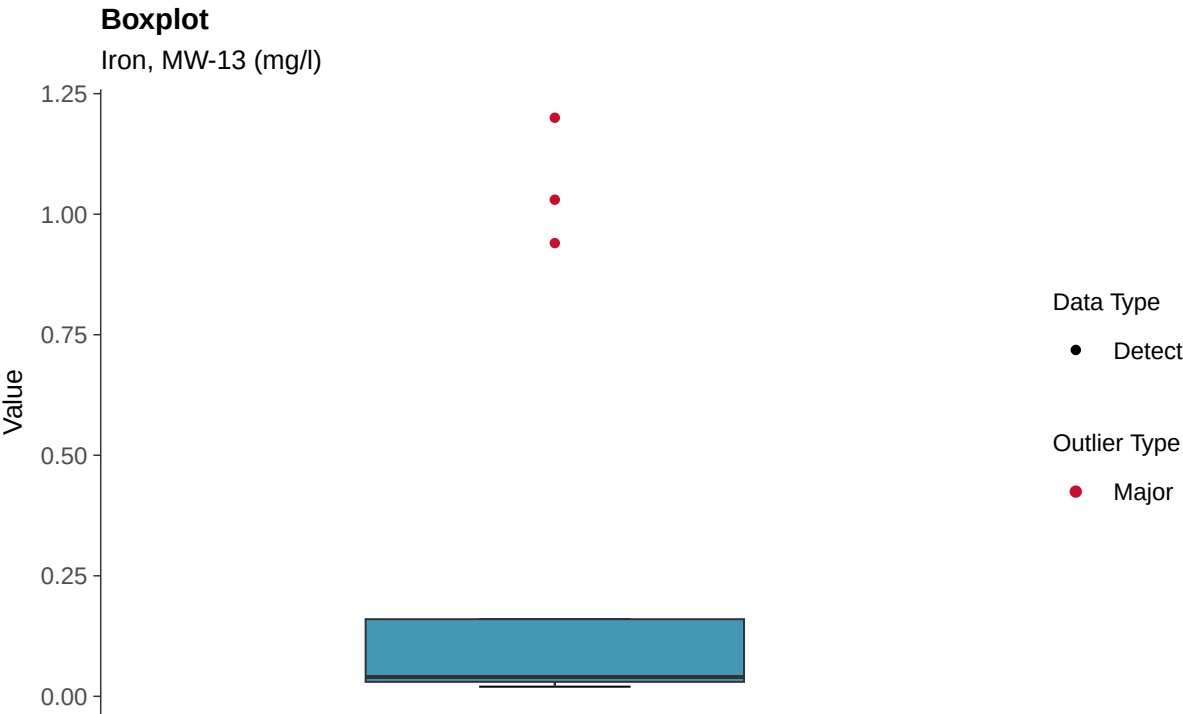




Part 115: Iron, MW-13

ID: 20_5_114

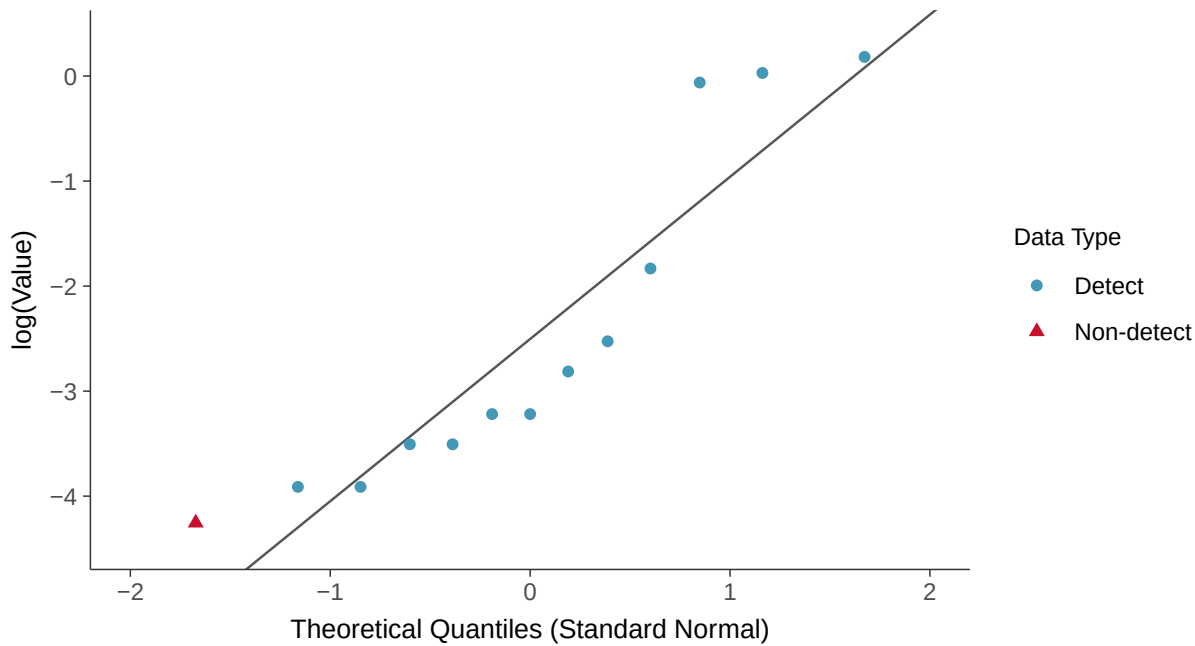






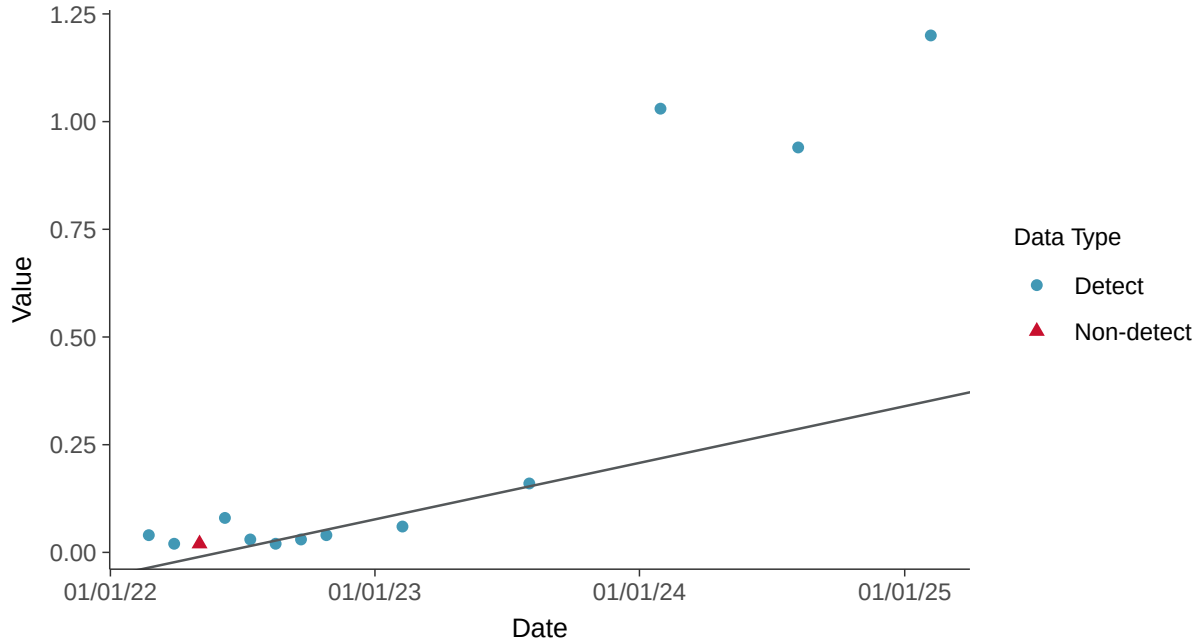
Lognormal Q-Q plot using ROS Imputed Estimates

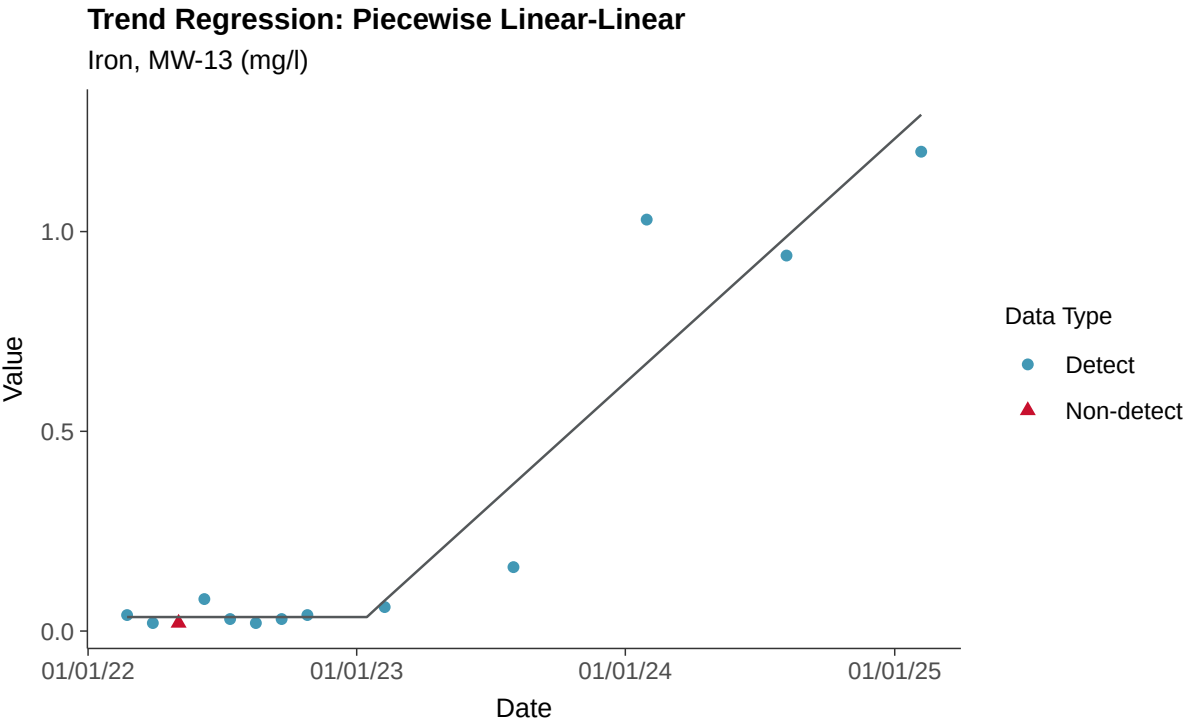
Iron, MW-13 (mg/l)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Iron, MW-13 (mg/l)

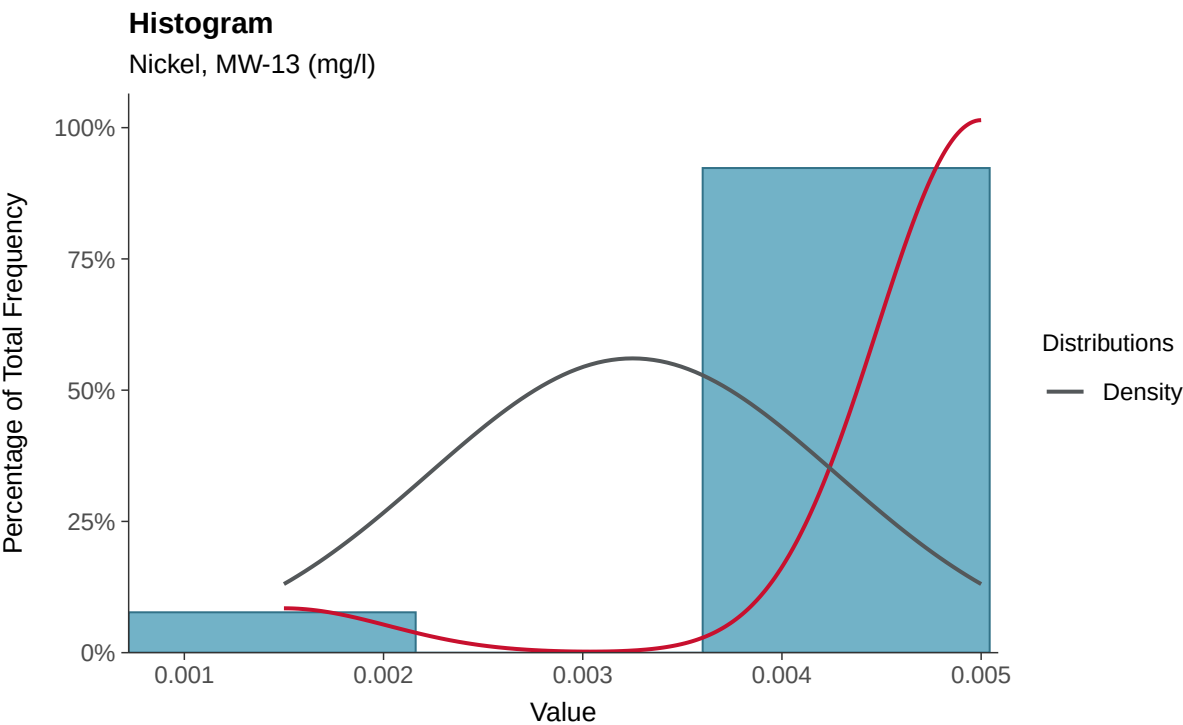
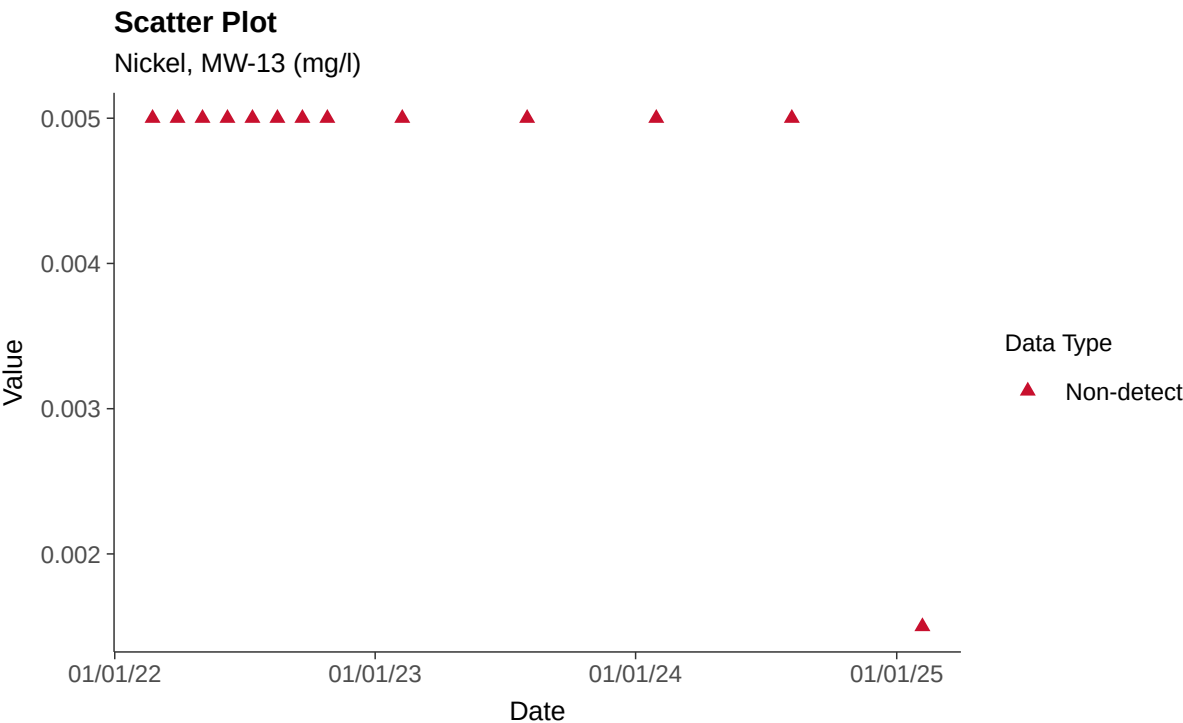


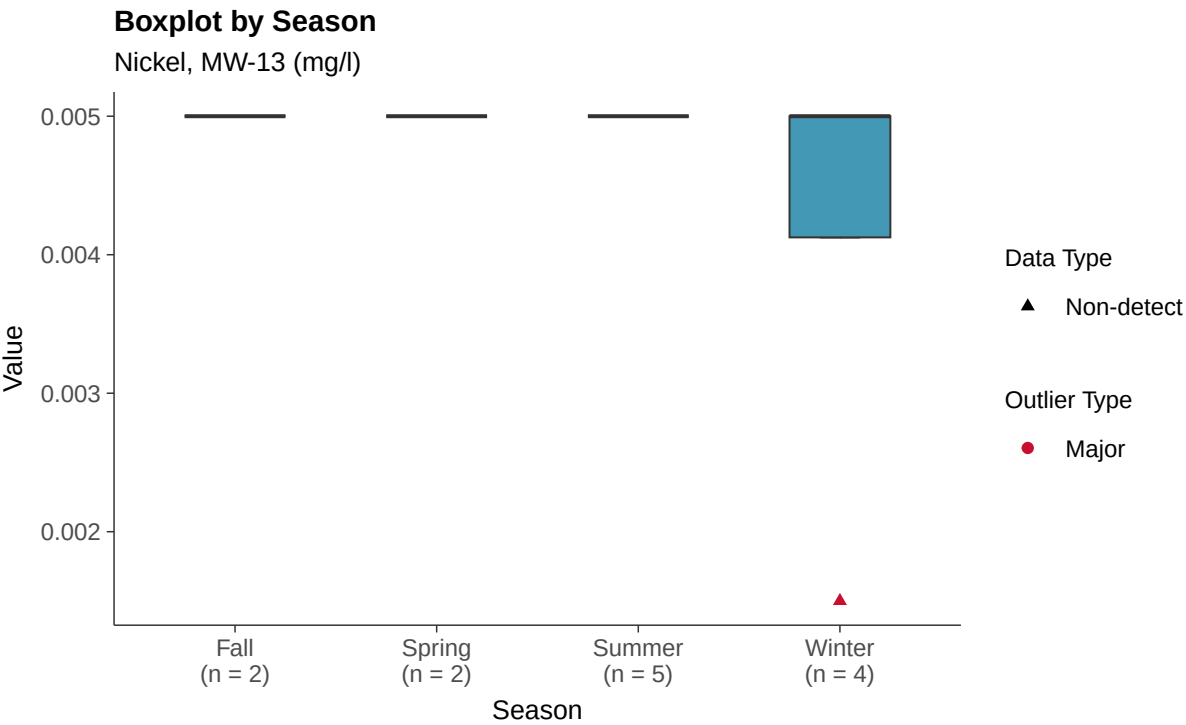
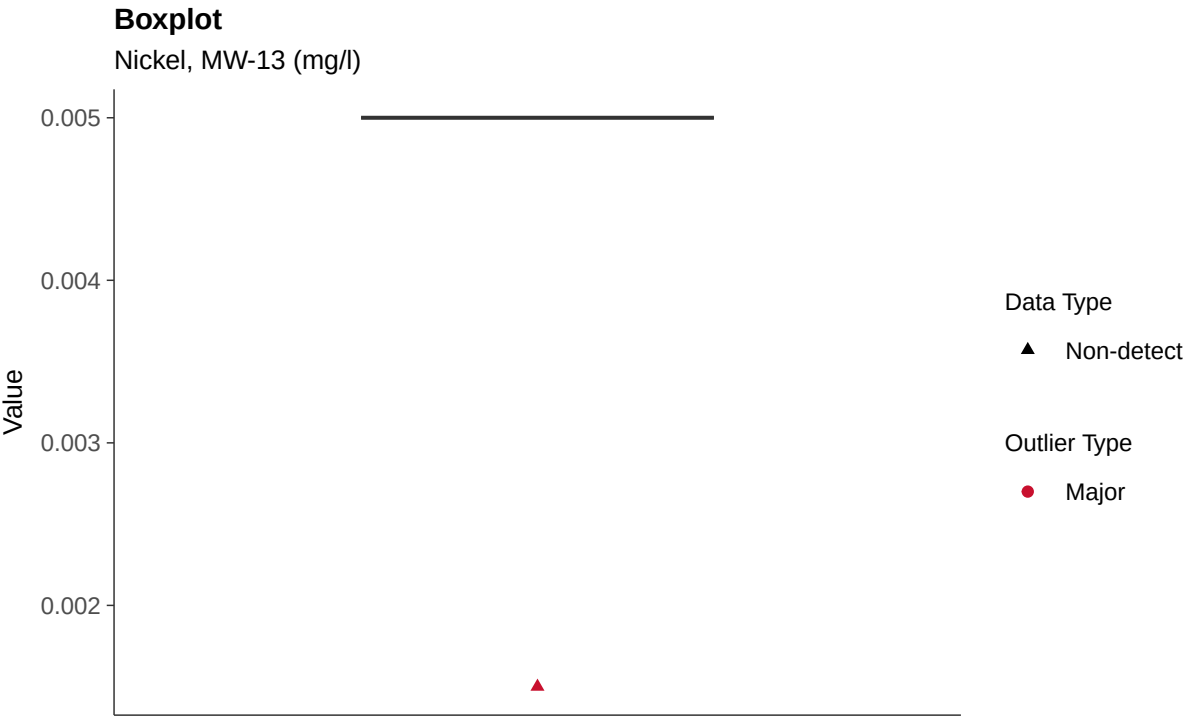




Part 115: Nickel, MW-13

ID: 20_5_119

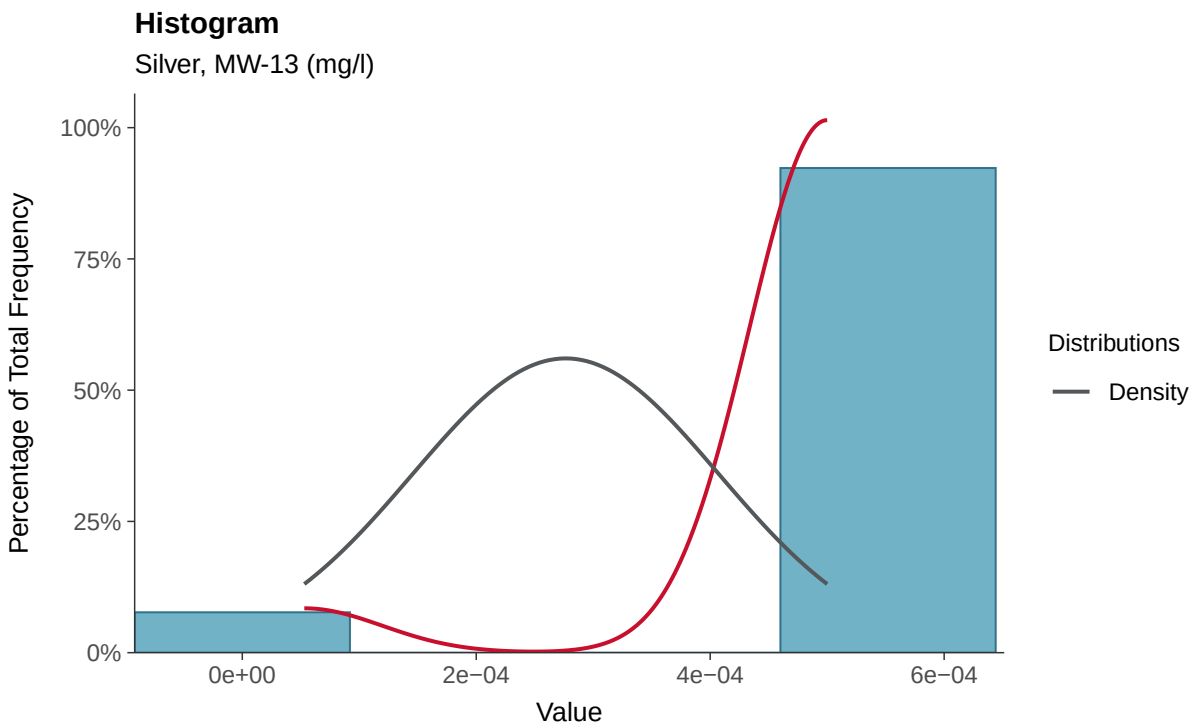
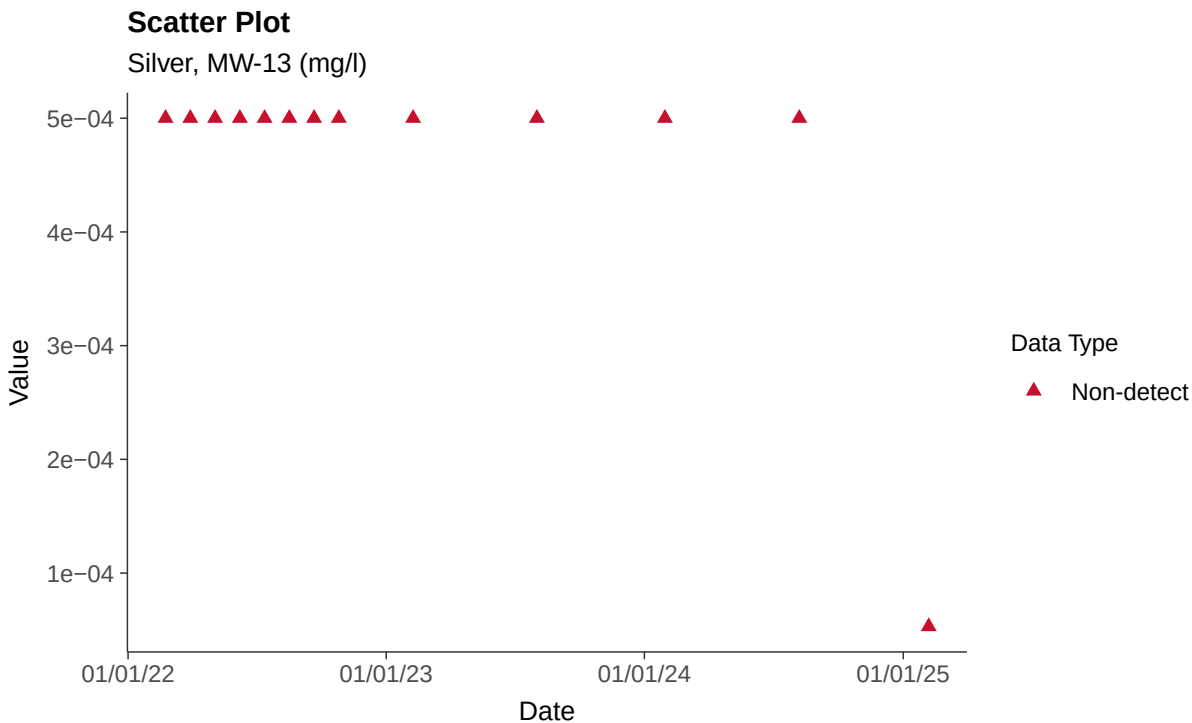


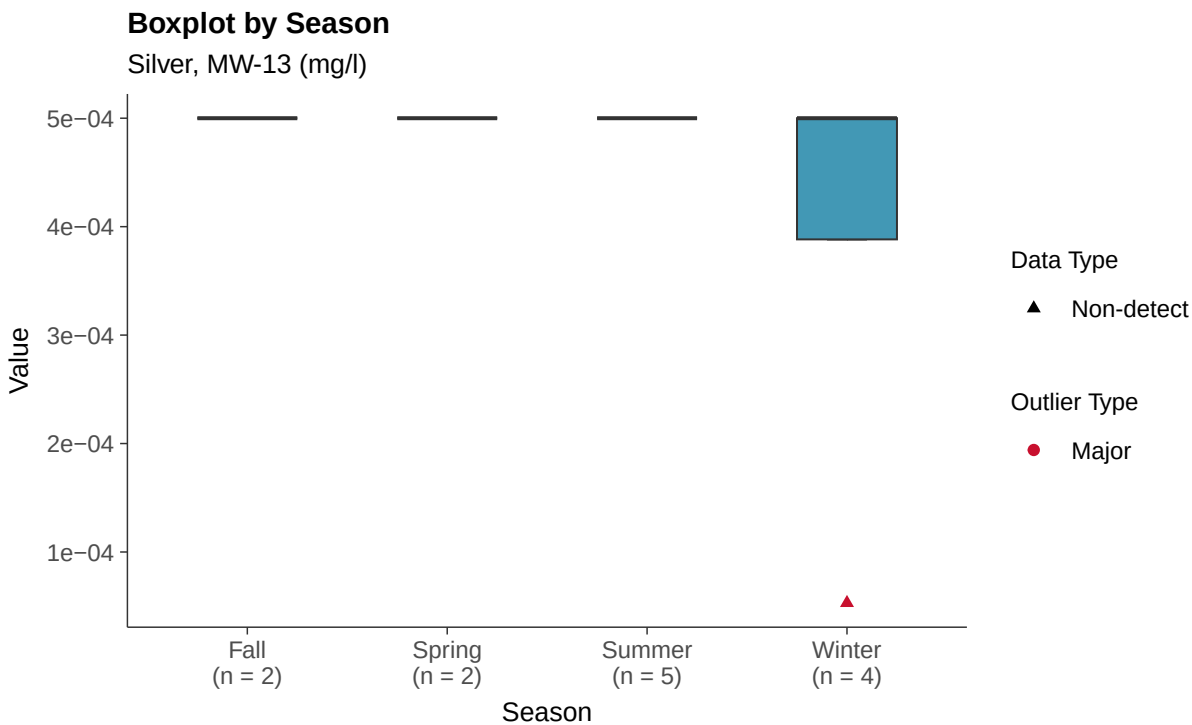
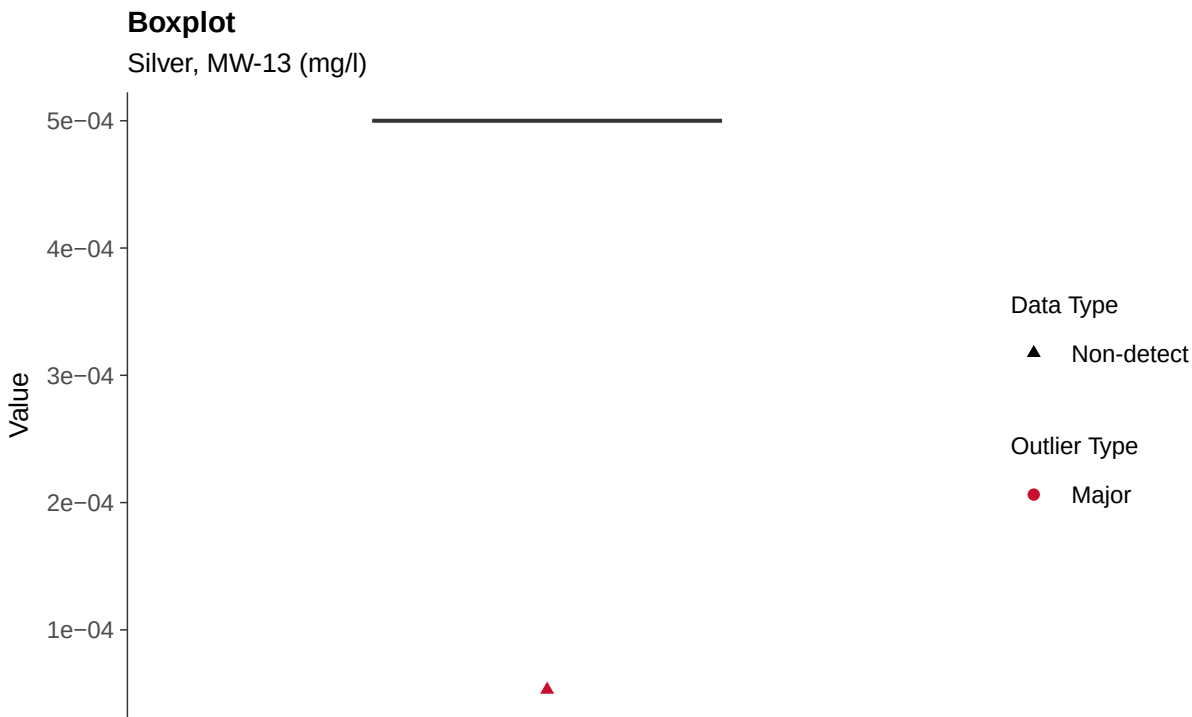




Part 115: Silver, MW-13

ID: 20_5_123

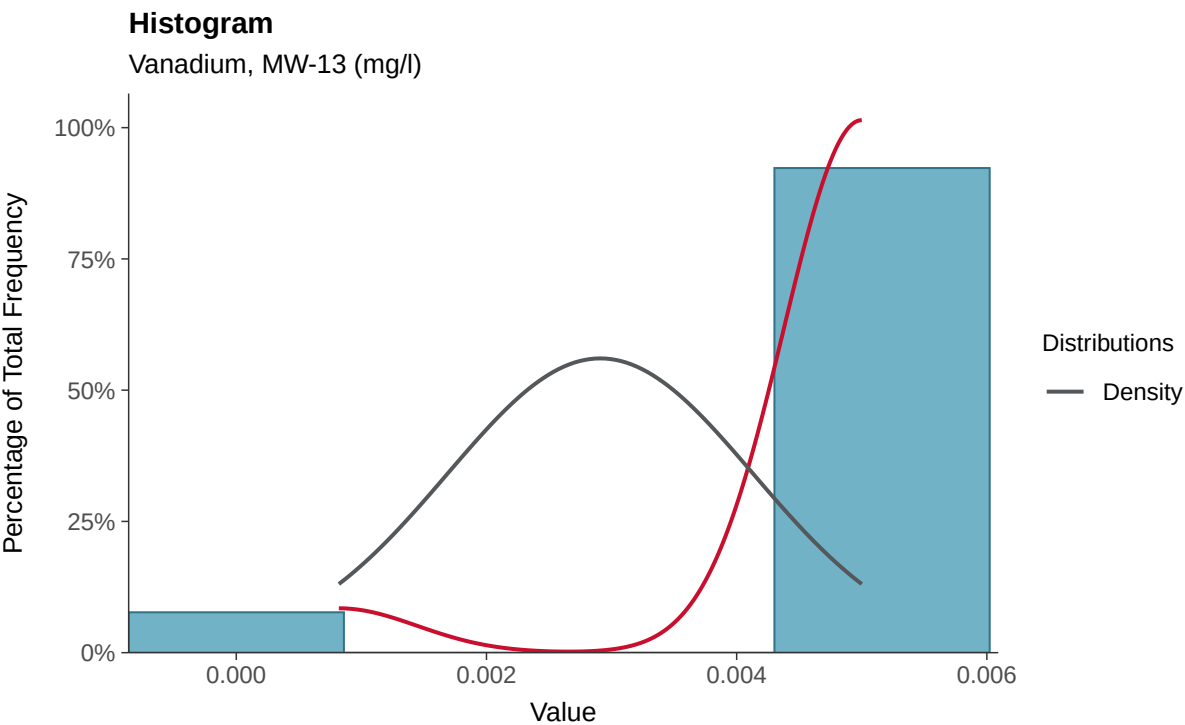
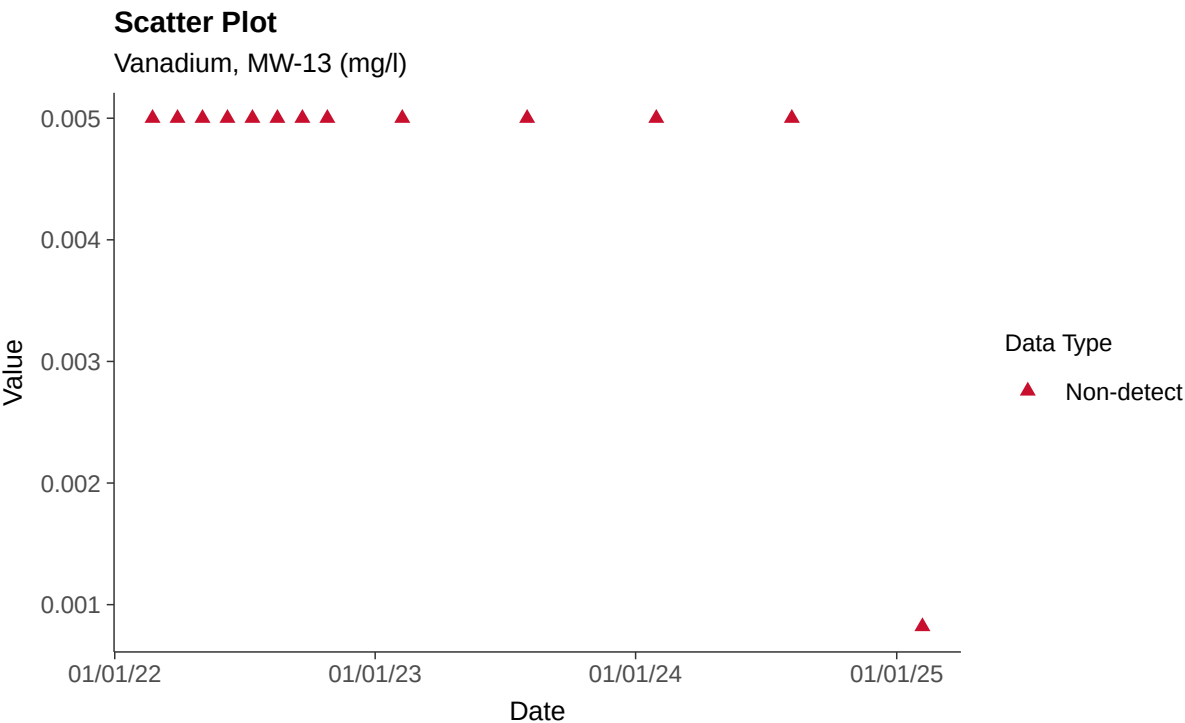


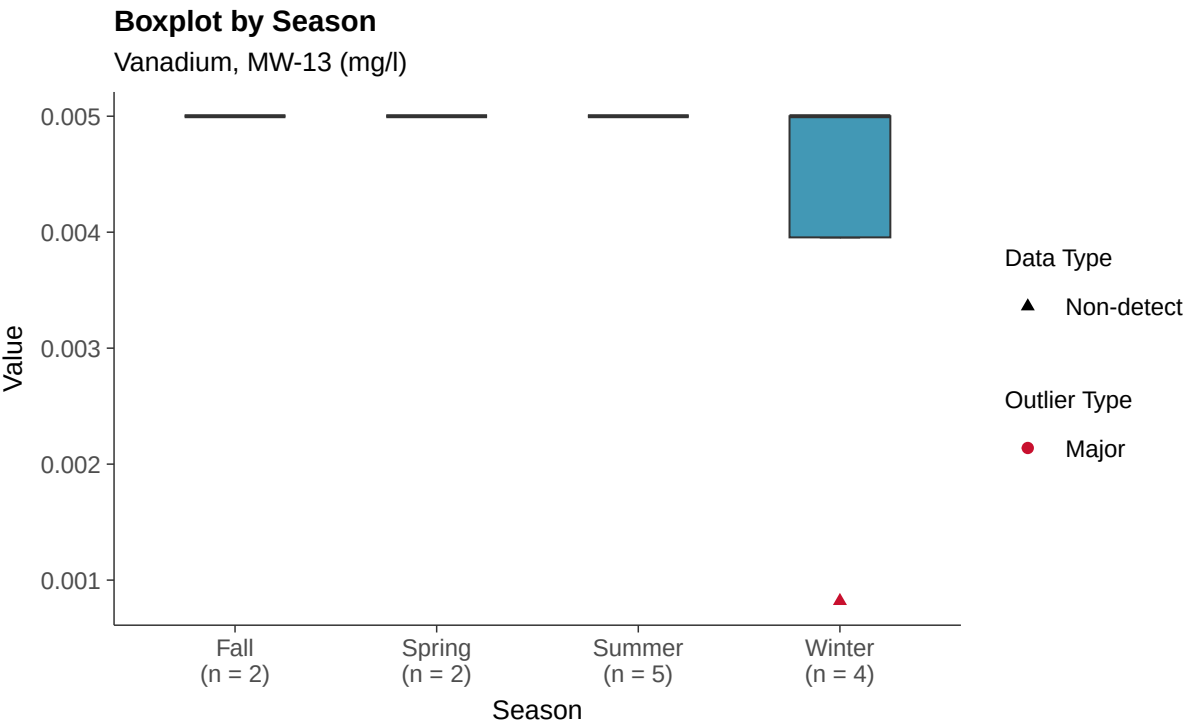
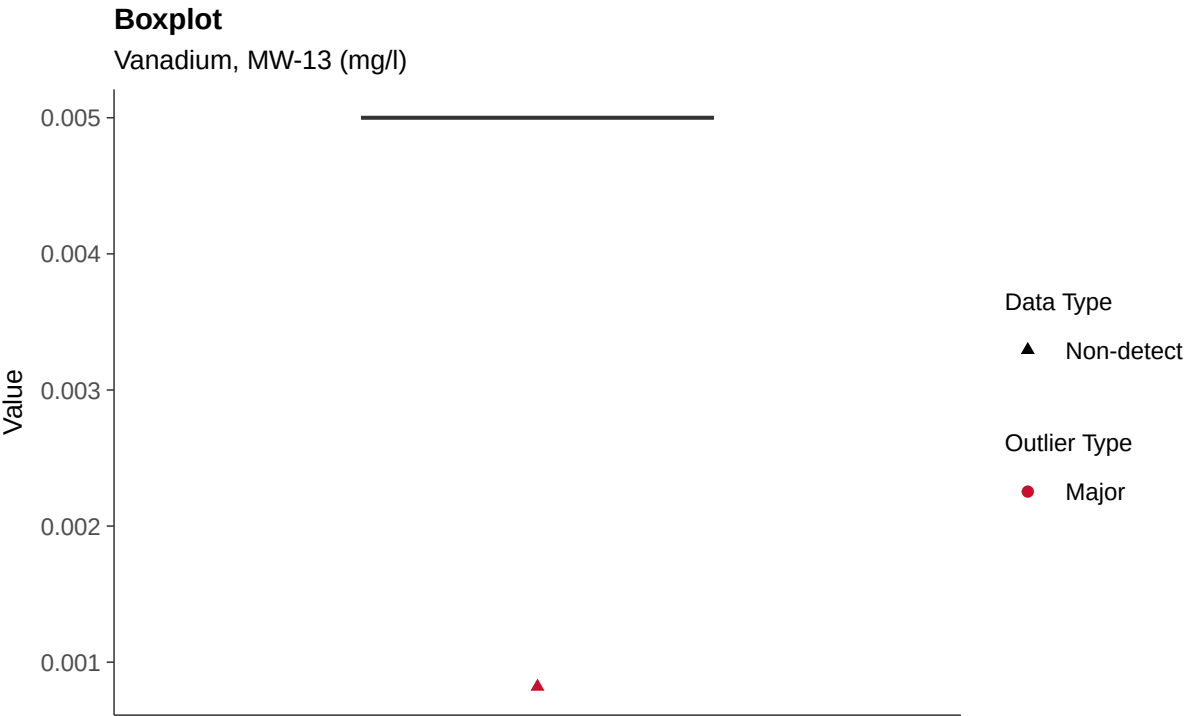




Part 115: Vanadium, MW-13

ID: 20_5_128

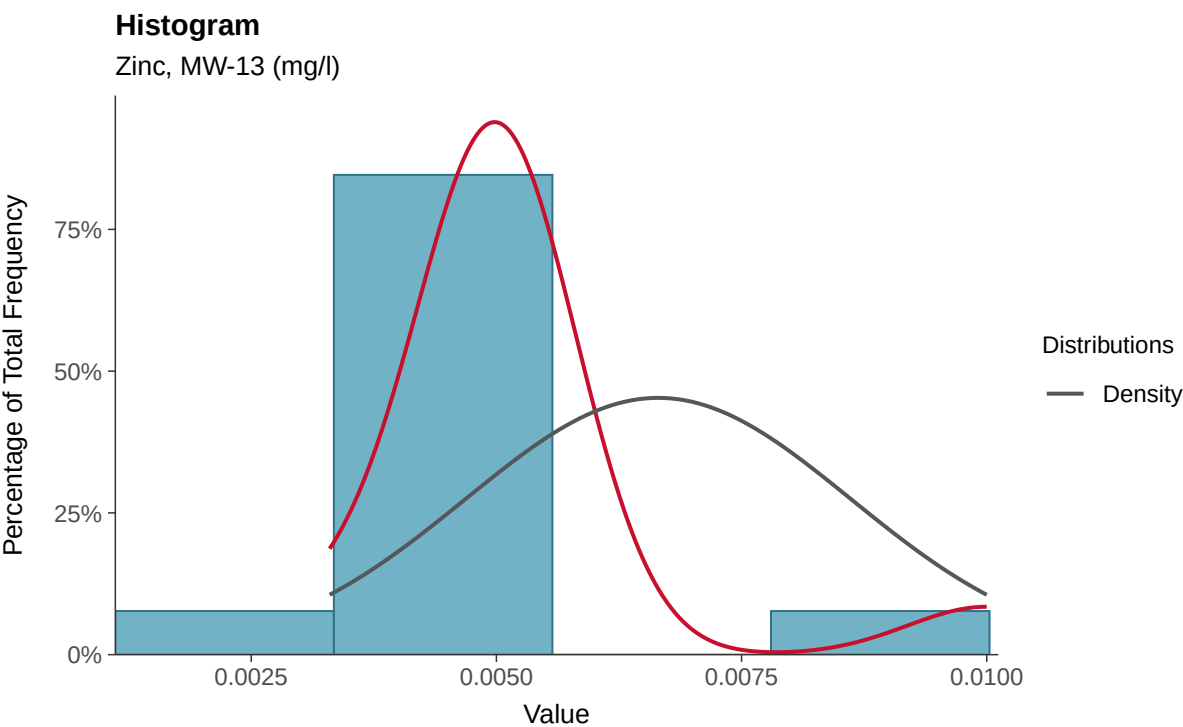
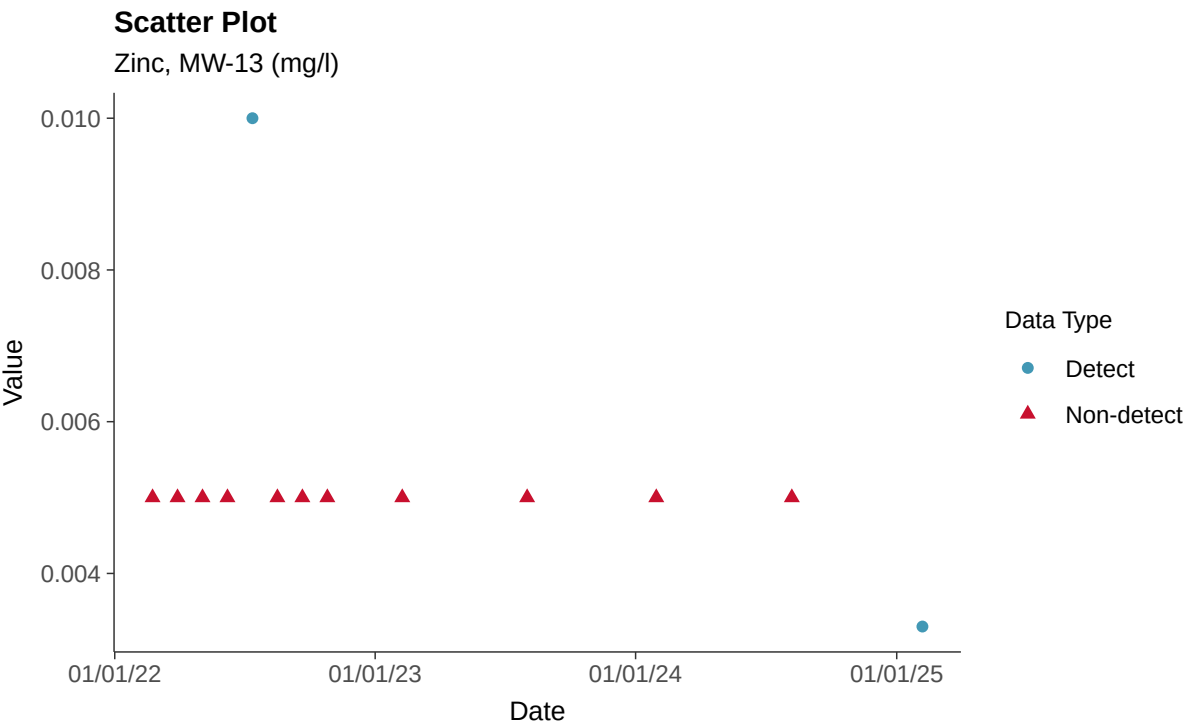


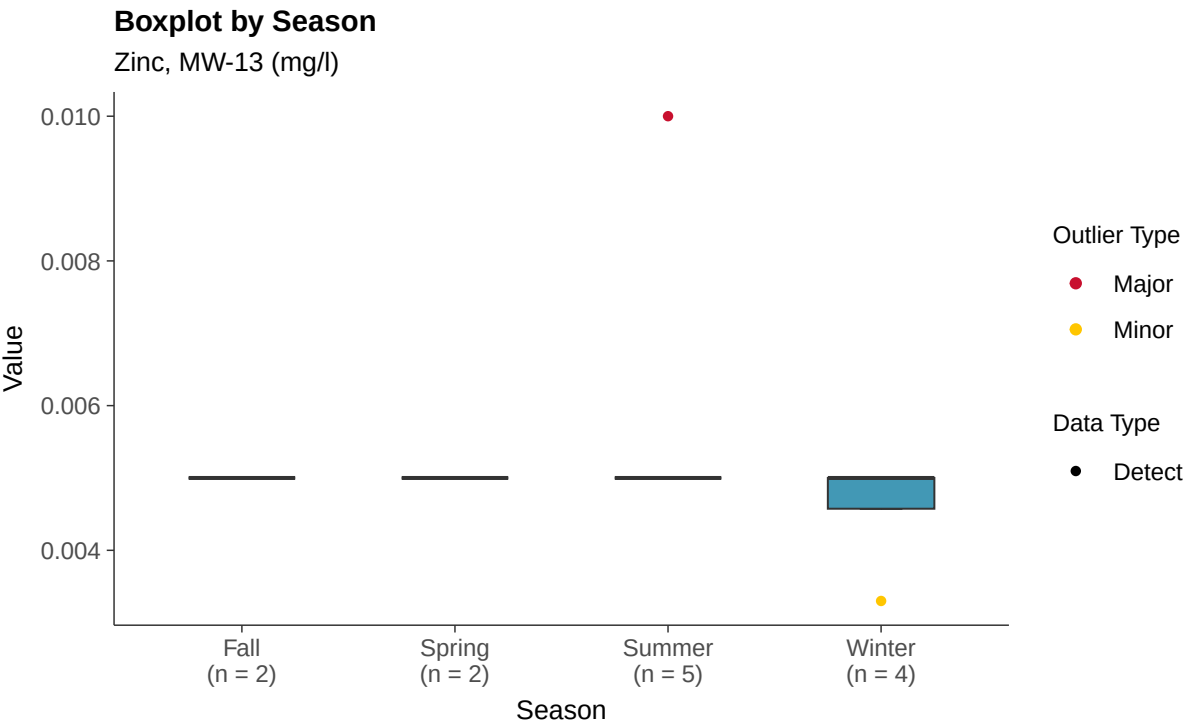
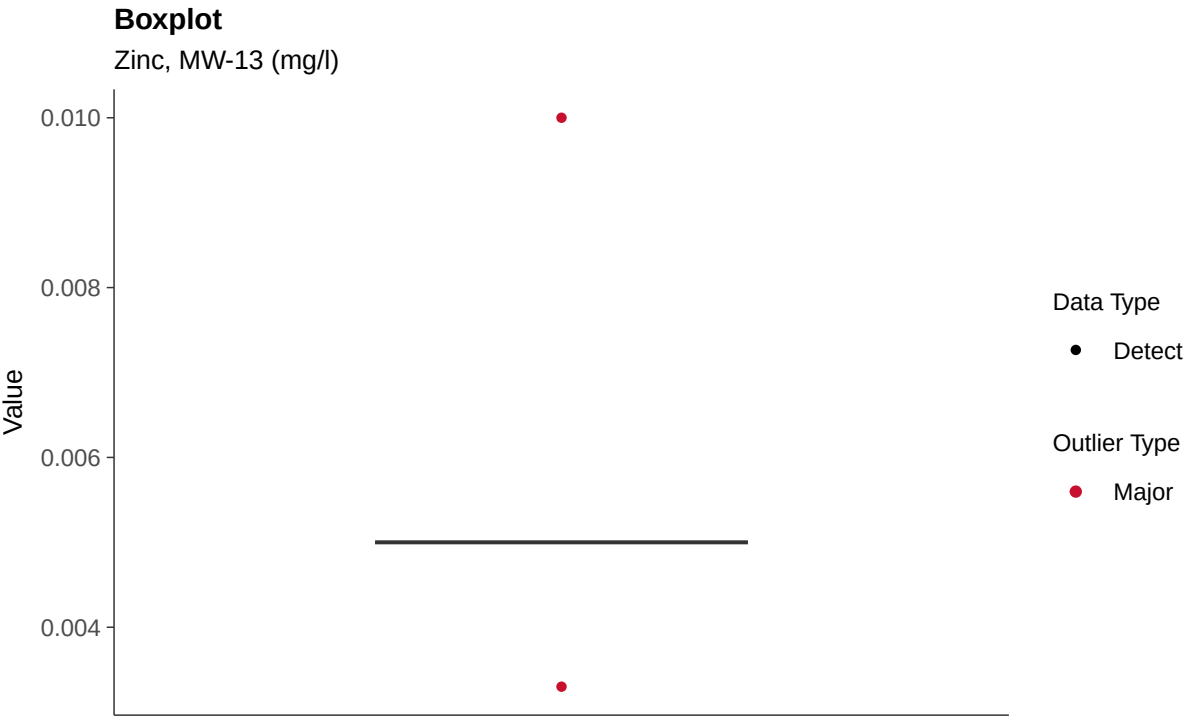


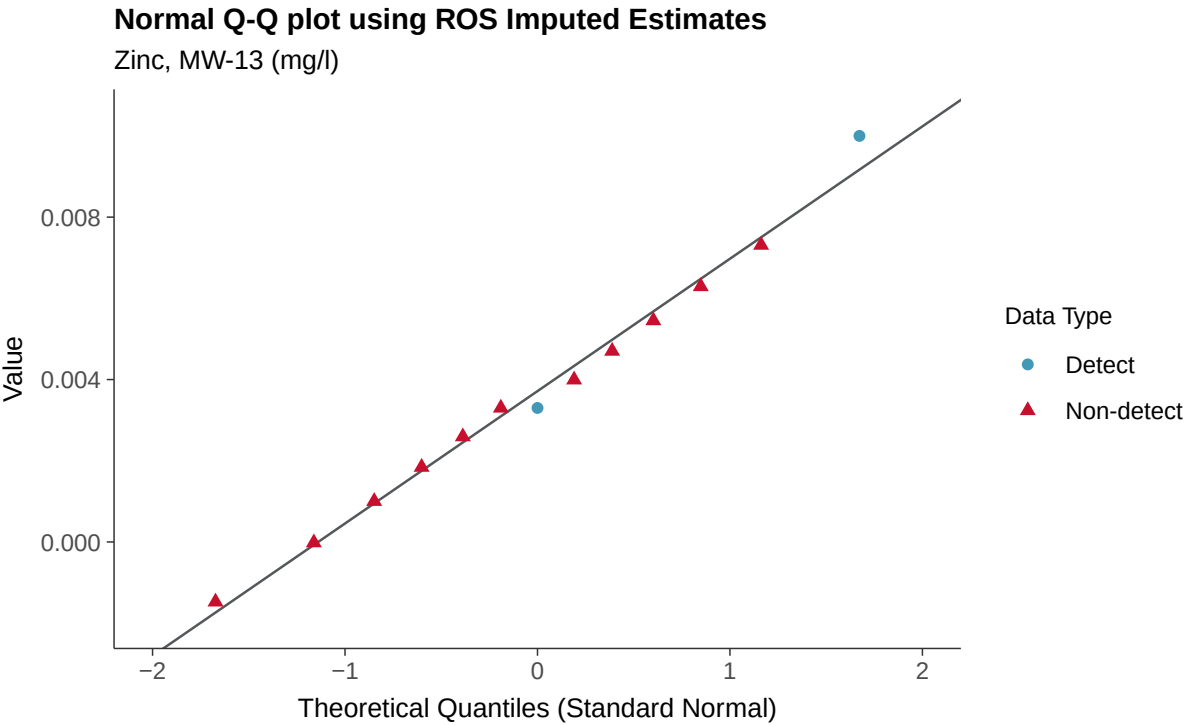


Part 115: Zinc, MW-13

ID: 20_5_129



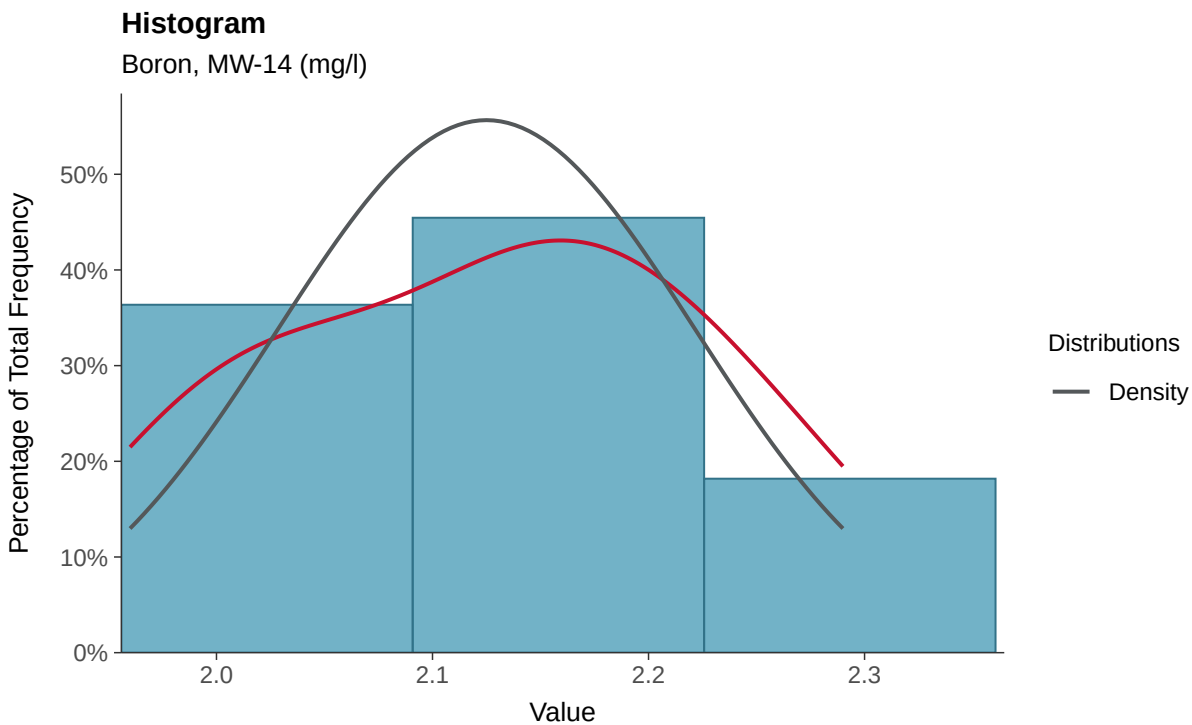
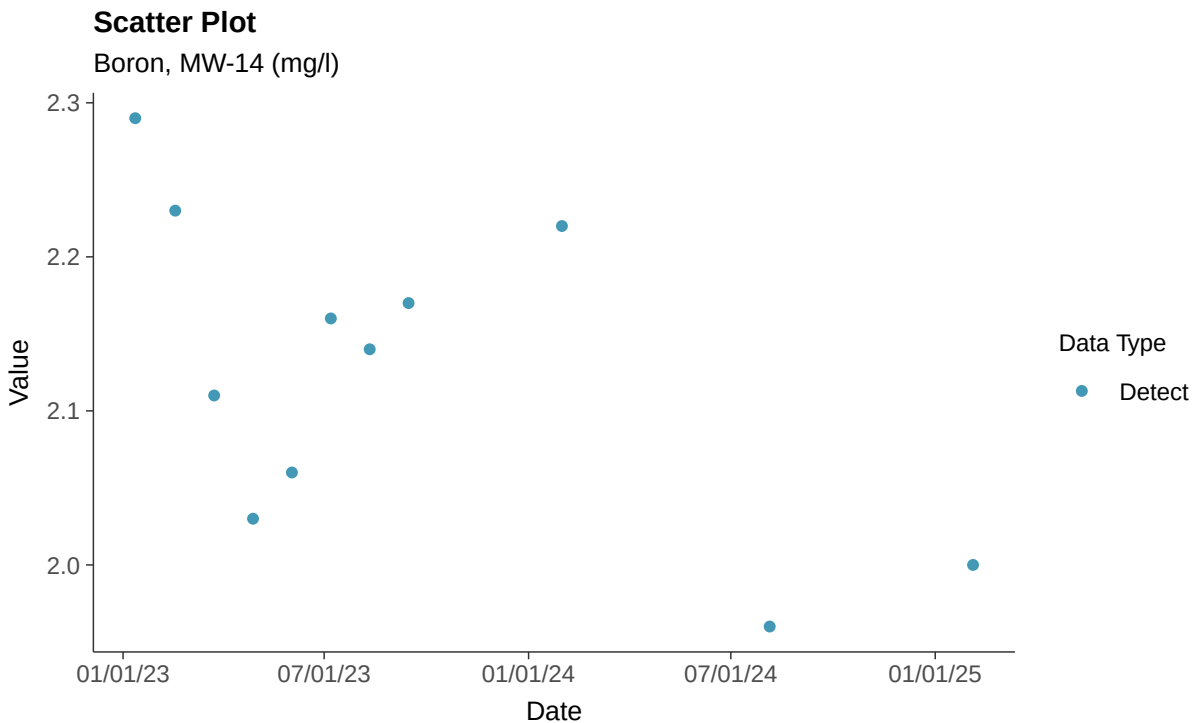


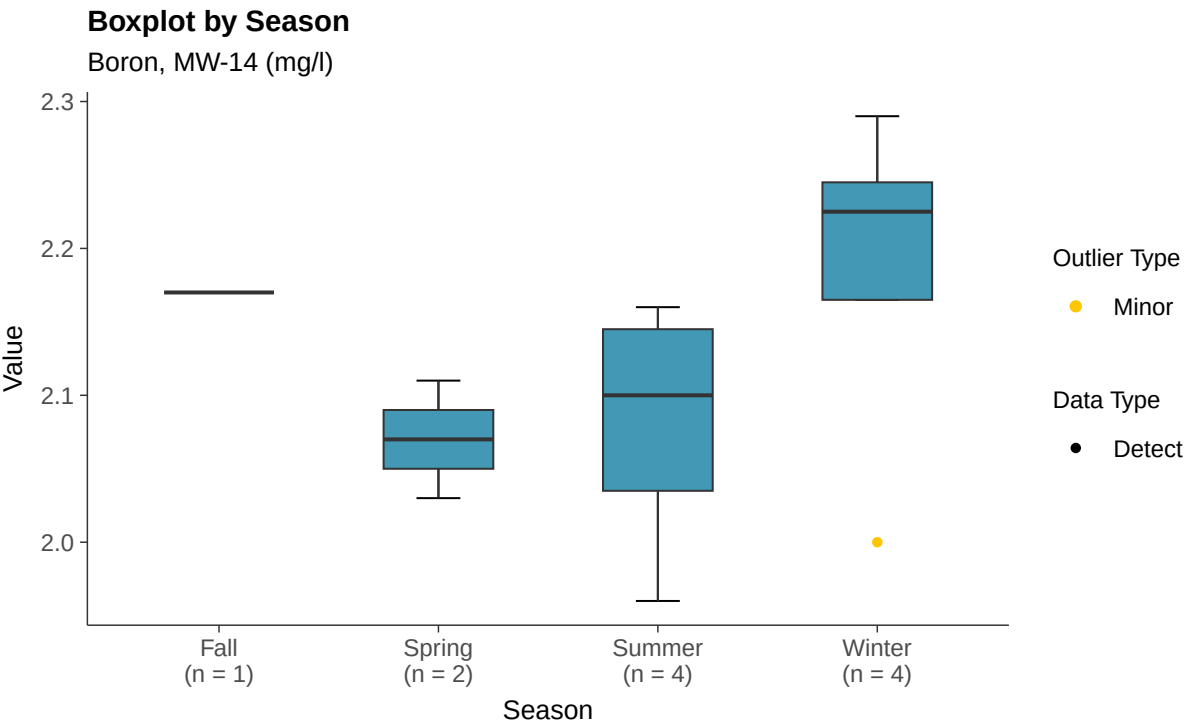
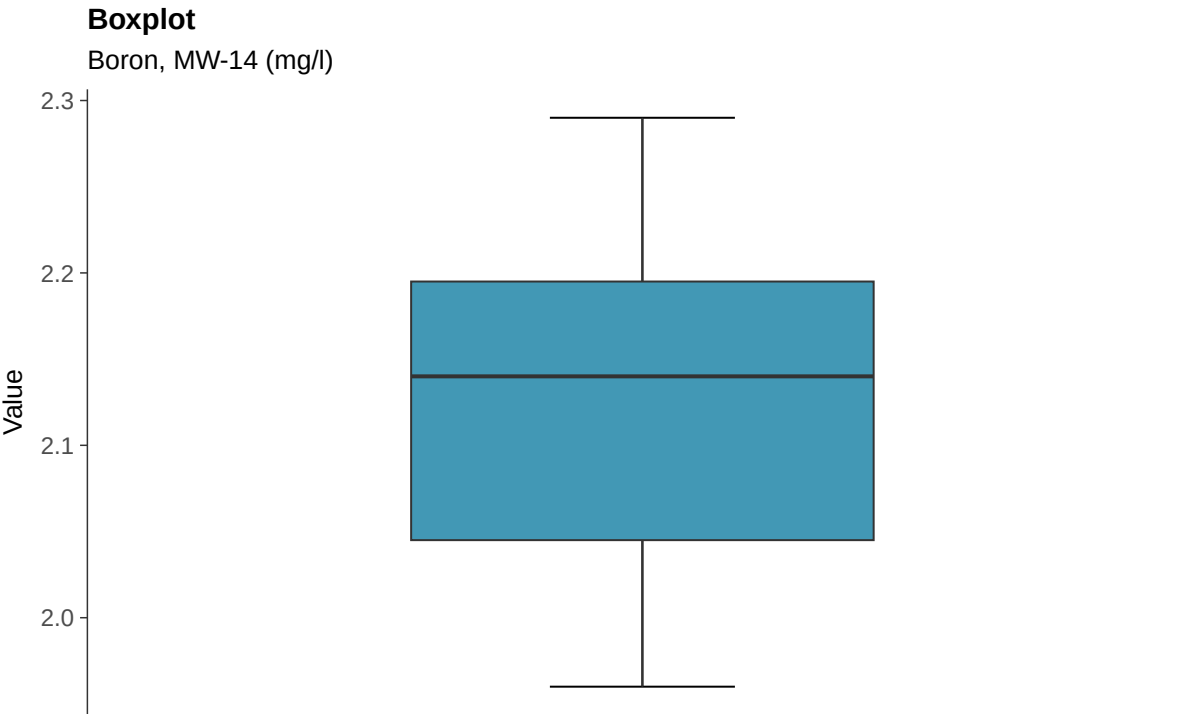


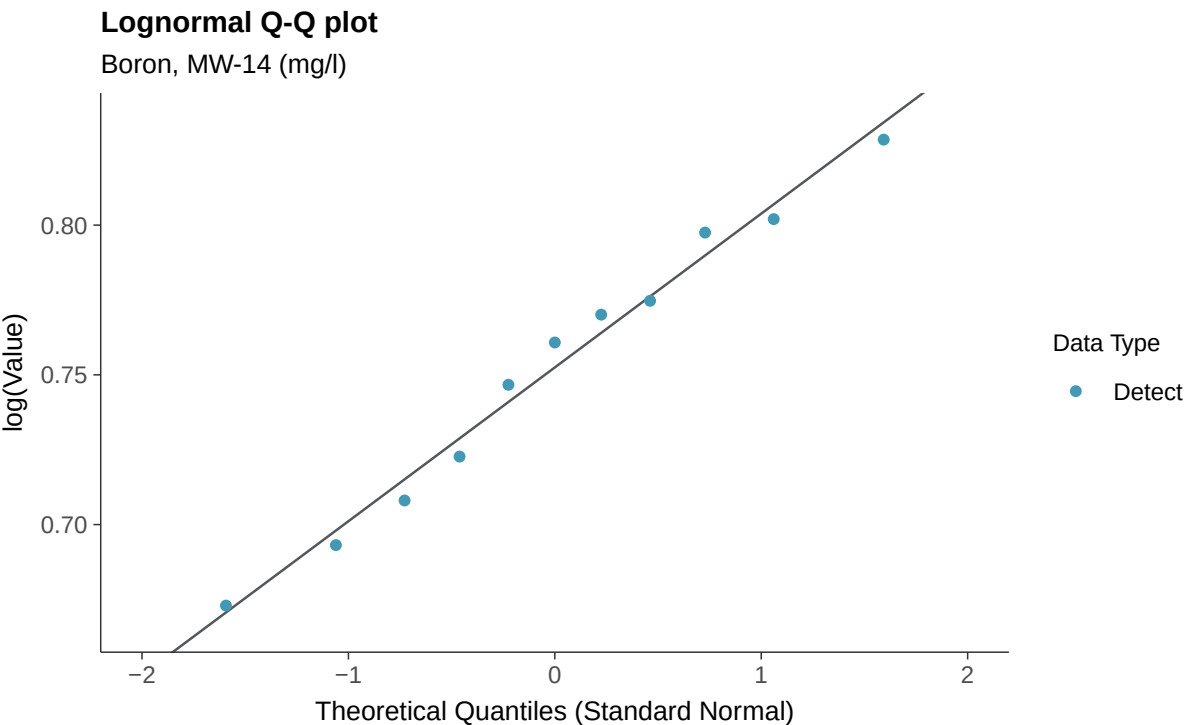
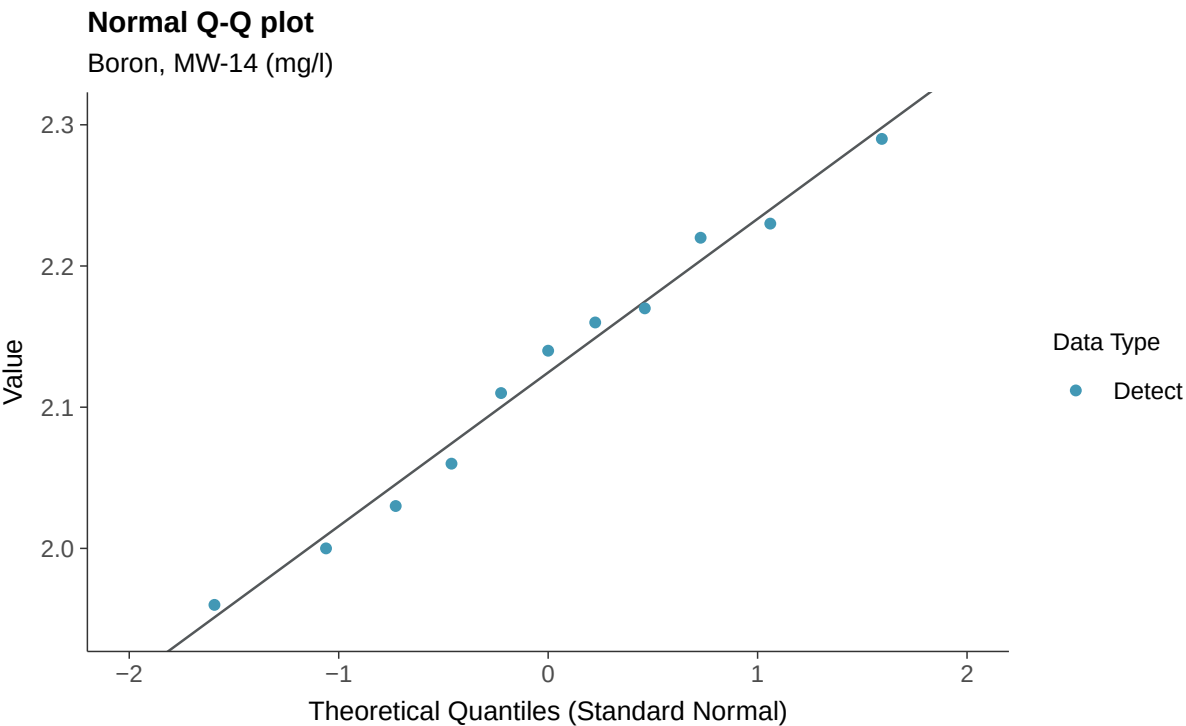


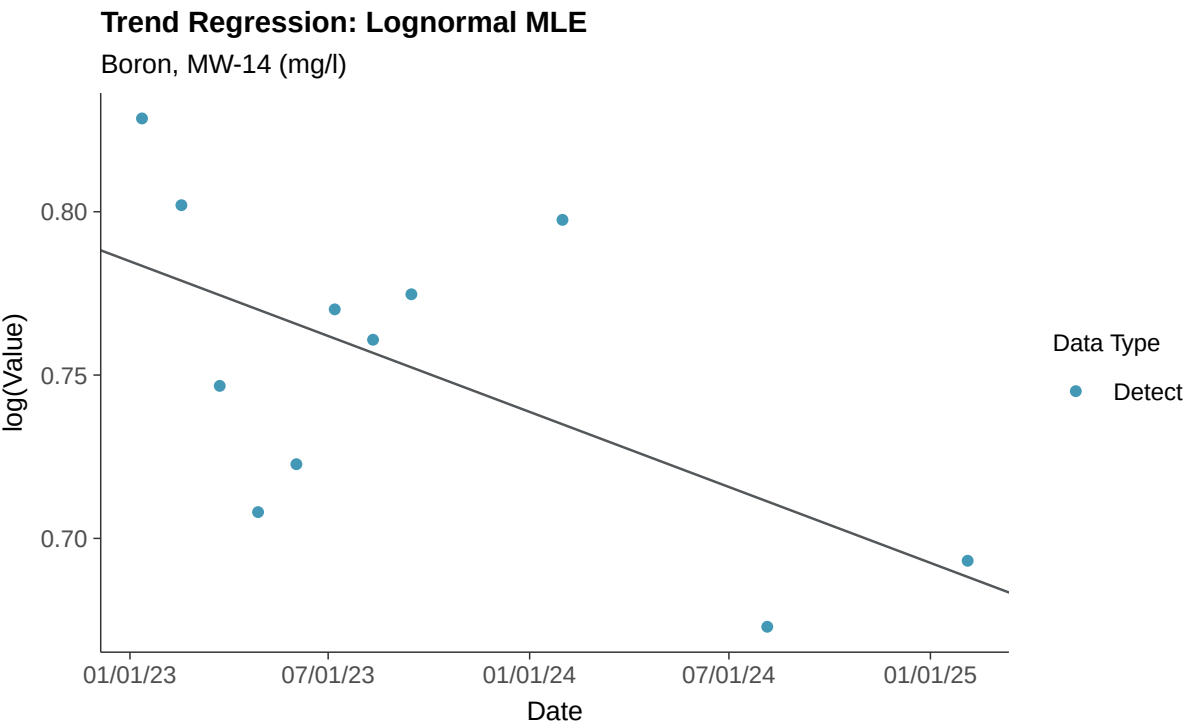
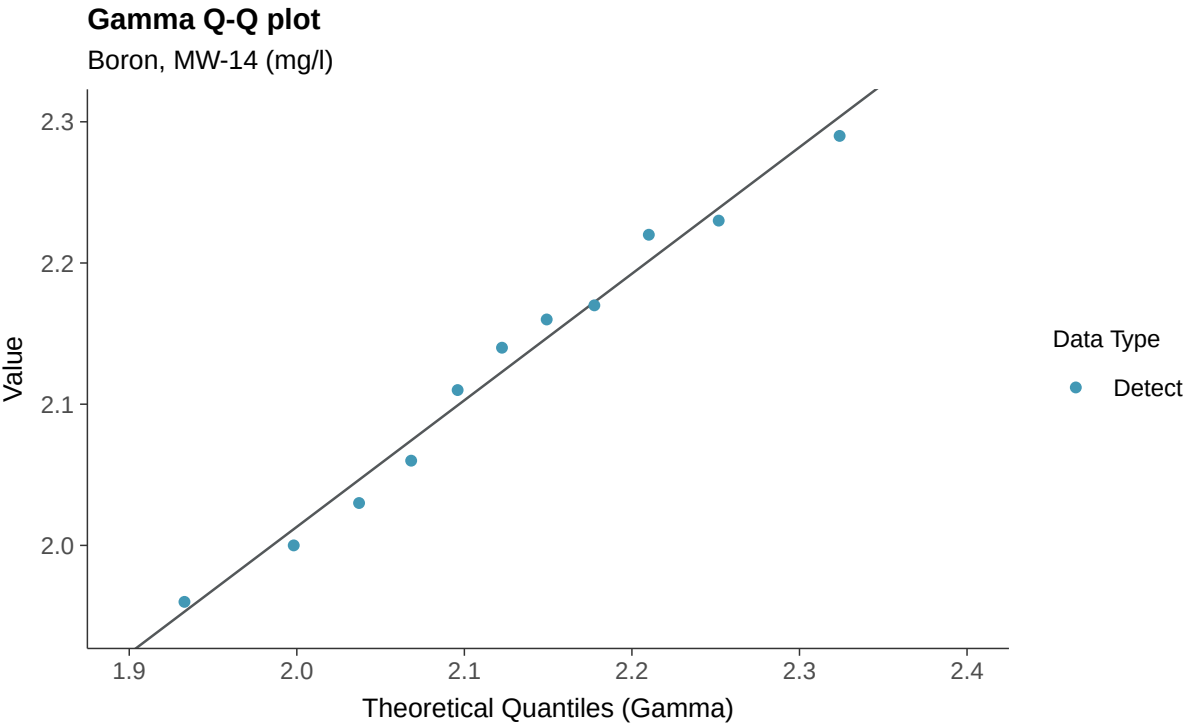
Appendix III: Boron, MW-14

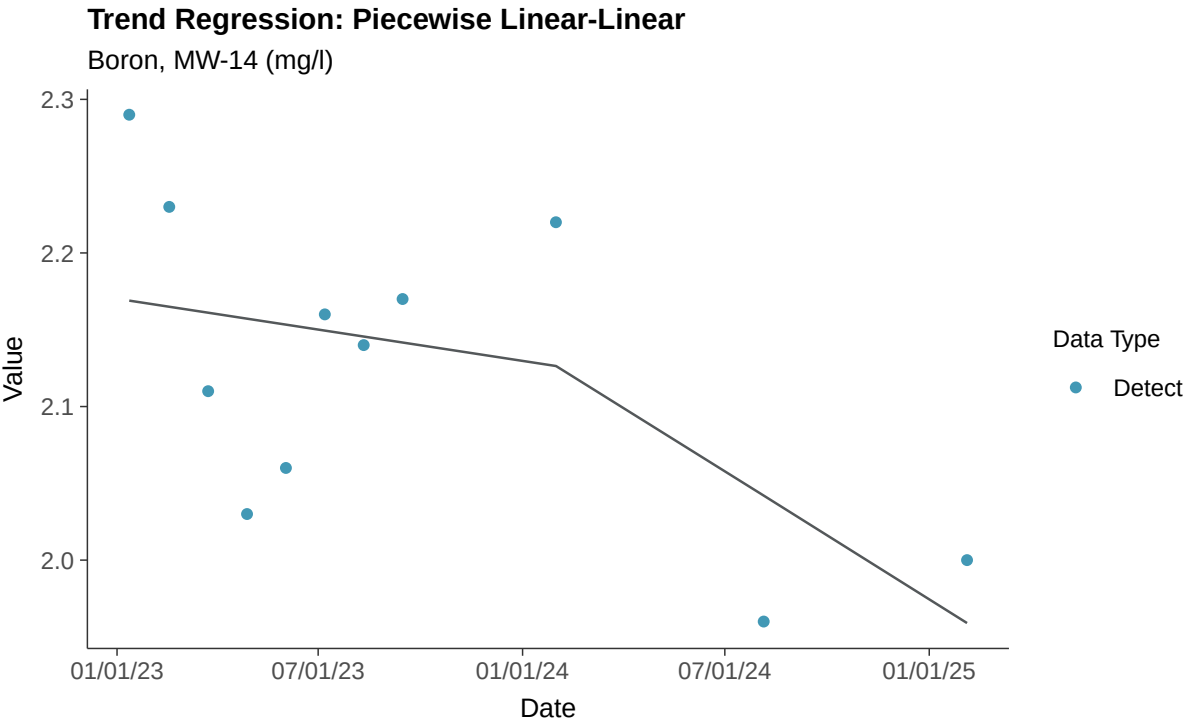
ID: 21_2_105







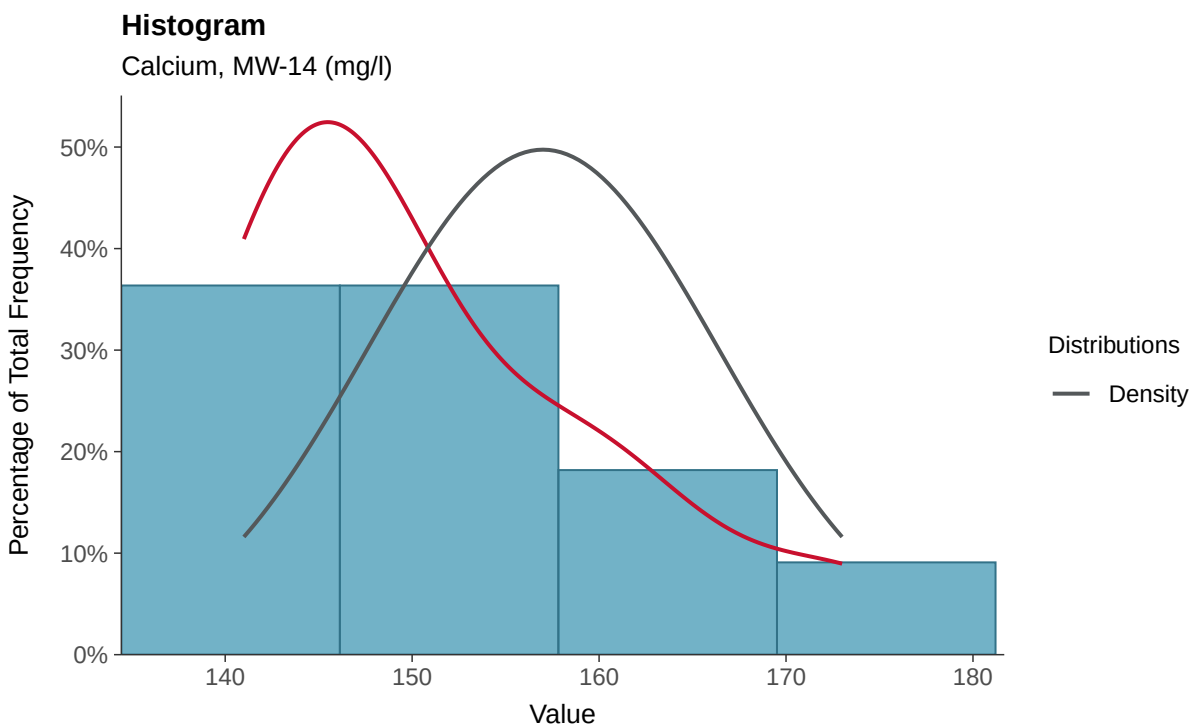
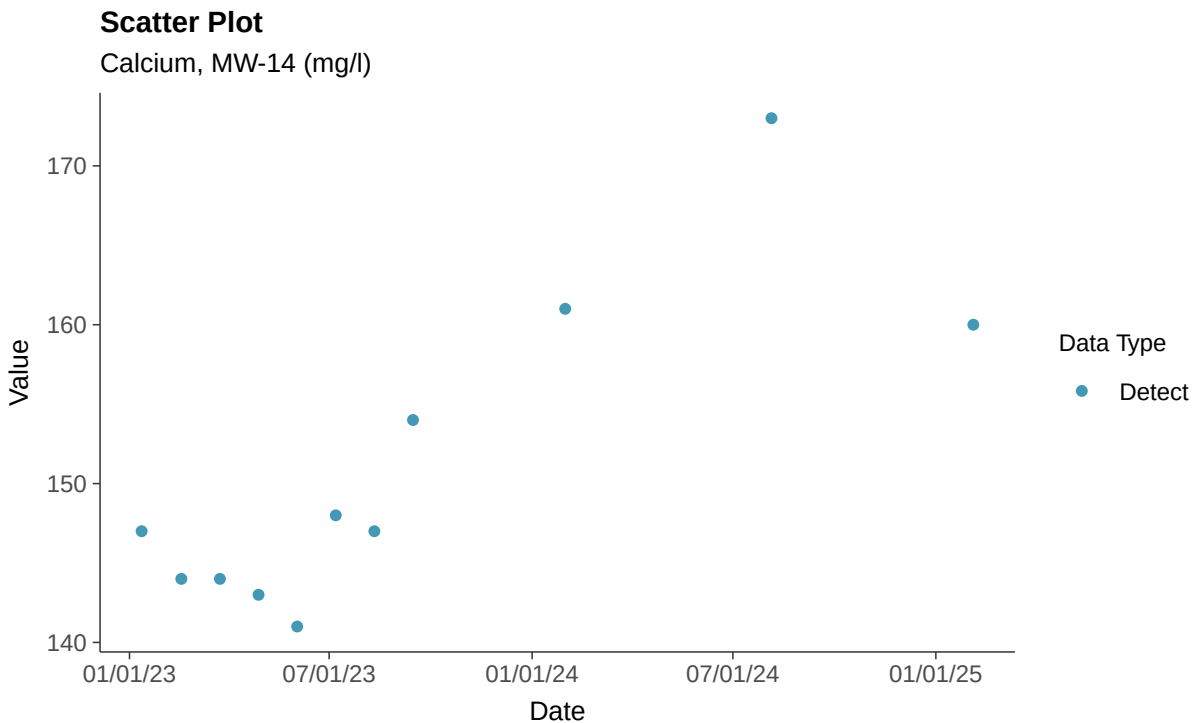


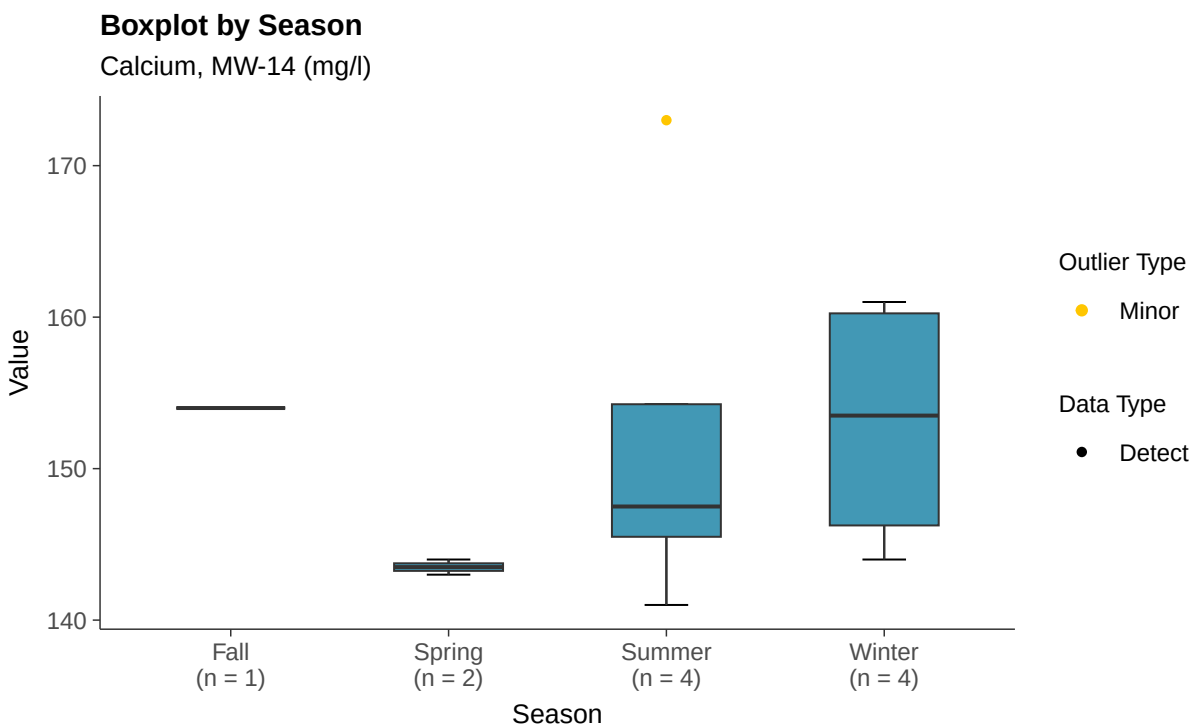
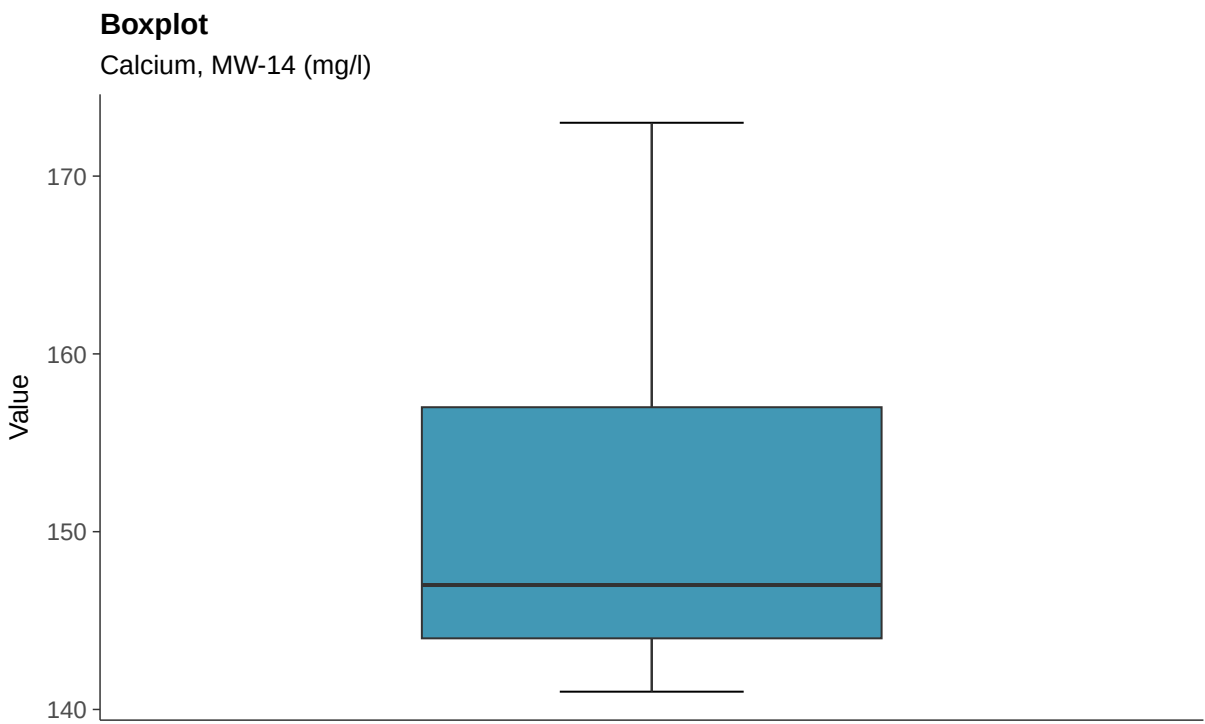


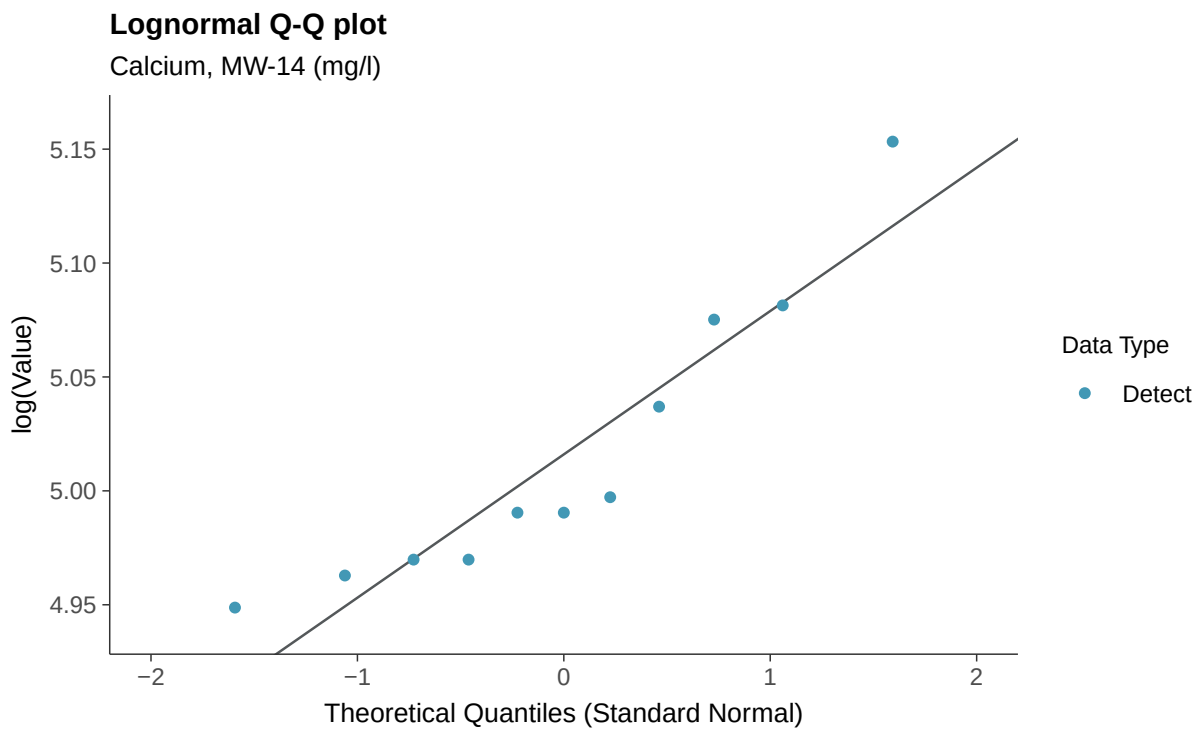
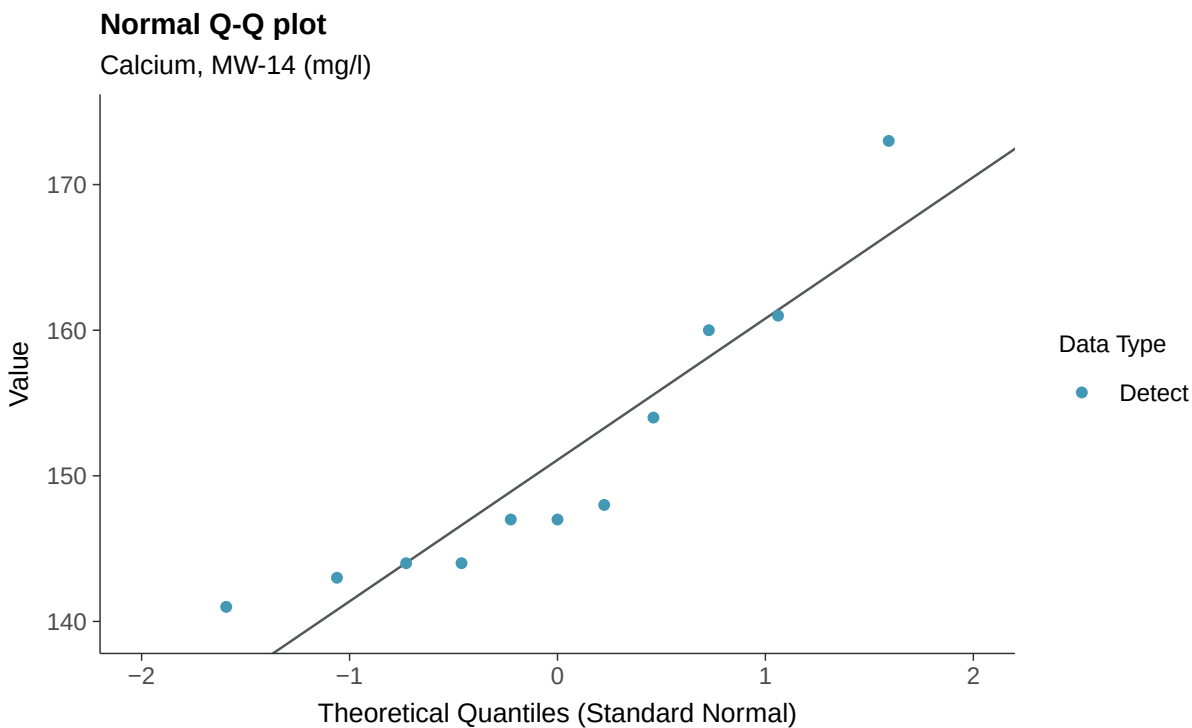


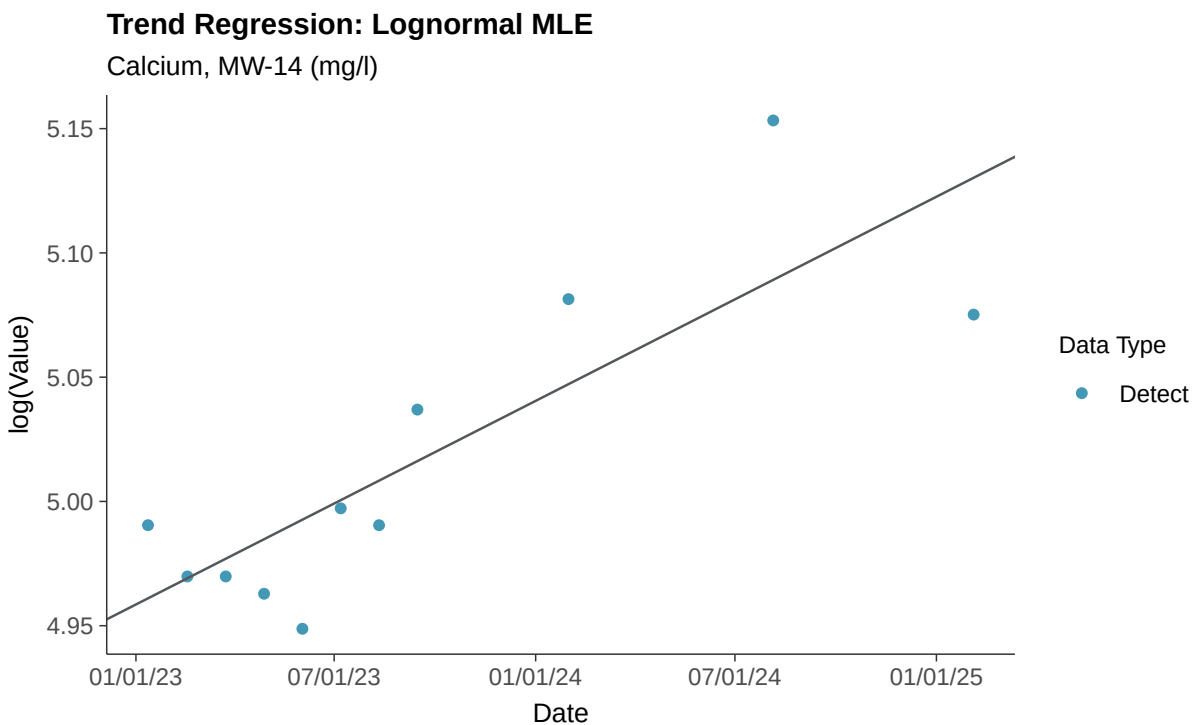
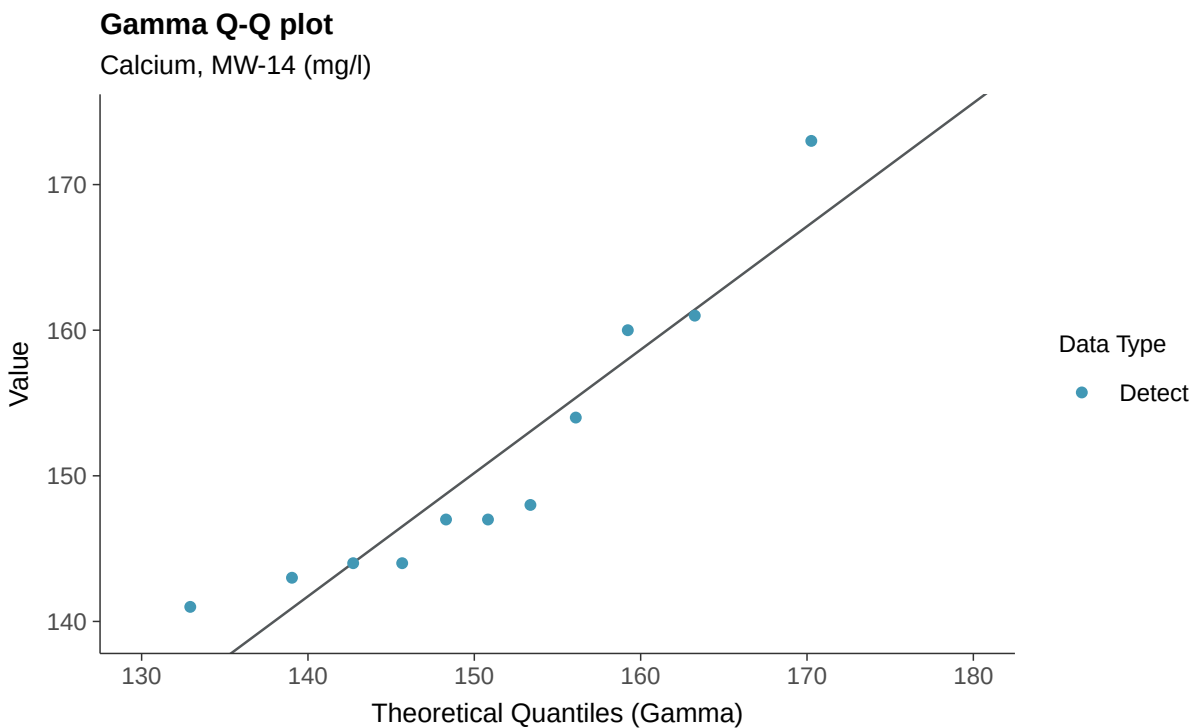
Appendix III: Calcium, MW-14

ID: 21_2_107





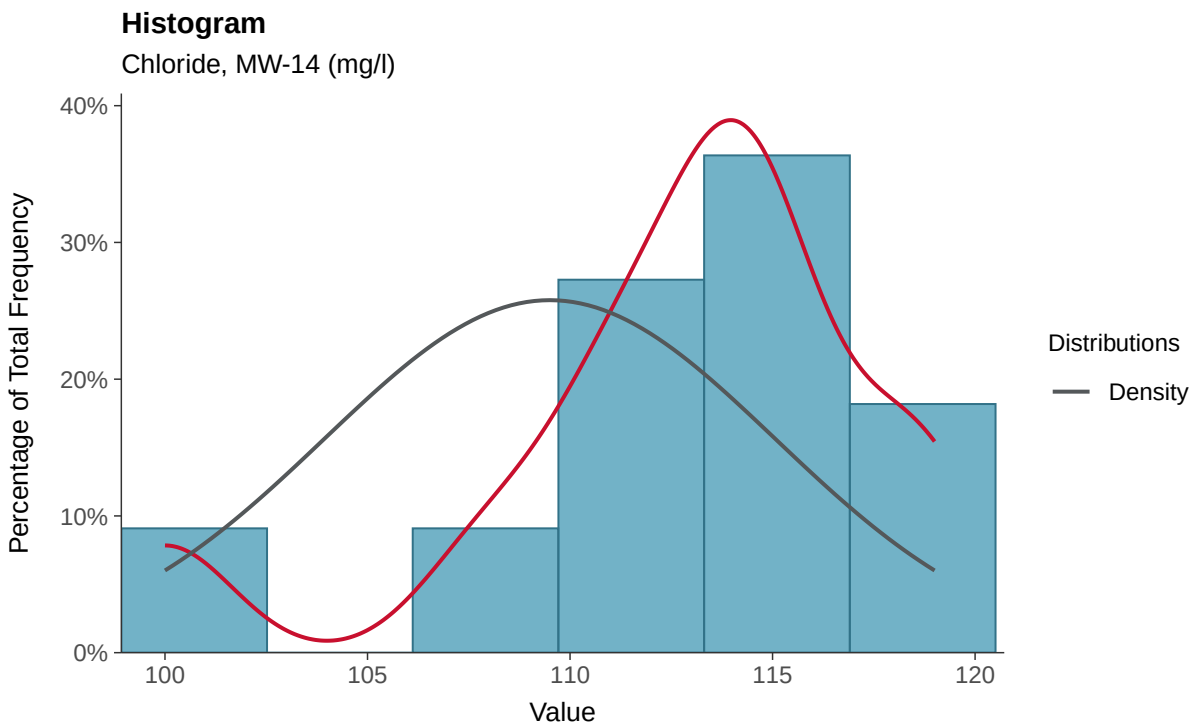
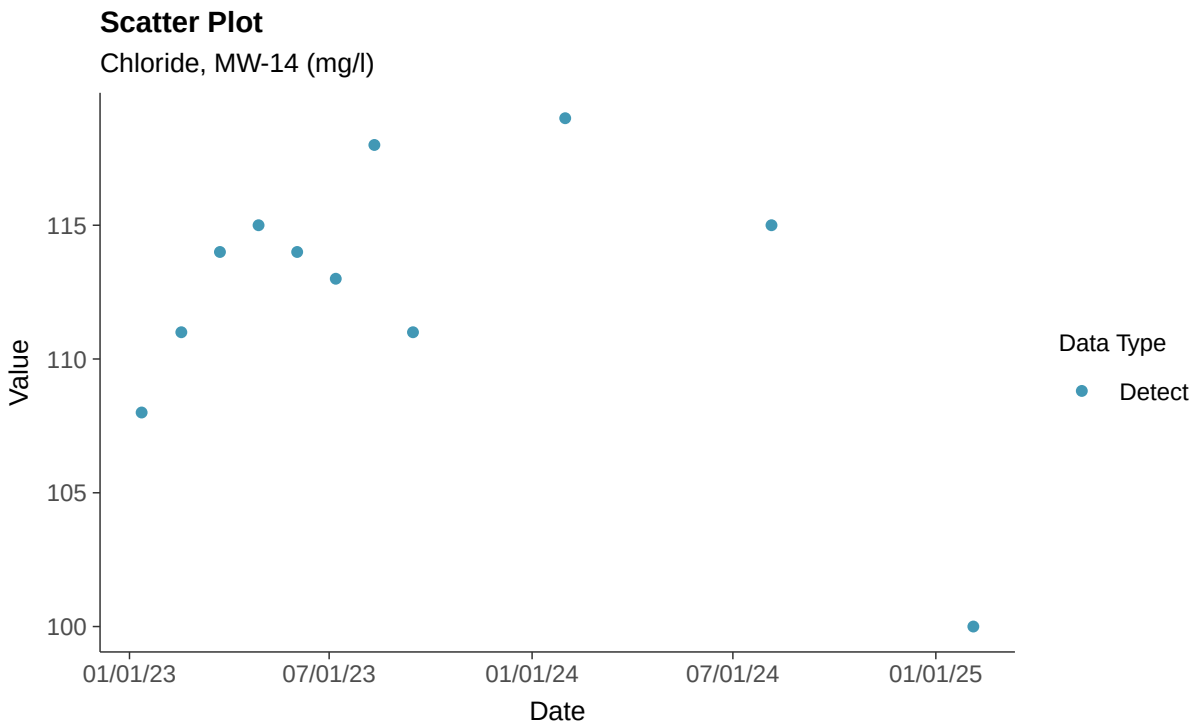


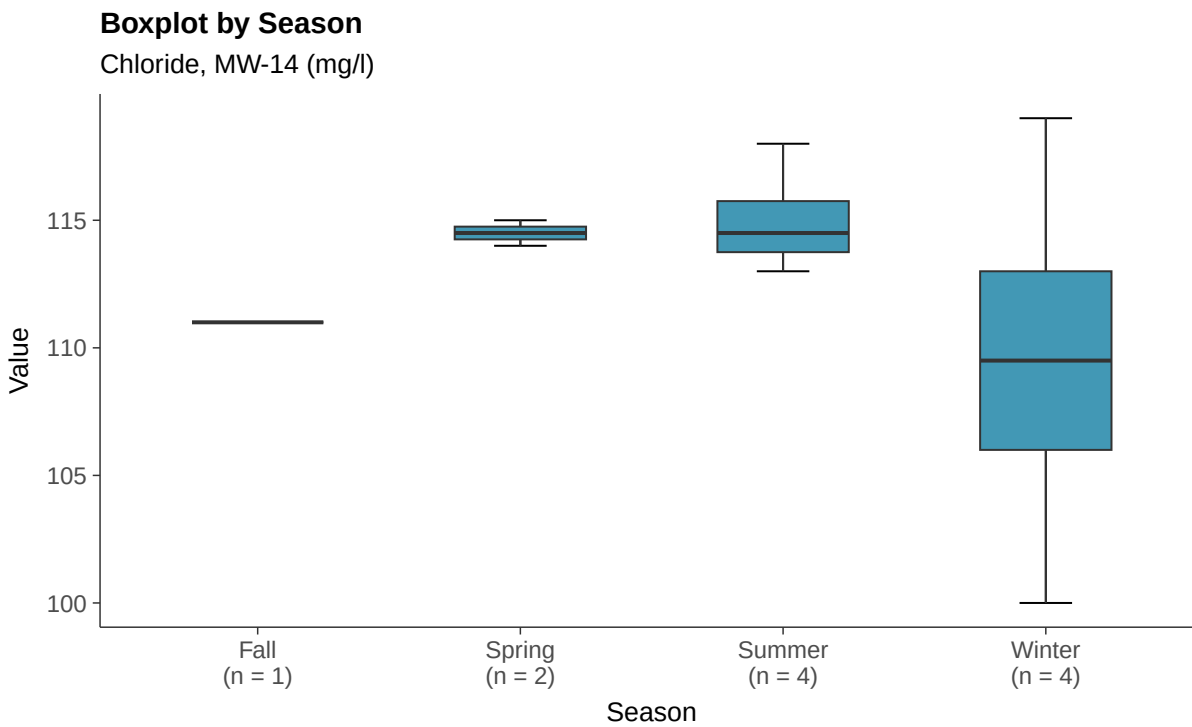
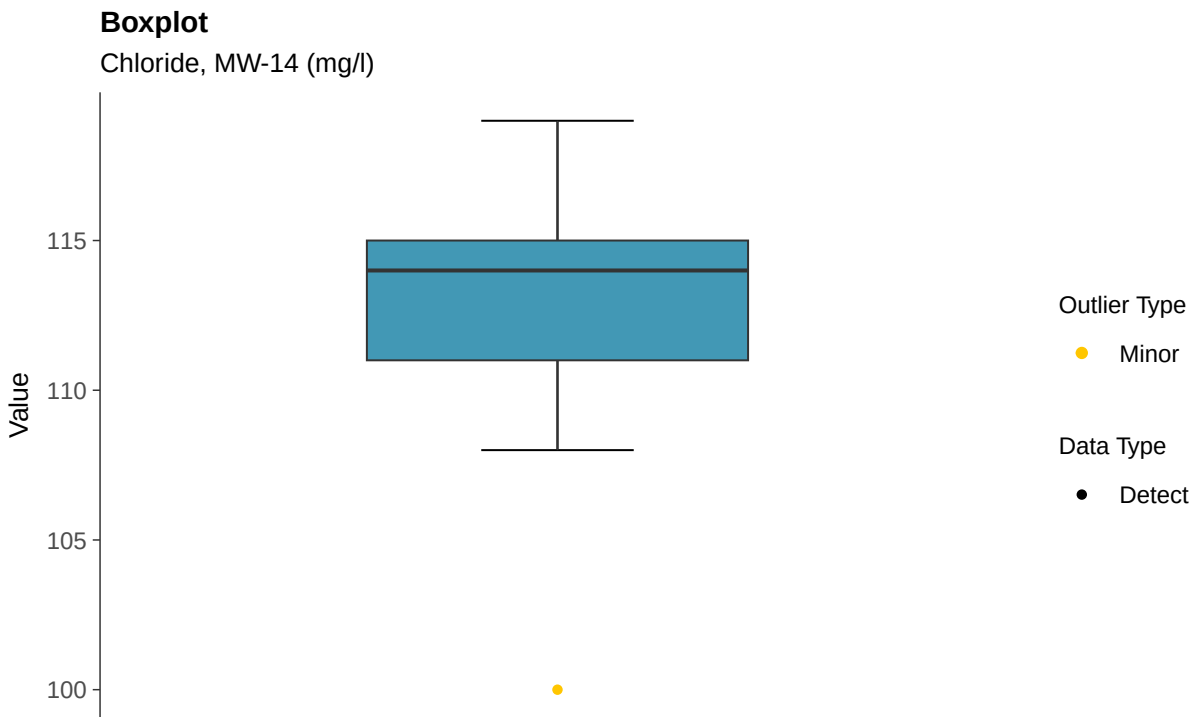


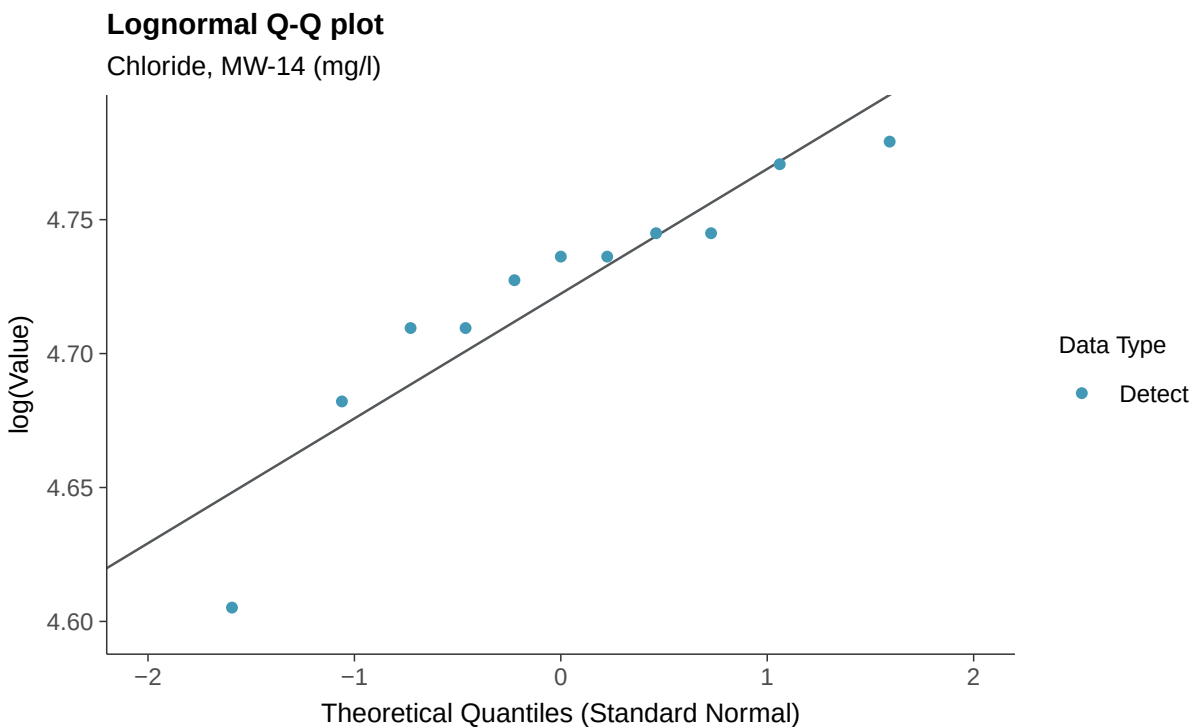
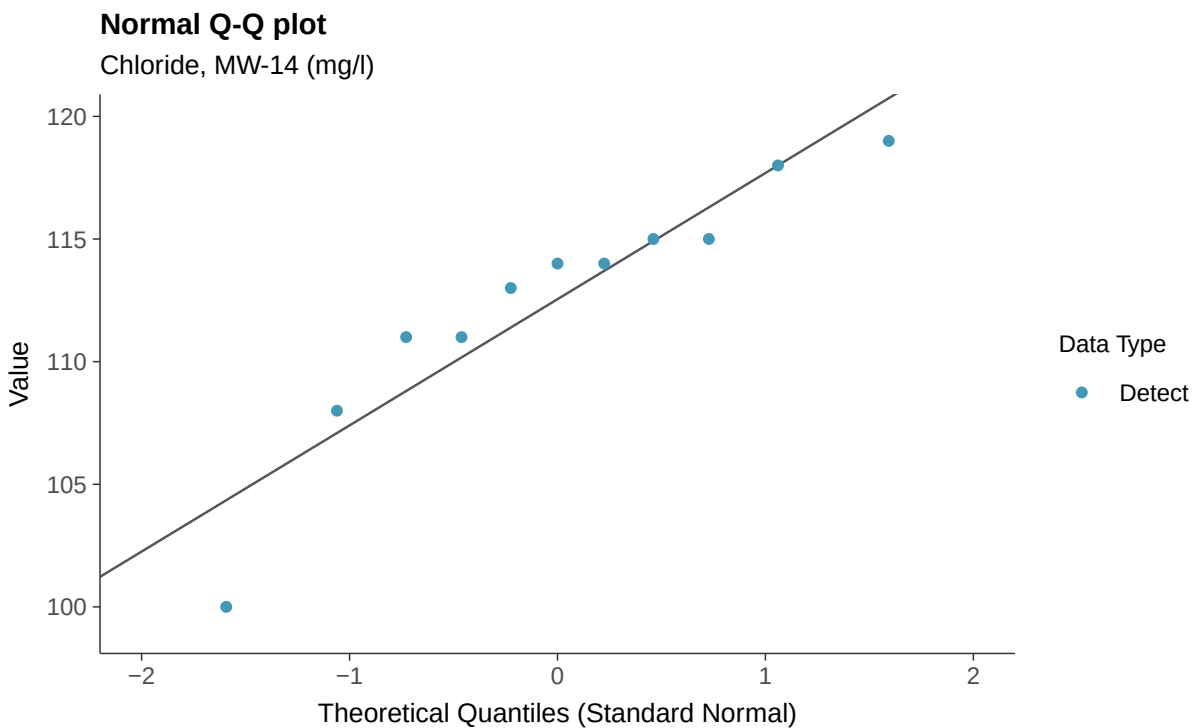


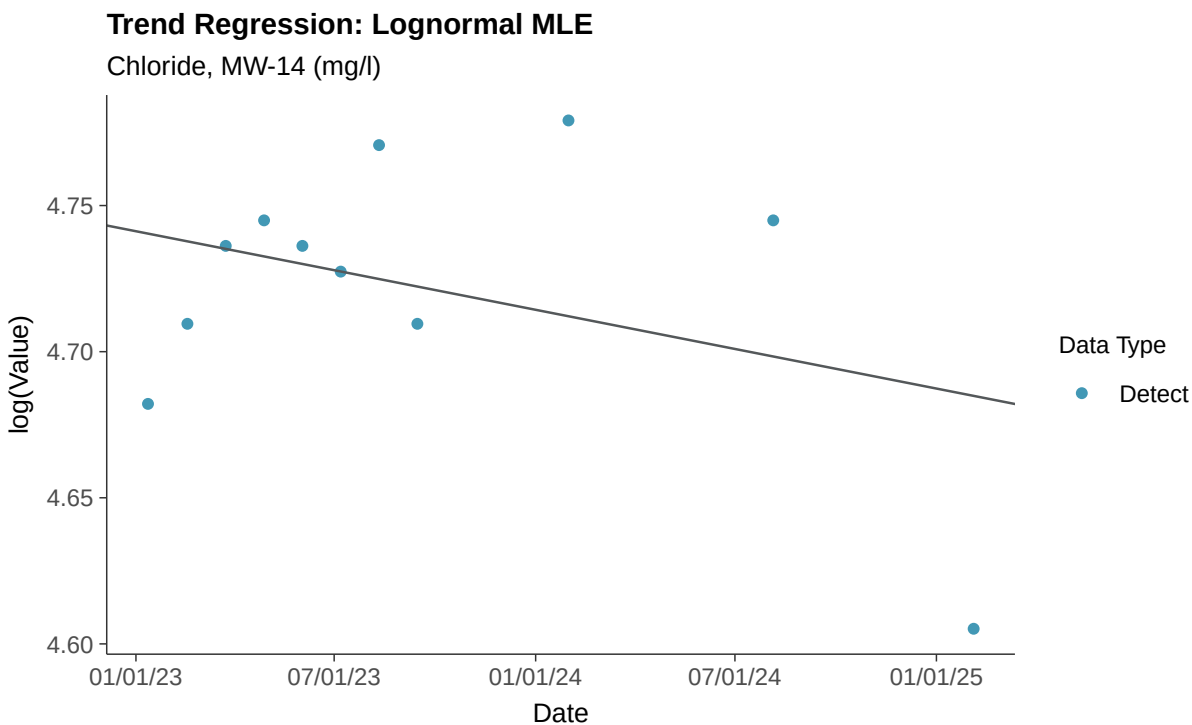
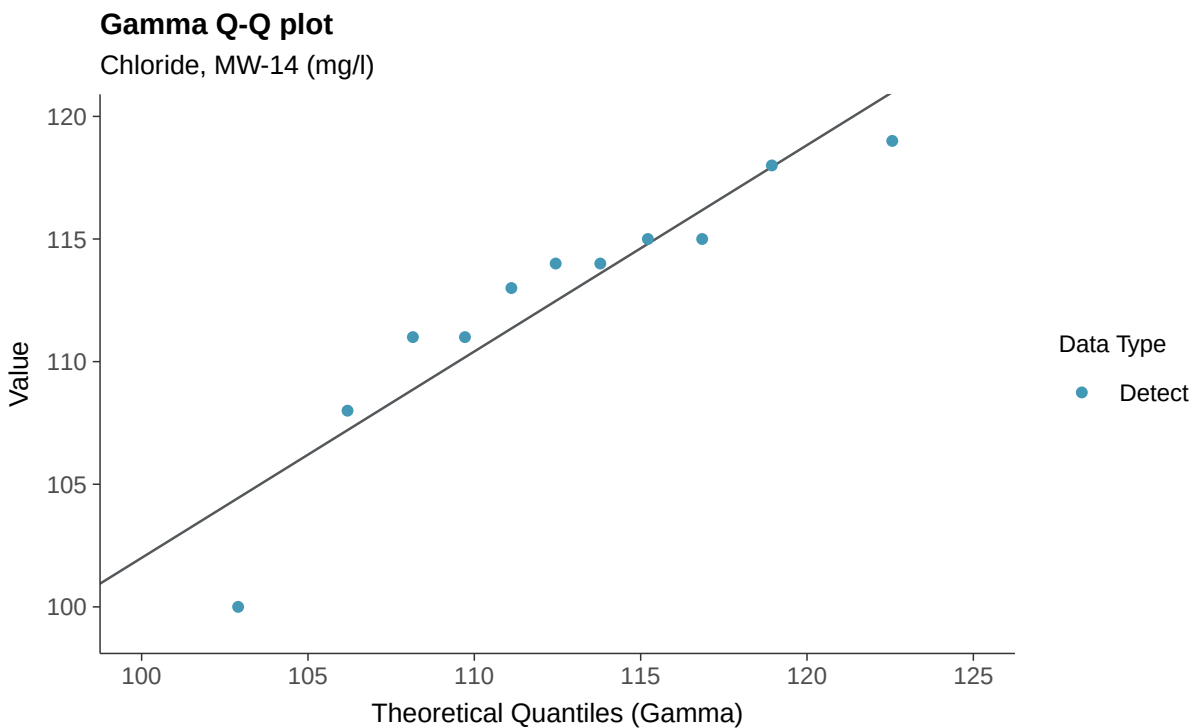
Appendix III: Chloride, MW-14

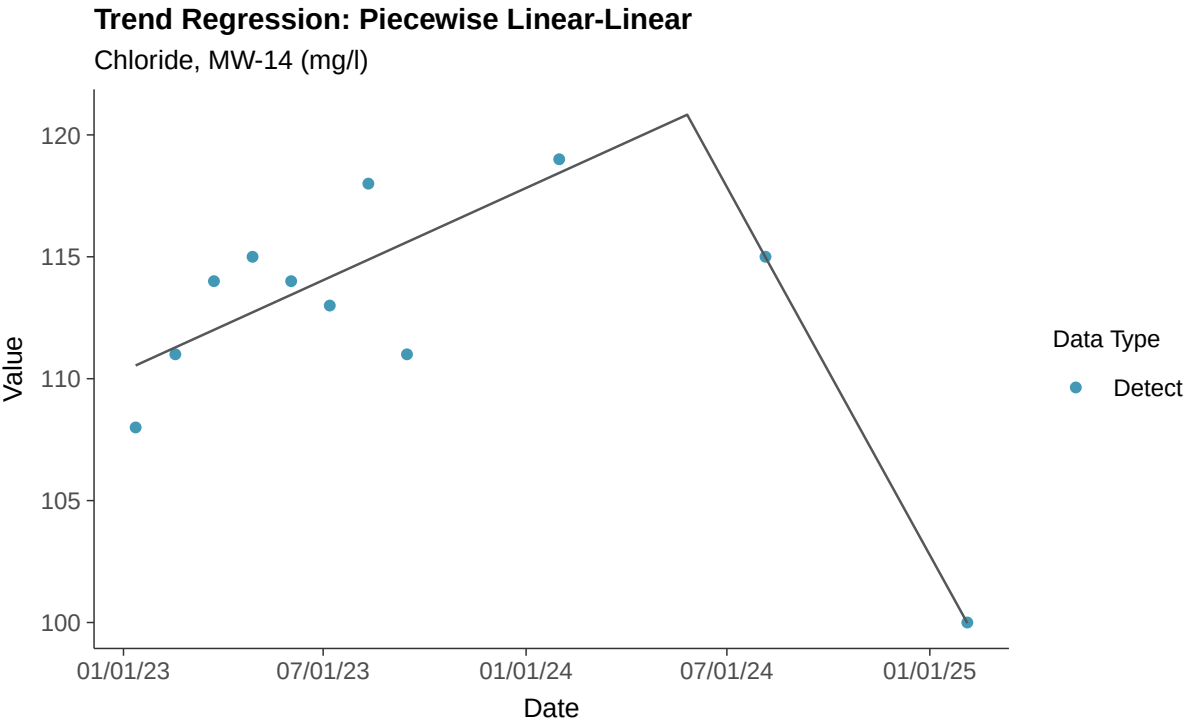
ID: 21_2_108







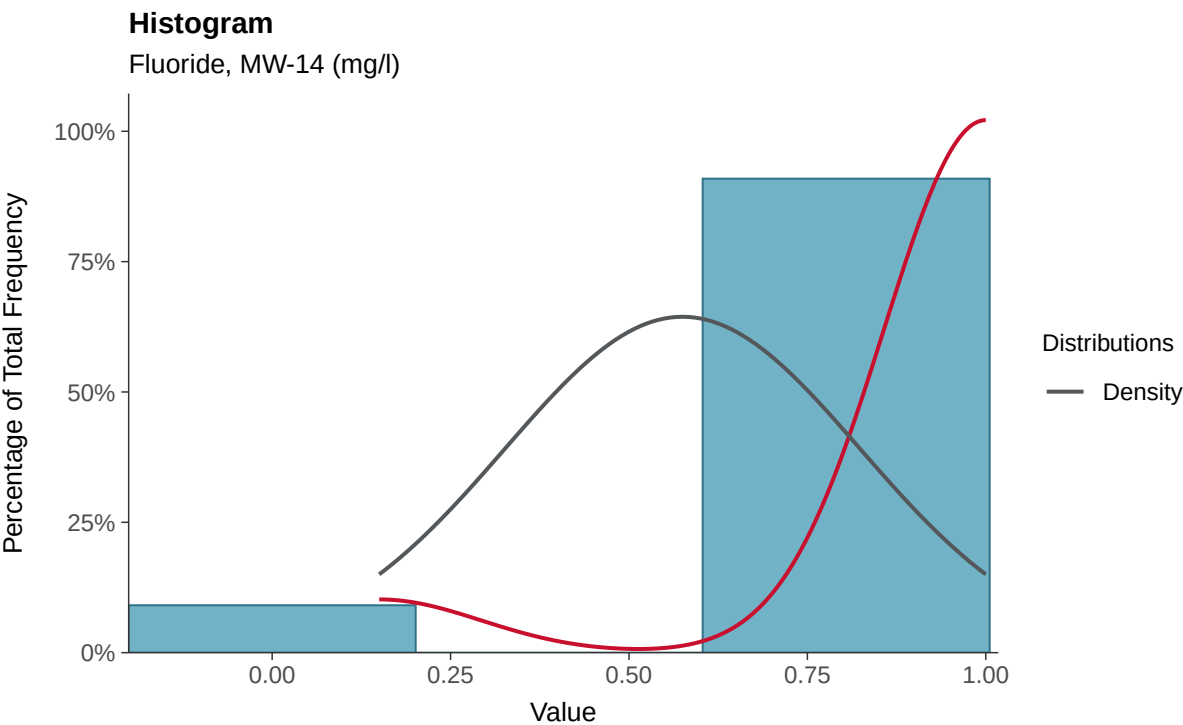
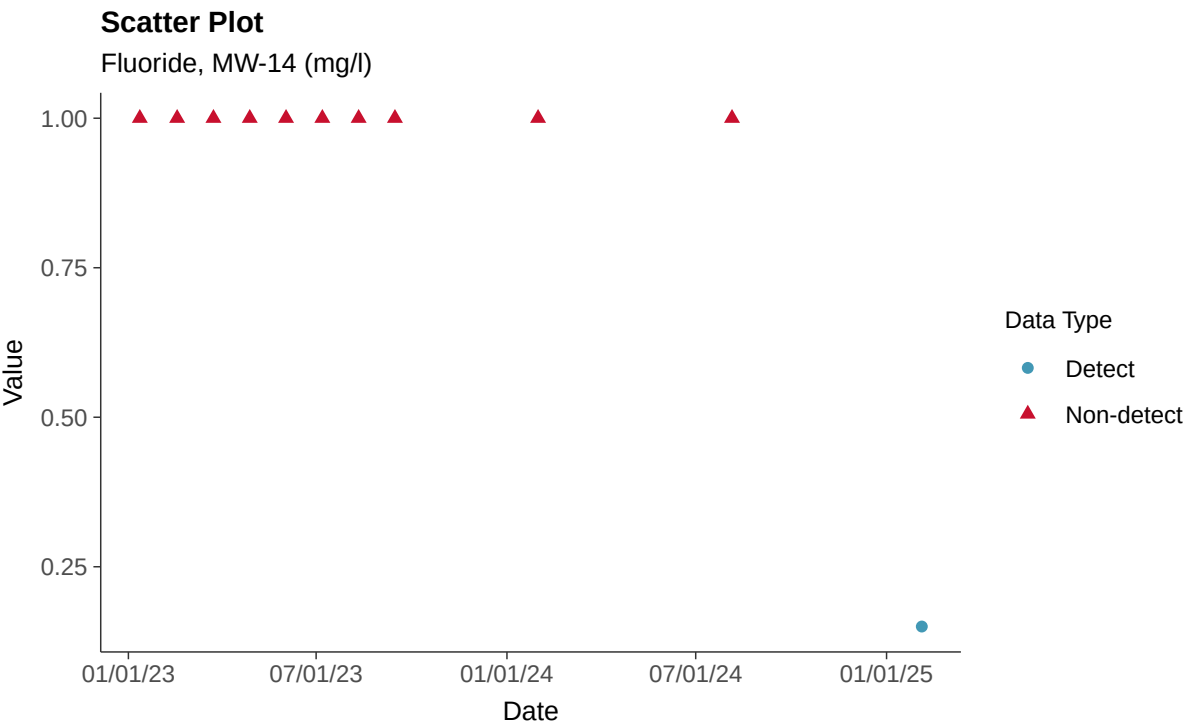


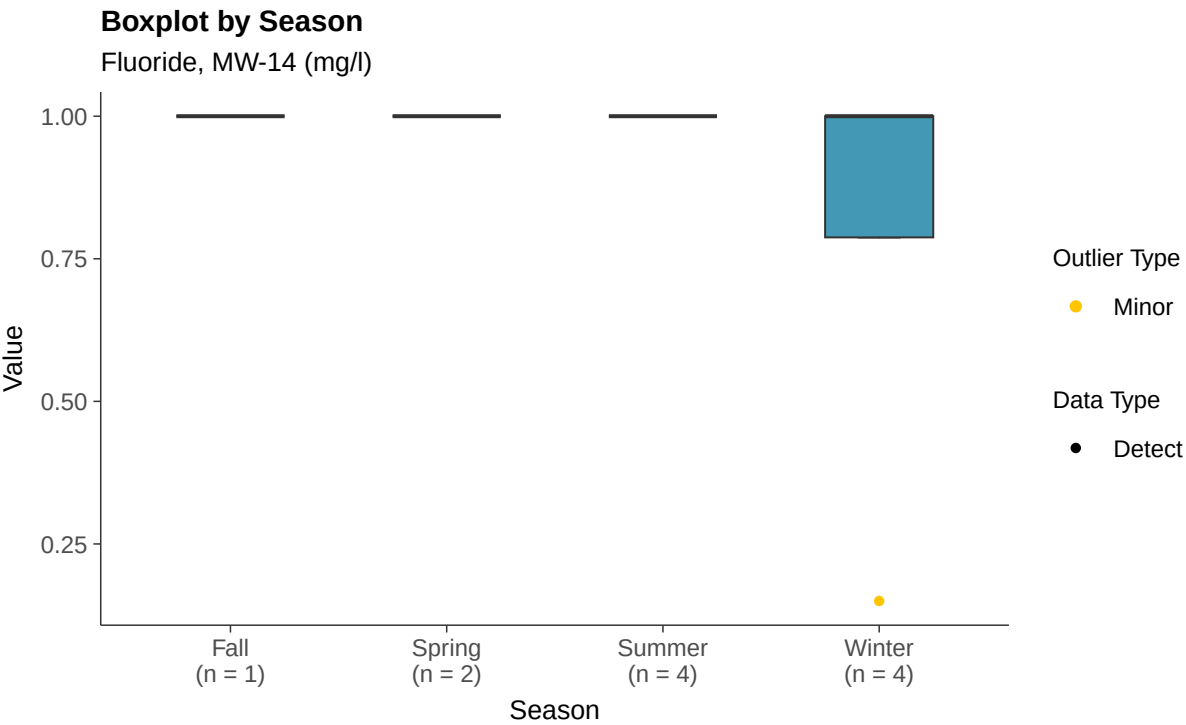
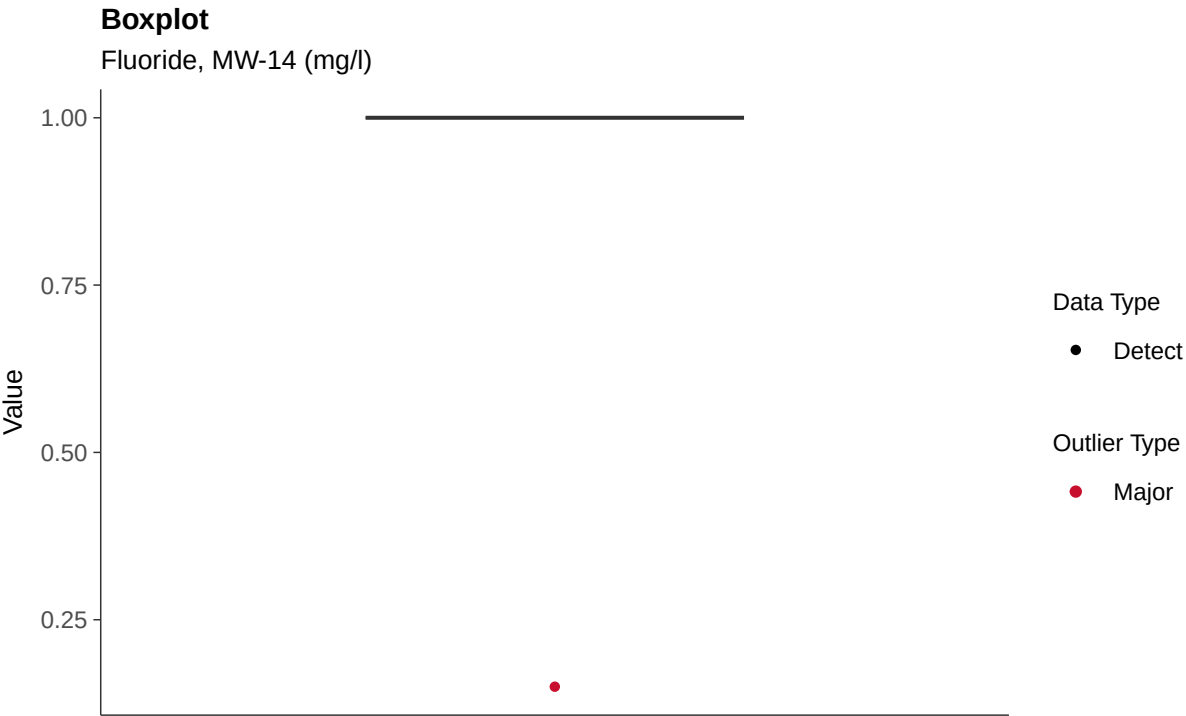




Appendix III: Fluoride, MW-14

ID: 21_2_112

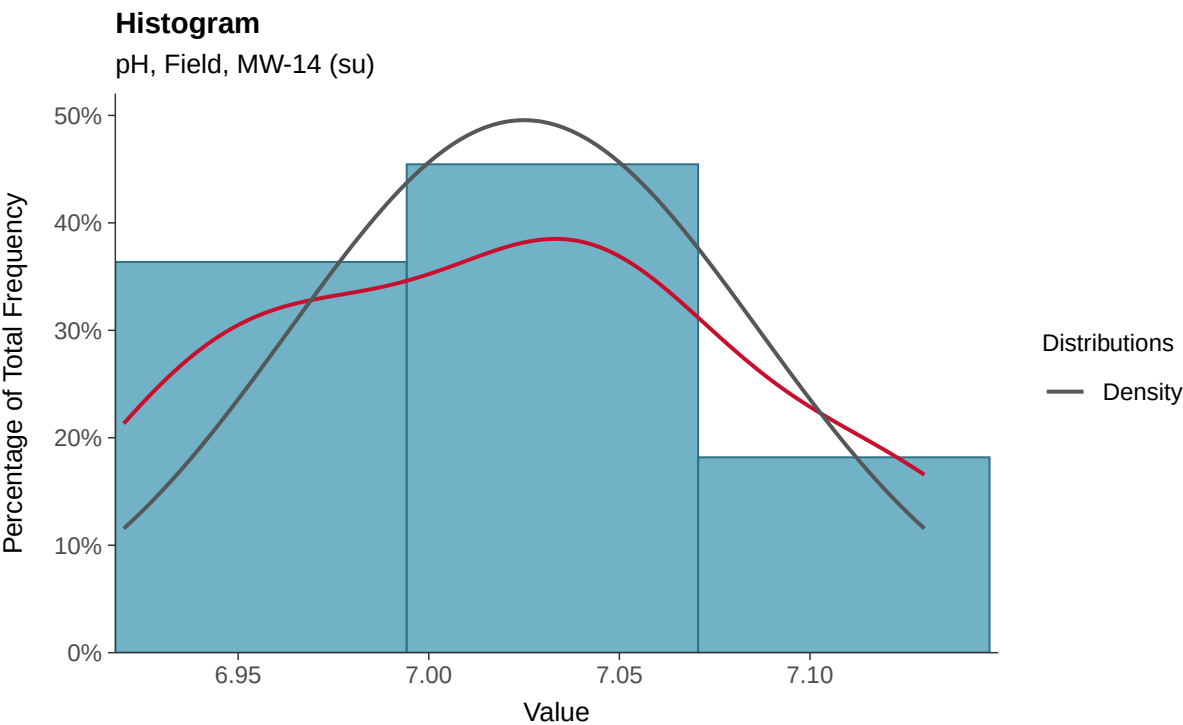
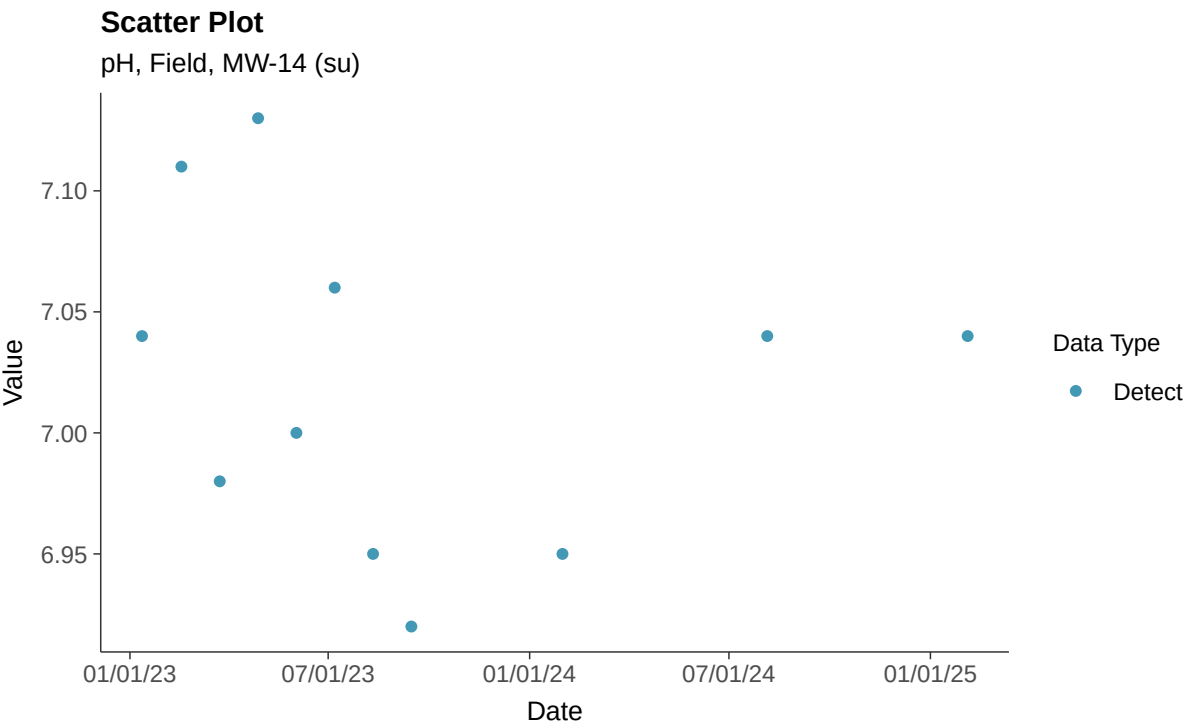


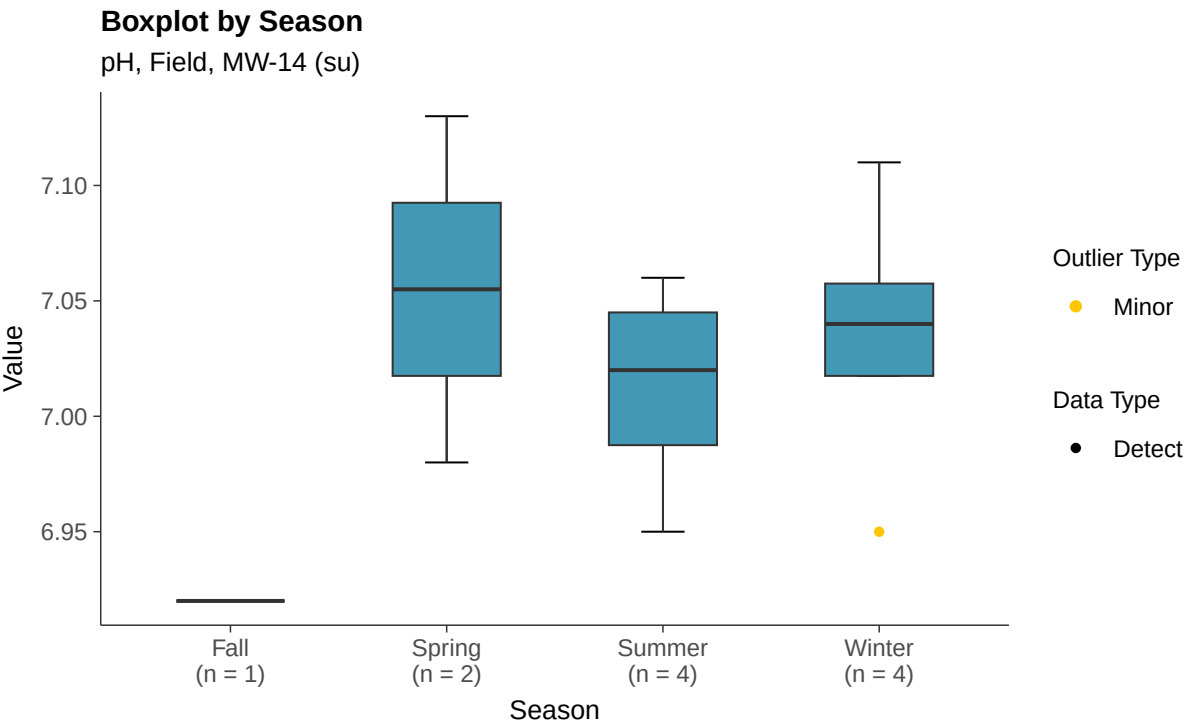
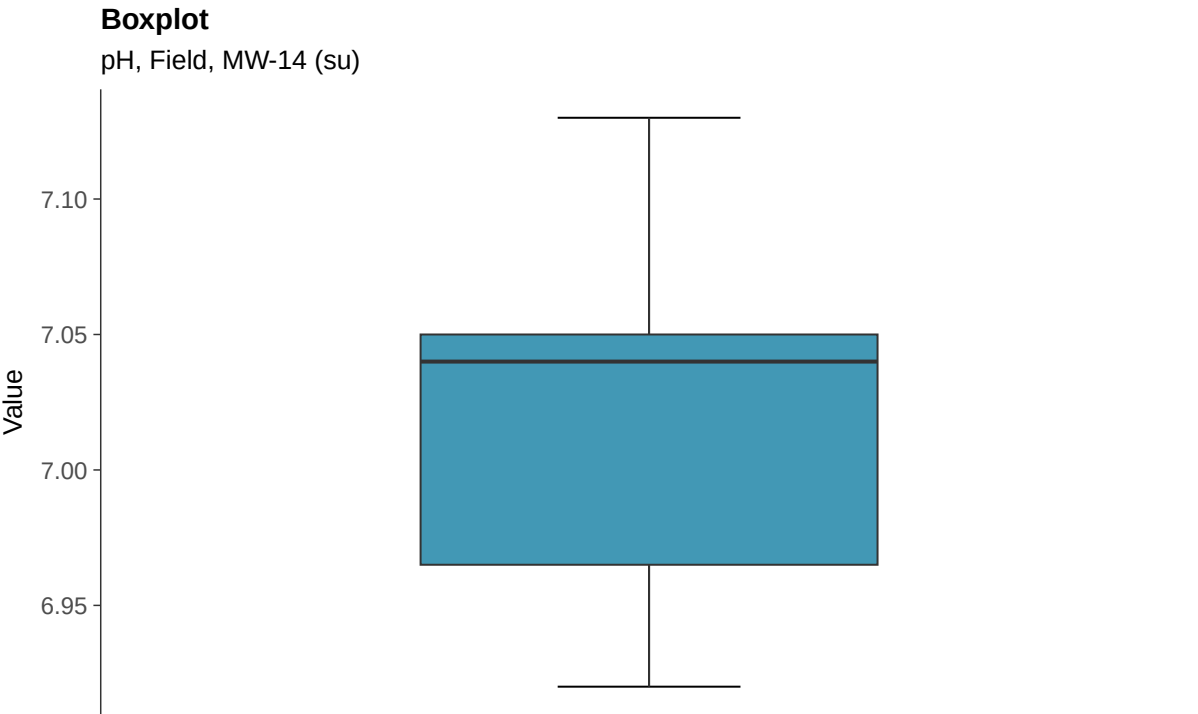


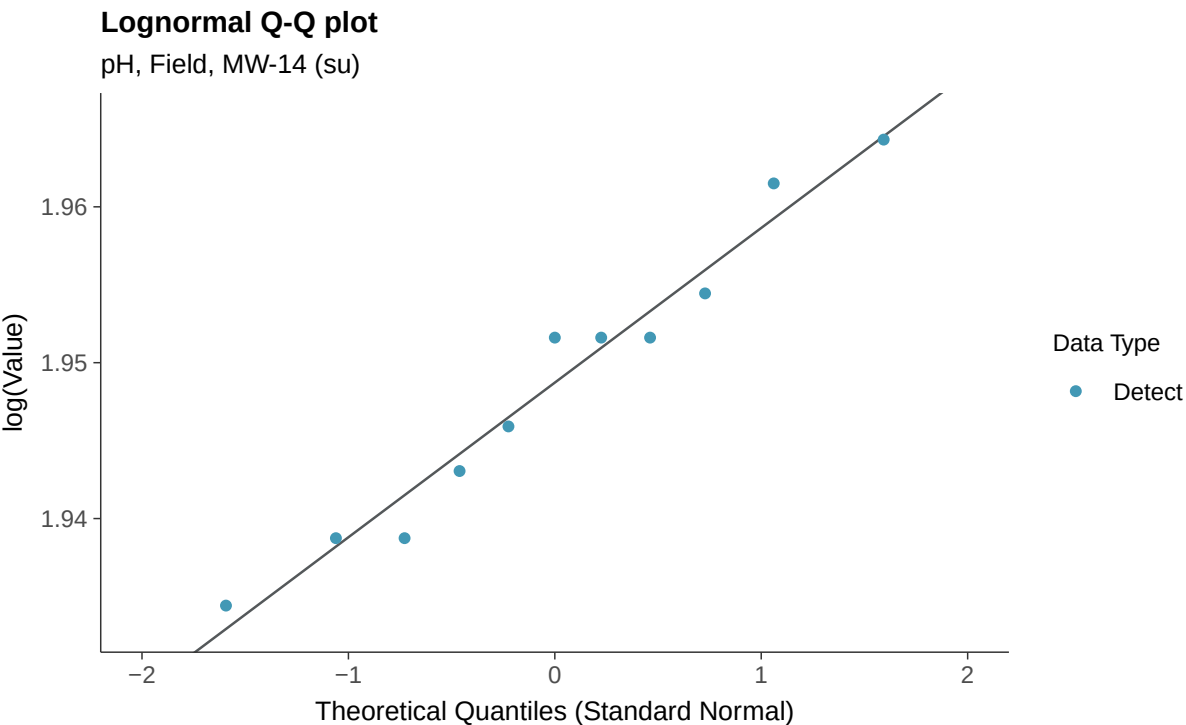
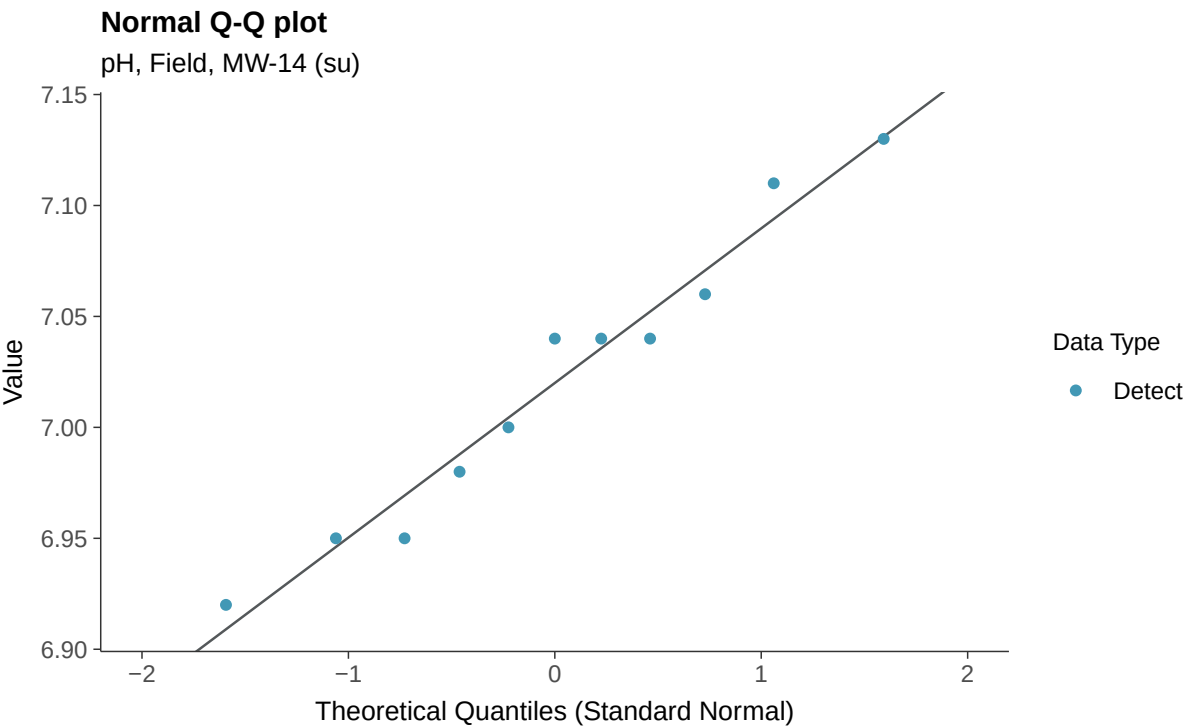


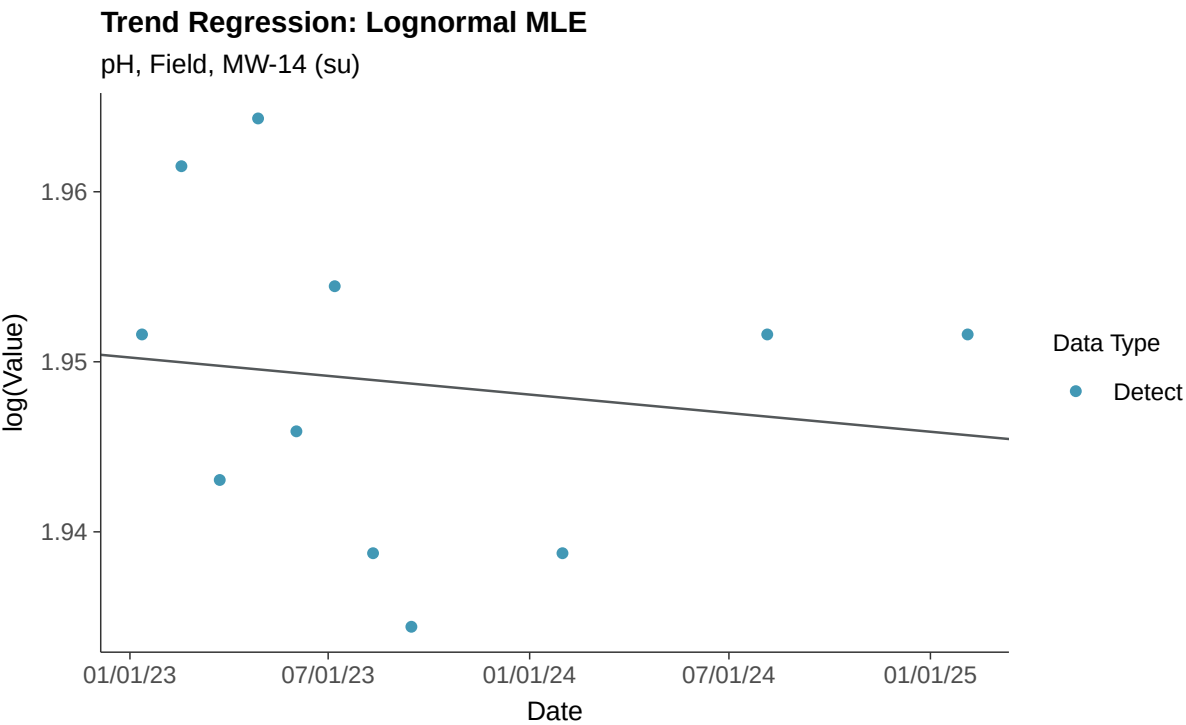
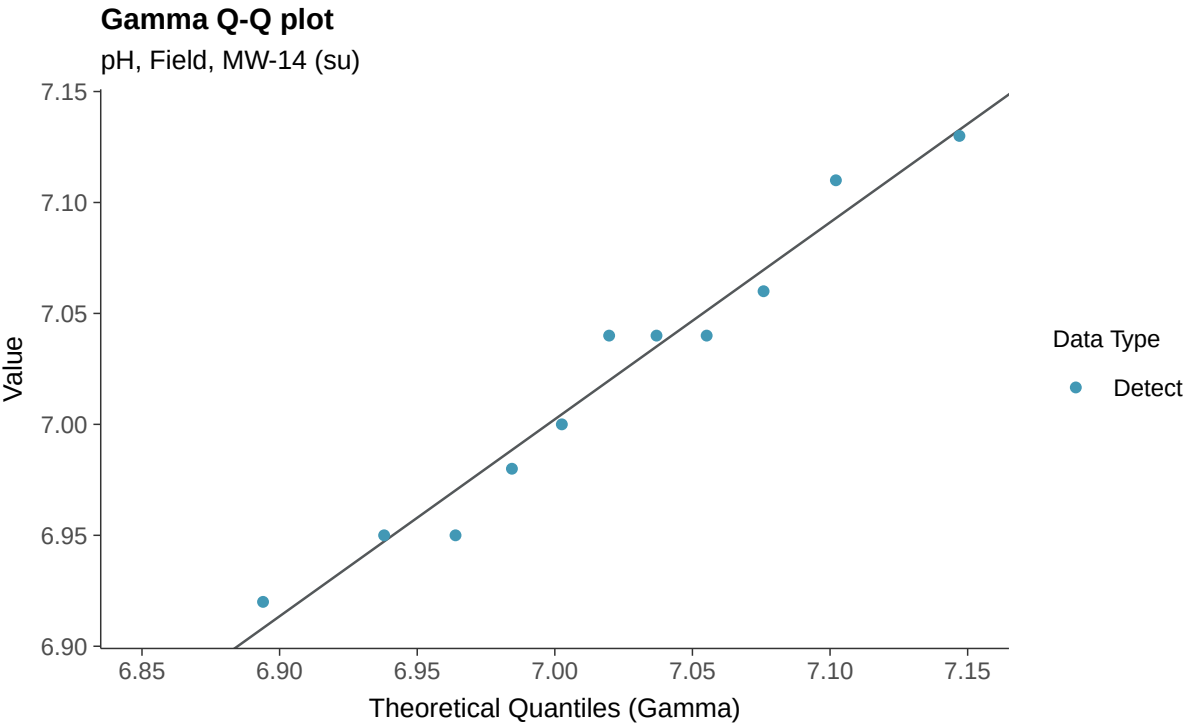
Appendix III: pH, Field, MW-14

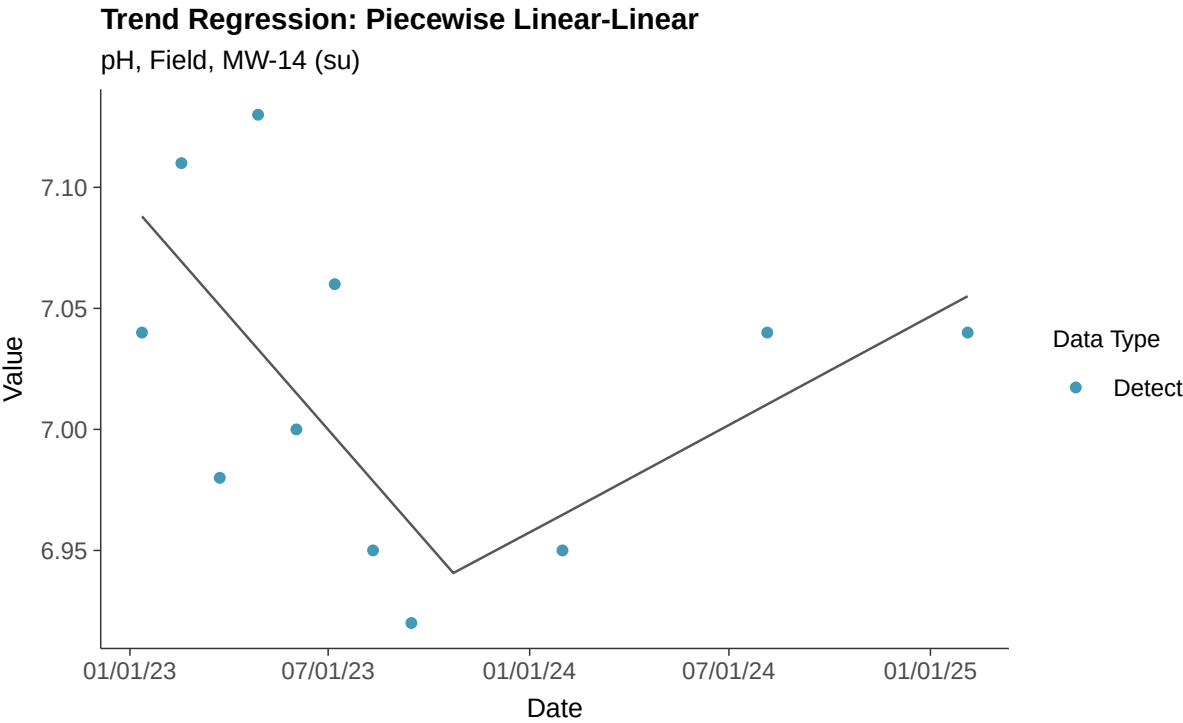
ID: 21_2_120







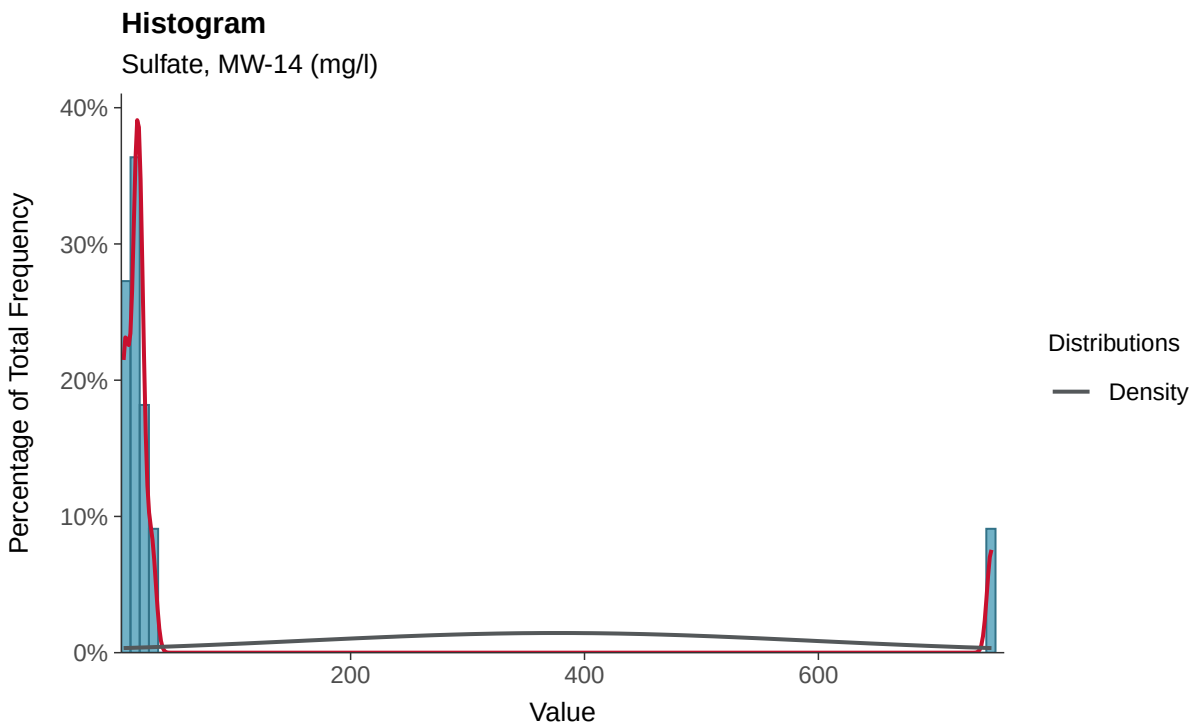
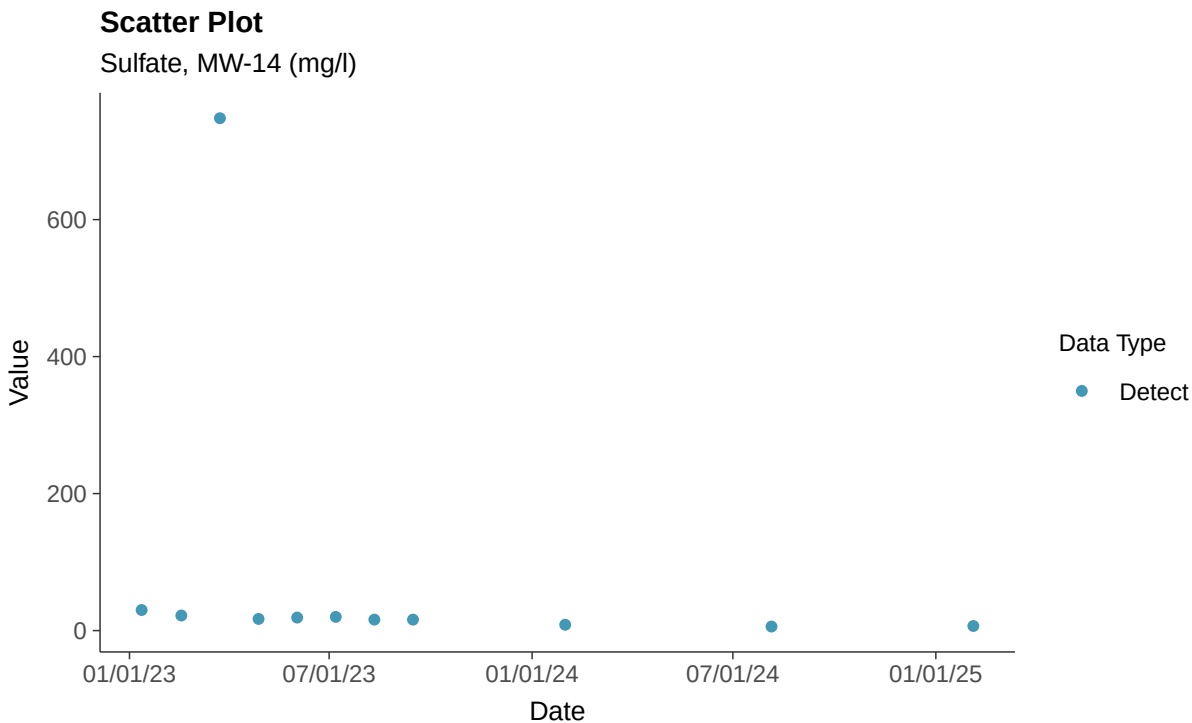


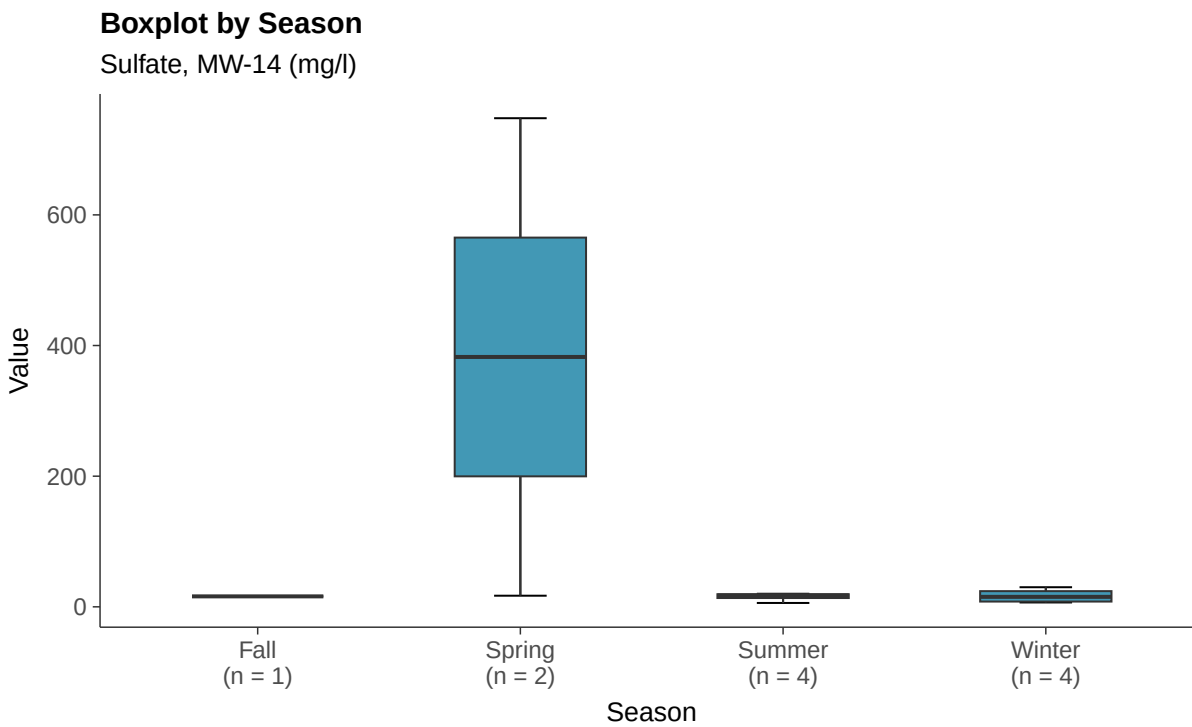


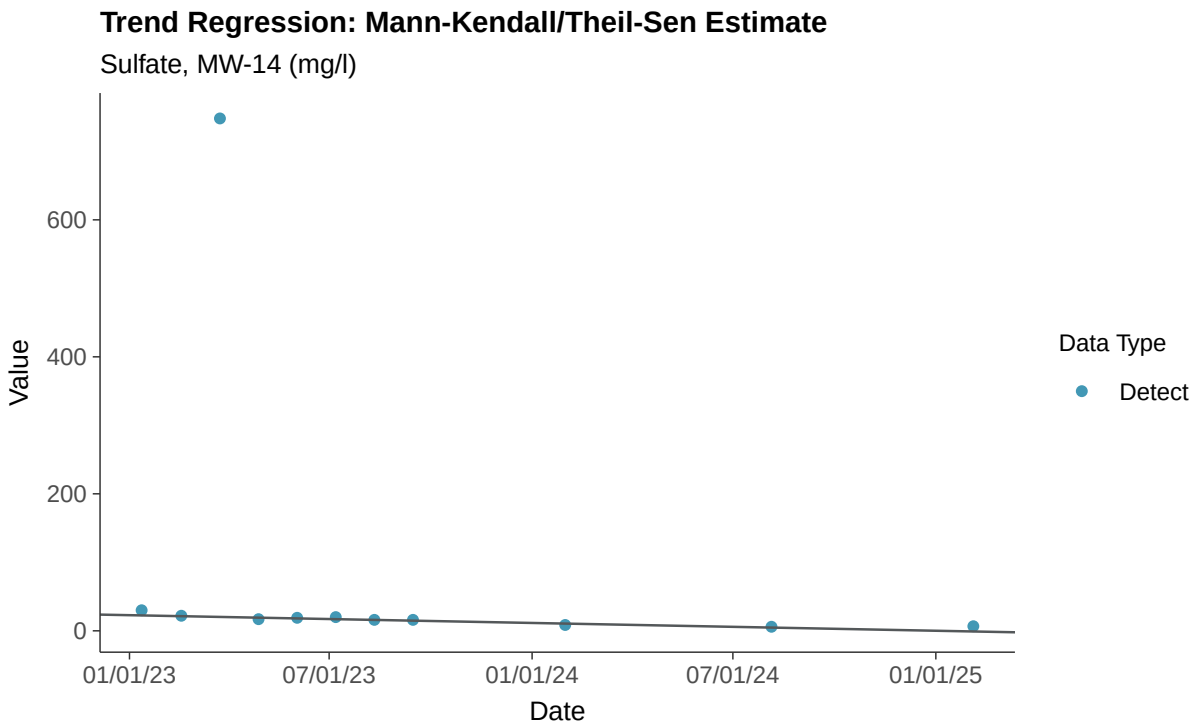
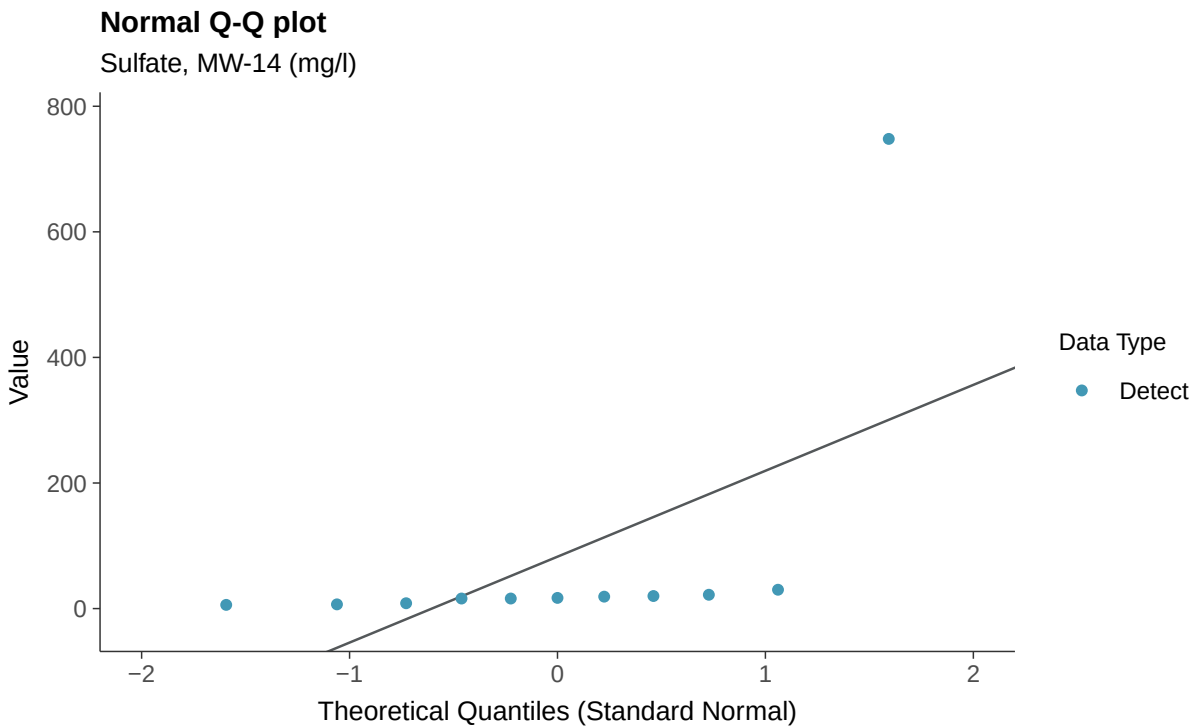


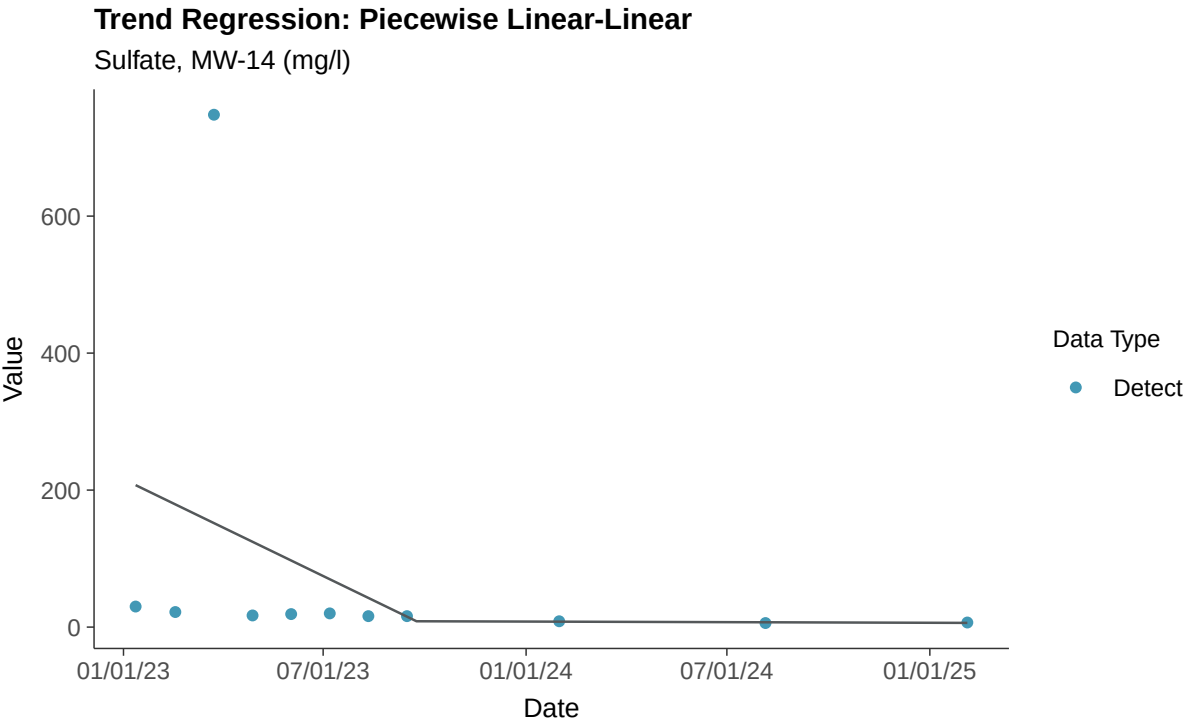
Appendix III: Sulfate, MW-14

ID: 21_2_124





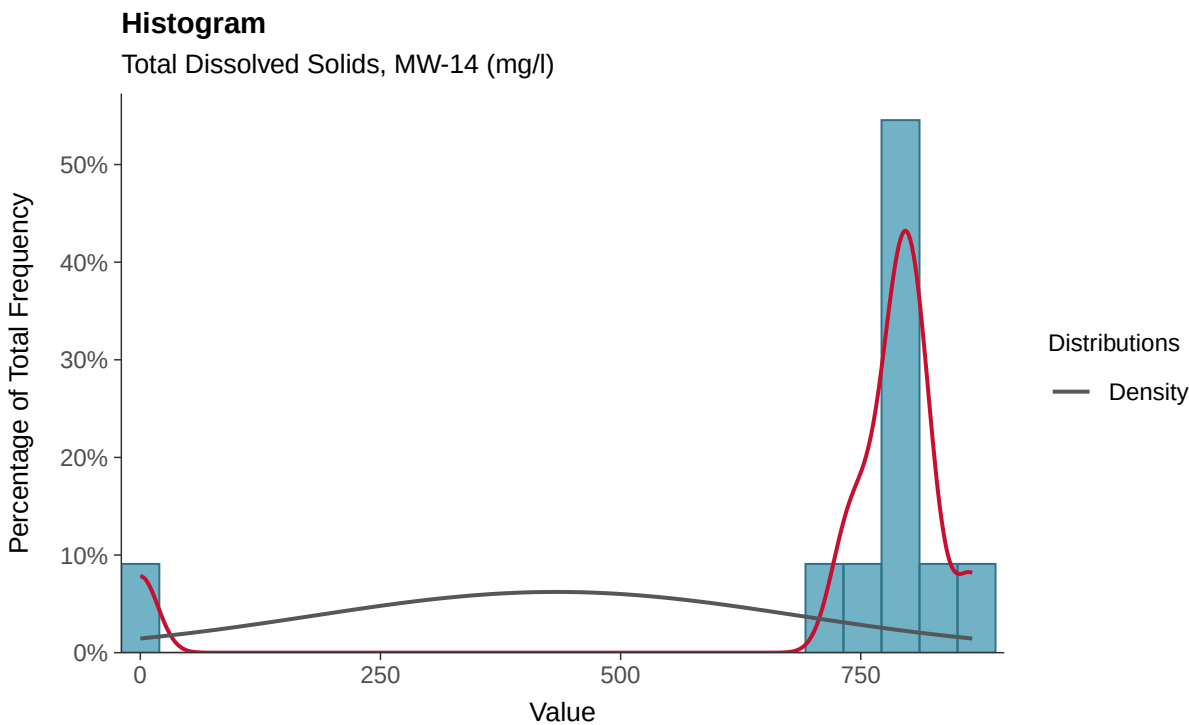
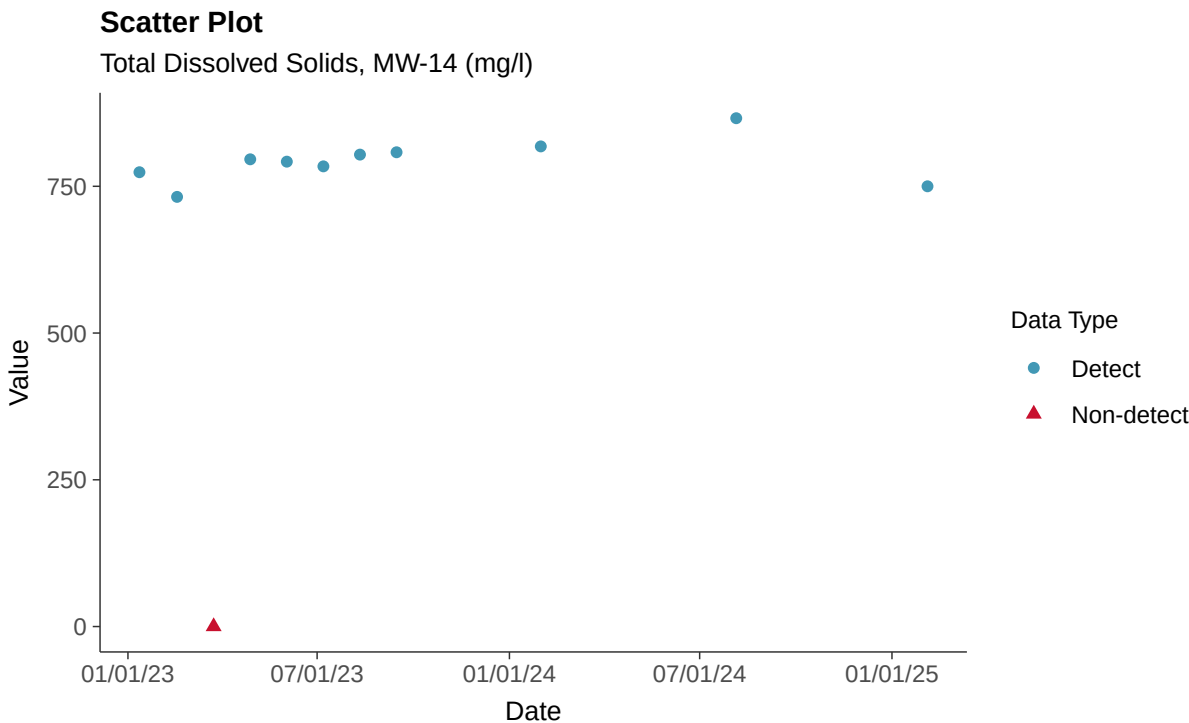


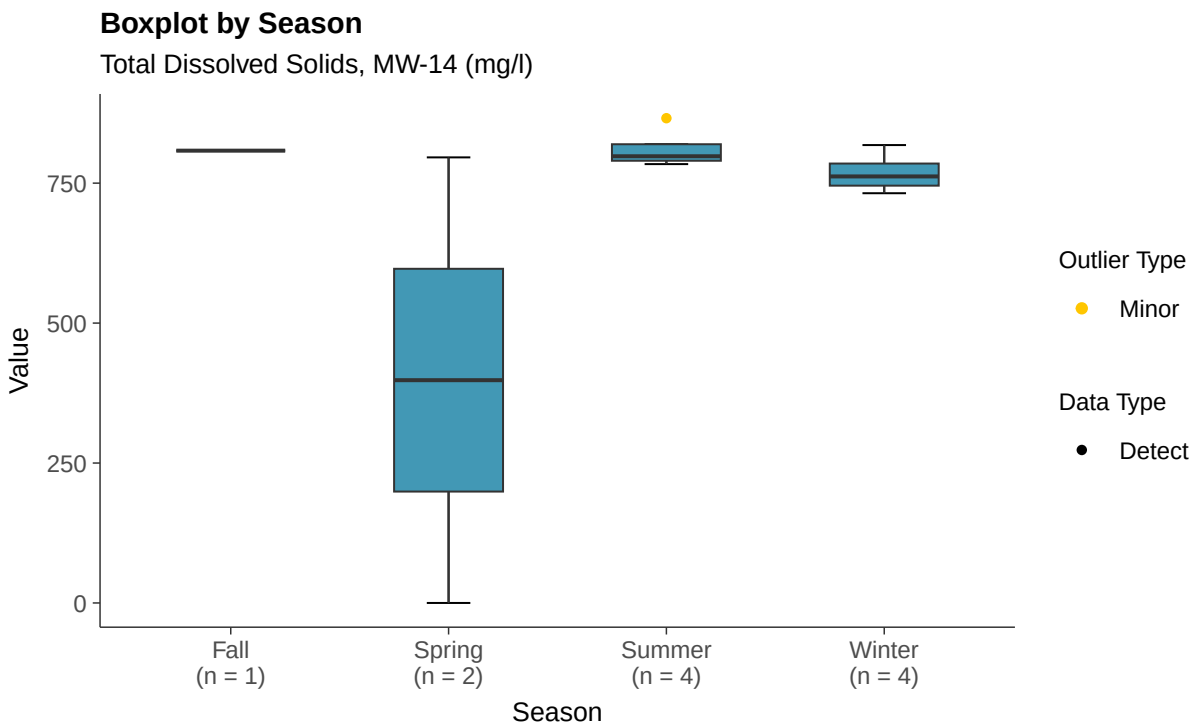


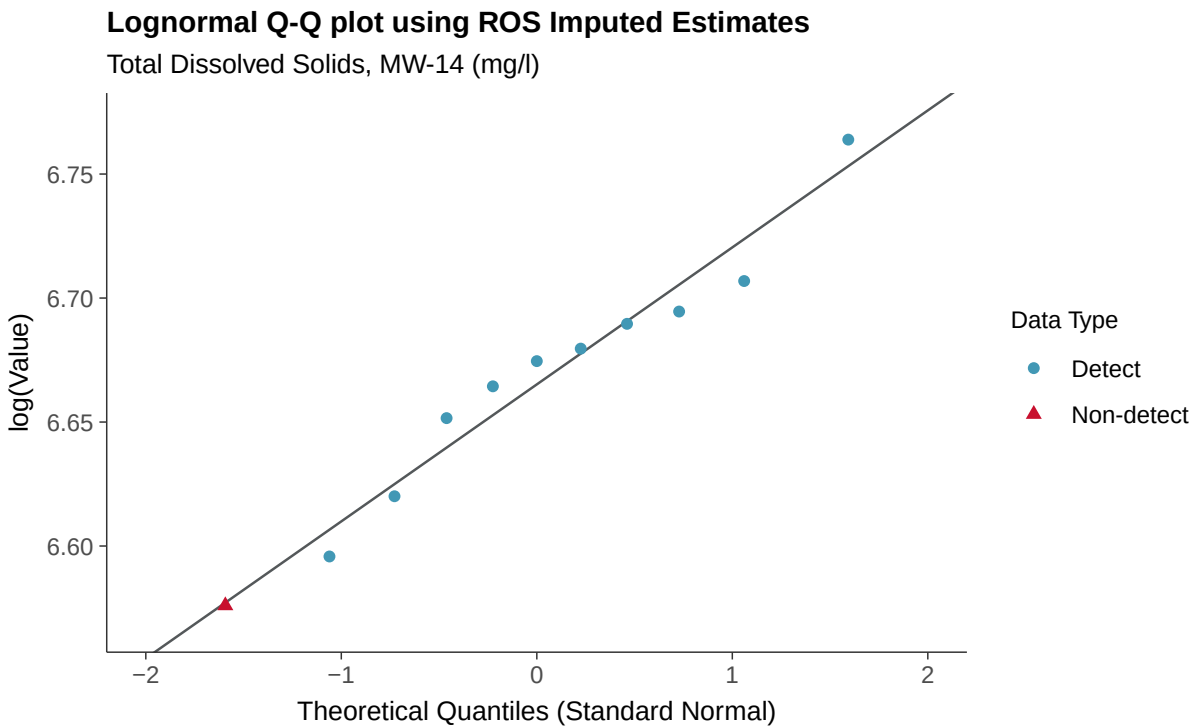
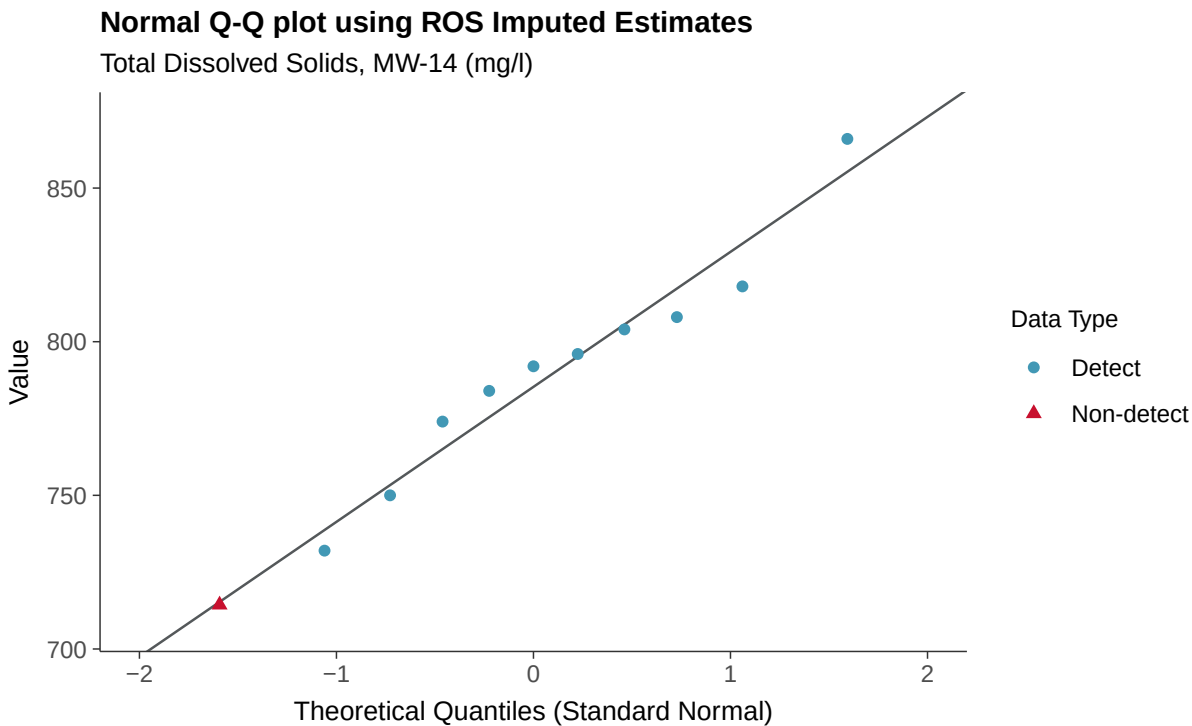


Appendix III: Total Dissolved Solids, MW-14

ID: 21_2_126



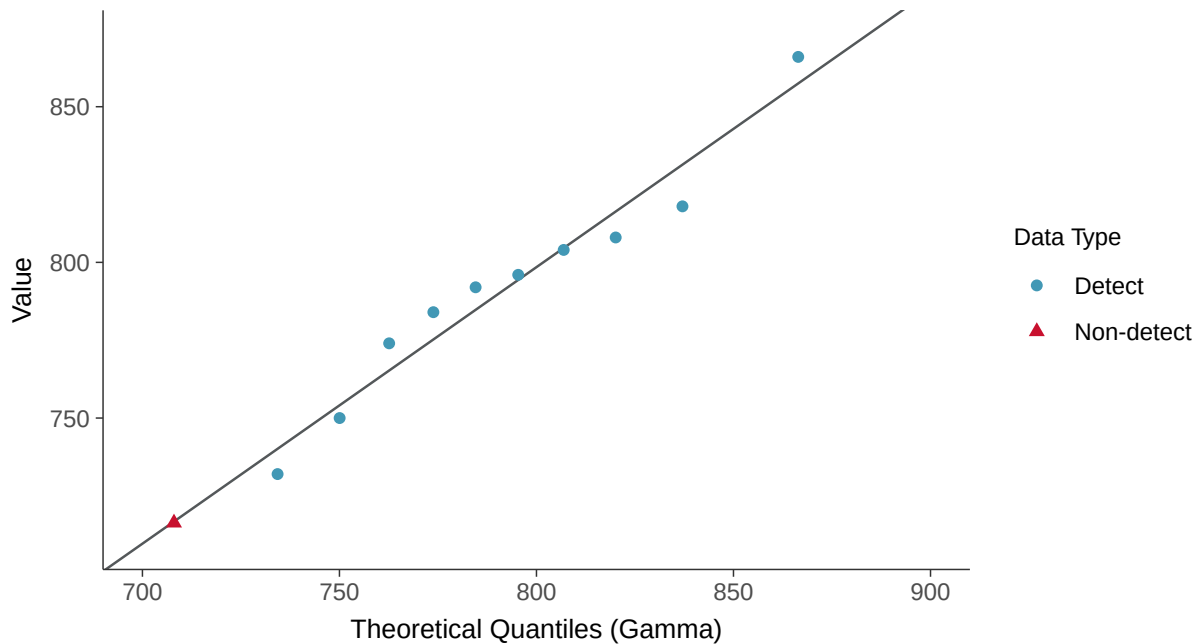






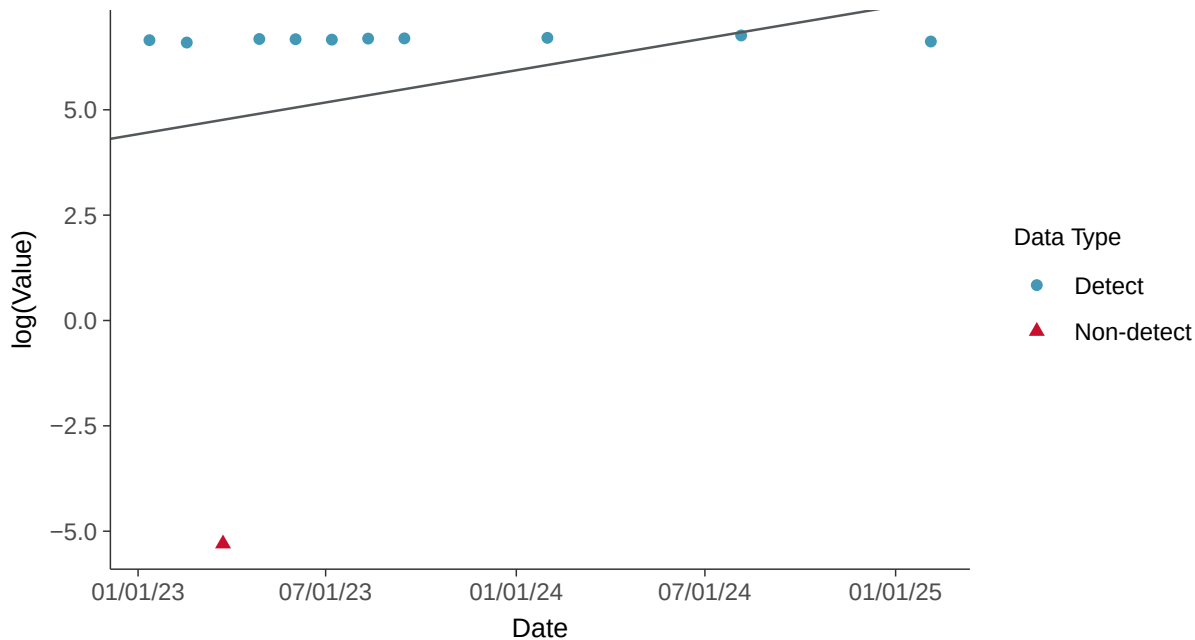
Gamma Q-Q plot using ROS Imputed Estimates

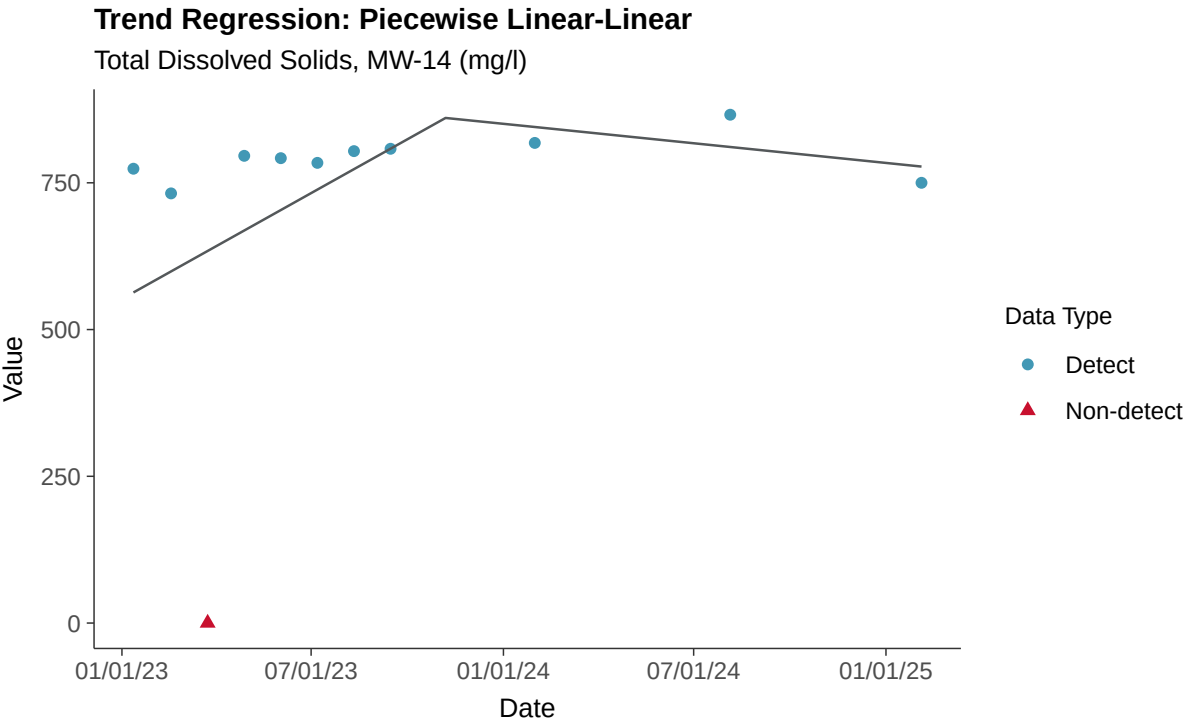
Total Dissolved Solids, MW-14 (mg/l)



Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-14 (mg/l)

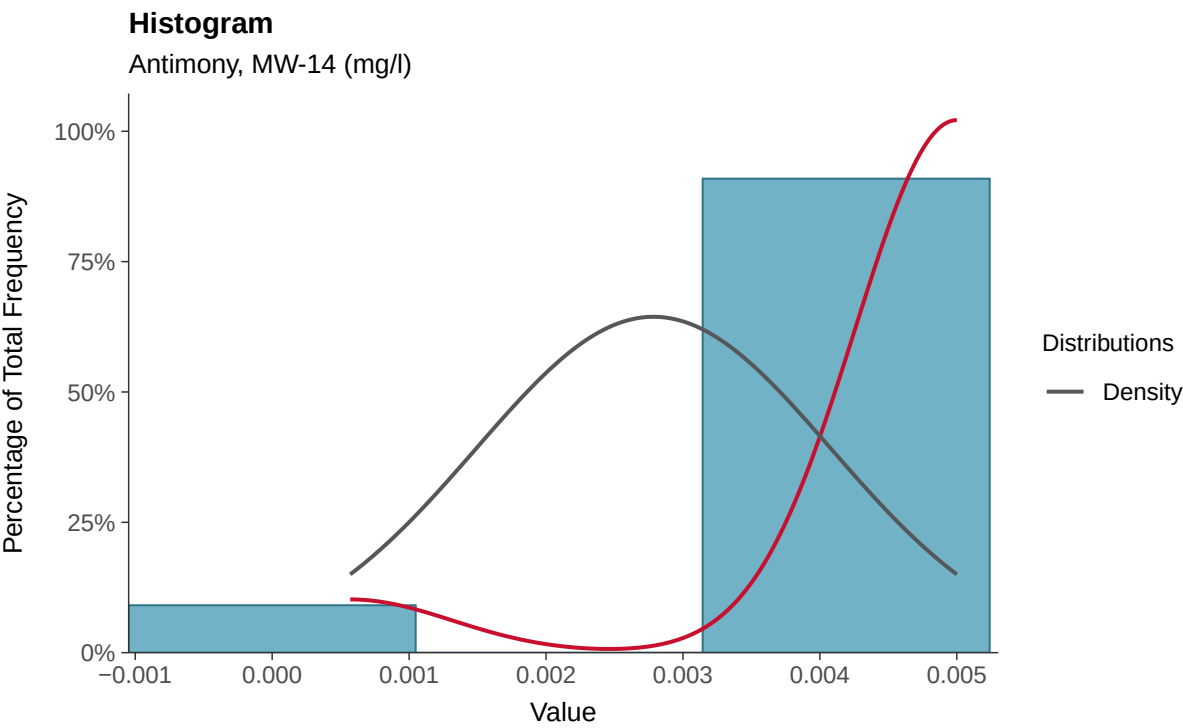
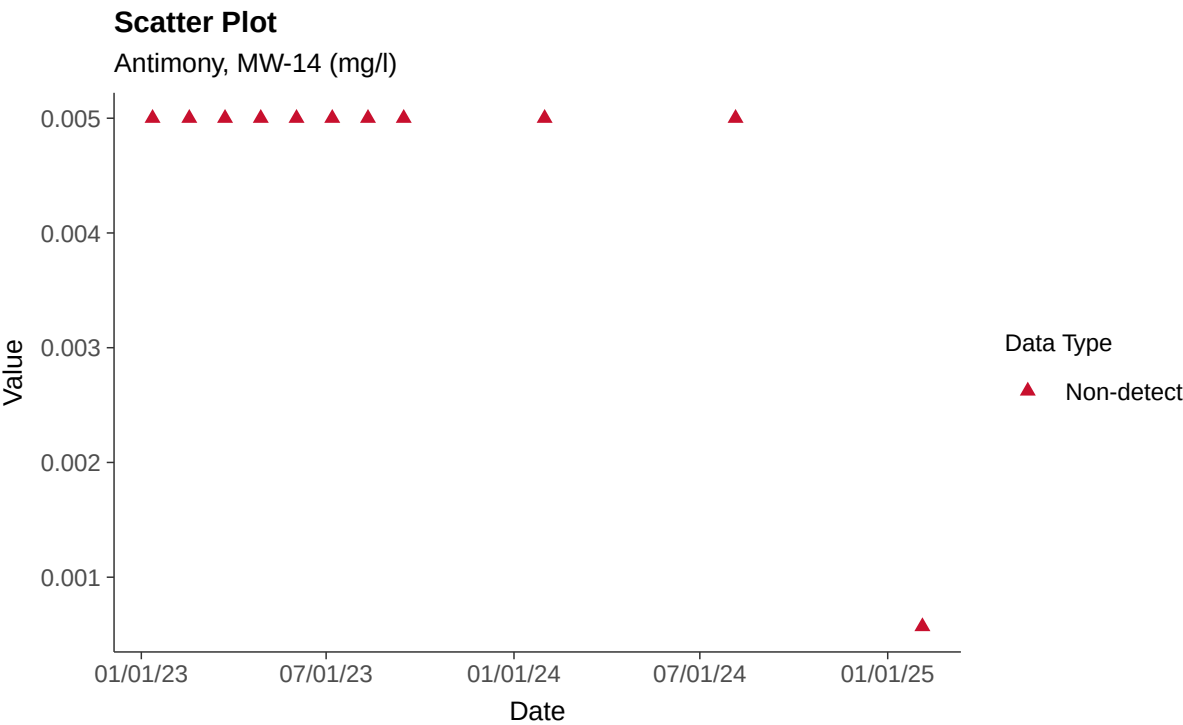


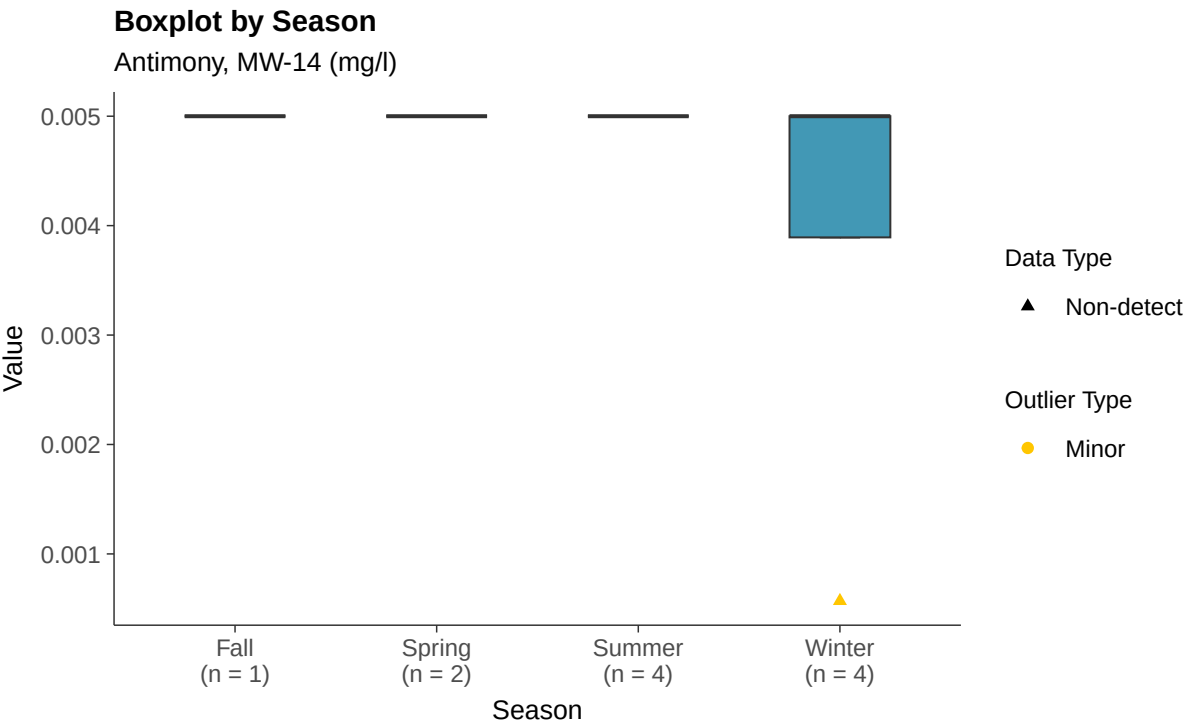
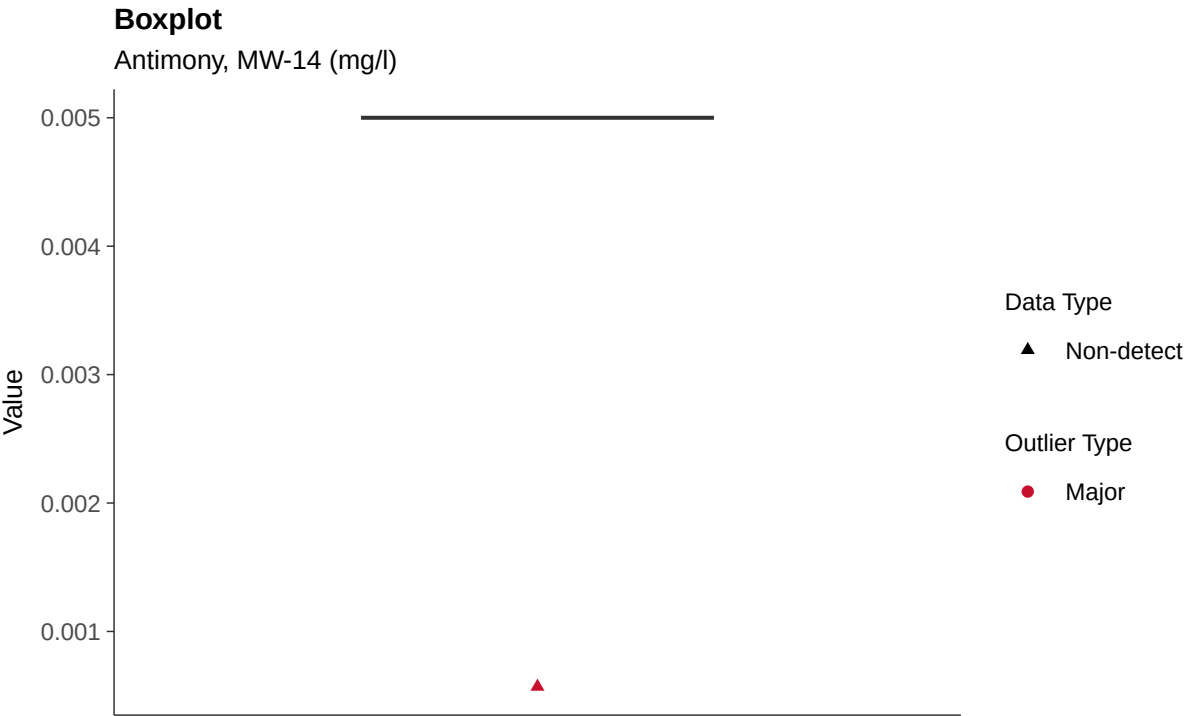




Appendix IV: Antimony, MW-14

ID: 21_3_101

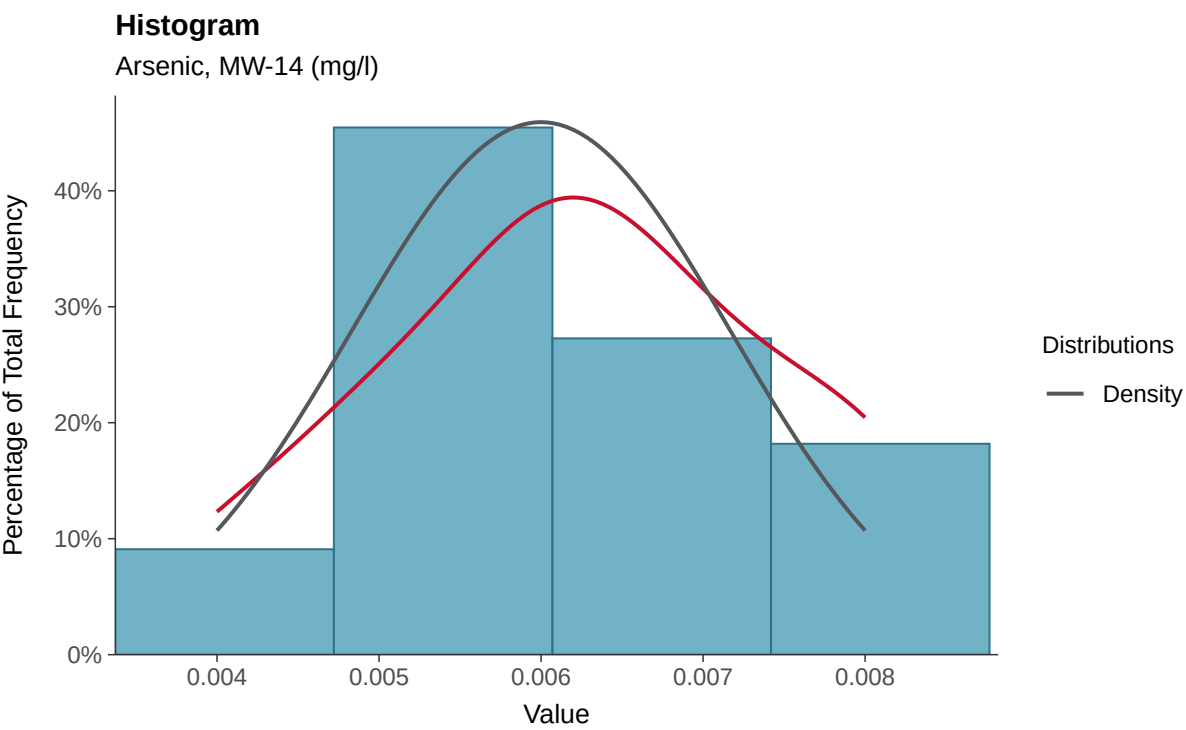
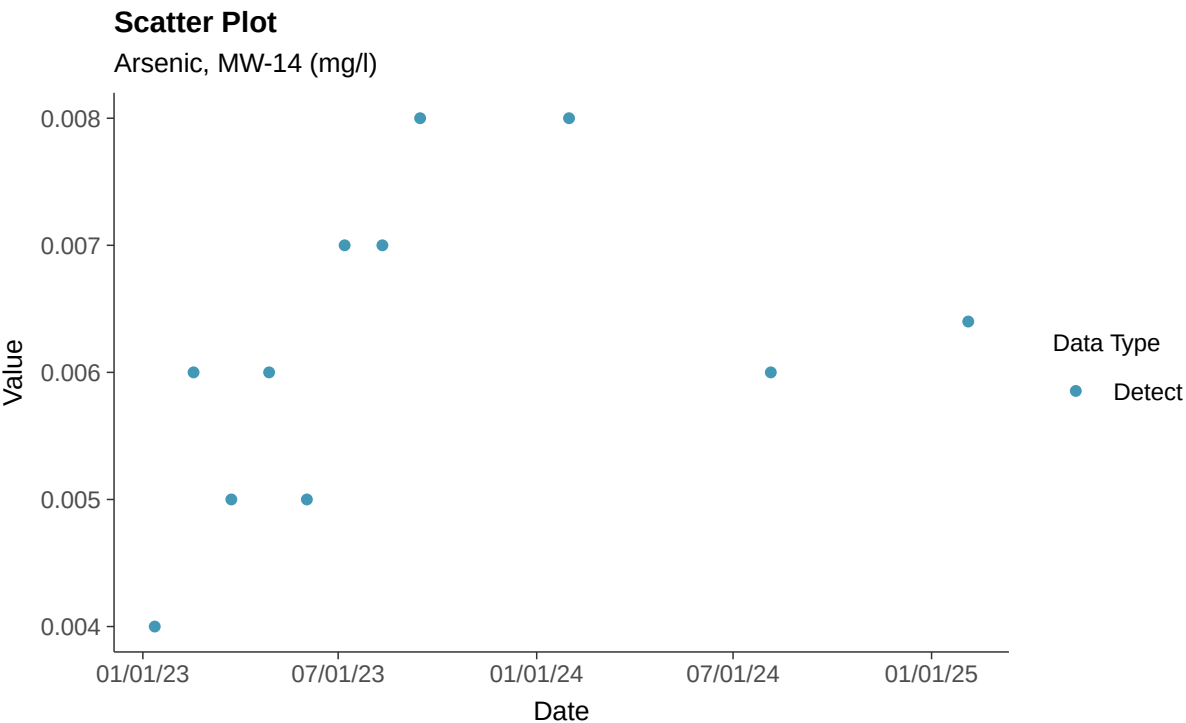


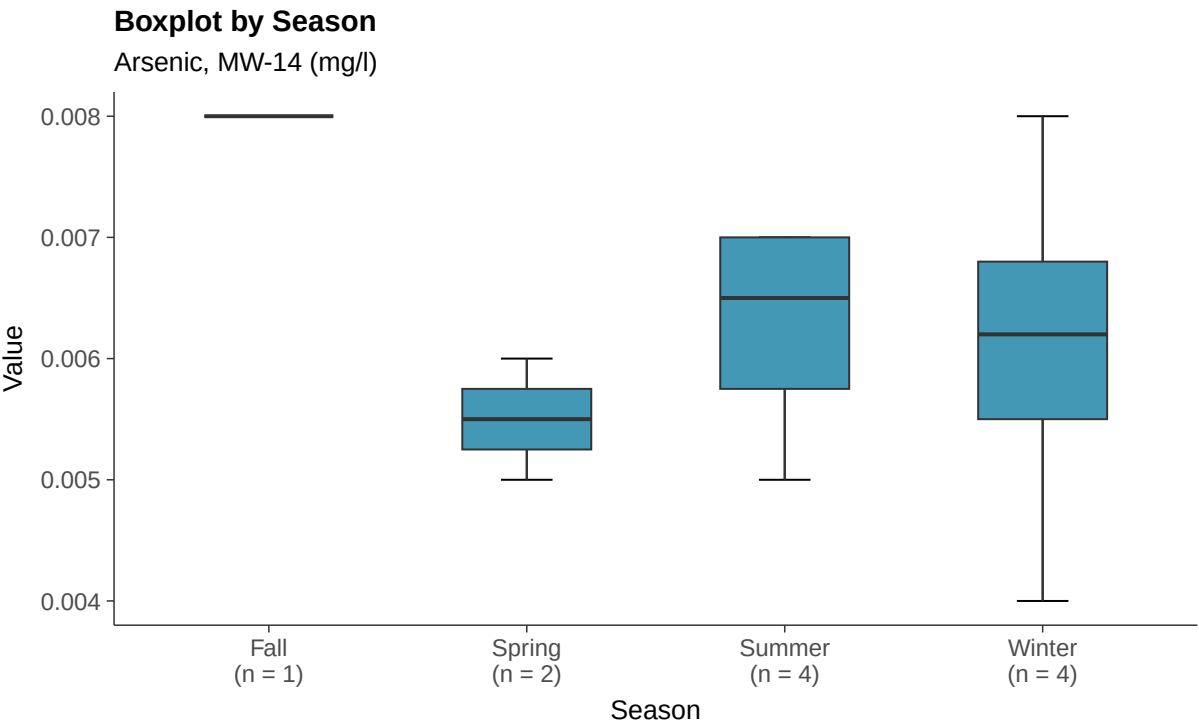
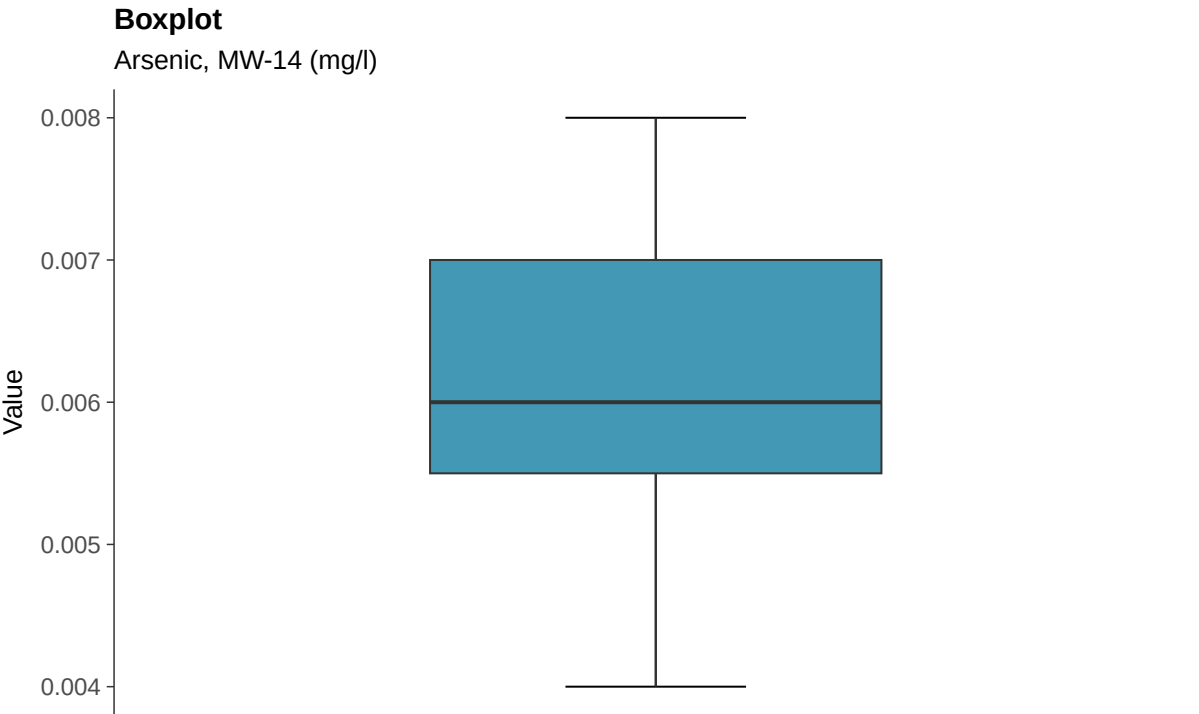


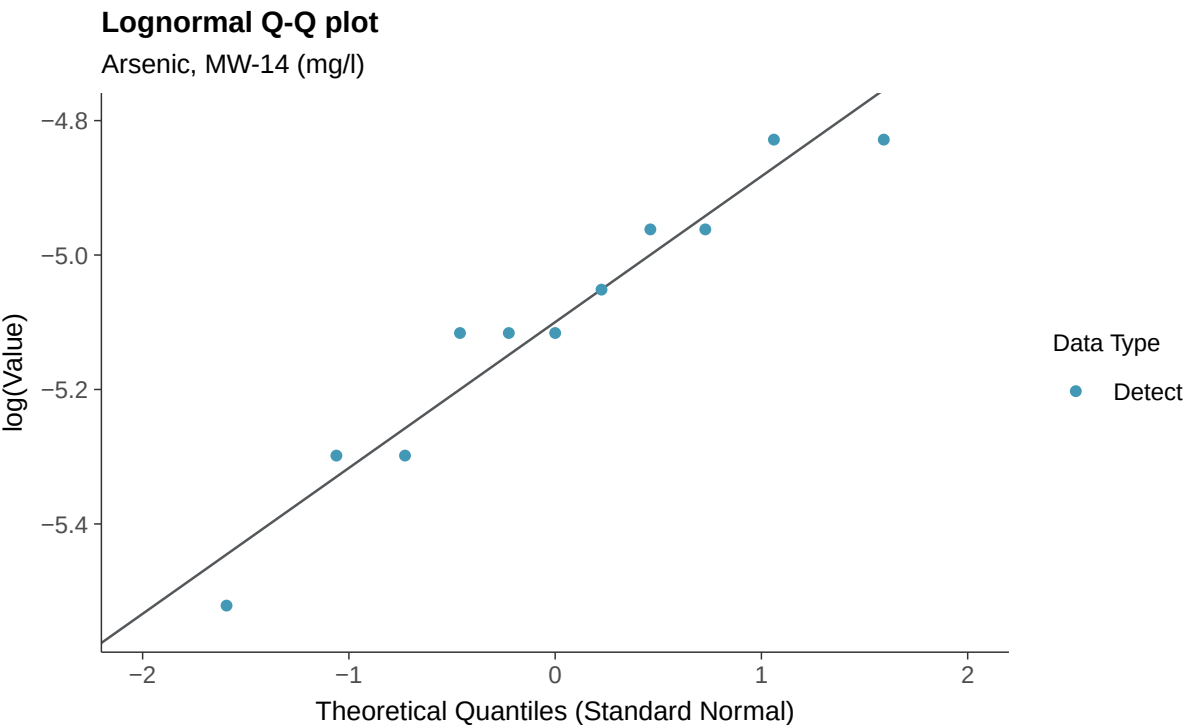
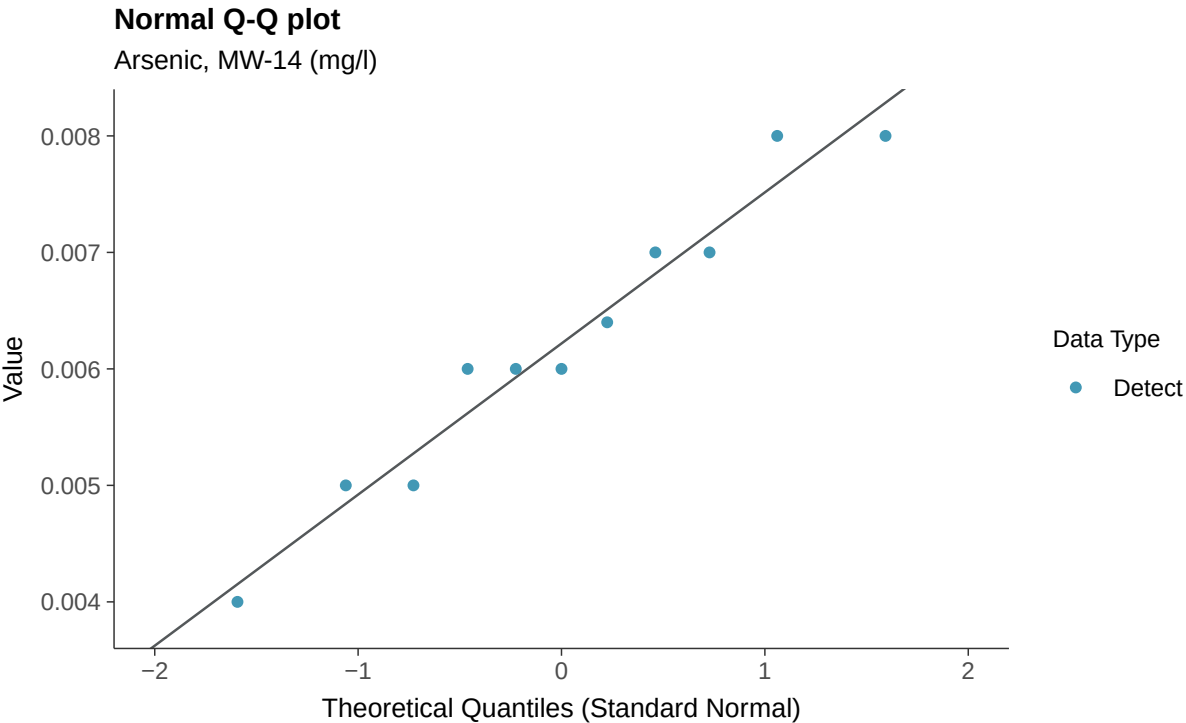


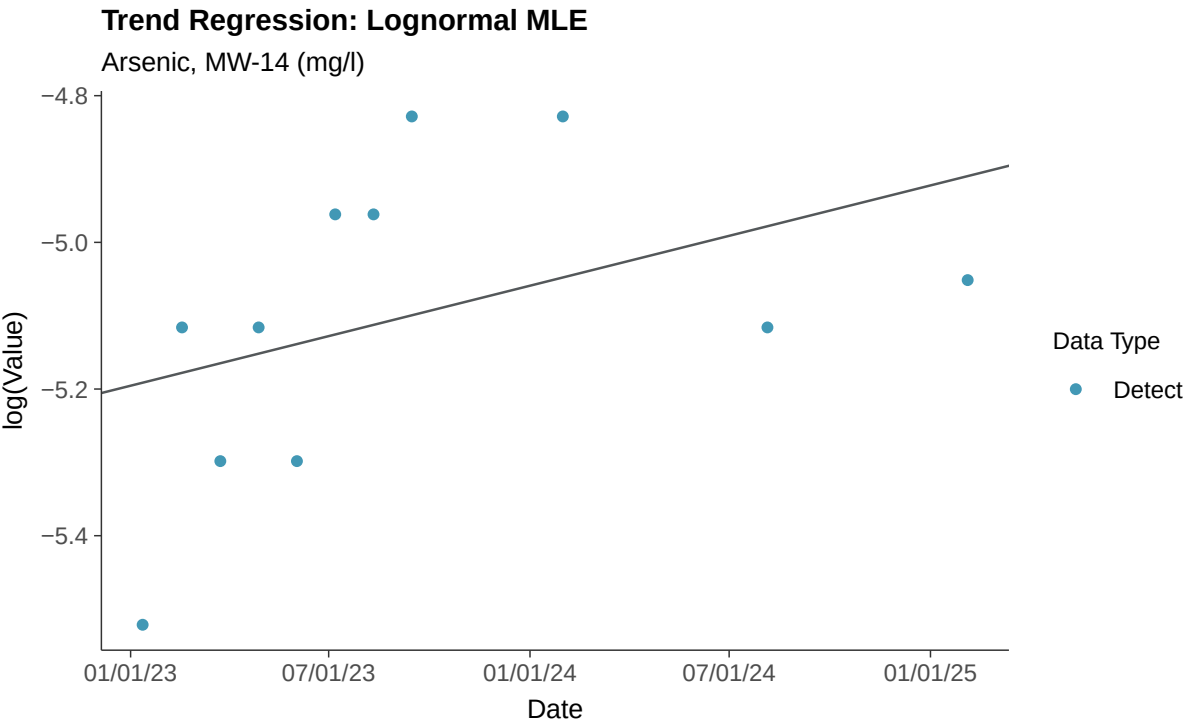
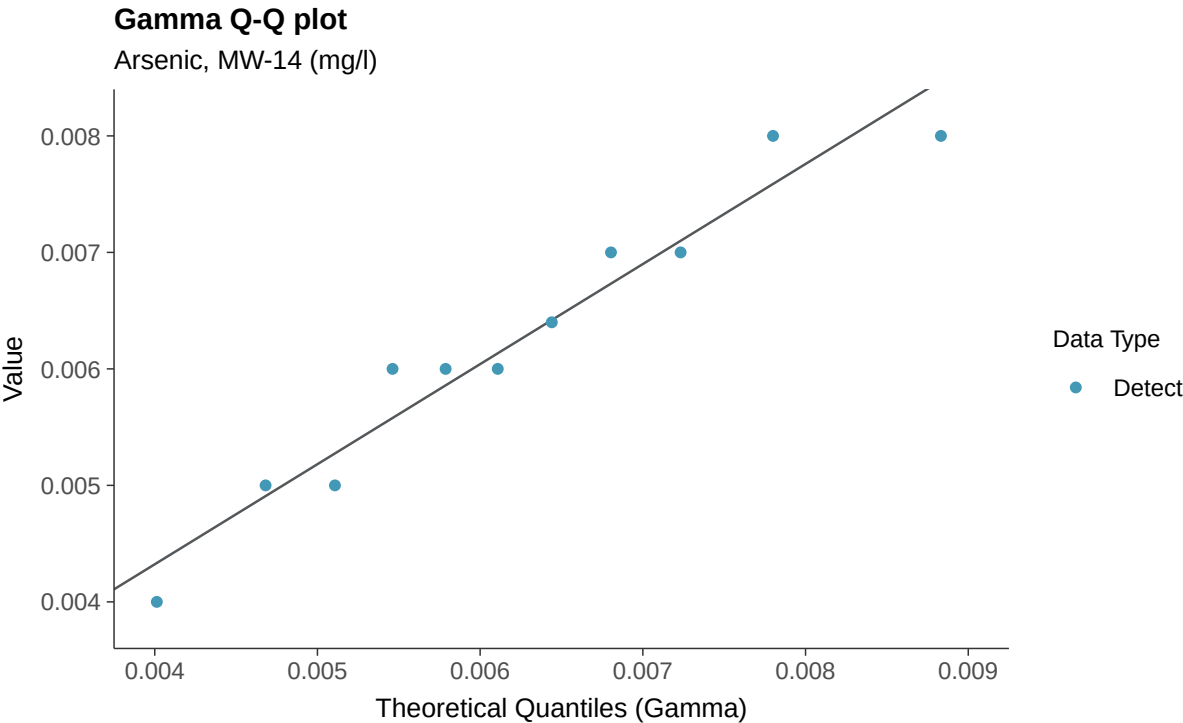
Appendix IV: Arsenic, MW-14

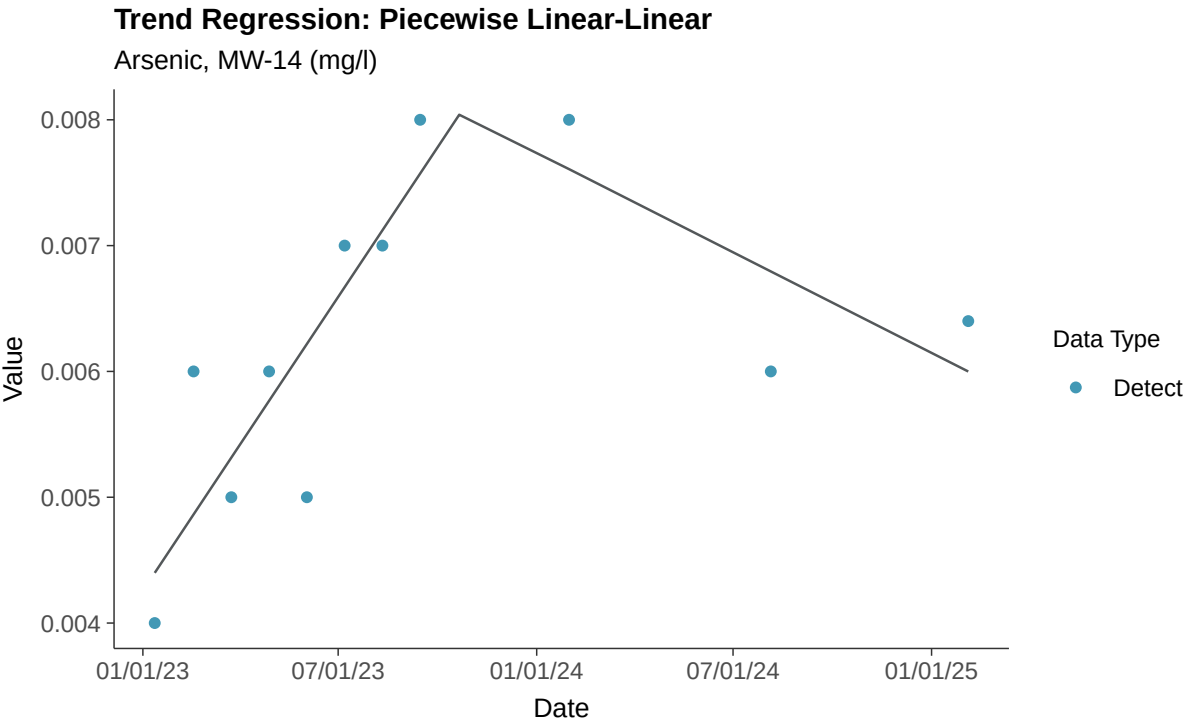
ID: 21_3_102







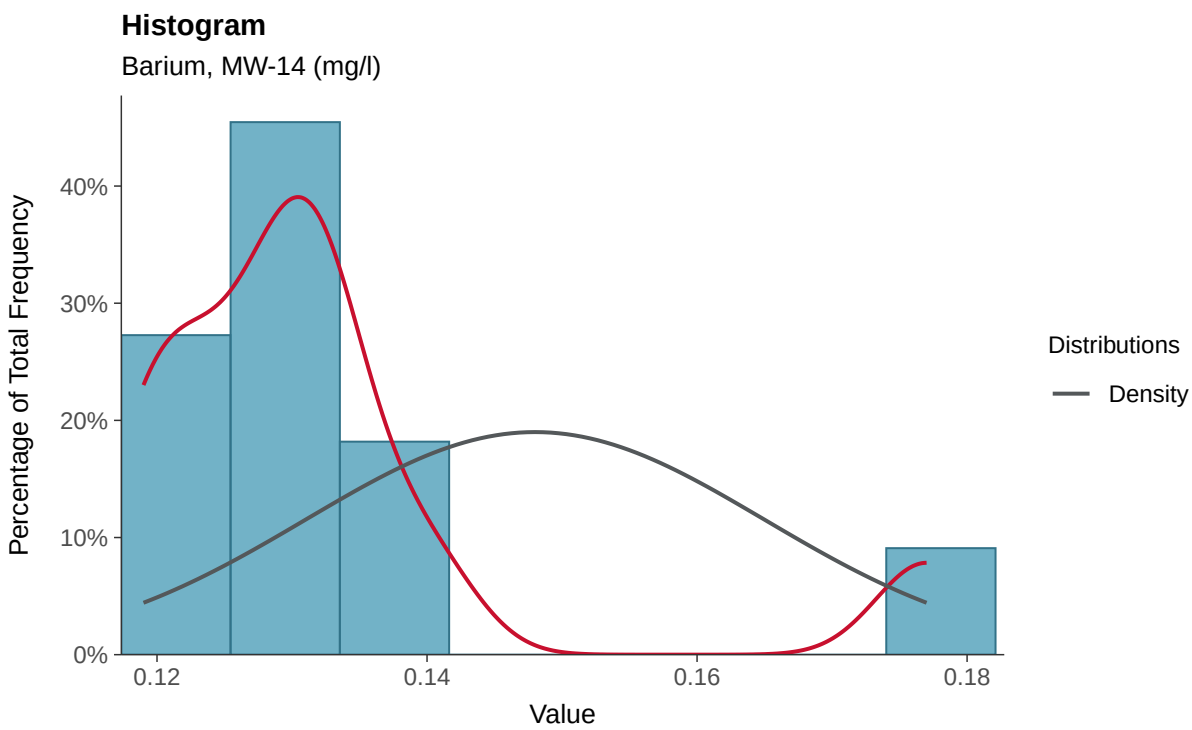
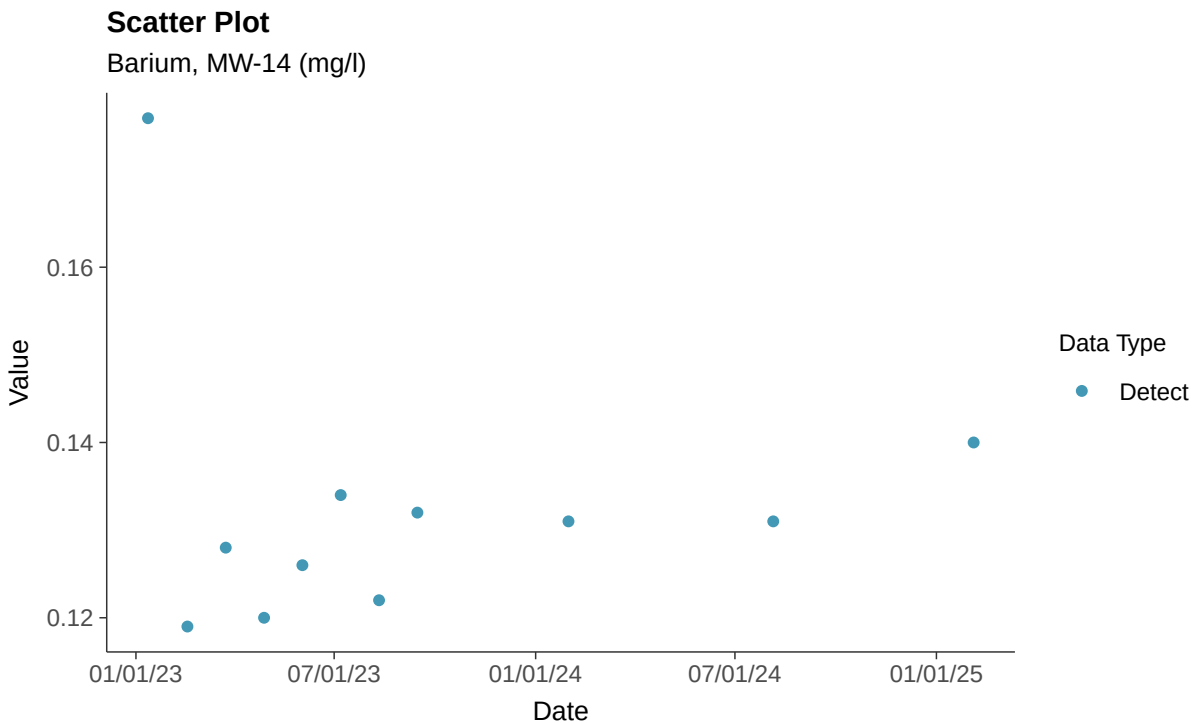


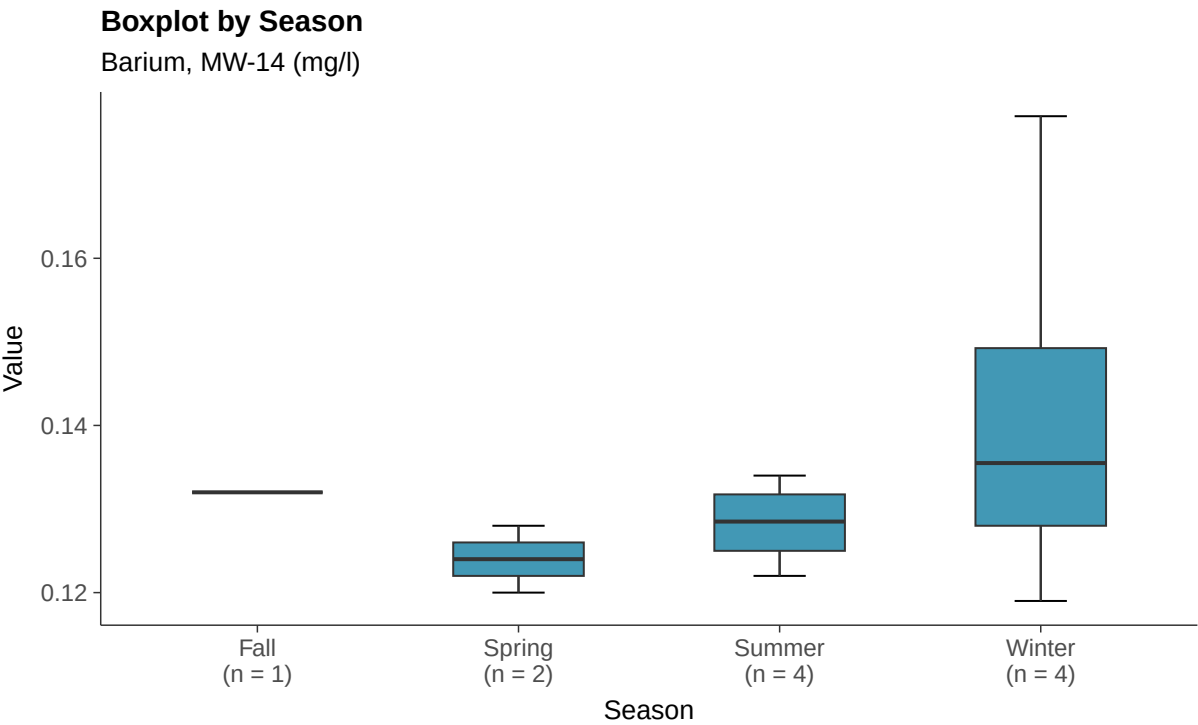
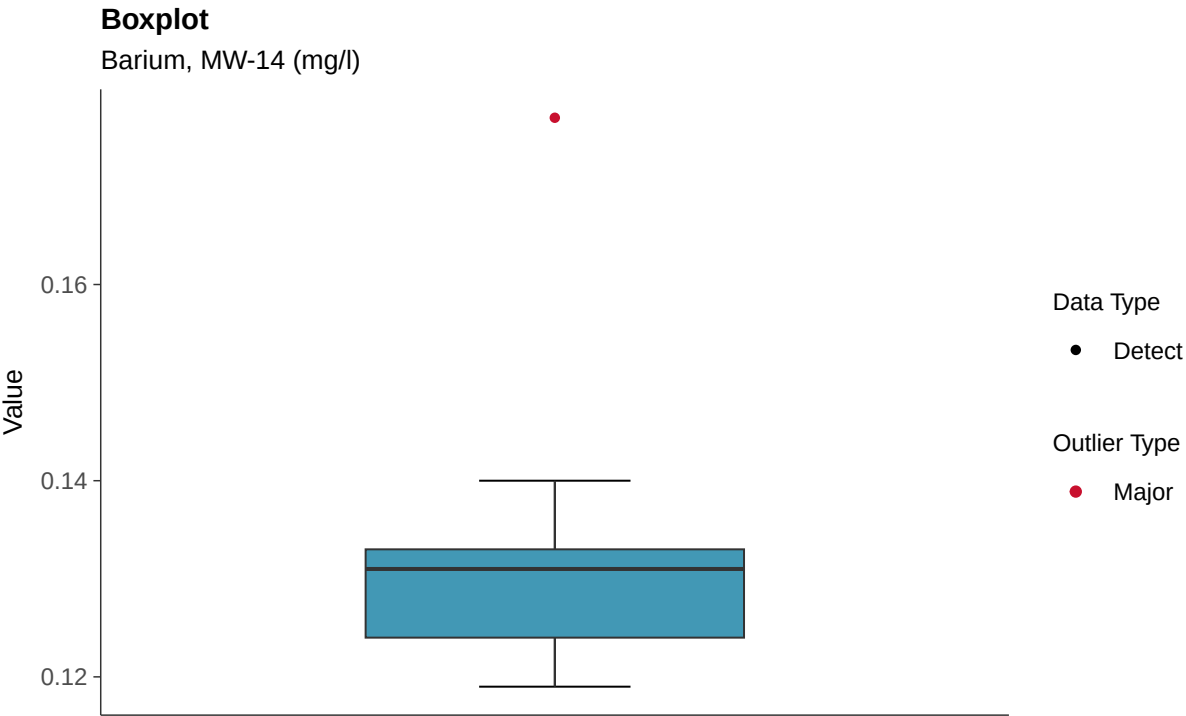


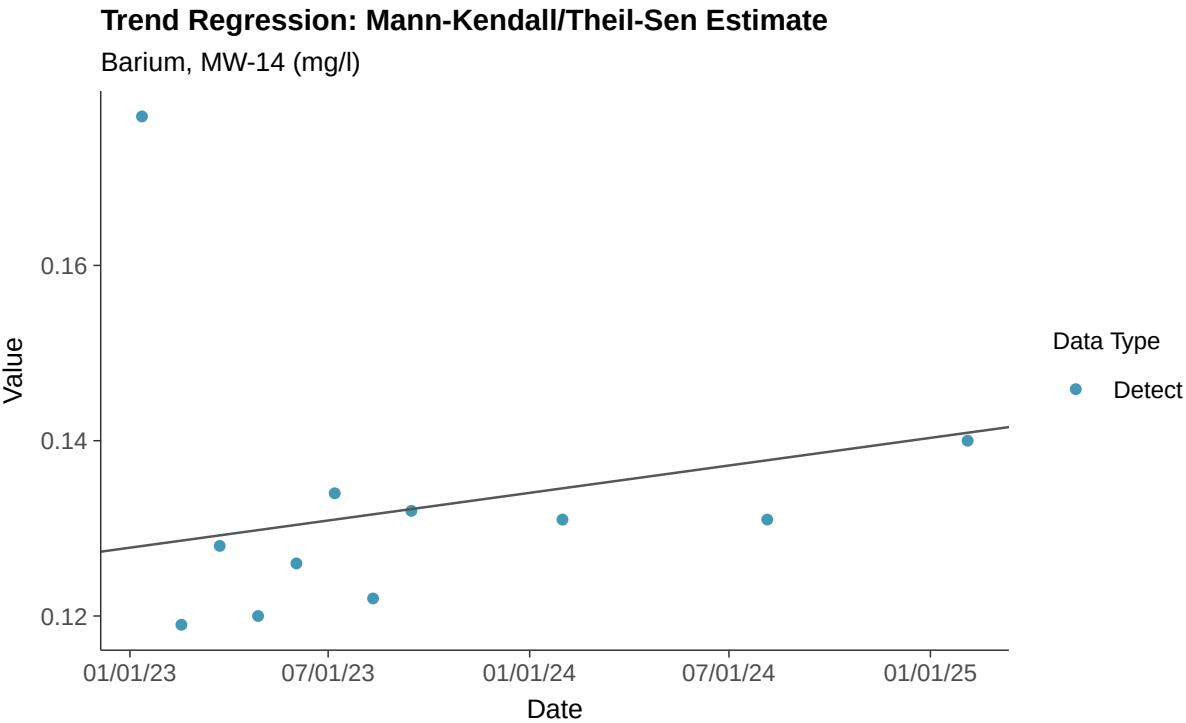
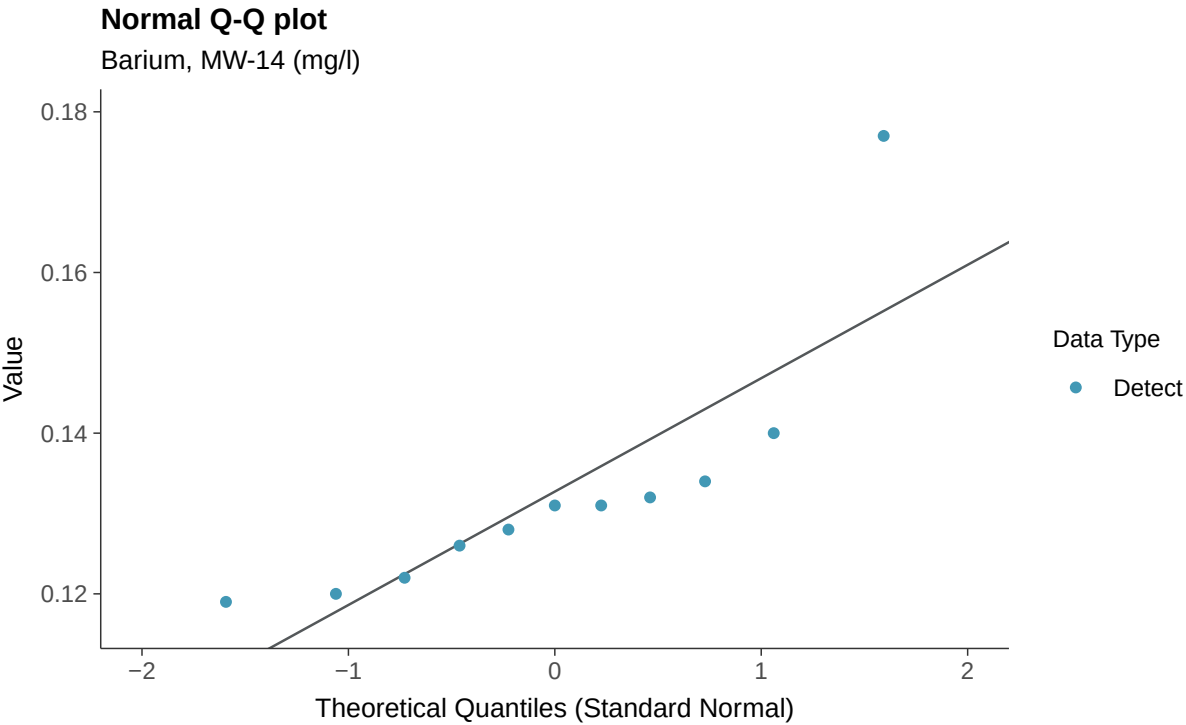


Appendix IV: Barium, MW-14

ID: 21_3_103



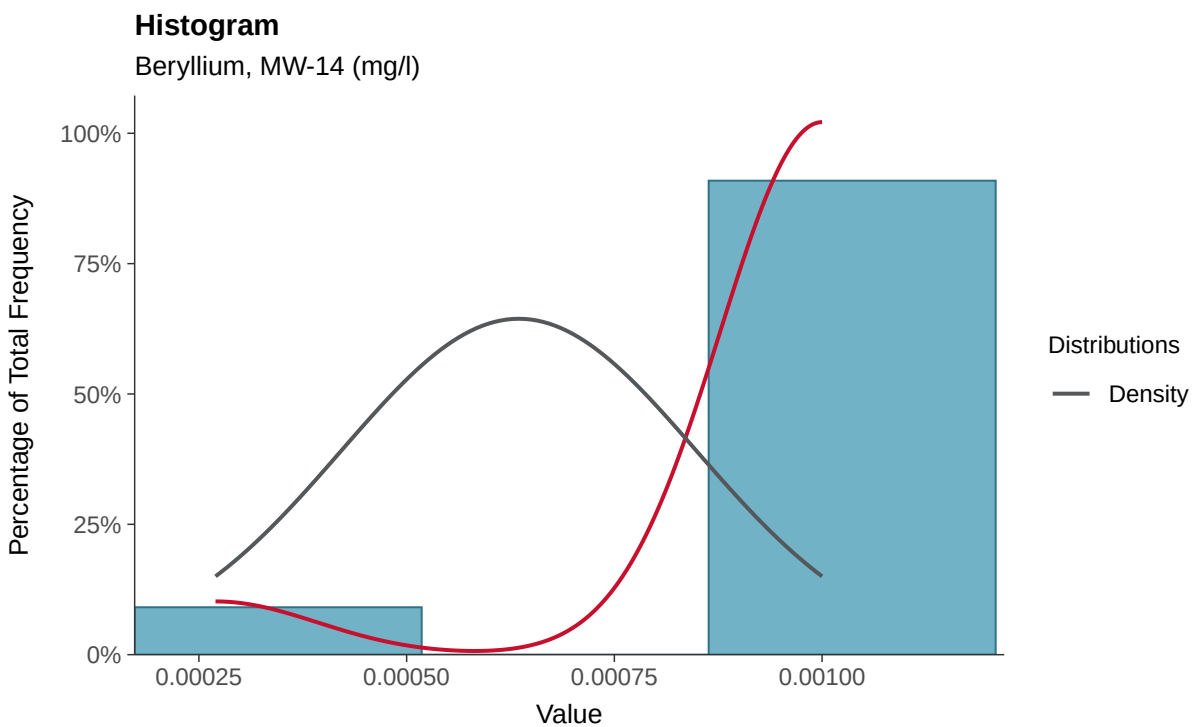
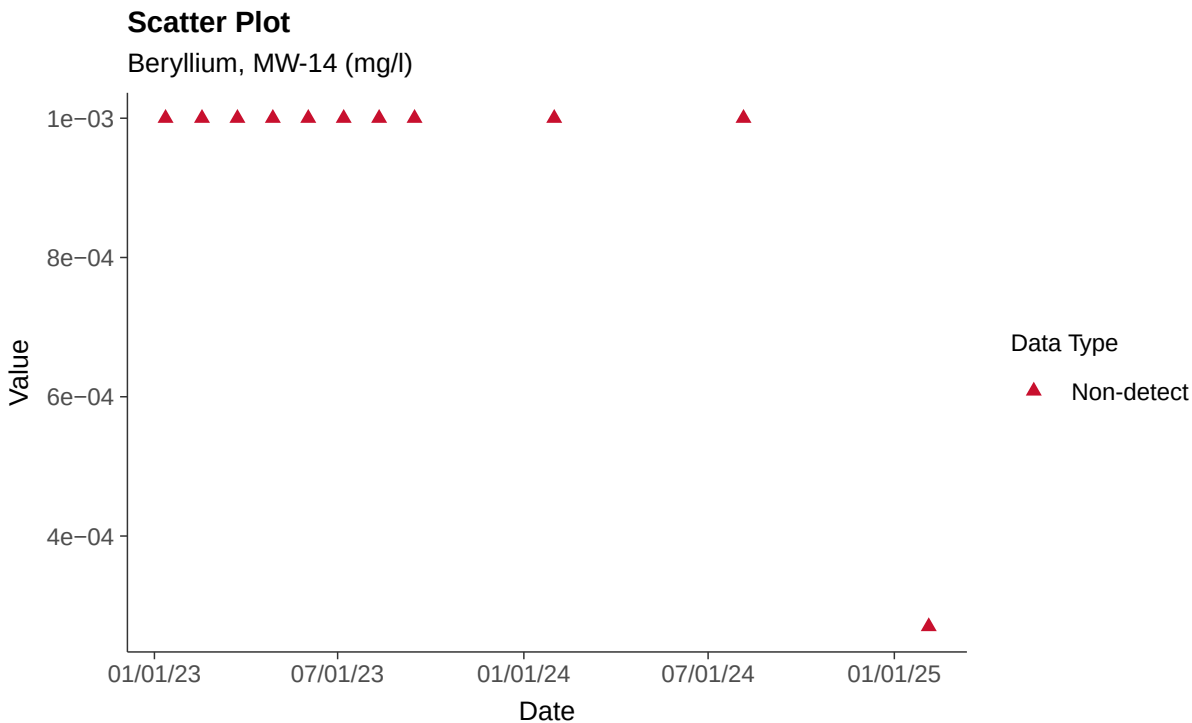


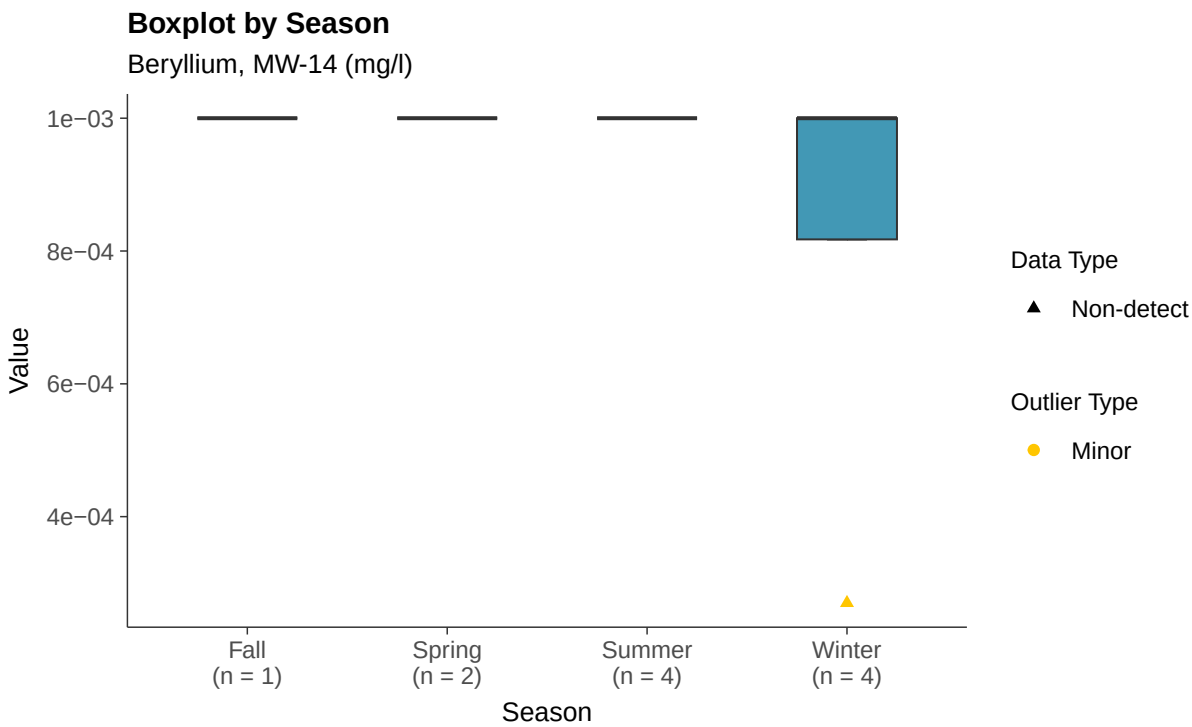
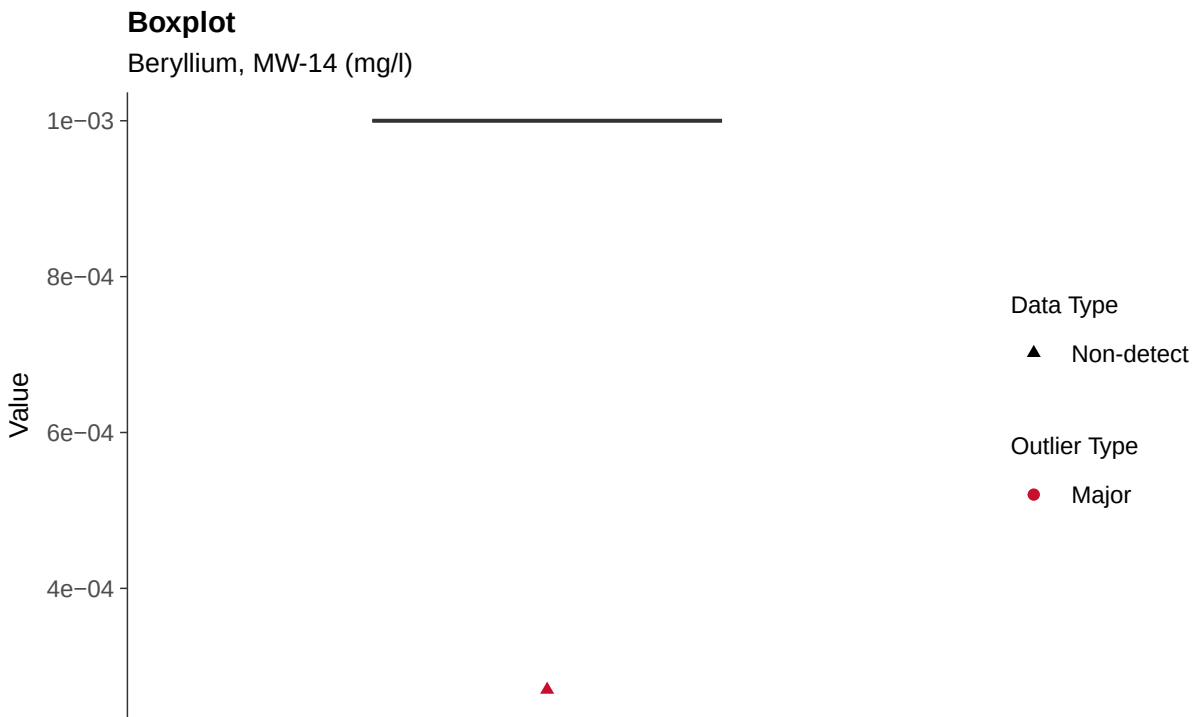


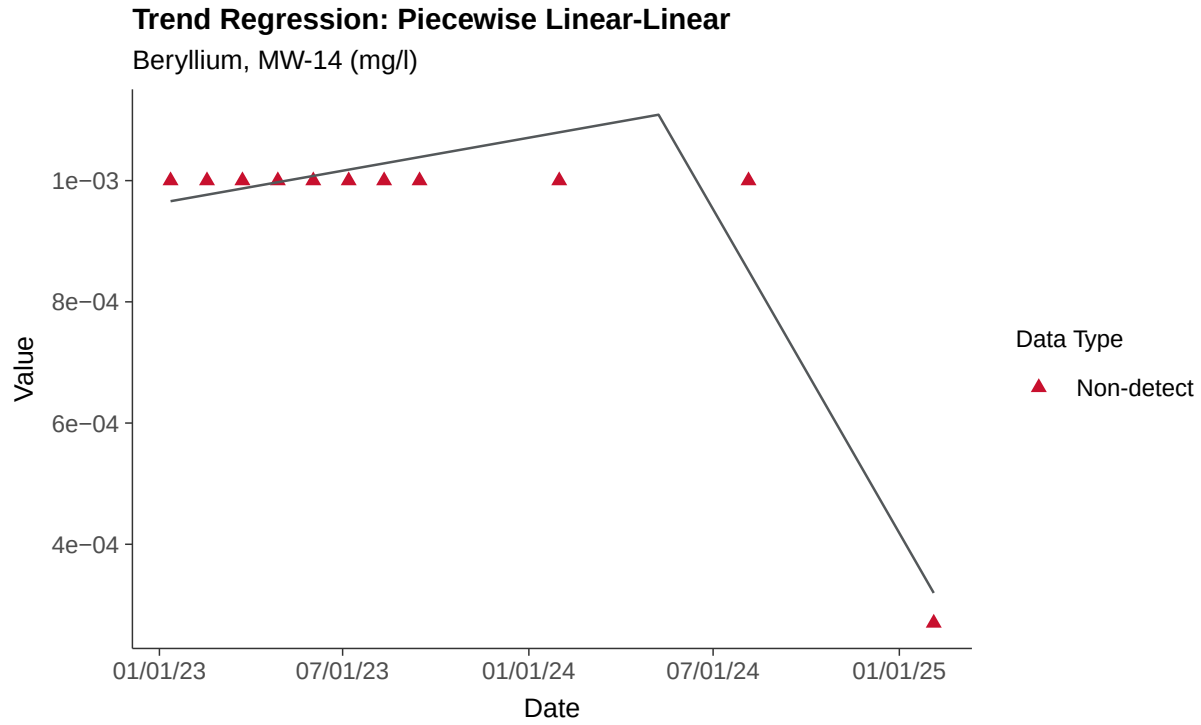


Appendix IV: Beryllium, MW-14

ID: 21_3_104



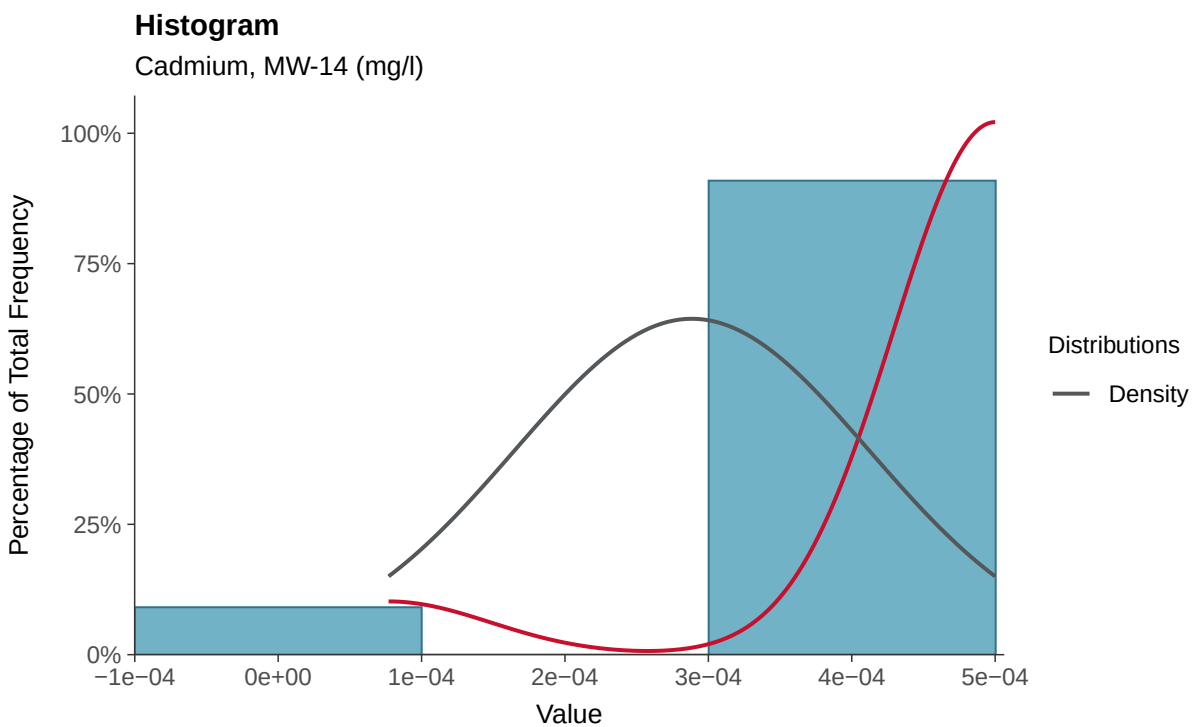
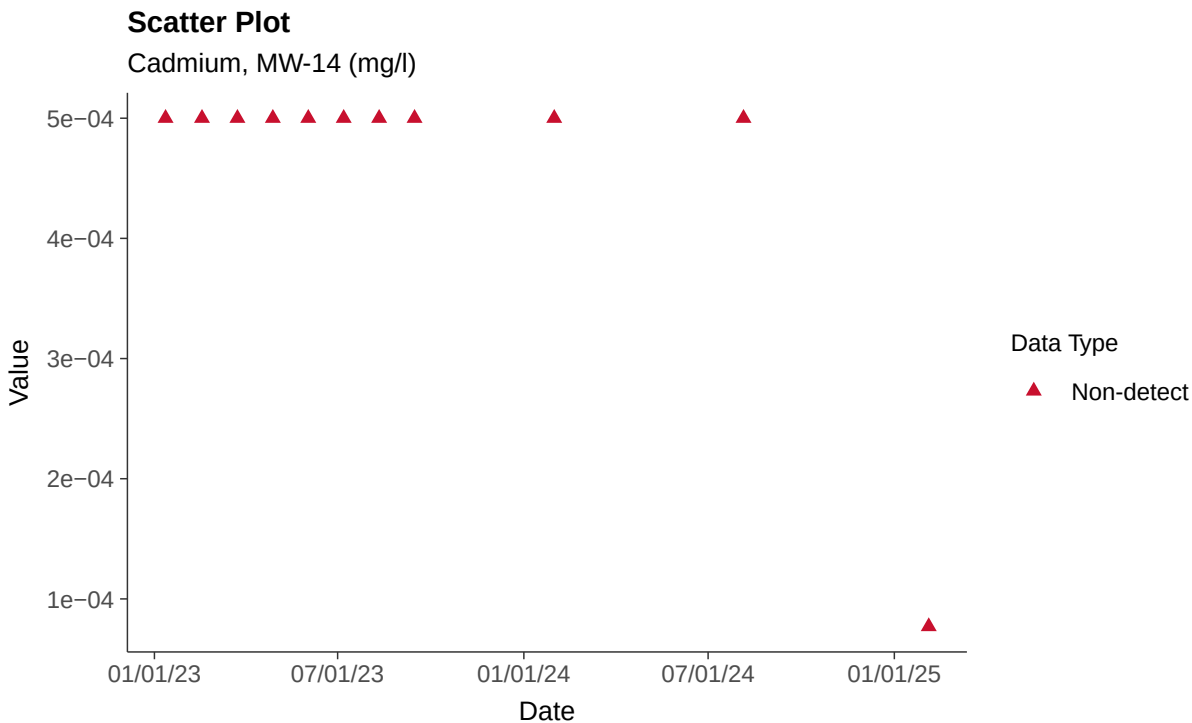


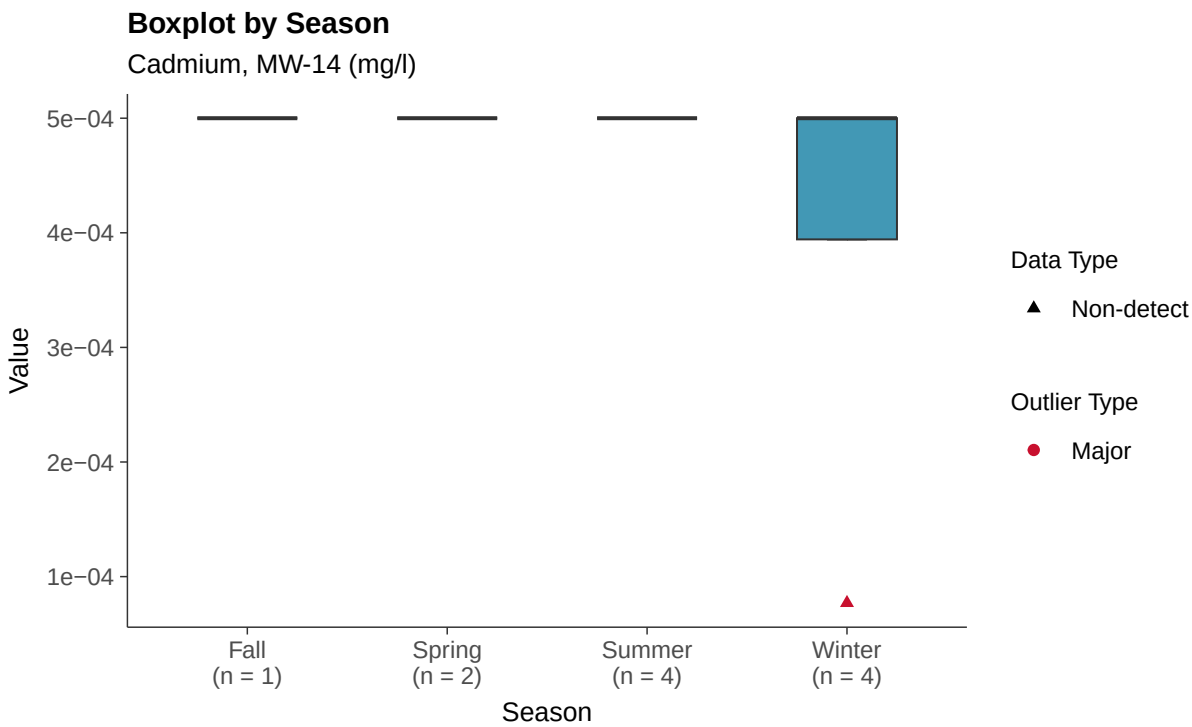
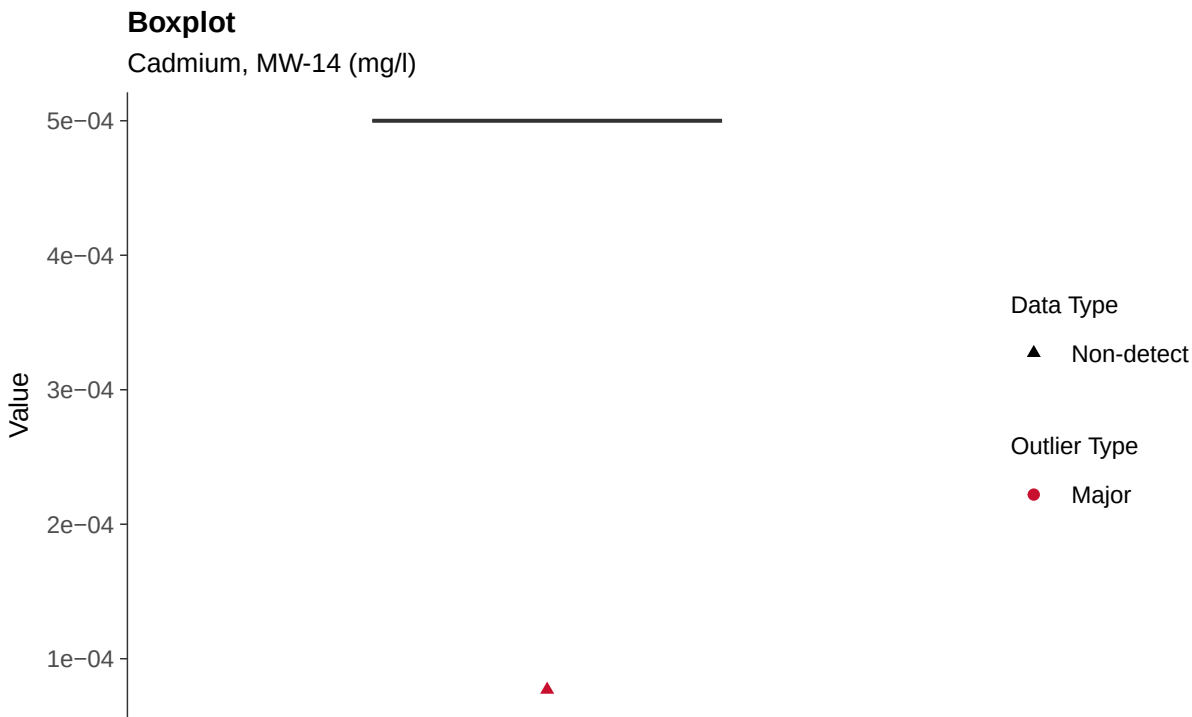




Appendix IV: Cadmium, MW-14

ID: 21_3_106

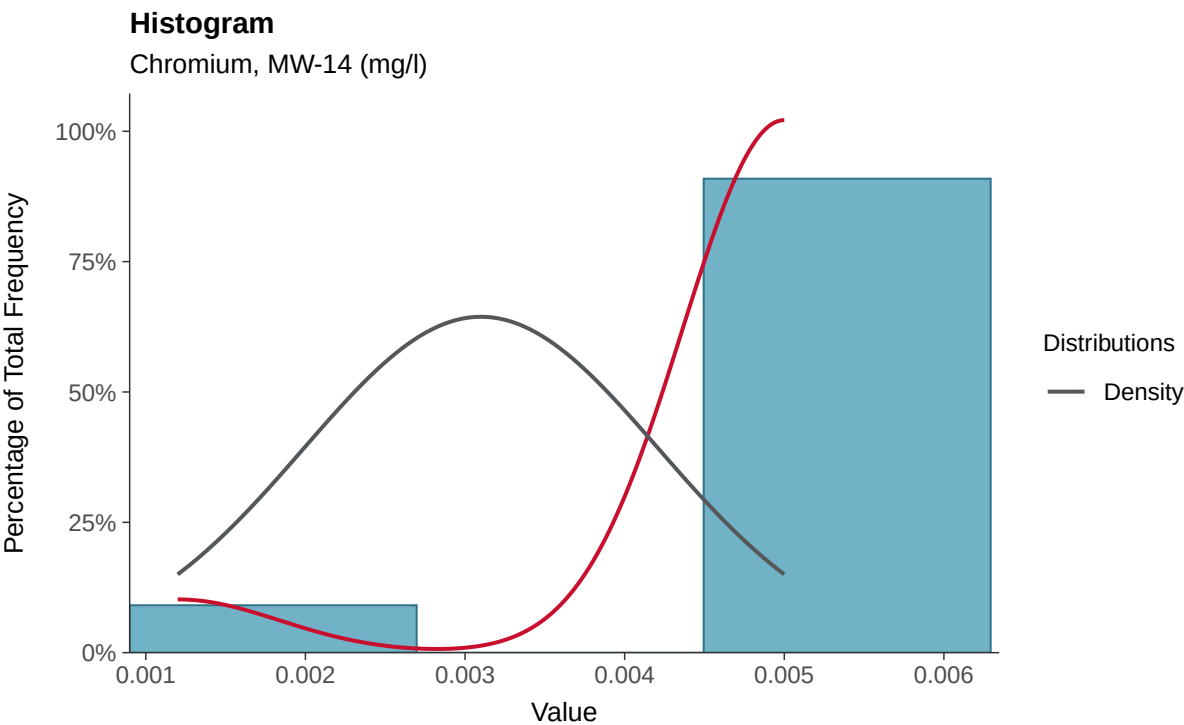
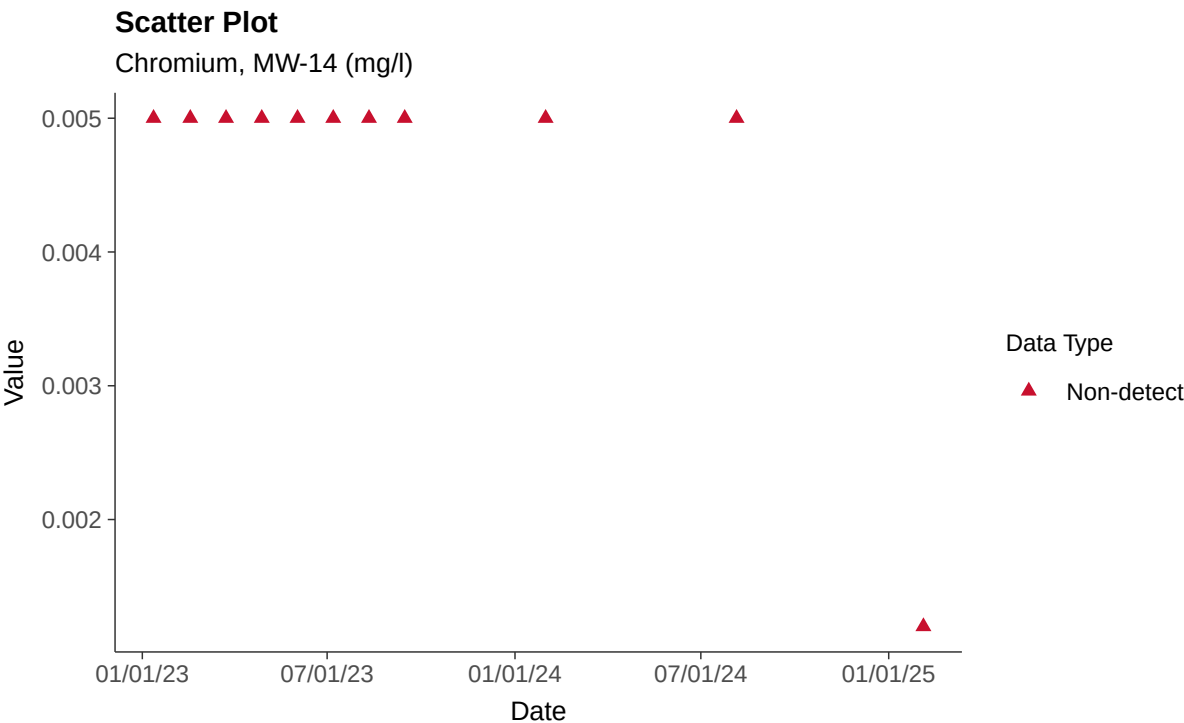


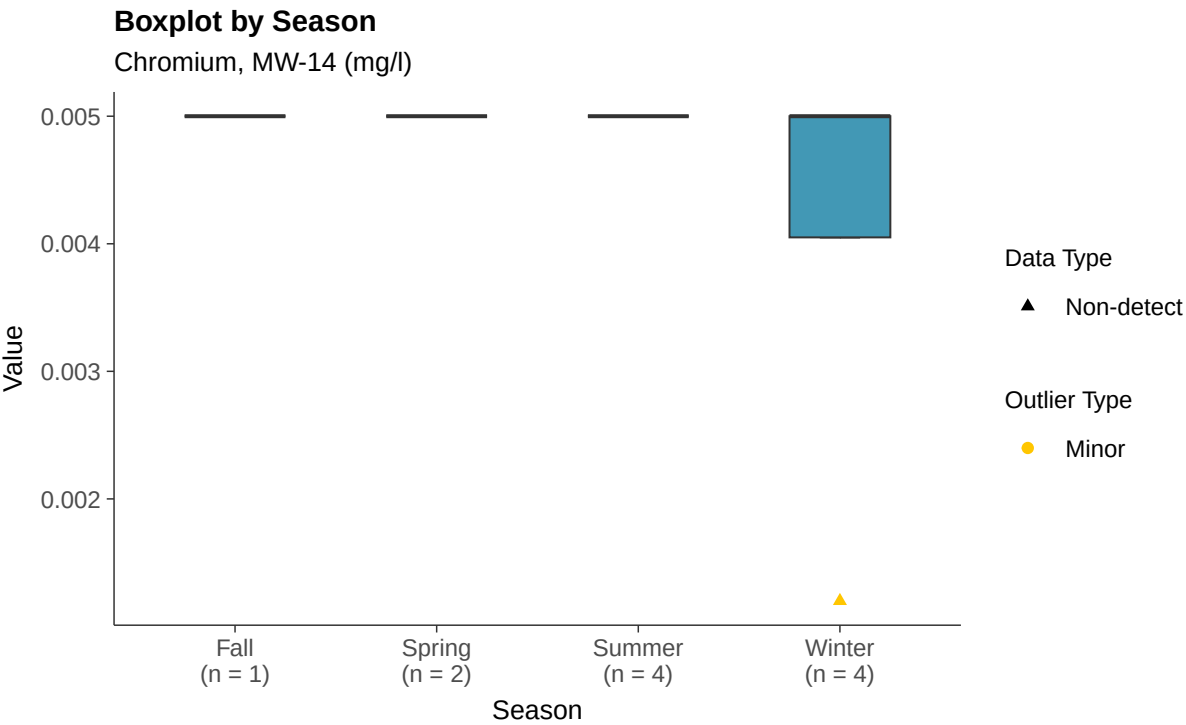
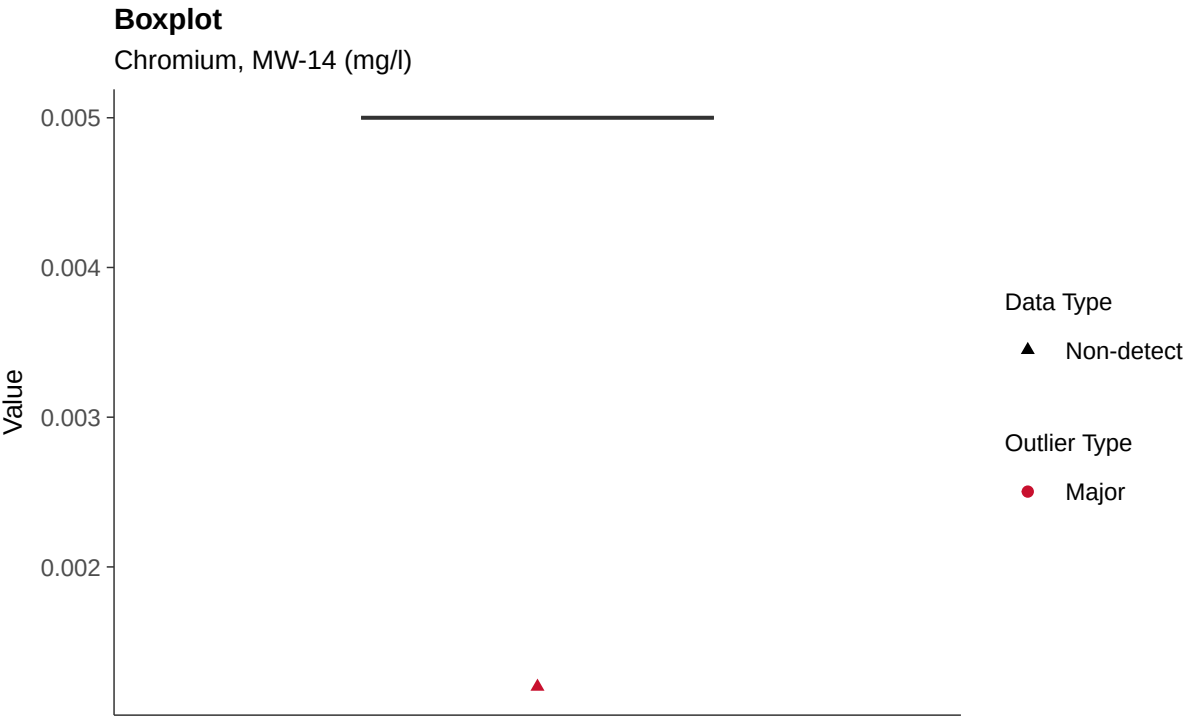




Appendix IV: Chromium, MW-14

ID: 21_3_109

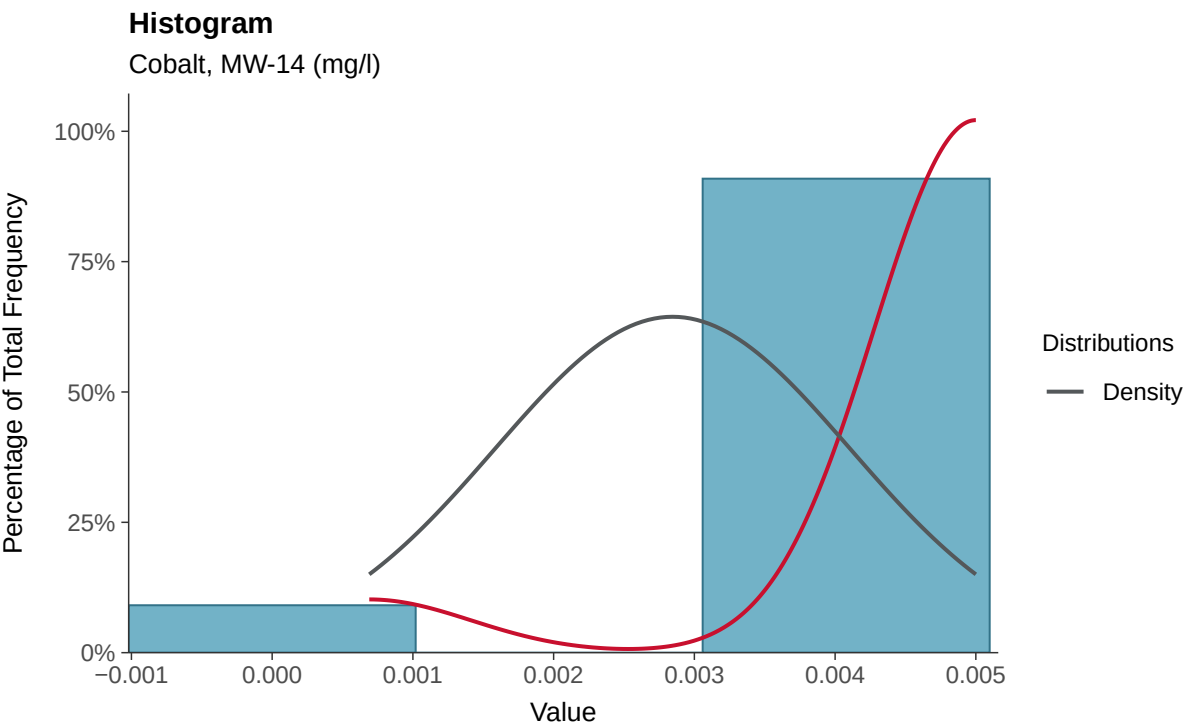
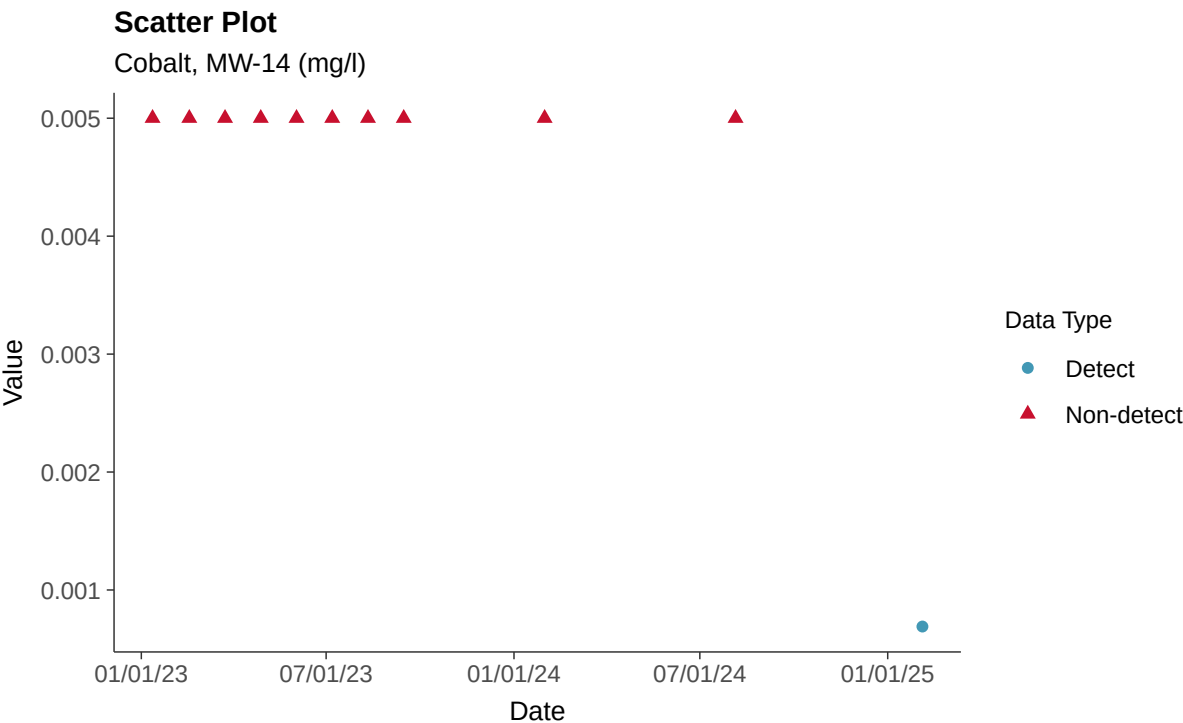


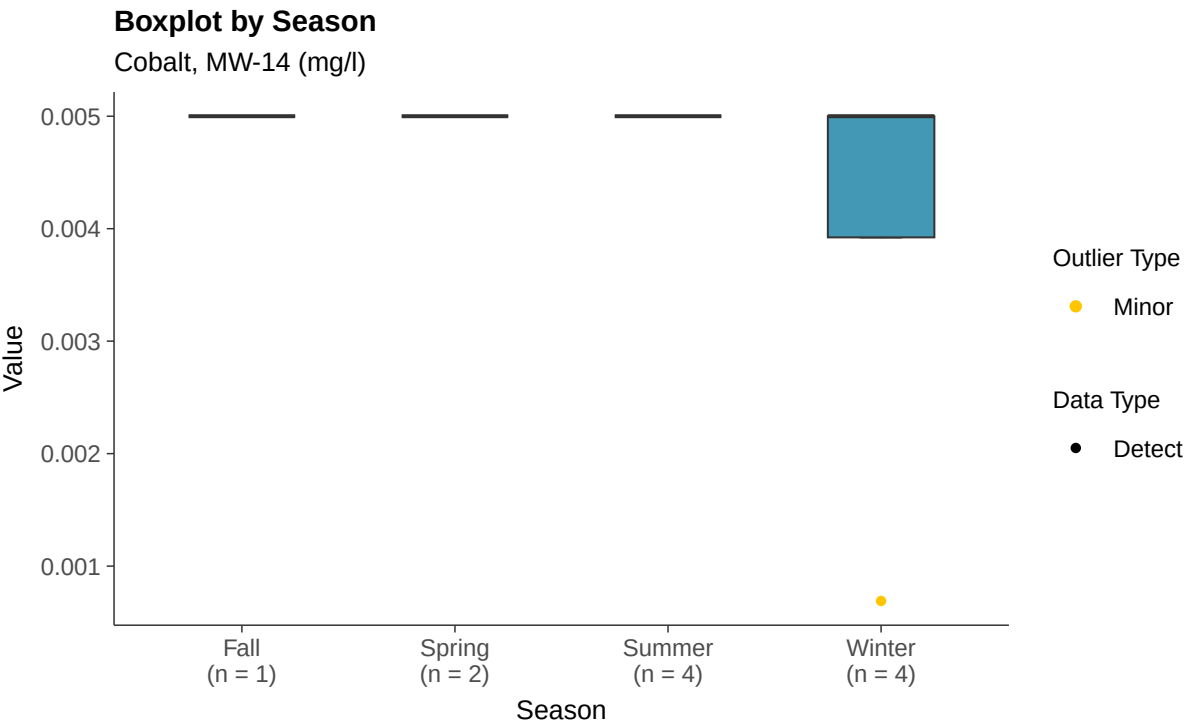
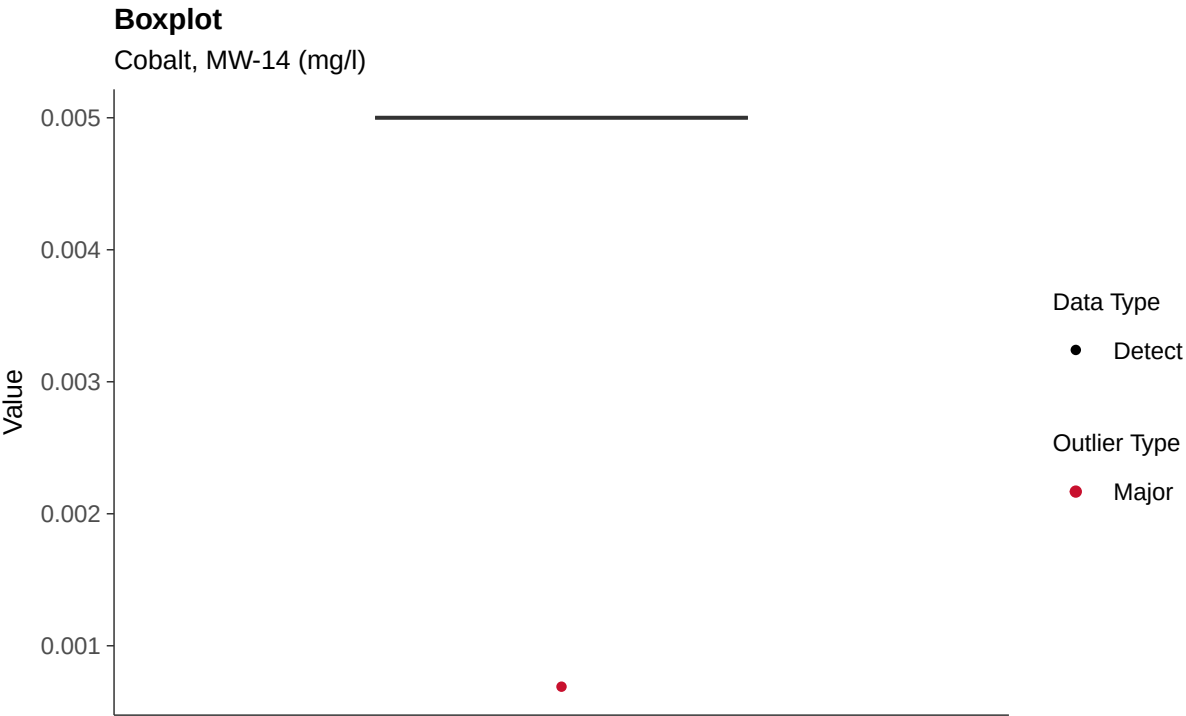




Appendix IV: Cobalt, MW-14

ID: 21_3_110

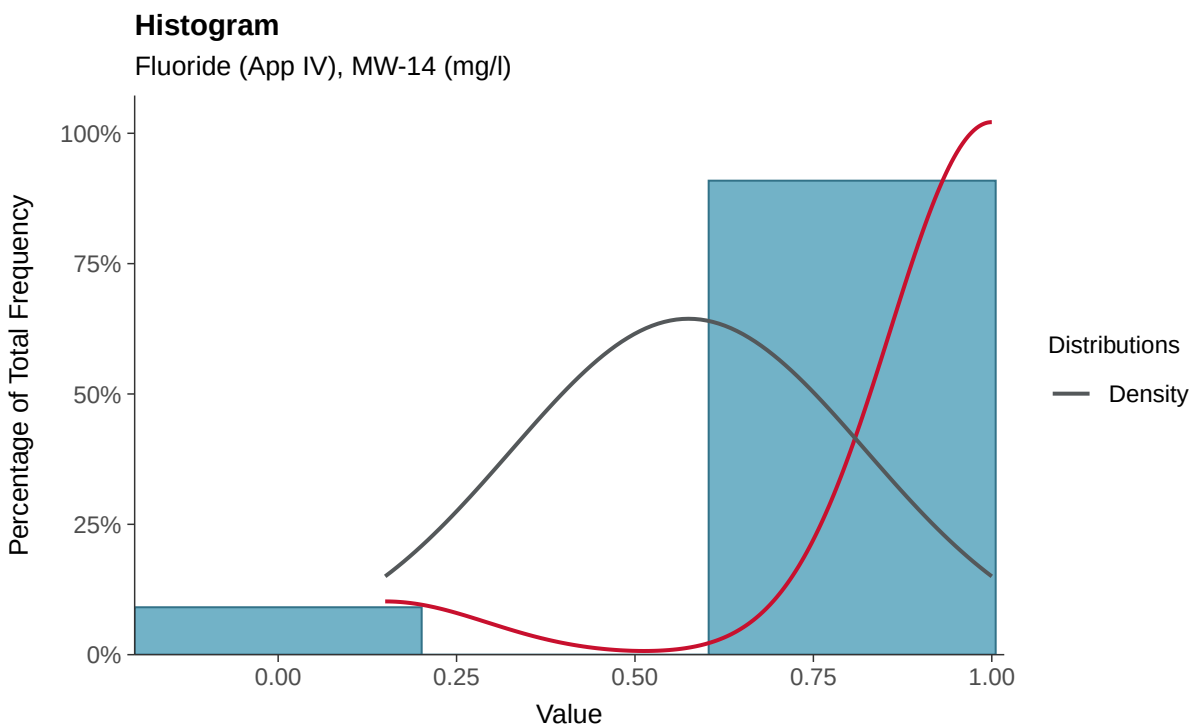
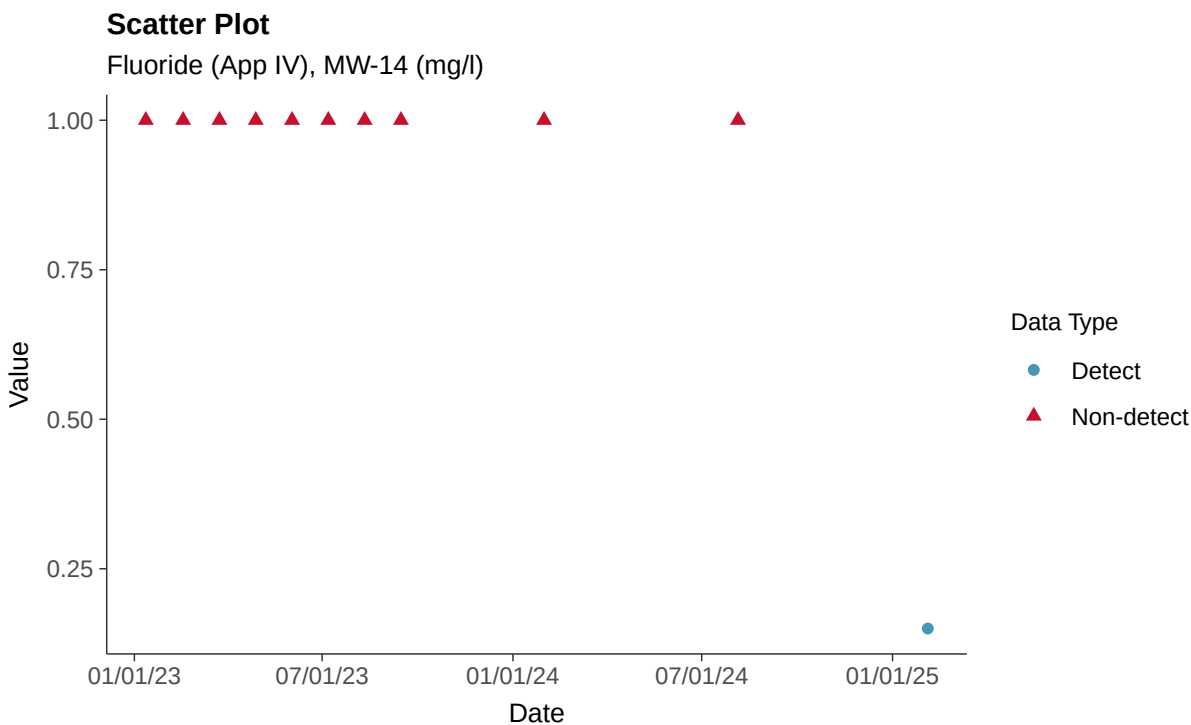


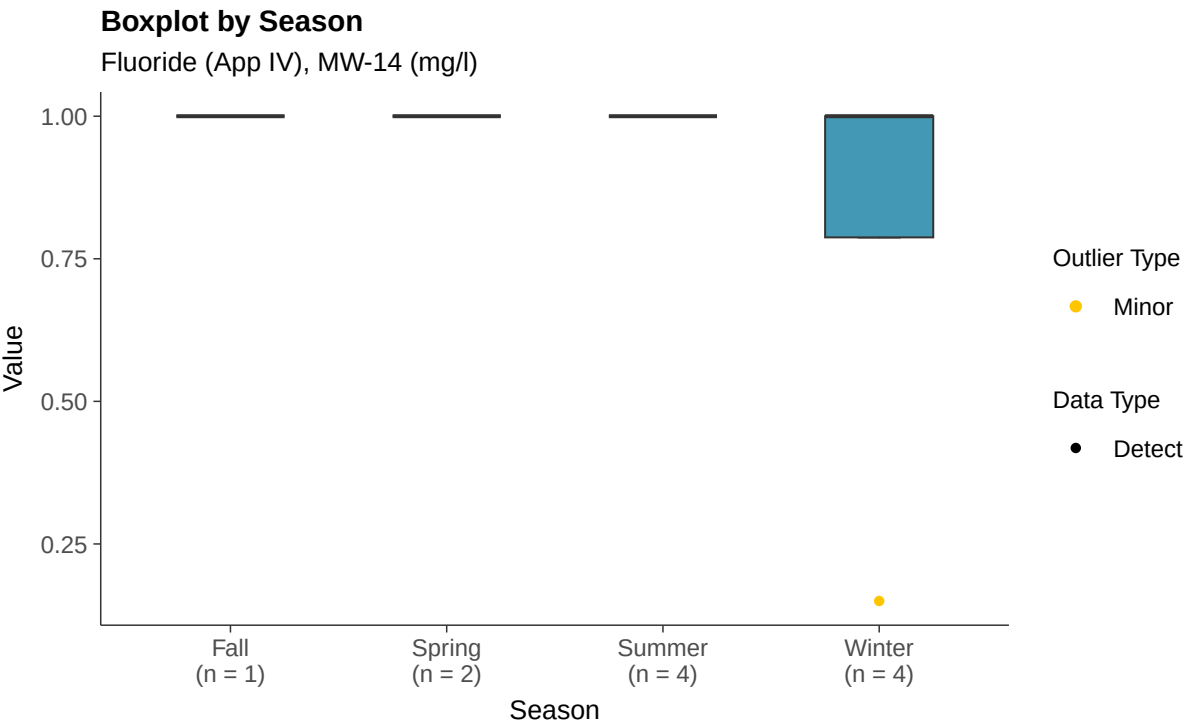
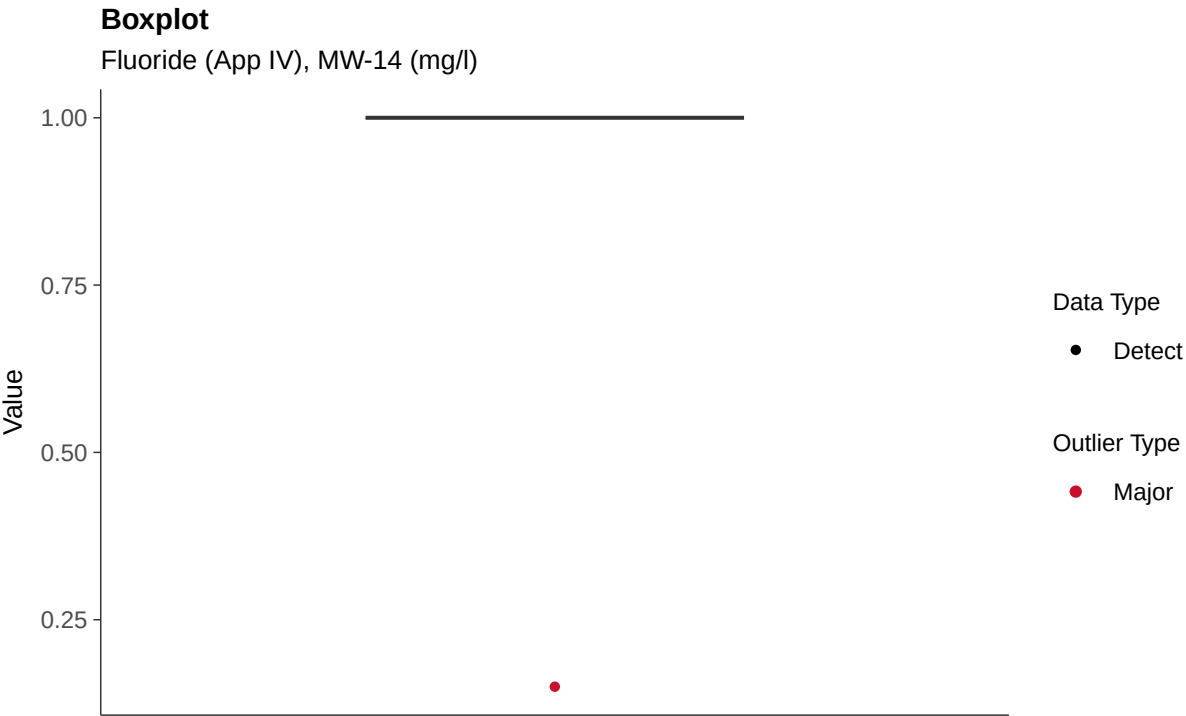




Appendix IV: Fluoride (App IV), MW-14

ID: 21_3_113

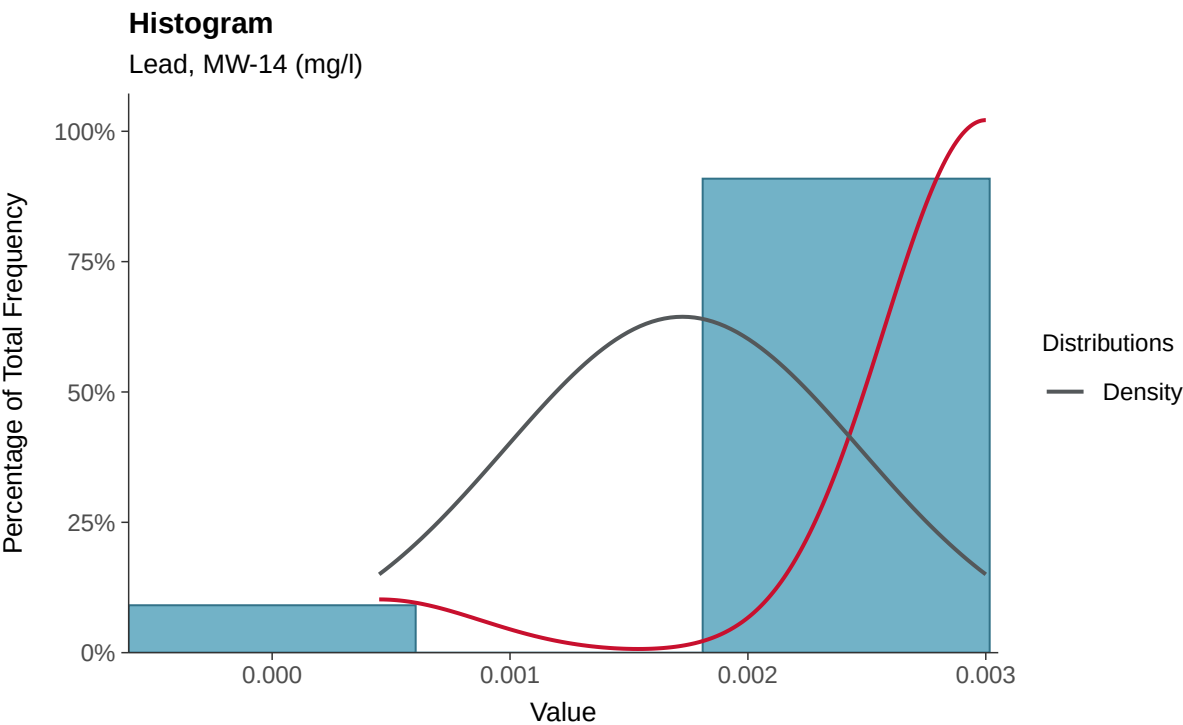
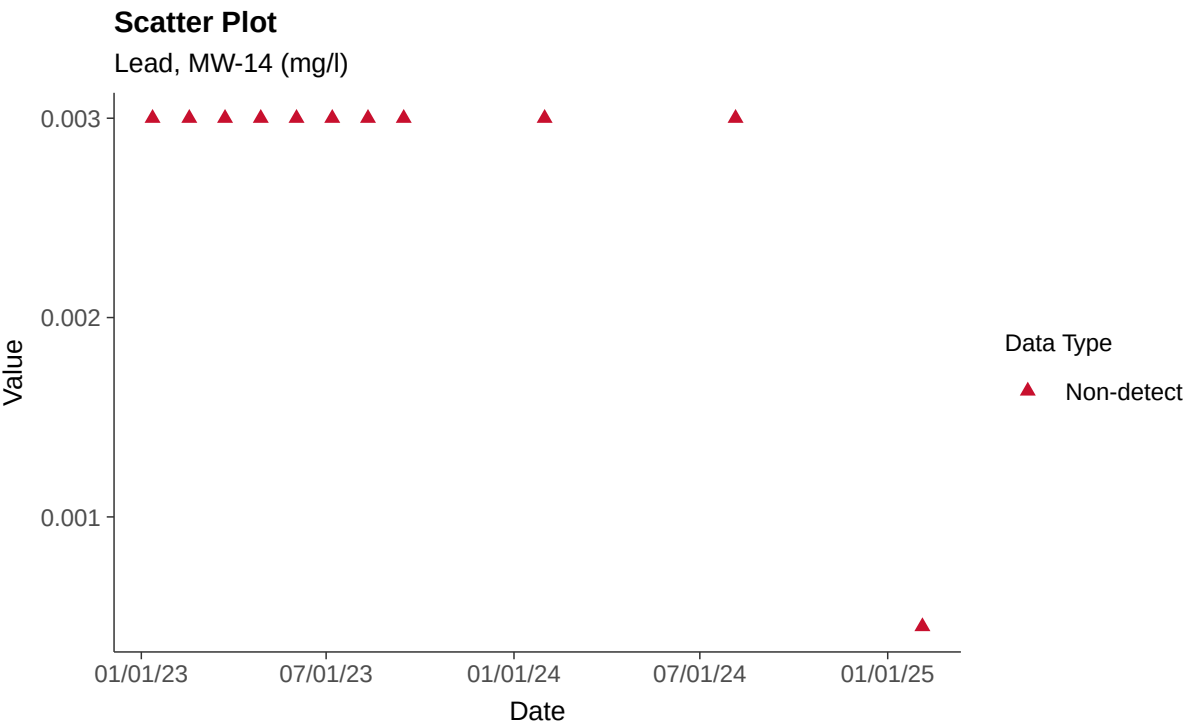


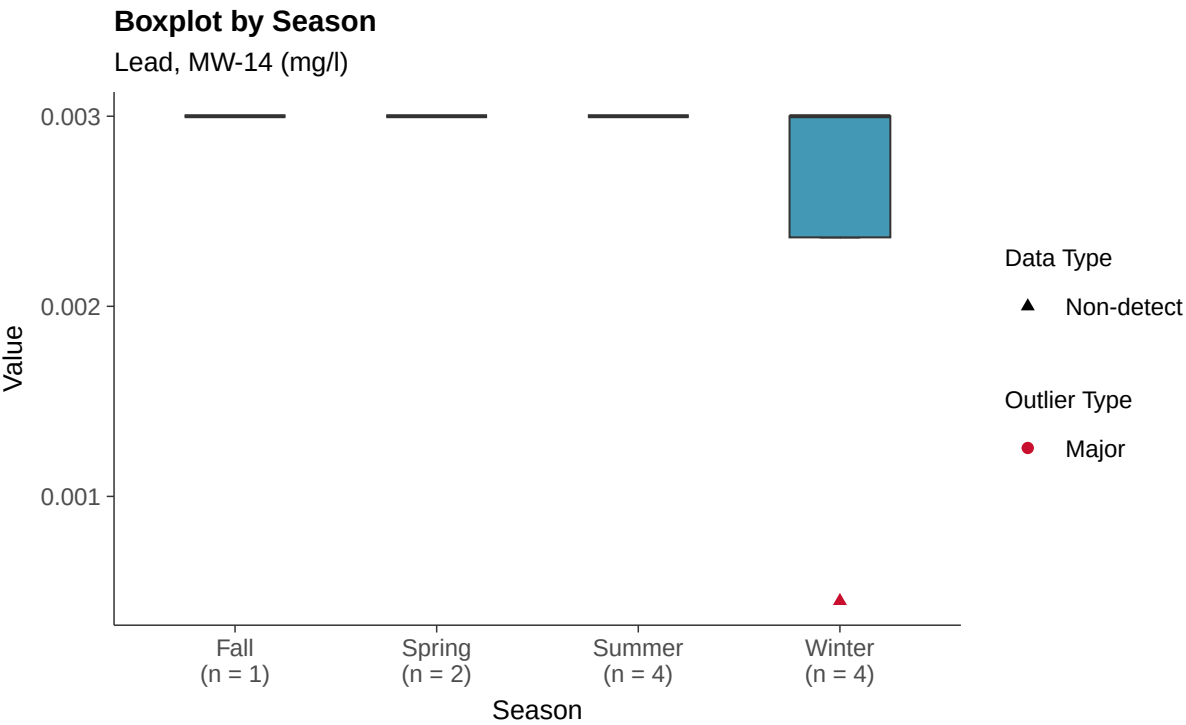
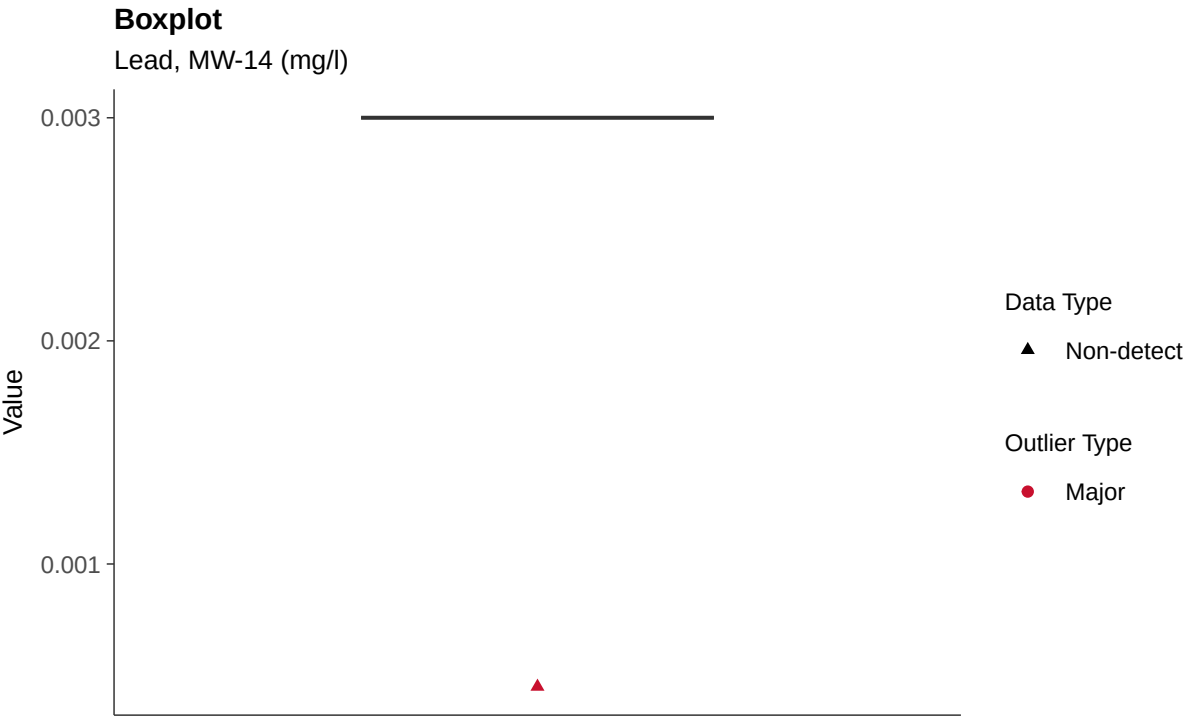




Appendix IV: Lead, MW-14

ID: 21_3_115

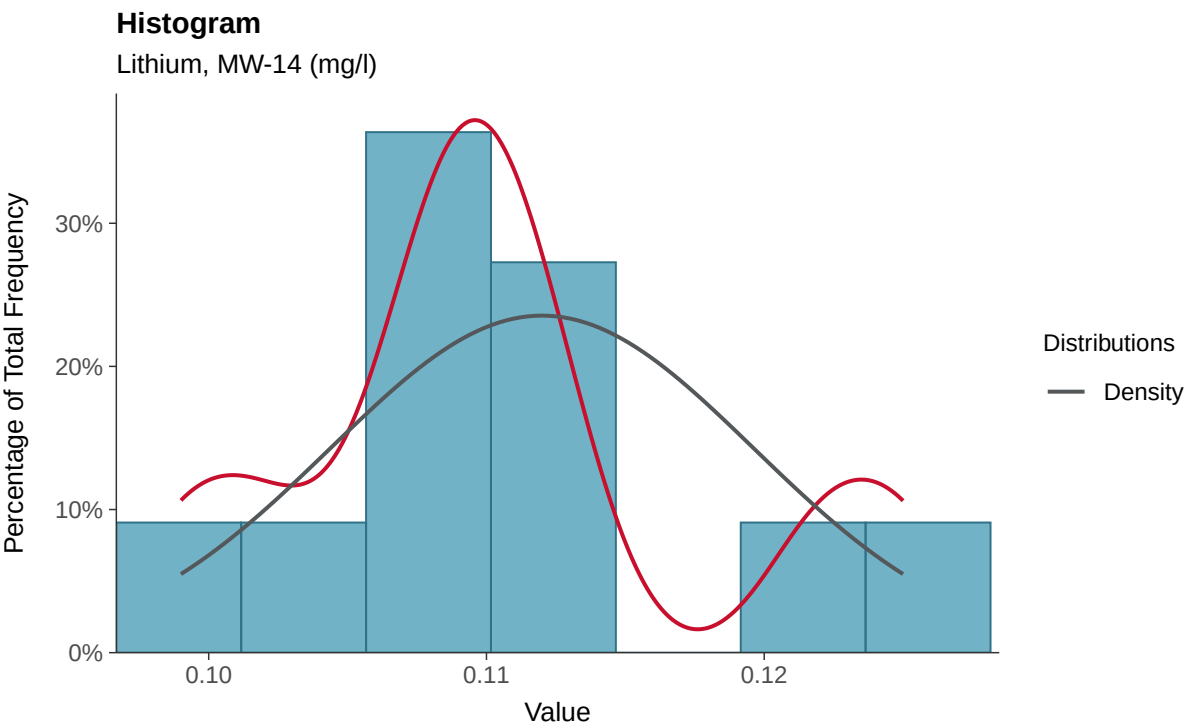
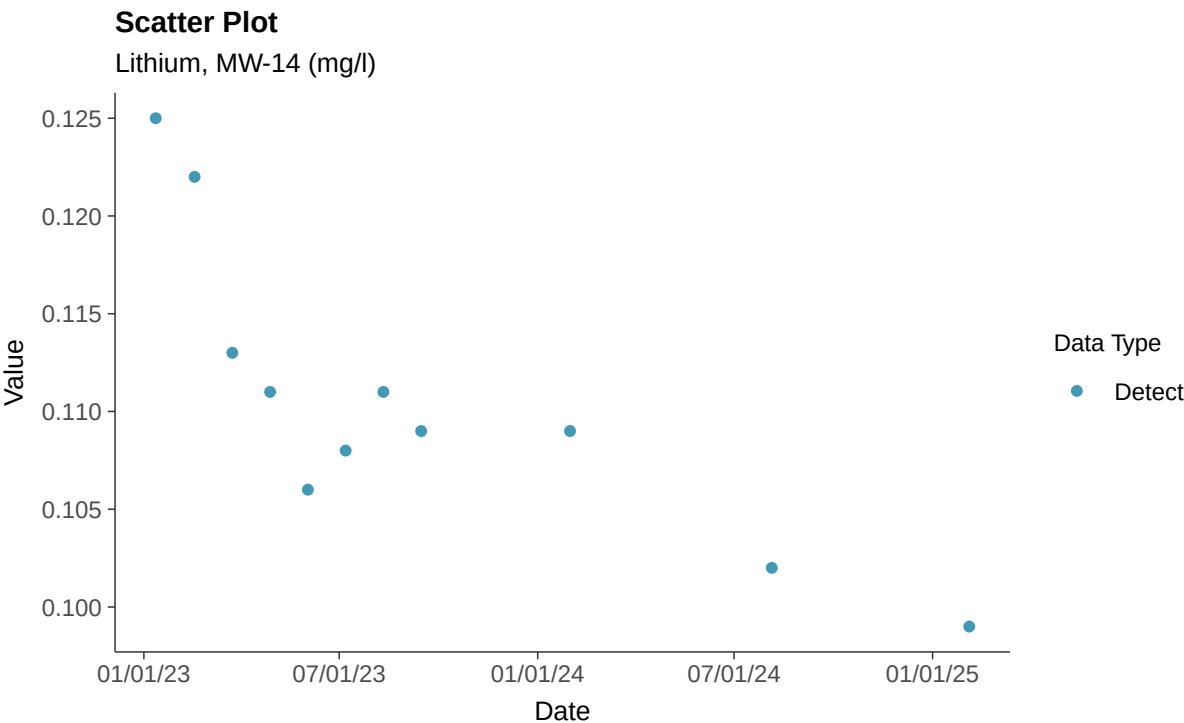


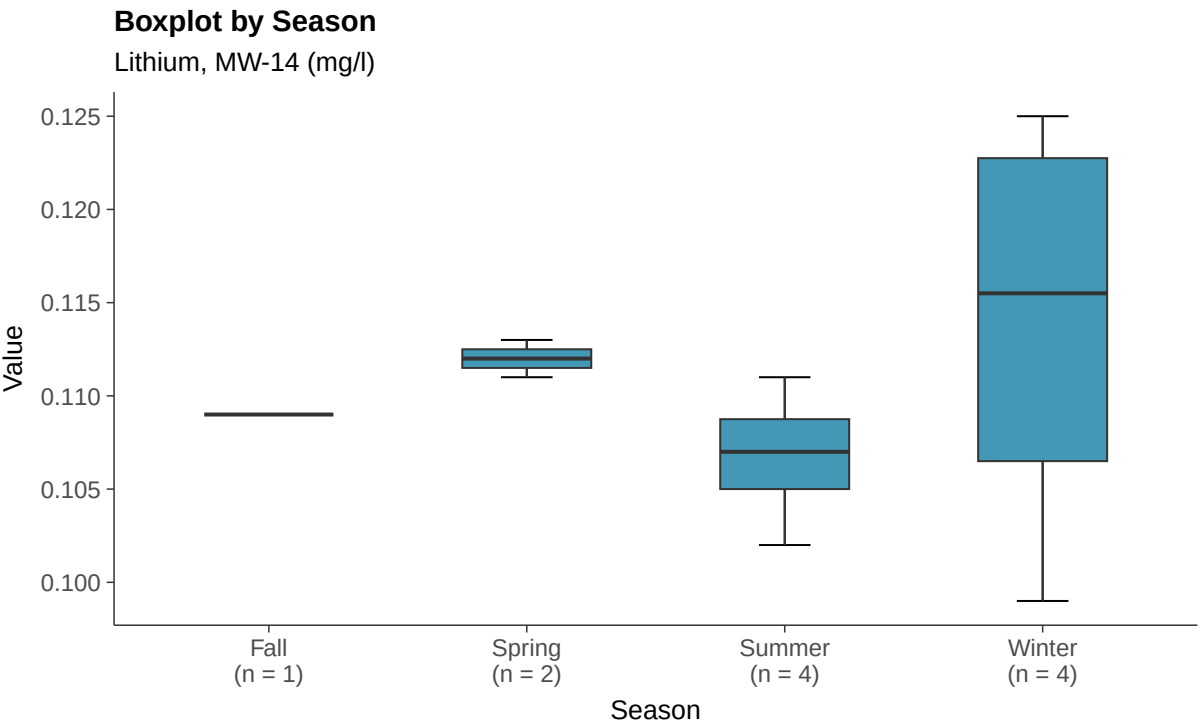
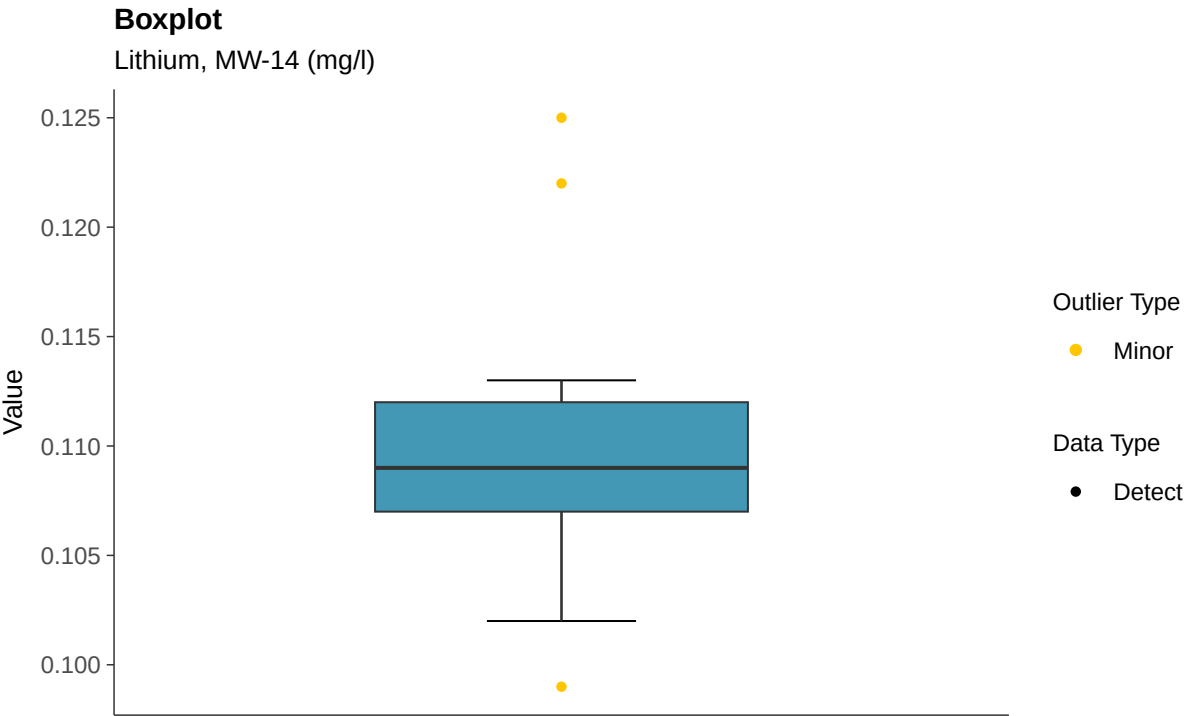


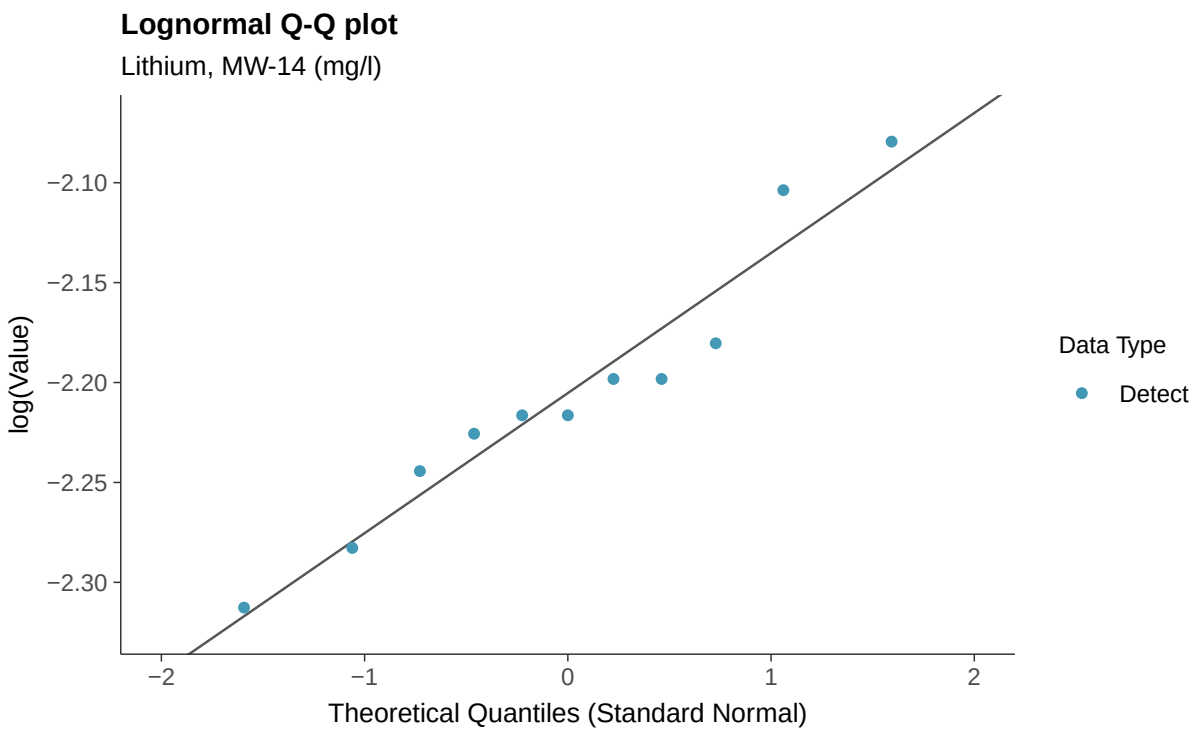
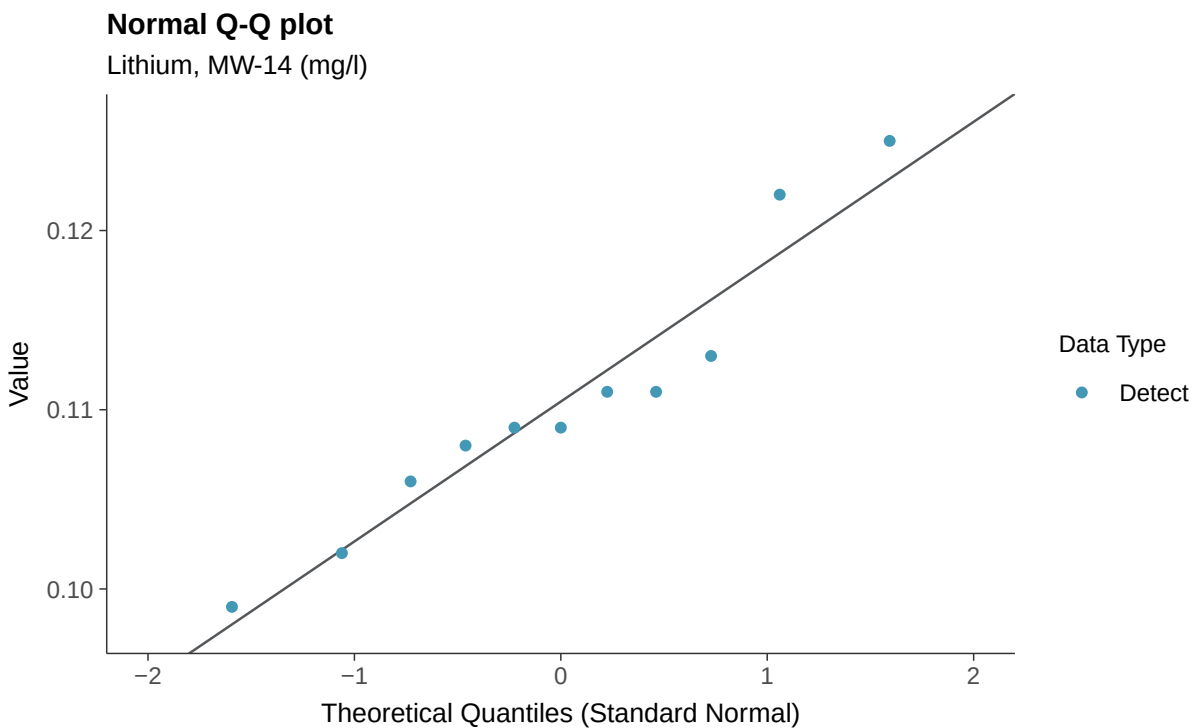


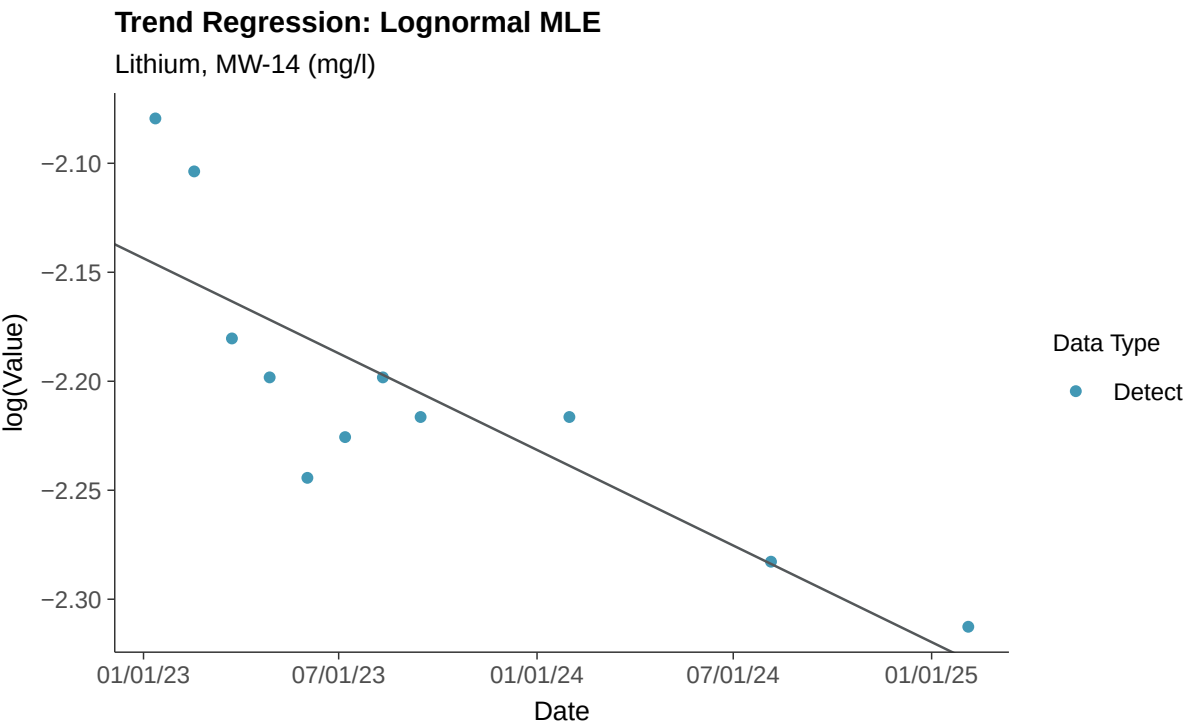
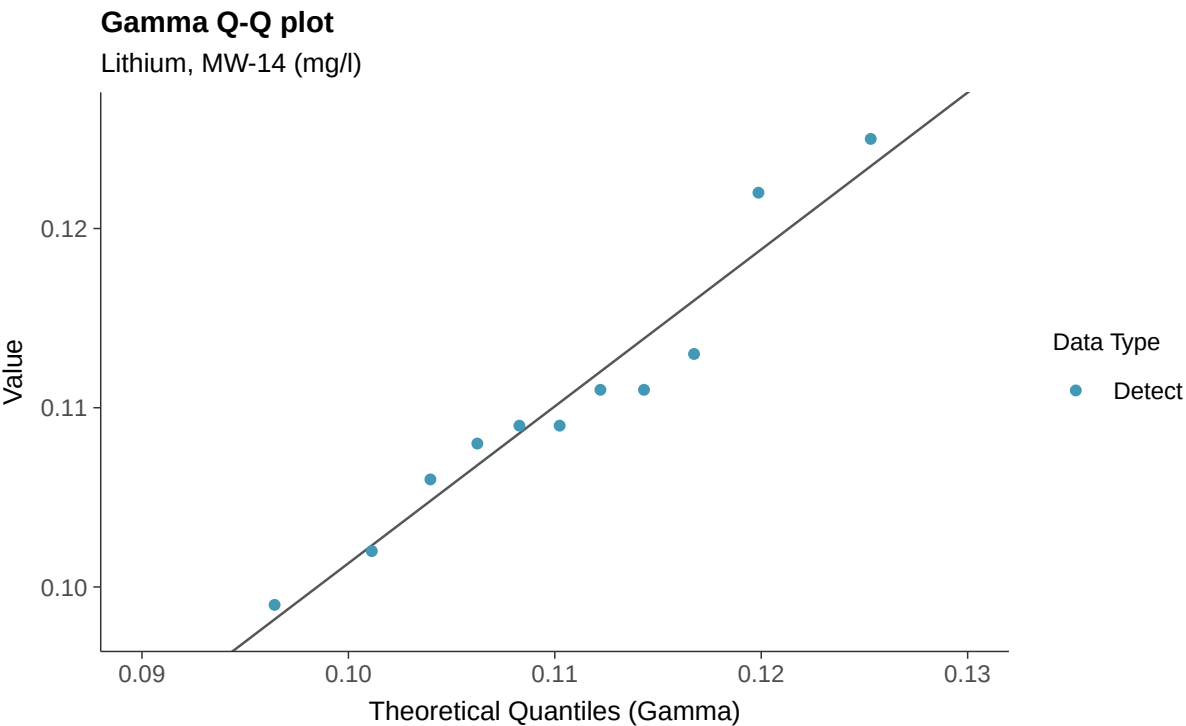
Appendix IV: Lithium, MW-14

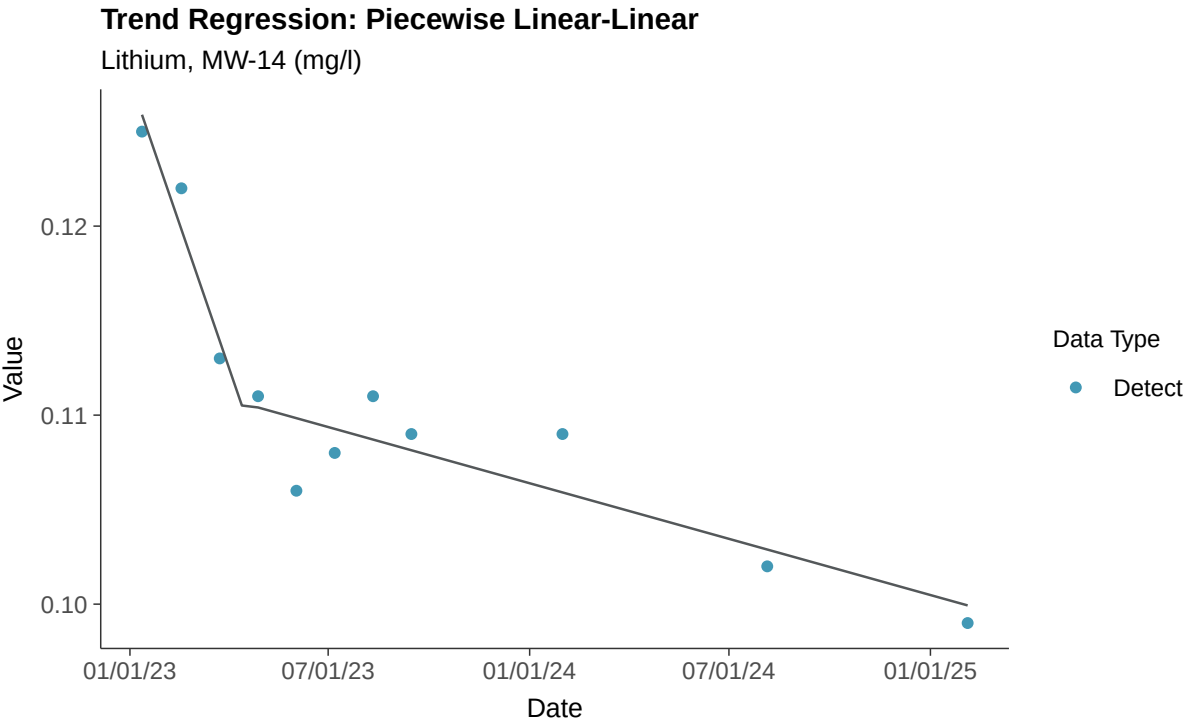
ID: 21_3_116







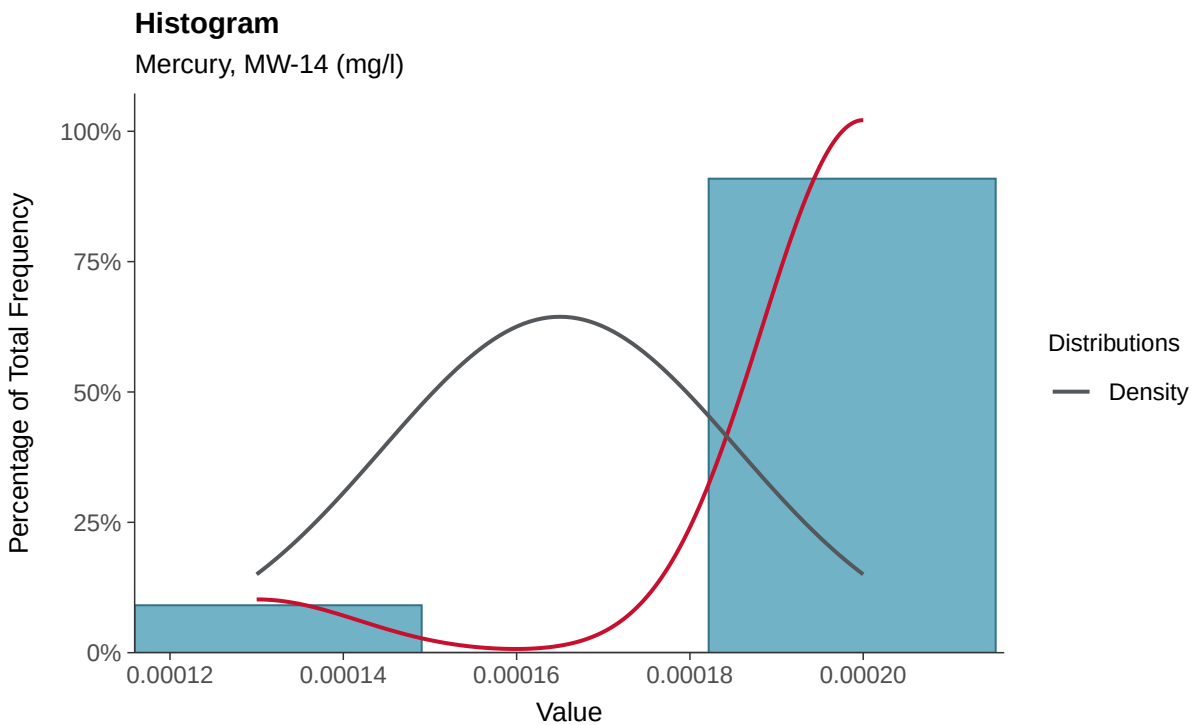
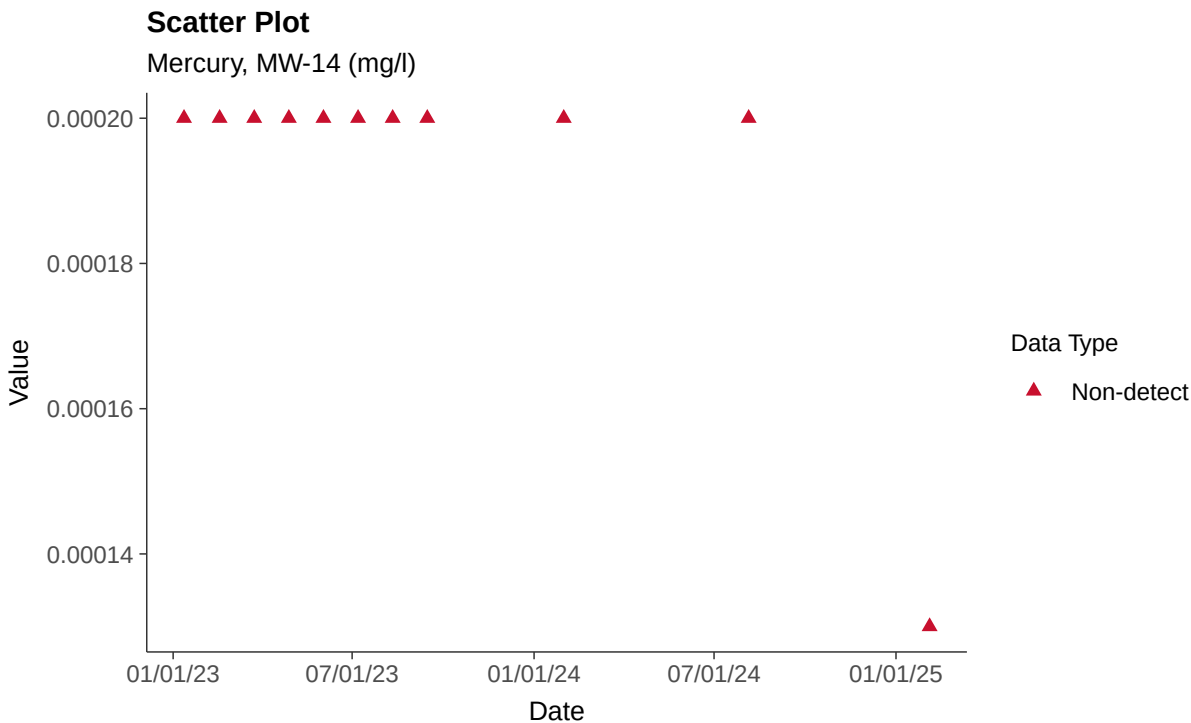


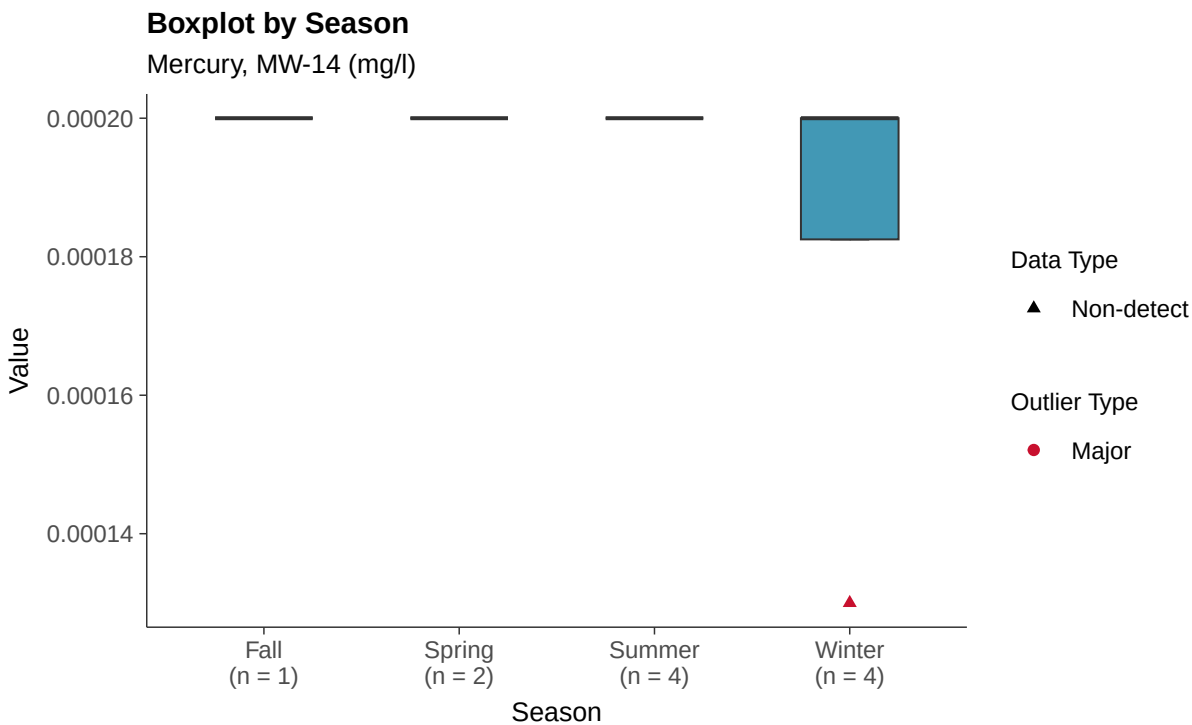
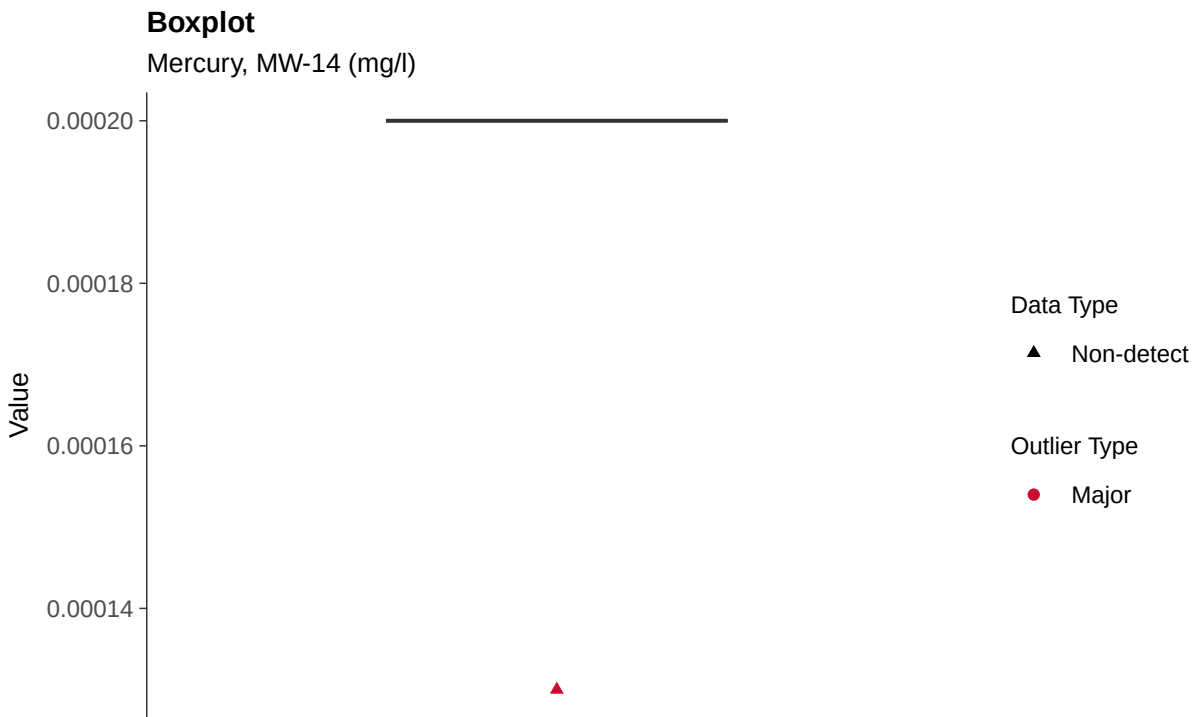




Appendix IV: Mercury, MW-14

ID: 21_3_117

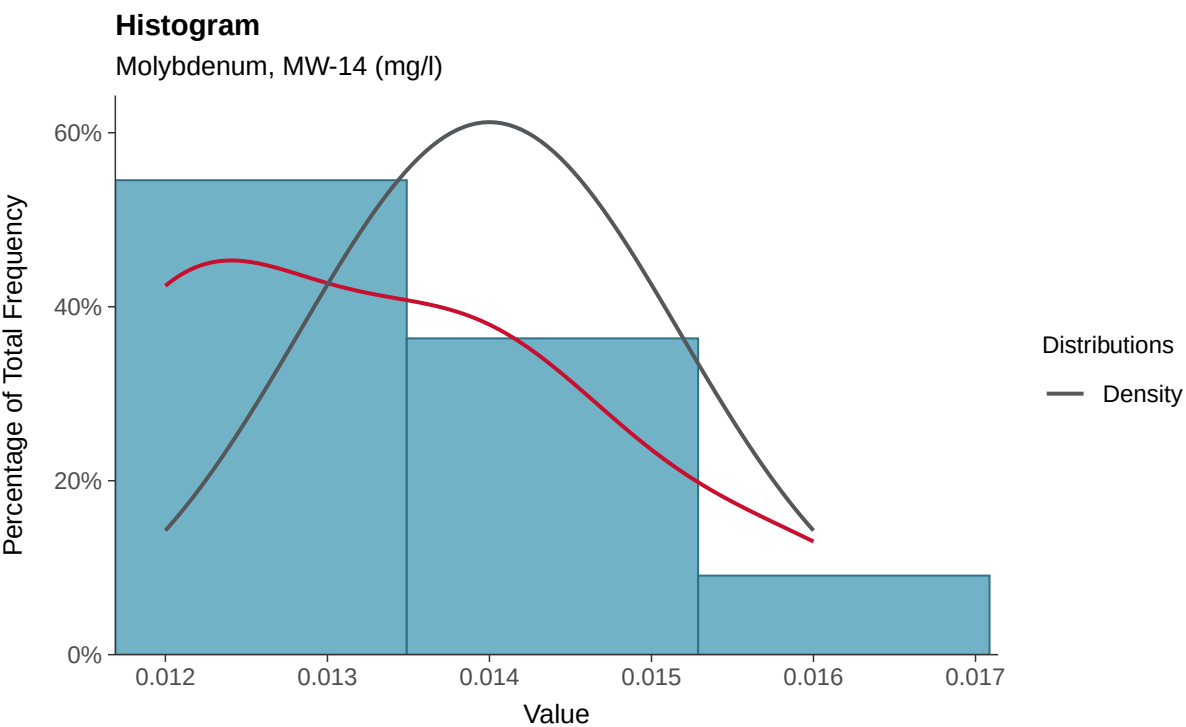
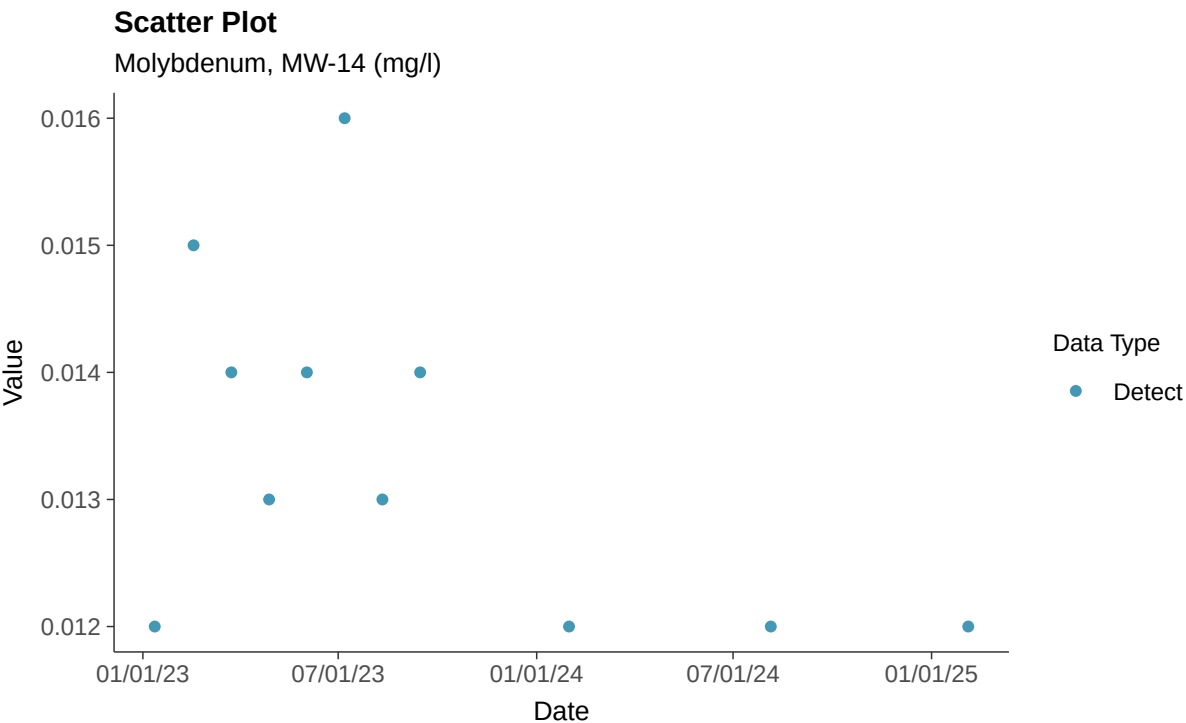


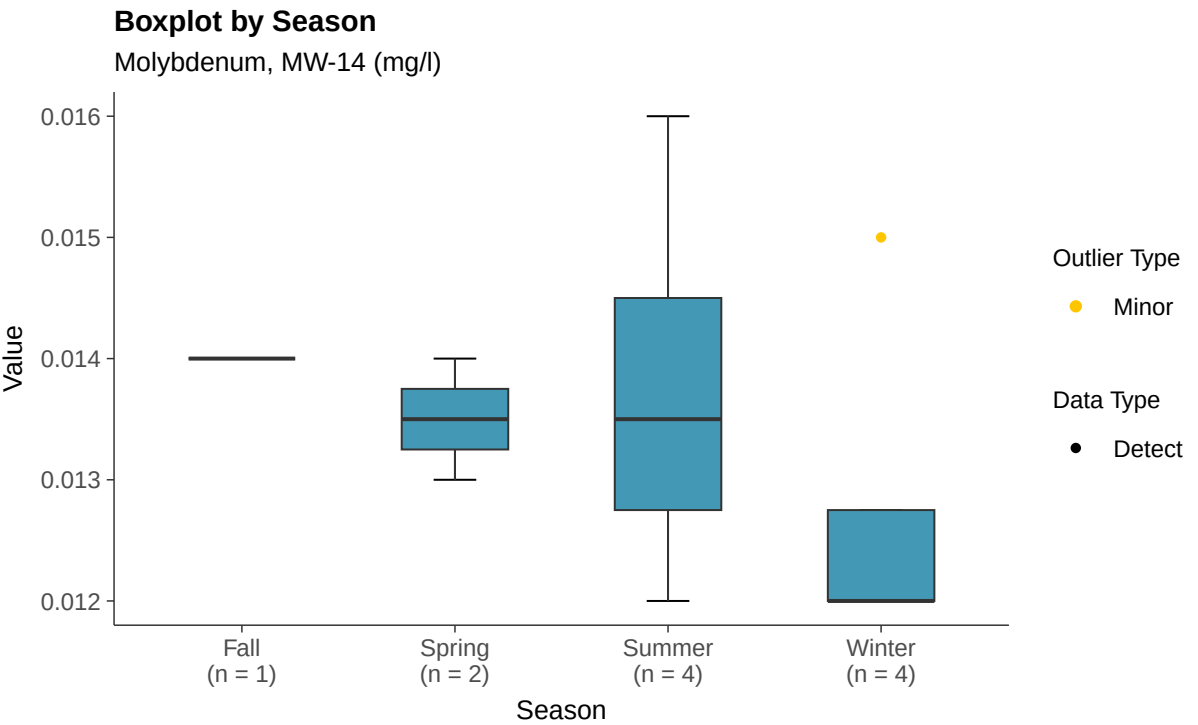
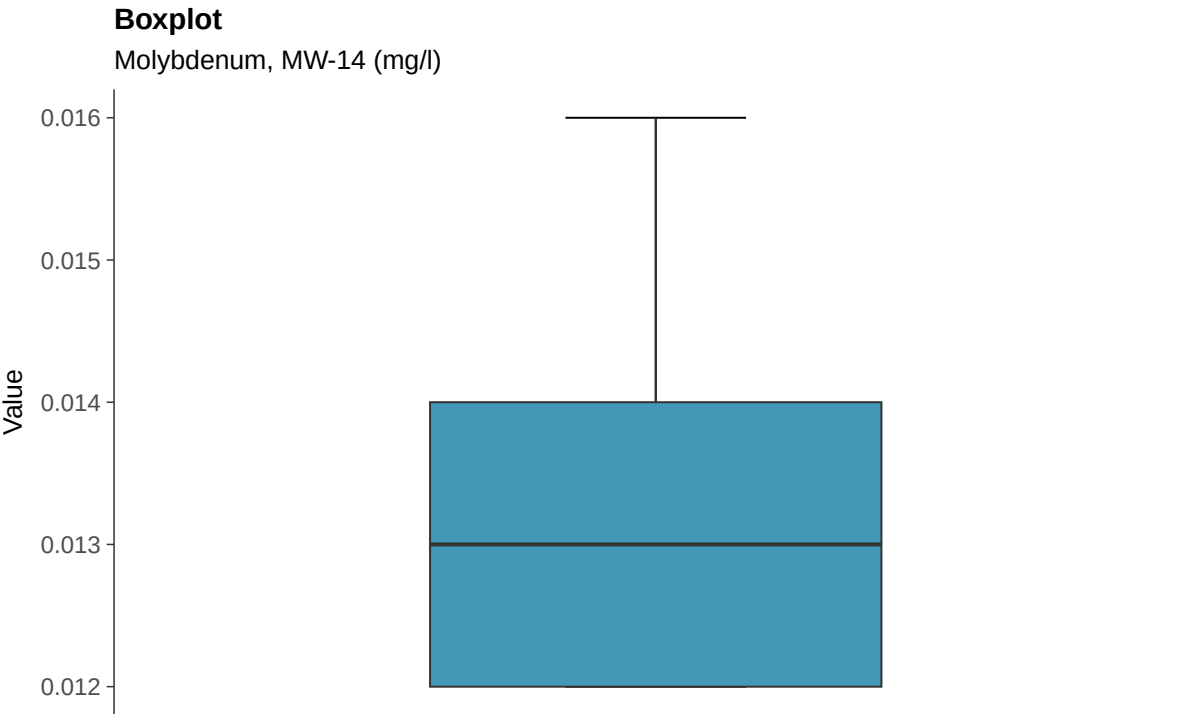


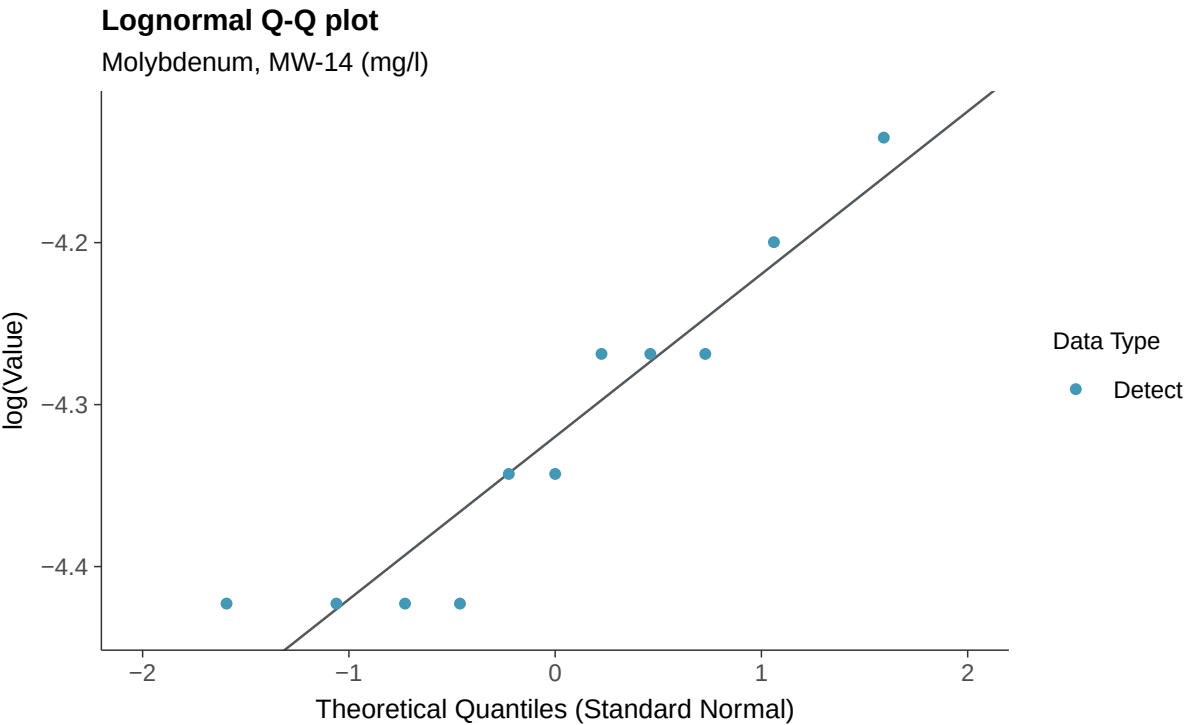
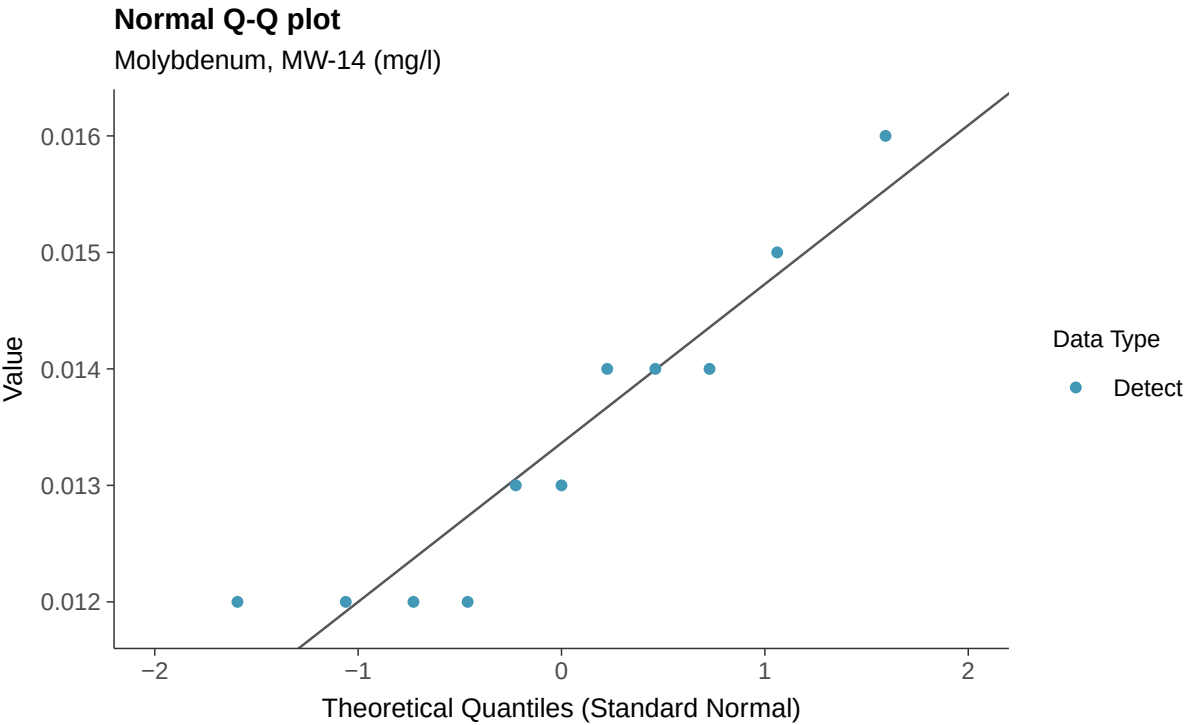


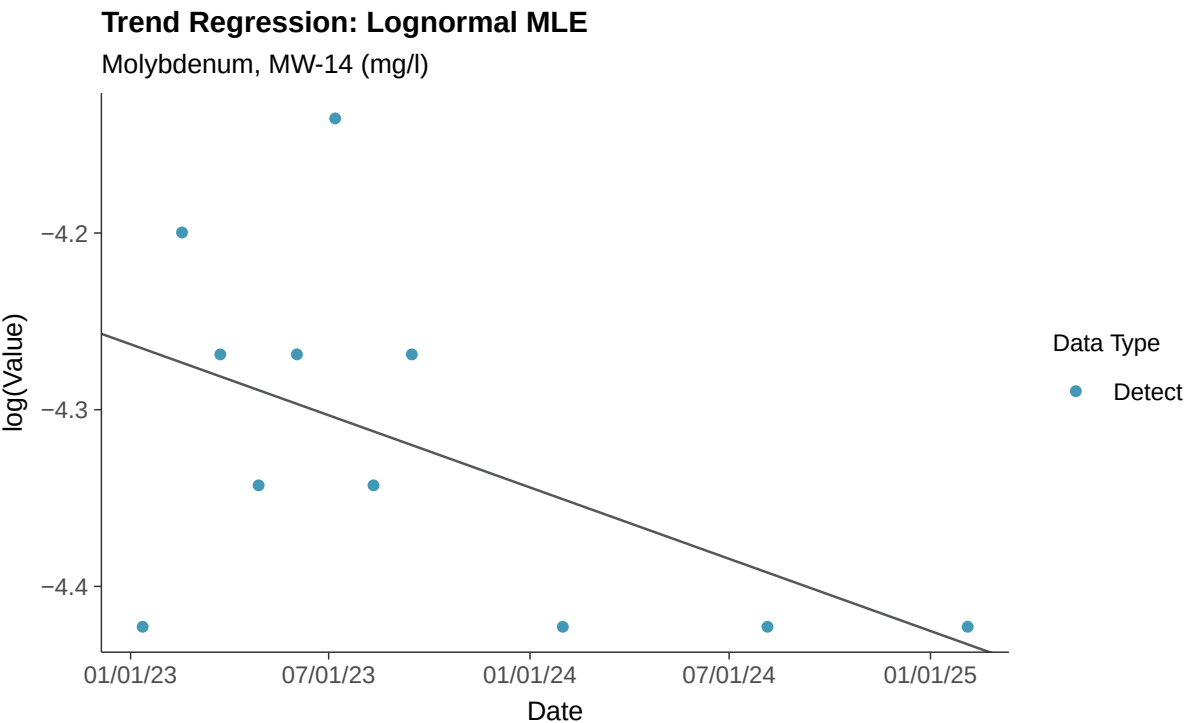
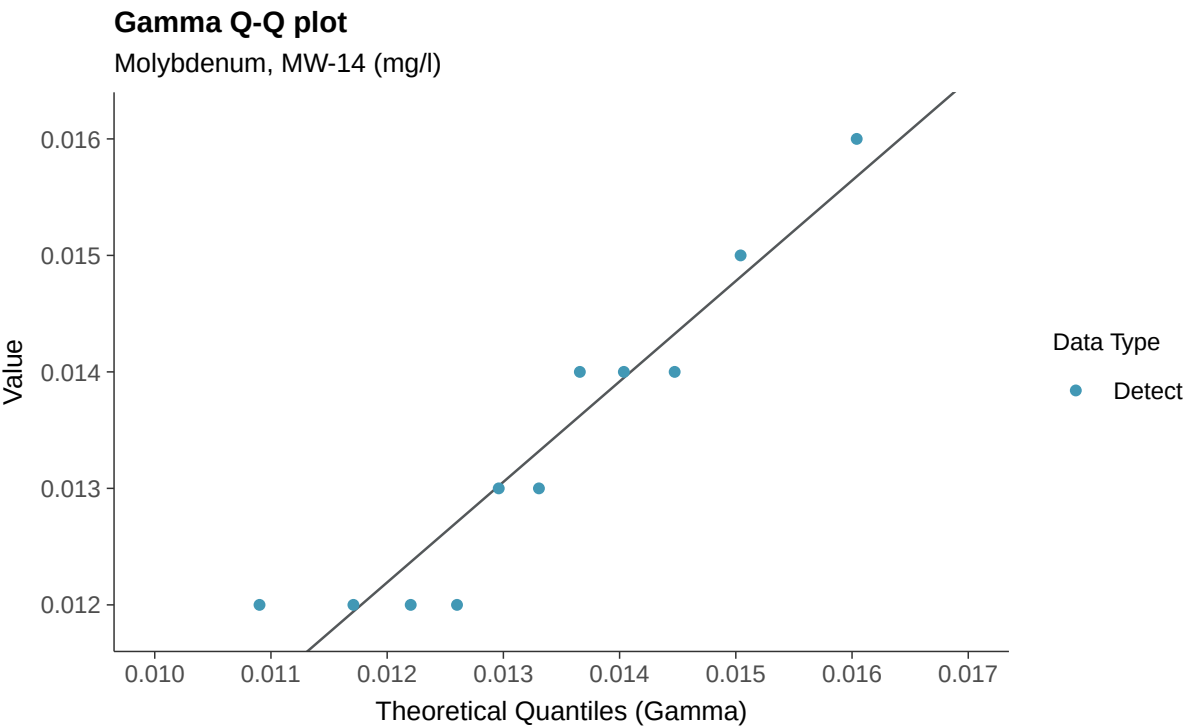
Appendix IV: Molybdenum, MW-14

ID: 21_3_118





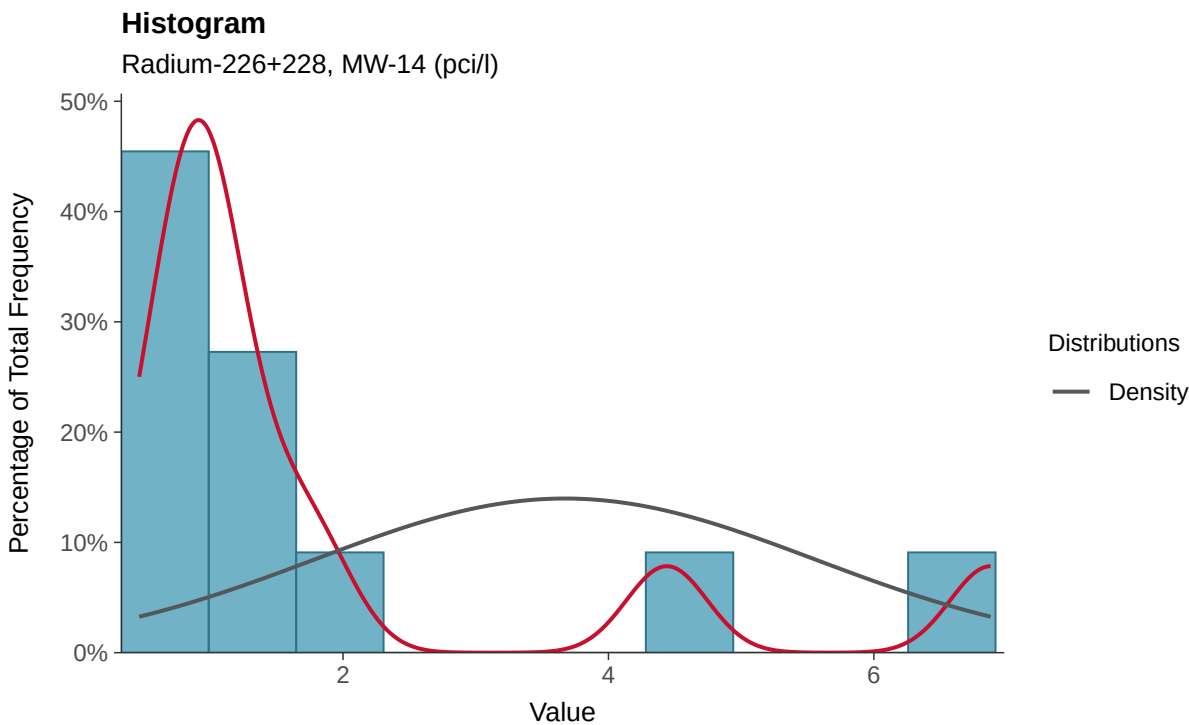
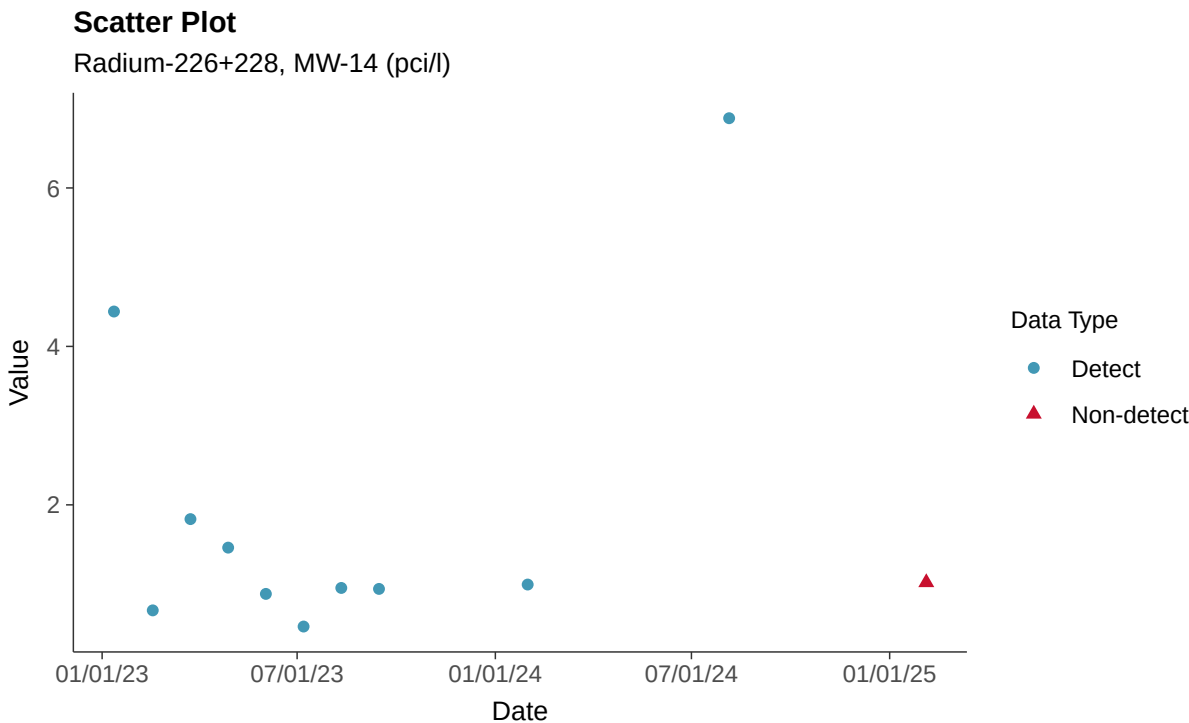






Appendix IV: Radium-226+228, MW-14

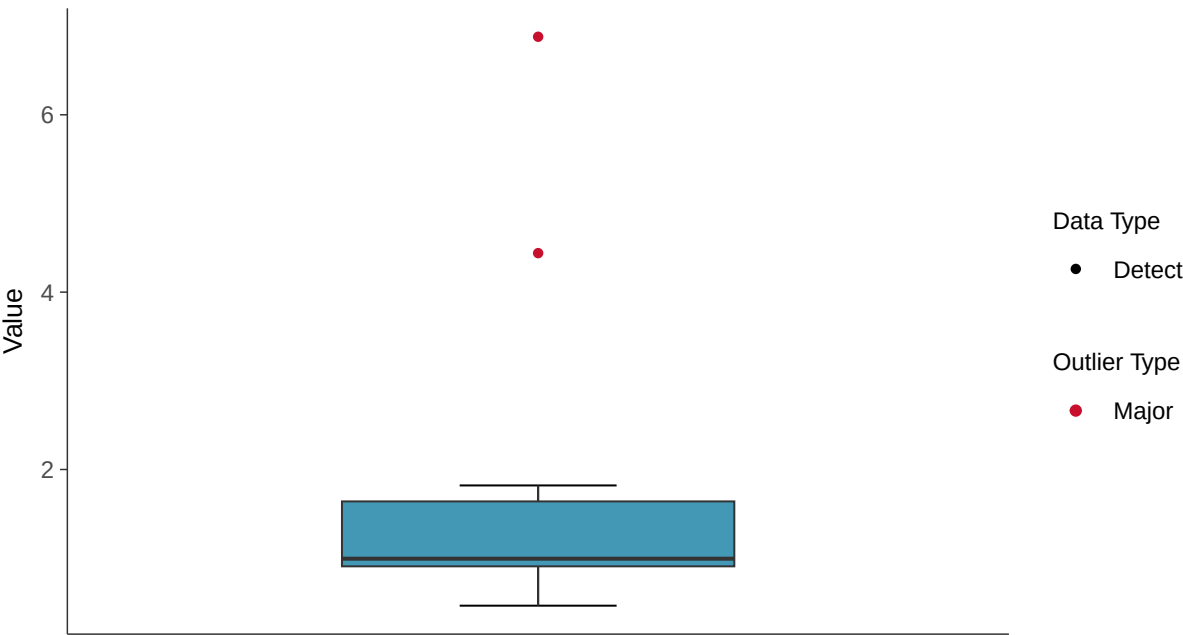
ID: 21_3_121





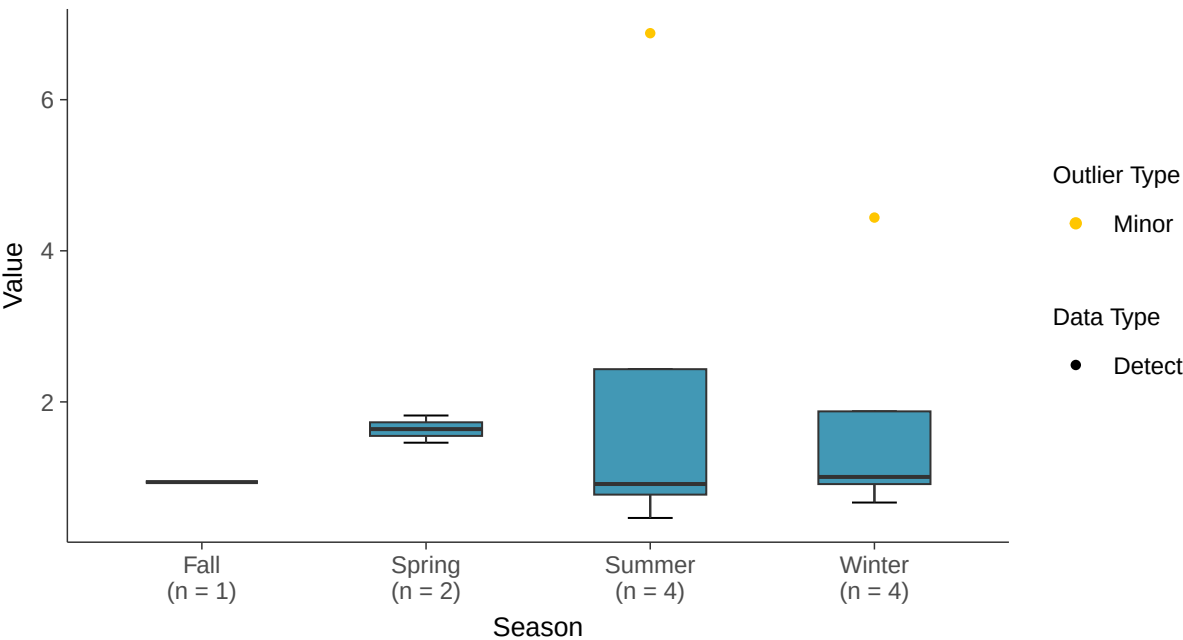
Boxplot

Radium-226+228, MW-14 (pci/l)



Boxplot by Season

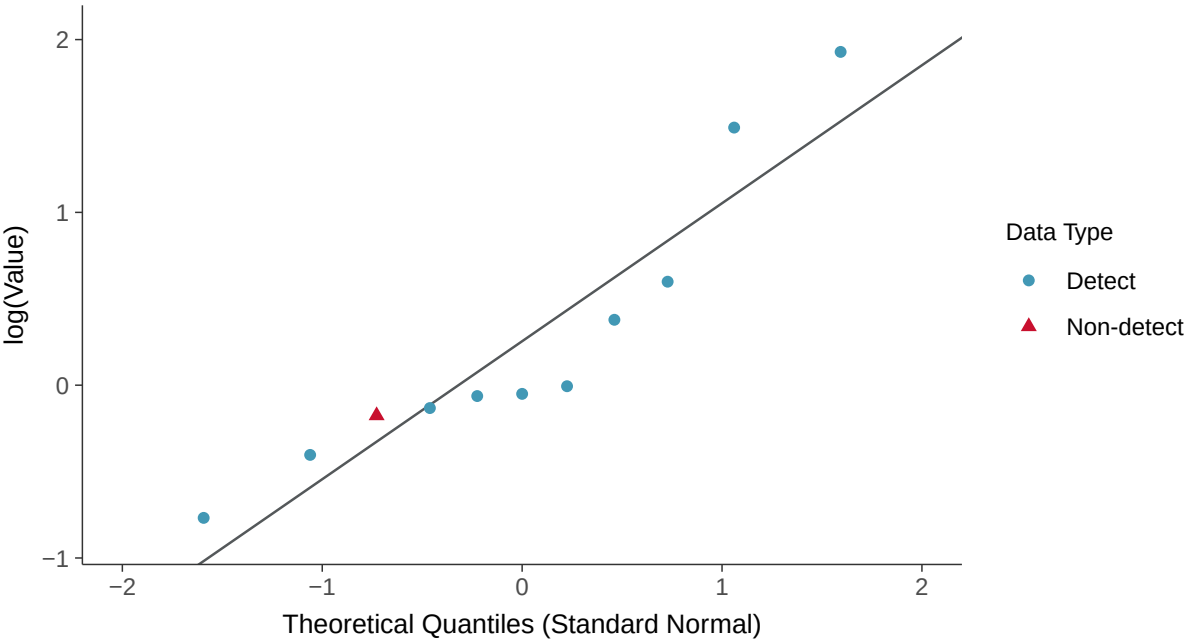
Radium-226+228, MW-14 (pci/l)





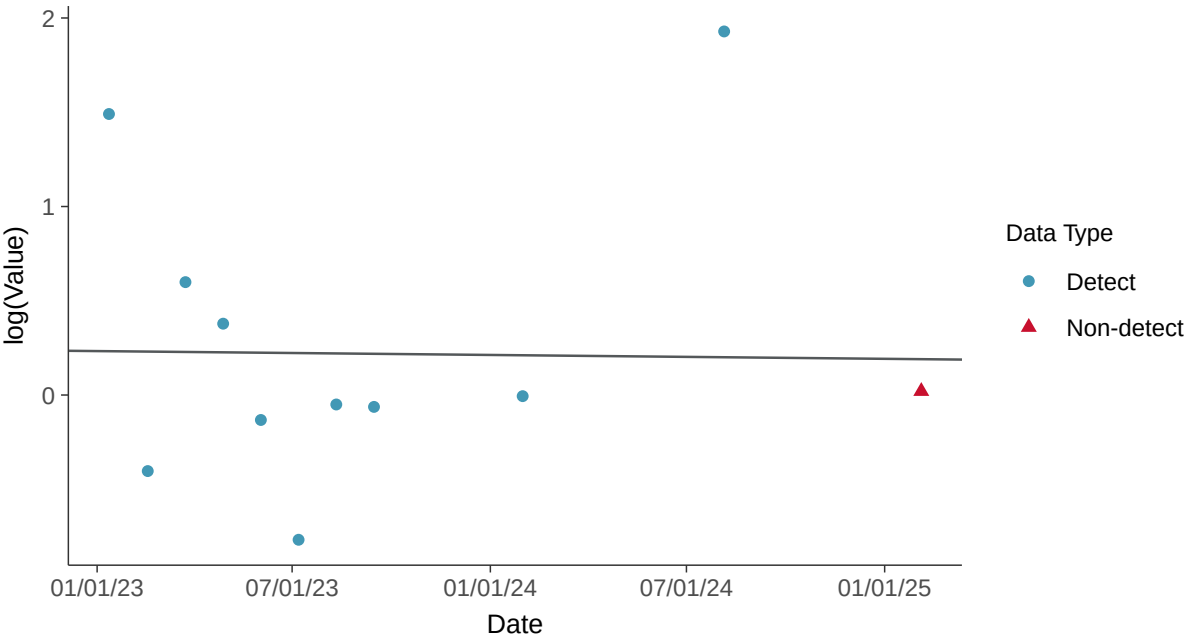
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-14 (pci/l)



Trend Regression: Lognormal MLE

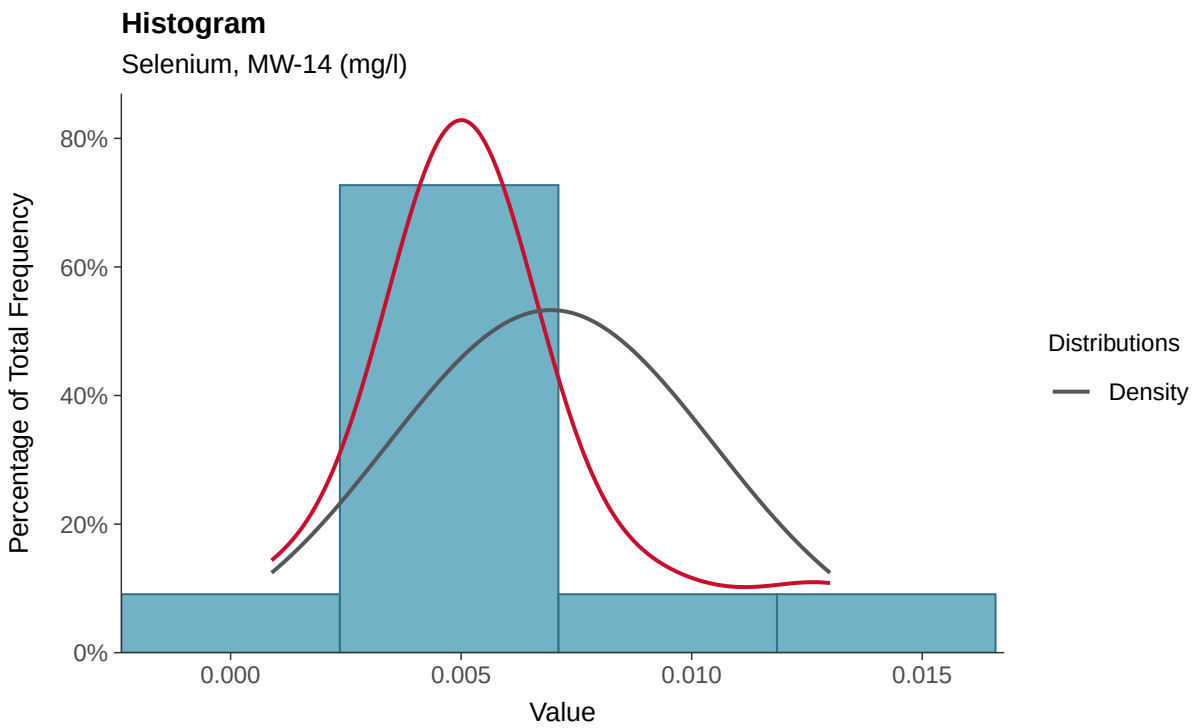
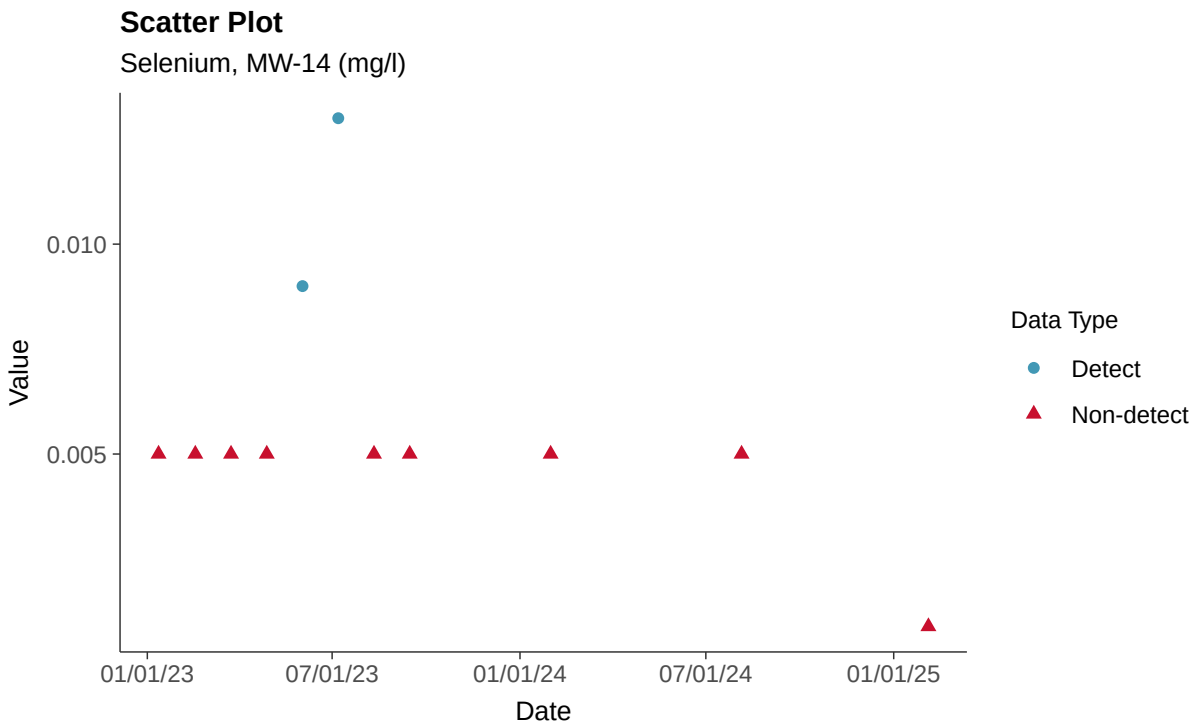
Radium-226+228, MW-14 (pci/l)

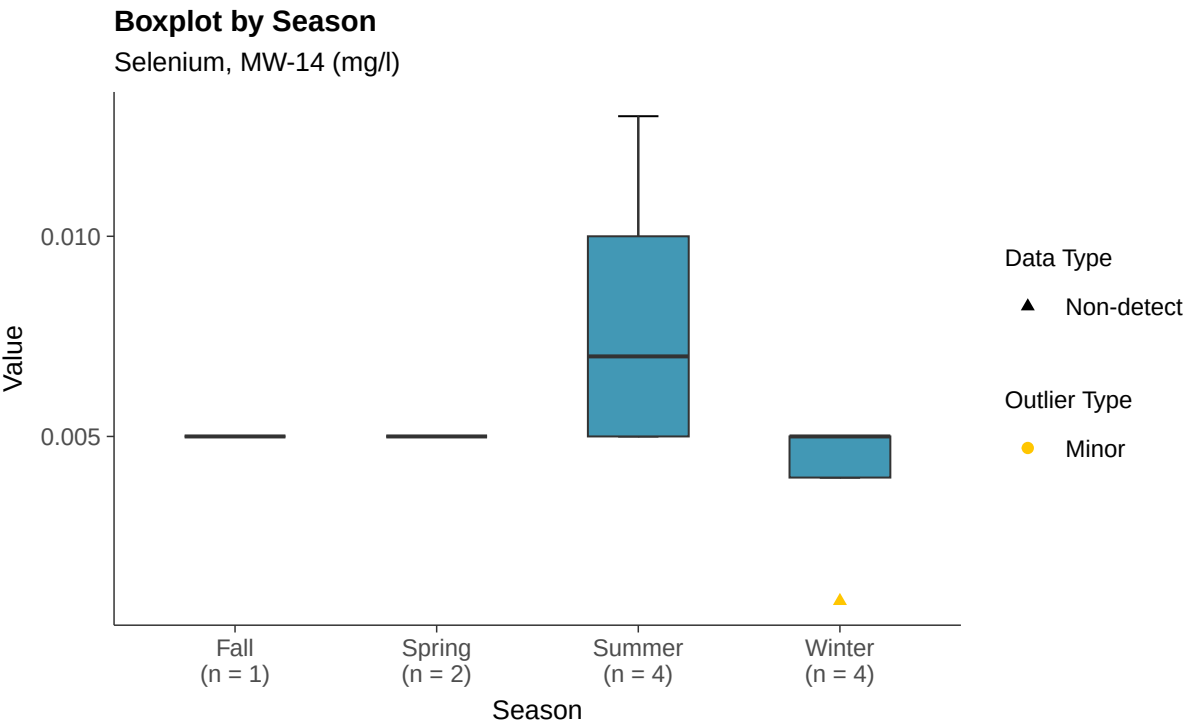
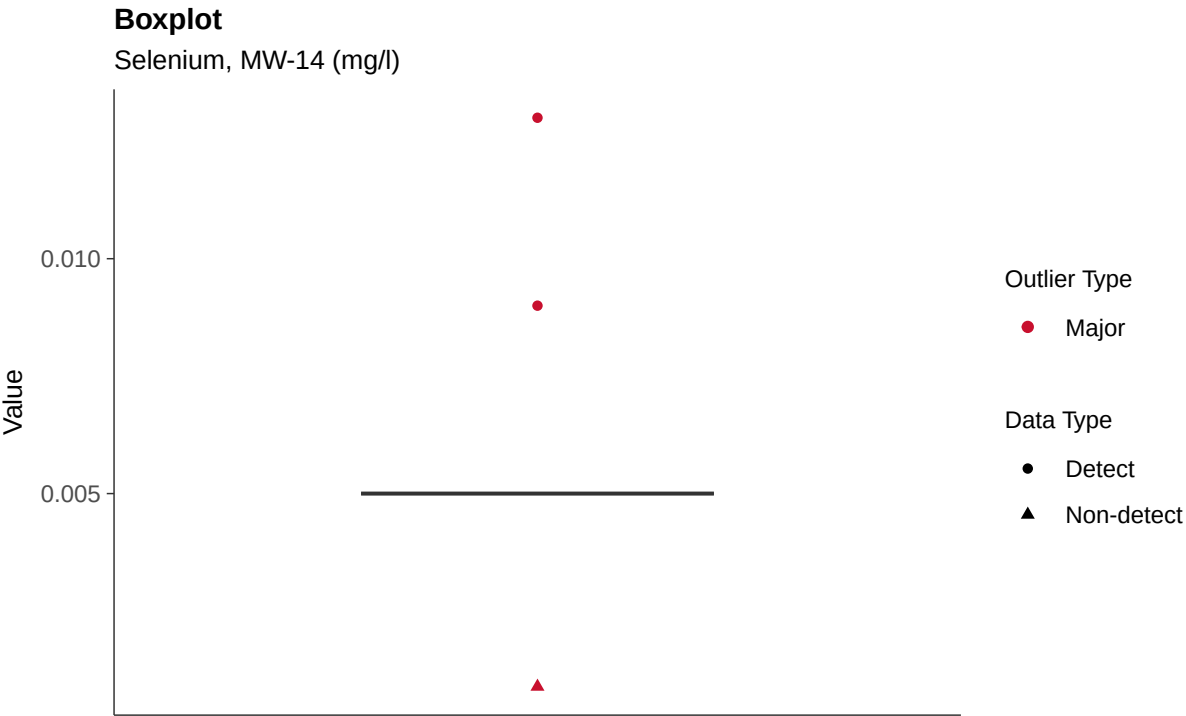


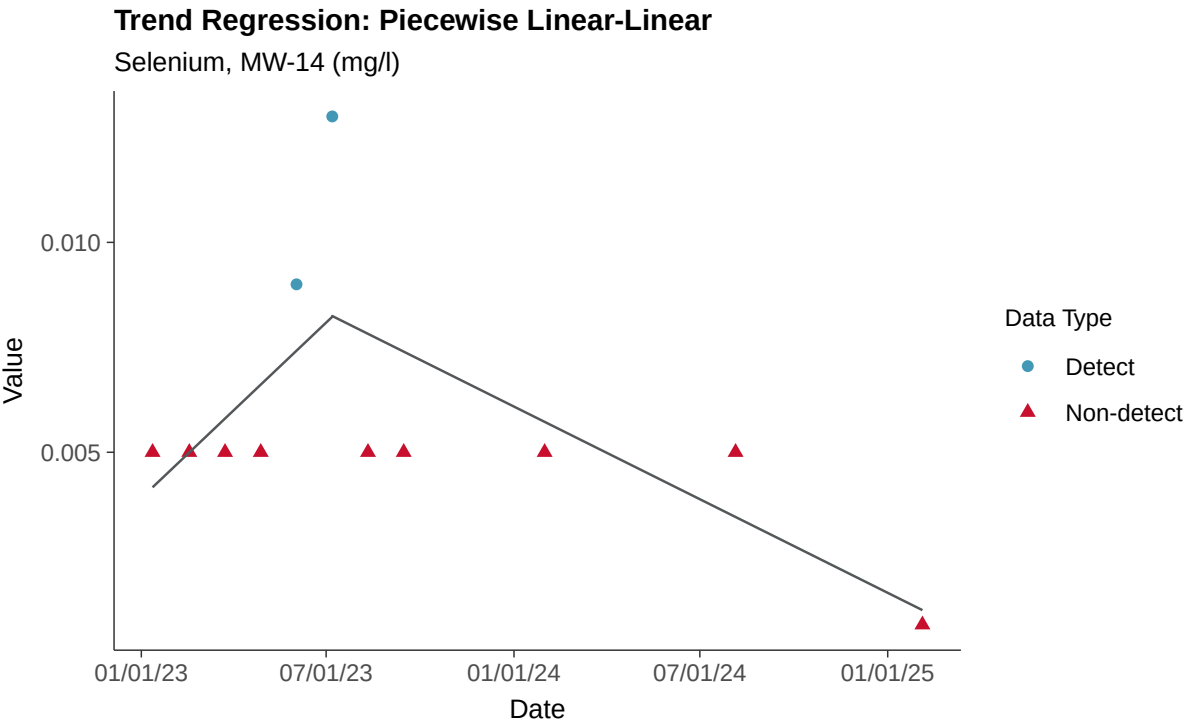
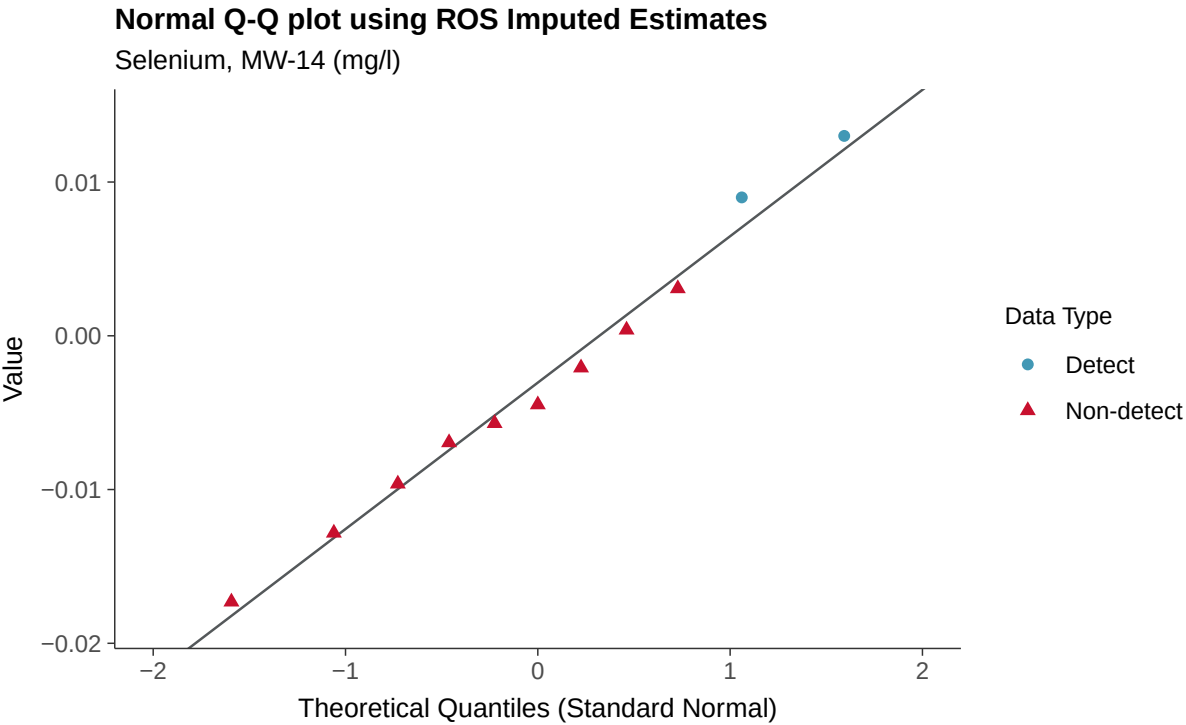


Appendix IV: Selenium, MW-14

ID: 21_3_122



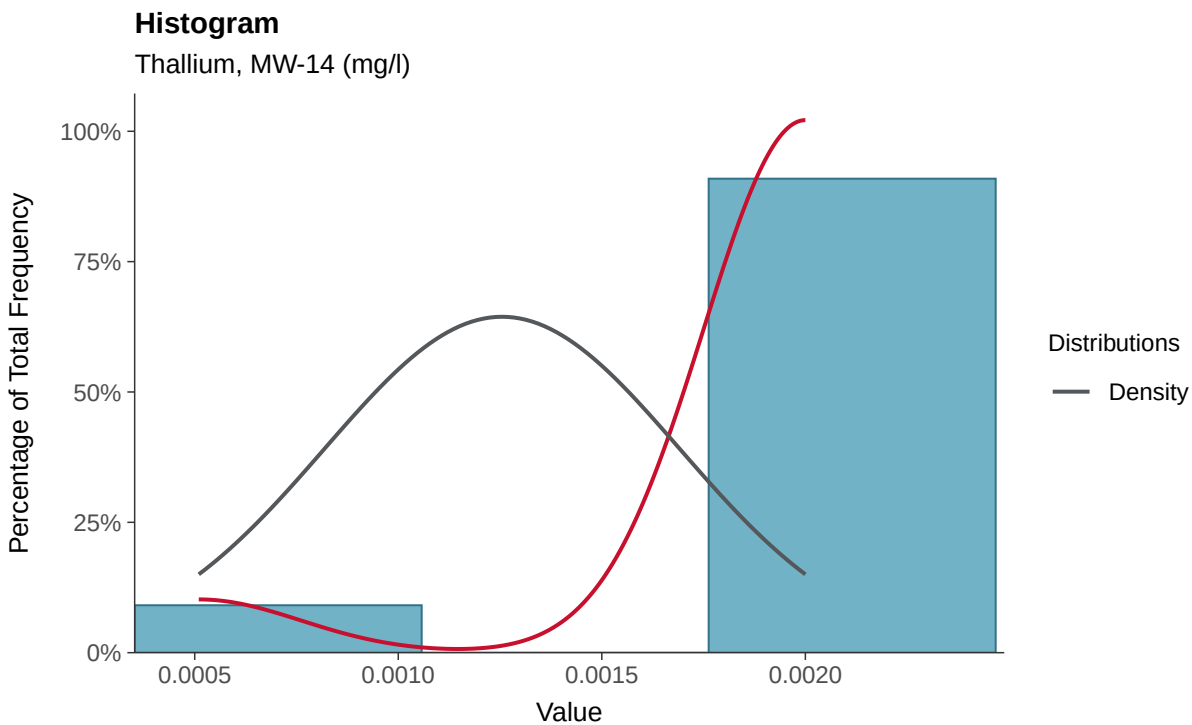
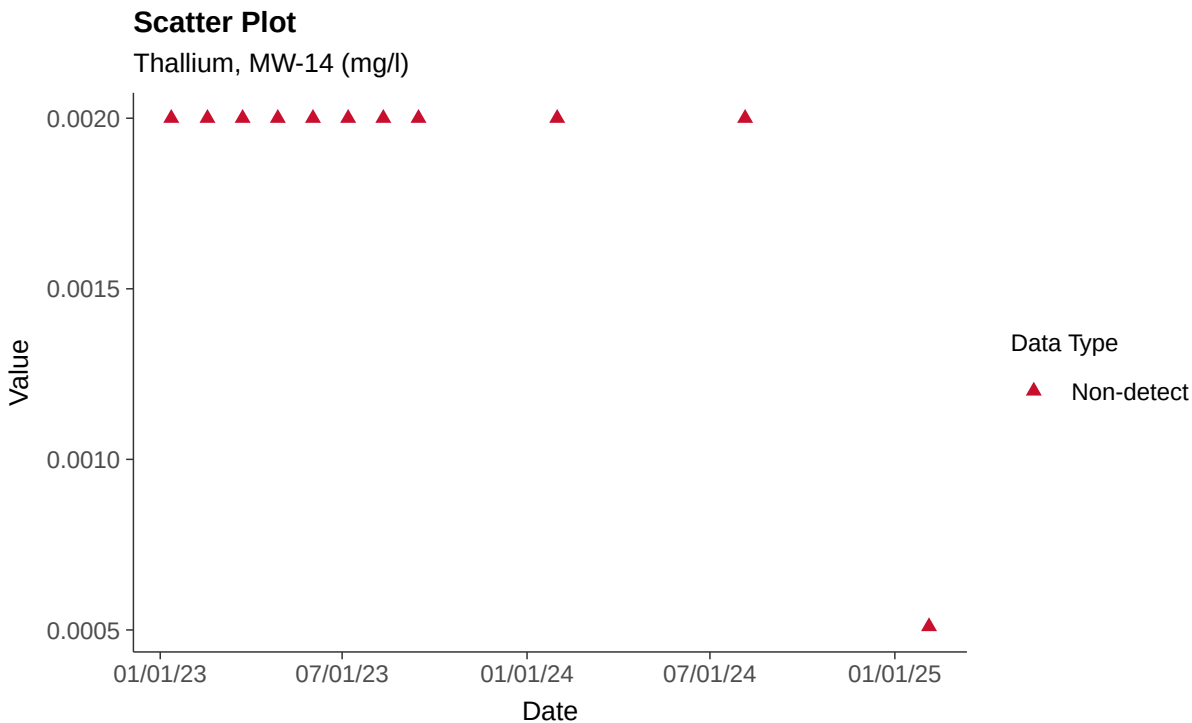


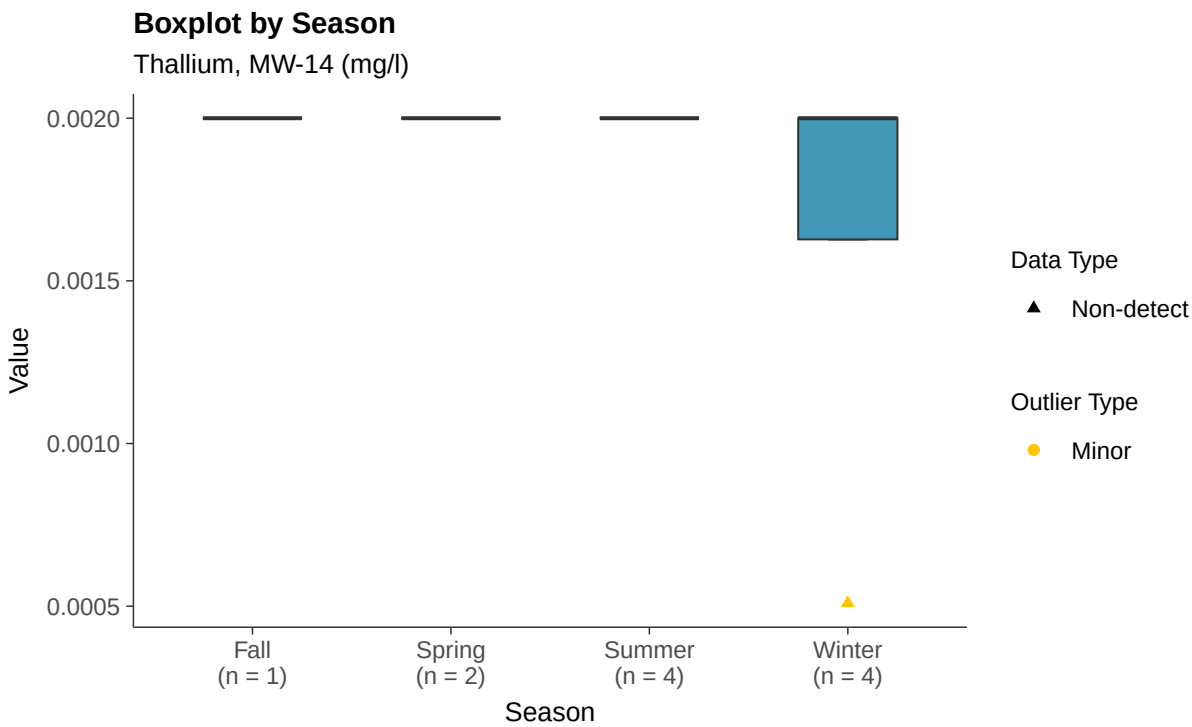
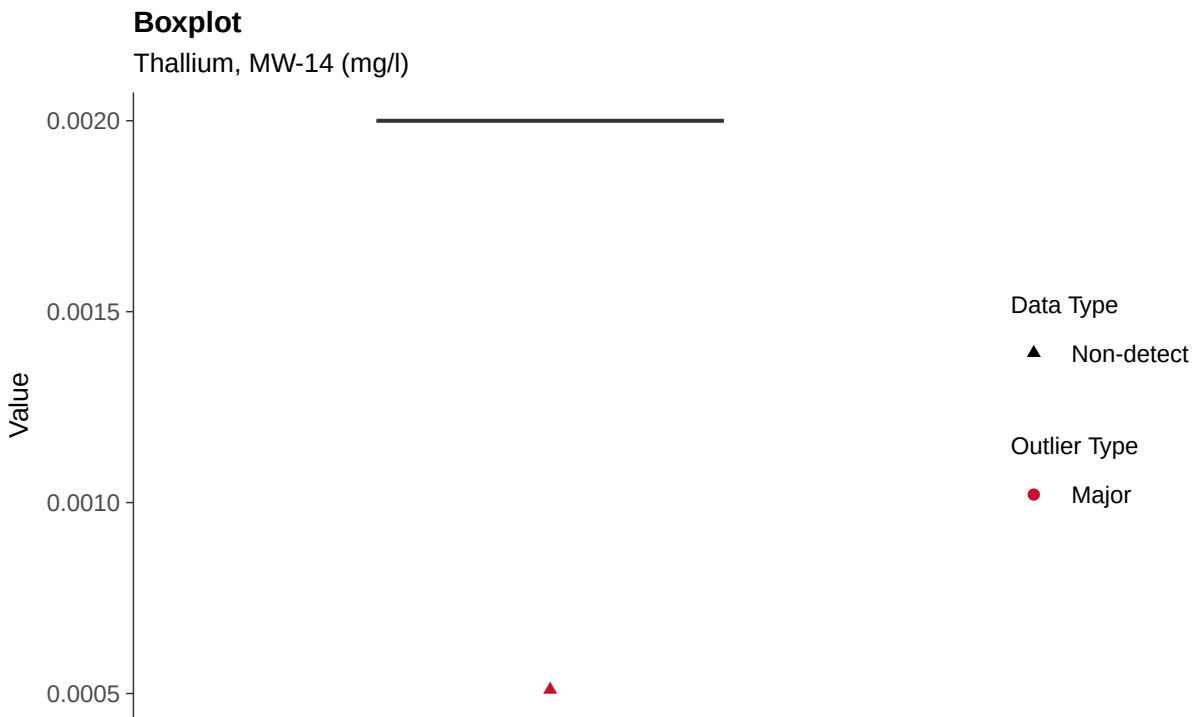




Appendix IV: Thallium, MW-14

ID: 21_3_125

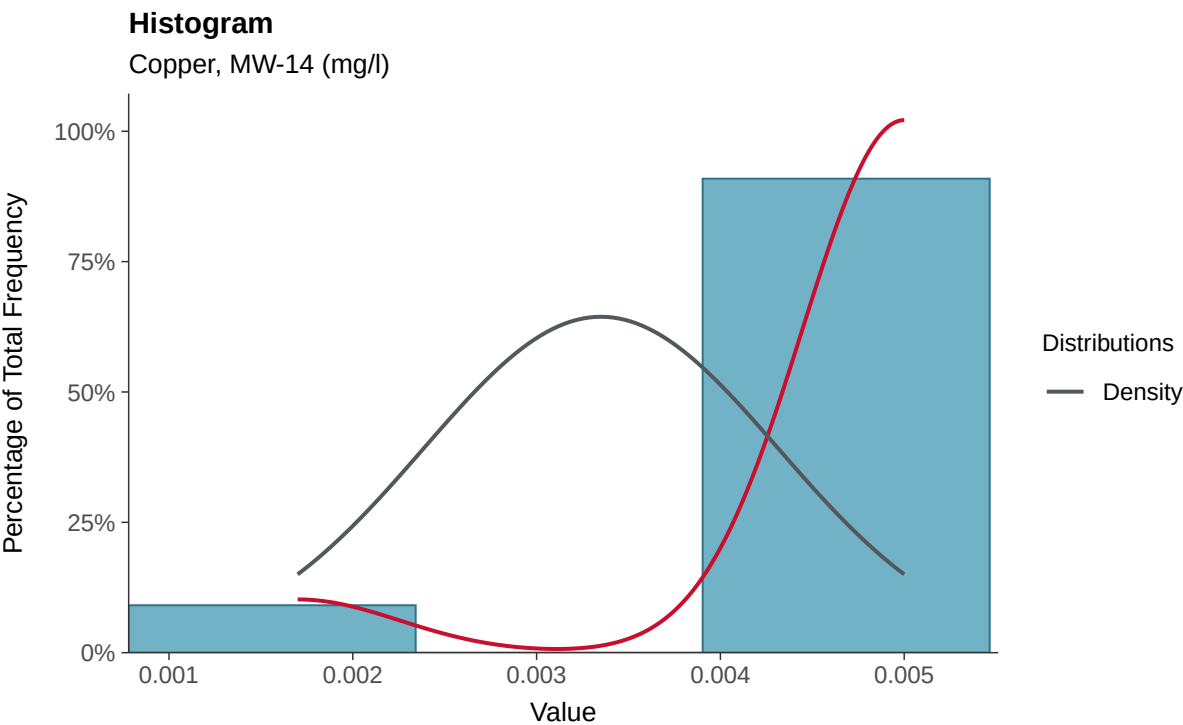
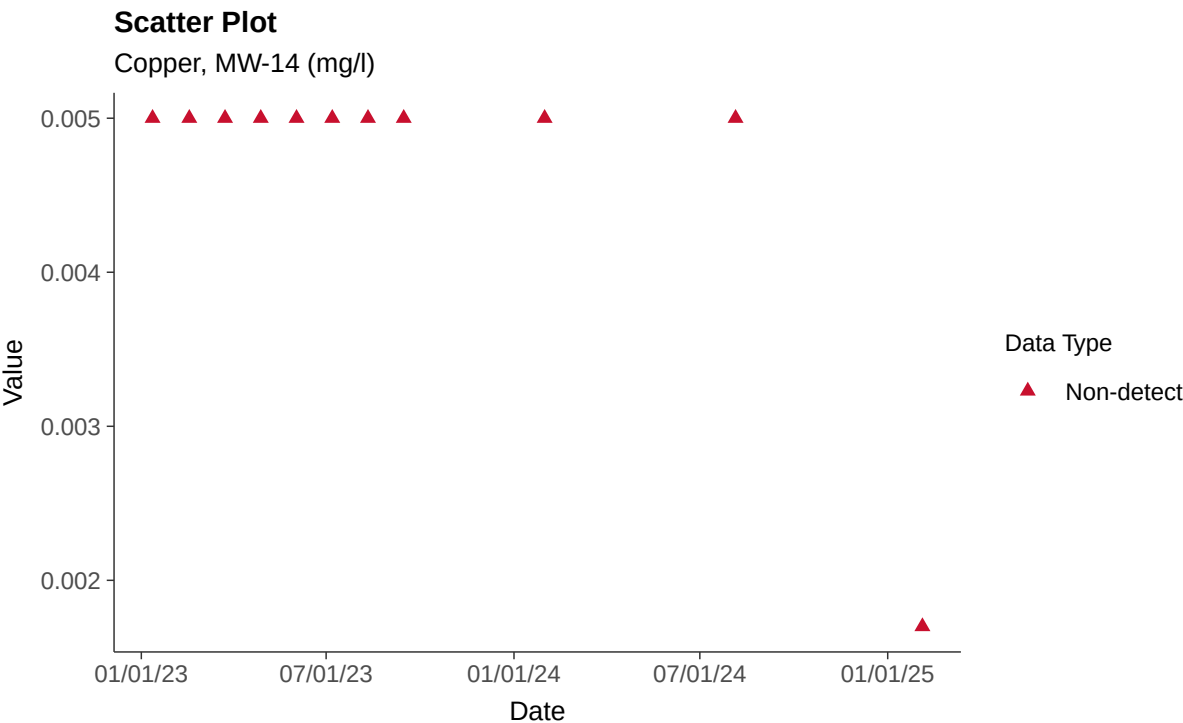


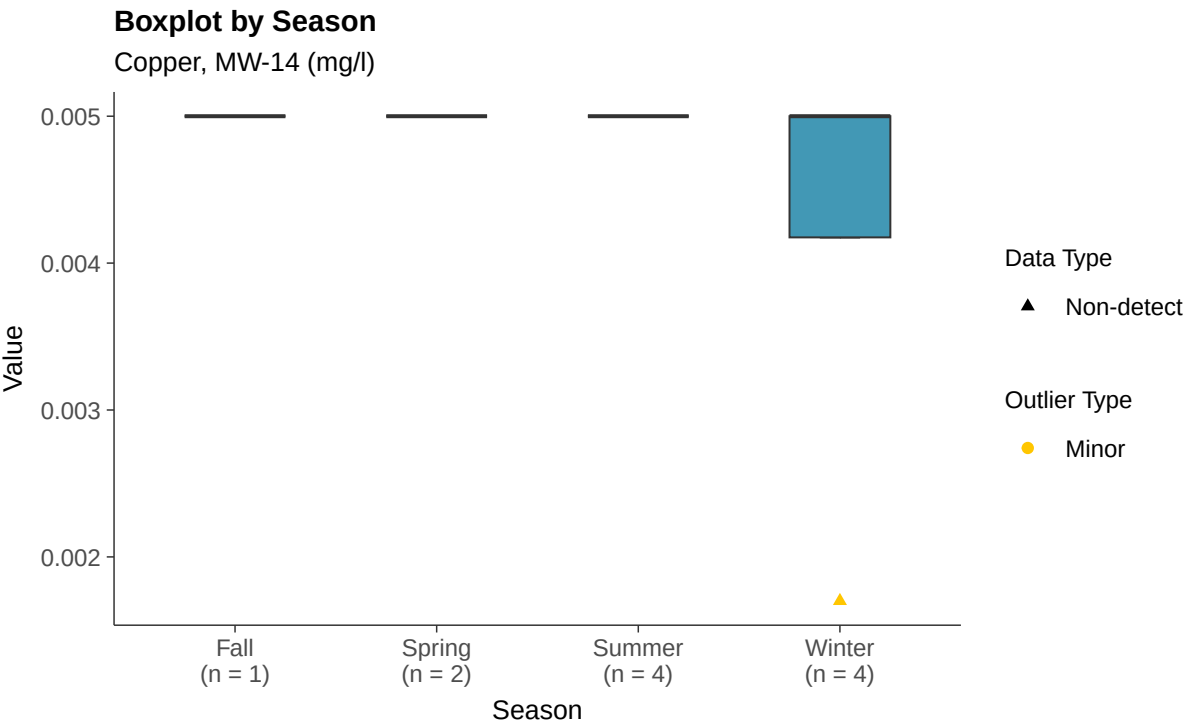
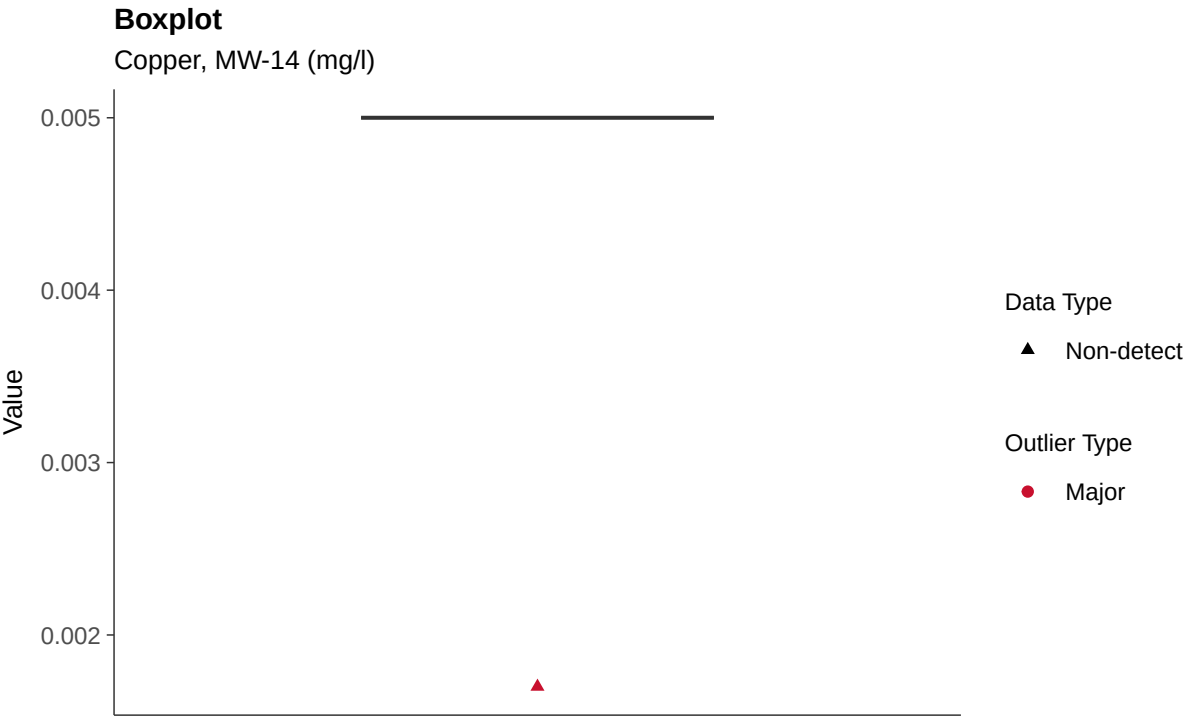




Part 115: Copper, MW-14

ID: 21_5_111

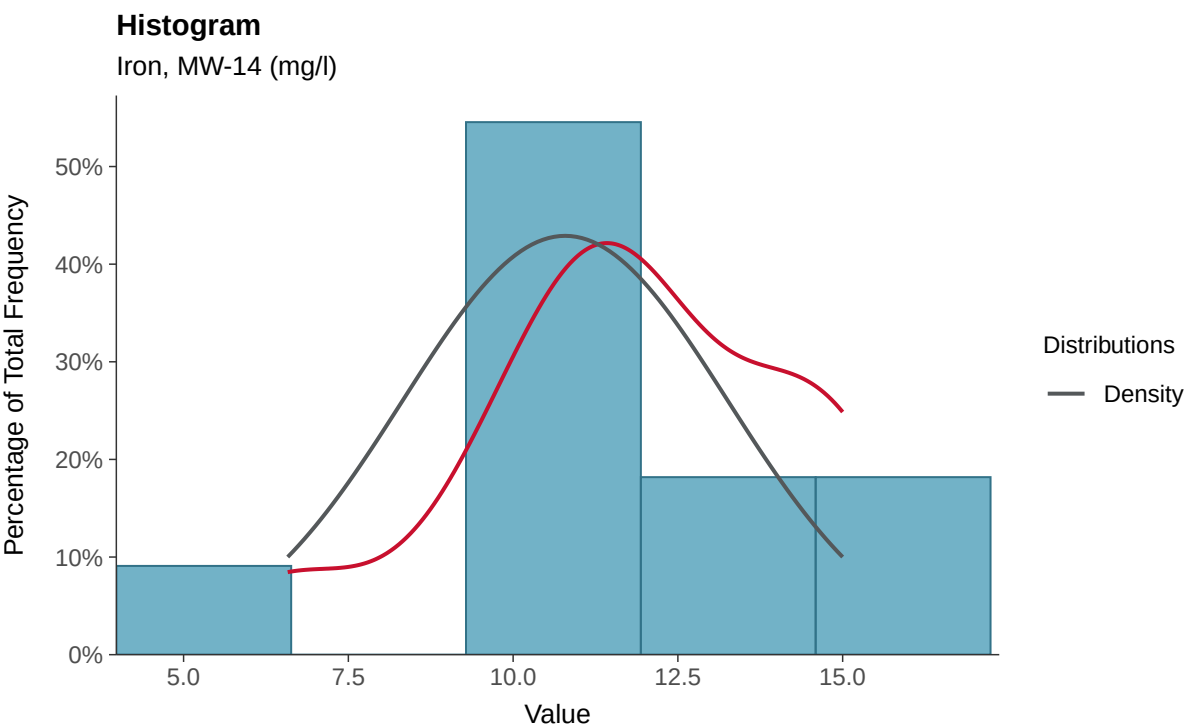
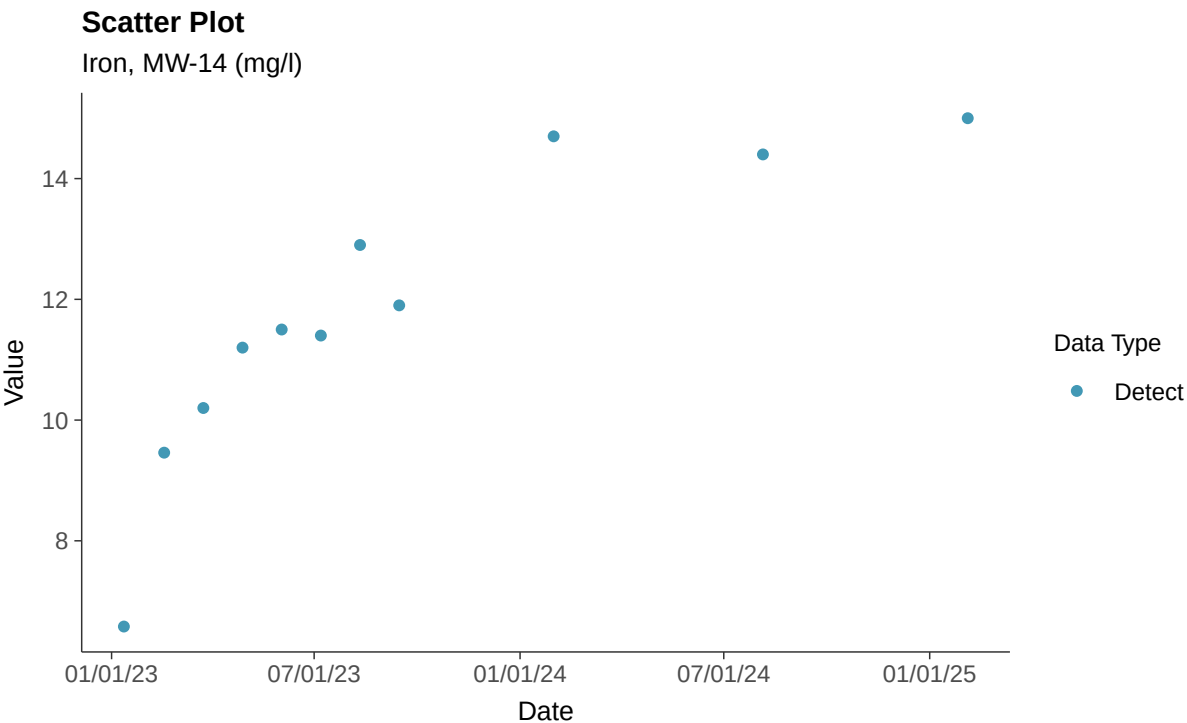


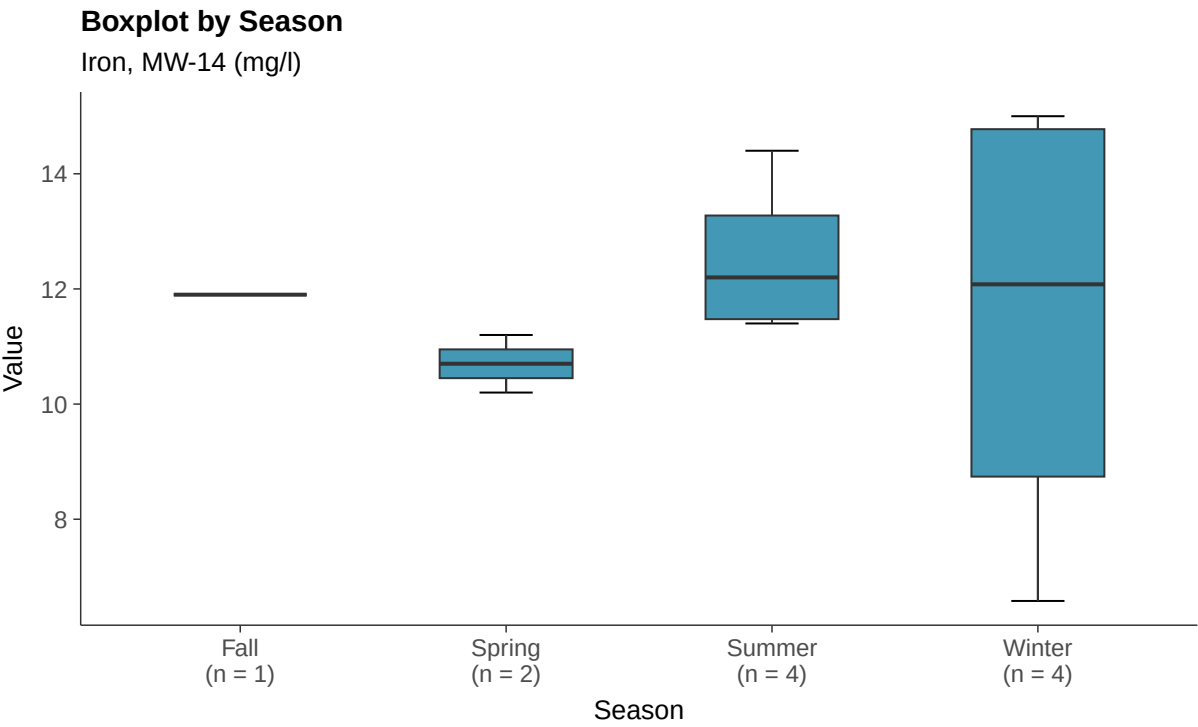
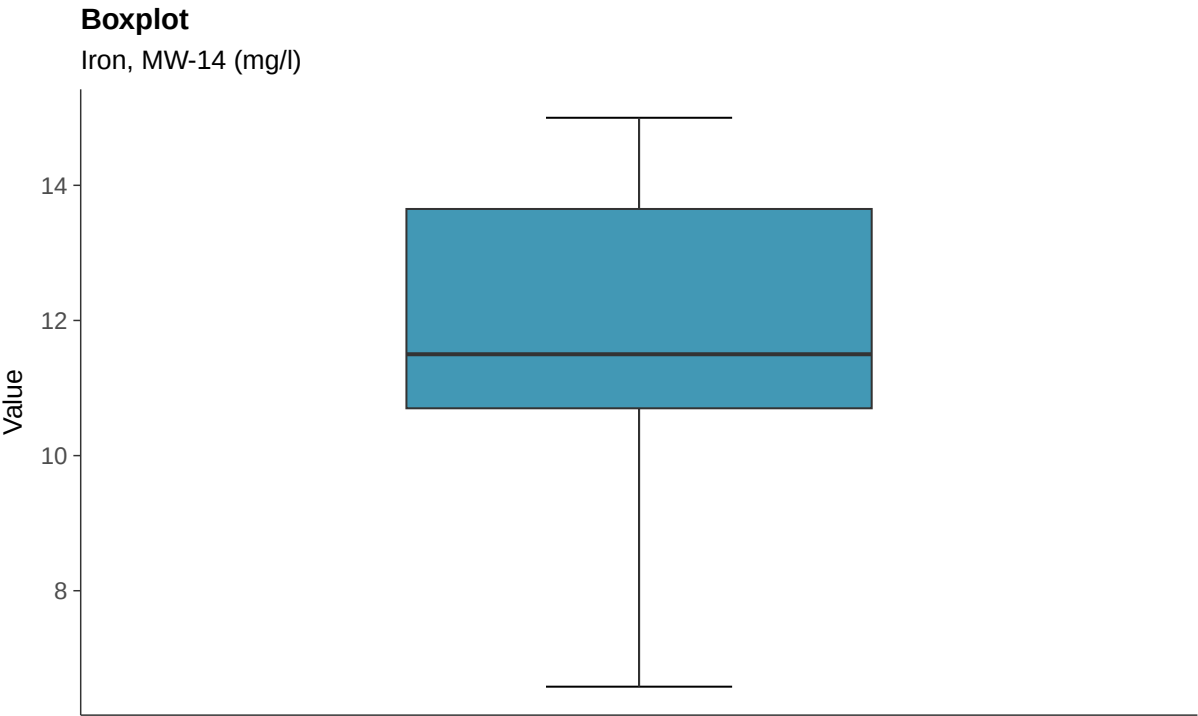


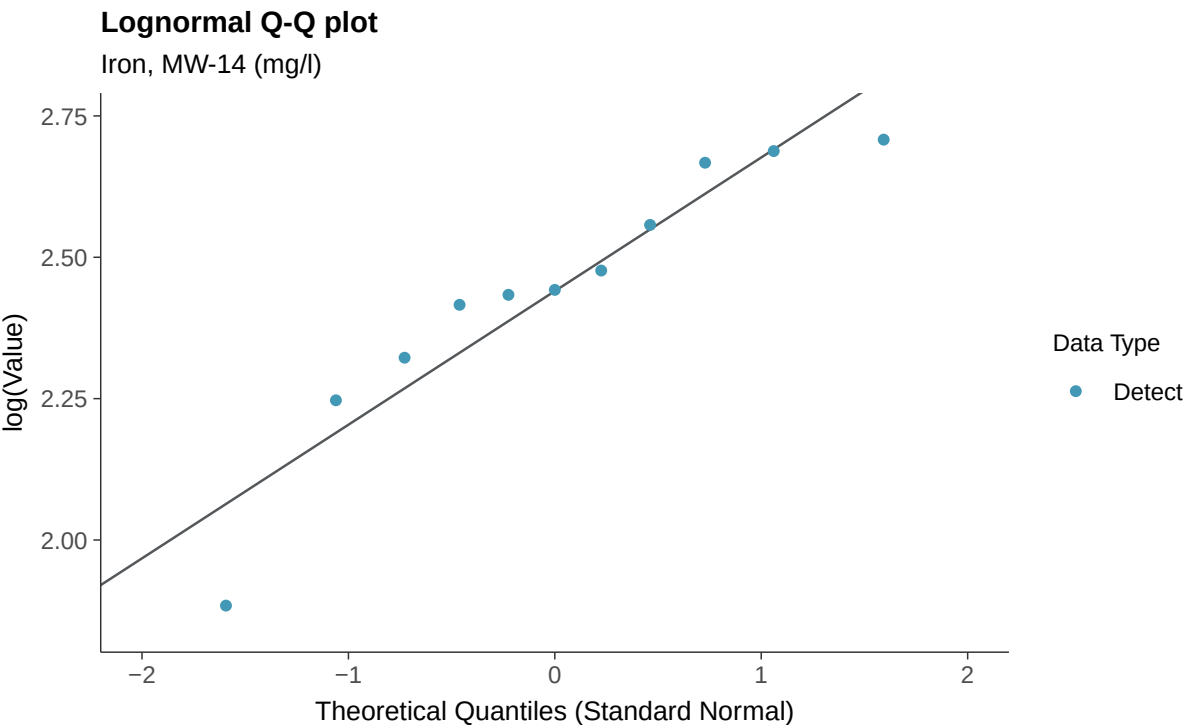
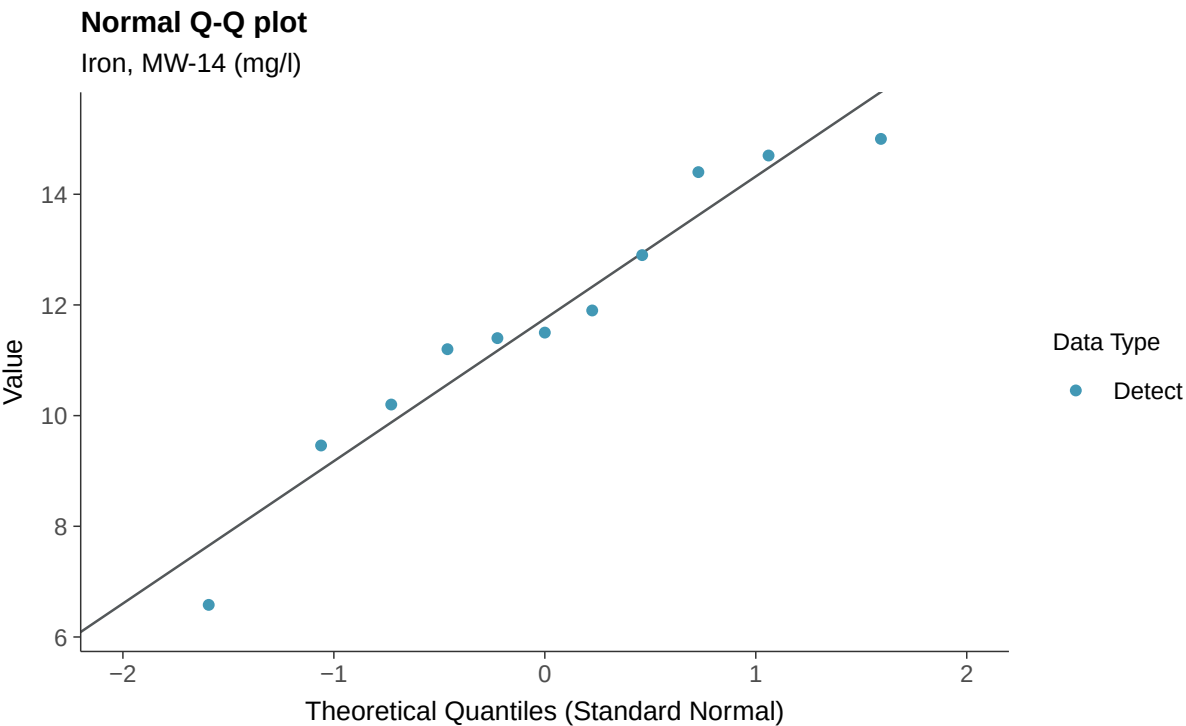


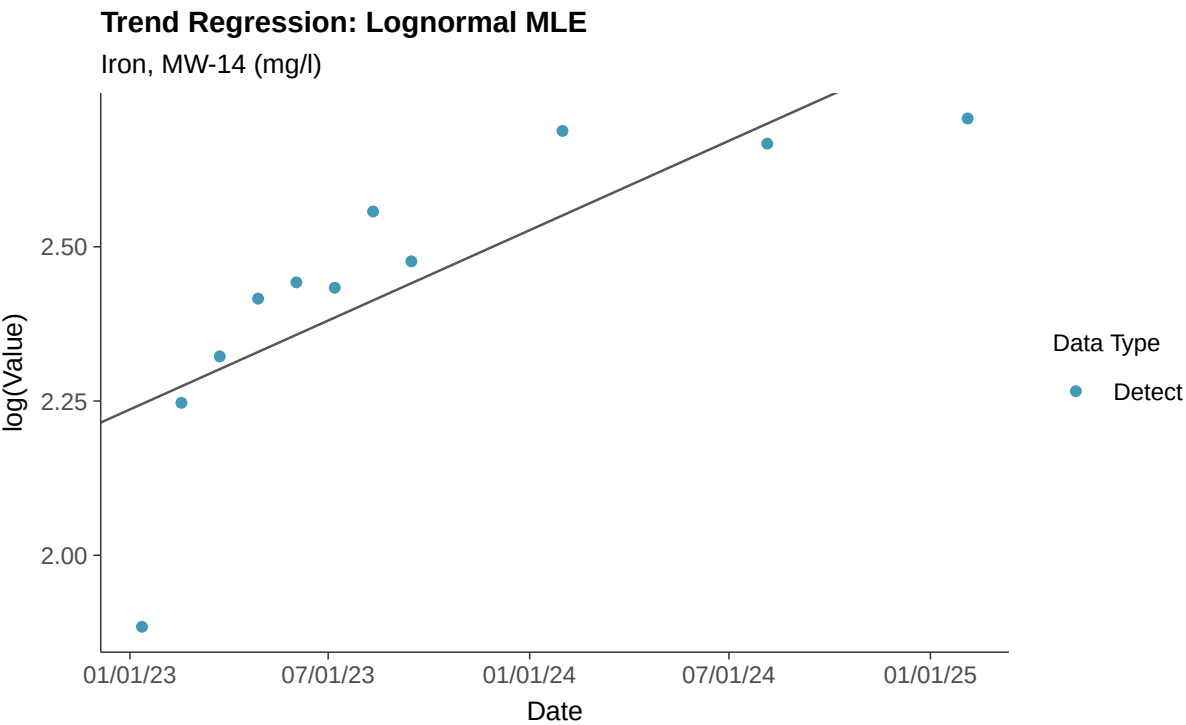
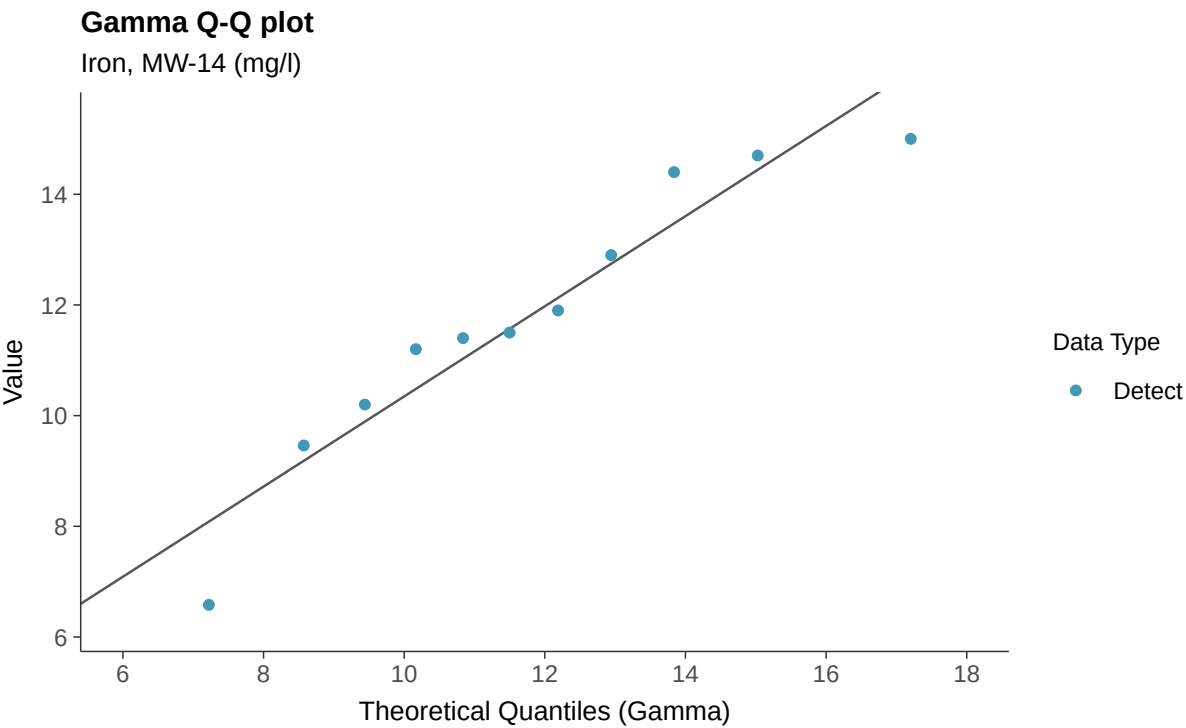
Part 115: Iron, MW-14

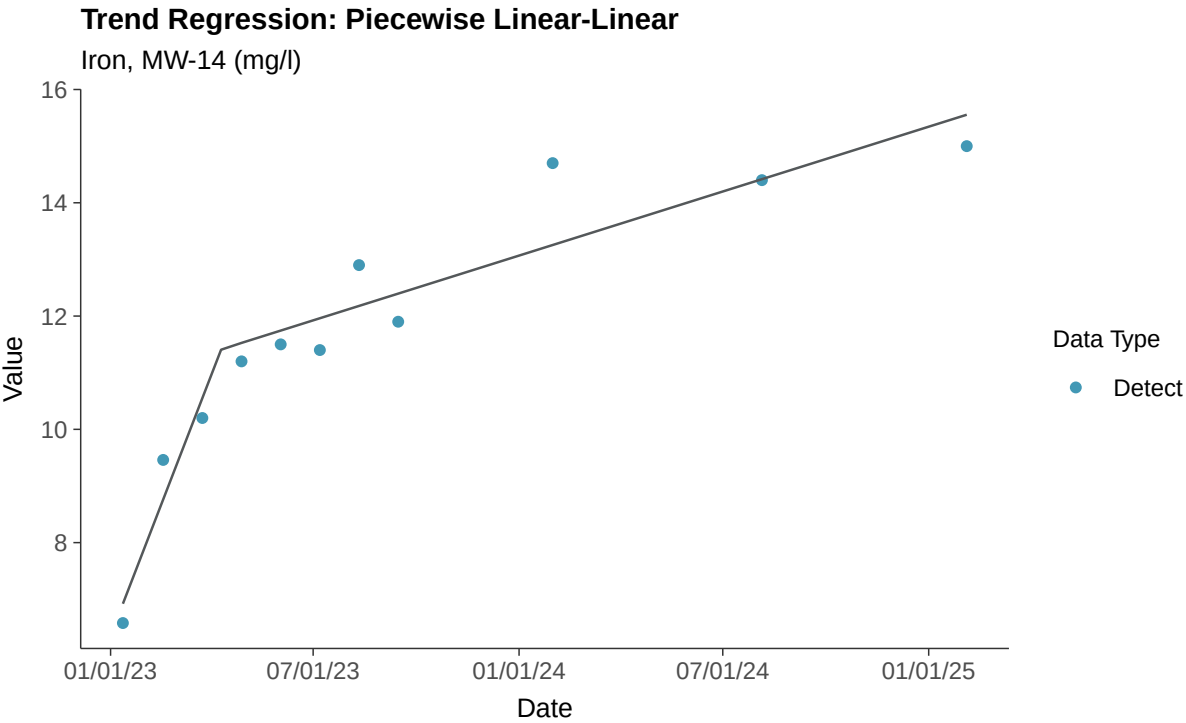
ID: 21_5_114







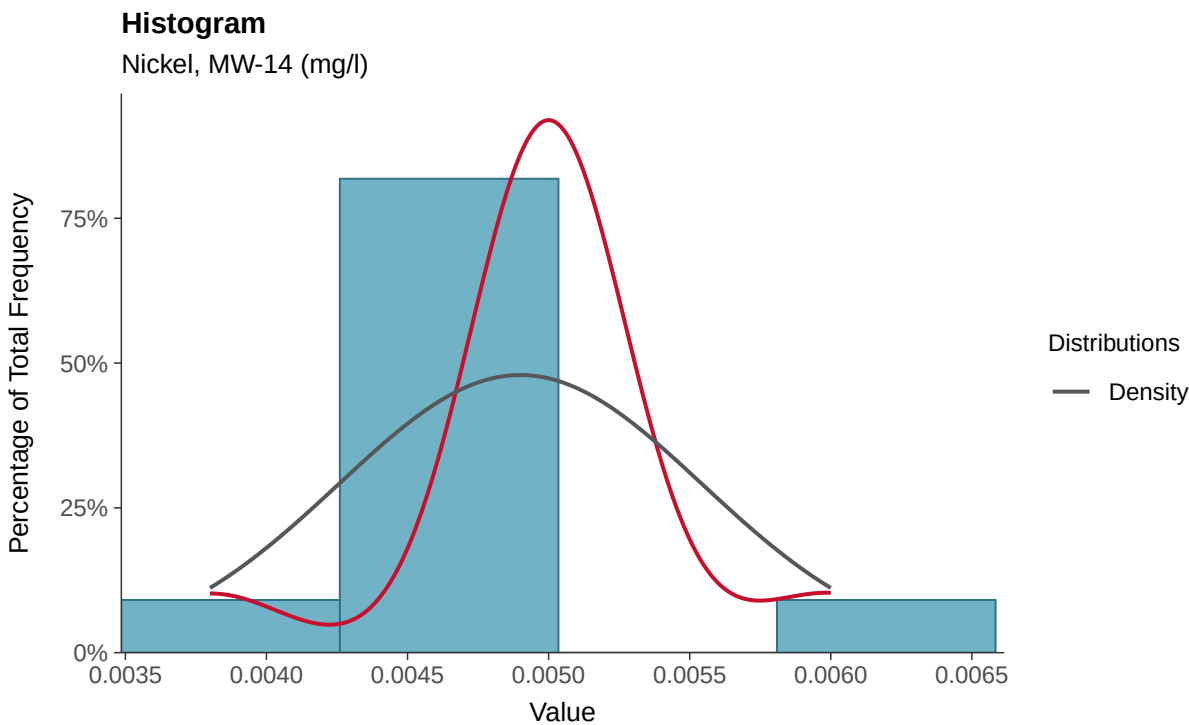
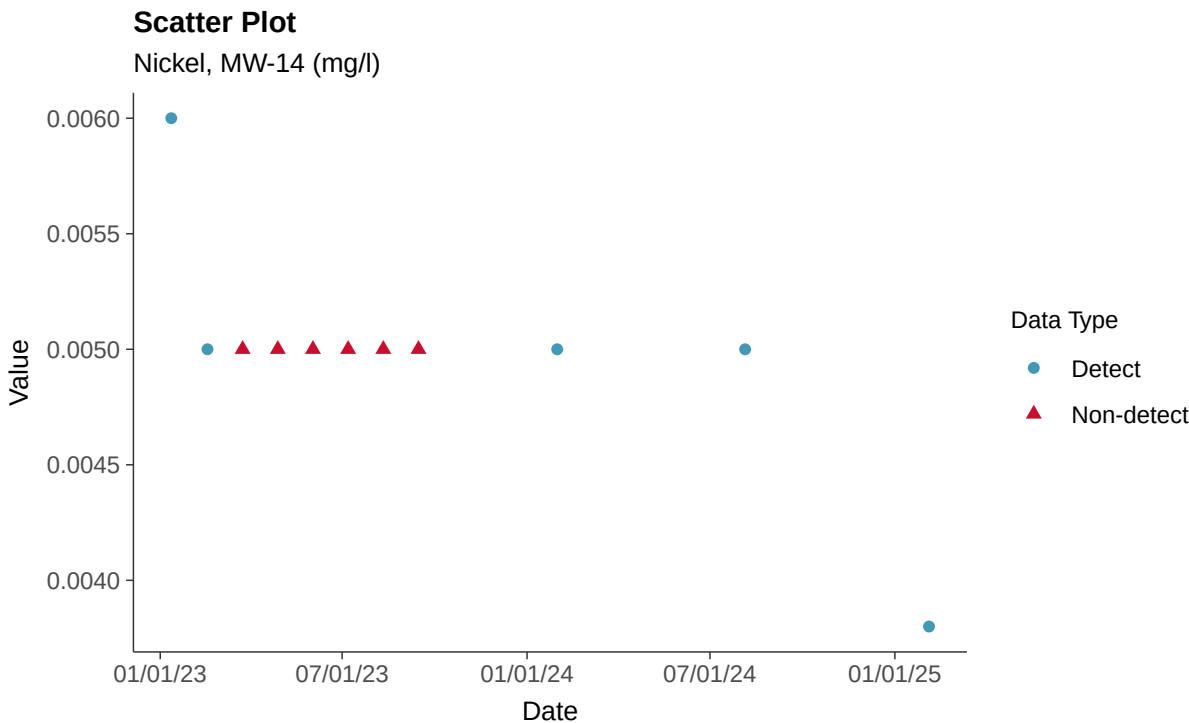


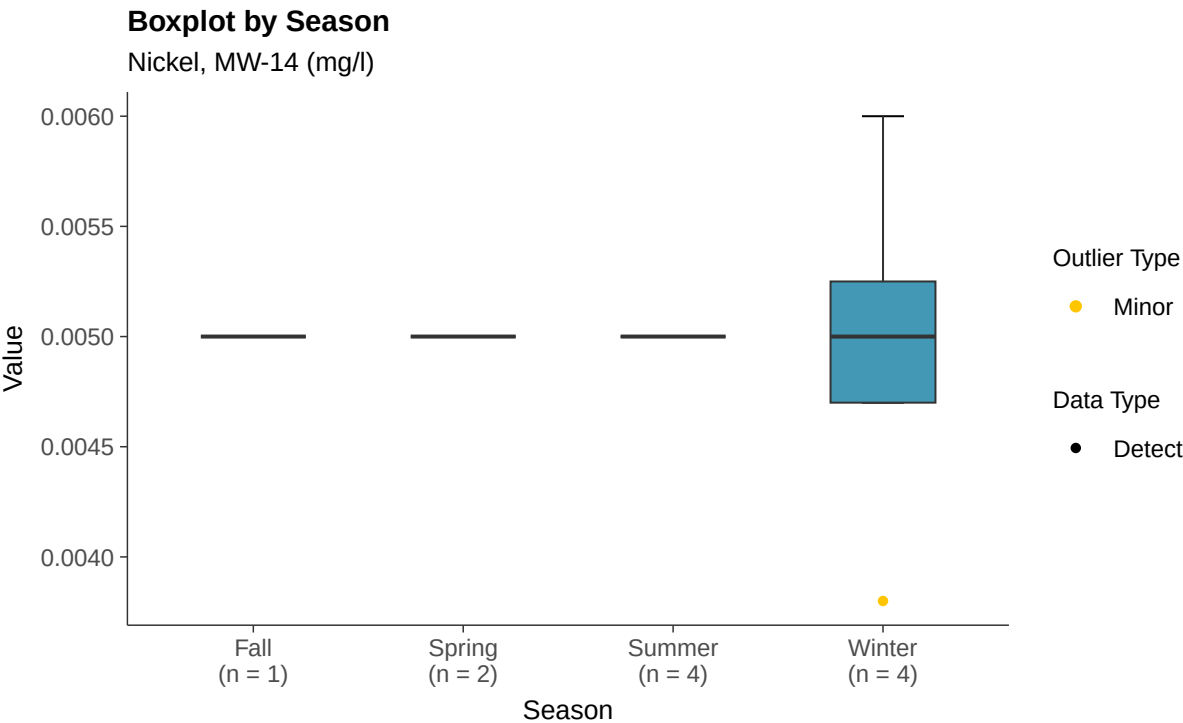
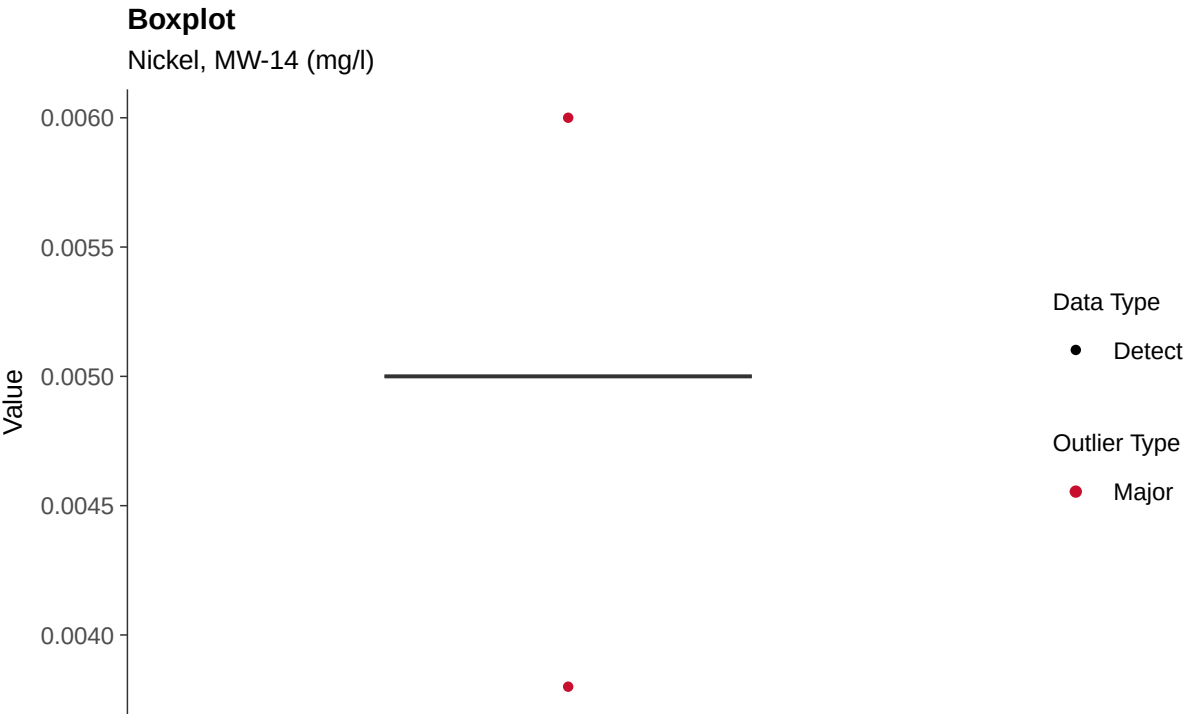


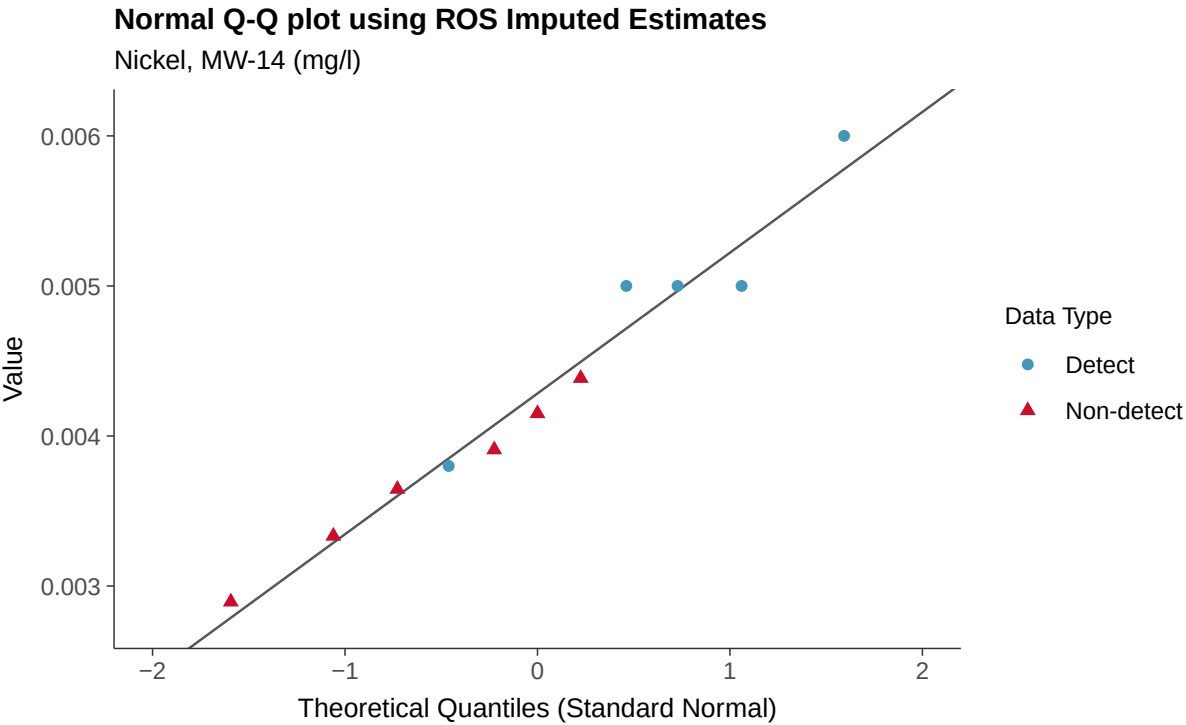


Part 115: Nickel, MW-14

ID: 21_5_119



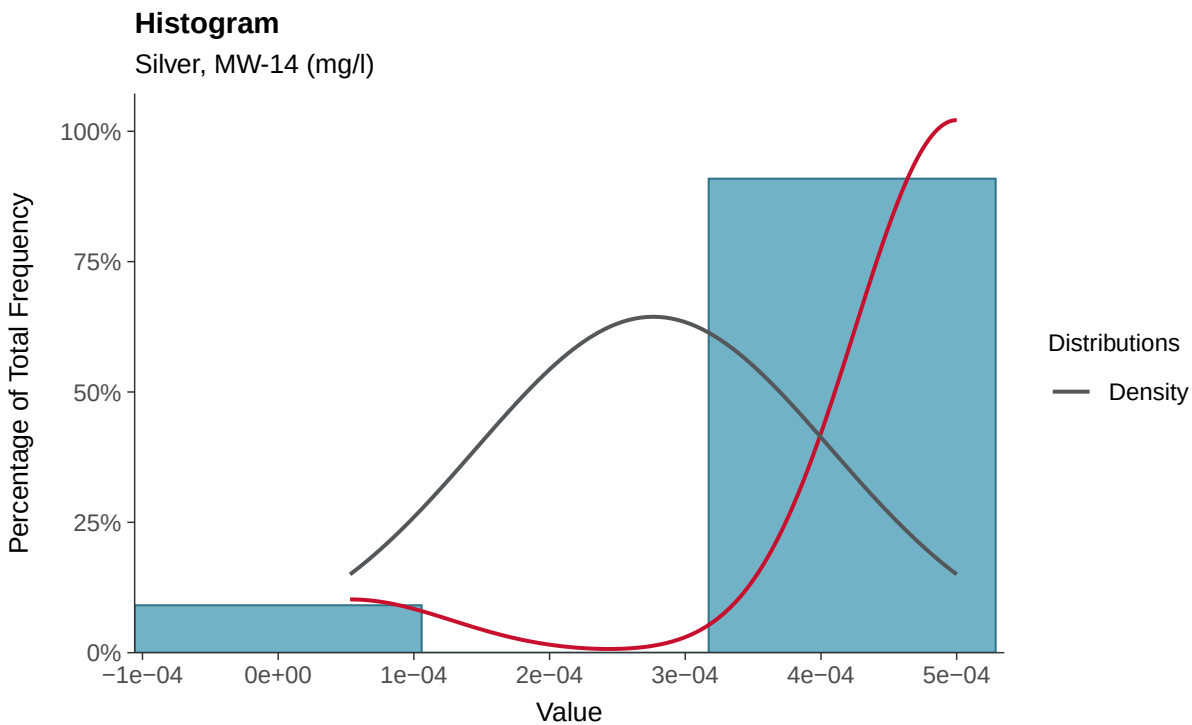
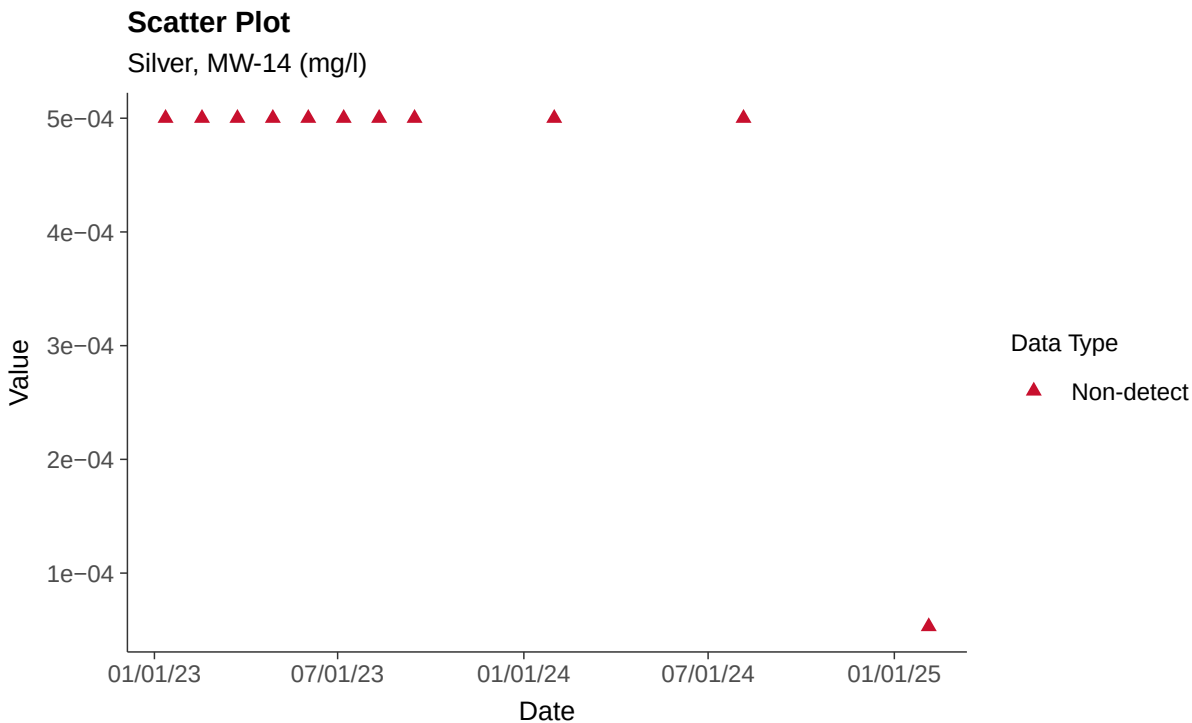


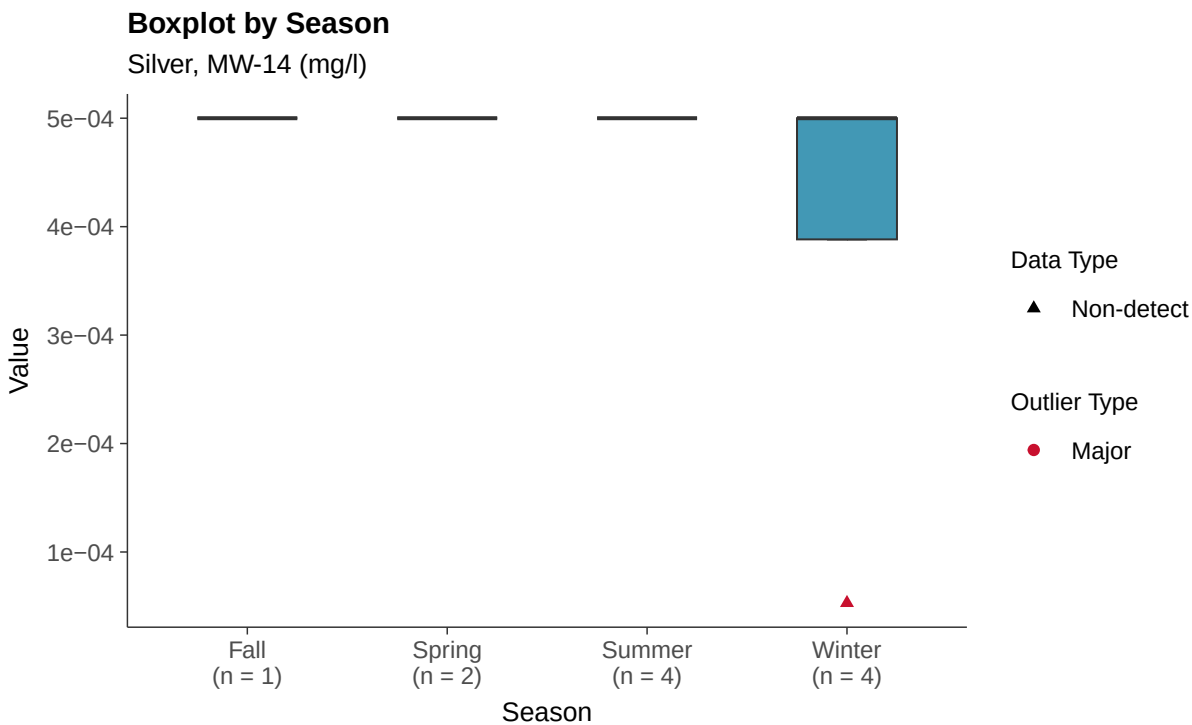
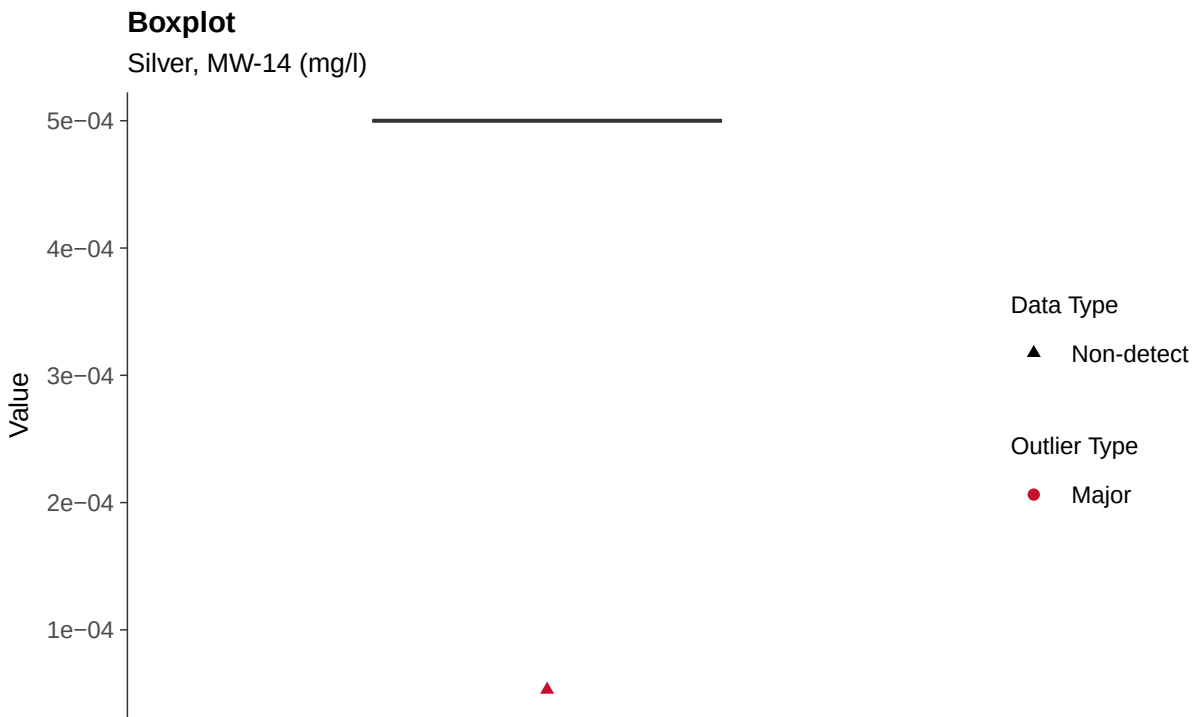




Part 115: Silver, MW-14

ID: 21_5_123

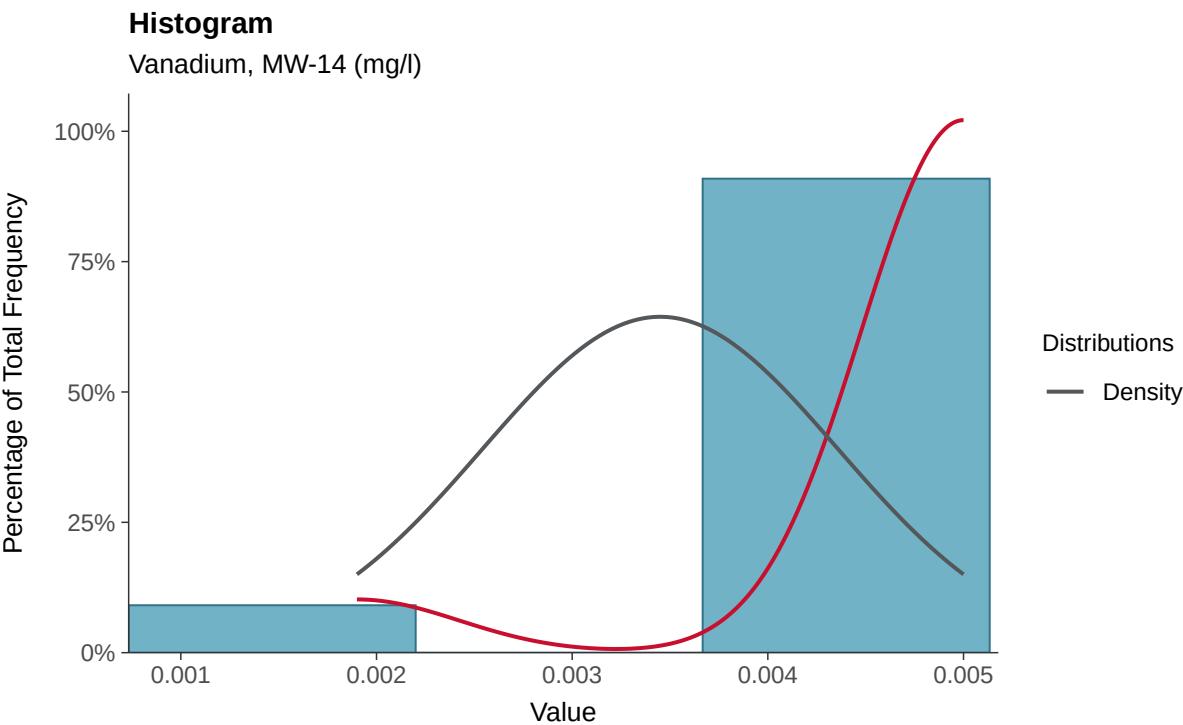
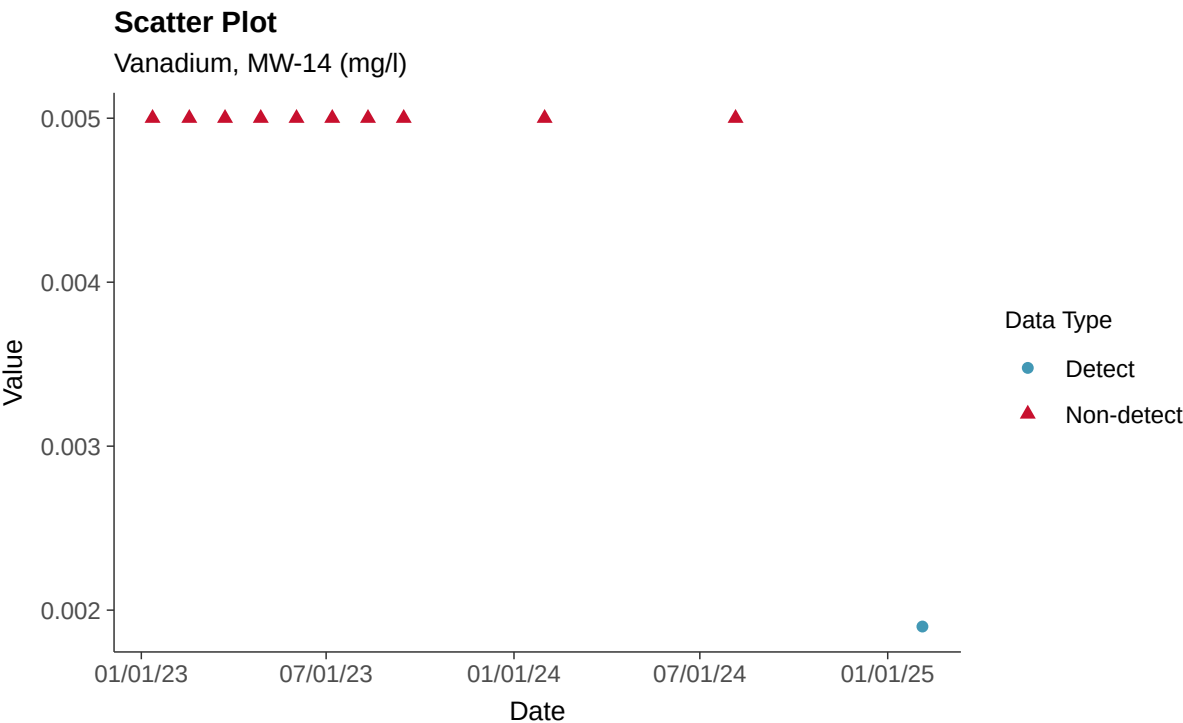


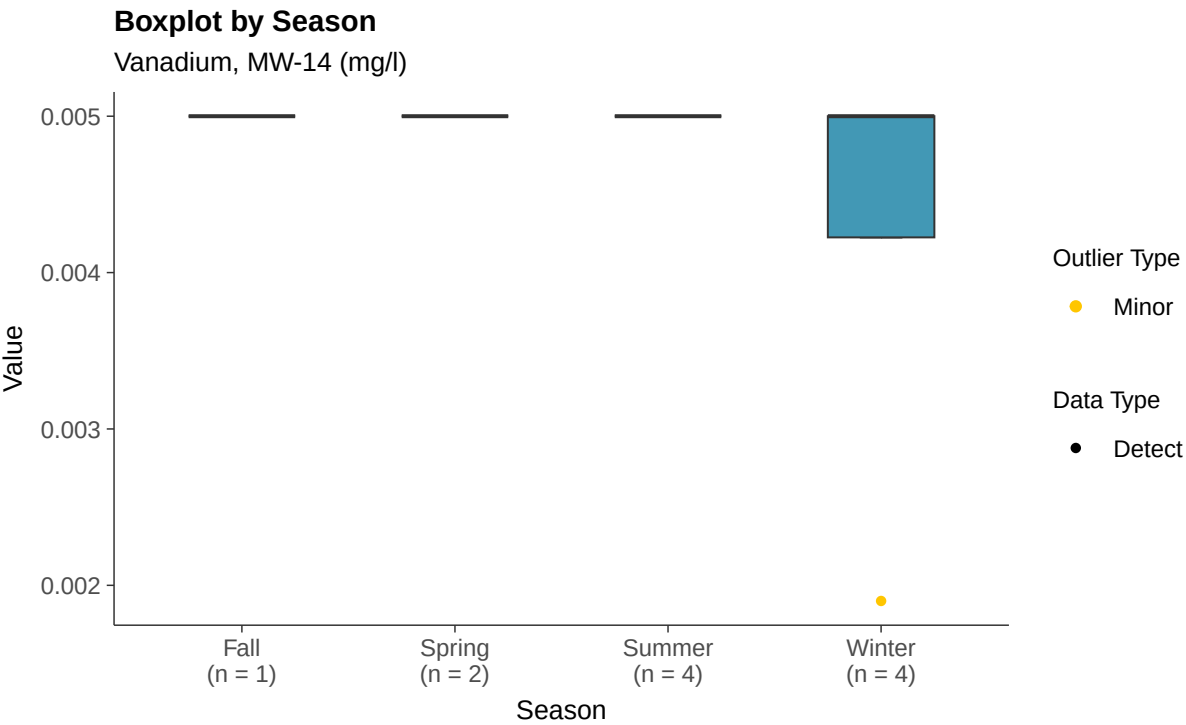
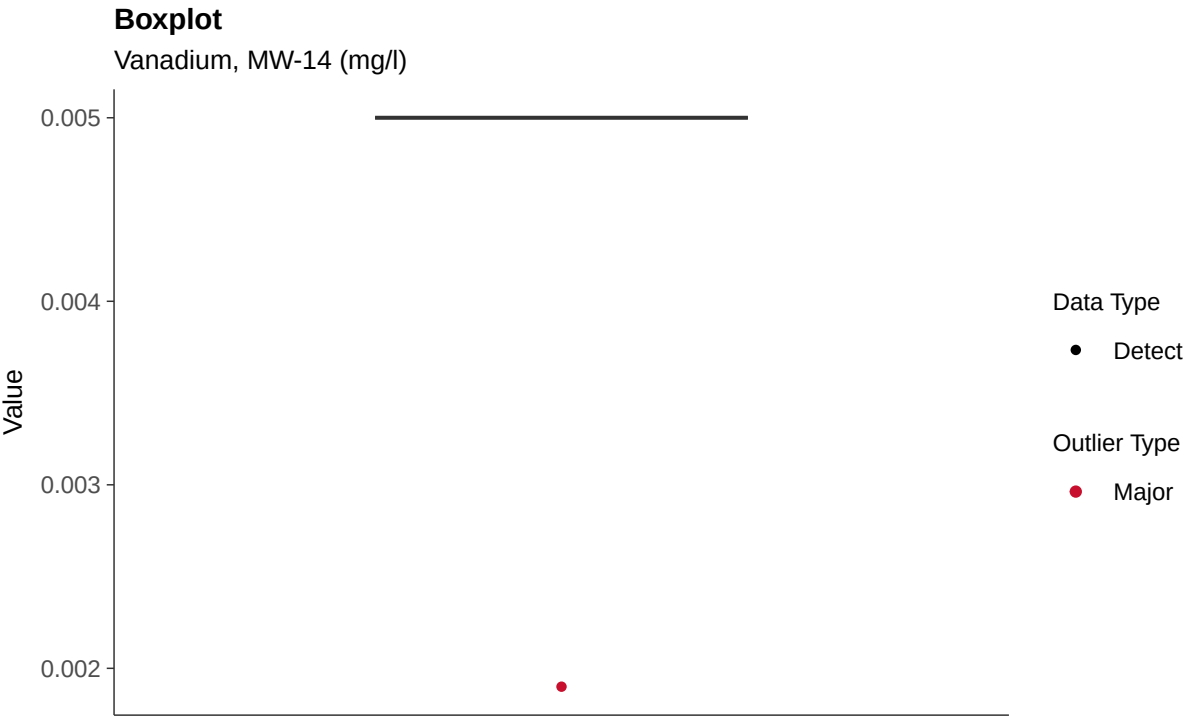




Part 115: Vanadium, MW-14

ID: 21_5_128

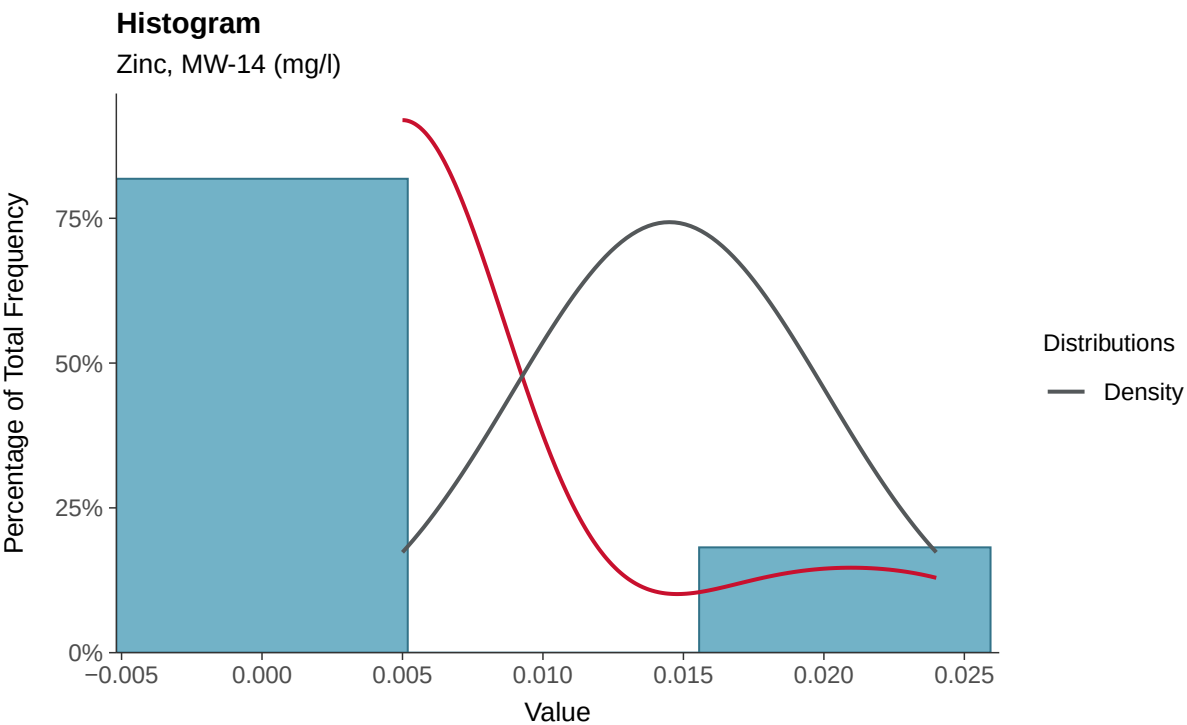
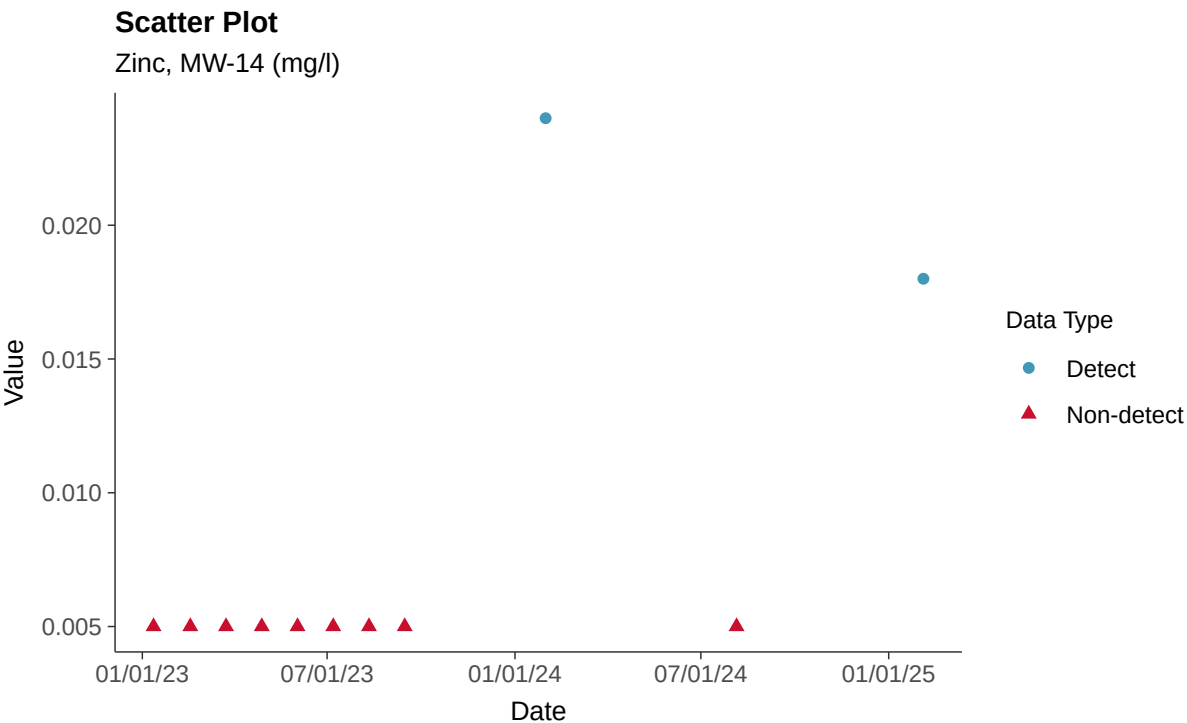


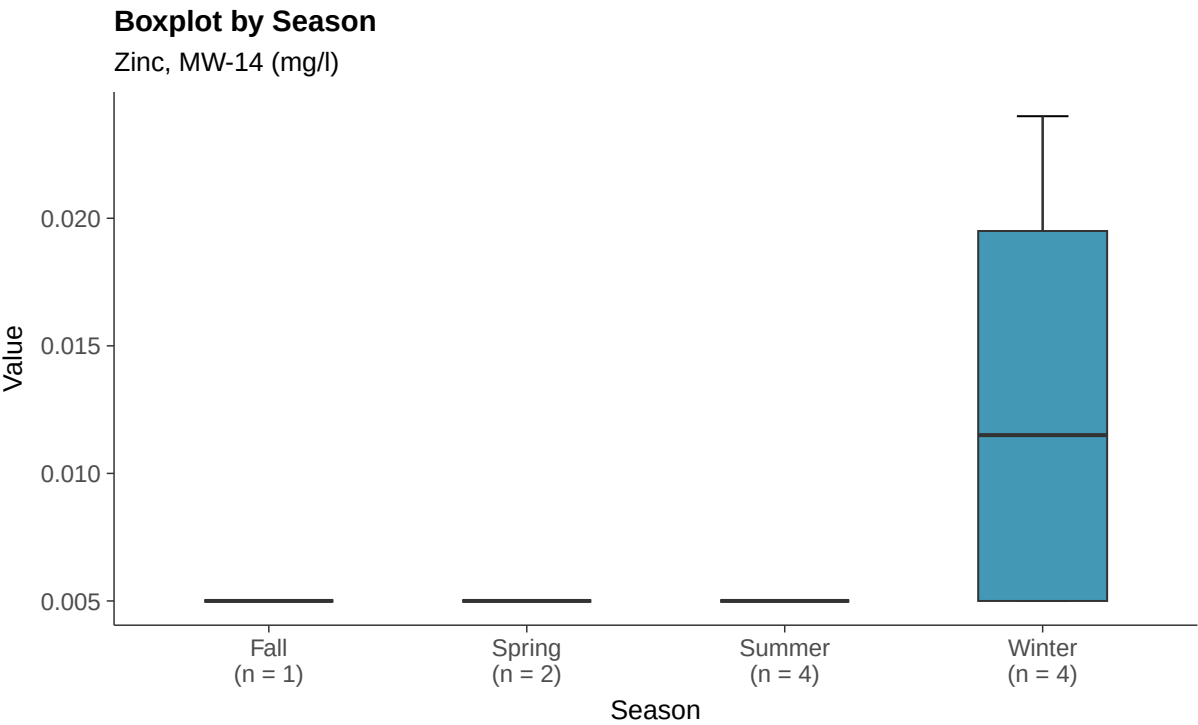
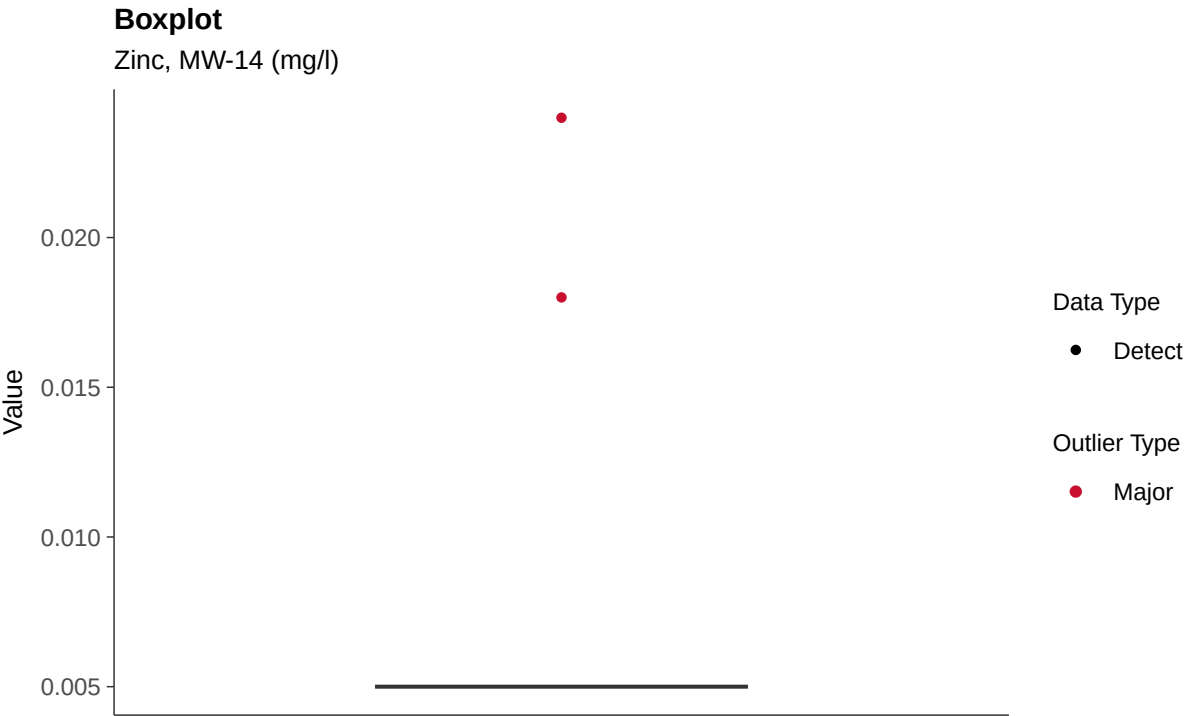


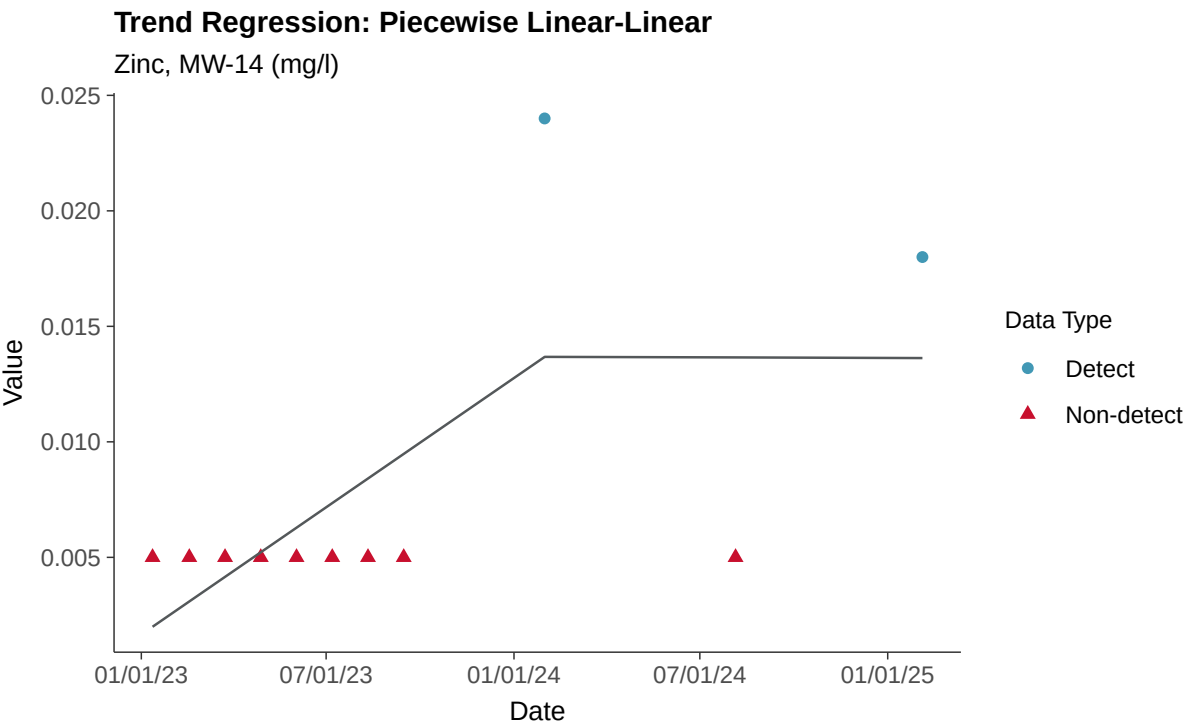
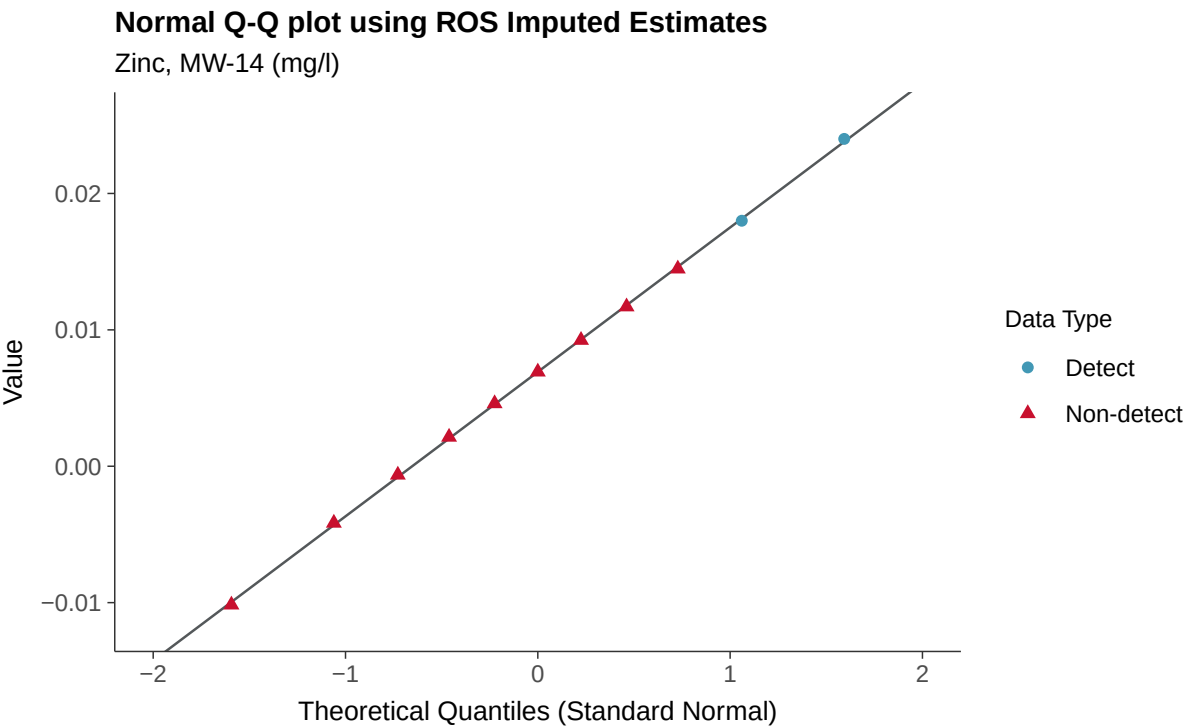


Part 115: Zinc, MW-14

ID: 21_5_129



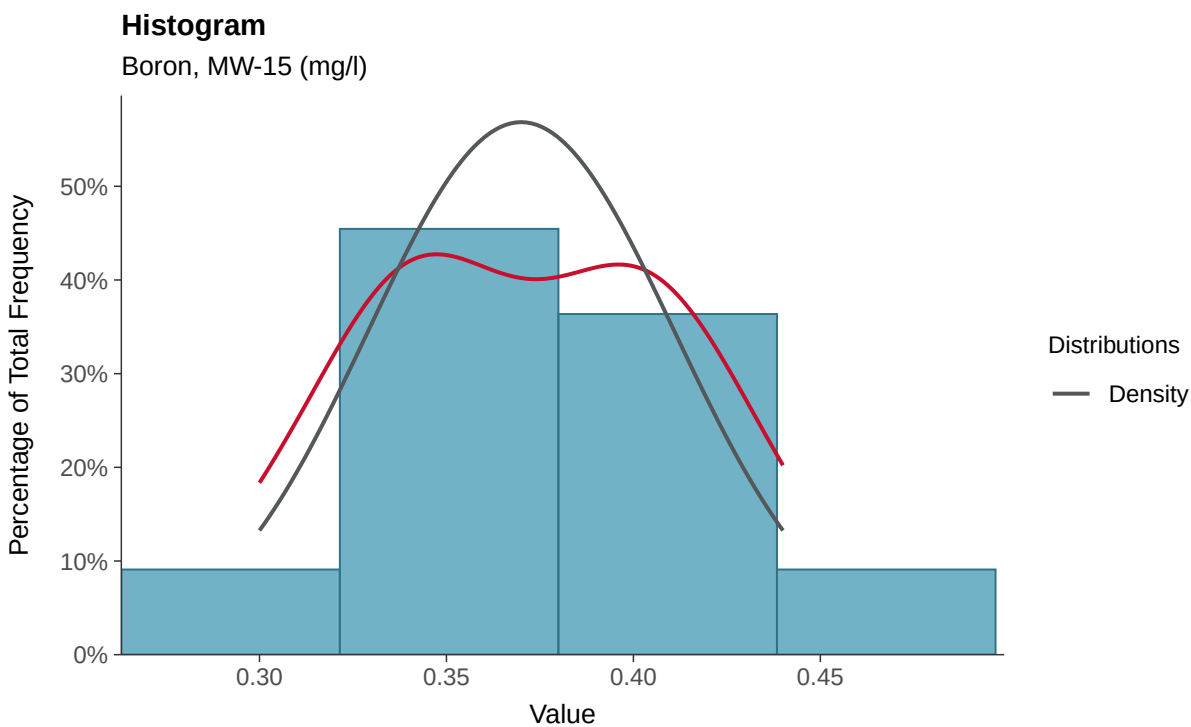
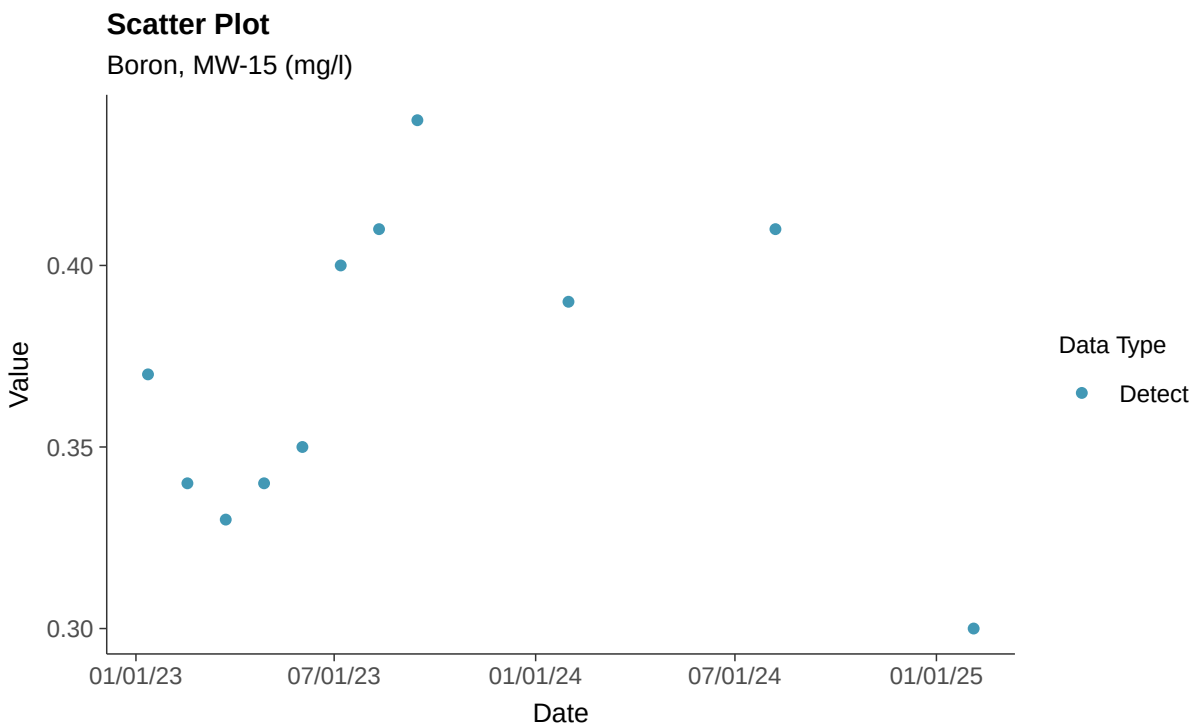


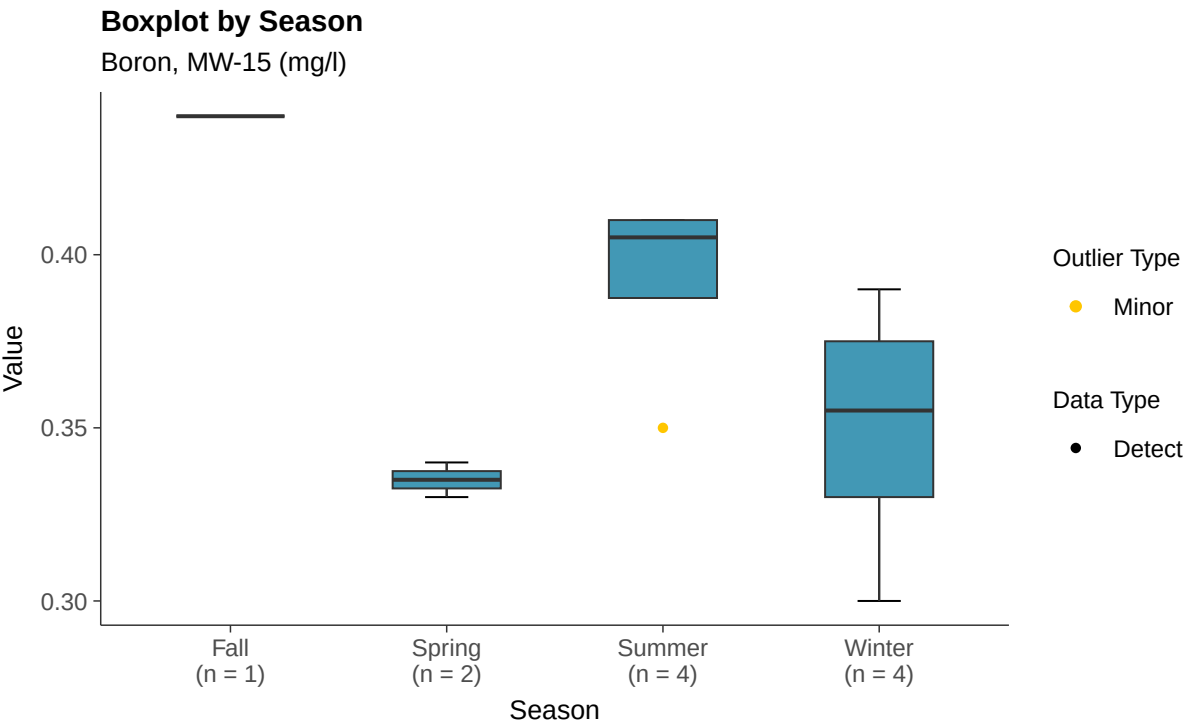
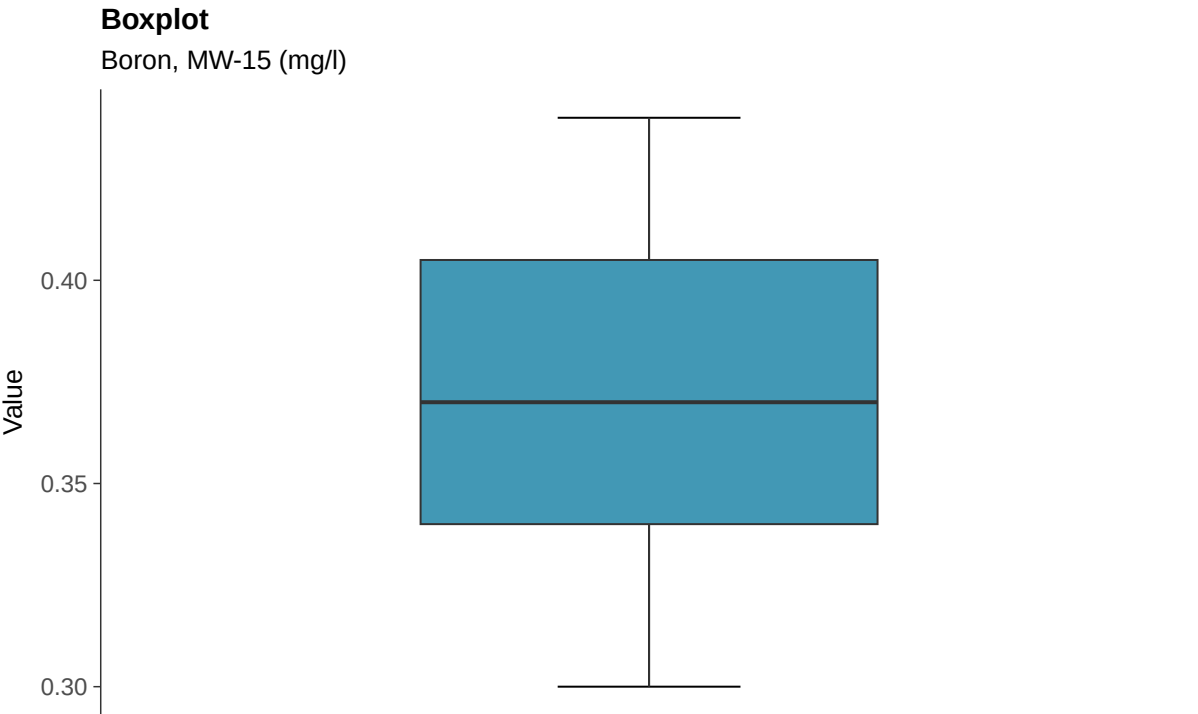


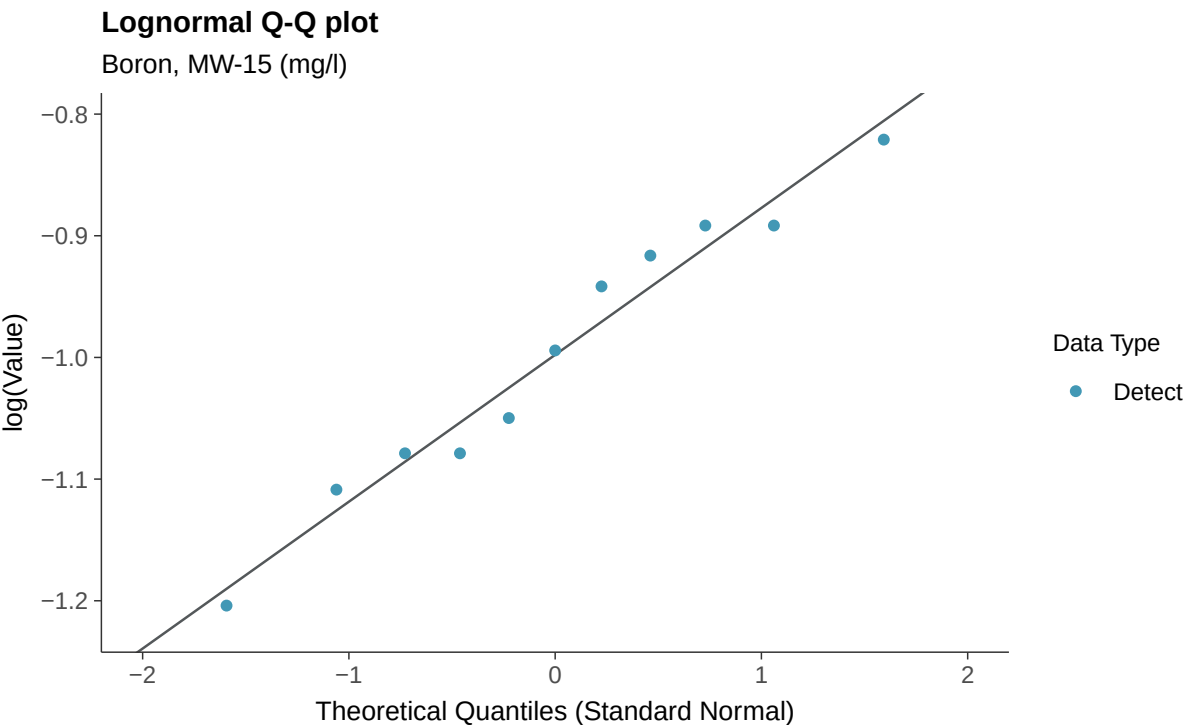
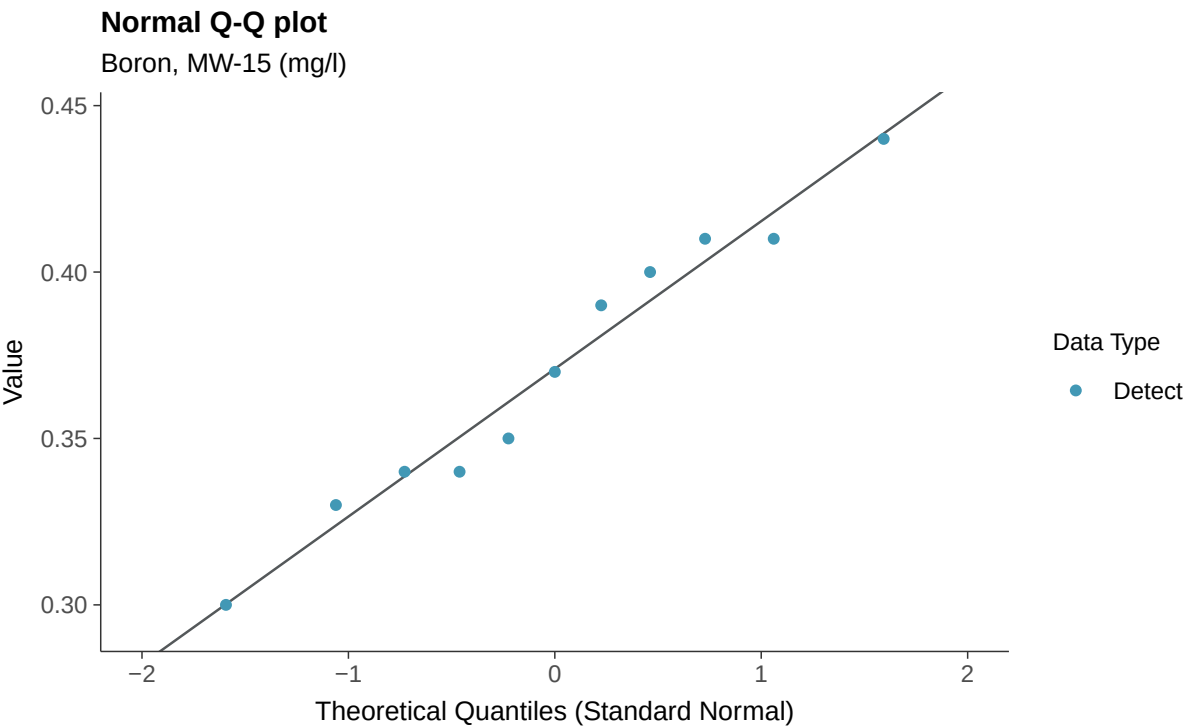


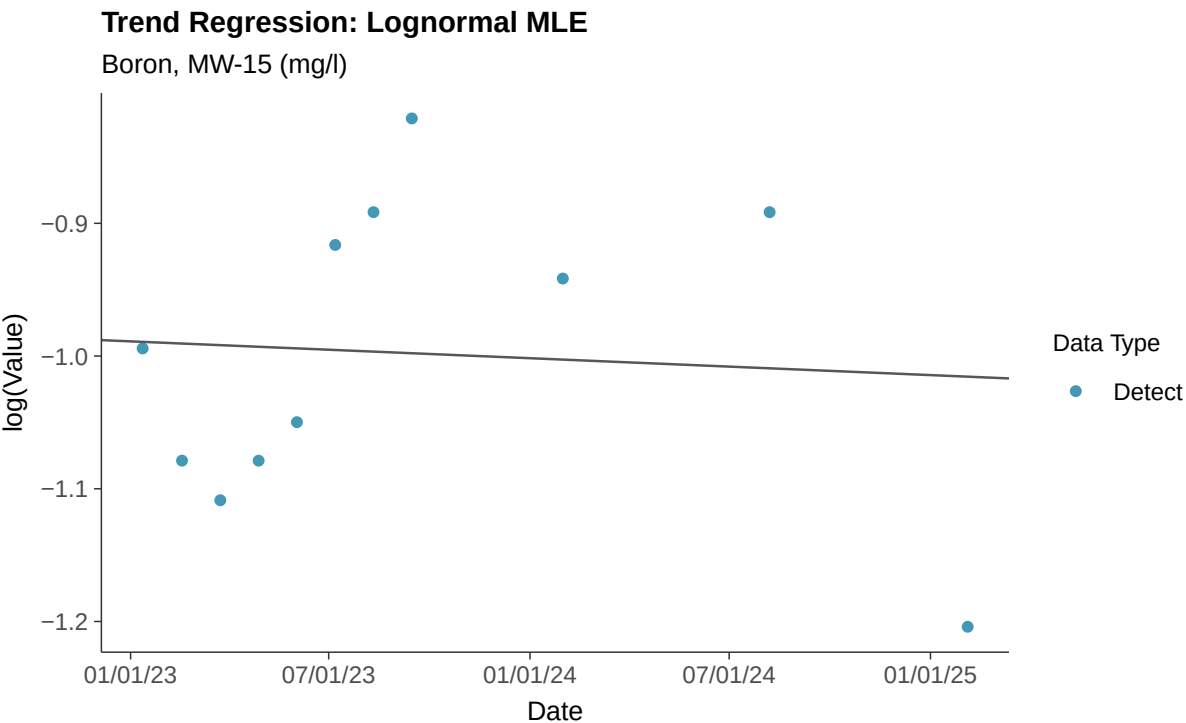
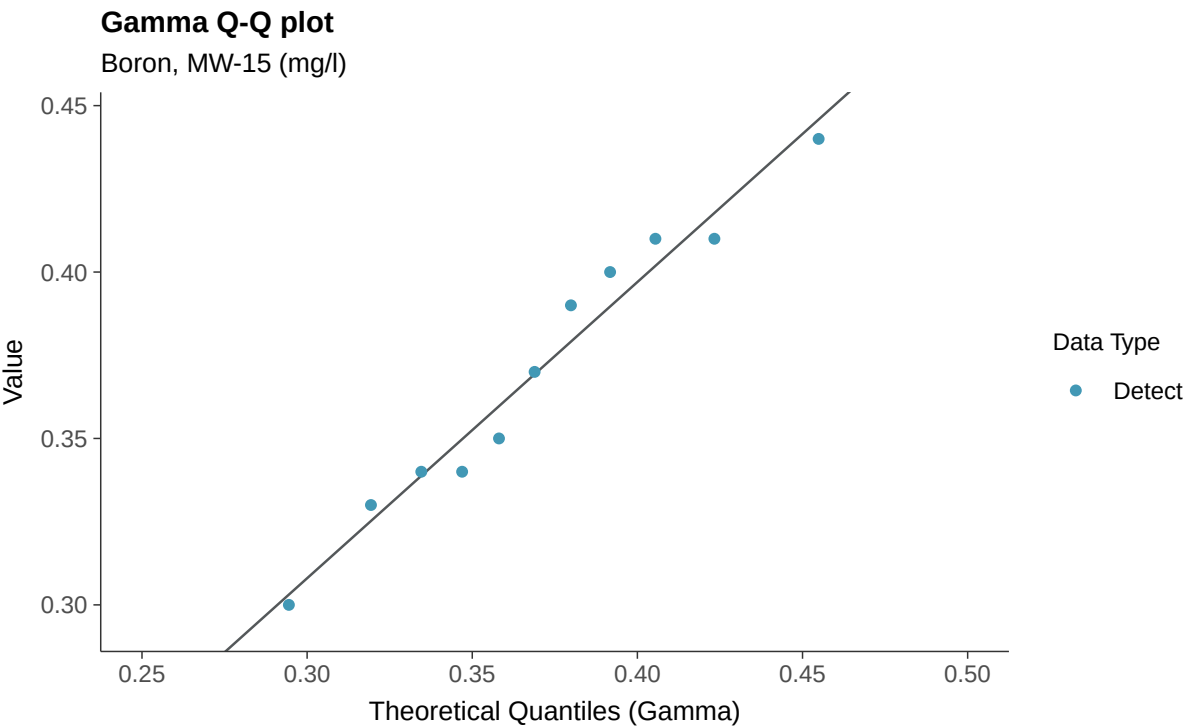
Appendix III: Boron, MW-15

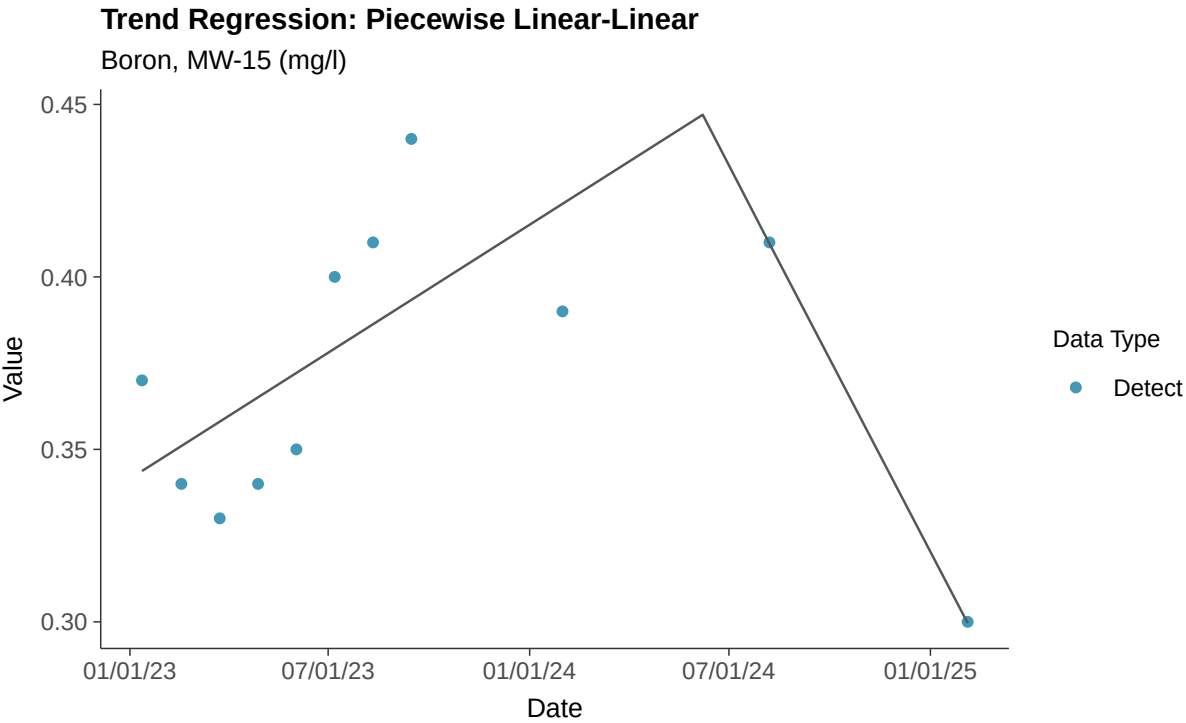
ID: 22_2_105







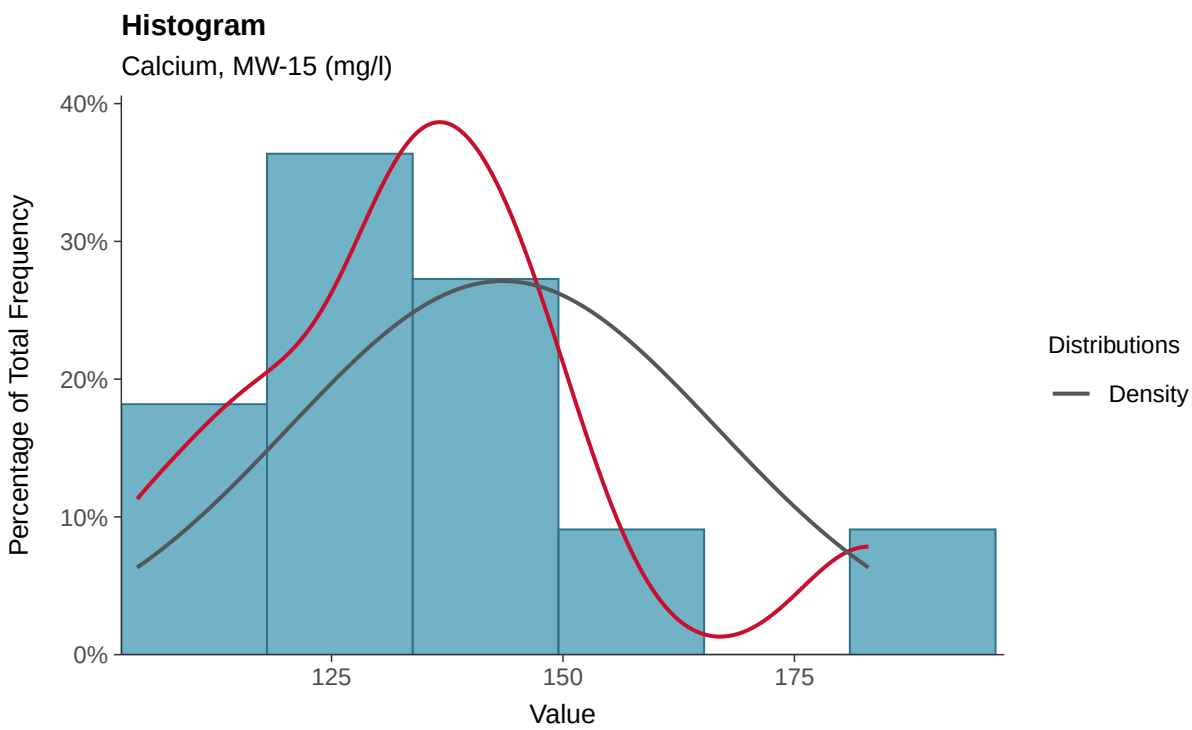
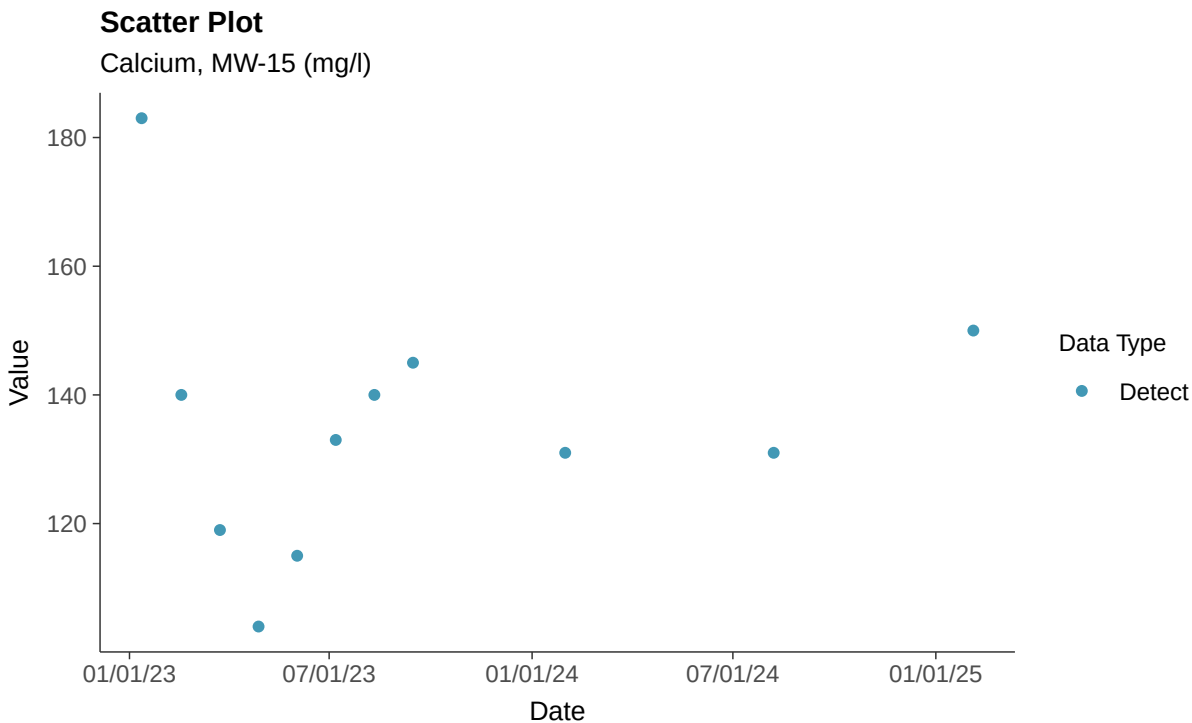


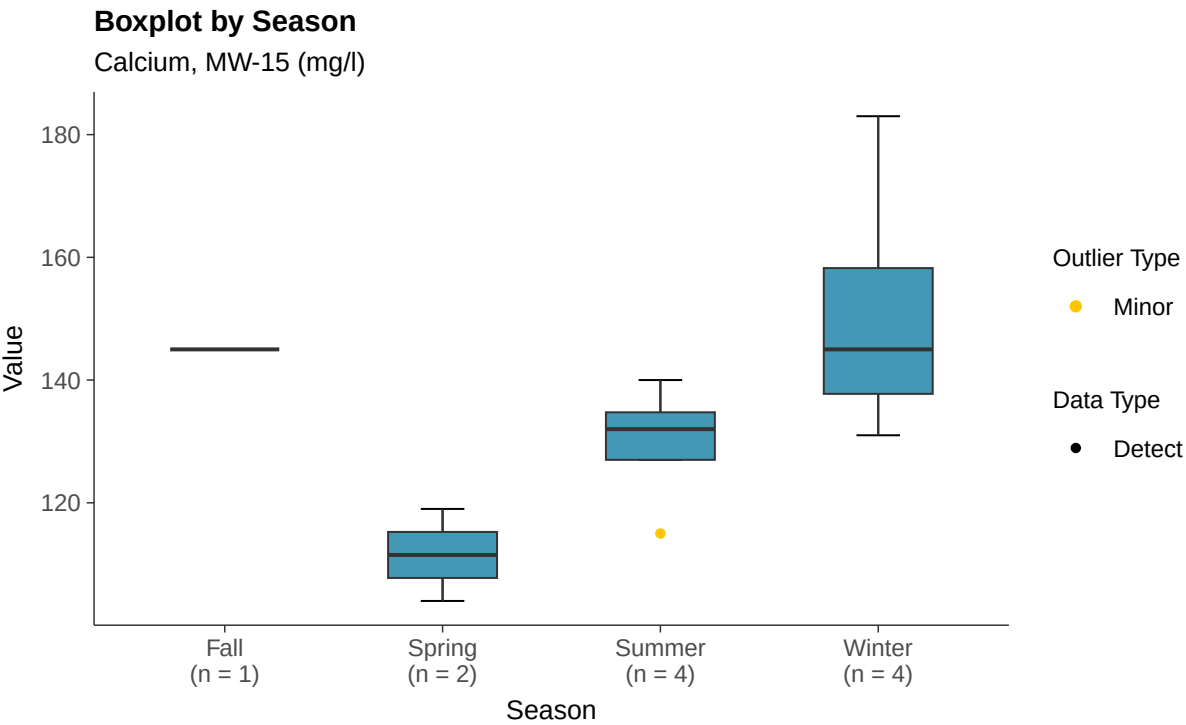
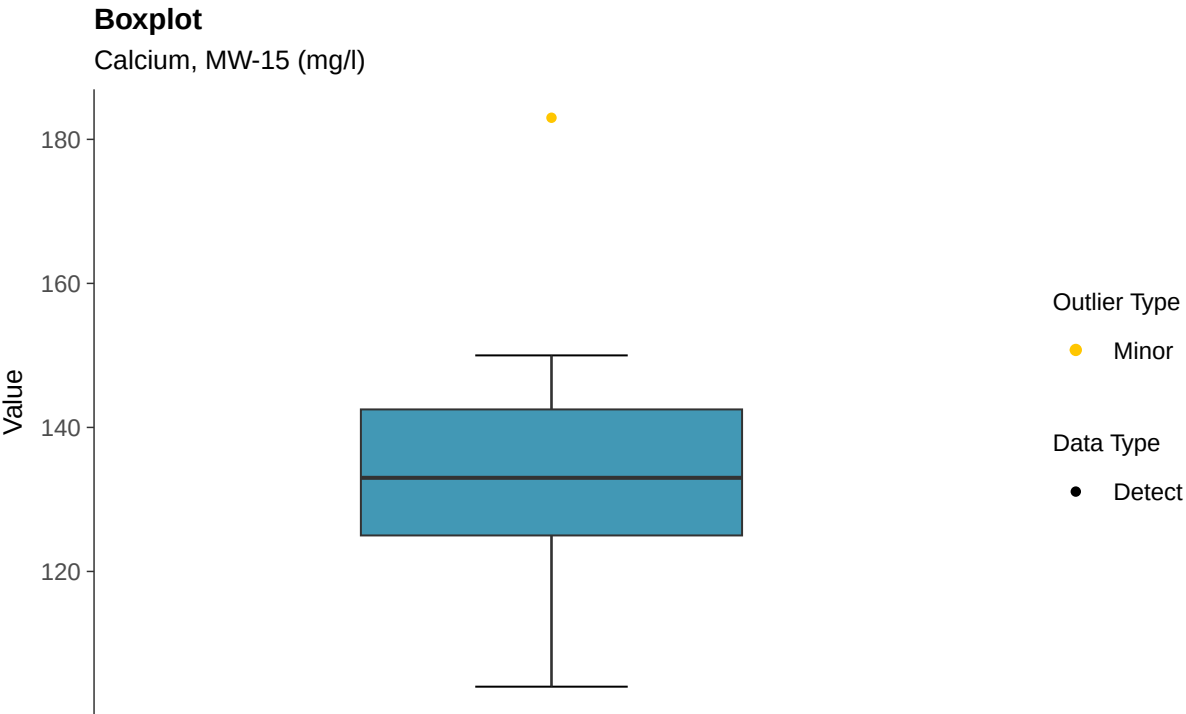


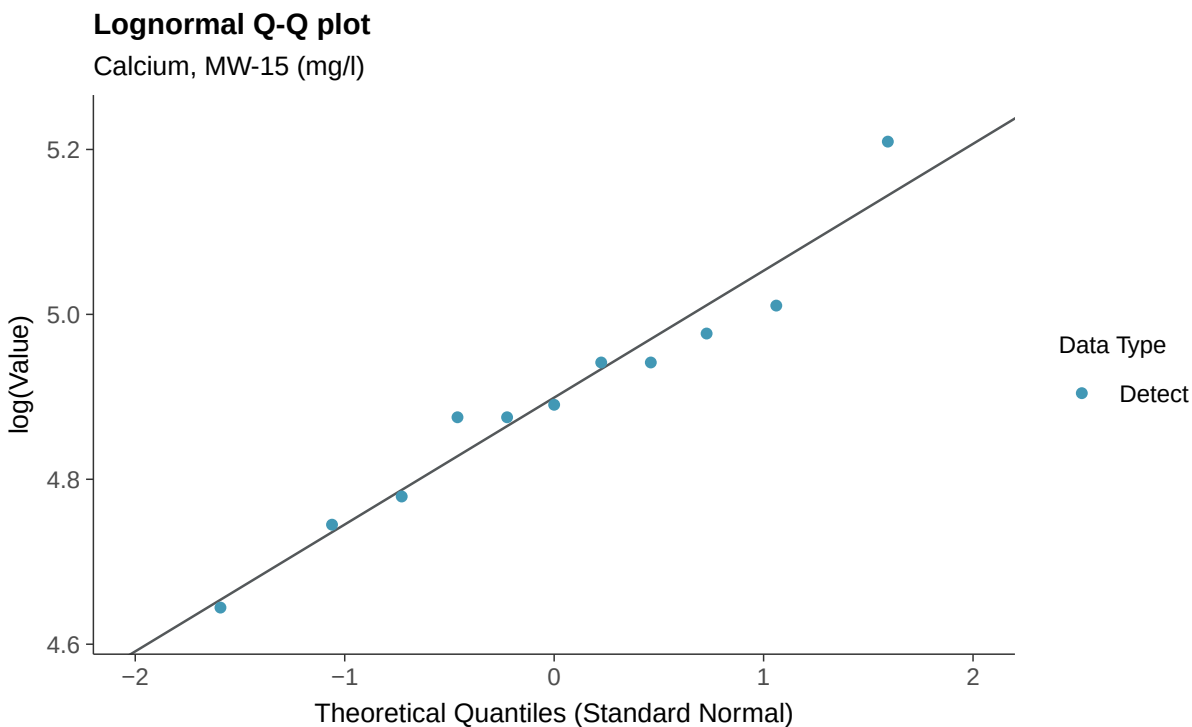
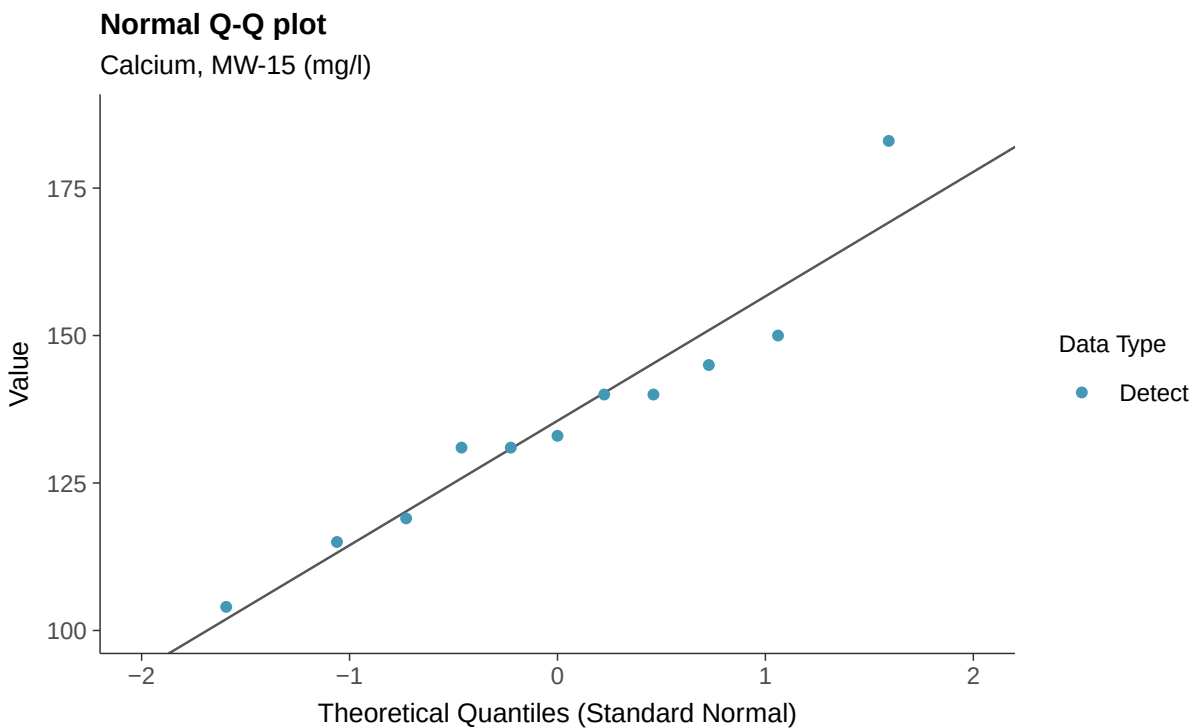


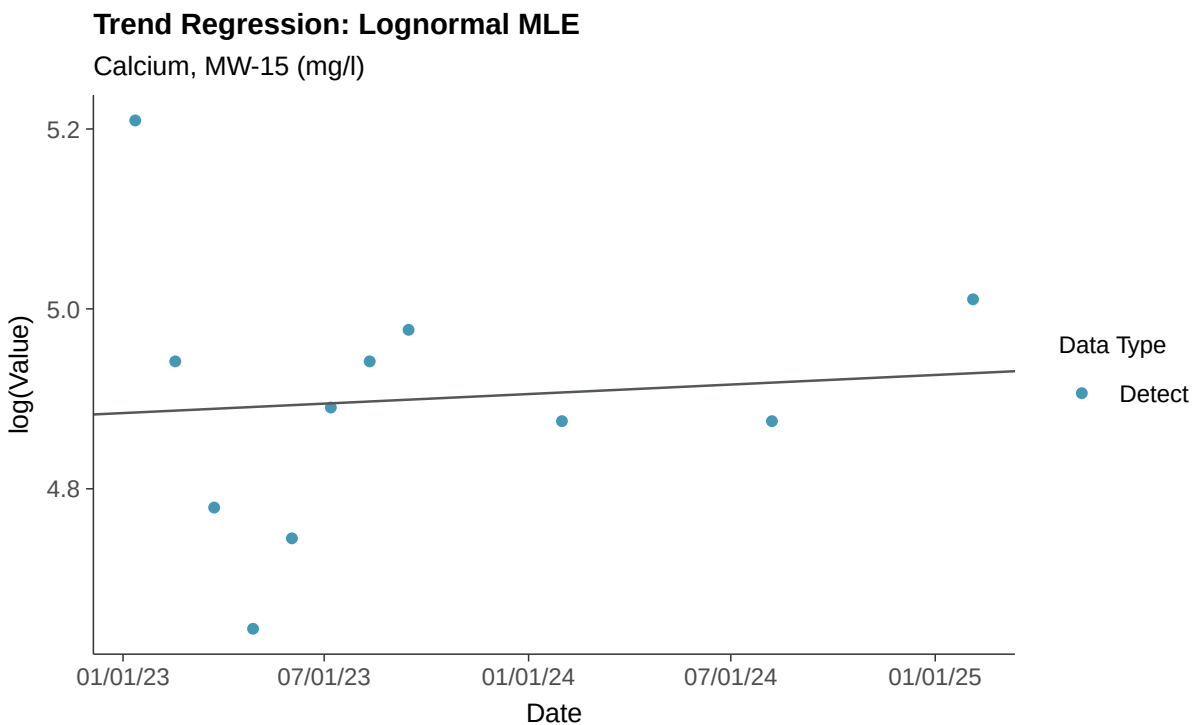
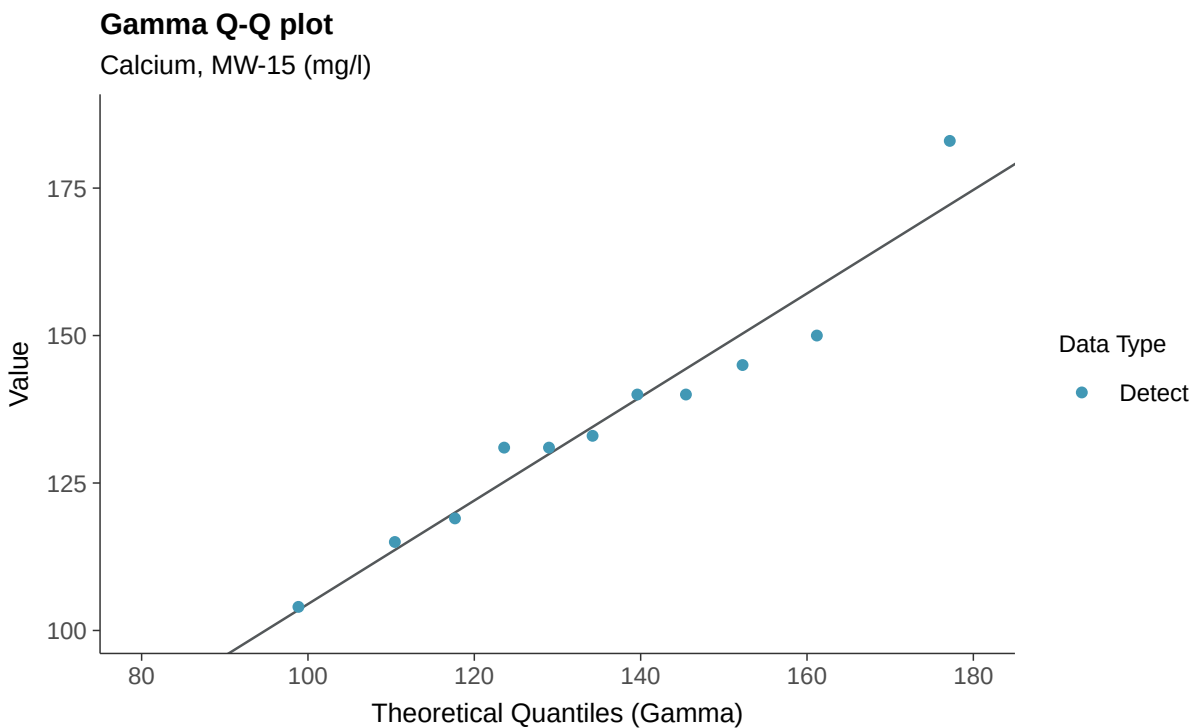
Appendix III: Calcium, MW-15

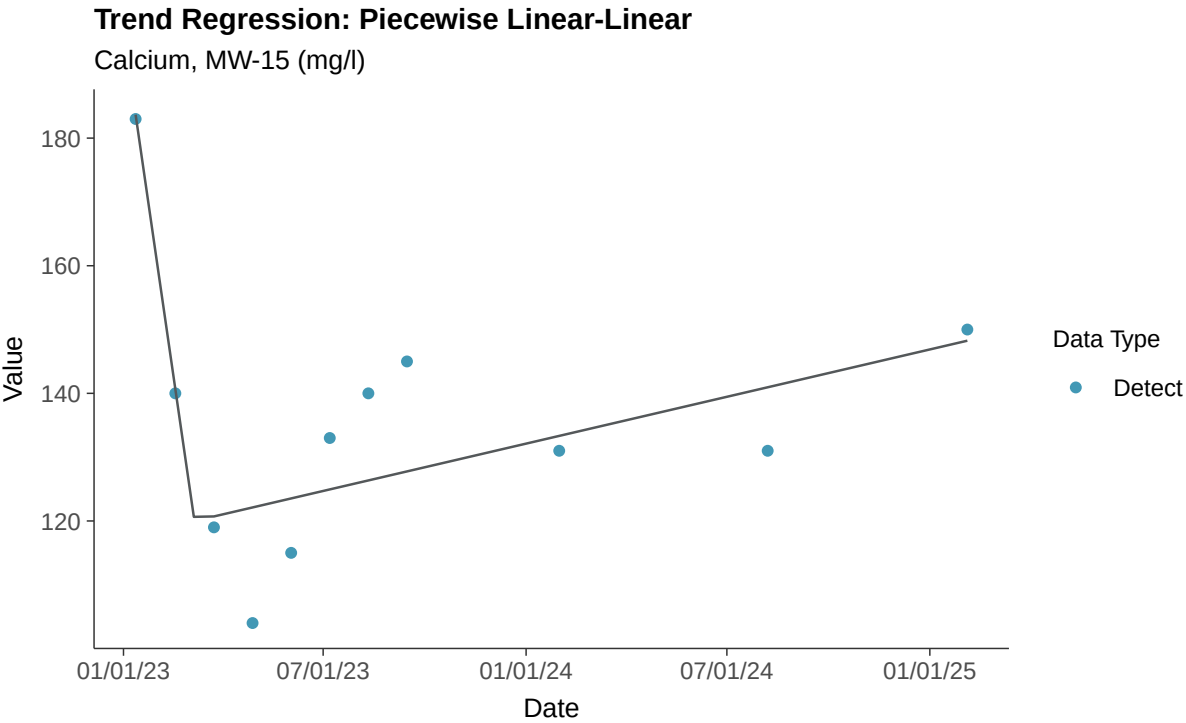
ID: 22_2_107







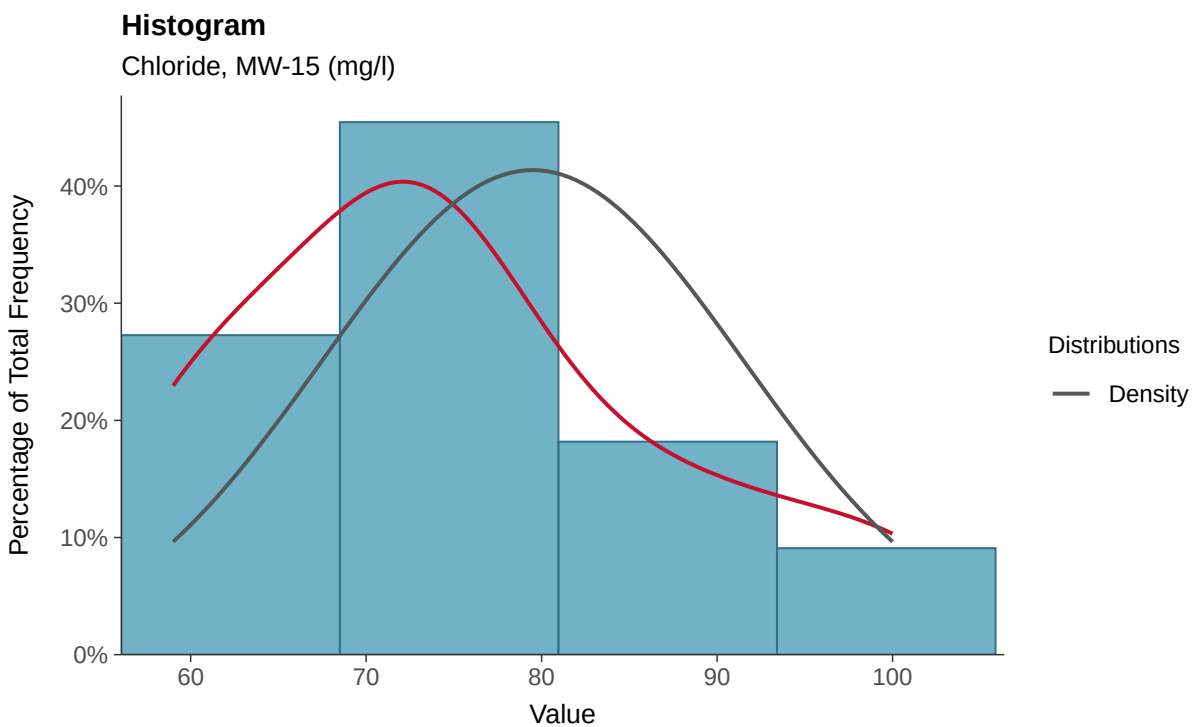
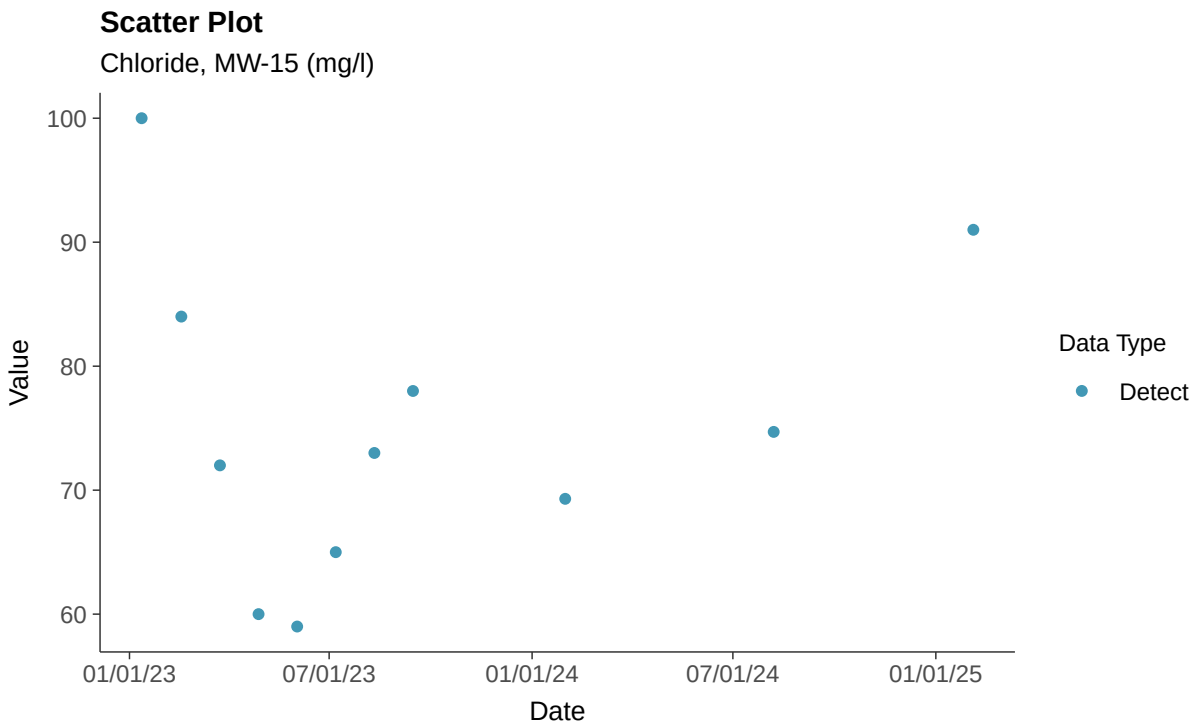


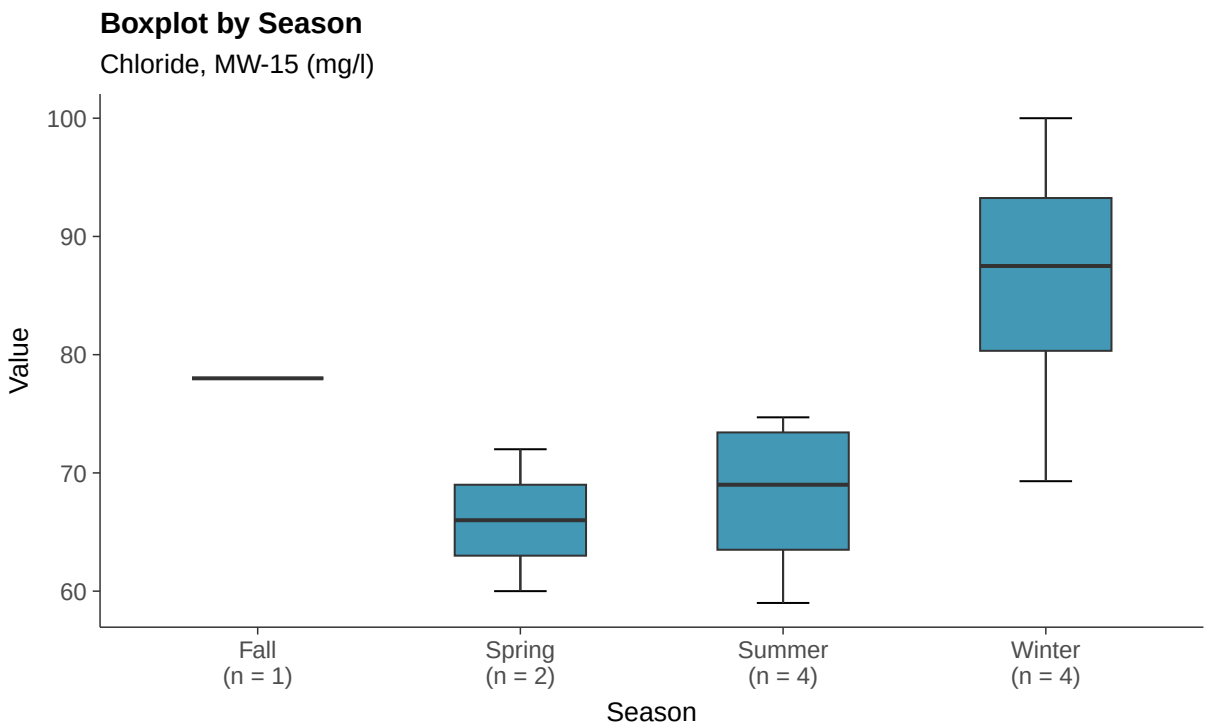
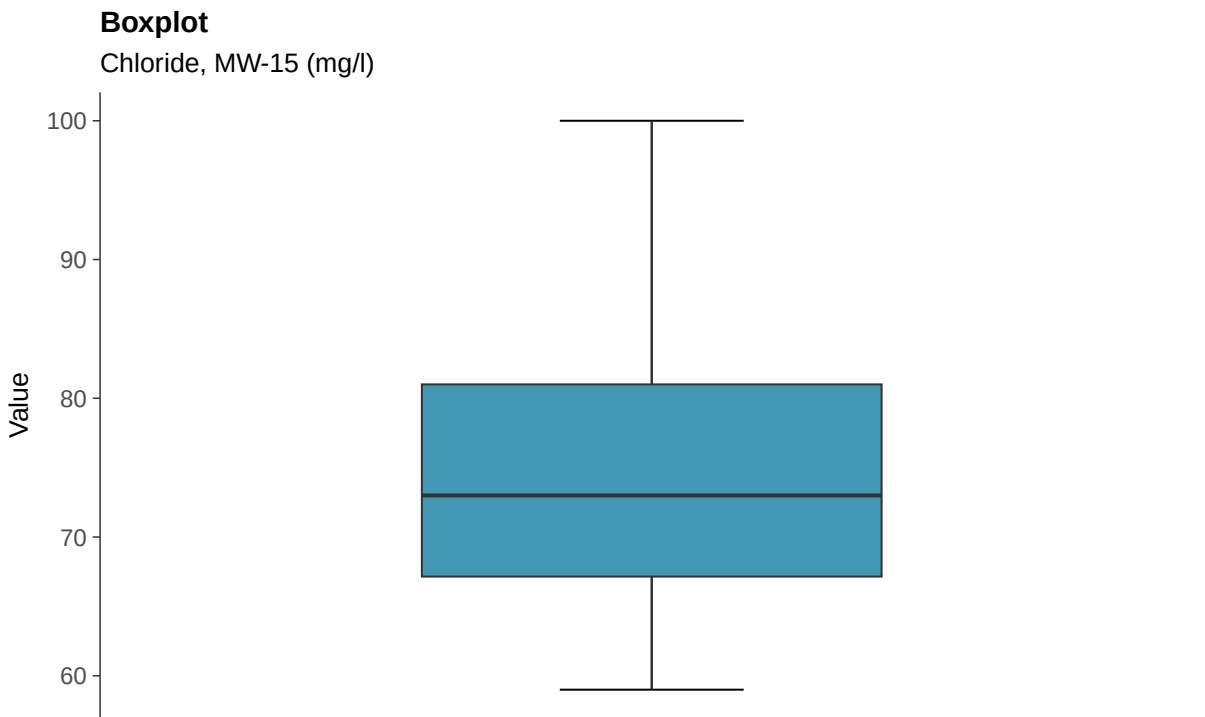


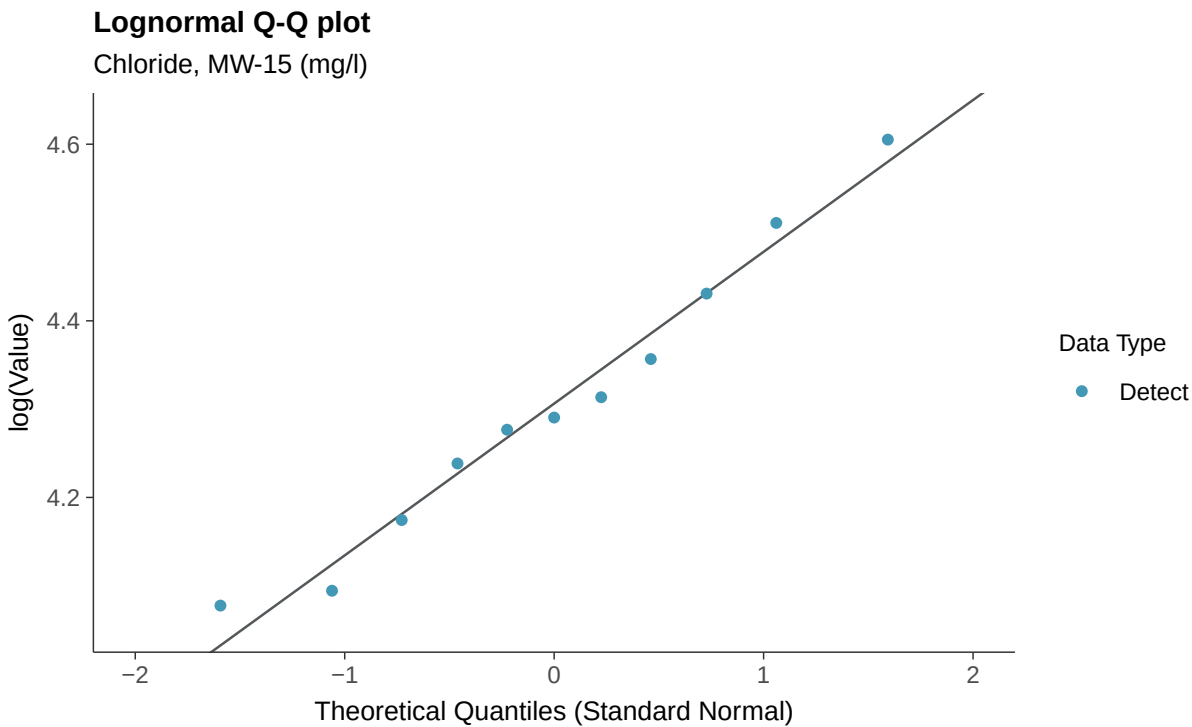
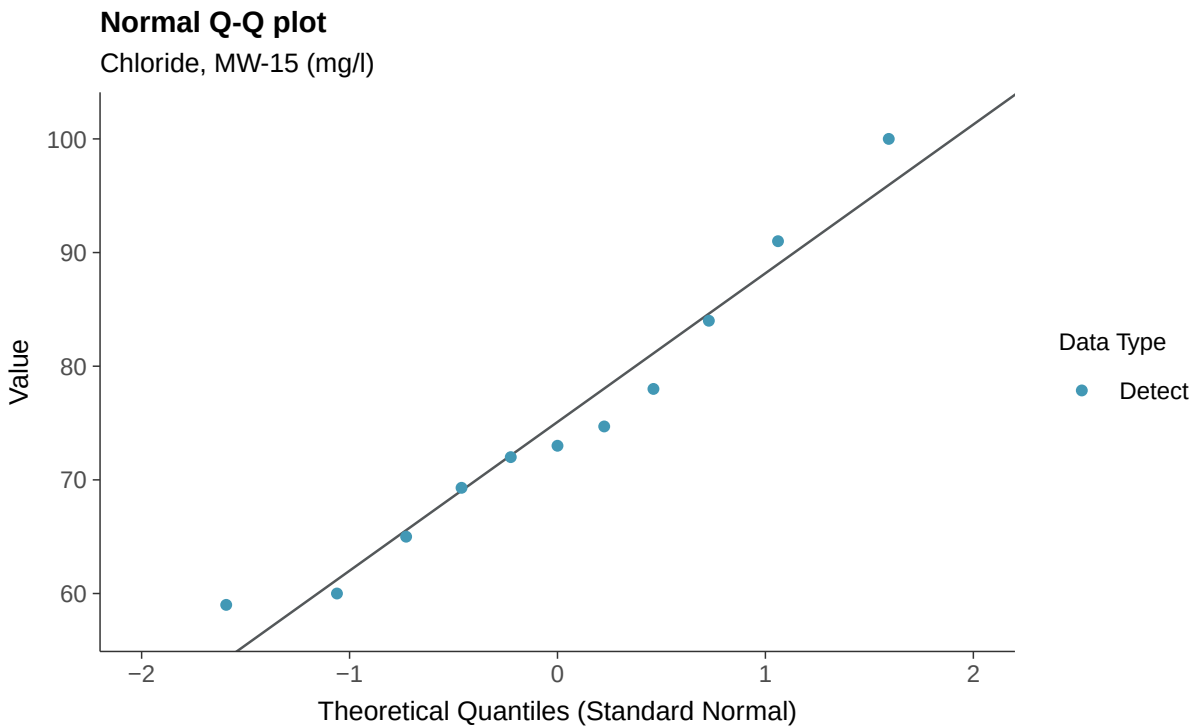


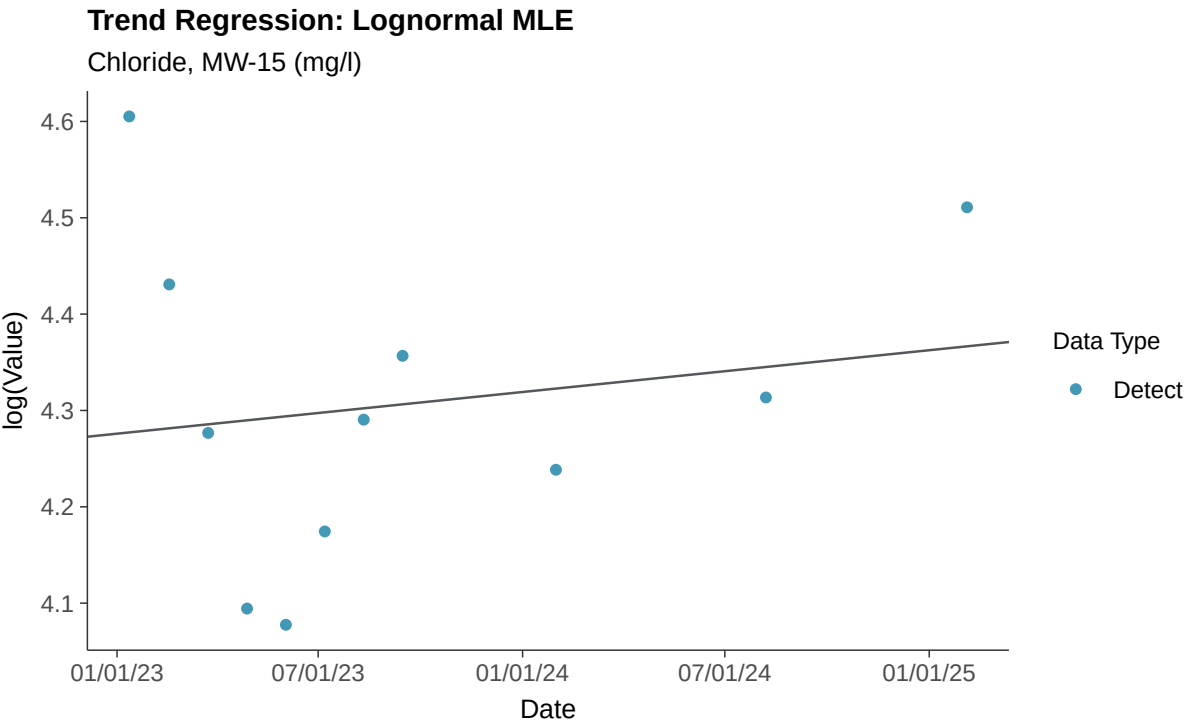
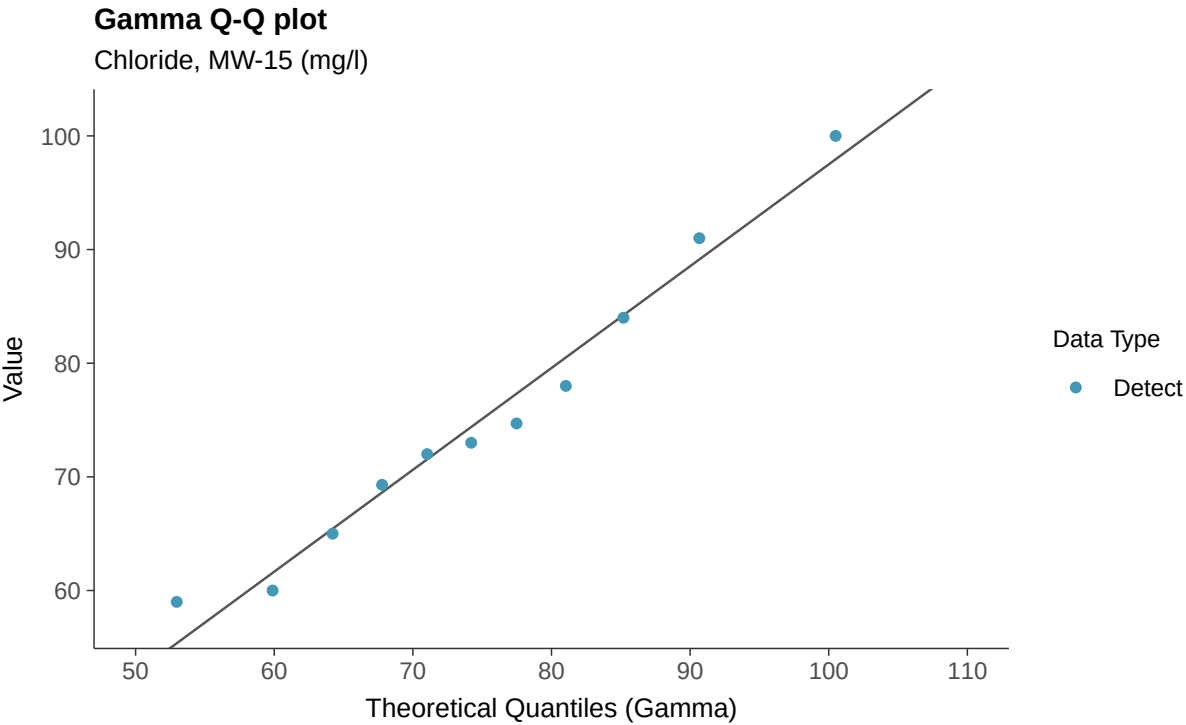
Appendix III: Chloride, MW-15

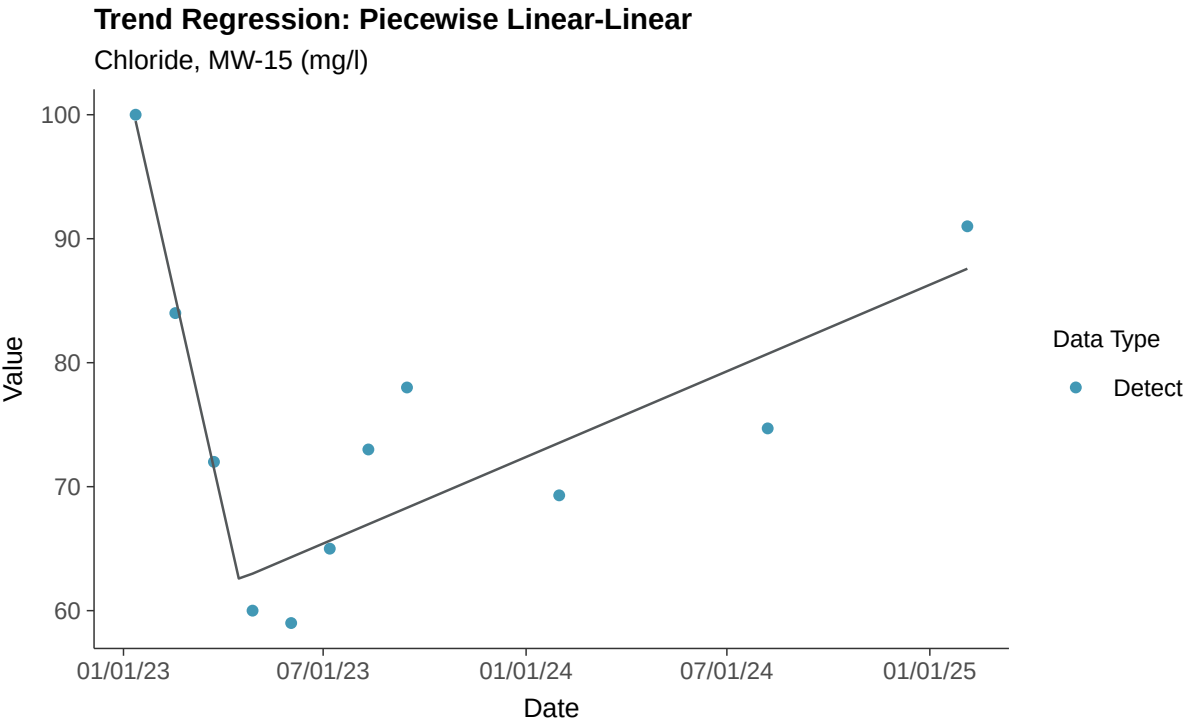
ID: 22_2_108







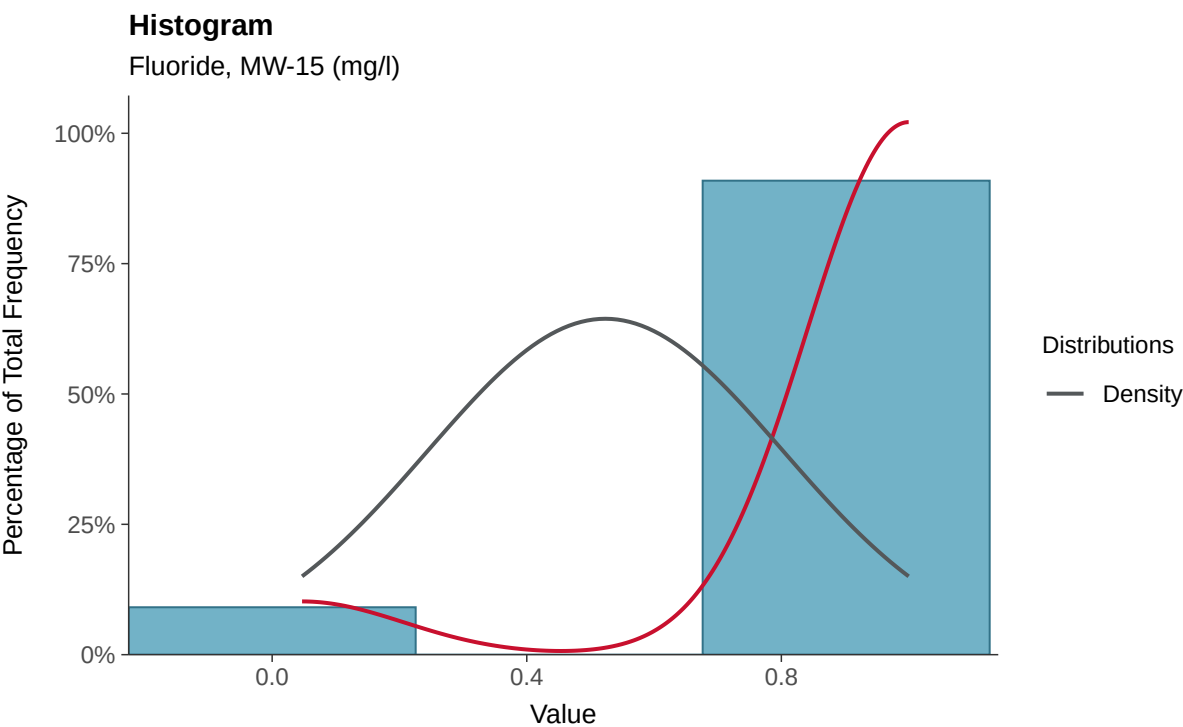
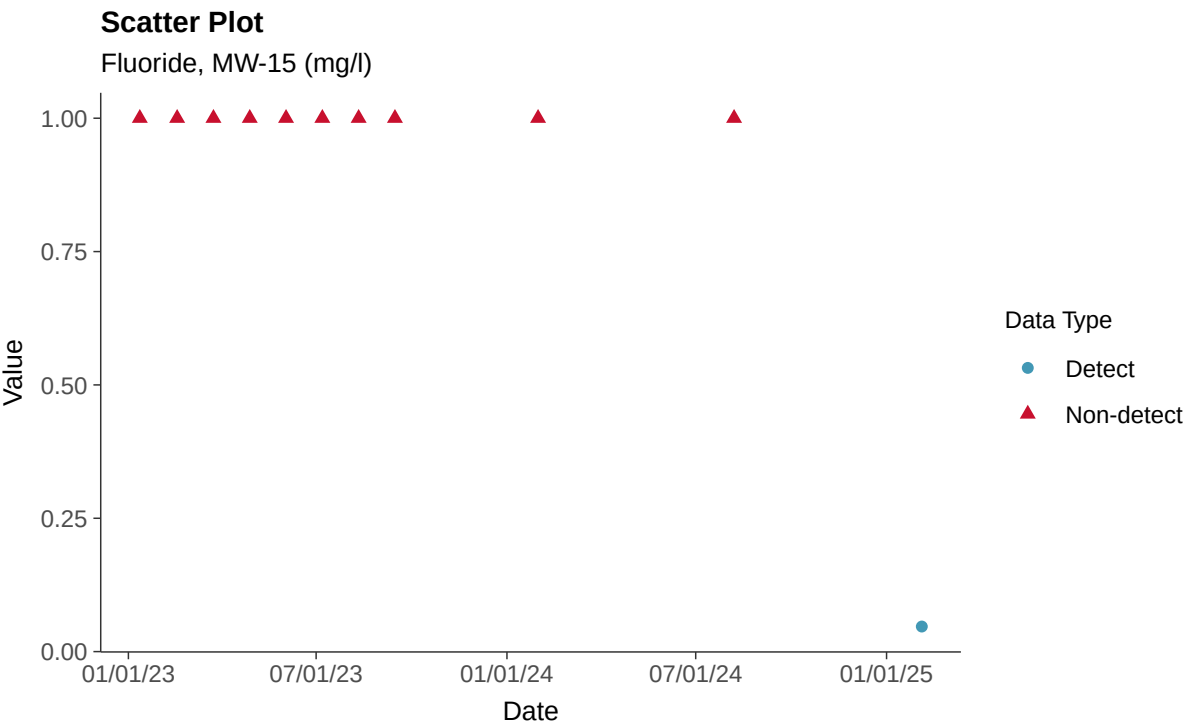


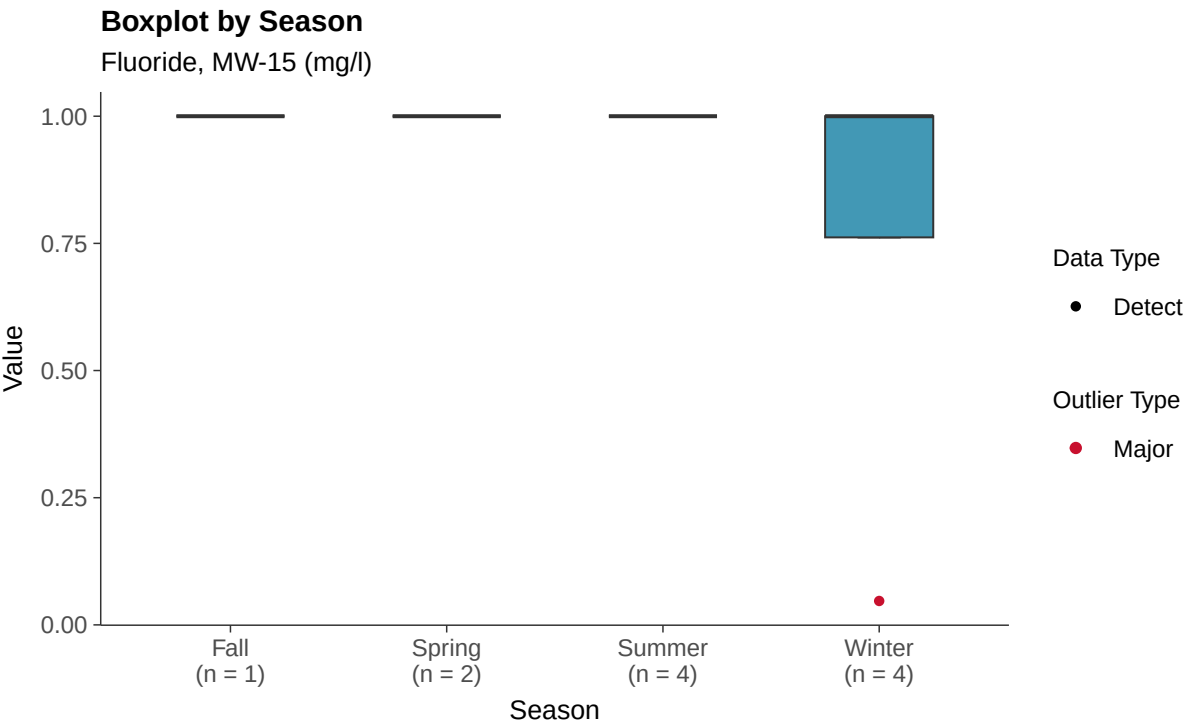
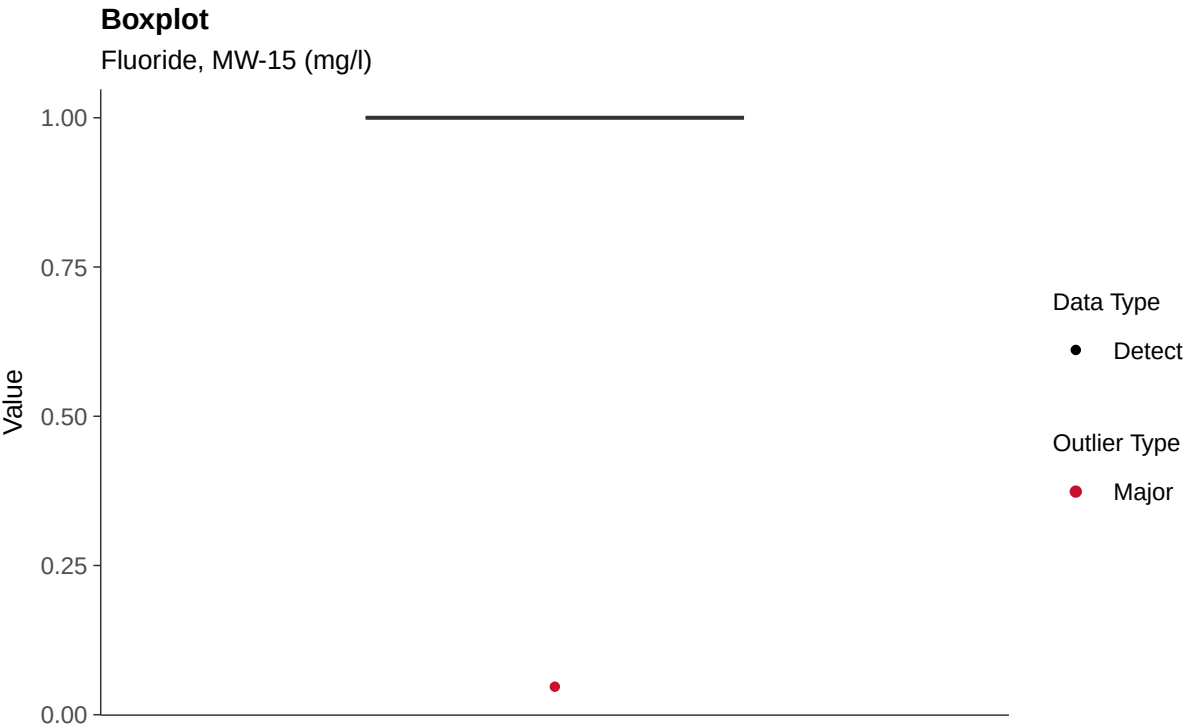




Appendix III: Fluoride, MW-15

ID: 22_2_112

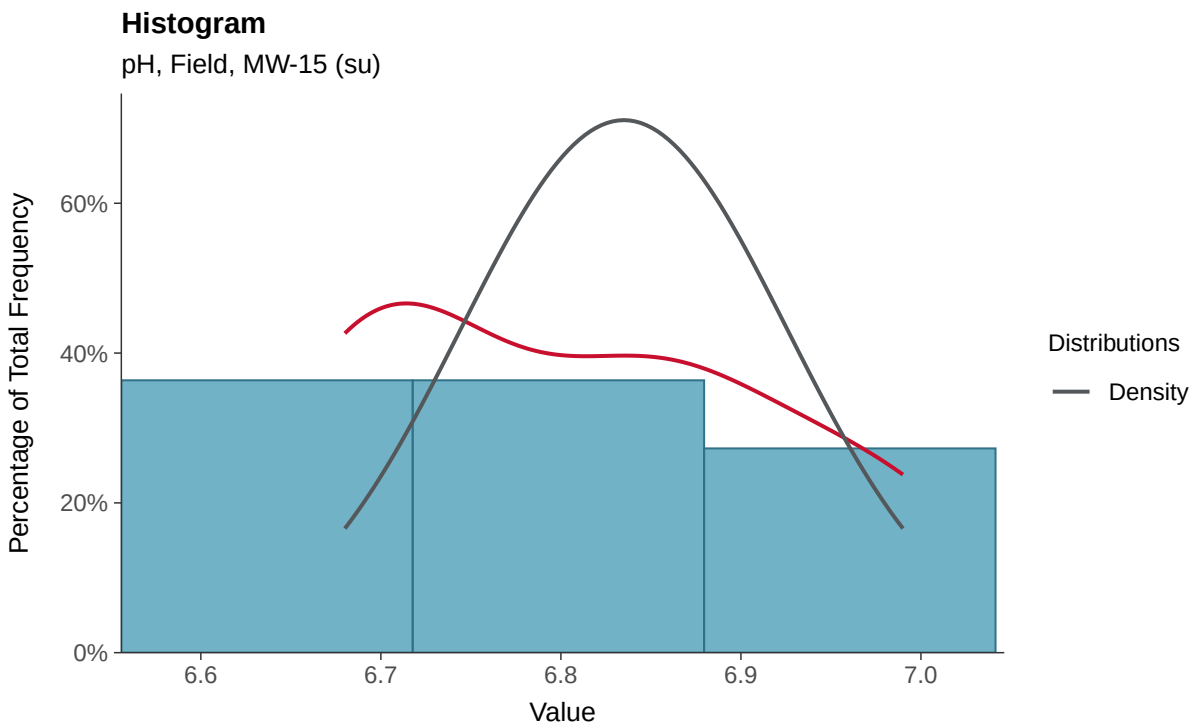
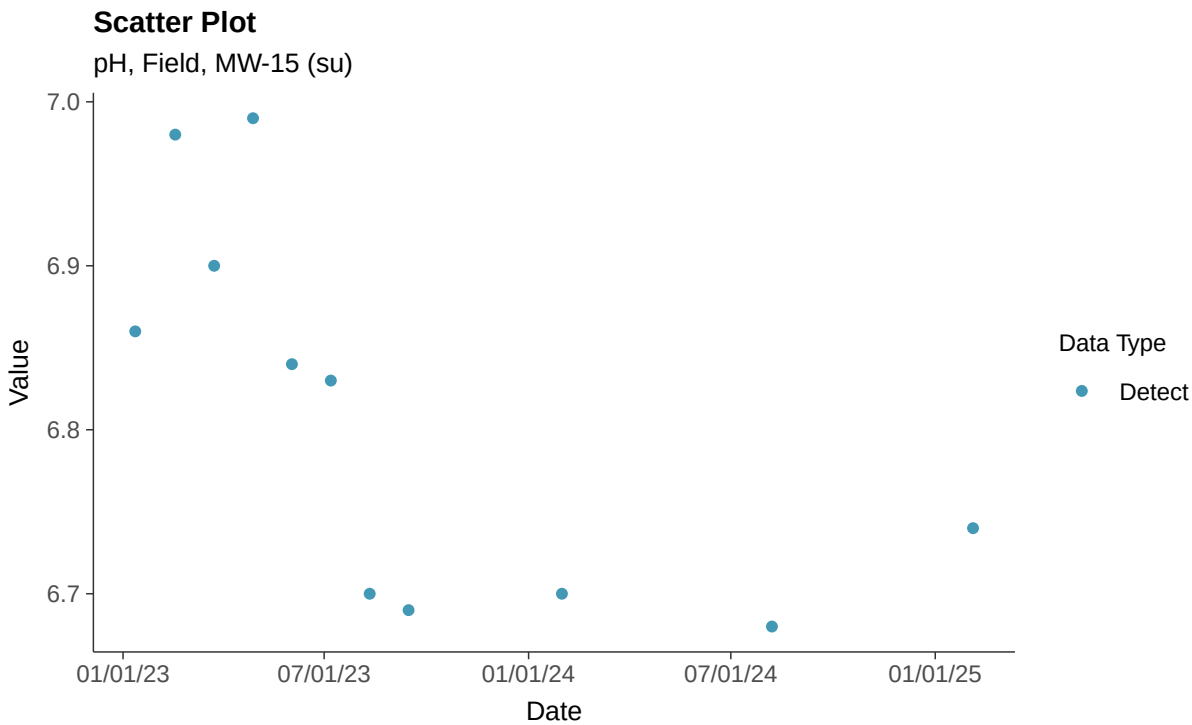


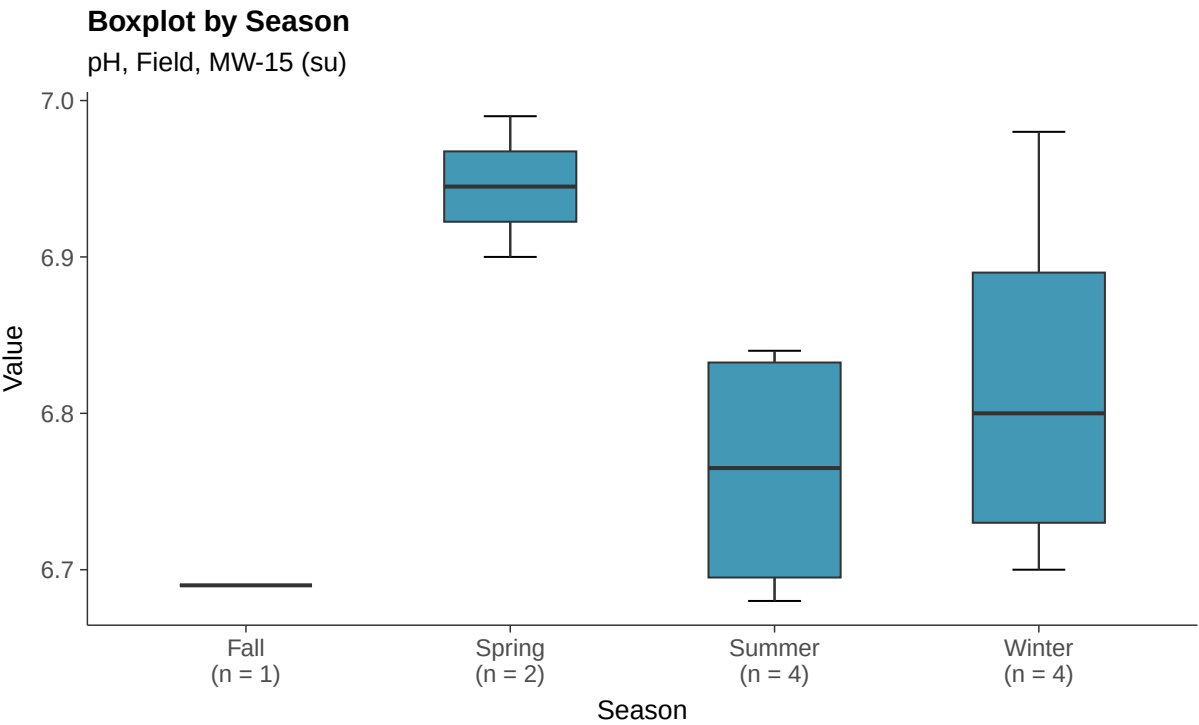
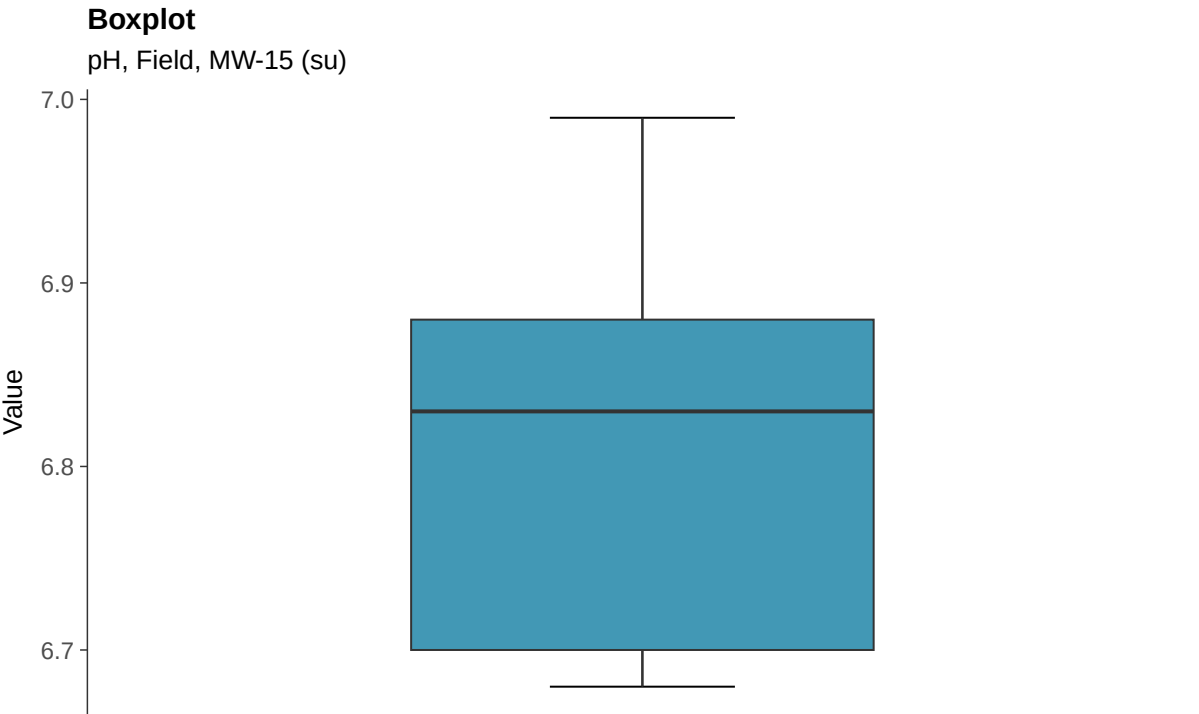


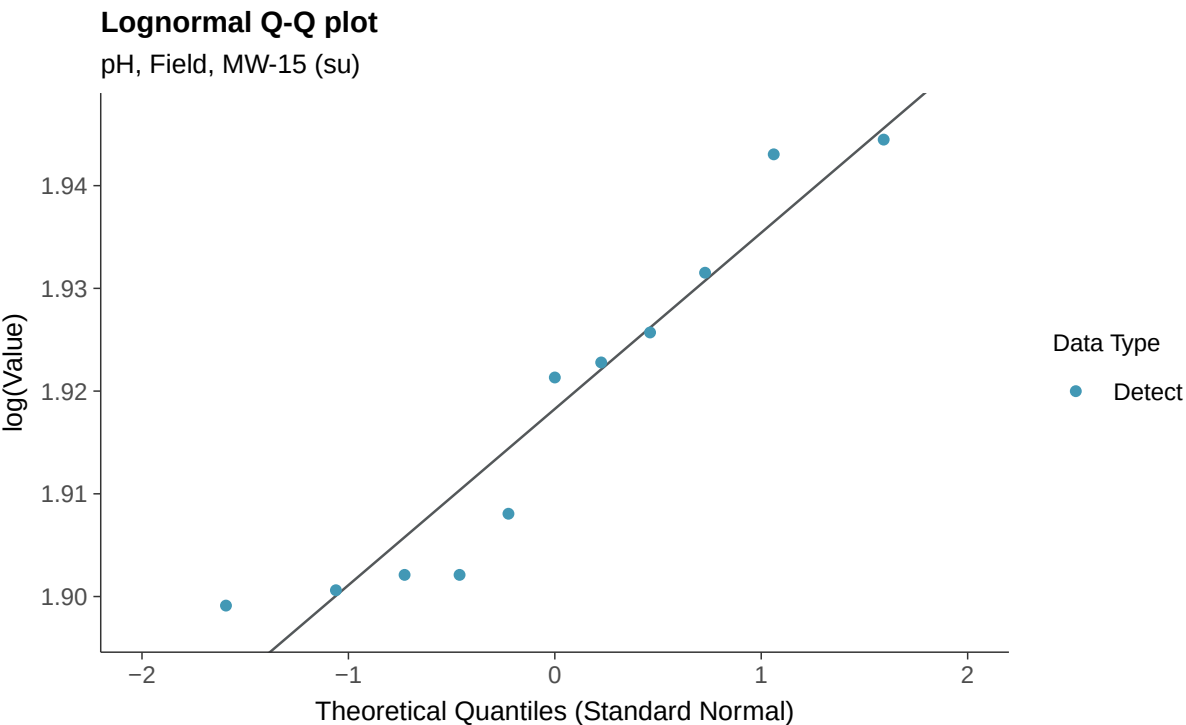
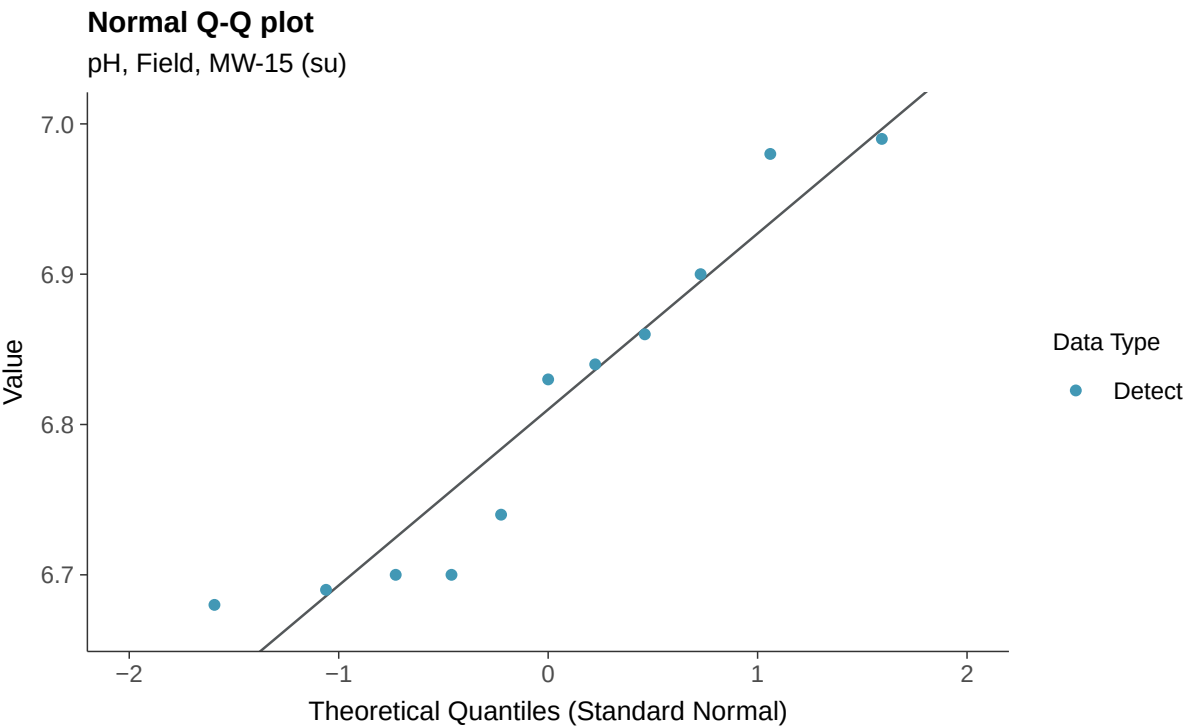


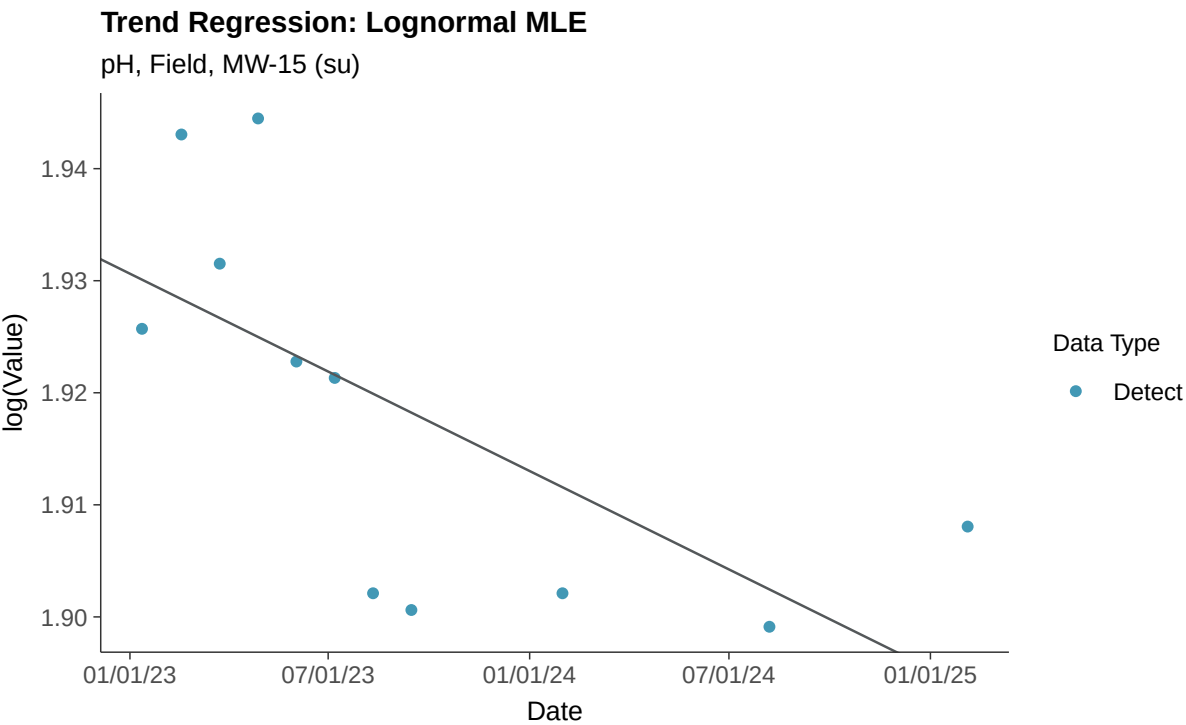
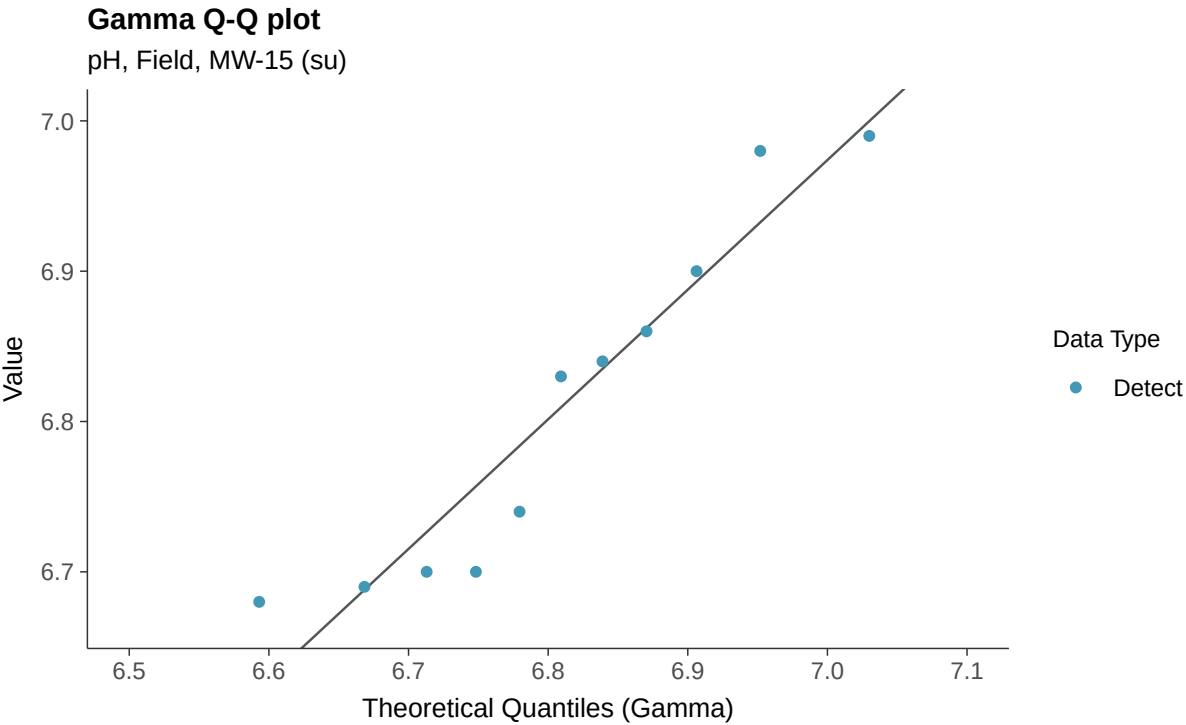
Appendix III: pH, Field, MW-15

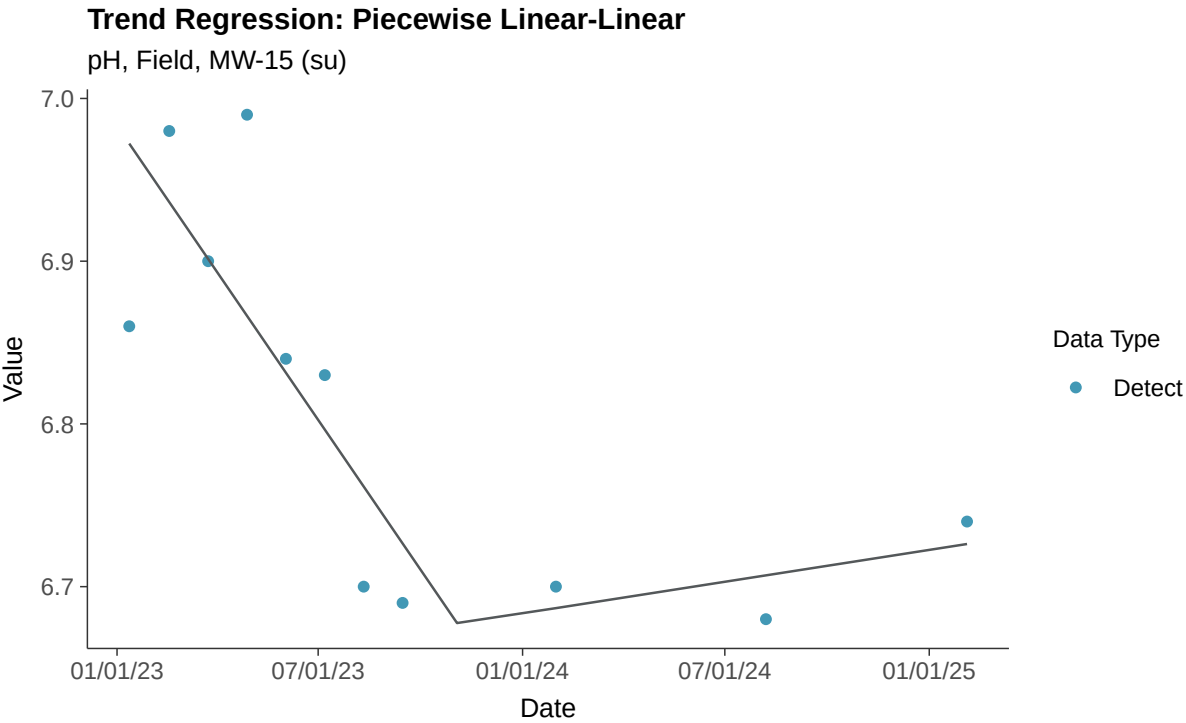
ID: 22_2_120







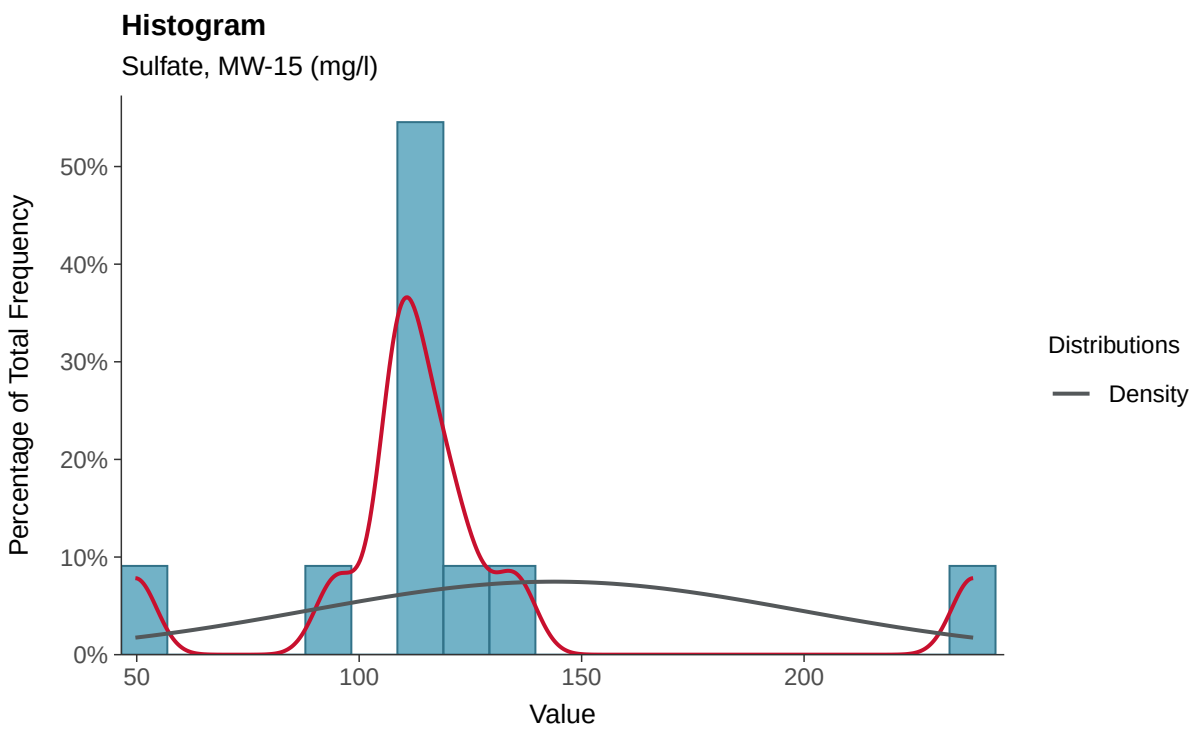
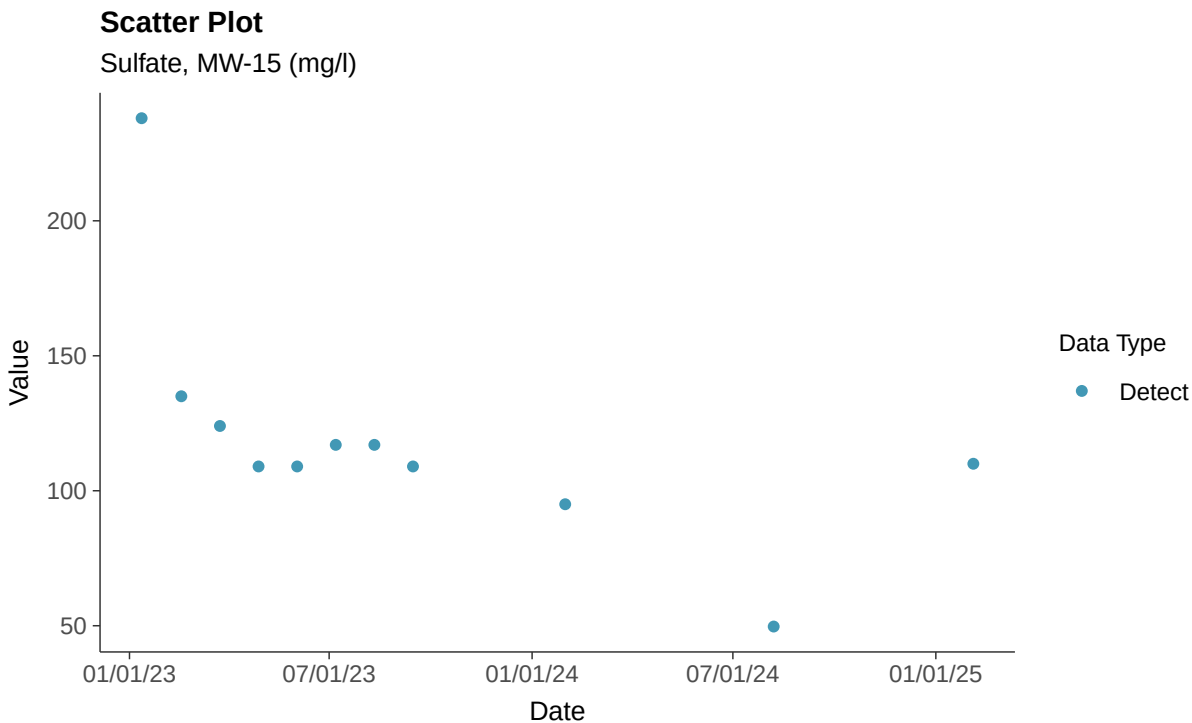


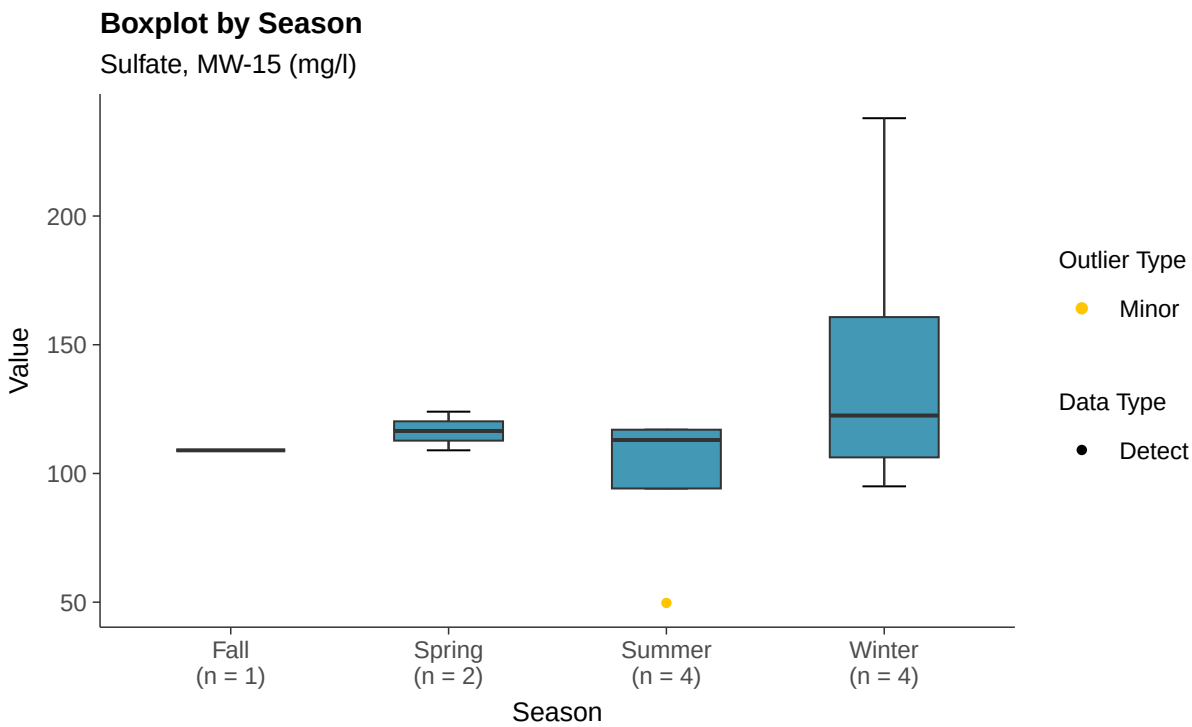
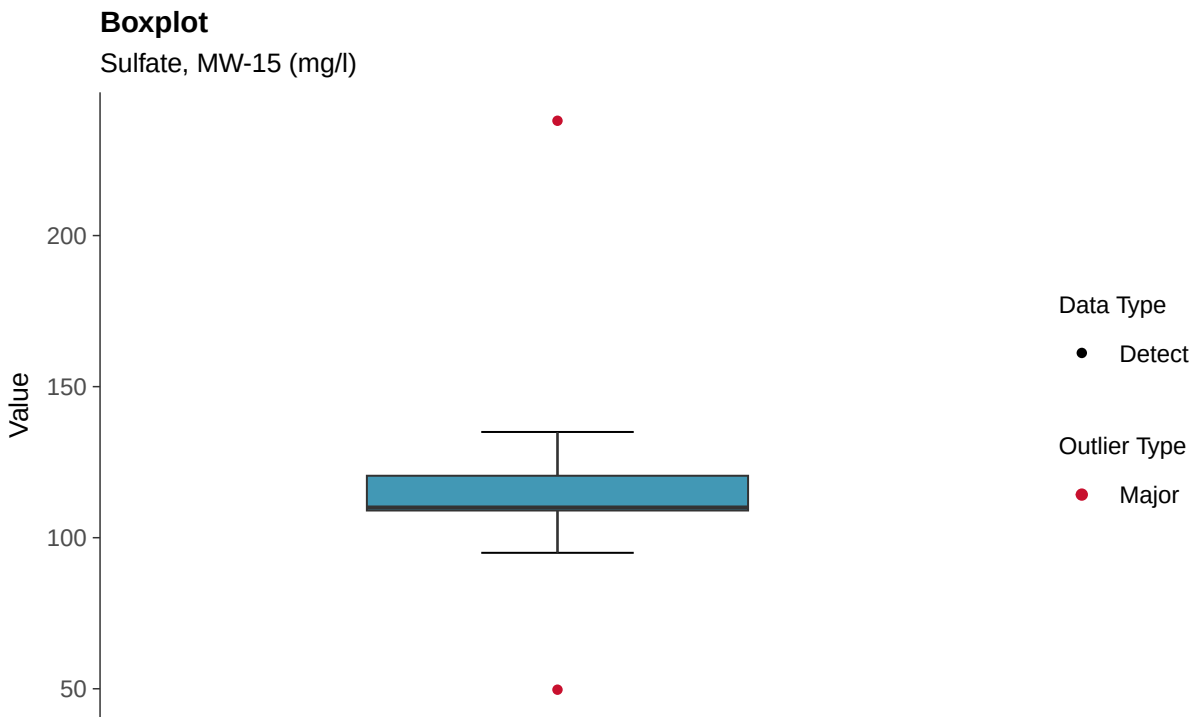


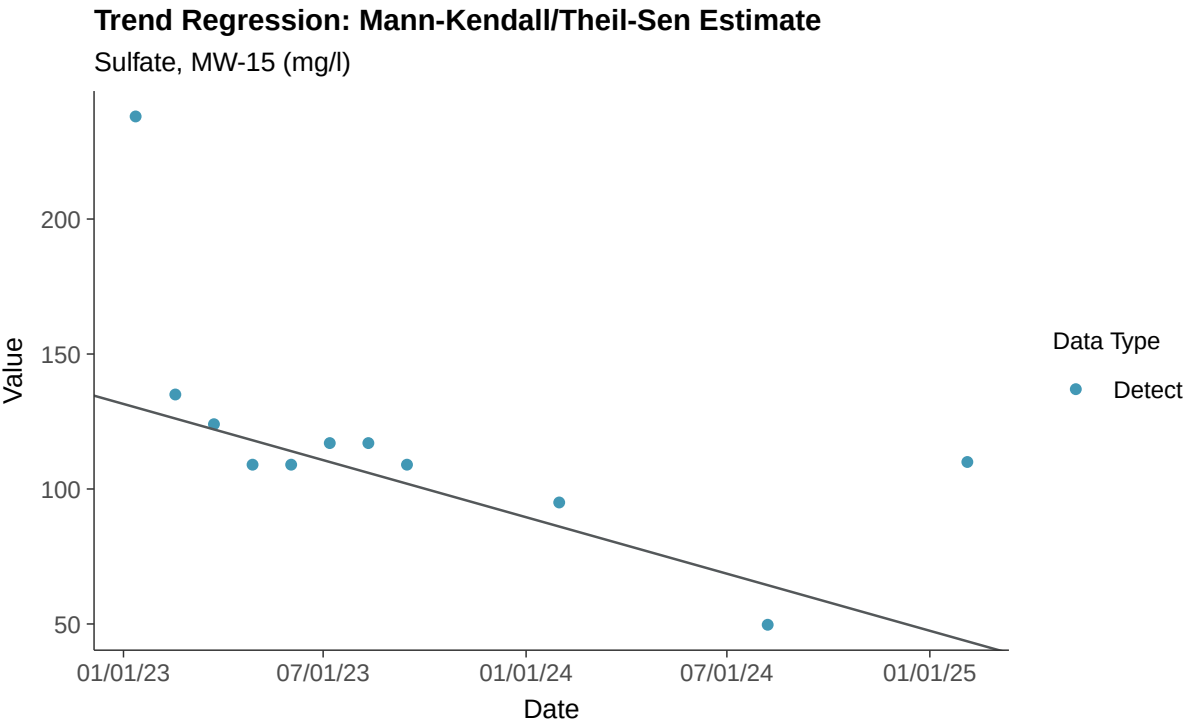
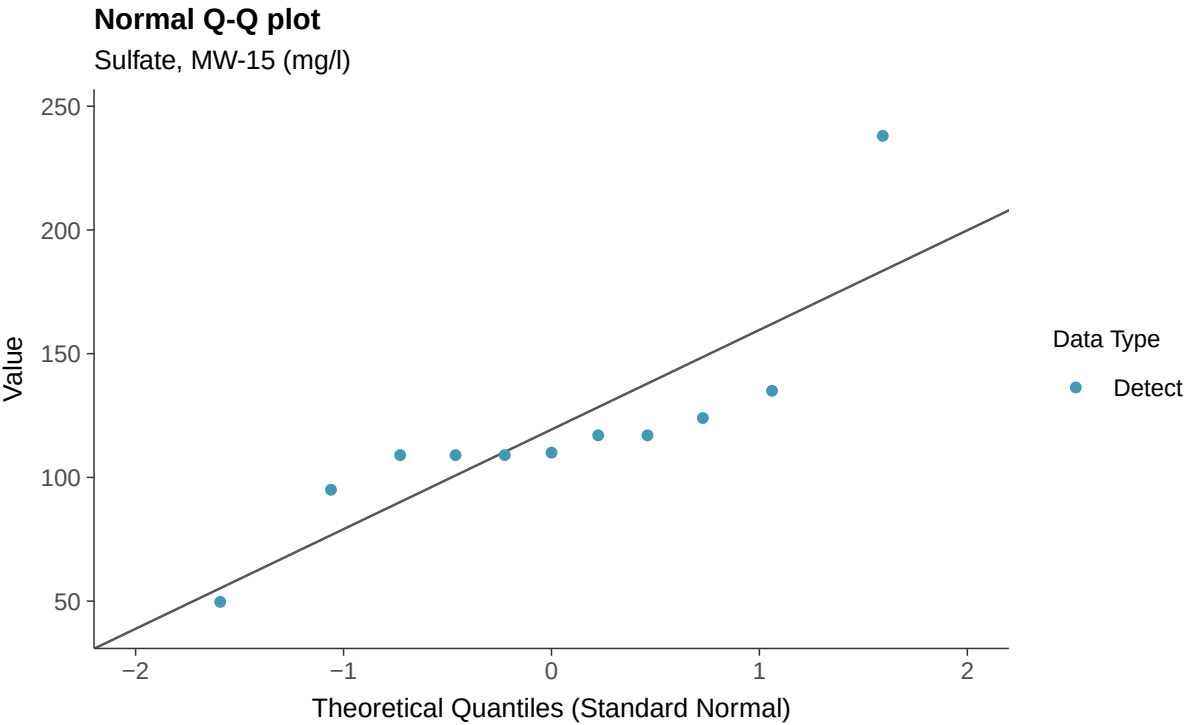


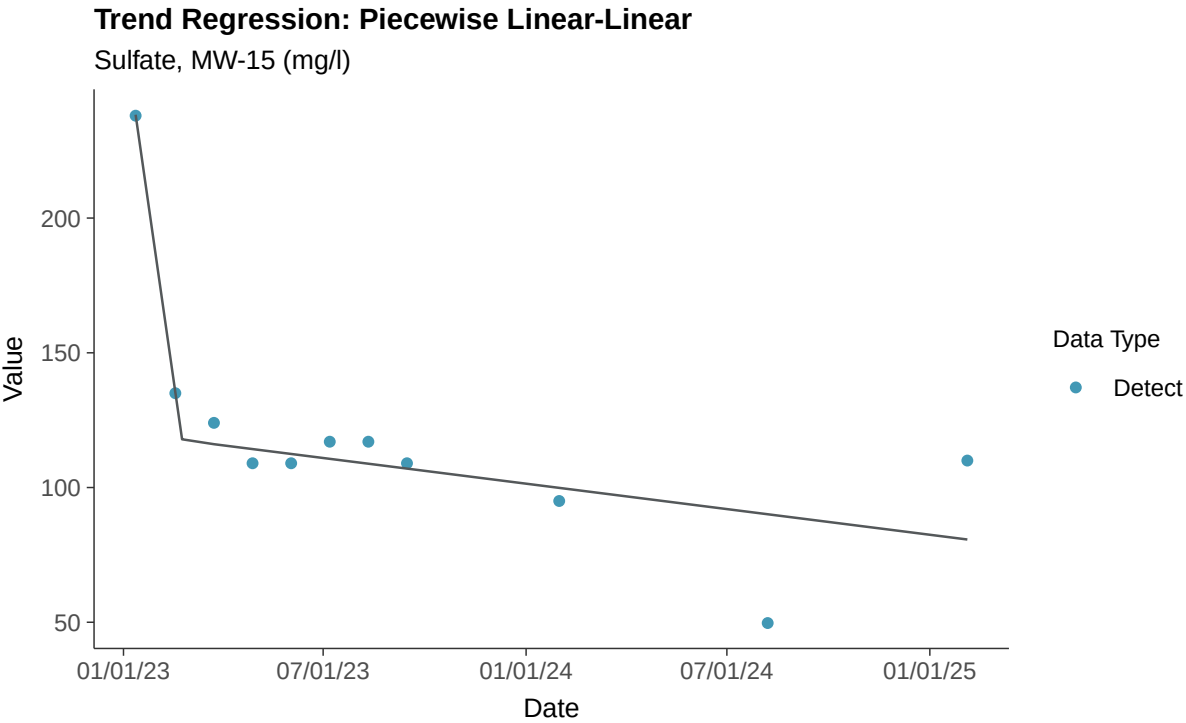
Appendix III: Sulfate, MW-15

ID: 22_2_124





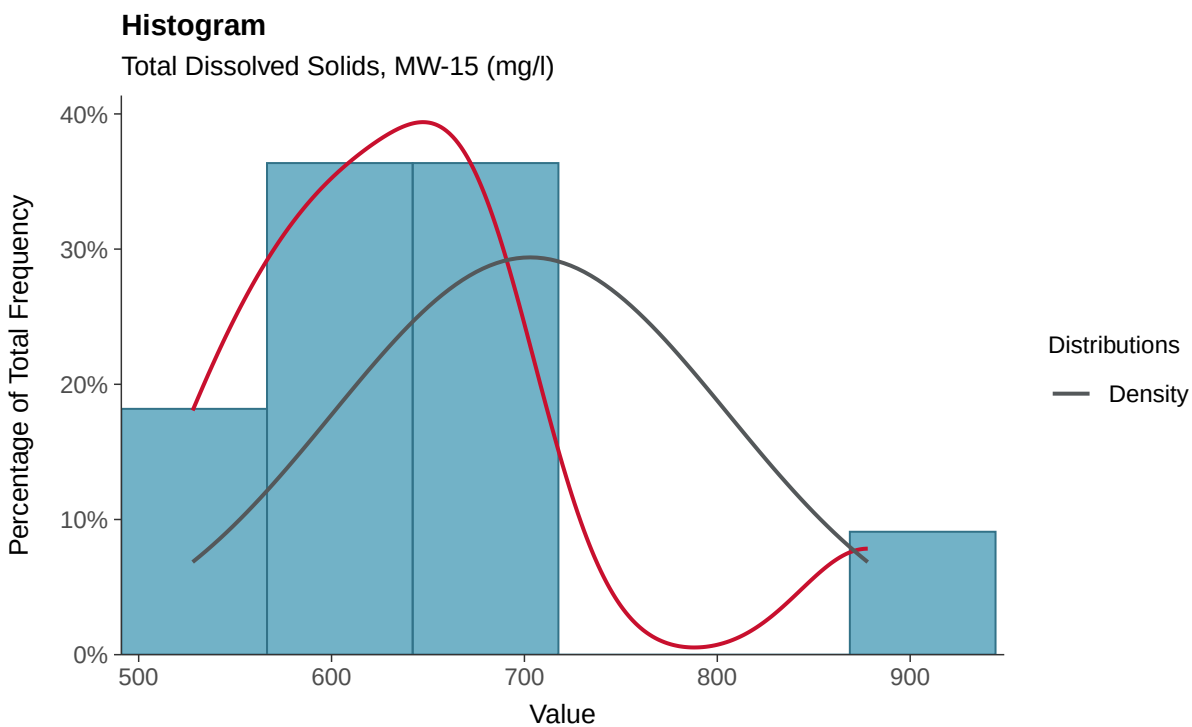
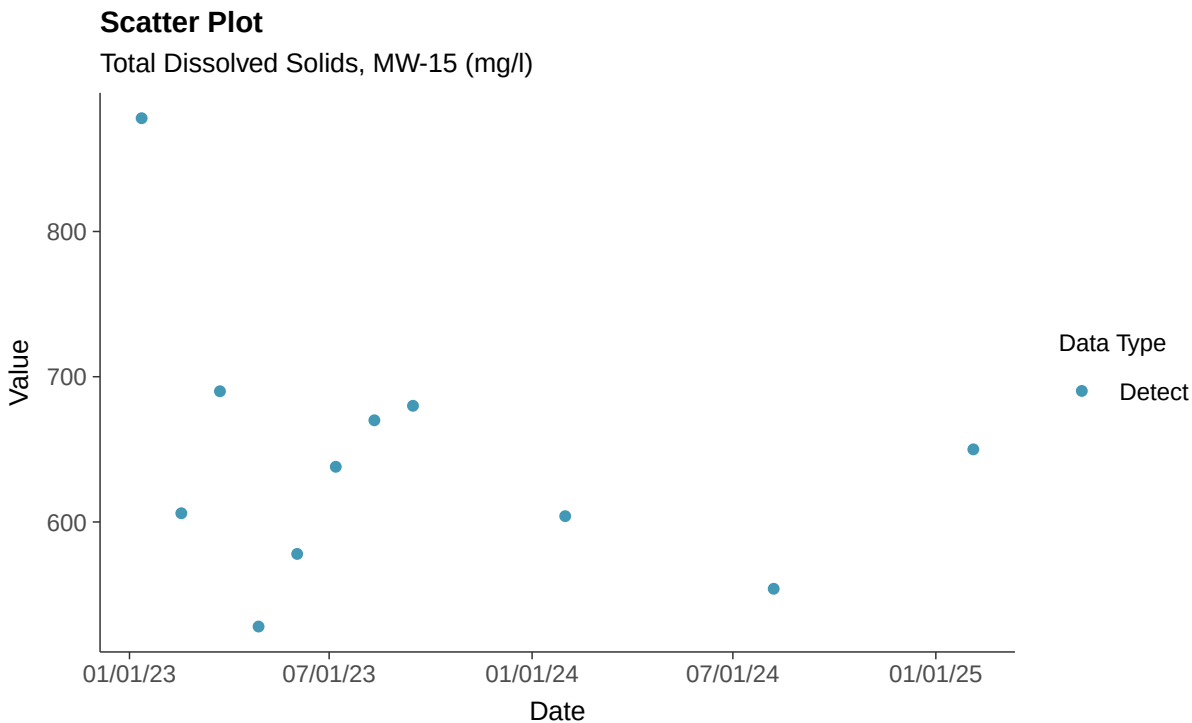


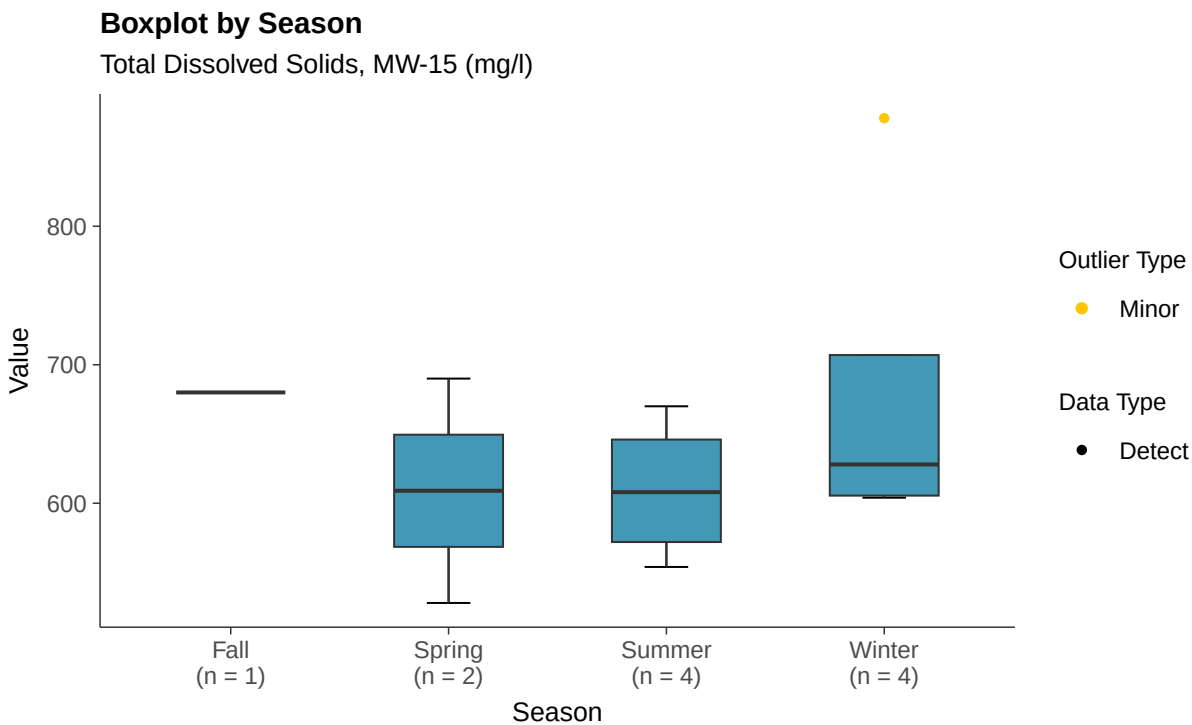
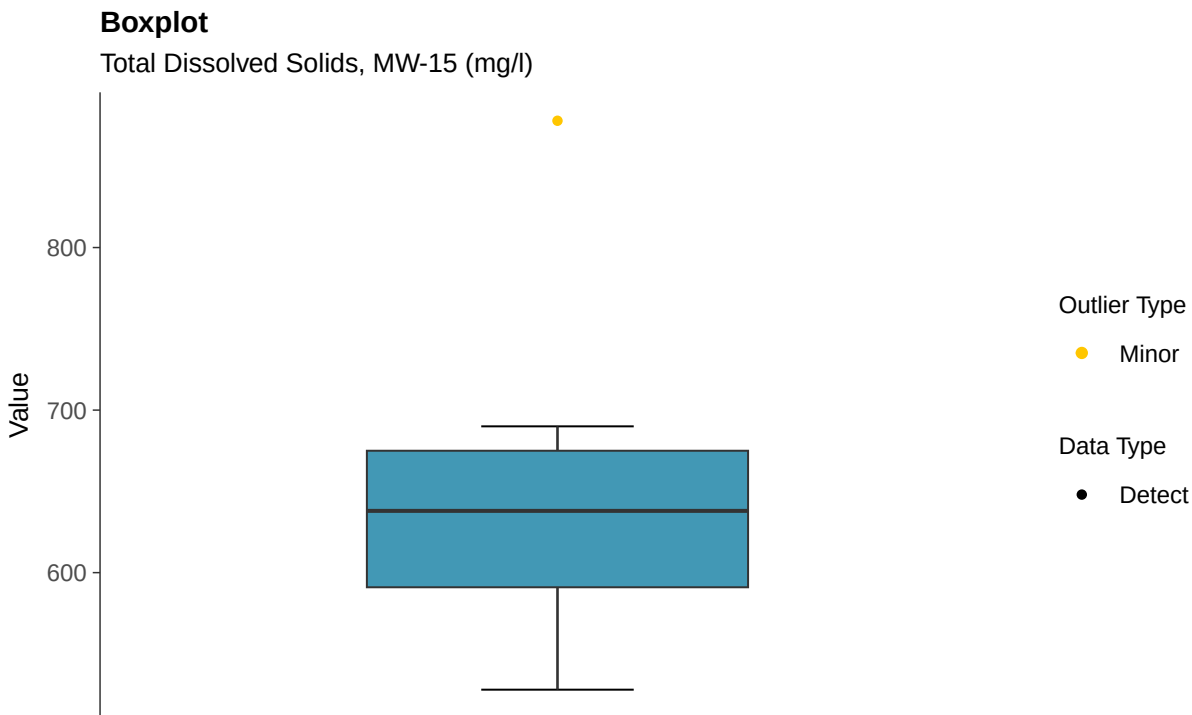


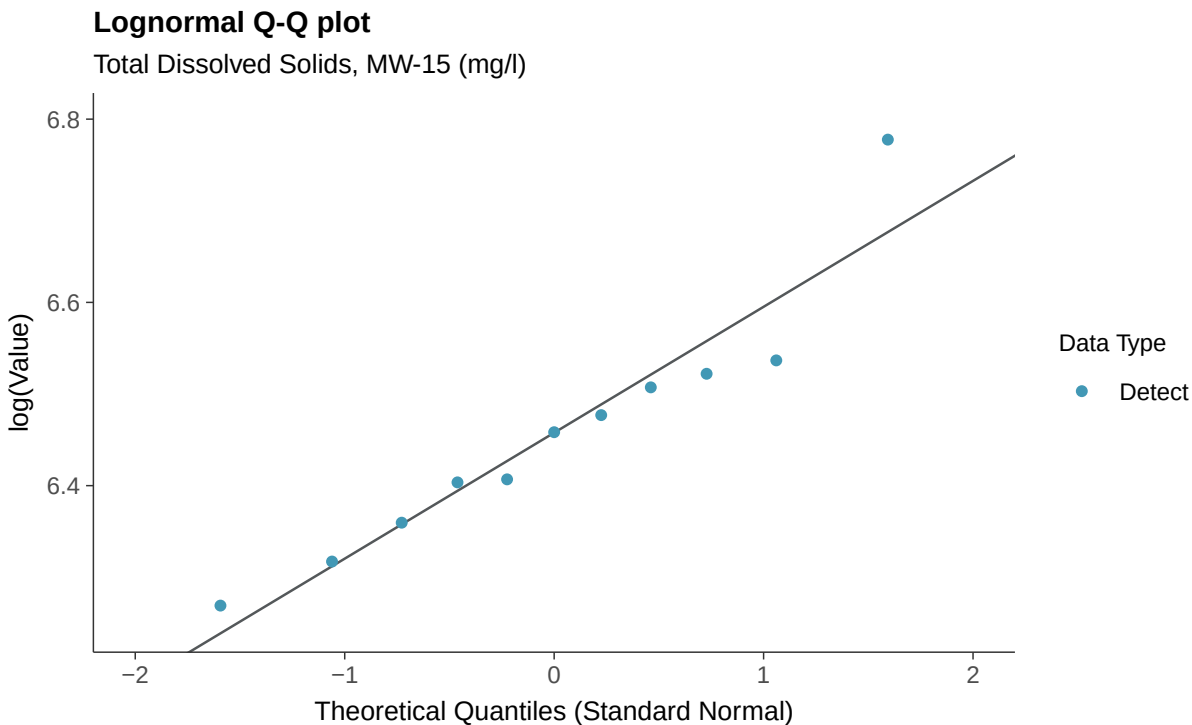
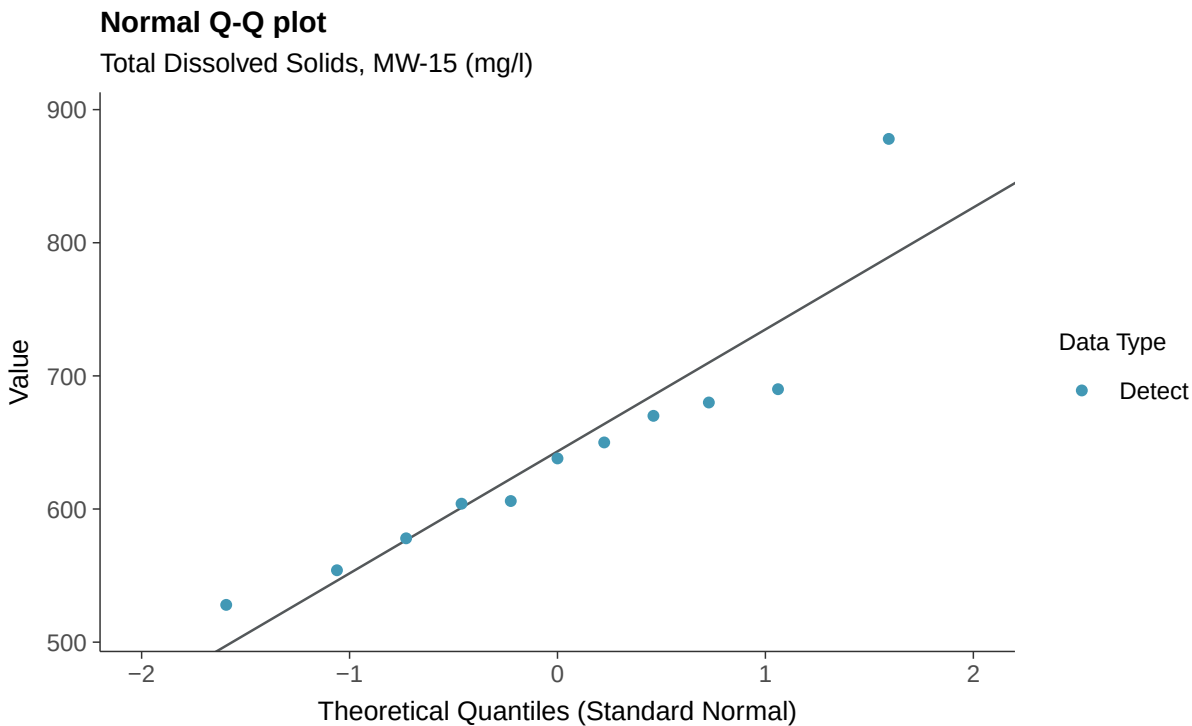


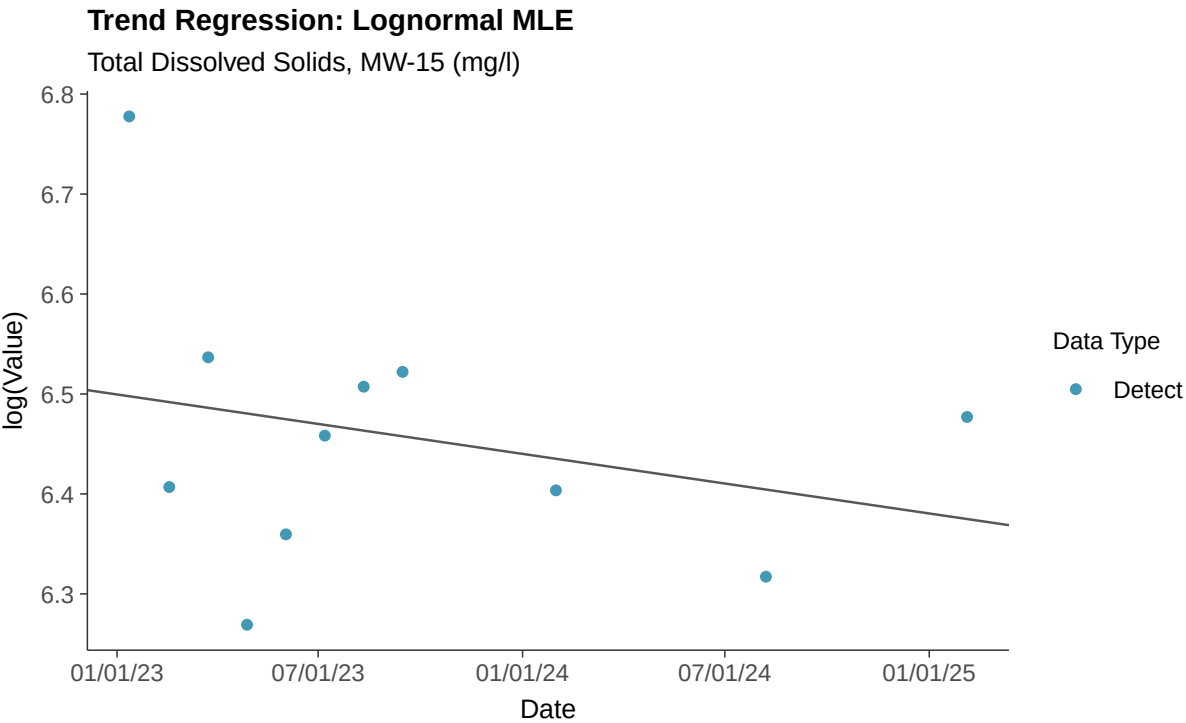
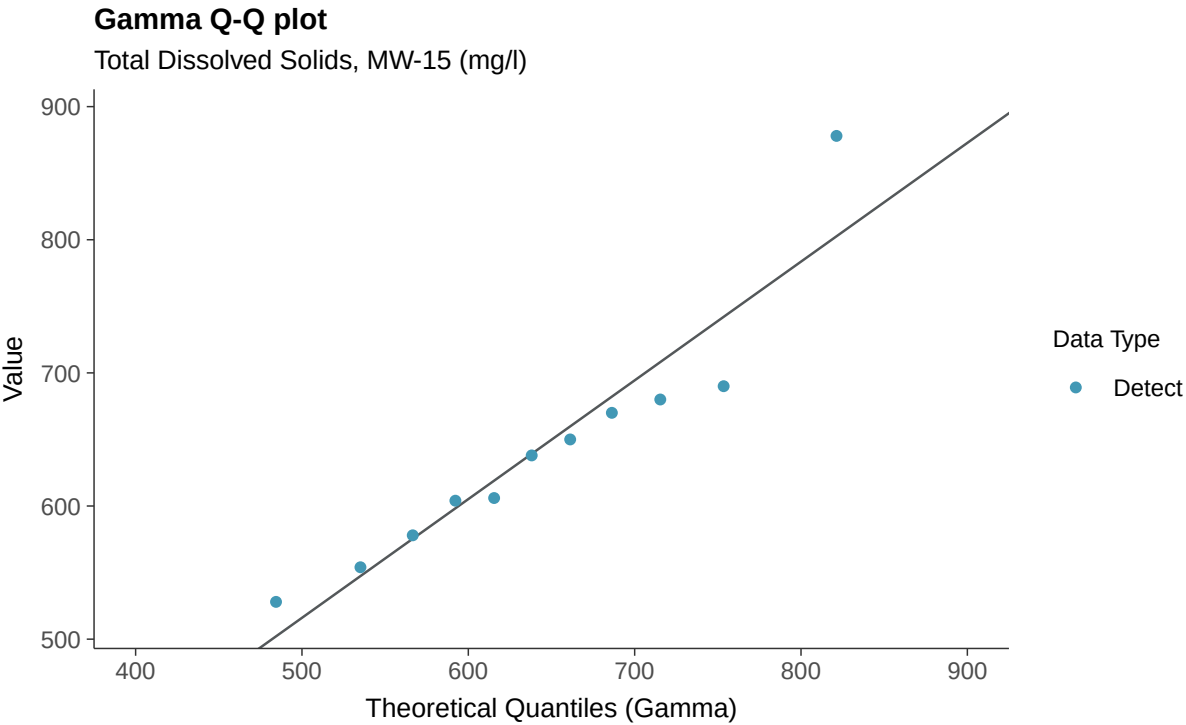
Appendix III: Total Dissolved Solids, MW-15

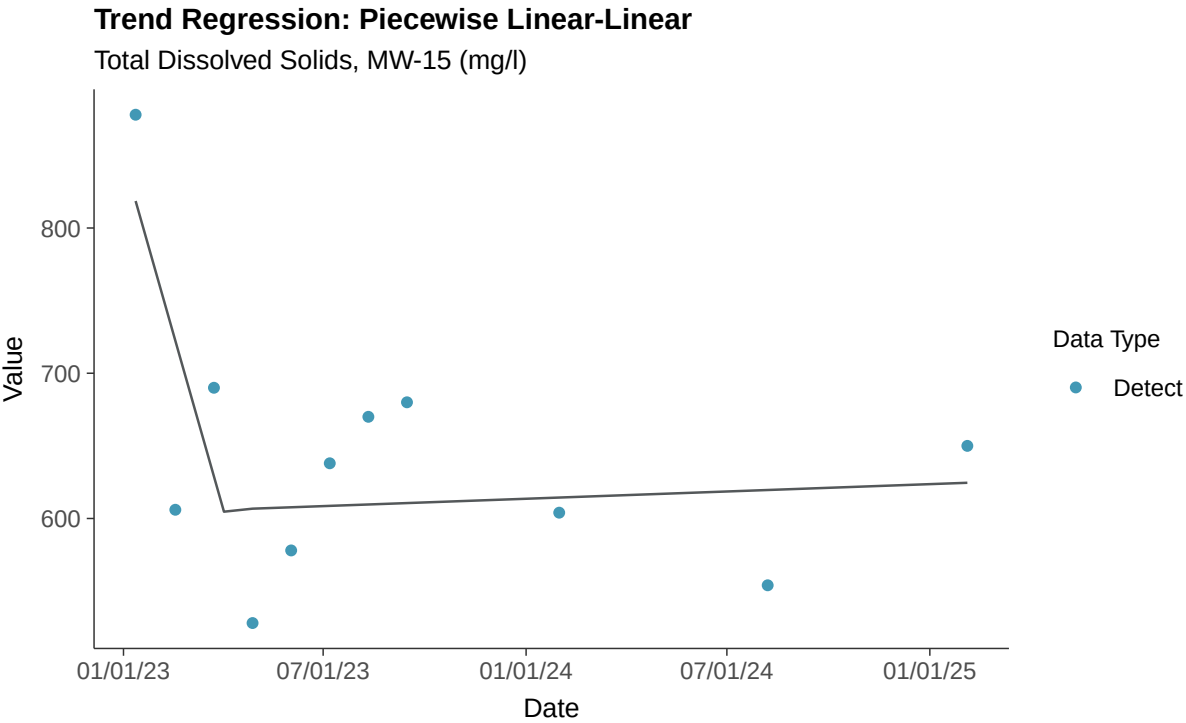
ID: 22_2_126







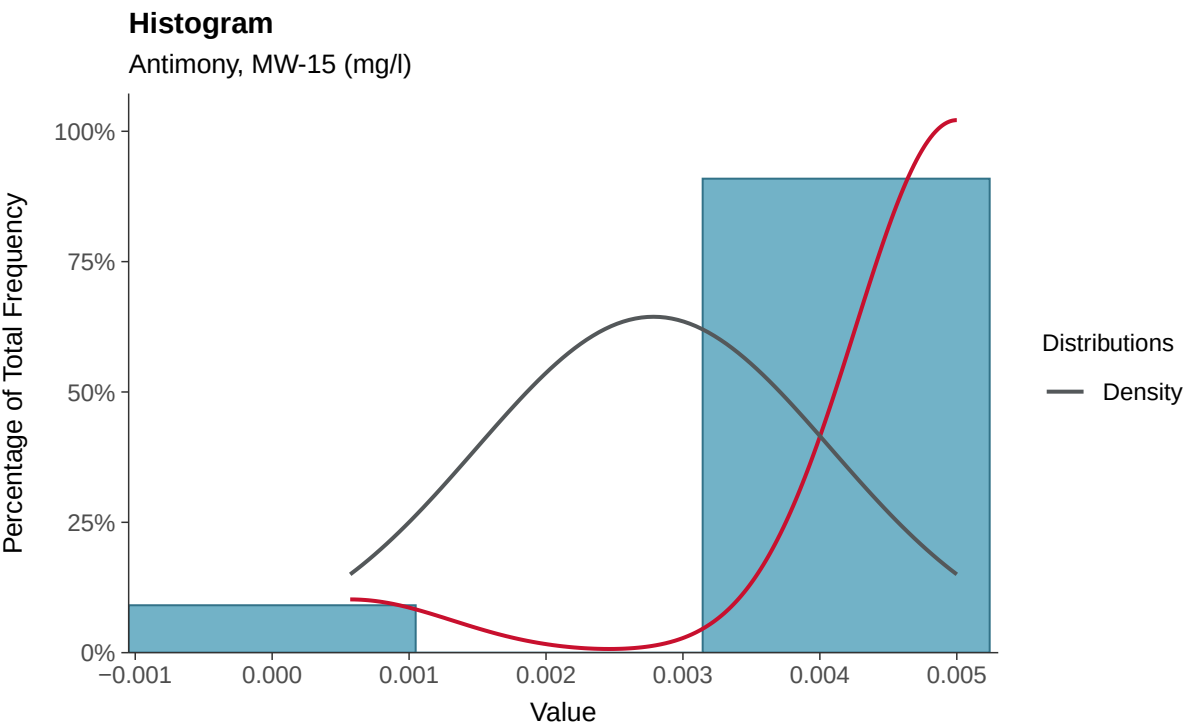
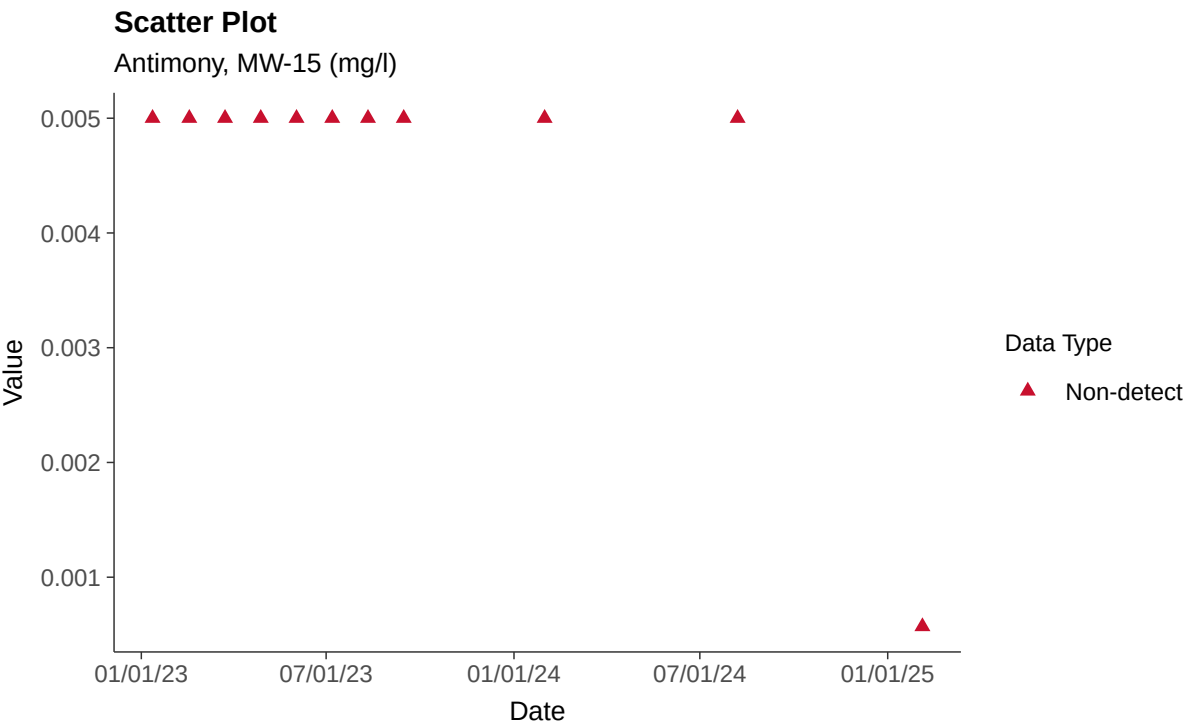


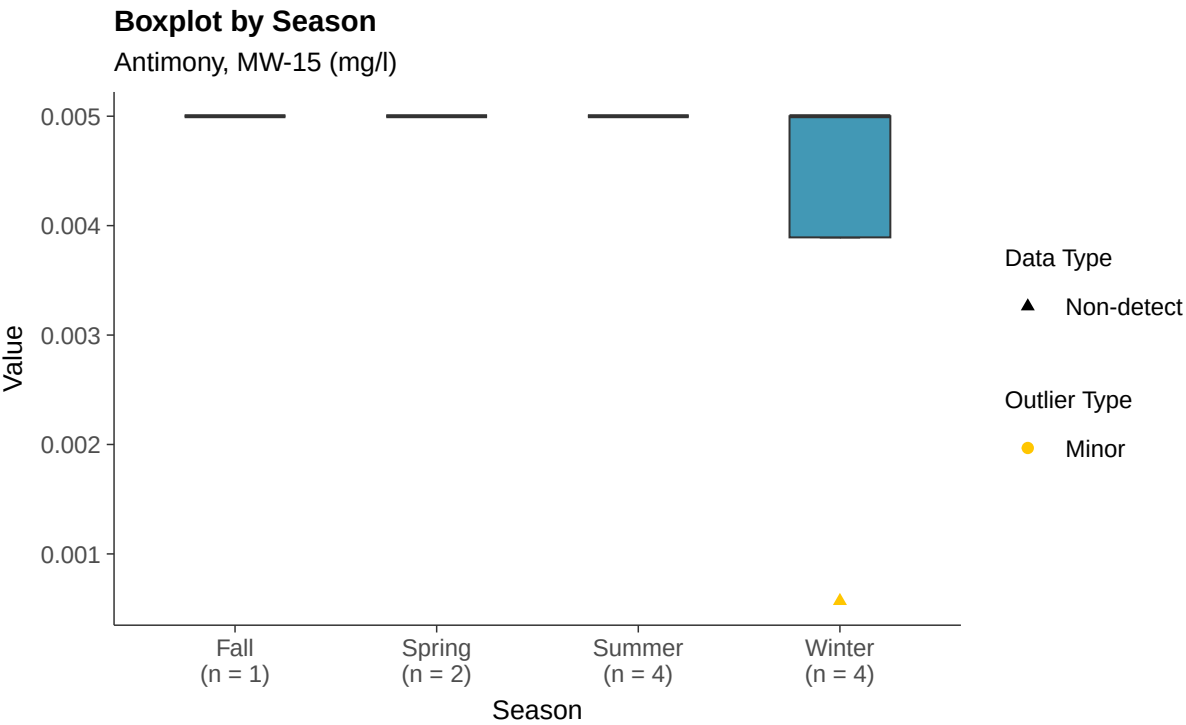
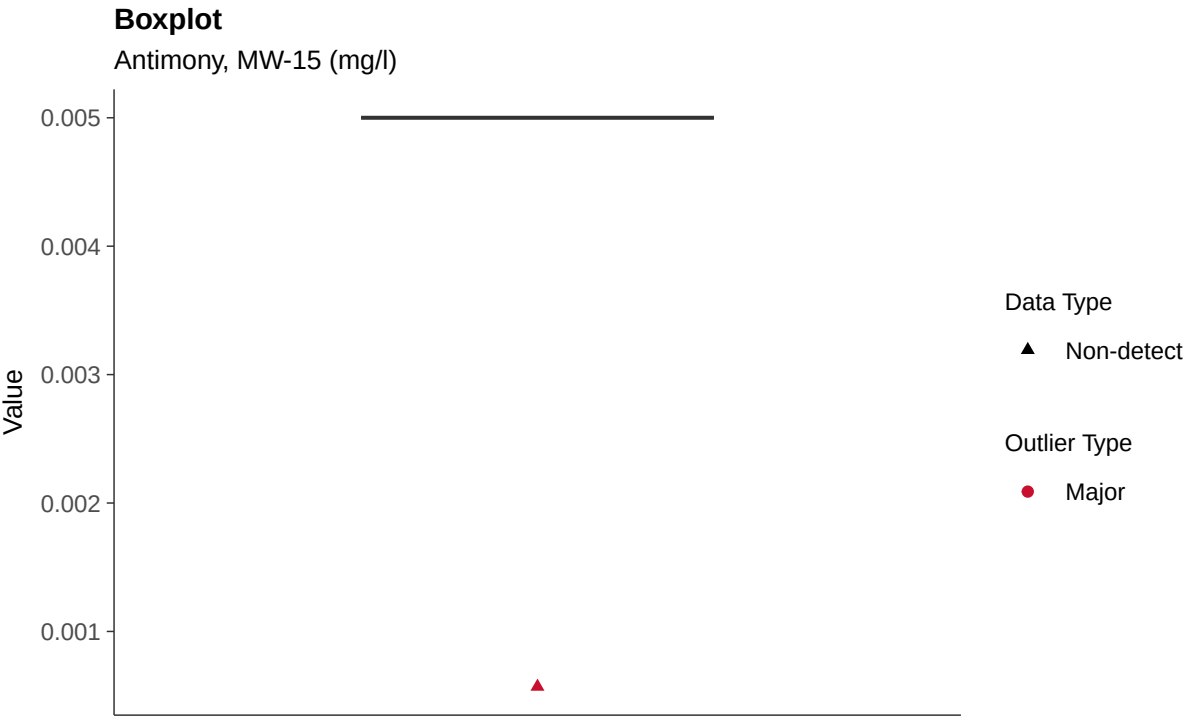




Appendix IV: Antimony, MW-15

ID: 22_3_101

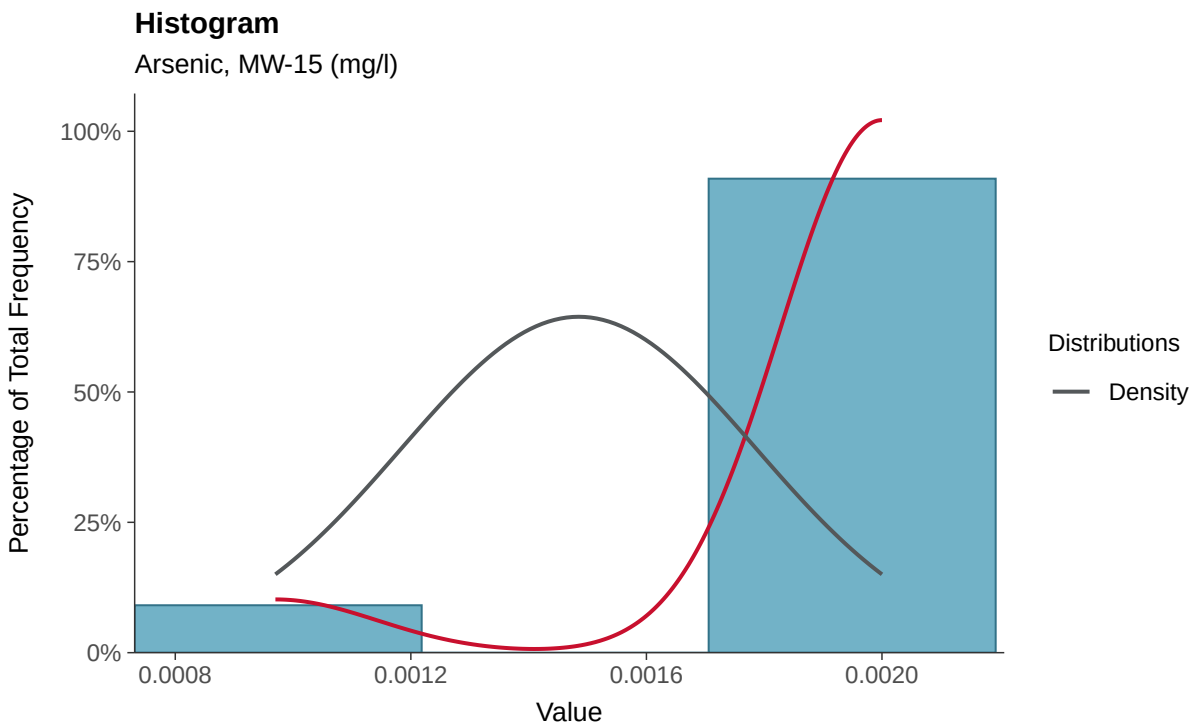
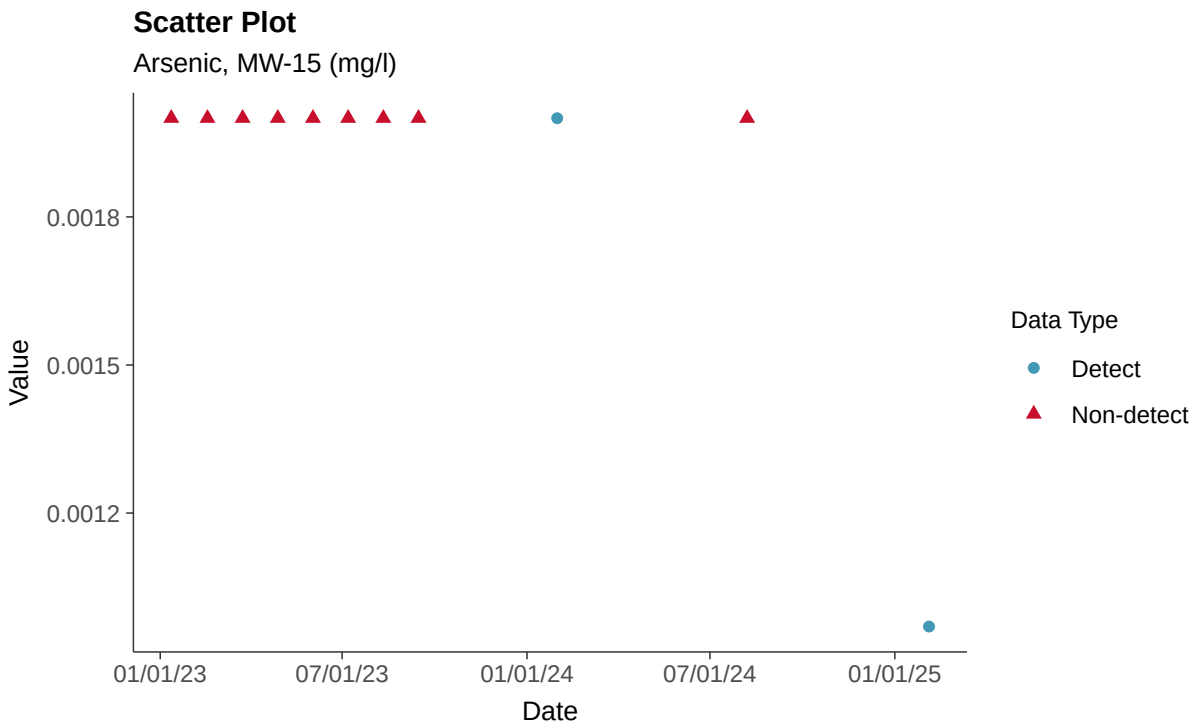


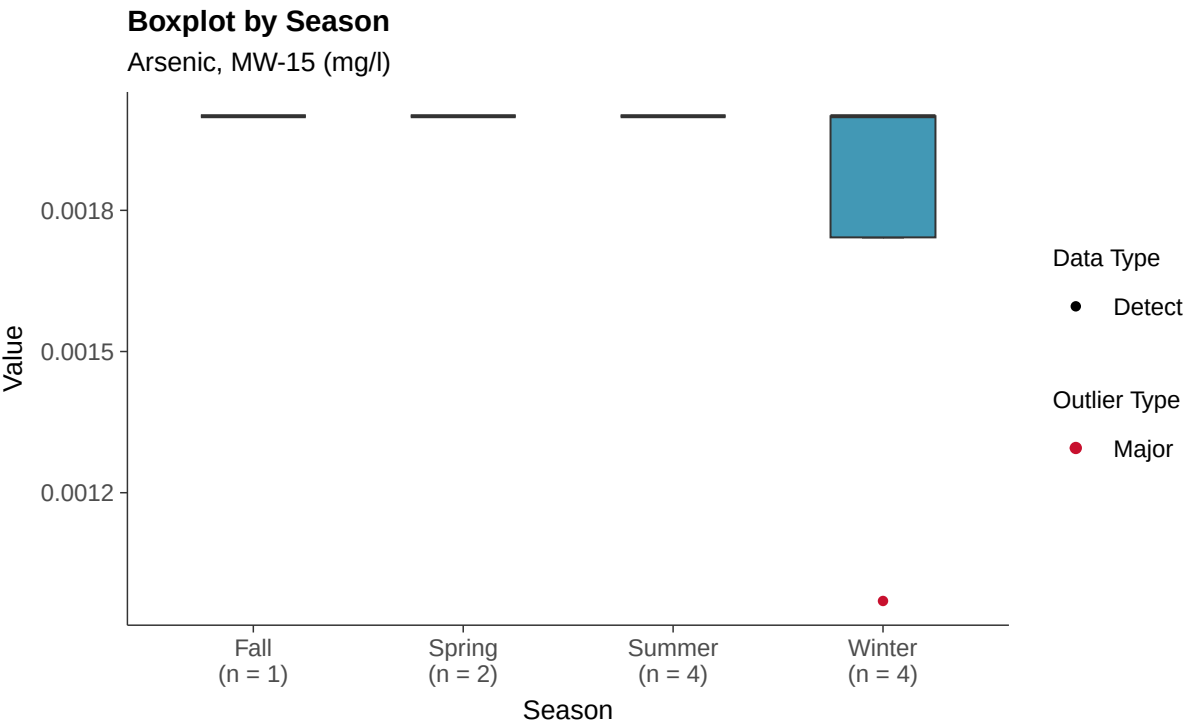
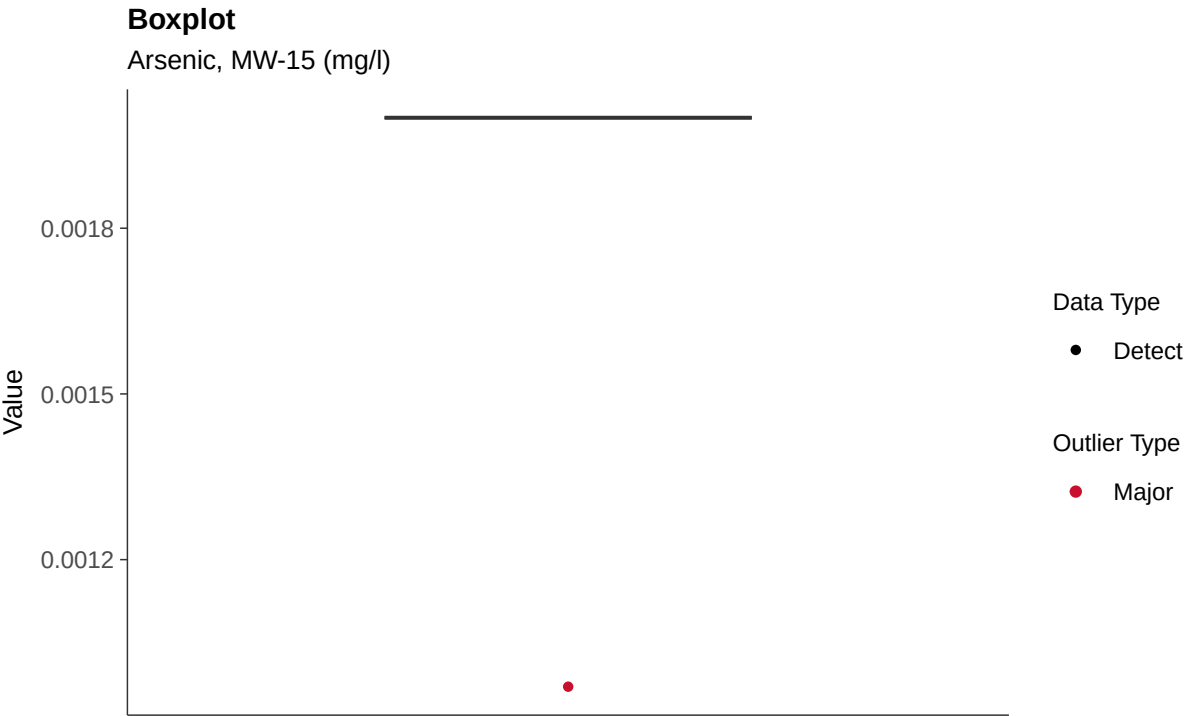


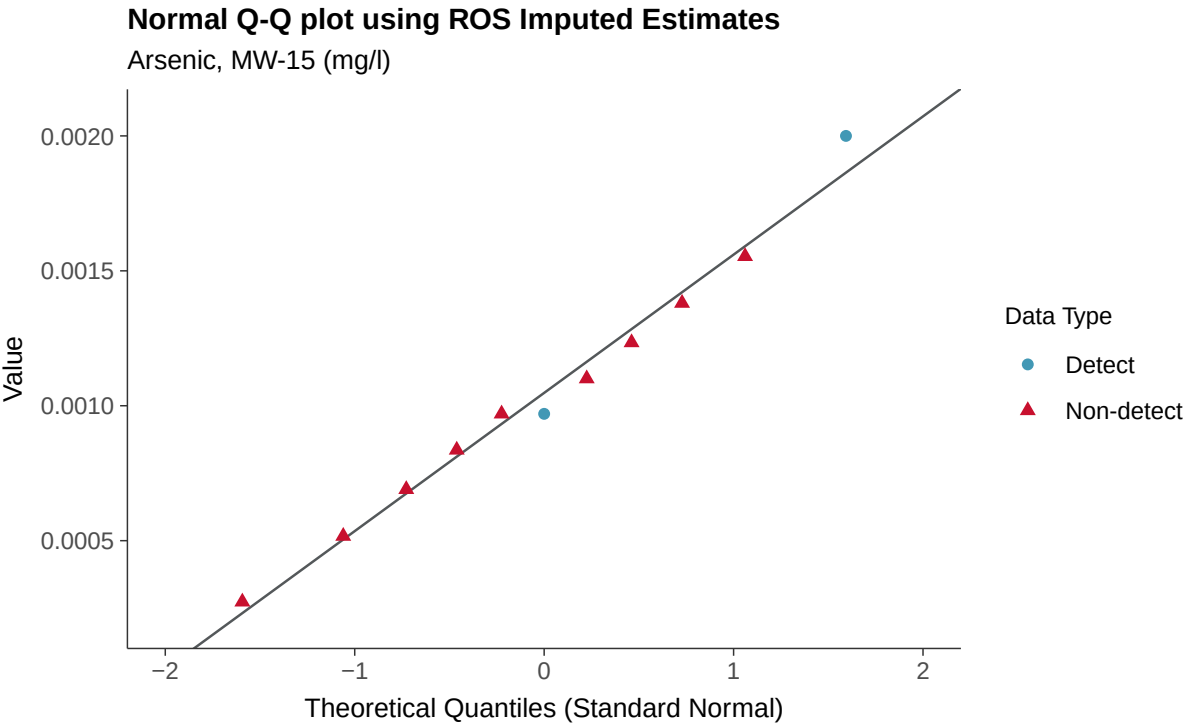


Appendix IV: Arsenic, MW-15

ID: 22_3_102



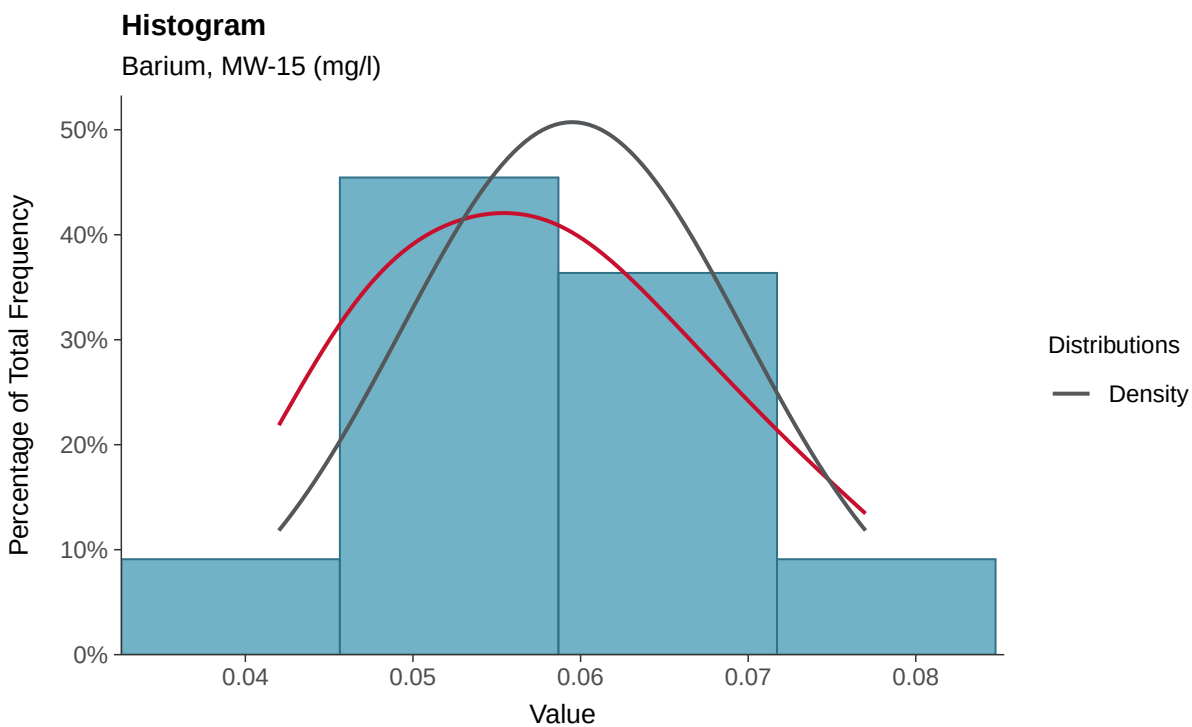
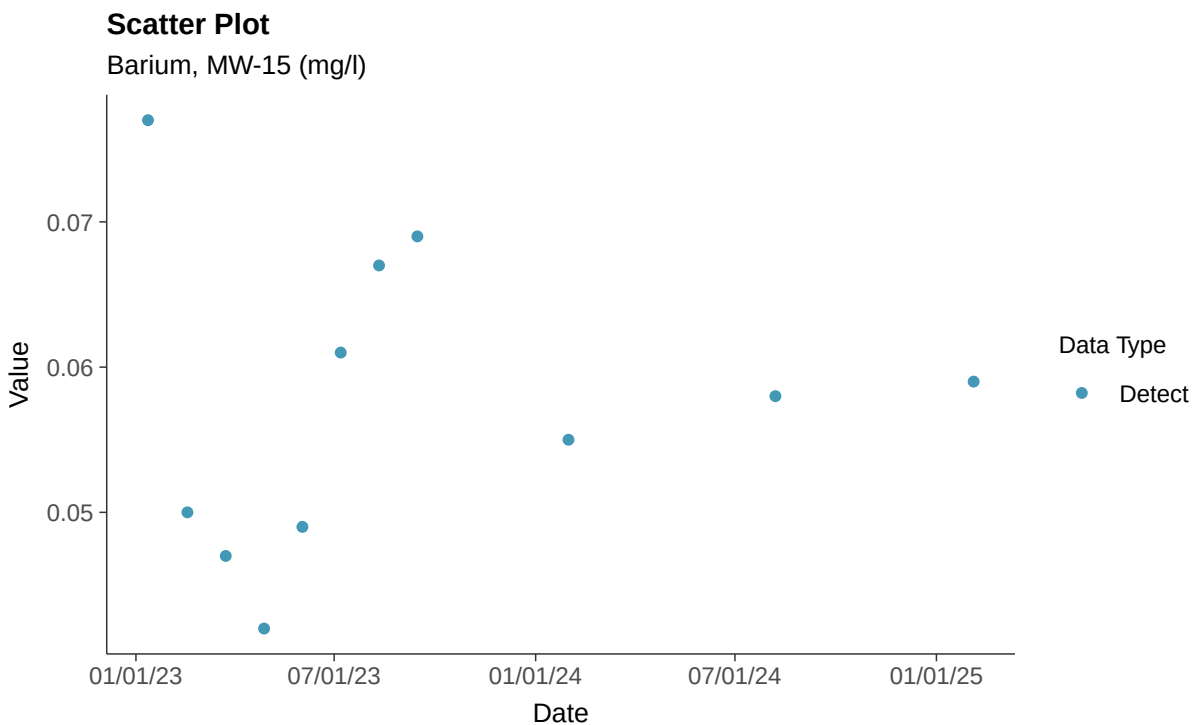


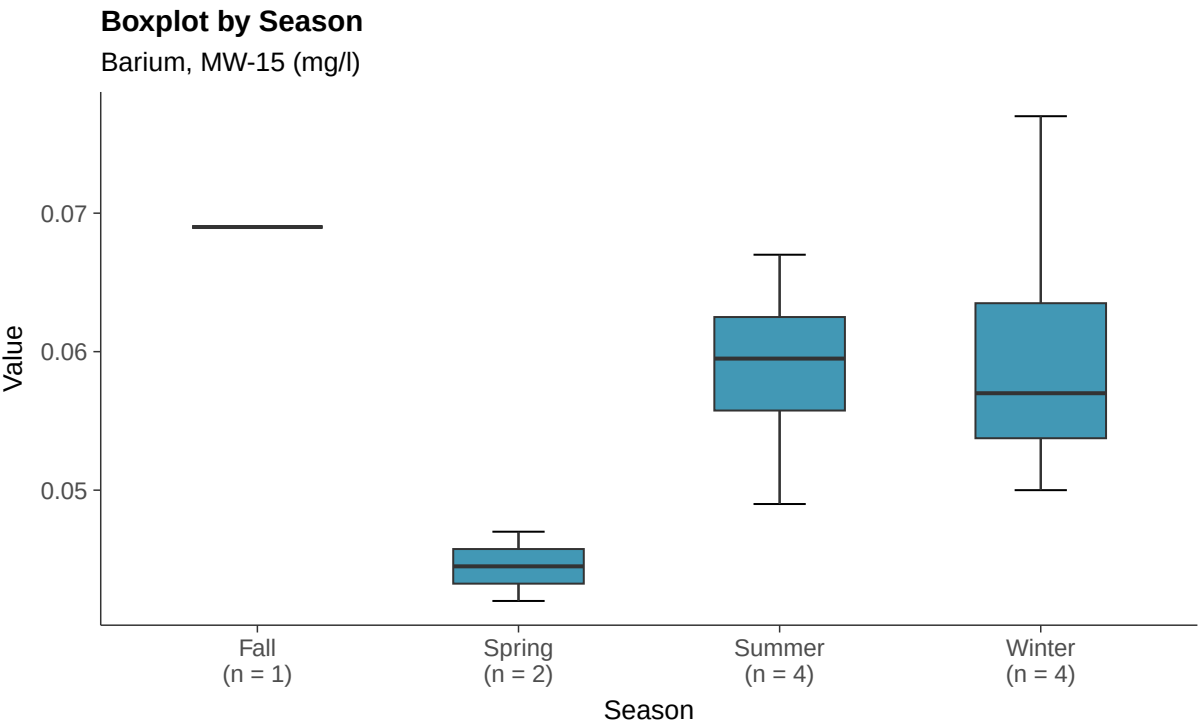
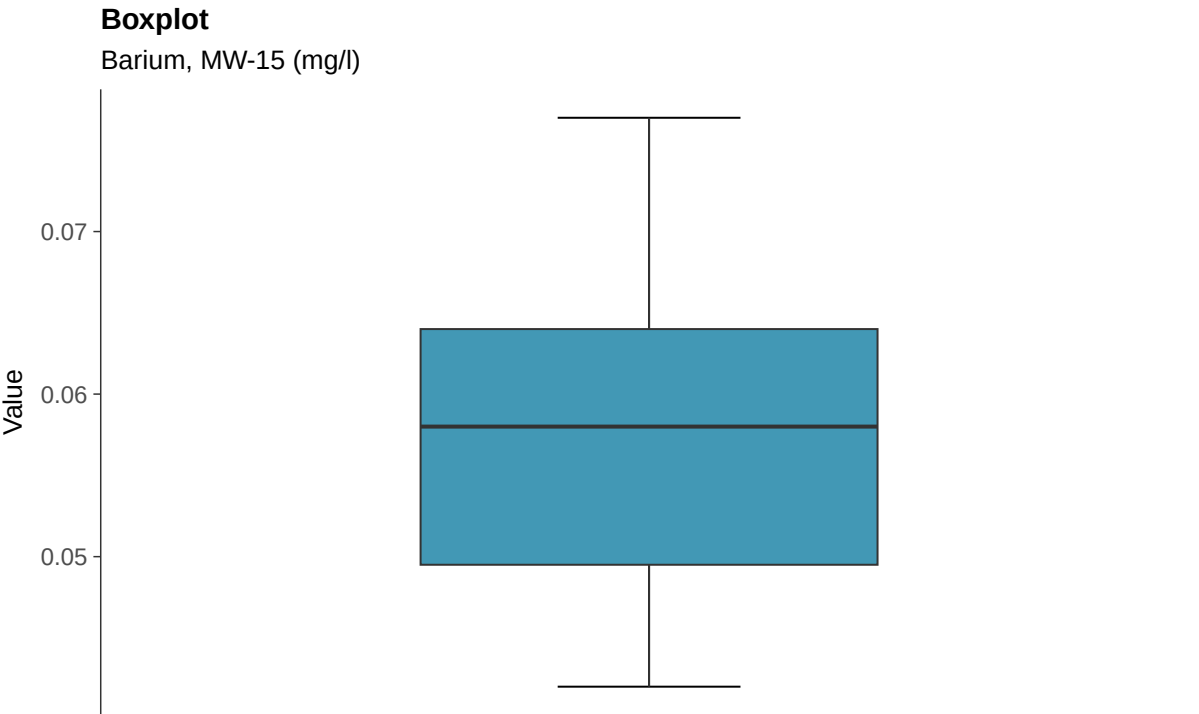


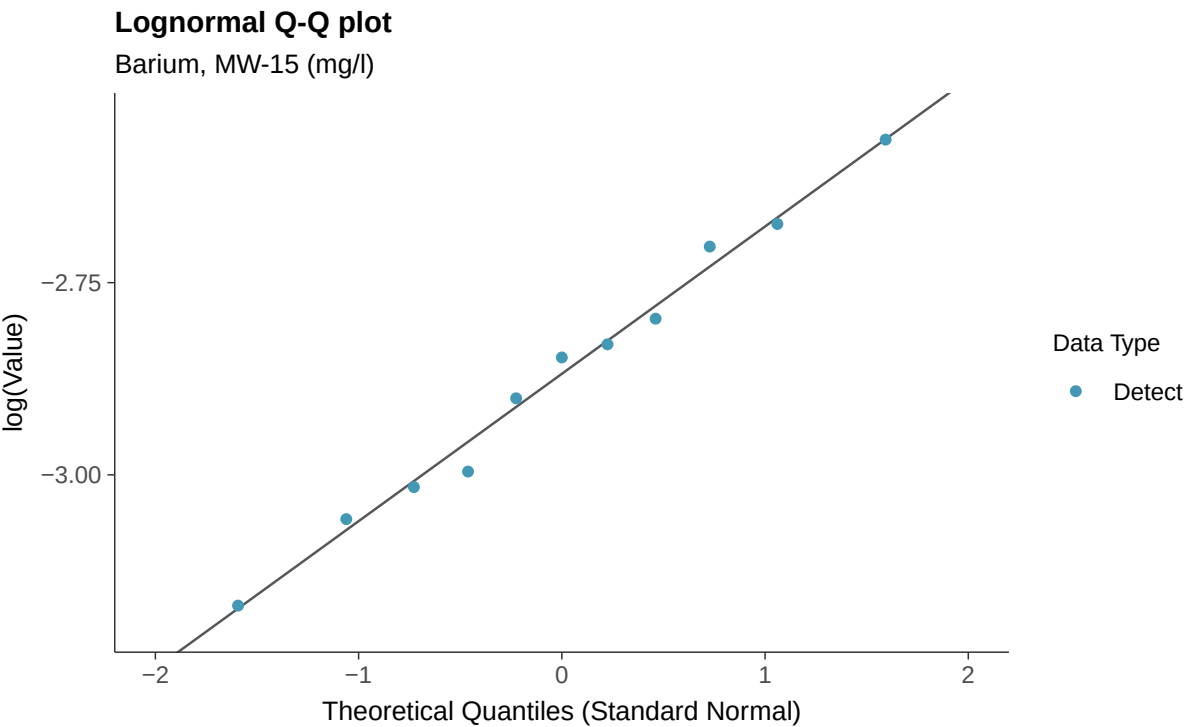
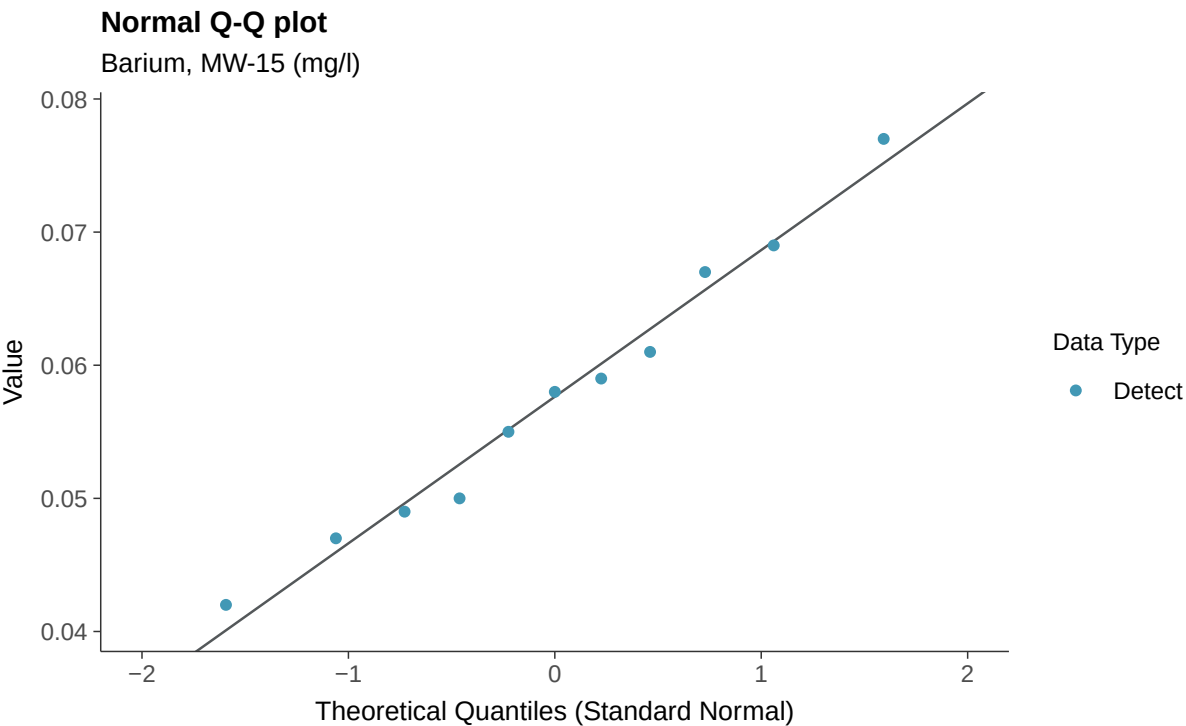


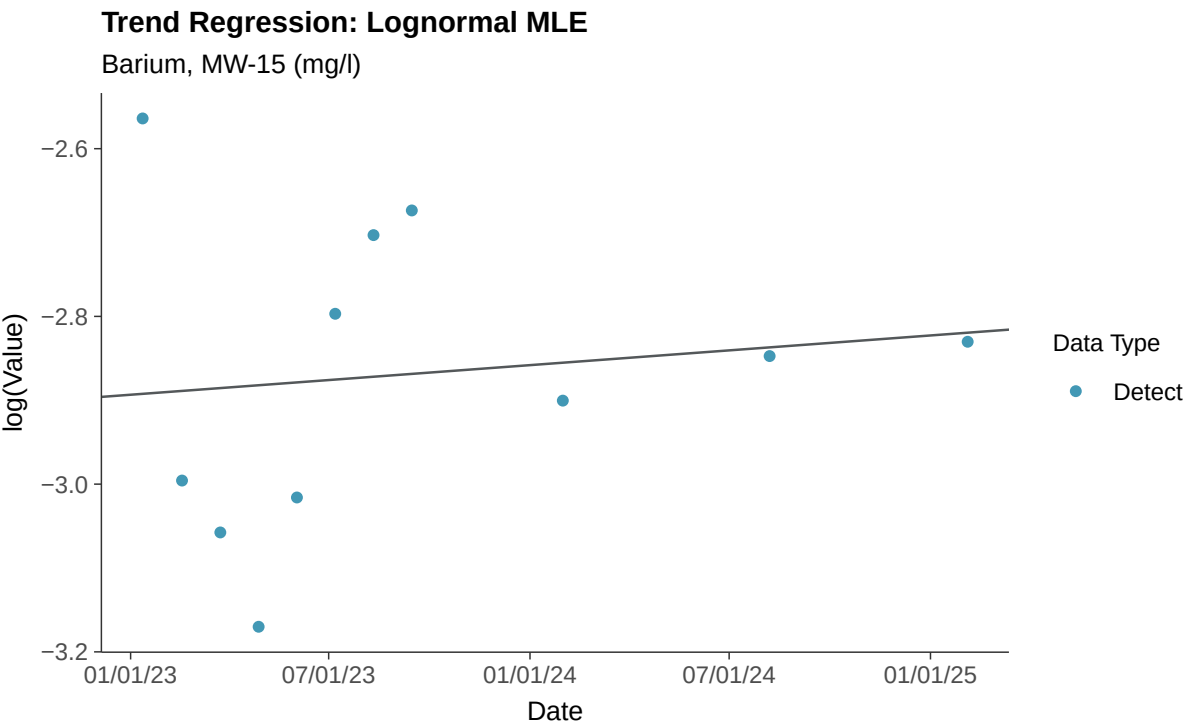
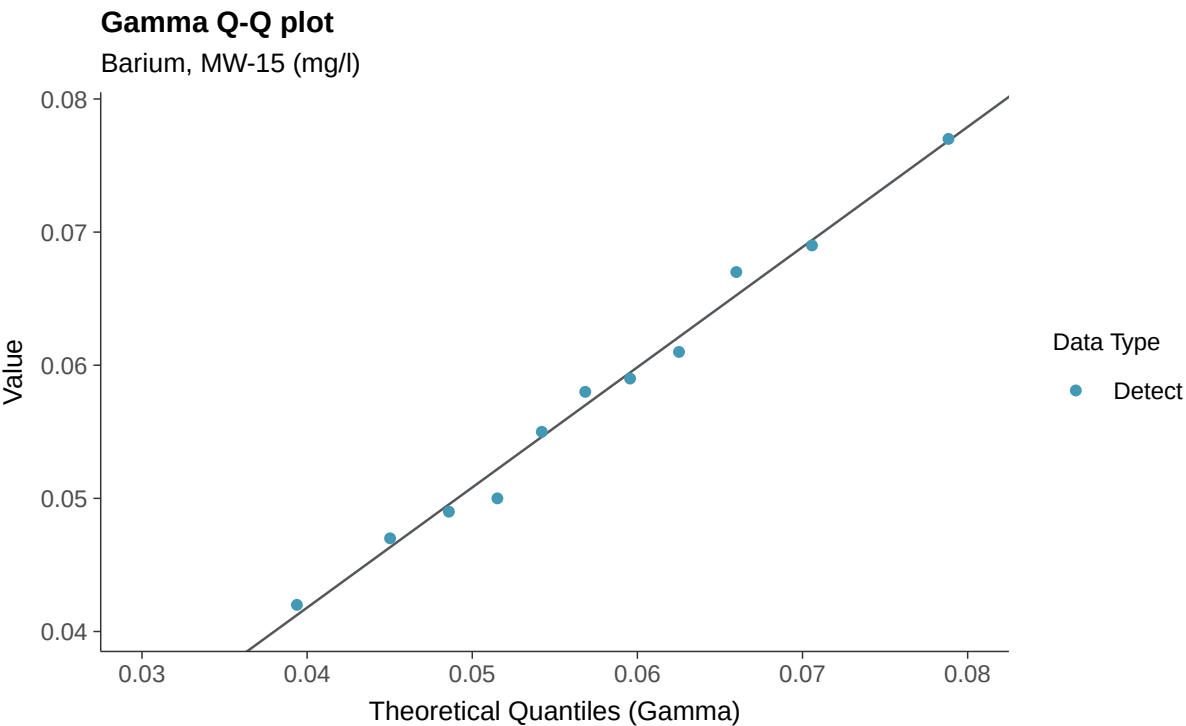
Appendix IV: Barium, MW-15

ID: 22_3_103





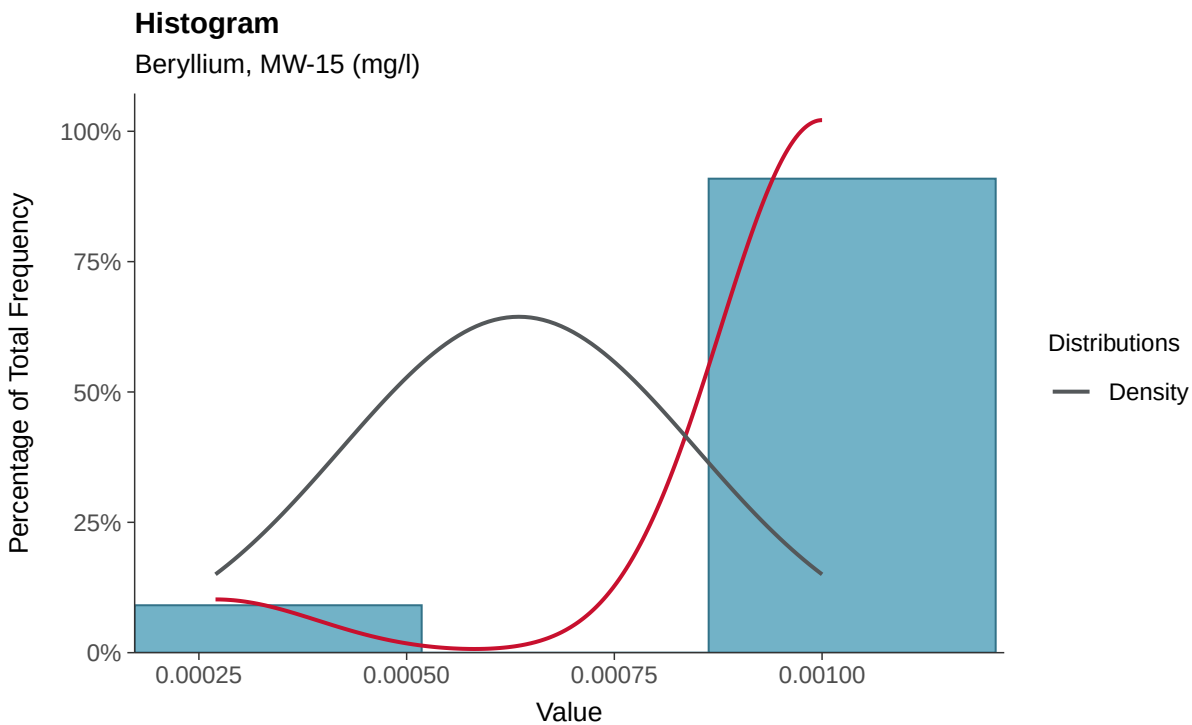
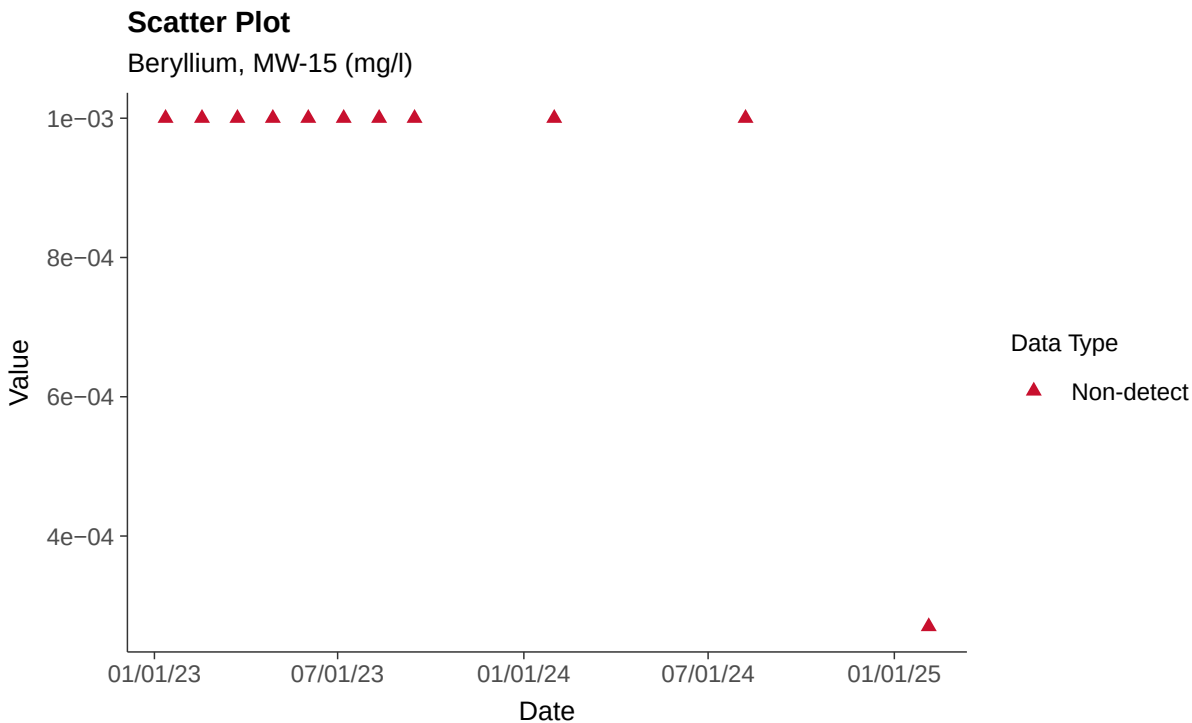


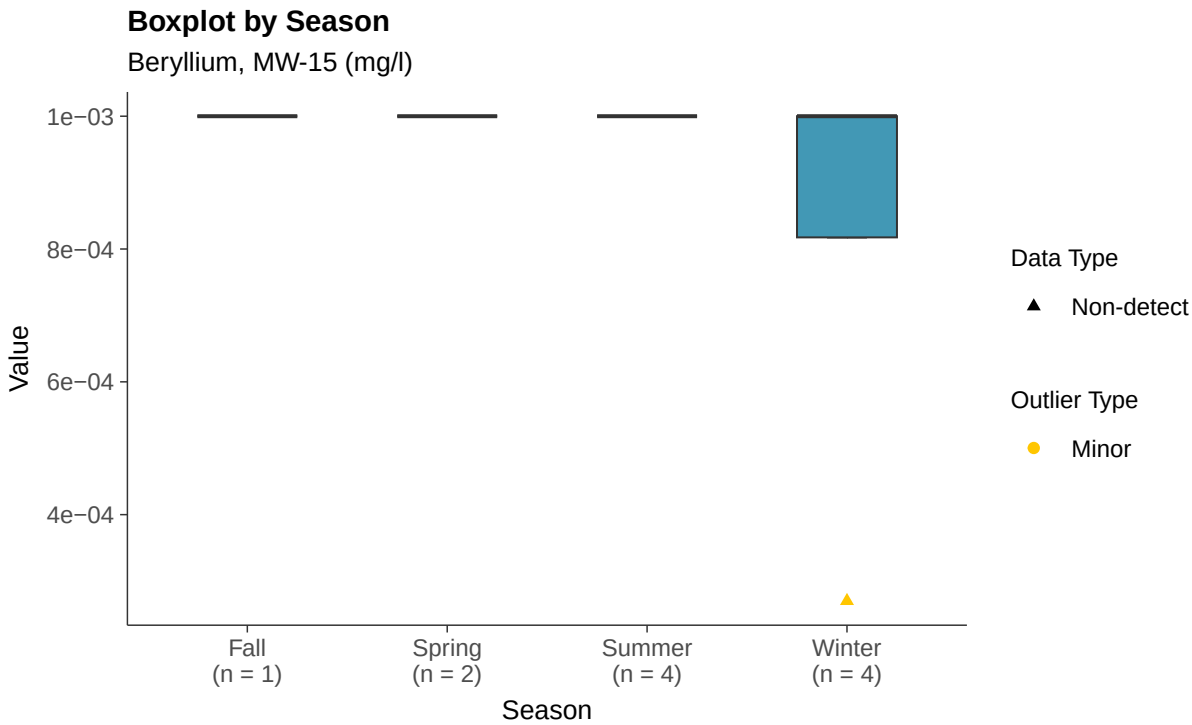
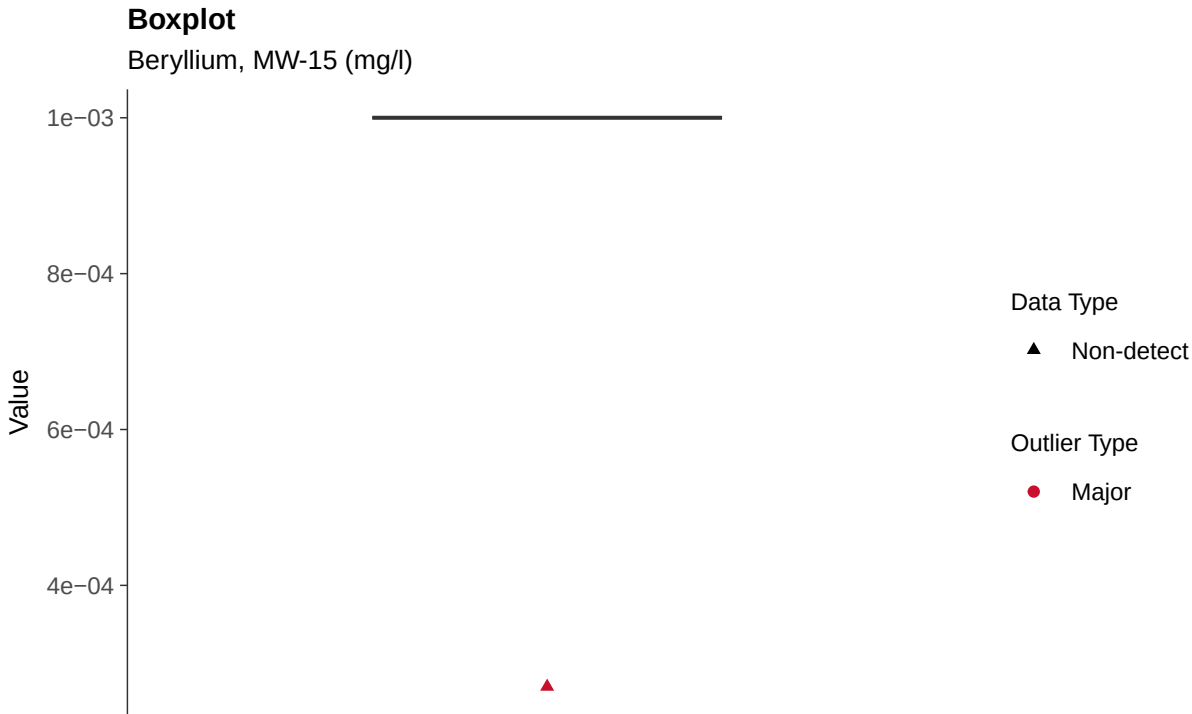


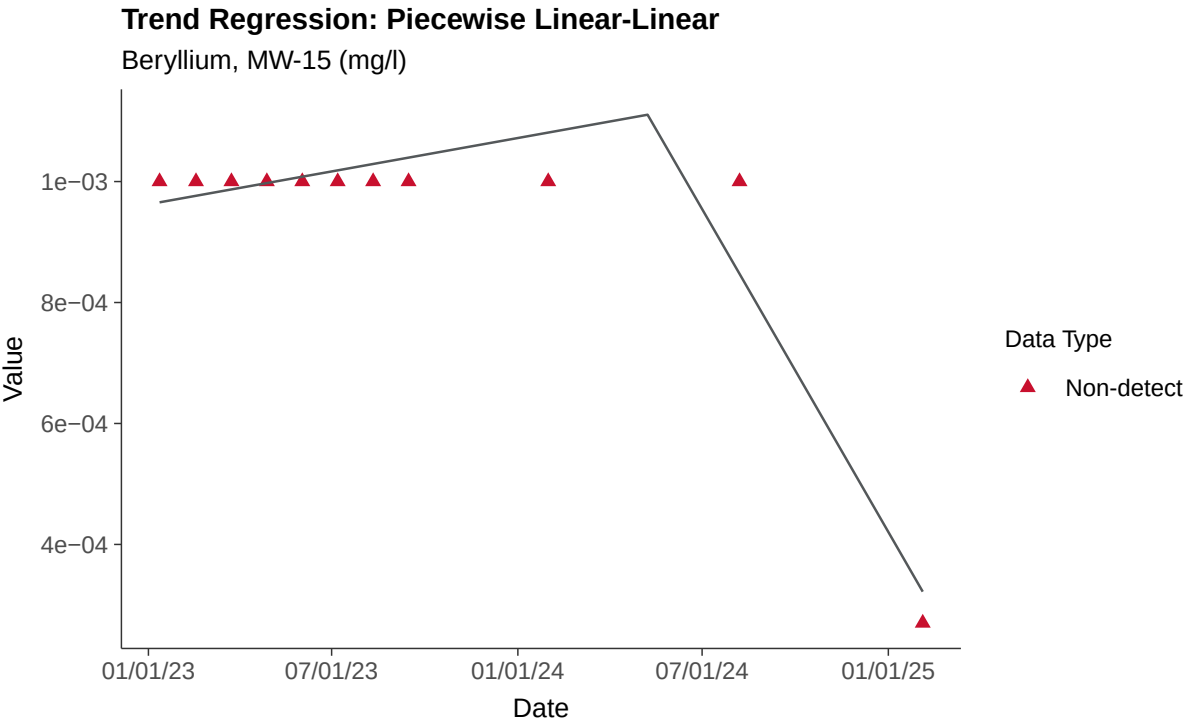


Appendix IV: Beryllium, MW-15

ID: 22_3_104



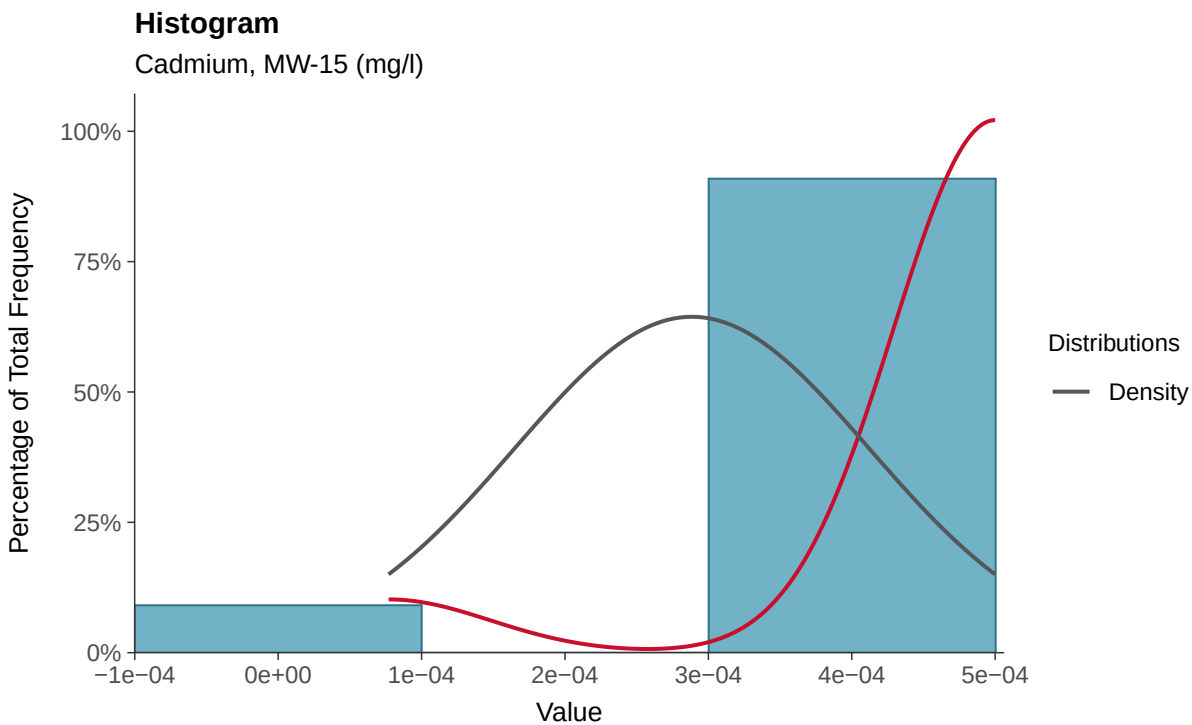
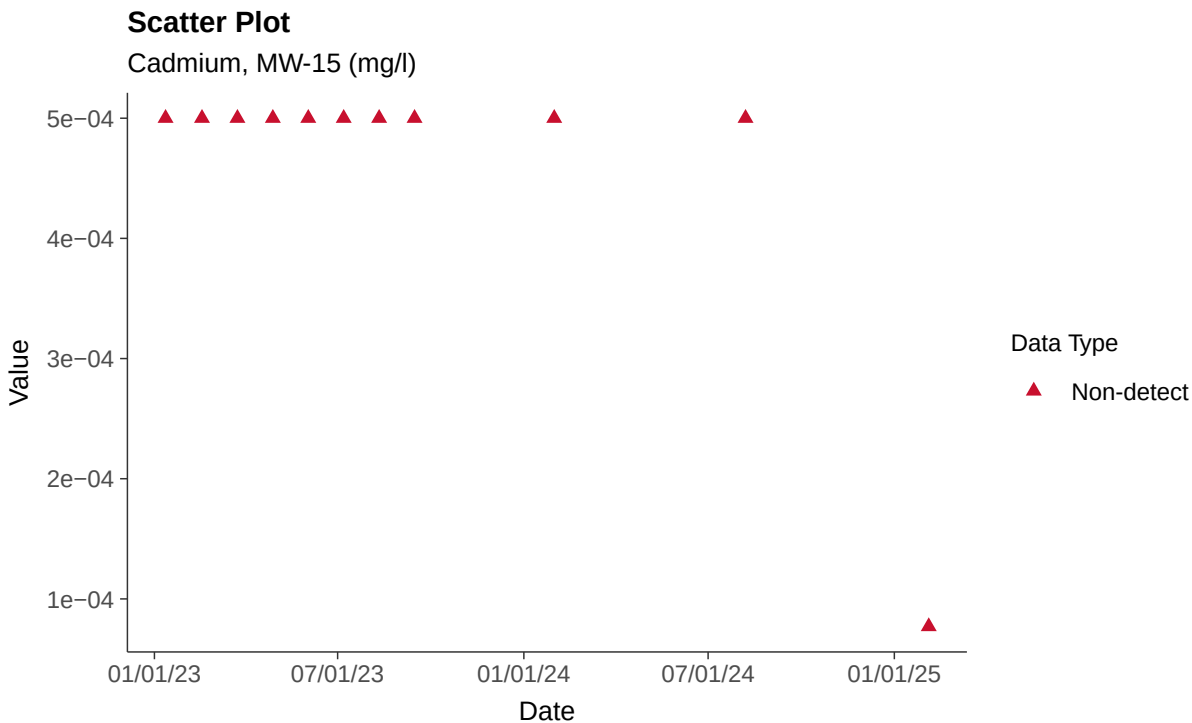


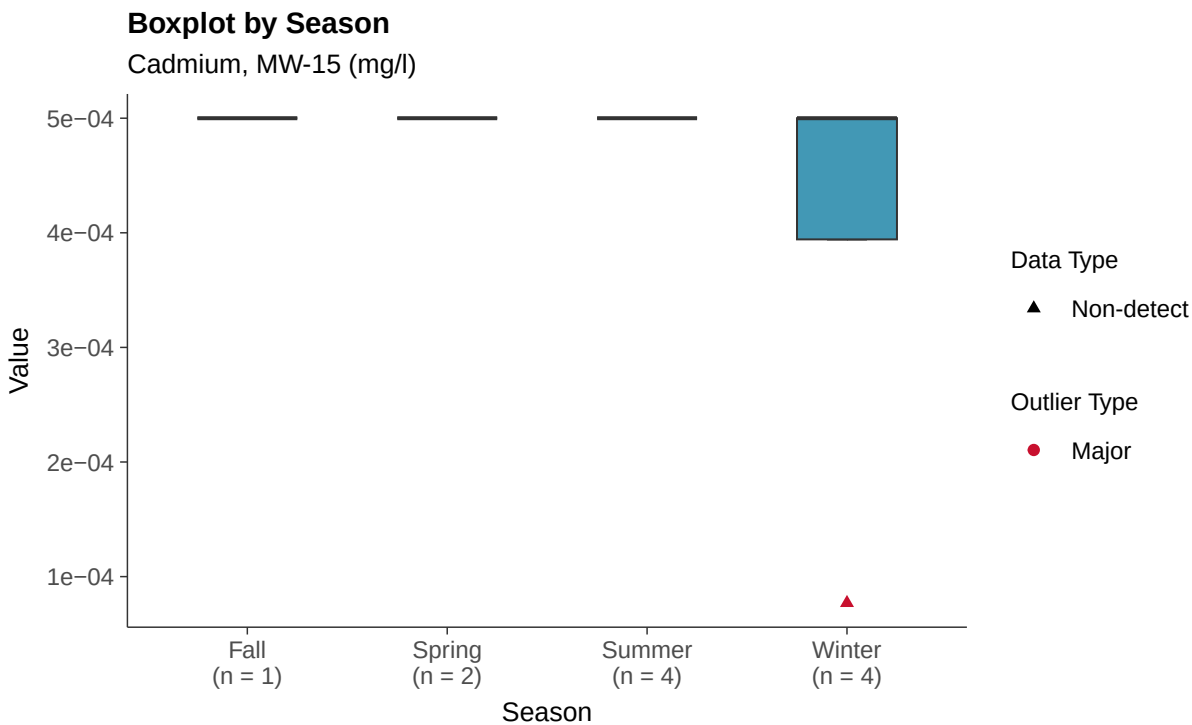
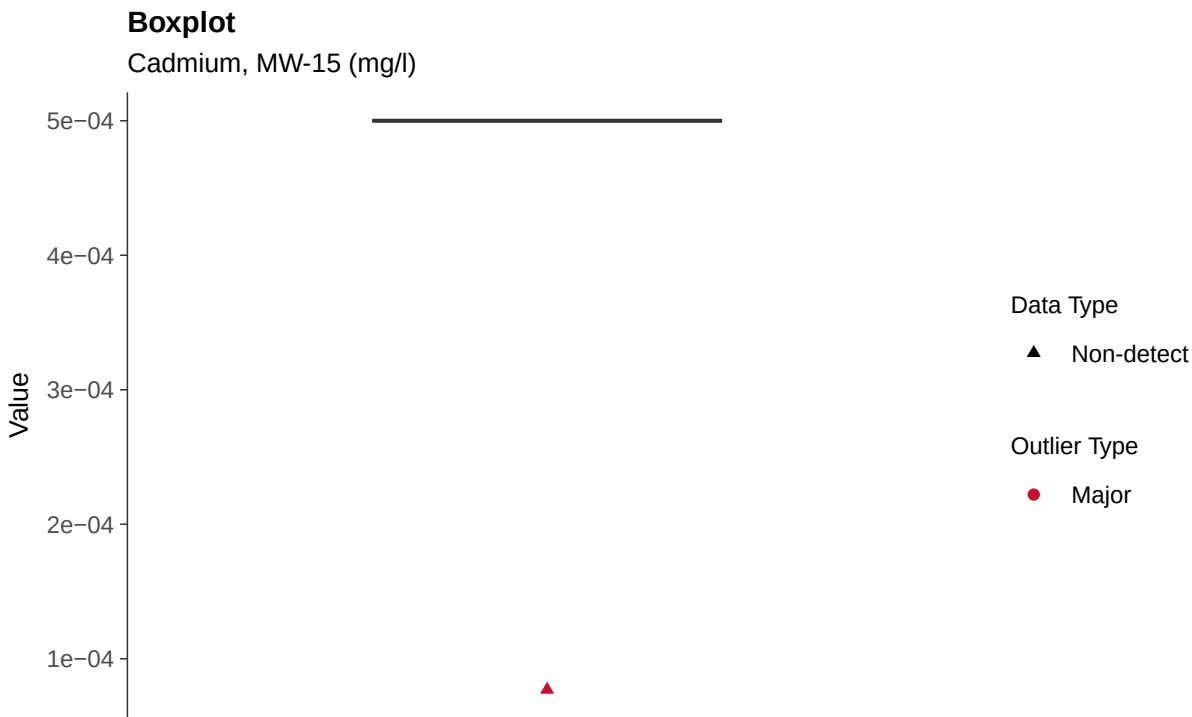




Appendix IV: Cadmium, MW-15

ID: 22_3_106

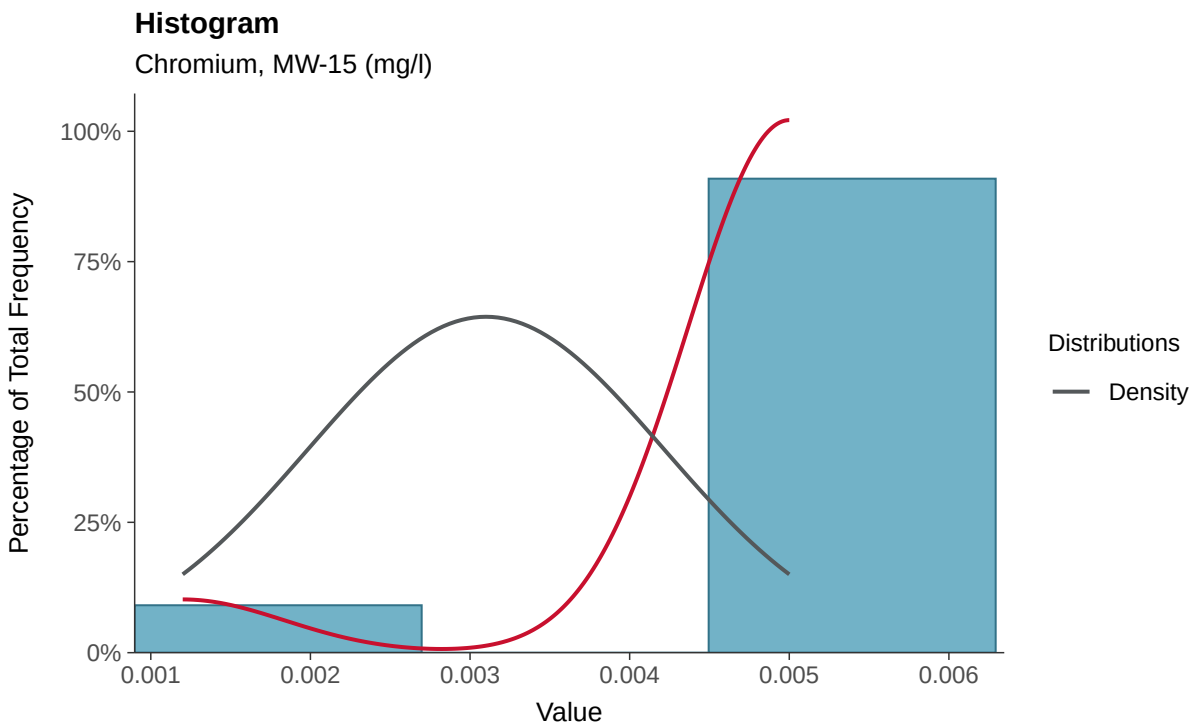
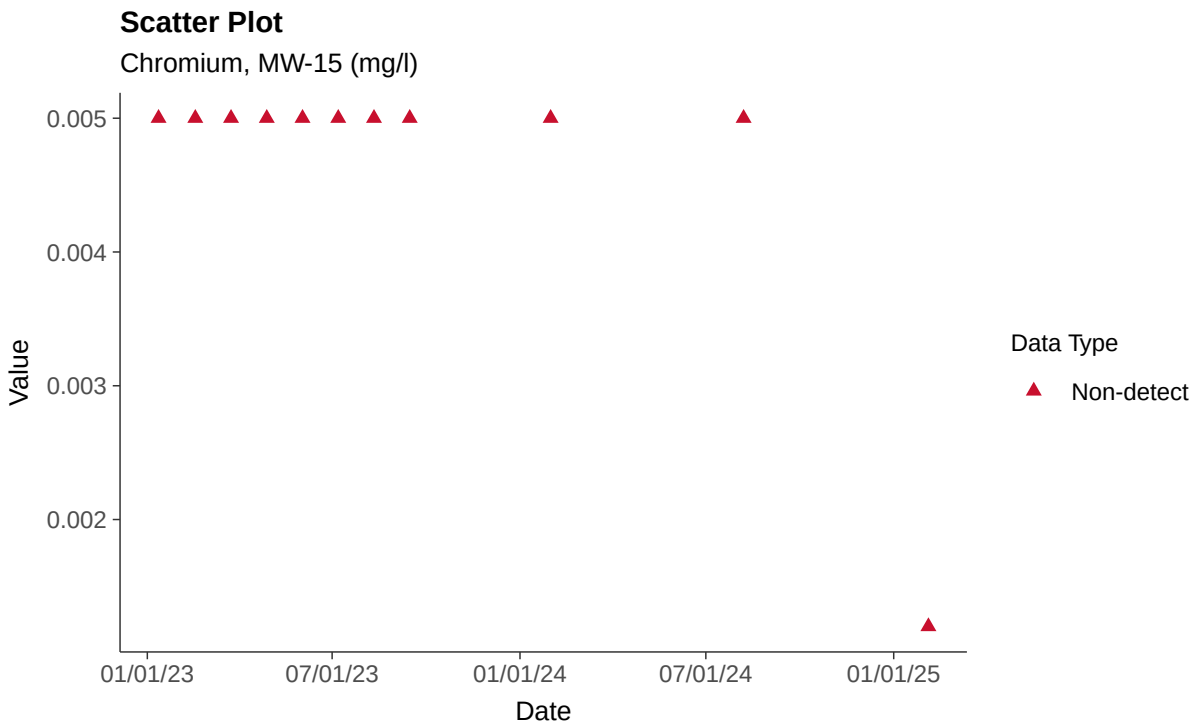


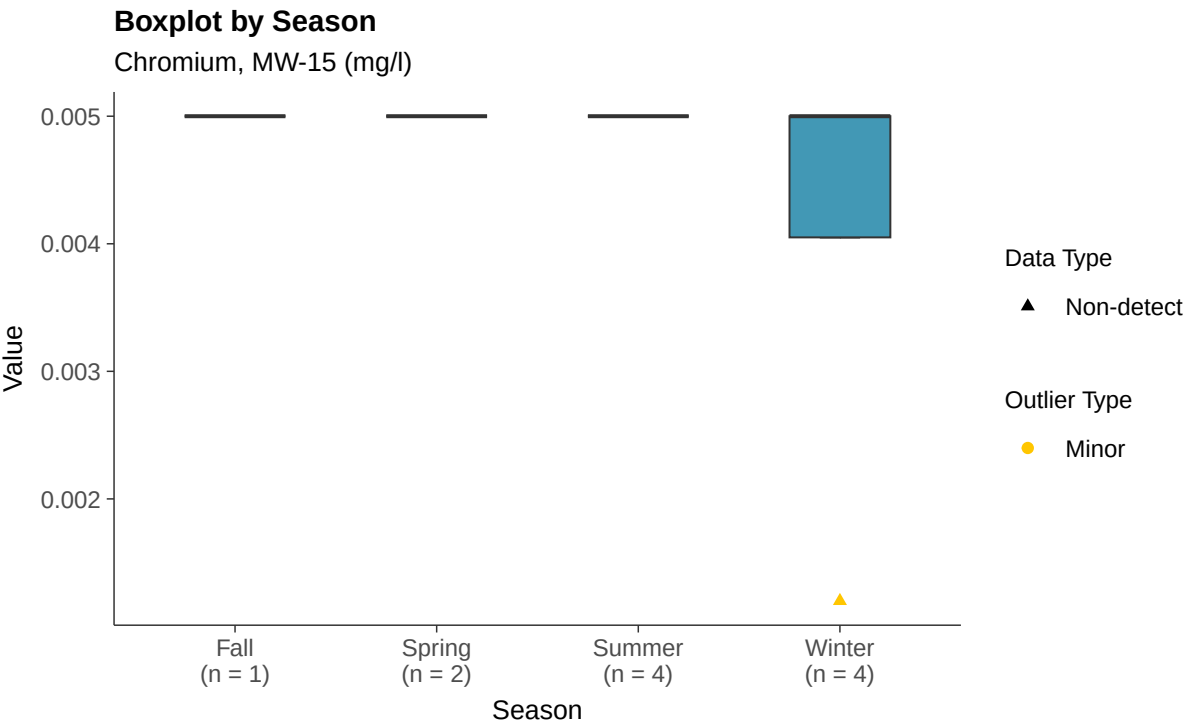
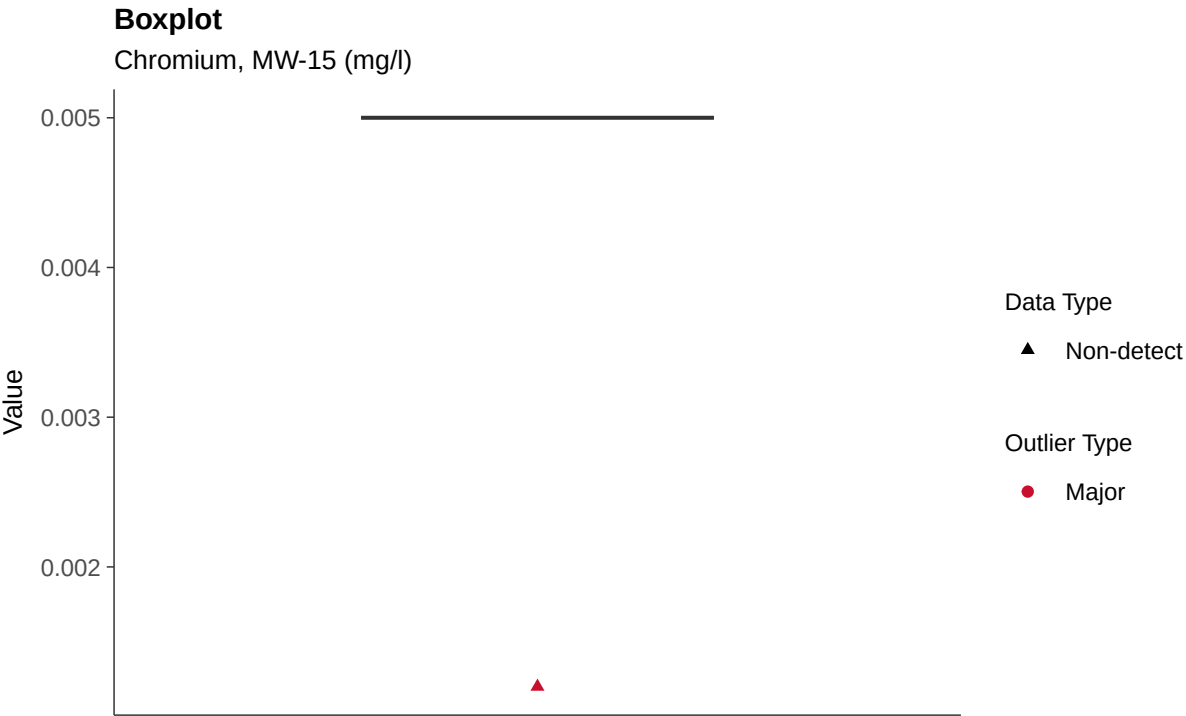




Appendix IV: Chromium, MW-15

ID: 22_3_109

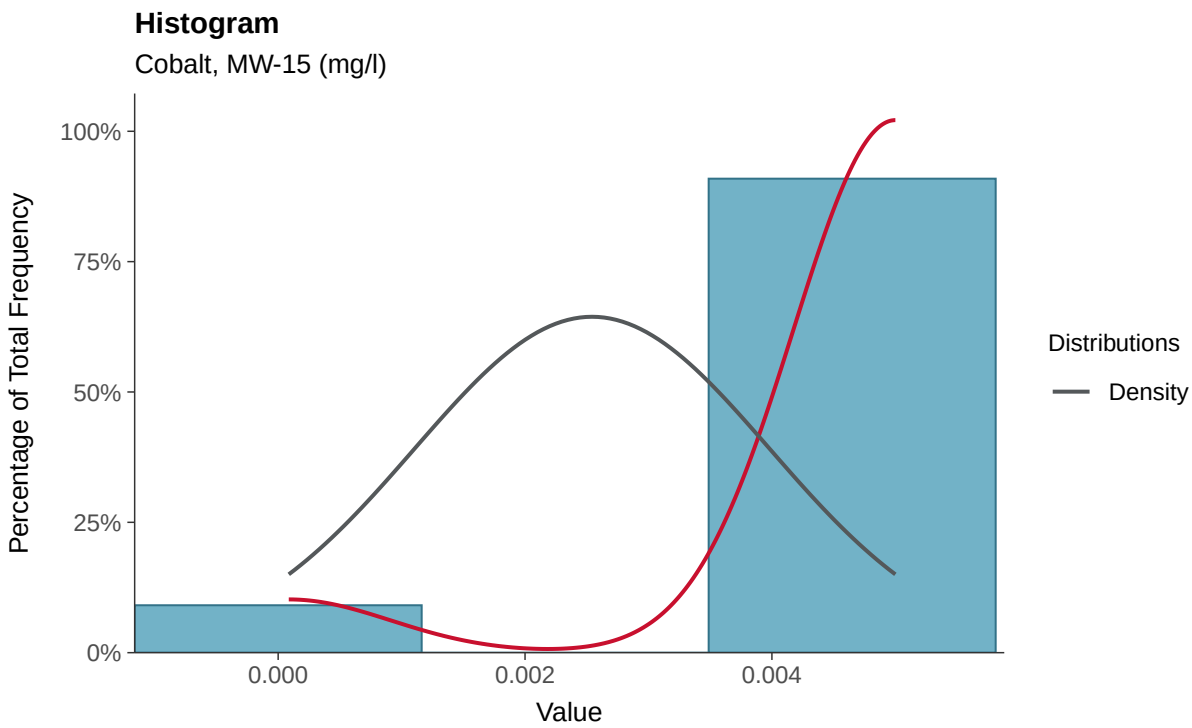
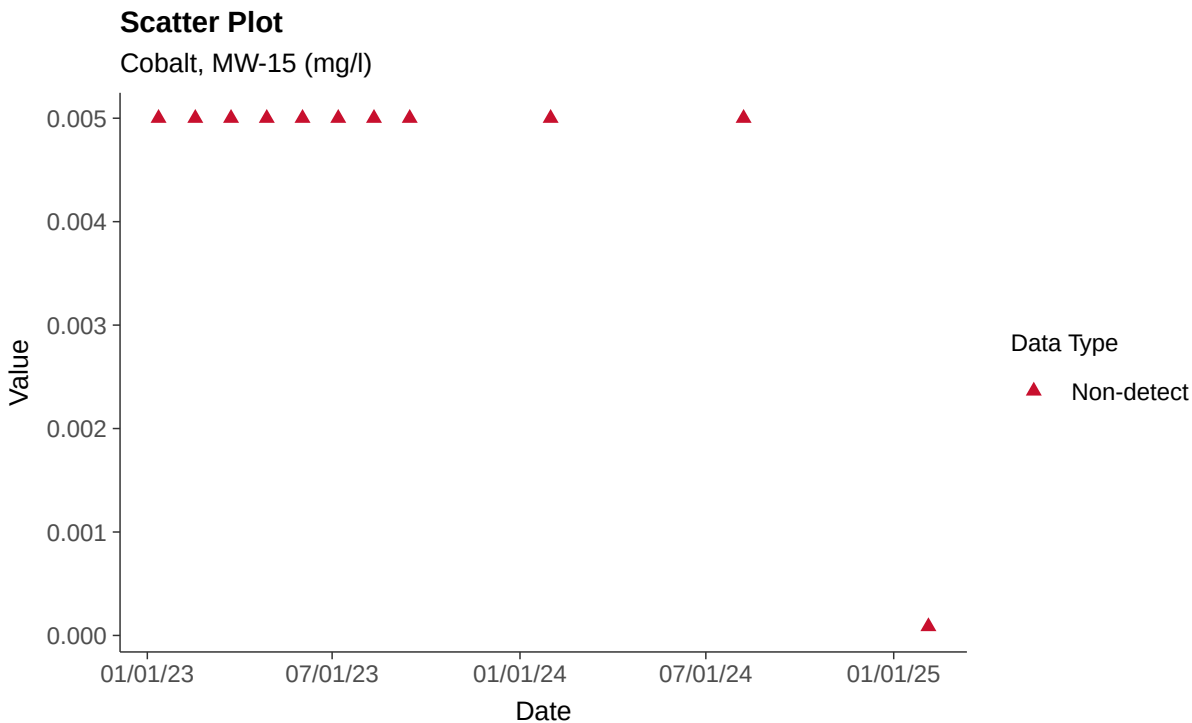


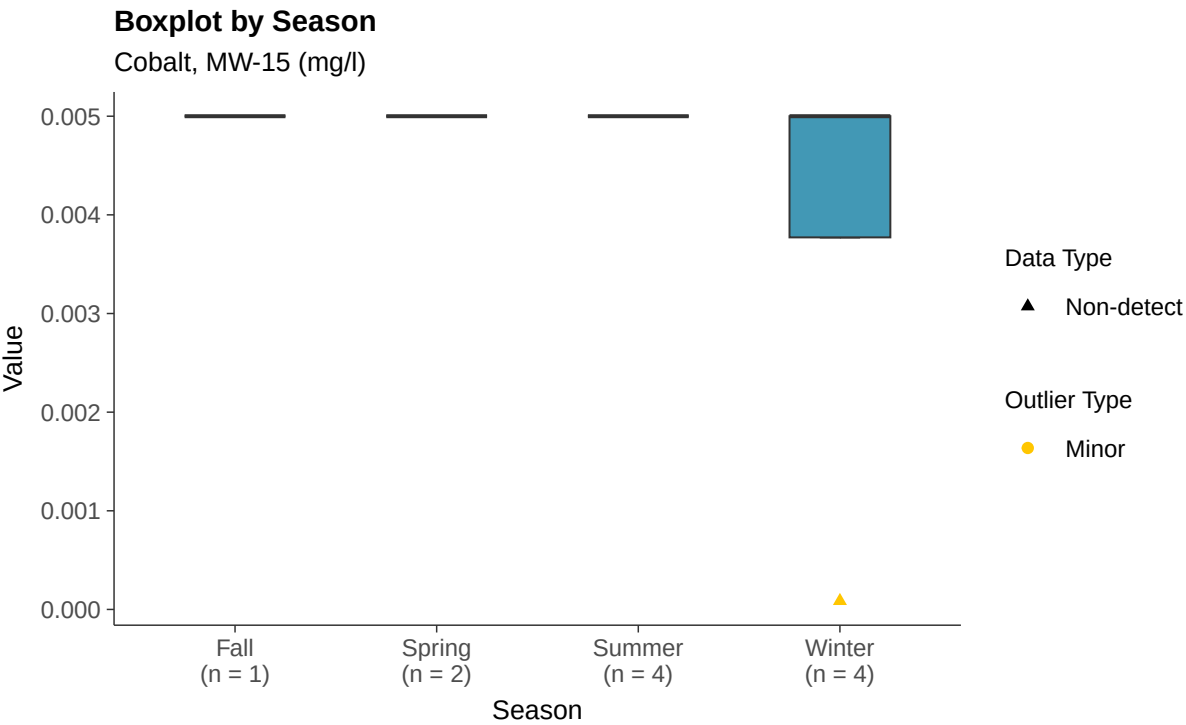
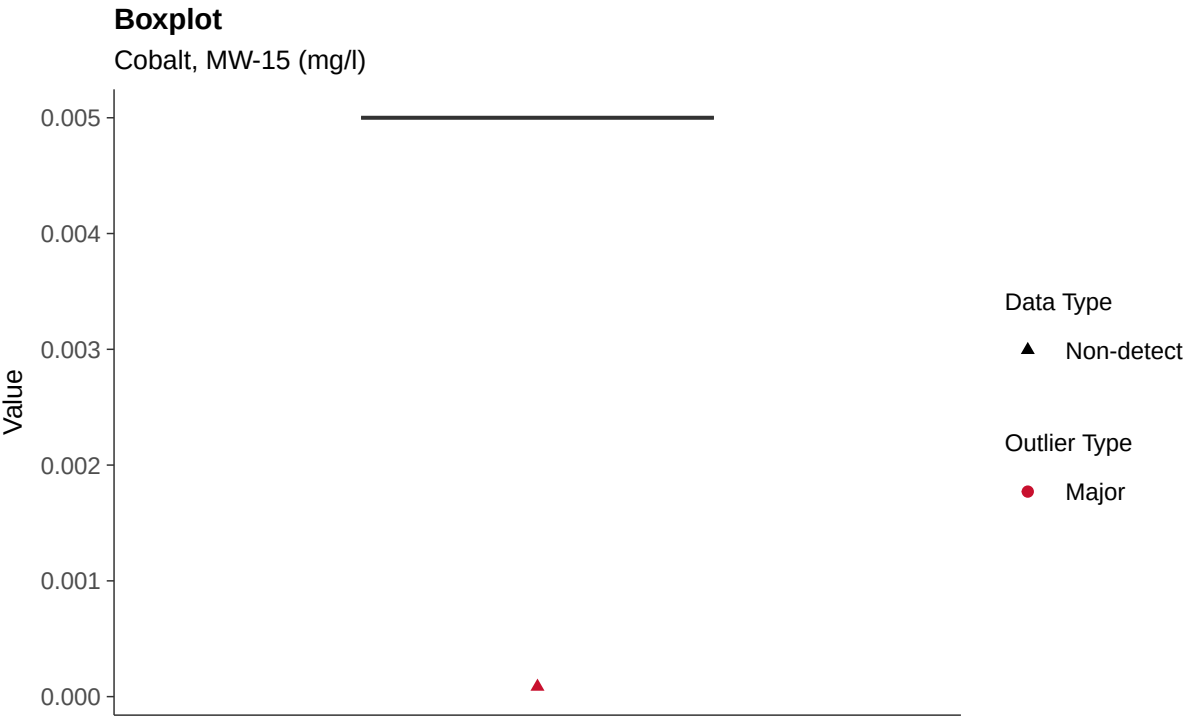




Appendix IV: Cobalt, MW-15

ID: 22_3_110

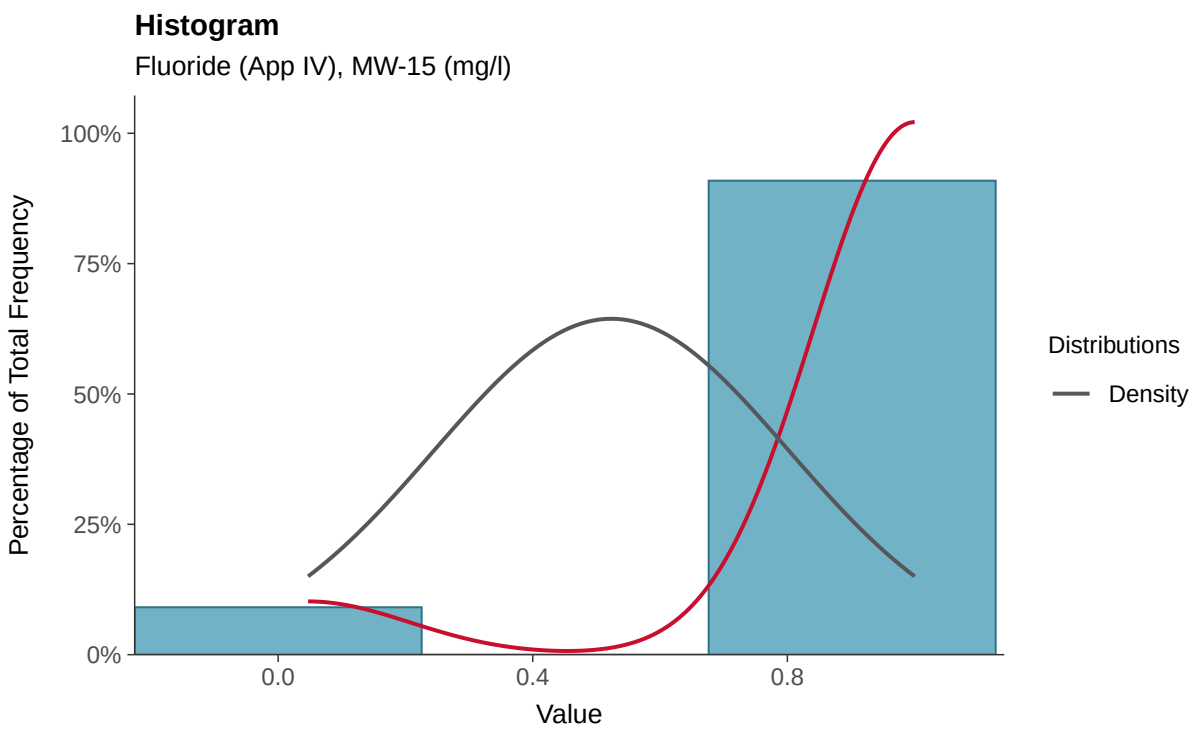
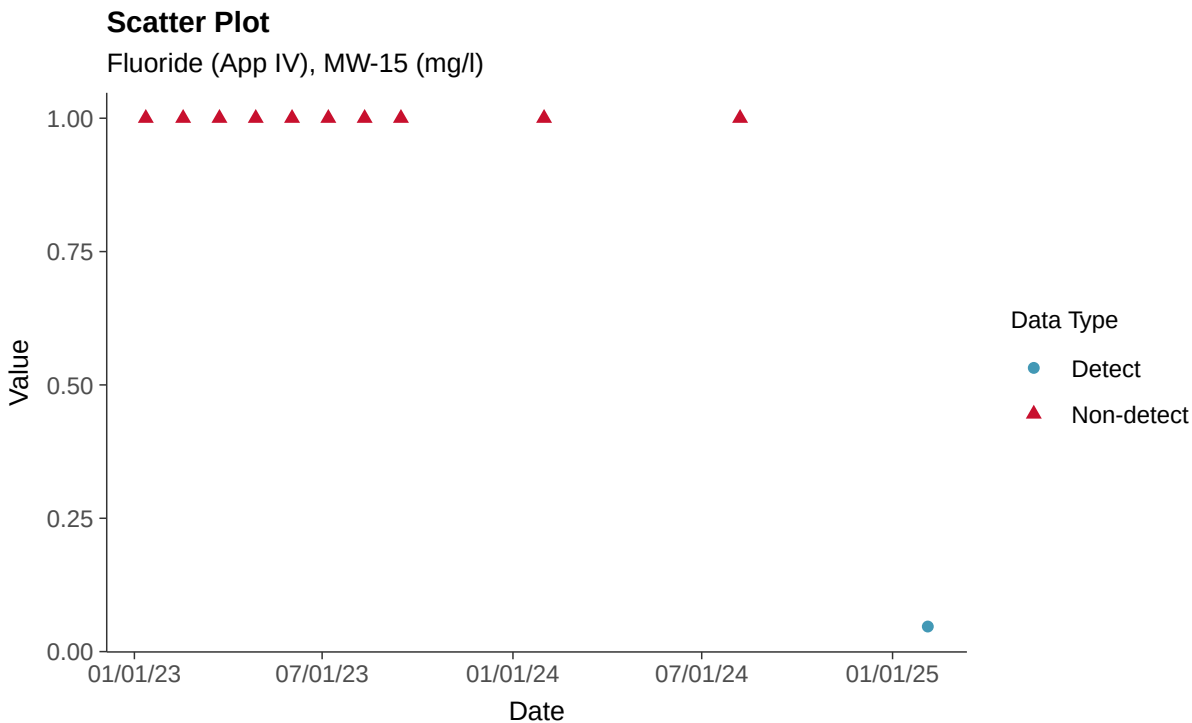


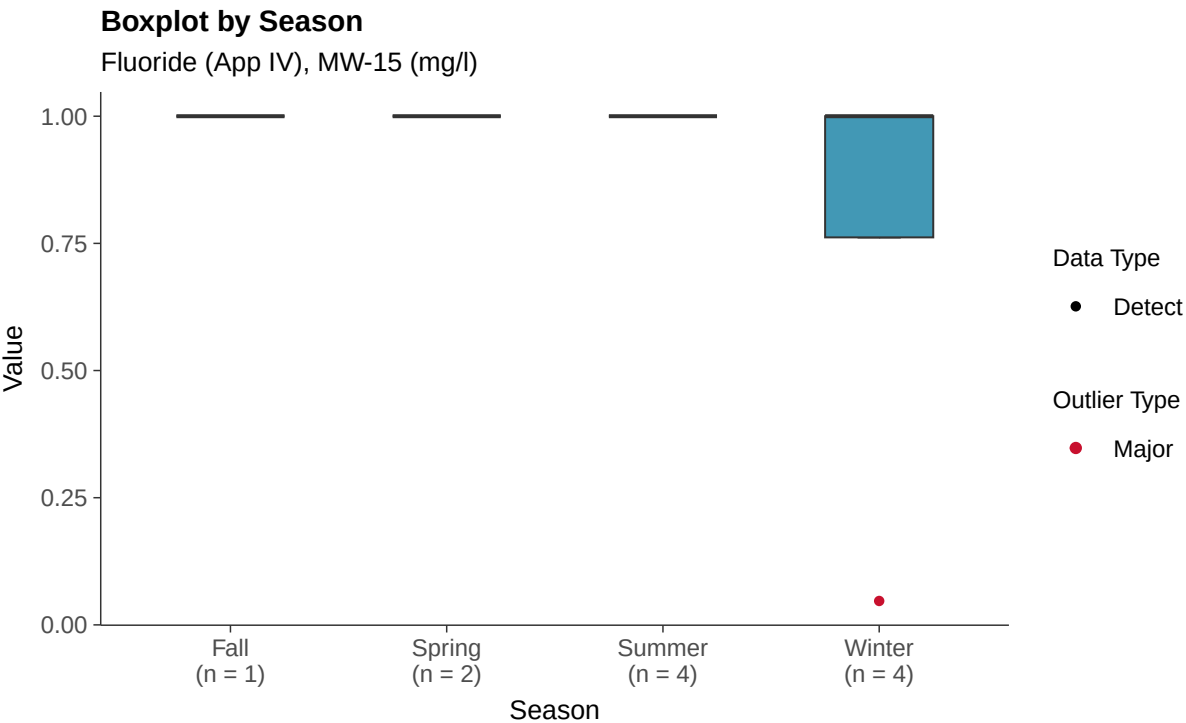
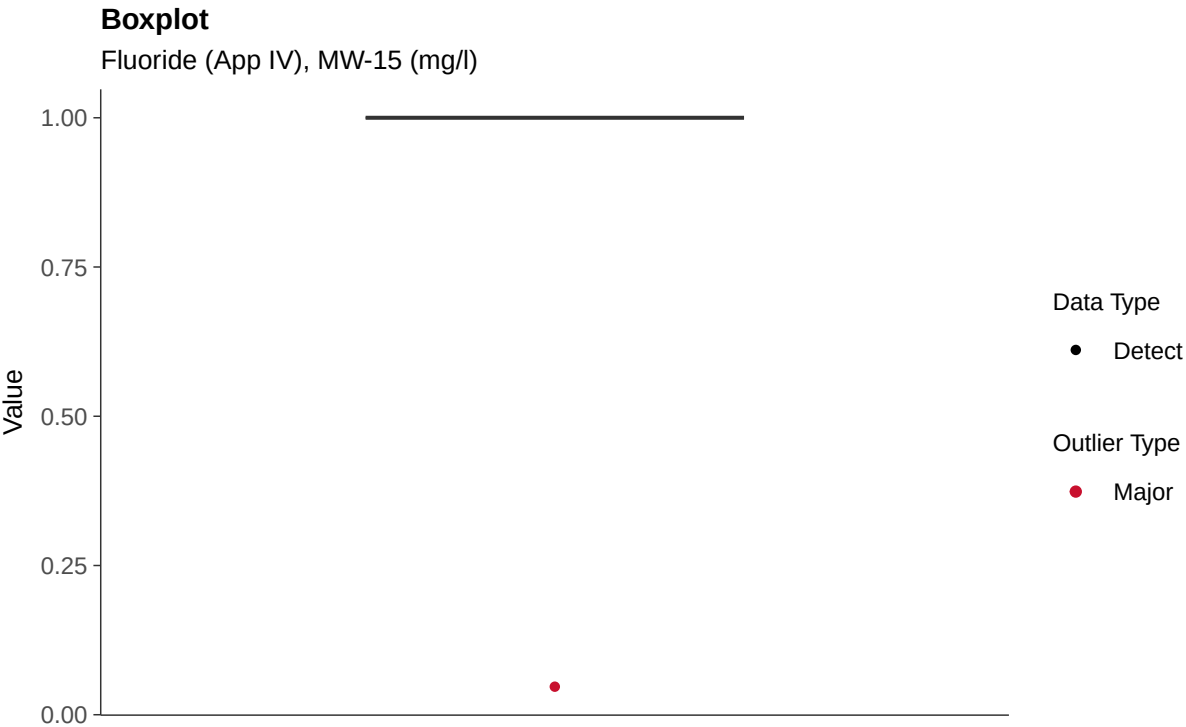




Appendix IV: Fluoride (App IV), MW-15

ID: 22_3_113

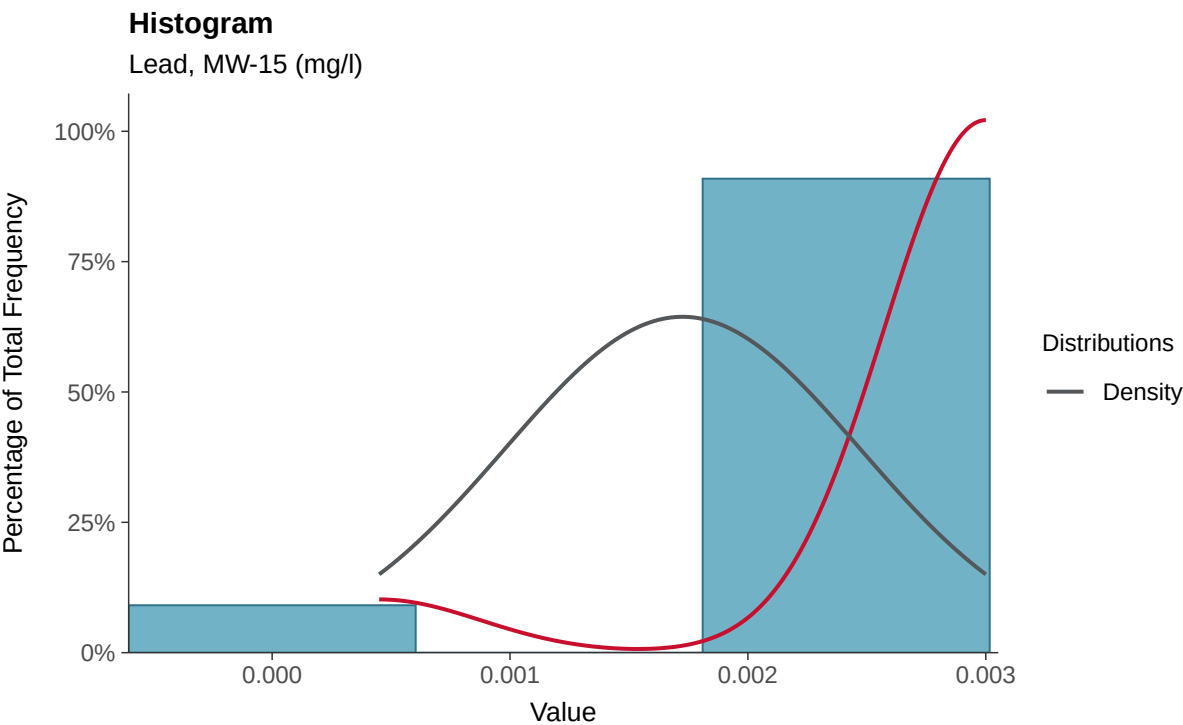
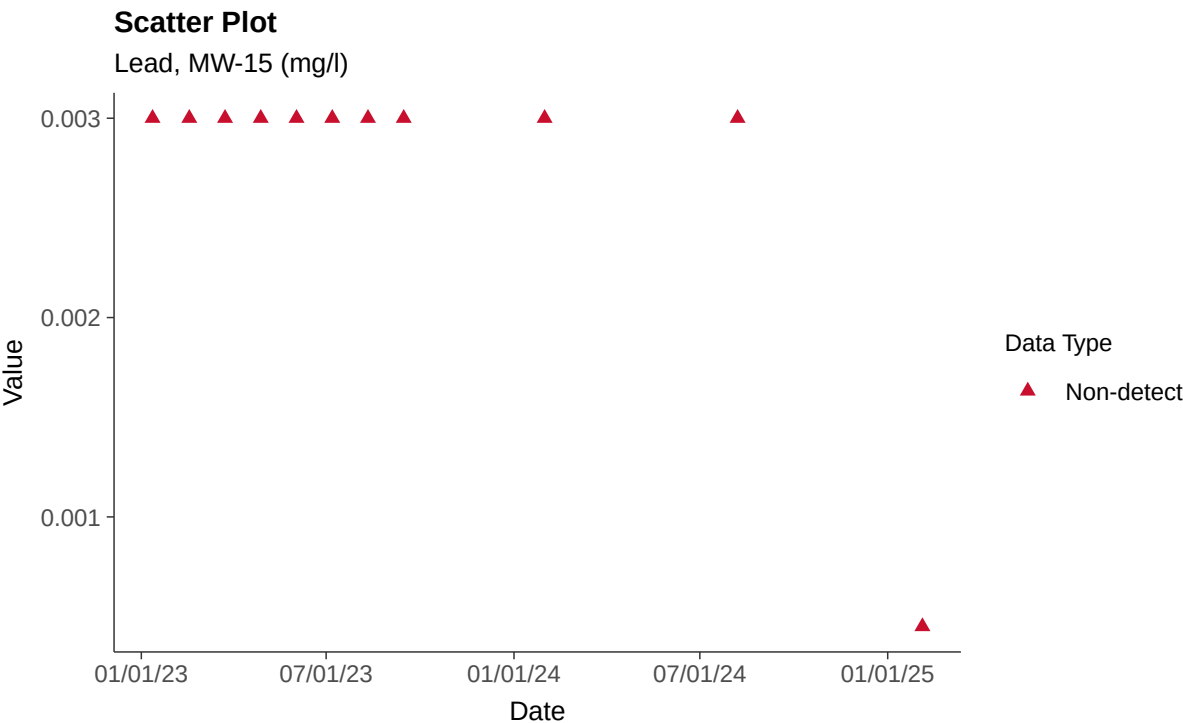


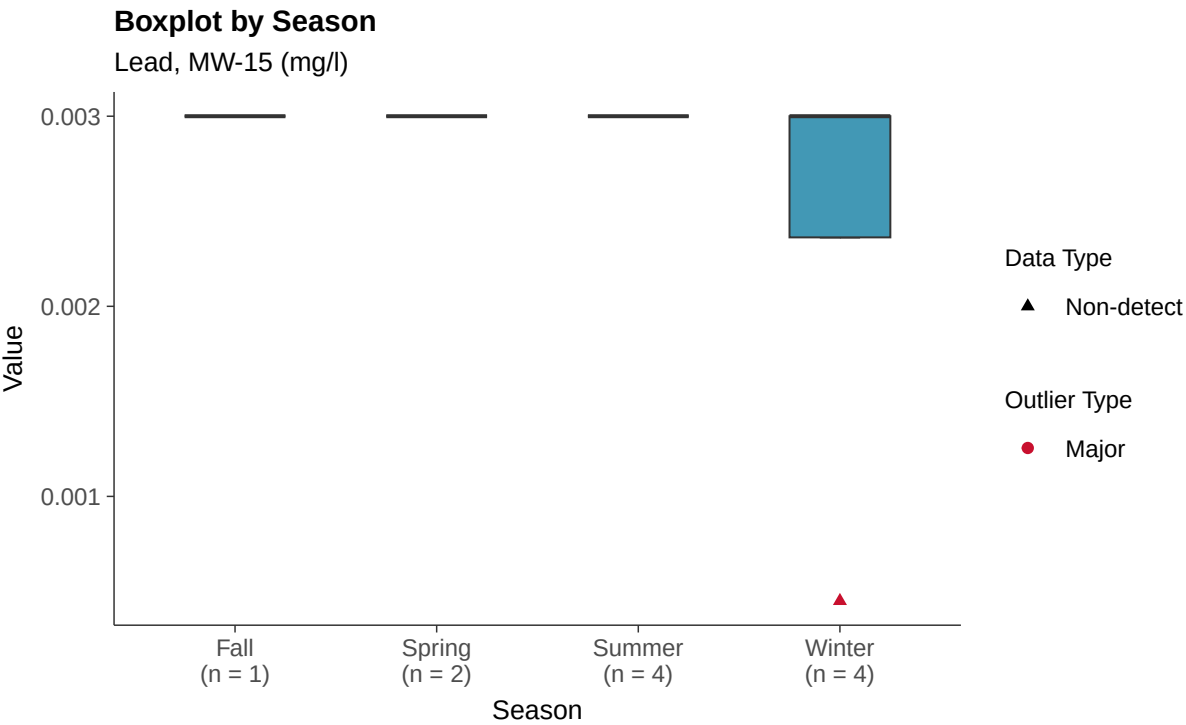
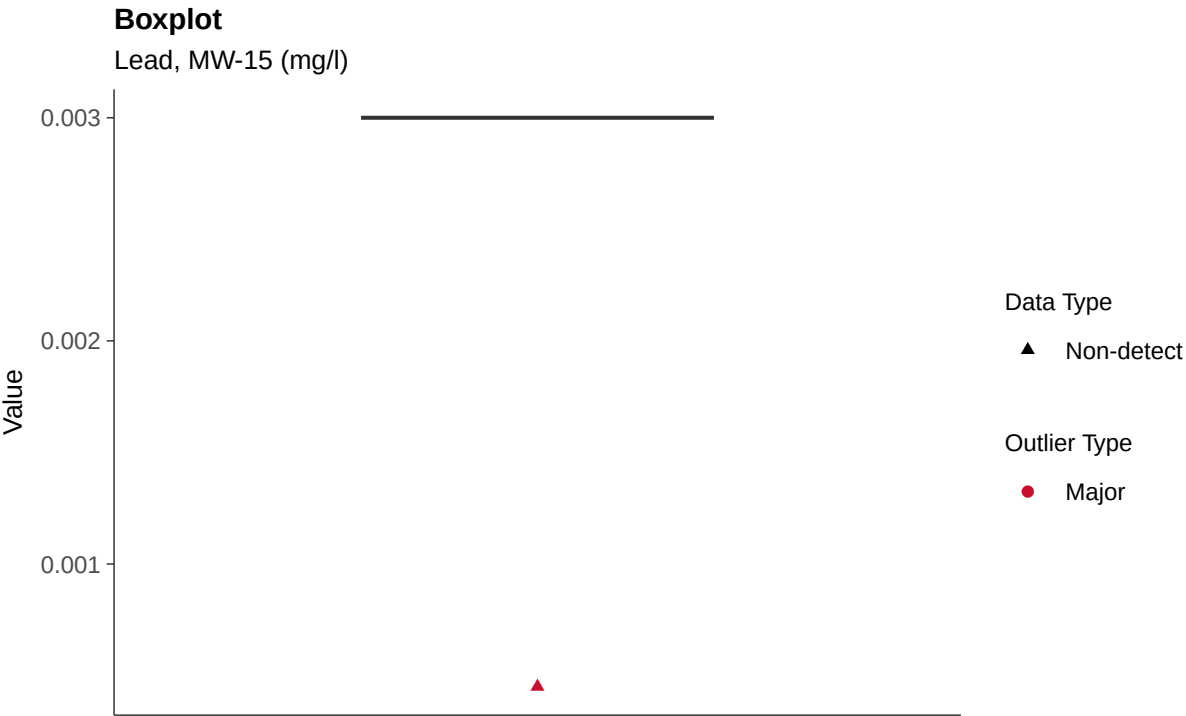




Appendix IV: Lead, MW-15

ID: 22_3_115

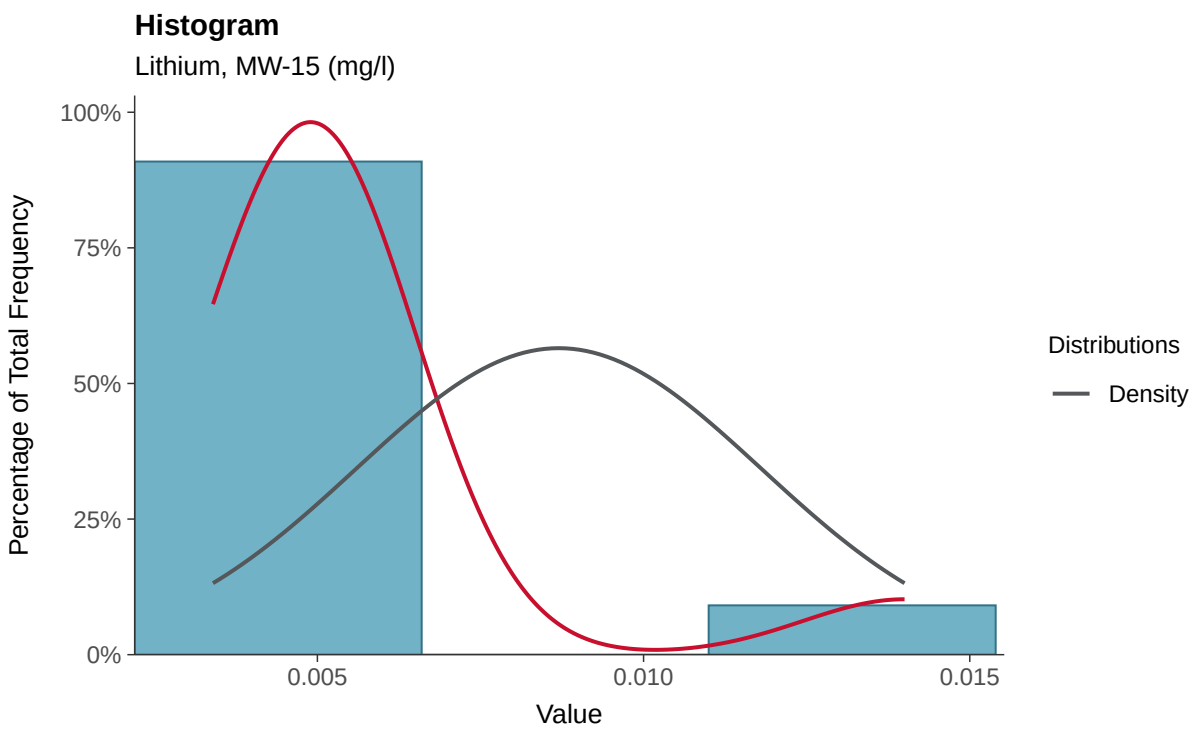
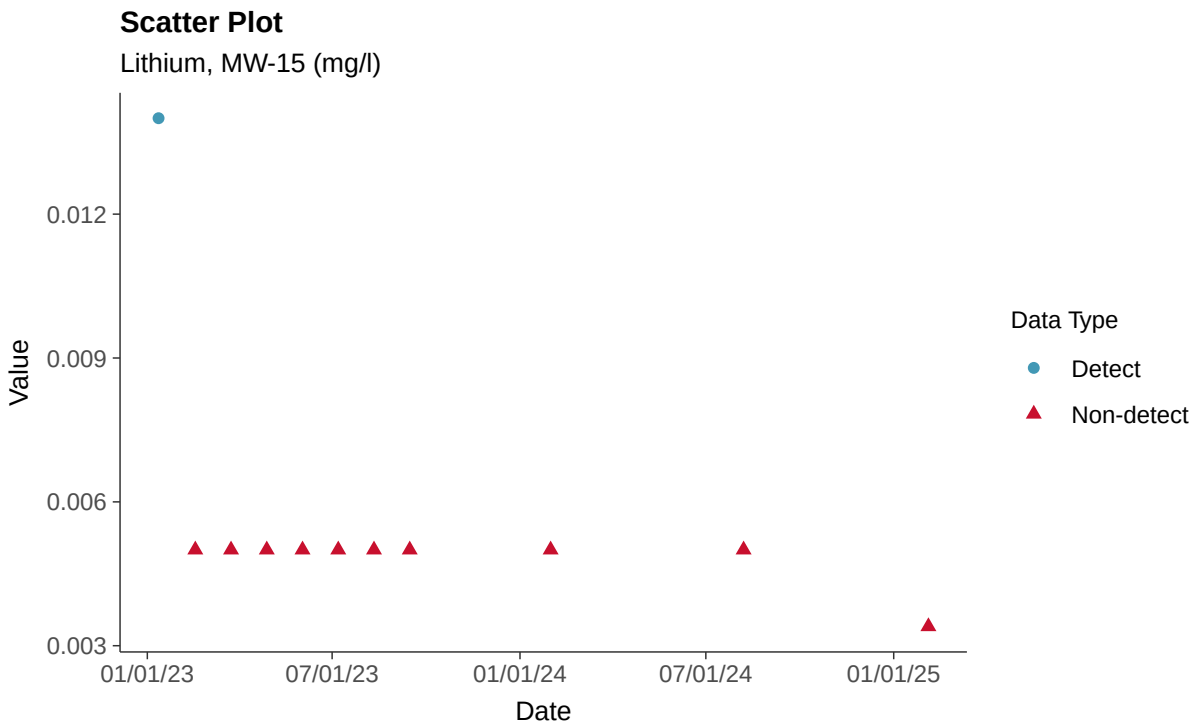


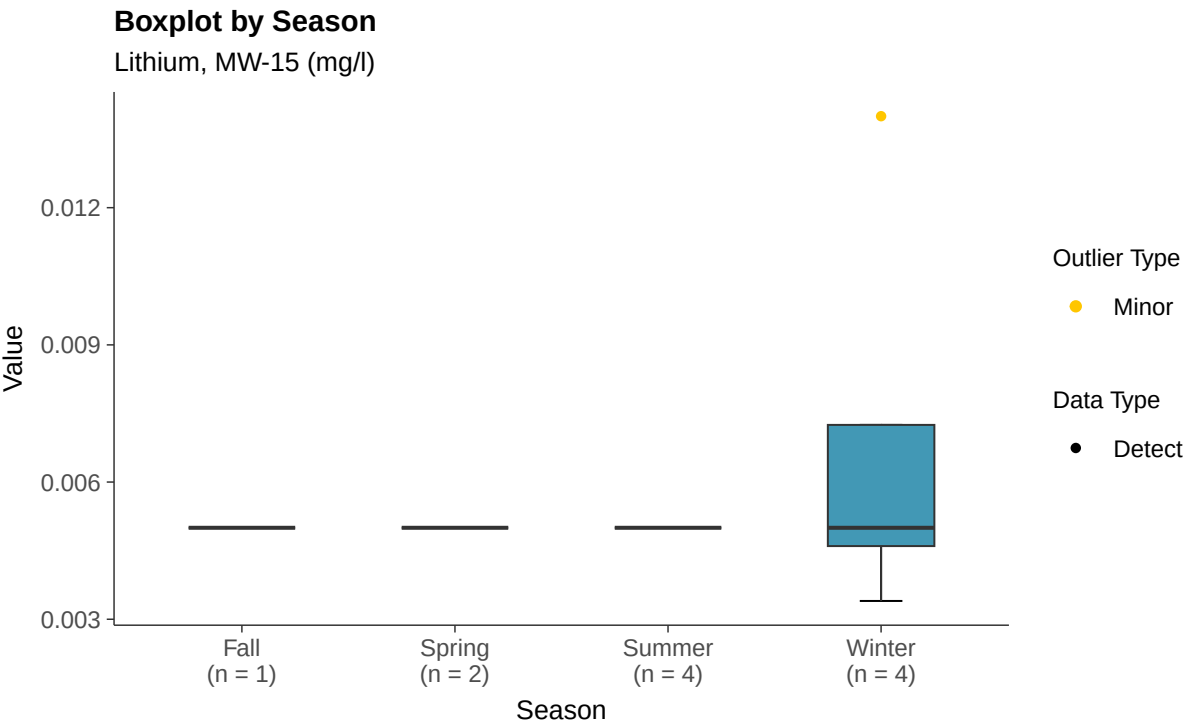
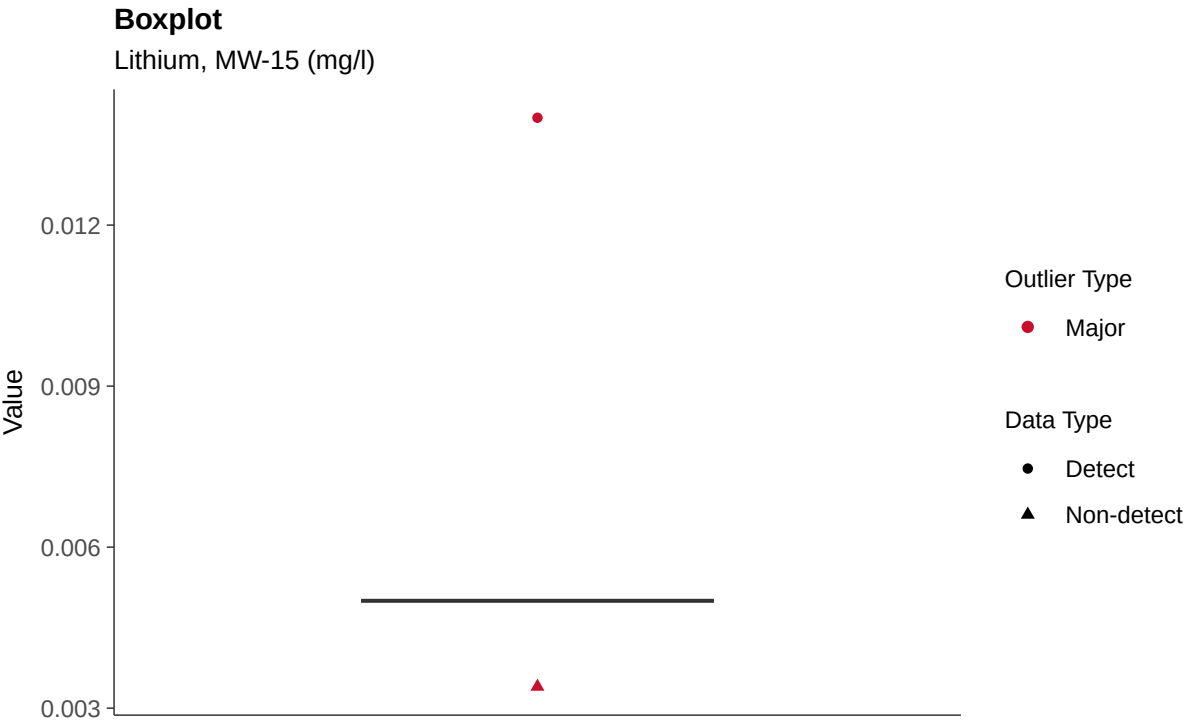




Appendix IV: Lithium, MW-15

ID: 22_3_116

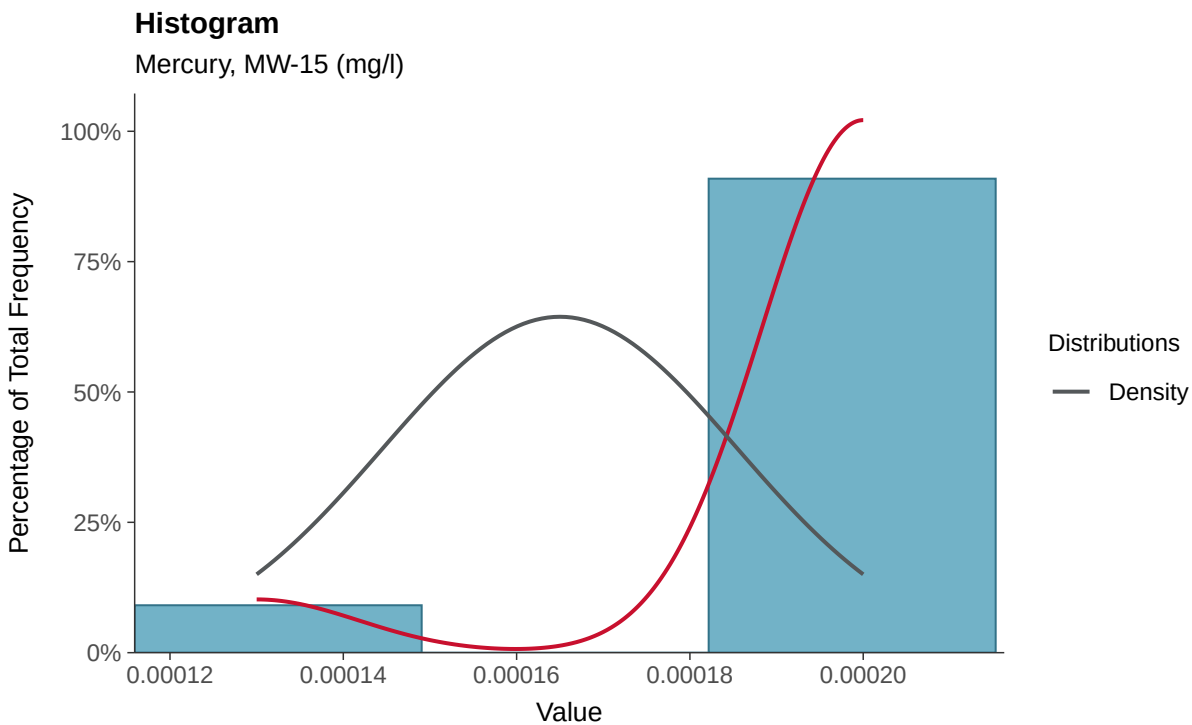
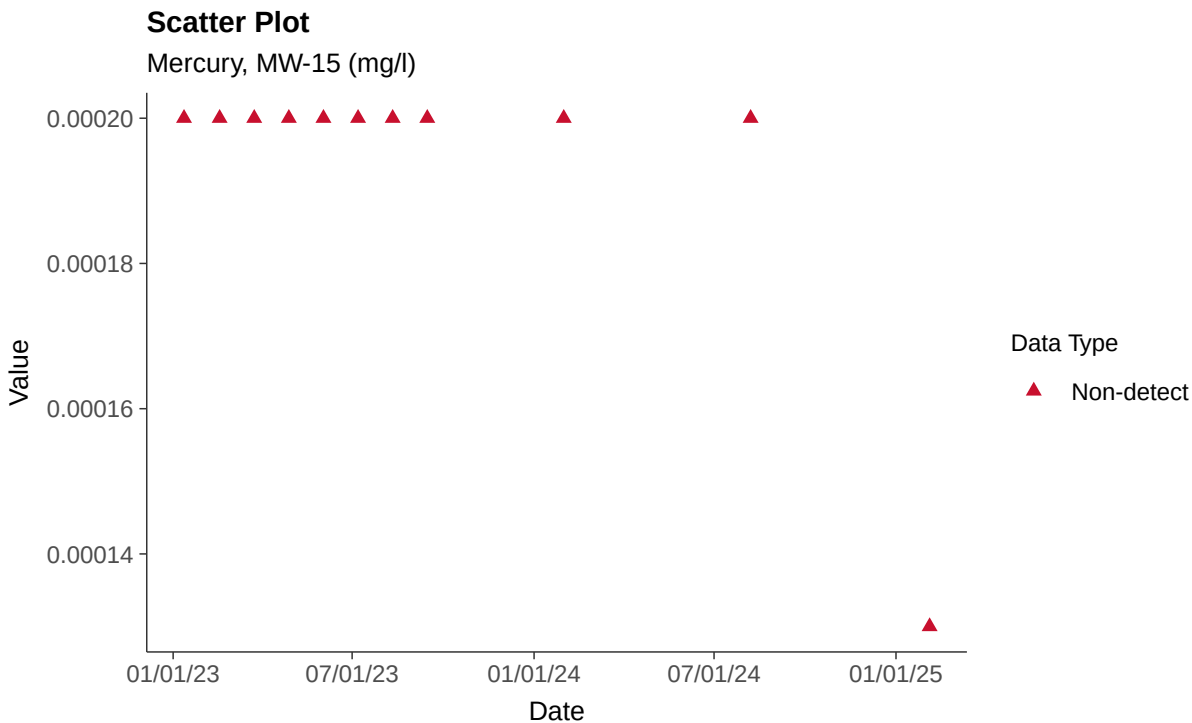


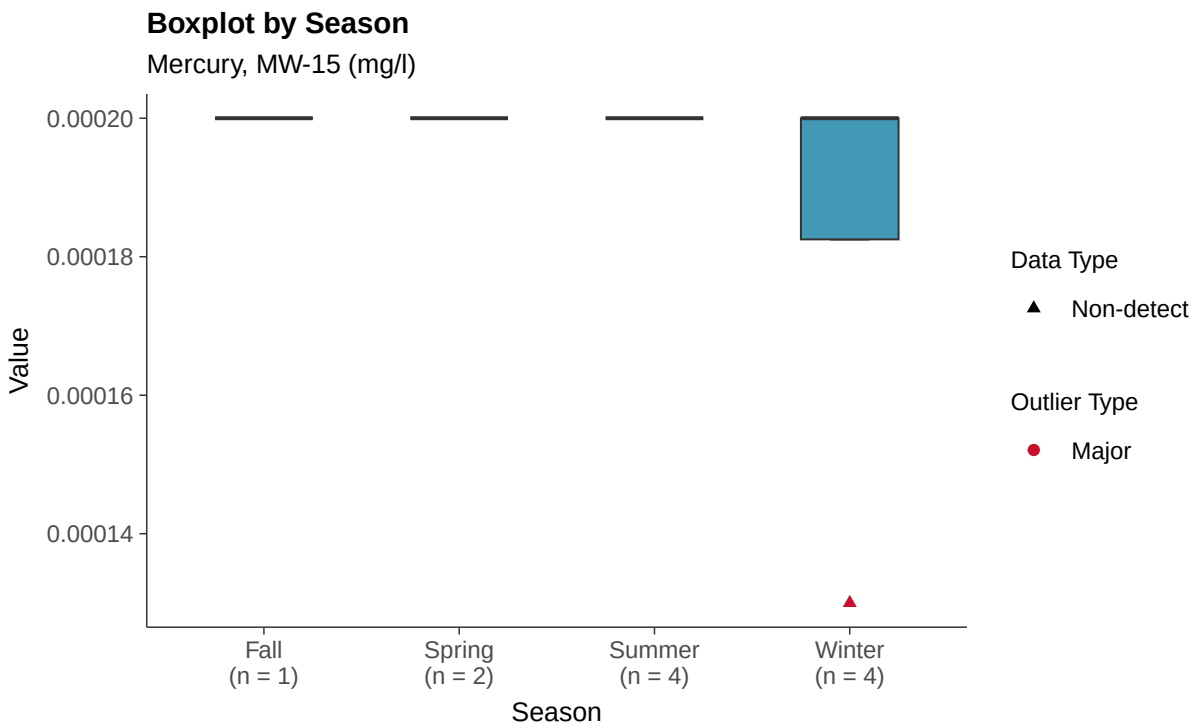
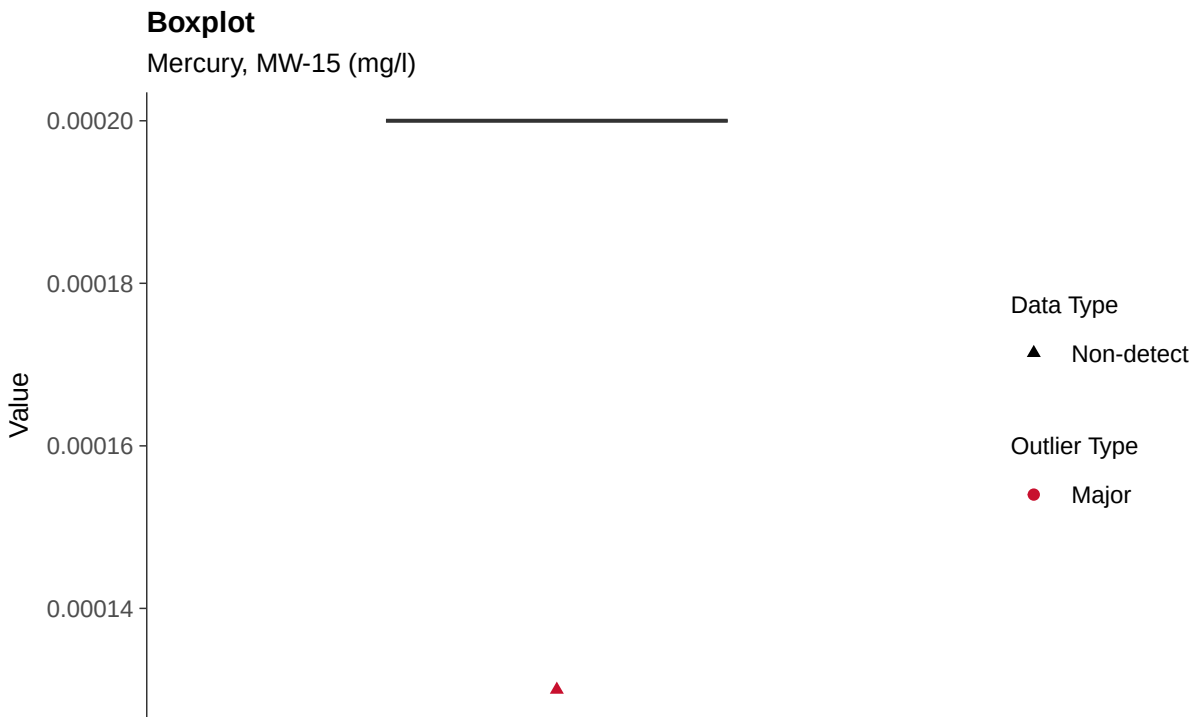




Appendix IV: Mercury, MW-15

ID: 22_3_117

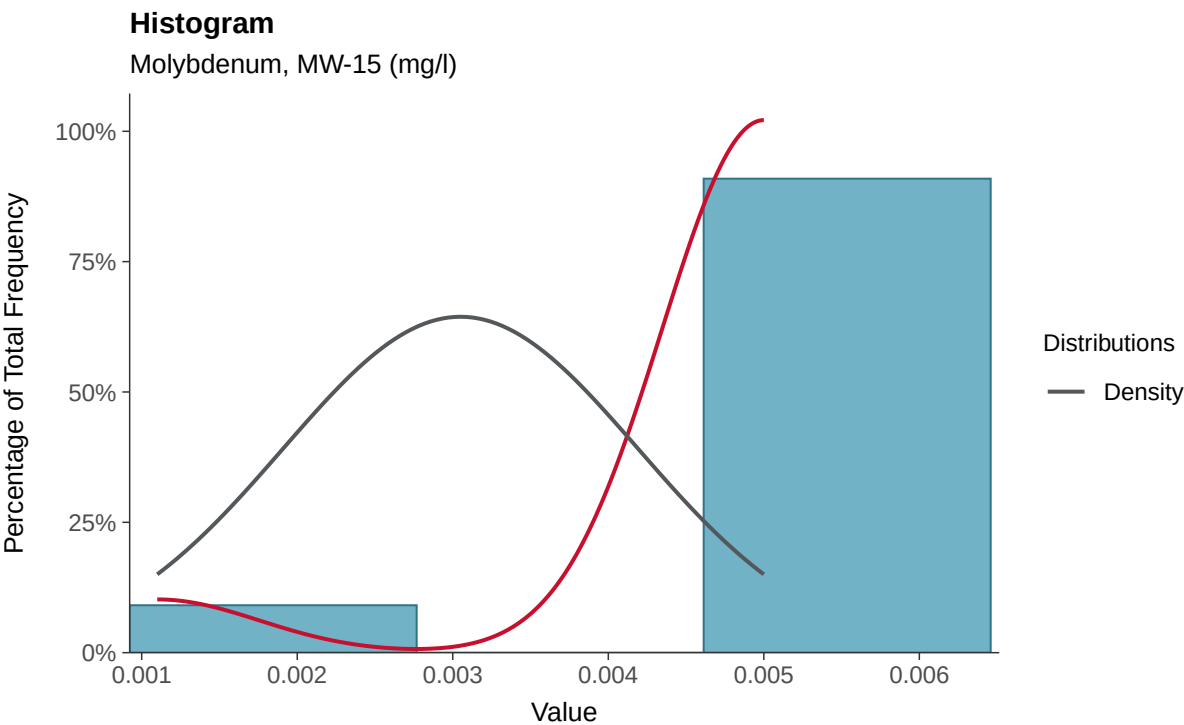
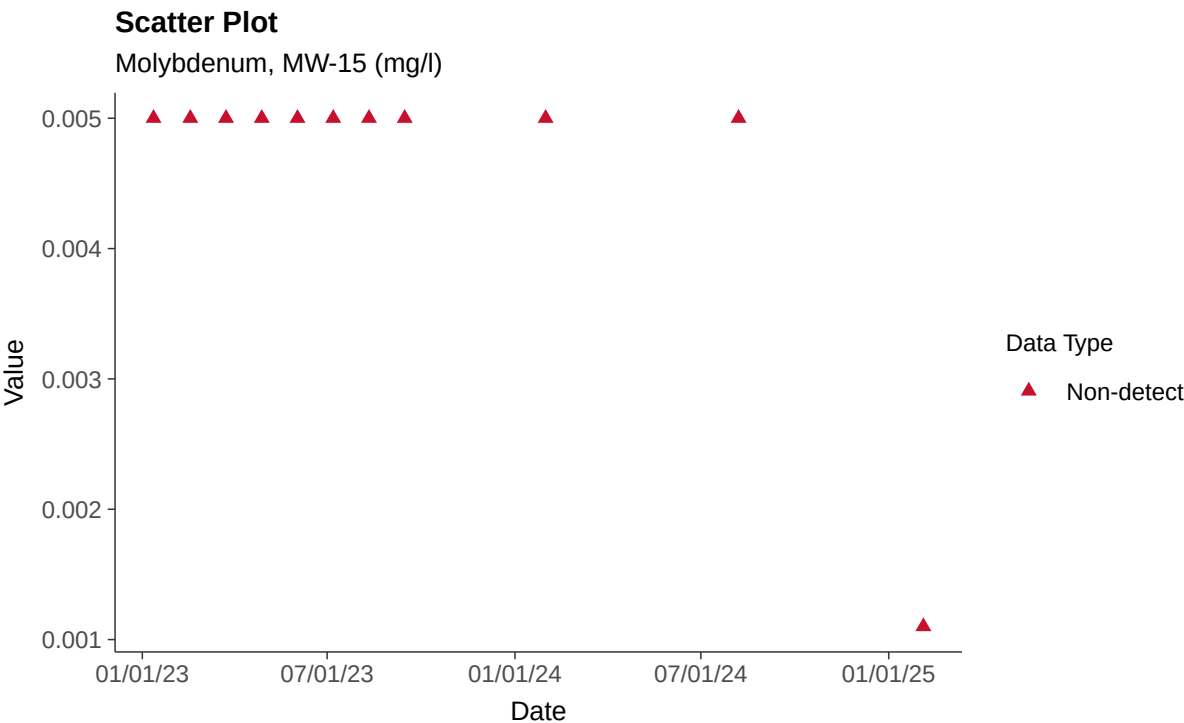


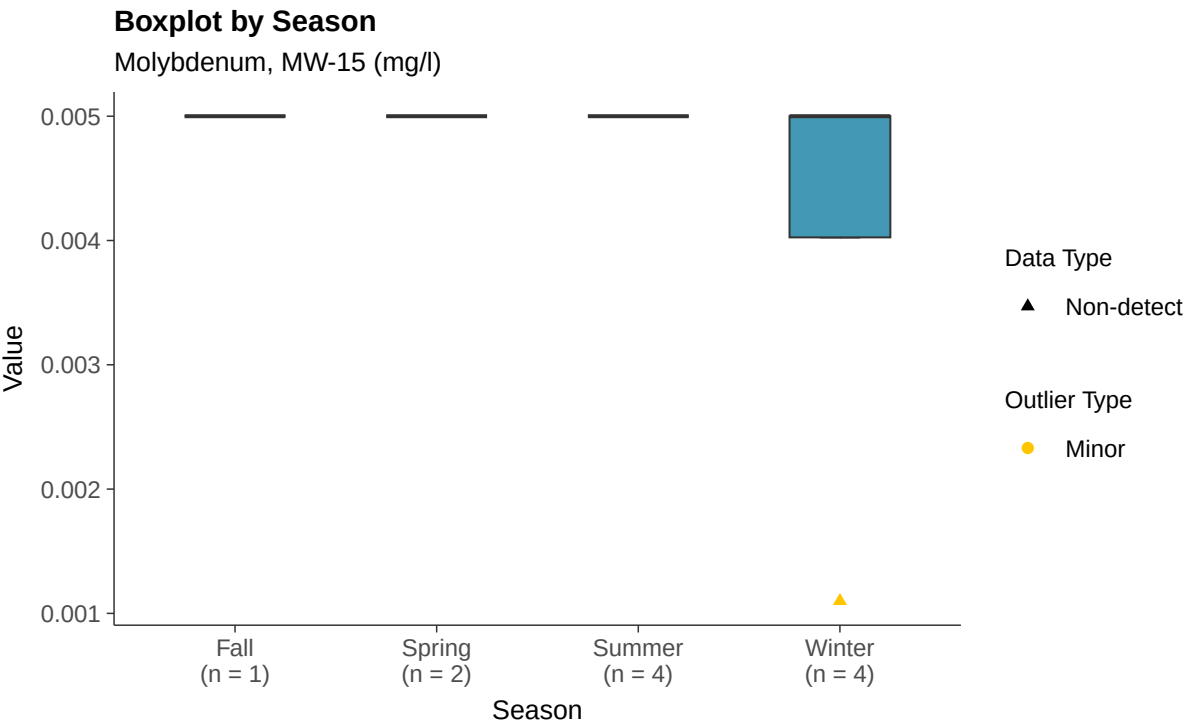
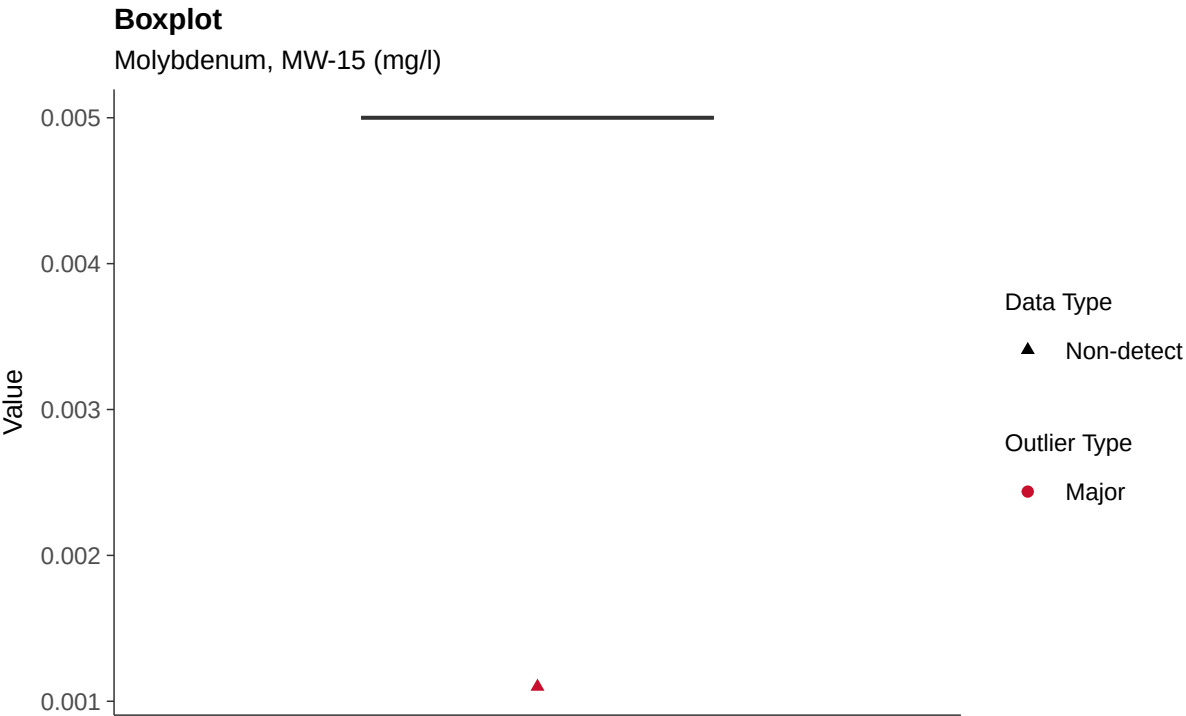




Appendix IV: Molybdenum, MW-15

ID: 22_3_118

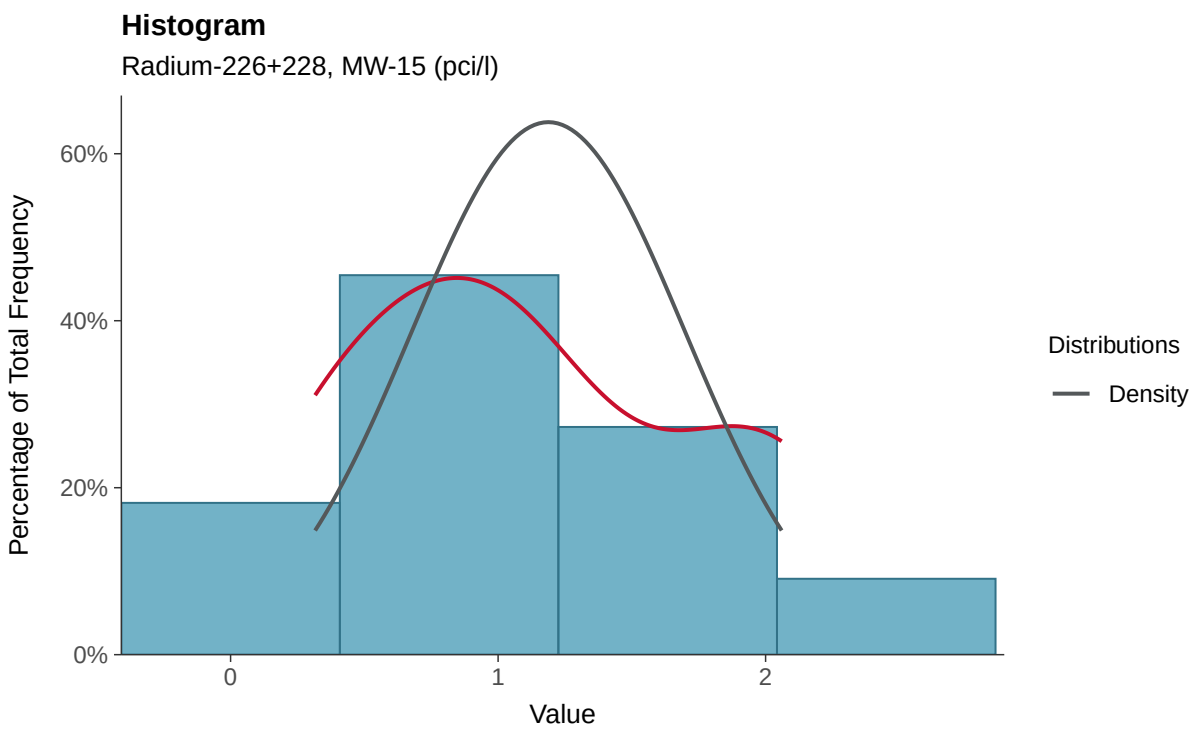
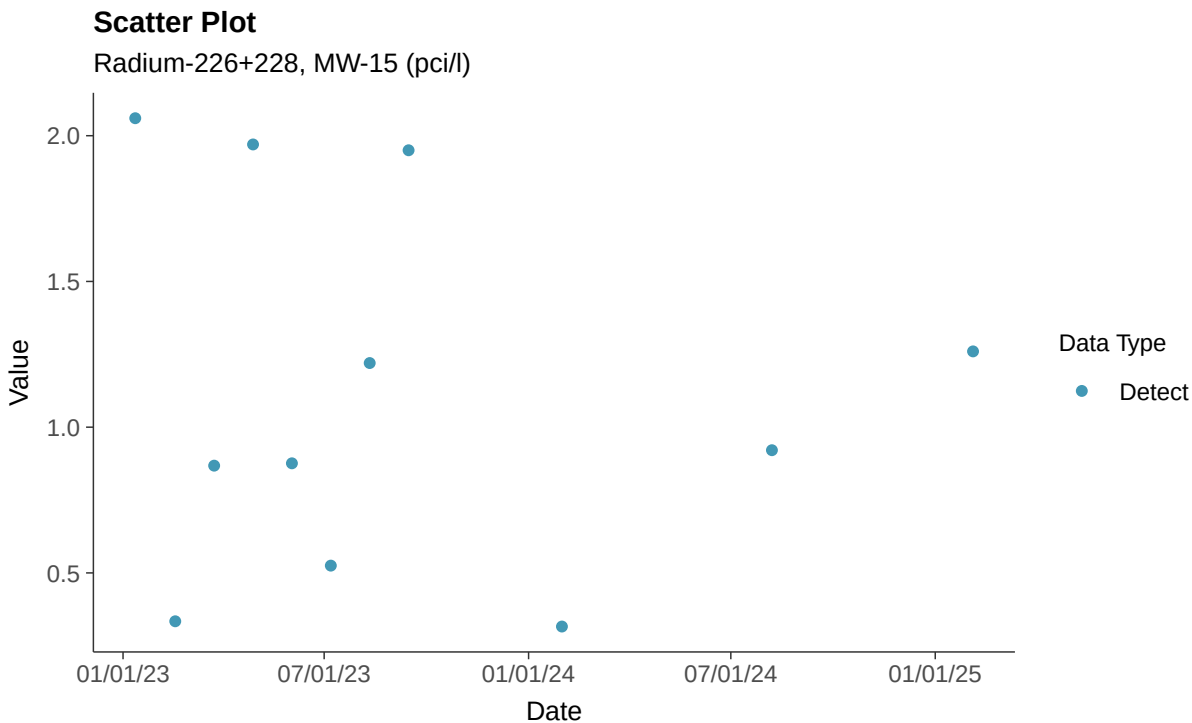






Appendix IV: Radium-226+228, MW-15

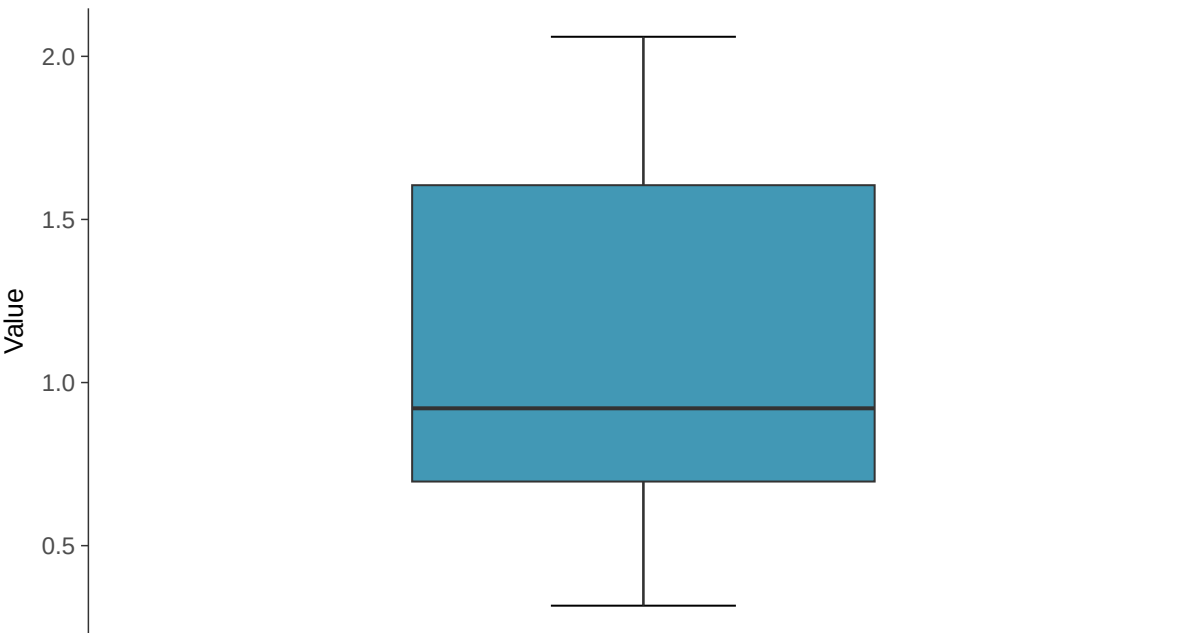
ID: 22_3_121





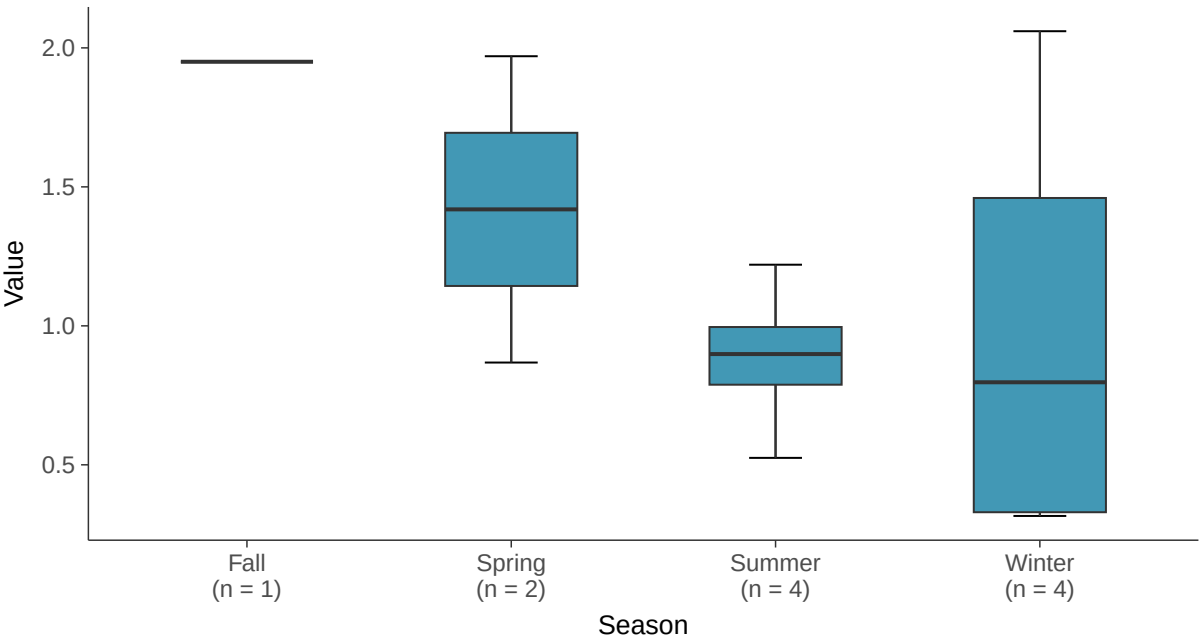
Boxplot

Radium-226+228, MW-15 (pci/l)



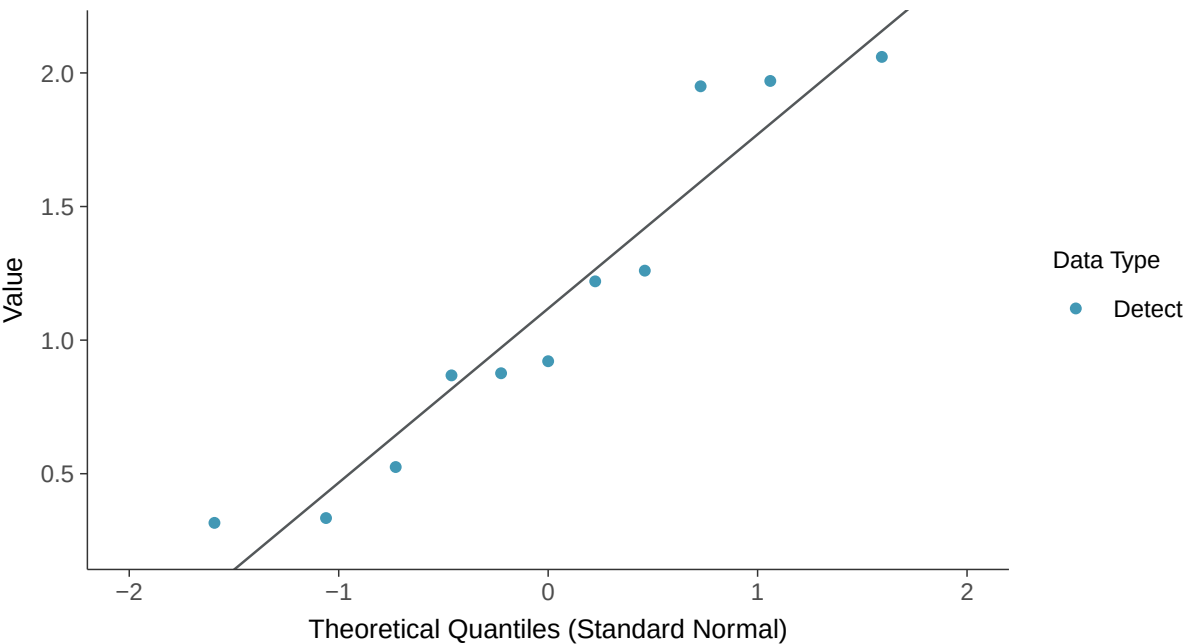
Boxplot by Season

Radium-226+228, MW-15 (pci/l)

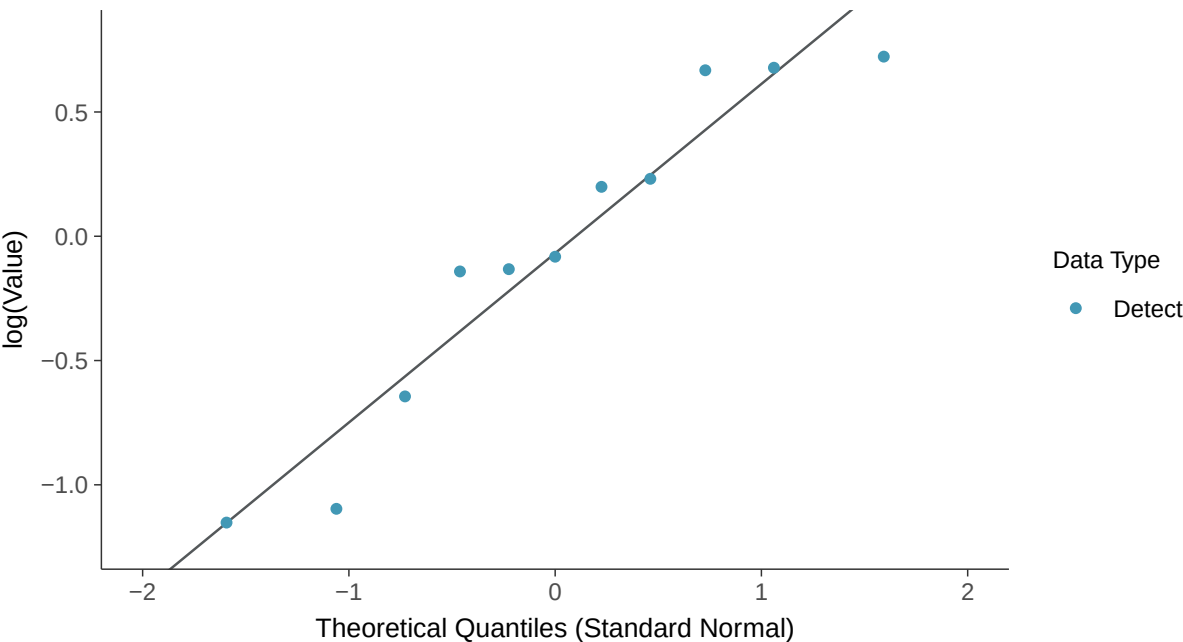


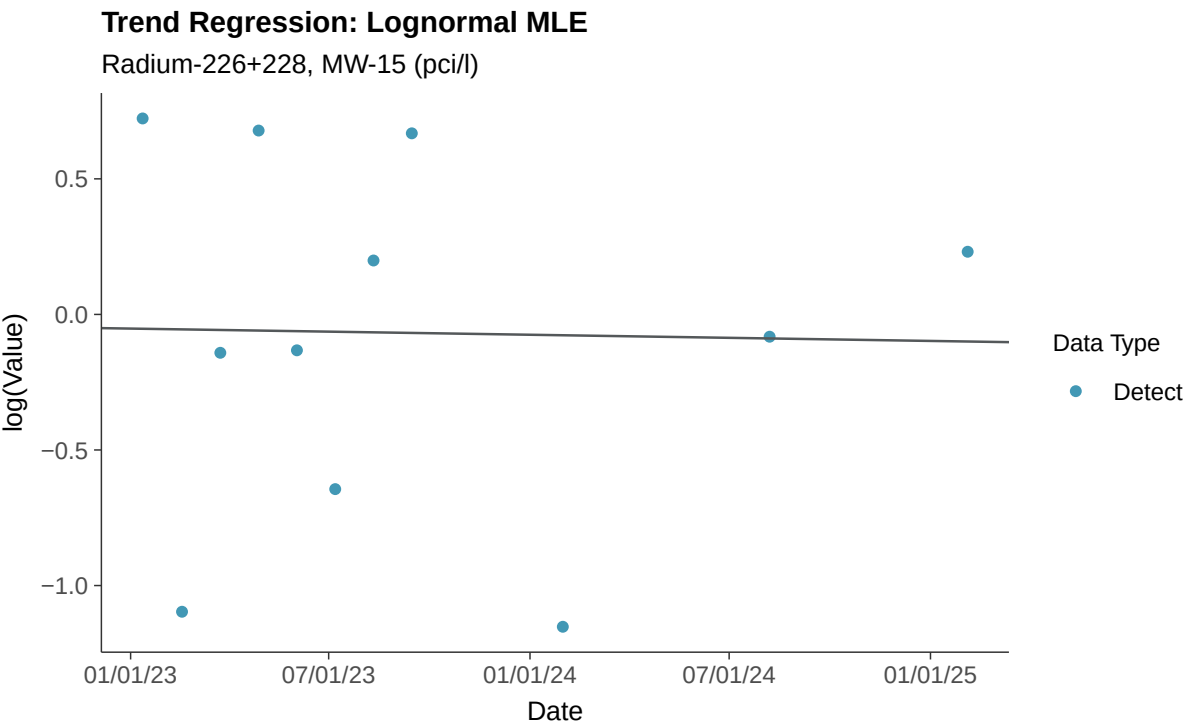
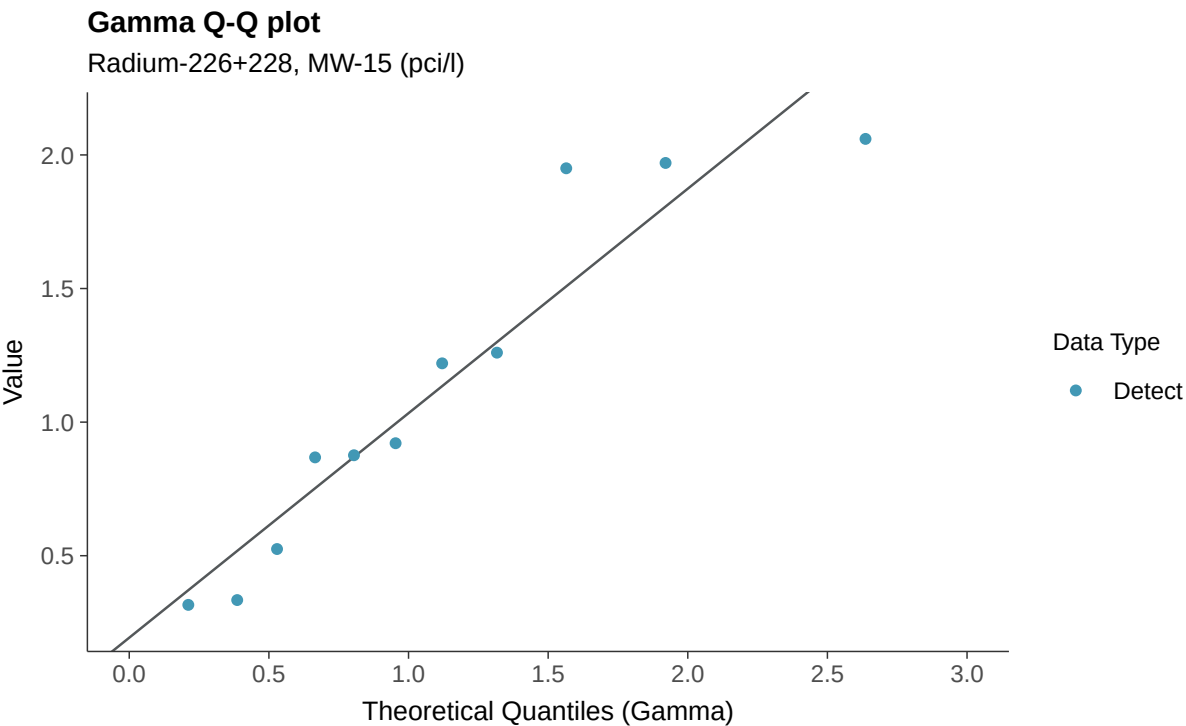


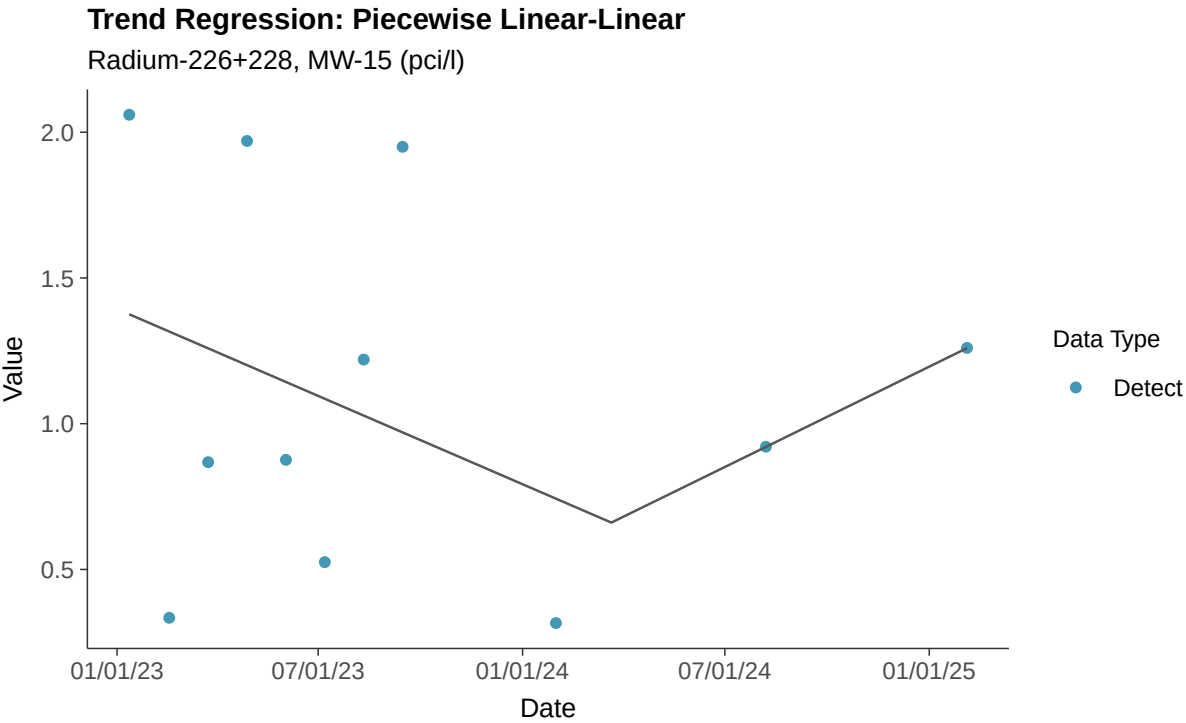
Normal Q-Q plot
Radium-226+228, MW-15 (pci/l)



Lognormal Q-Q plot
Radium-226+228, MW-15 (pci/l)



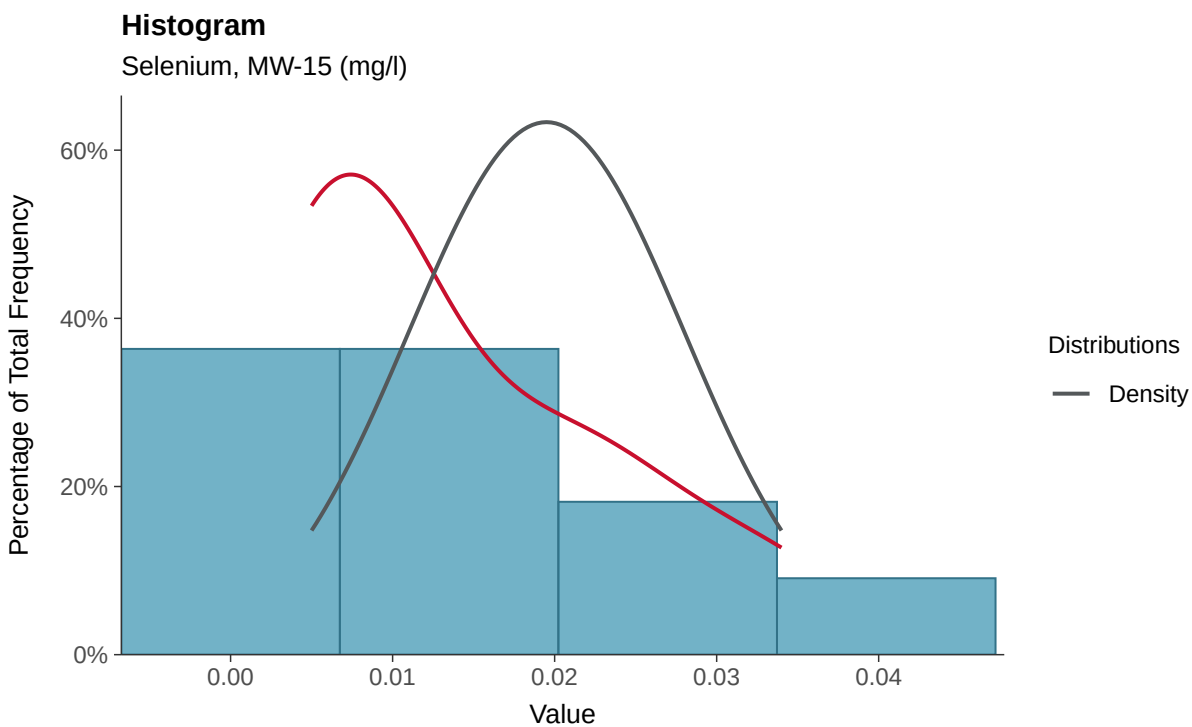
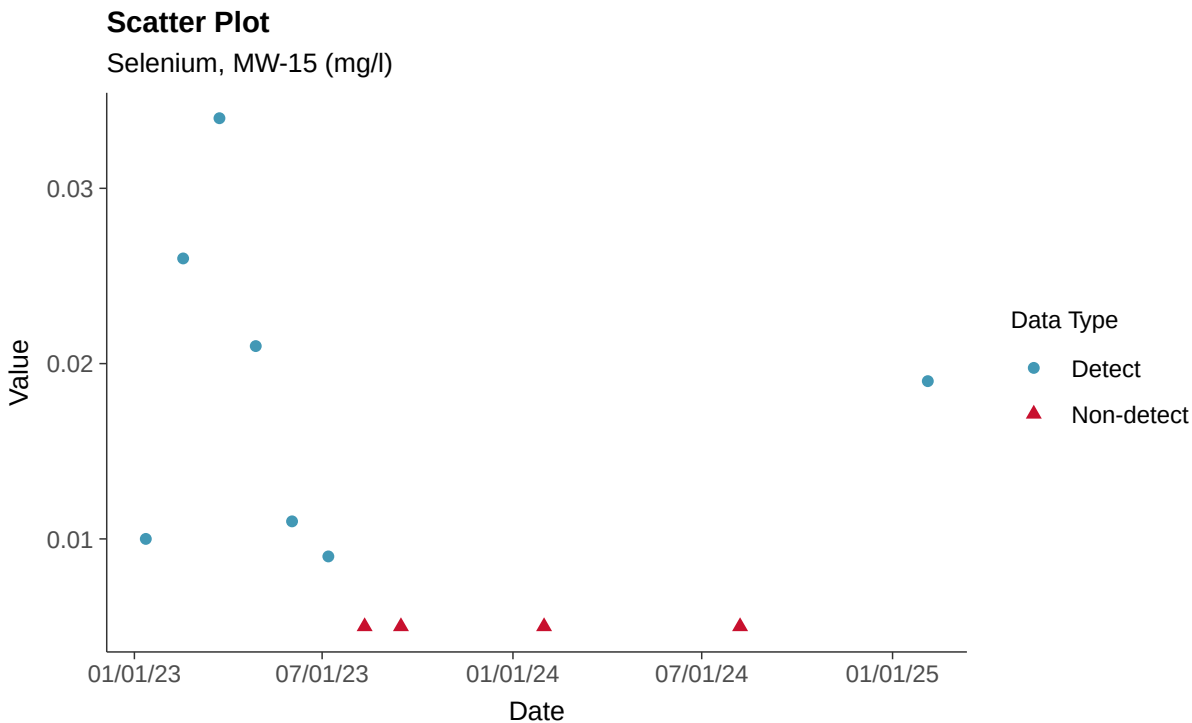


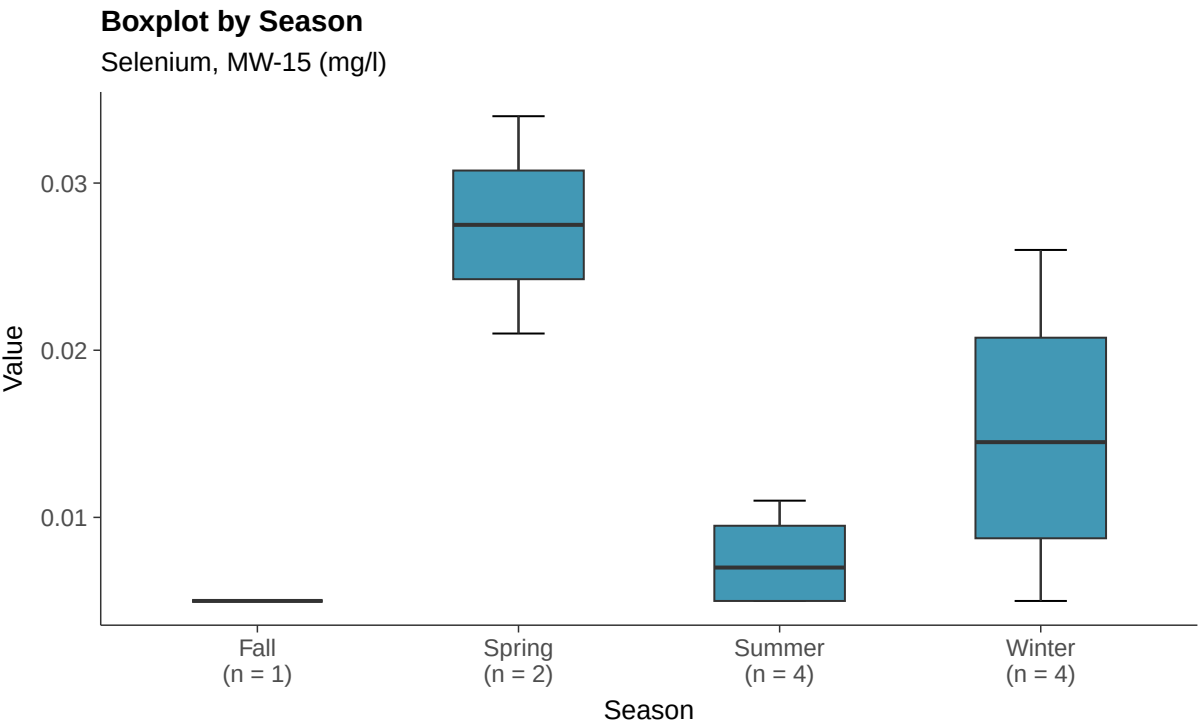
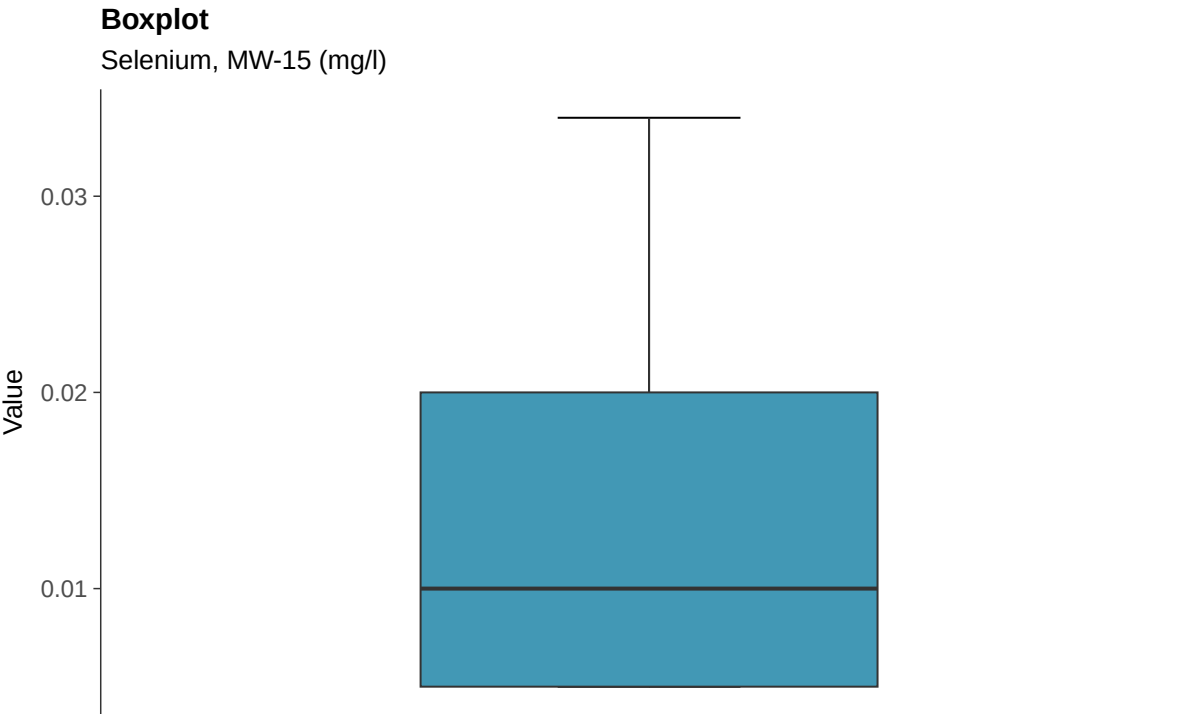


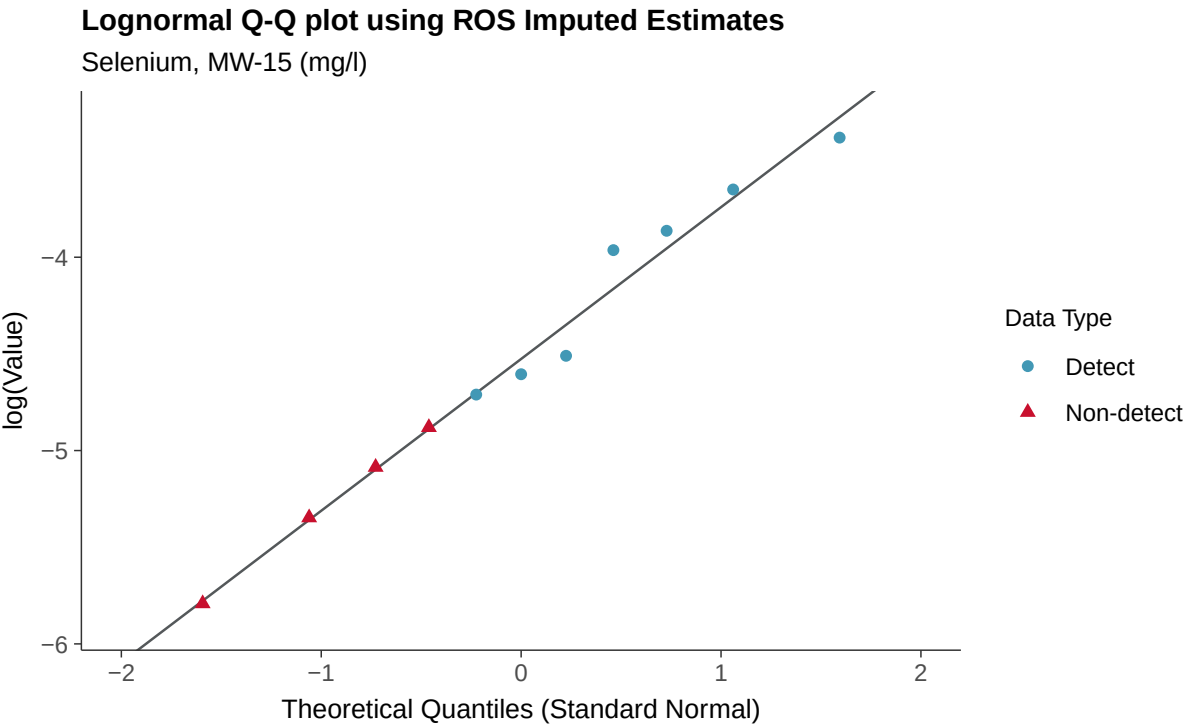
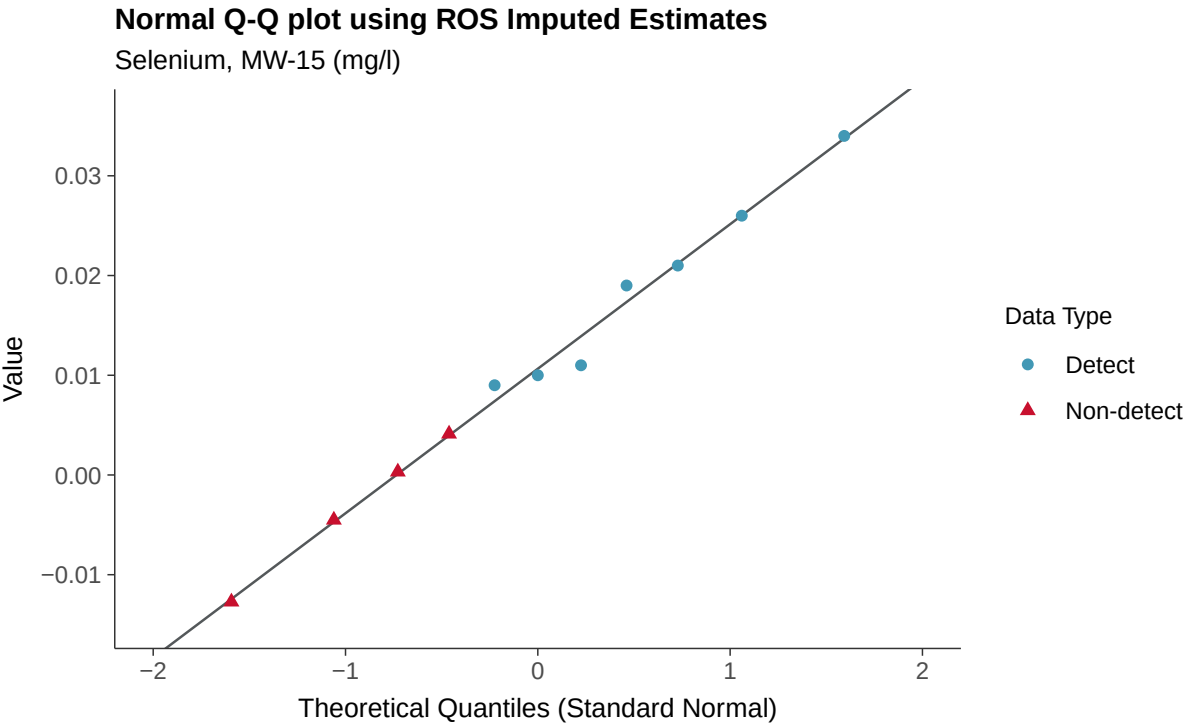


Appendix IV: Selenium, MW-15

ID: 22_3_122



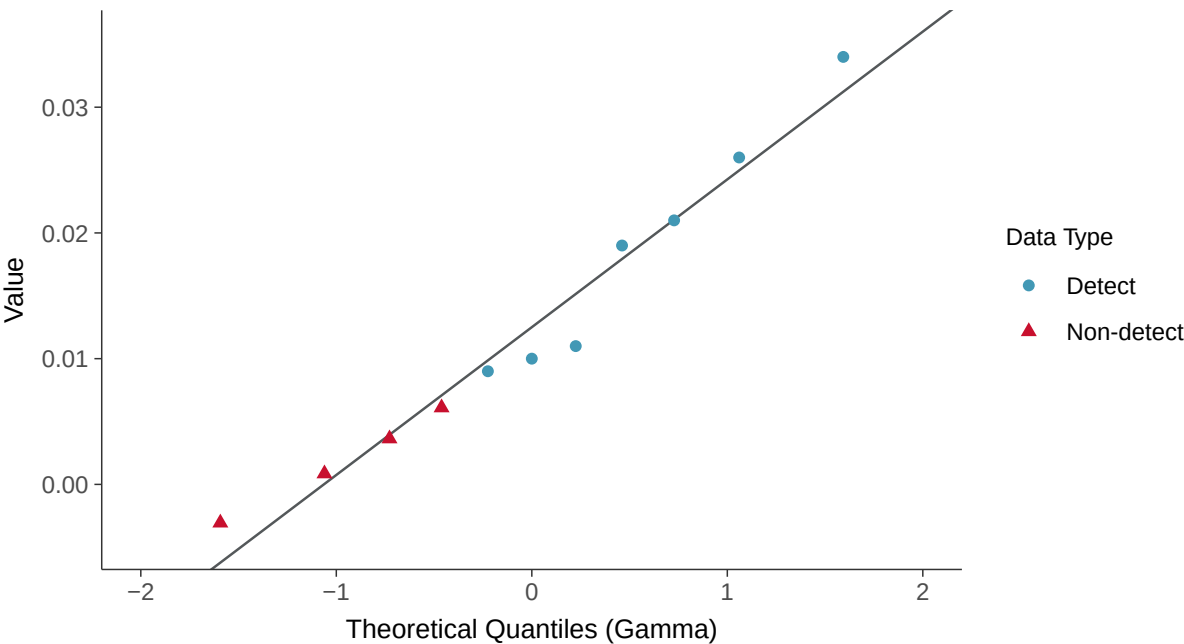






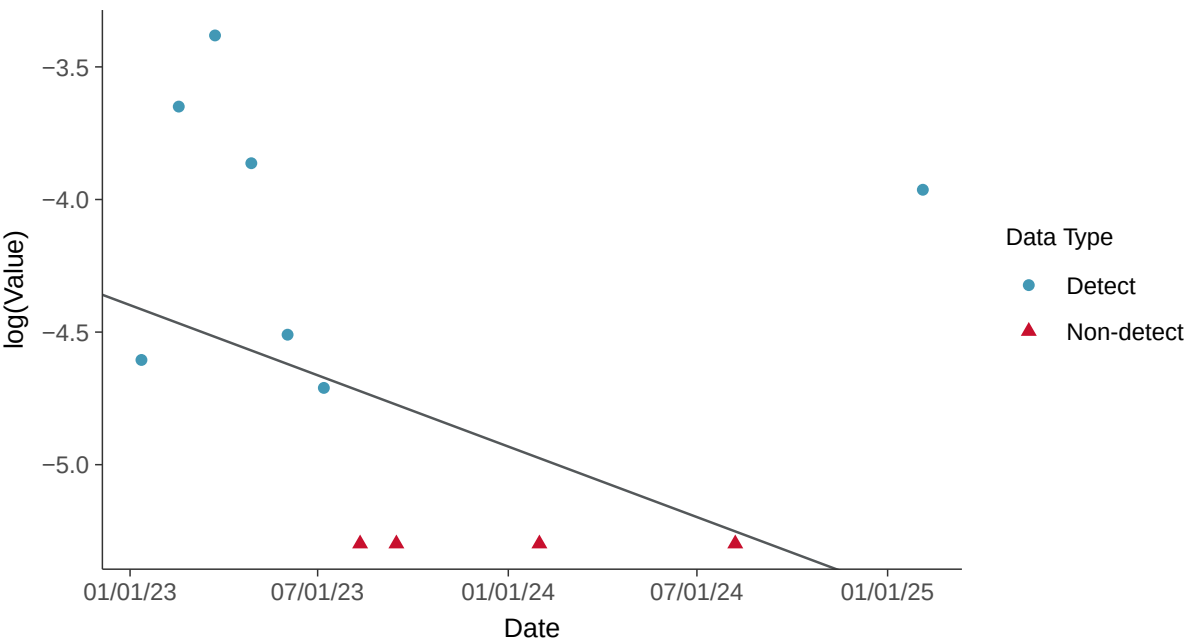
Gamma Q-Q plot using ROS Imputed Estimates

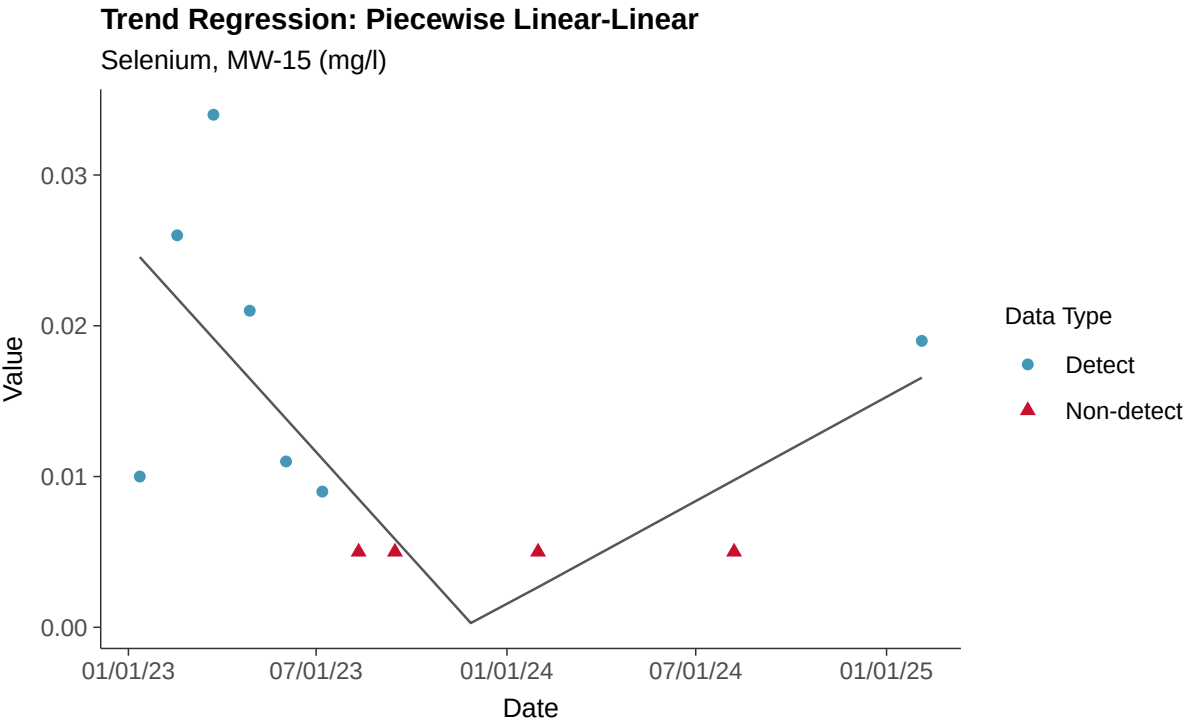
Selenium, MW-15 (mg/l)



Trend Regression: Lognormal MLE

Selenium, MW-15 (mg/l)

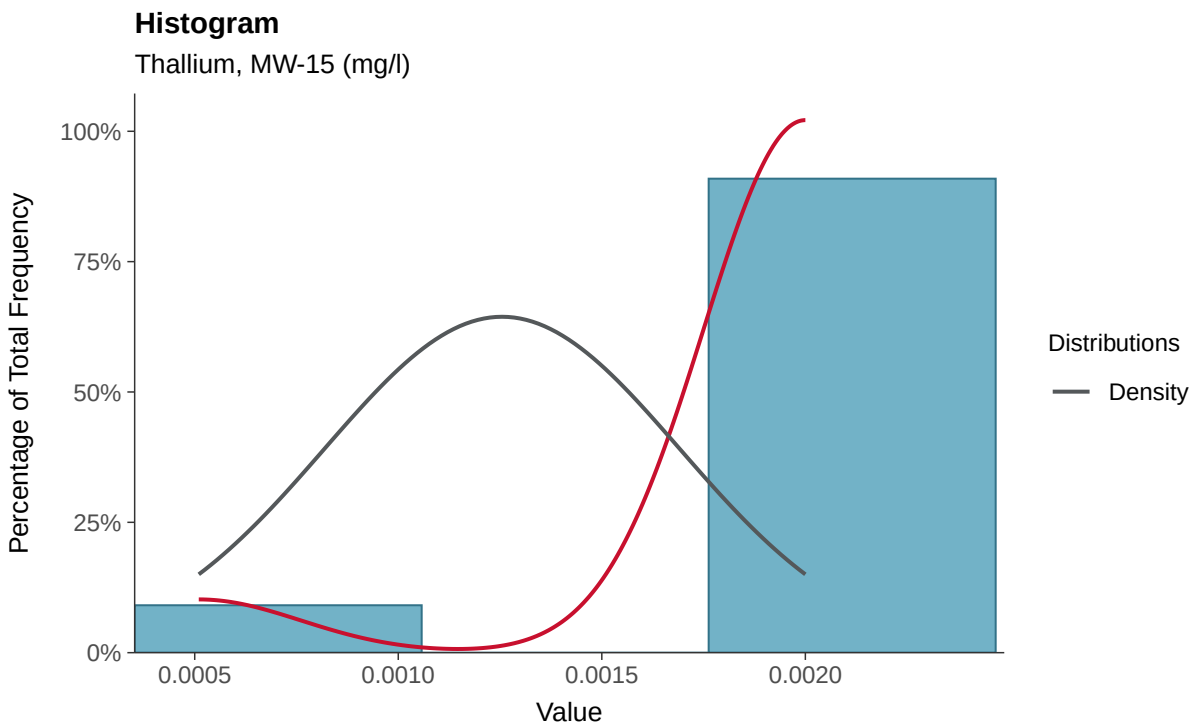
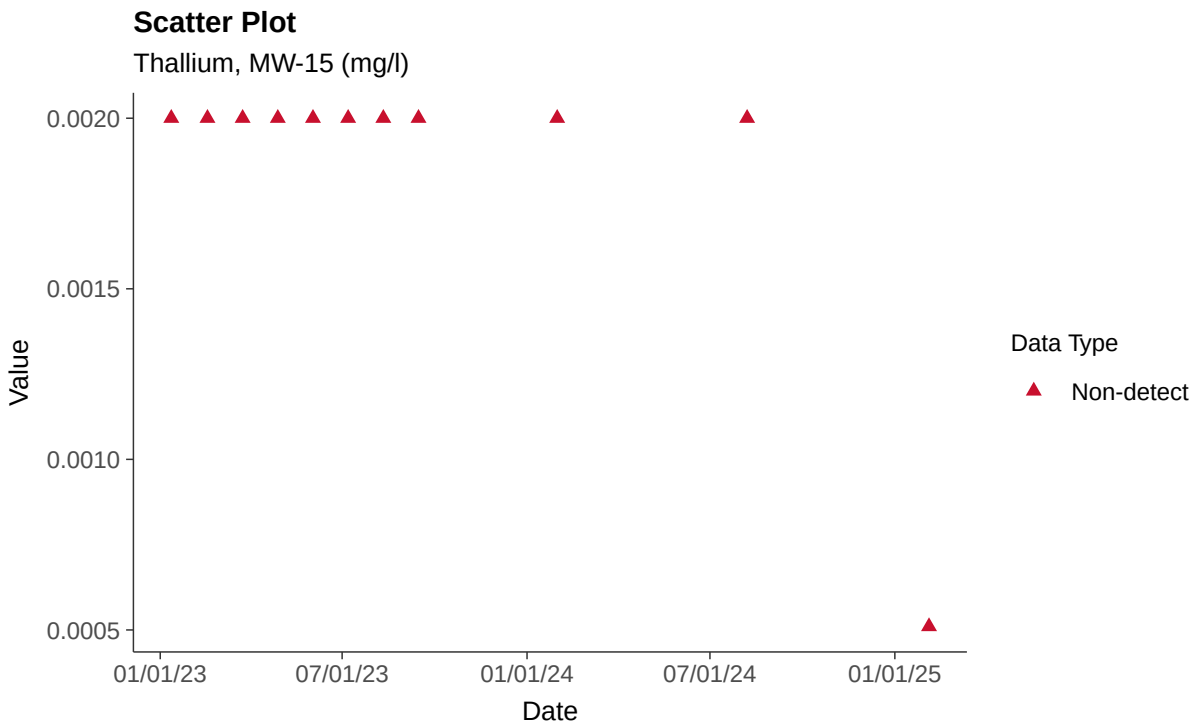


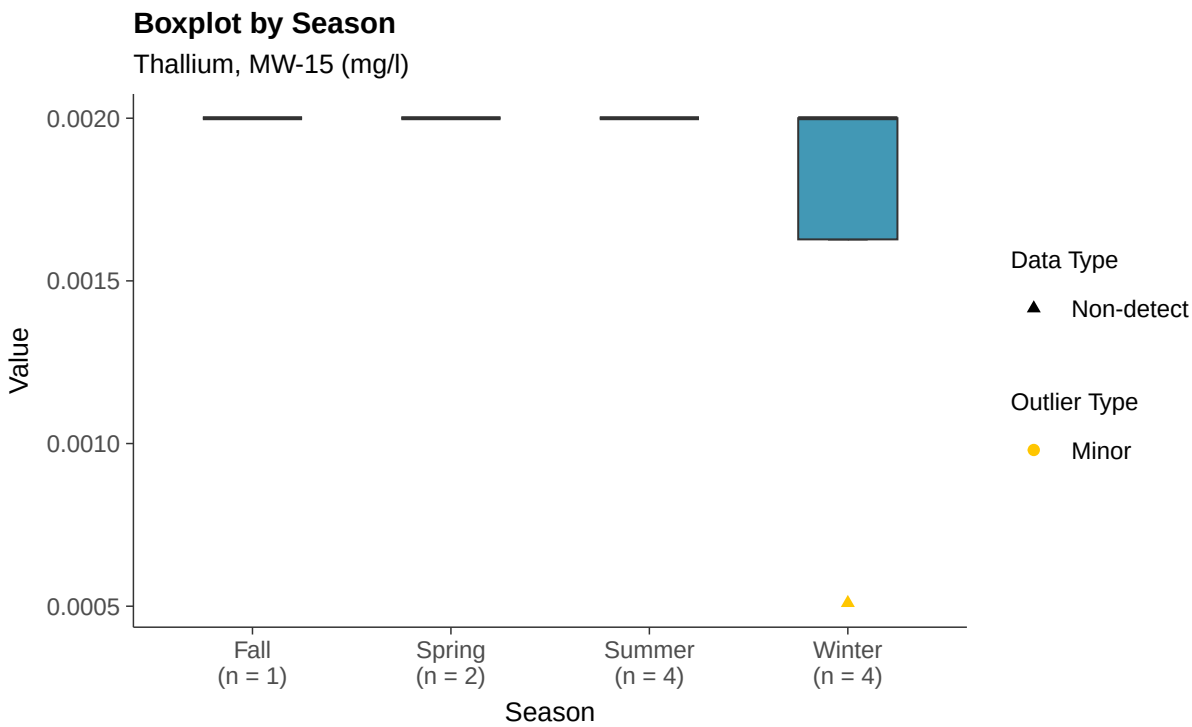
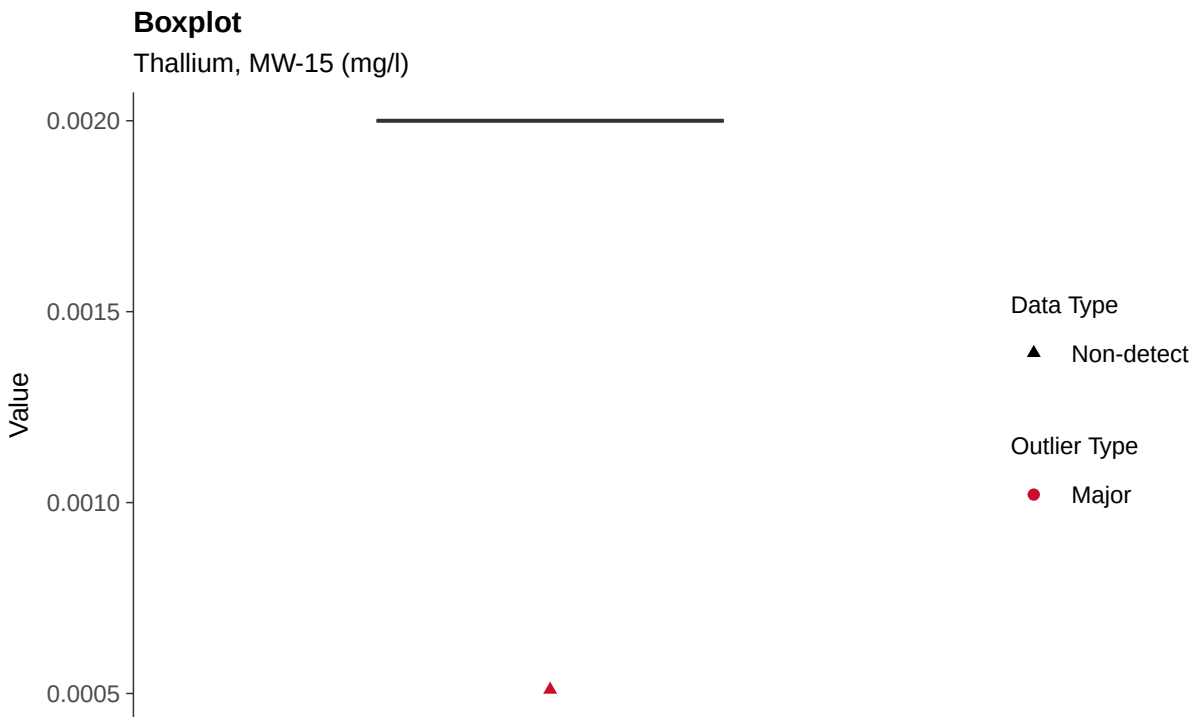




Appendix IV: Thallium, MW-15

ID: 22_3_125

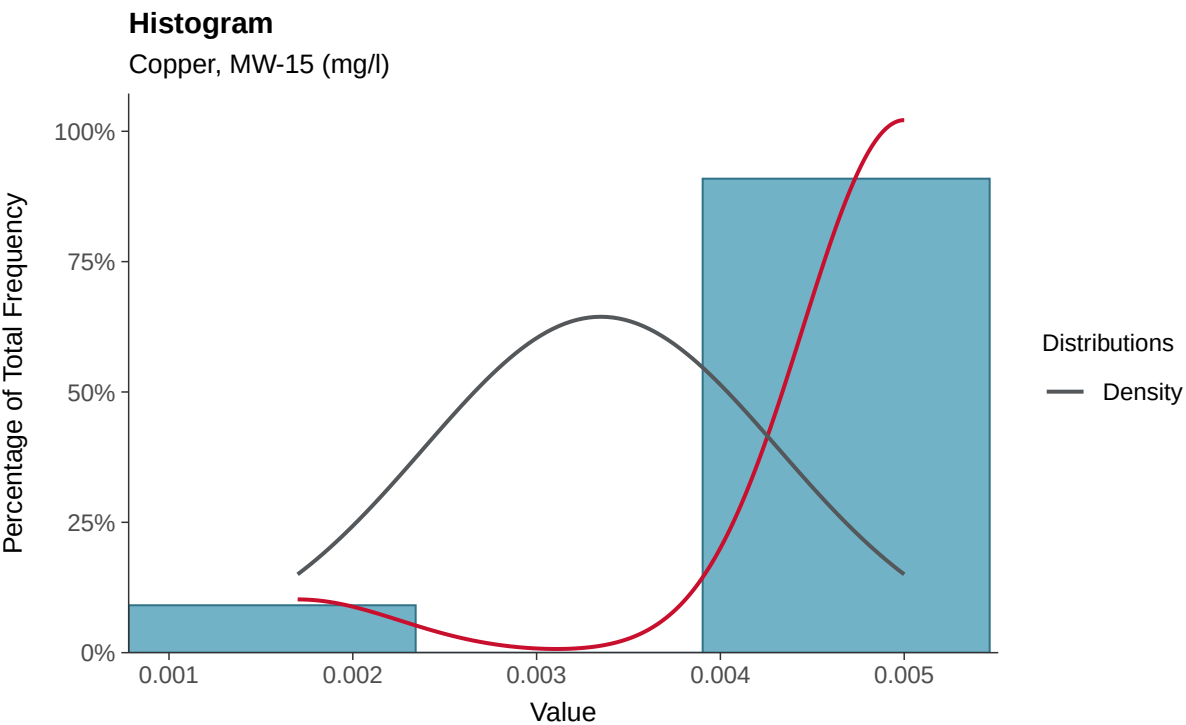
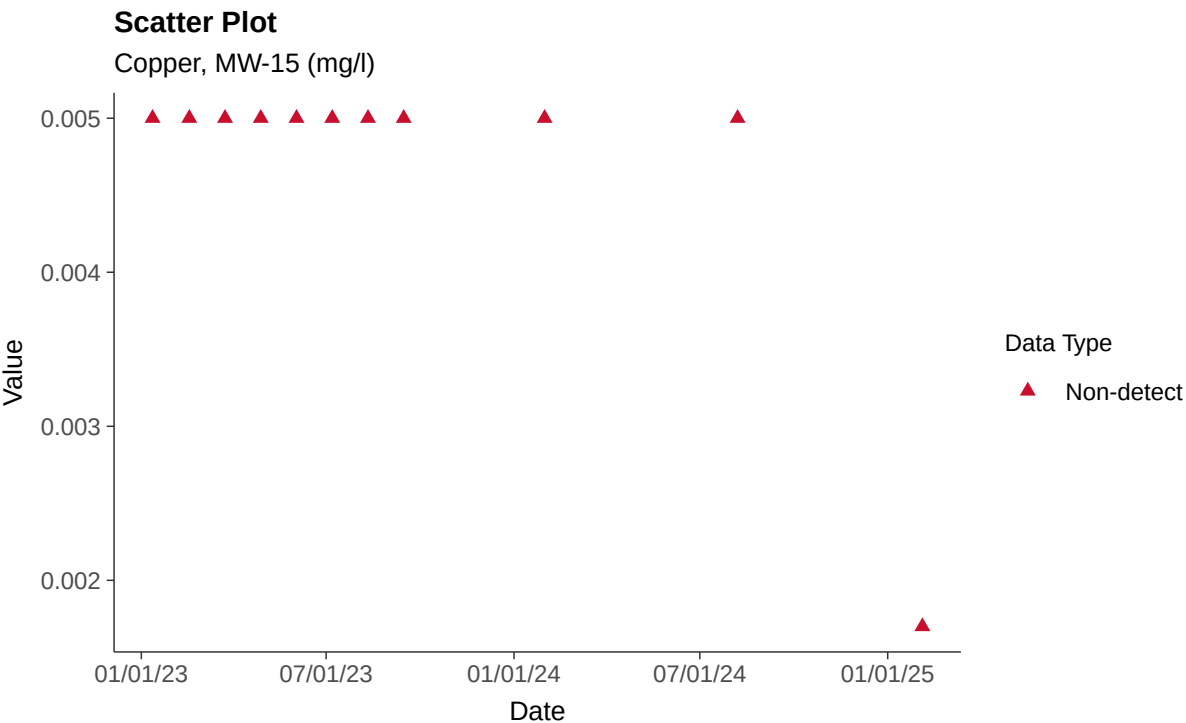


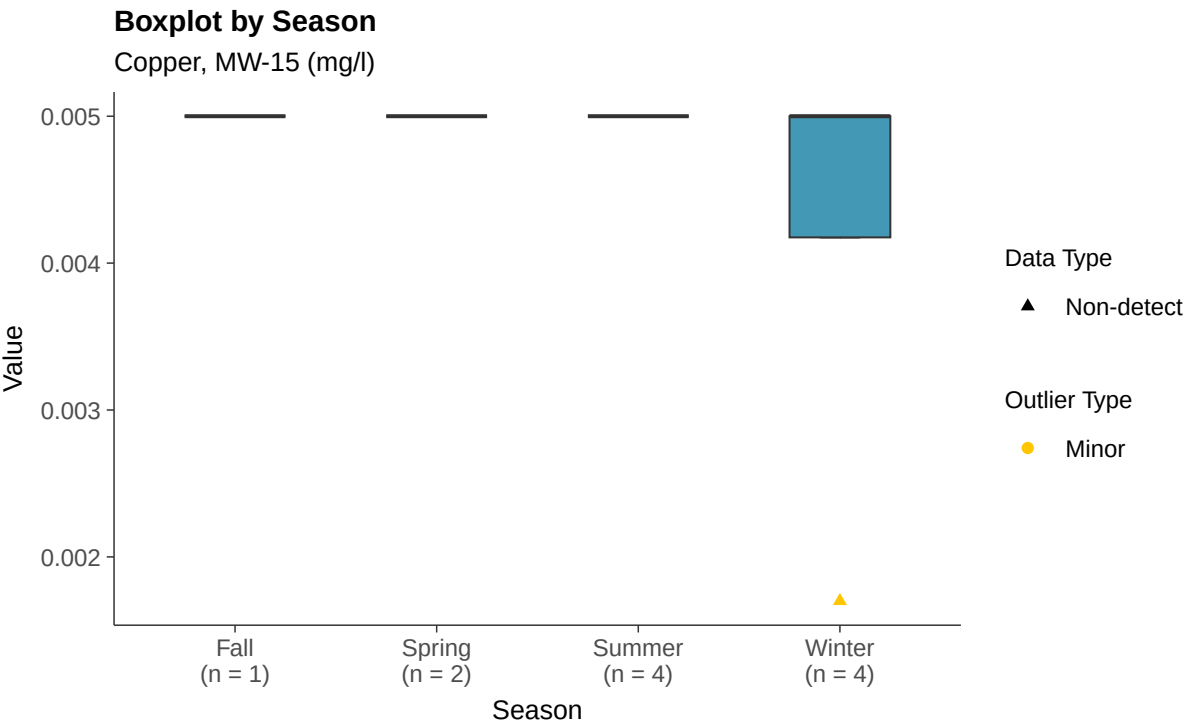
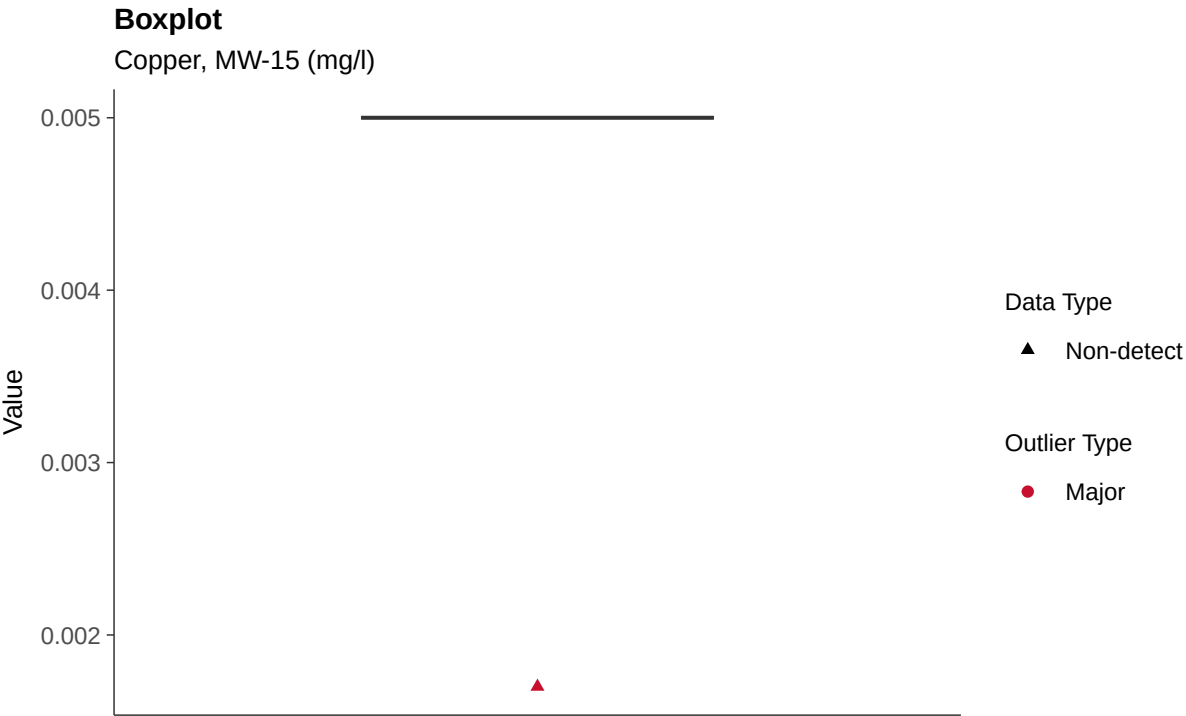




Part 115: Copper, MW-15

ID: 22_5_111

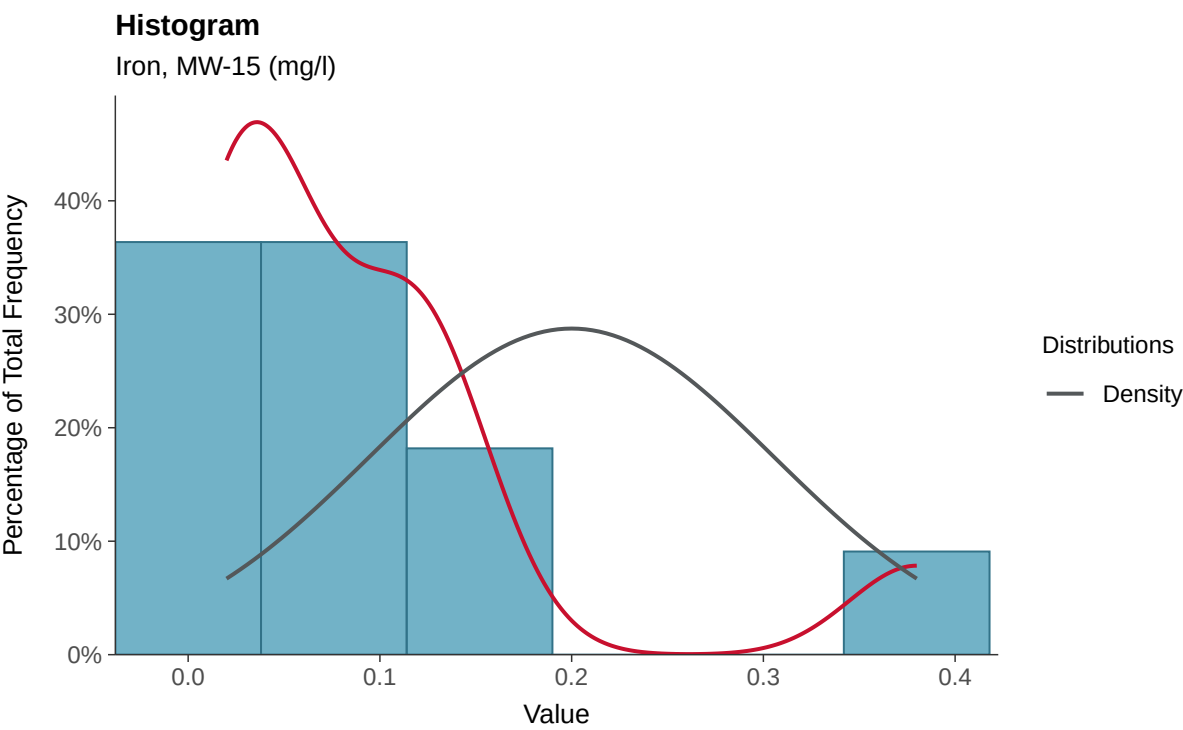
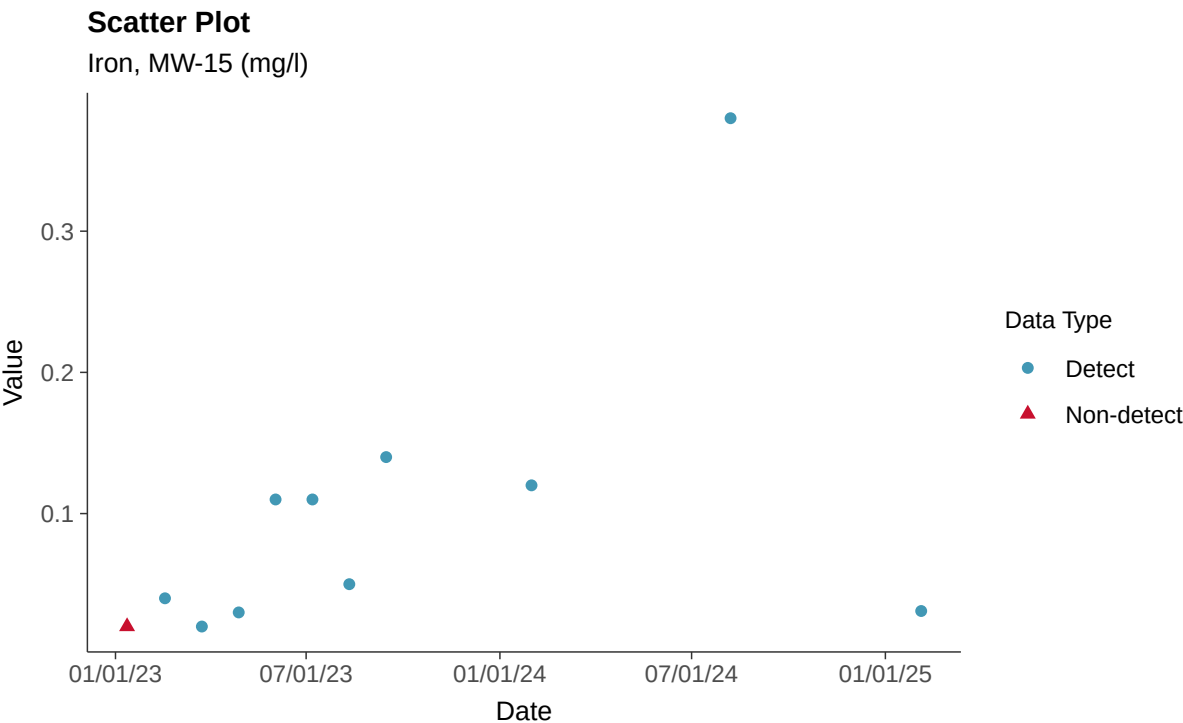


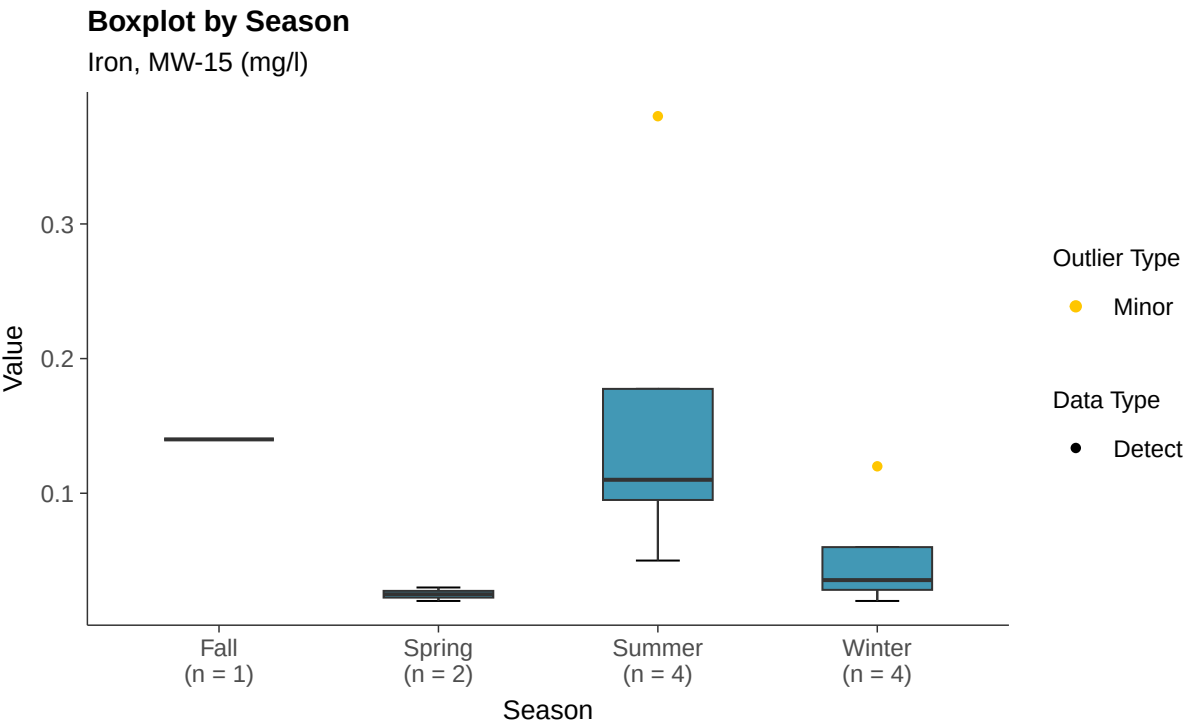
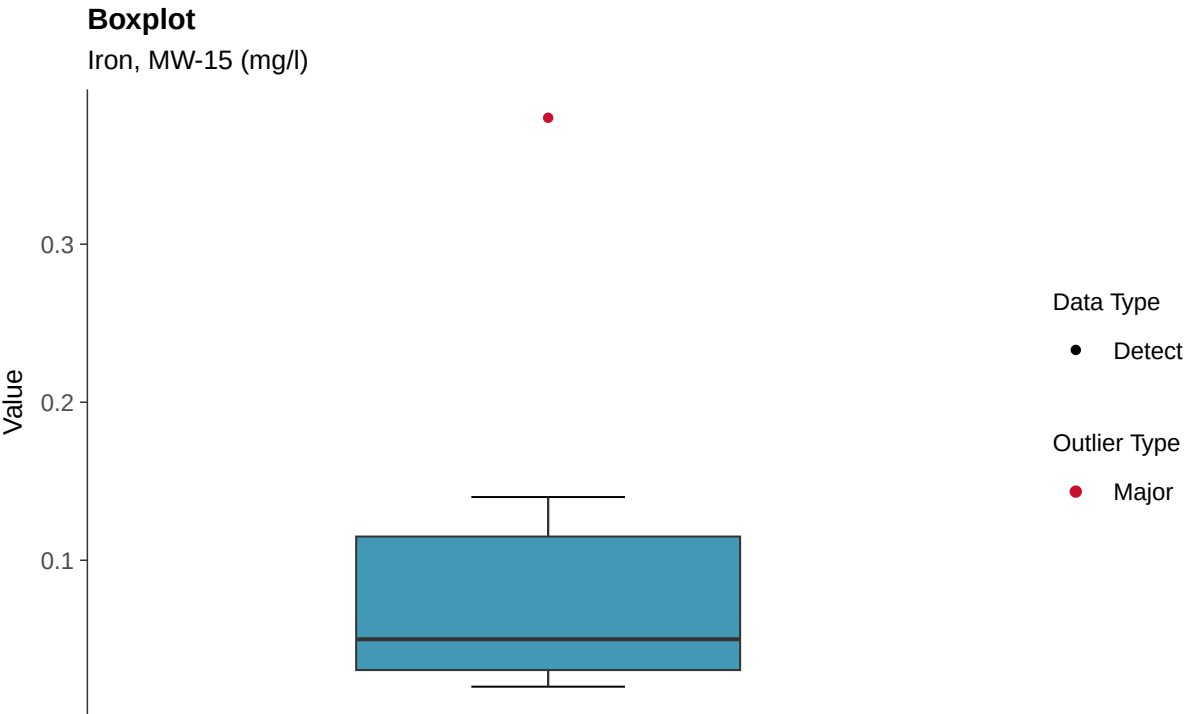




Part 115: Iron, MW-15

ID: 22_5_114

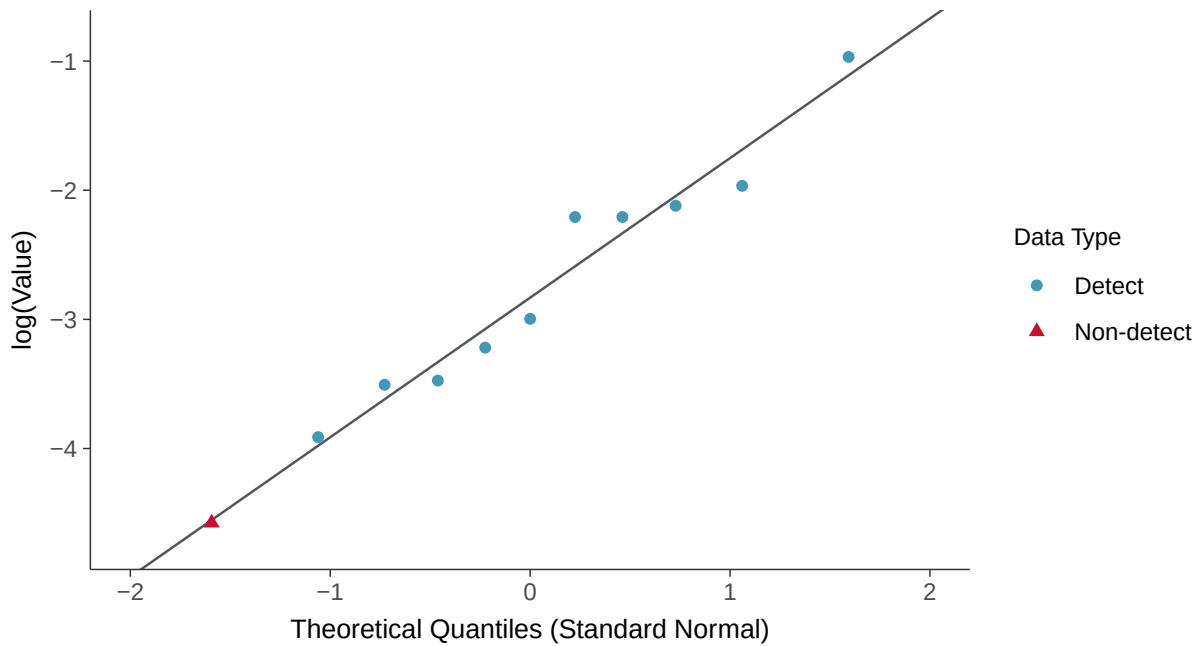






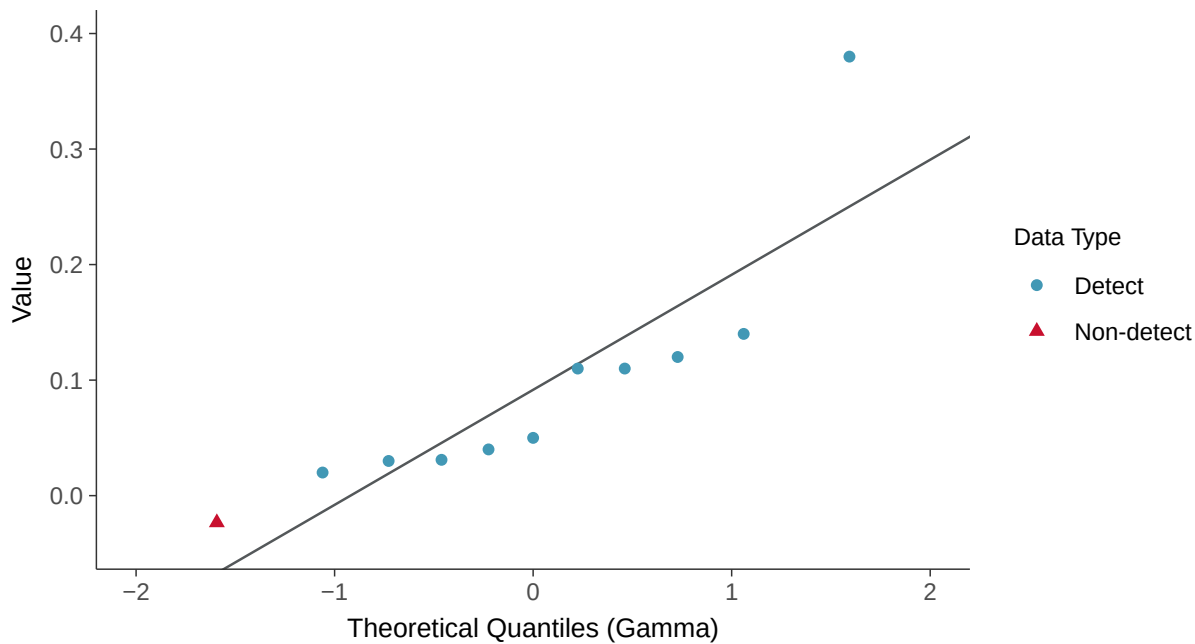
Lognormal Q-Q plot using ROS Imputed Estimates

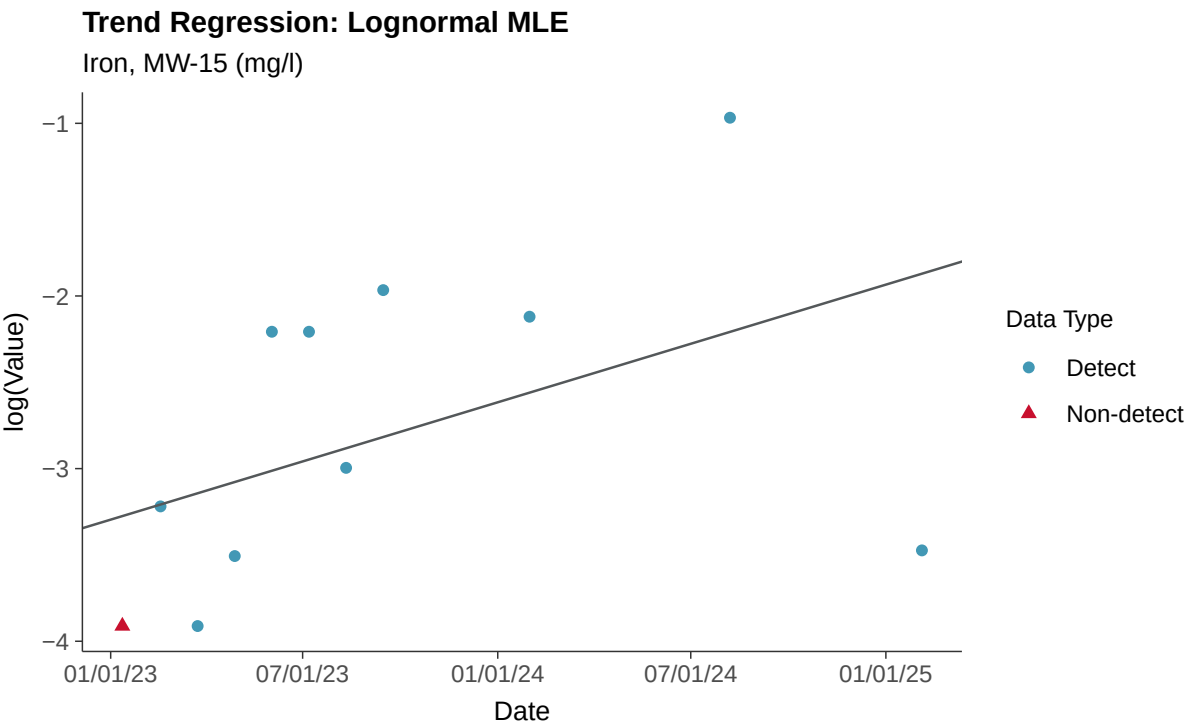
Iron, MW-15 (mg/l)



Gamma Q-Q plot using ROS Imputed Estimates

Iron, MW-15 (mg/l)

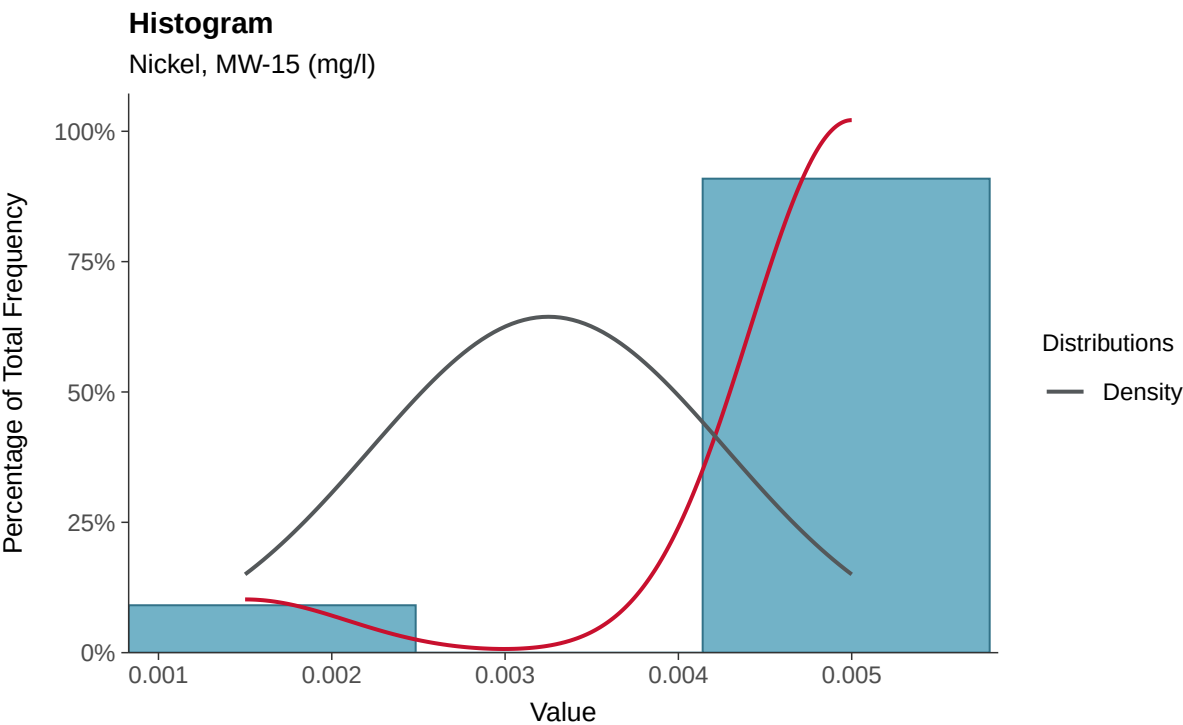
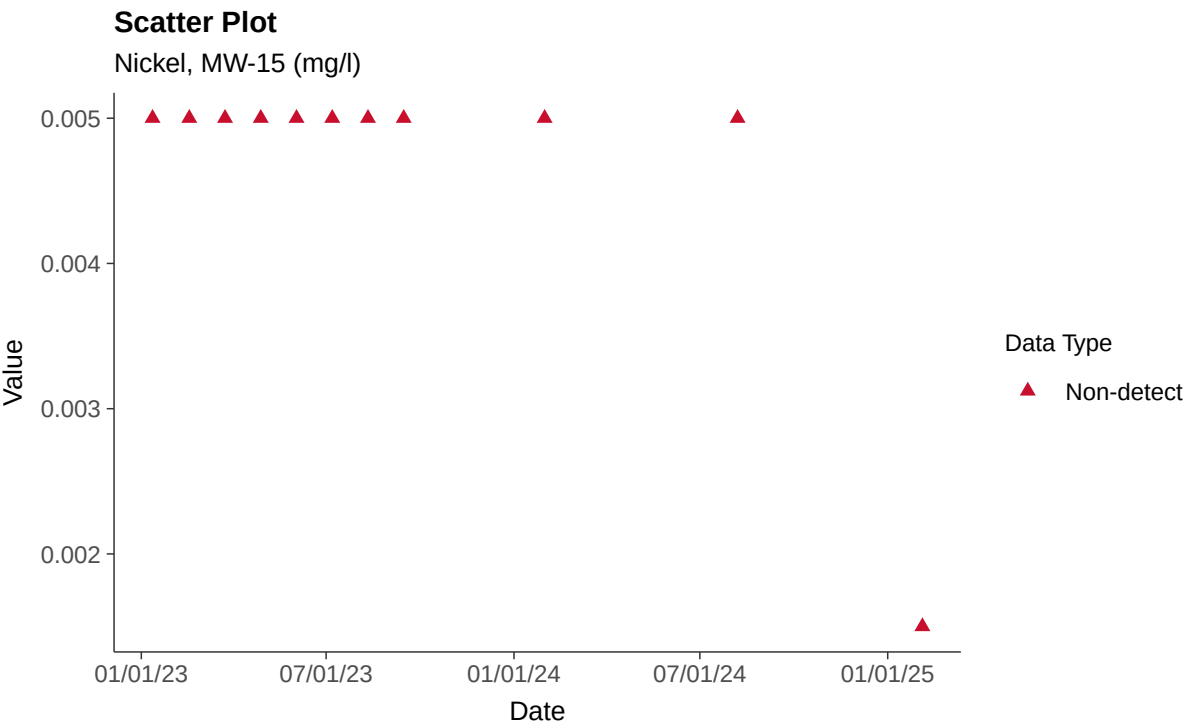


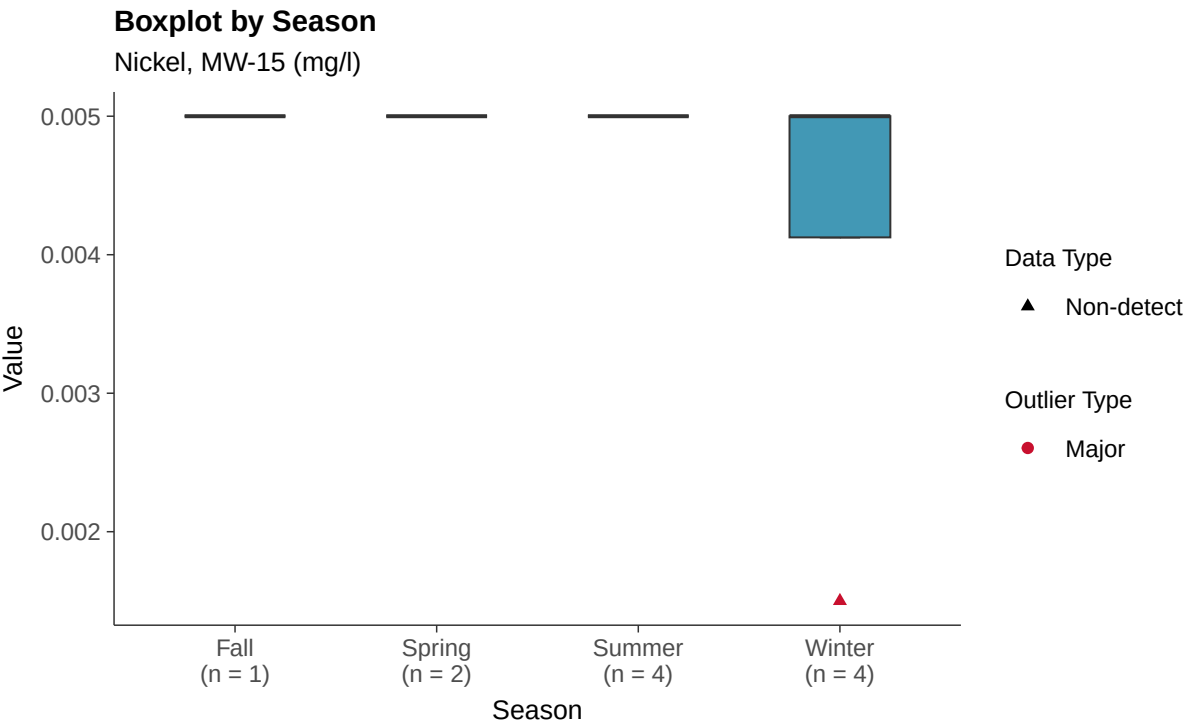
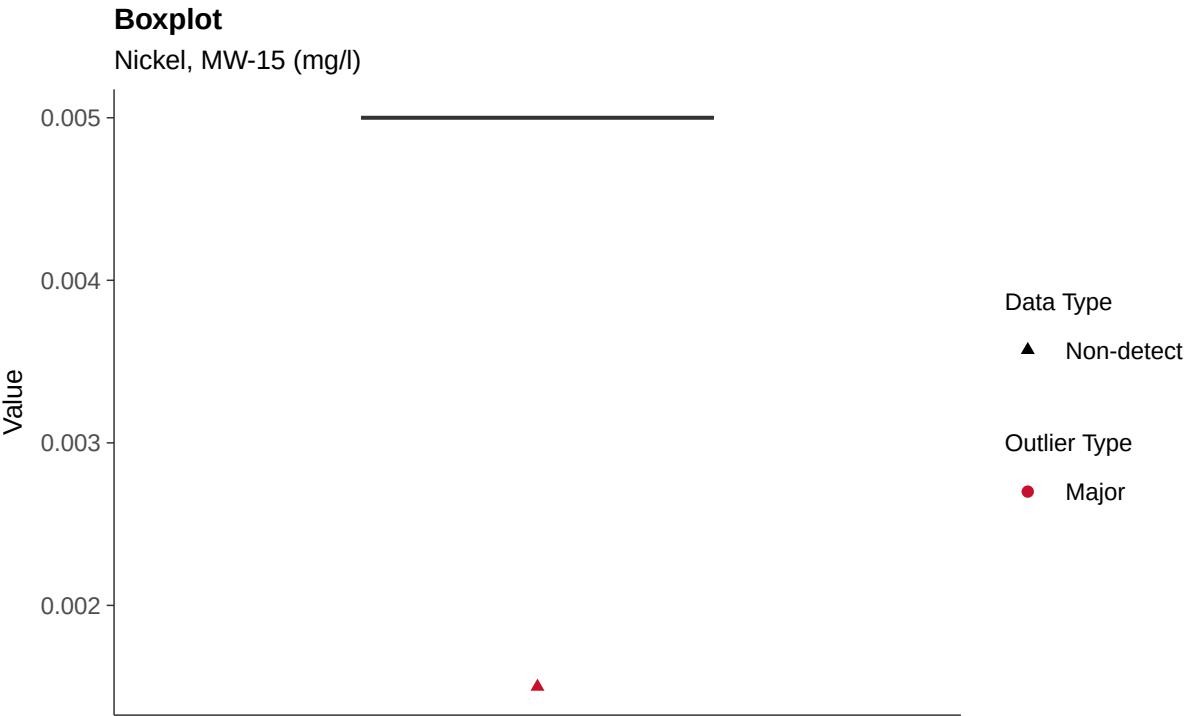




Part 115: Nickel, MW-15

ID: 22_5_119

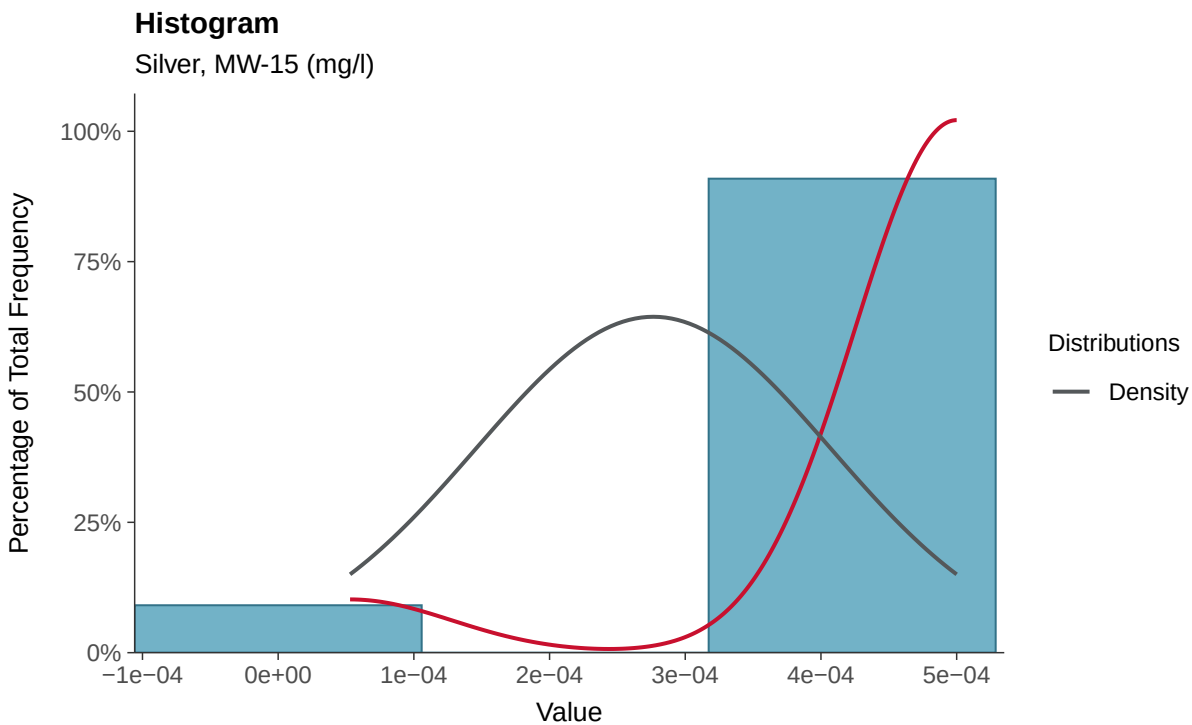
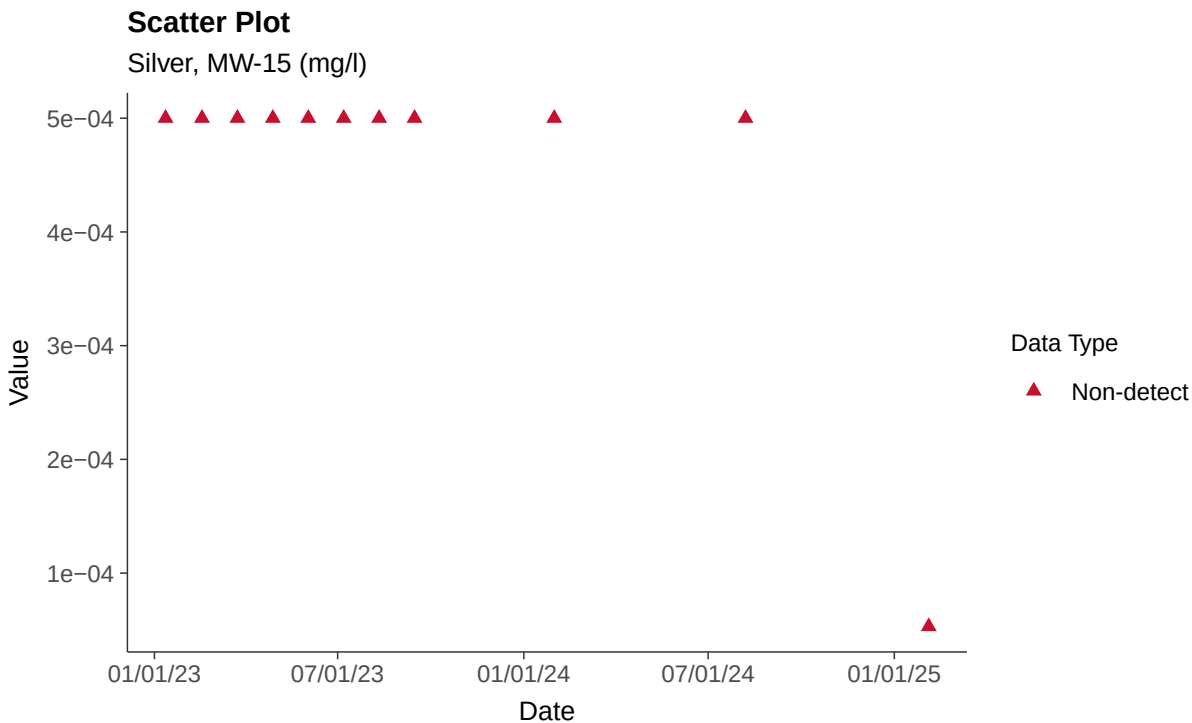


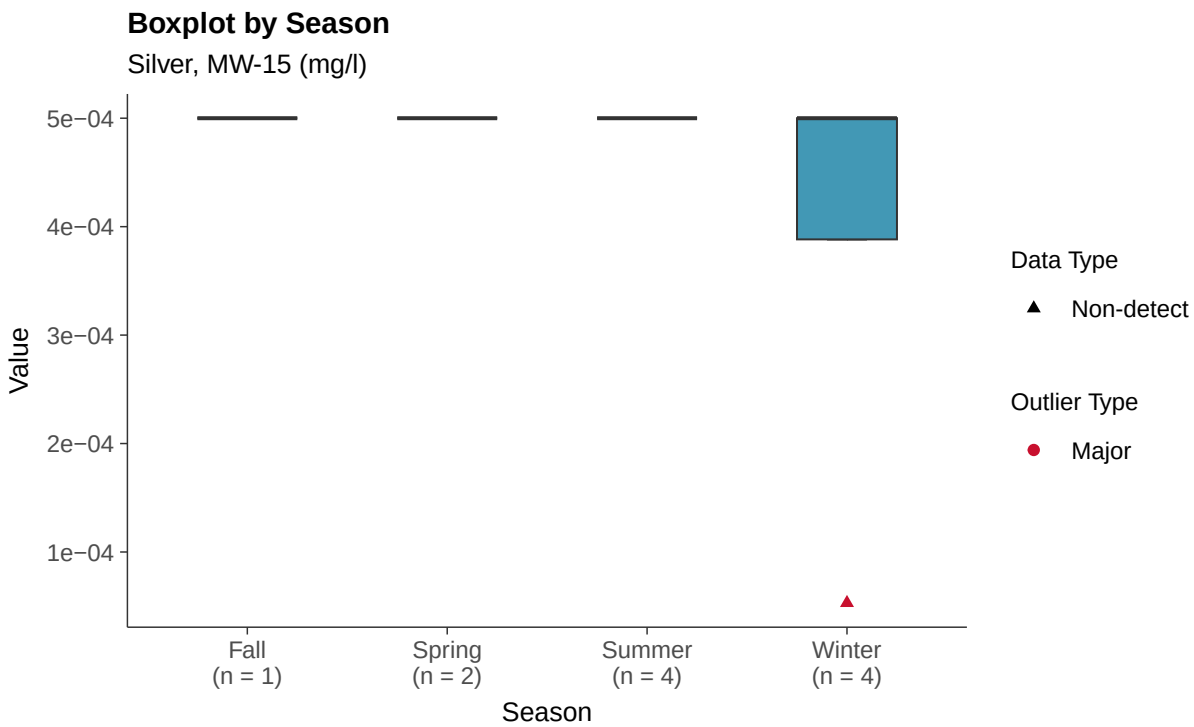
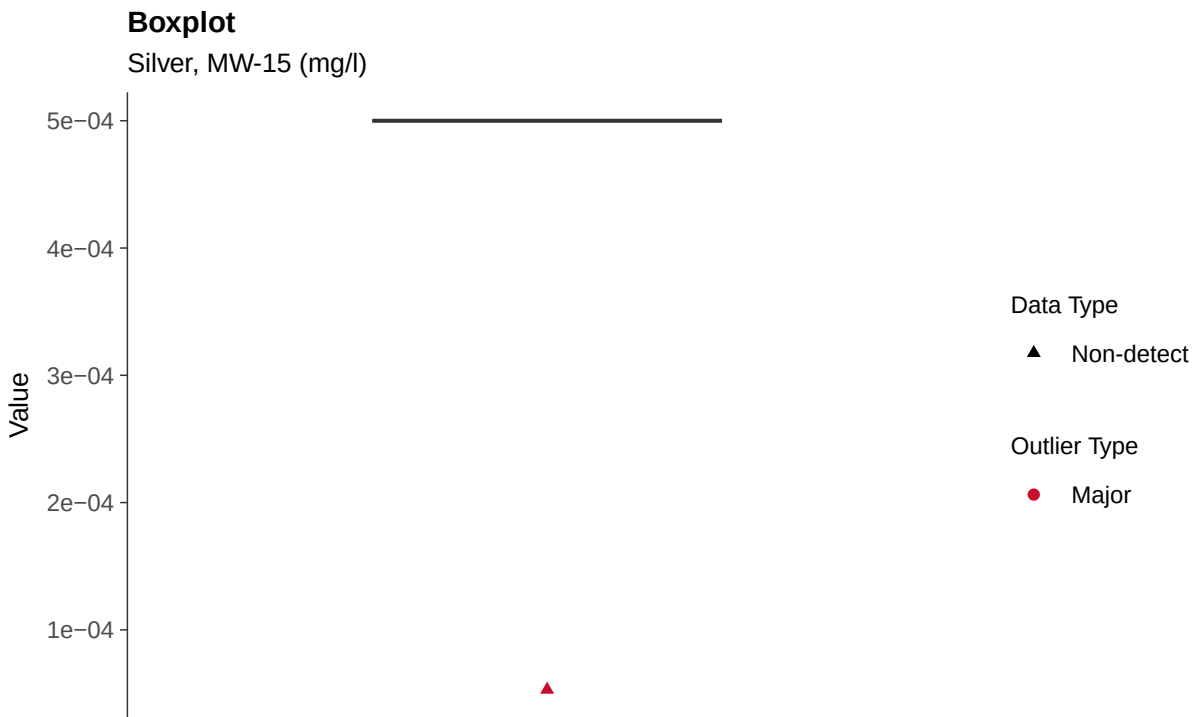




Part 115: Silver, MW-15

ID: 22_5_123

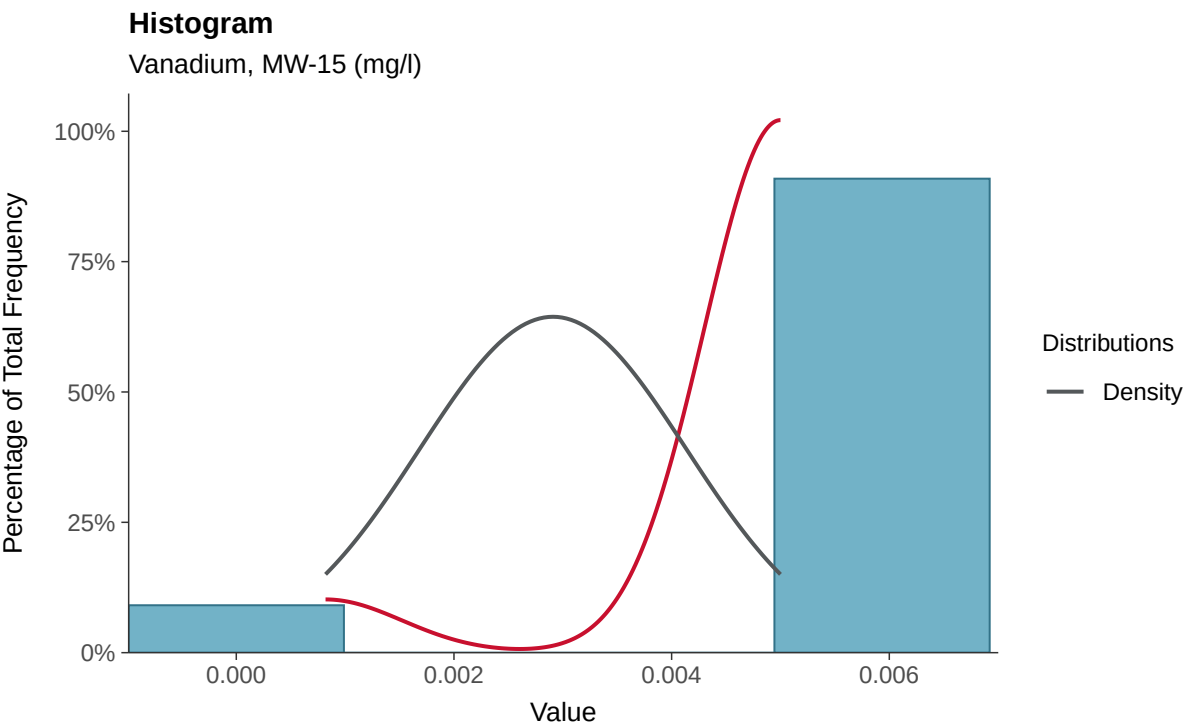
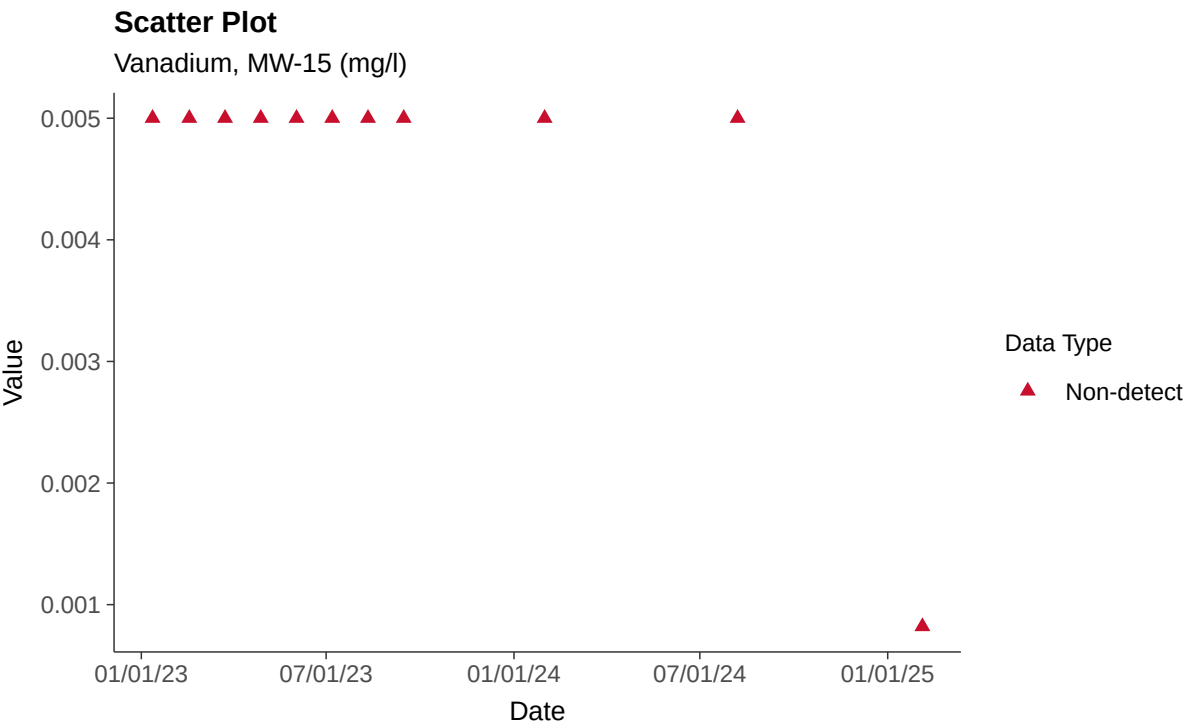


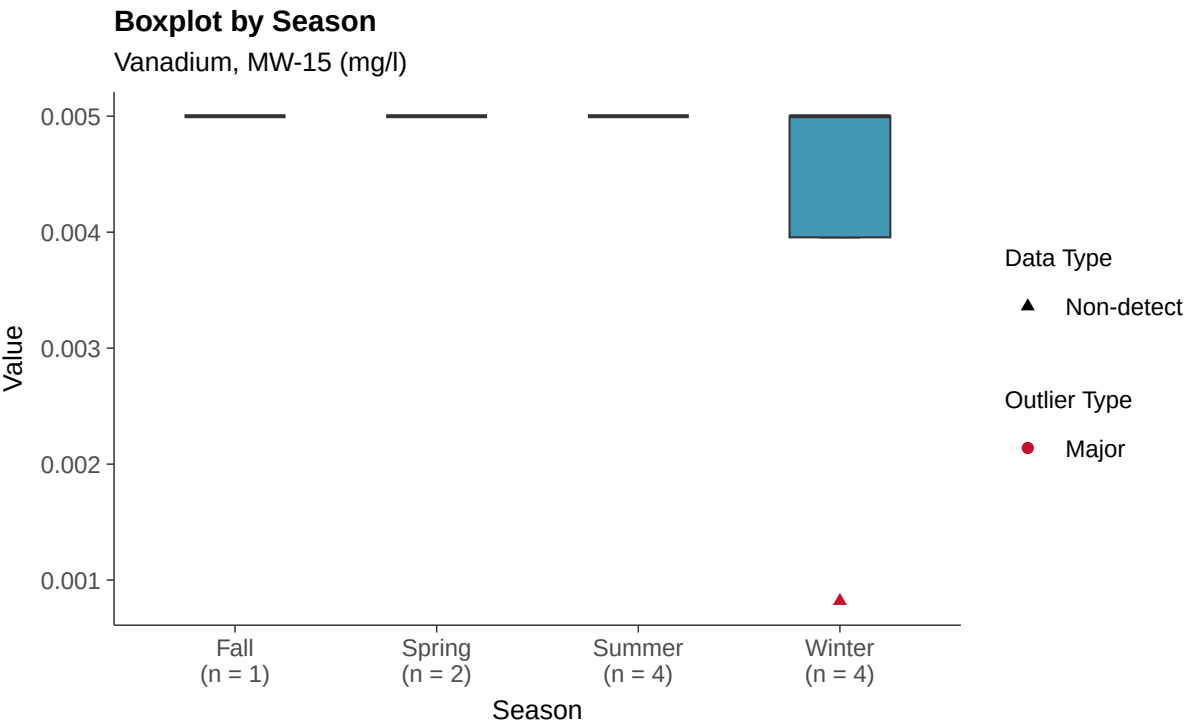
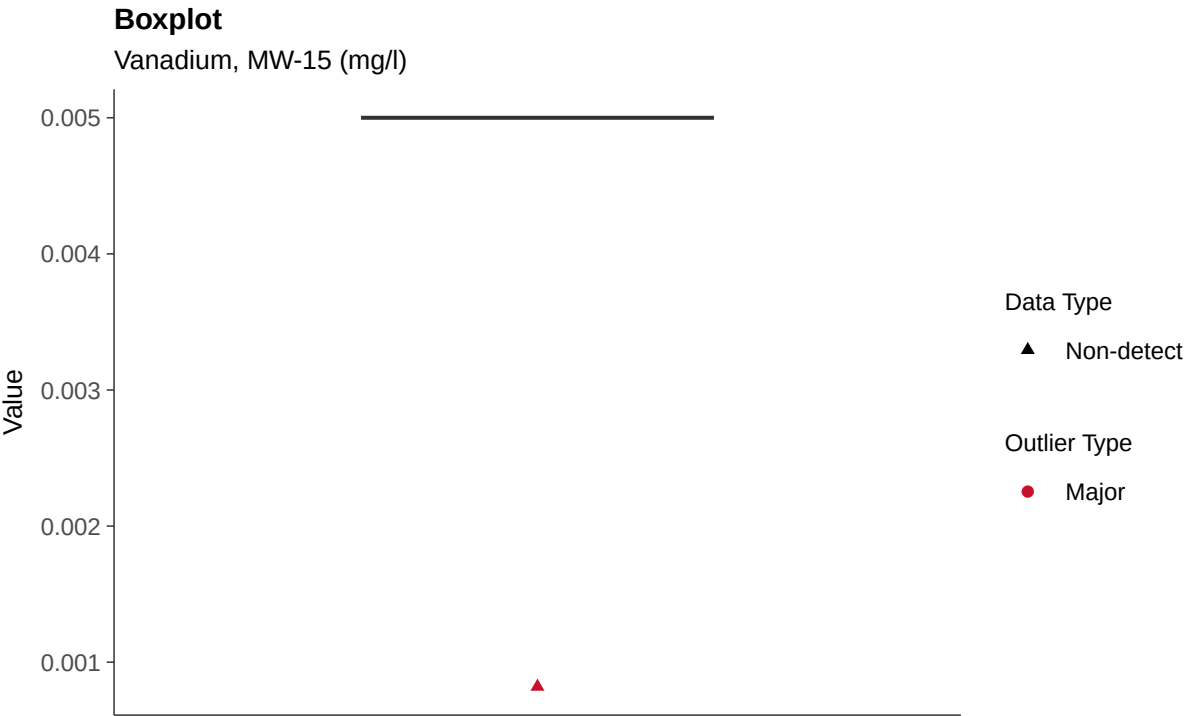




Part 115: Vanadium, MW-15

ID: 22_5_128

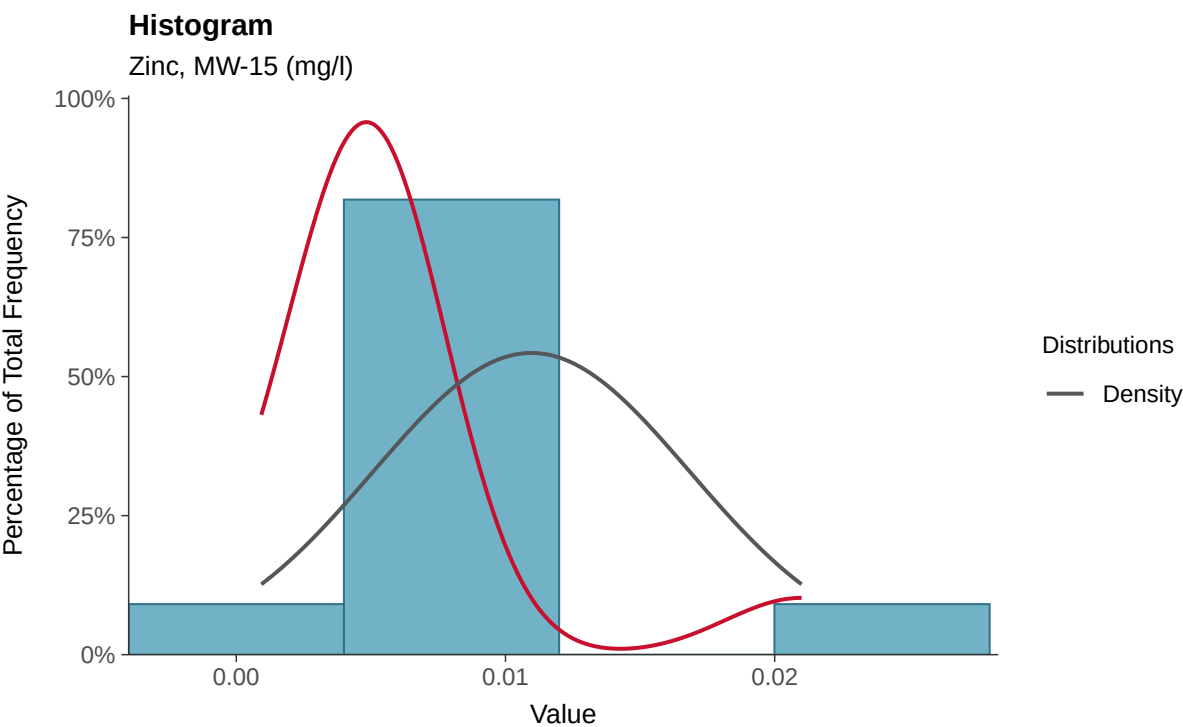
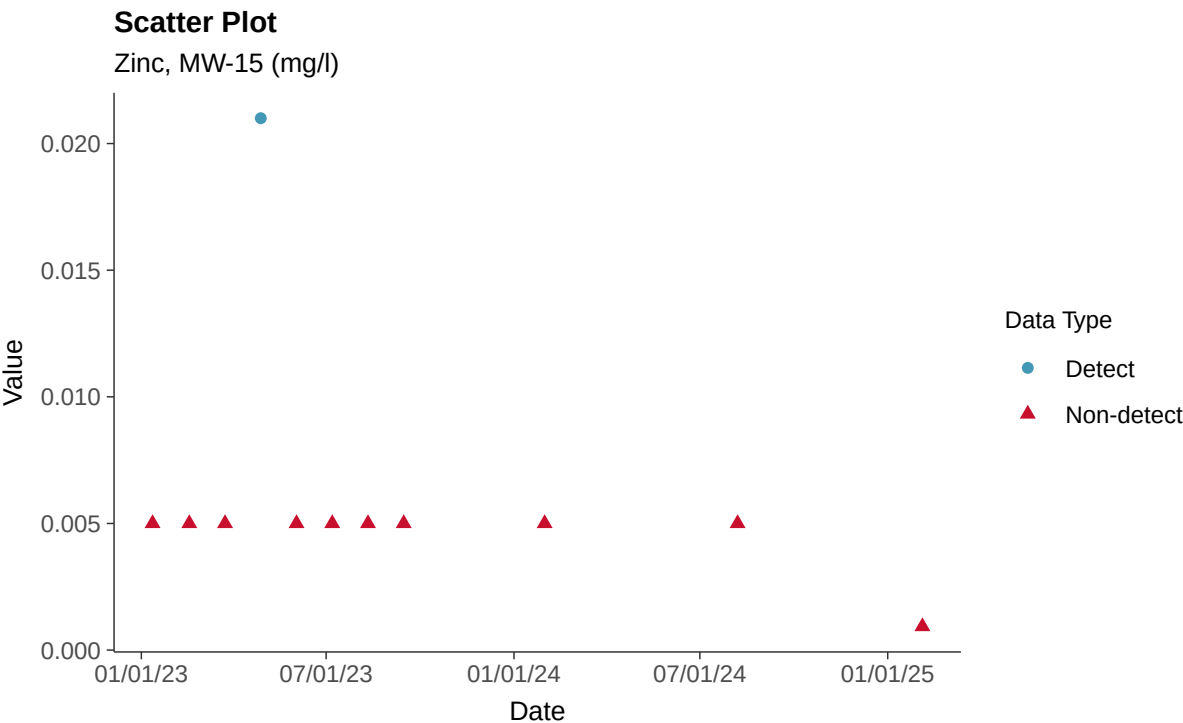


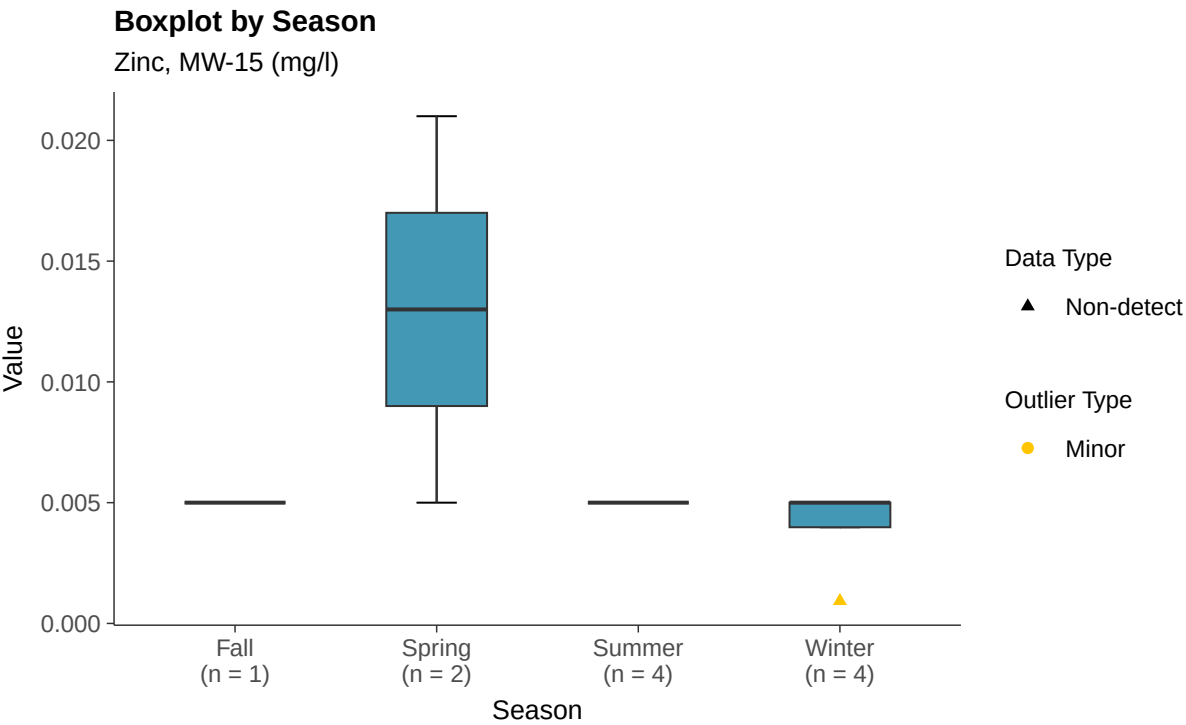
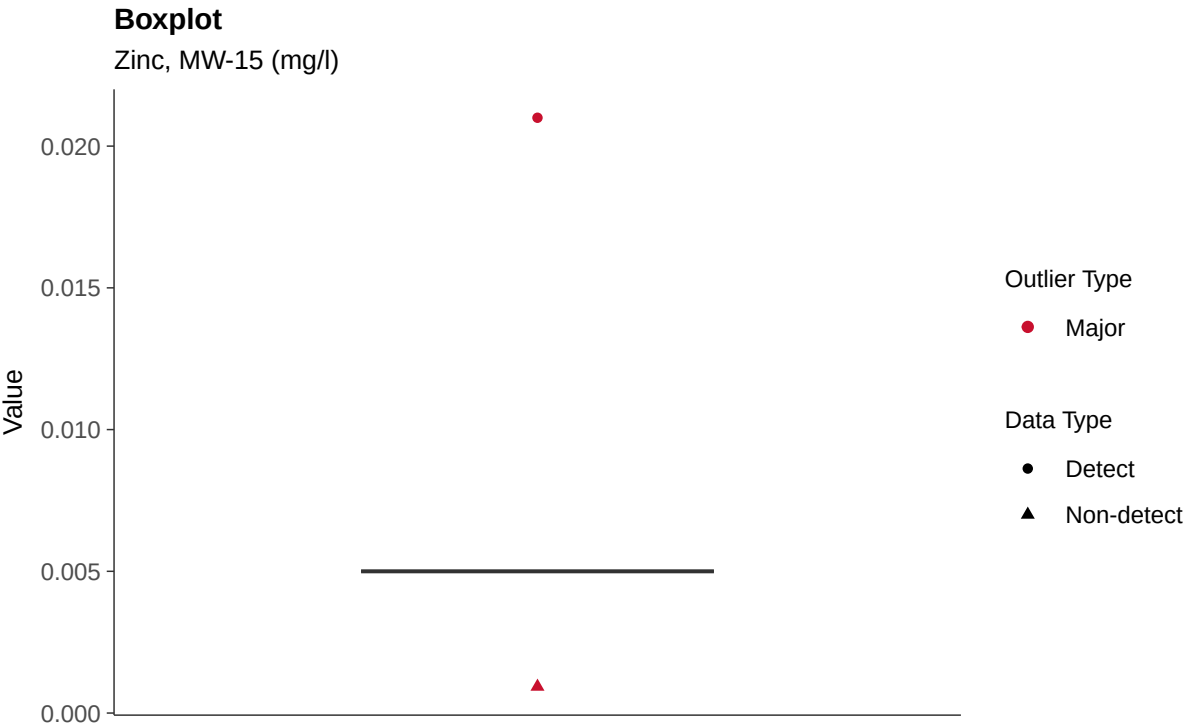




Part 115: Zinc, MW-15

ID: 22_5_129

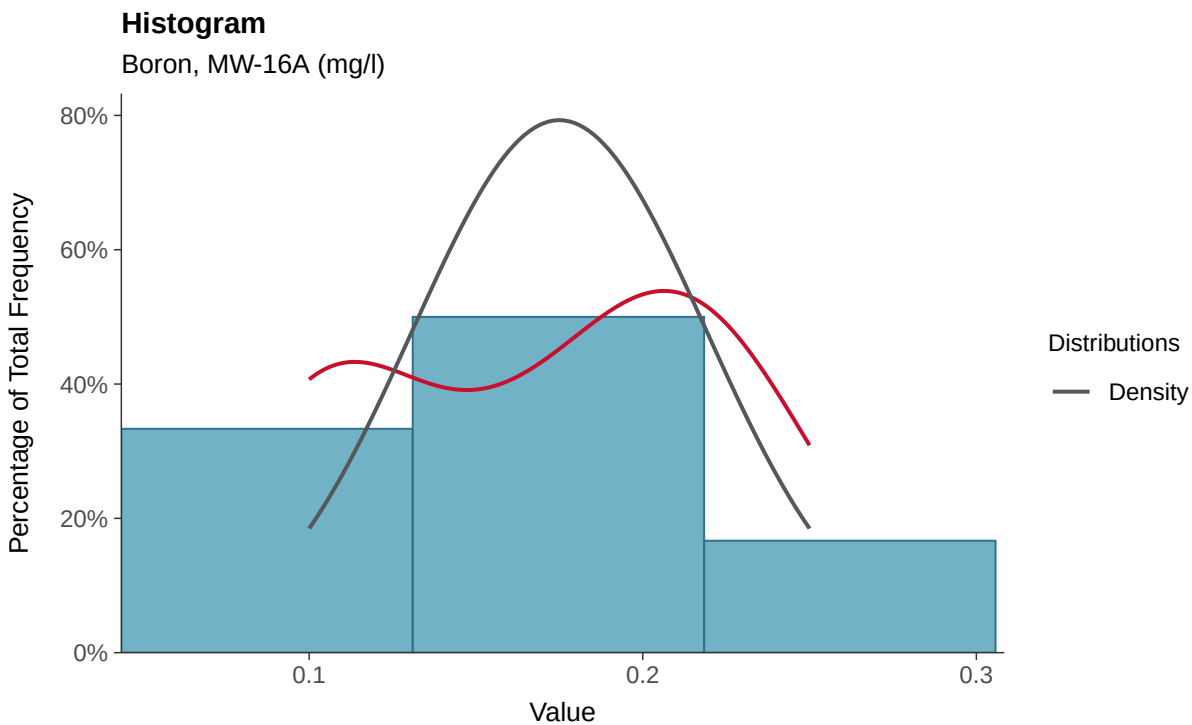
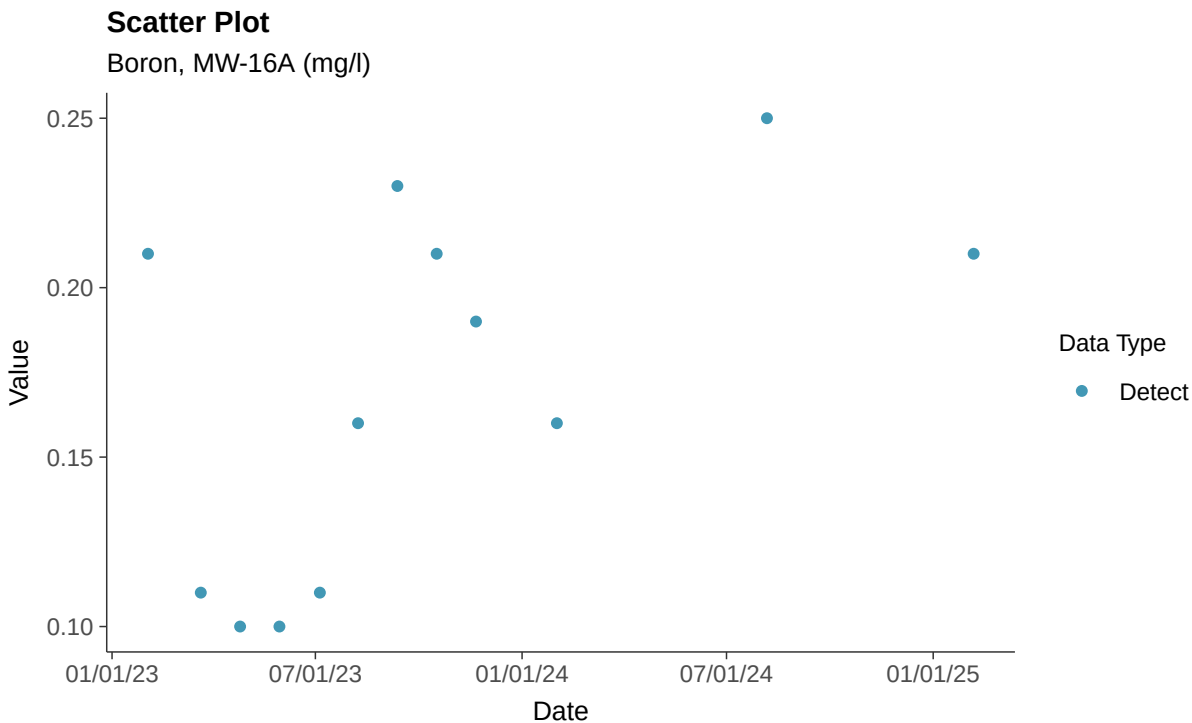


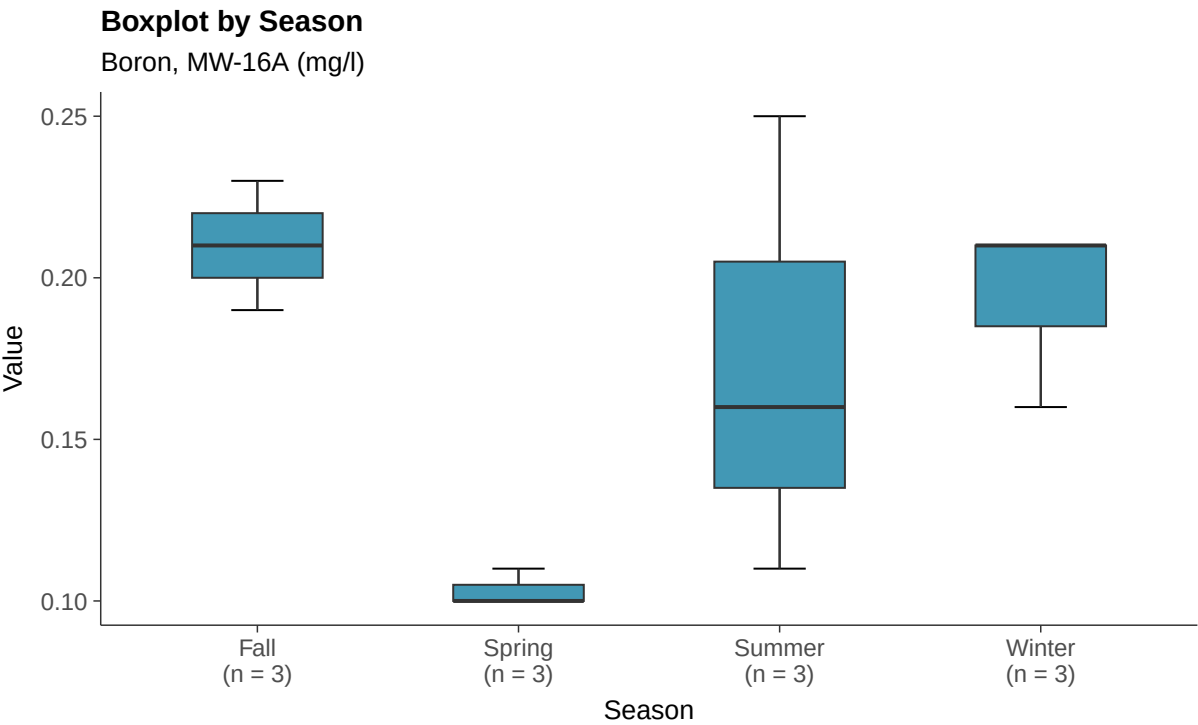
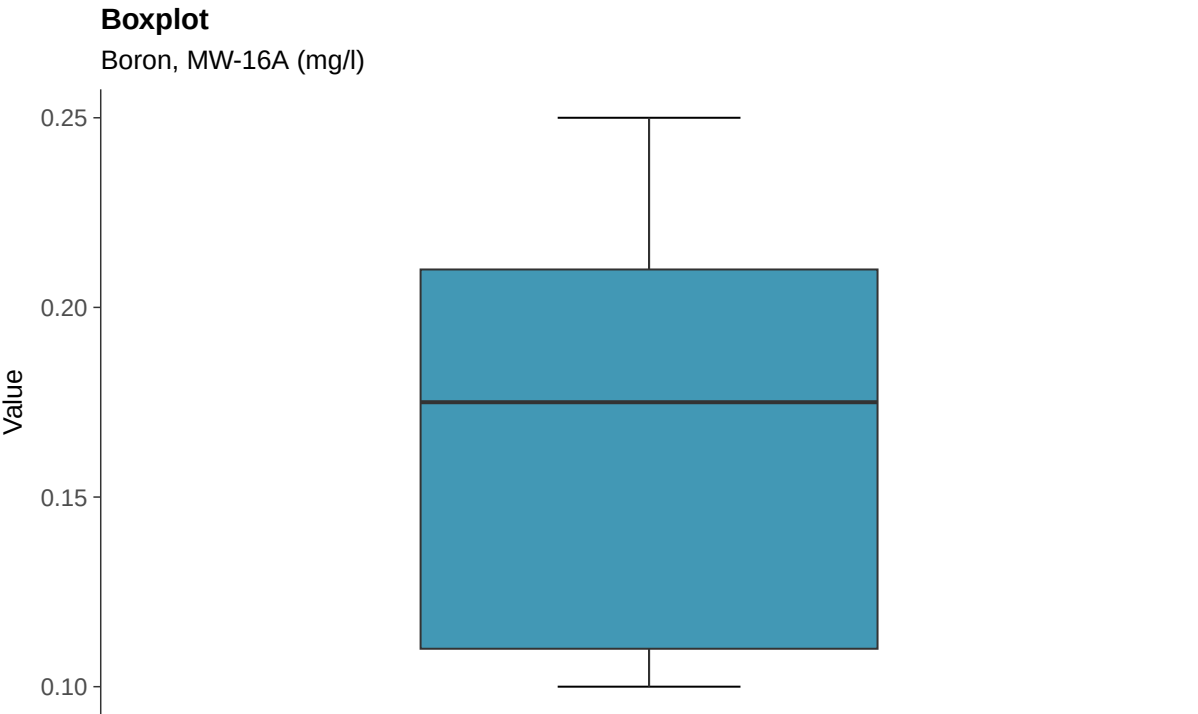


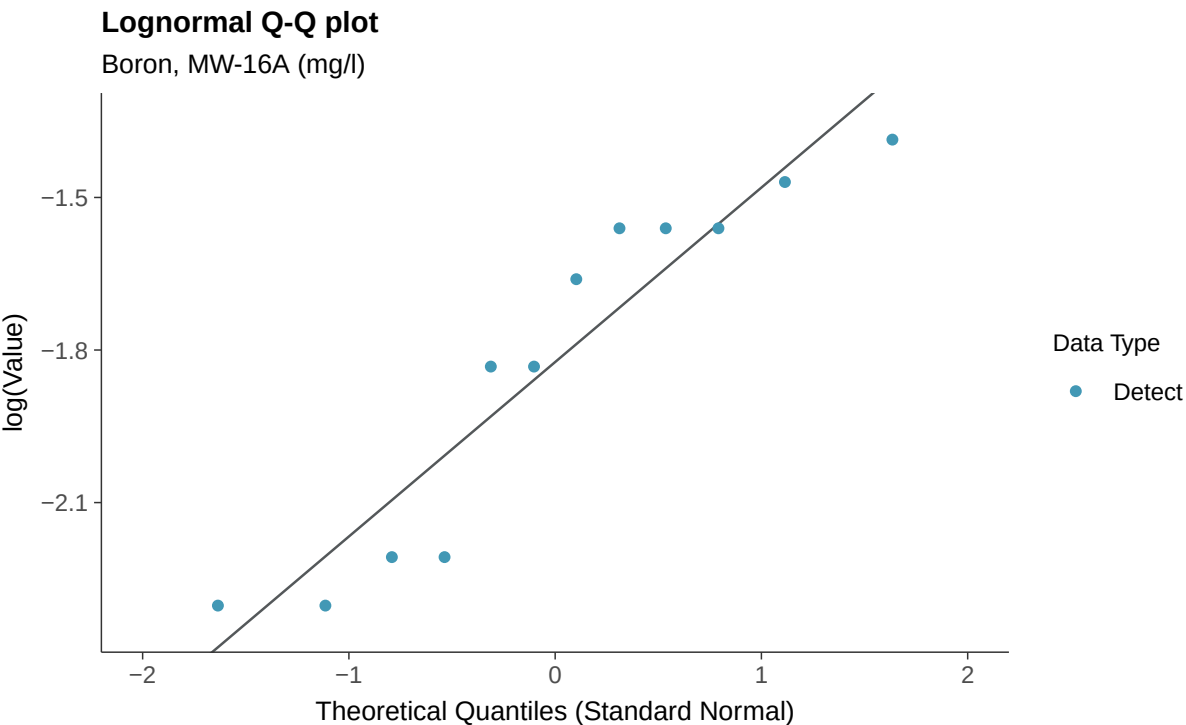
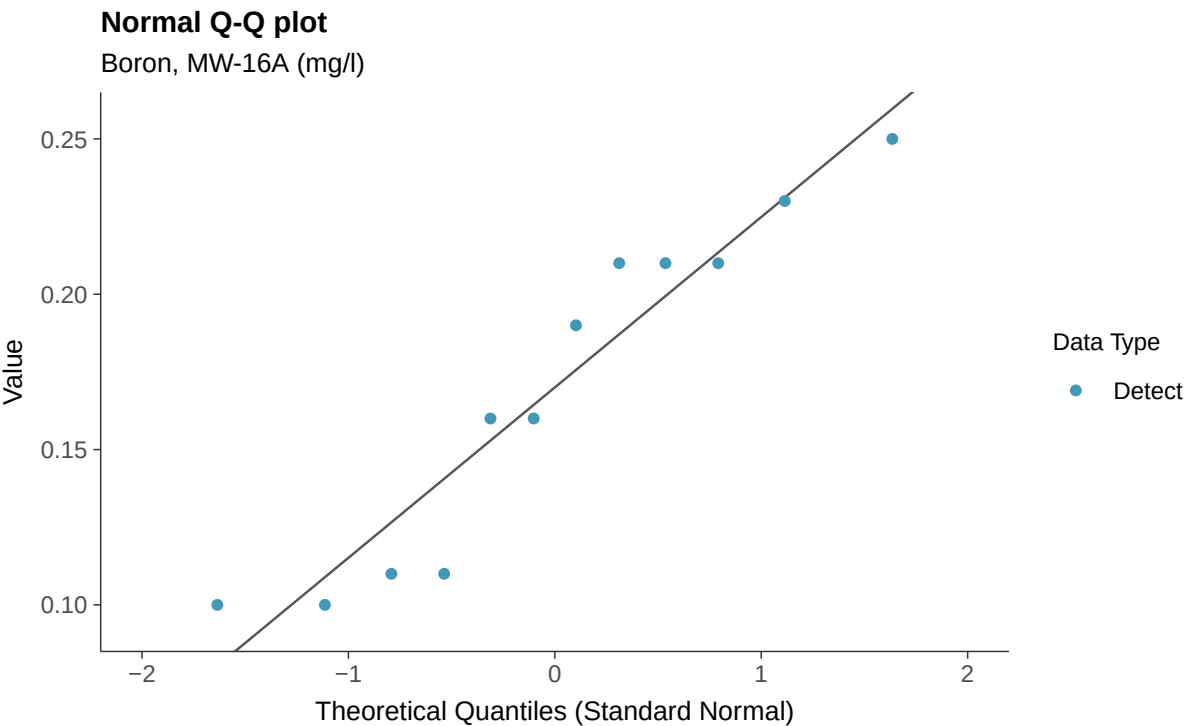


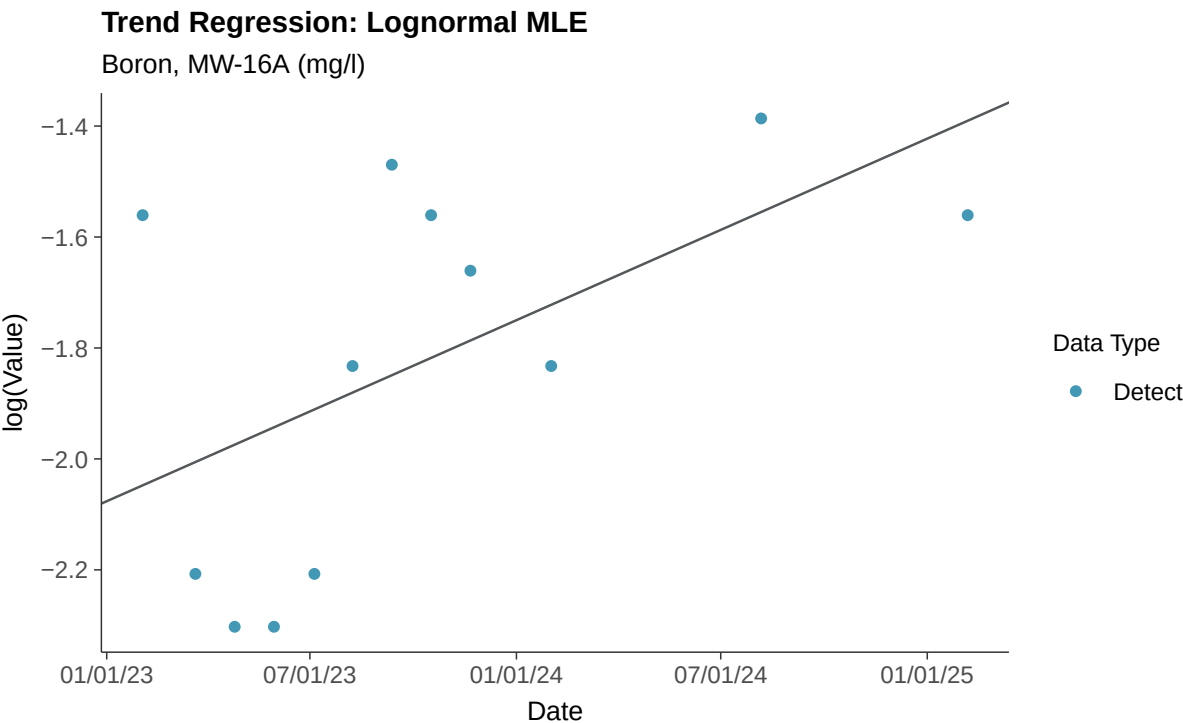
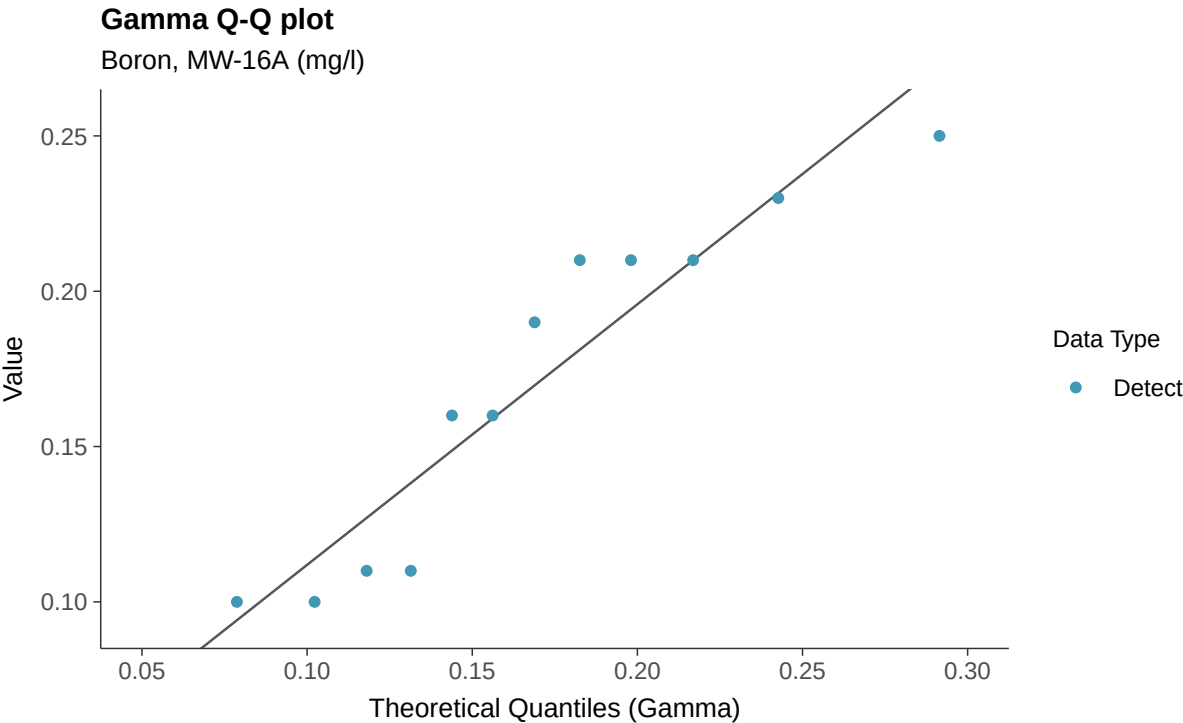
Appendix III: Boron, MW-16A

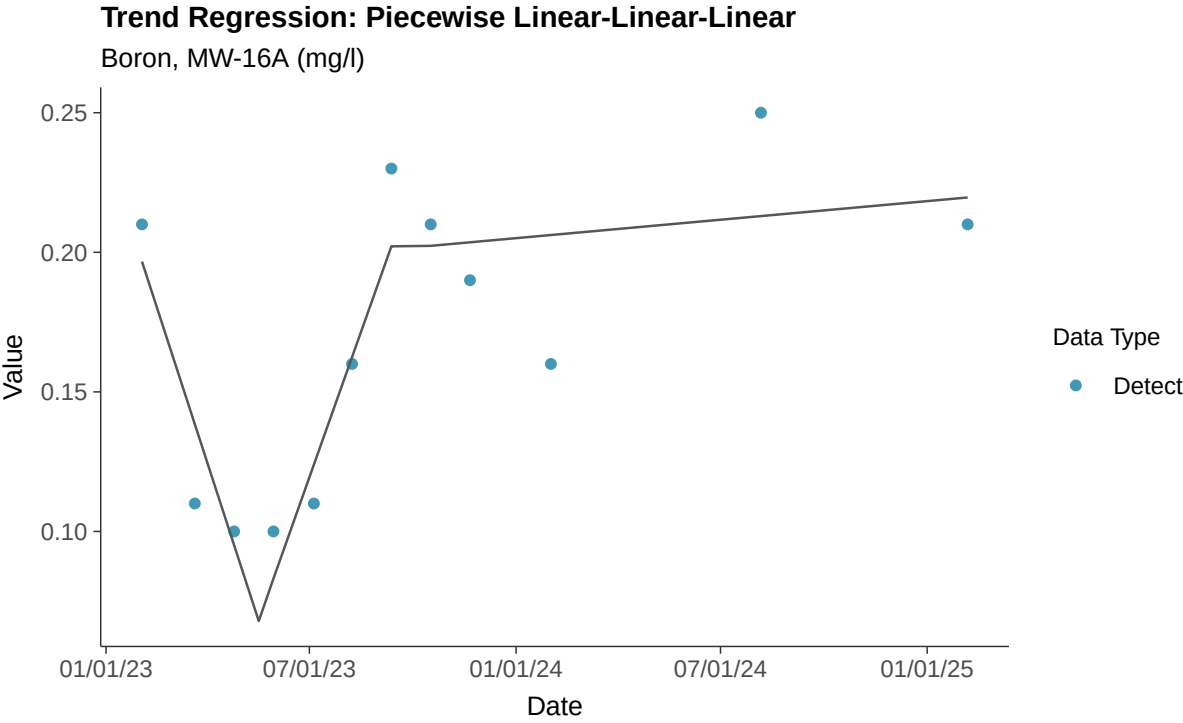
ID: 23_2_105







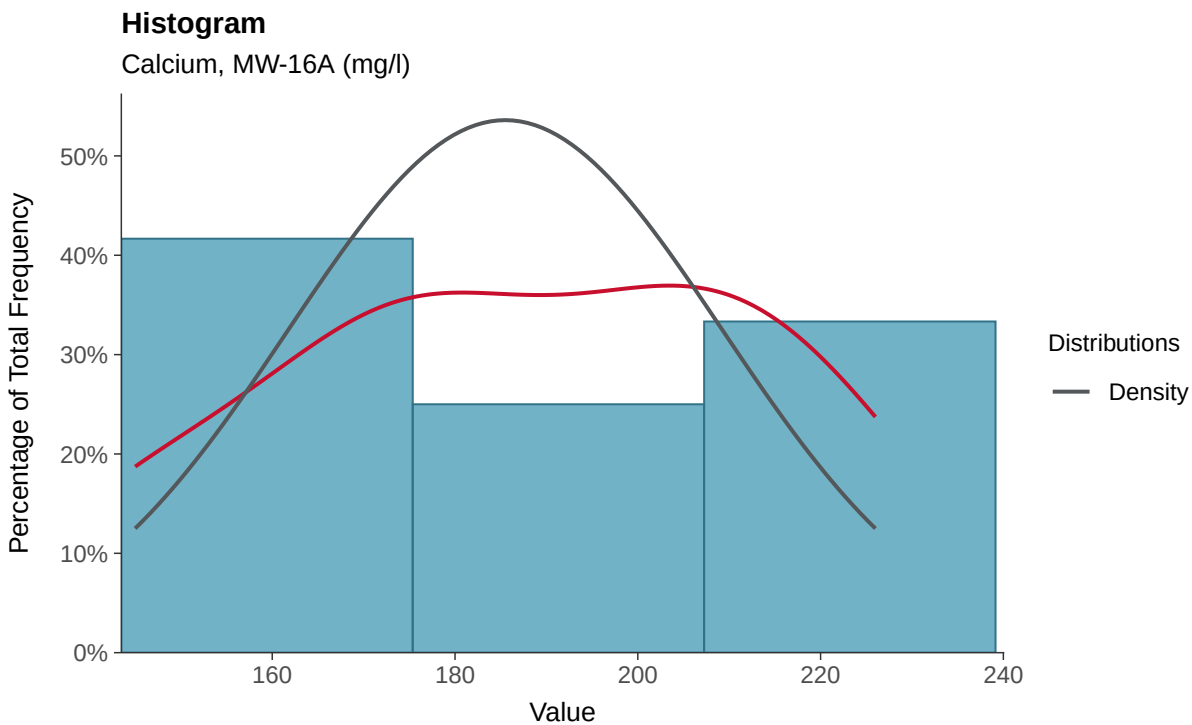
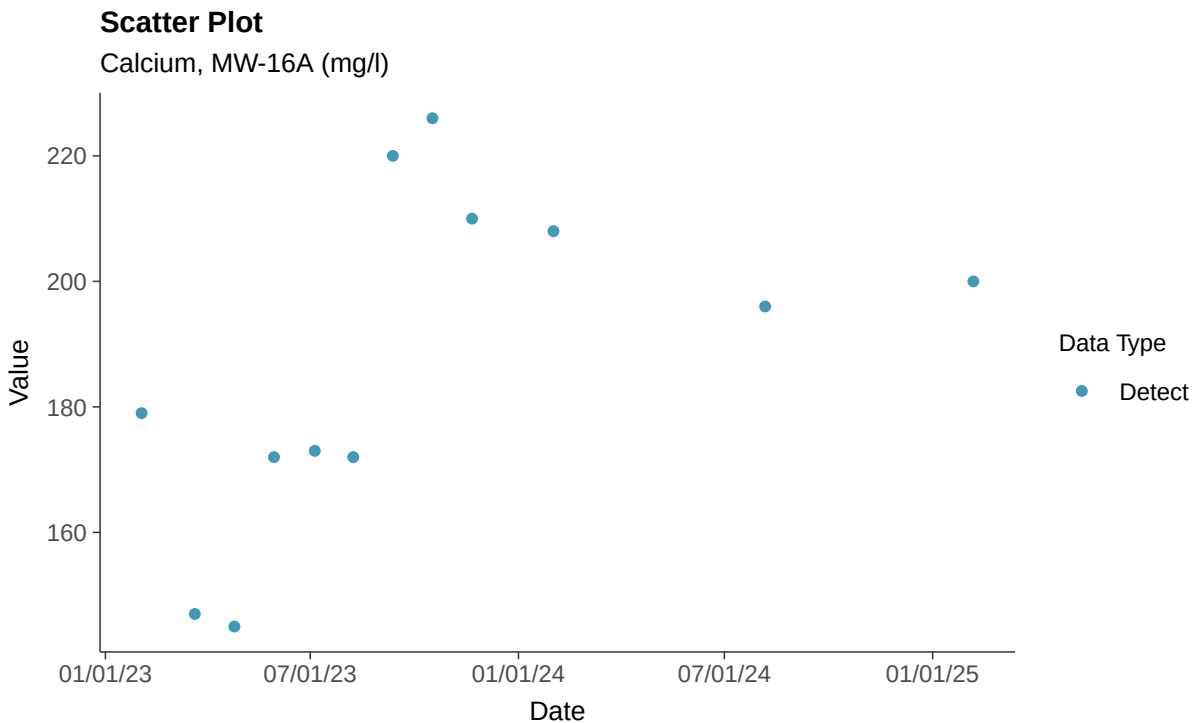


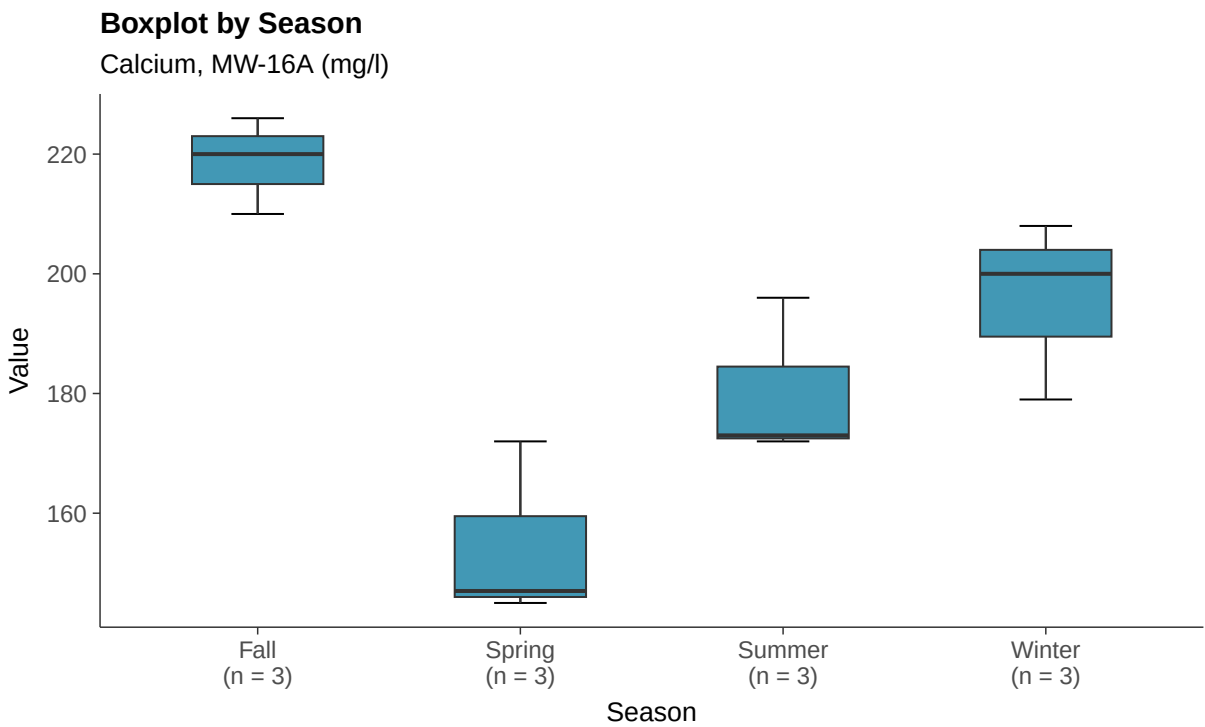
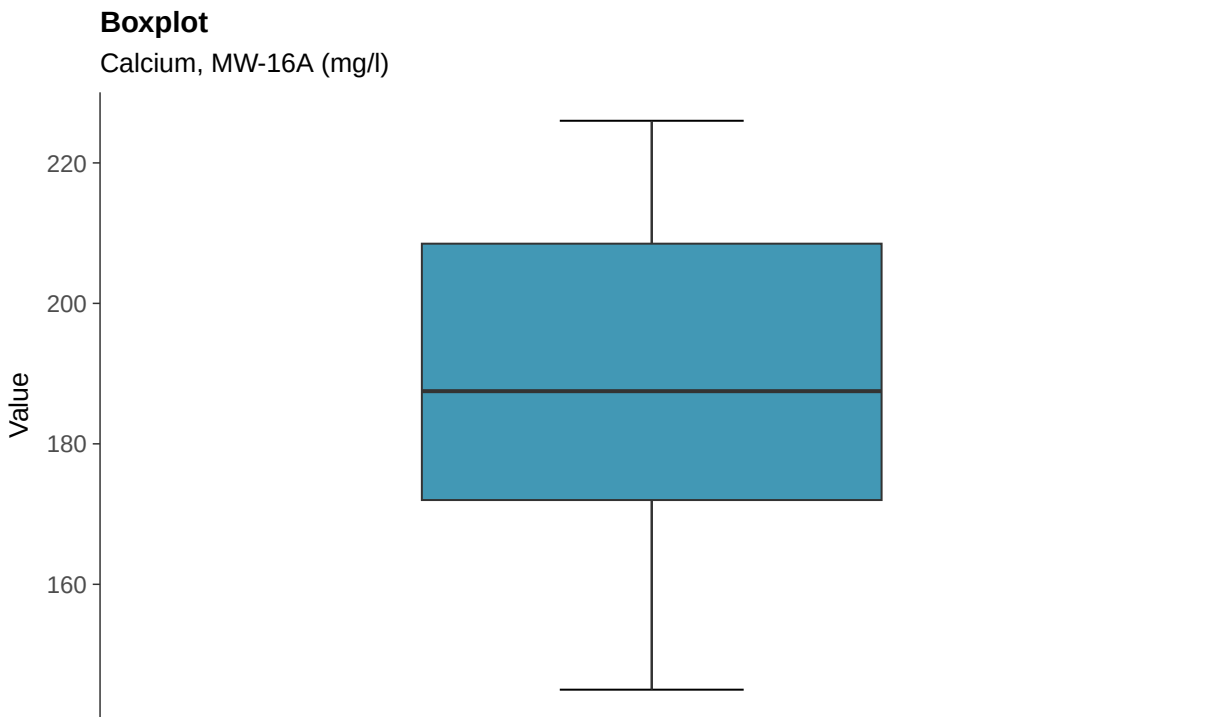


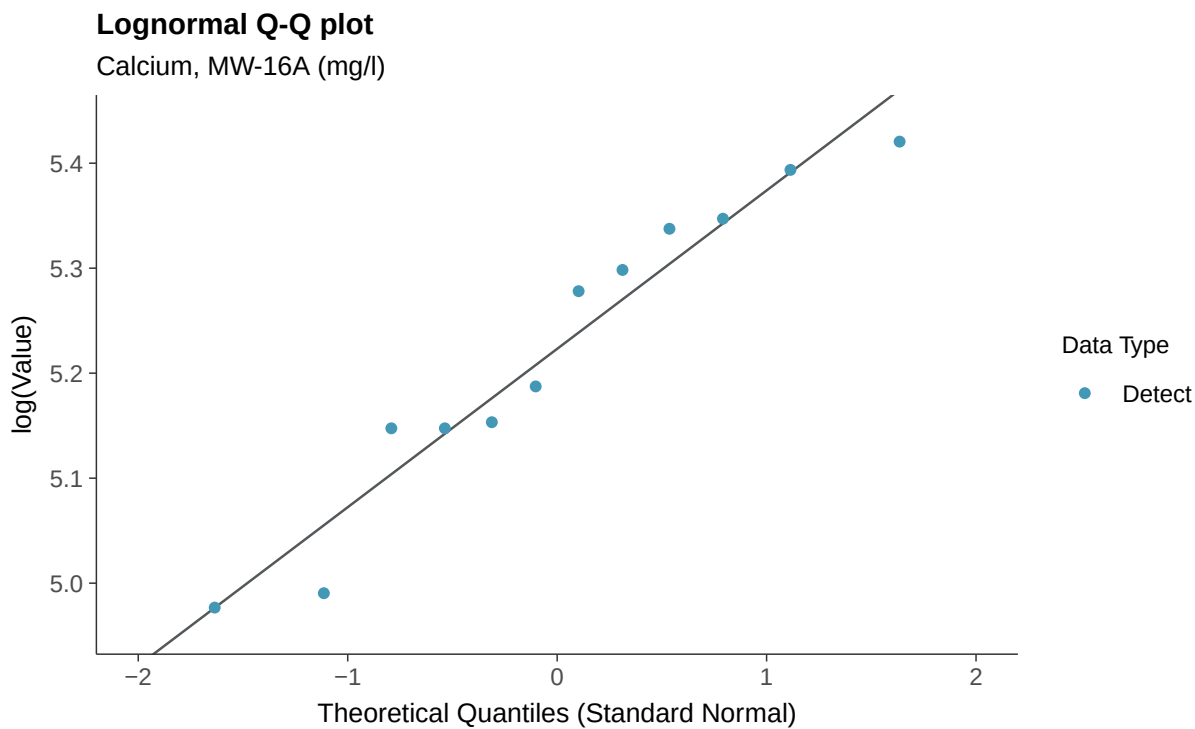
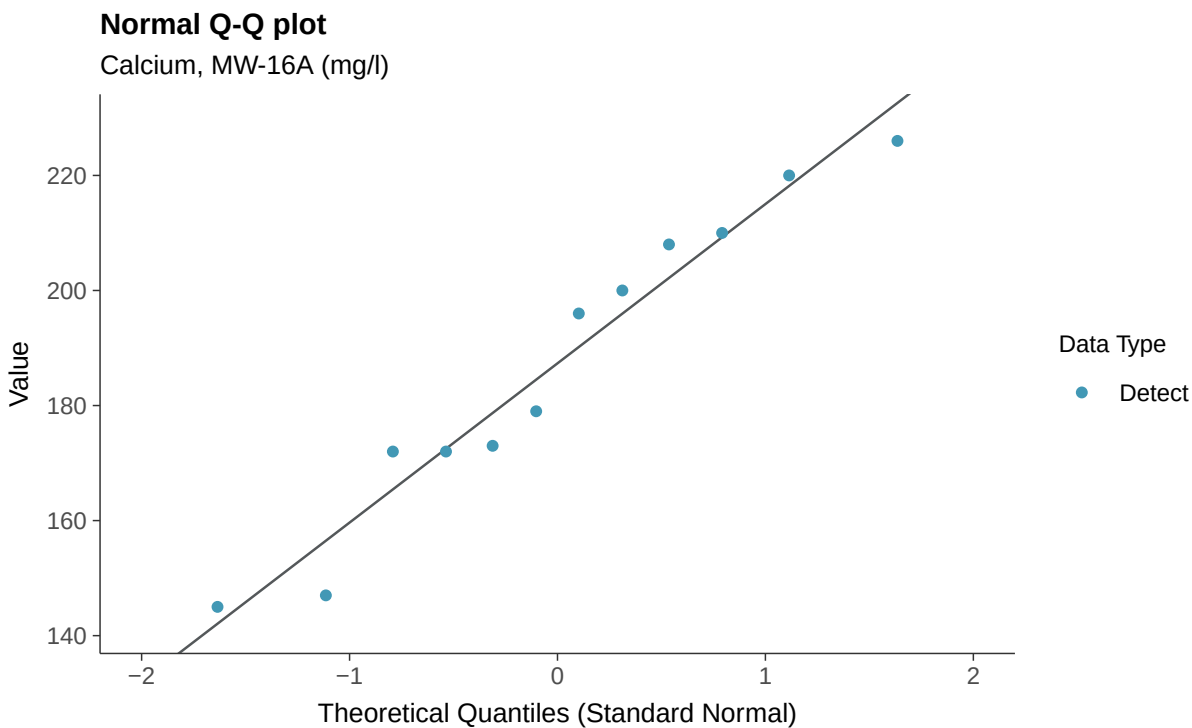


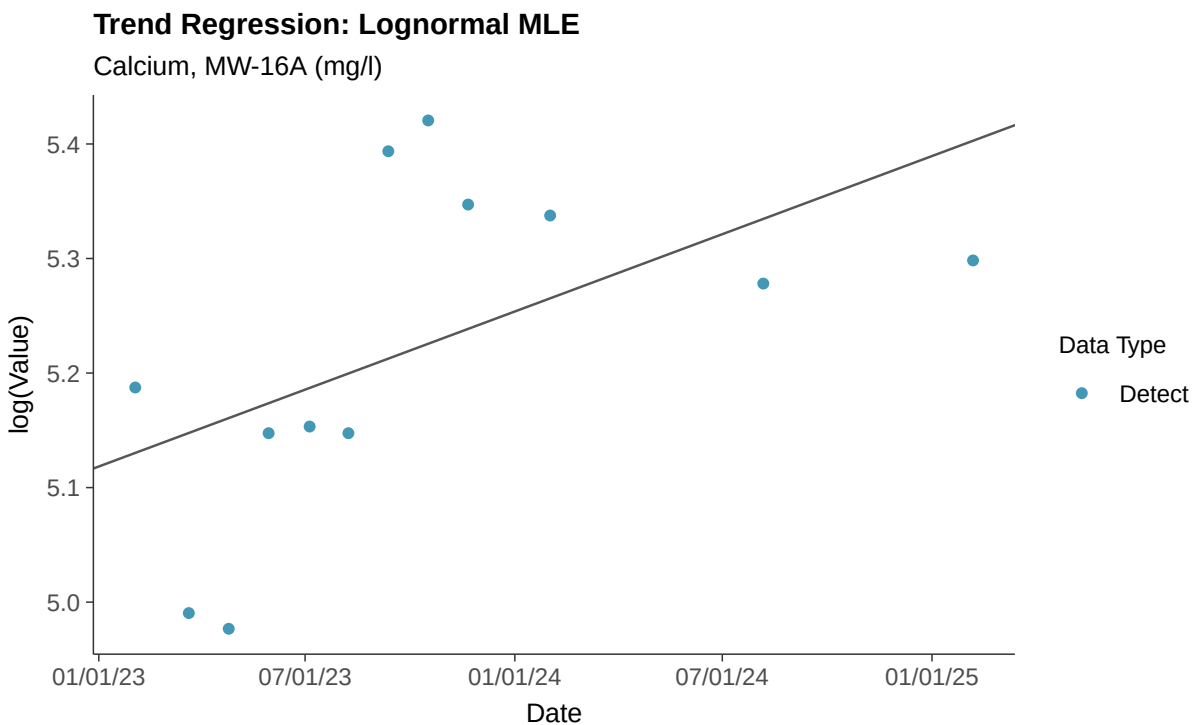
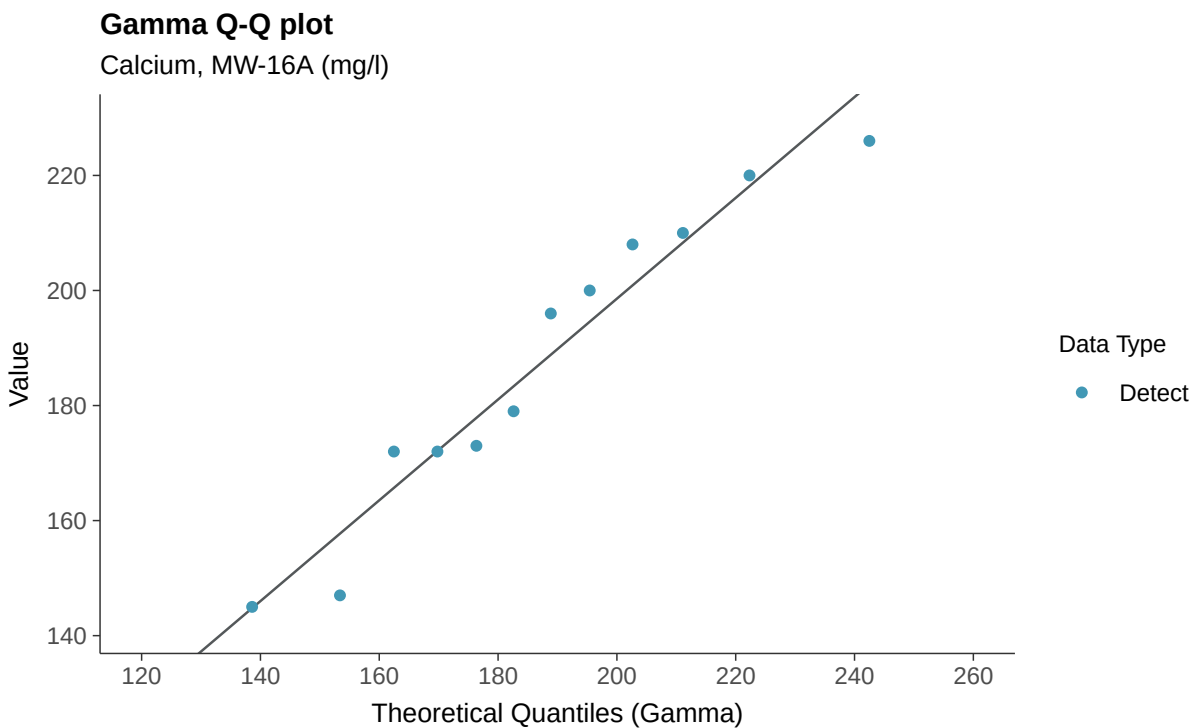
Appendix III: Calcium, MW-16A

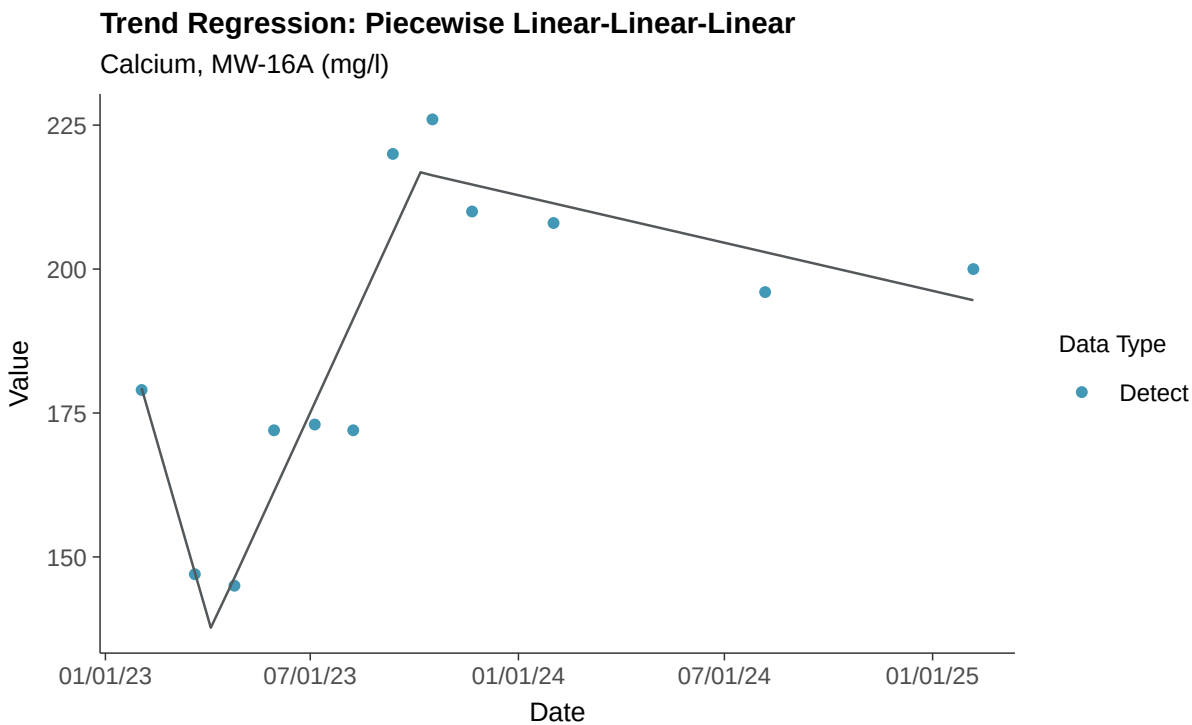
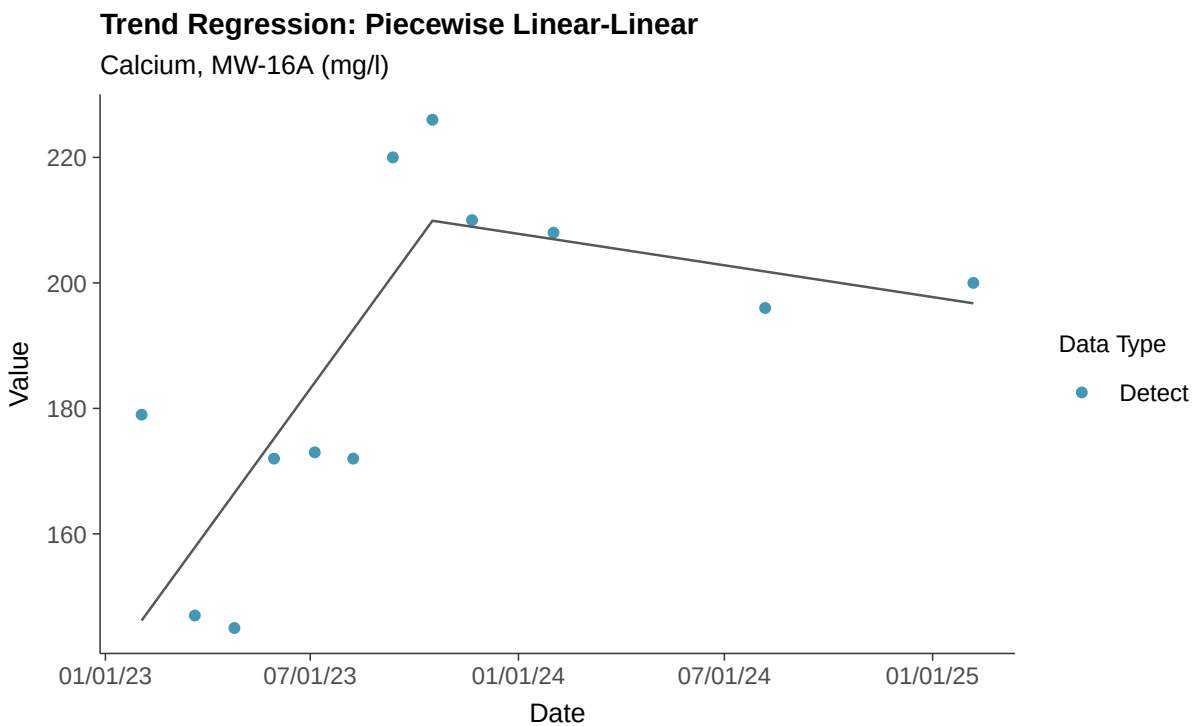
ID: 23_2_107







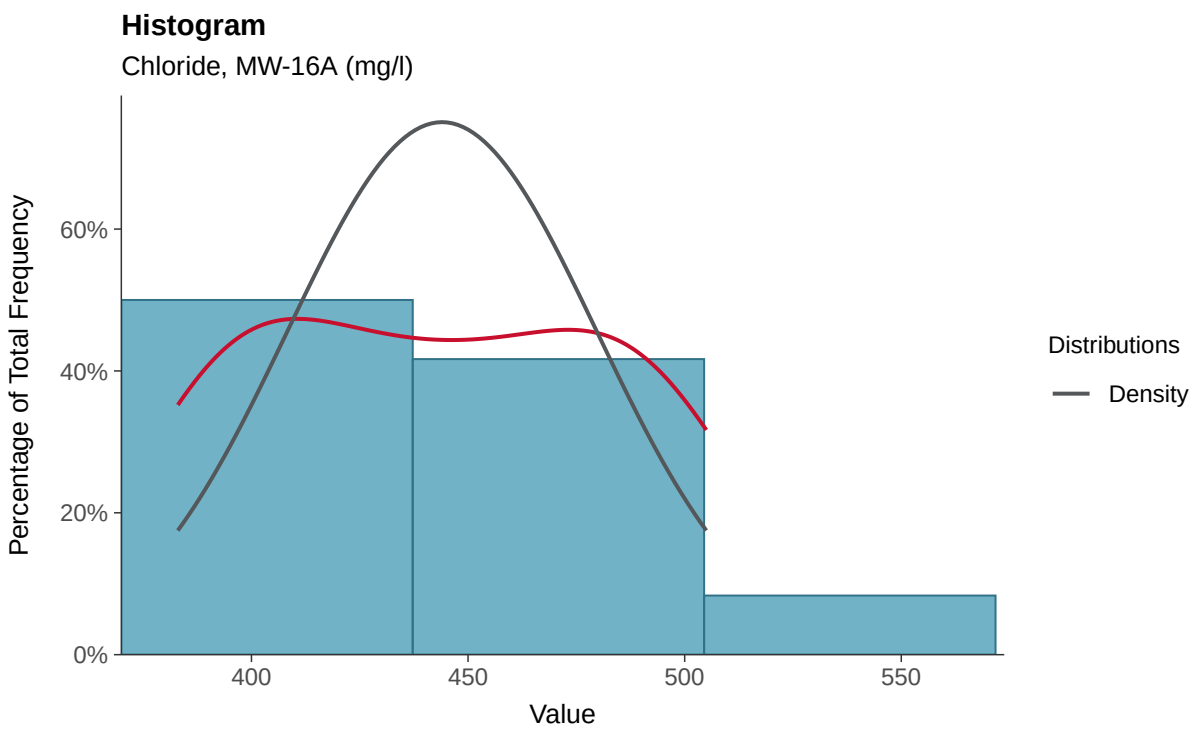
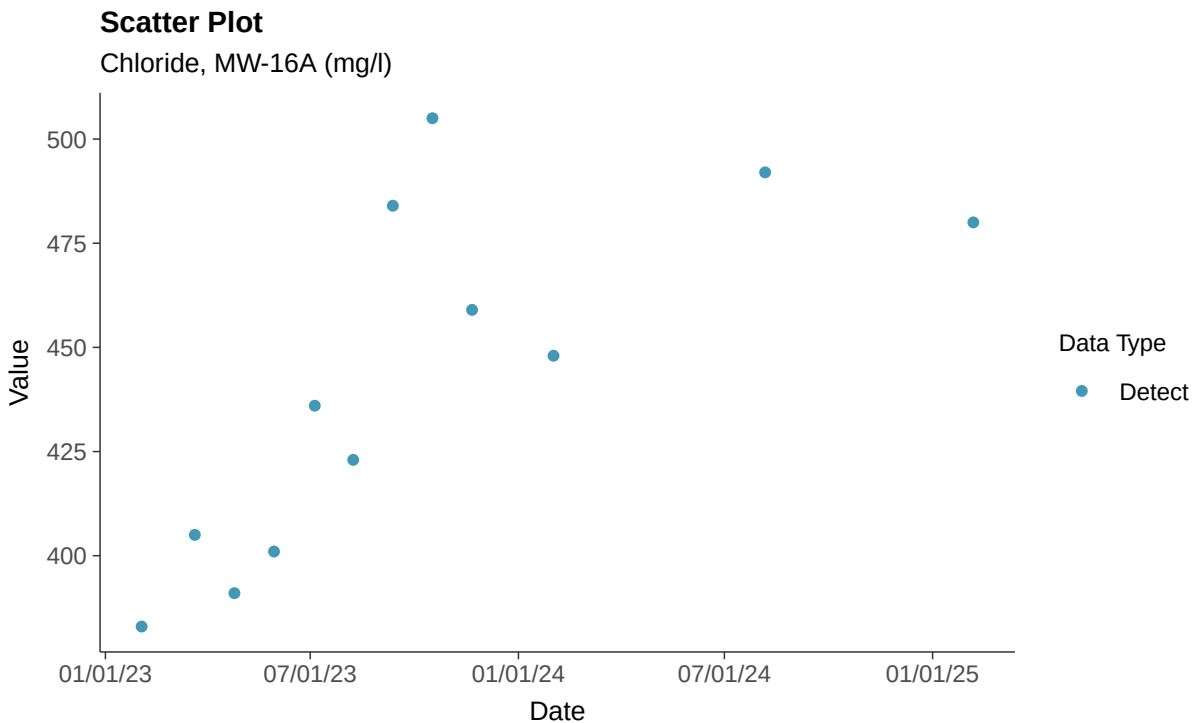


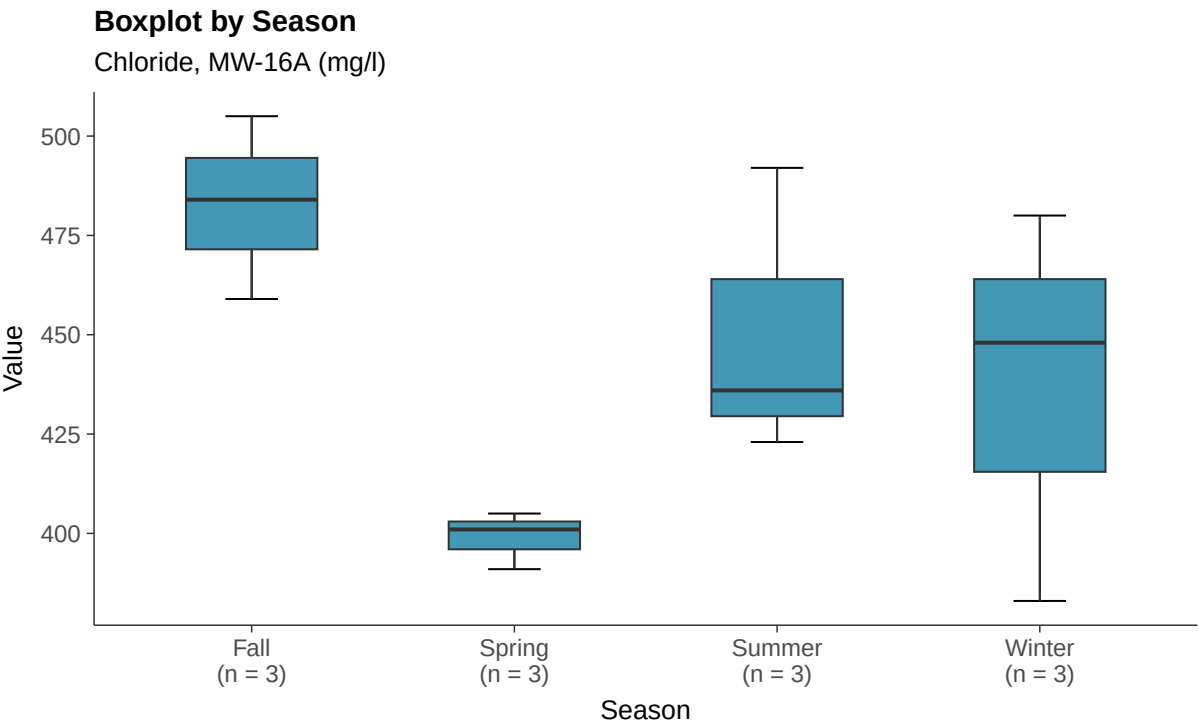
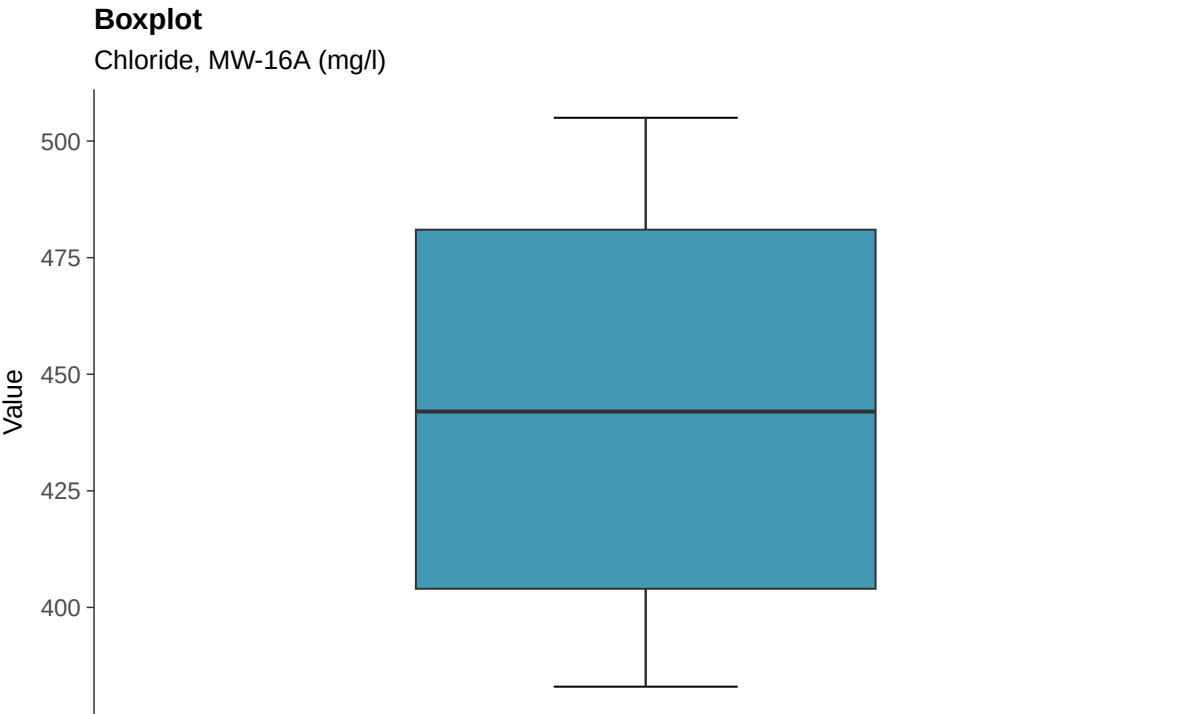


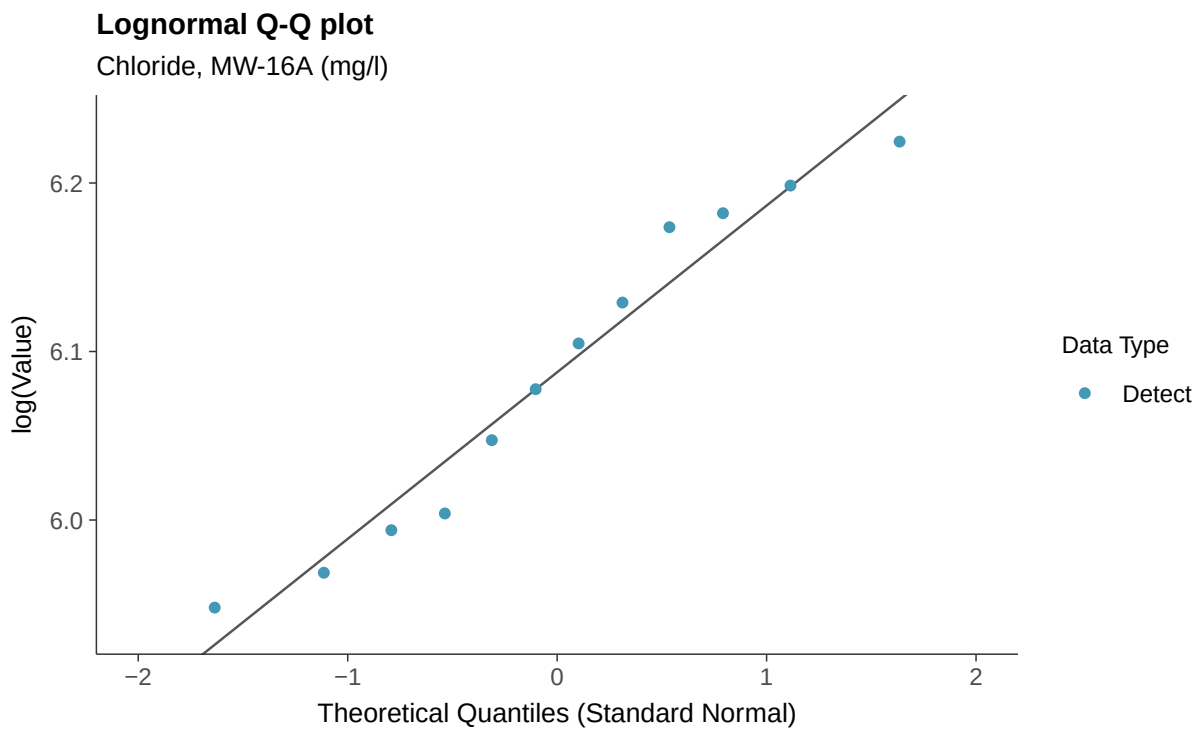
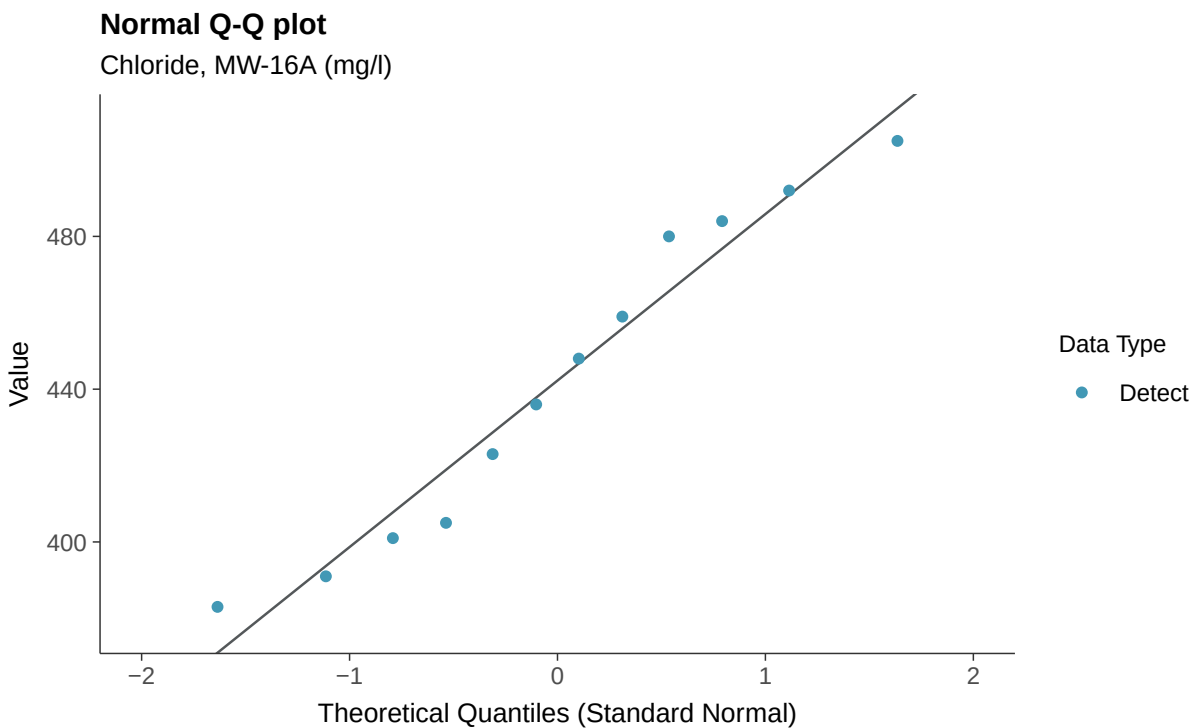


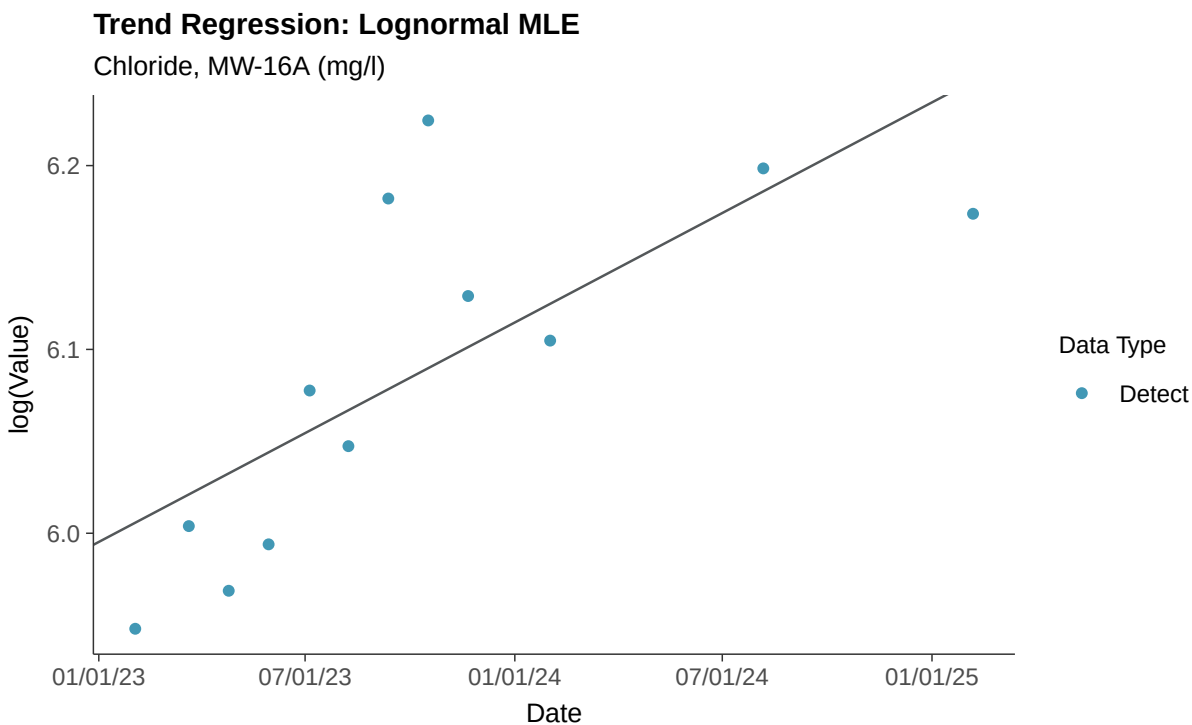
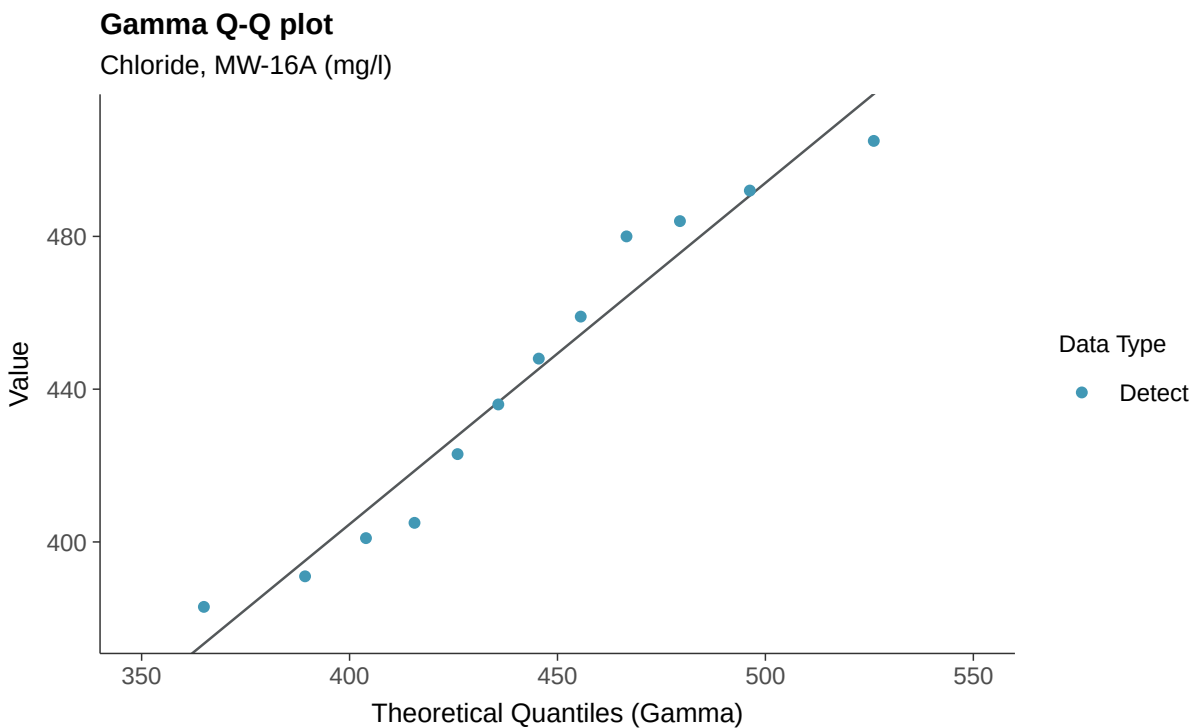
Appendix III: Chloride, MW-16A

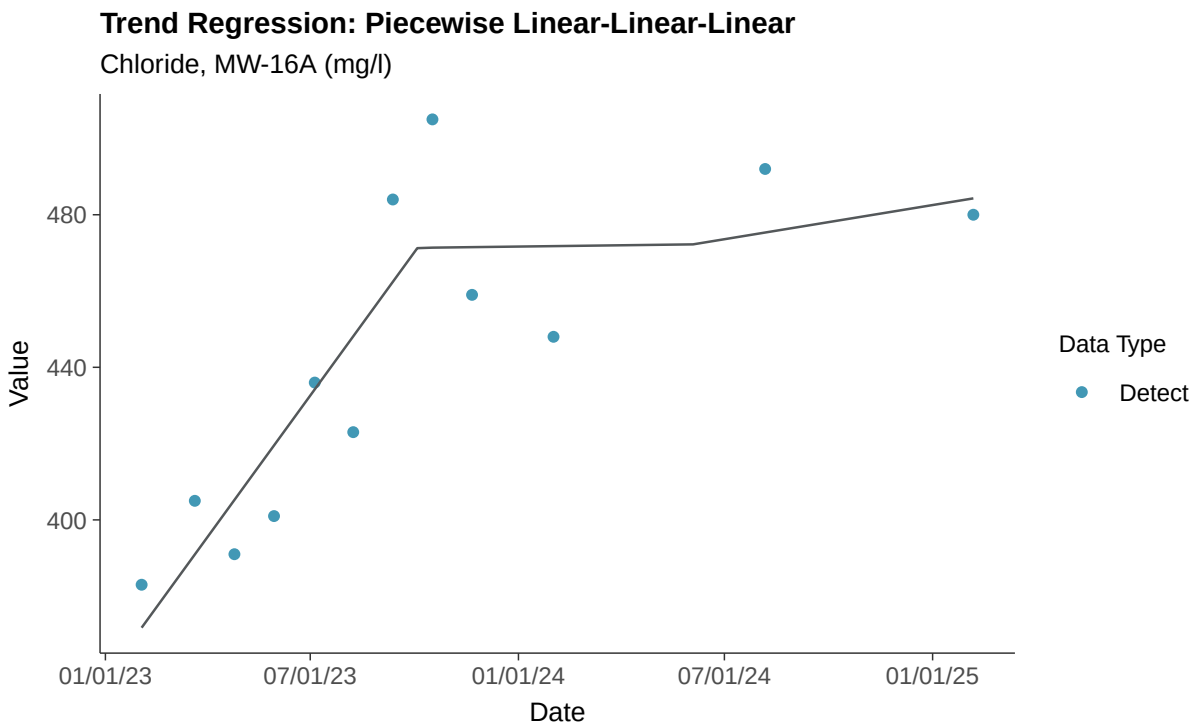
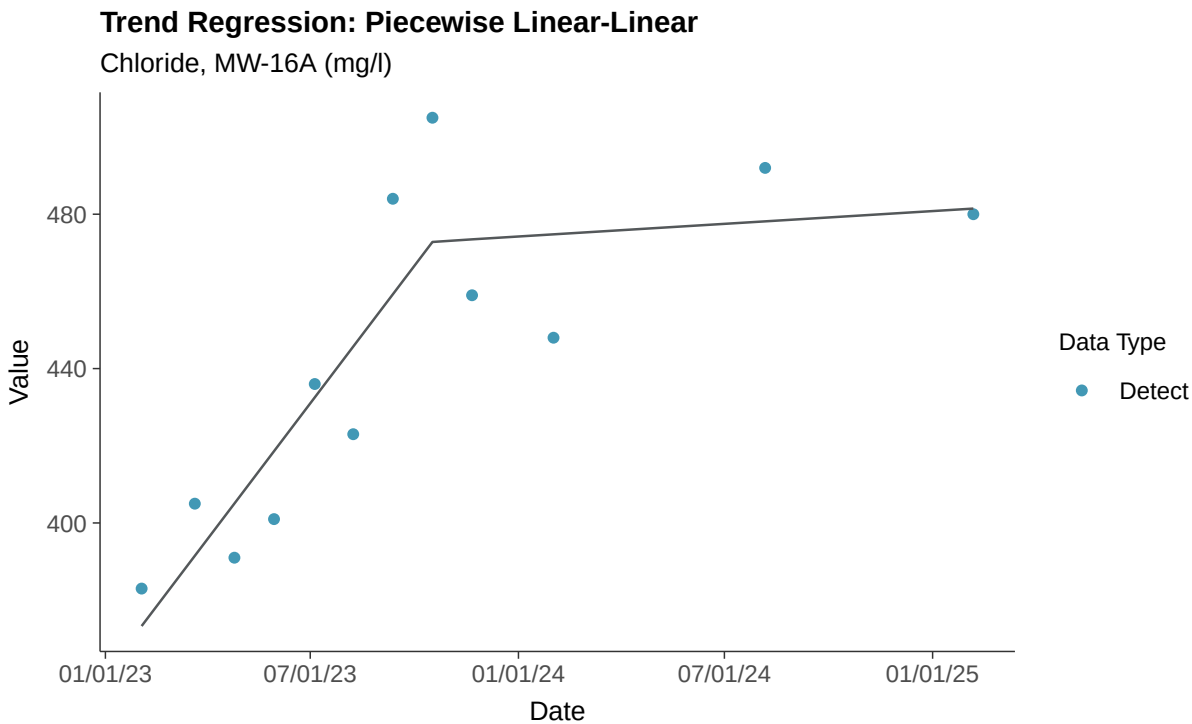
ID: 23_2_108







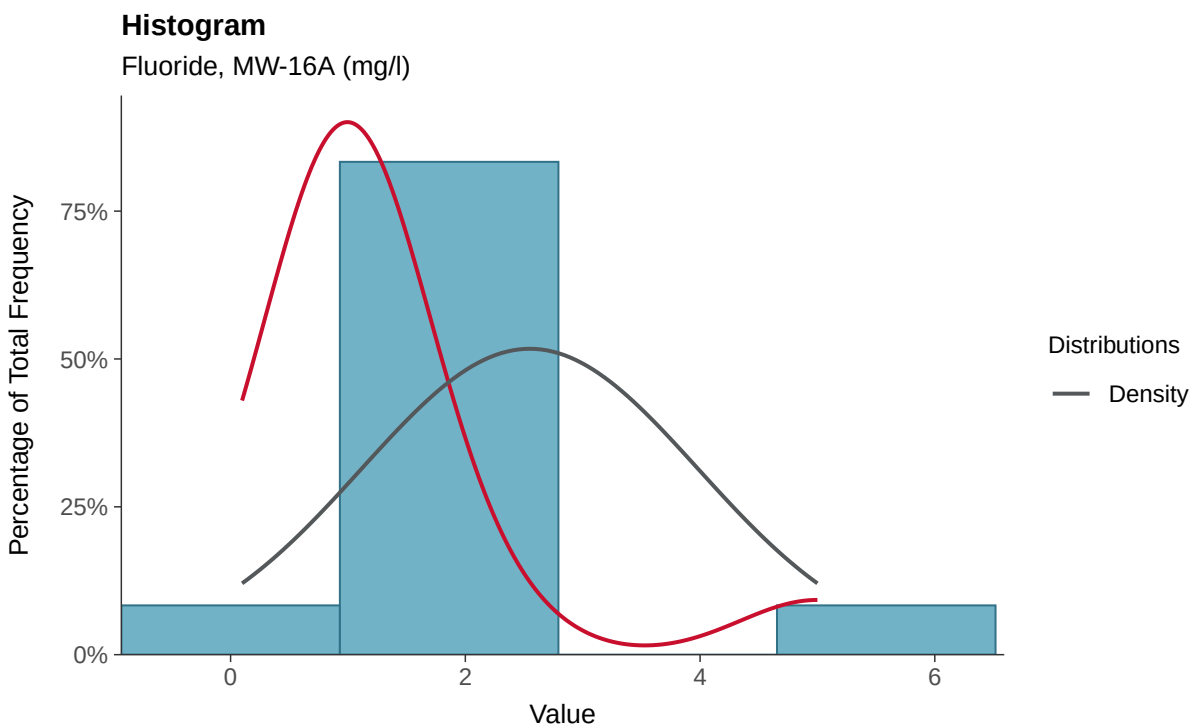
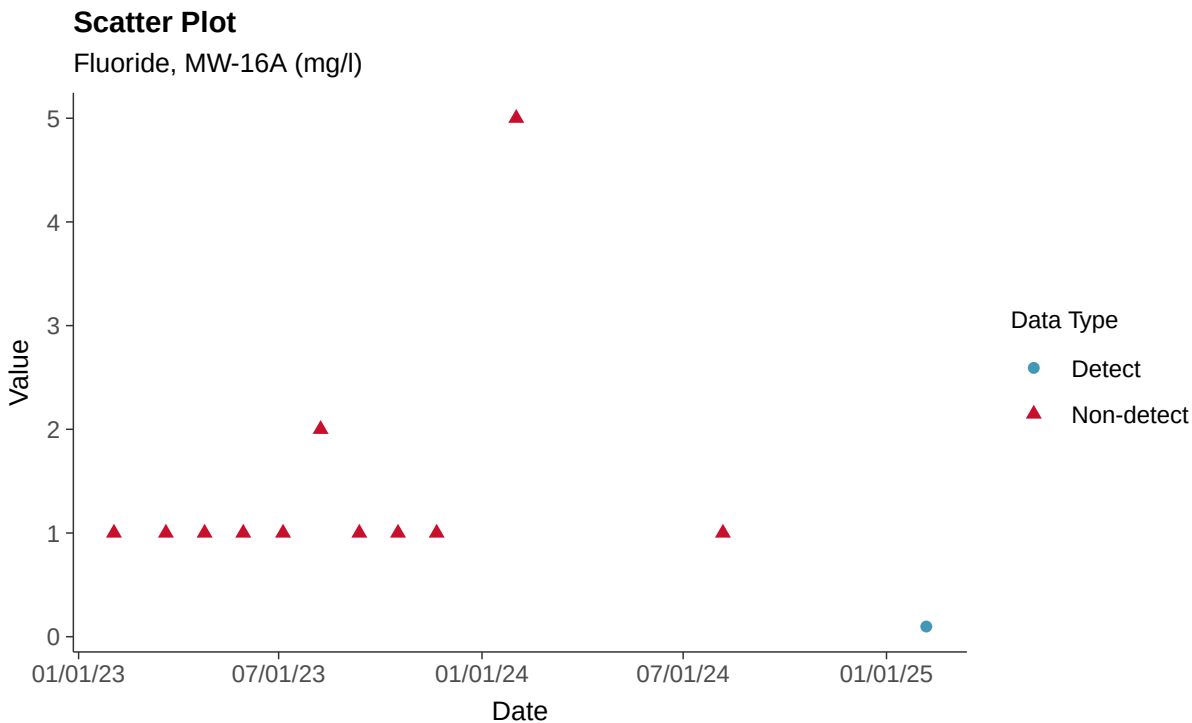


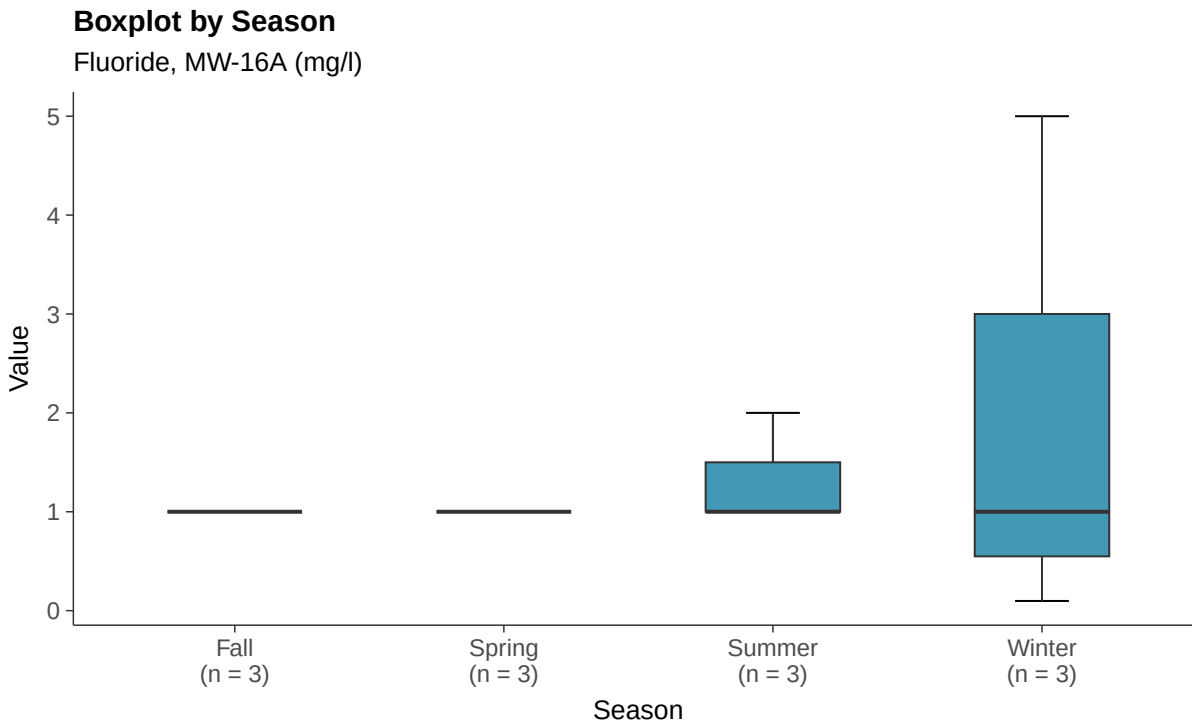
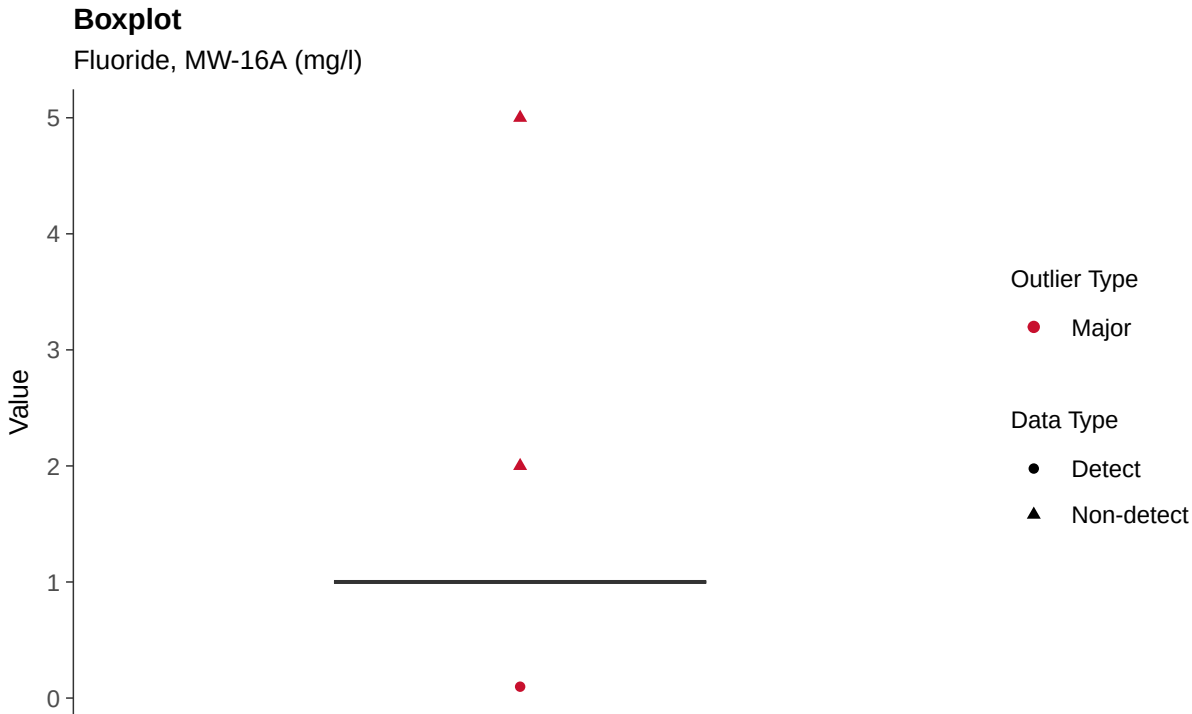




Appendix III: Fluoride, MW-16A

ID: 23_2_112

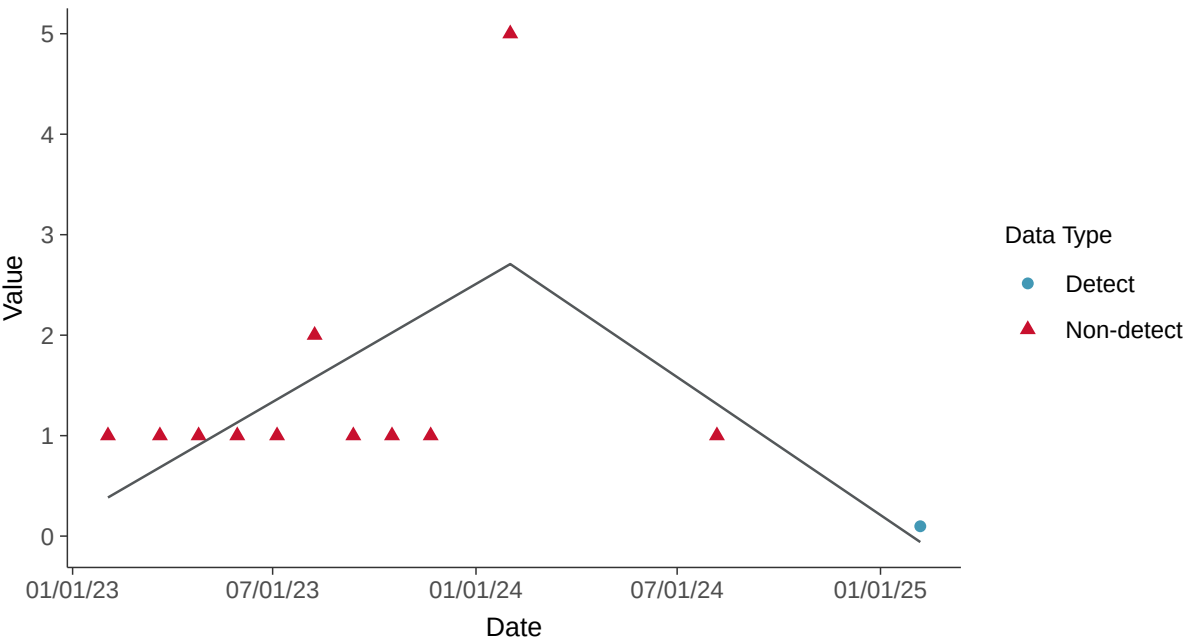






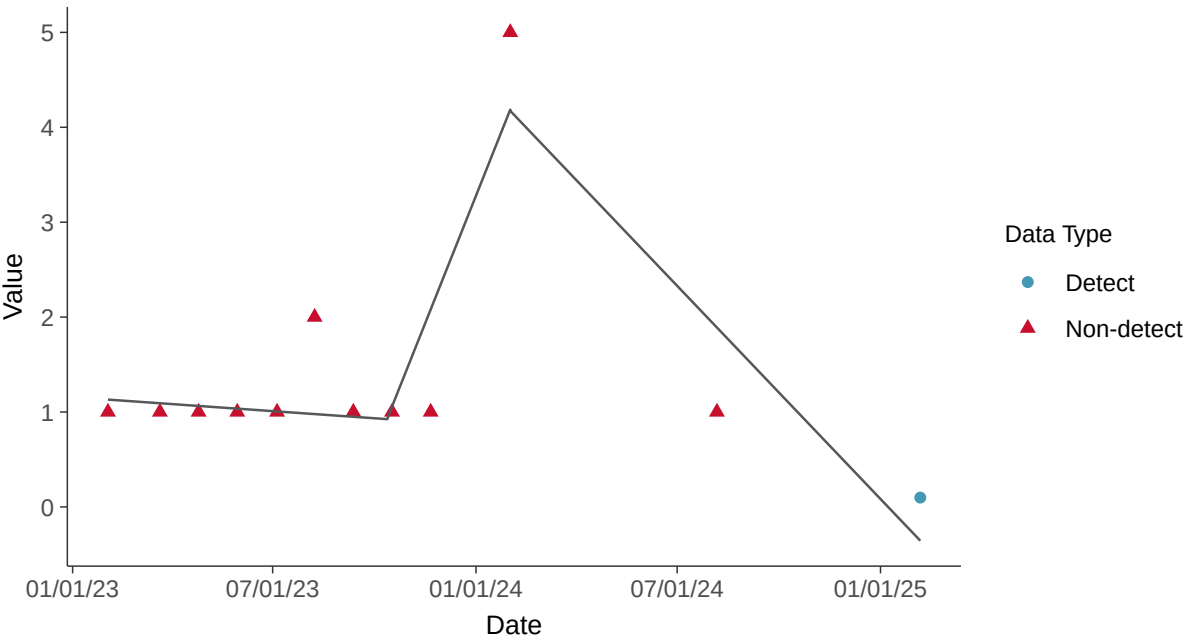
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-16A (mg/l)



Trend Regression: Piecewise Linear-Linear-Linear

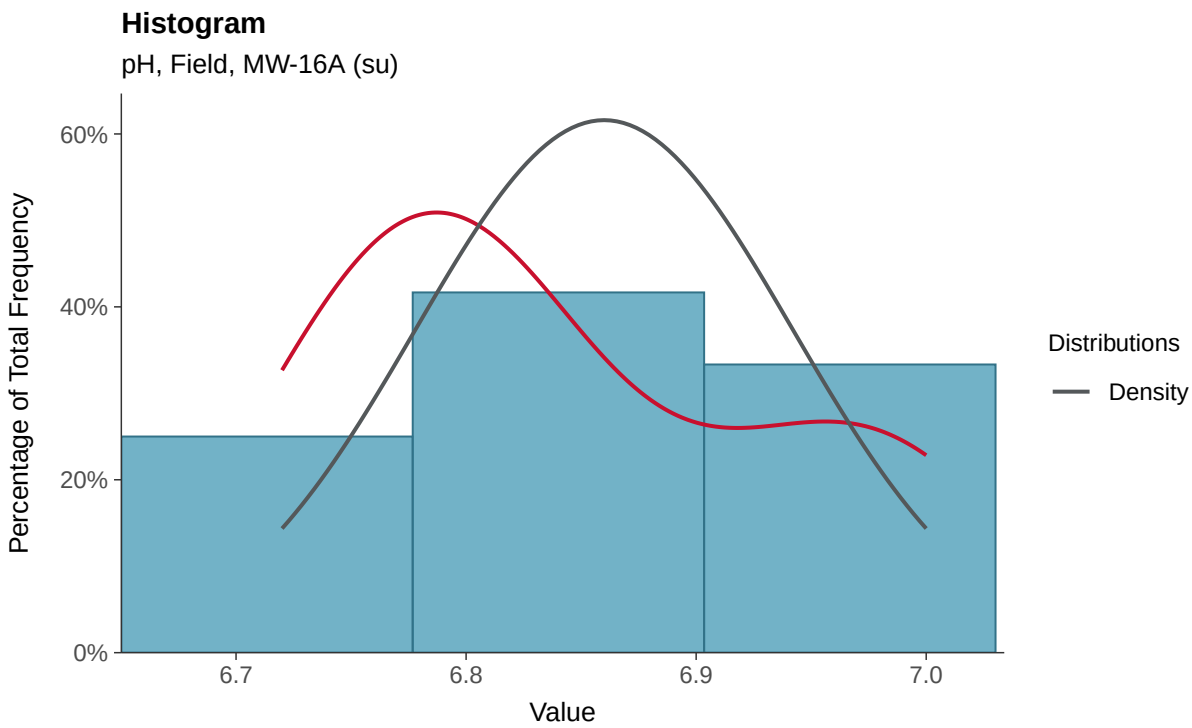
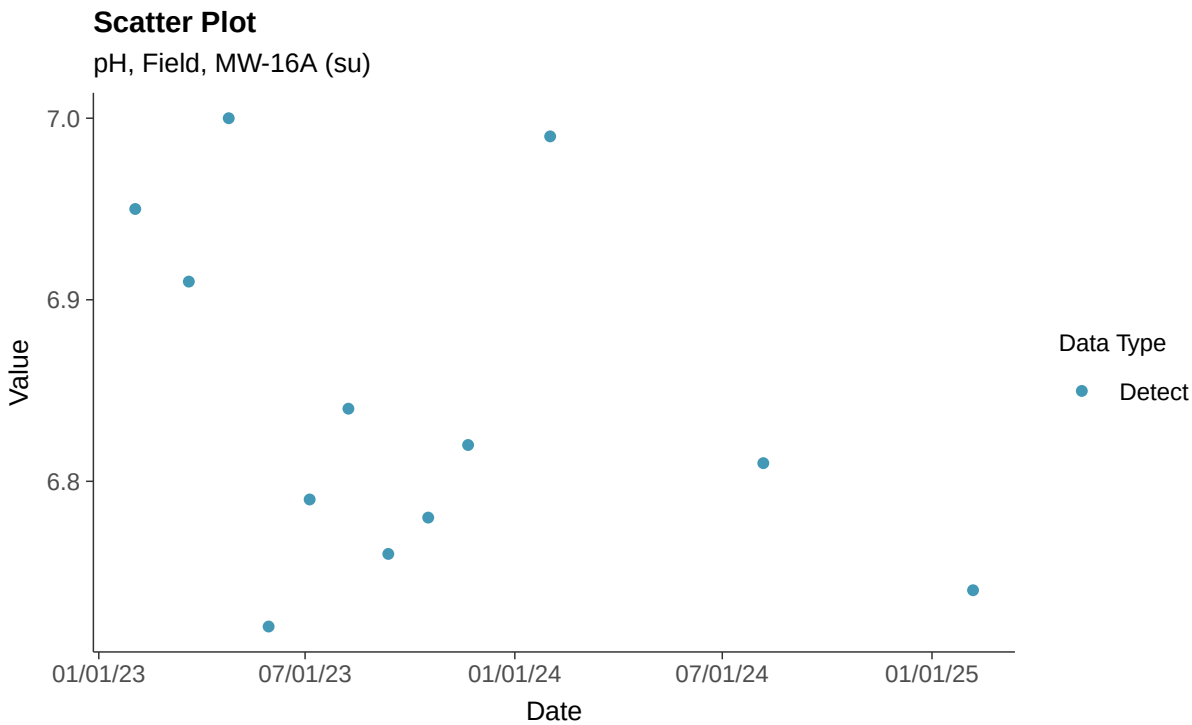
Fluoride, MW-16A (mg/l)

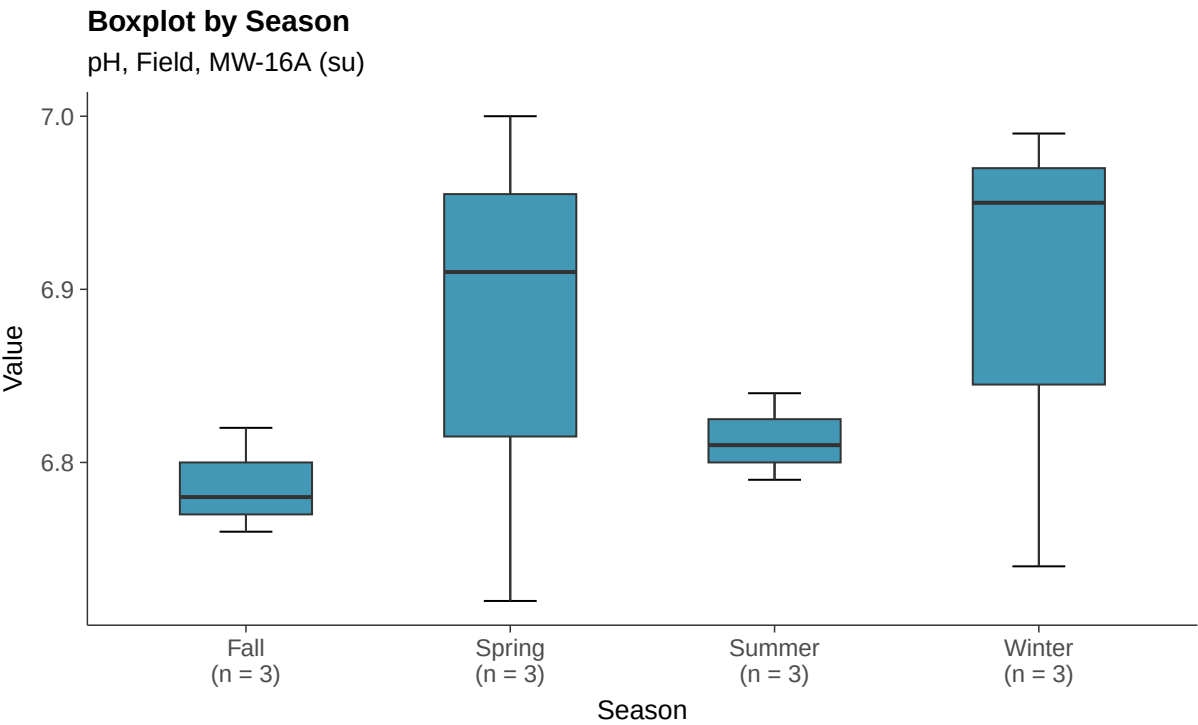
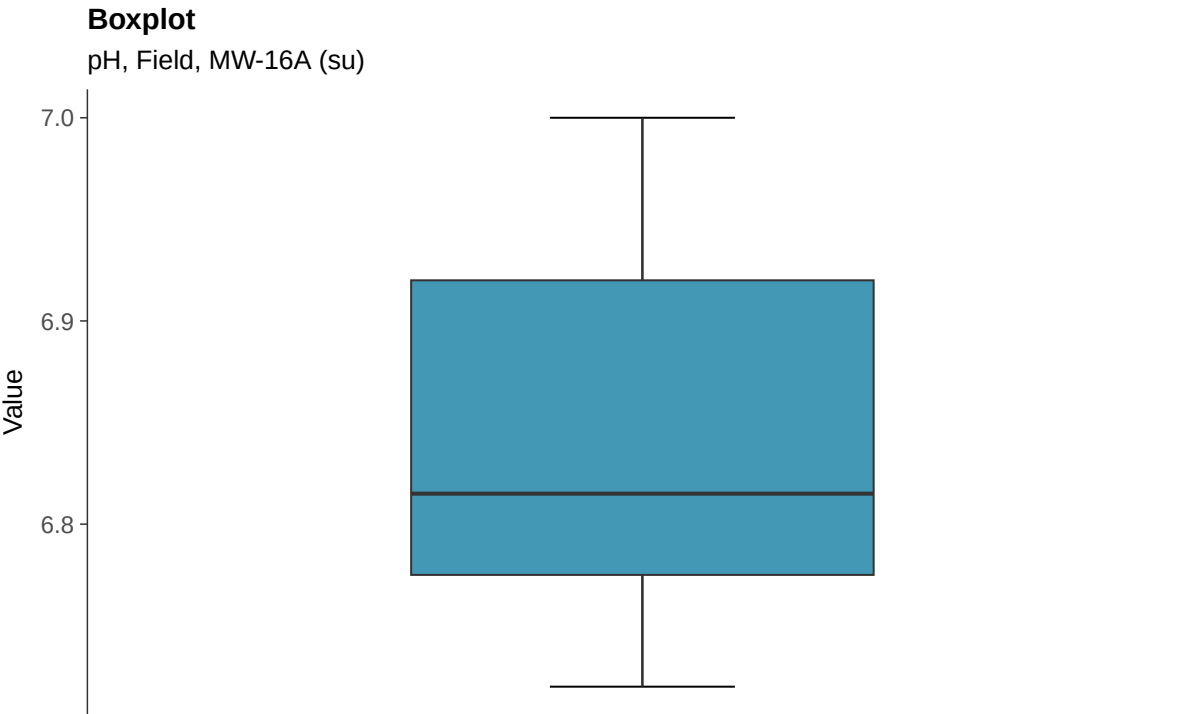


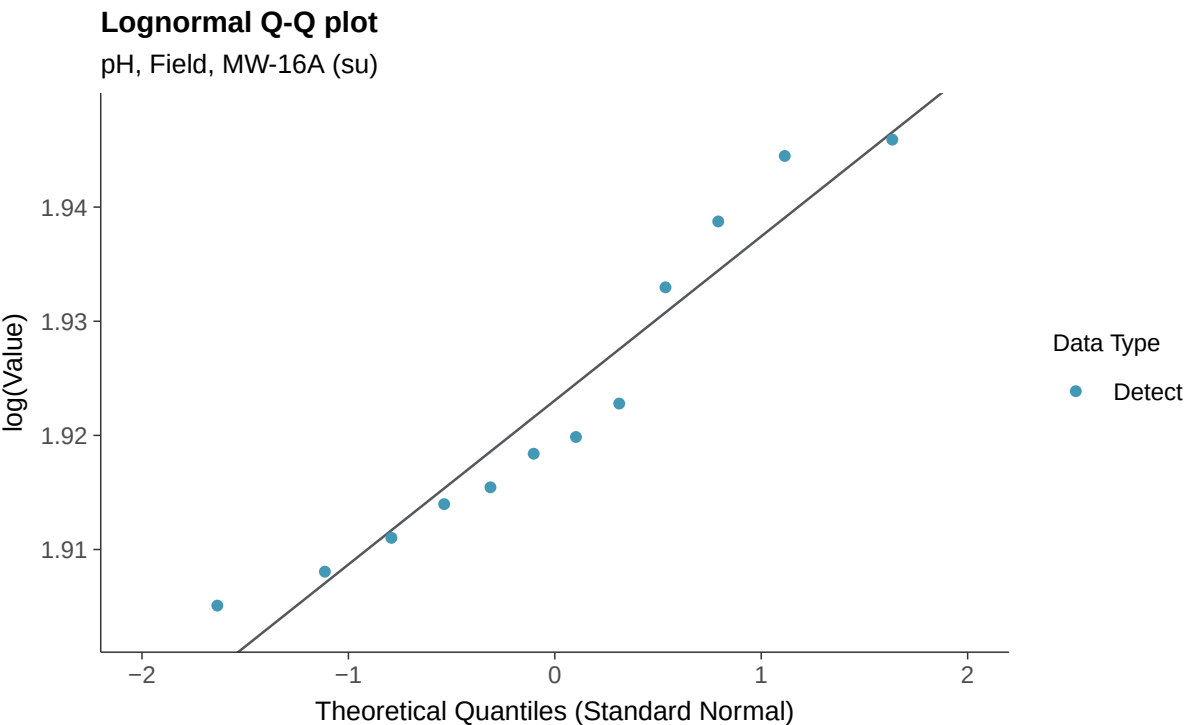
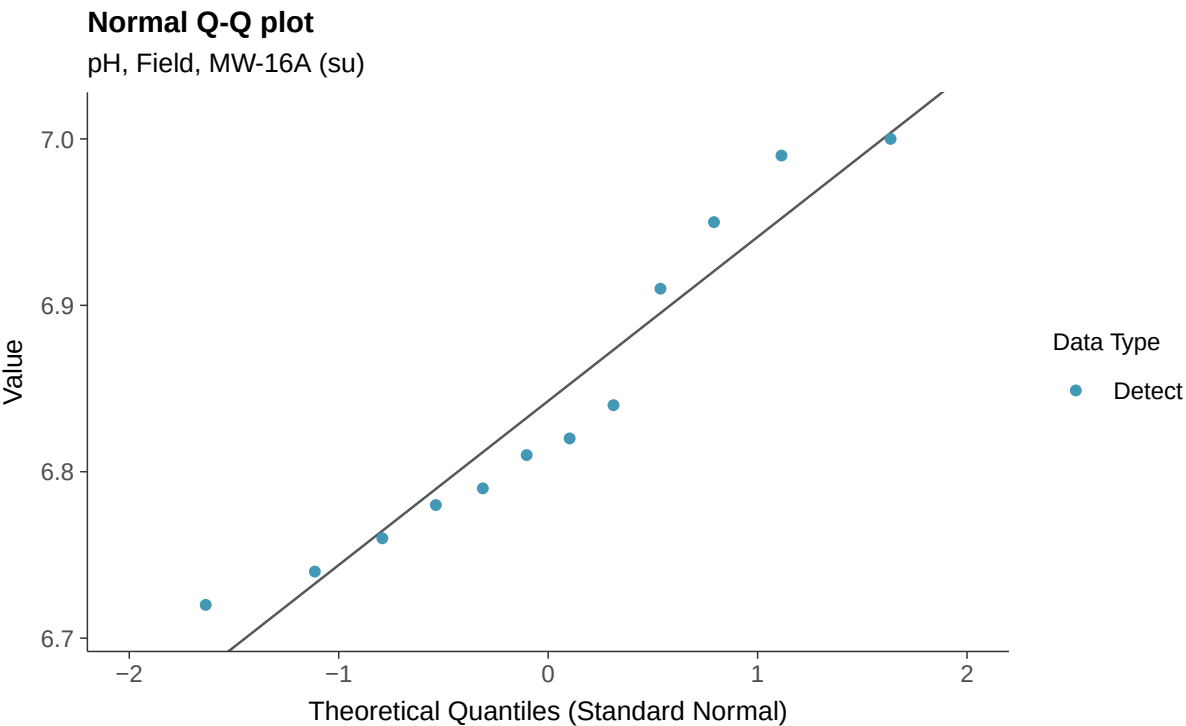


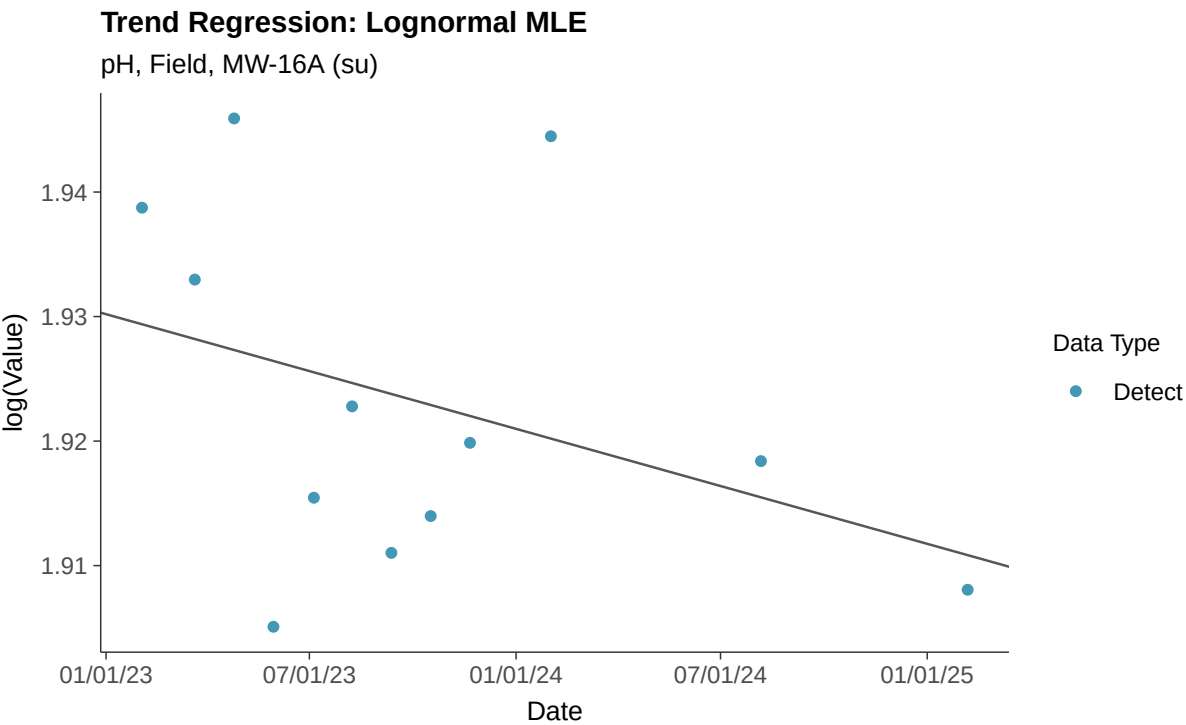
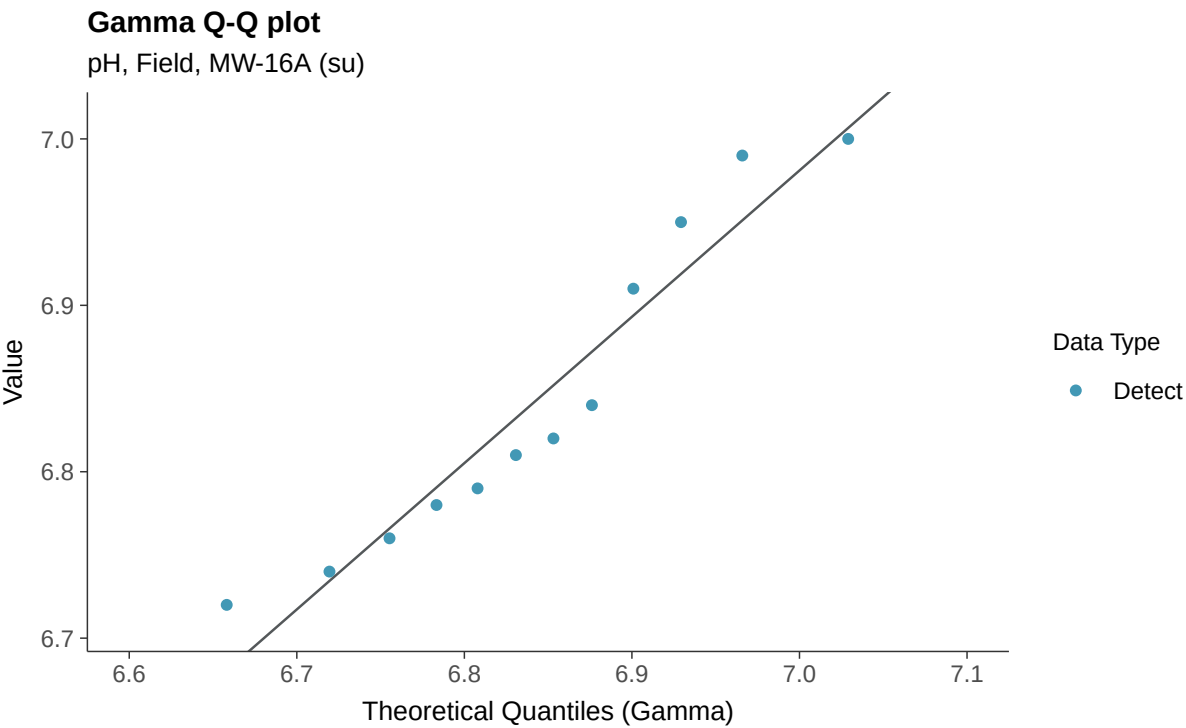
Appendix III: pH, Field, MW-16A

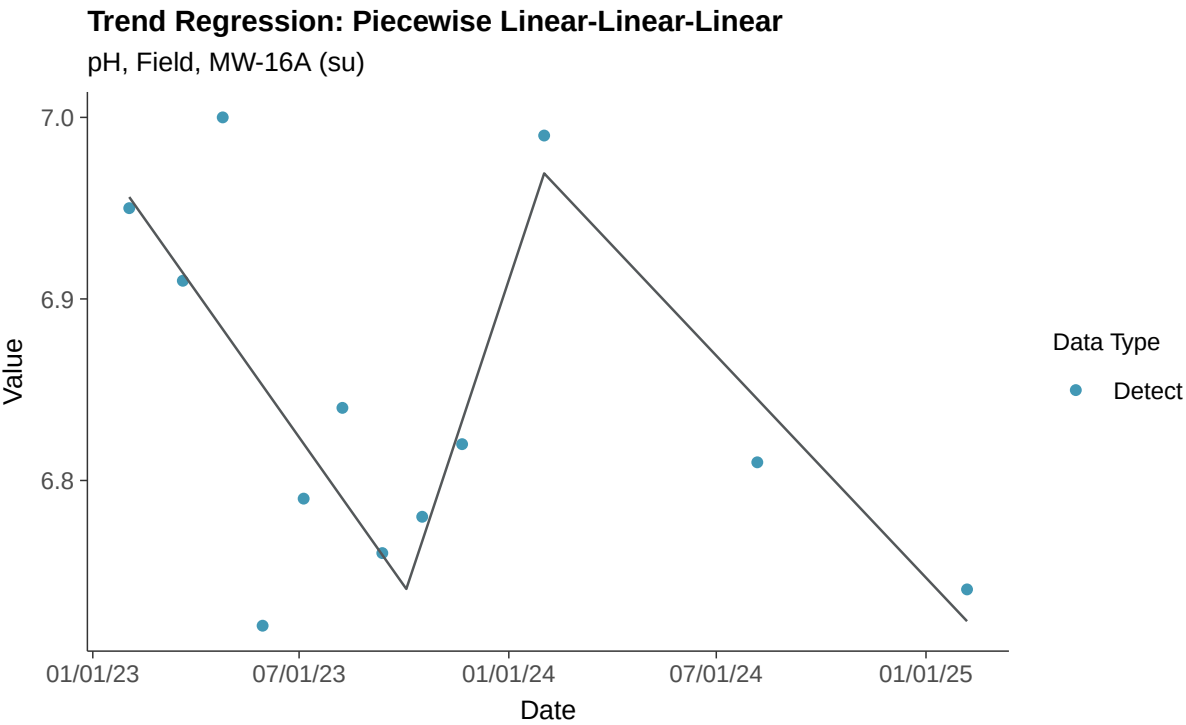
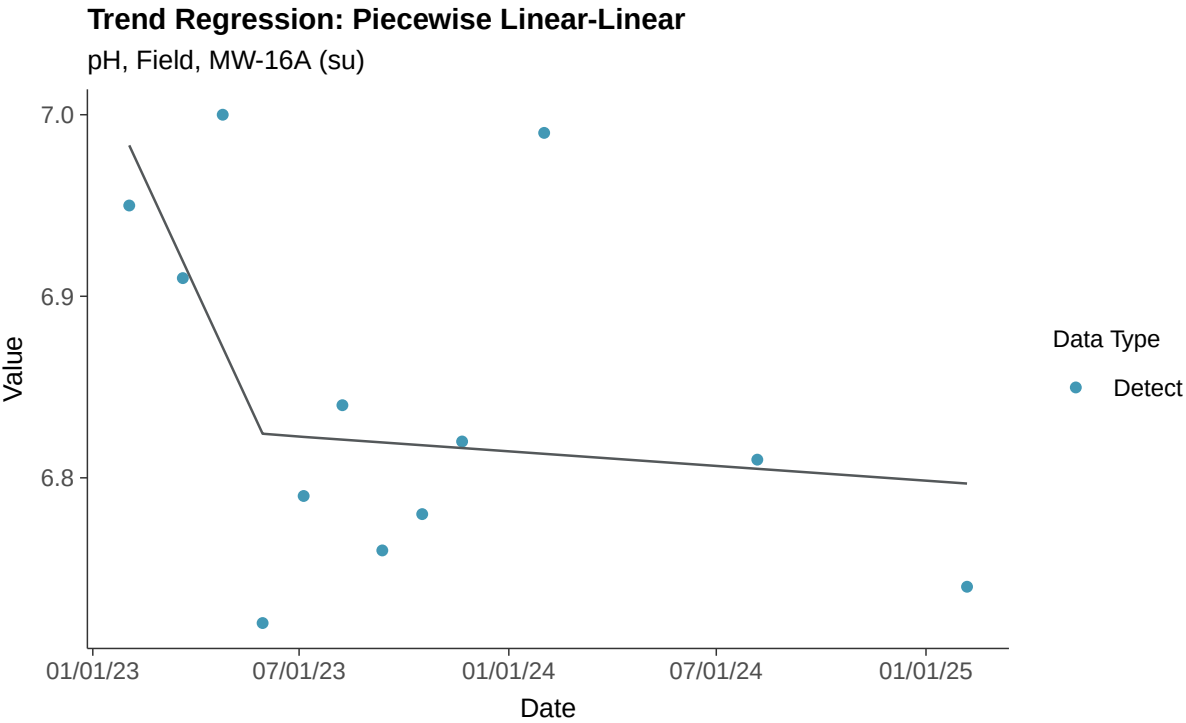
ID: 23_2_120







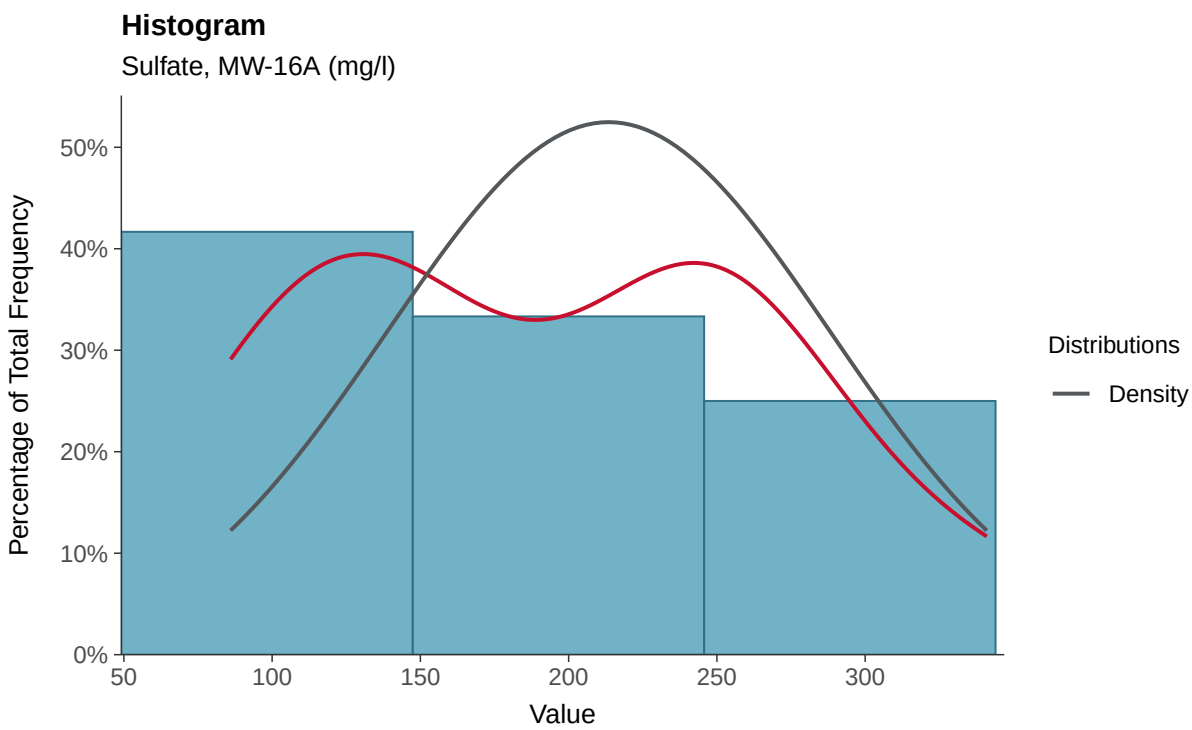
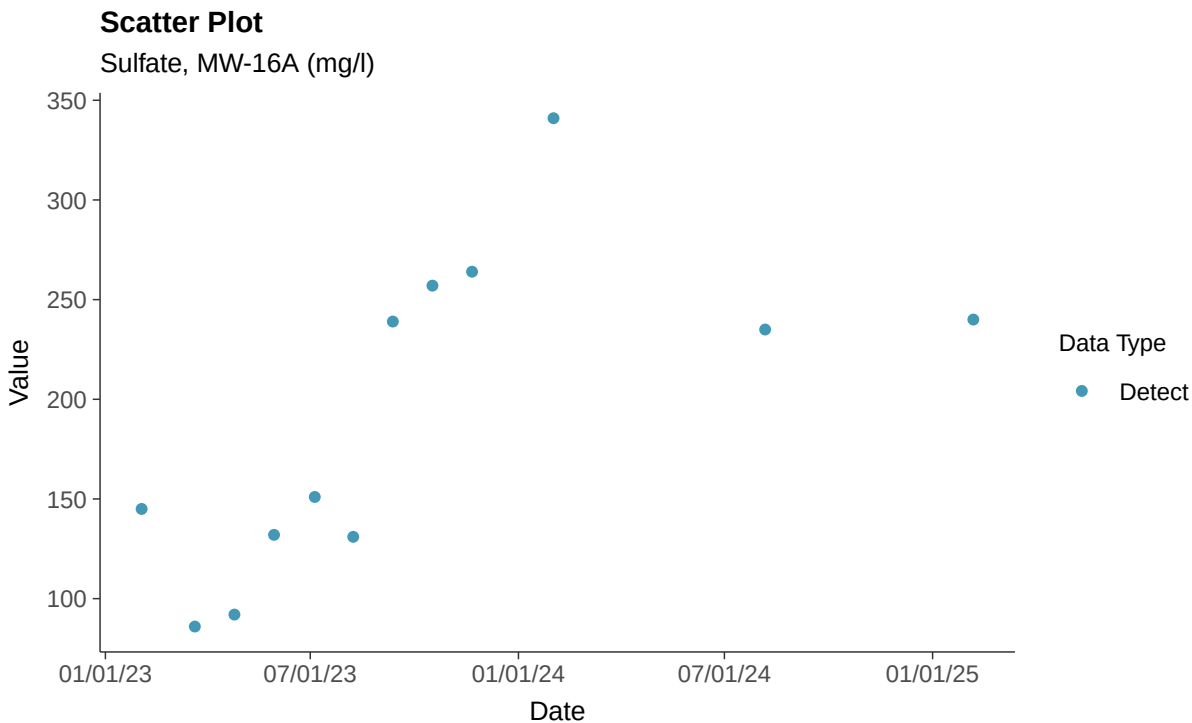


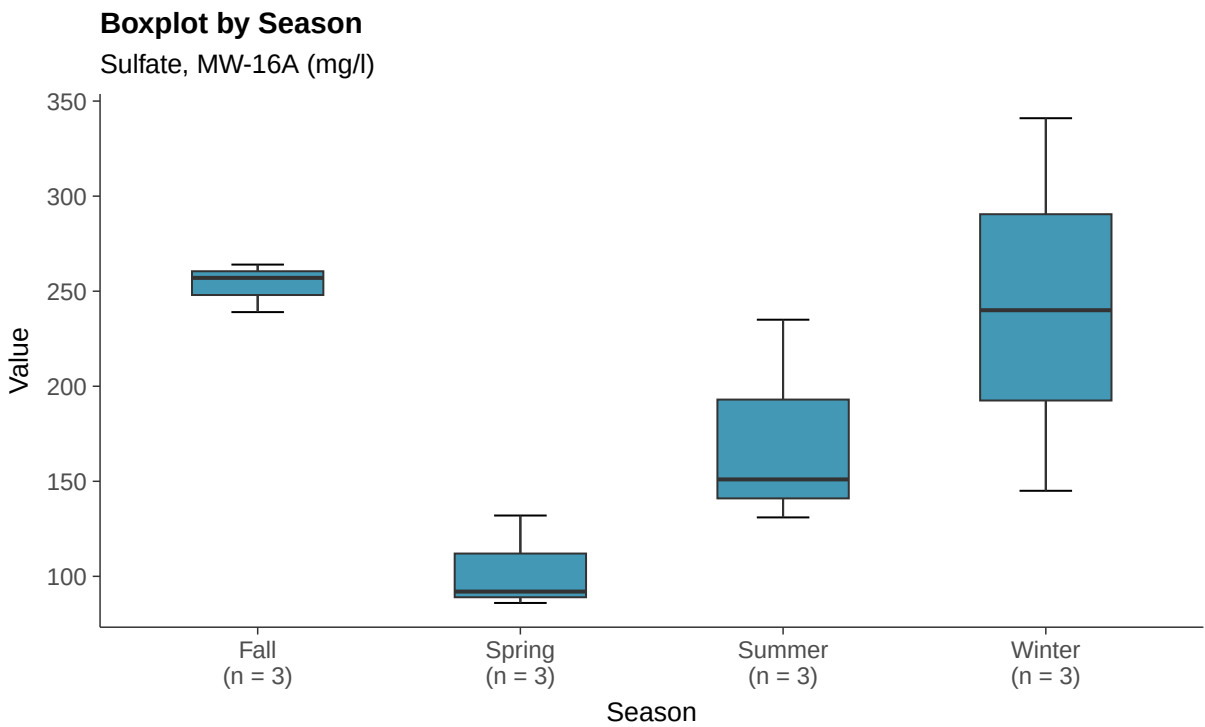
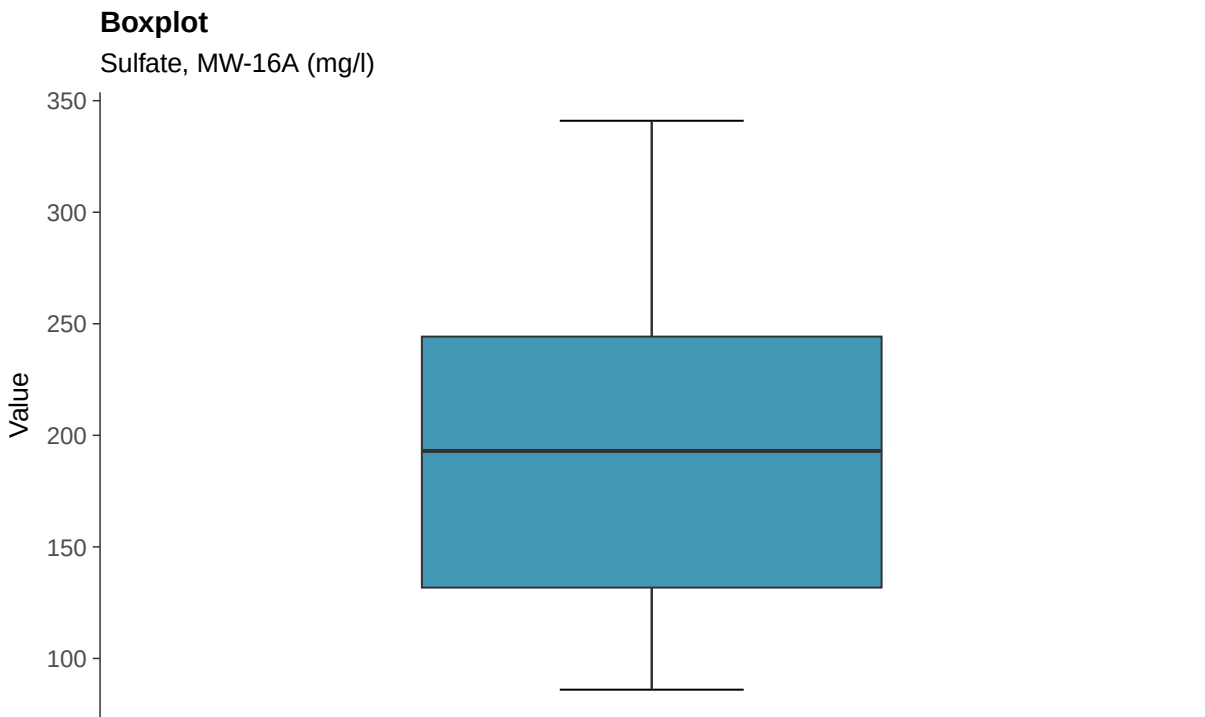


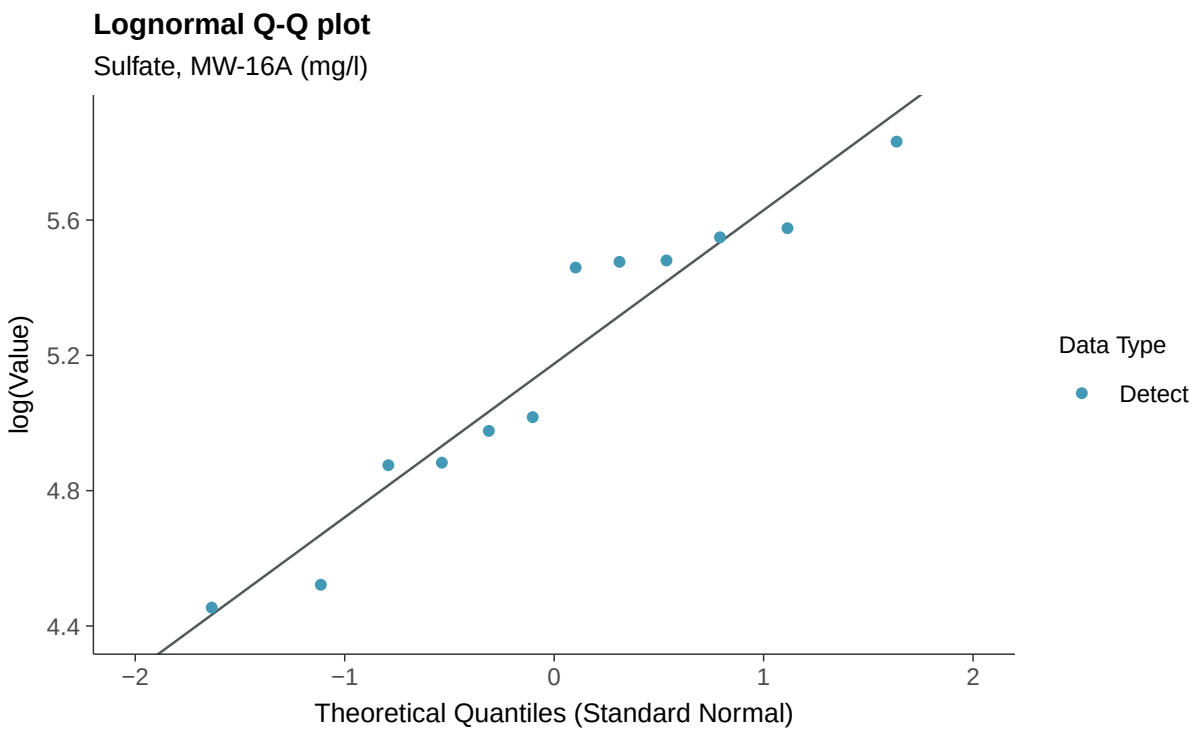
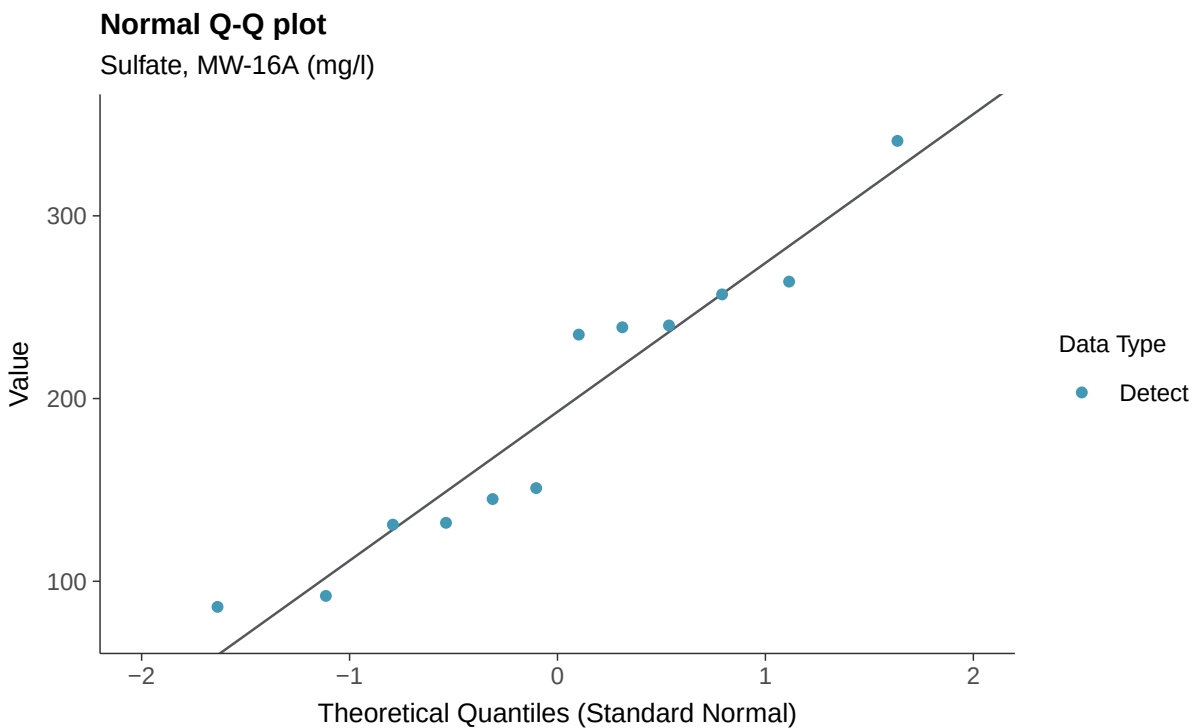


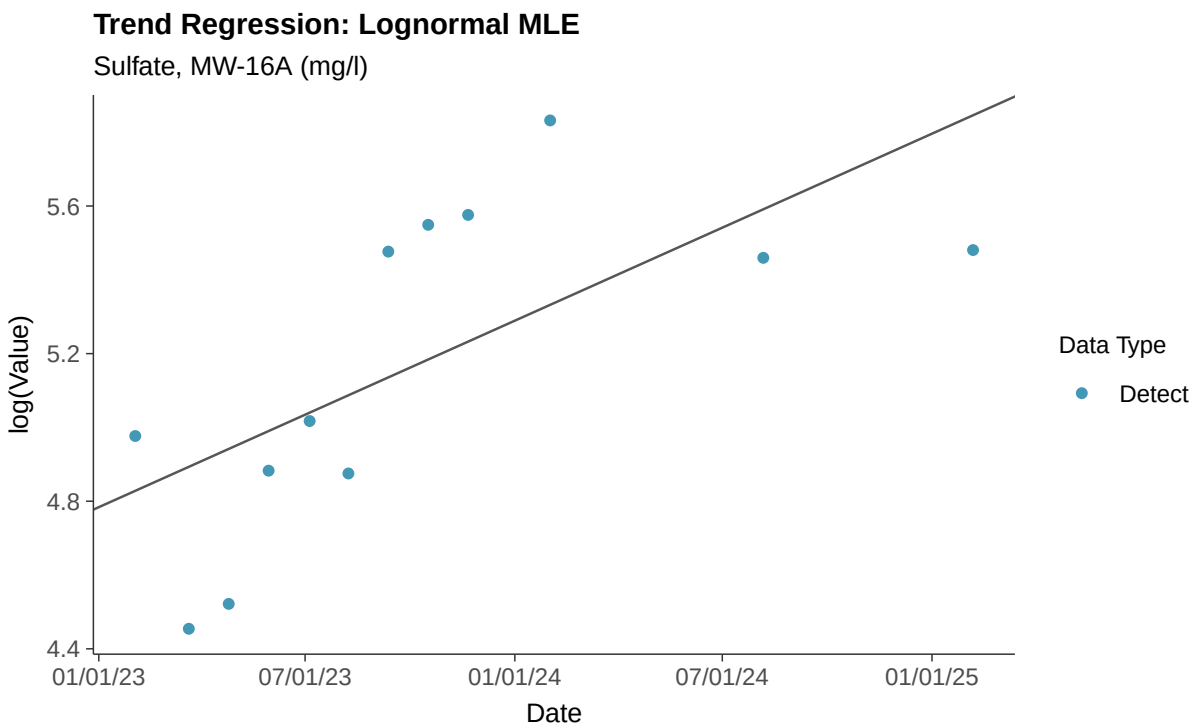
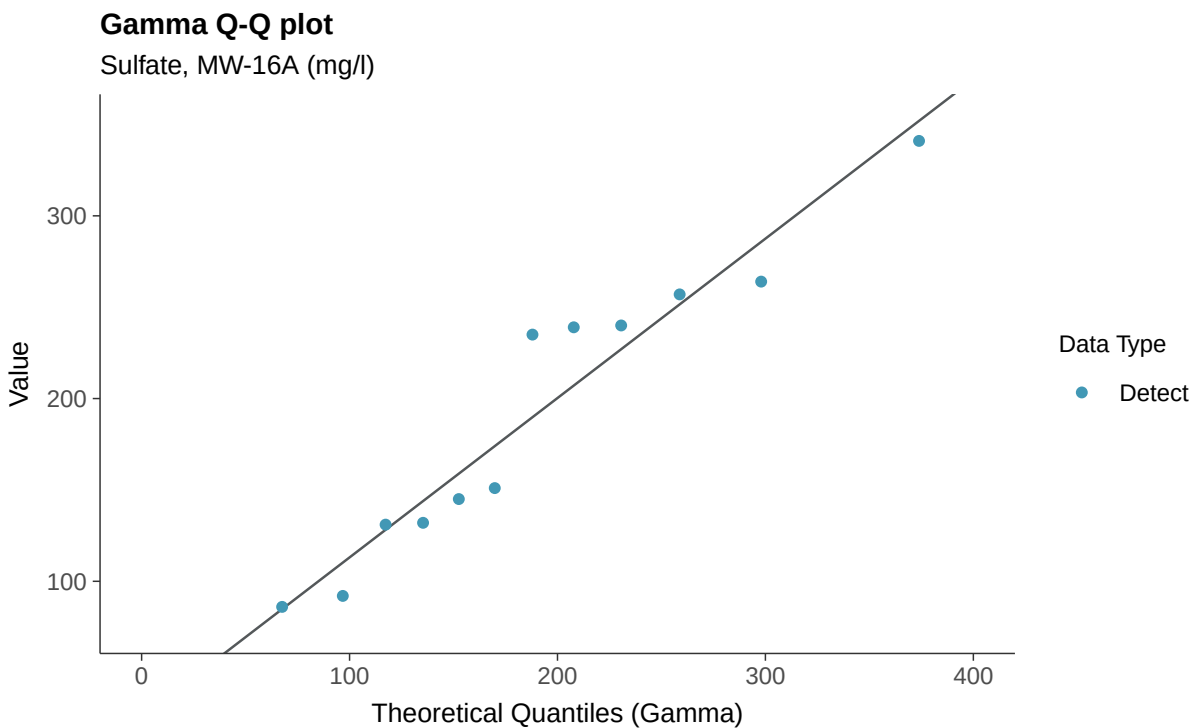
Appendix III: Sulfate, MW-16A

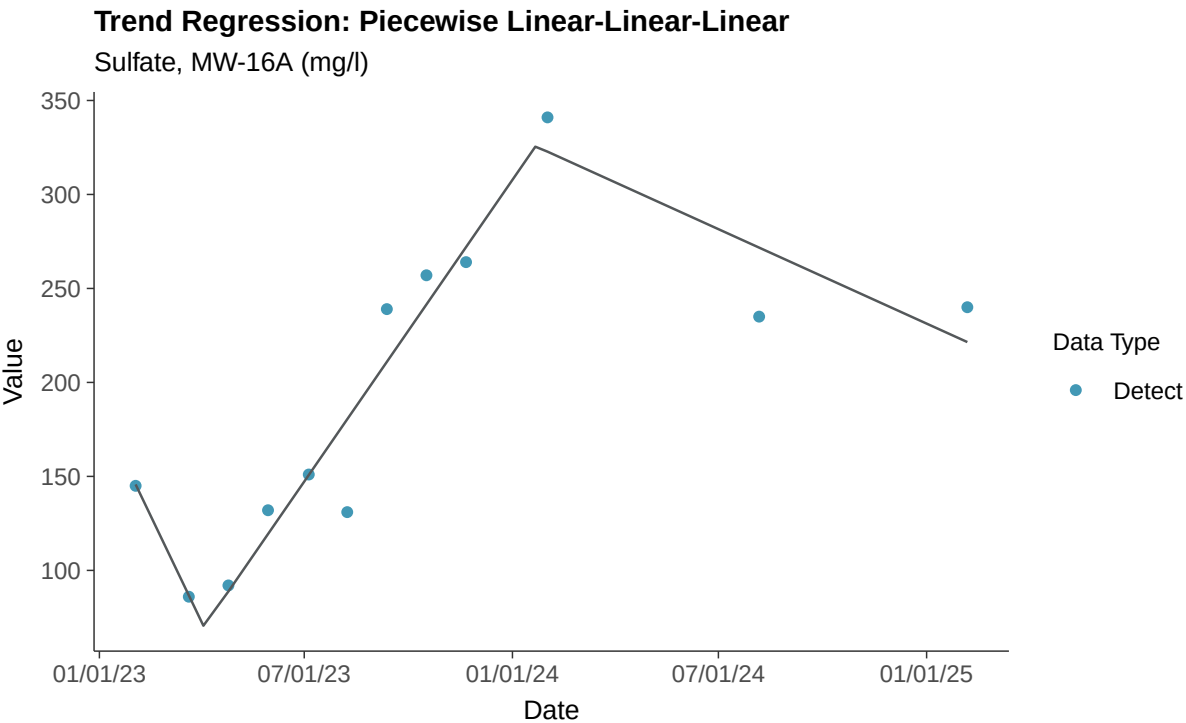
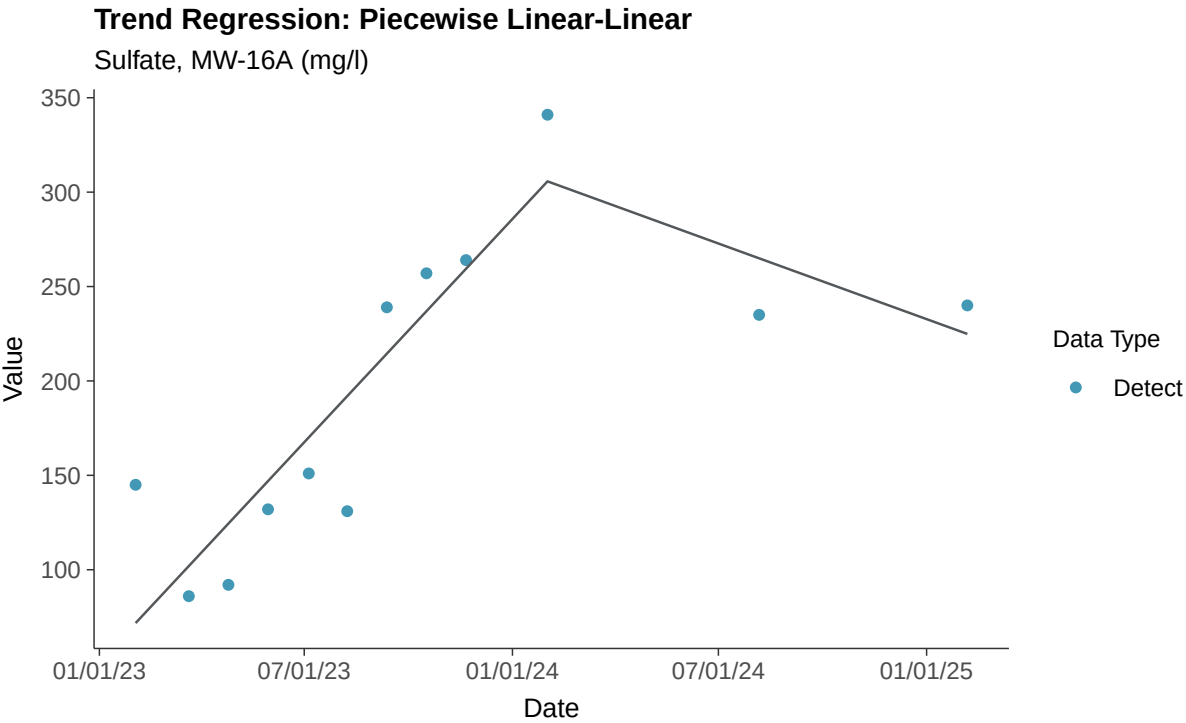
ID: 23_2_124







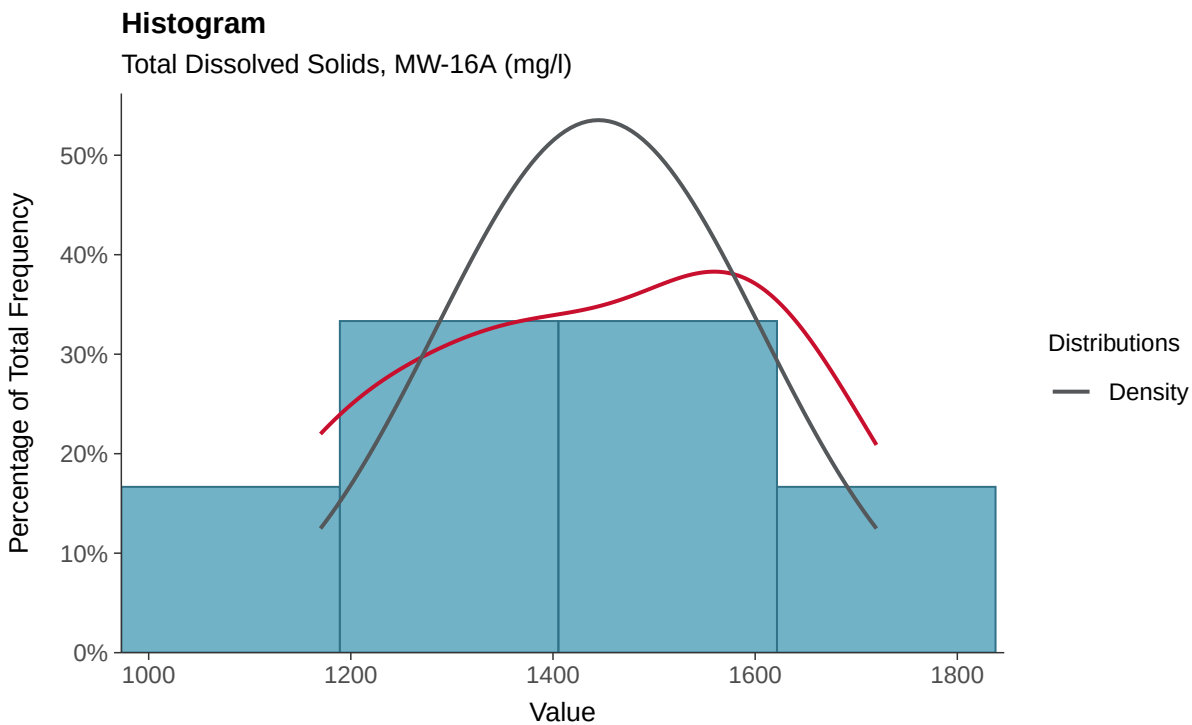
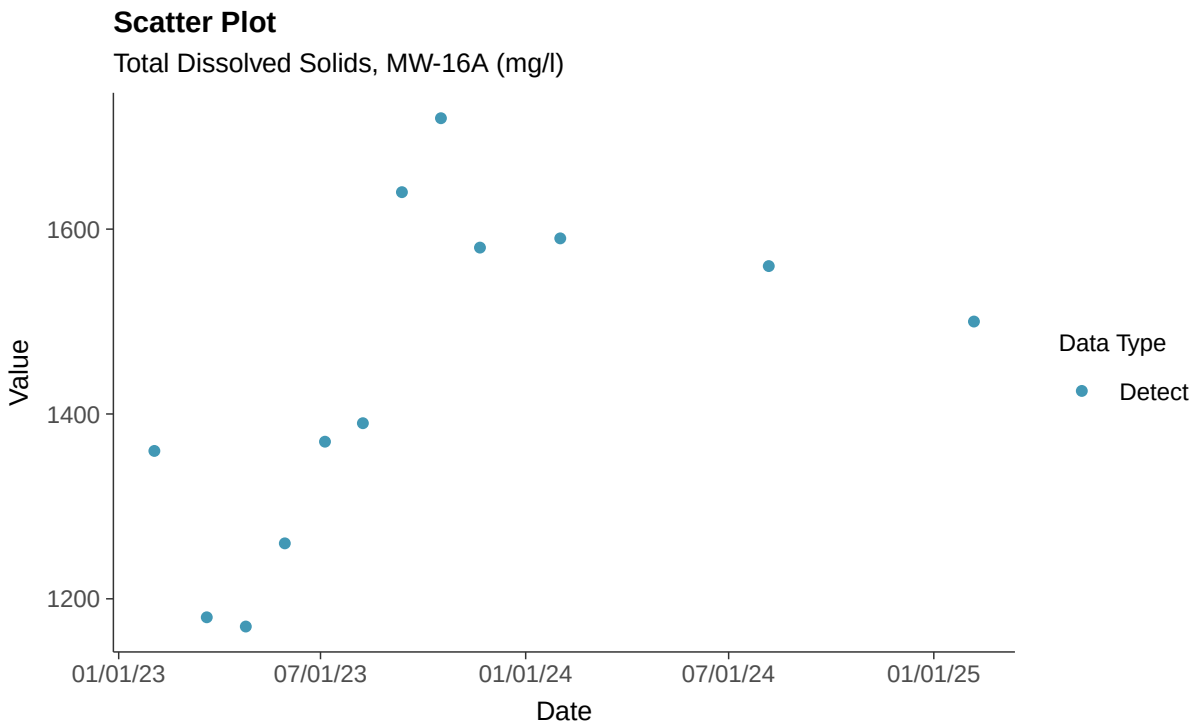






Appendix III: Total Dissolved Solids, MW-16A

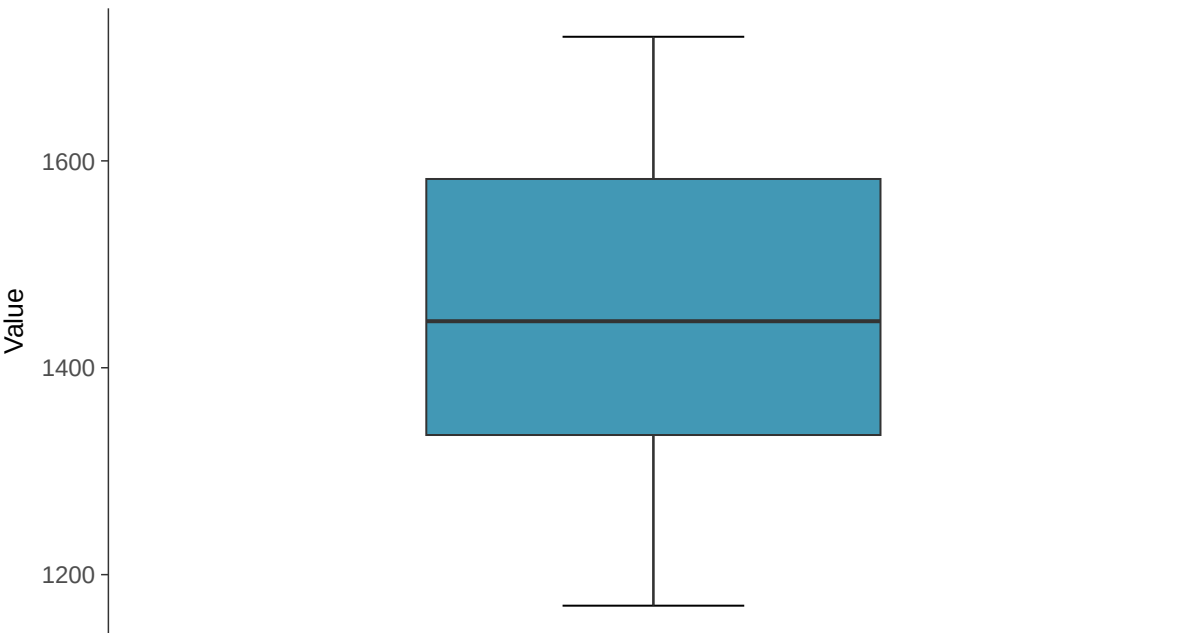
ID: 23_2_126





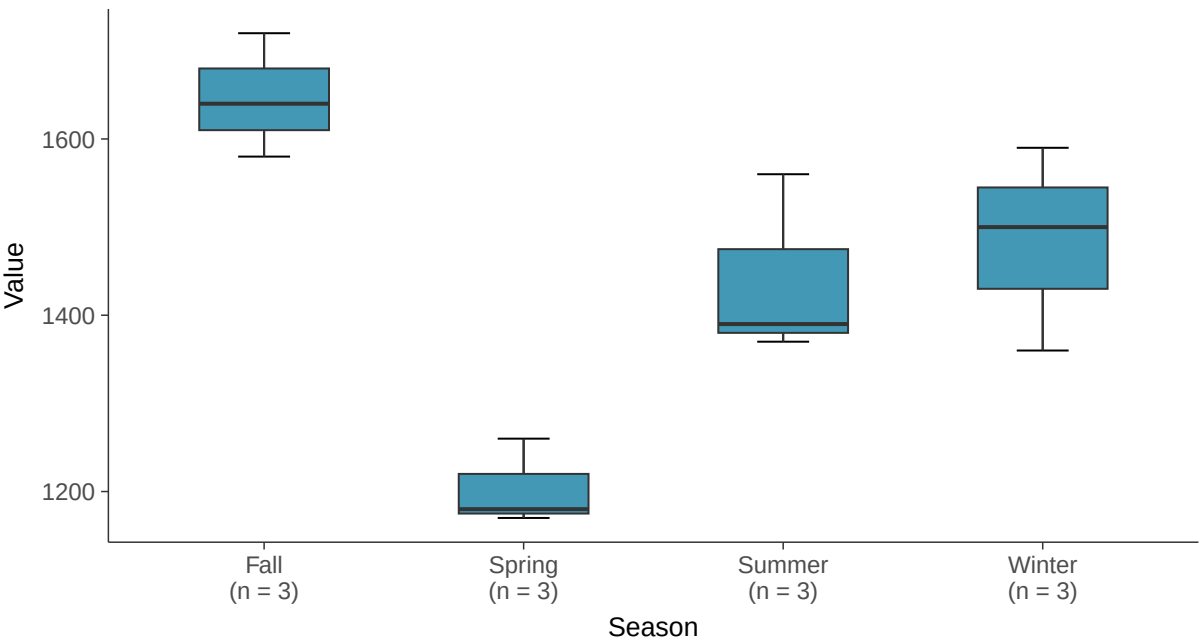
Boxplot

Total Dissolved Solids, MW-16A (mg/l)



Boxplot by Season

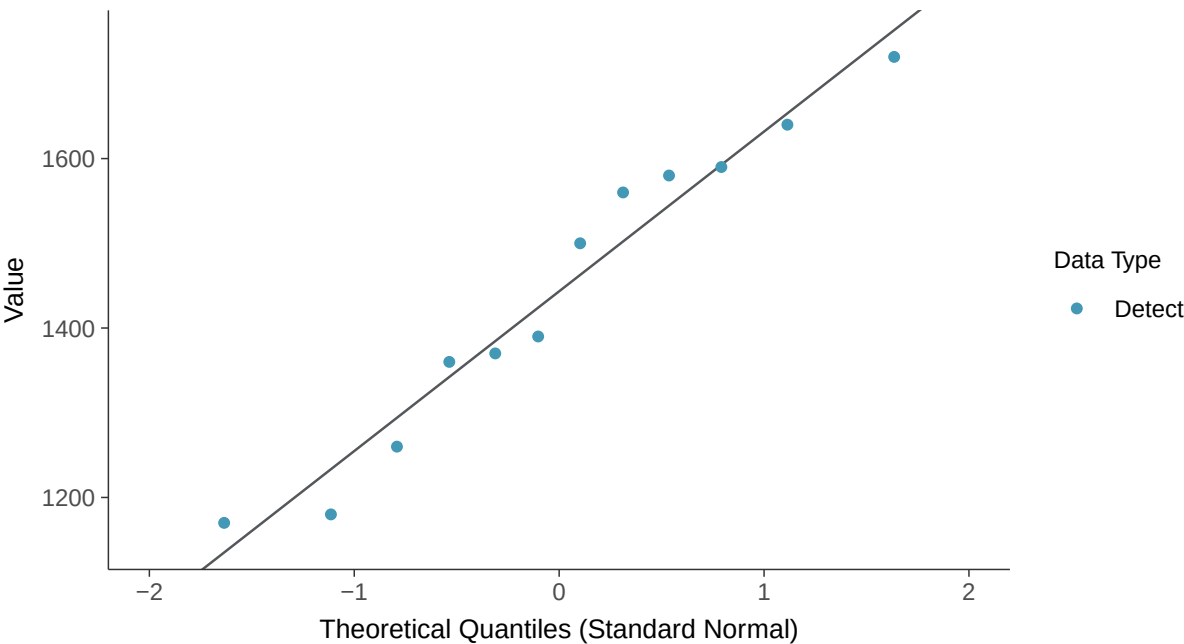
Total Dissolved Solids, MW-16A (mg/l)





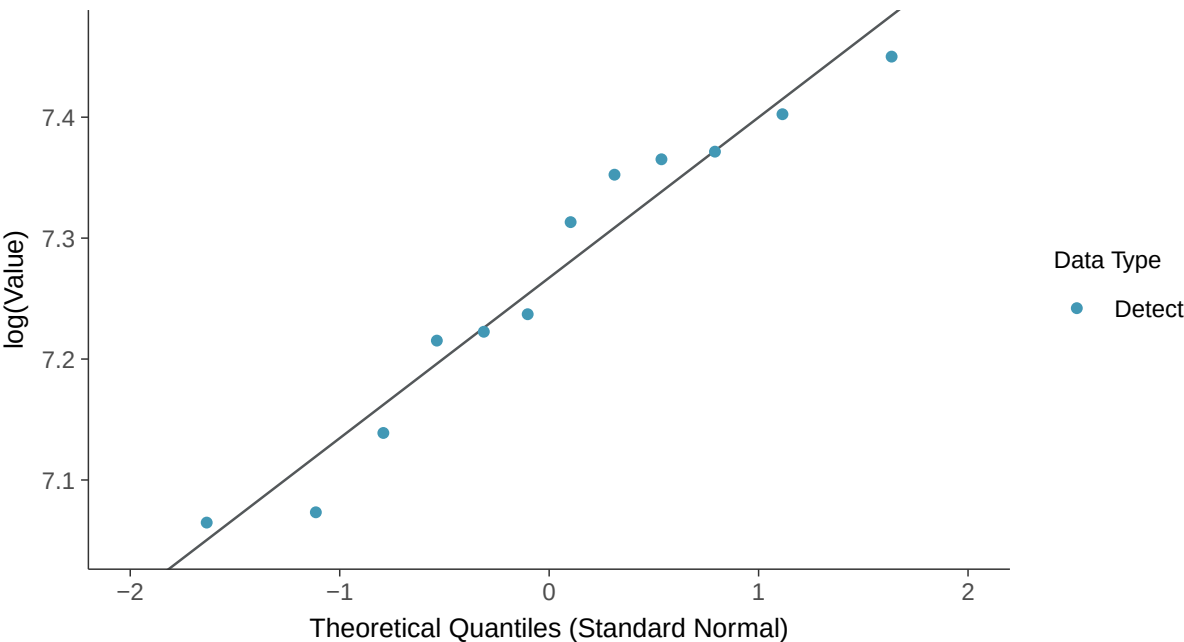
Normal Q-Q plot

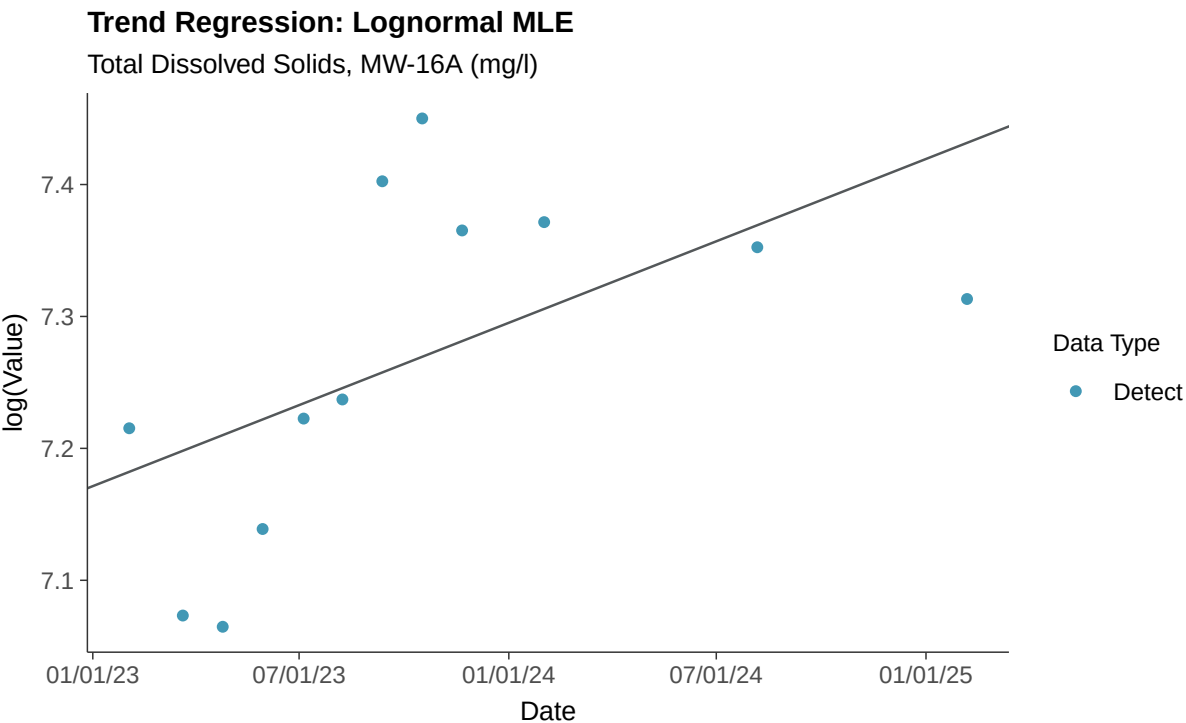
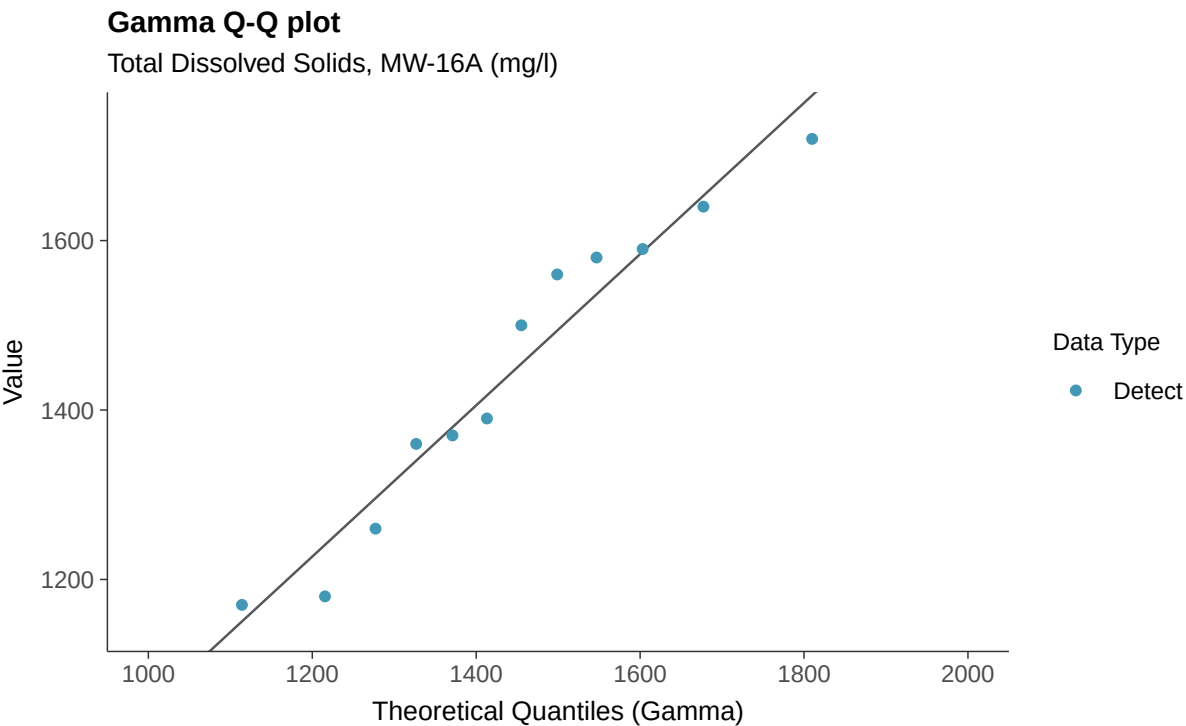
Total Dissolved Solids, MW-16A (mg/l)

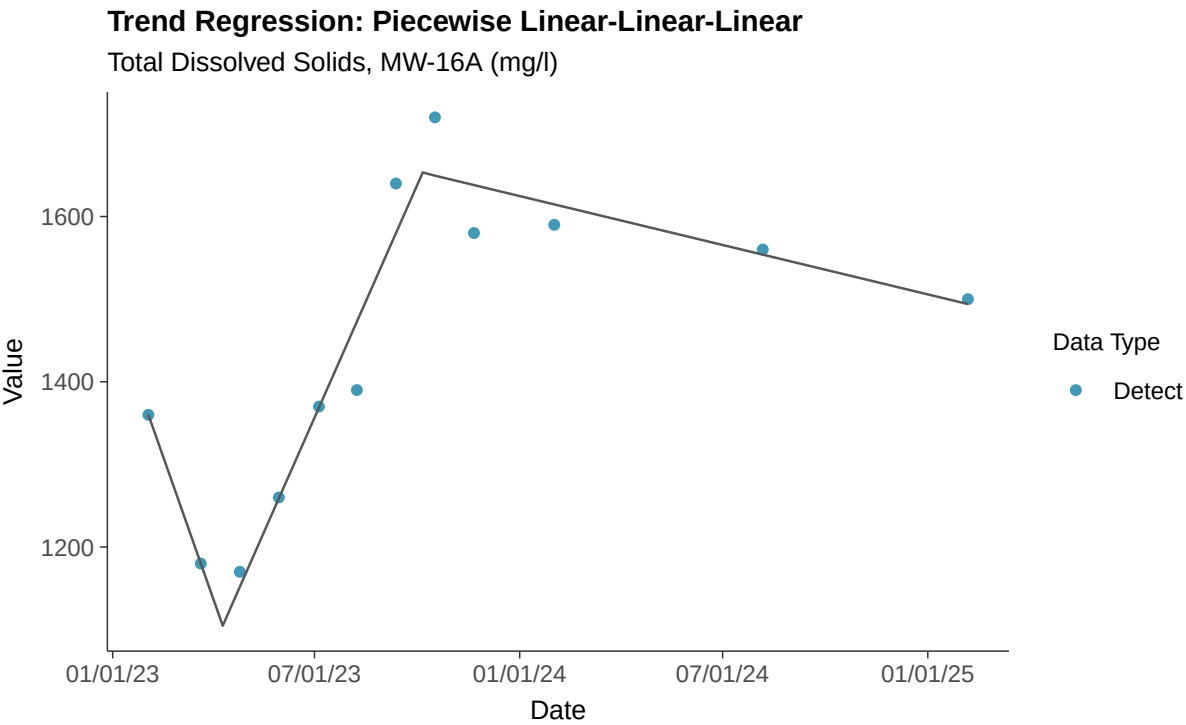
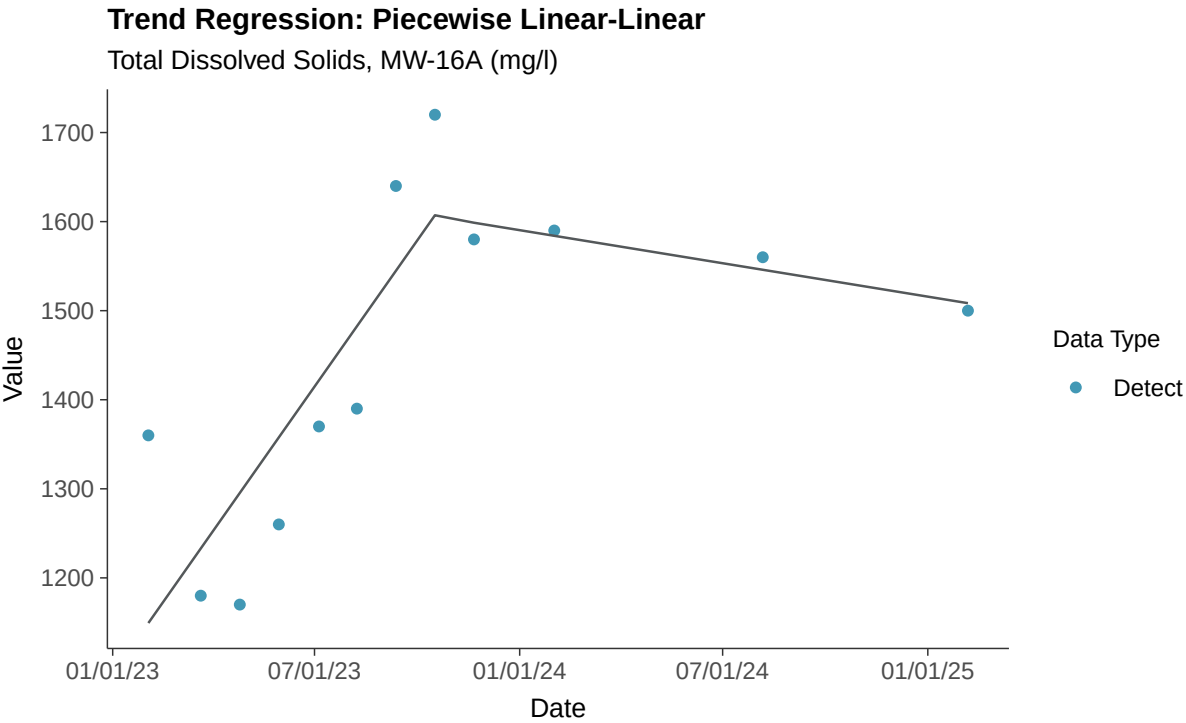


Lognormal Q-Q plot

Total Dissolved Solids, MW-16A (mg/l)



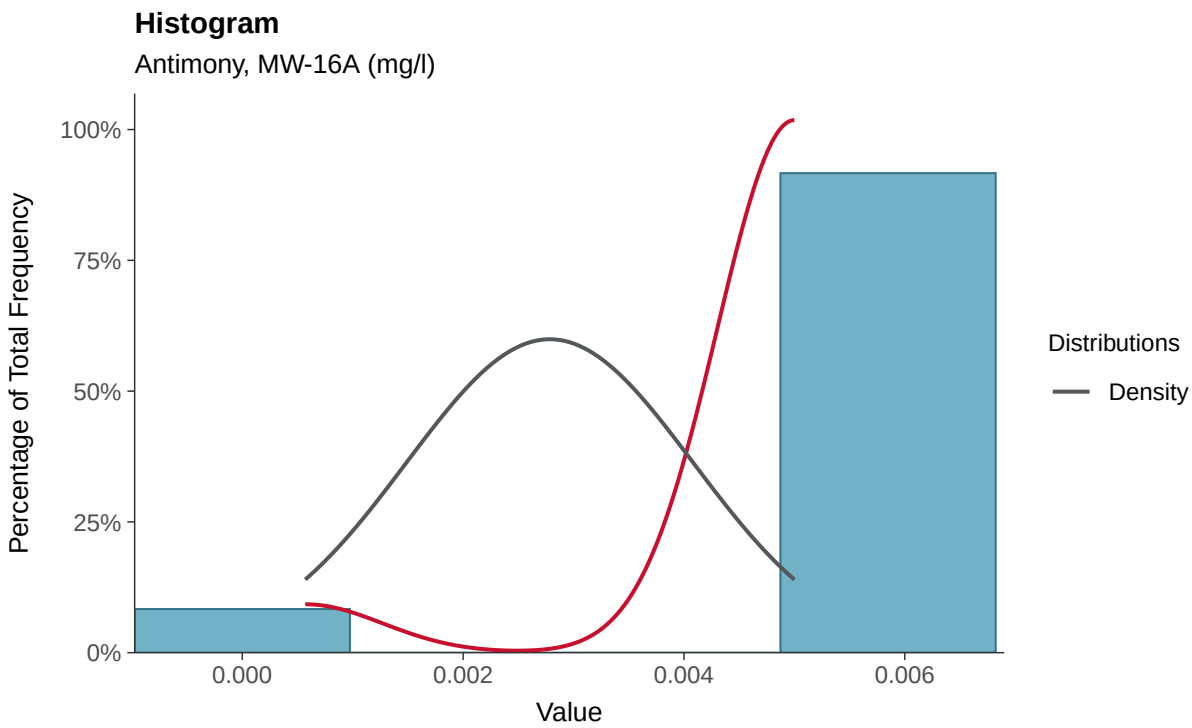
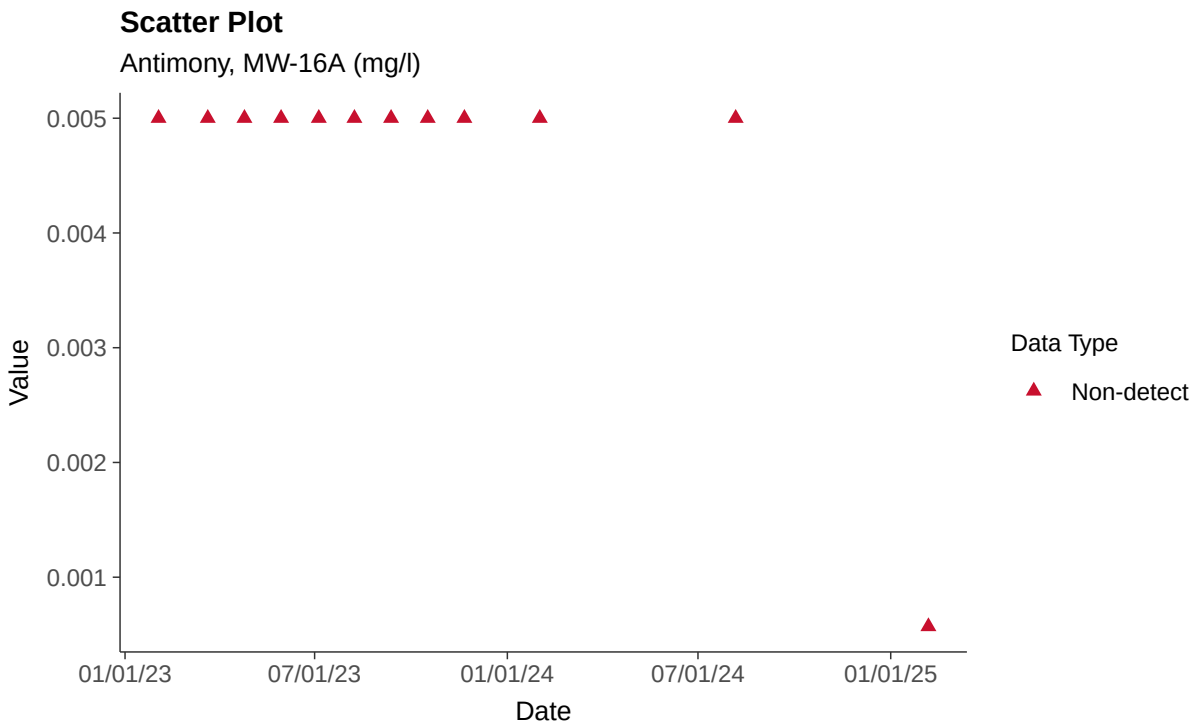


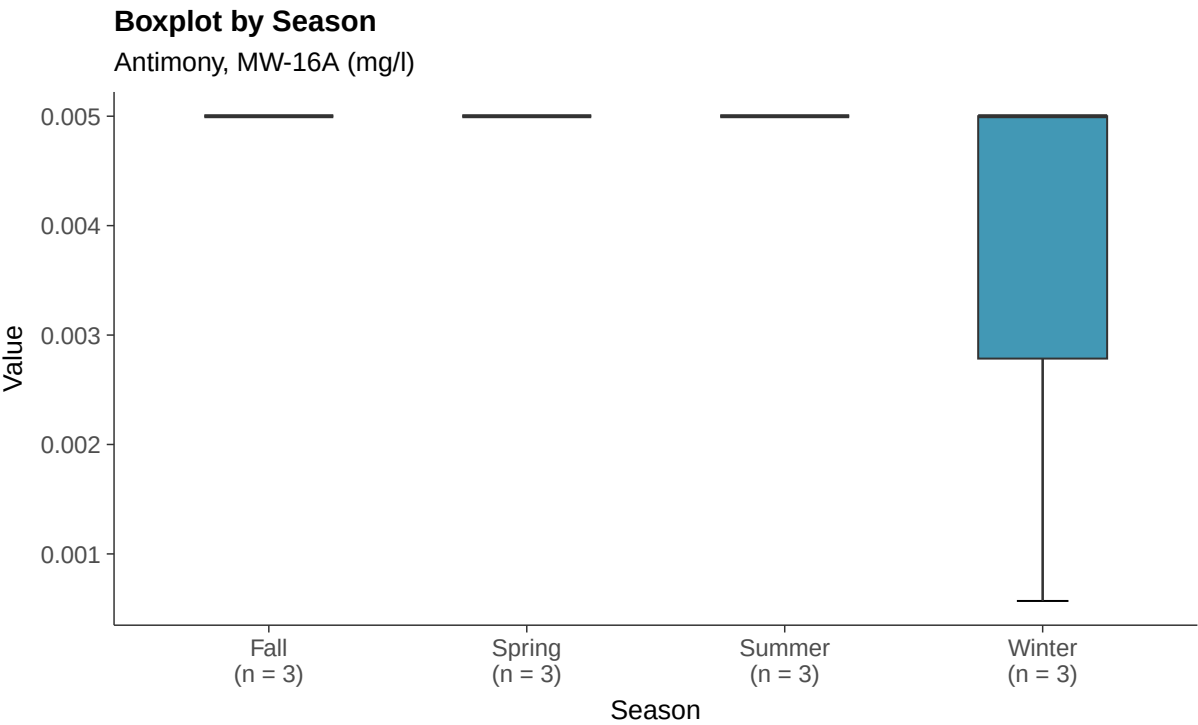
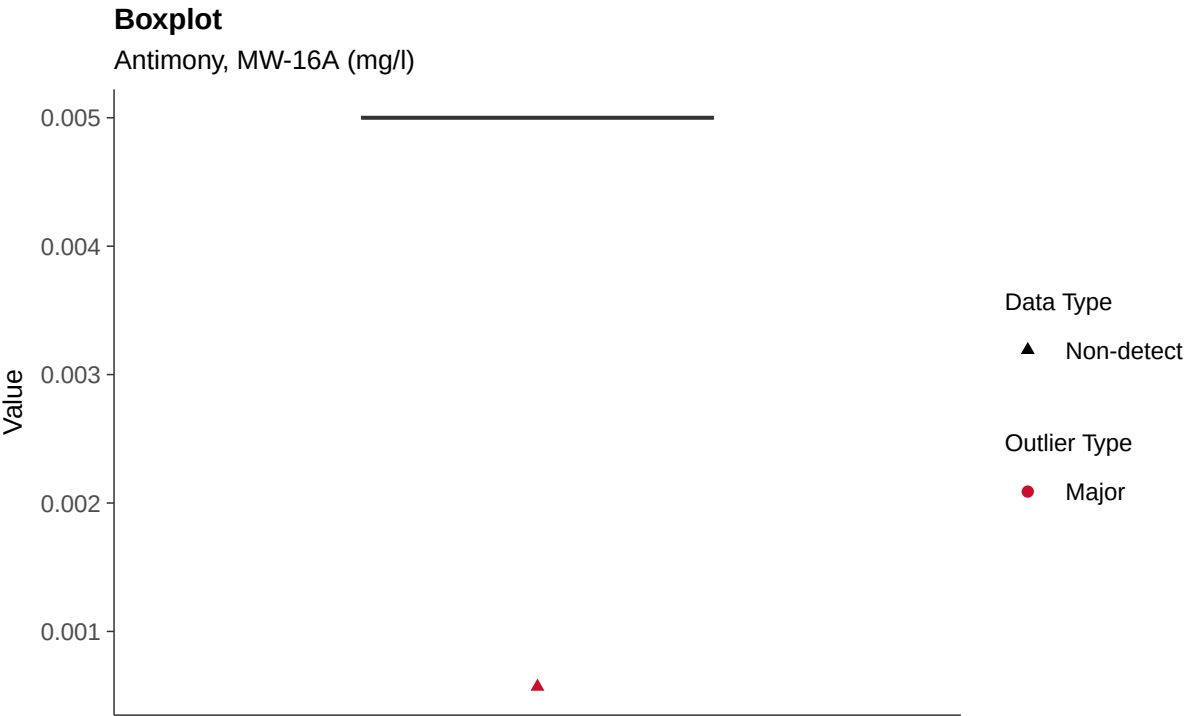




Appendix IV: Antimony, MW-16A

ID: 23_3_101

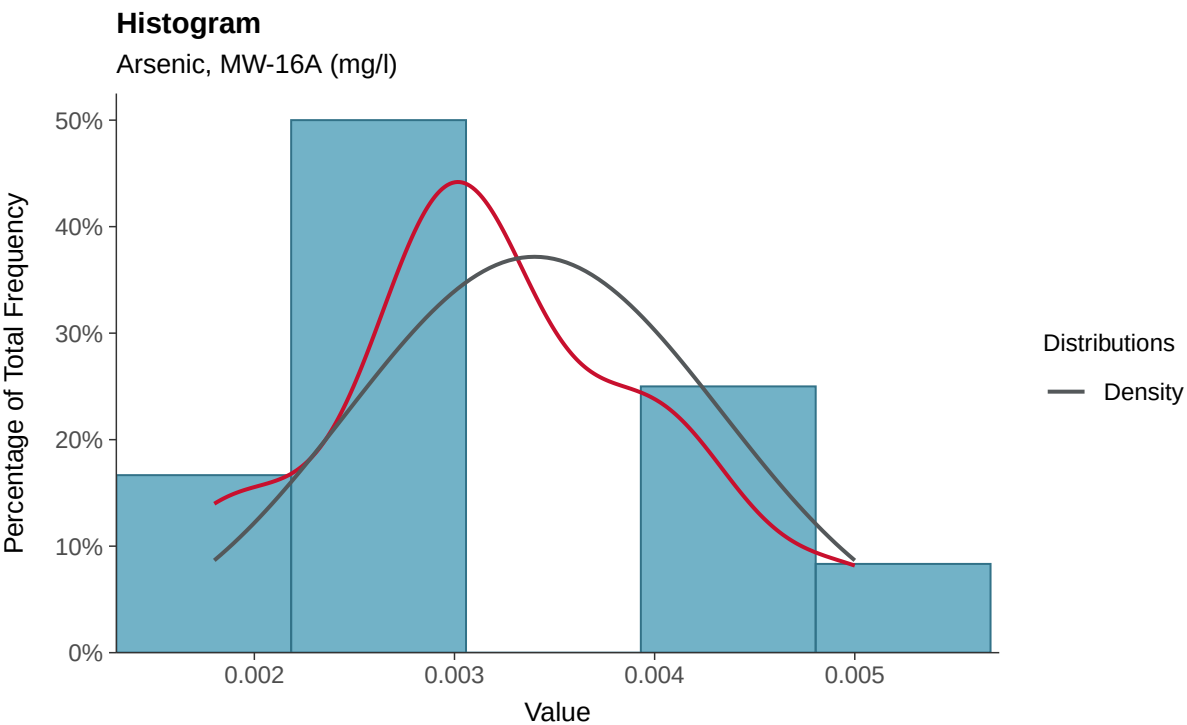
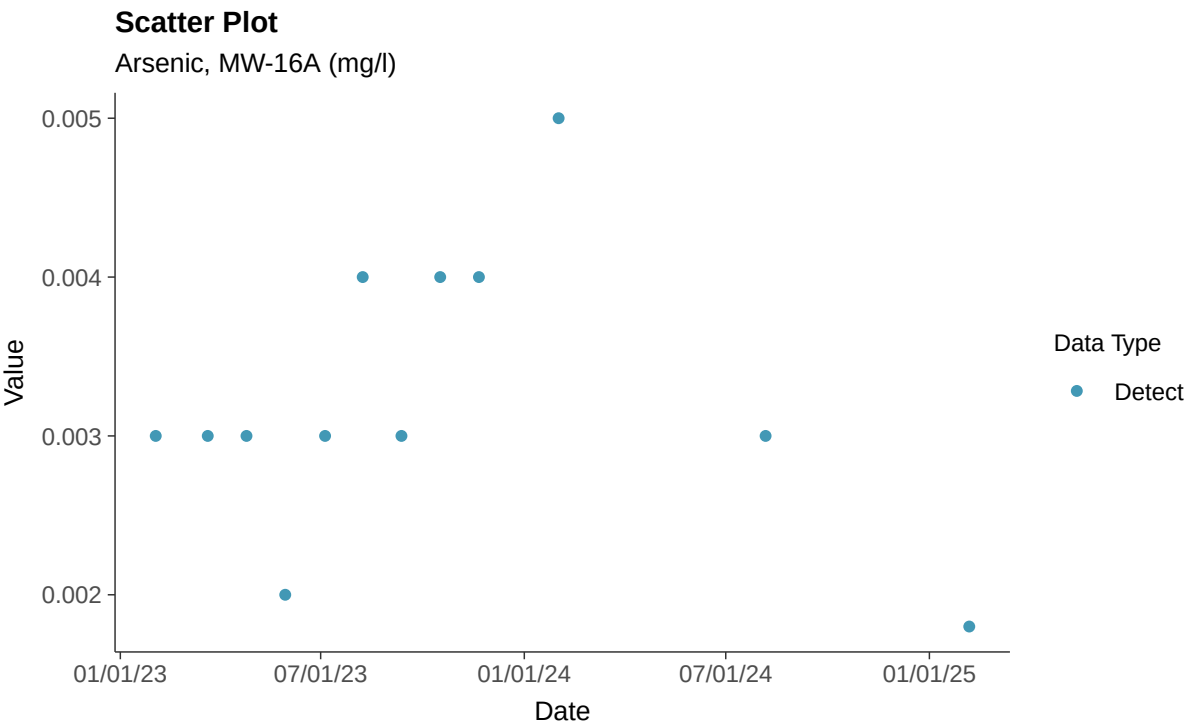


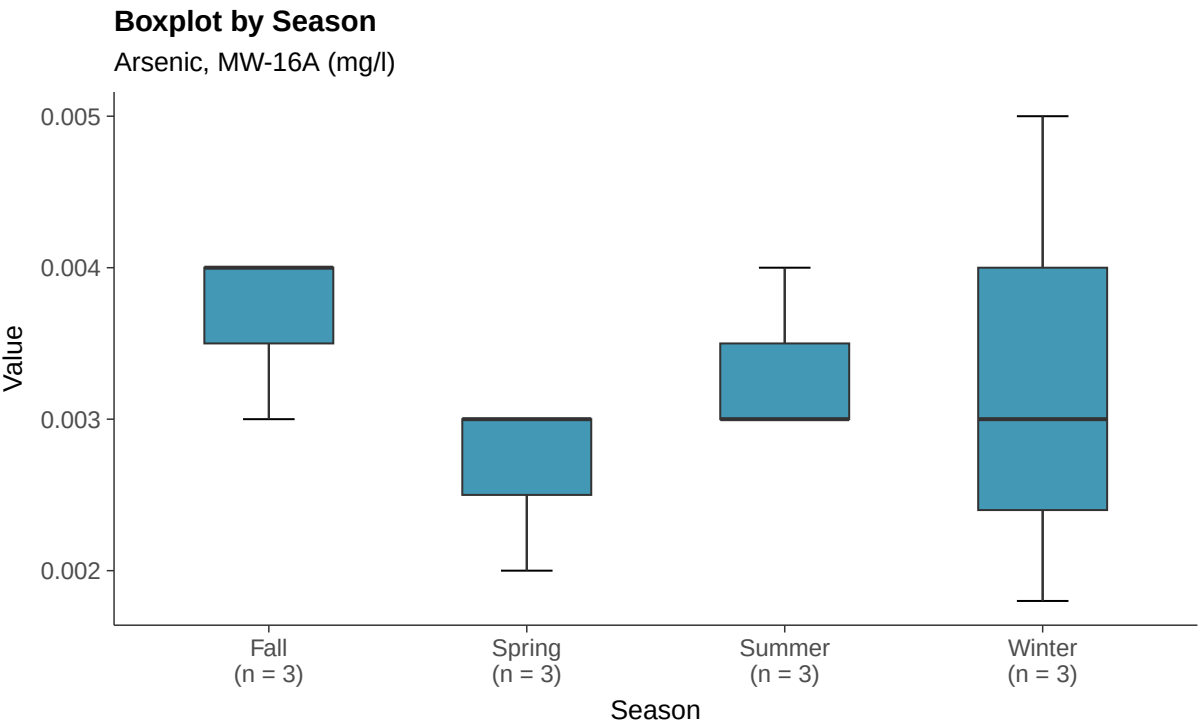
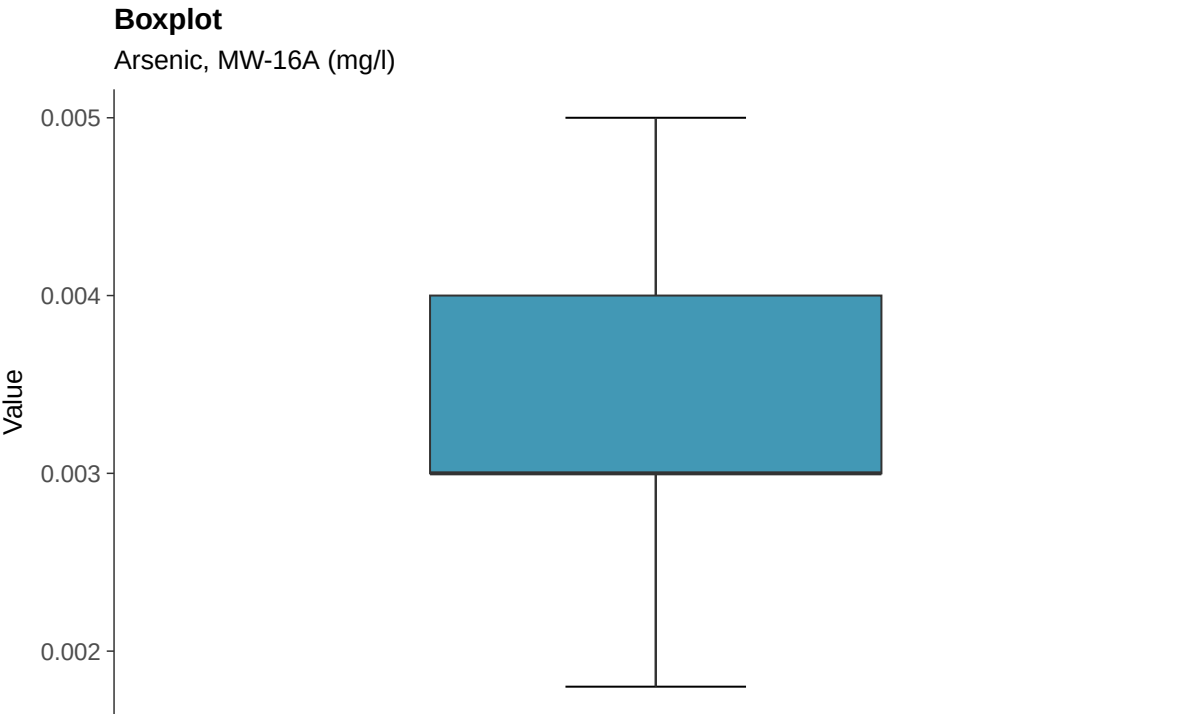


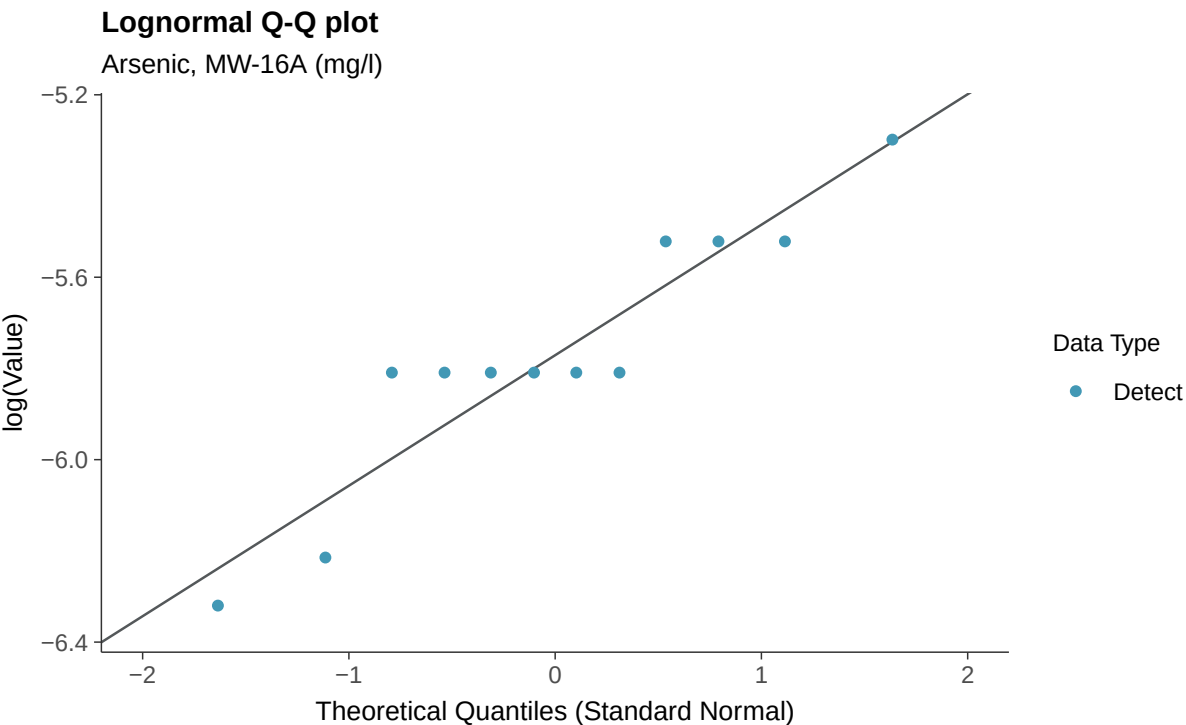
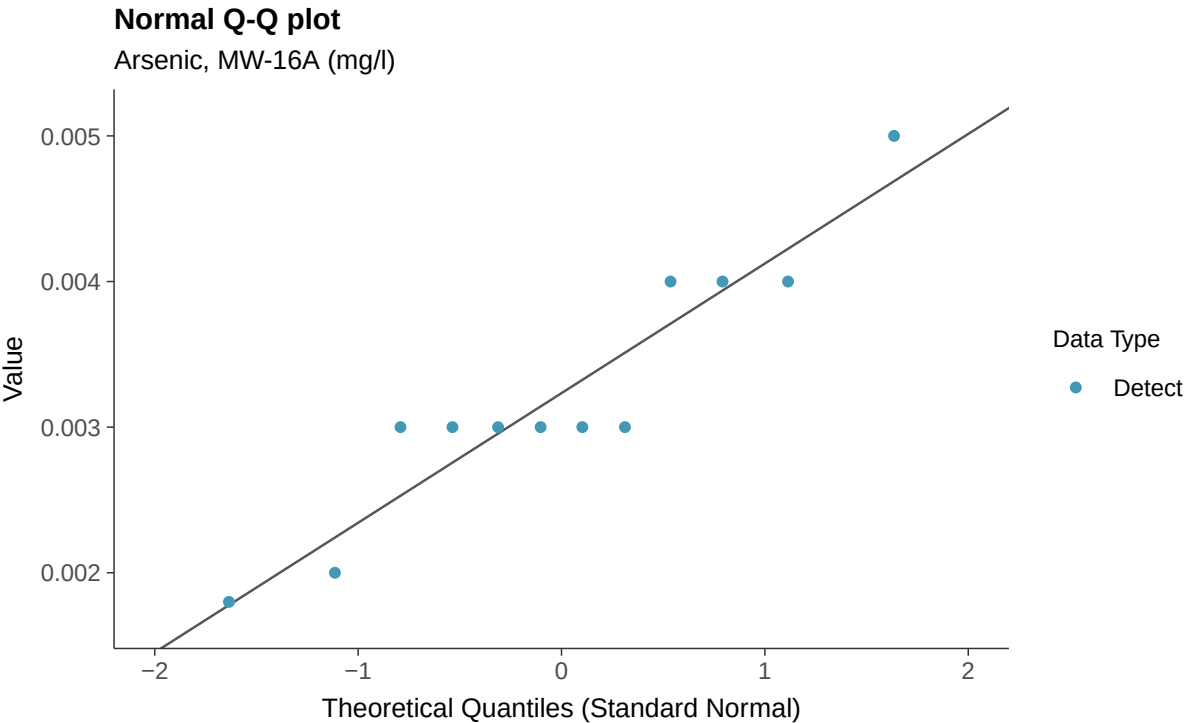


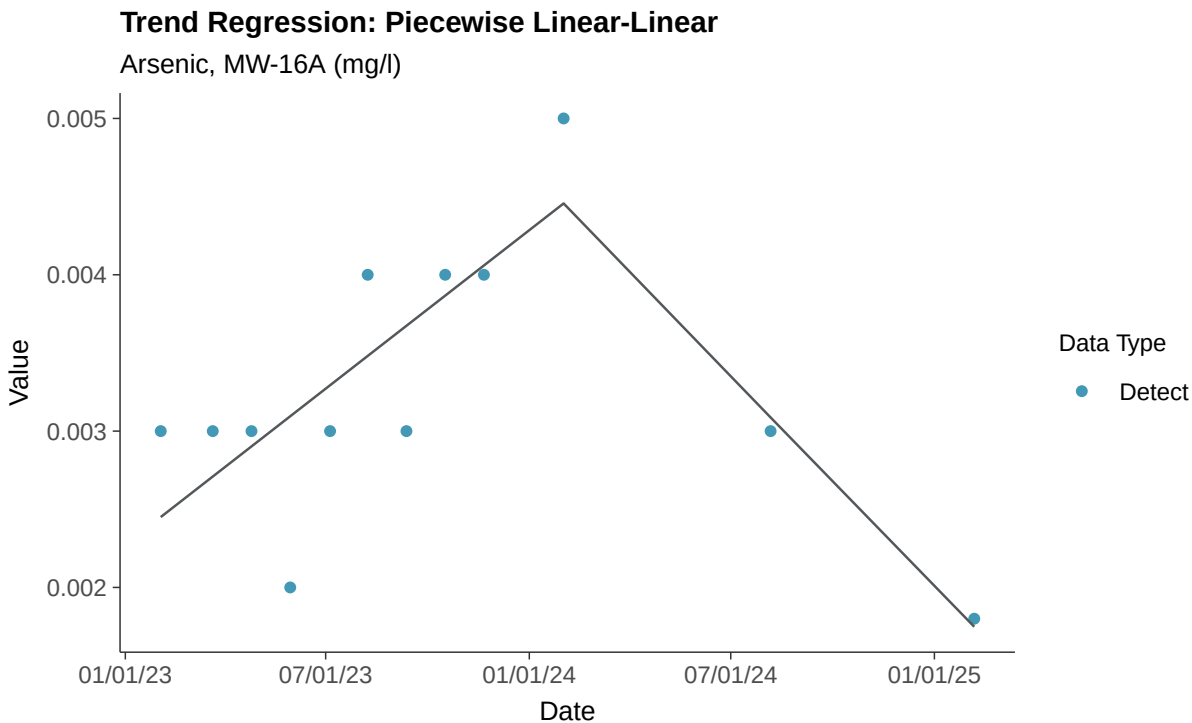
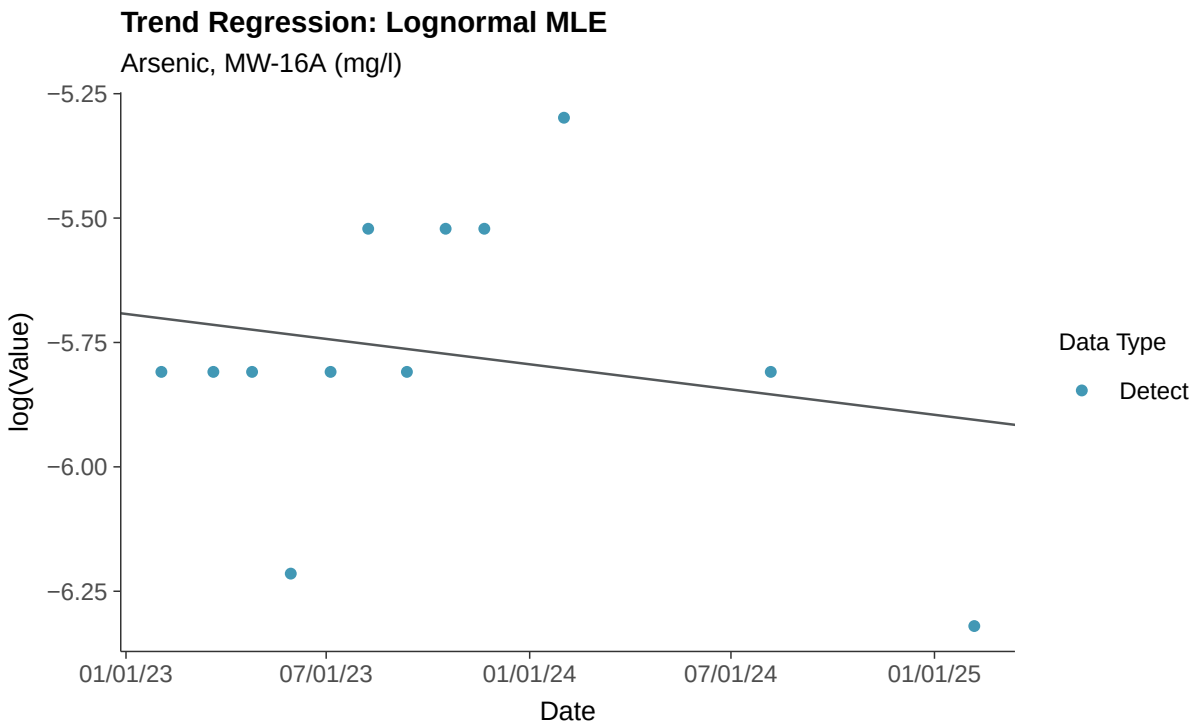
Appendix IV: Arsenic, MW-16A

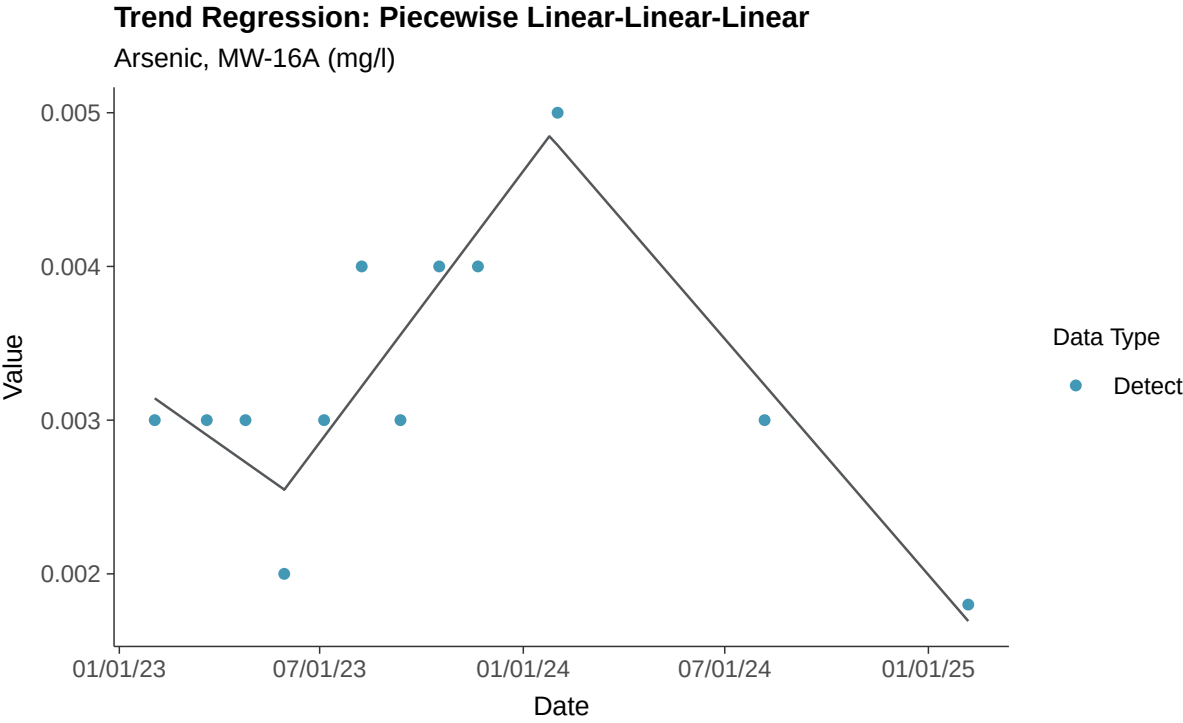
ID: 23_3_102







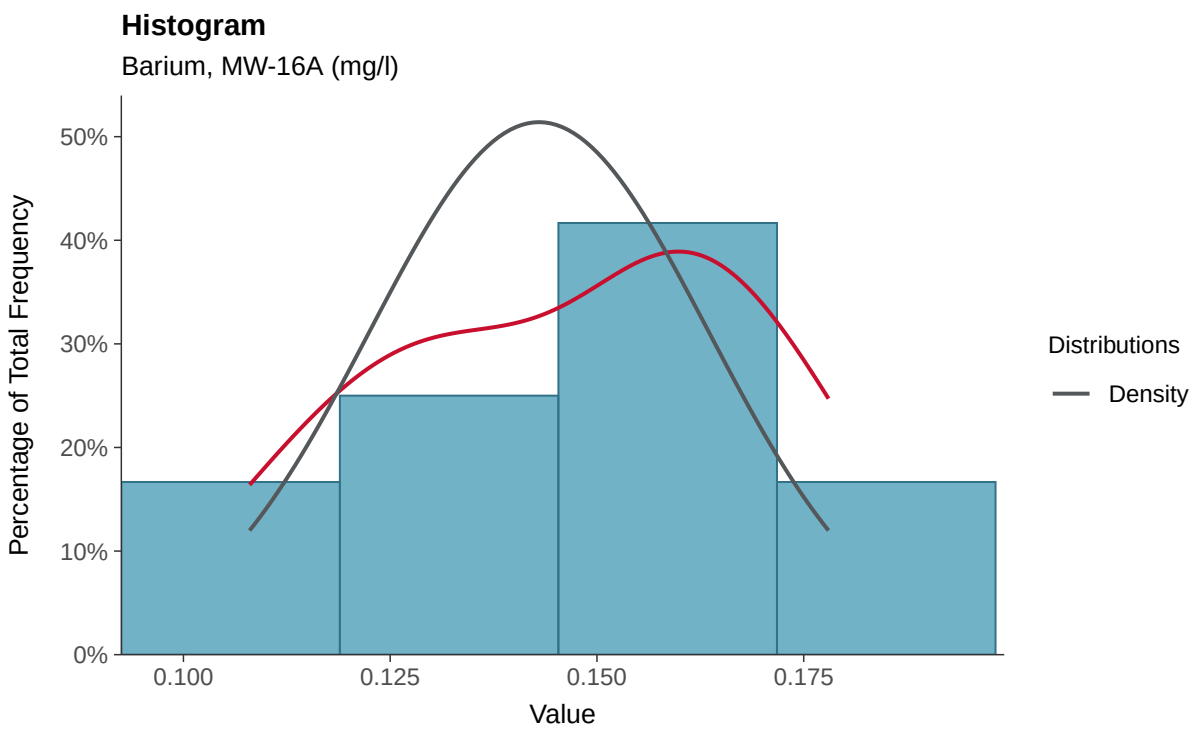
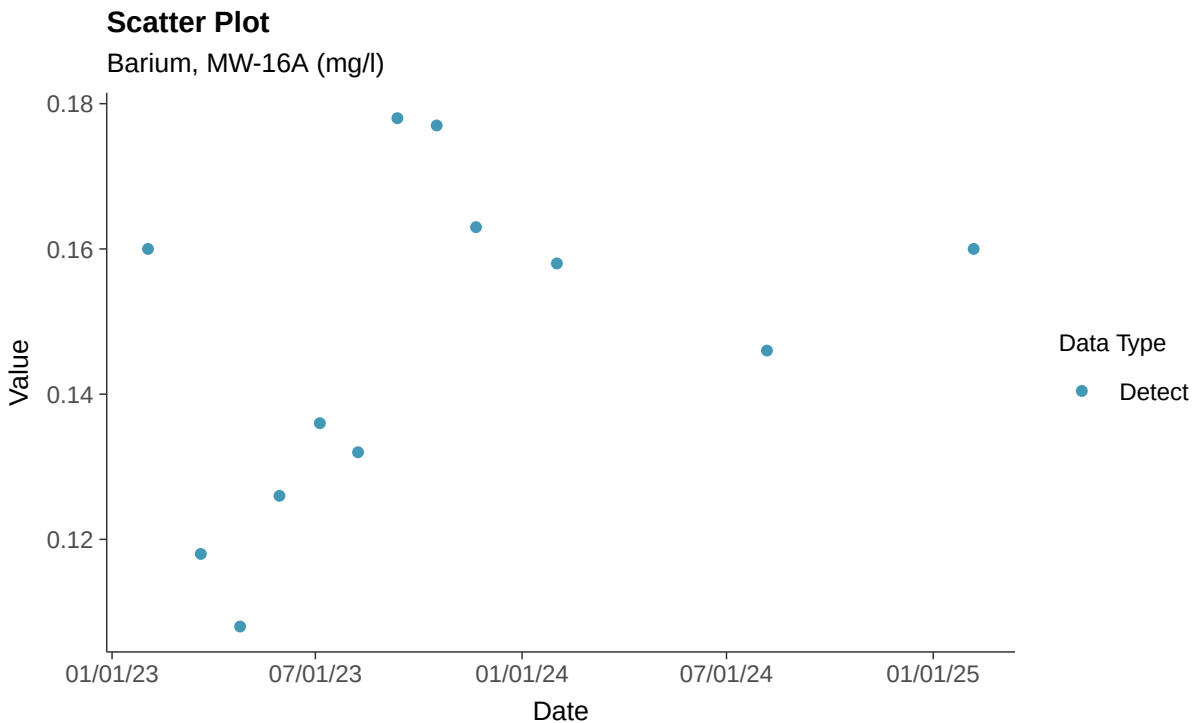


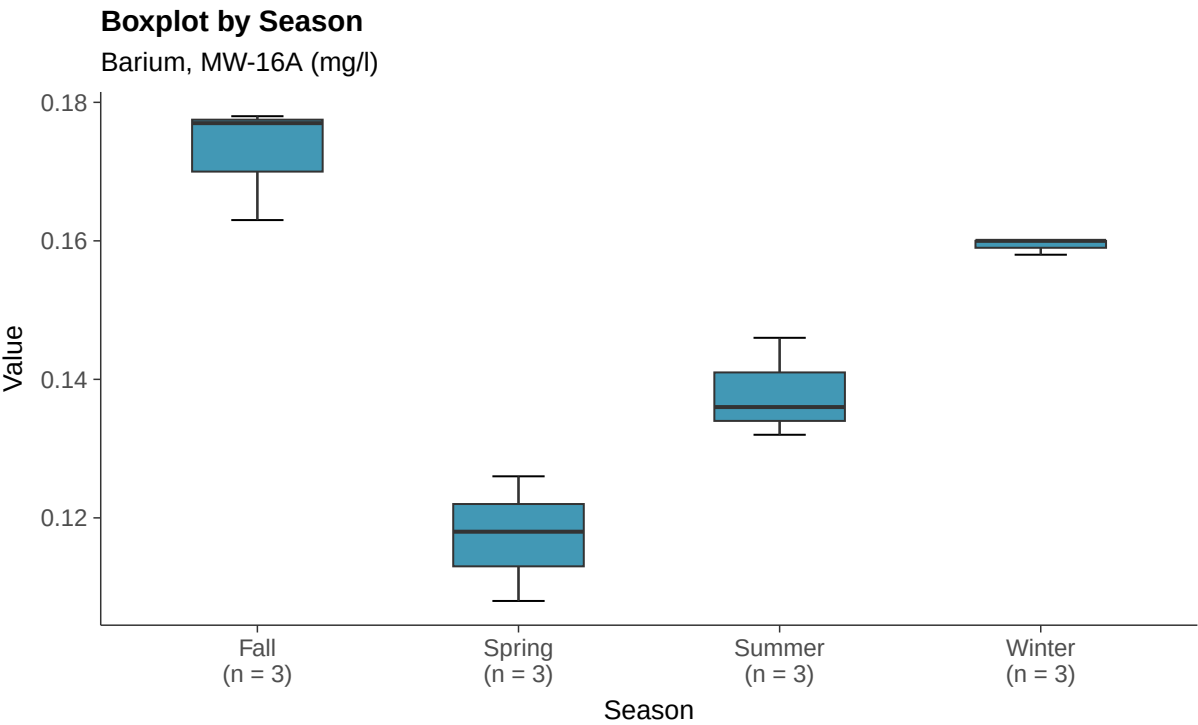
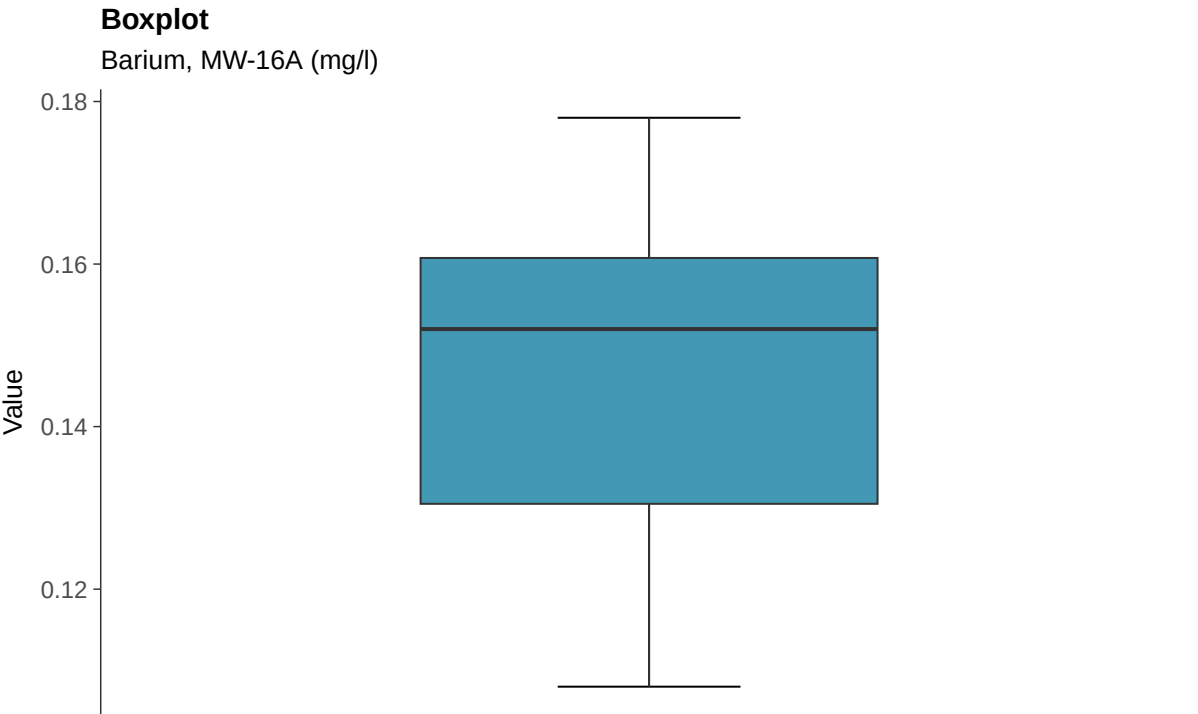


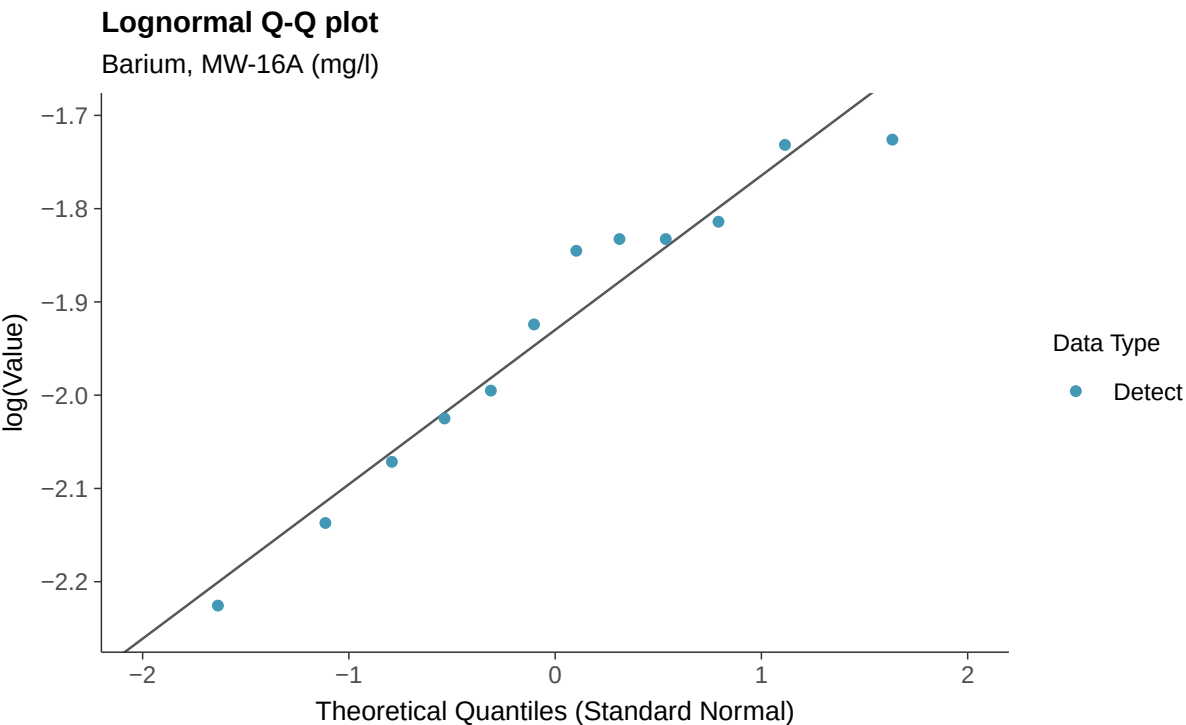
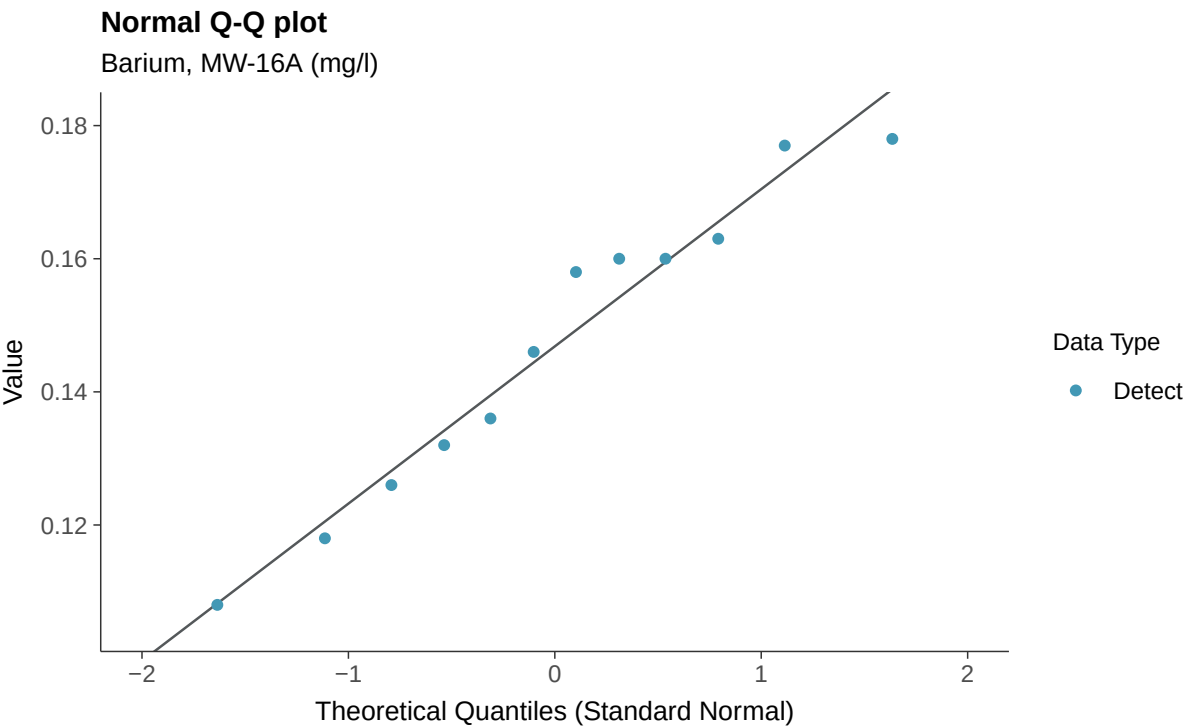


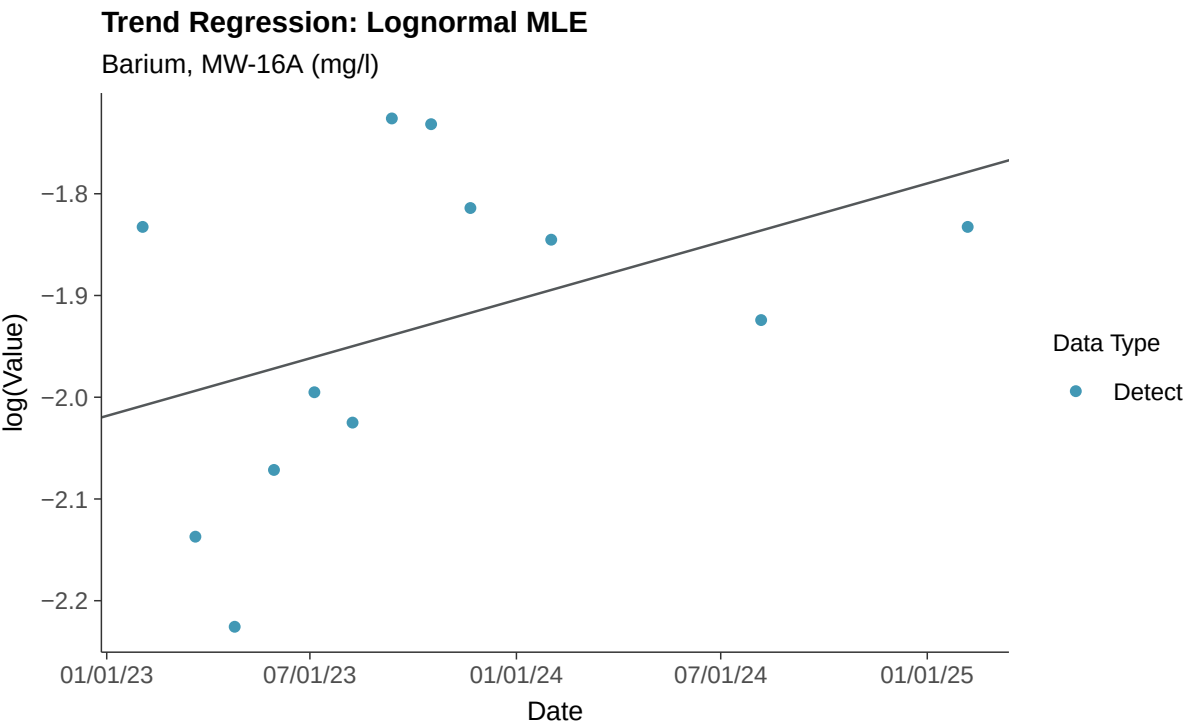
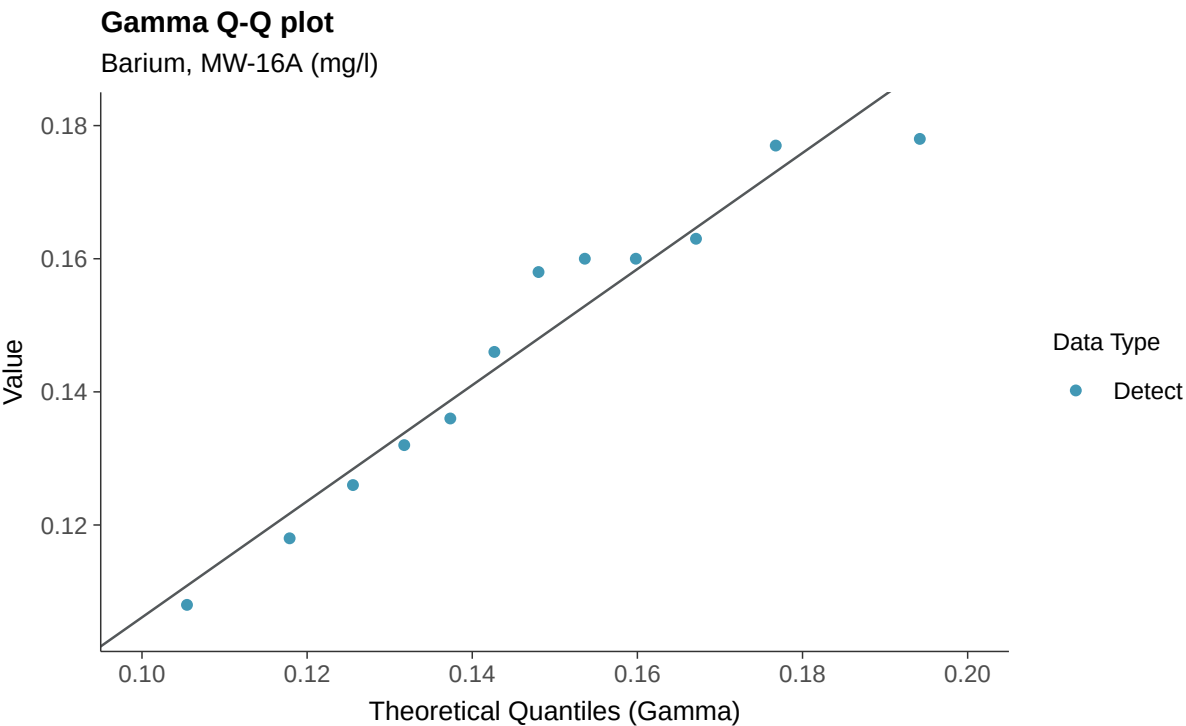
Appendix IV: Barium, MW-16A

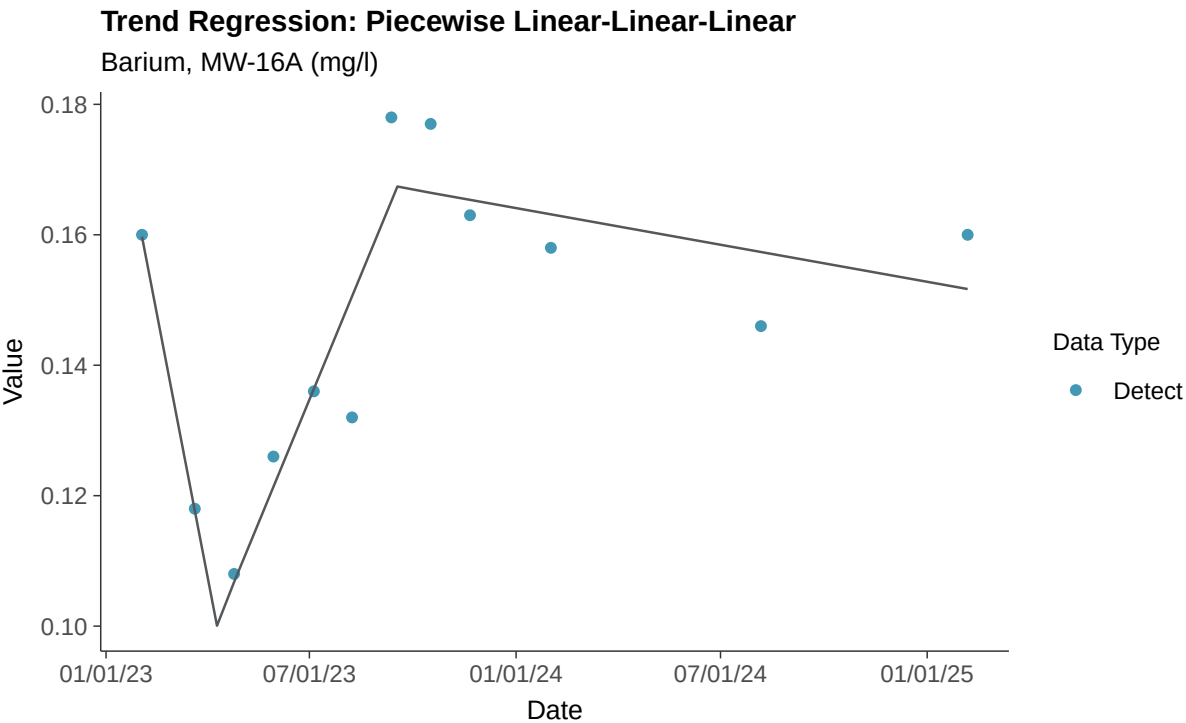
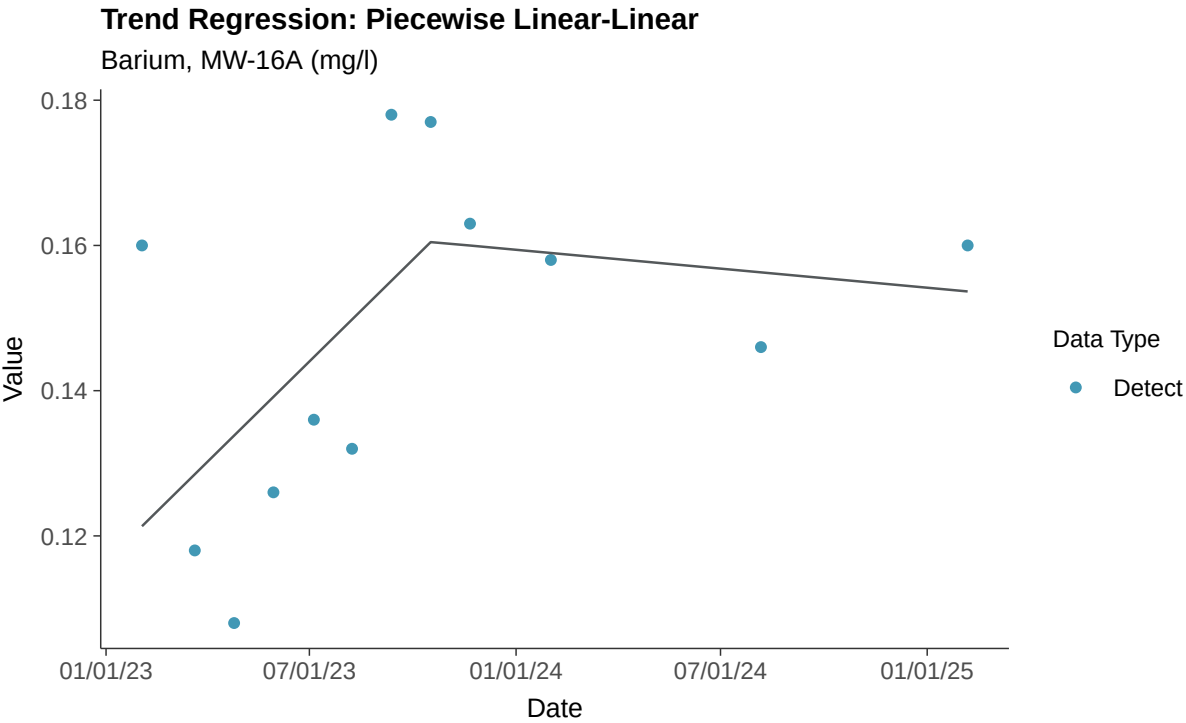
ID: 23_3_103







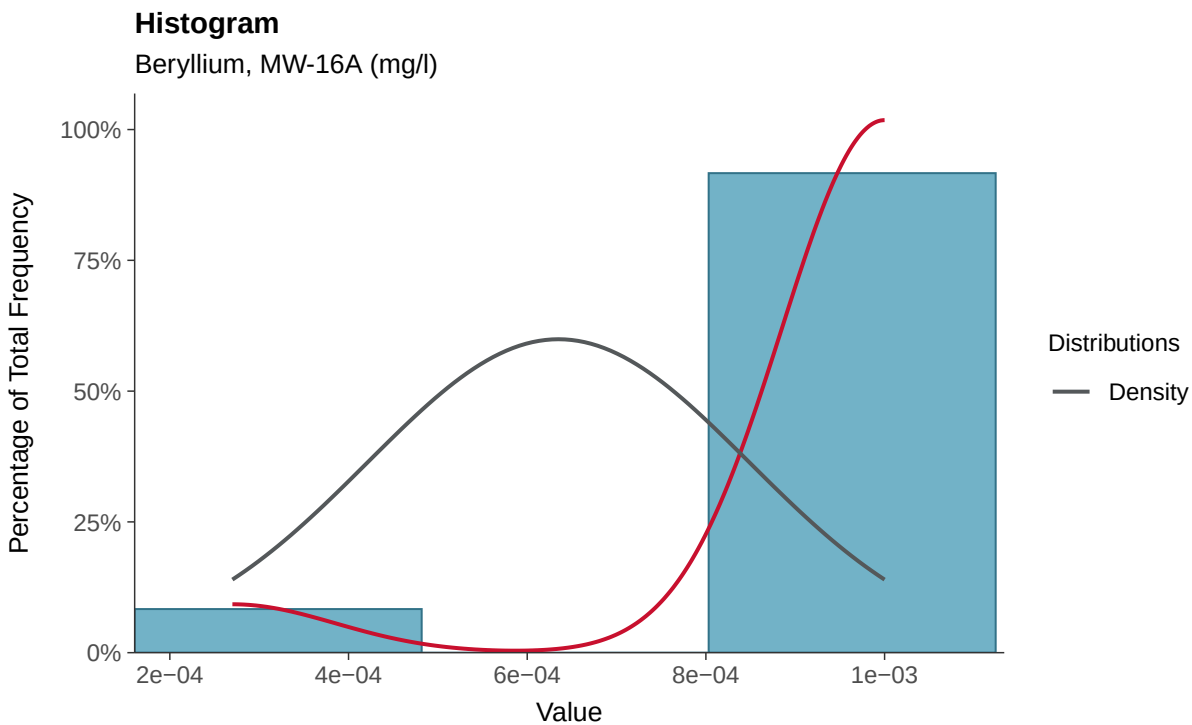
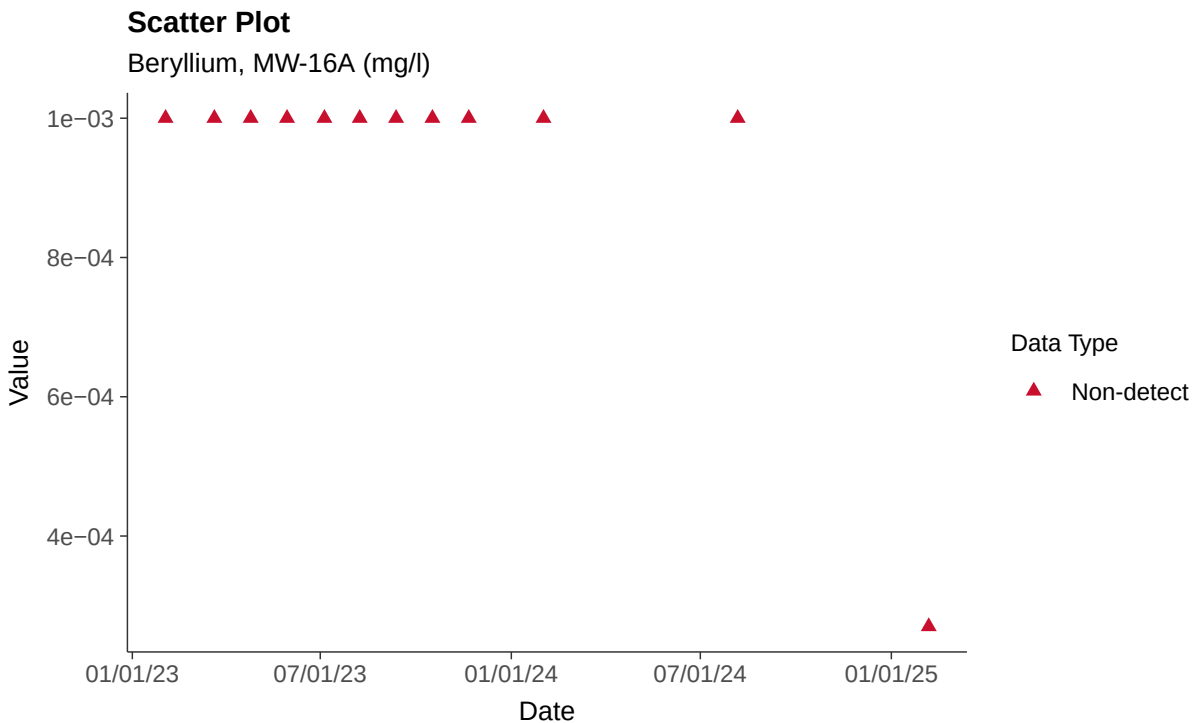


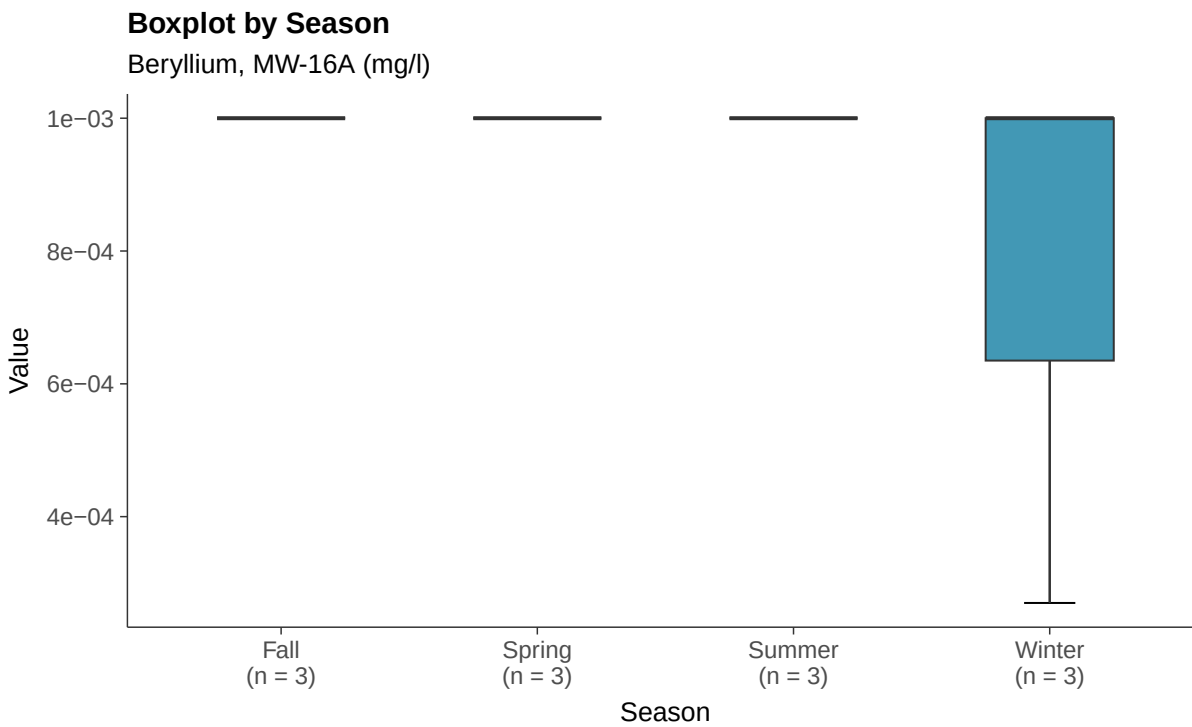
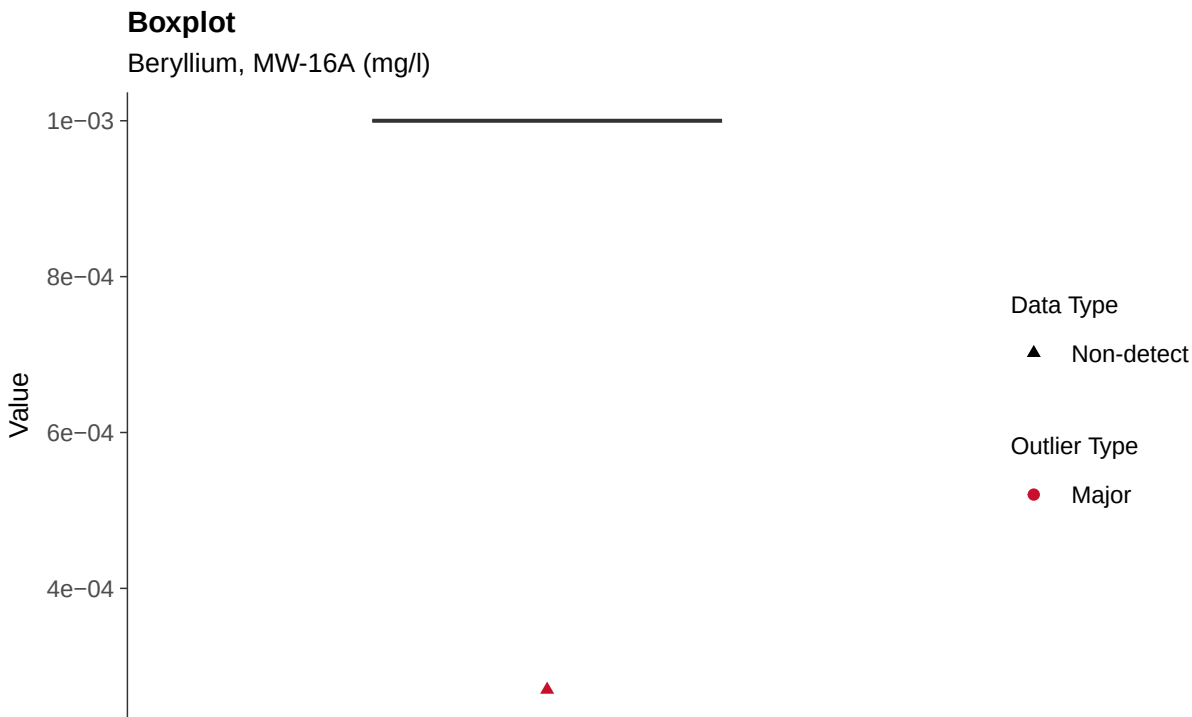




Appendix IV: Beryllium, MW-16A

ID: 23_3_104

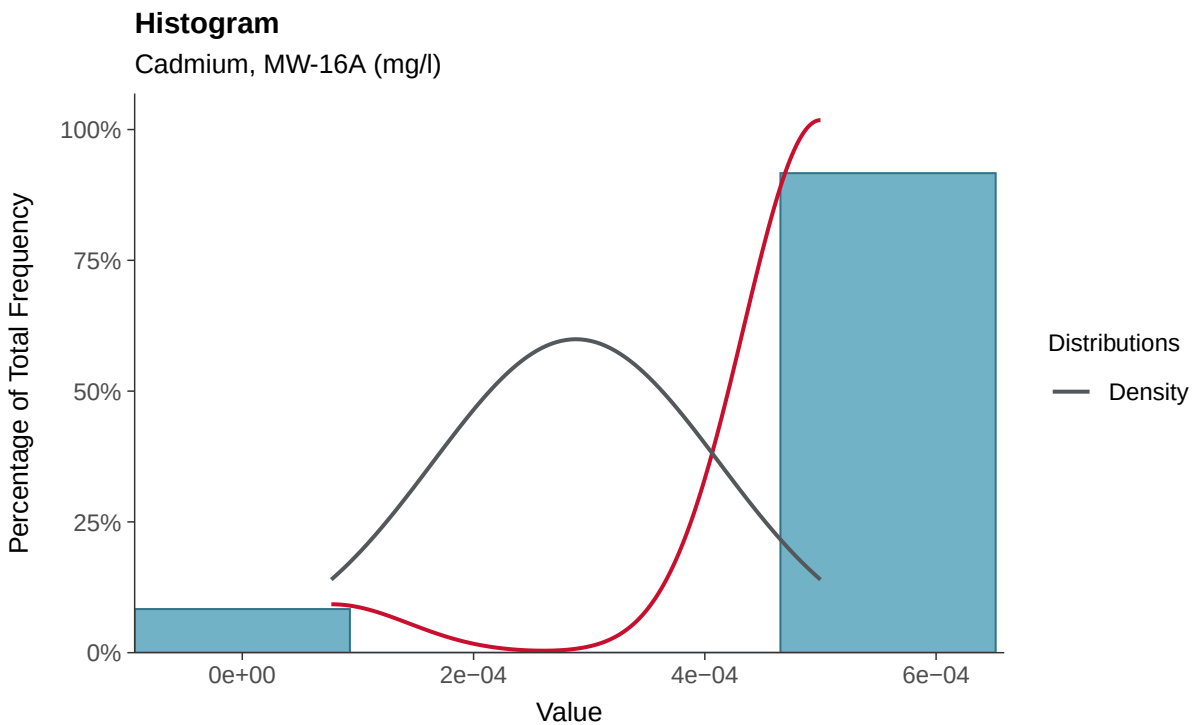
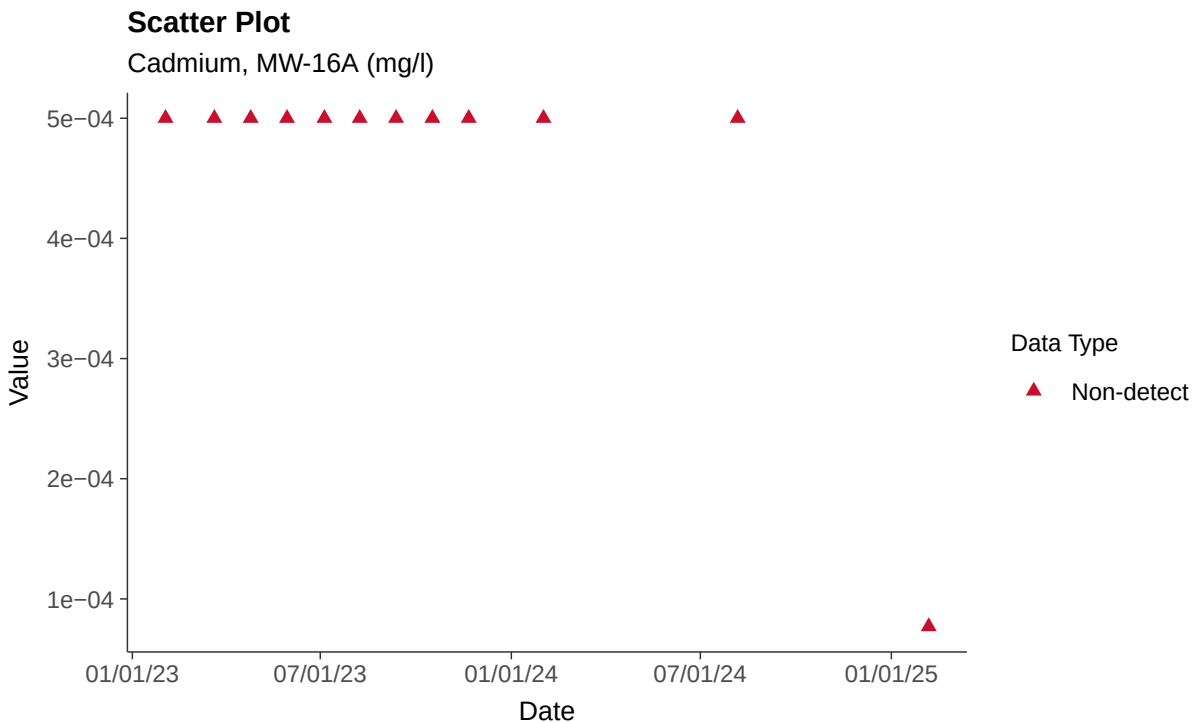


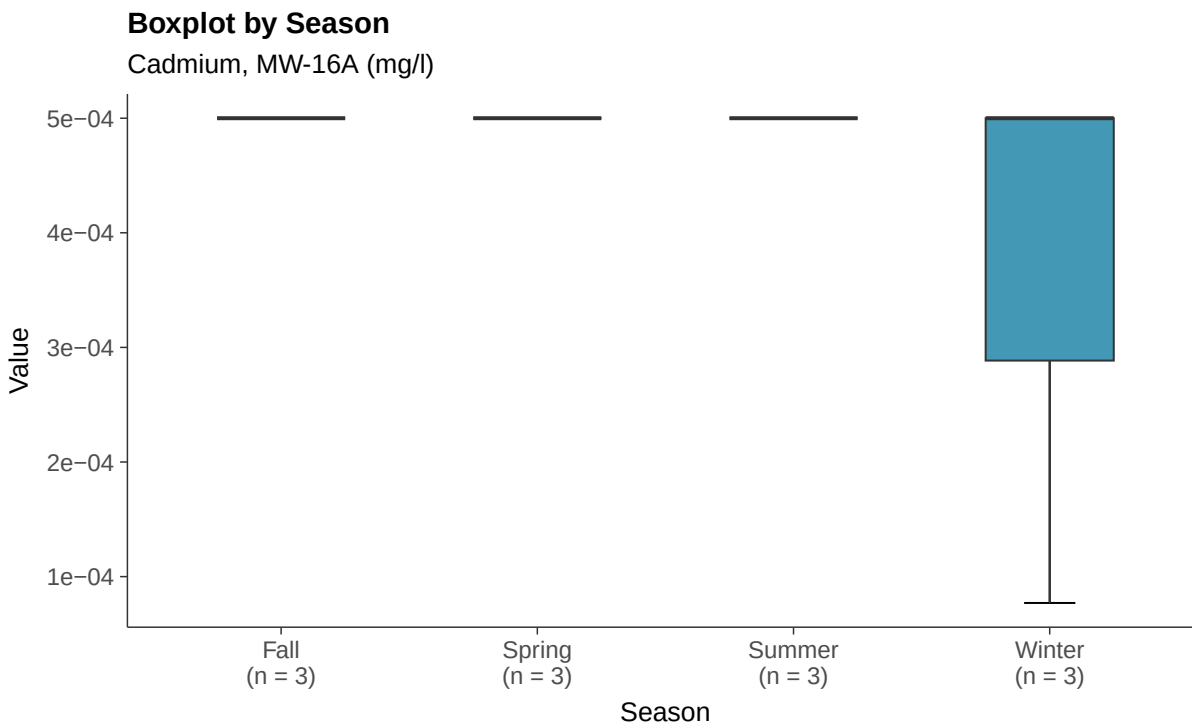
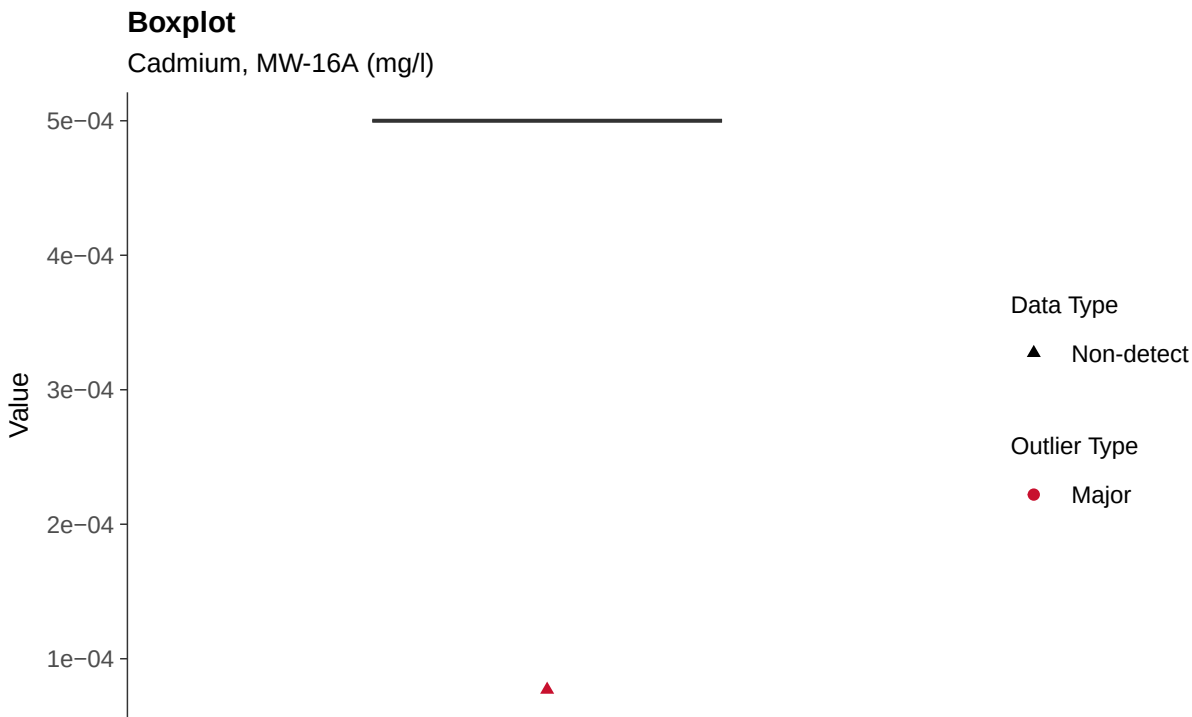




Appendix IV: Cadmium, MW-16A

ID: 23_3_106

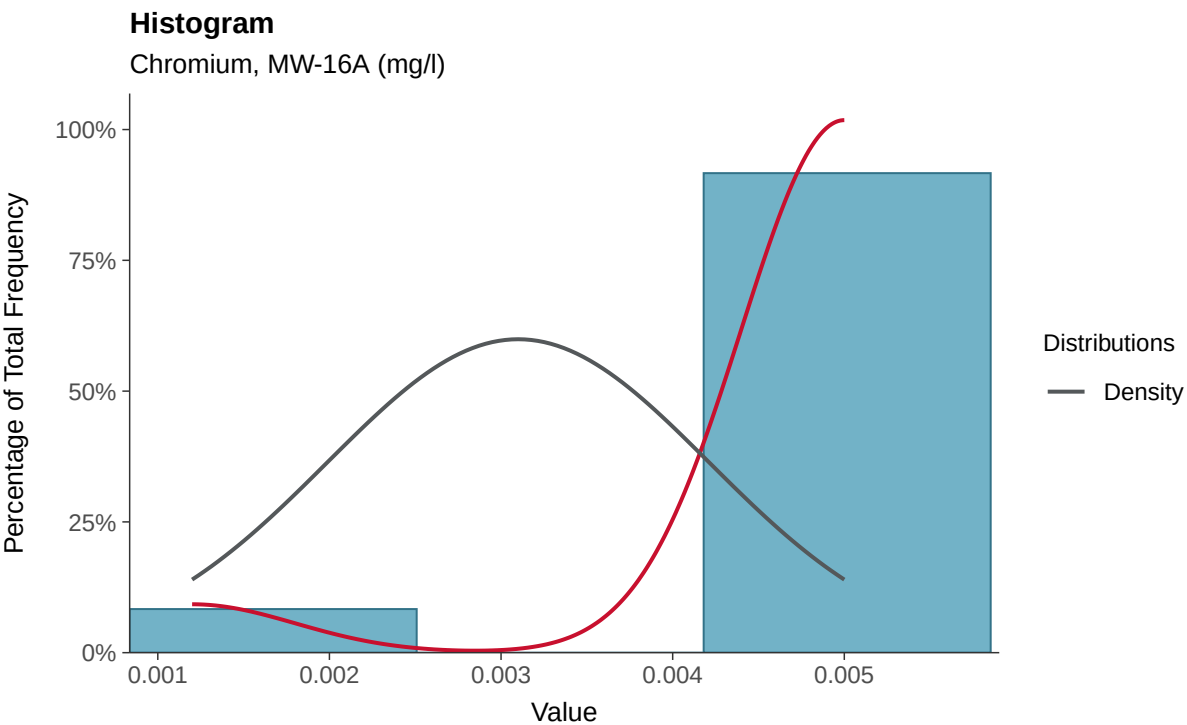
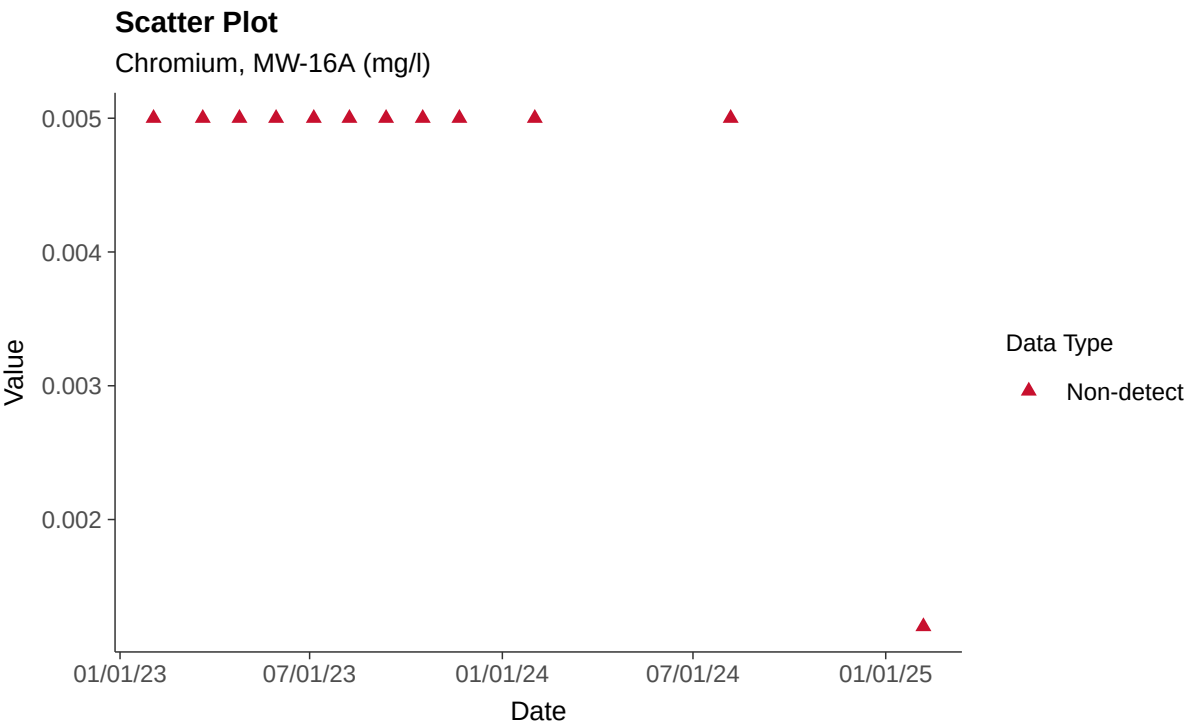


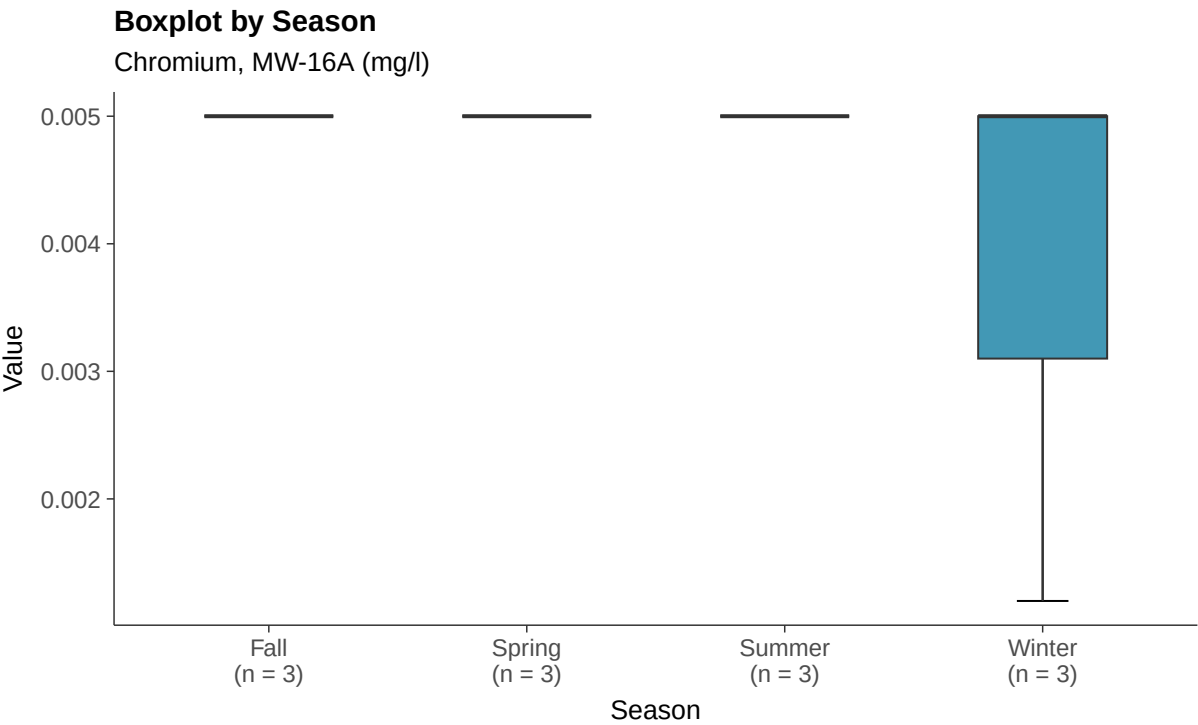
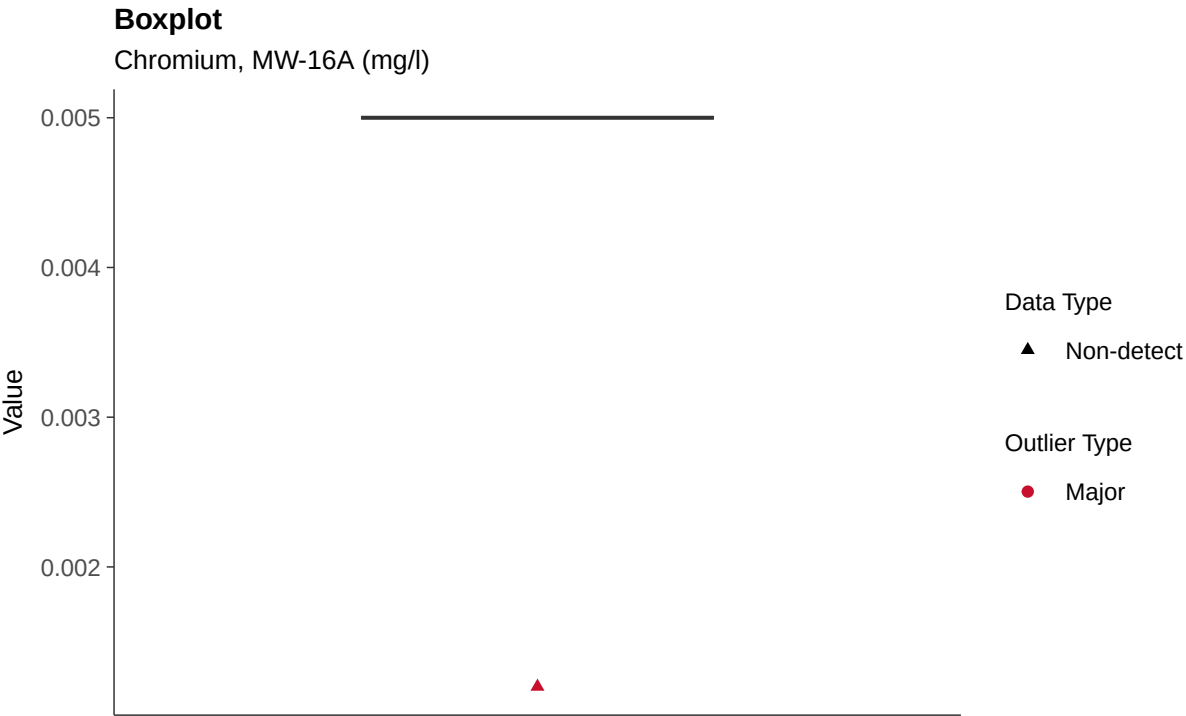




Appendix IV: Chromium, MW-16A

ID: 23_3_109

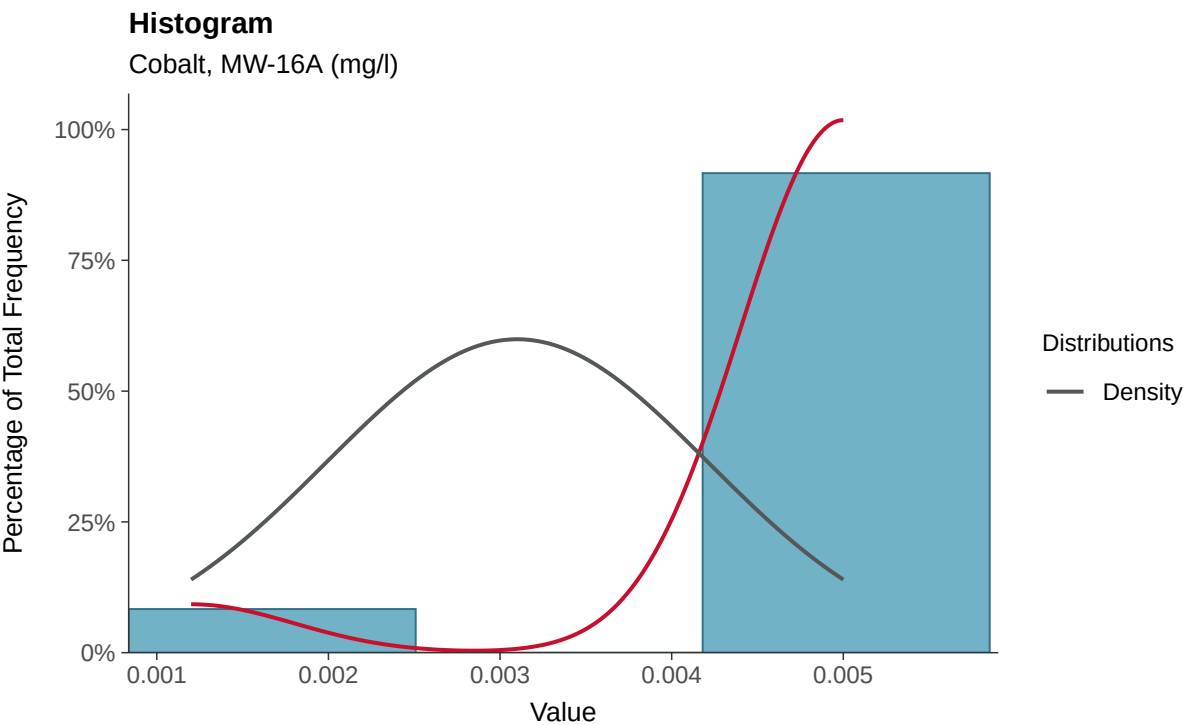
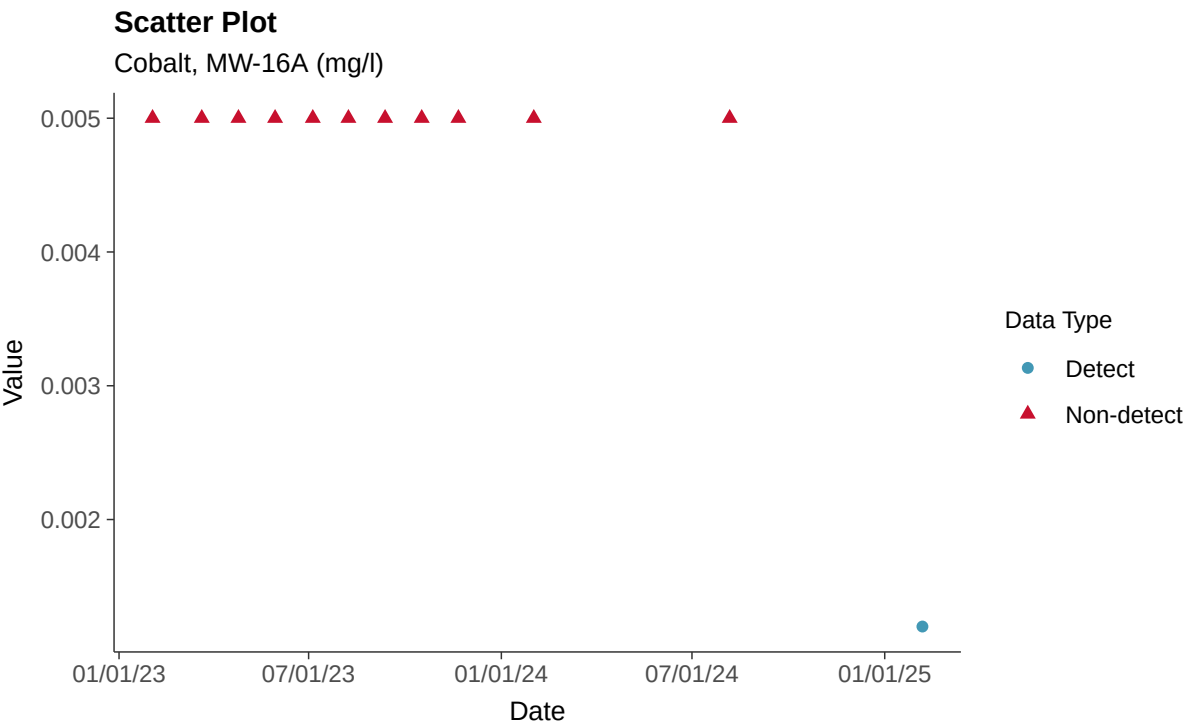


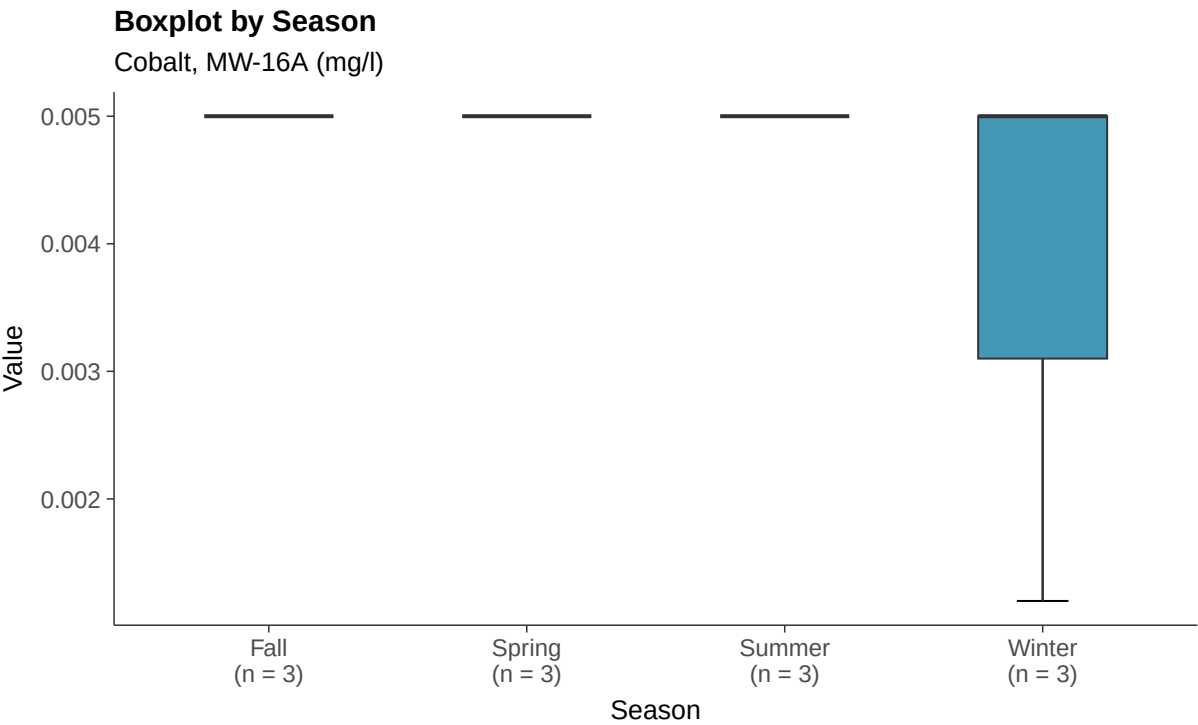
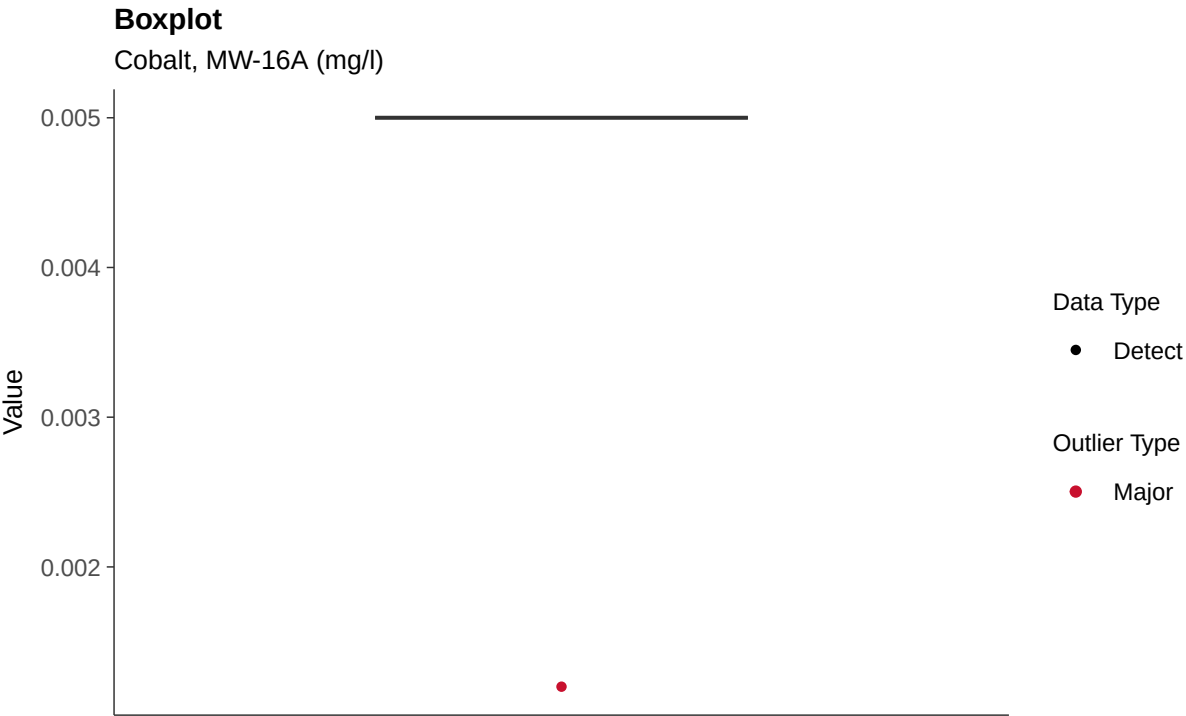




Appendix IV: Cobalt, MW-16A

ID: 23_3_110

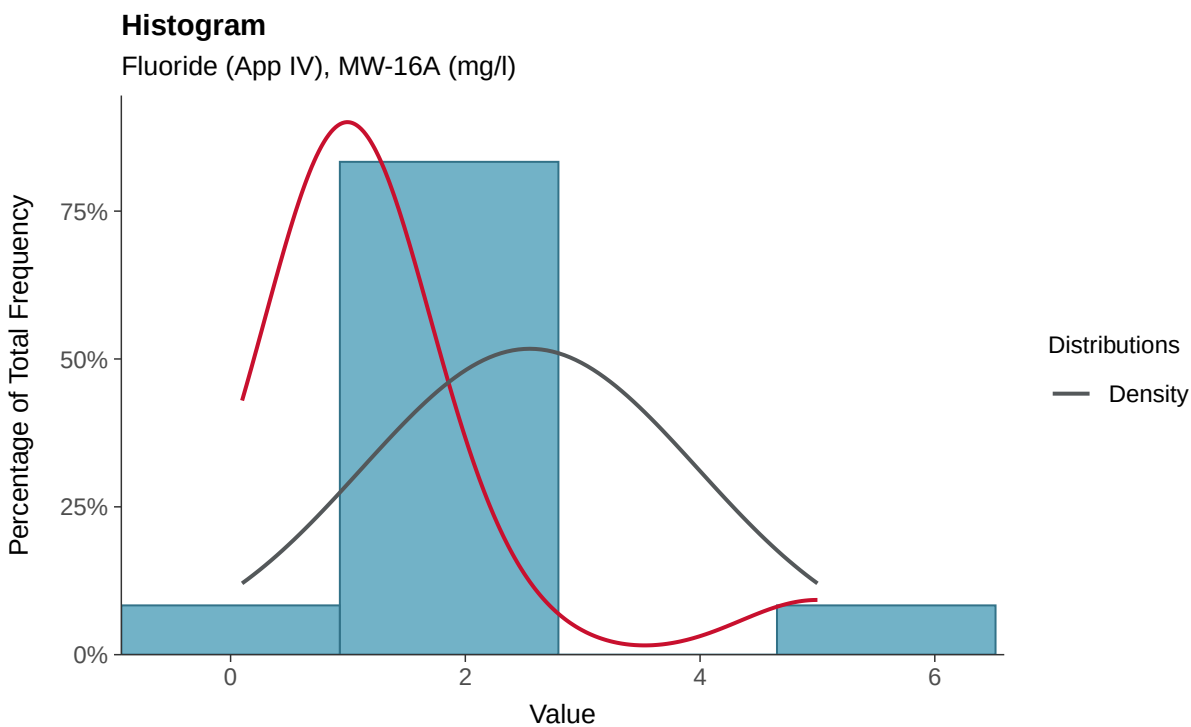
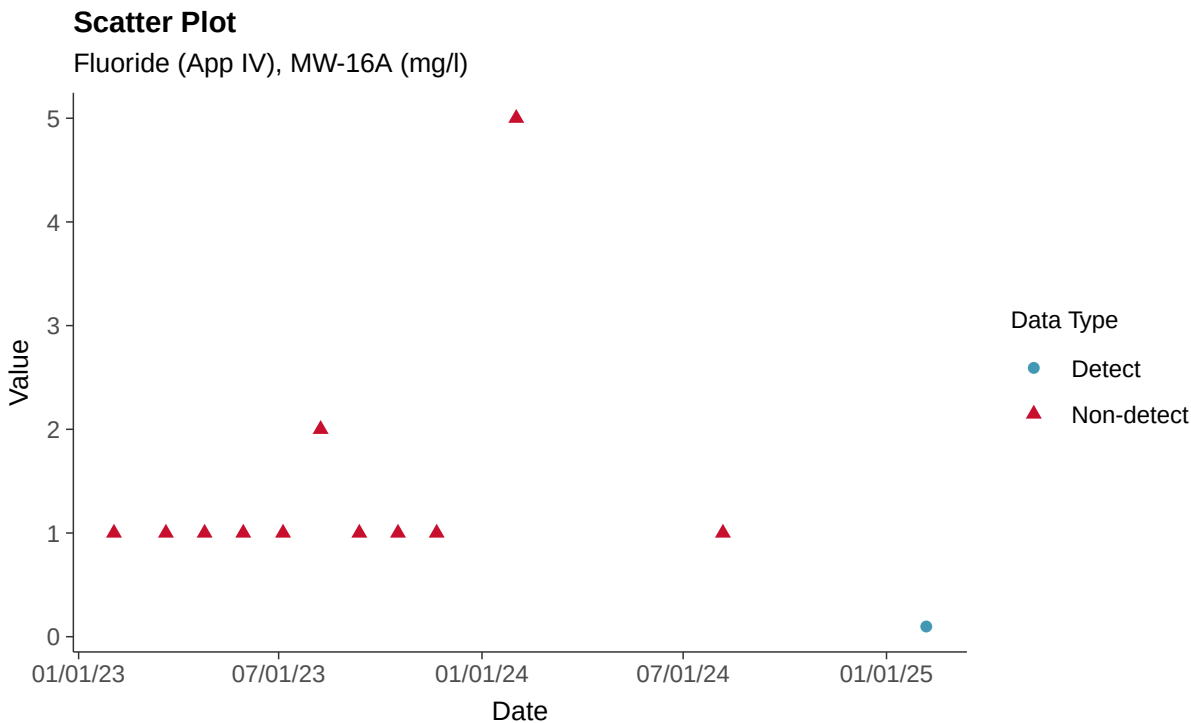


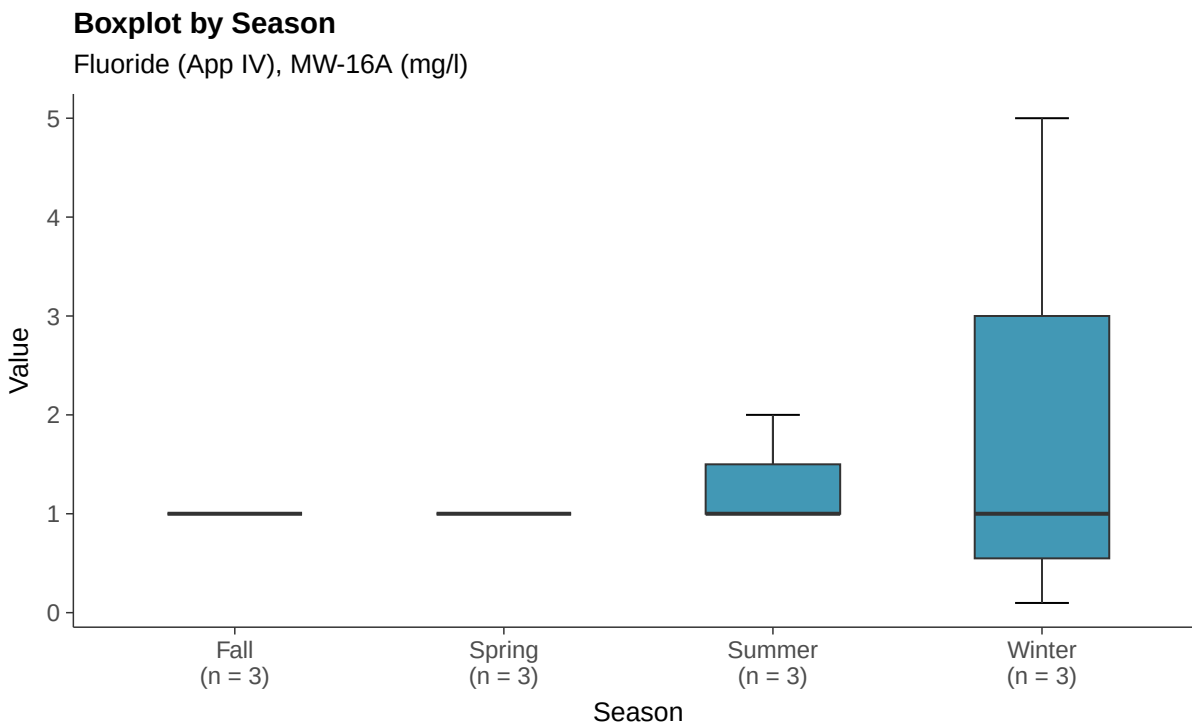
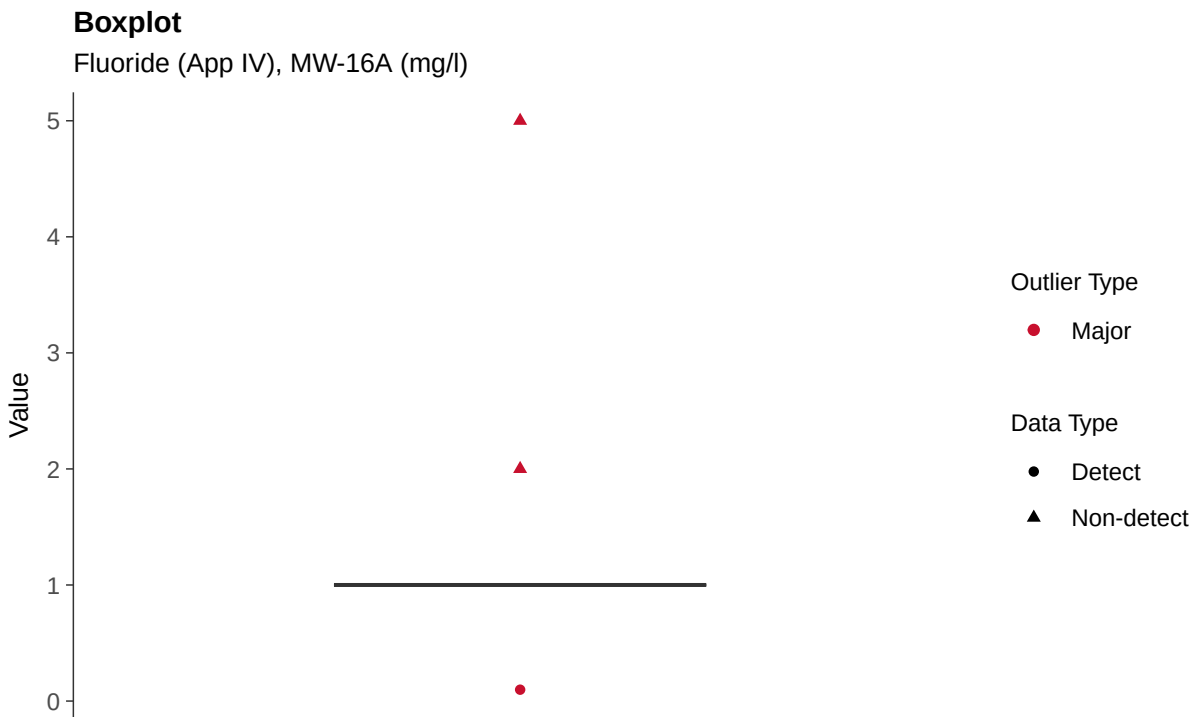


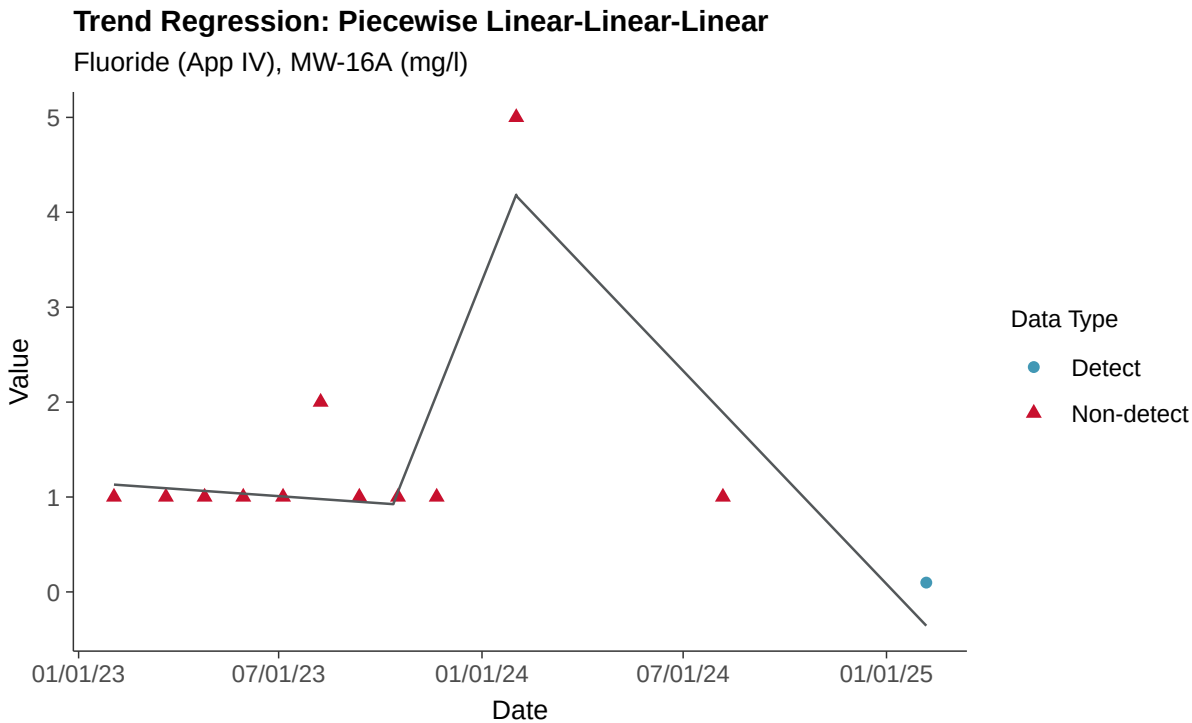
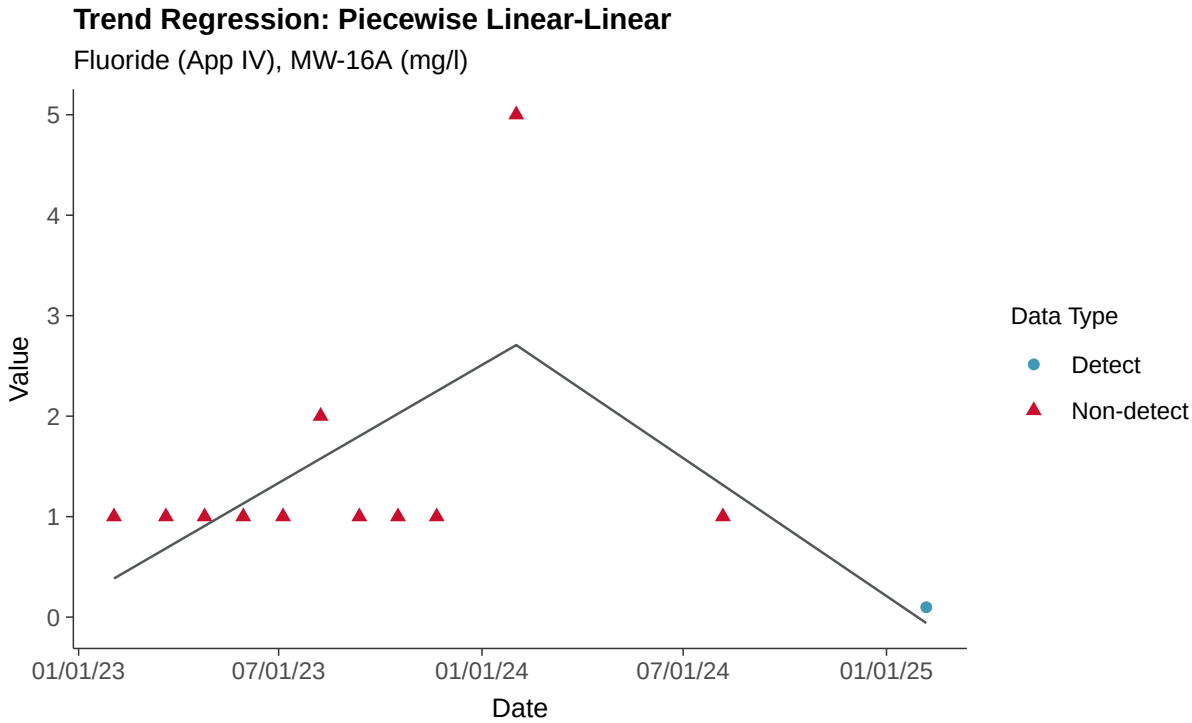


Appendix IV: Fluoride (App IV), MW-16A

ID: 23_3_113



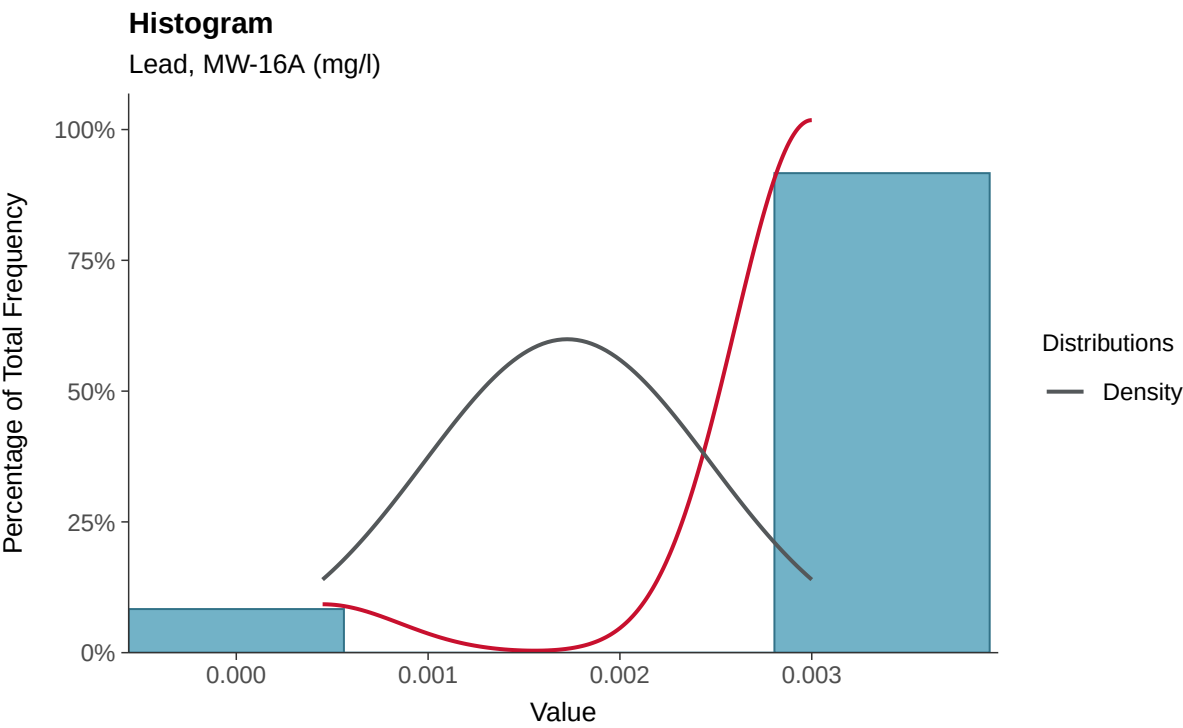
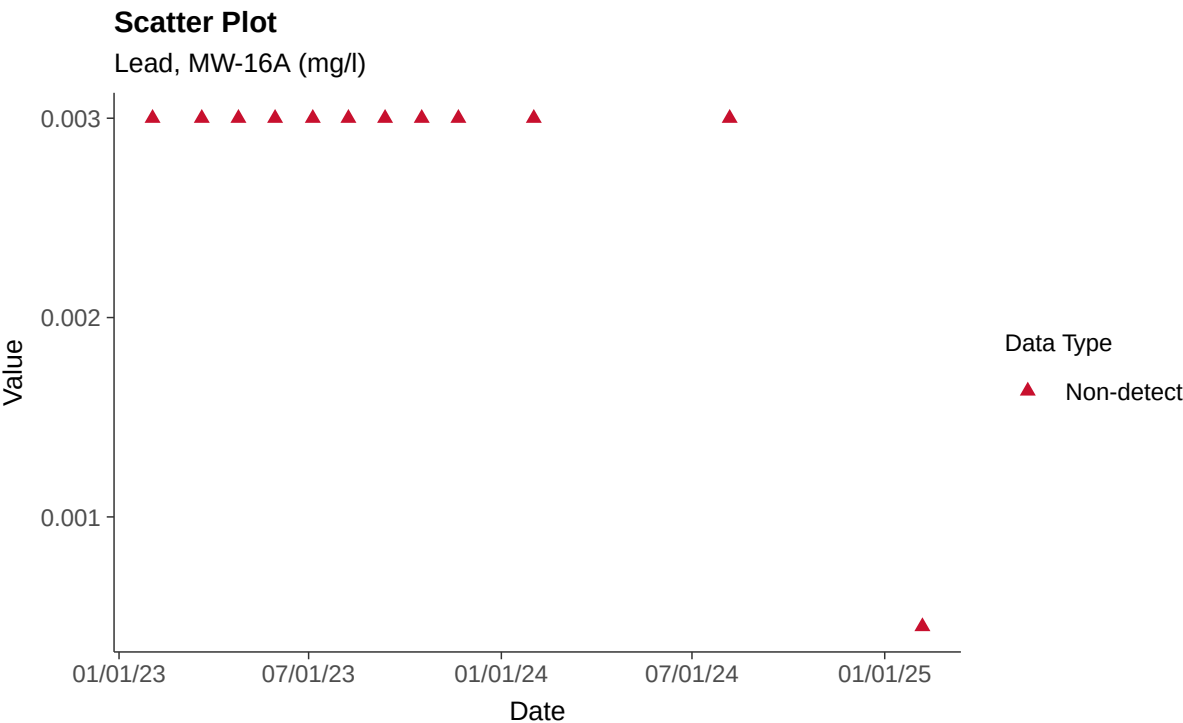


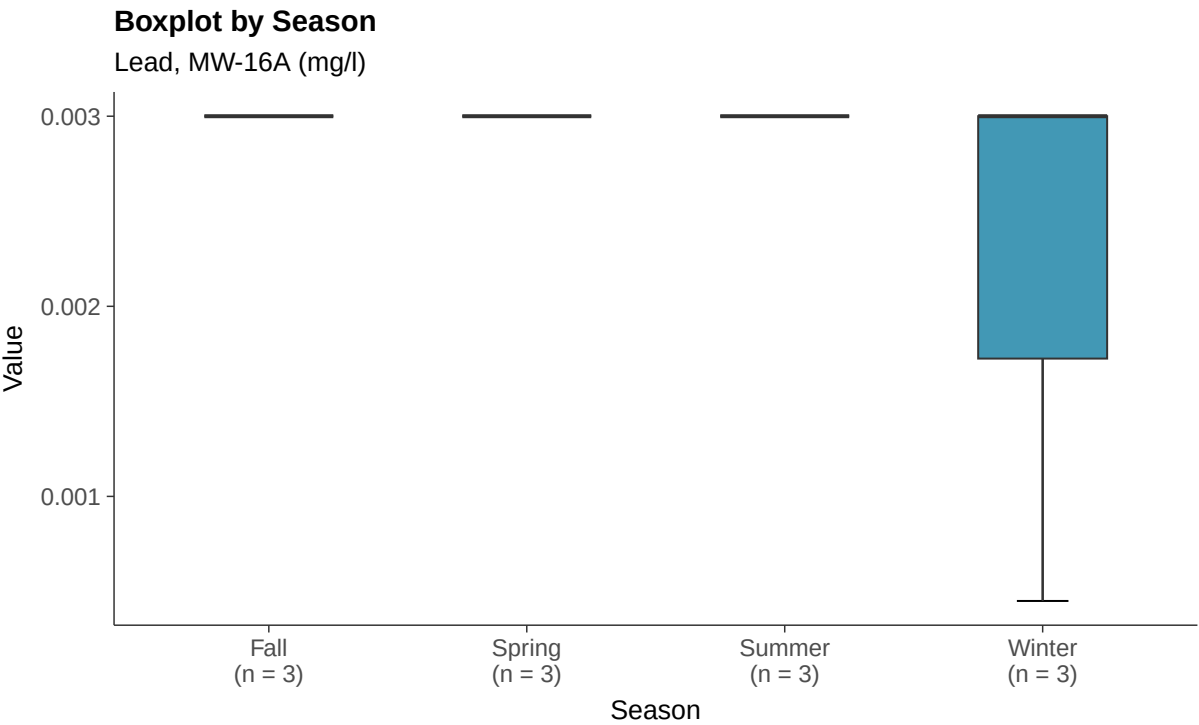
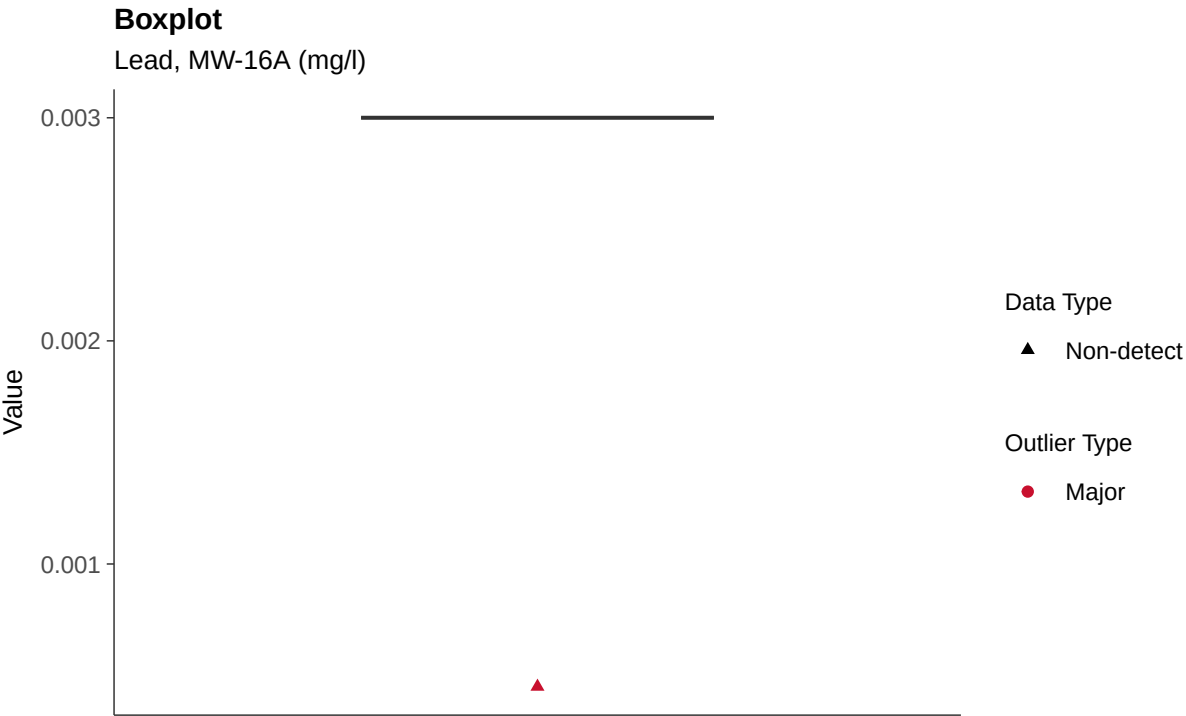




Appendix IV: Lead, MW-16A

ID: 23_3_115

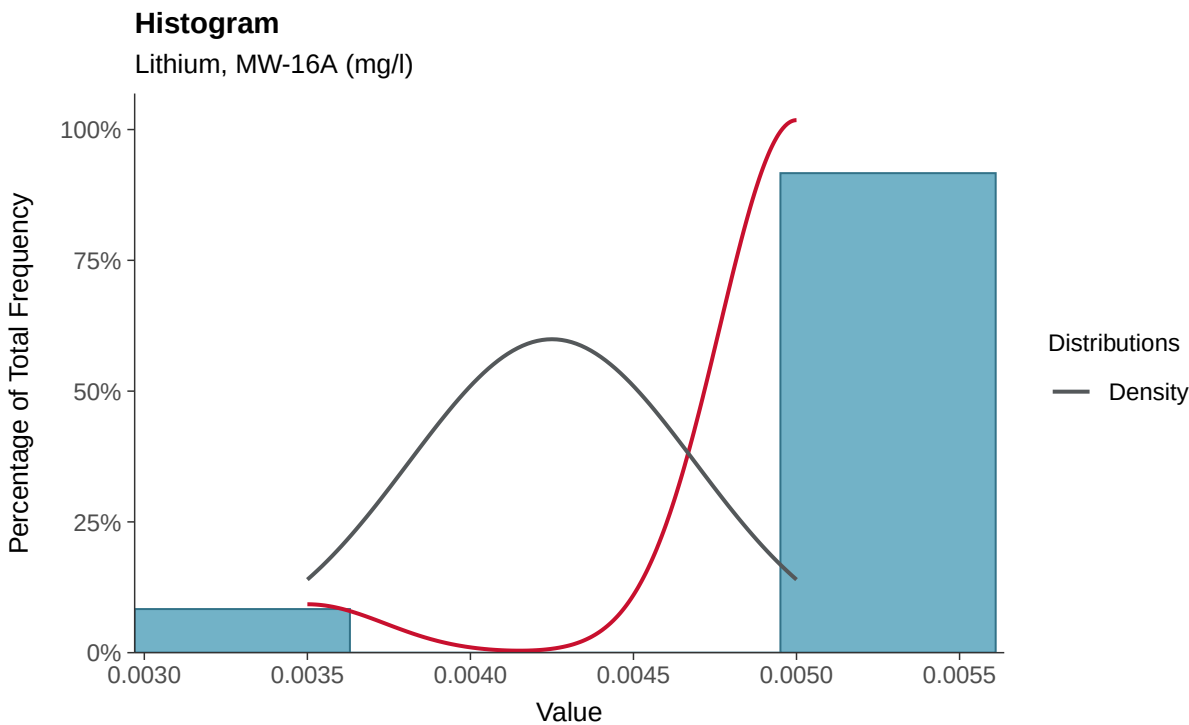
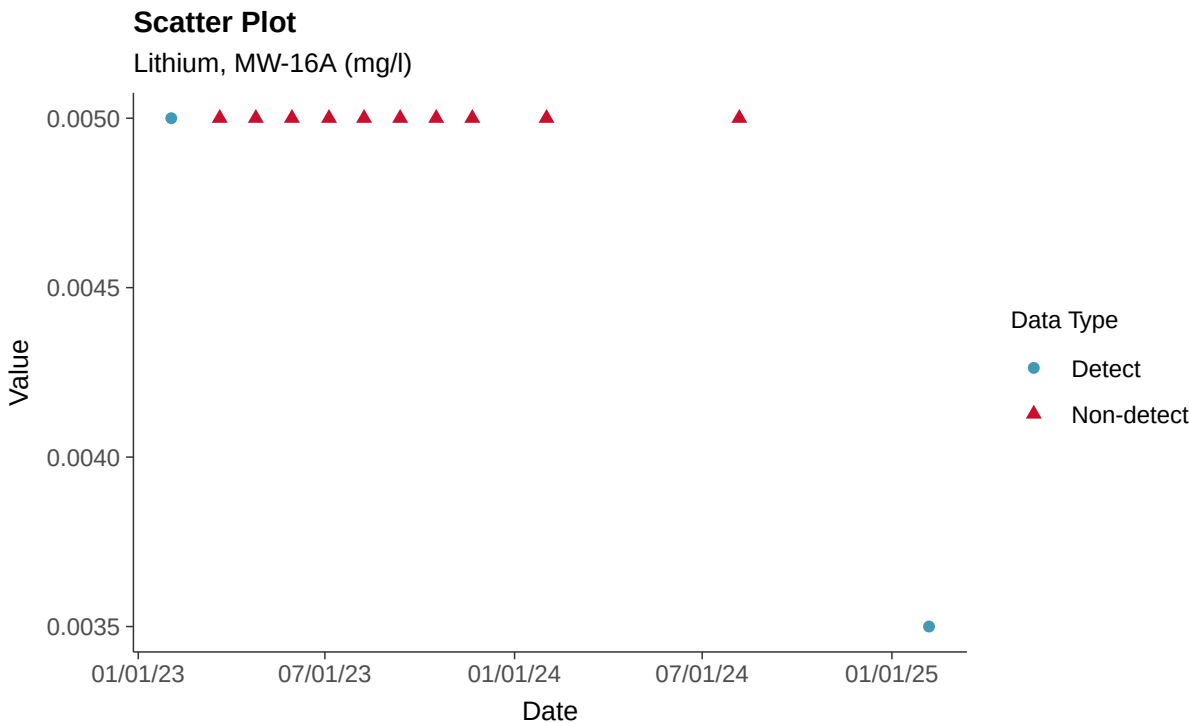


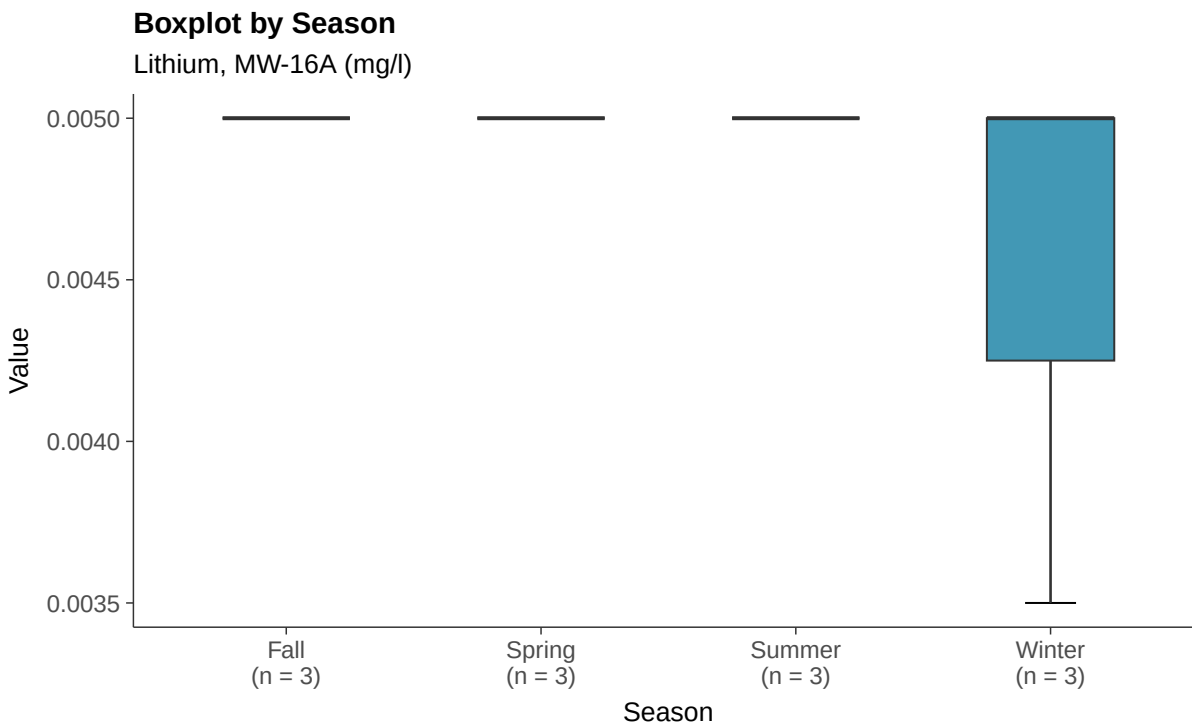
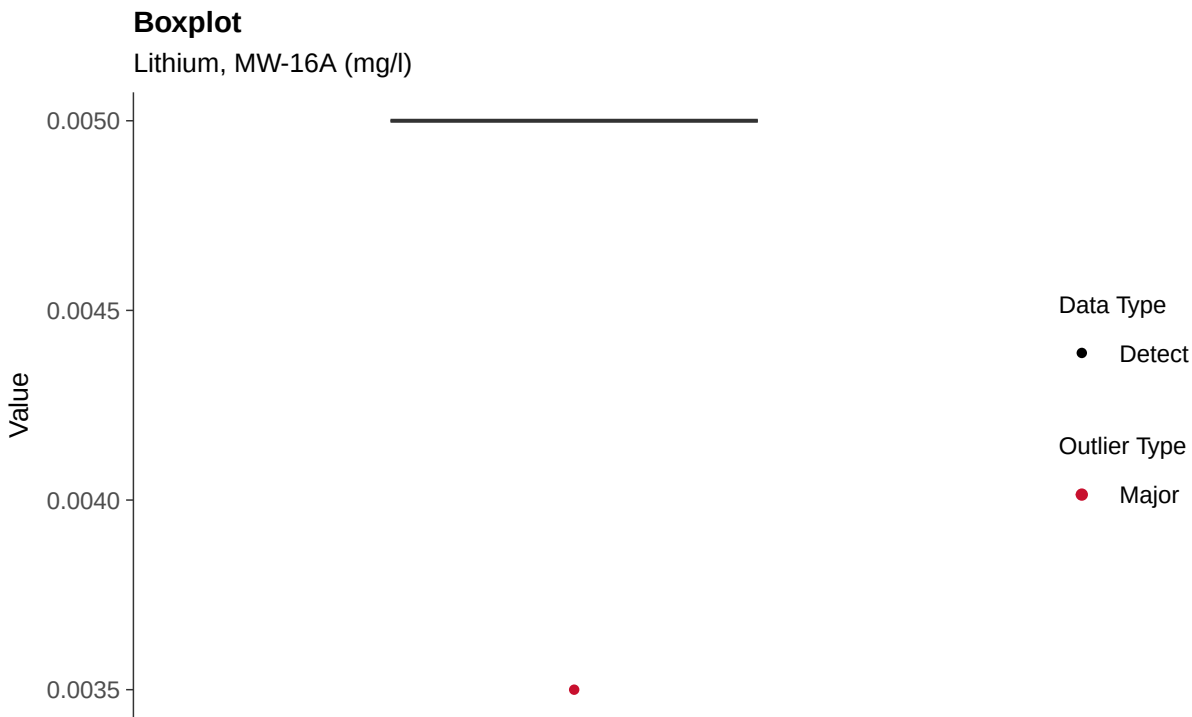


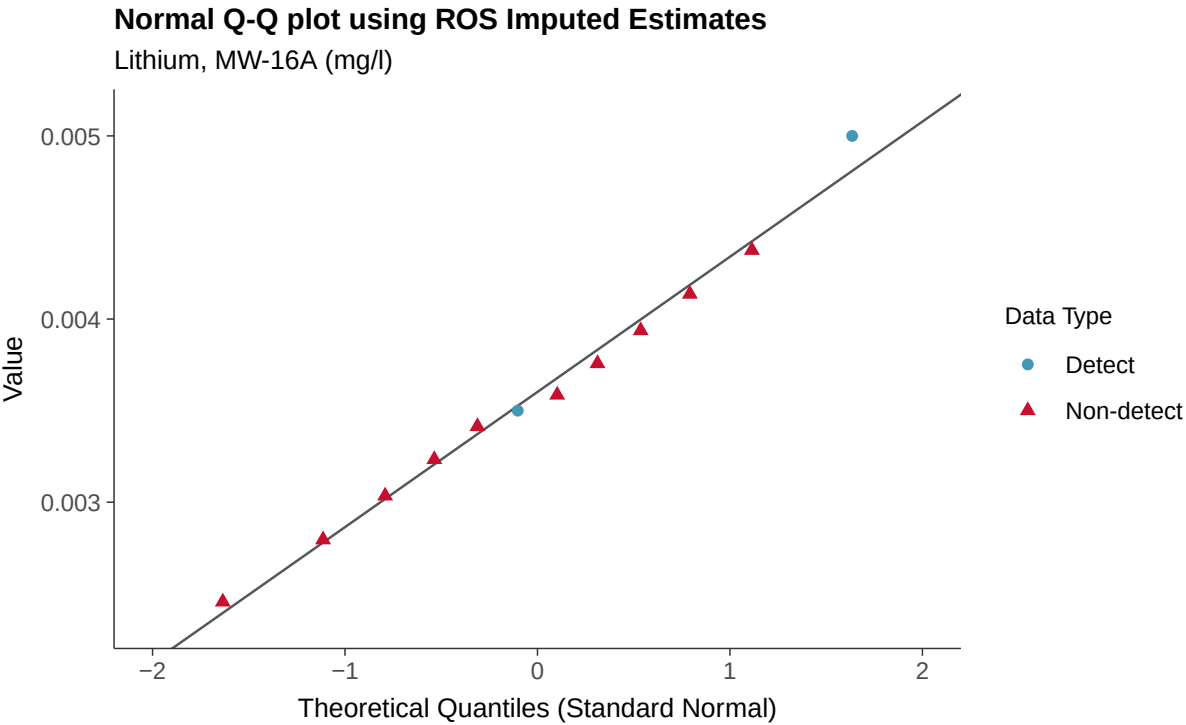


Appendix IV: Lithium, MW-16A

ID: 23_3_116



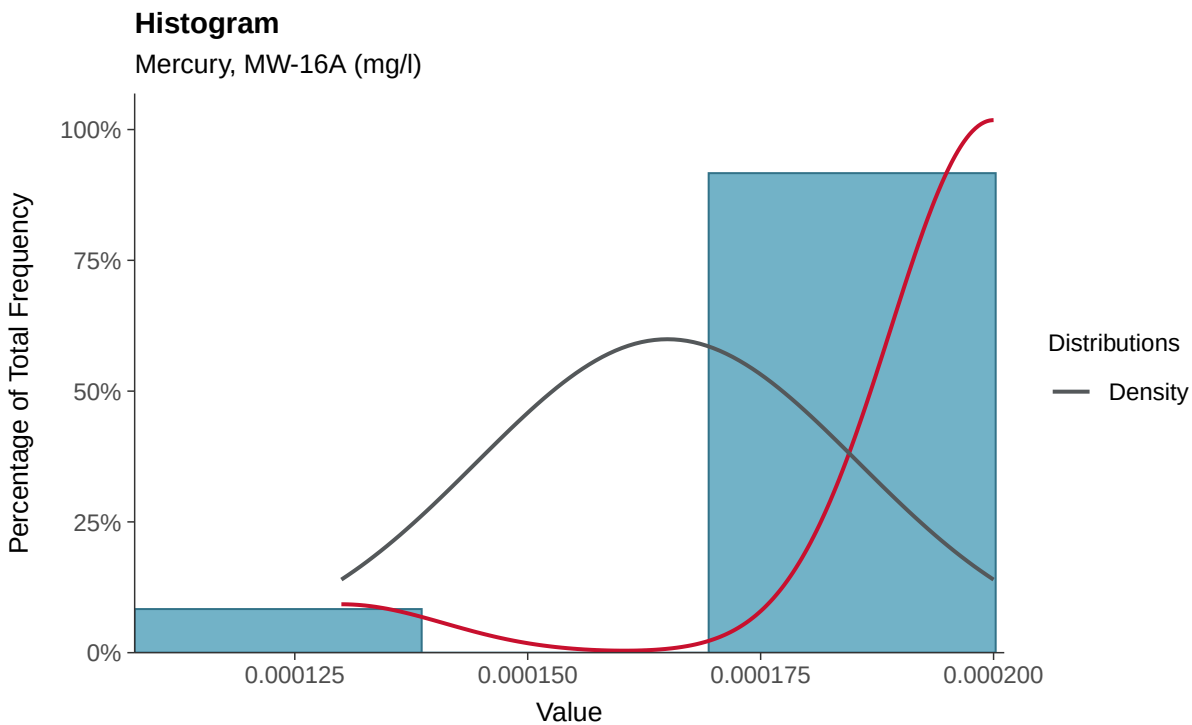
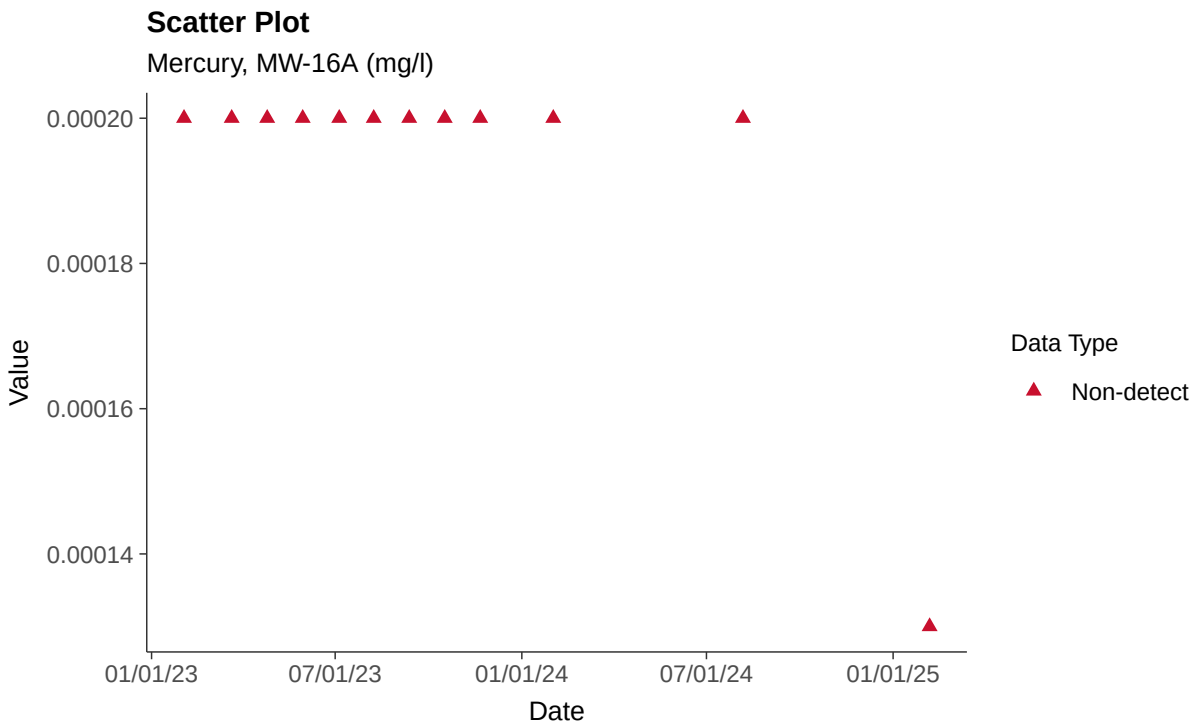


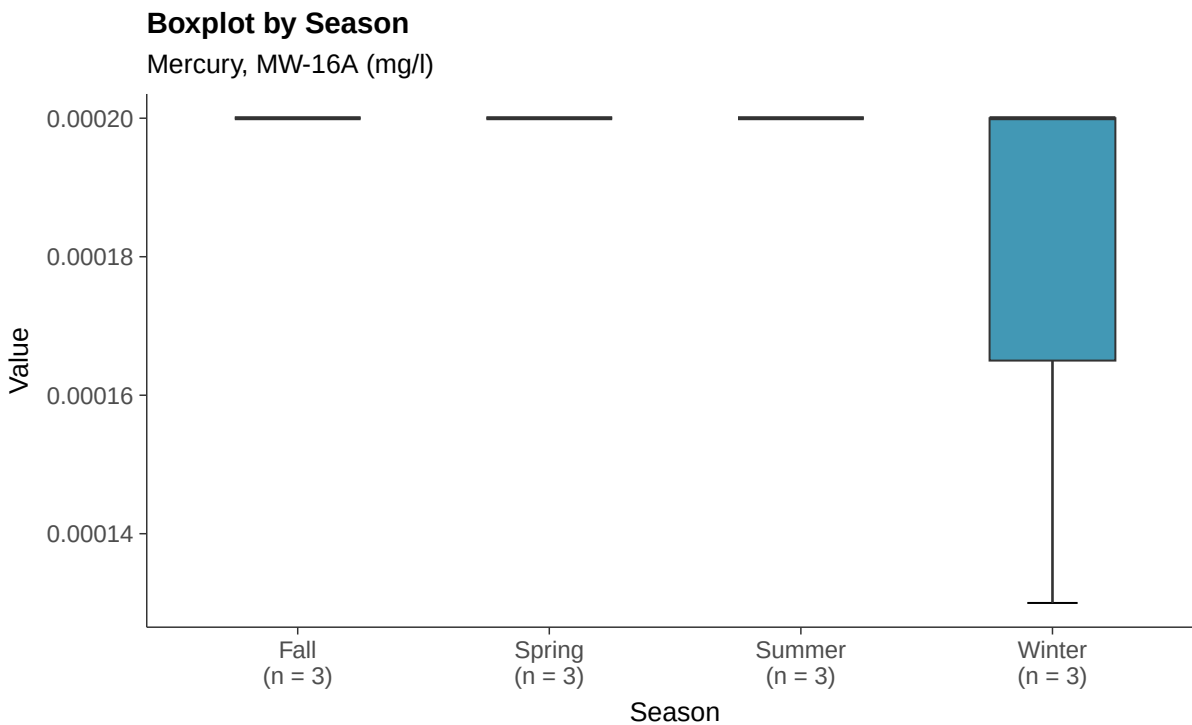
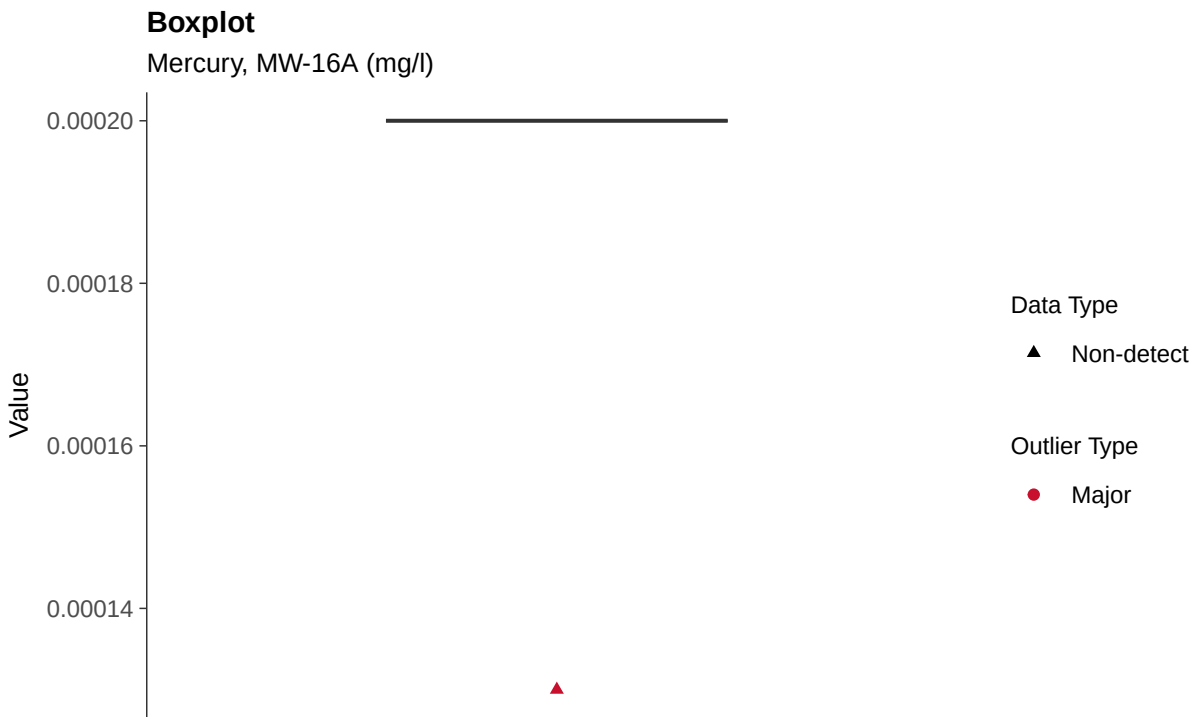




Appendix IV: Mercury, MW-16A

ID: 23_3_117

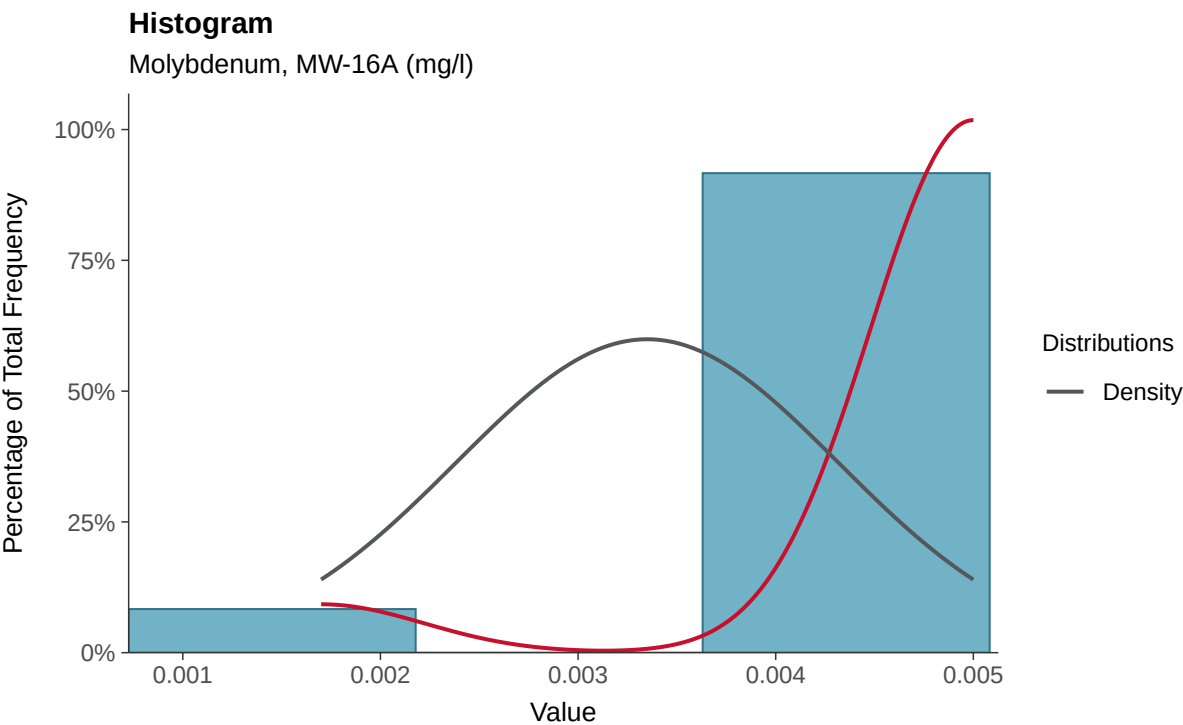
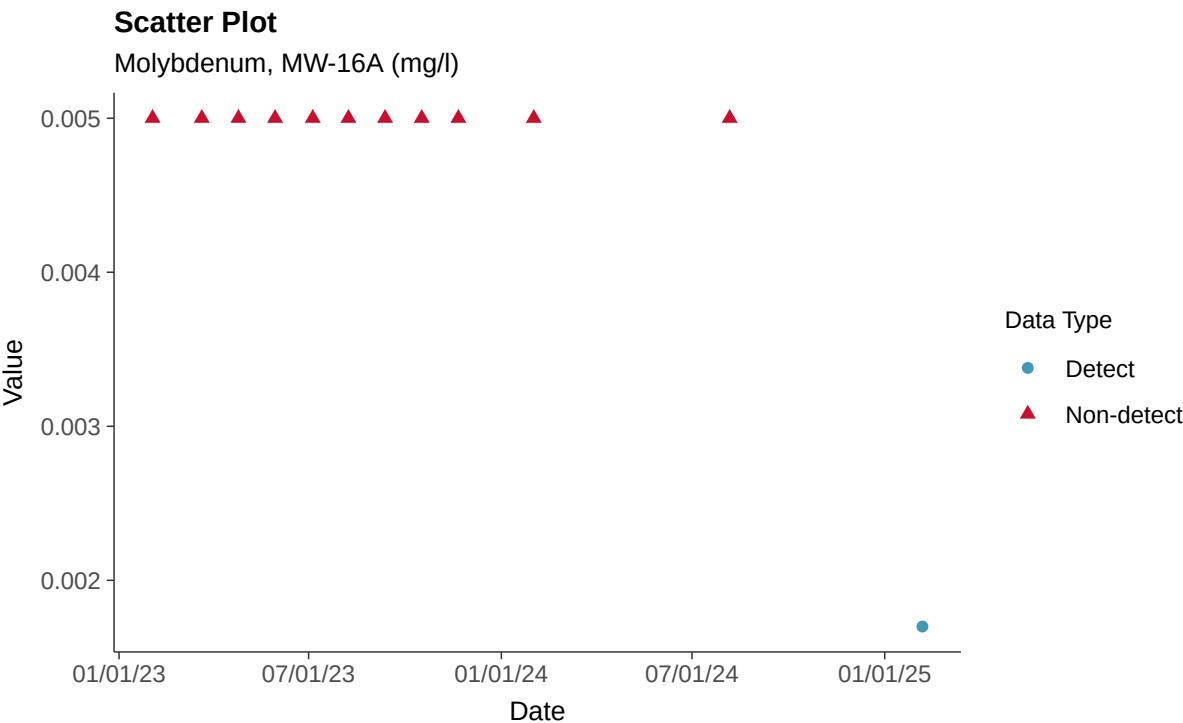


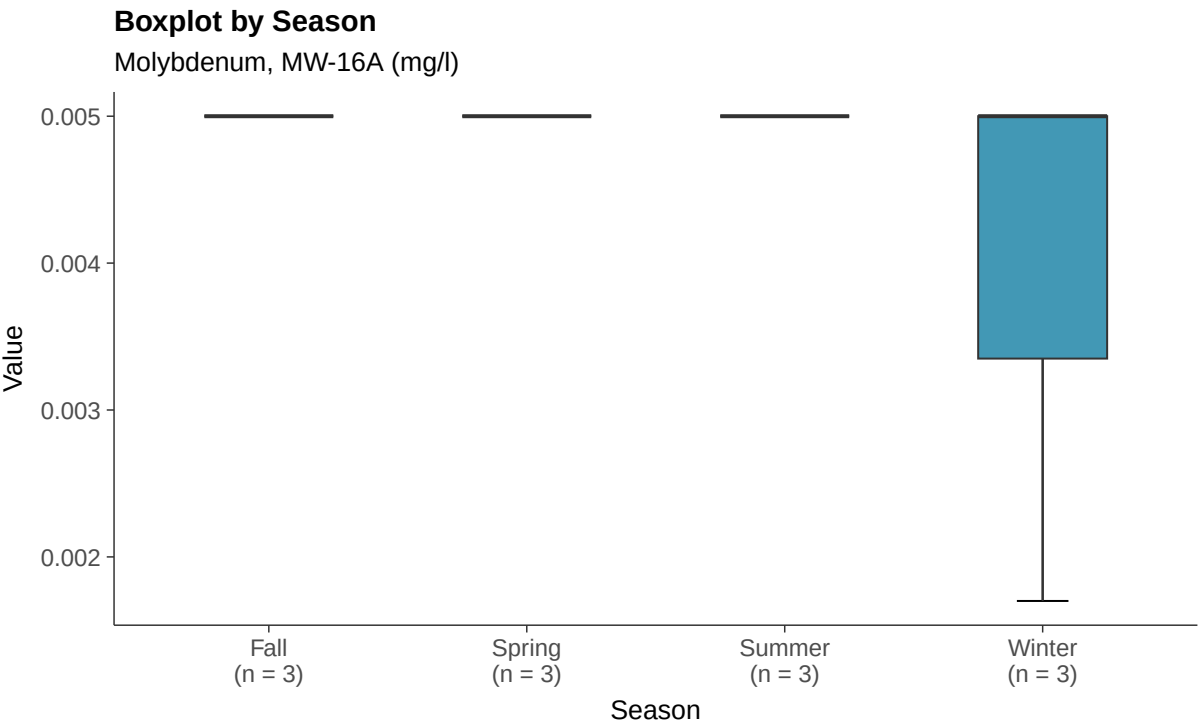
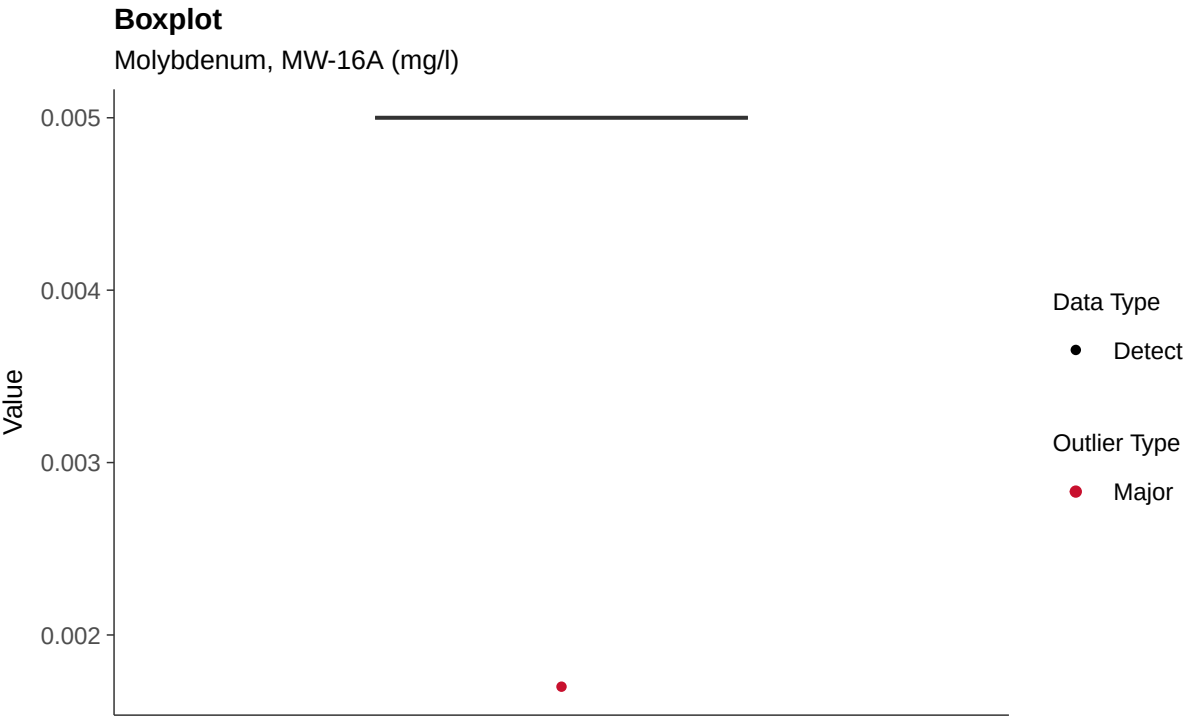




Appendix IV: Molybdenum, MW-16A

ID: 23_3_118

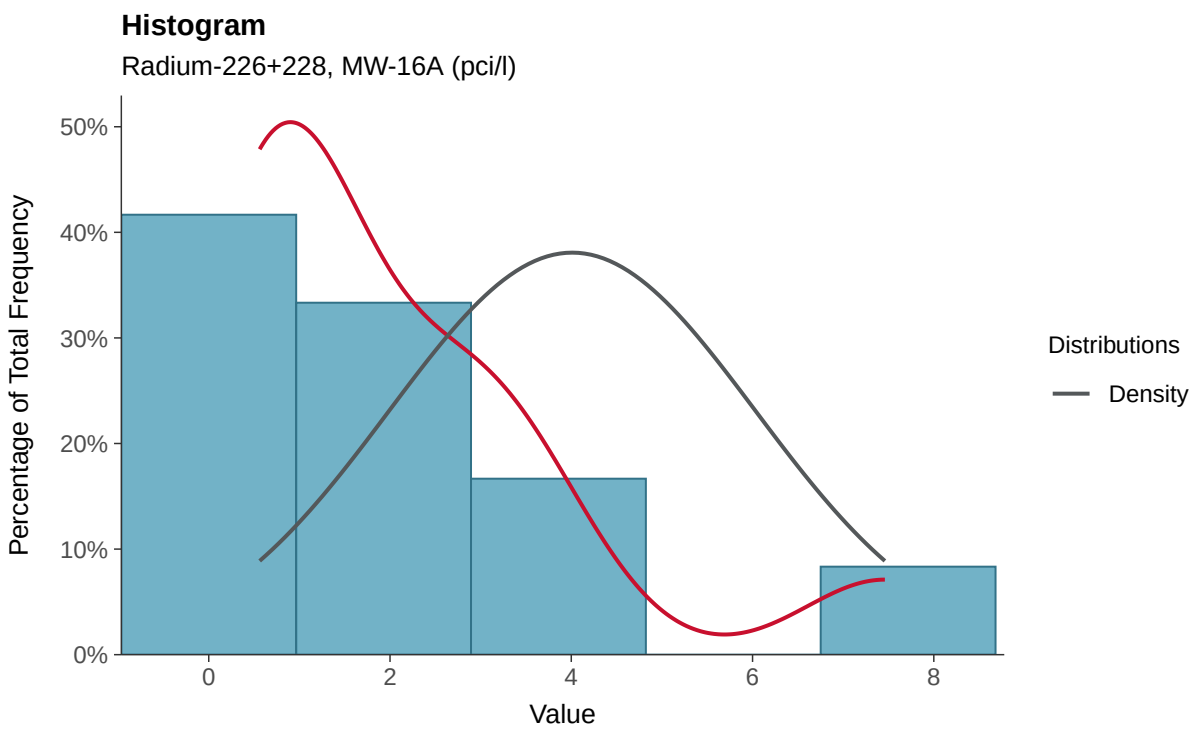
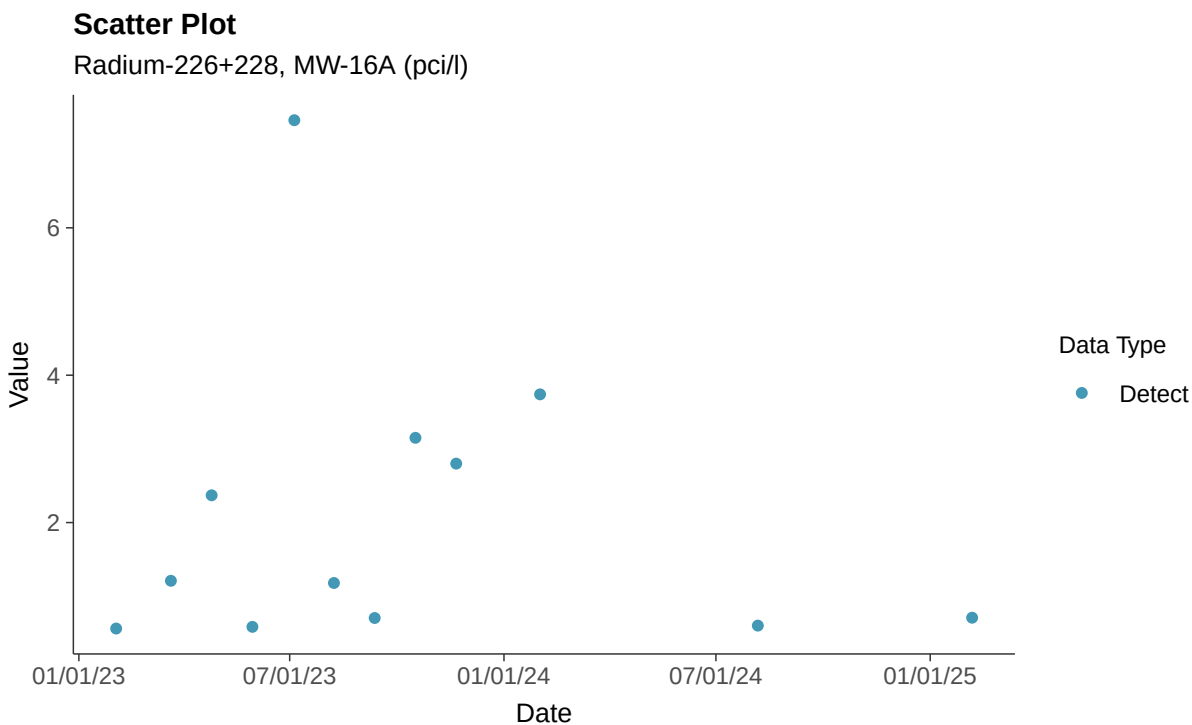






Appendix IV: Radium-226+228, MW-16A

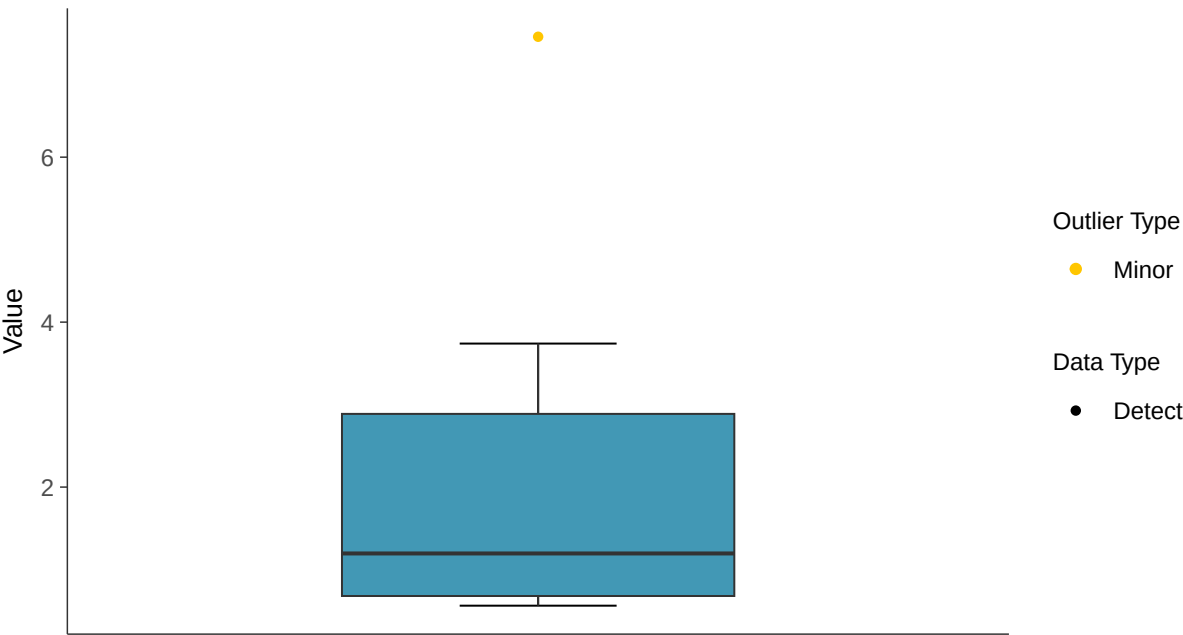
ID: 23_3_121





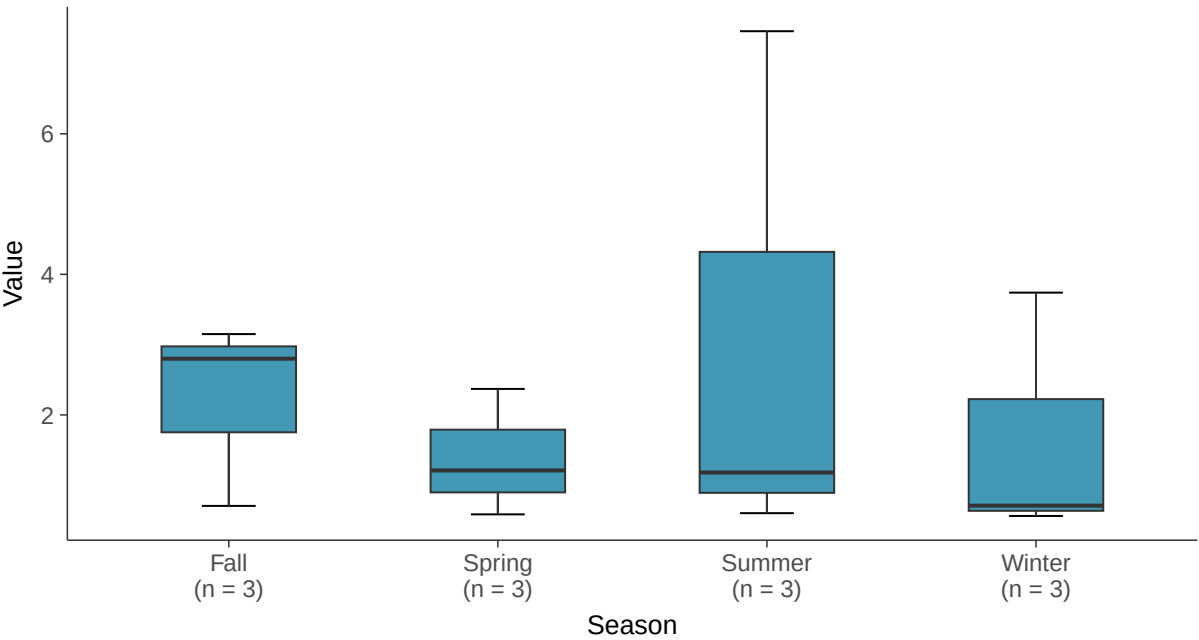
Boxplot

Radium-226+228, MW-16A (pci/l)



Boxplot by Season

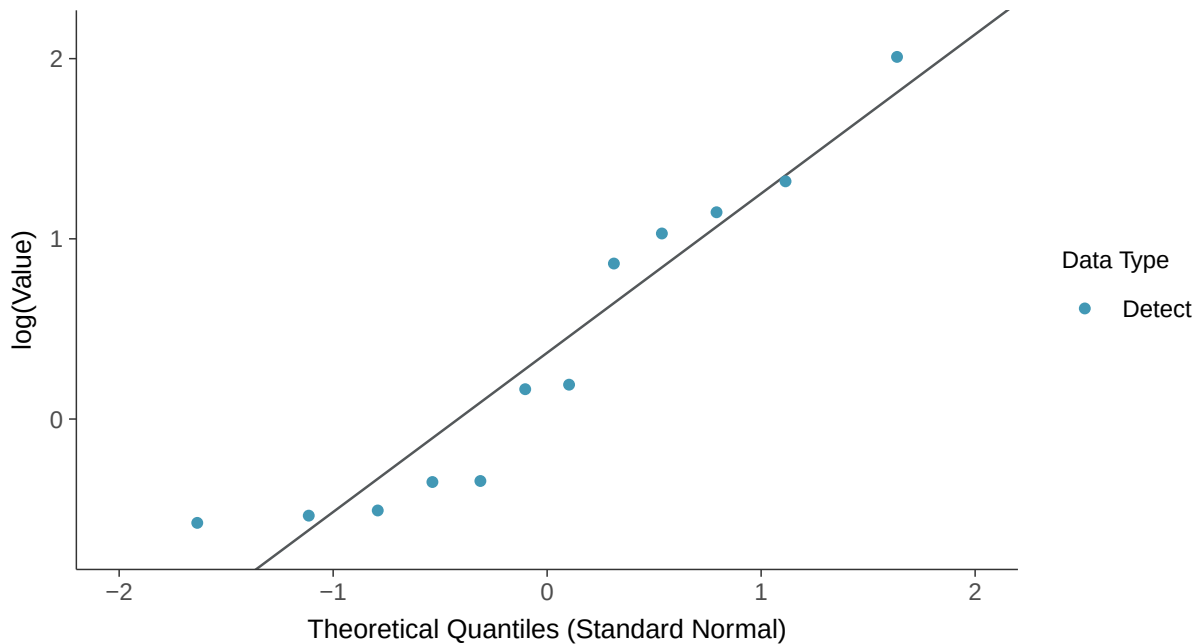
Radium-226+228, MW-16A (pci/l)





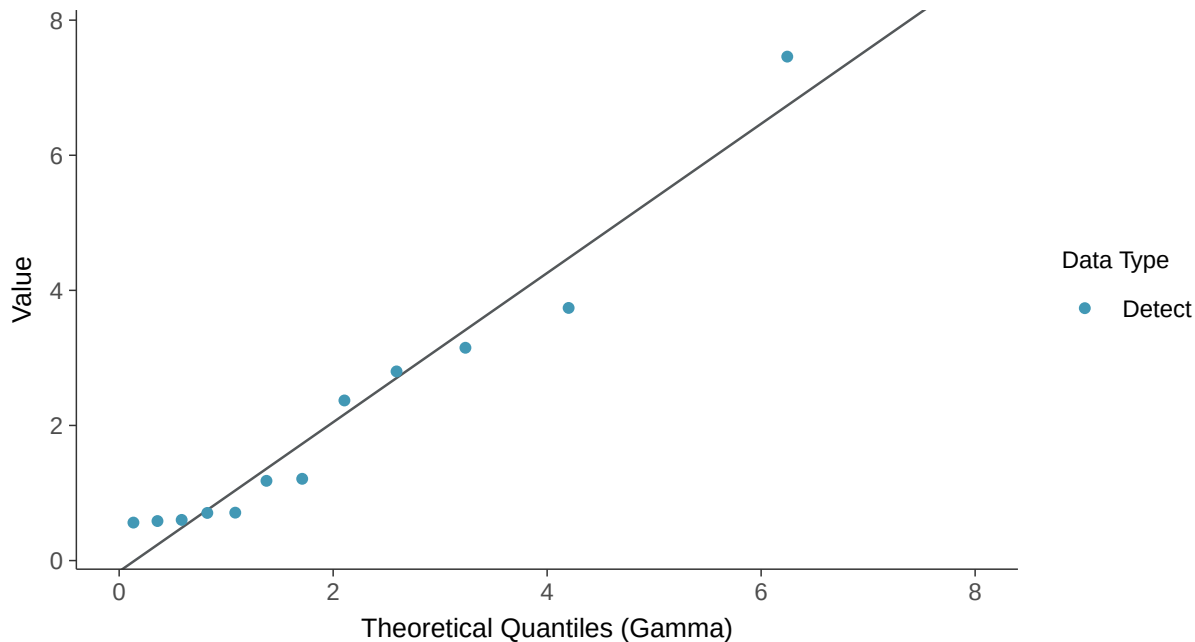
Lognormal Q-Q plot

Radium-226+228, MW-16A (pci/l)



Gamma Q-Q plot

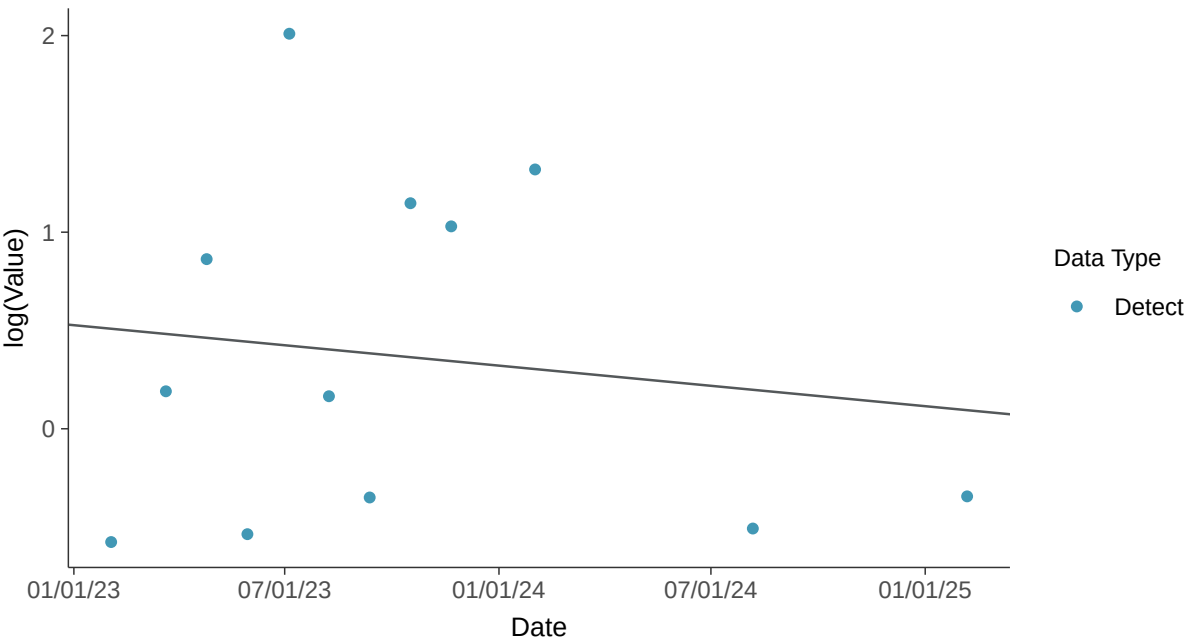
Radium-226+228, MW-16A (pci/l)





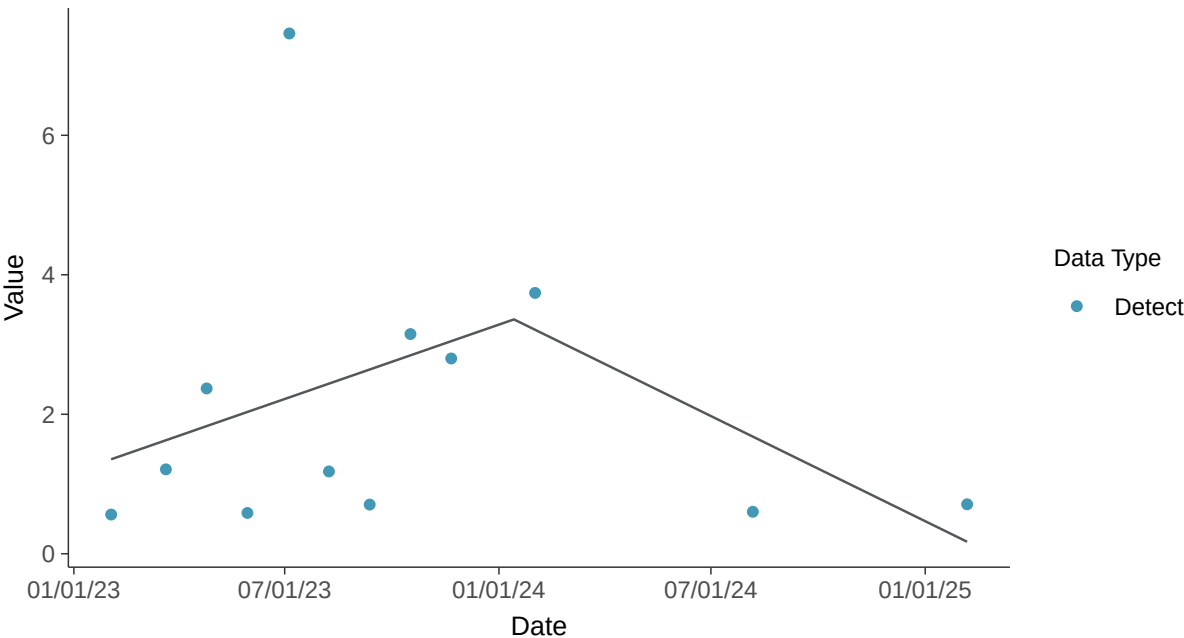
Trend Regression: Lognormal MLE

Radium-226+228, MW-16A (pci/l)



Trend Regression: Piecewise Linear-Linear

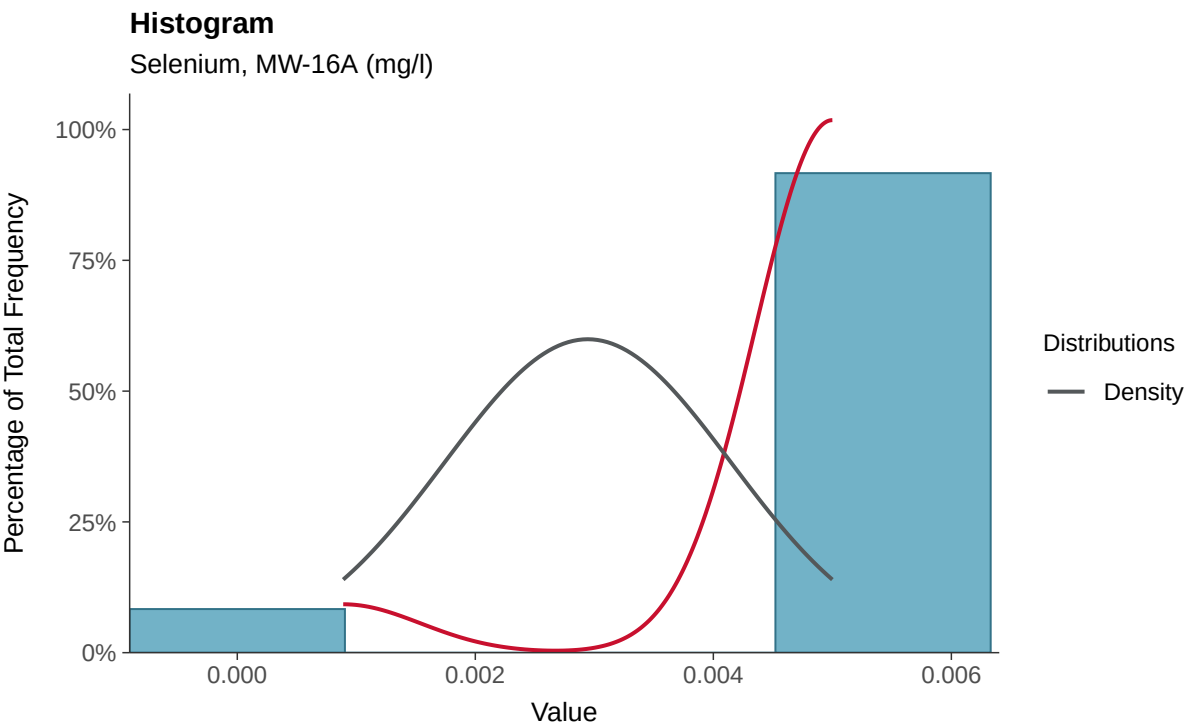
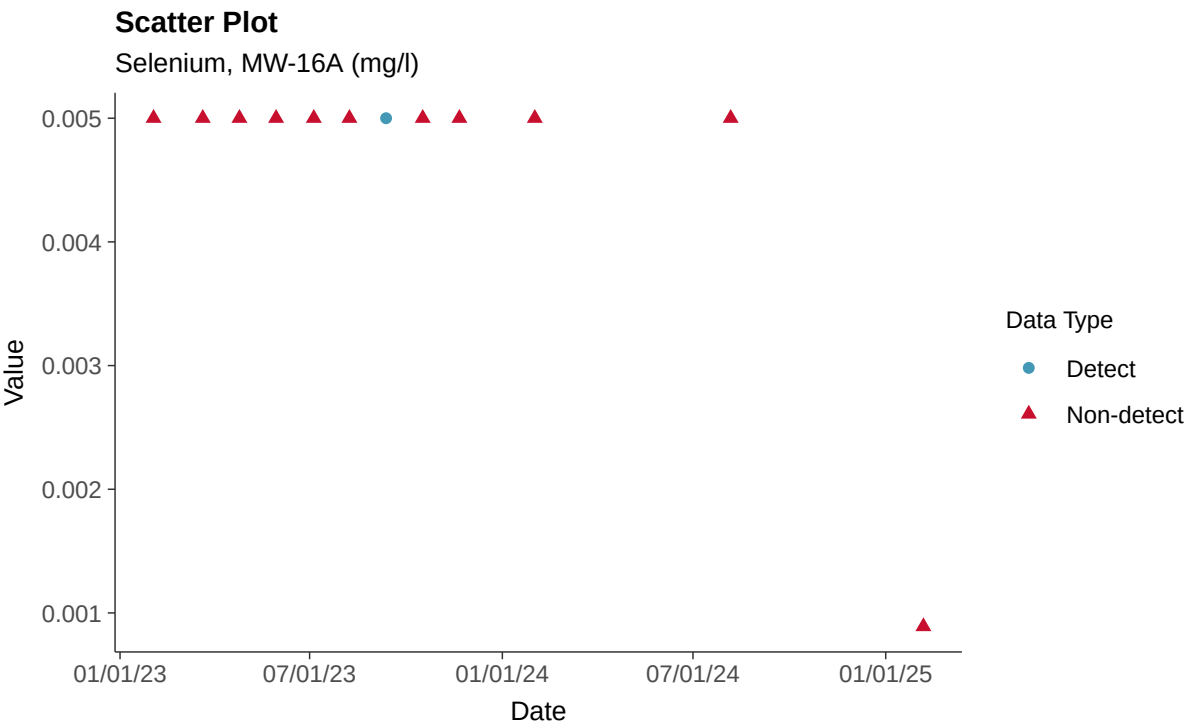
Radium-226+228, MW-16A (pci/l)

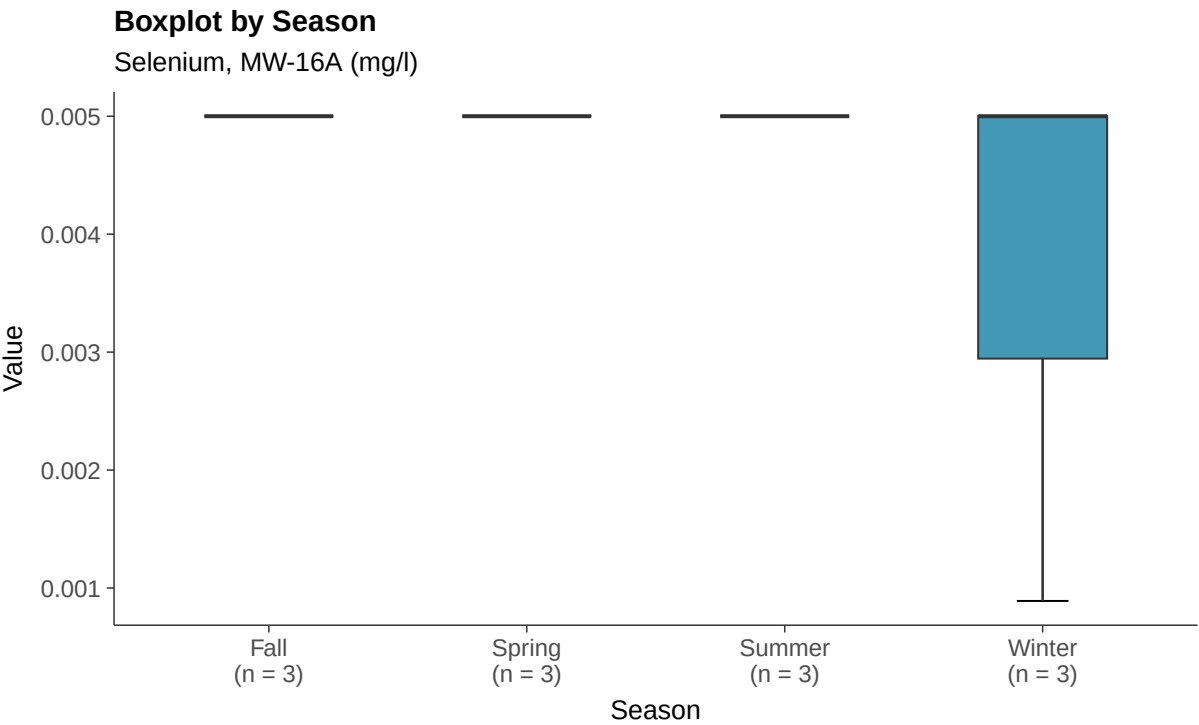
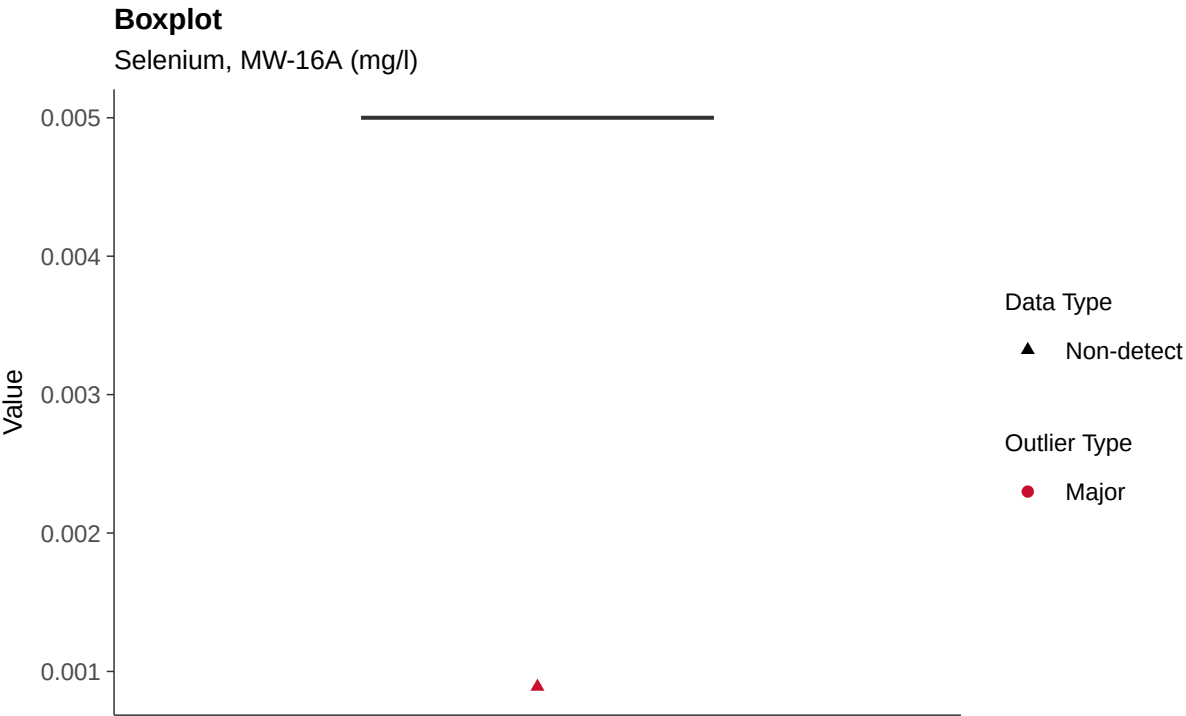




Appendix IV: Selenium, MW-16A

ID: 23_3_122

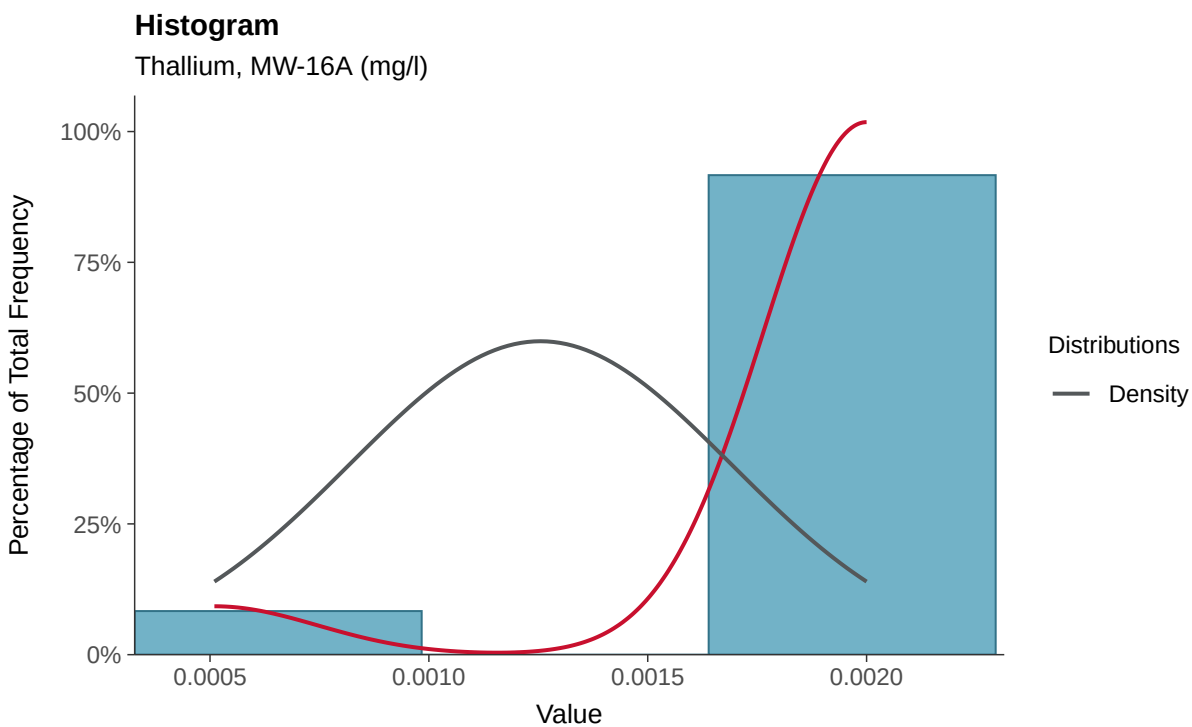
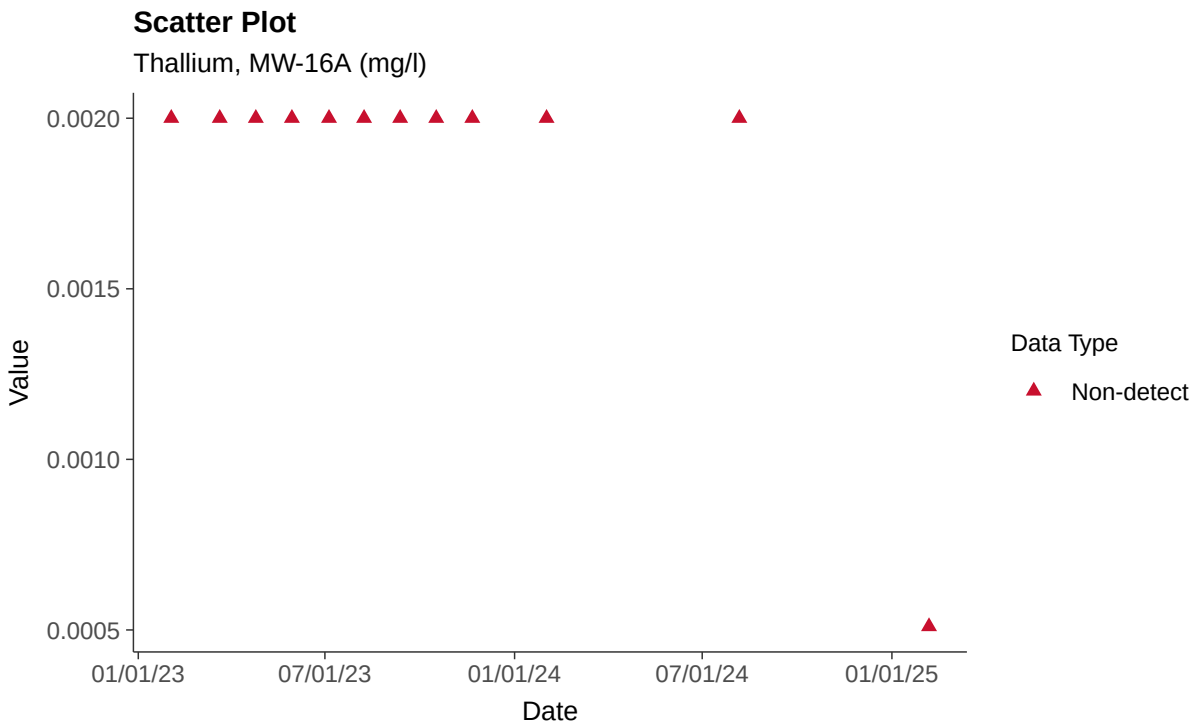


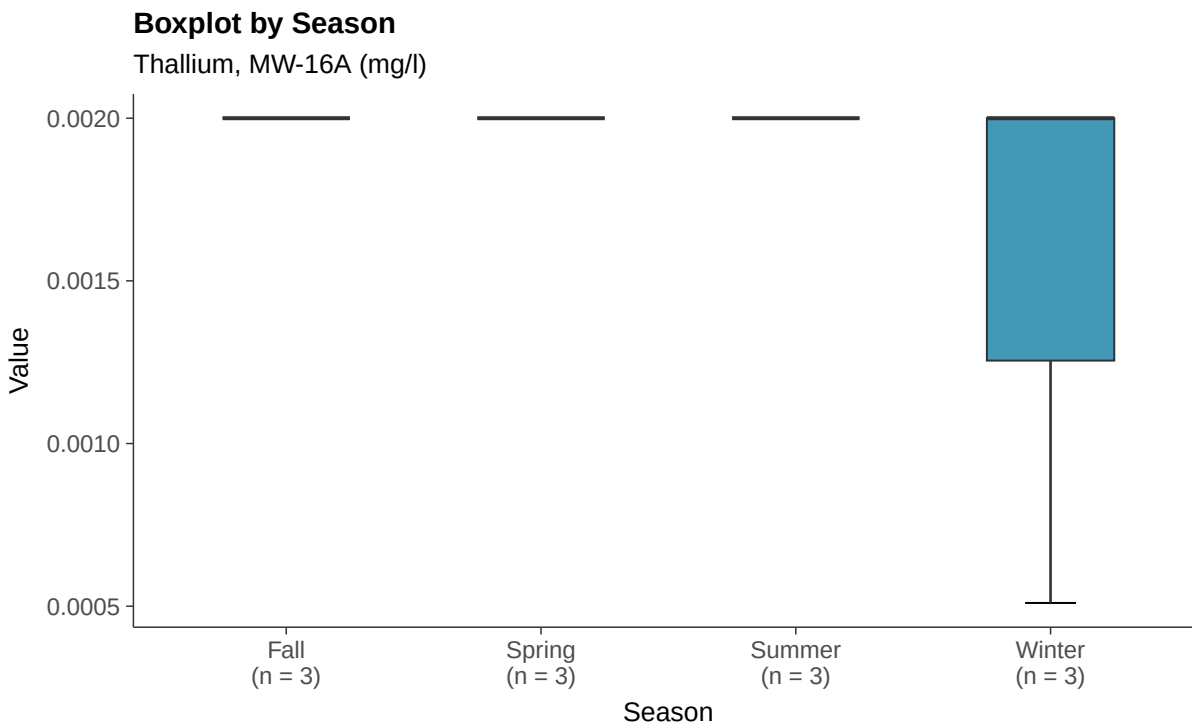
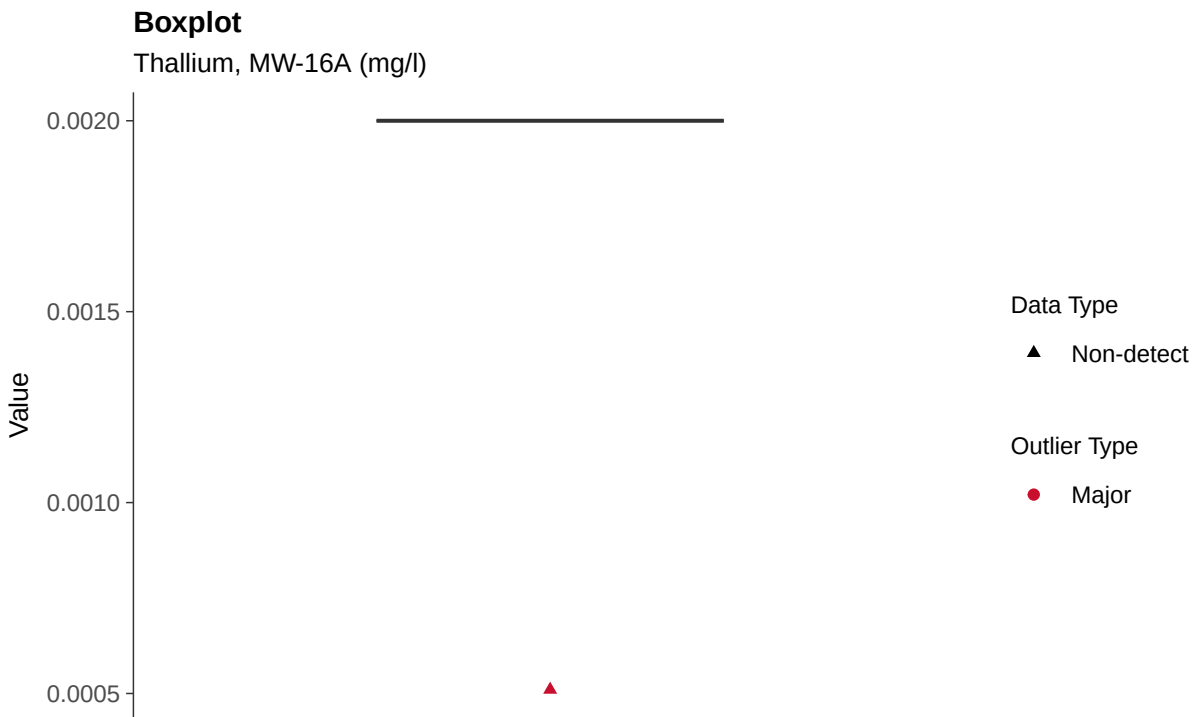




Appendix IV: Thallium, MW-16A

ID: 23_3_125

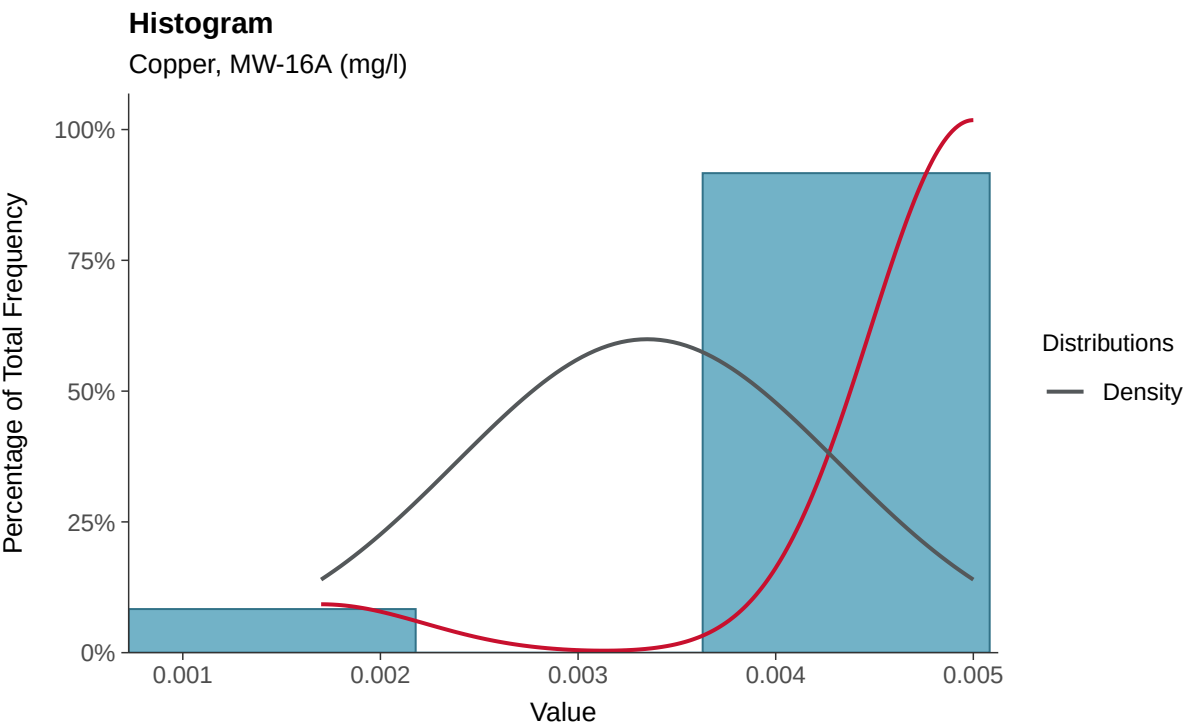
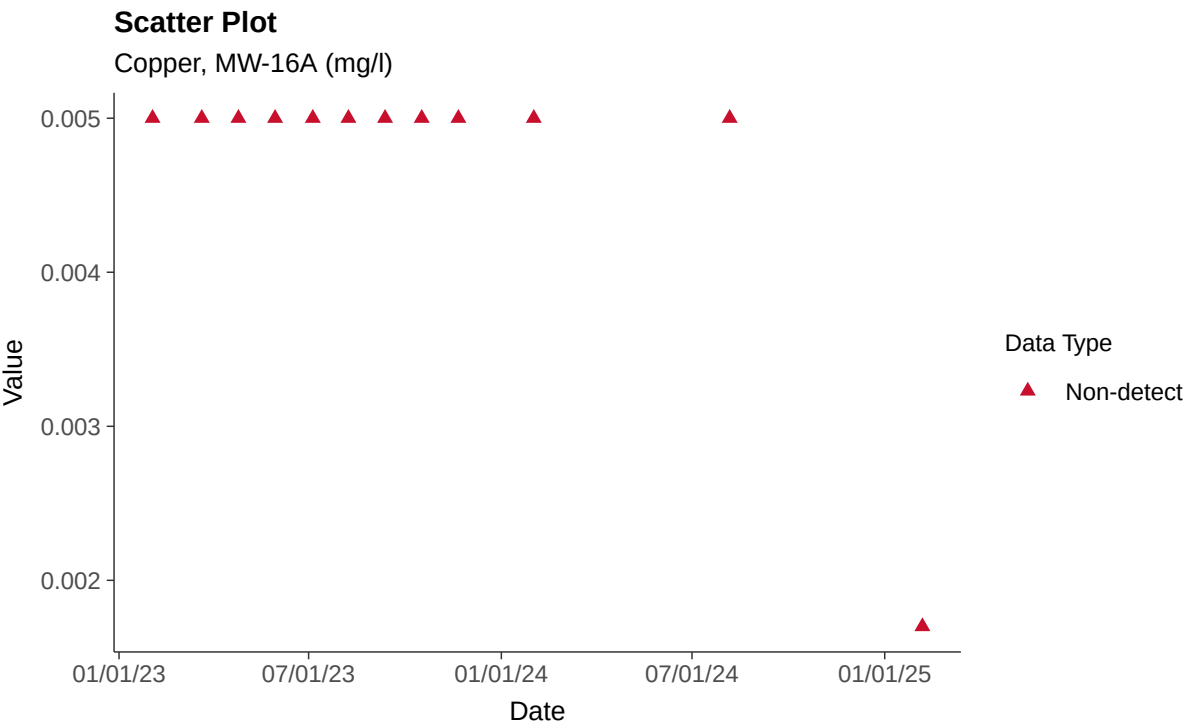


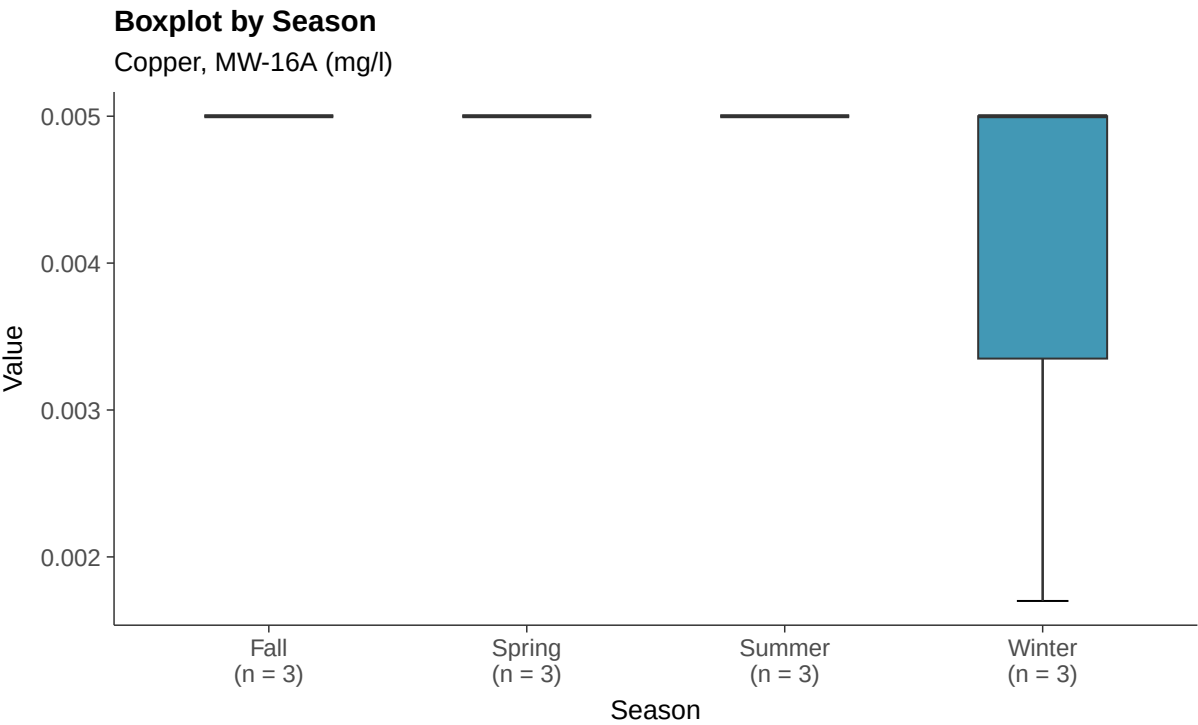
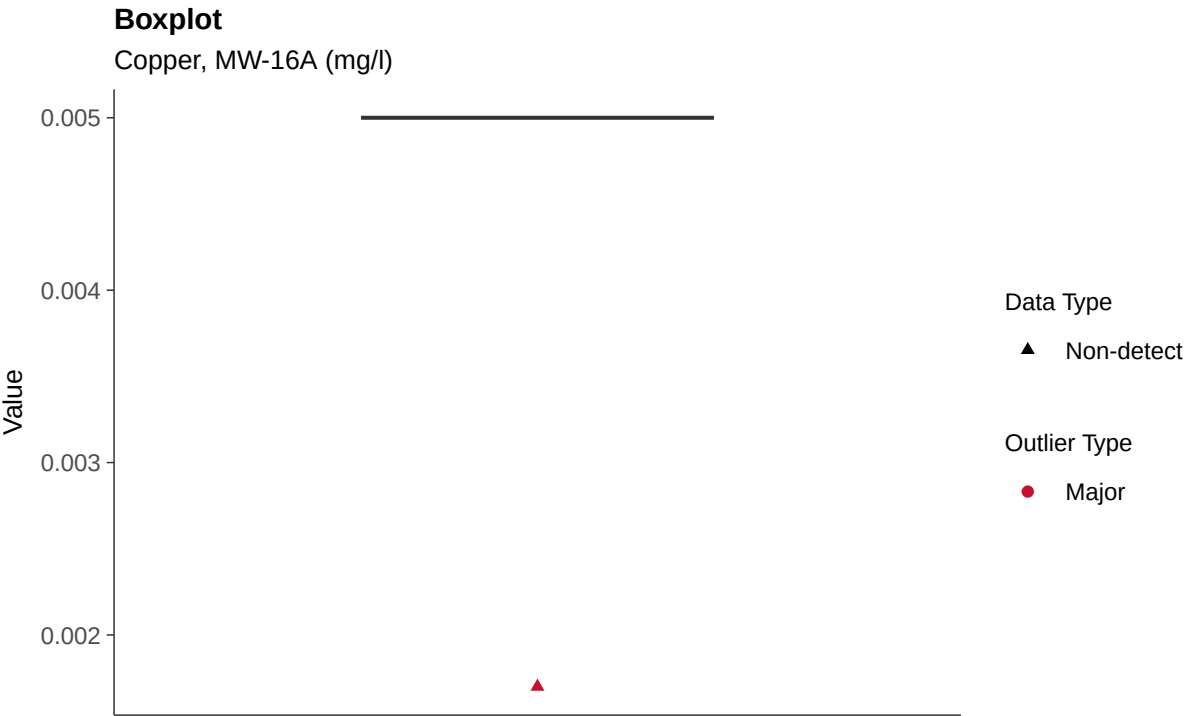




Part 115: Copper, MW-16A

ID: 23_5_111

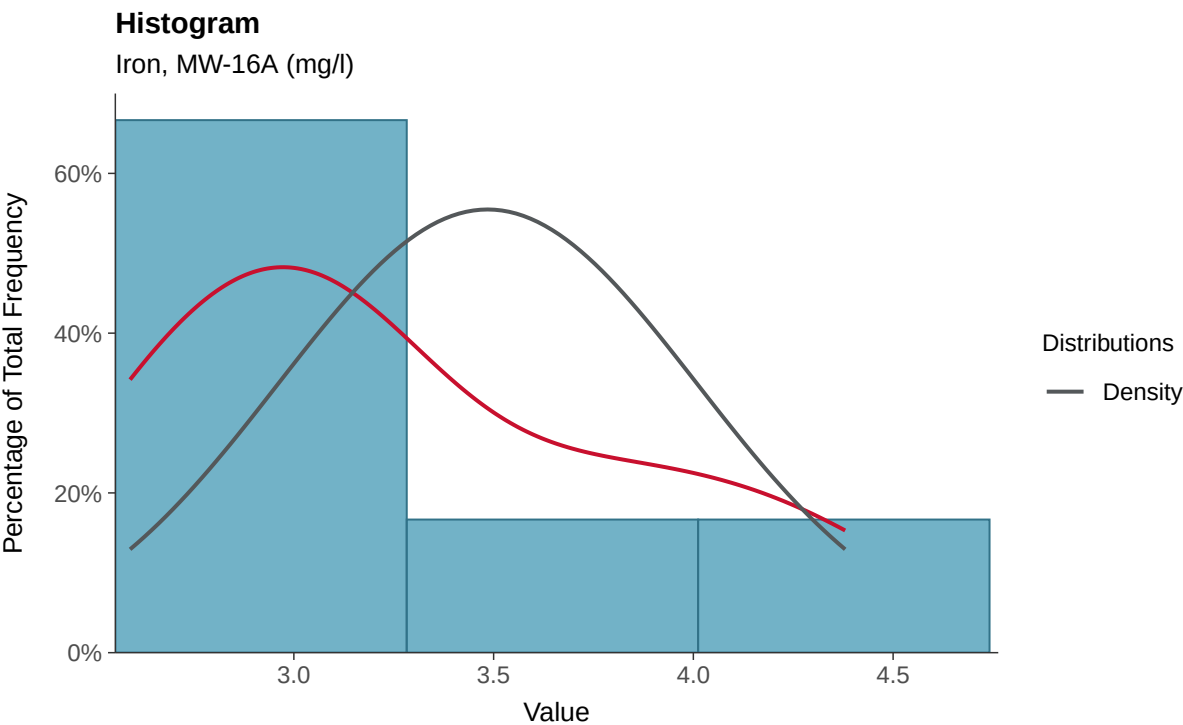
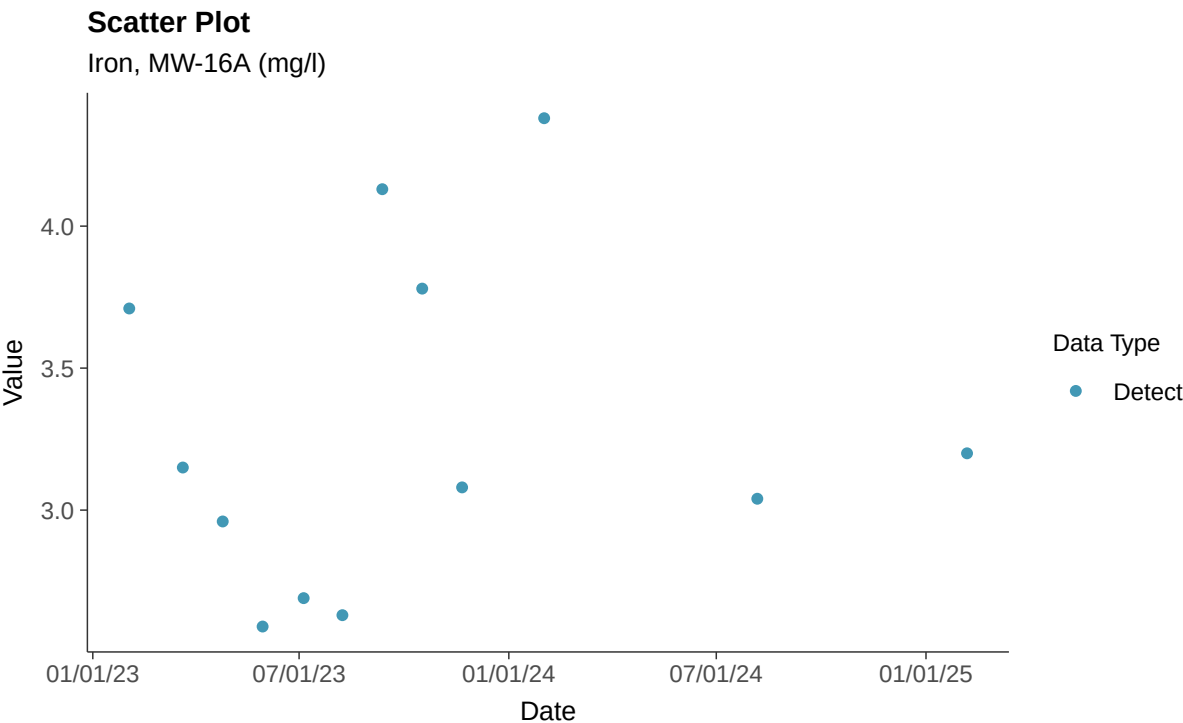


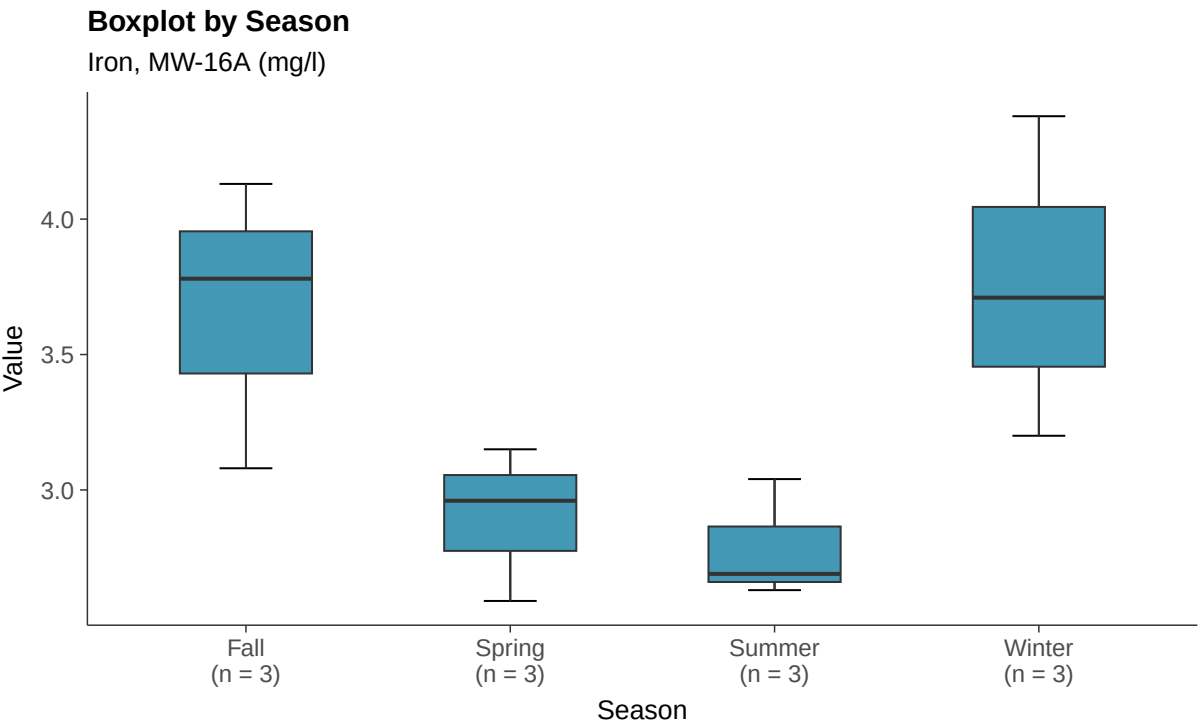
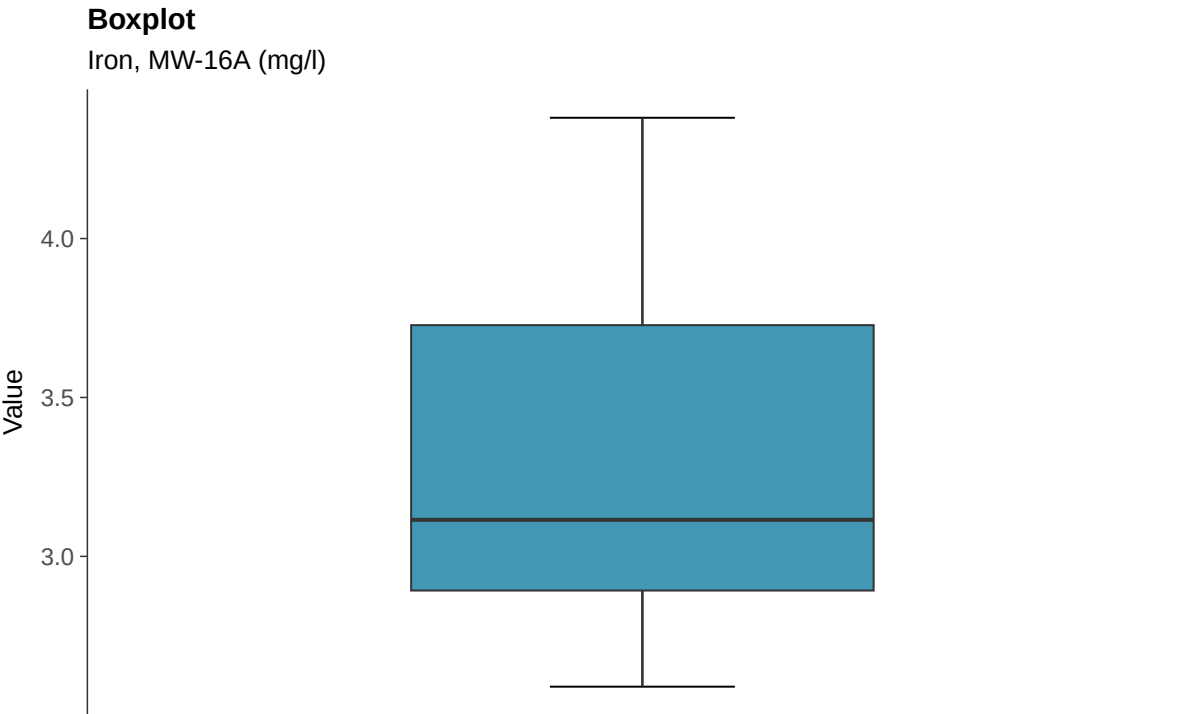


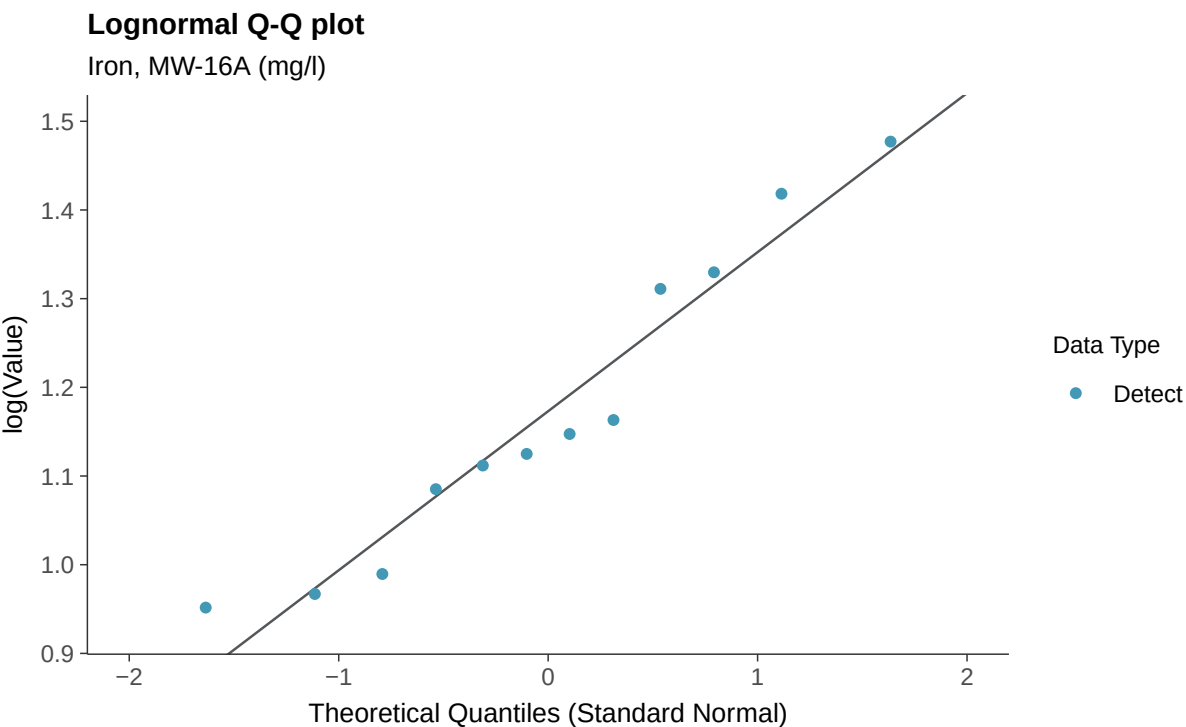
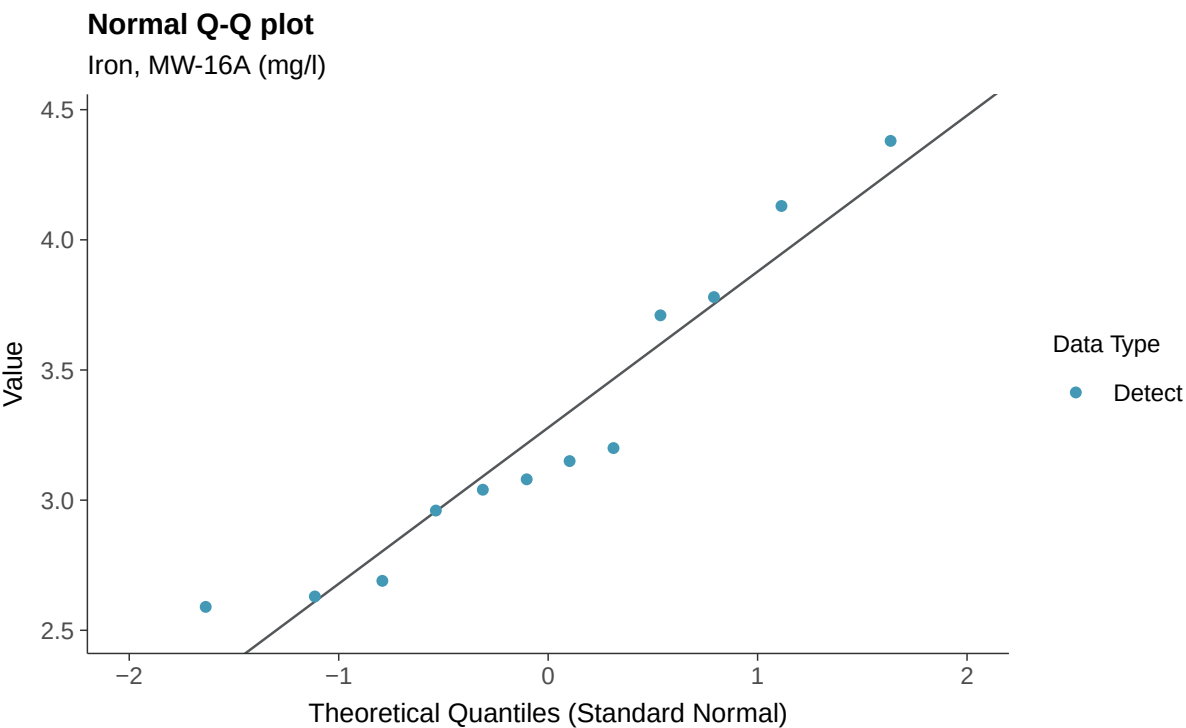


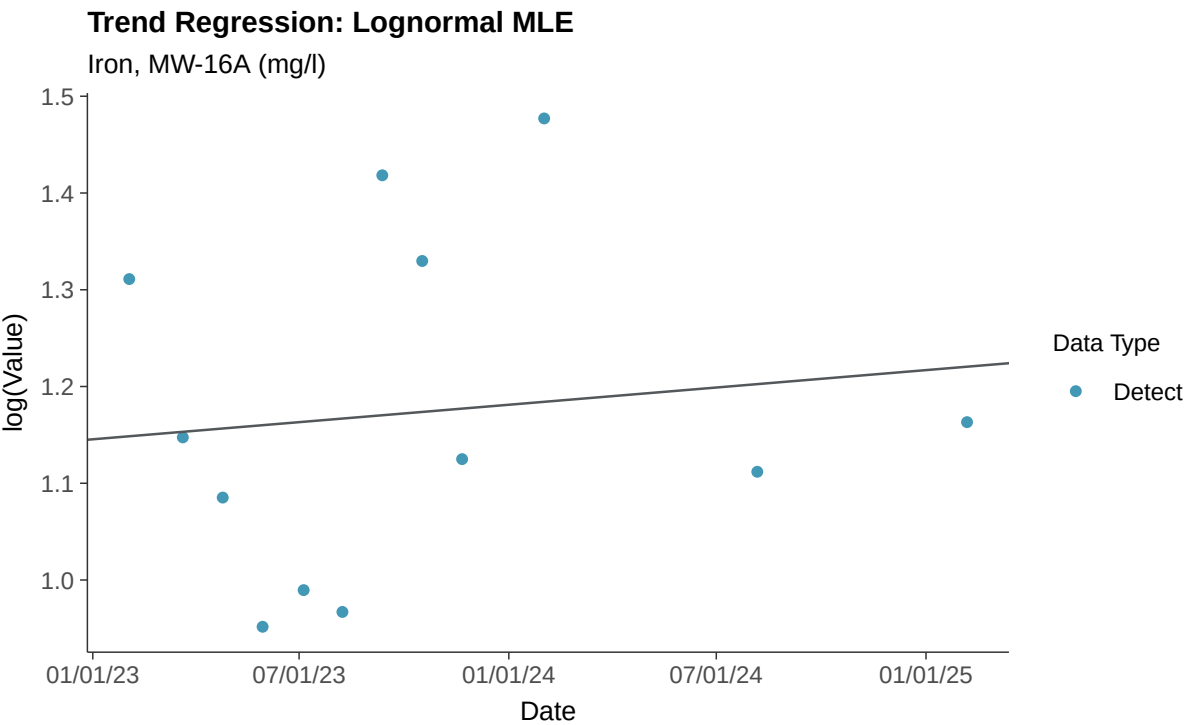
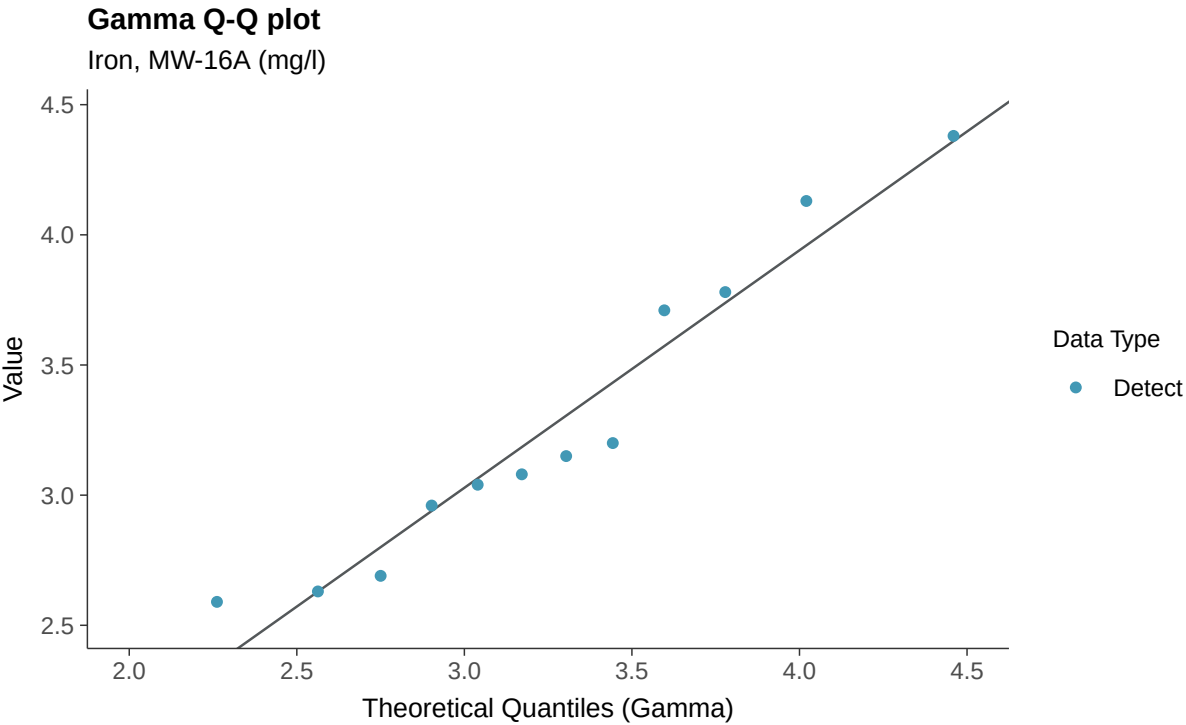
Part 115: Iron, MW-16A

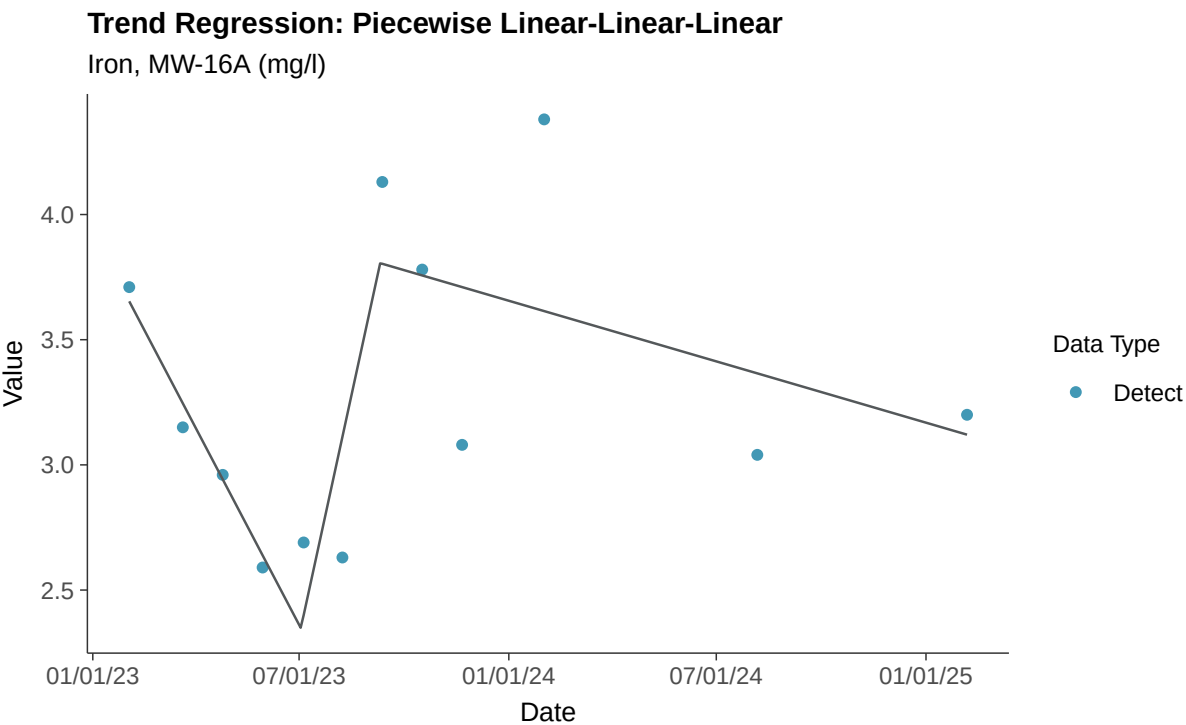
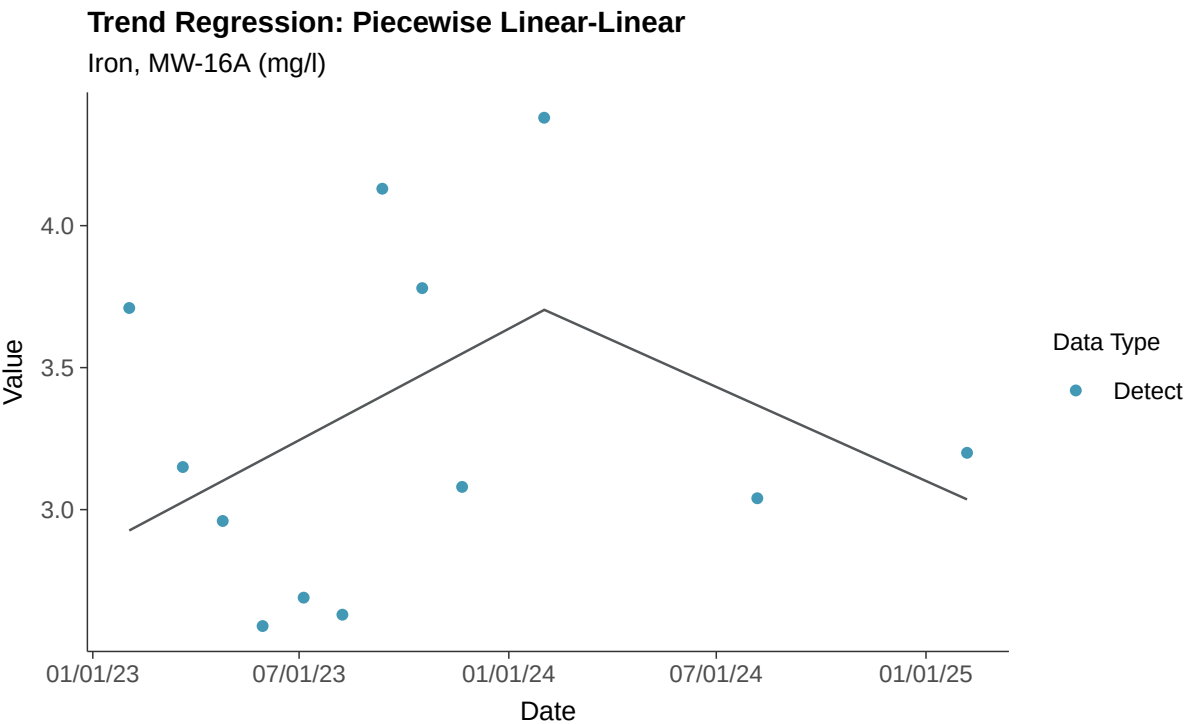
ID: 23_5_114







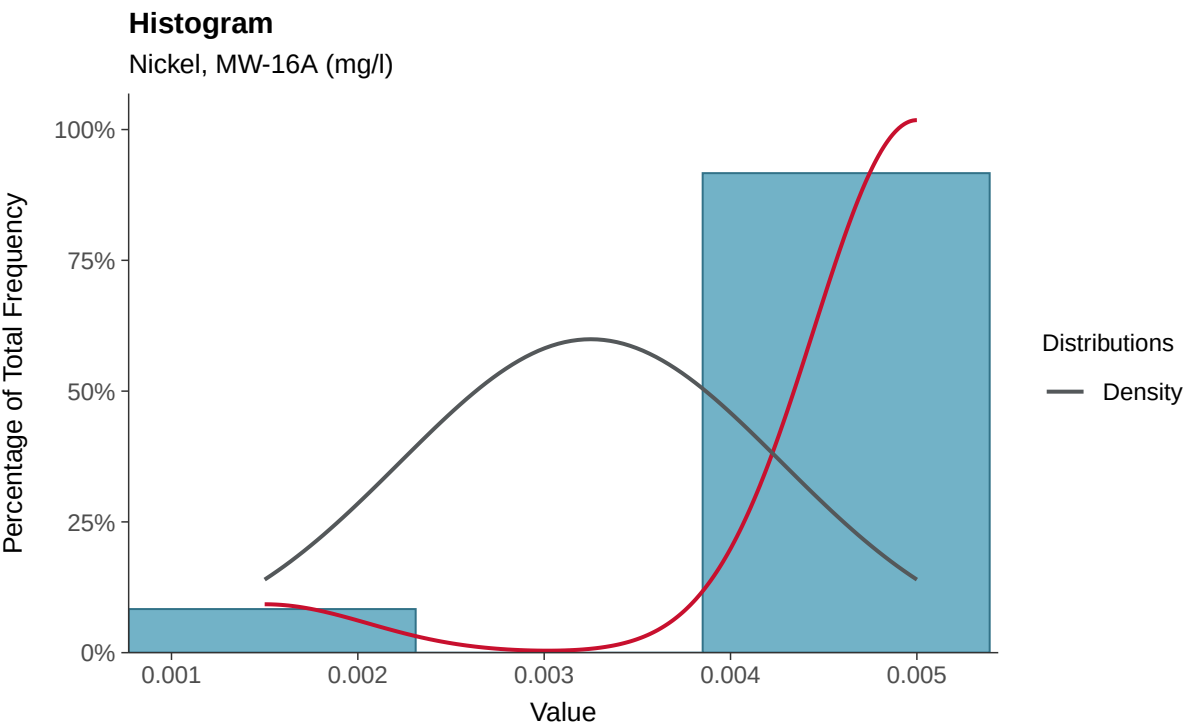
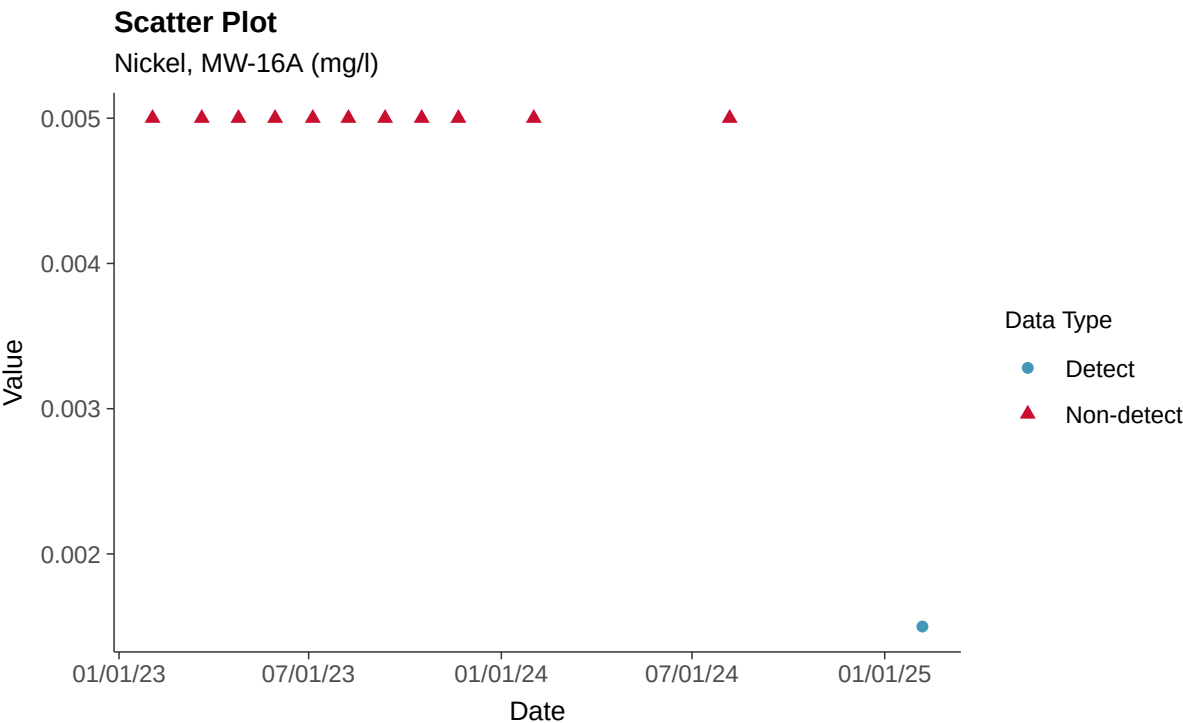


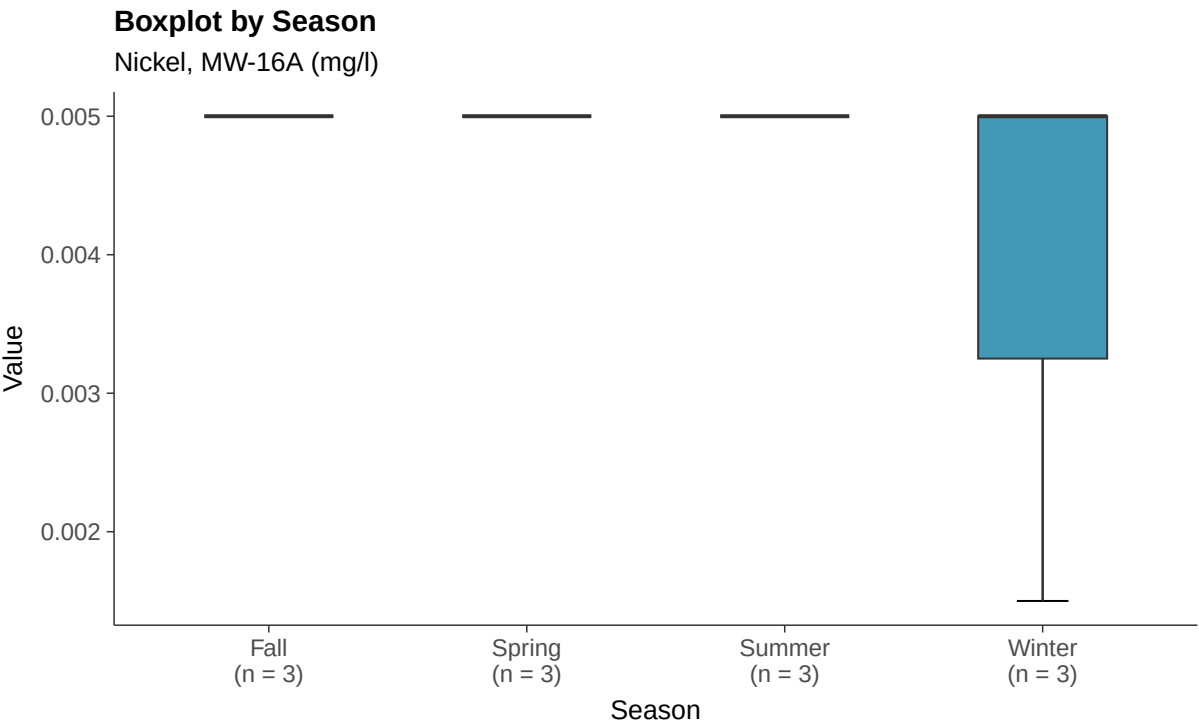




Part 115: Nickel, MW-16A

ID: 23_5_119

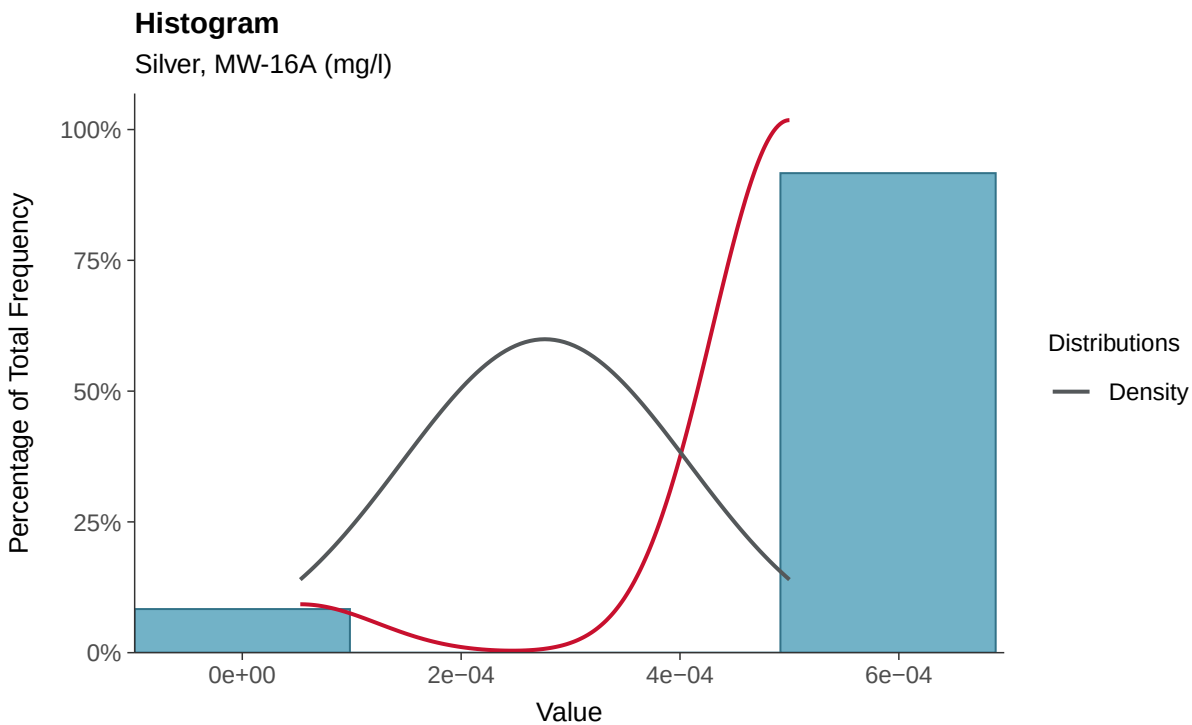
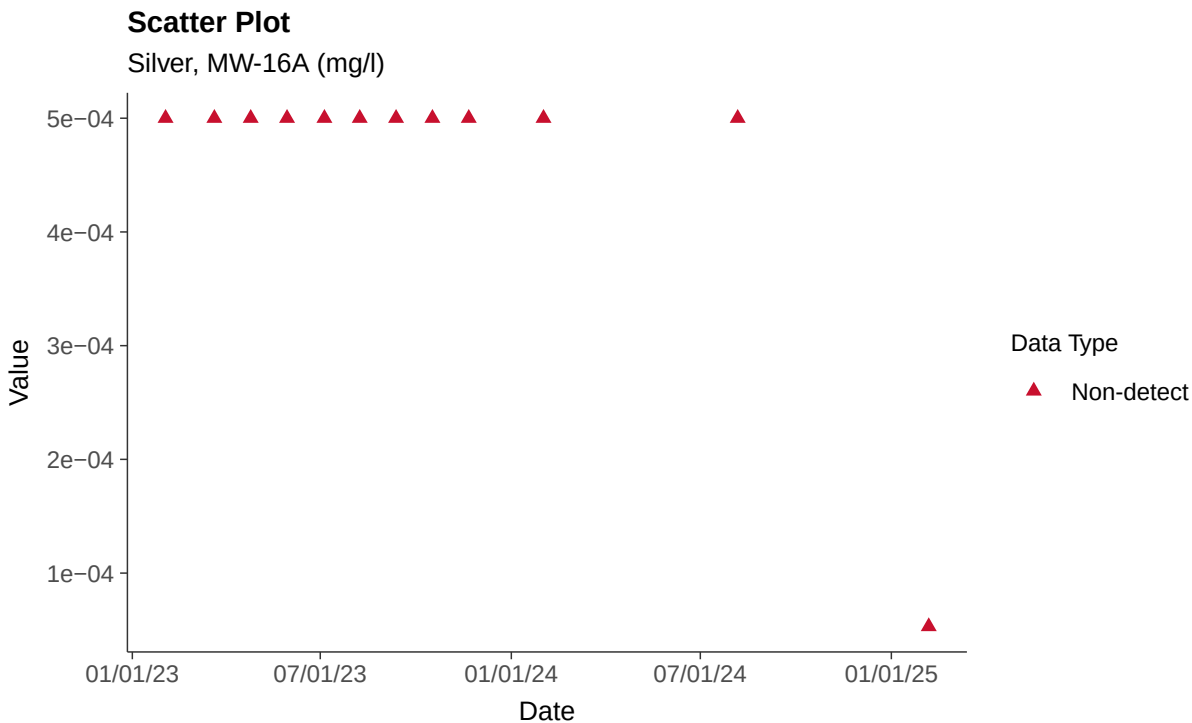


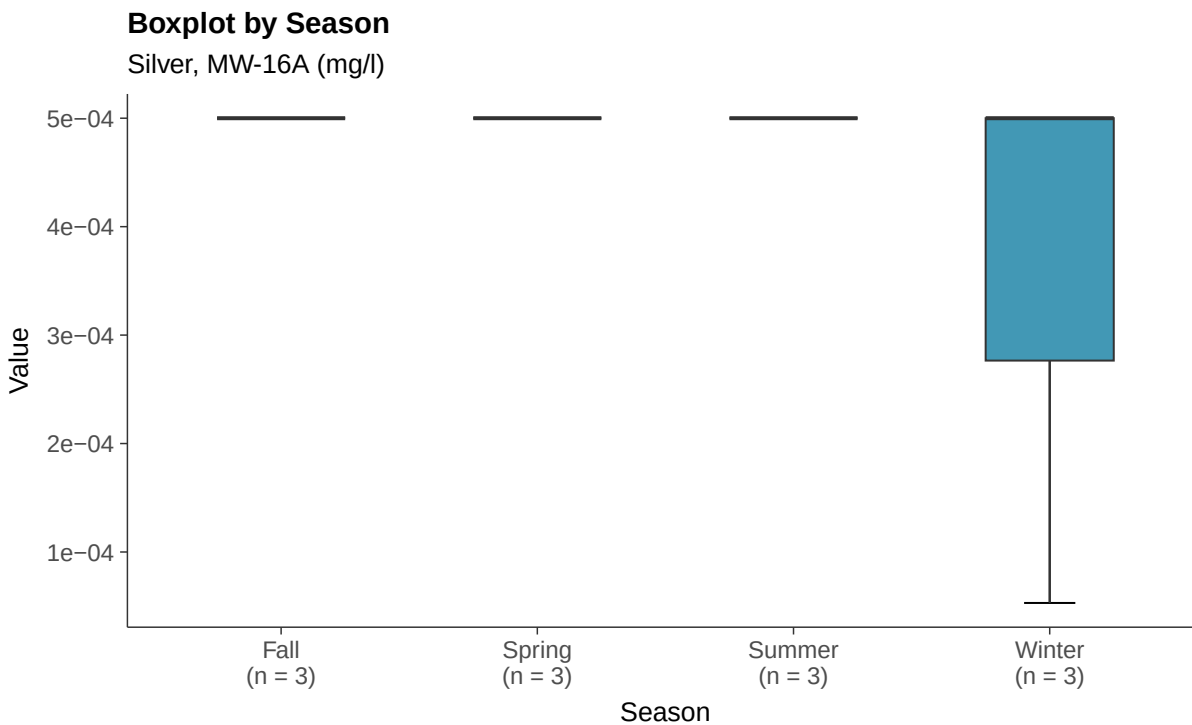
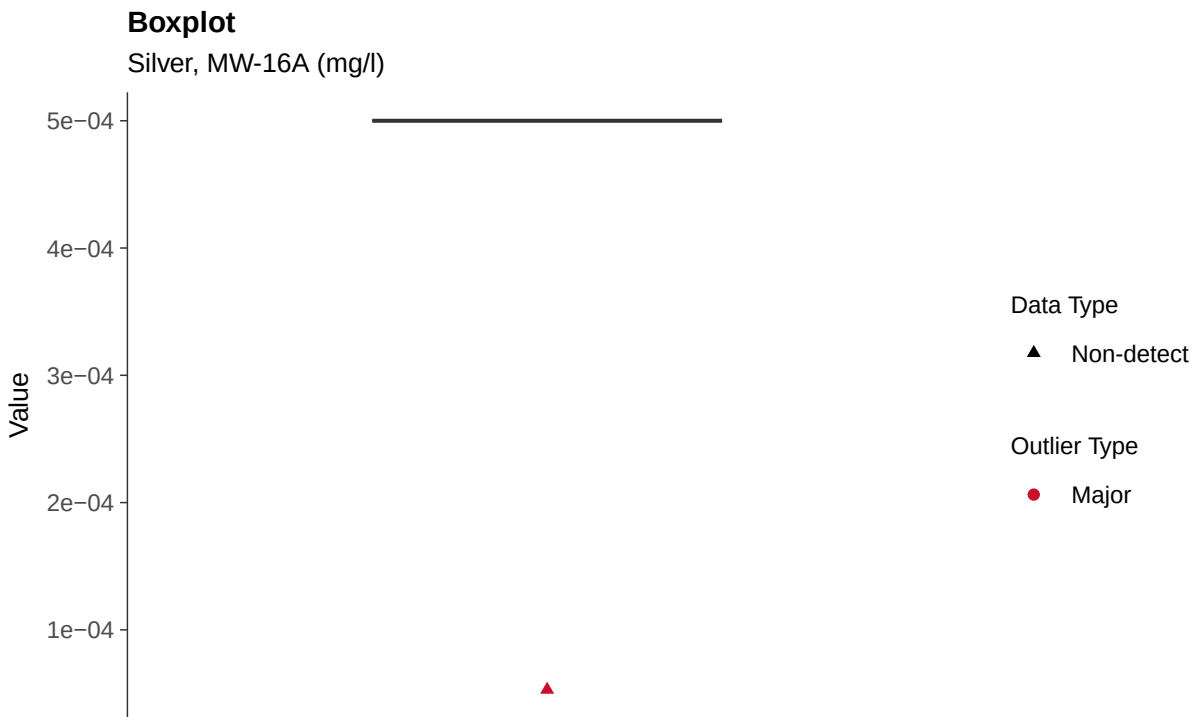




Part 115: Silver, MW-16A

ID: 23_5_123

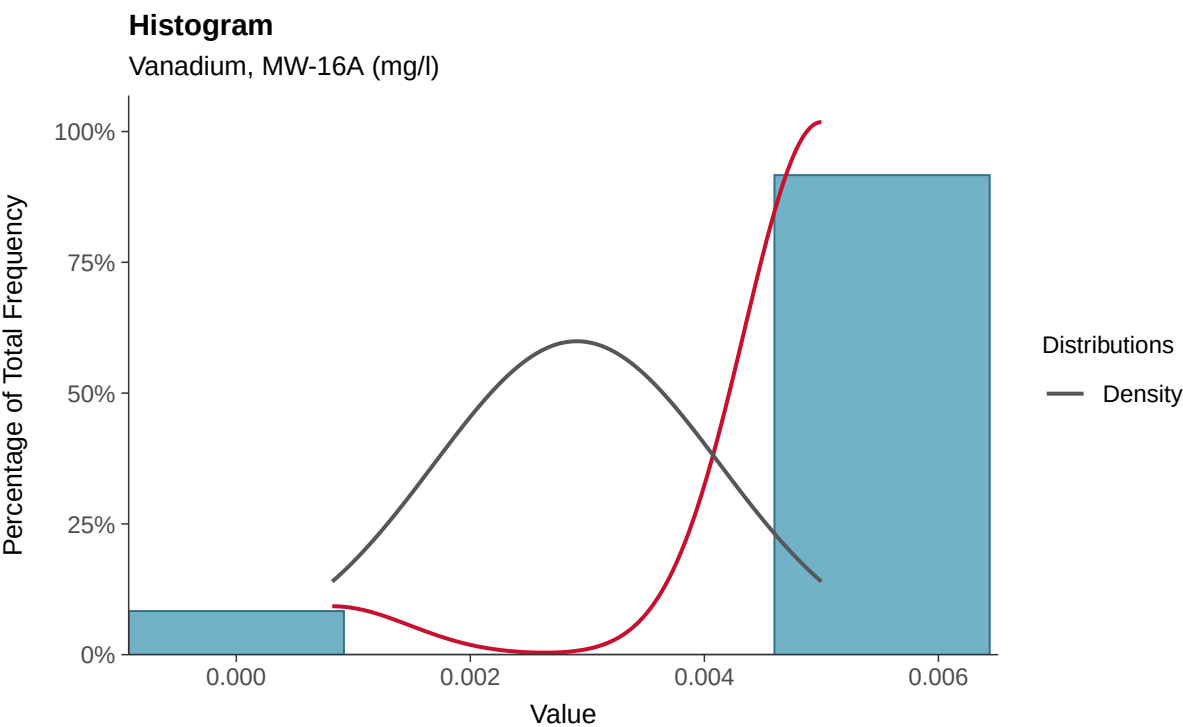
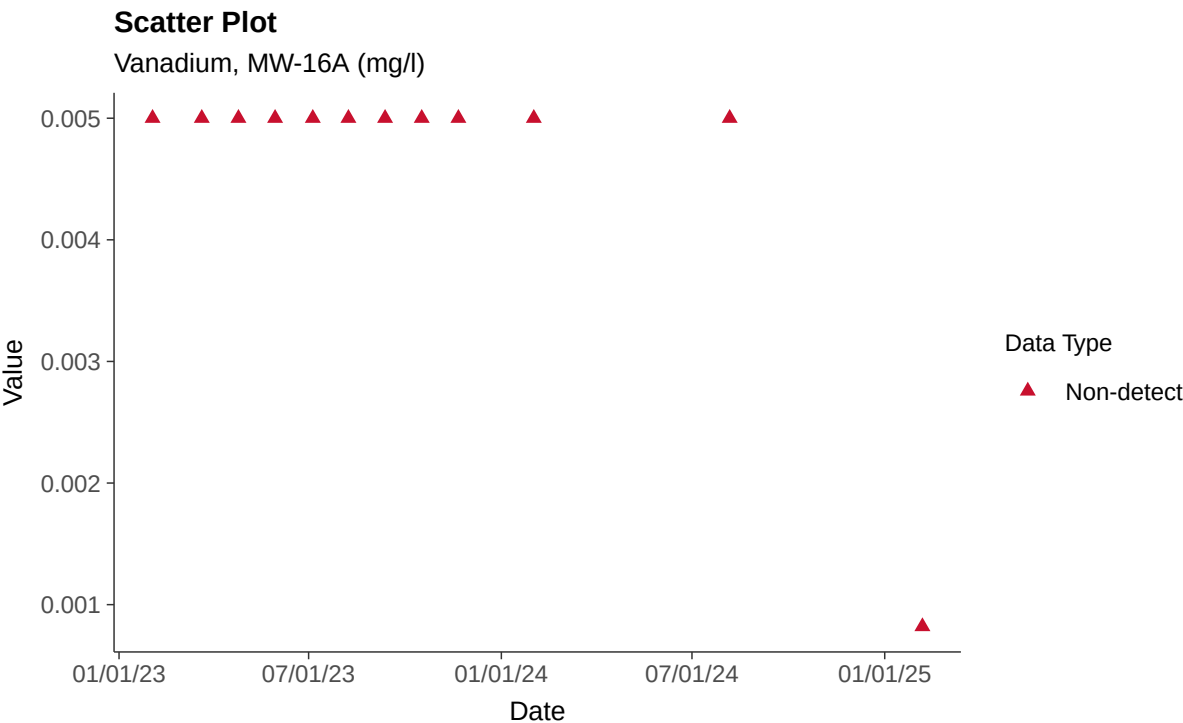


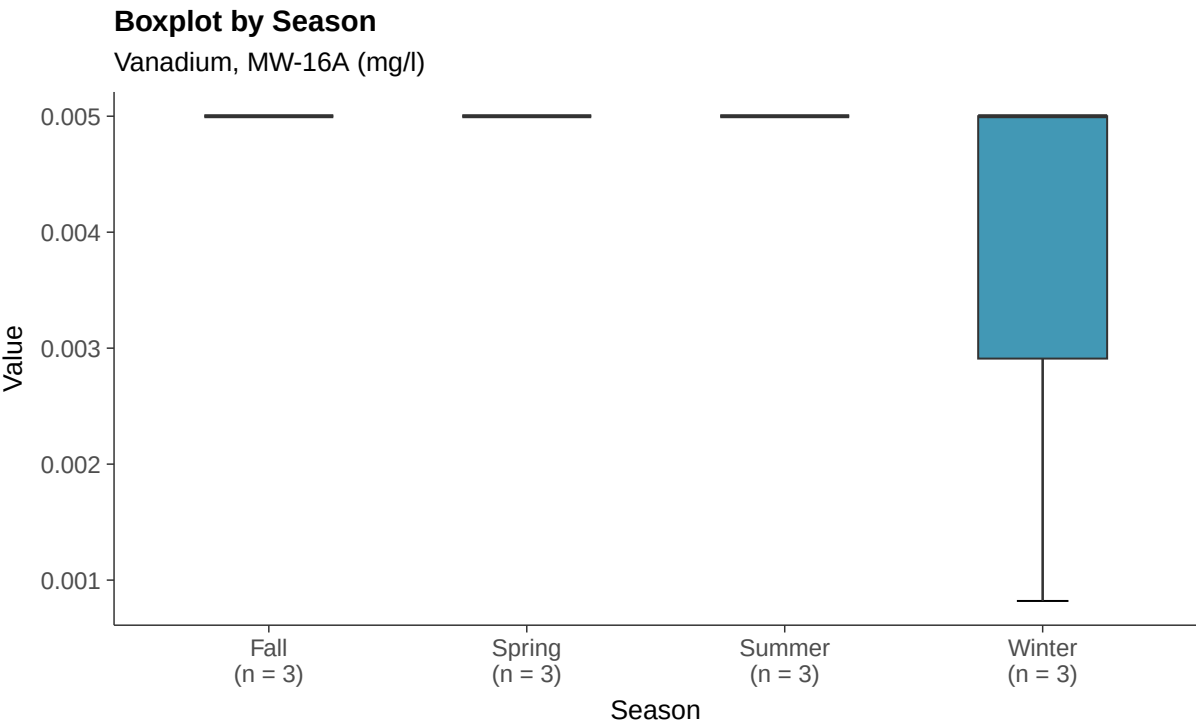
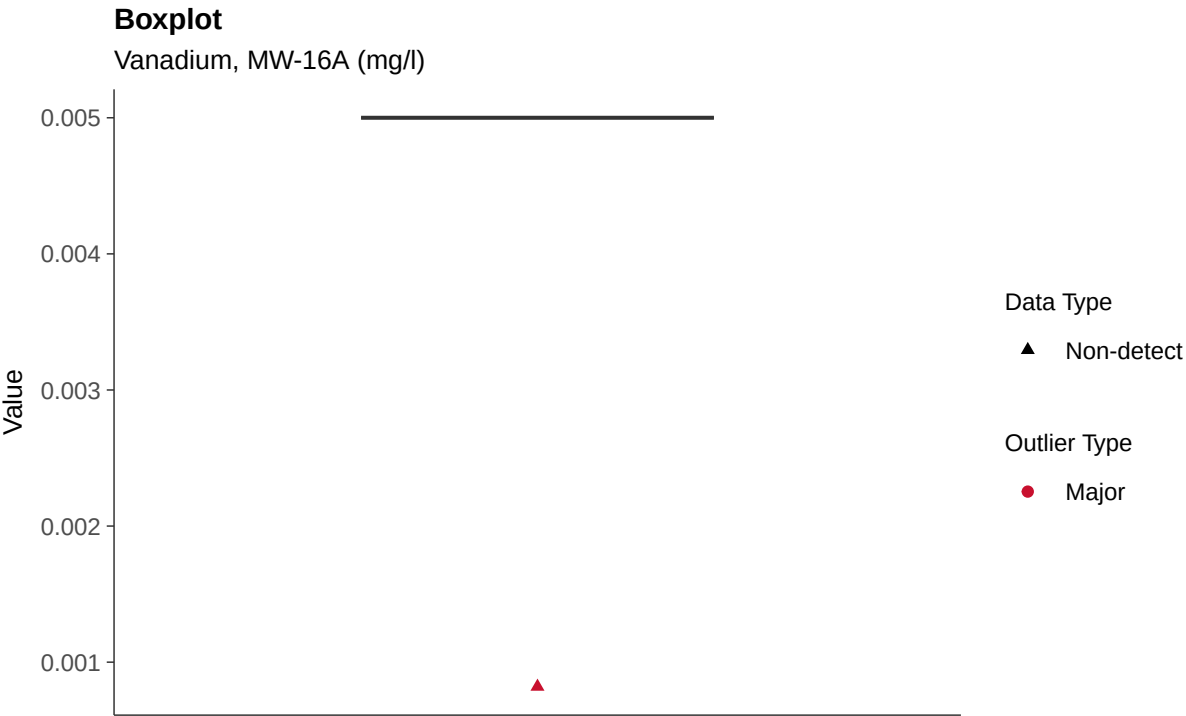




Part 115: Vanadium, MW-16A

ID: 23_5_128

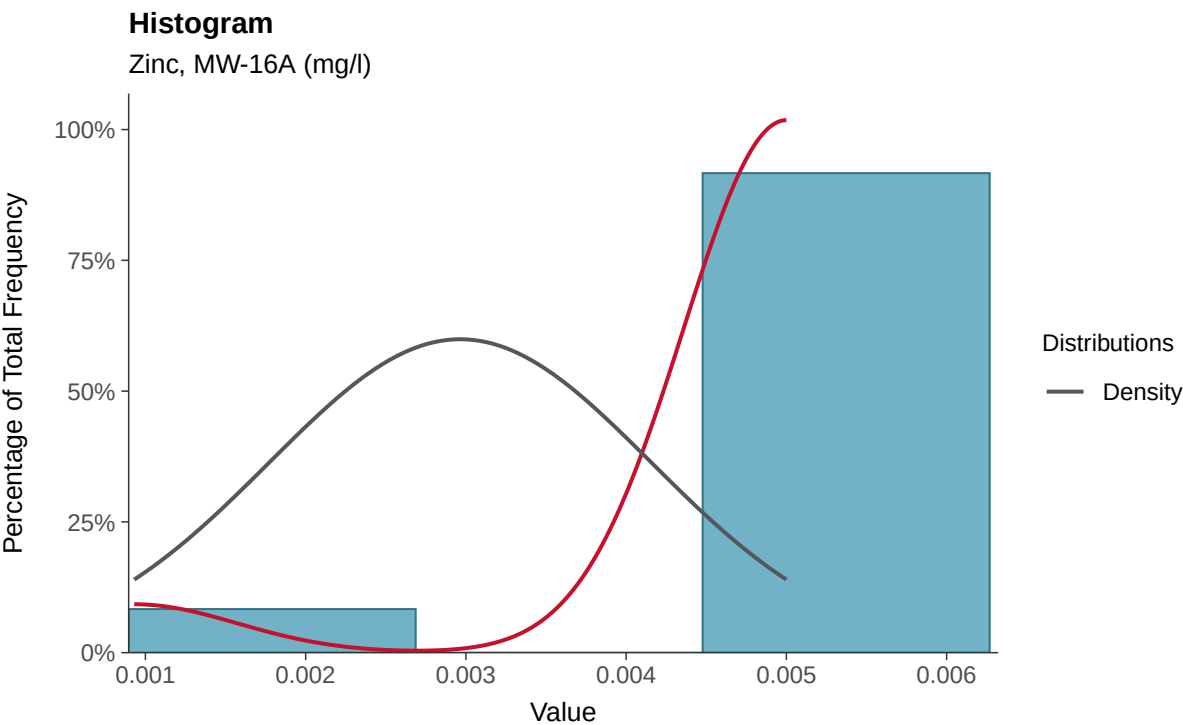
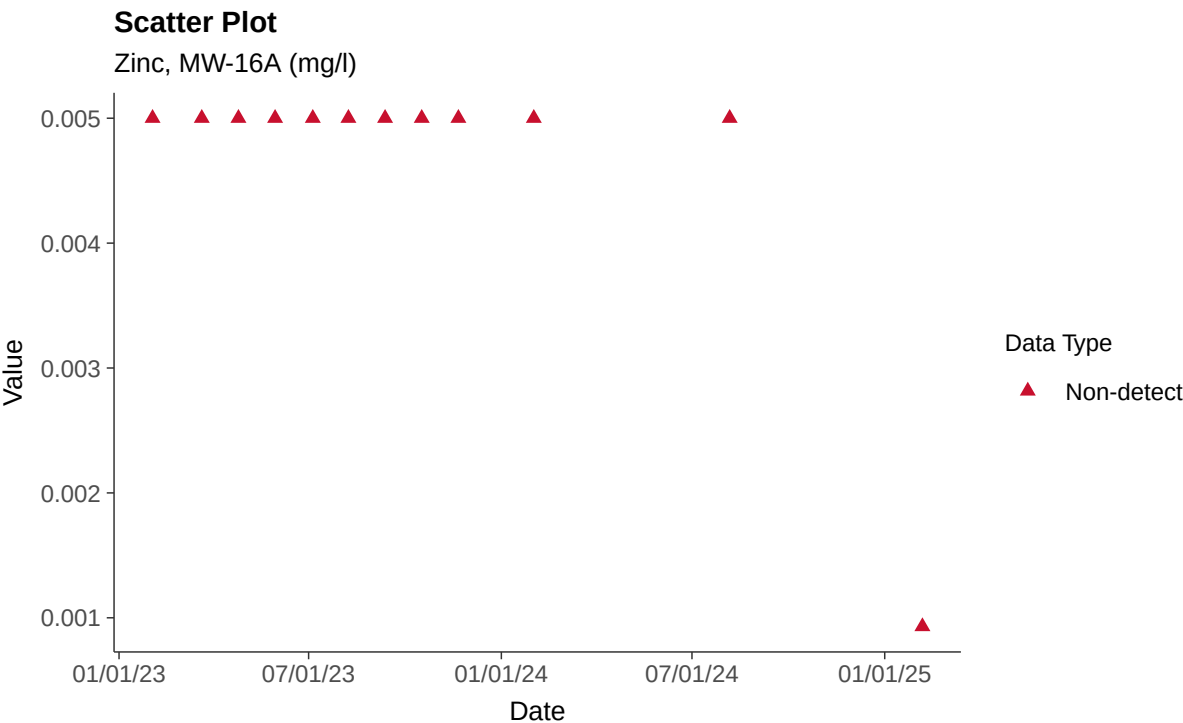


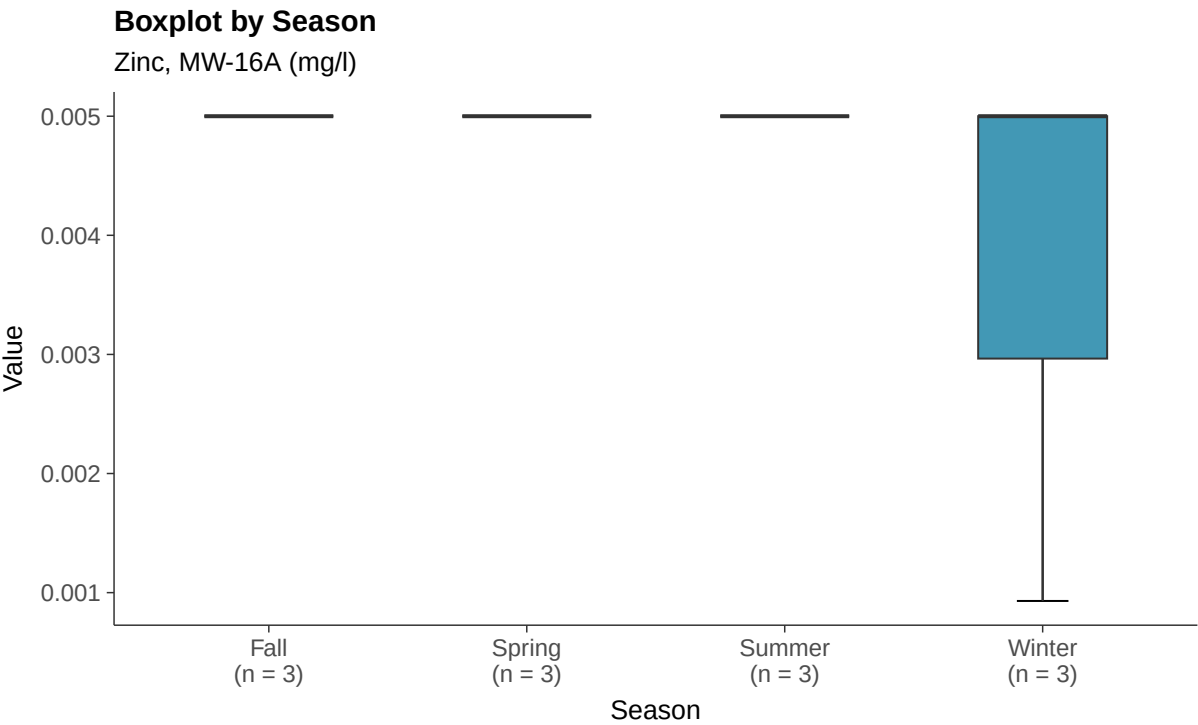
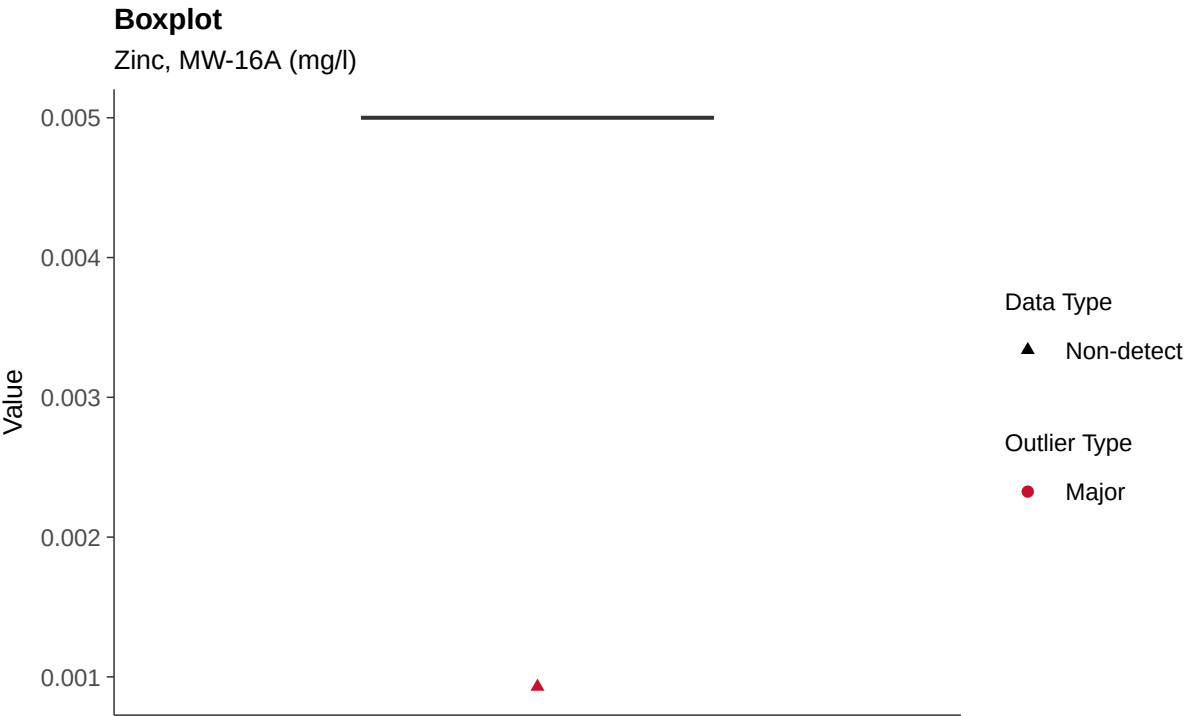




Part 115: Zinc, MW-16A

ID: 23_5_129

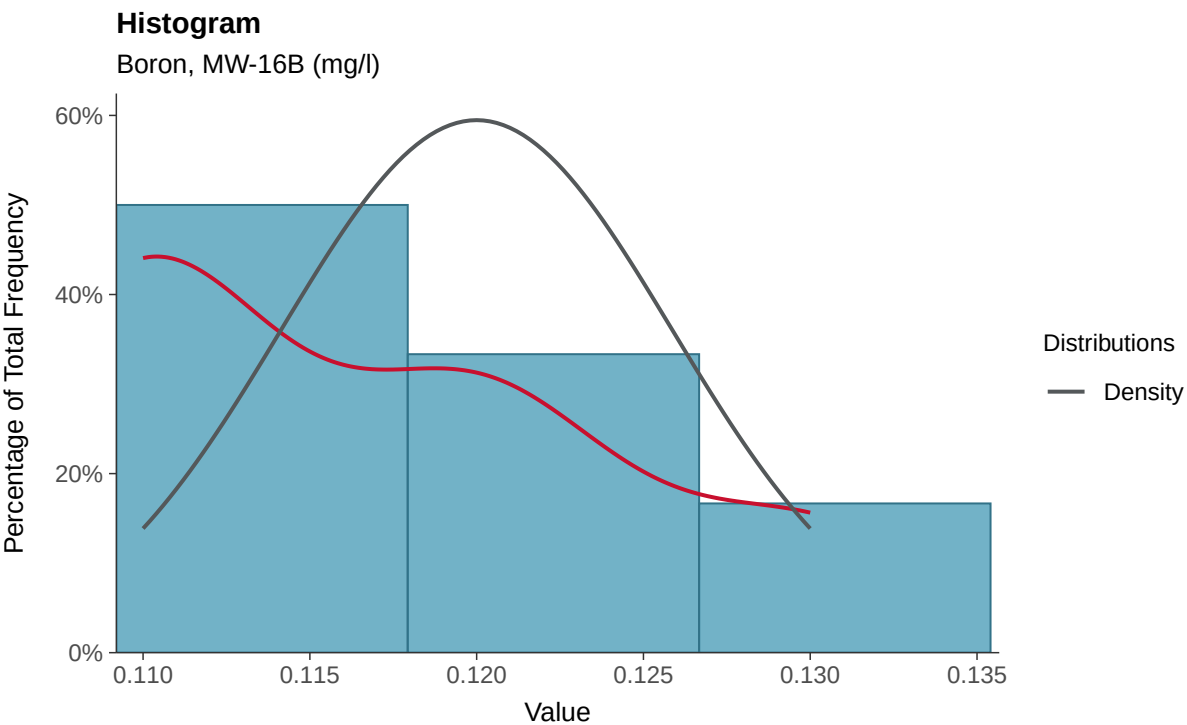
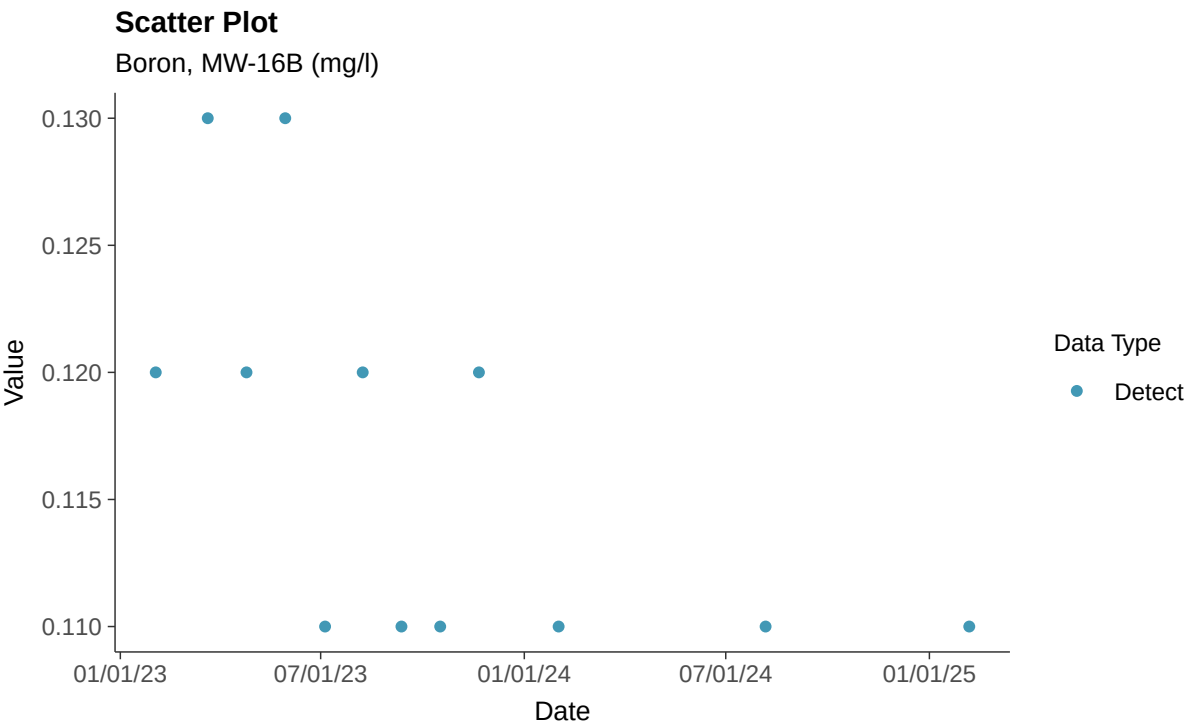


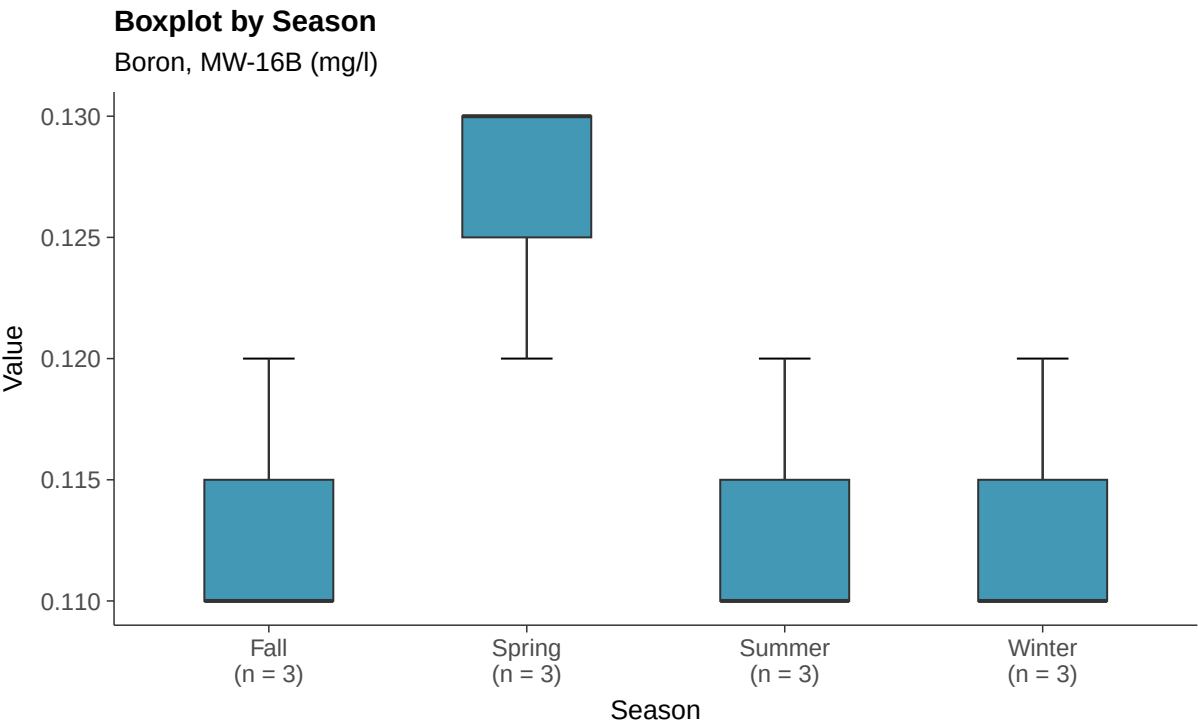
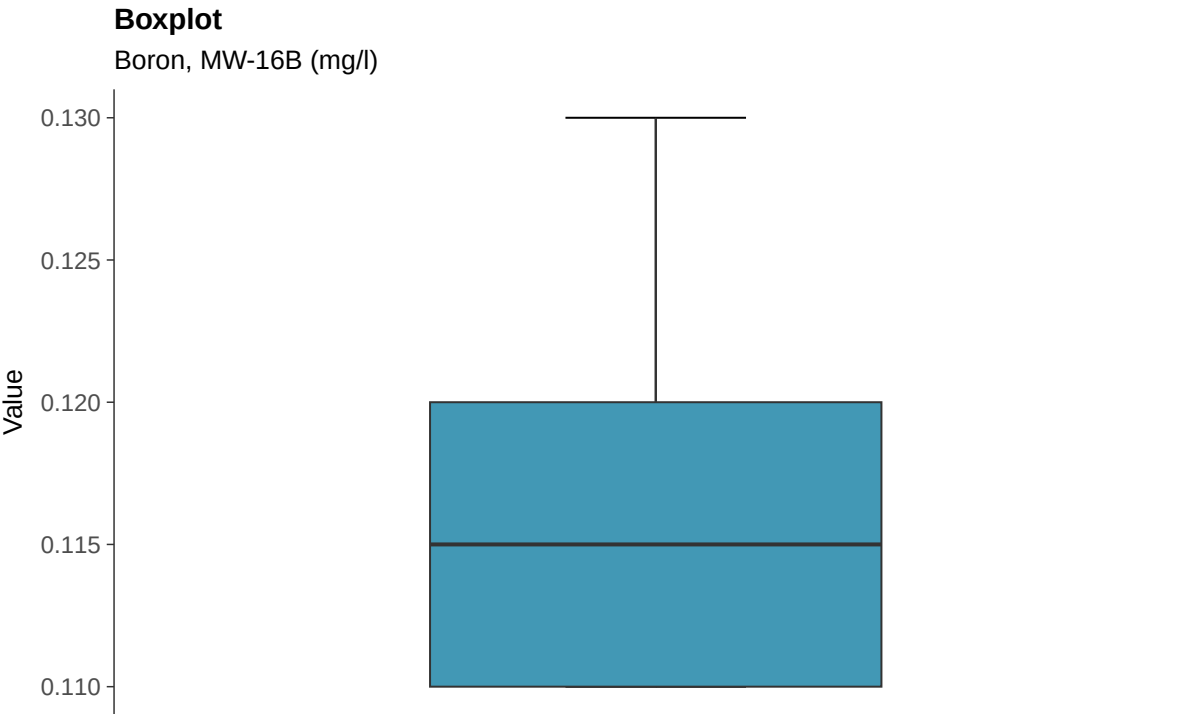


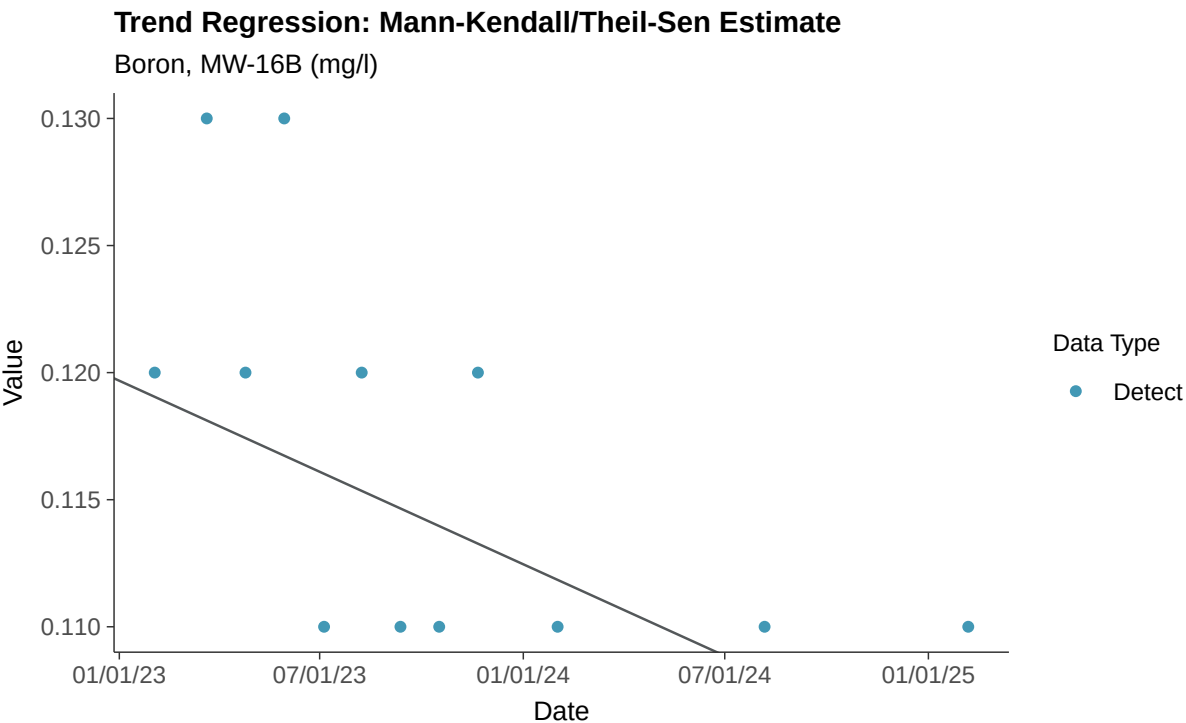
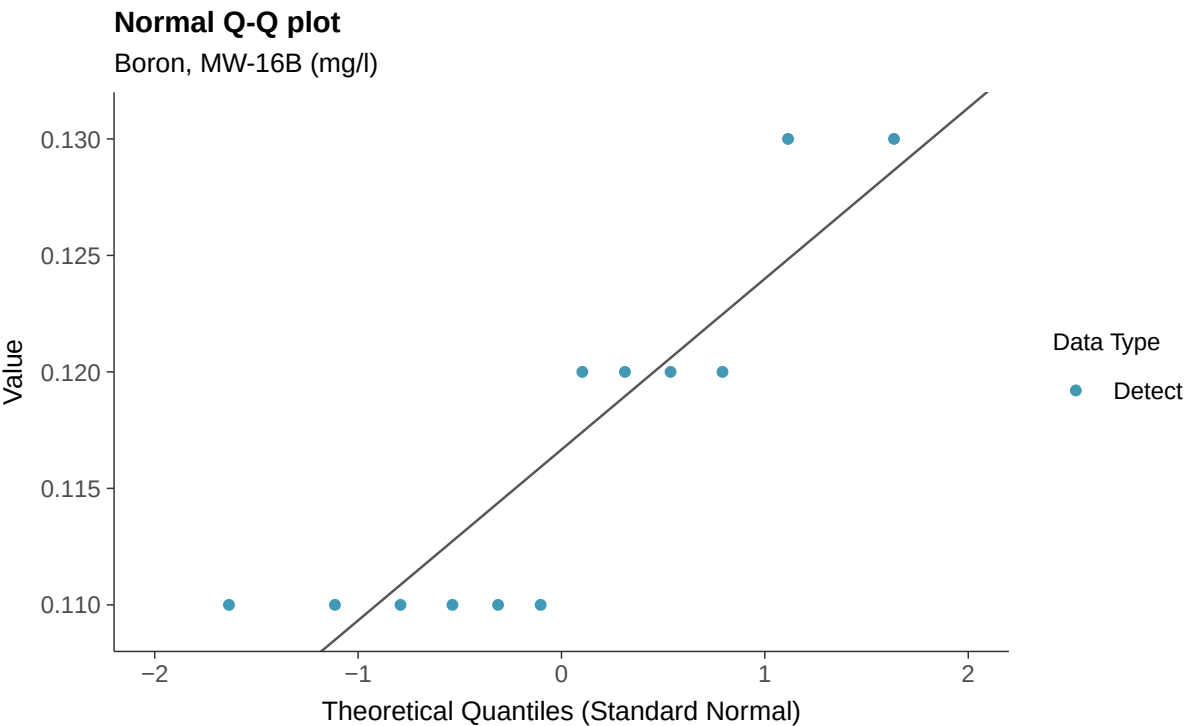


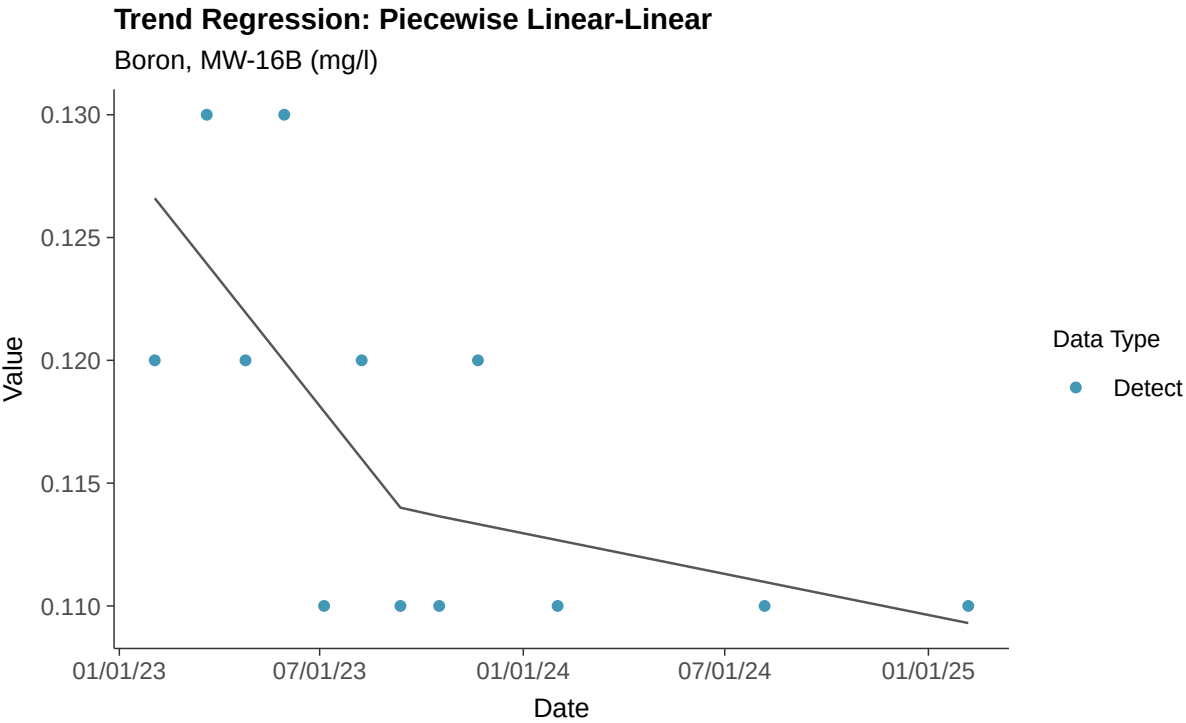
Appendix III: Boron, MW-16B

ID: 24_2_105





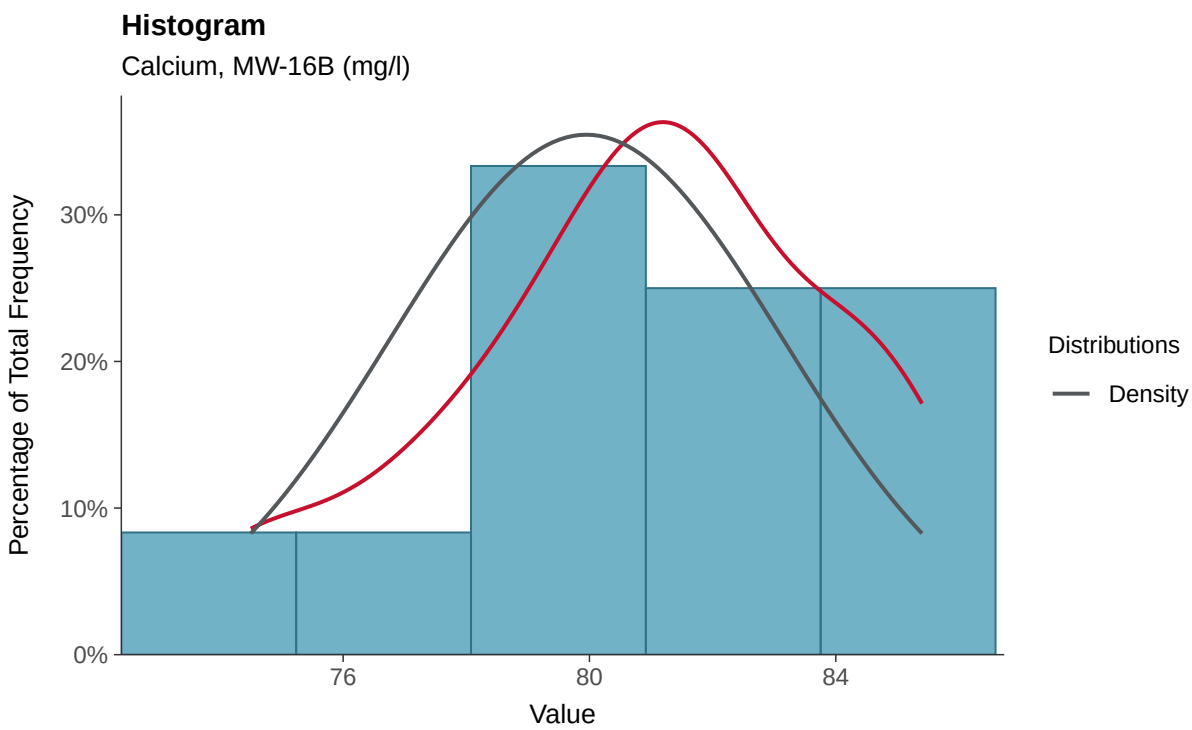
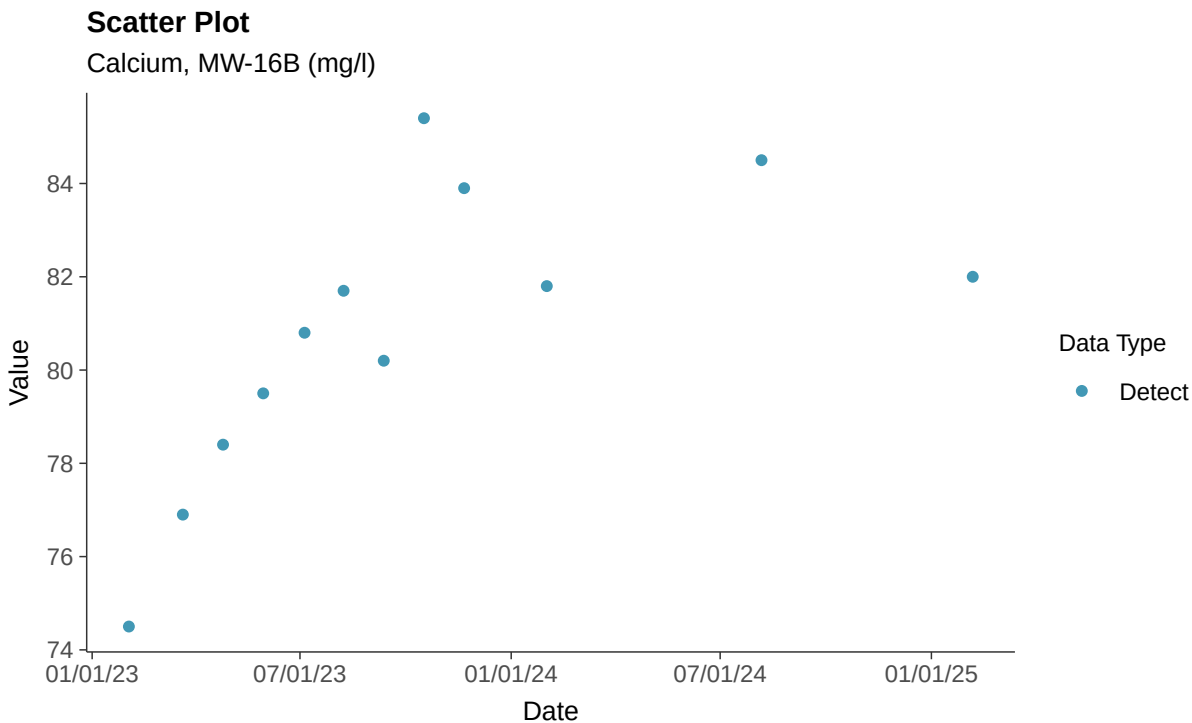


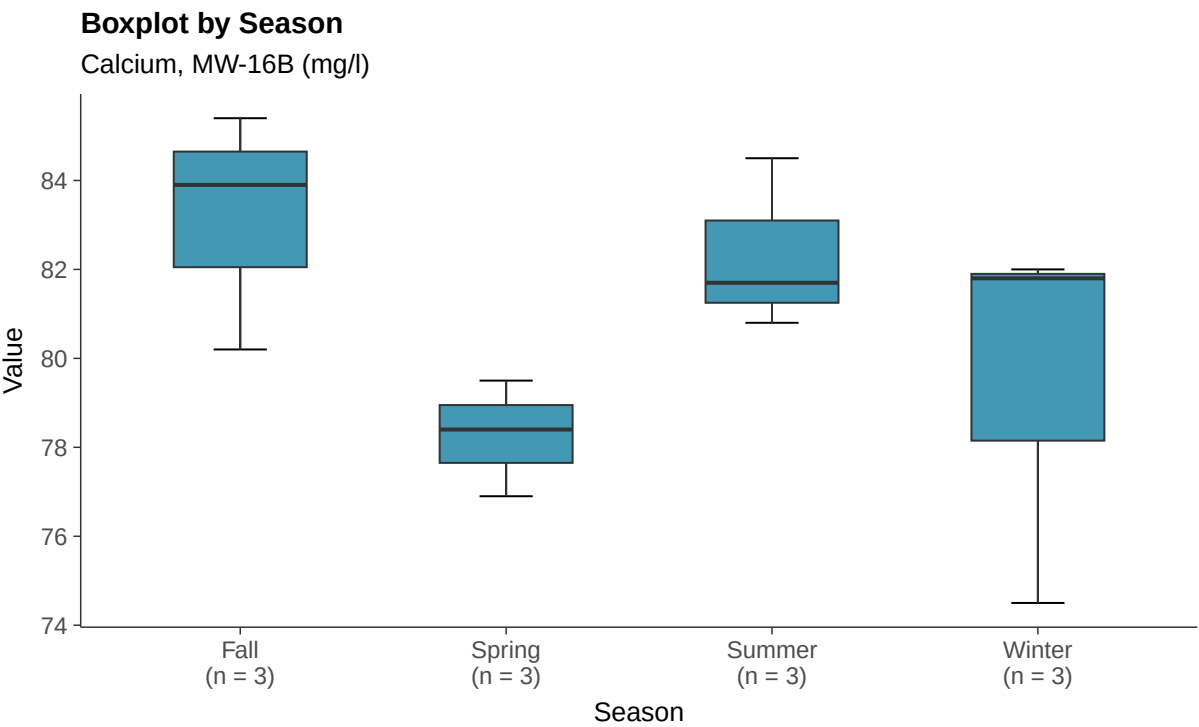
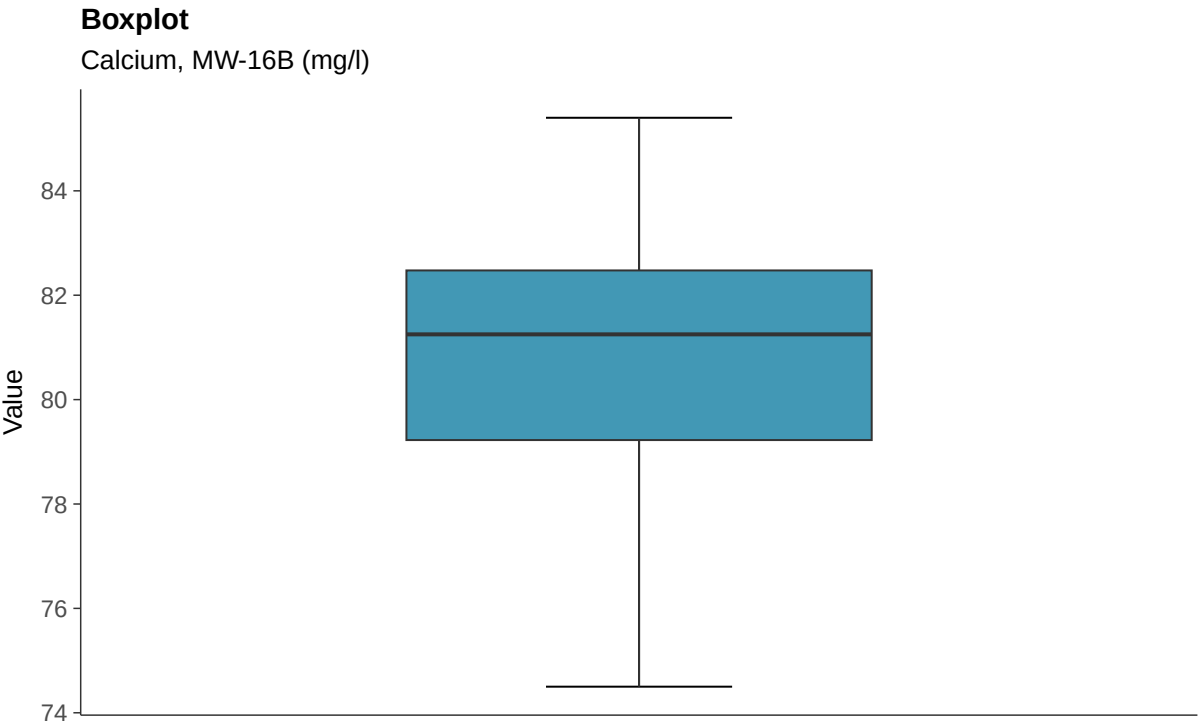


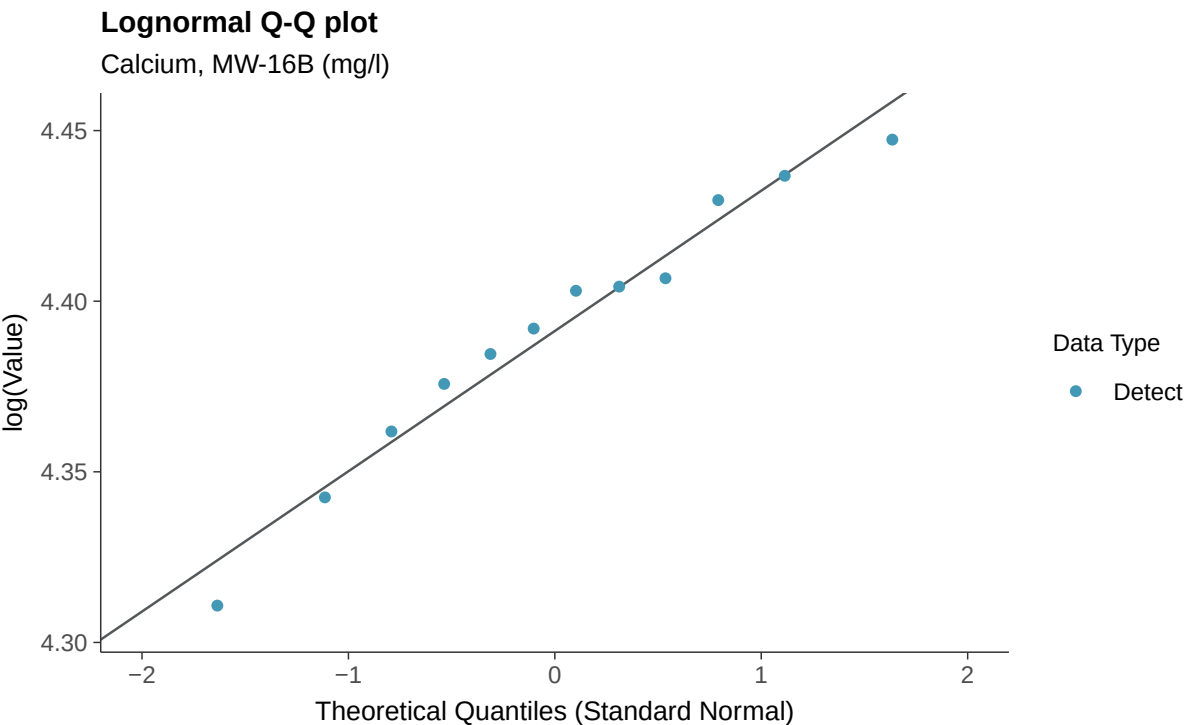
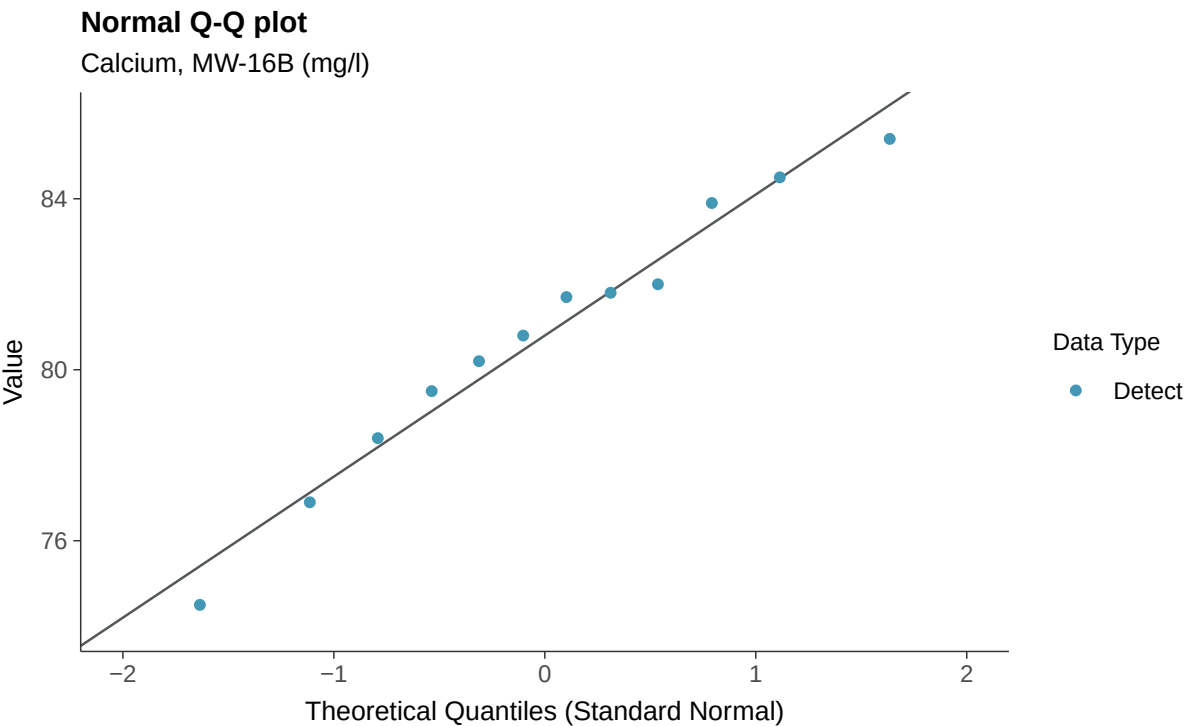


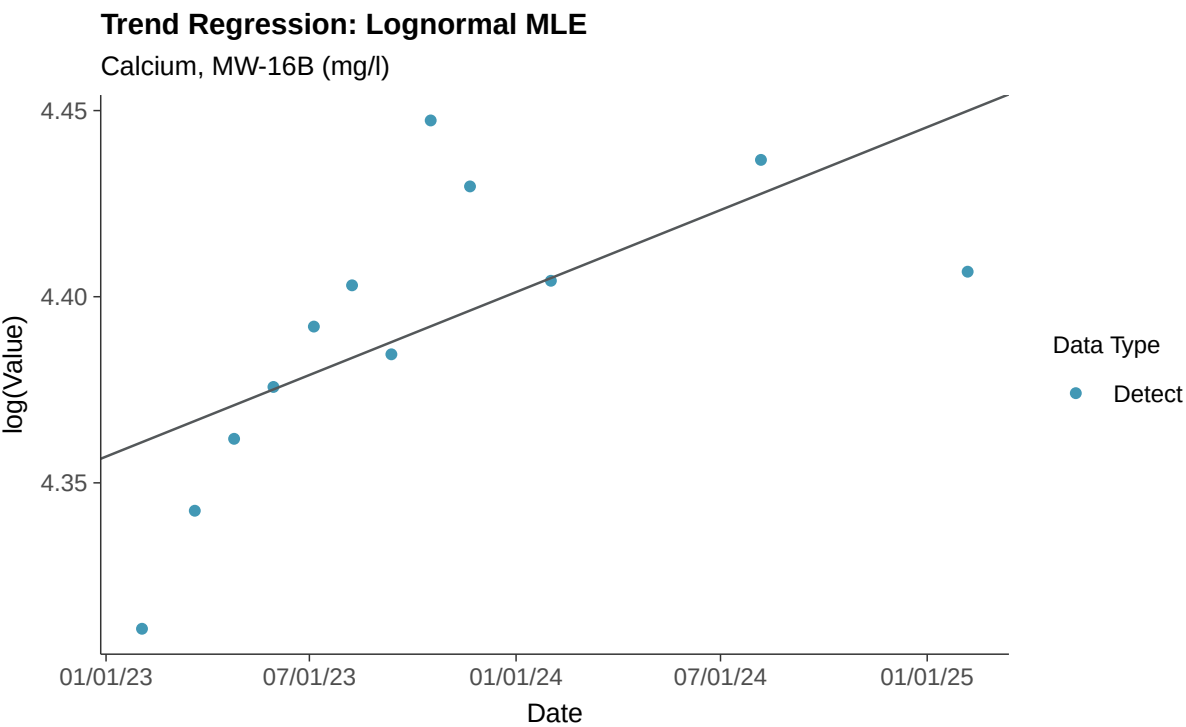
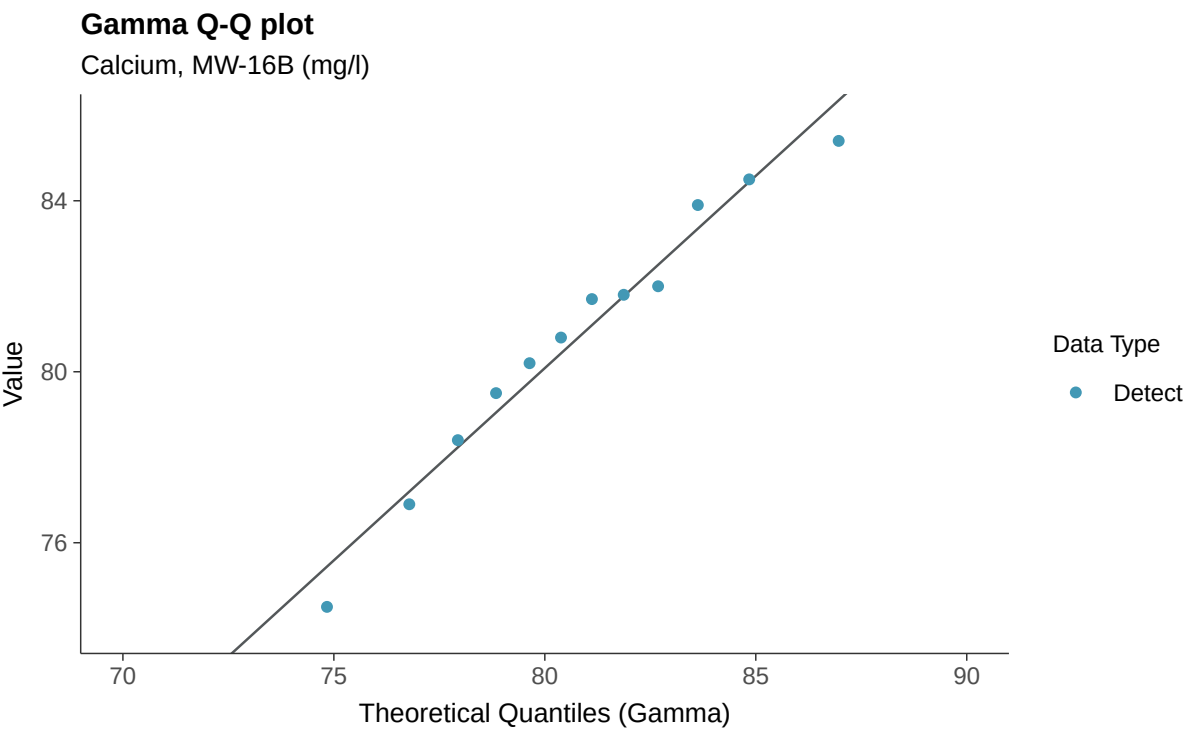
Appendix III: Calcium, MW-16B

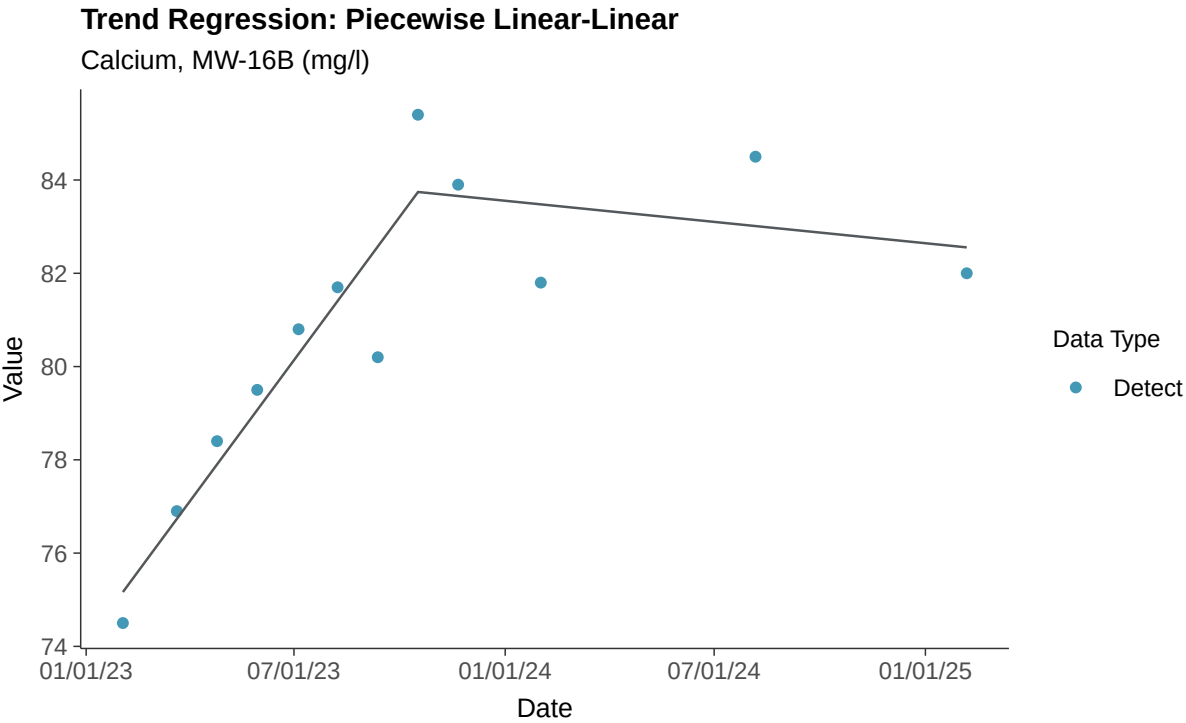
ID: 24_2_107







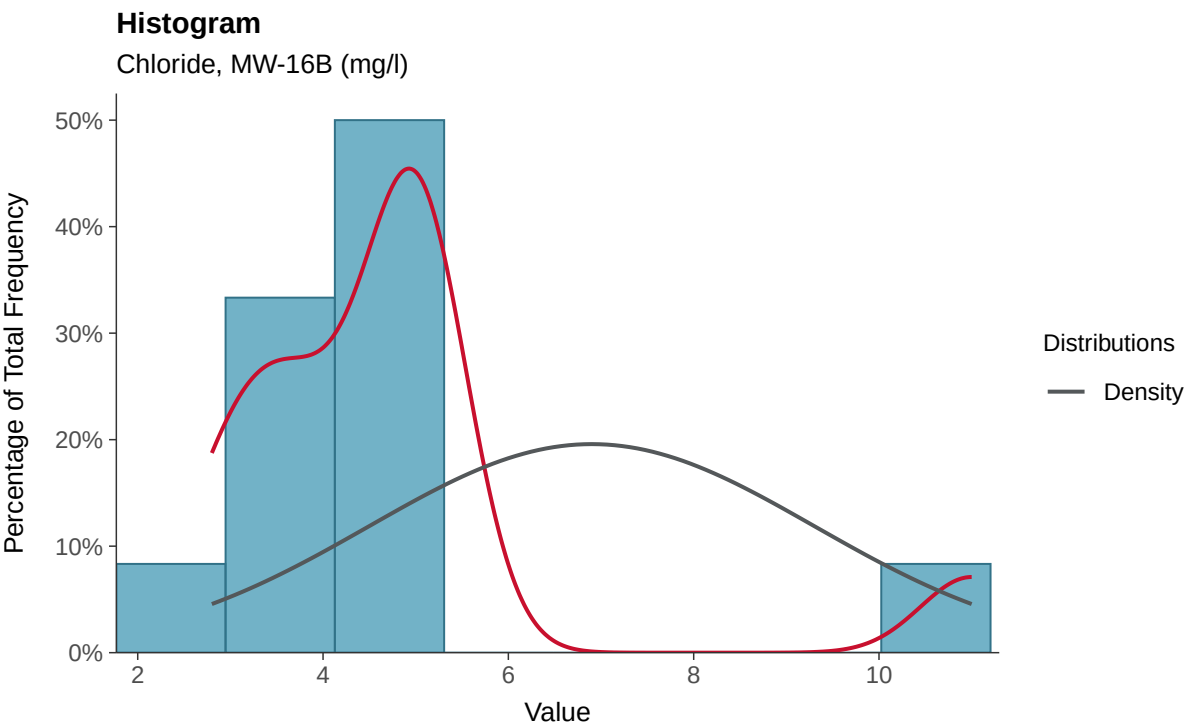
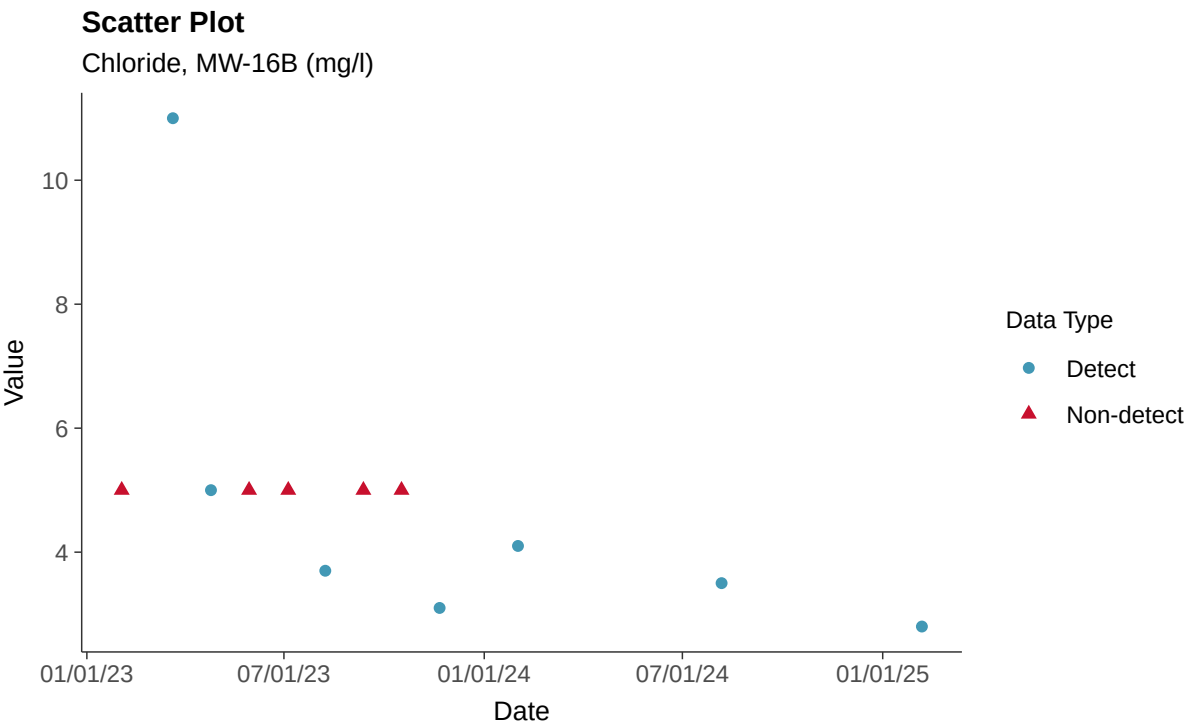


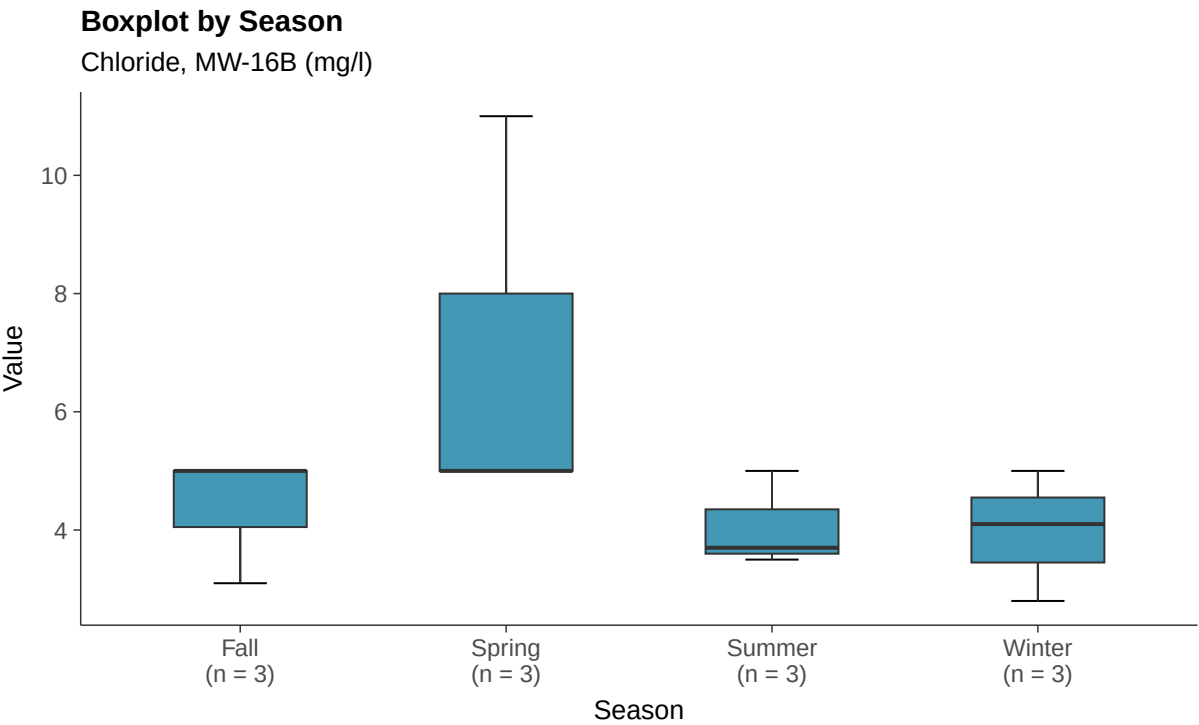
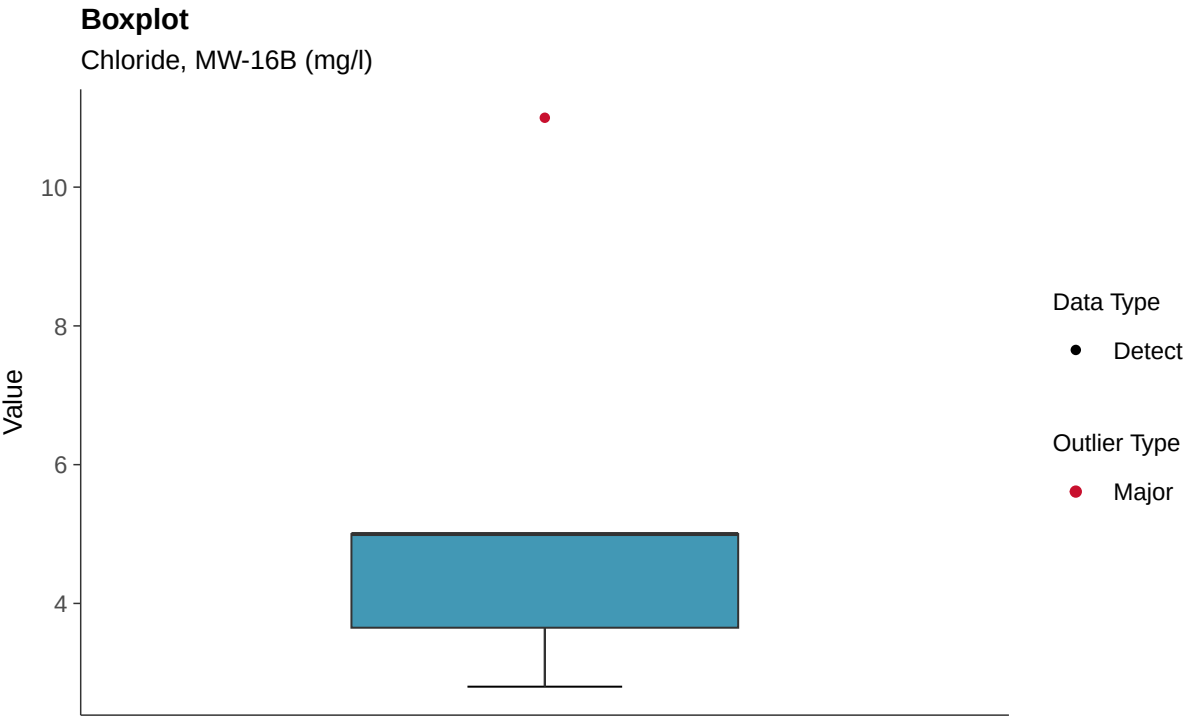




Appendix III: Chloride, MW-16B

ID: 24_2_108

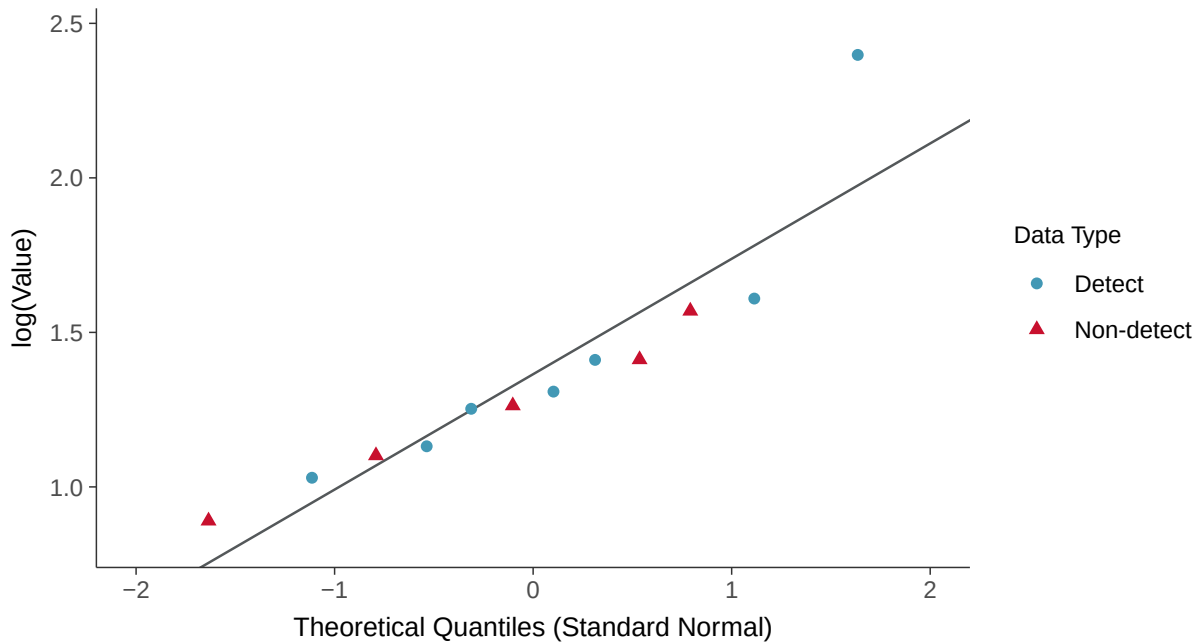






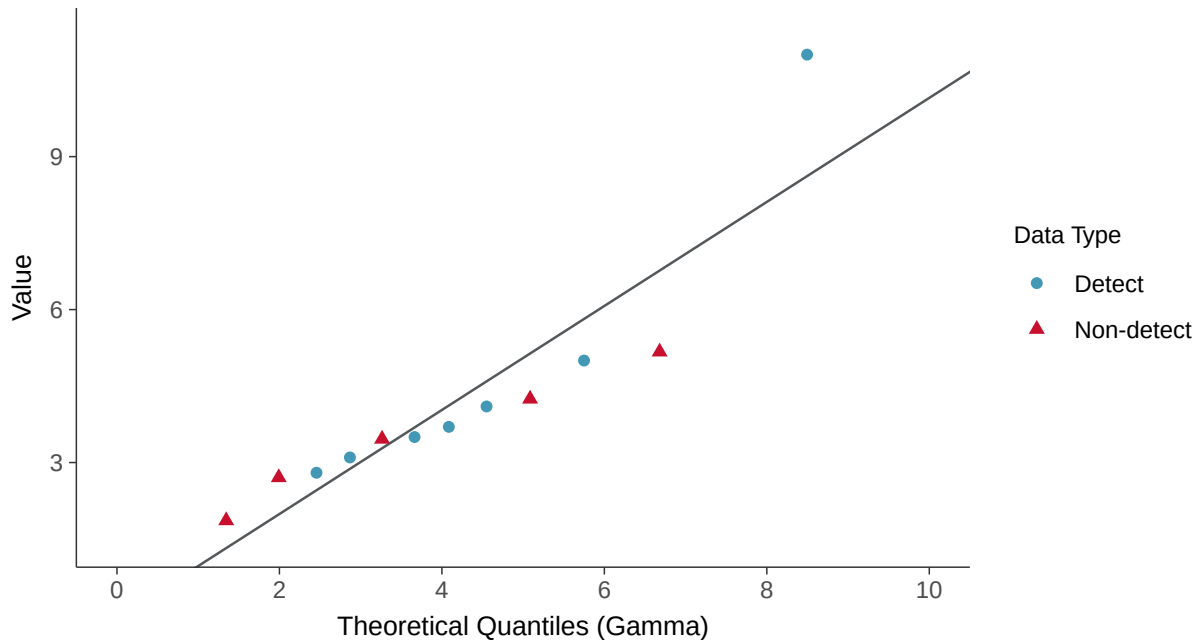
Lognormal Q-Q plot using ROS Imputed Estimates

Chloride, MW-16B (mg/l)



Gamma Q-Q plot using ROS Imputed Estimates

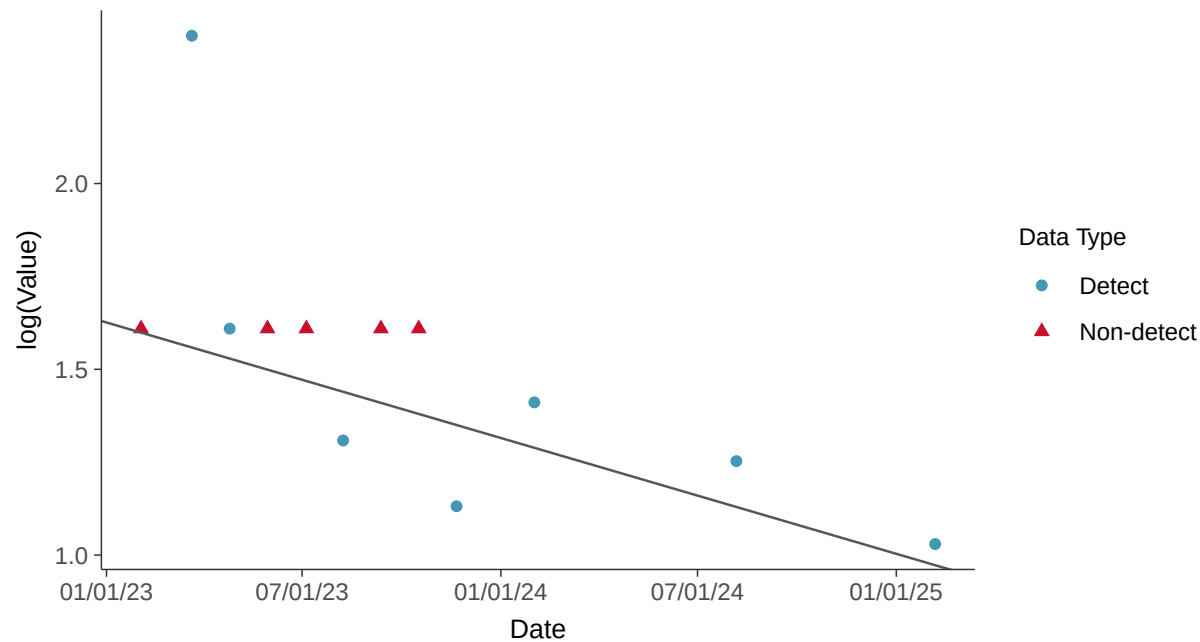
Chloride, MW-16B (mg/l)





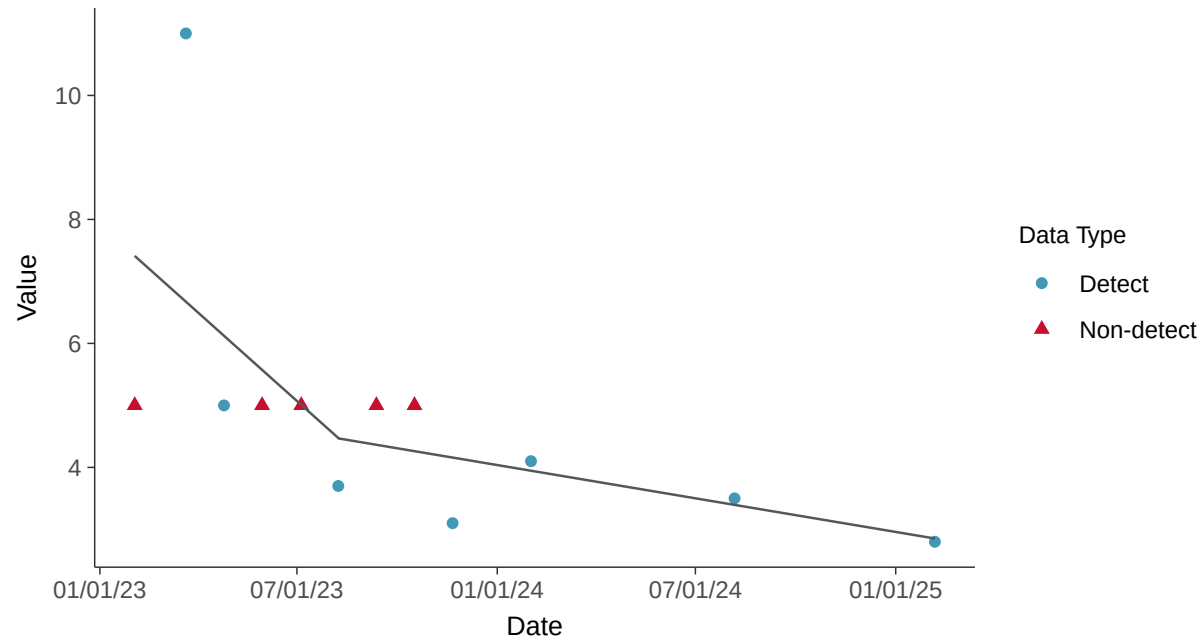
Trend Regression: Lognormal MLE

Chloride, MW-16B (mg/l)



Trend Regression: Piecewise Linear-Linear

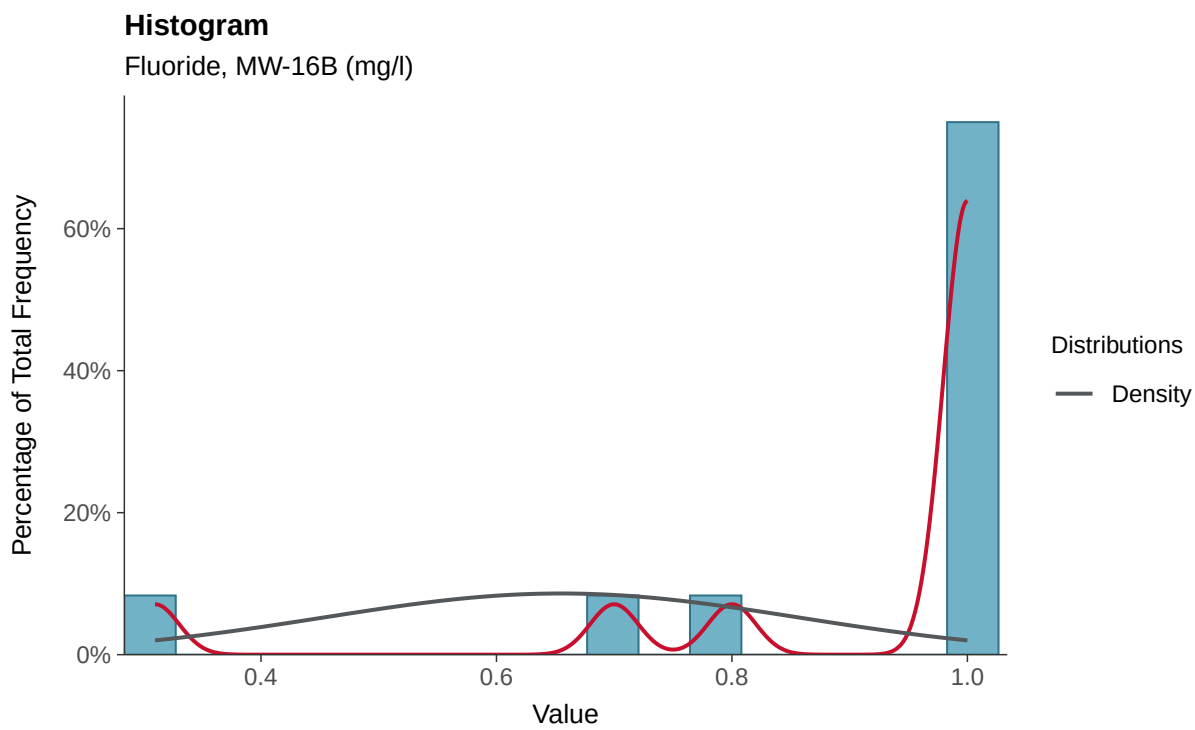
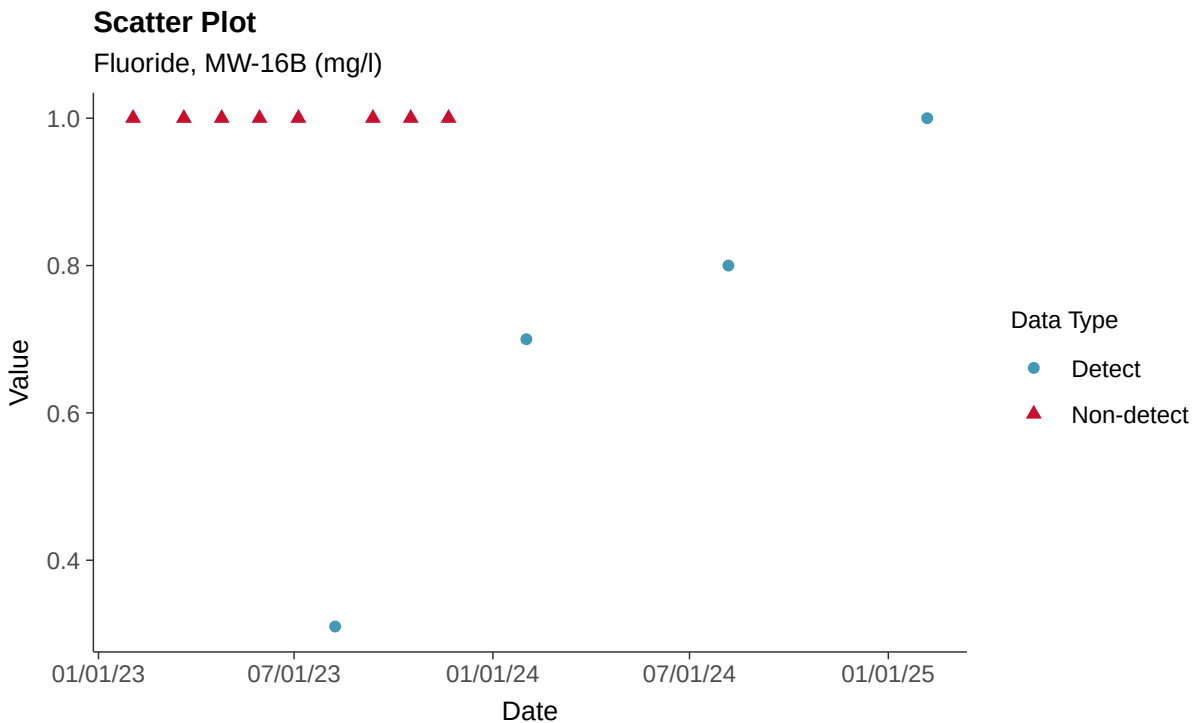
Chloride, MW-16B (mg/l)

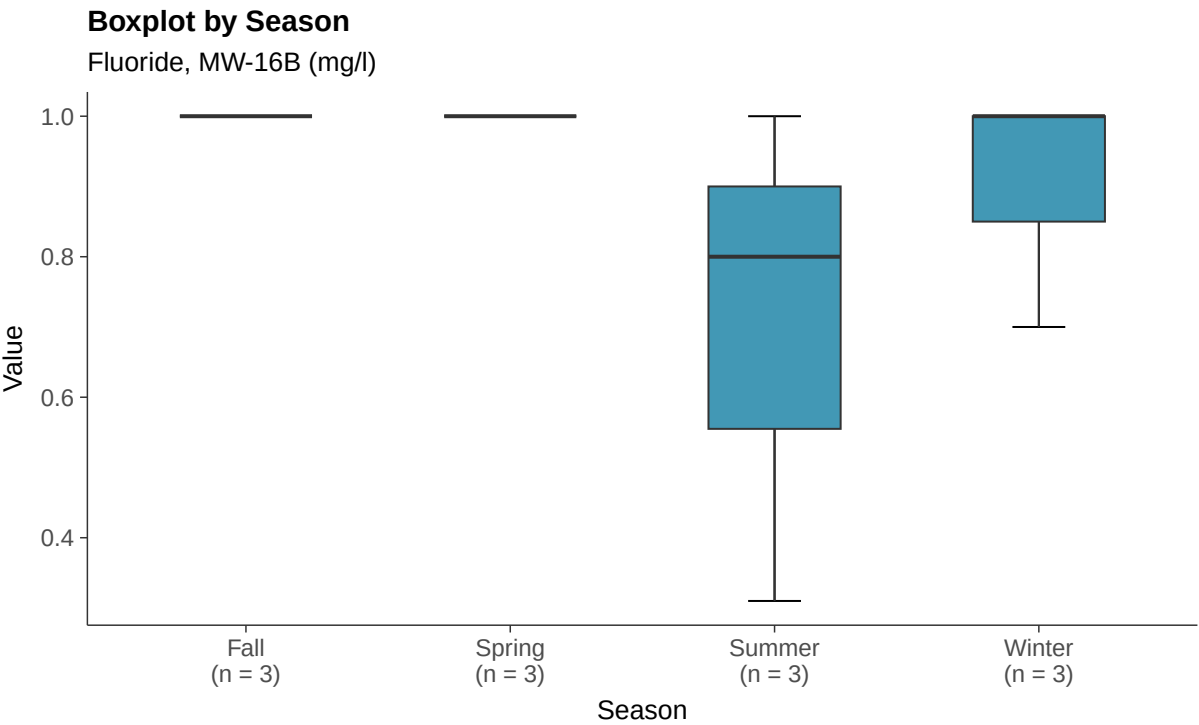
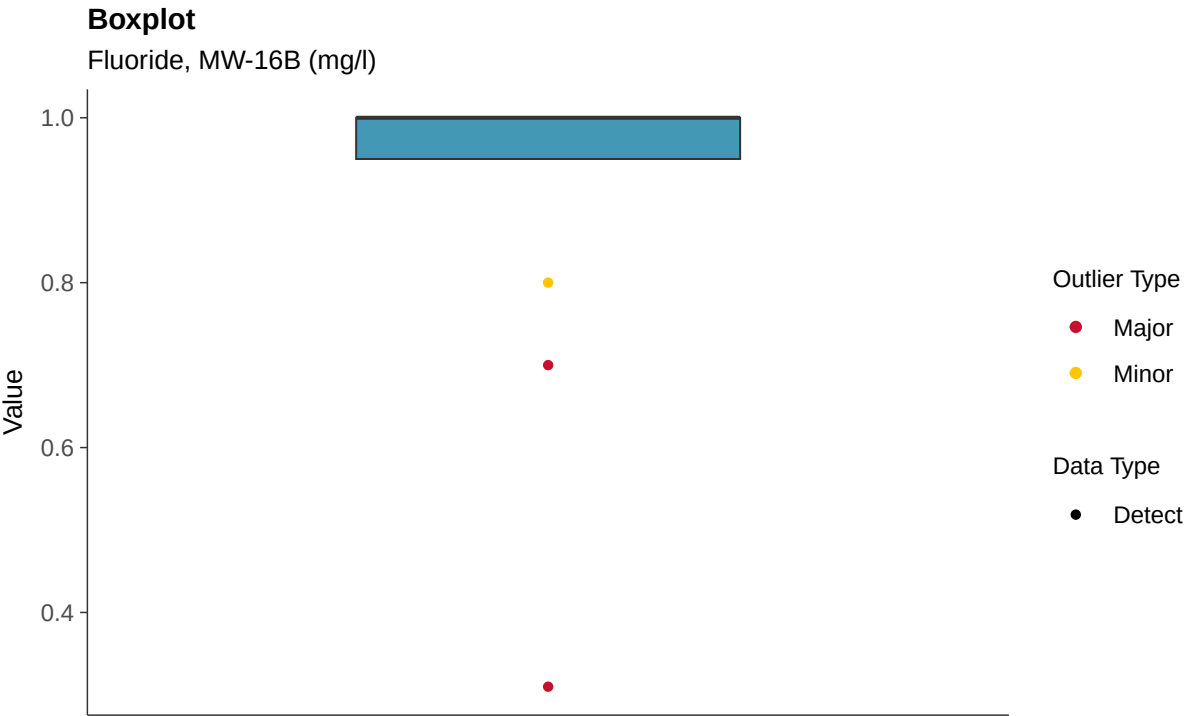




Appendix III: Fluoride, MW-16B

ID: 24_2_112

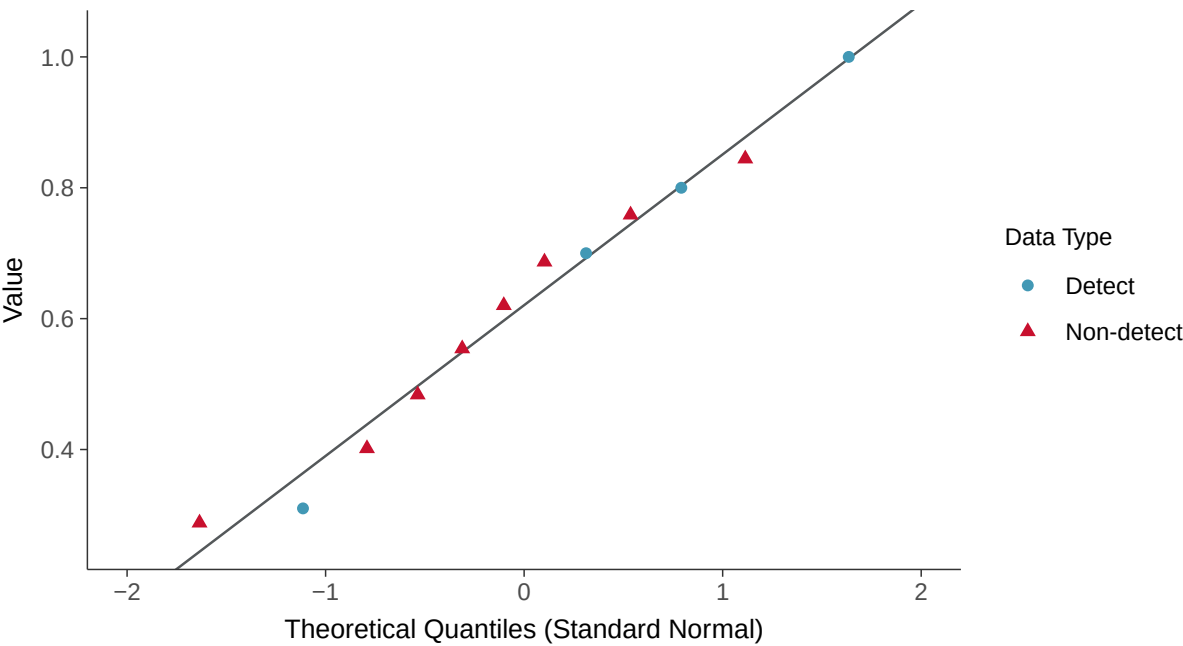






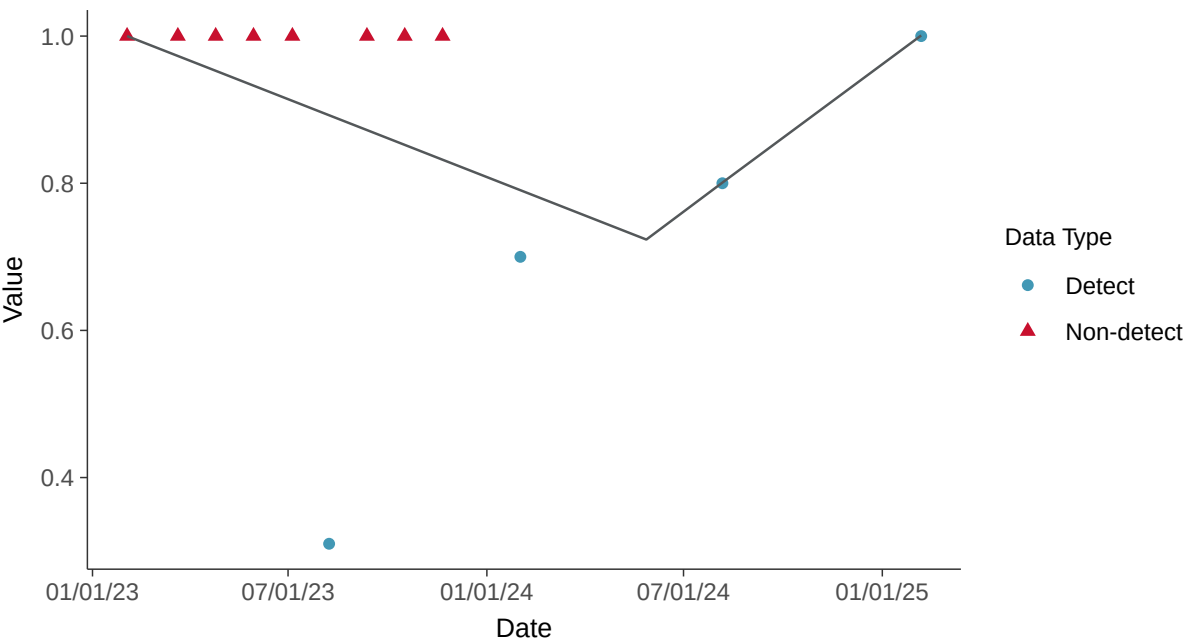
Normal Q-Q plot using ROS Imputed Estimates

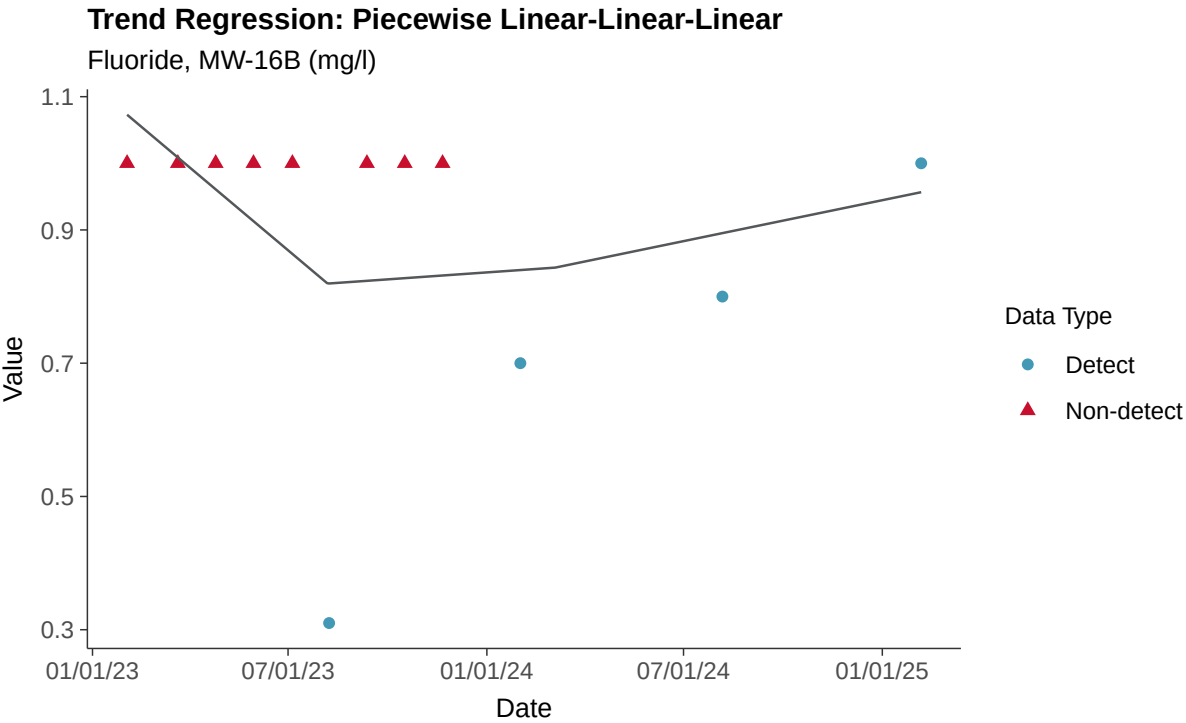
Fluoride, MW-16B (mg/l)



Trend Regression: Piecewise Linear-Linear

Fluoride, MW-16B (mg/l)

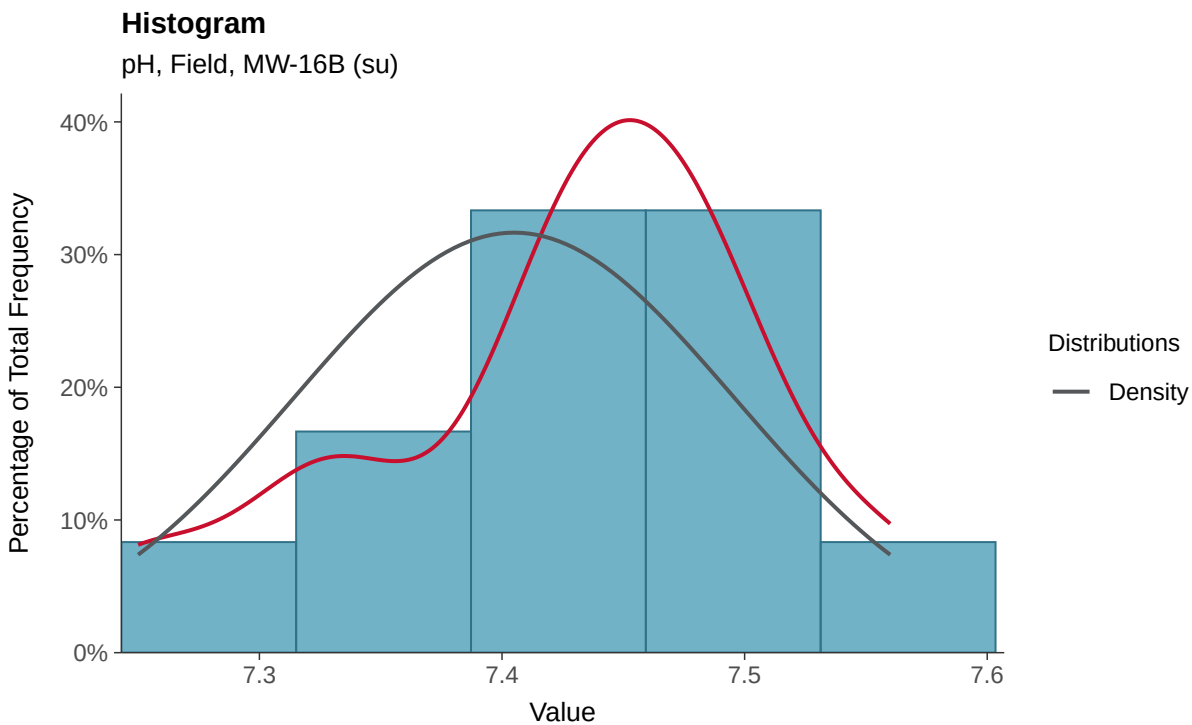
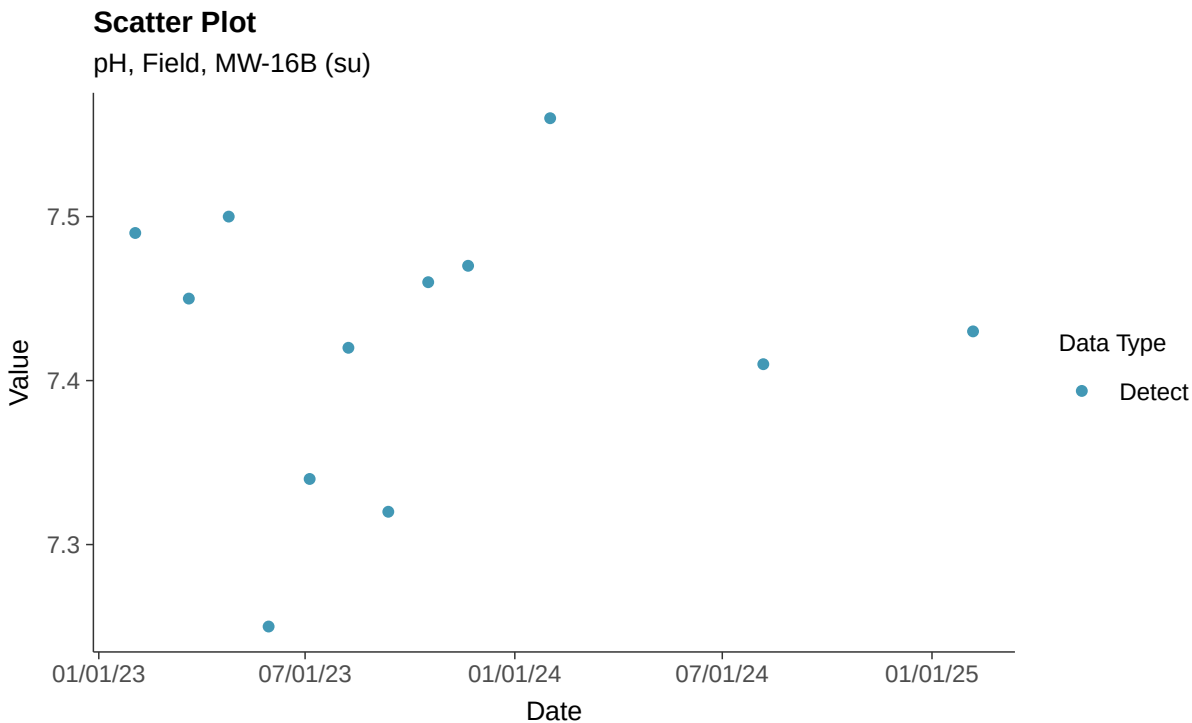


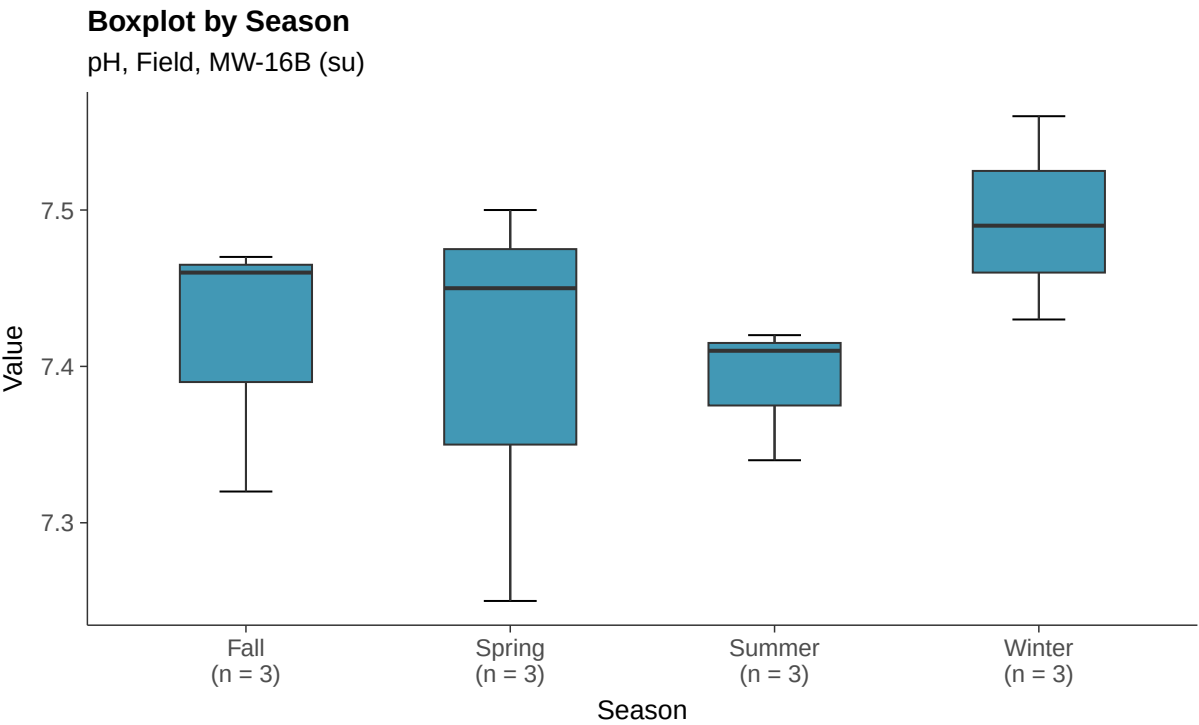
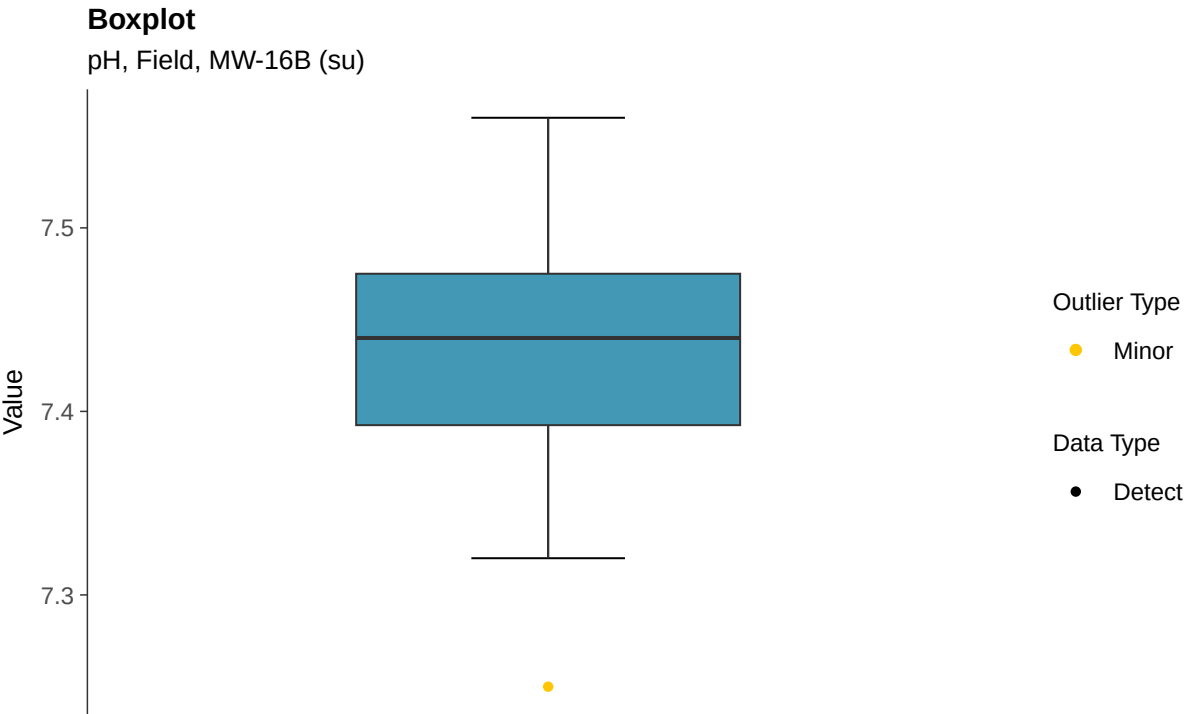


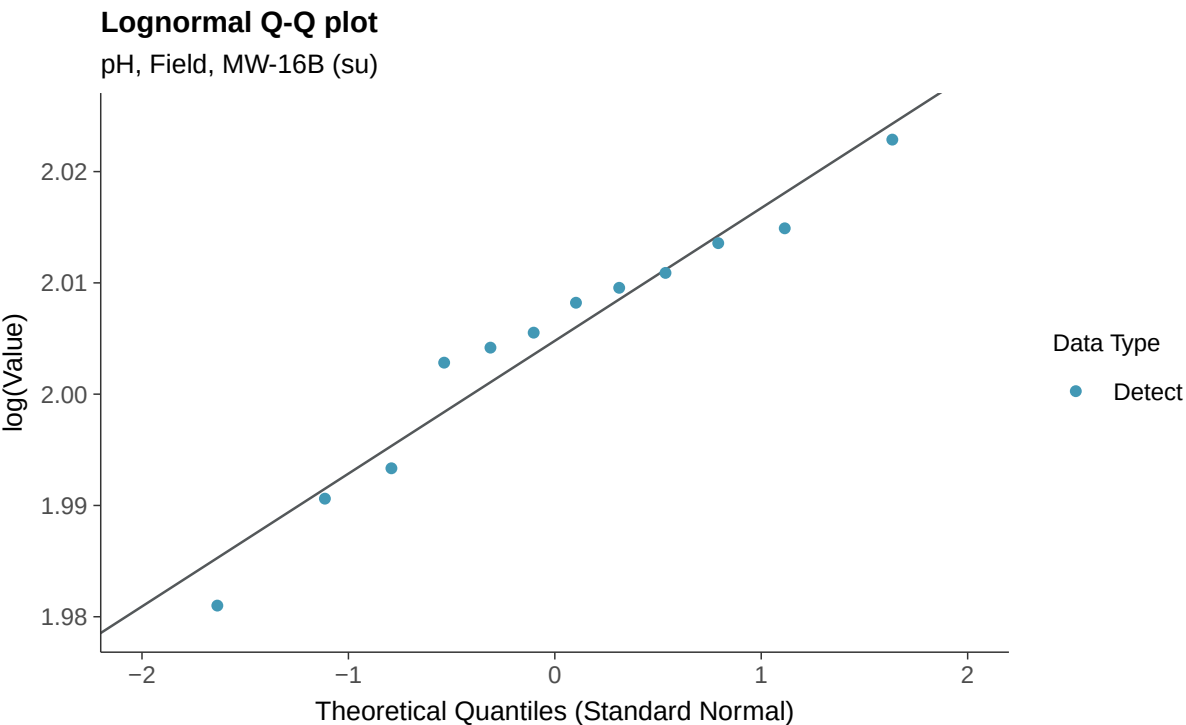
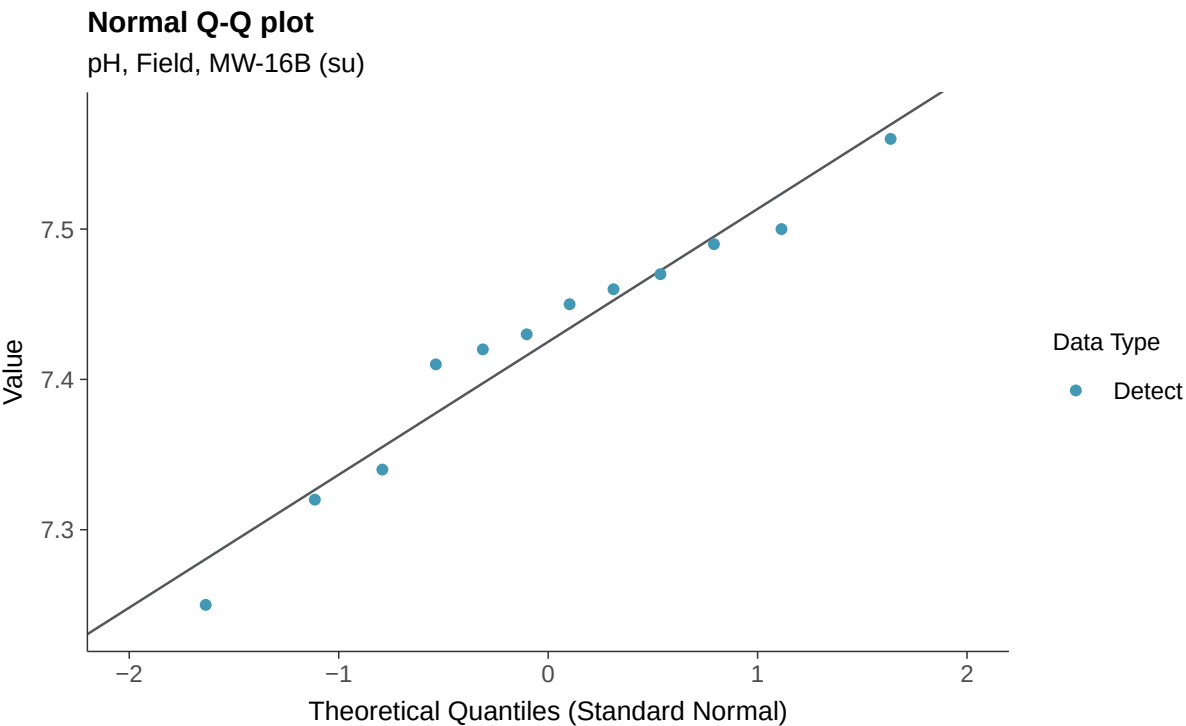


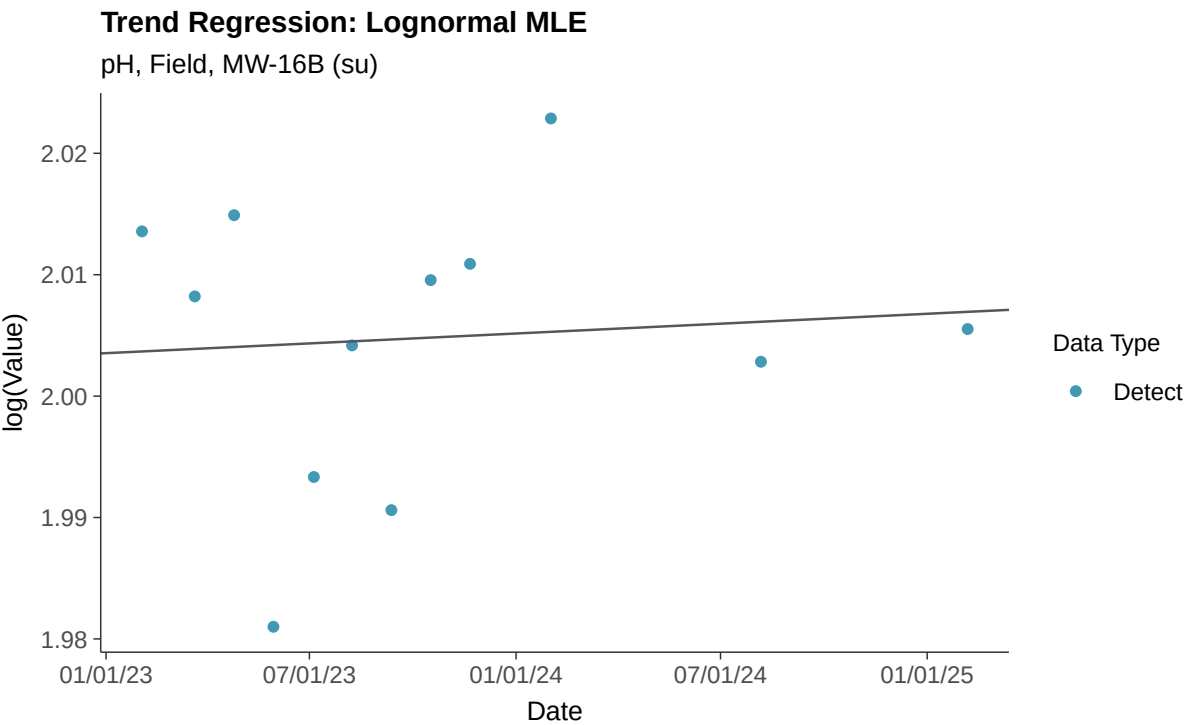
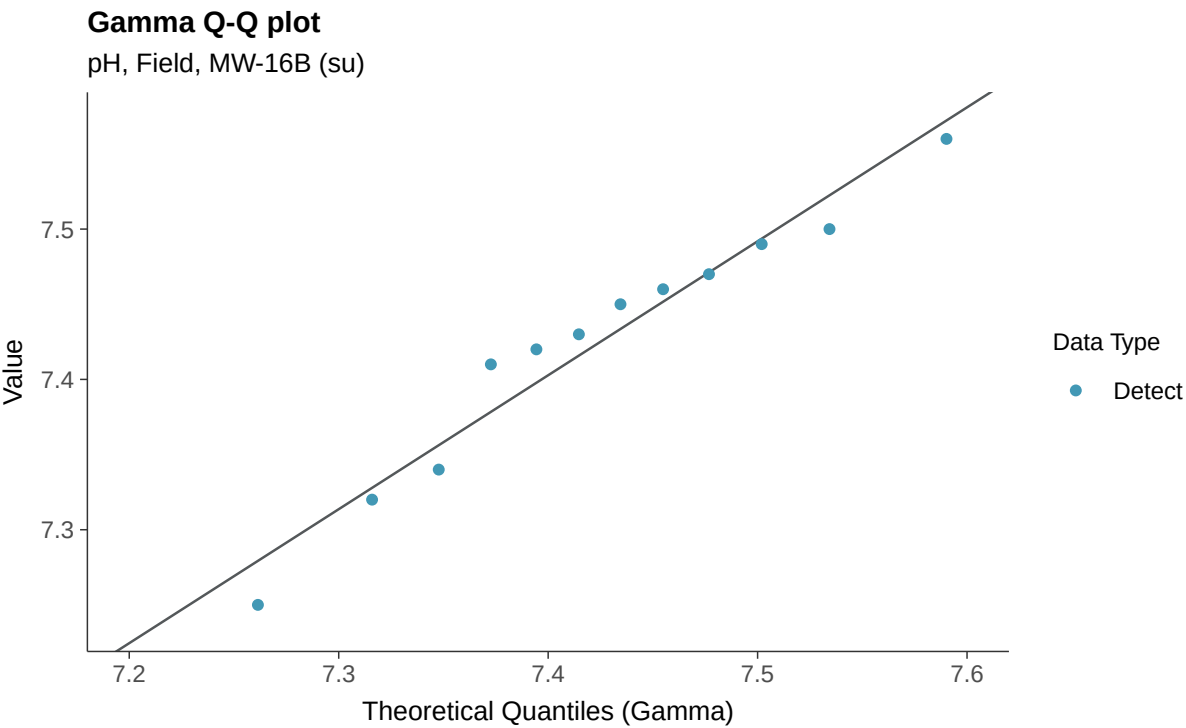
Appendix III: pH, Field, MW-16B

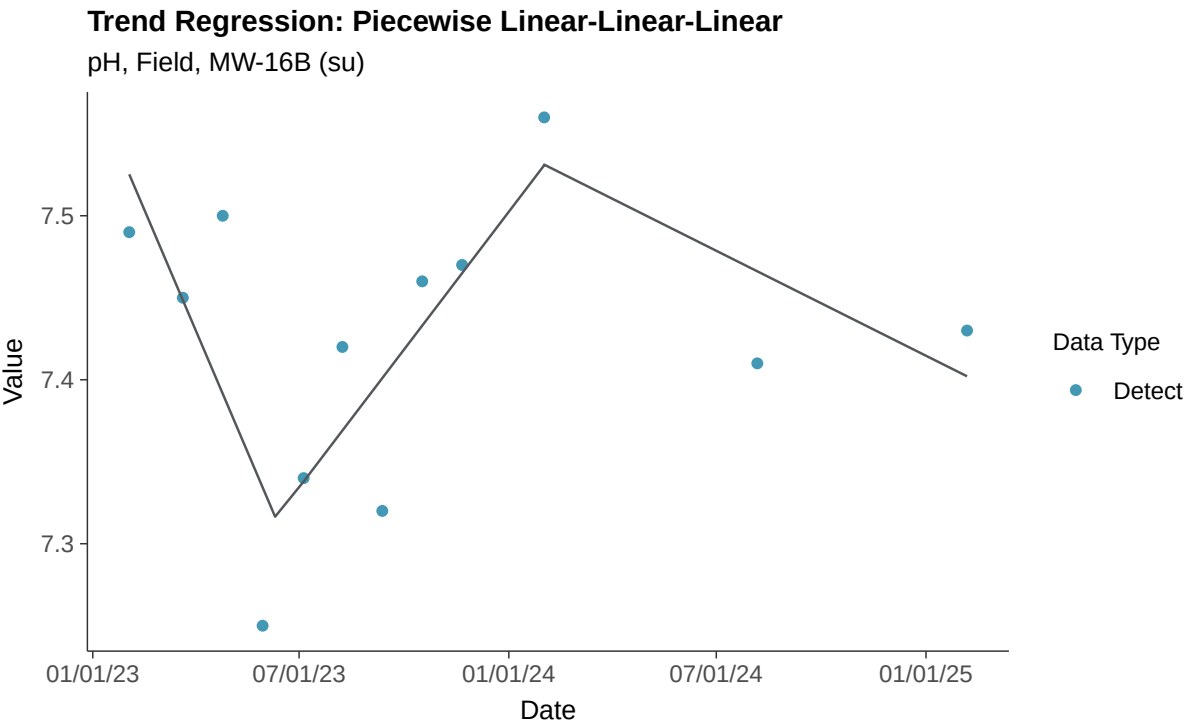
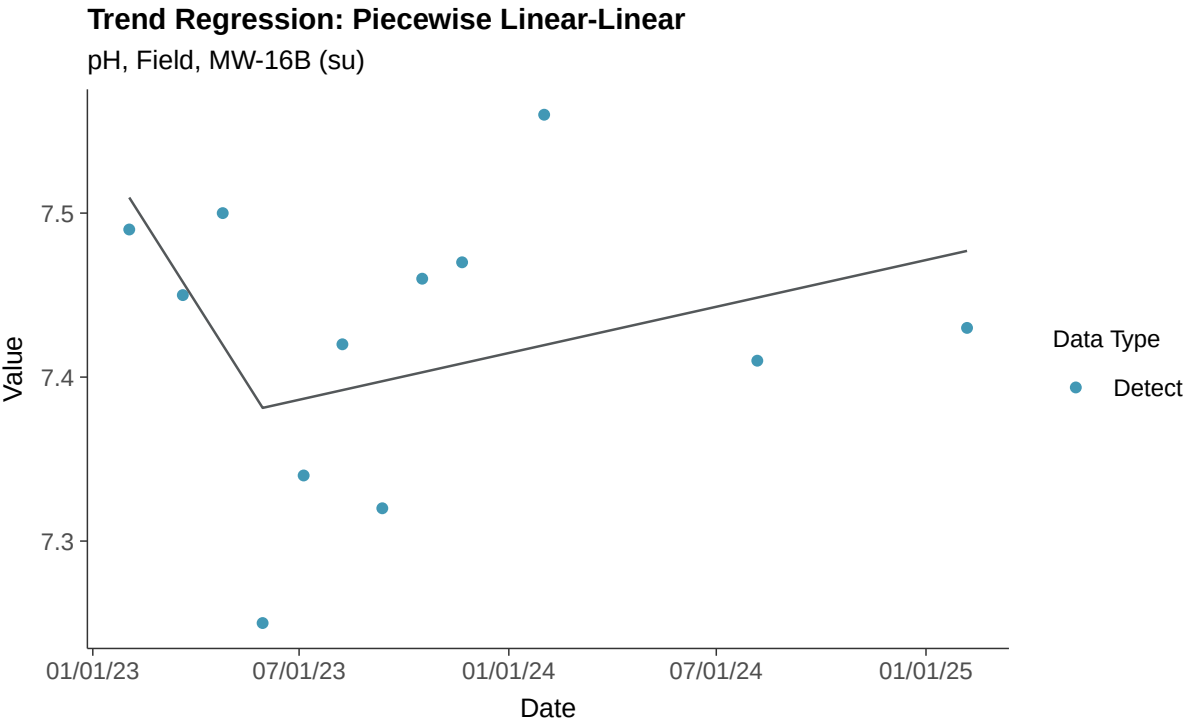
ID: 24_2_120







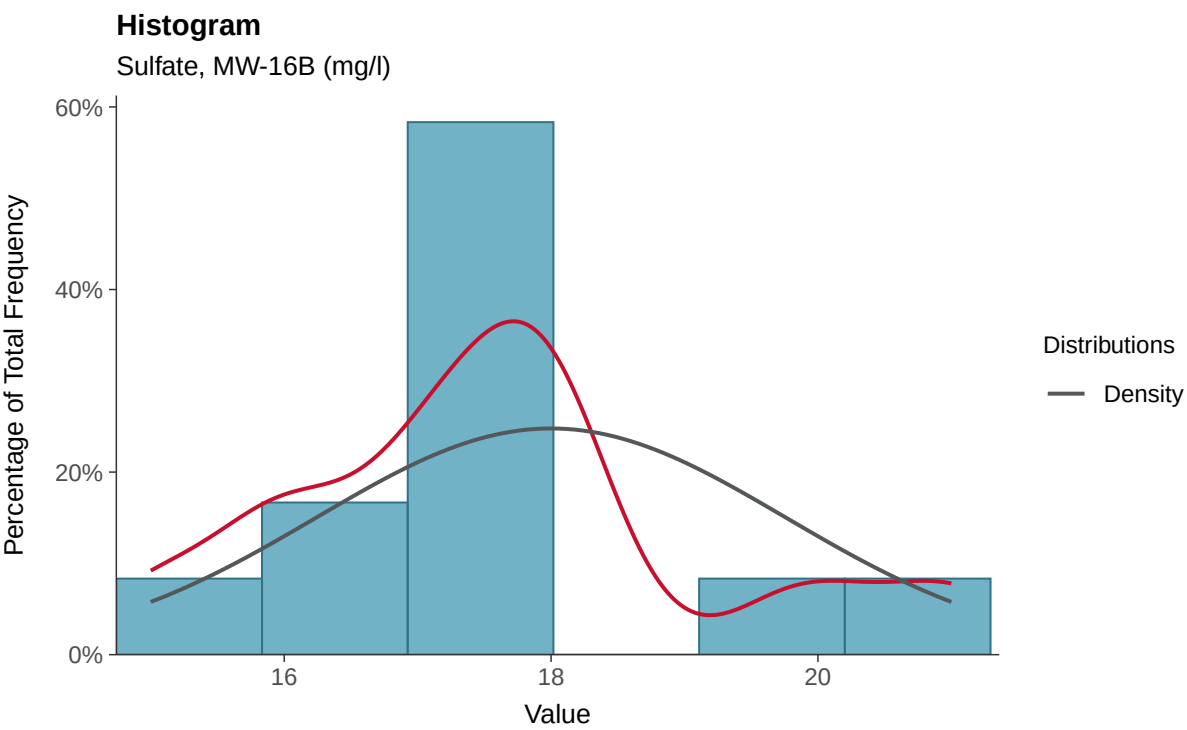
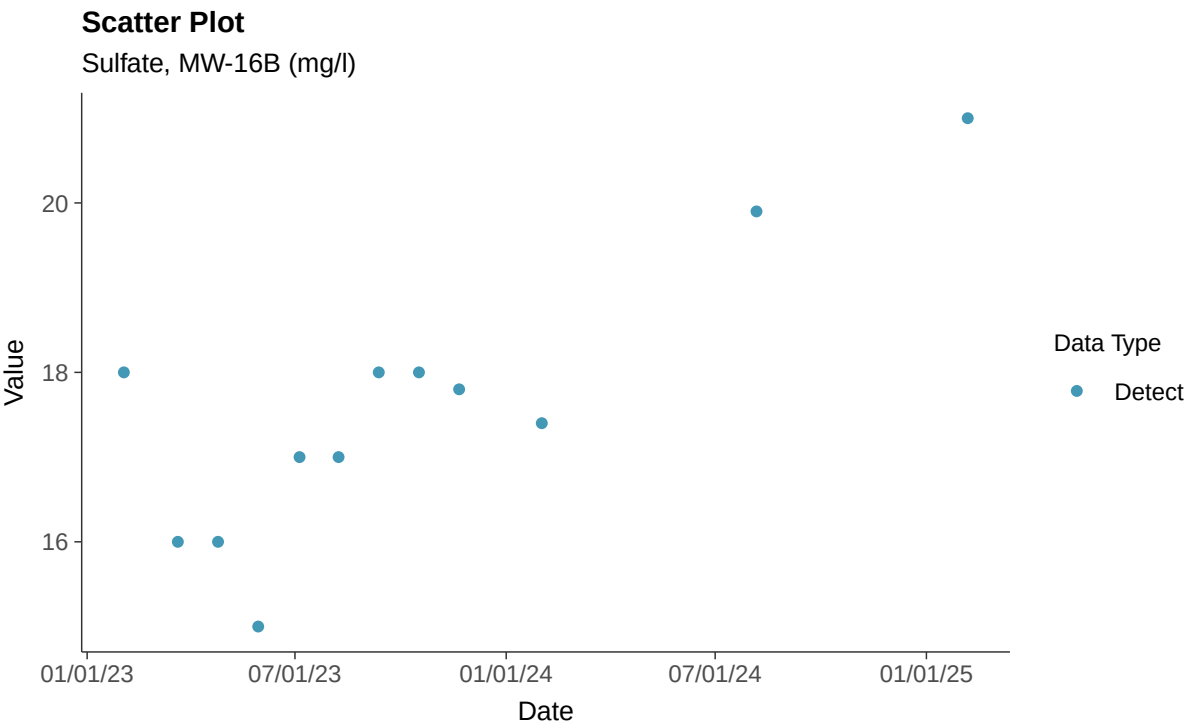


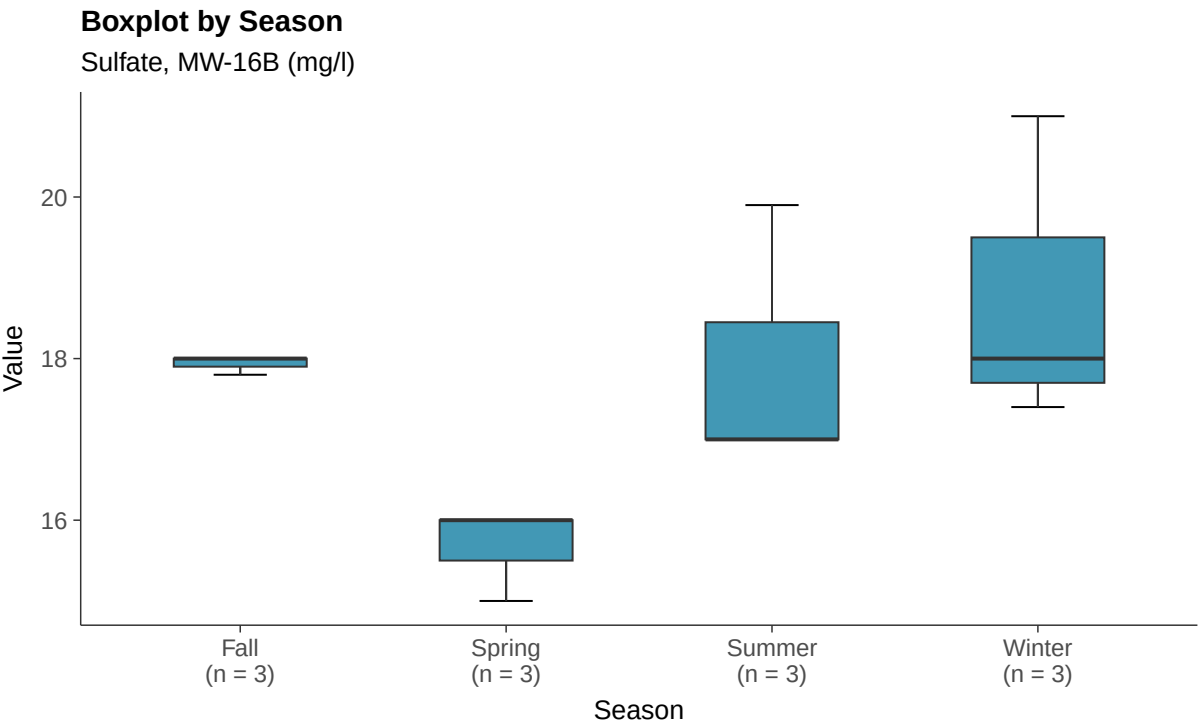
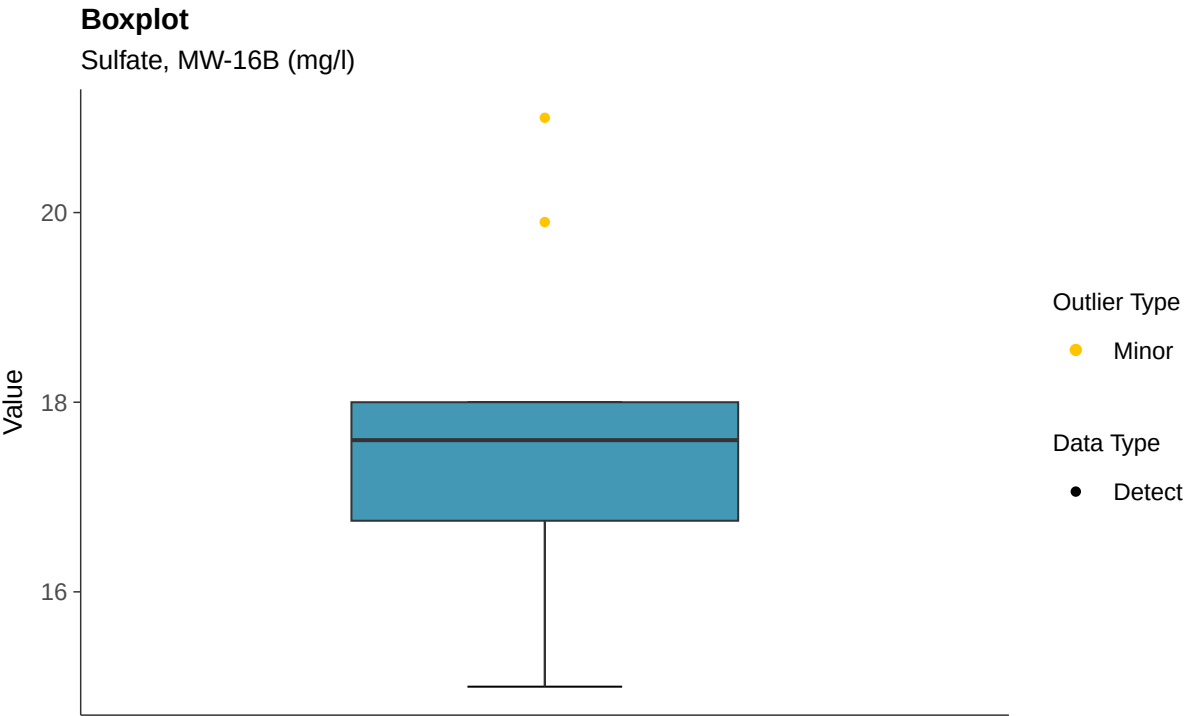


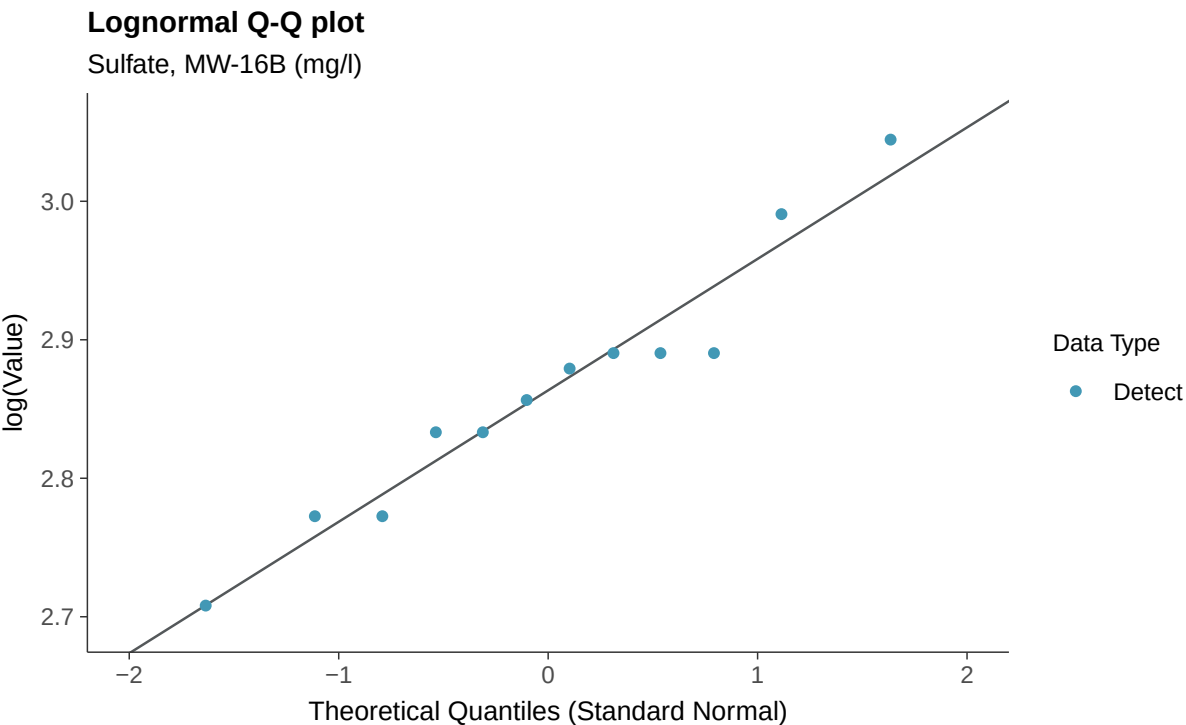
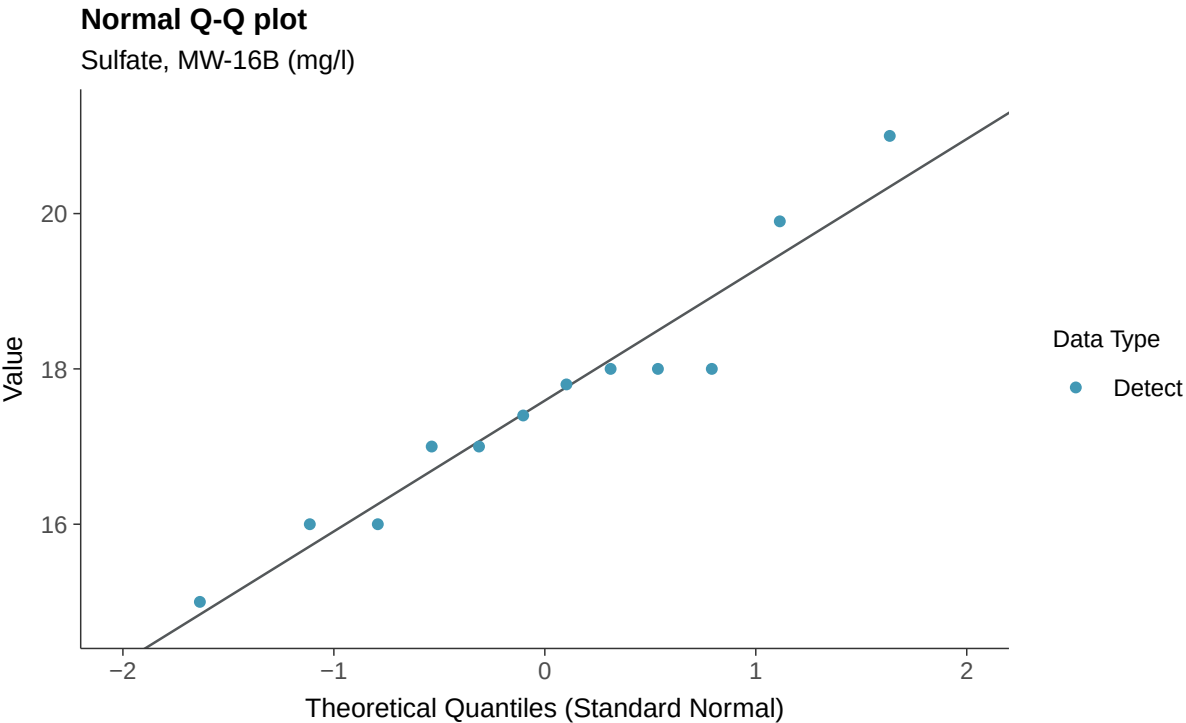


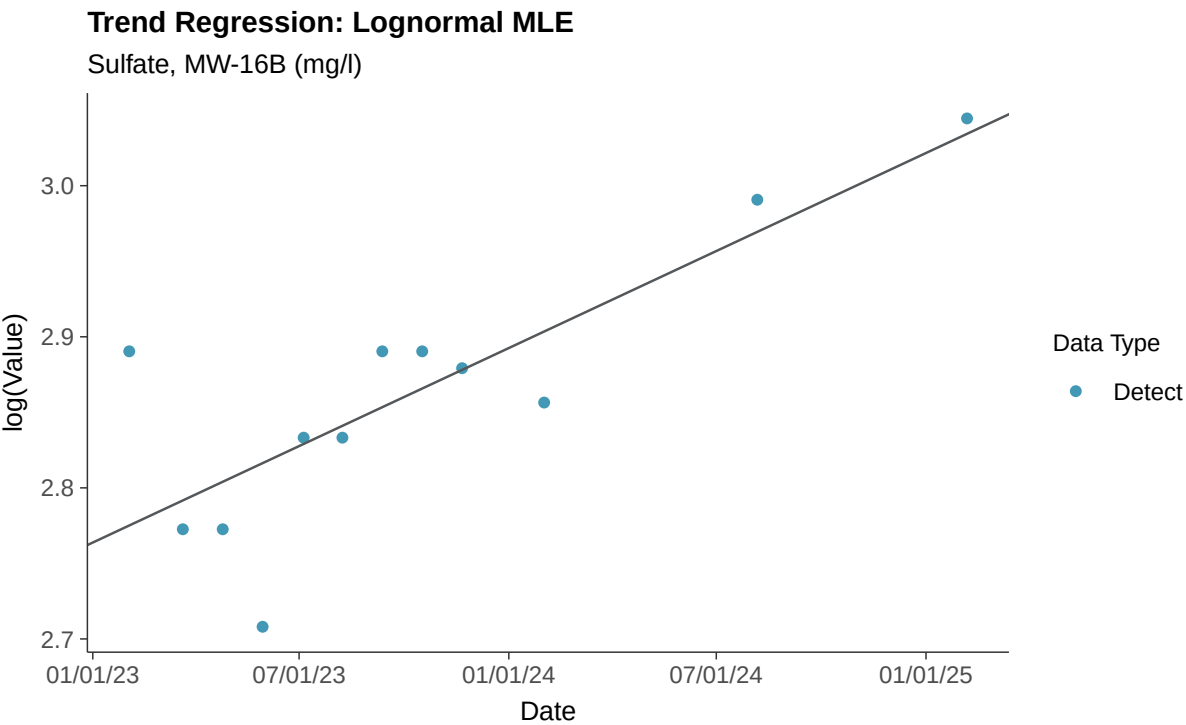
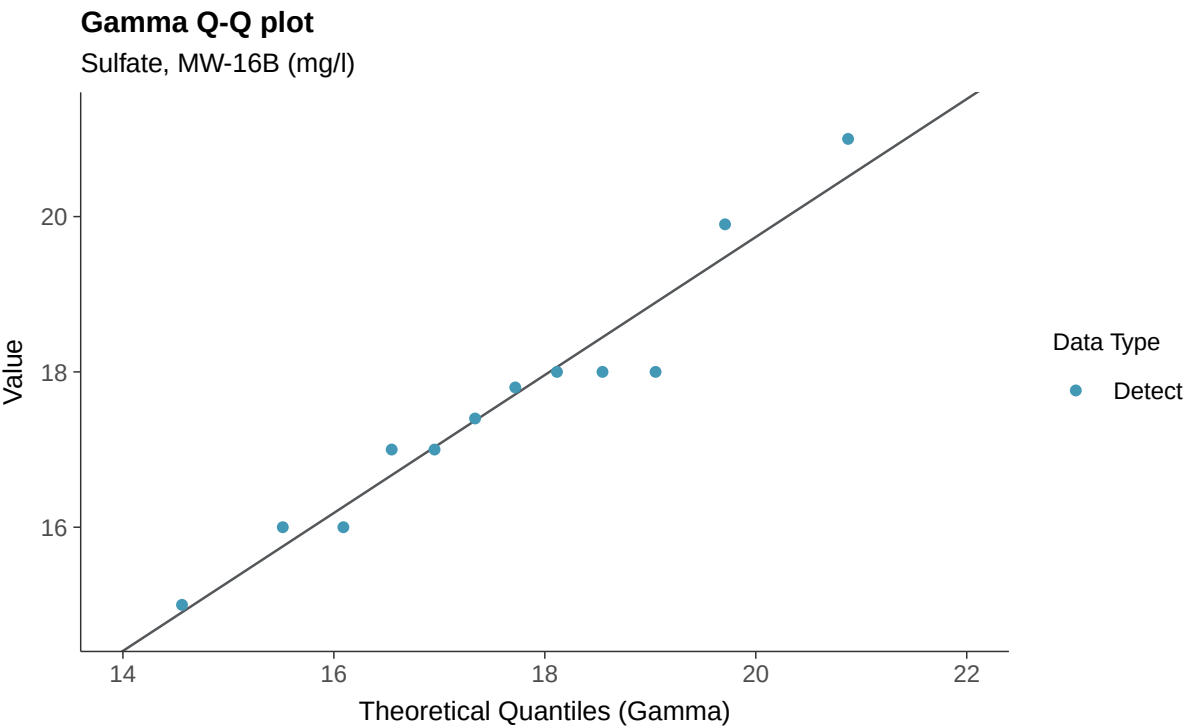
Appendix III: Sulfate, MW-16B

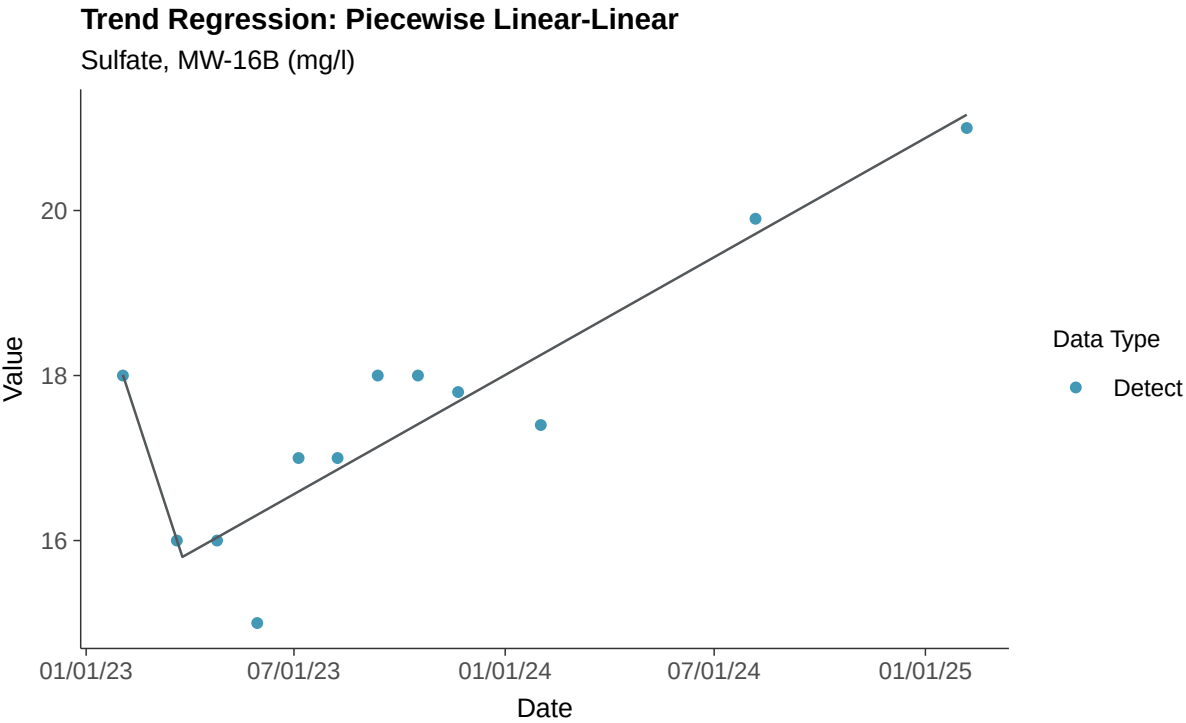
ID: 24_2_124







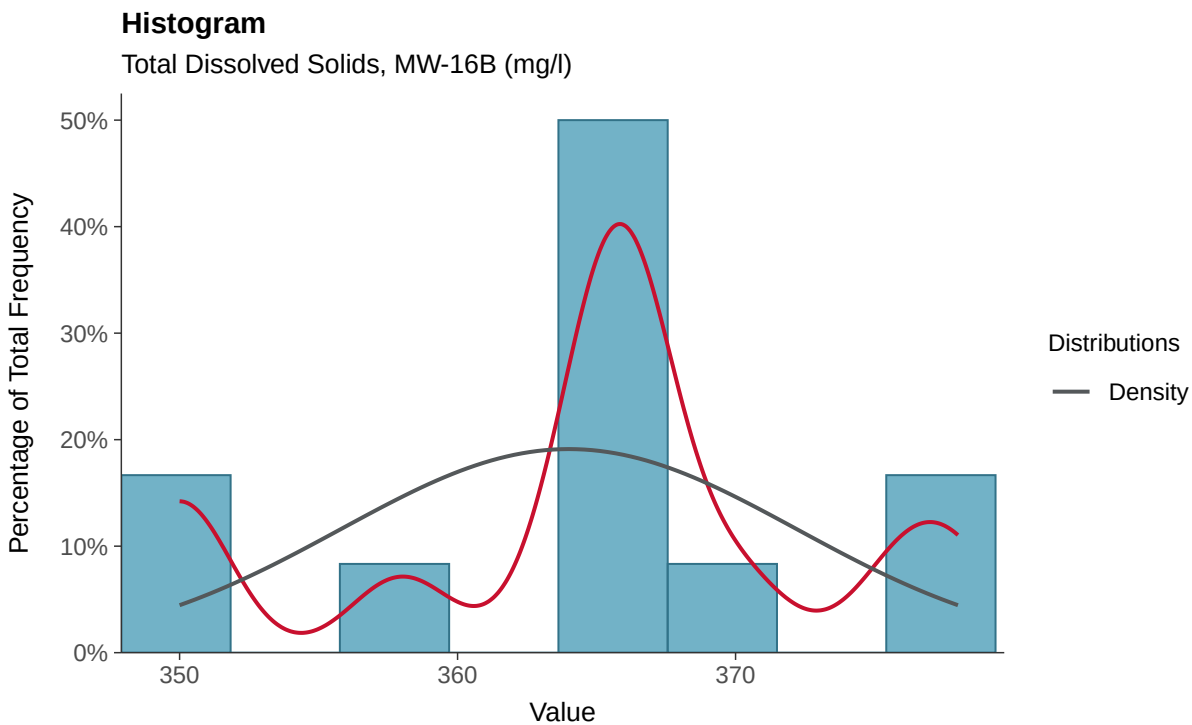
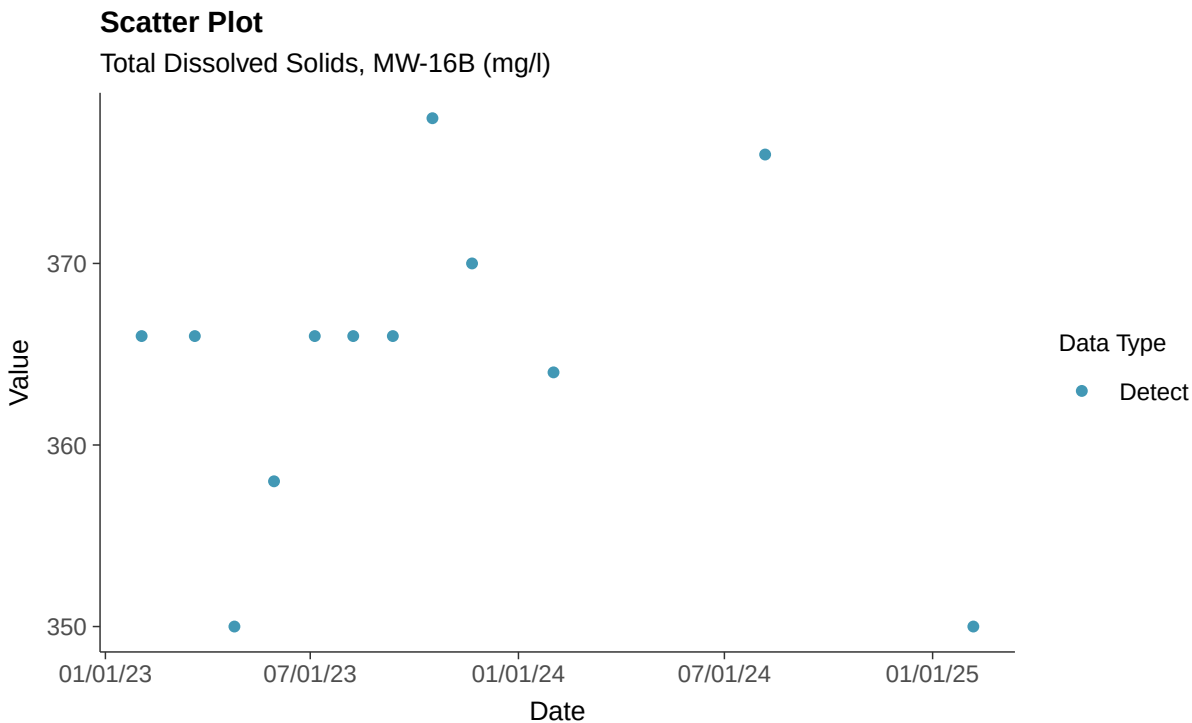


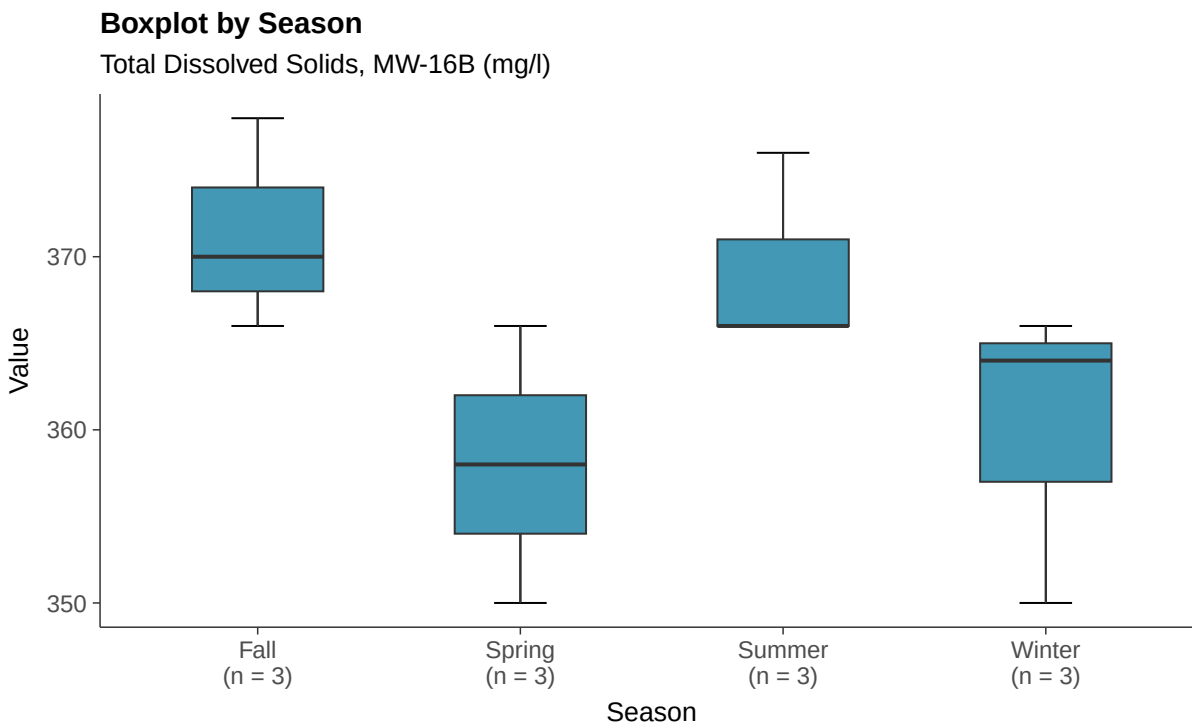
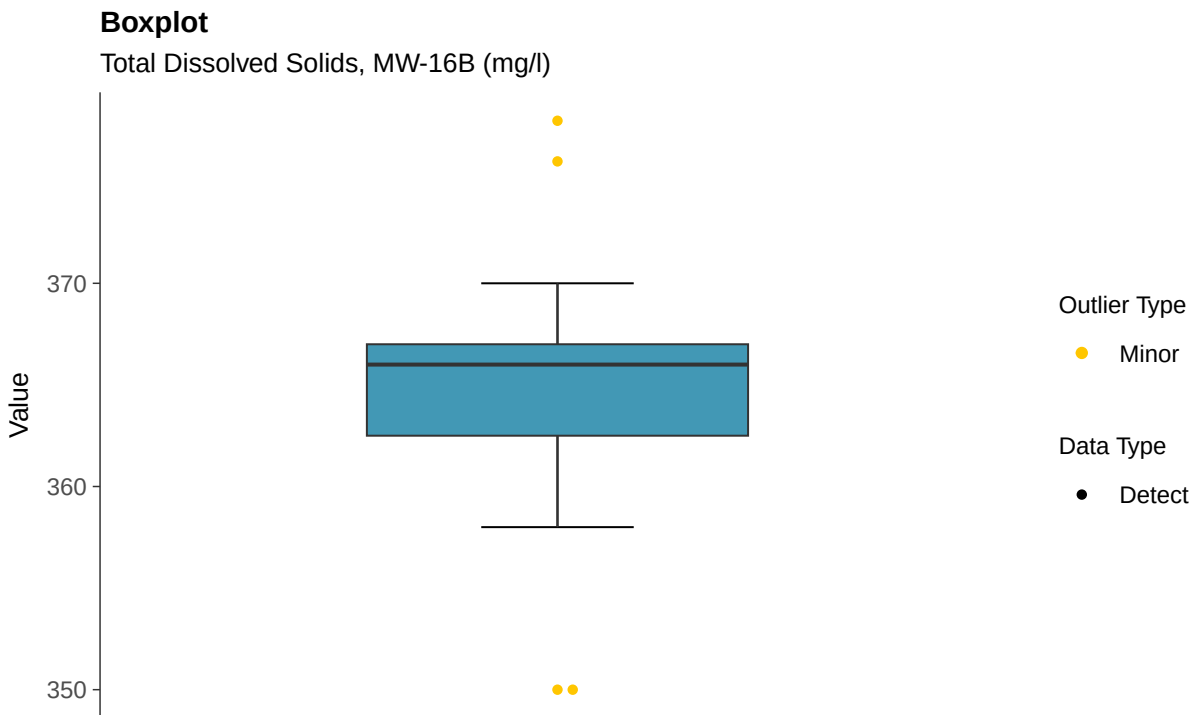


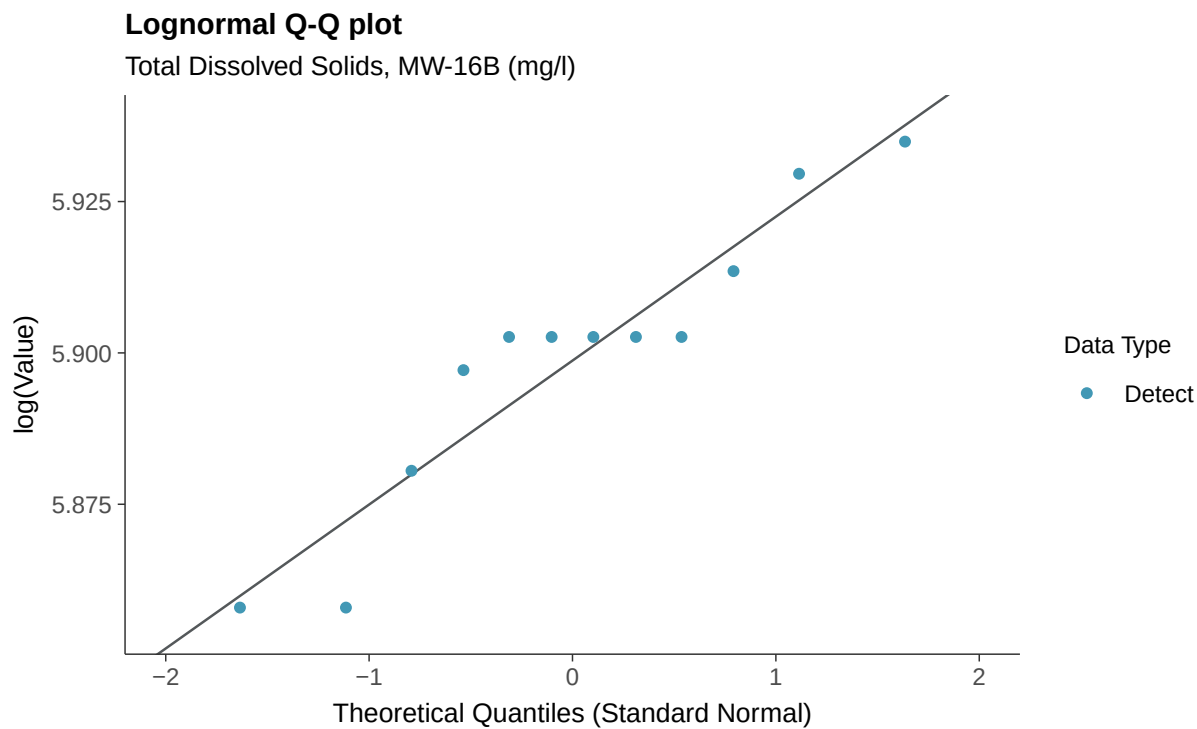
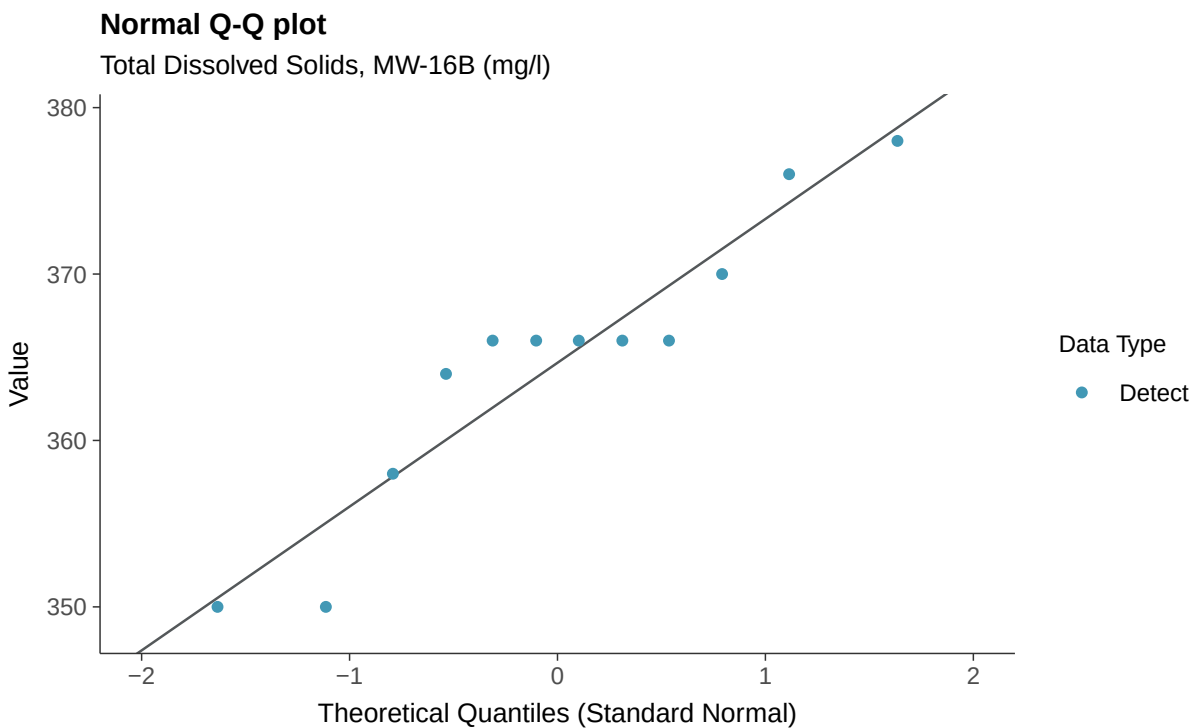


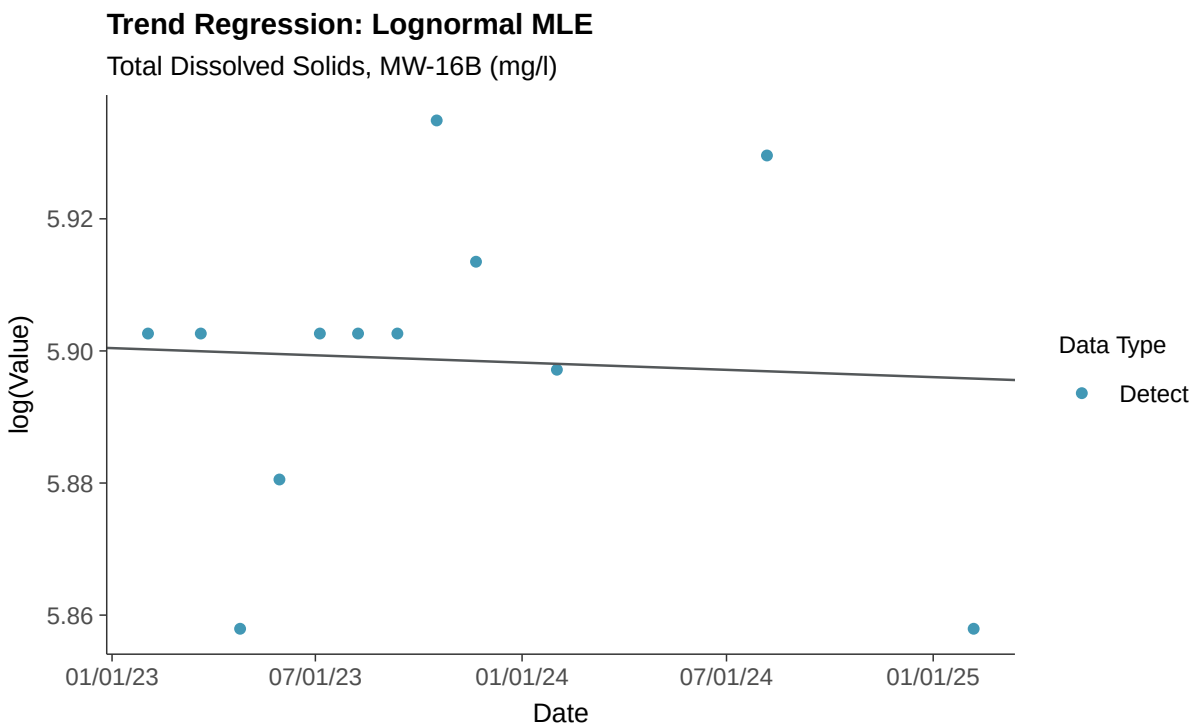
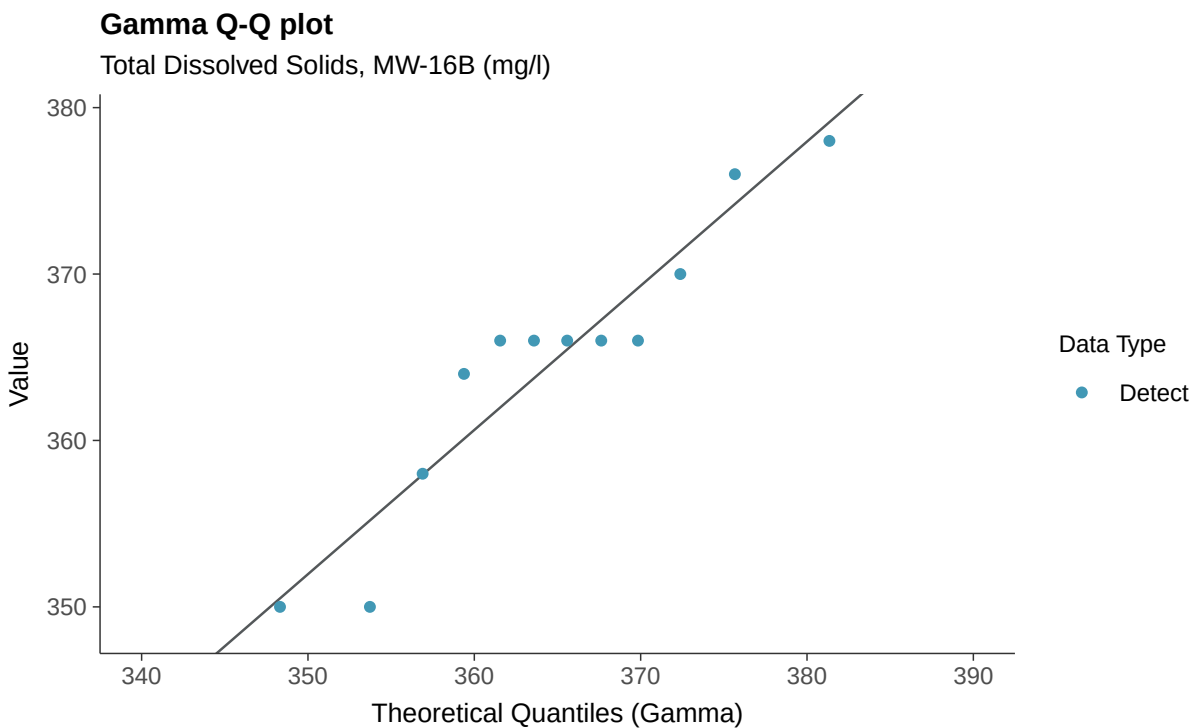
Appendix III: Total Dissolved Solids, MW-16B

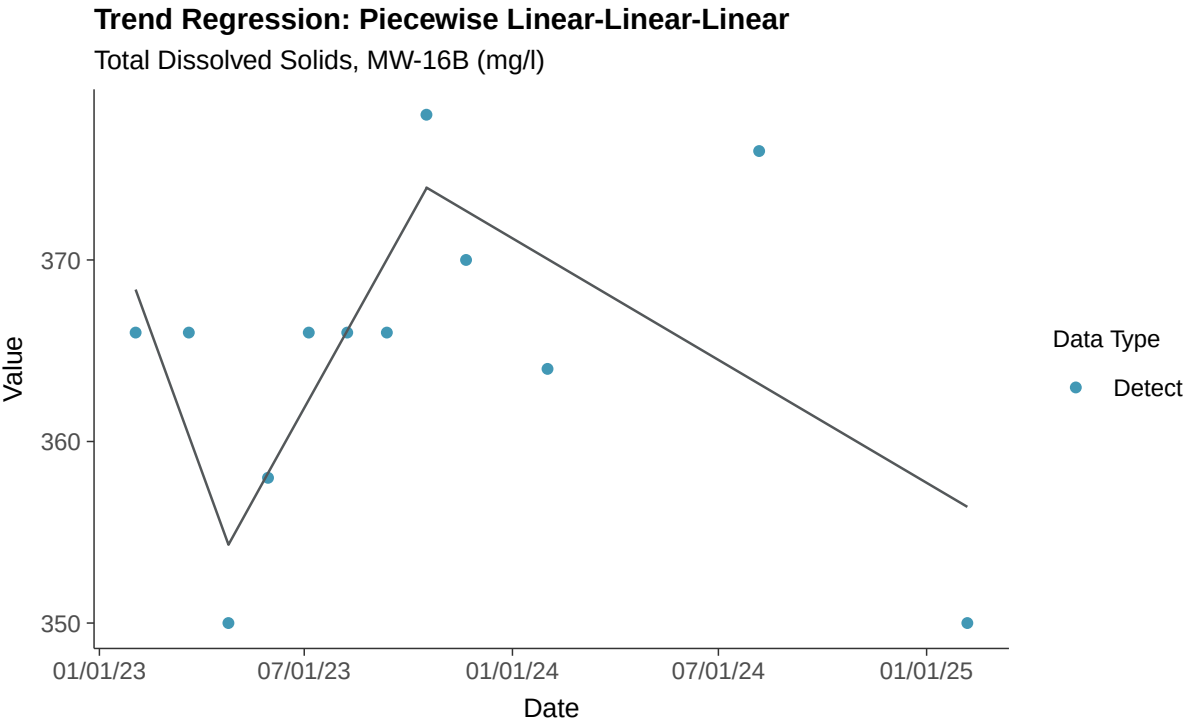
ID: 24_2_126







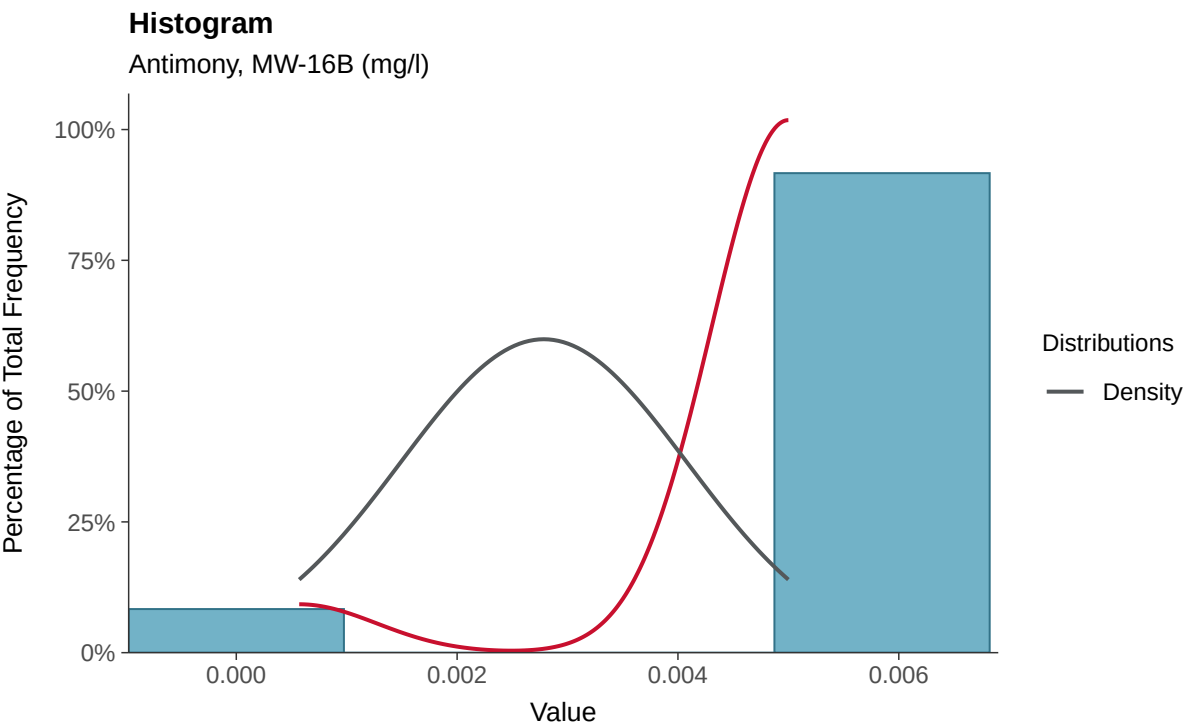
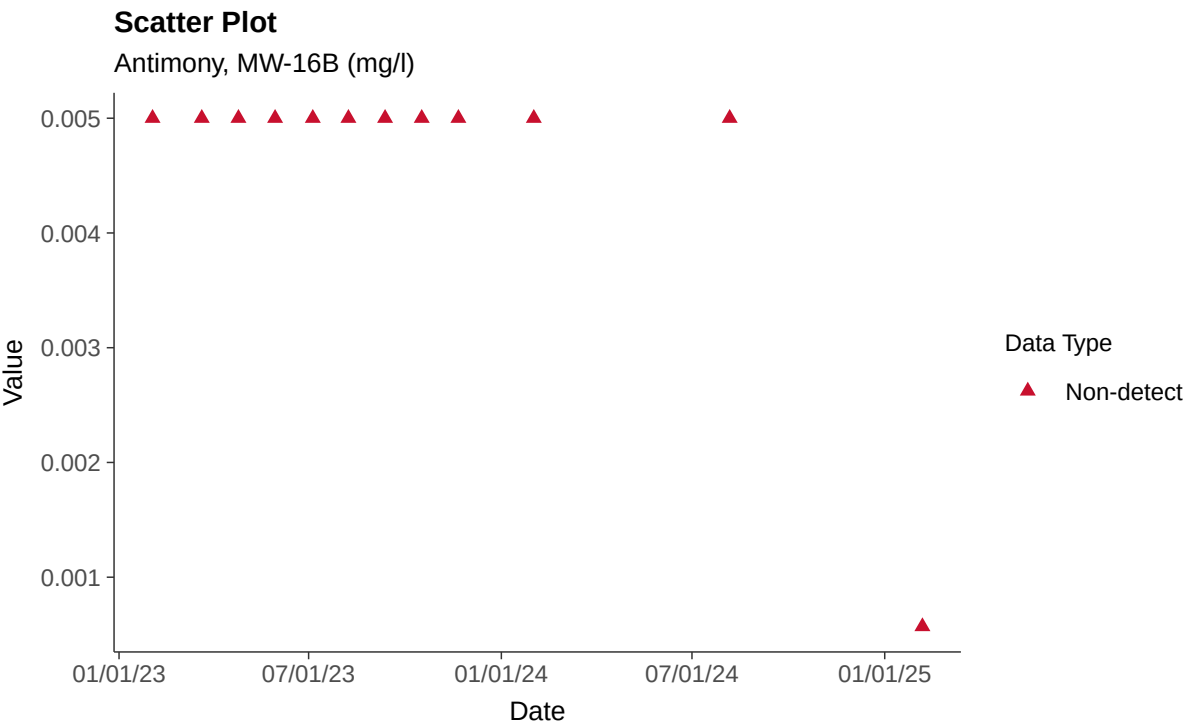


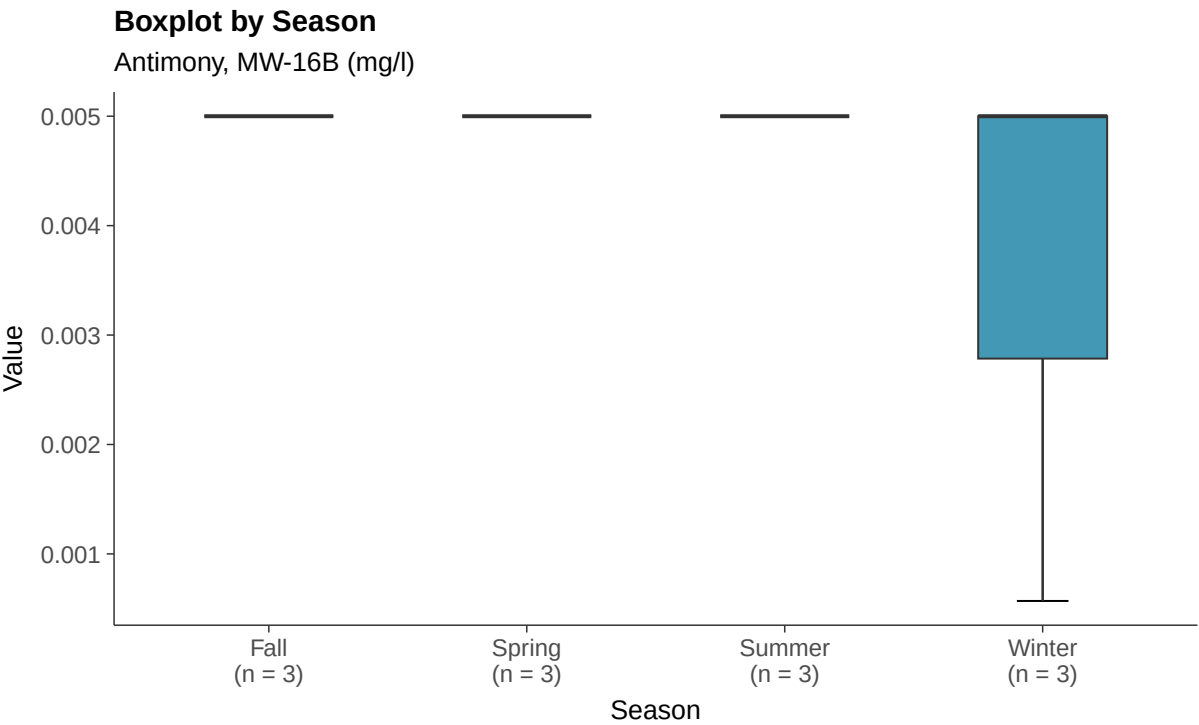
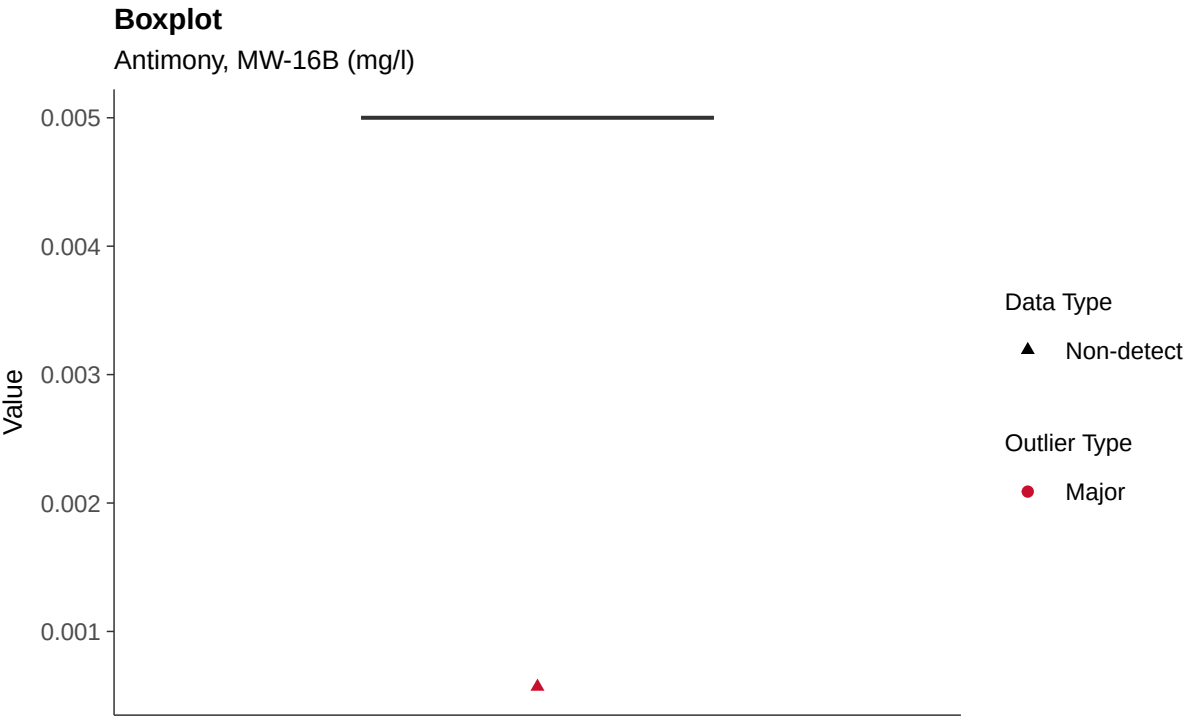




Appendix IV: Antimony, MW-16B

ID: 24_3_101

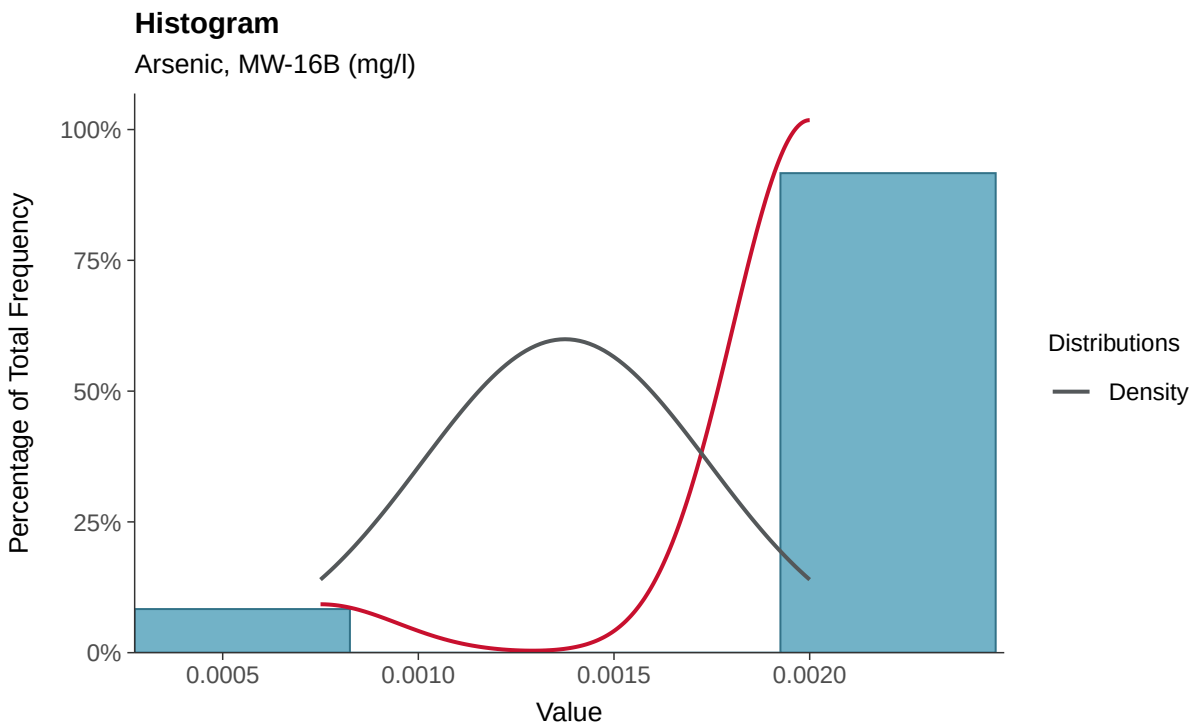
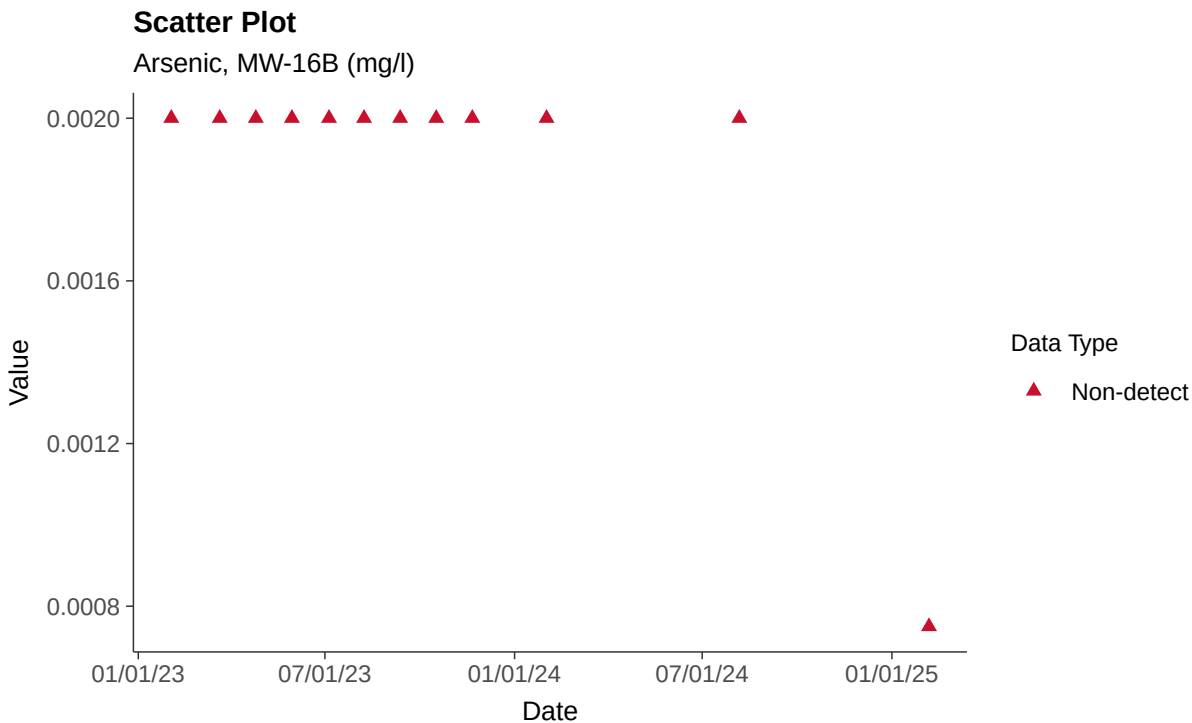


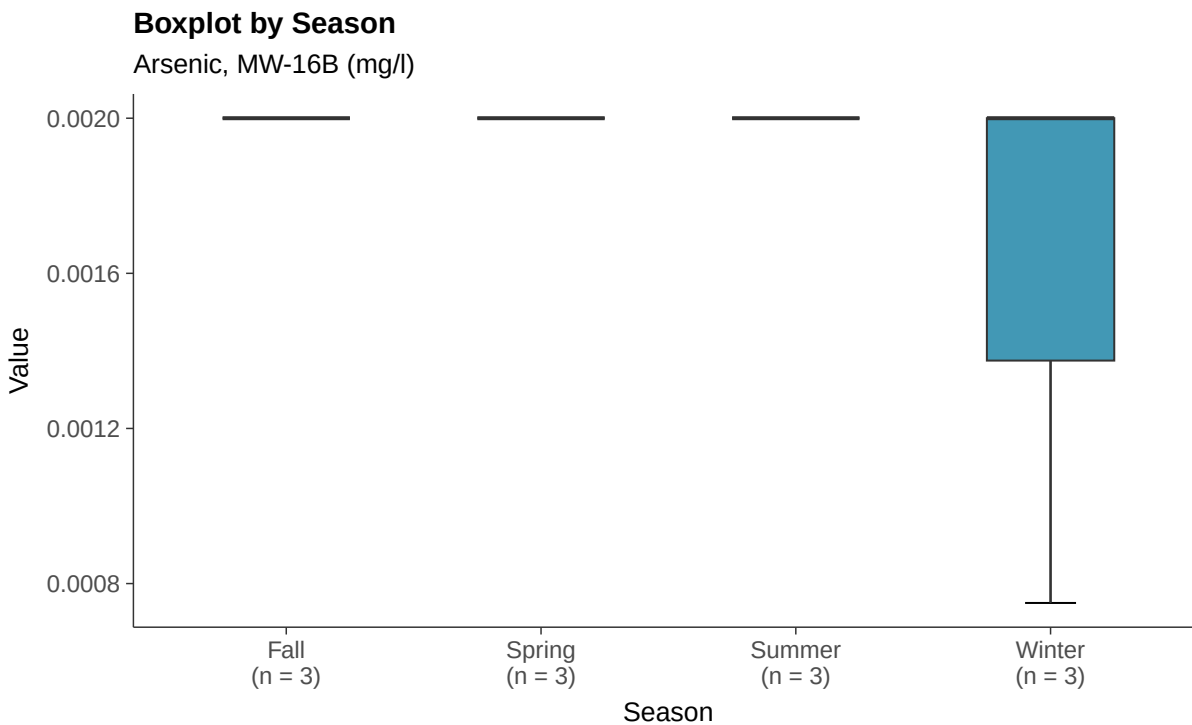
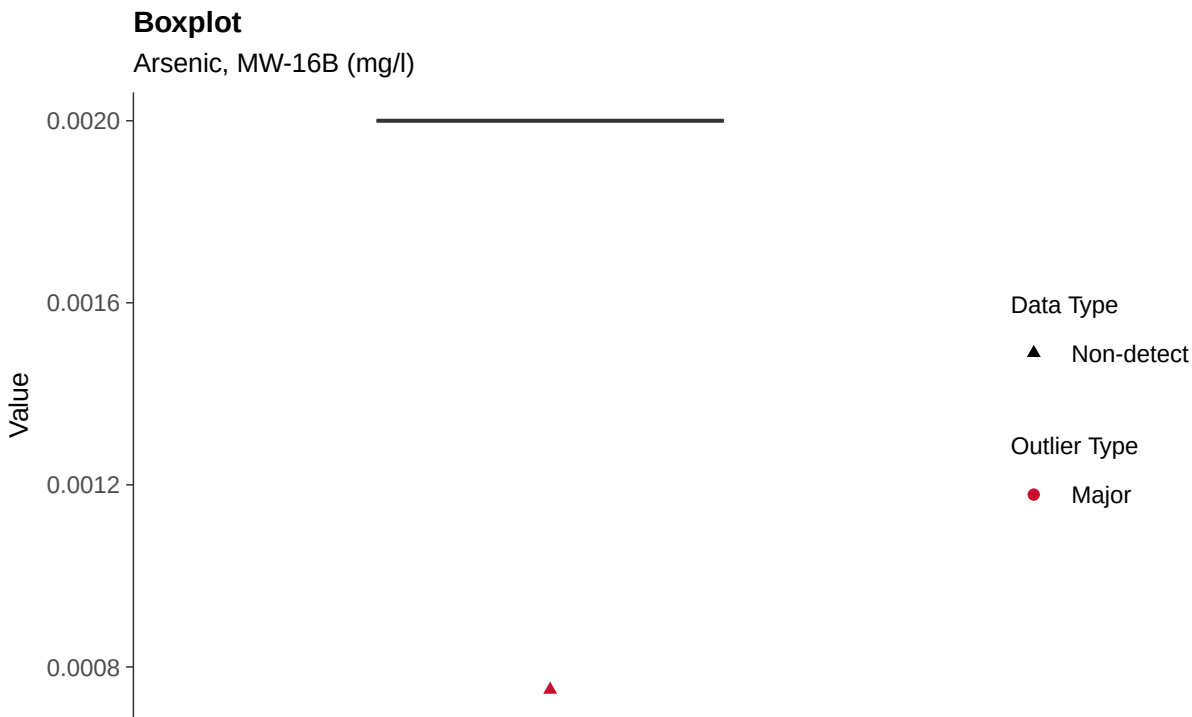




Appendix IV: Arsenic, MW-16B

ID: 24_3_102

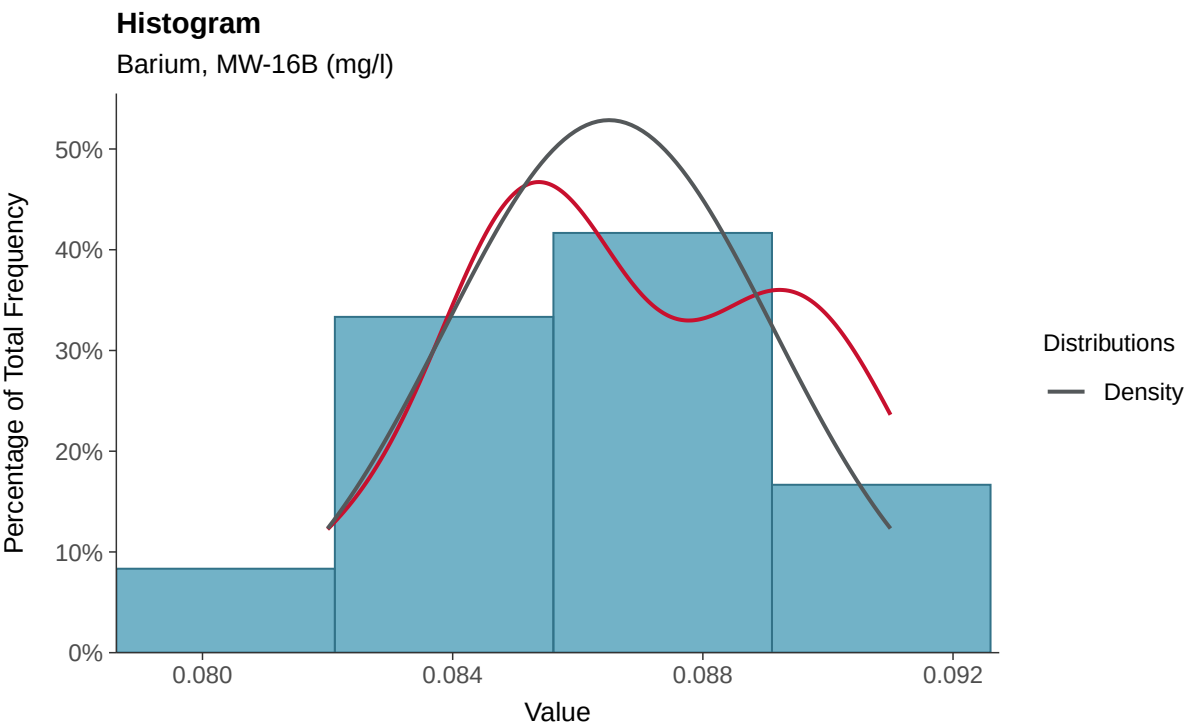
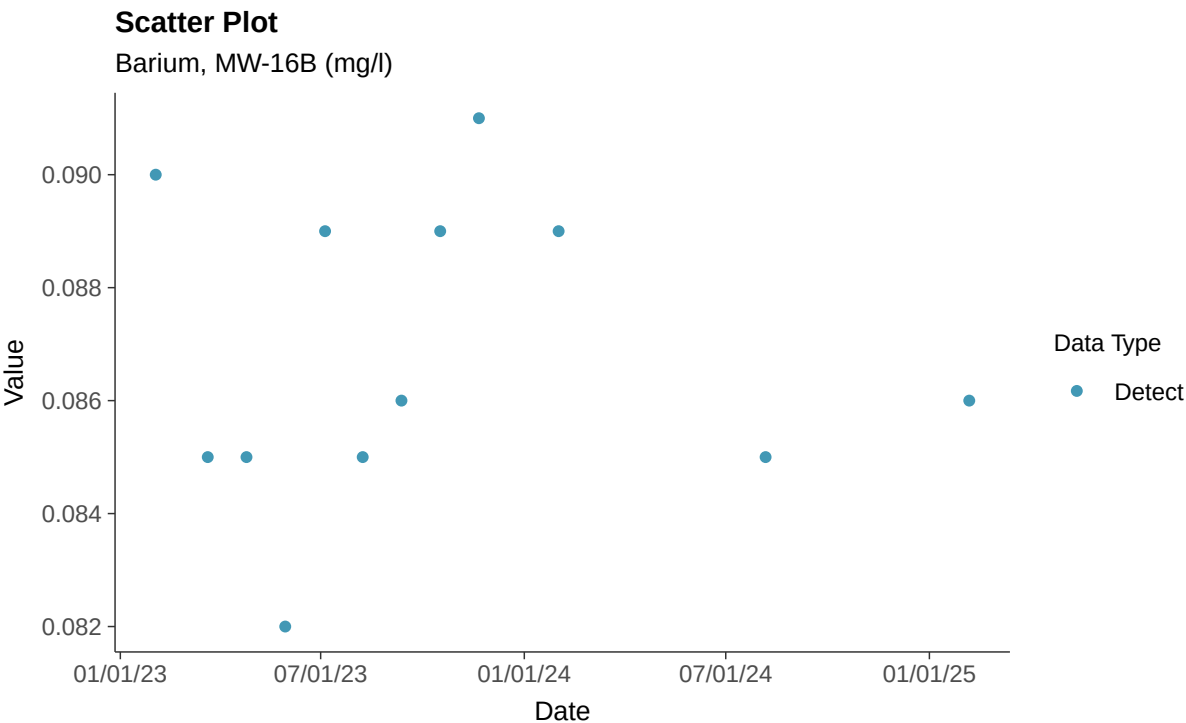


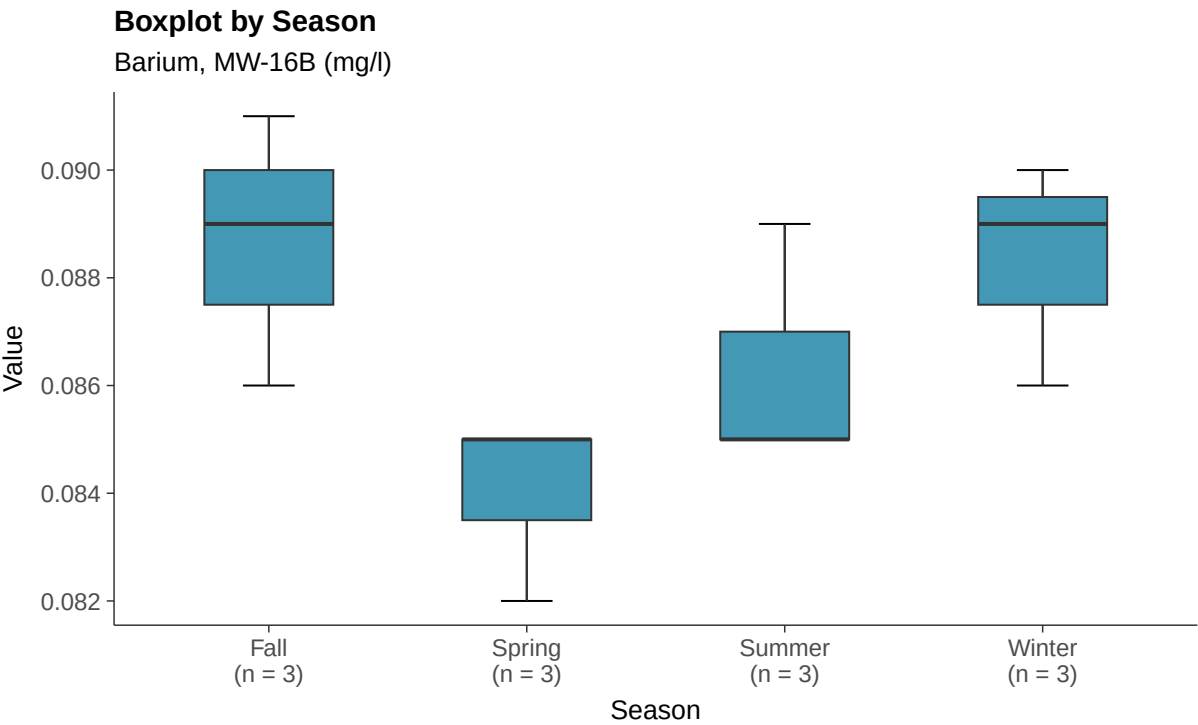
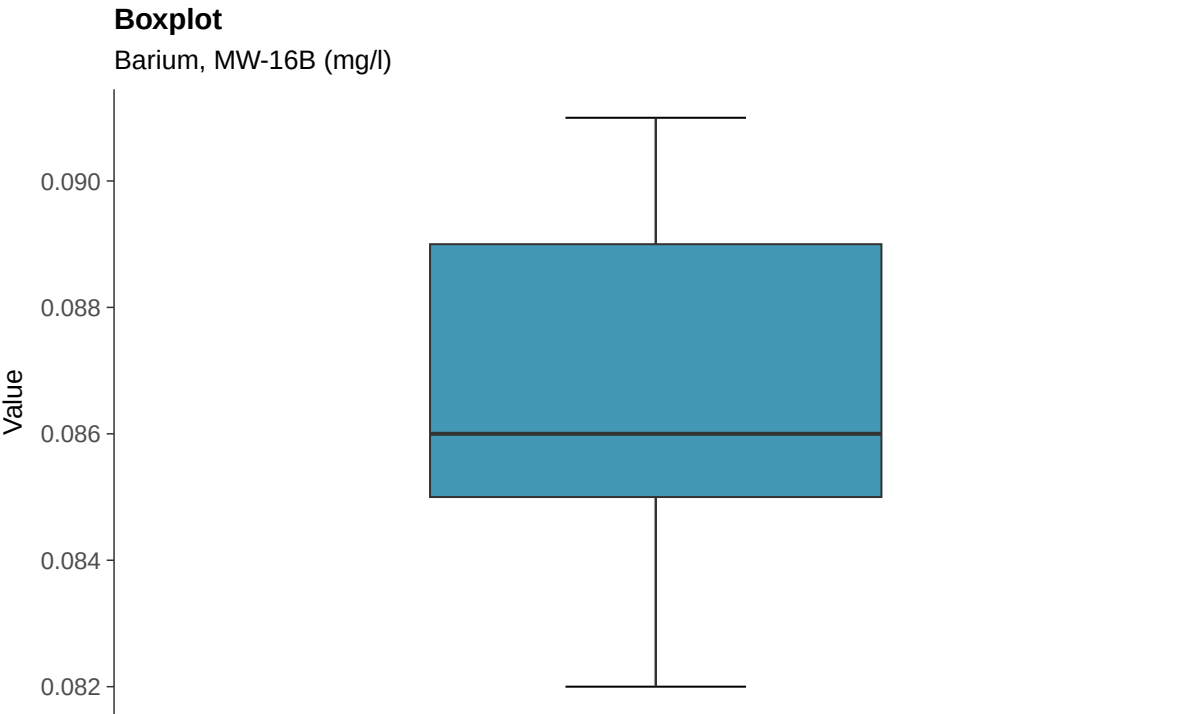


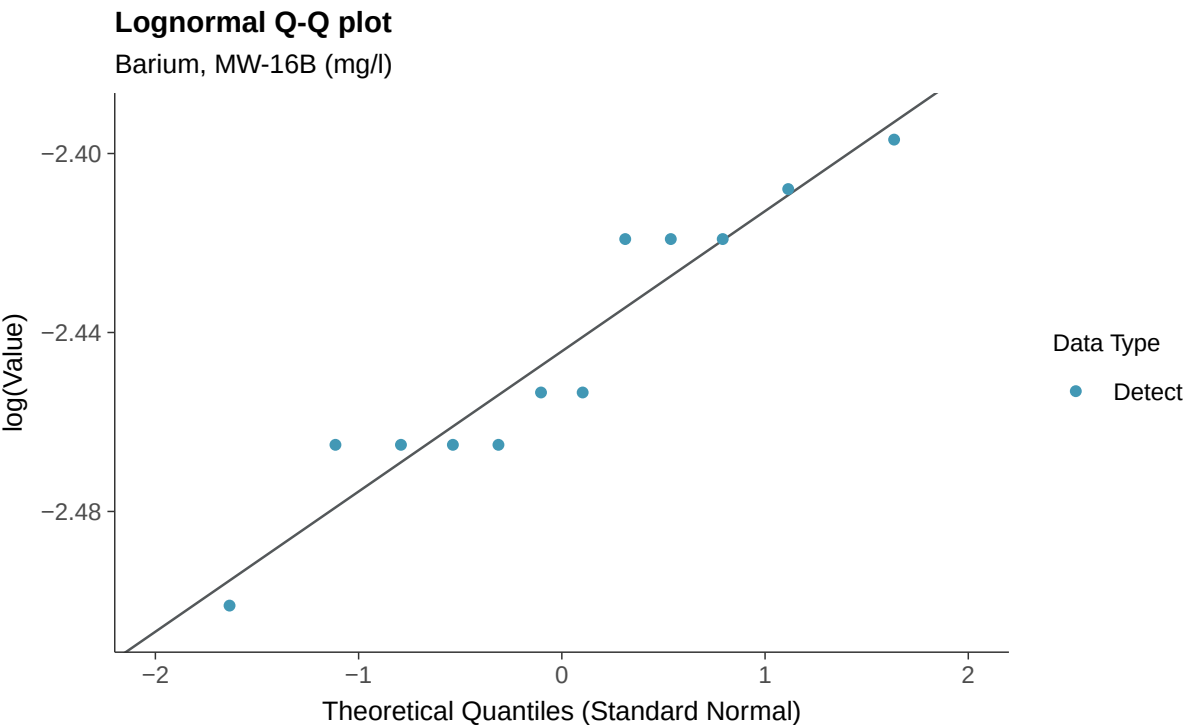
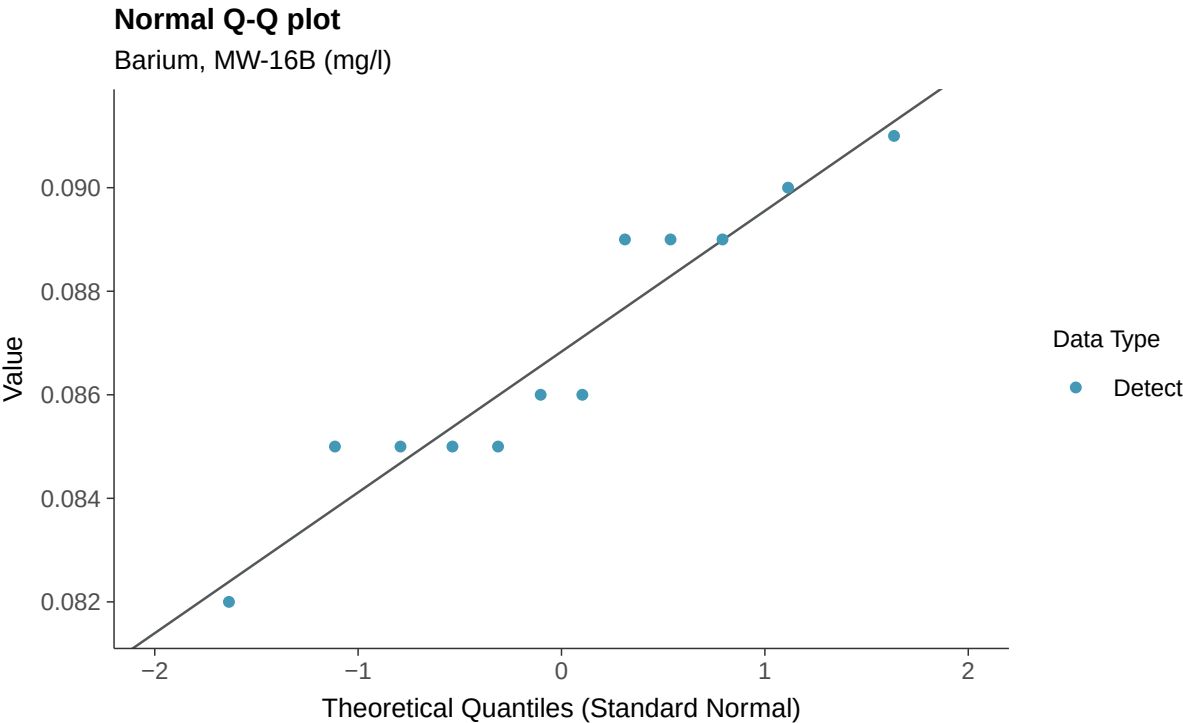


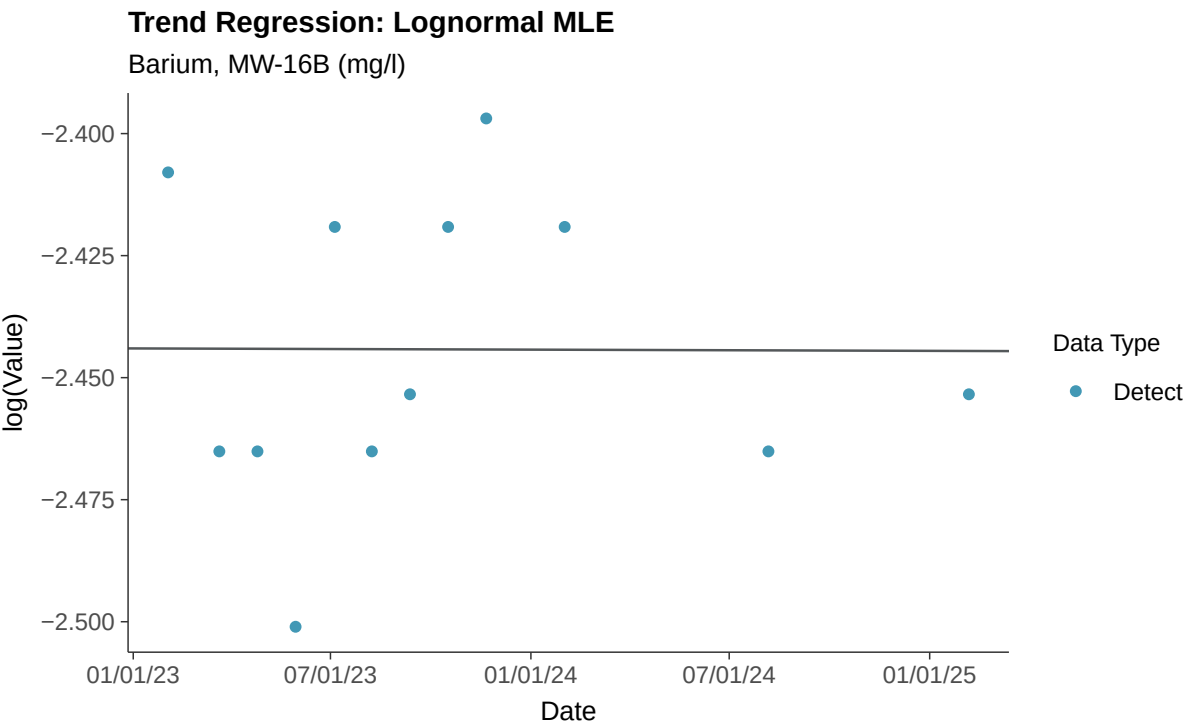
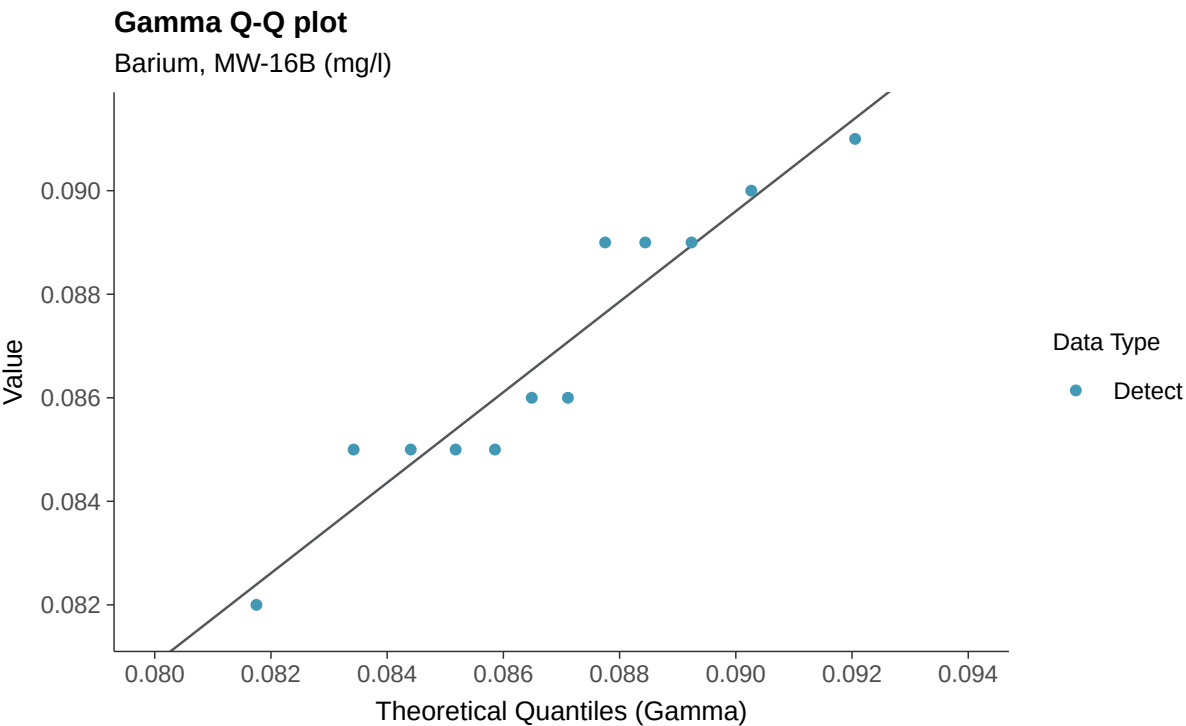
Appendix IV: Barium, MW-16B

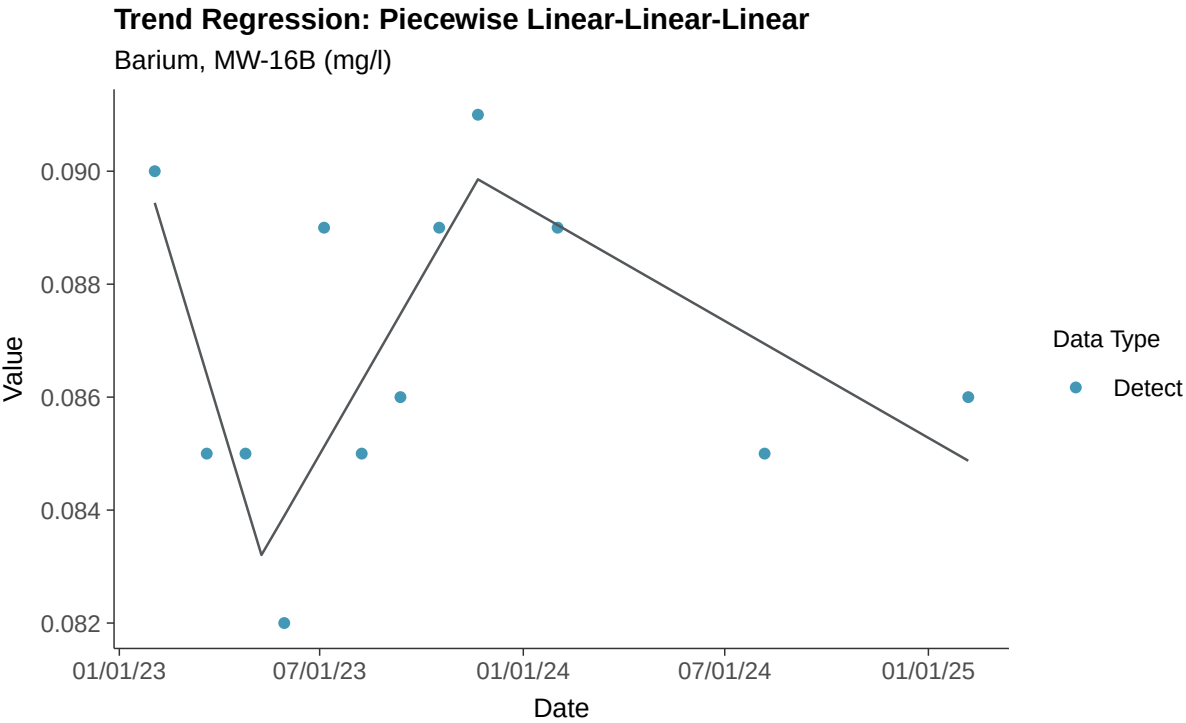
ID: 24_3_103







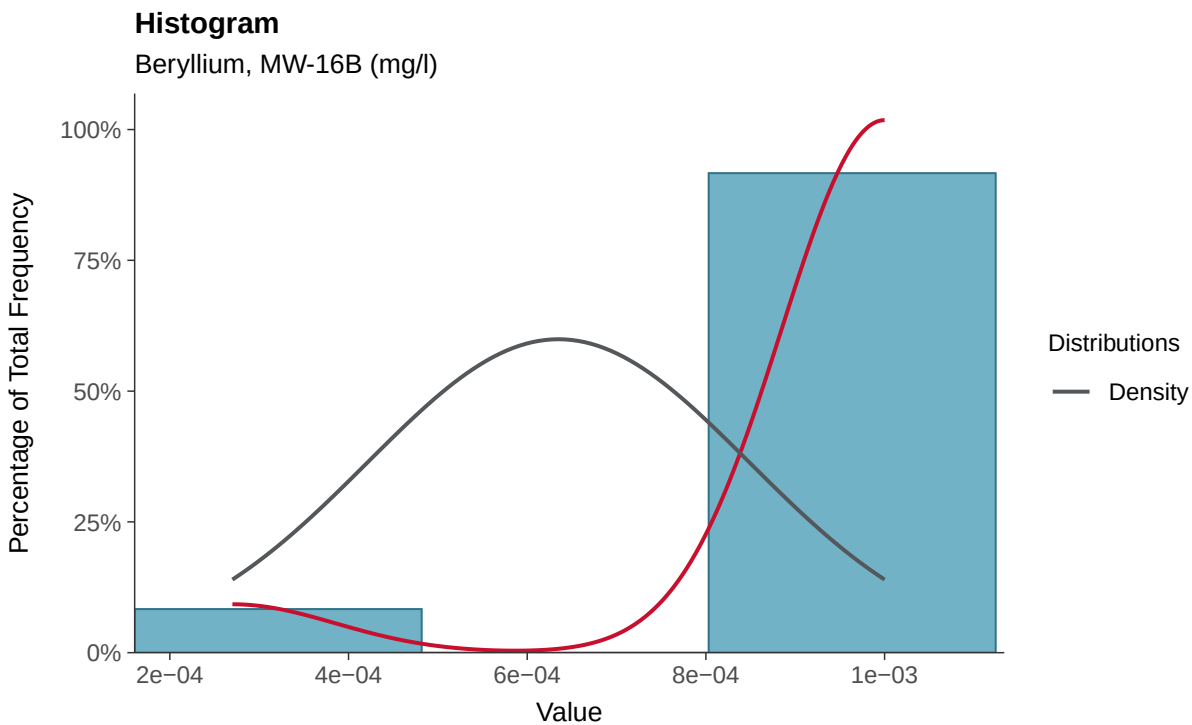
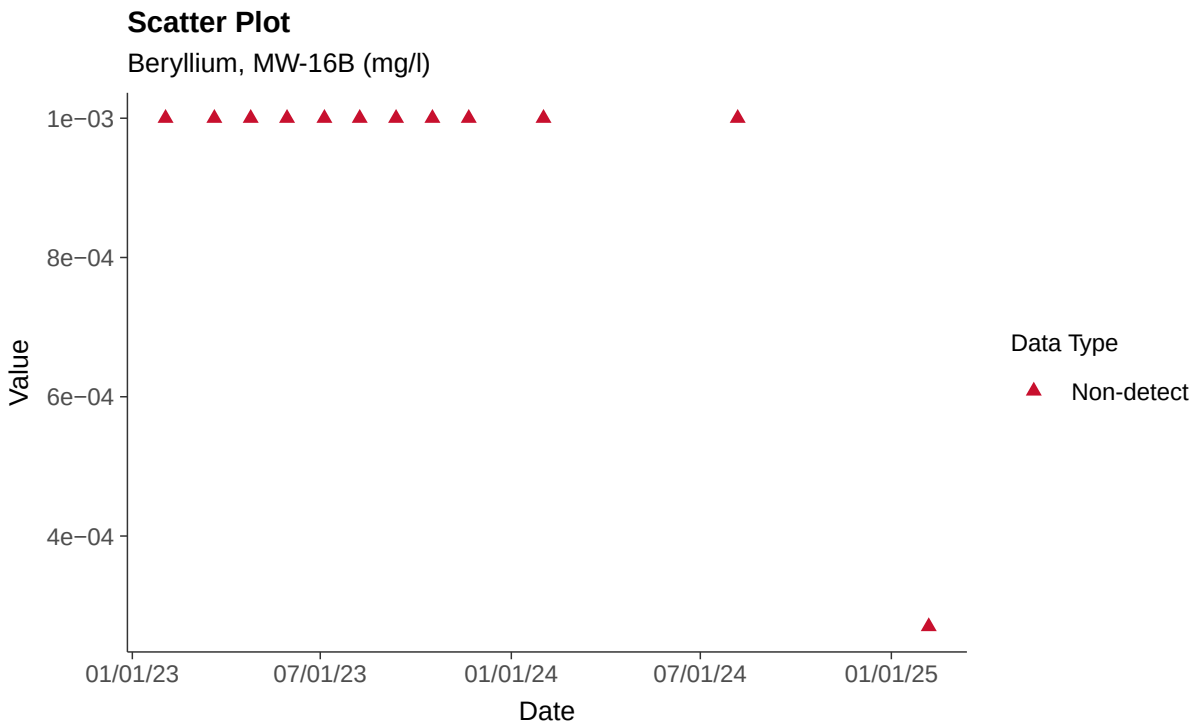


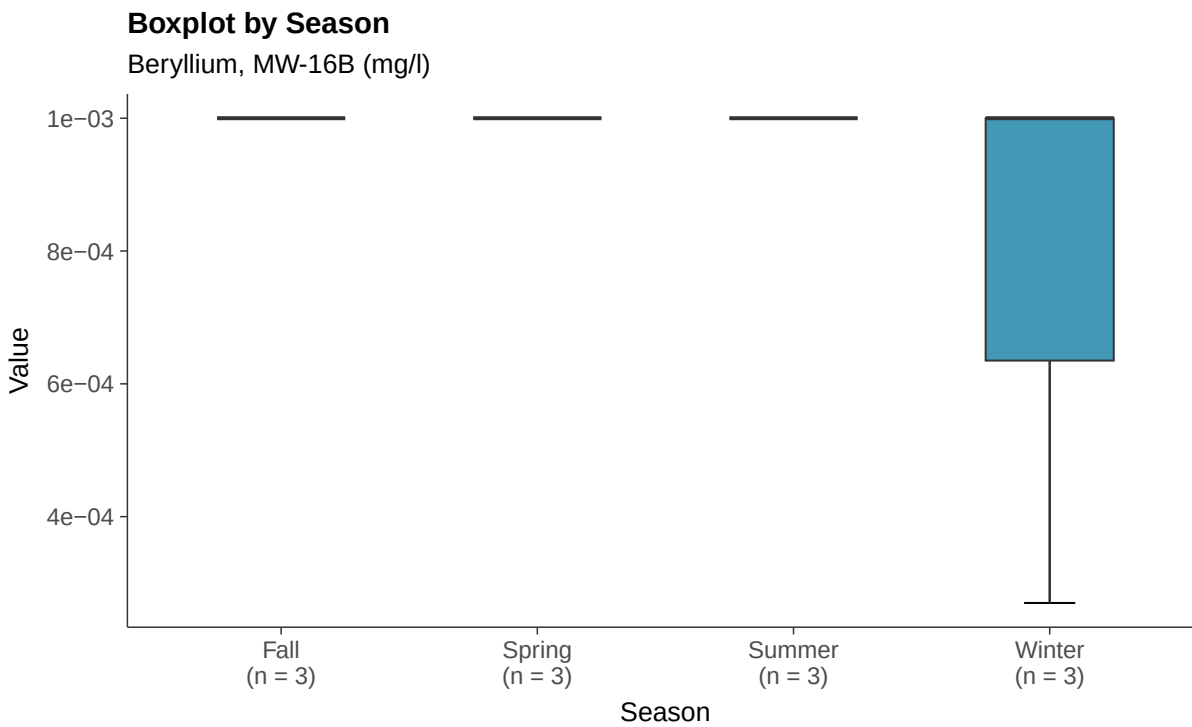
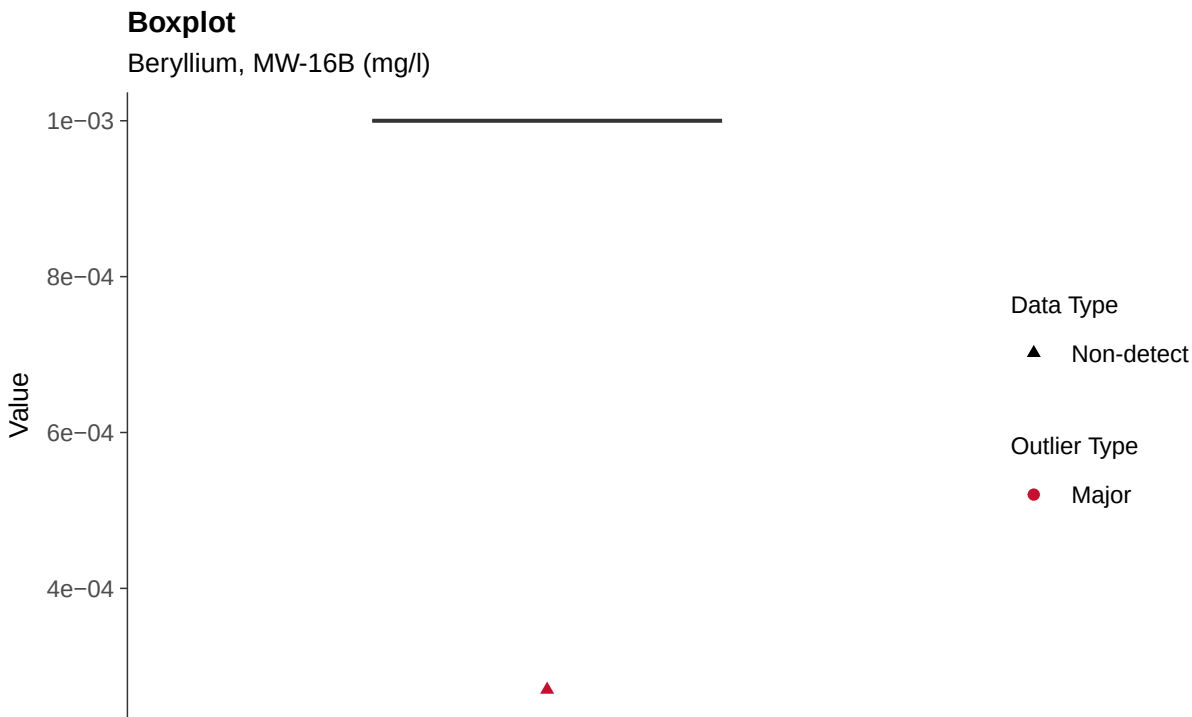




Appendix IV: Beryllium, MW-16B

ID: 24_3_104

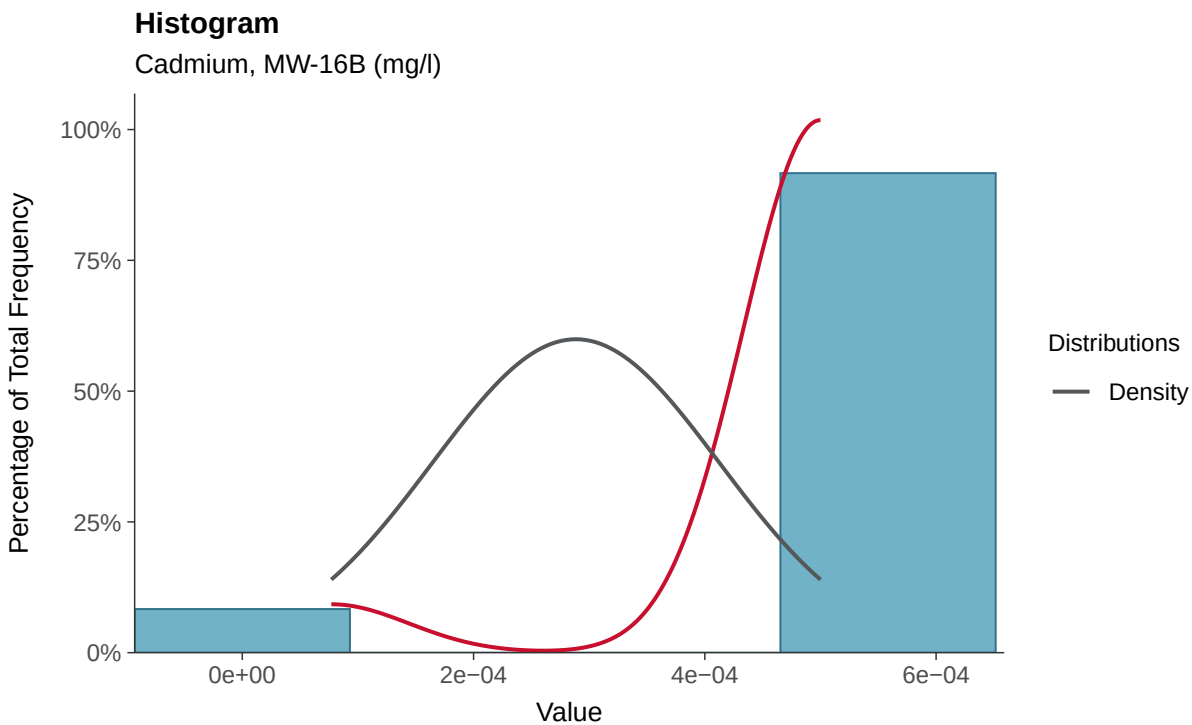
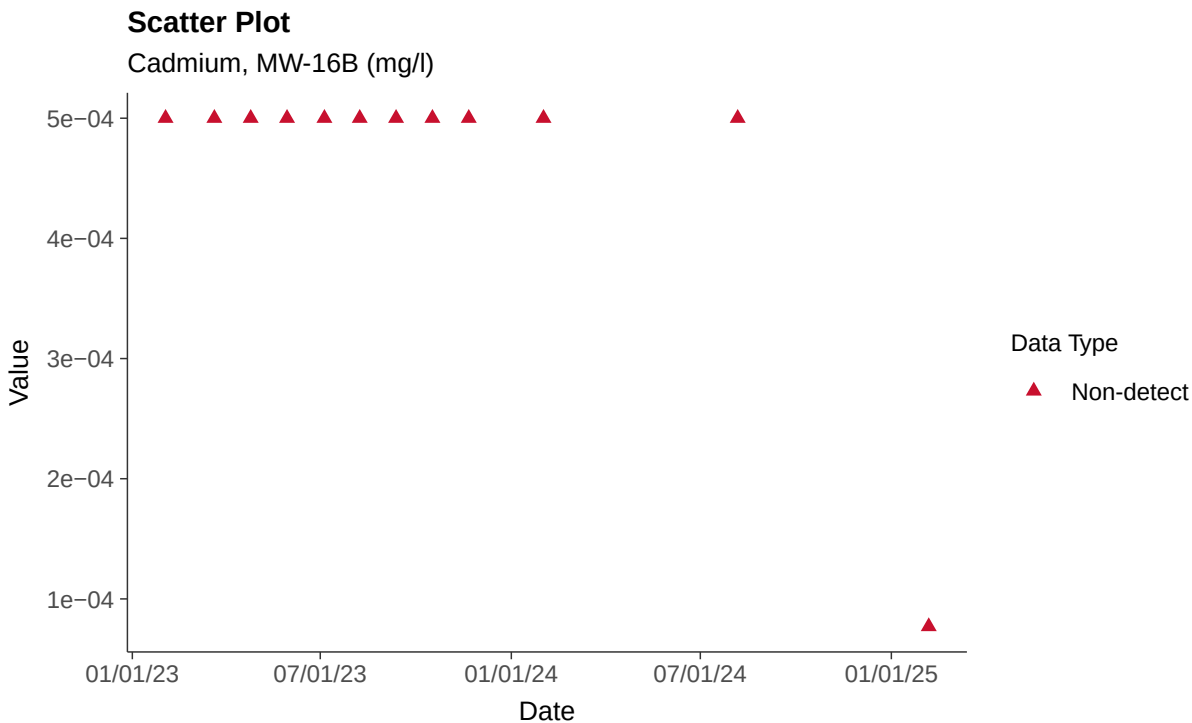


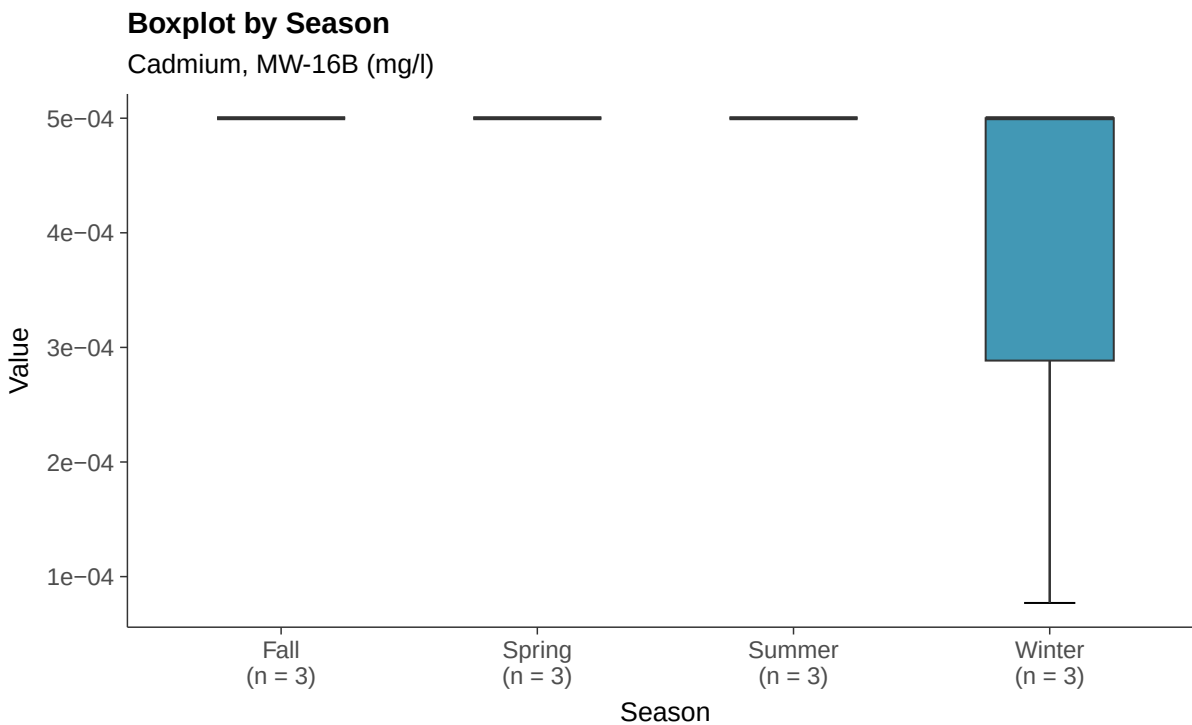
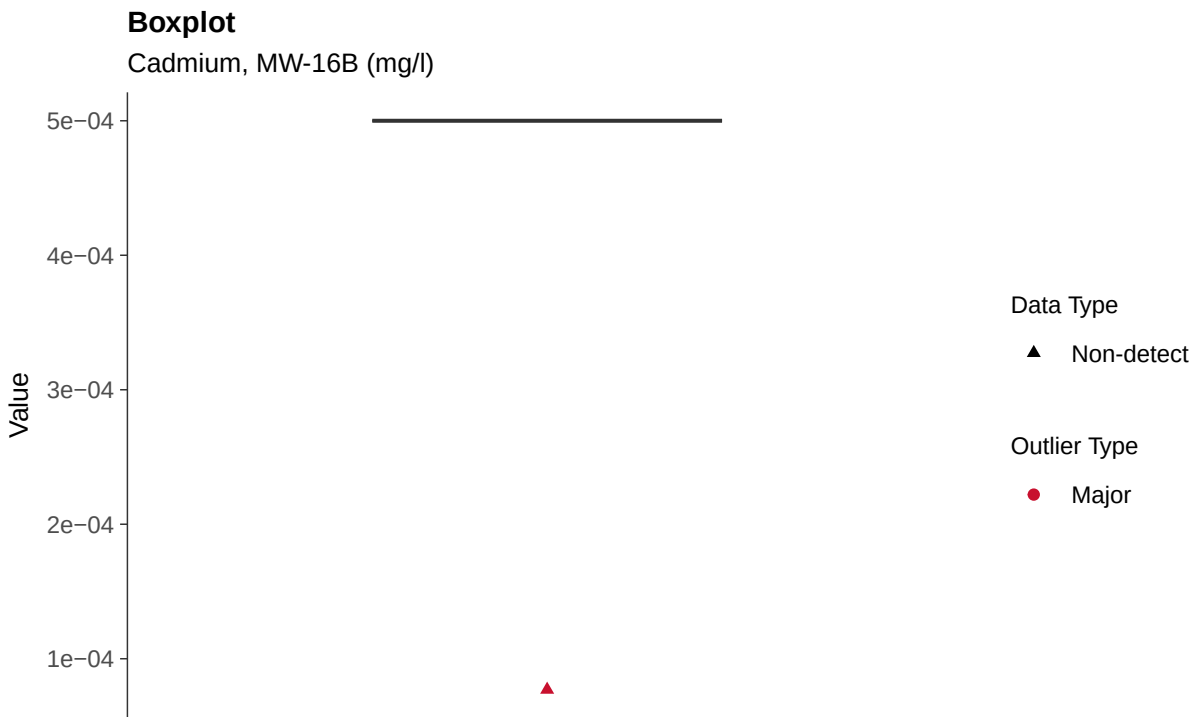




Appendix IV: Cadmium, MW-16B

ID: 24_3_106

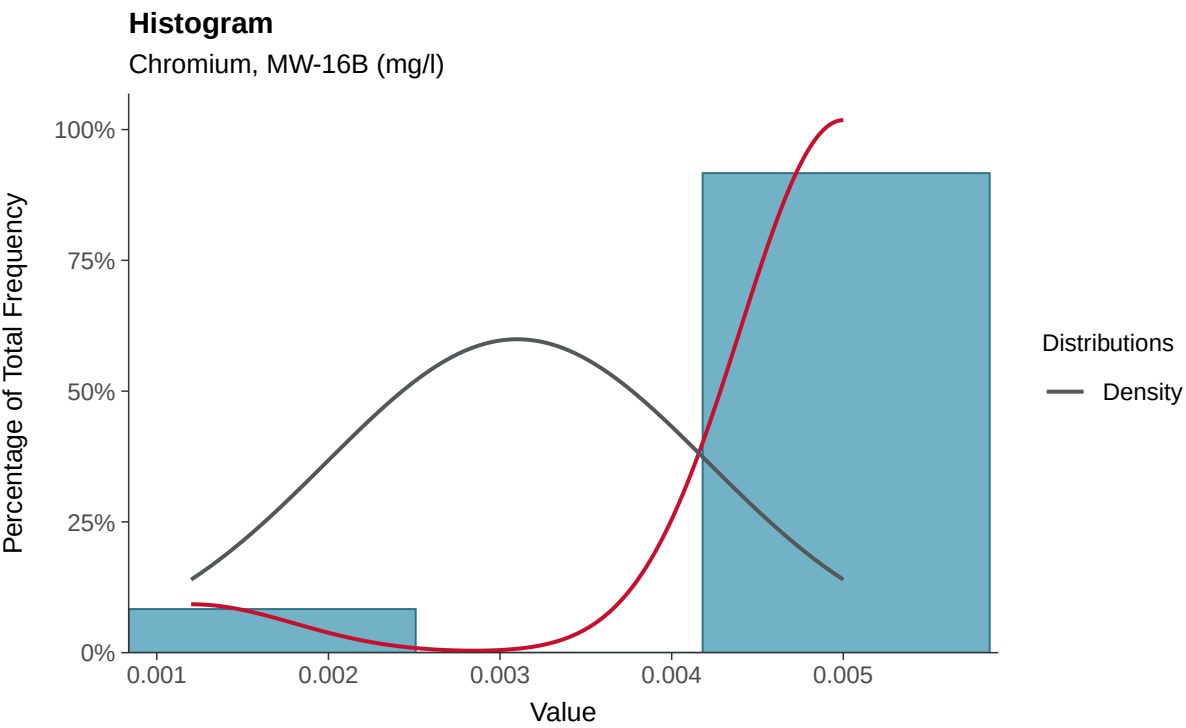
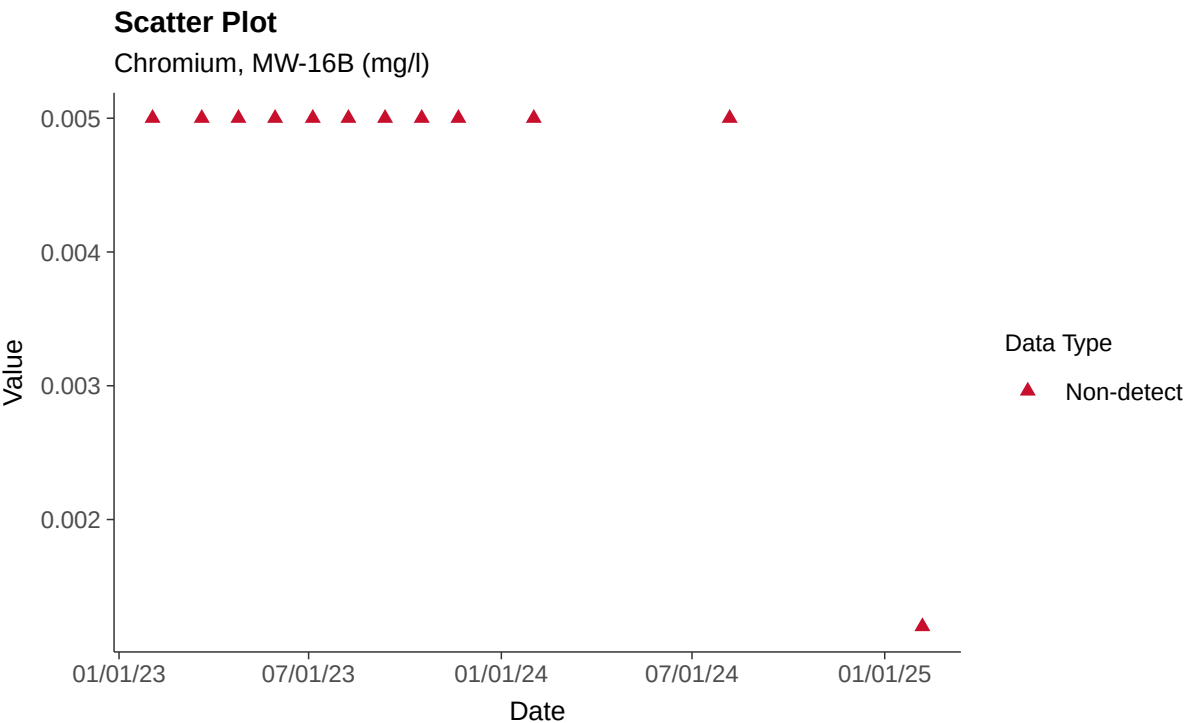


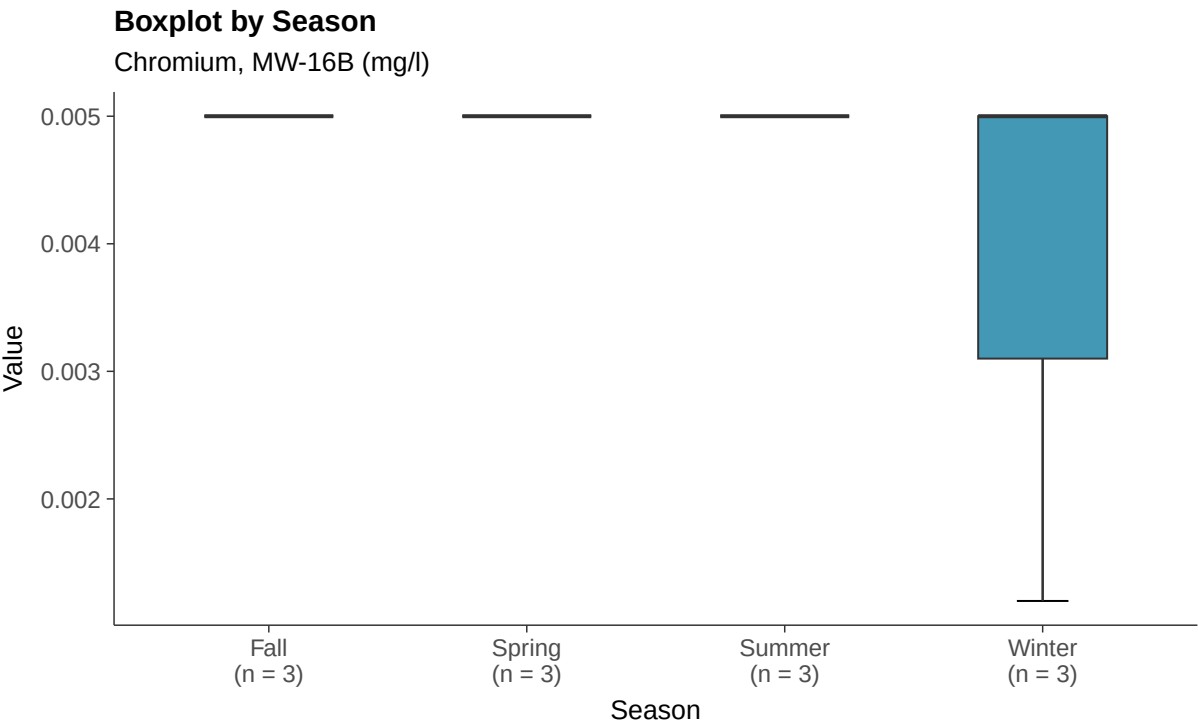
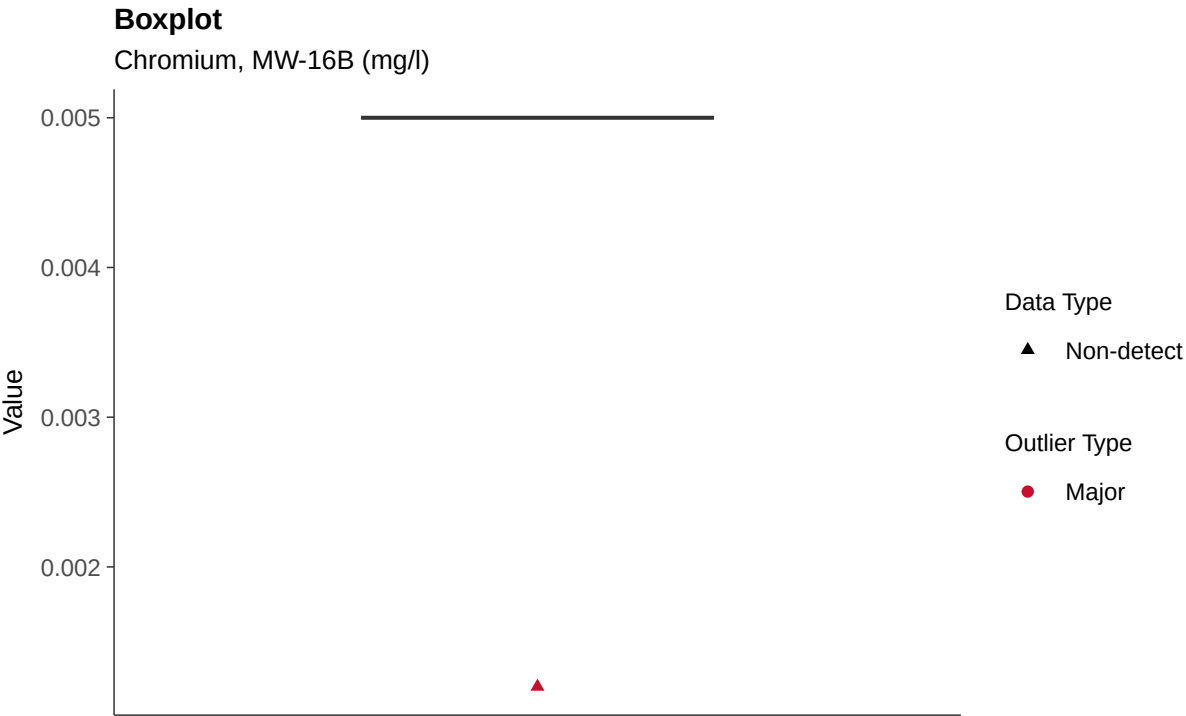




Appendix IV: Chromium, MW-16B

ID: 24_3_109

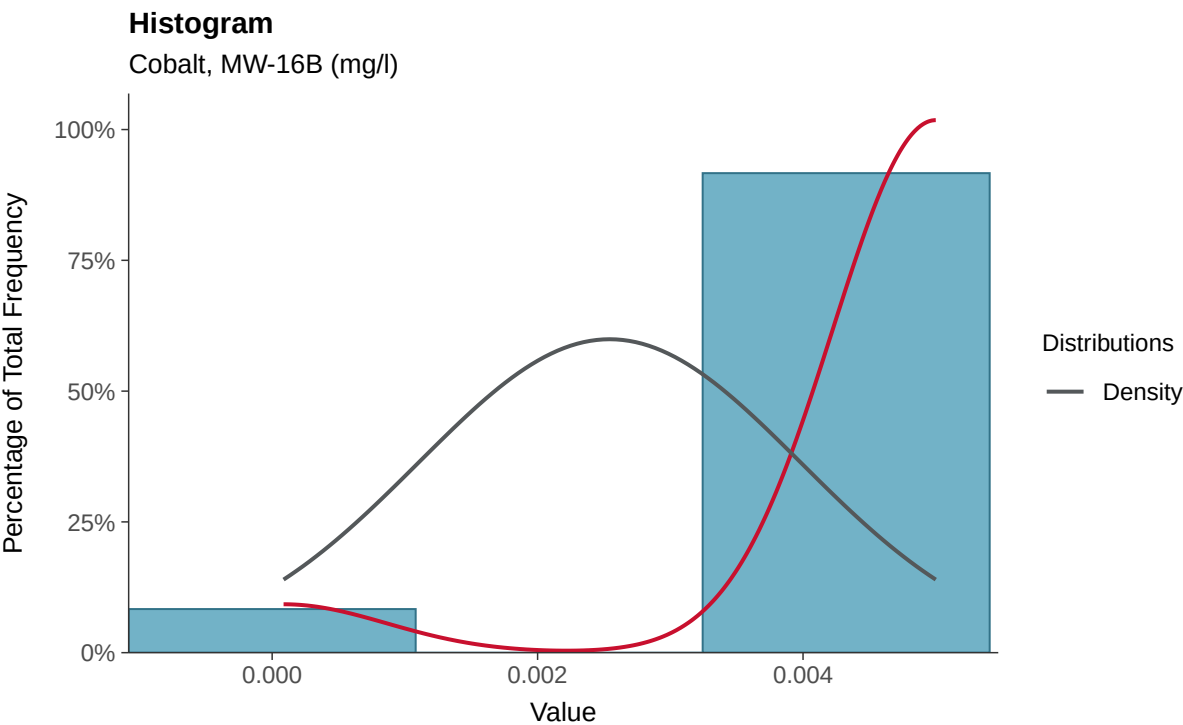
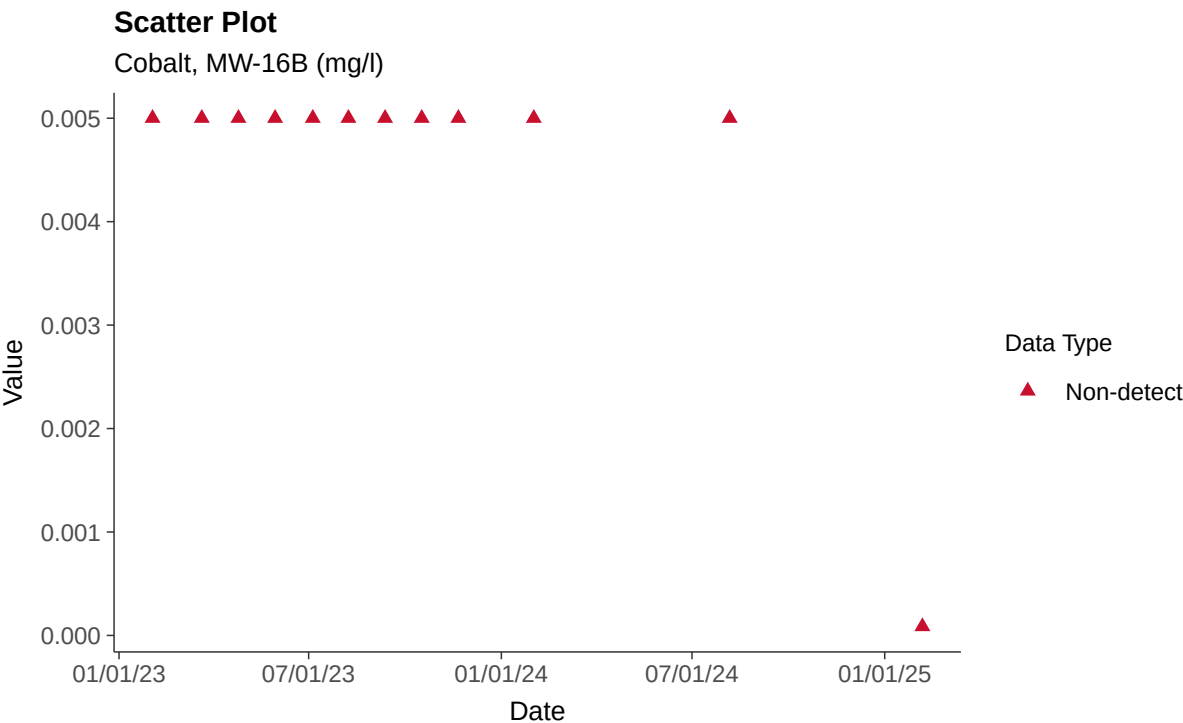


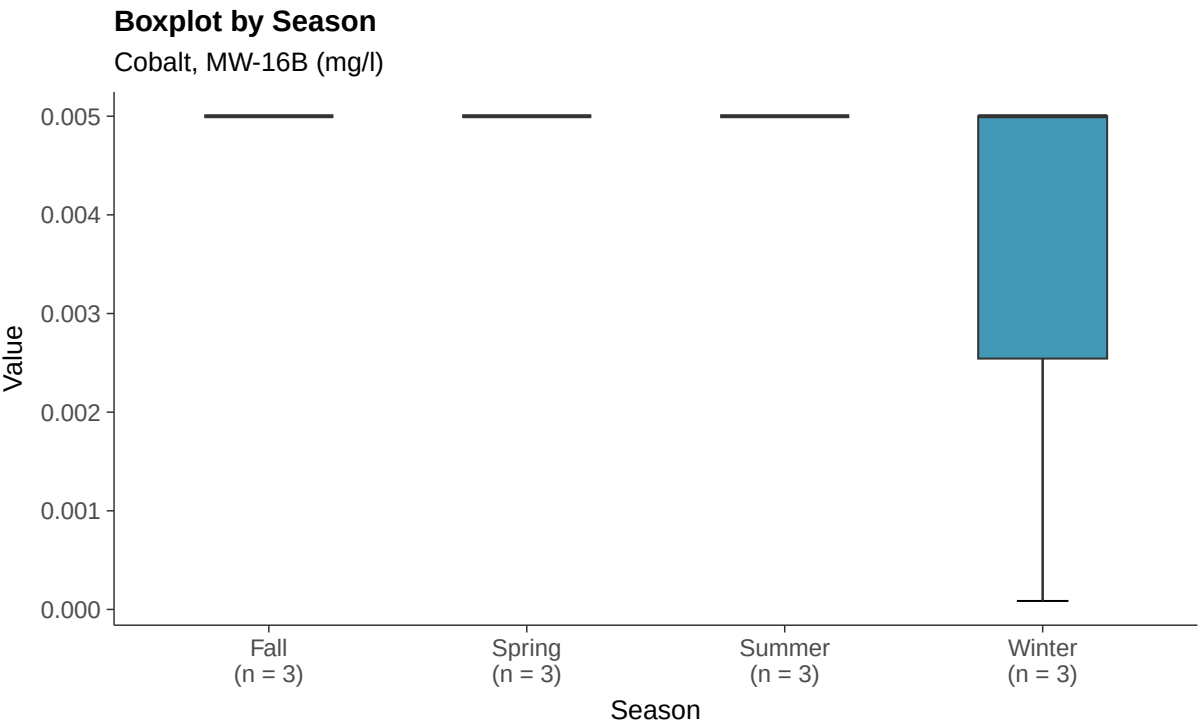
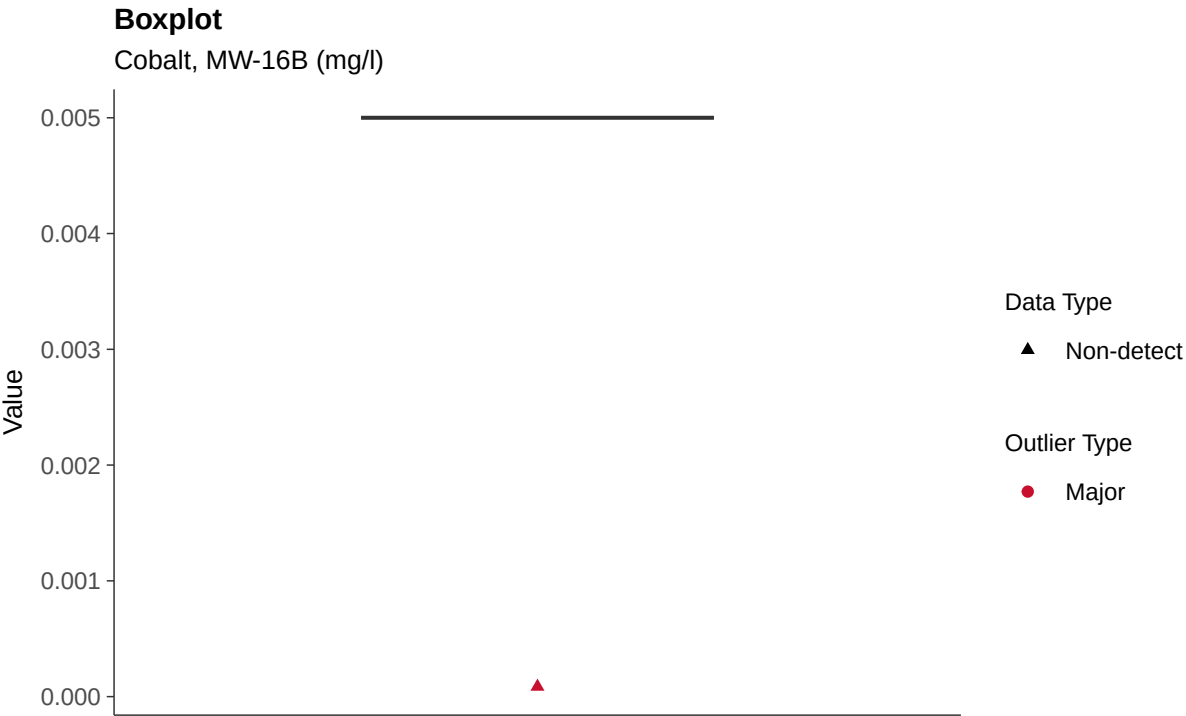




Appendix IV: Cobalt, MW-16B

ID: 24_3_110

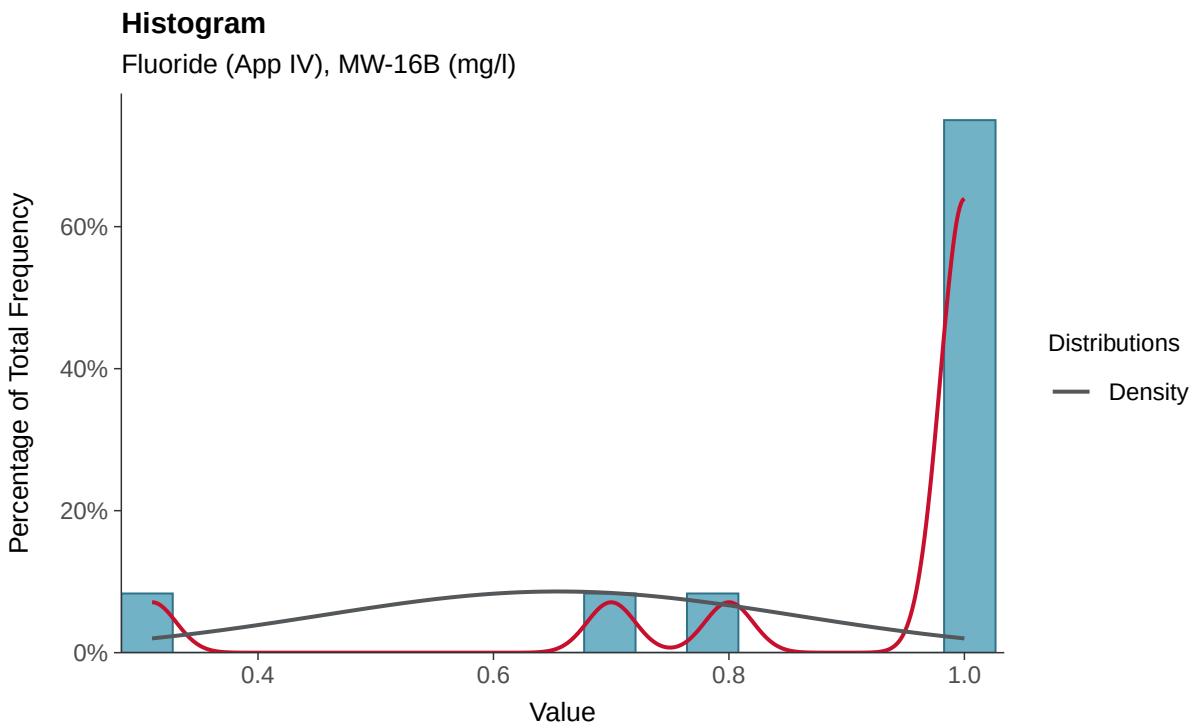
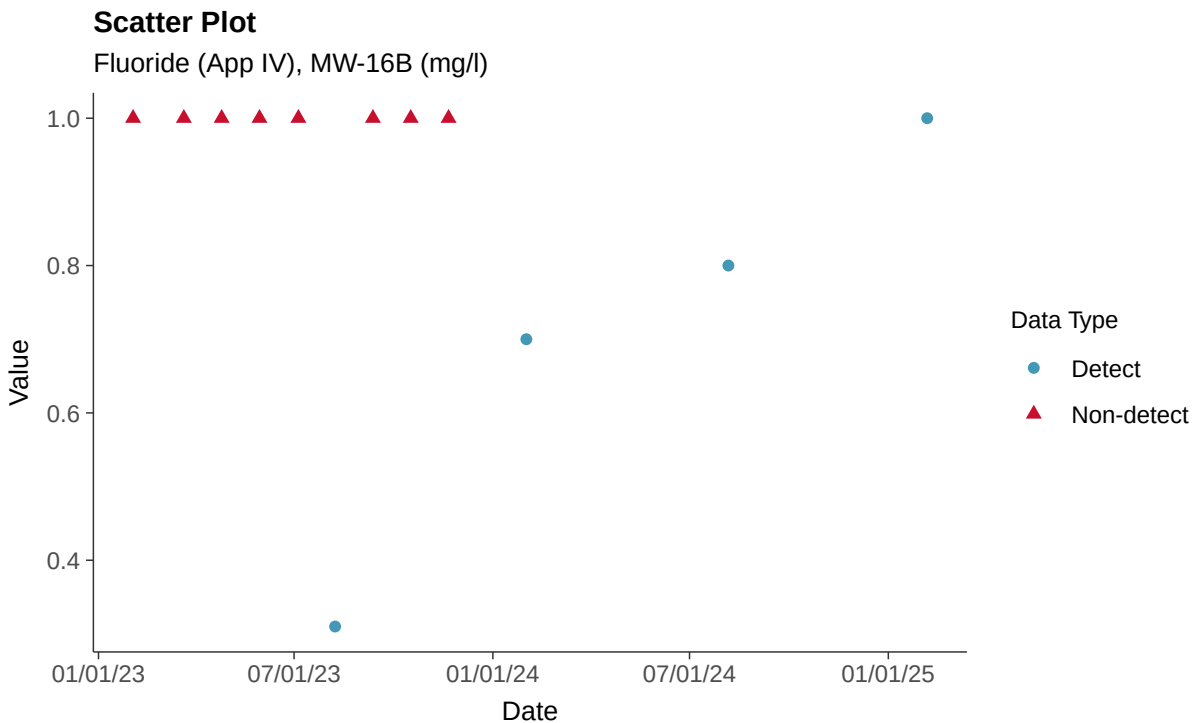


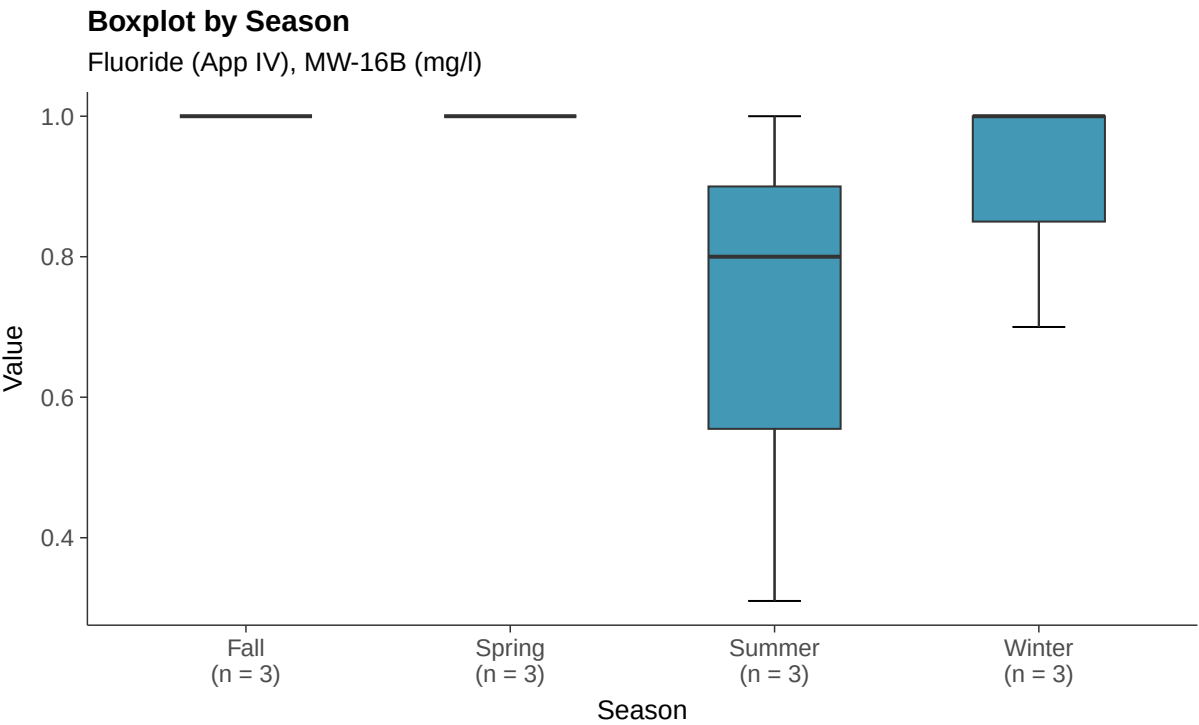
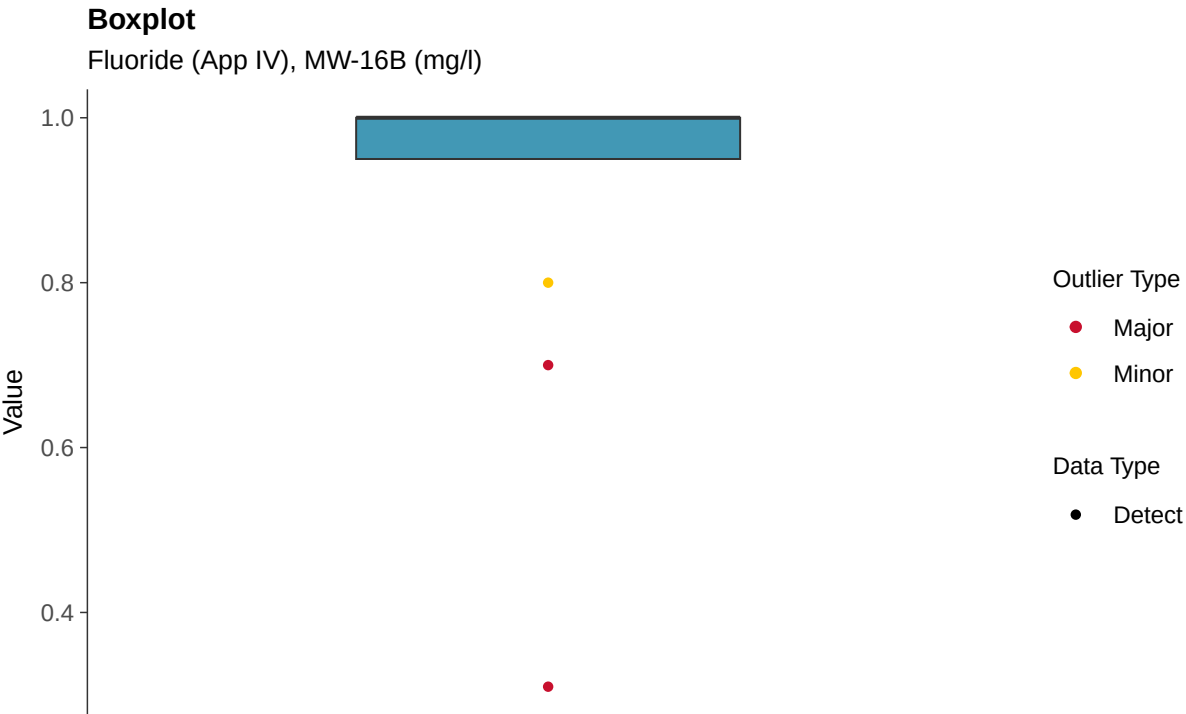




Appendix IV: Fluoride (App IV), MW-16B

ID: 24_3_113

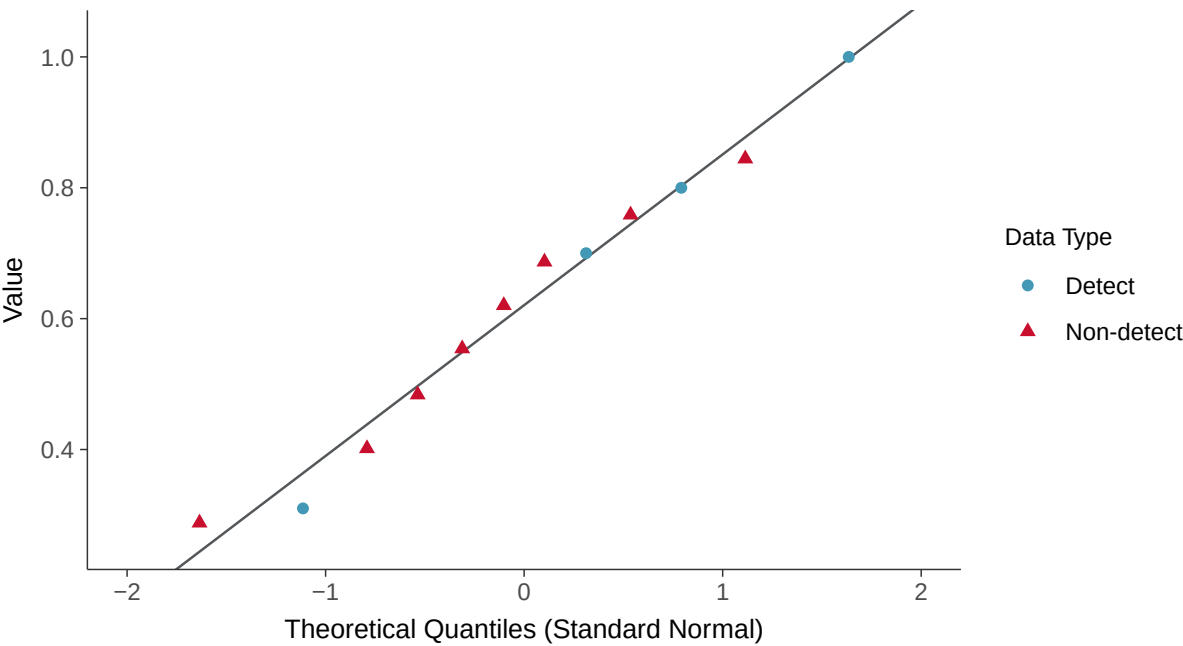






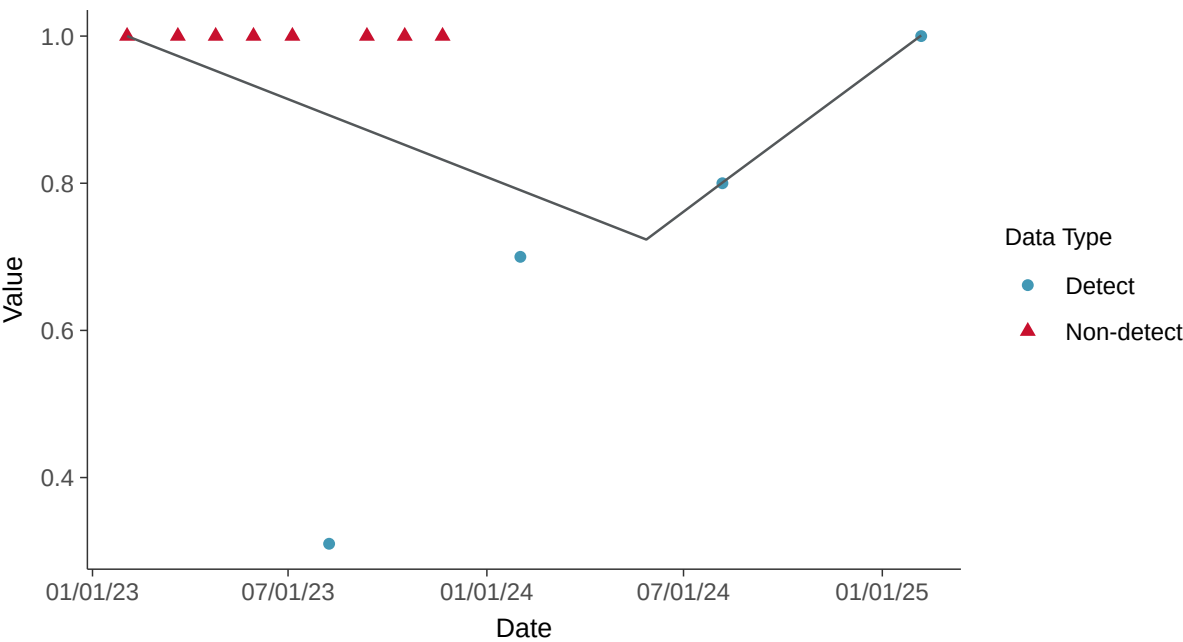
Normal Q-Q plot using ROS Imputed Estimates

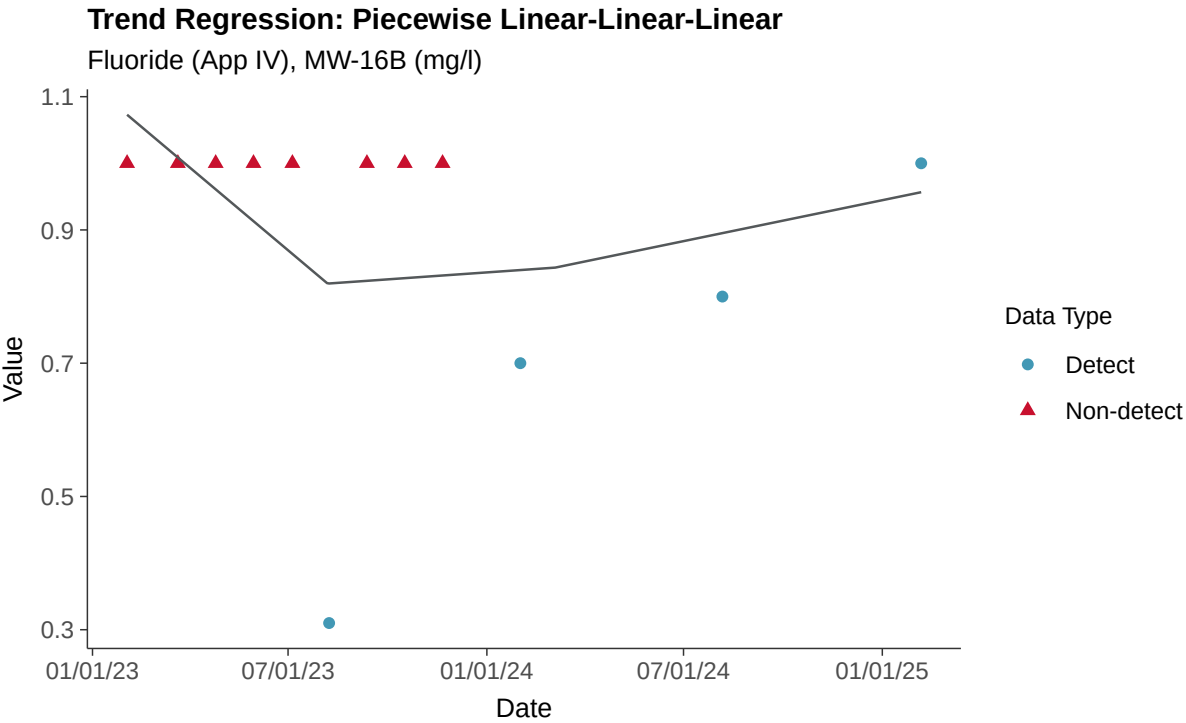
Fluoride (App IV), MW-16B (mg/l)



Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-16B (mg/l)

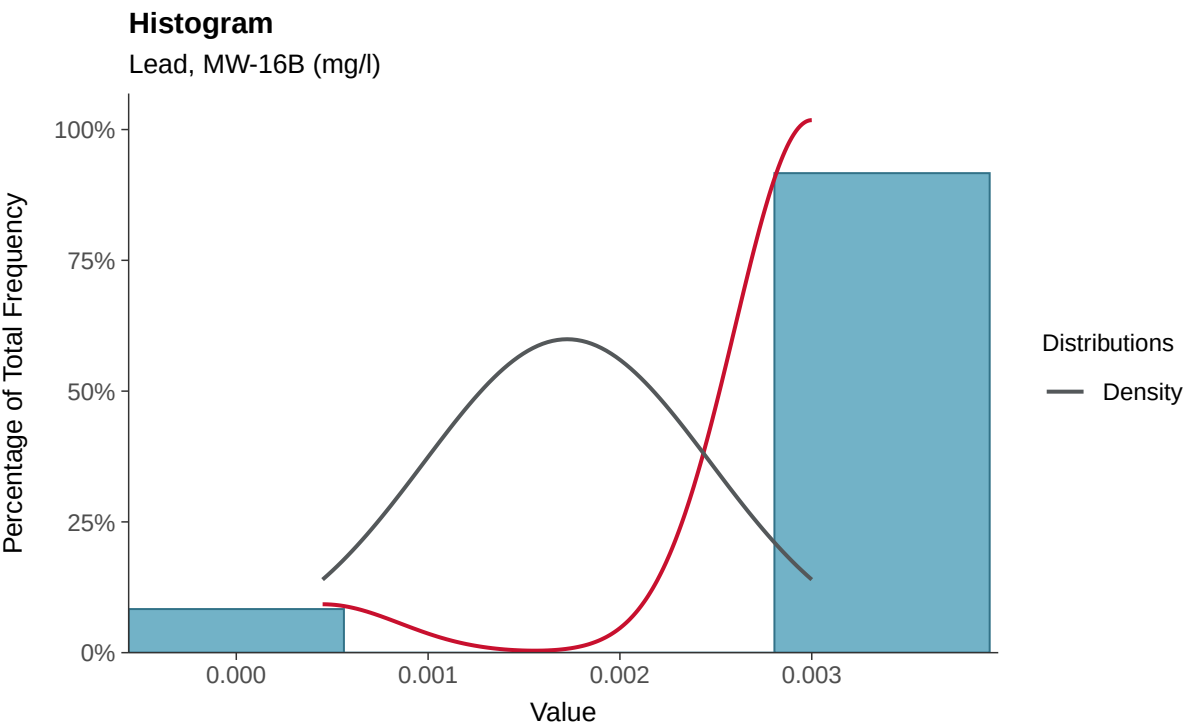
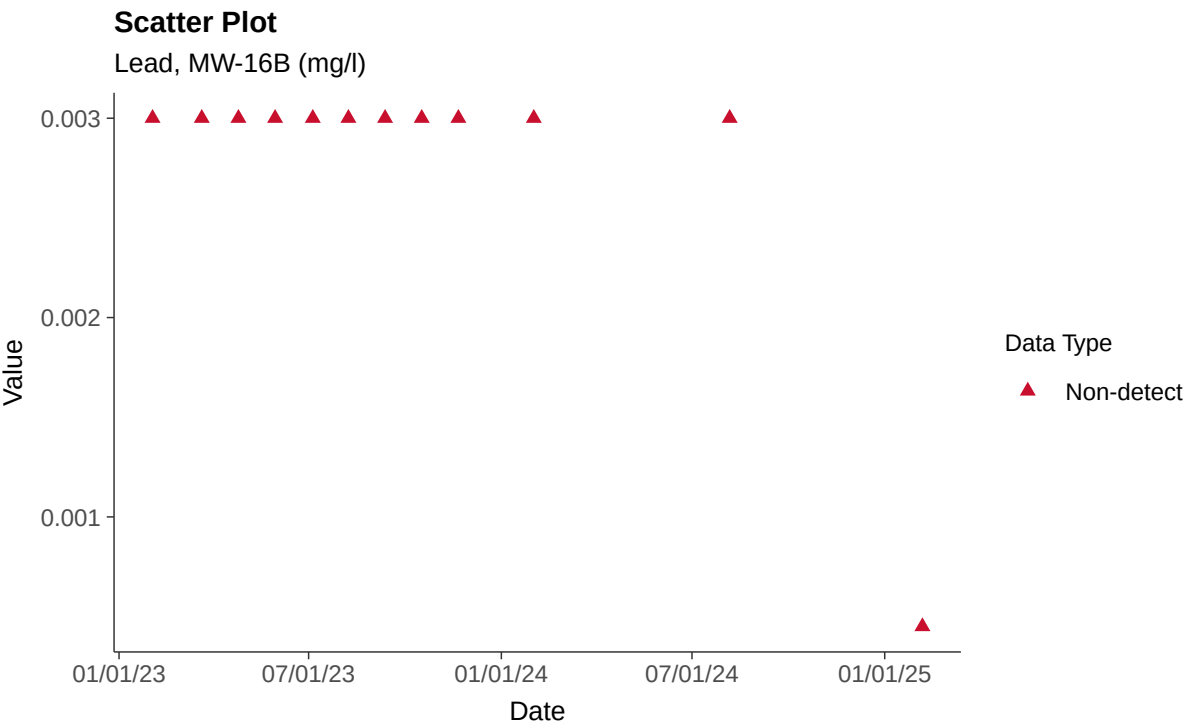


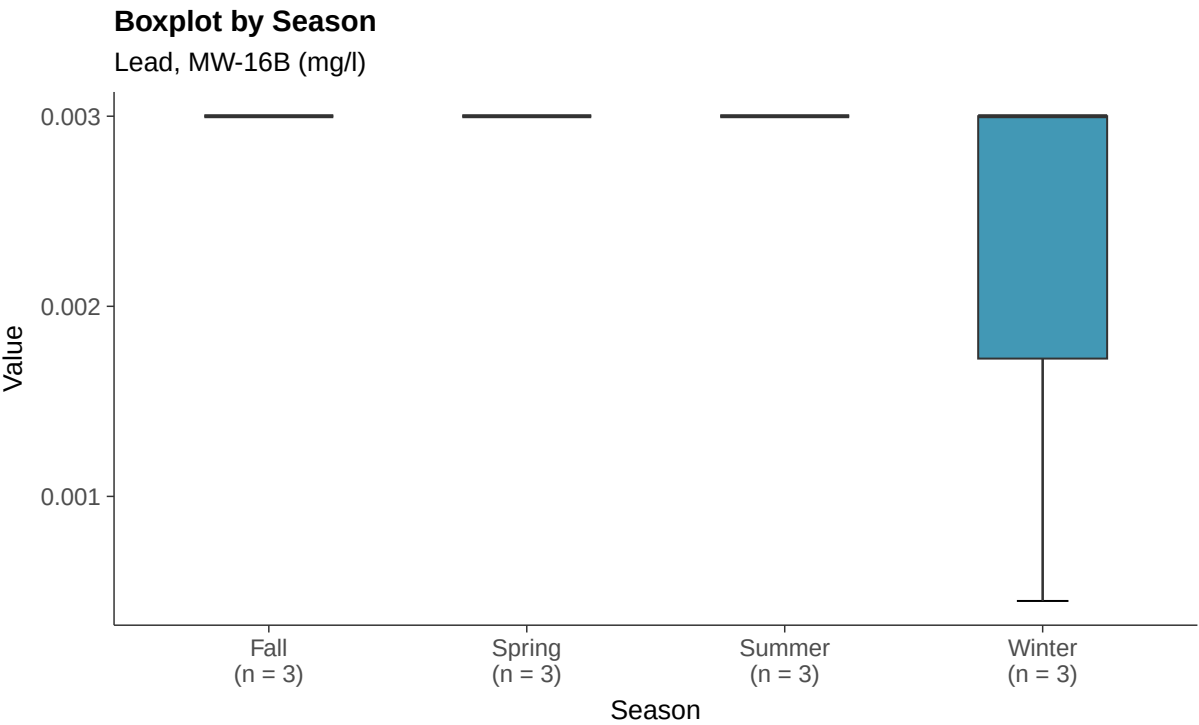
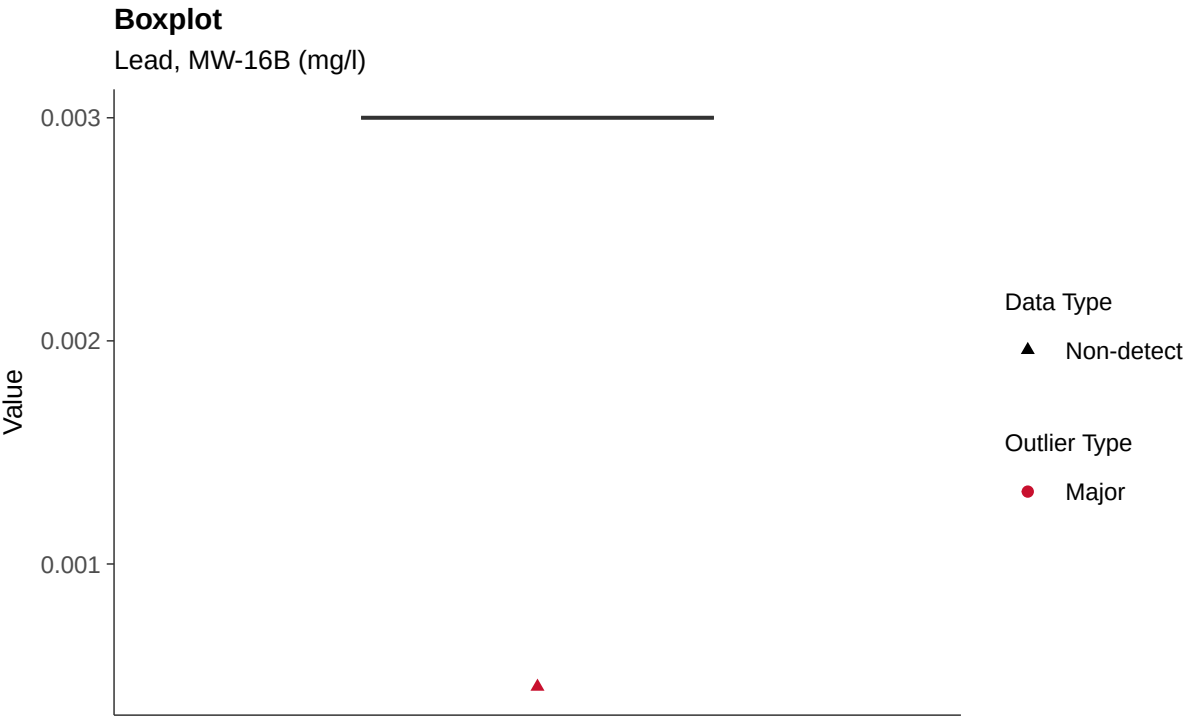




Appendix IV: Lead, MW-16B

ID: 24_3_115

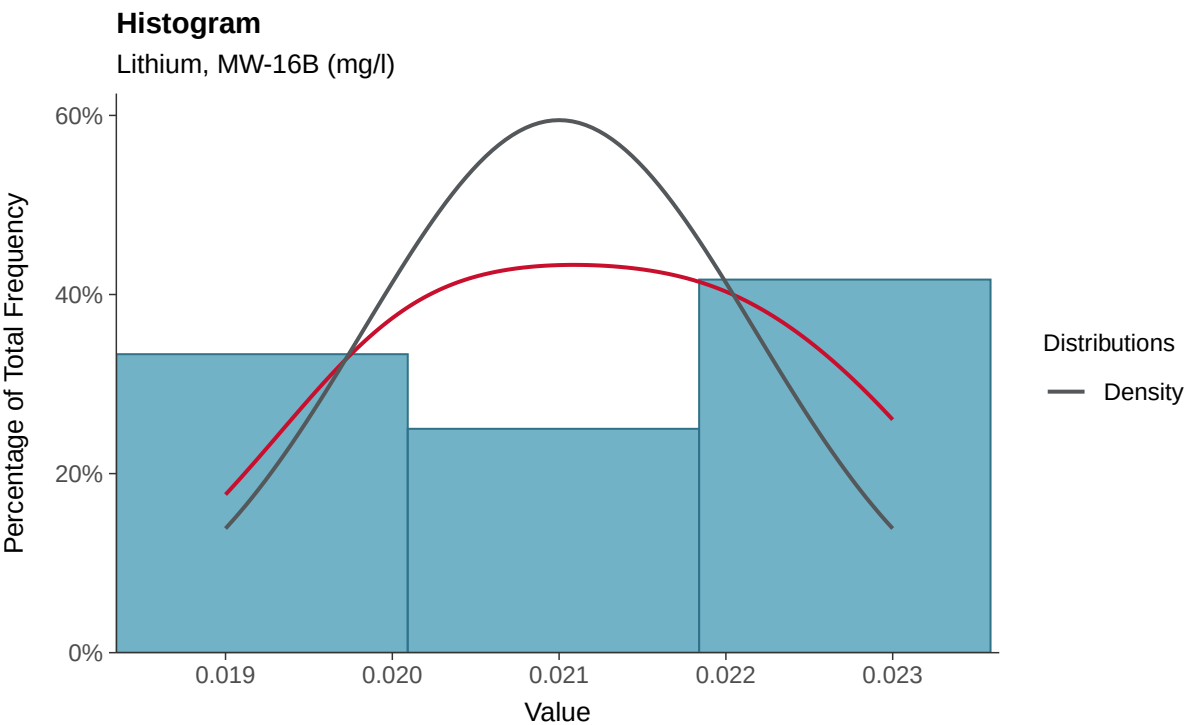
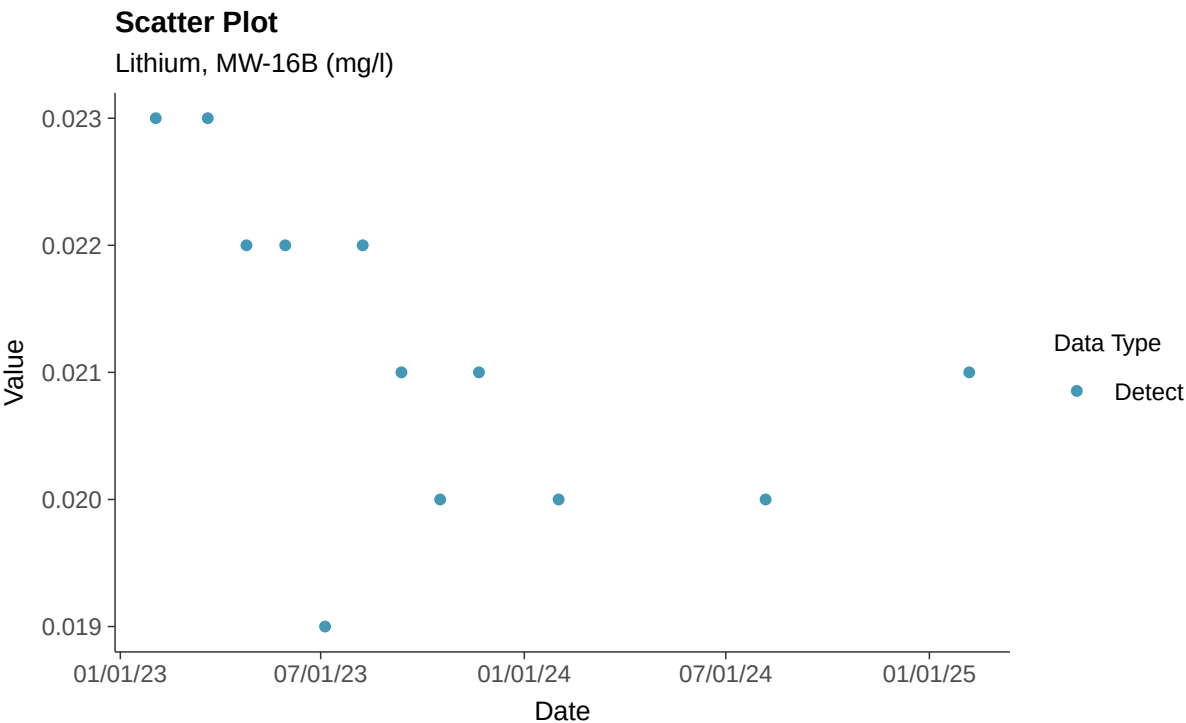


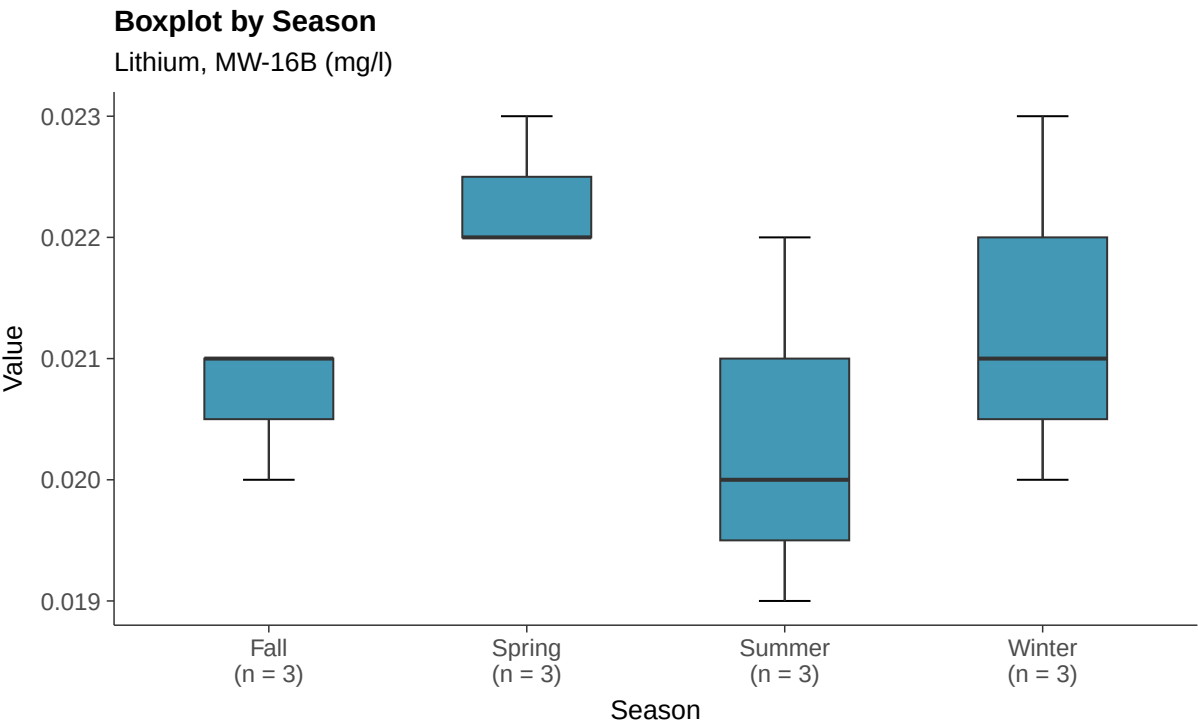
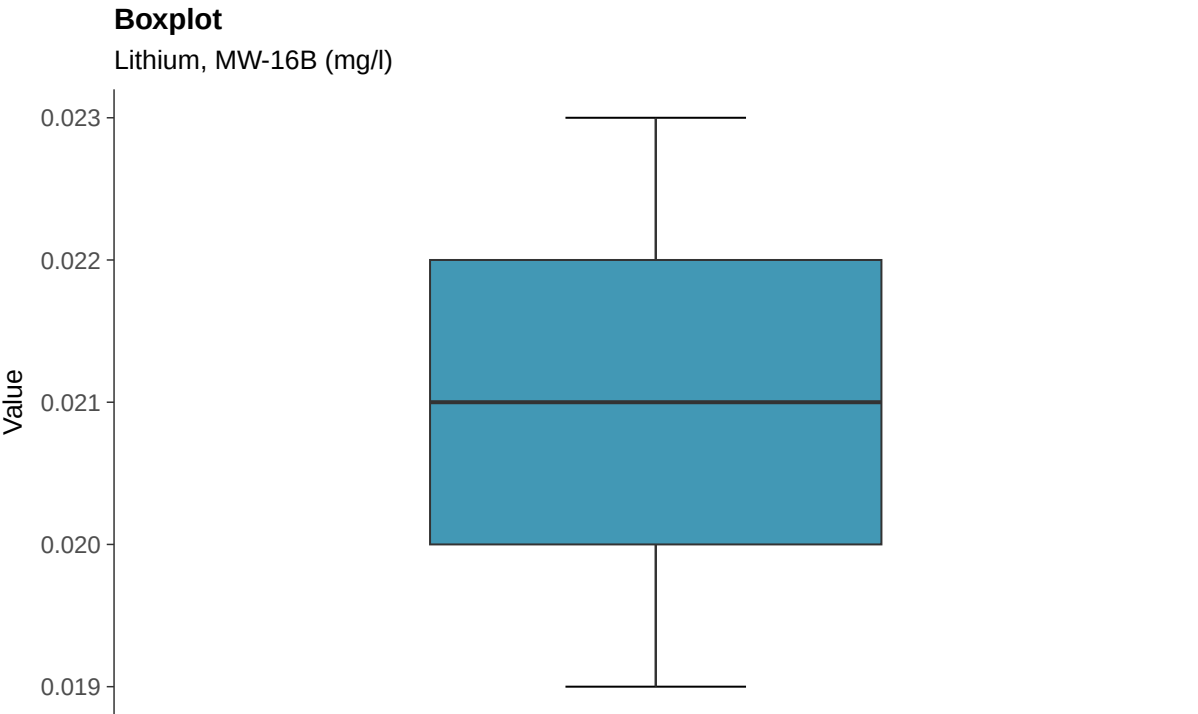


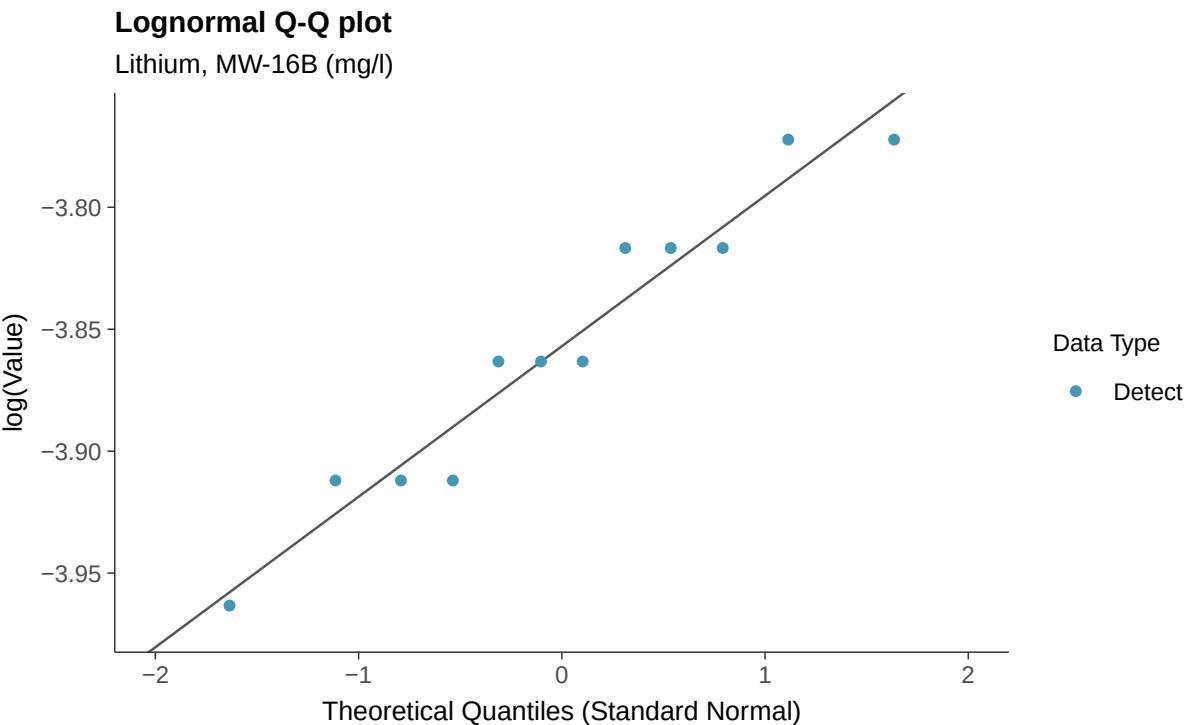
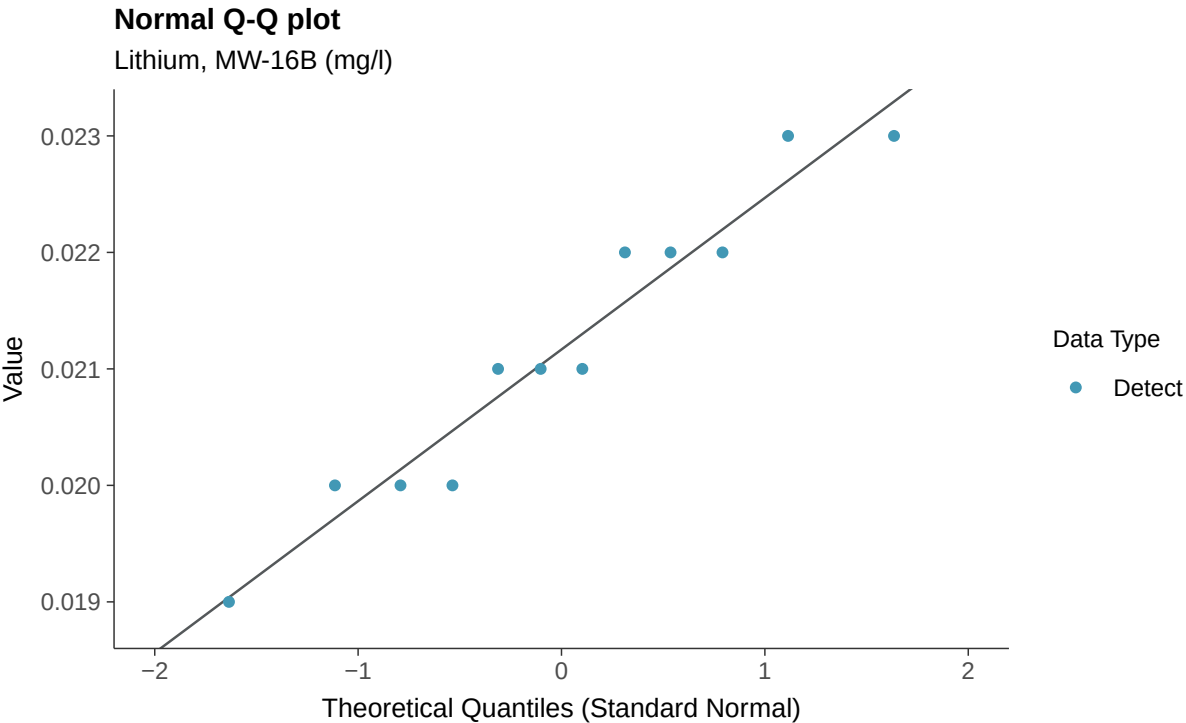


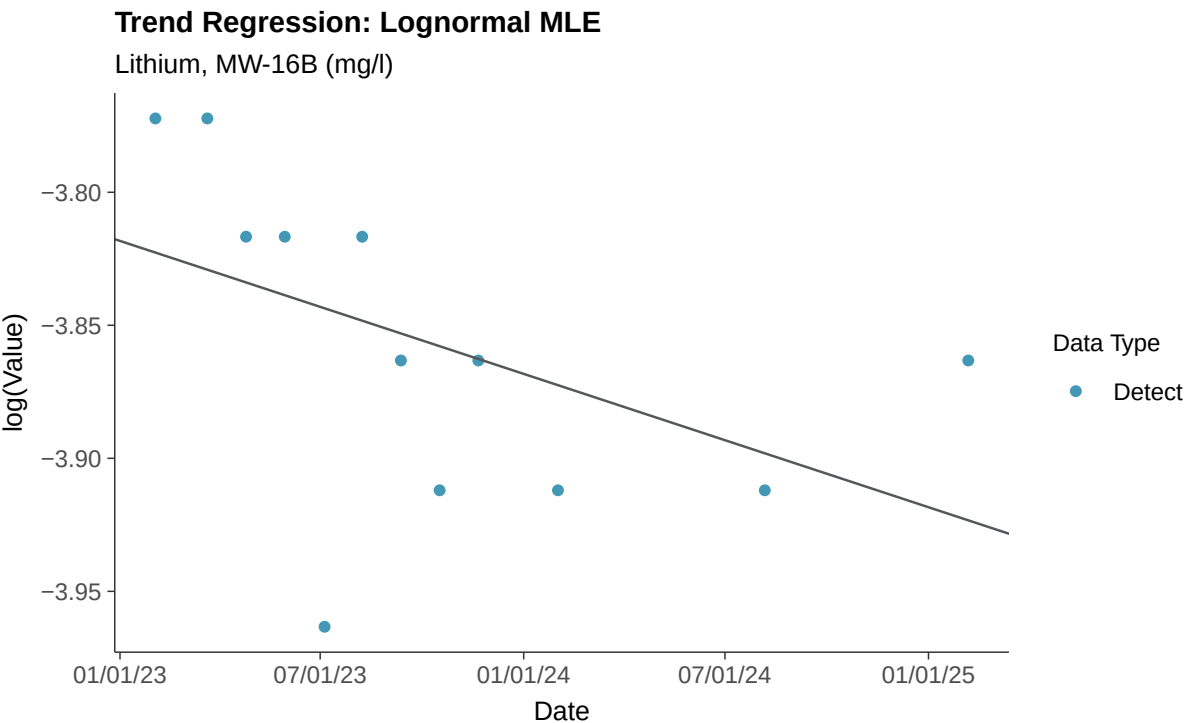
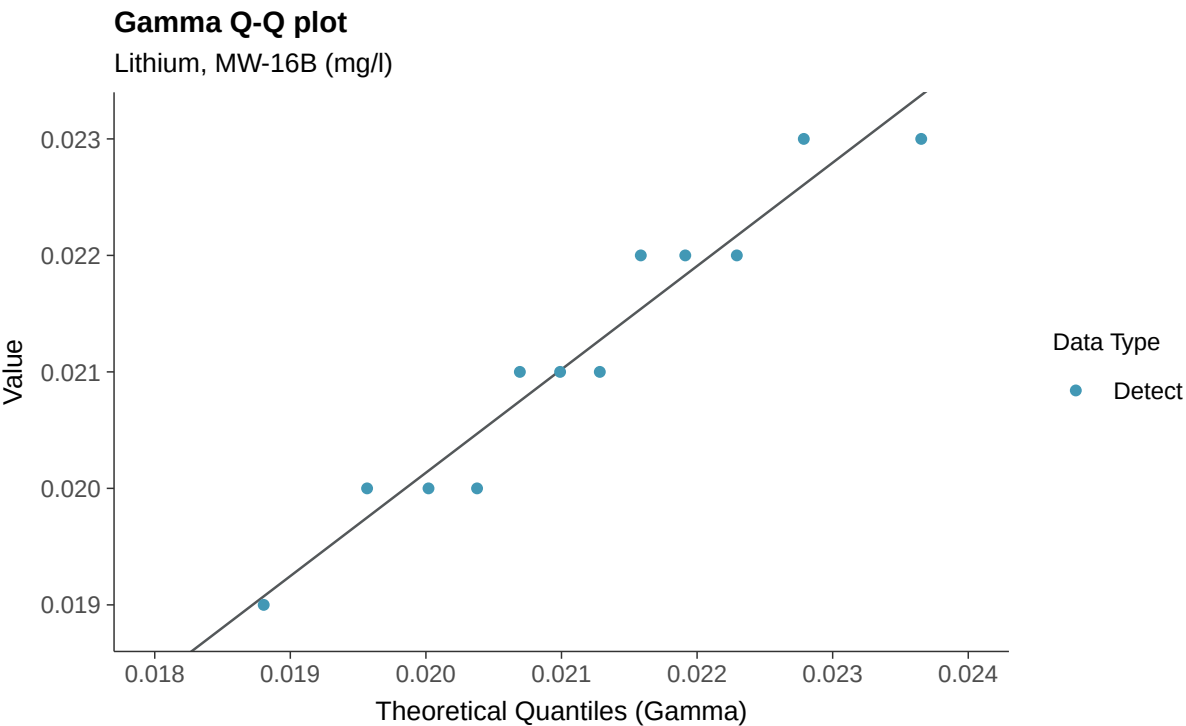
Appendix IV: Lithium, MW-16B

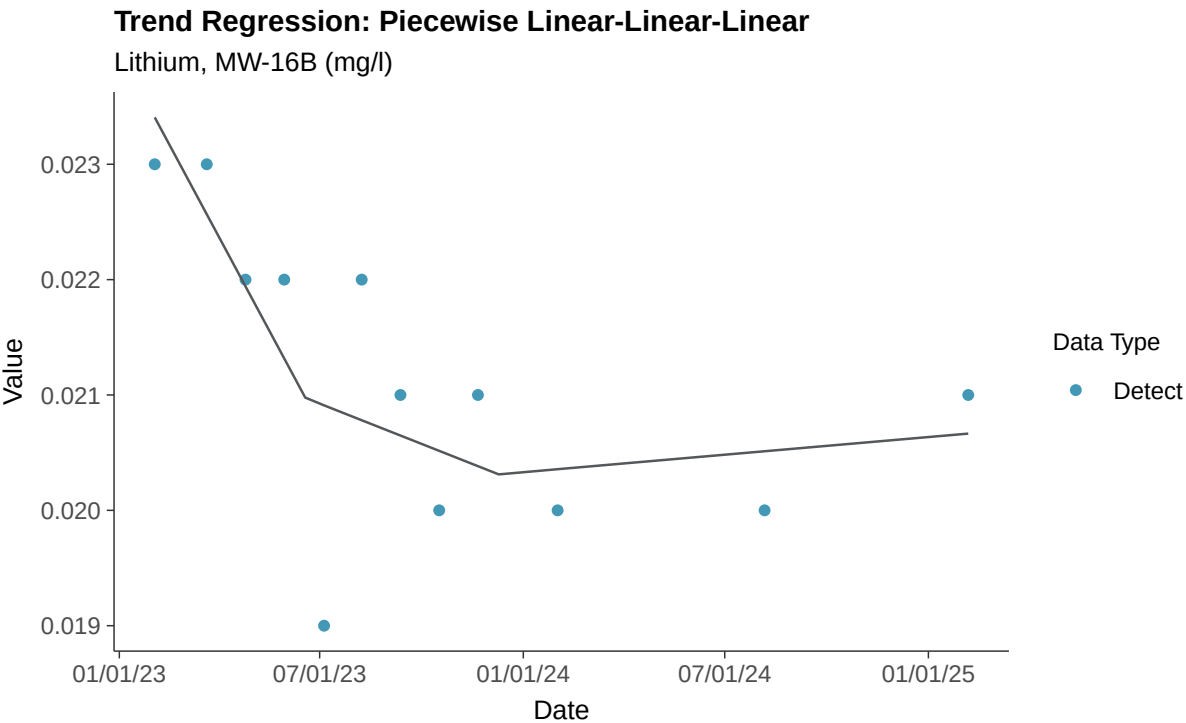
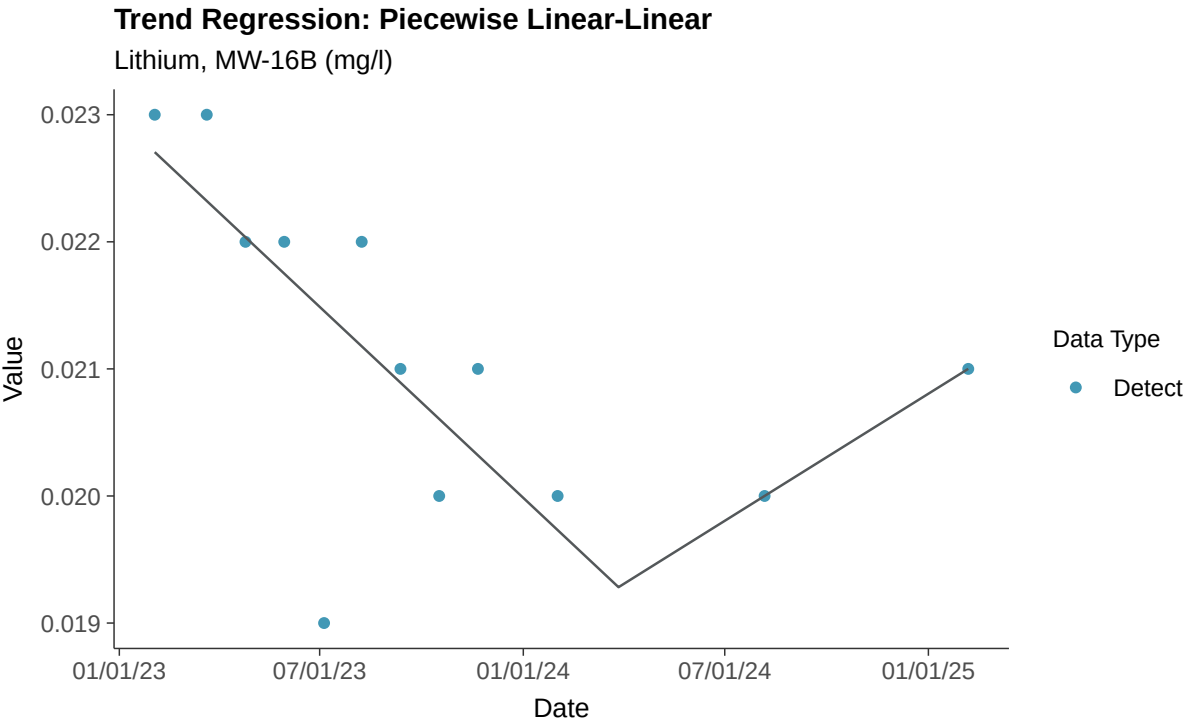
ID: 24_3_116







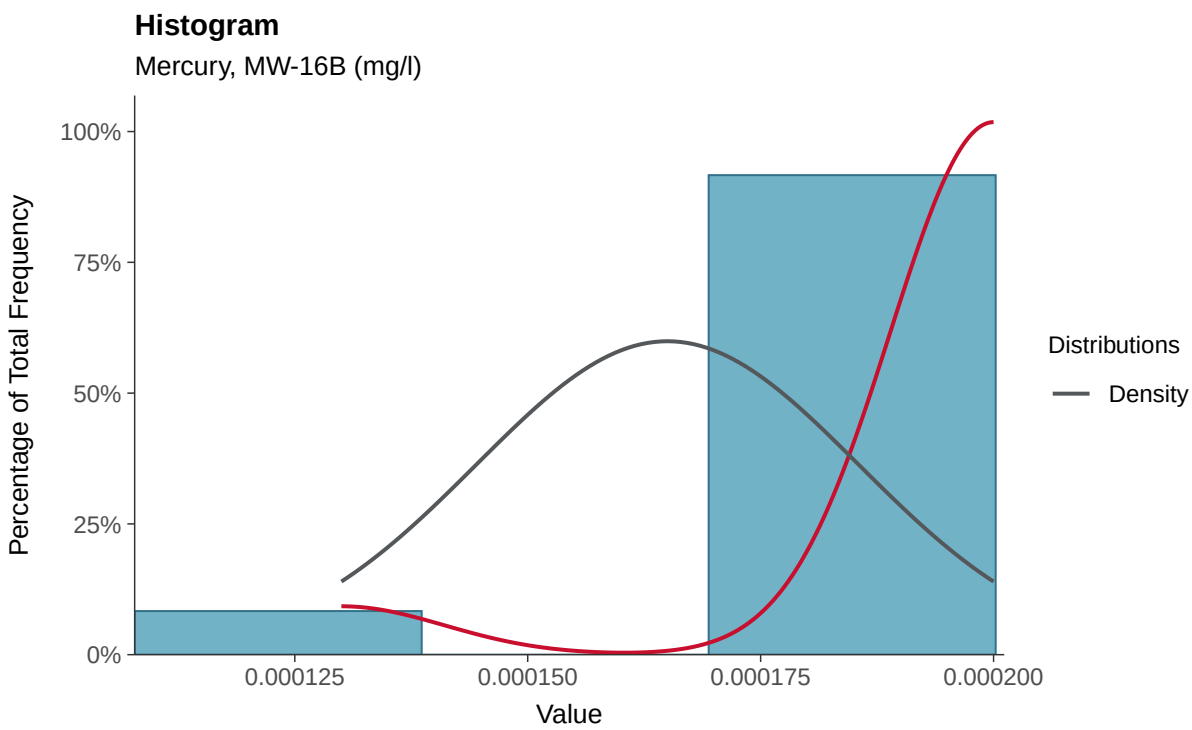
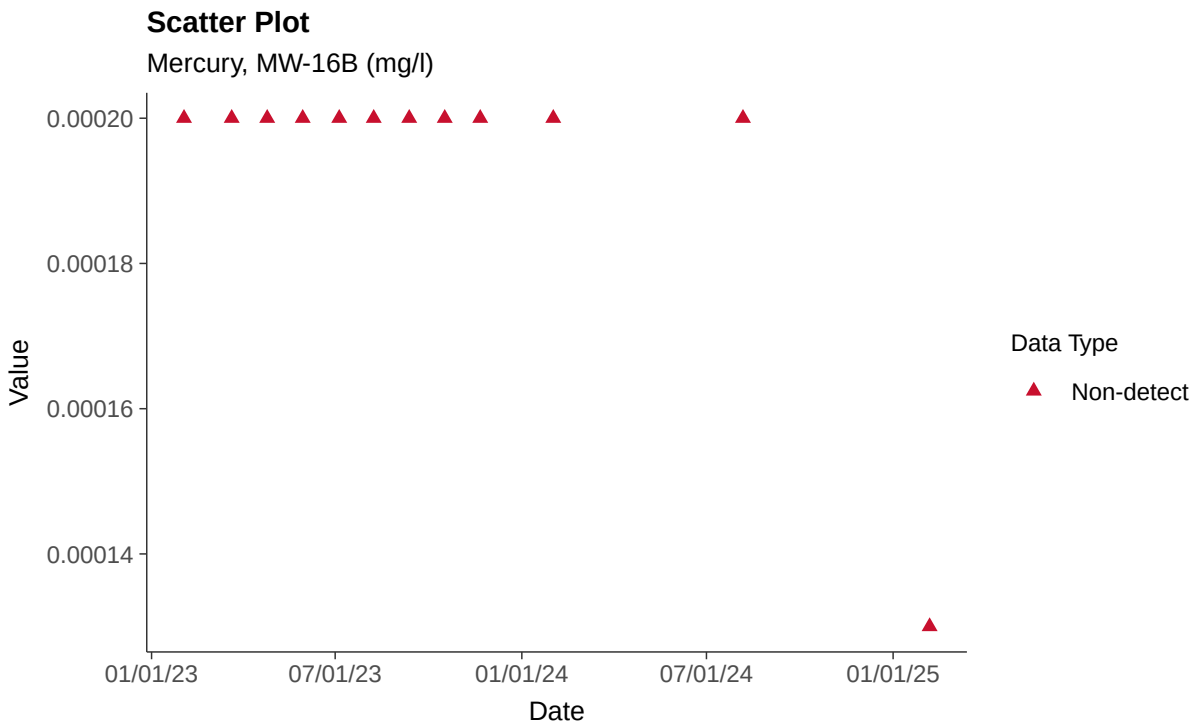


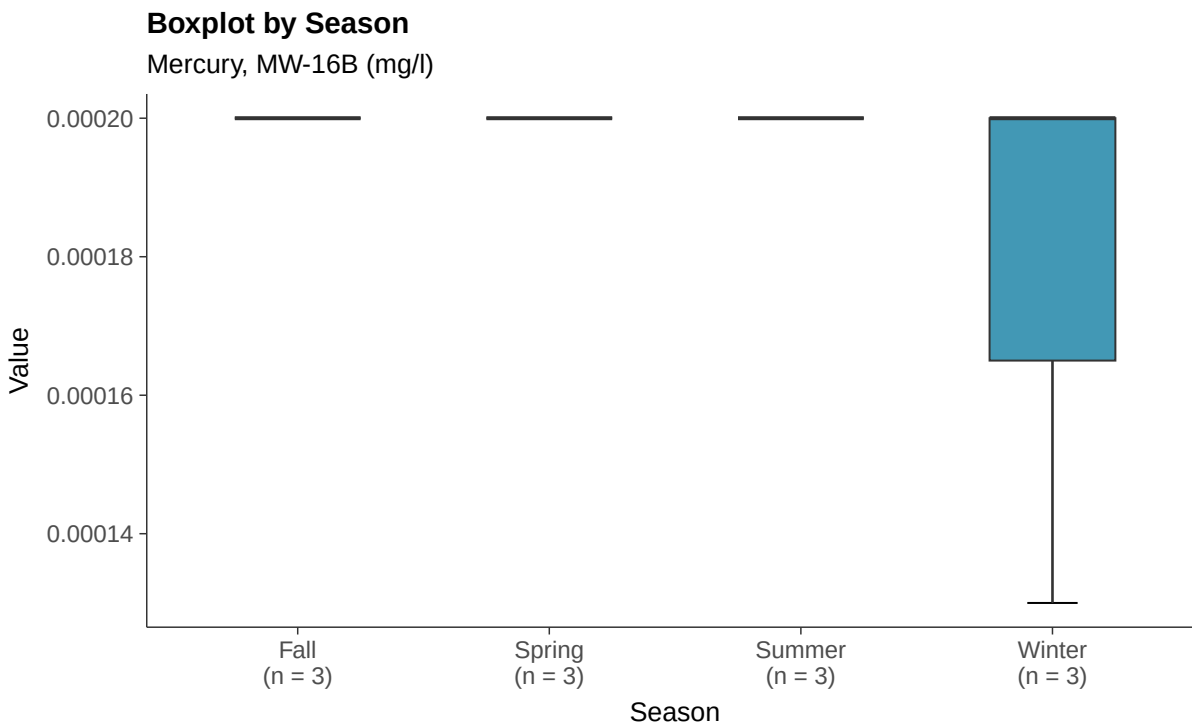
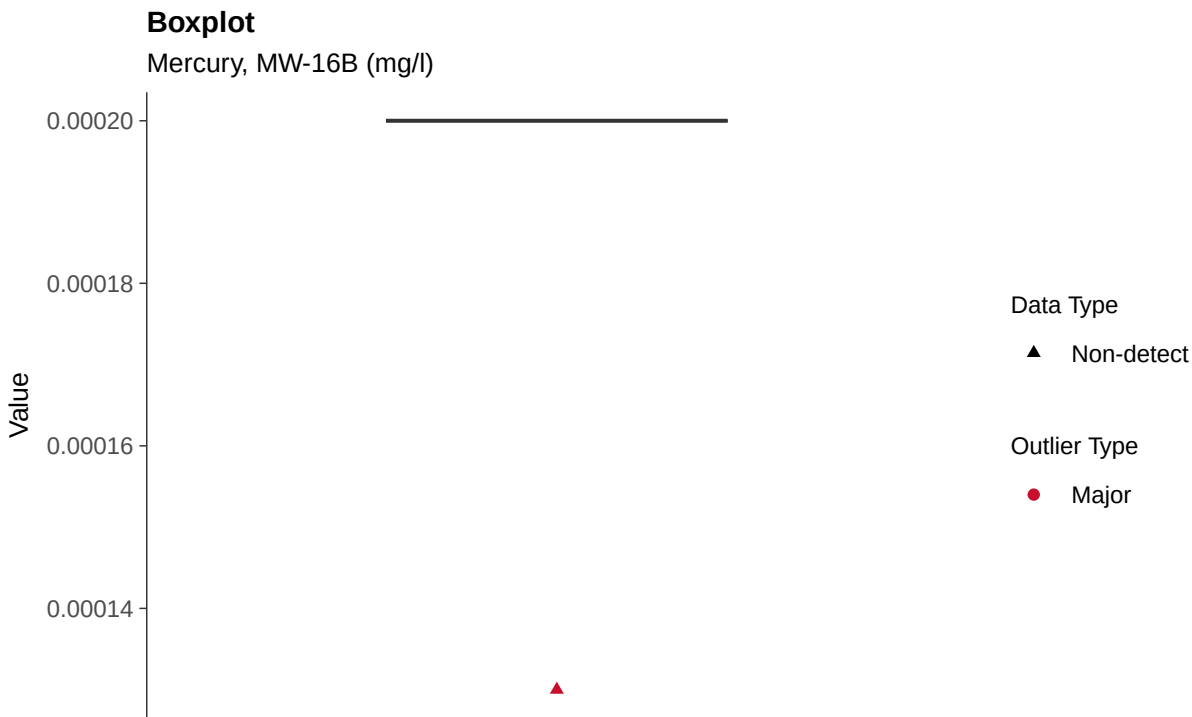




Appendix IV: Mercury, MW-16B

ID: 24_3_117

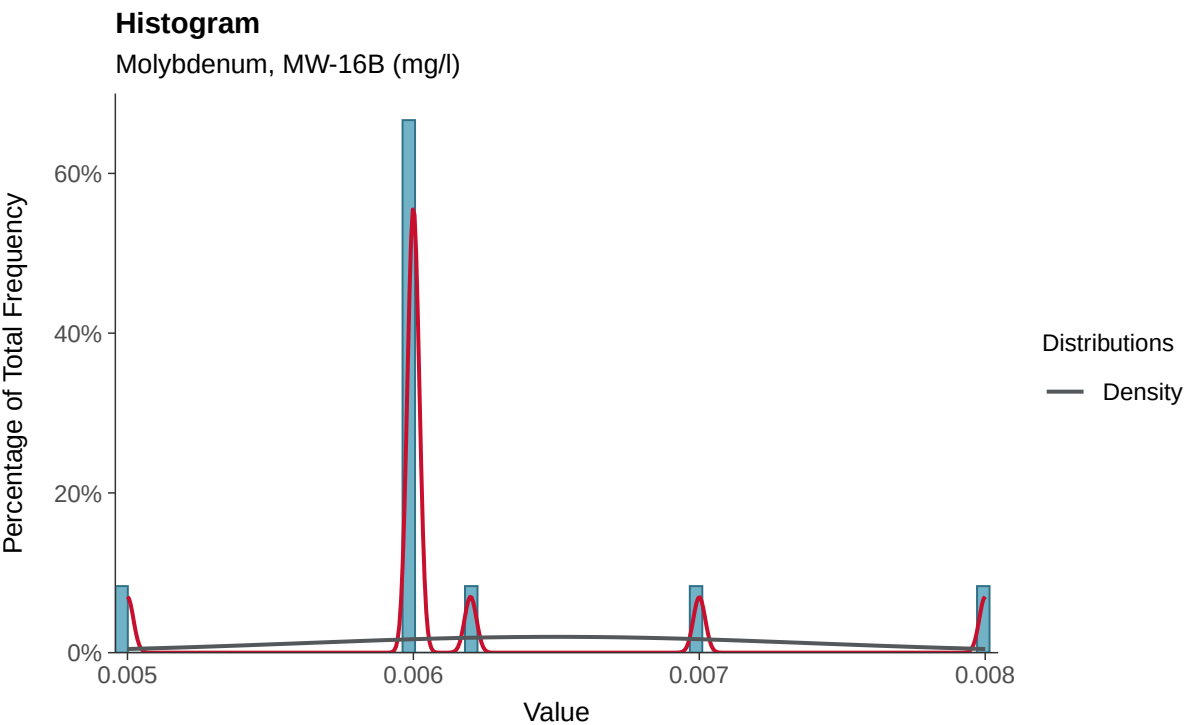
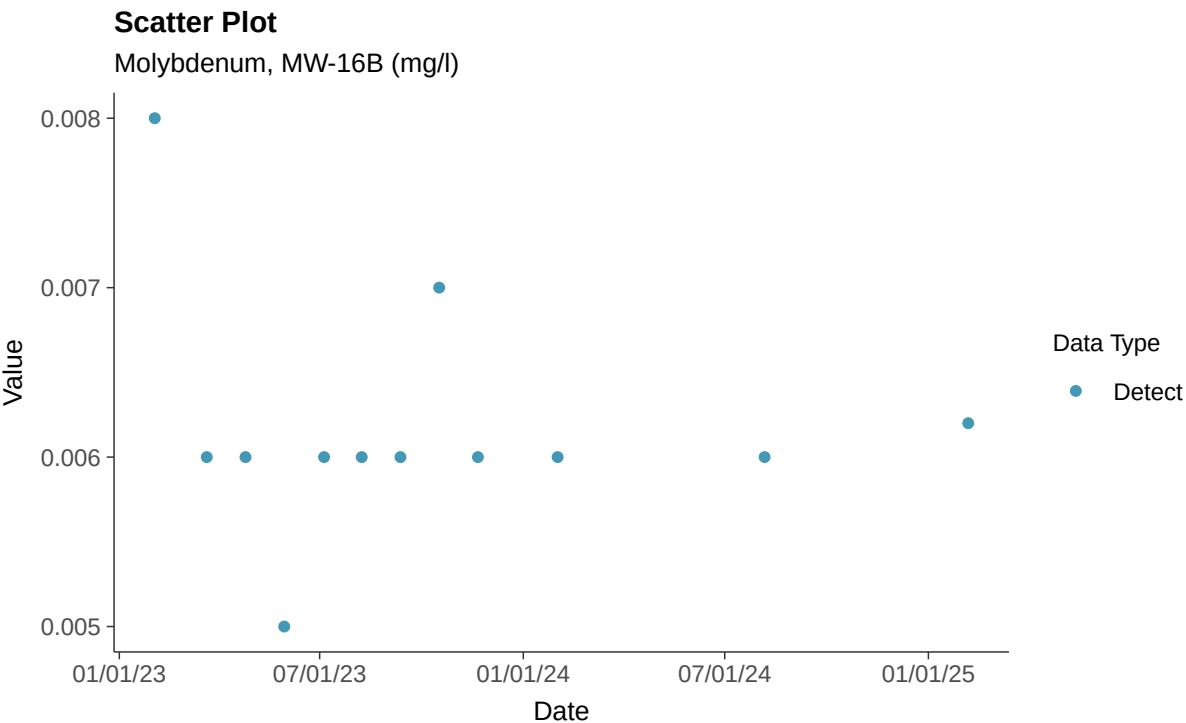


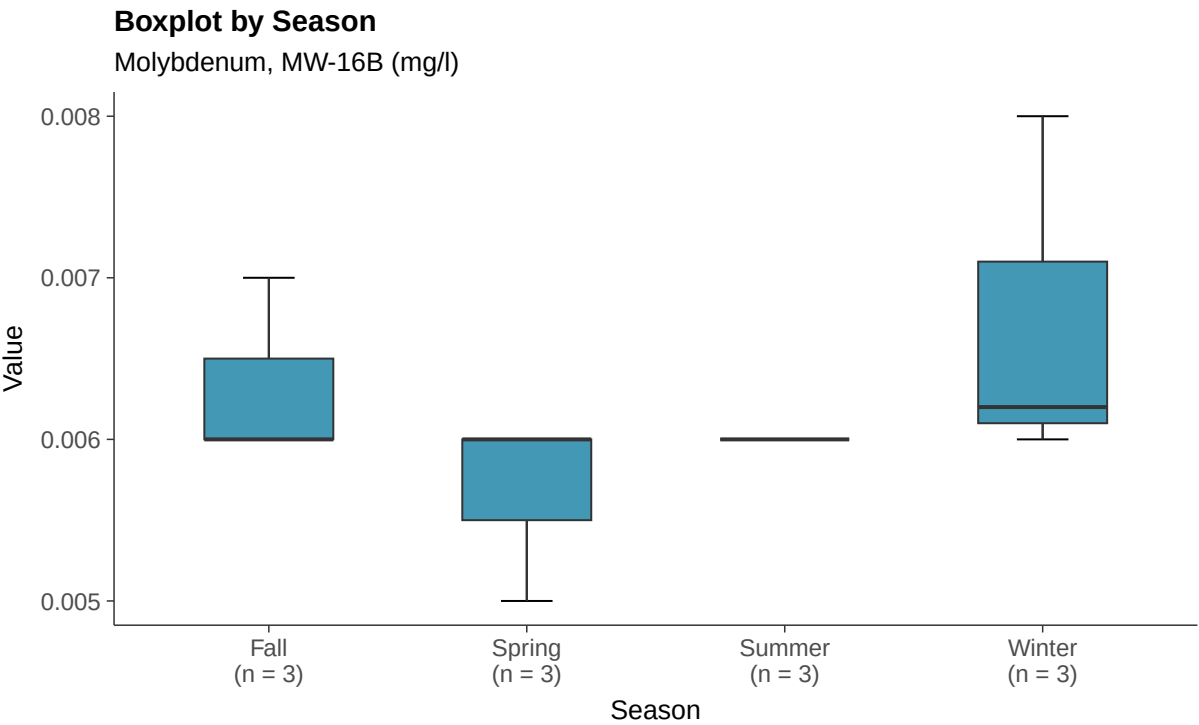
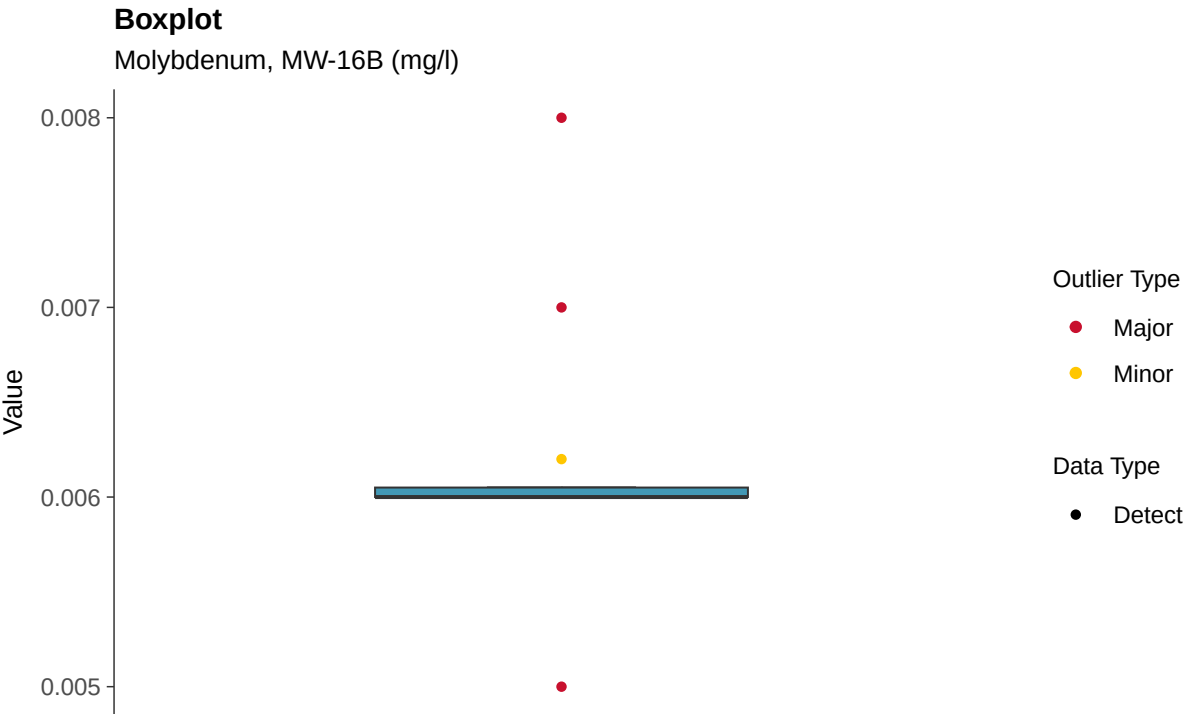


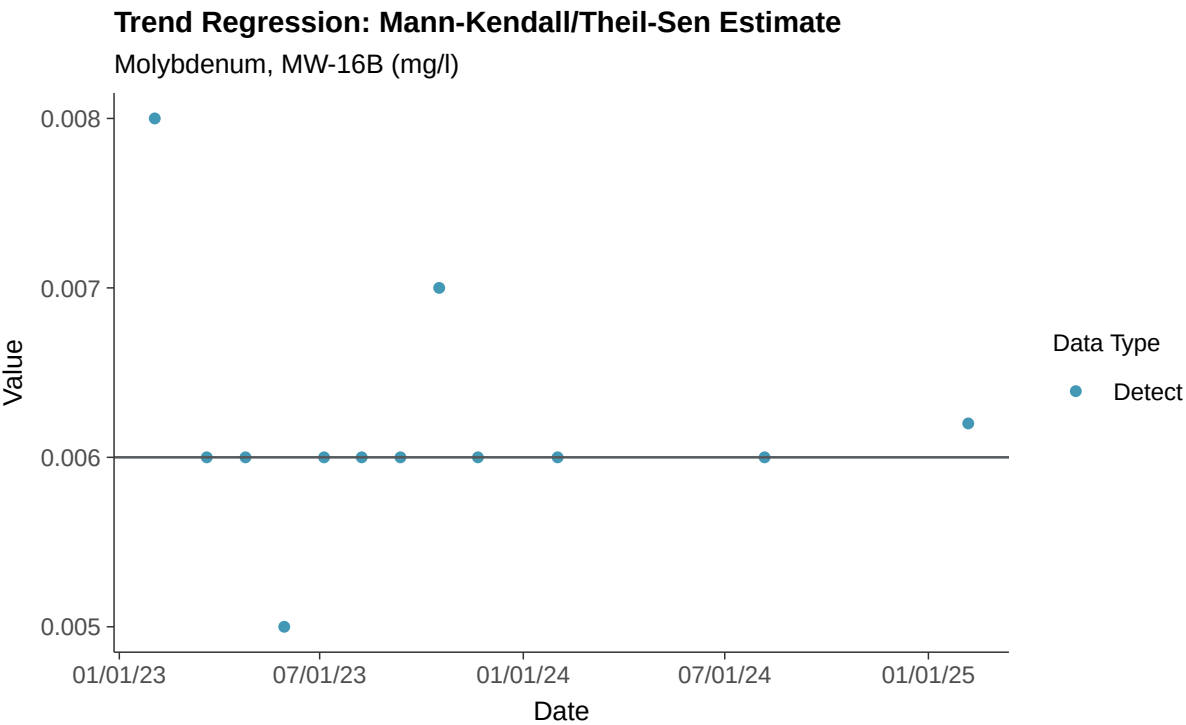
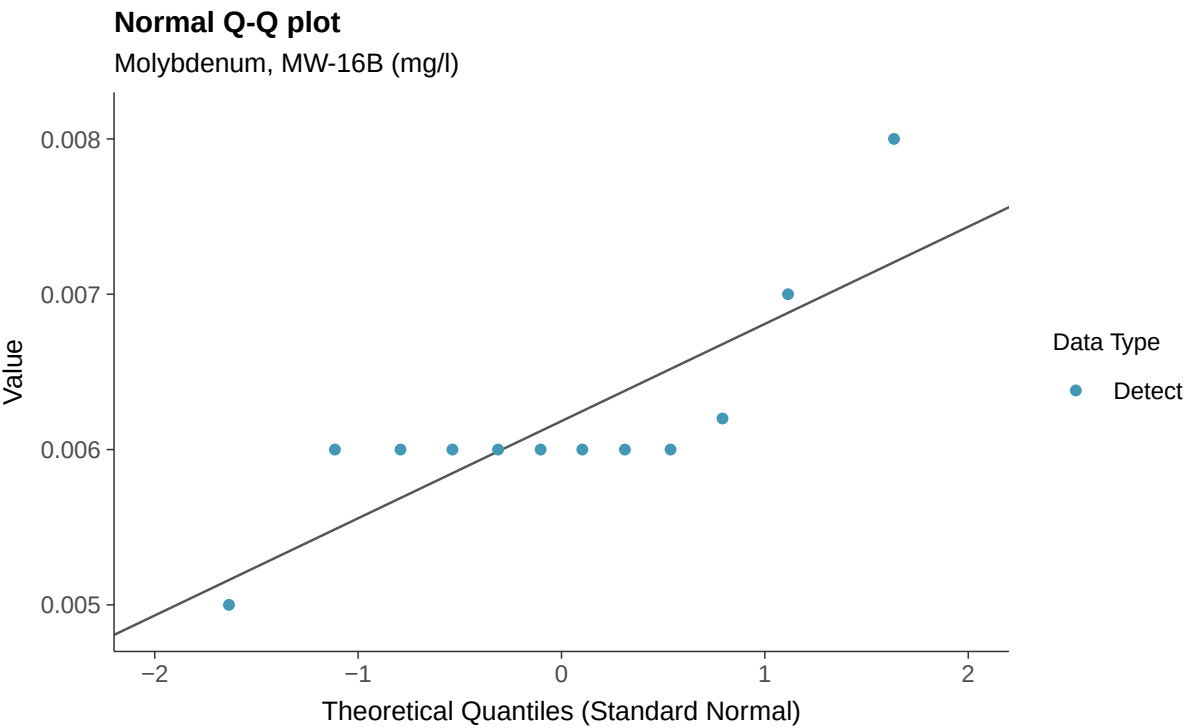


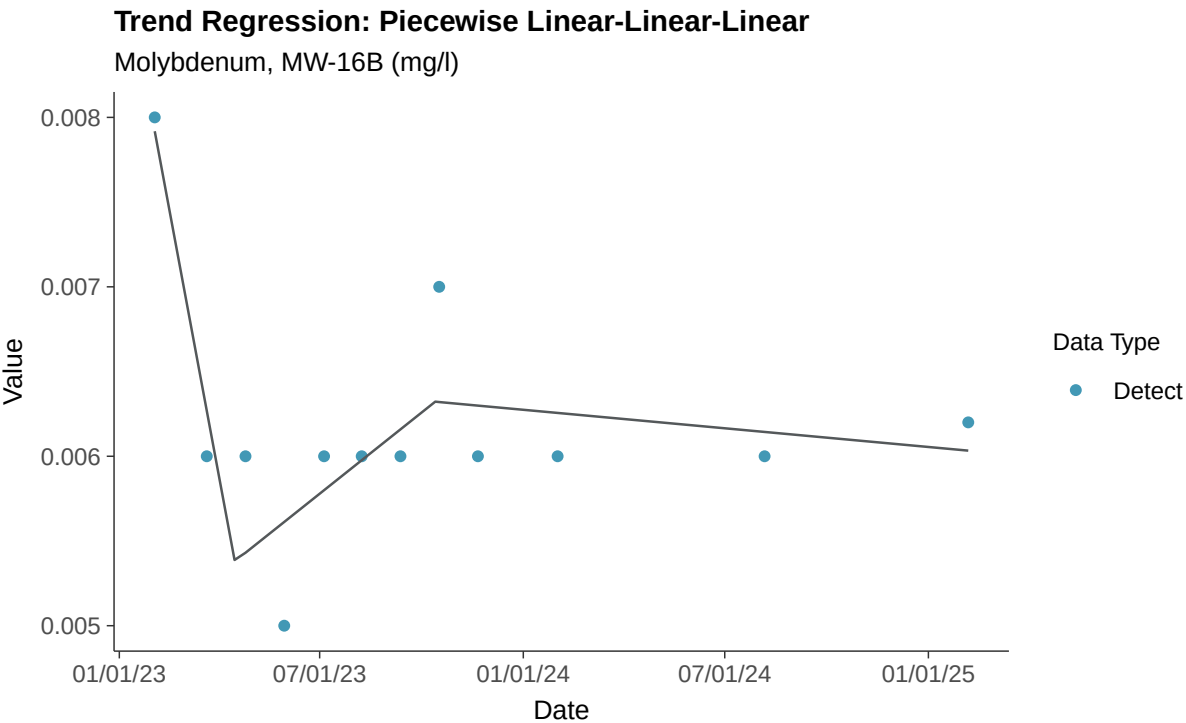
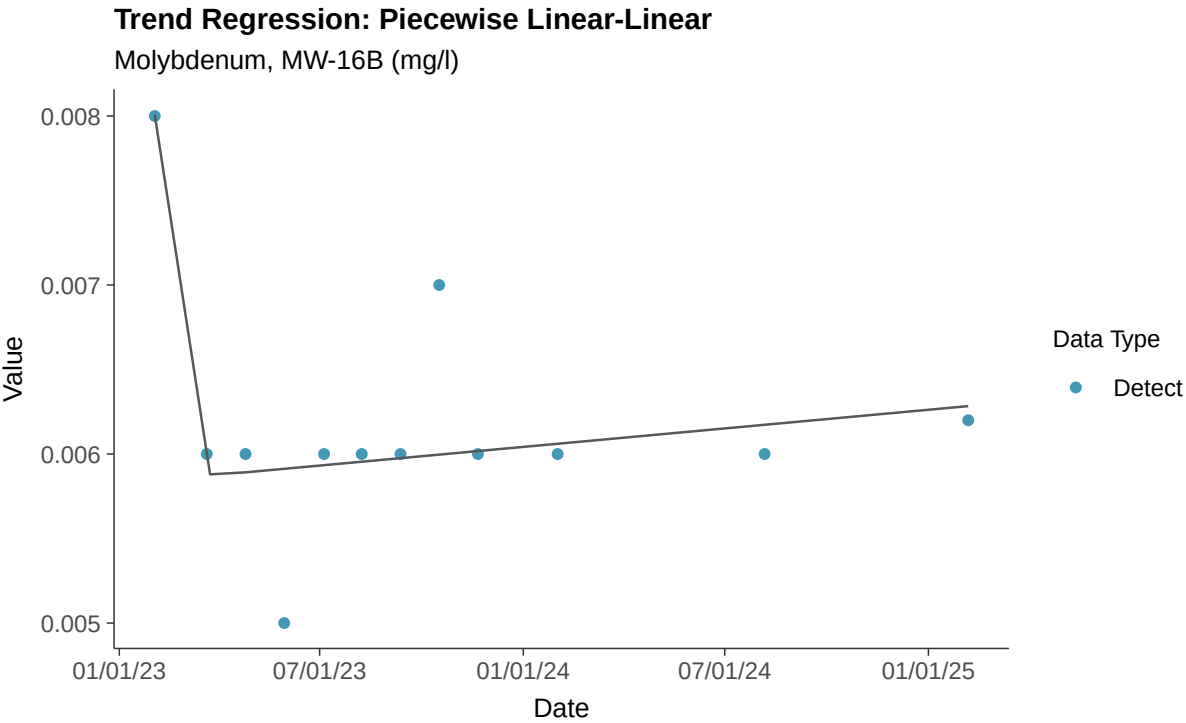
Appendix IV: Molybdenum, MW-16B

ID: 24_3_118





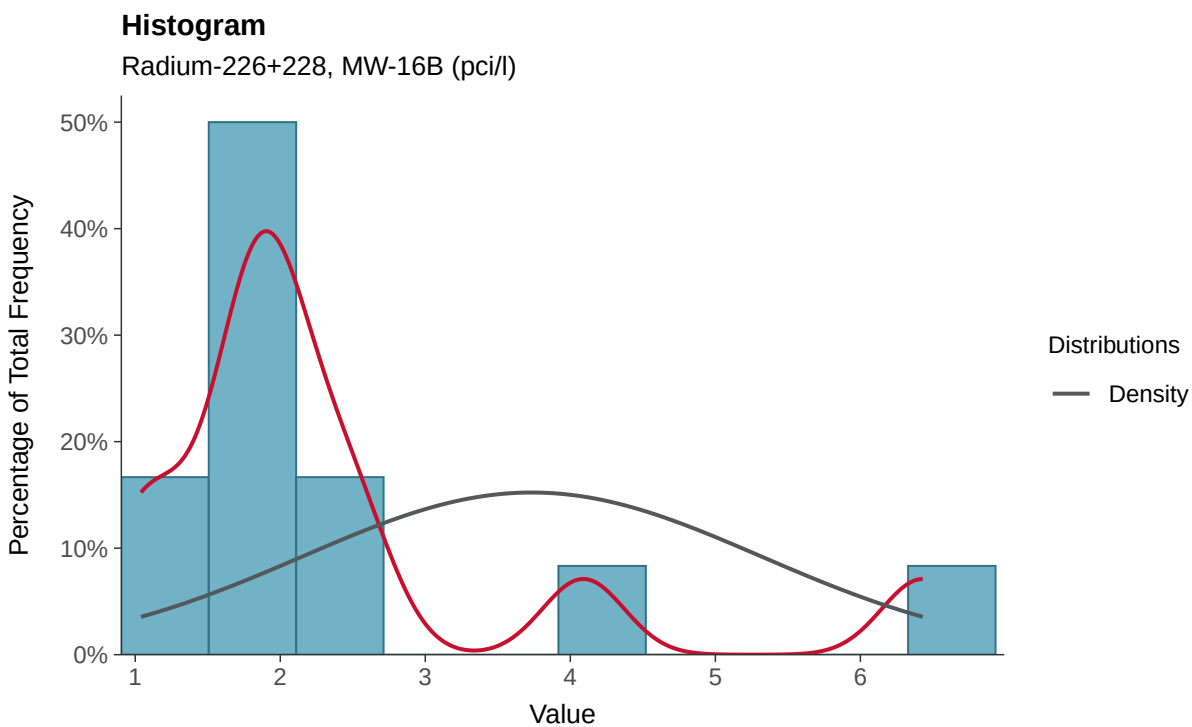
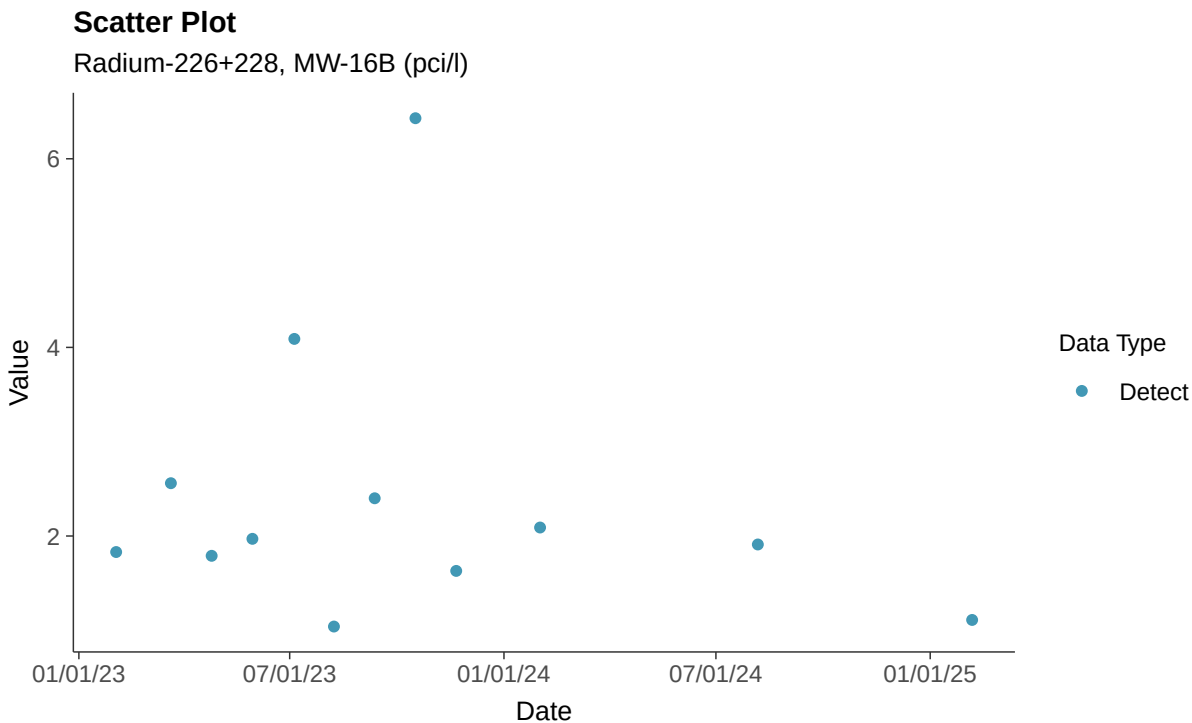






Appendix IV: Radium-226+228, MW-16B

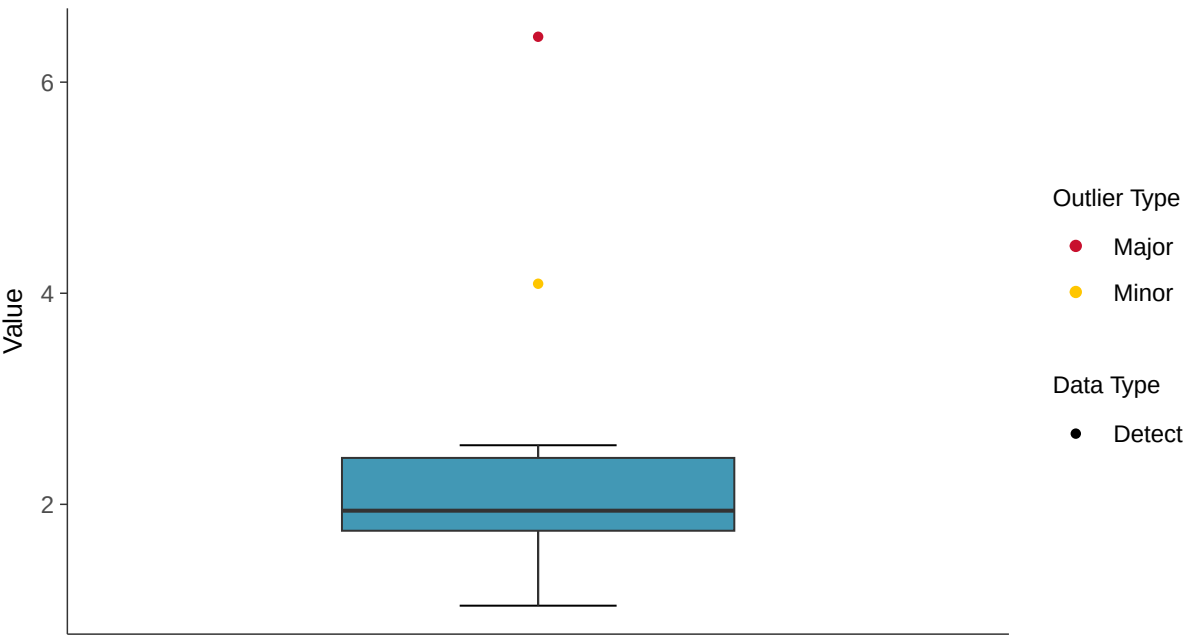
ID: 24_3_121





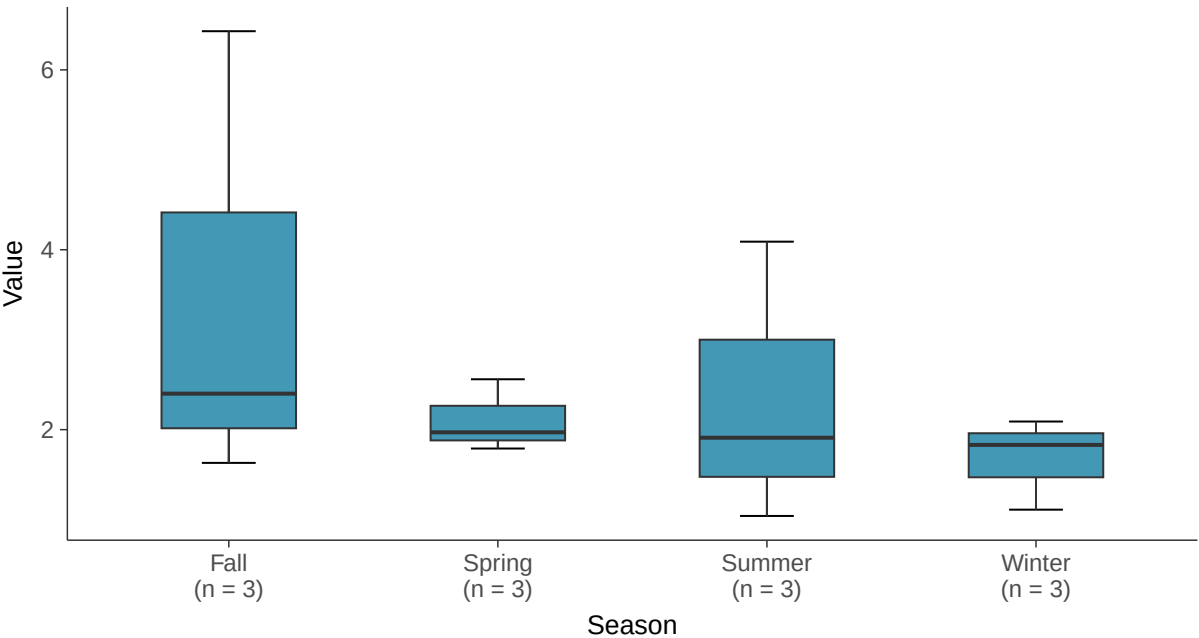
Boxplot

Radium-226+228, MW-16B (pci/l)



Boxplot by Season

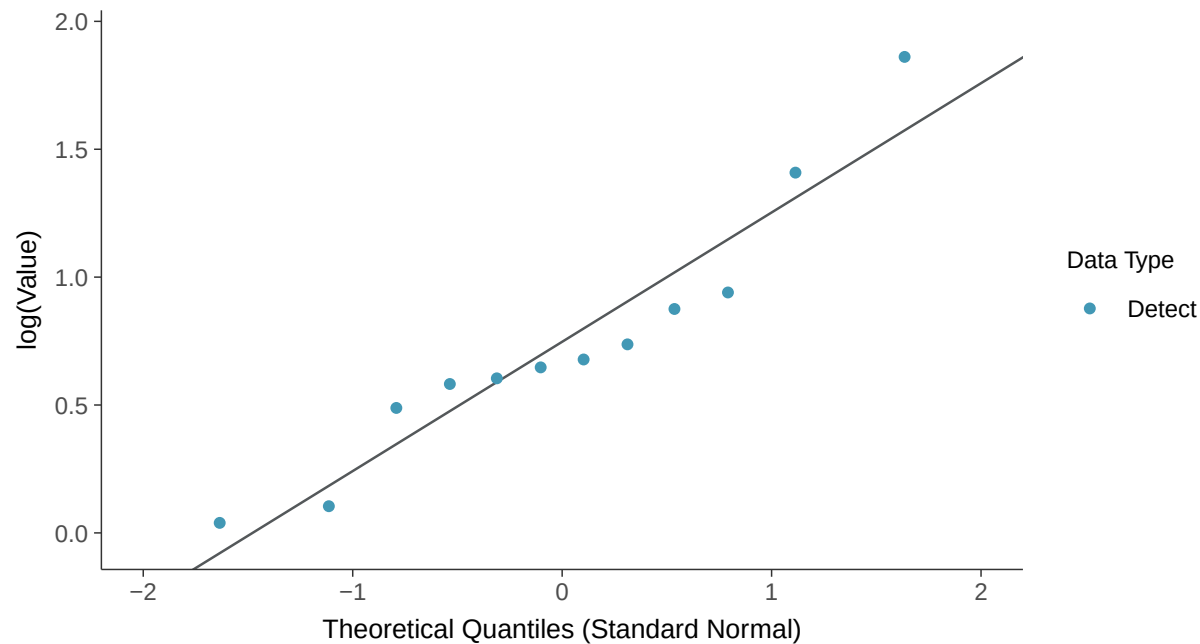
Radium-226+228, MW-16B (pci/l)





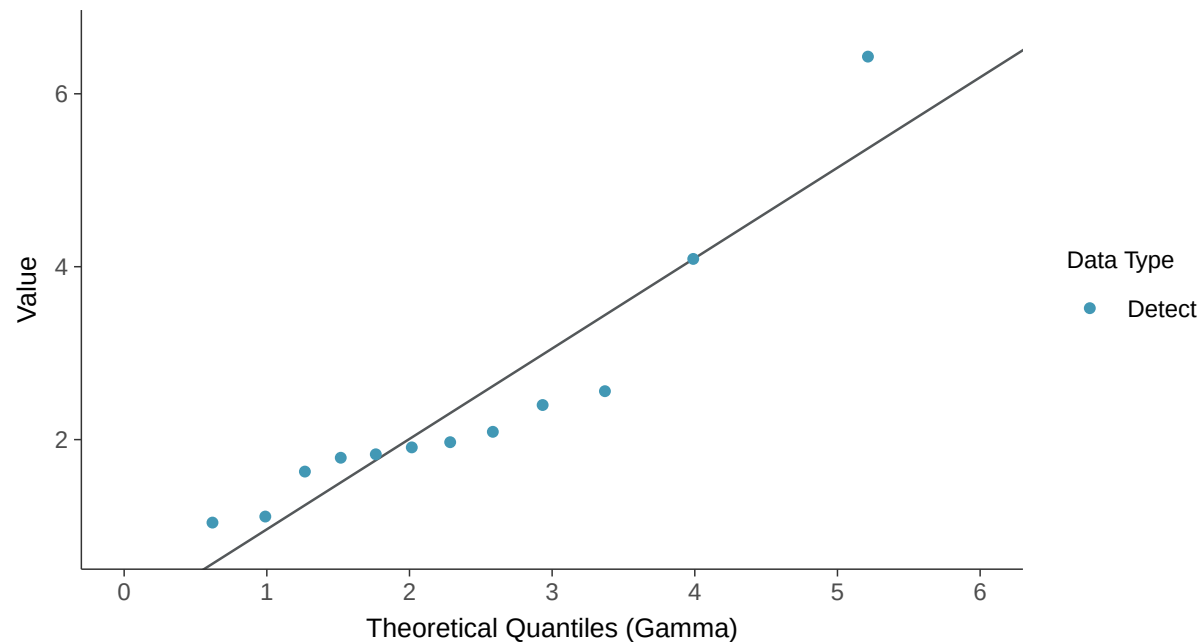
Lognormal Q-Q plot

Radium-226+228, MW-16B (pci/l)



Gamma Q-Q plot

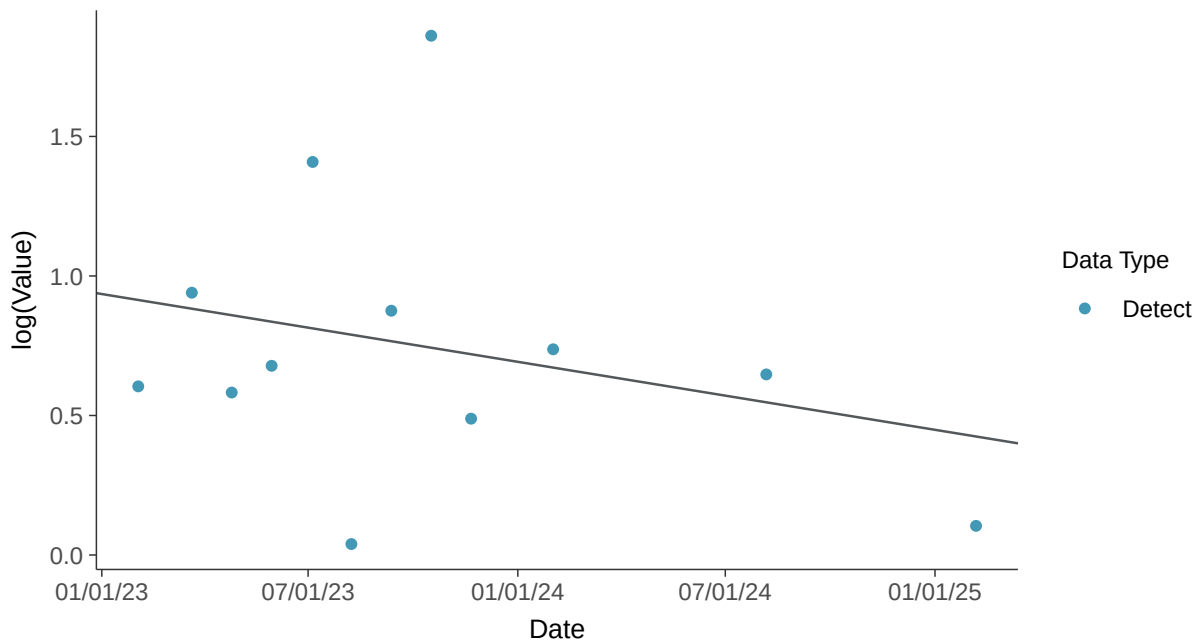
Radium-226+228, MW-16B (pci/l)





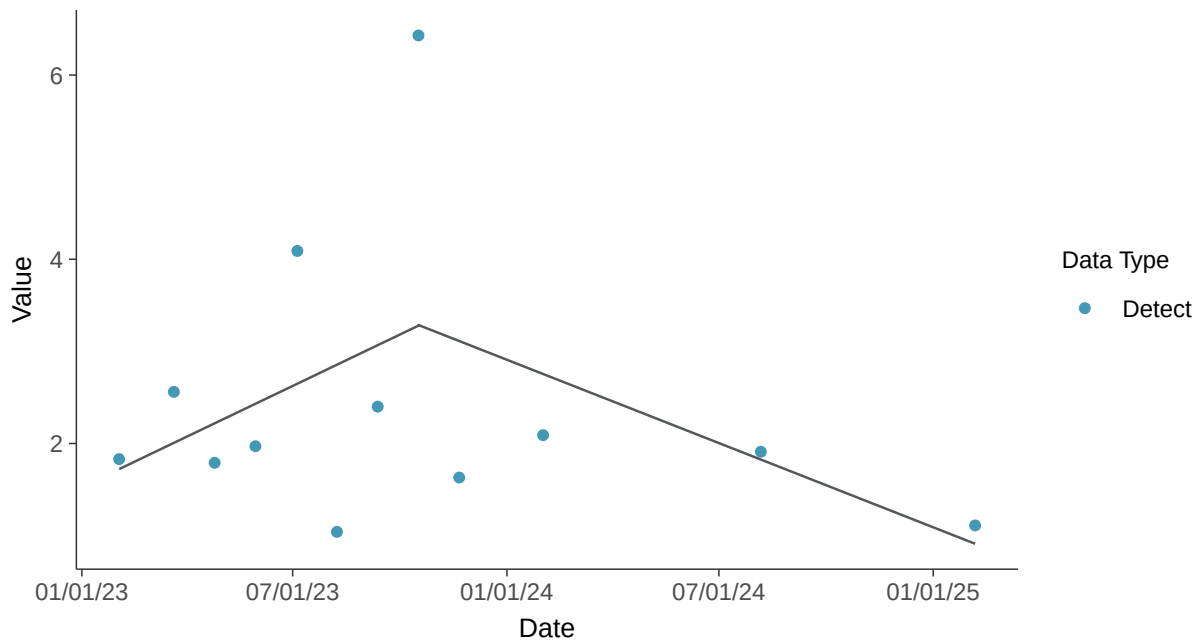
Trend Regression: Lognormal MLE

Radium-226+228, MW-16B (pci/l)



Trend Regression: Piecewise Linear-Linear

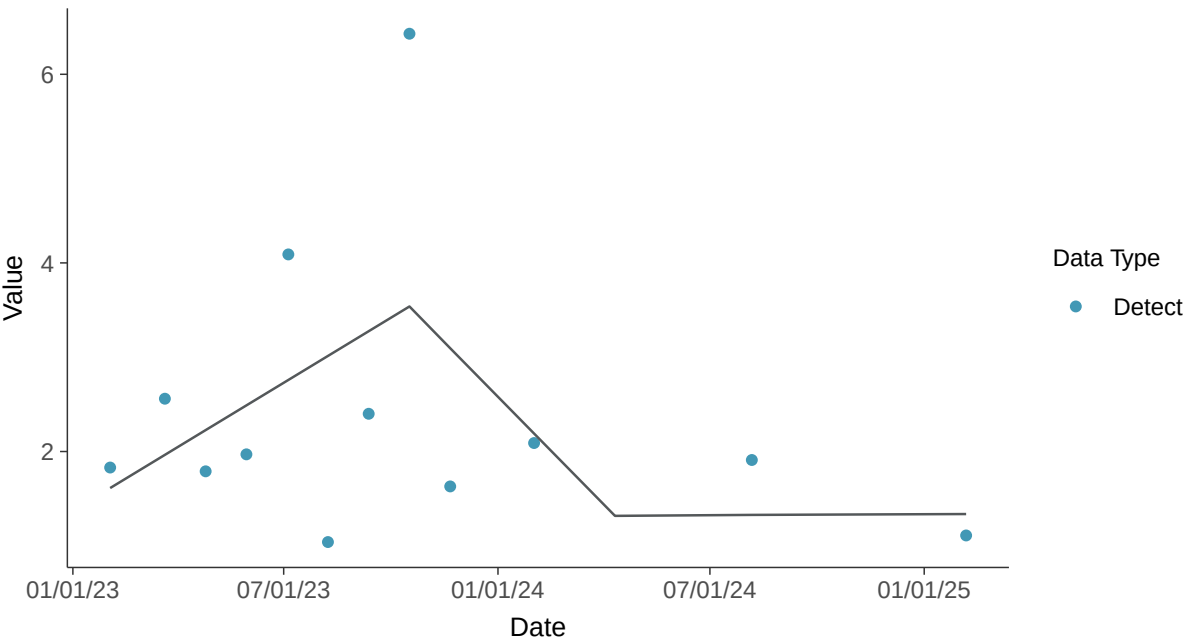
Radium-226+228, MW-16B (pci/l)





Trend Regression: Piecewise Linear-Linear-Linear

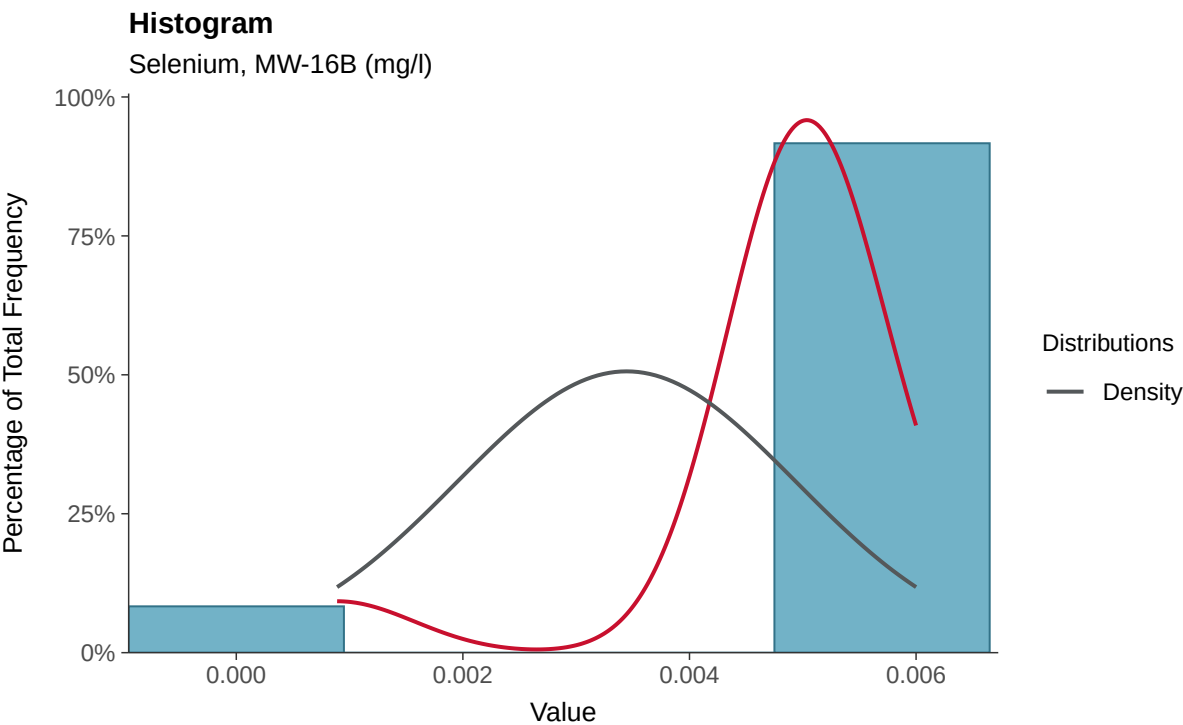
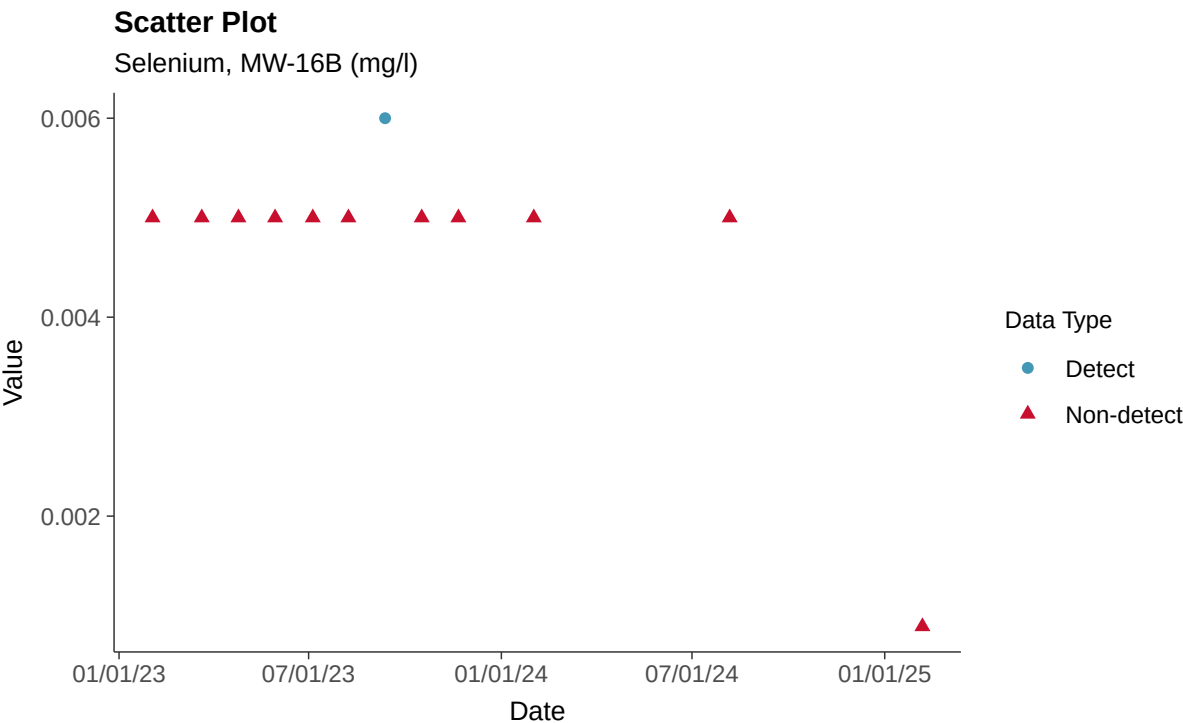
Radium-226+228, MW-16B (pci/l)

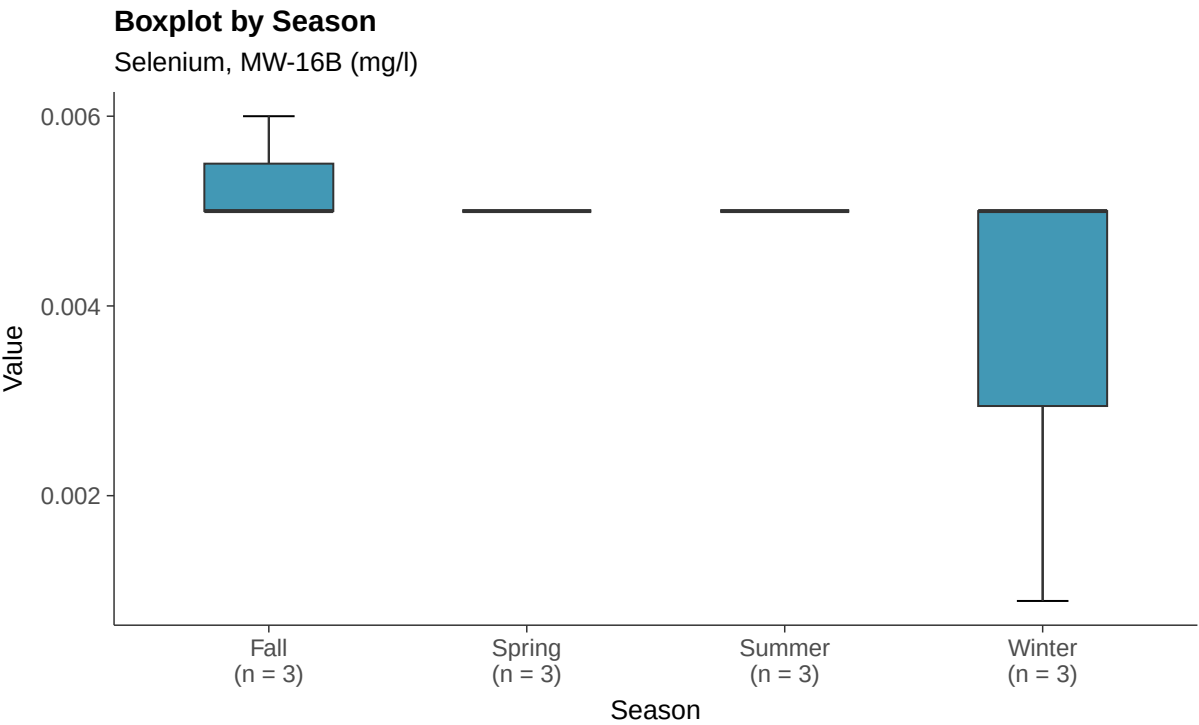
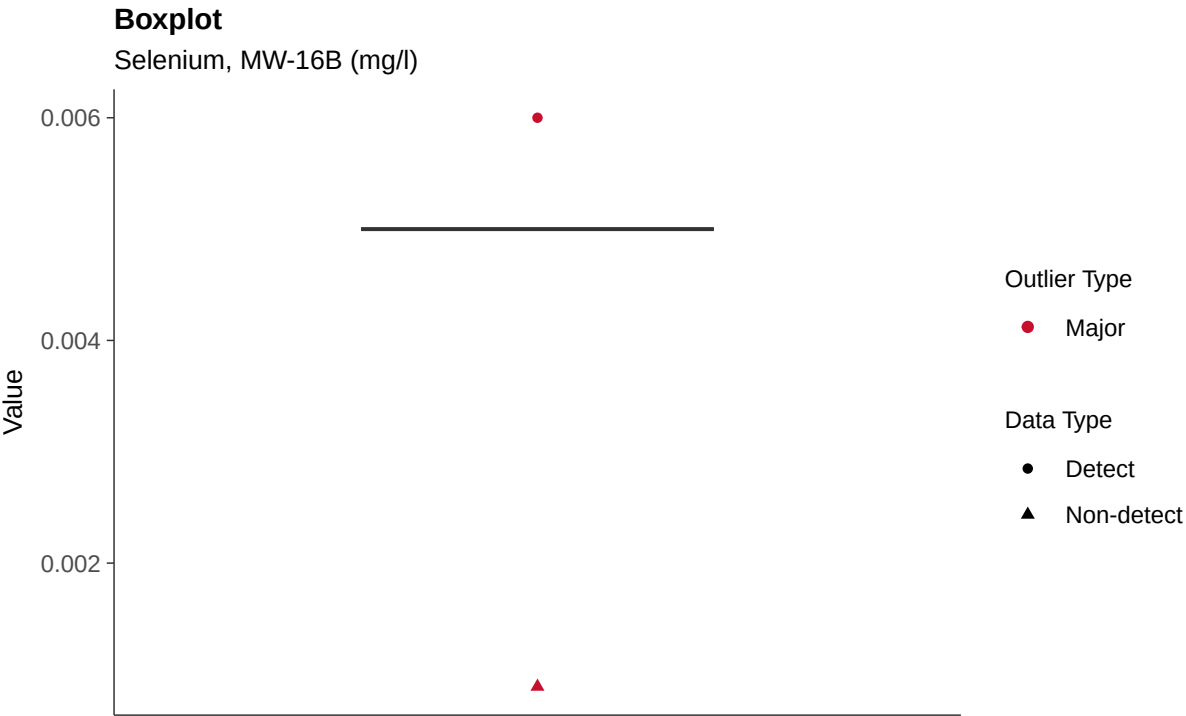


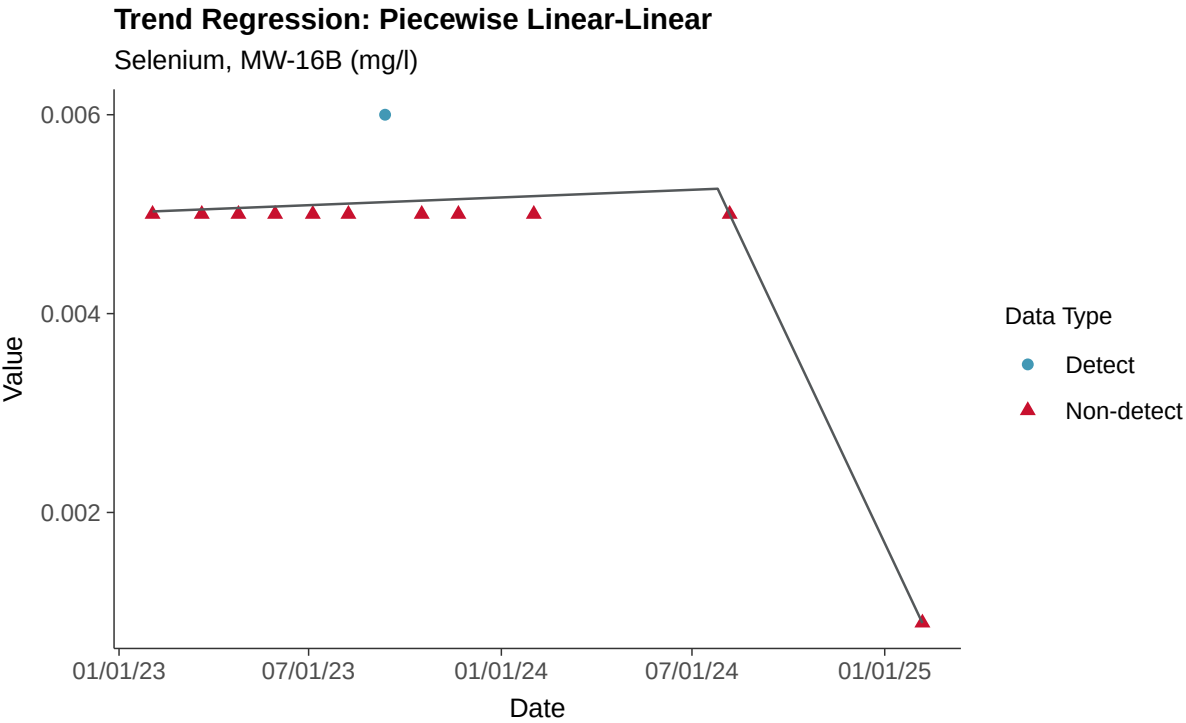


Appendix IV: Selenium, MW-16B

ID: 24_3_122



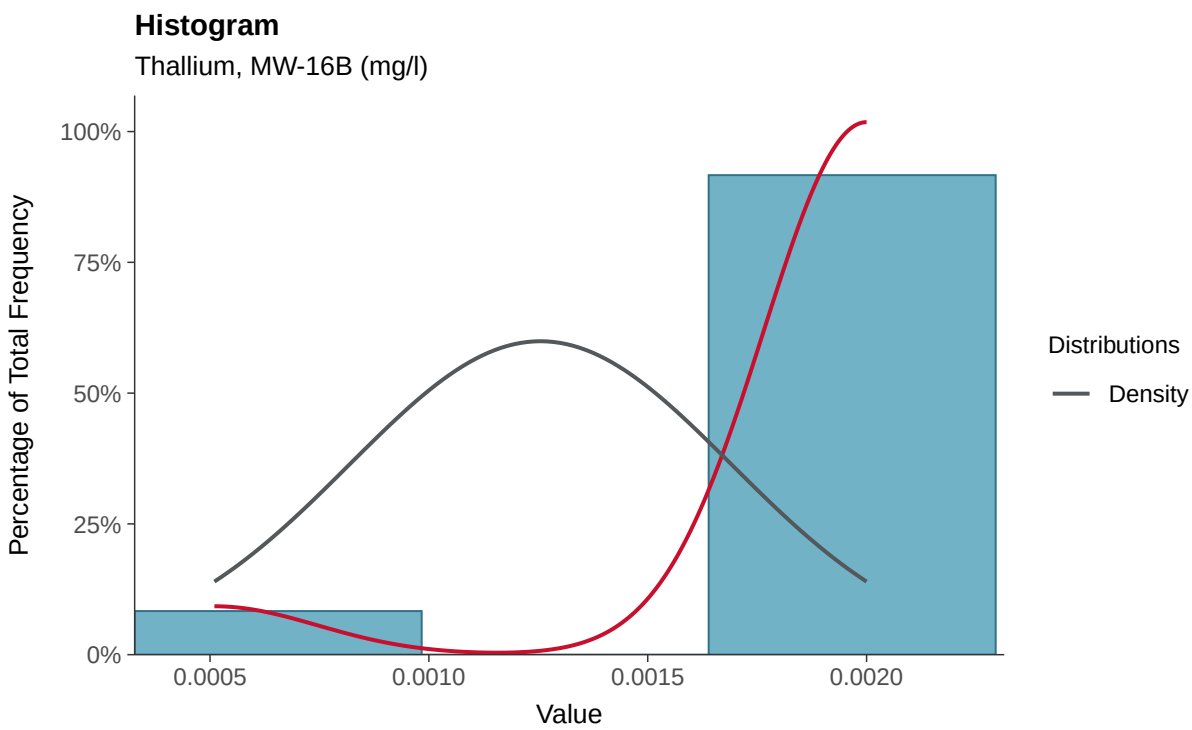
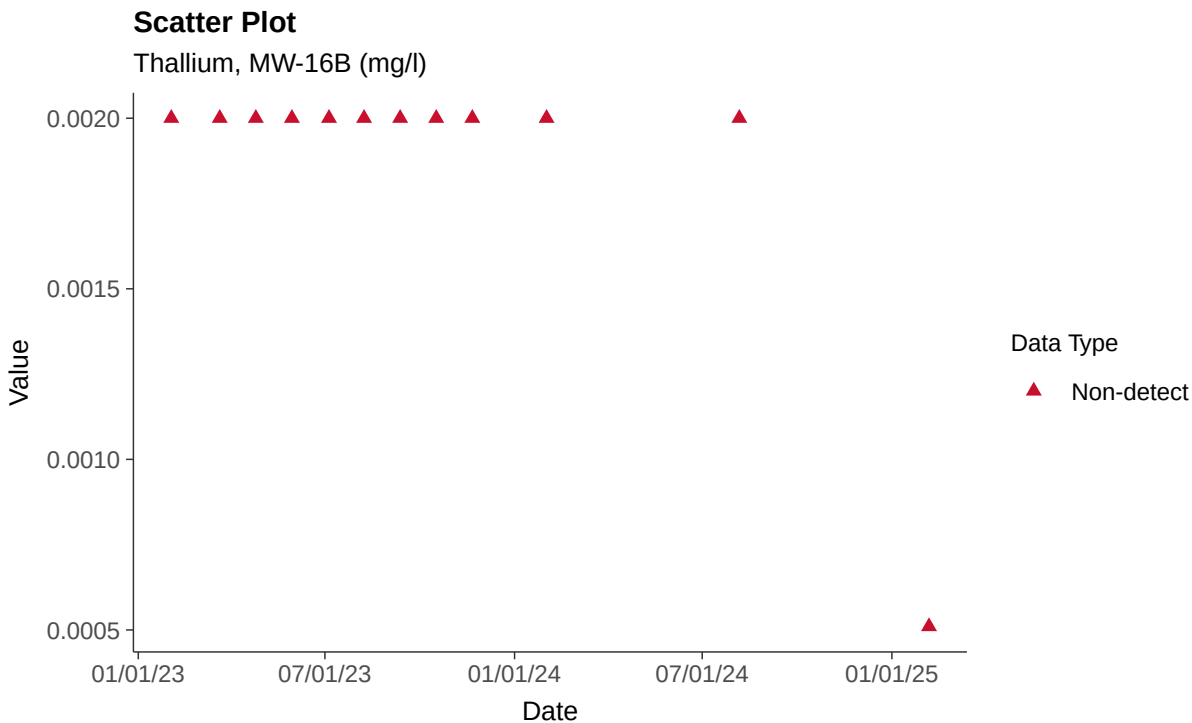


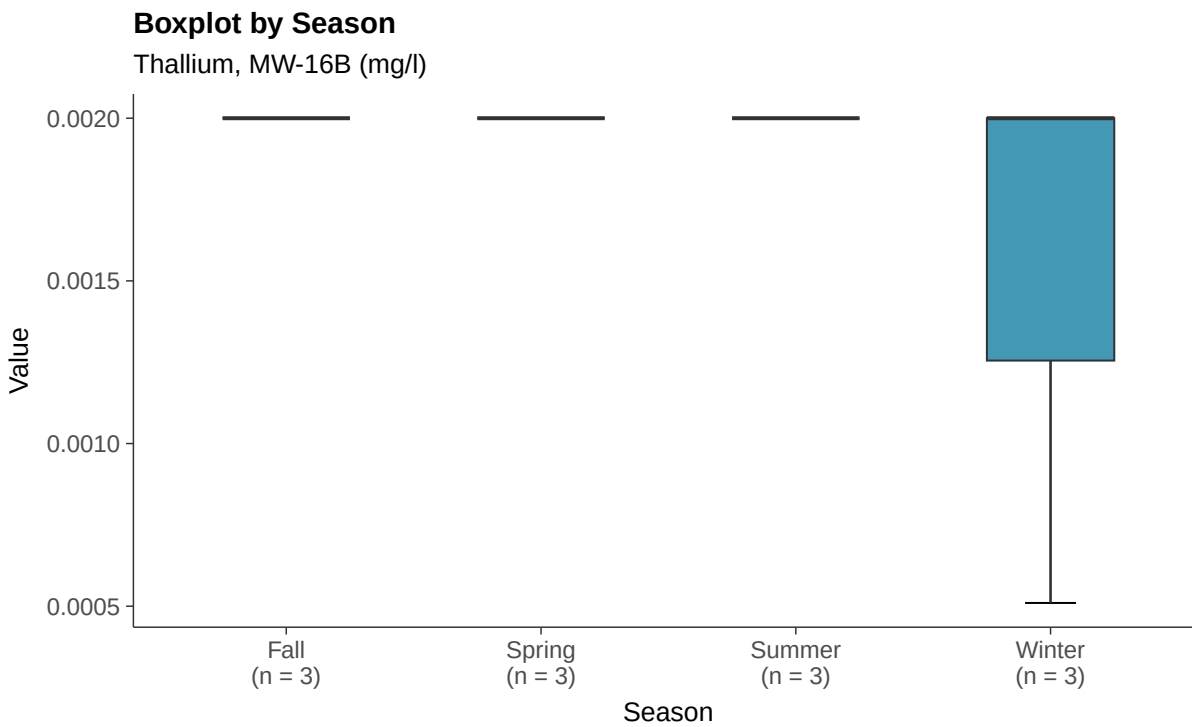
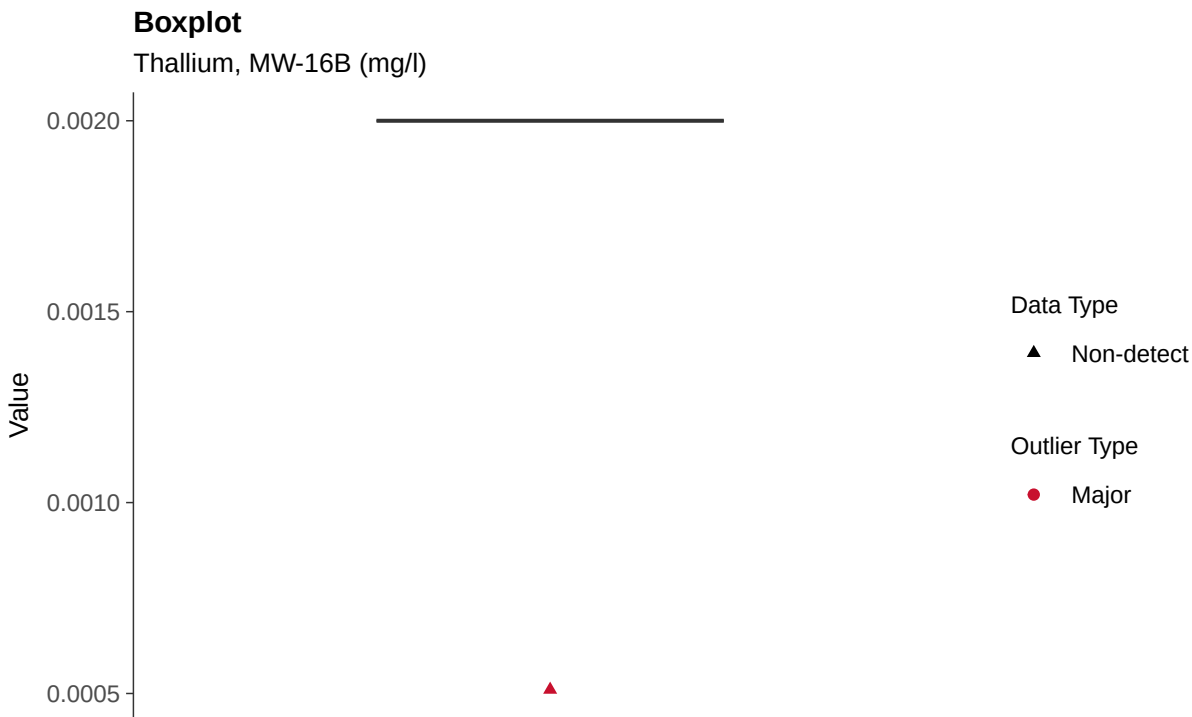




Appendix IV: Thallium, MW-16B

ID: 24_3_125

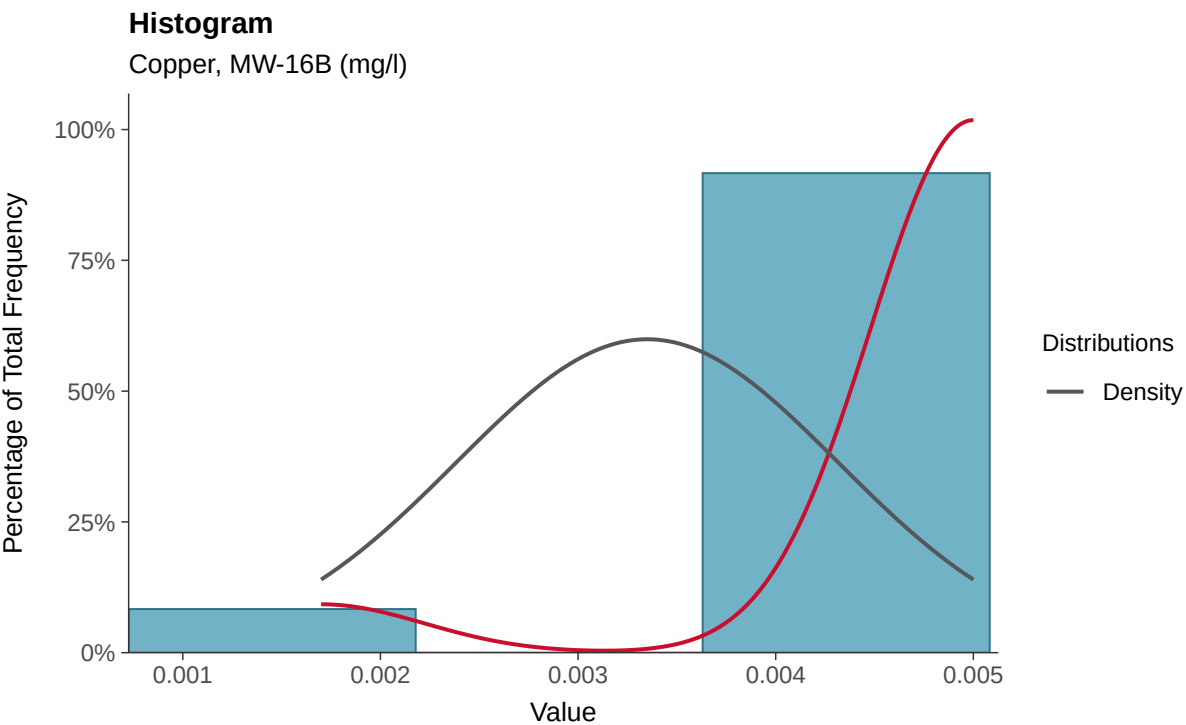
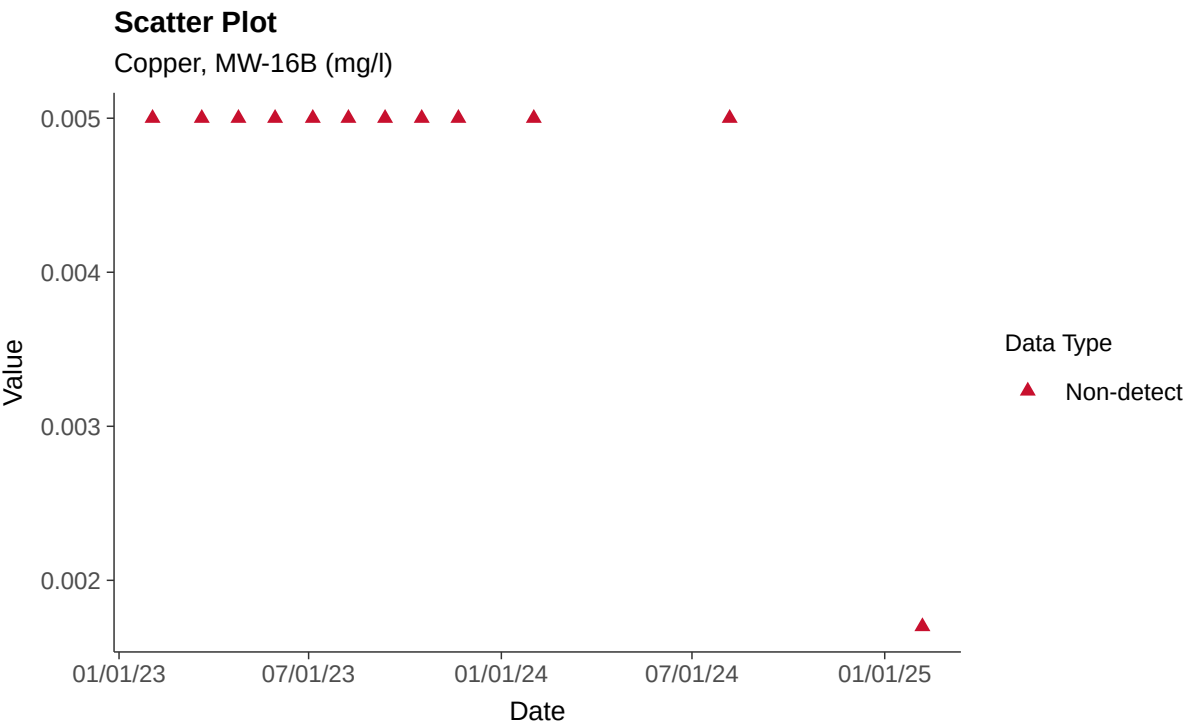


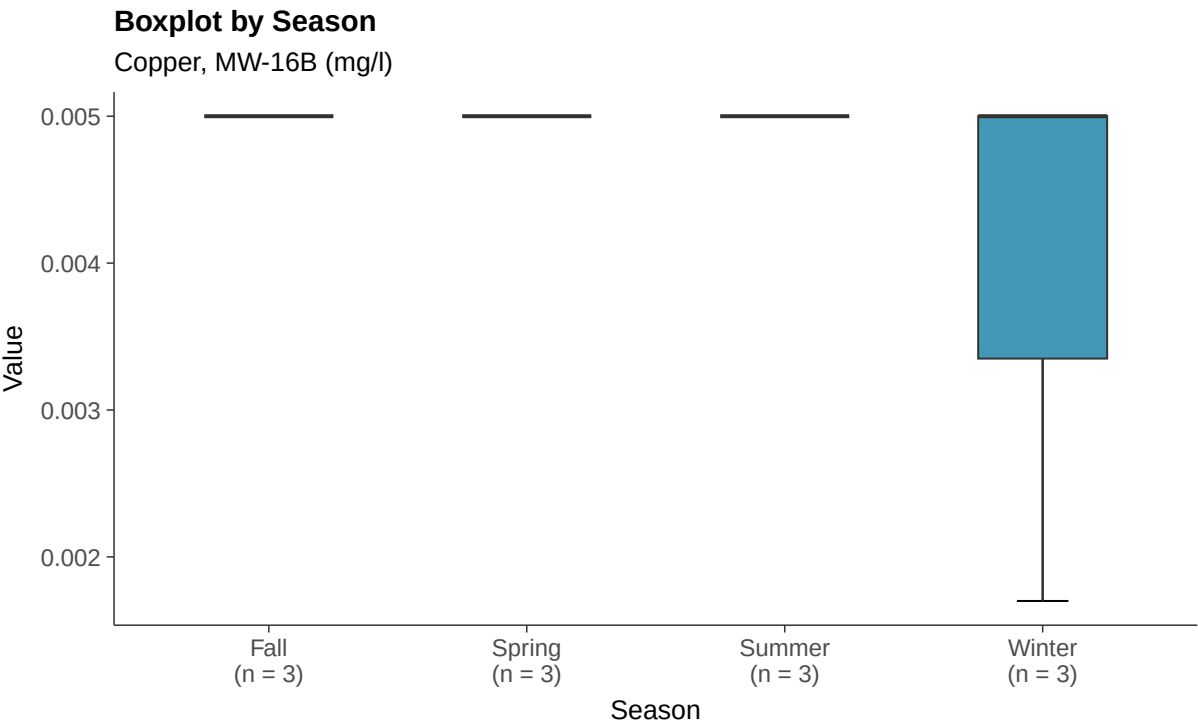
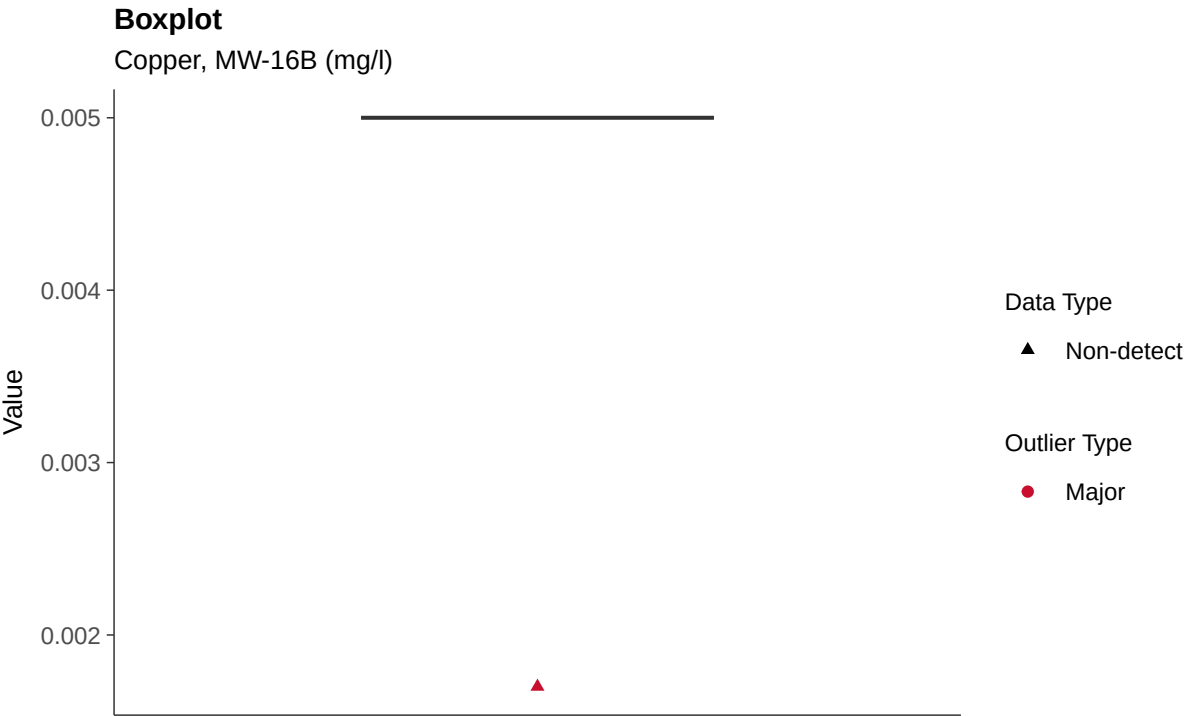




Part 115: Copper, MW-16B

ID: 24_5_111

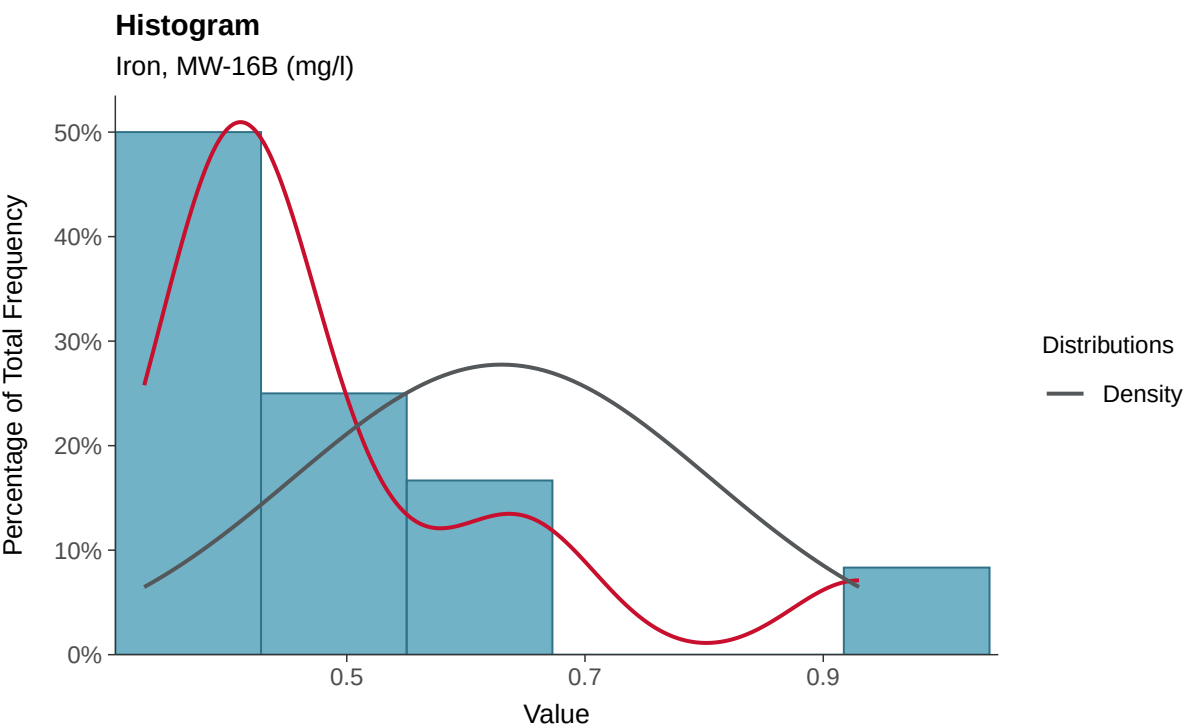
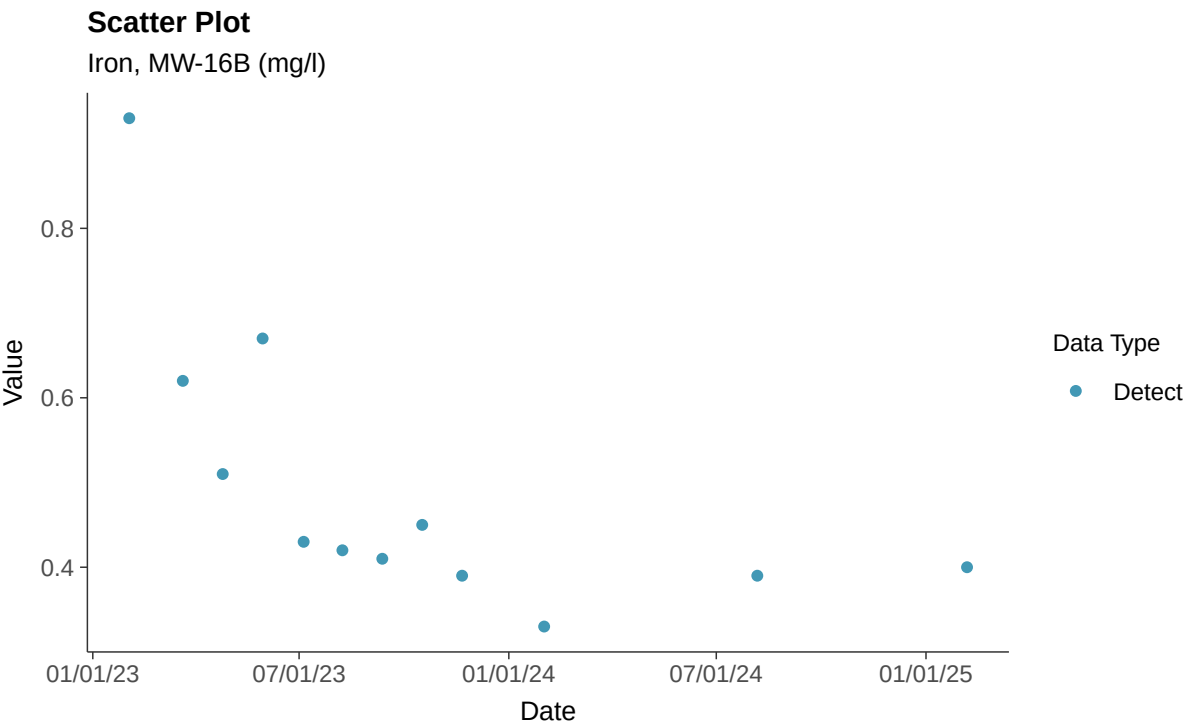


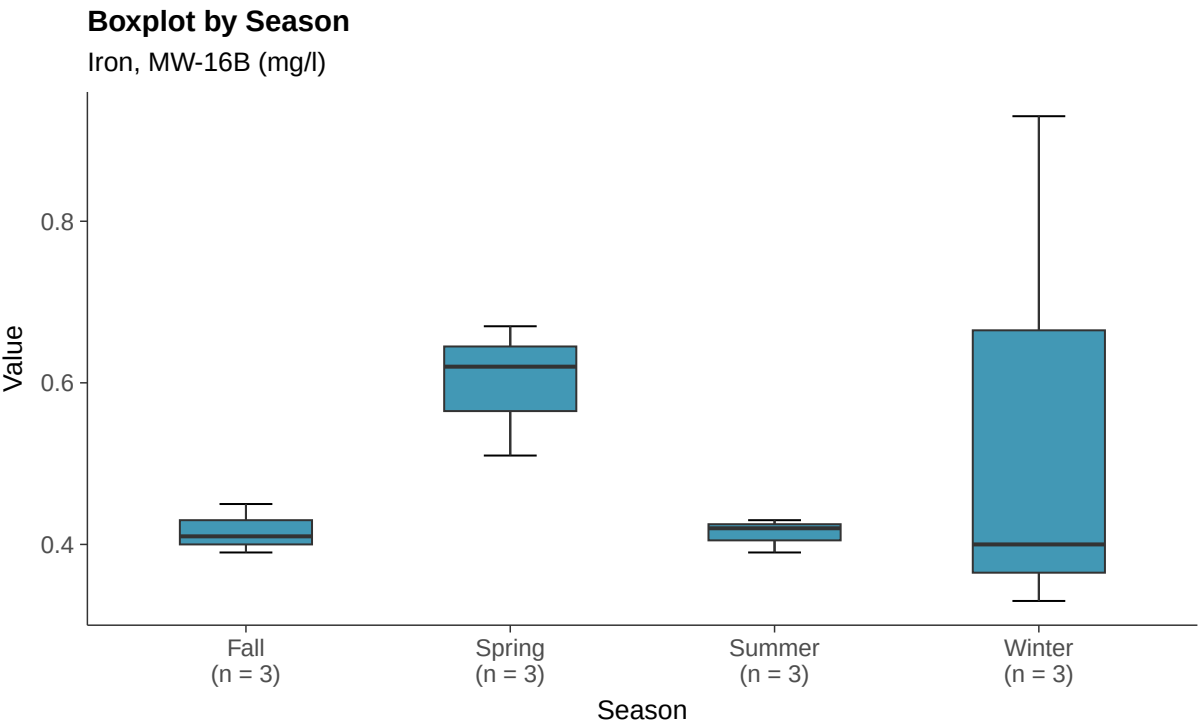
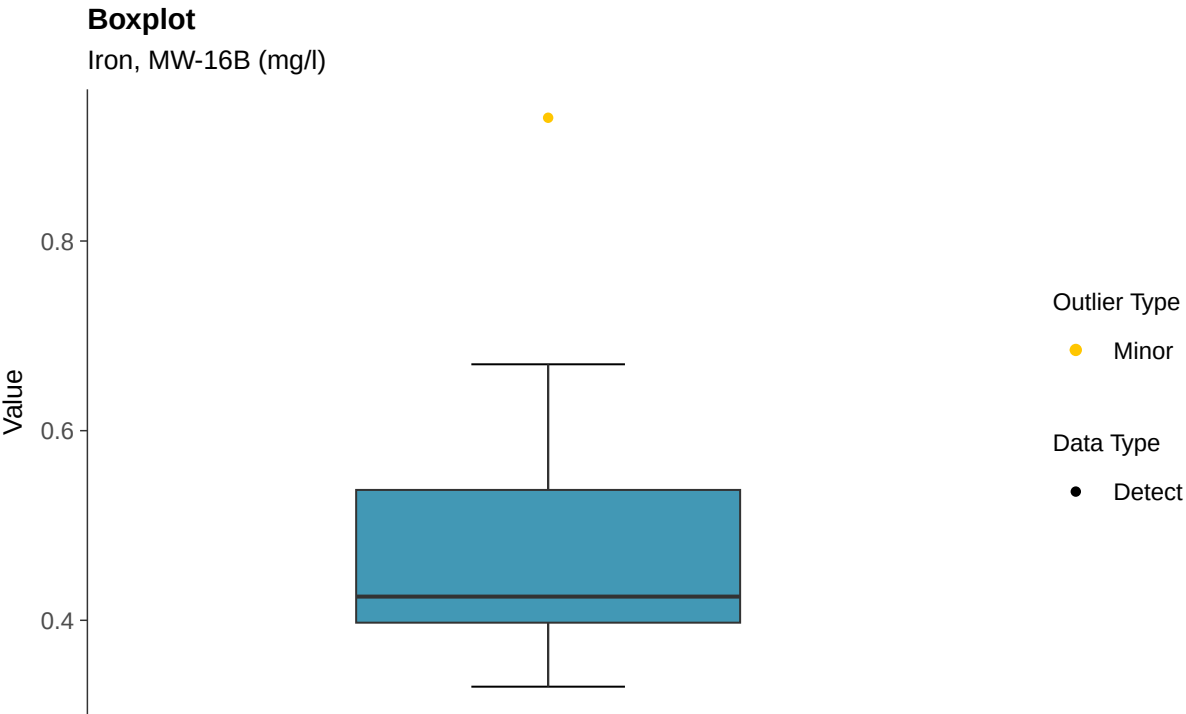


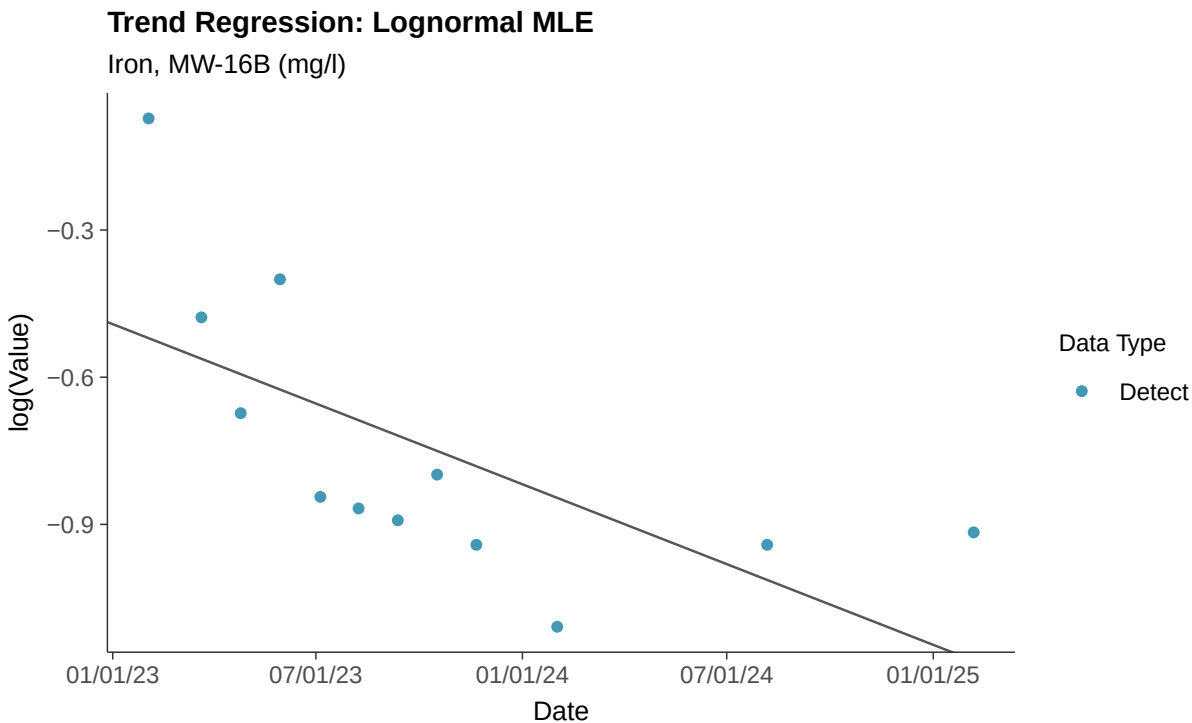
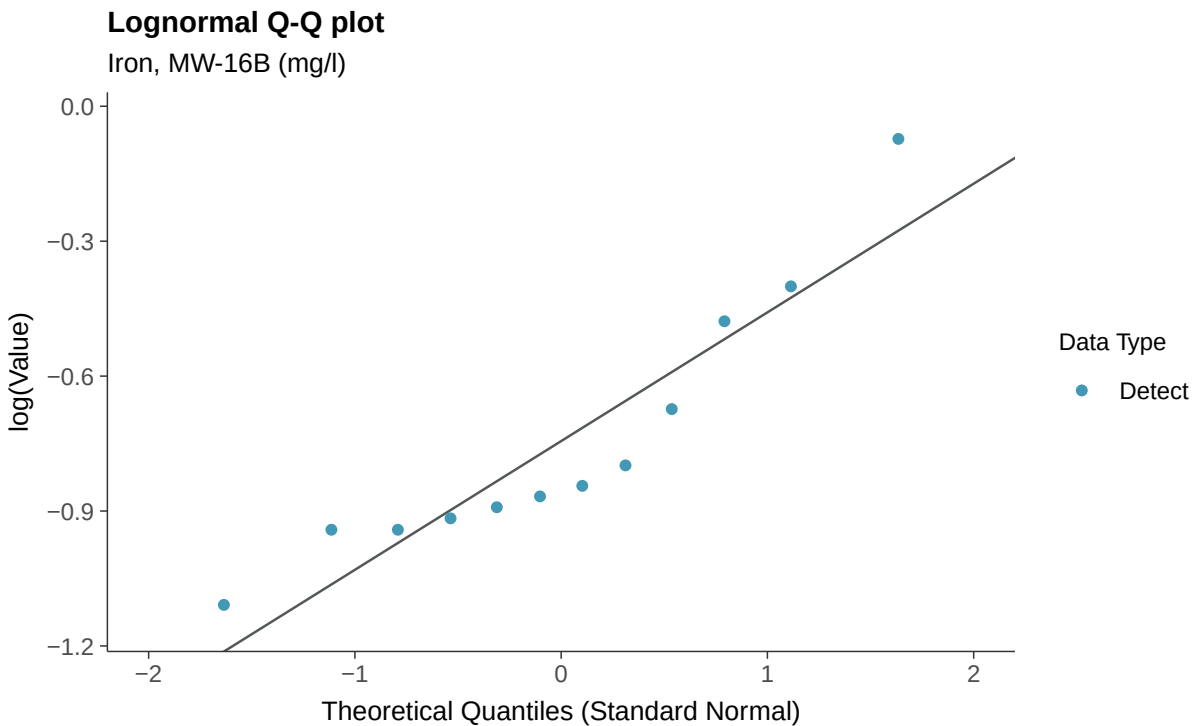


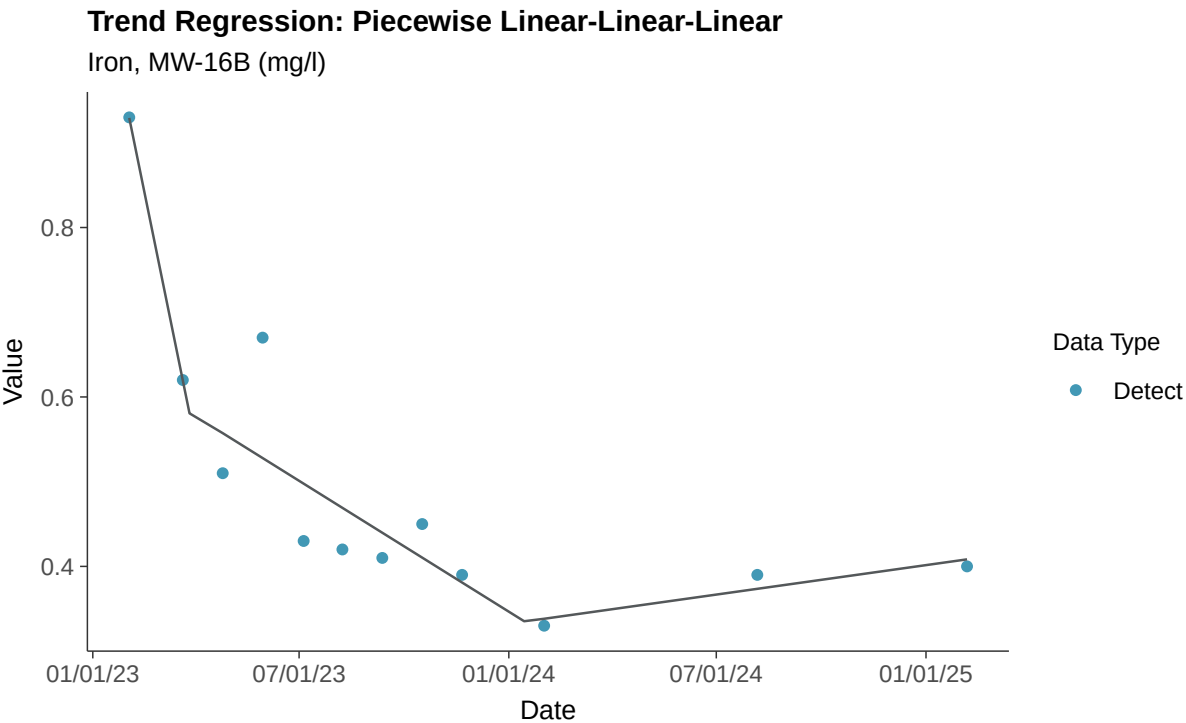
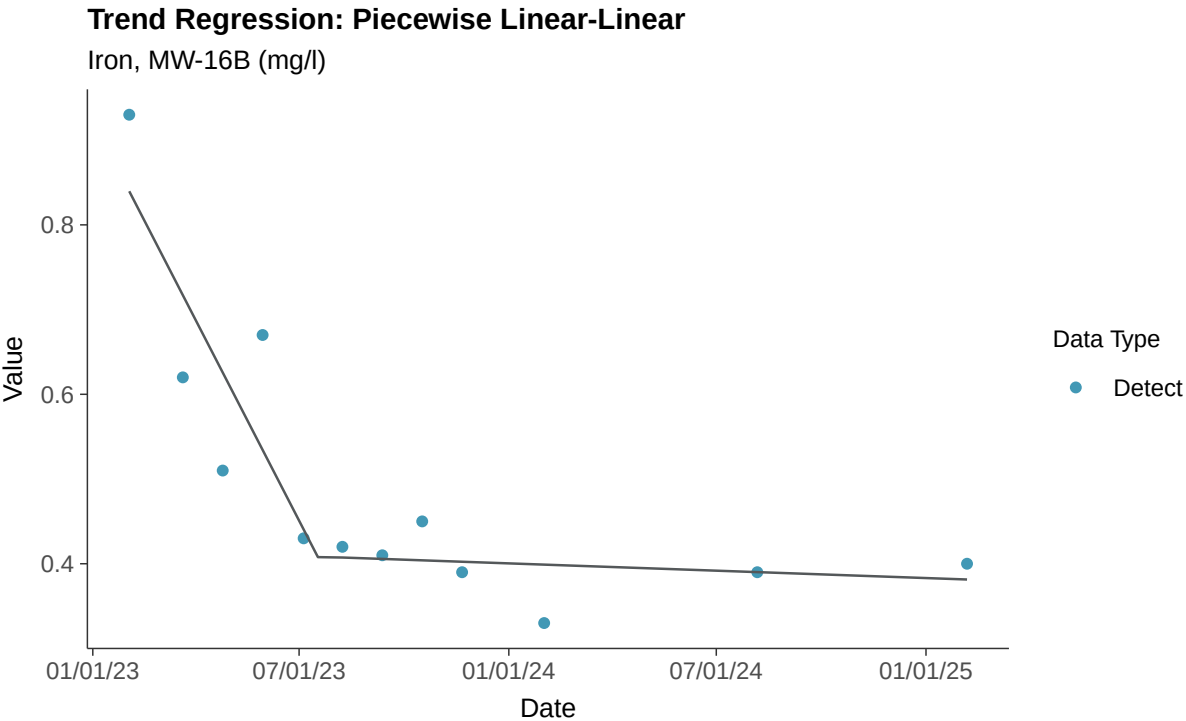
Part 115: Iron, MW-16B

ID: 24_5_114





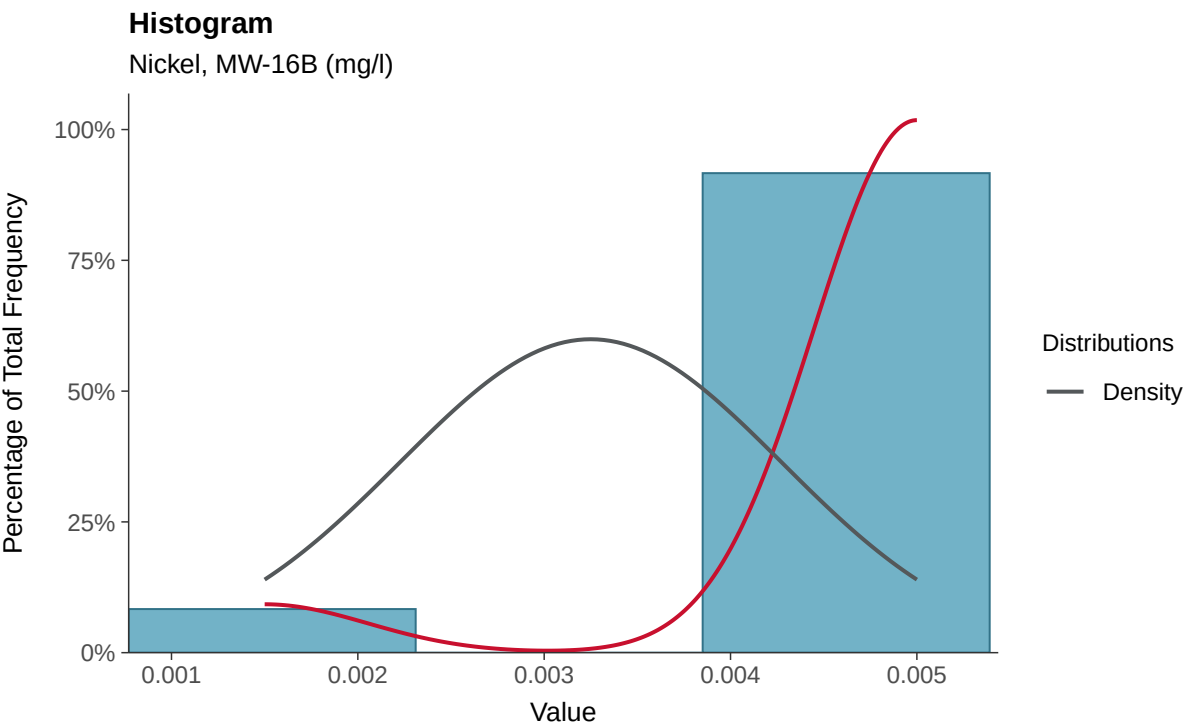
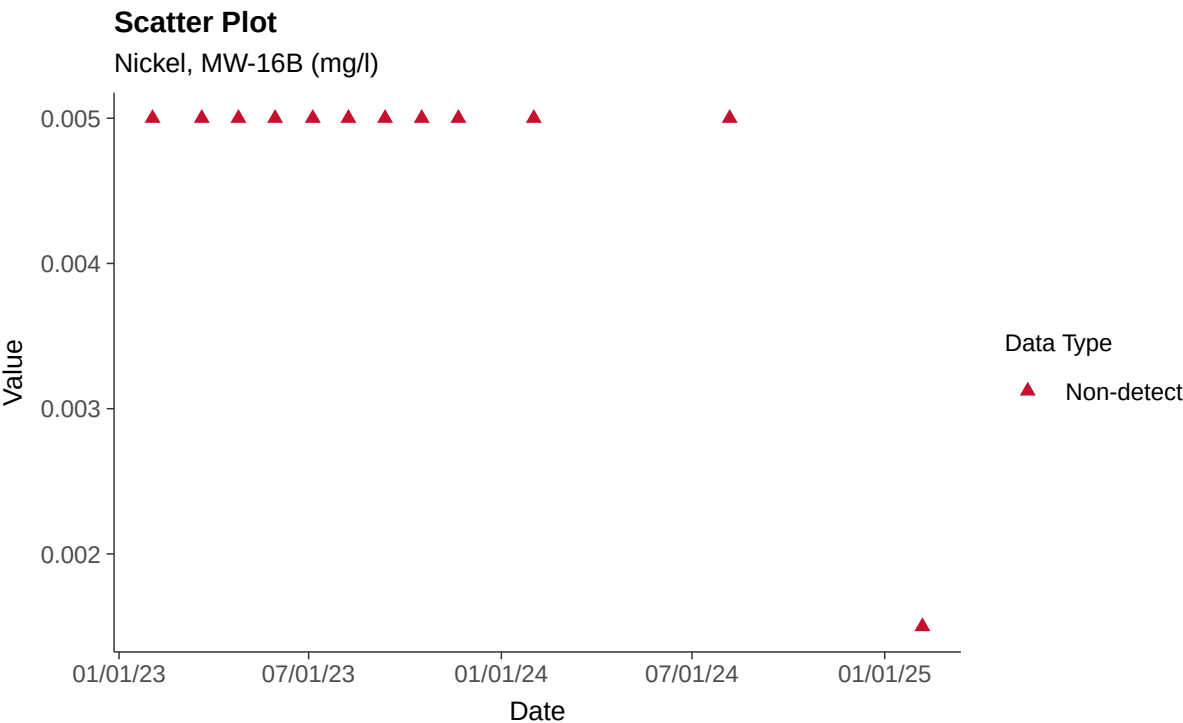


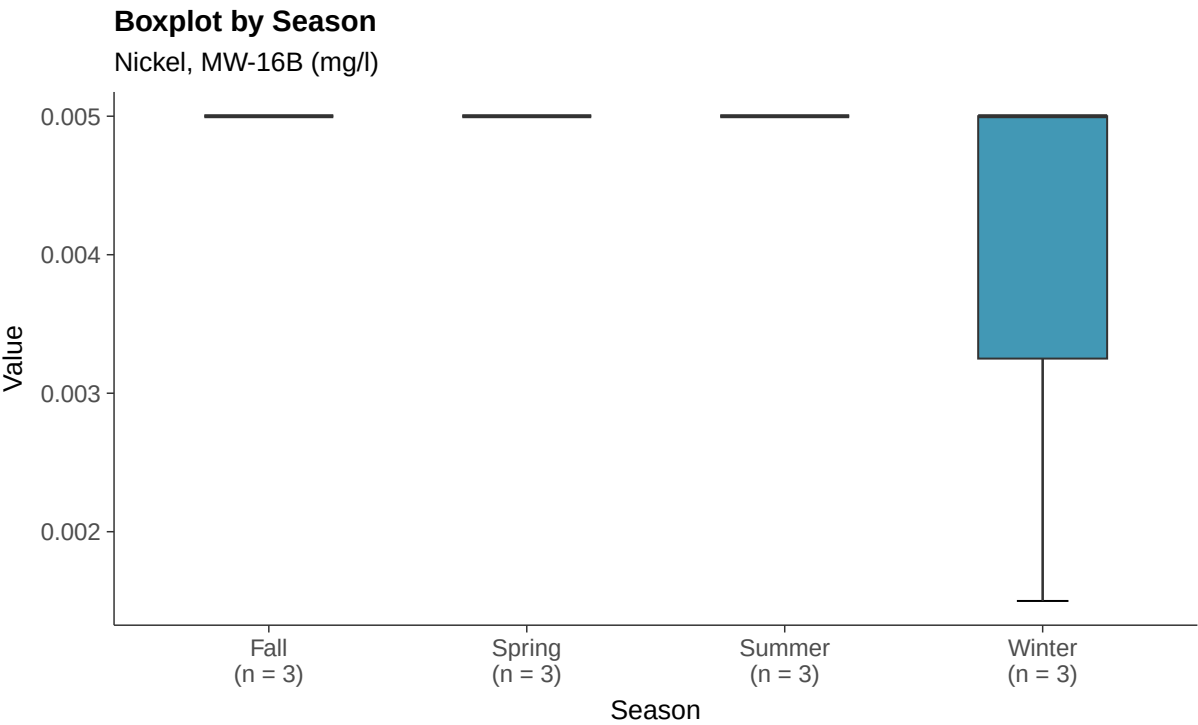
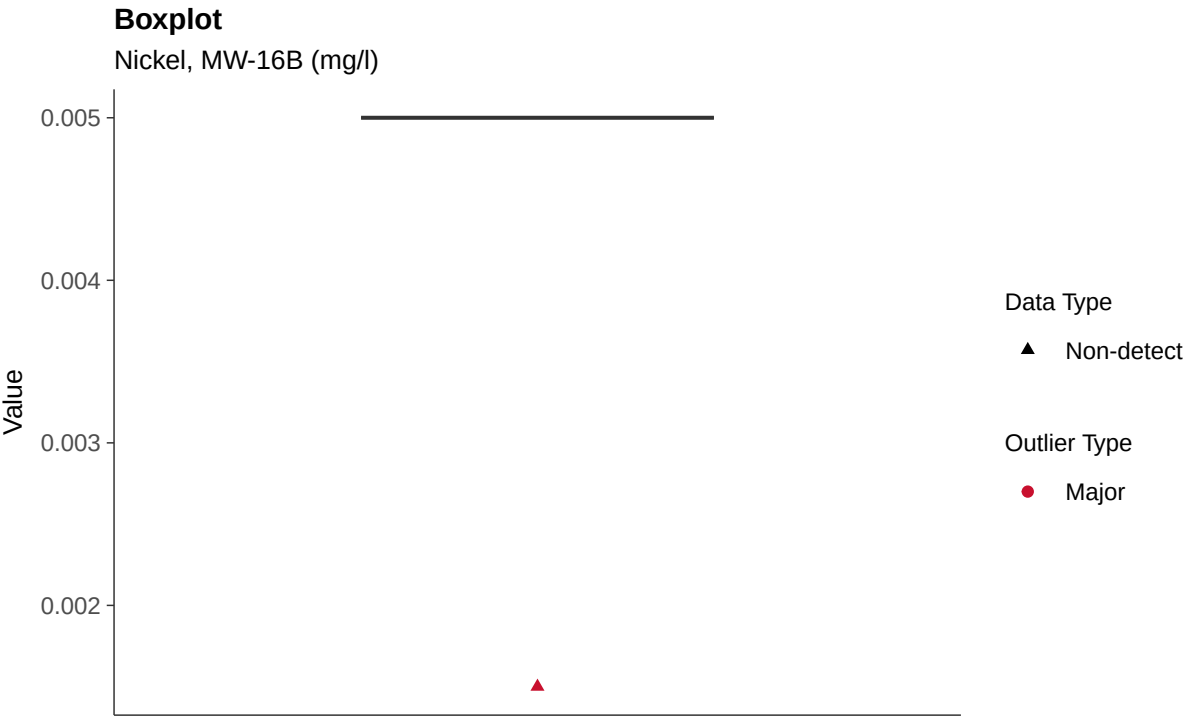




Part 115: Nickel, MW-16B

ID: 24_5_119

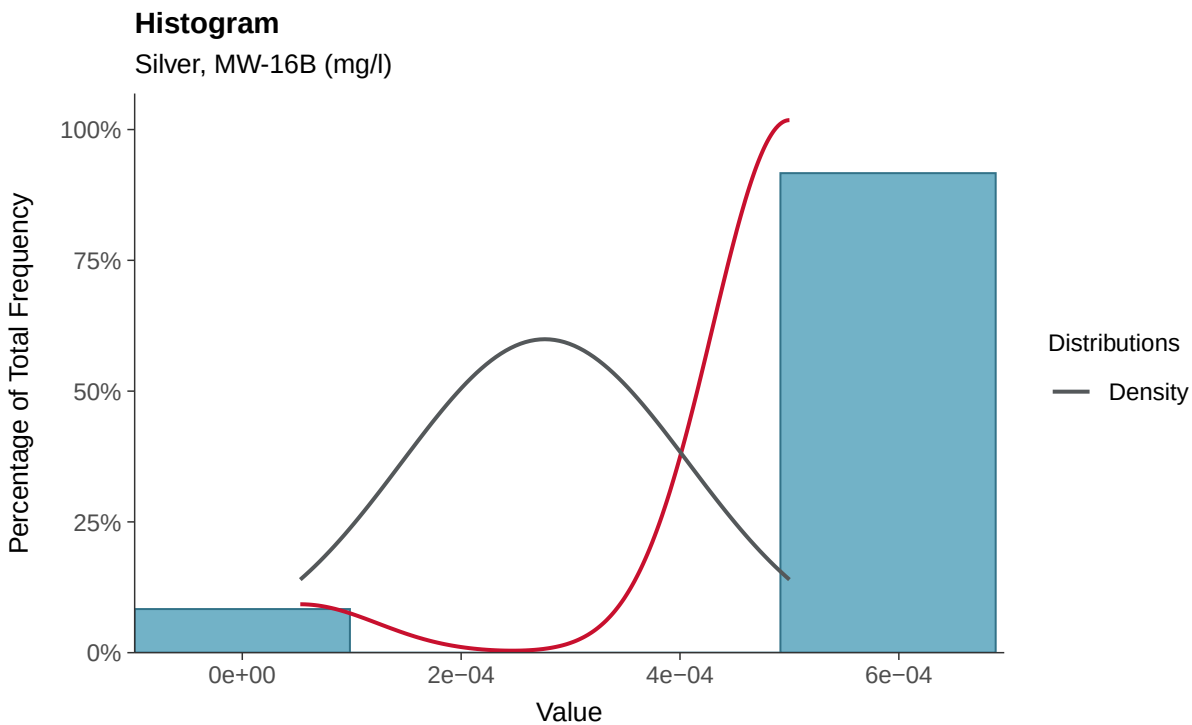
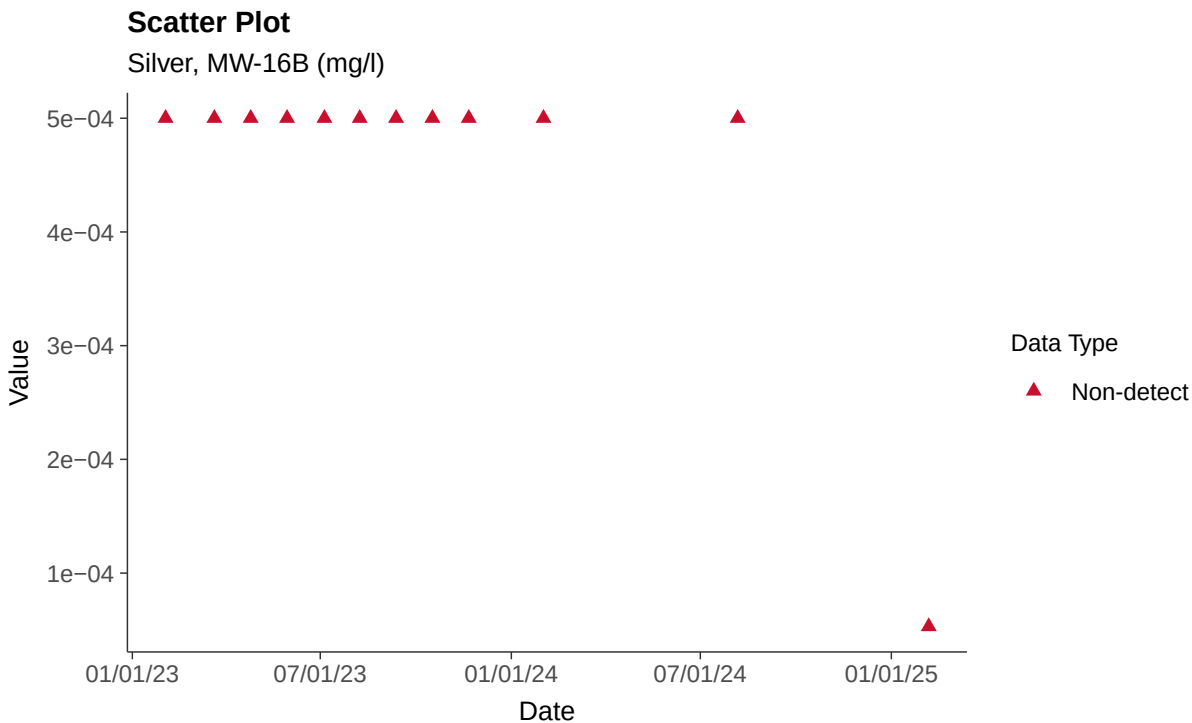


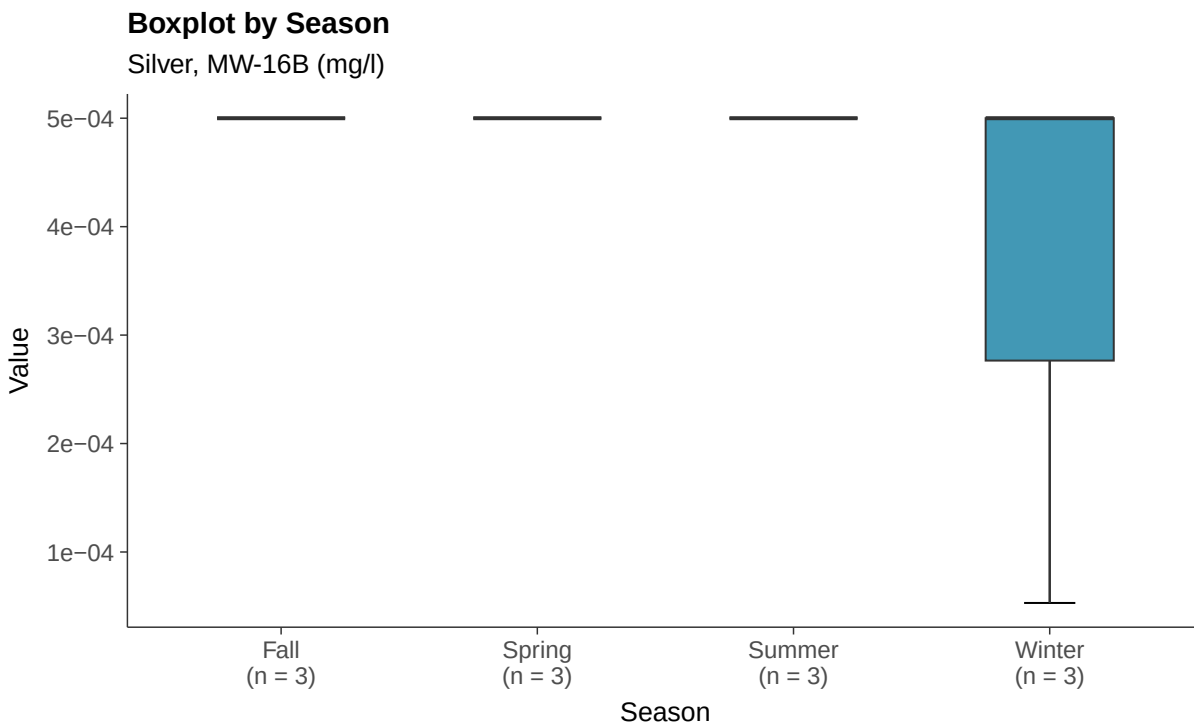
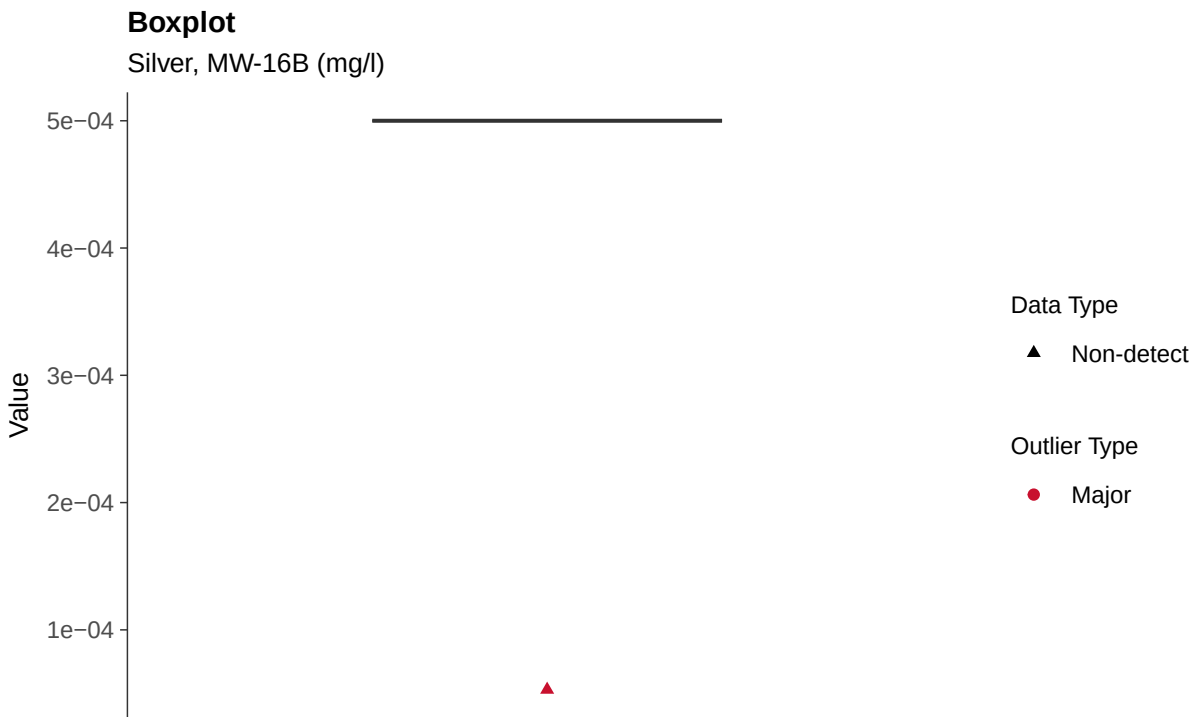




Part 115: Silver, MW-16B

ID: 24_5_123

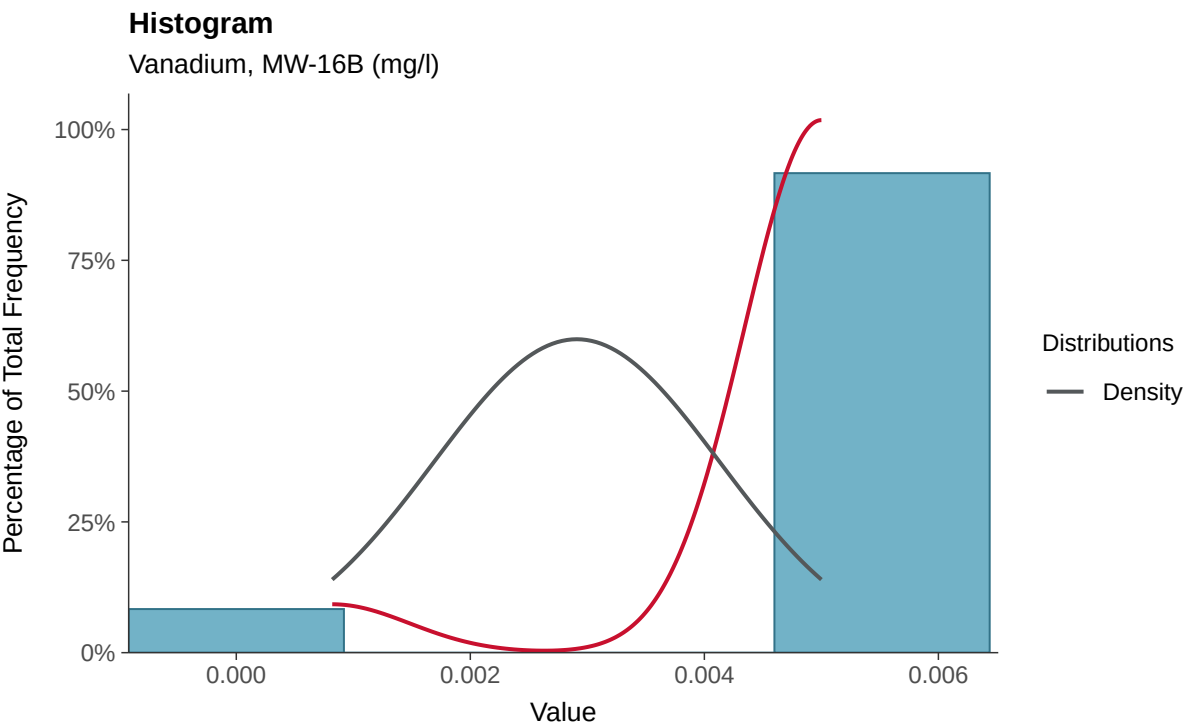
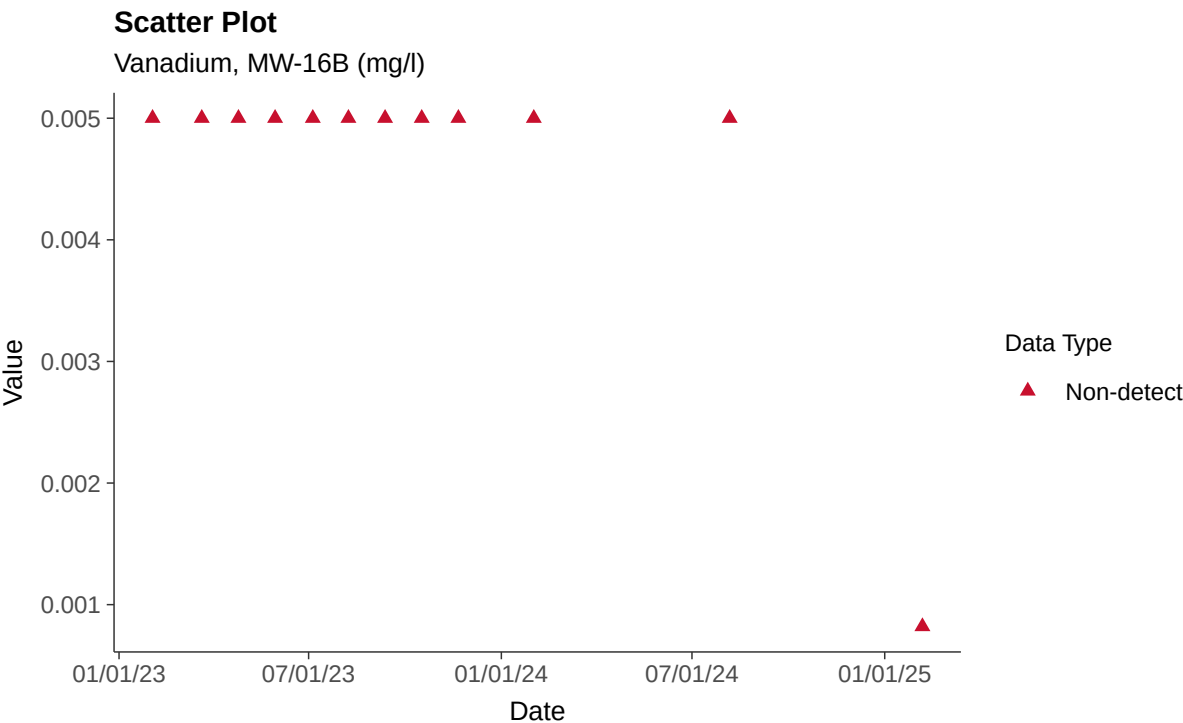


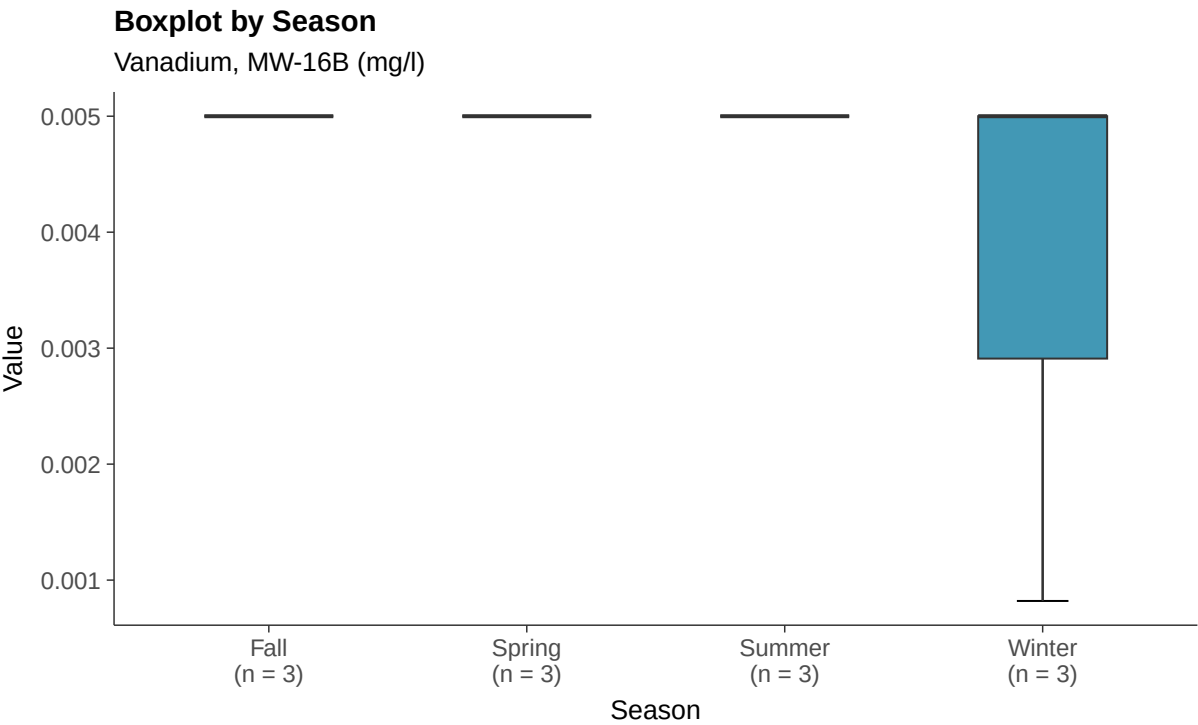
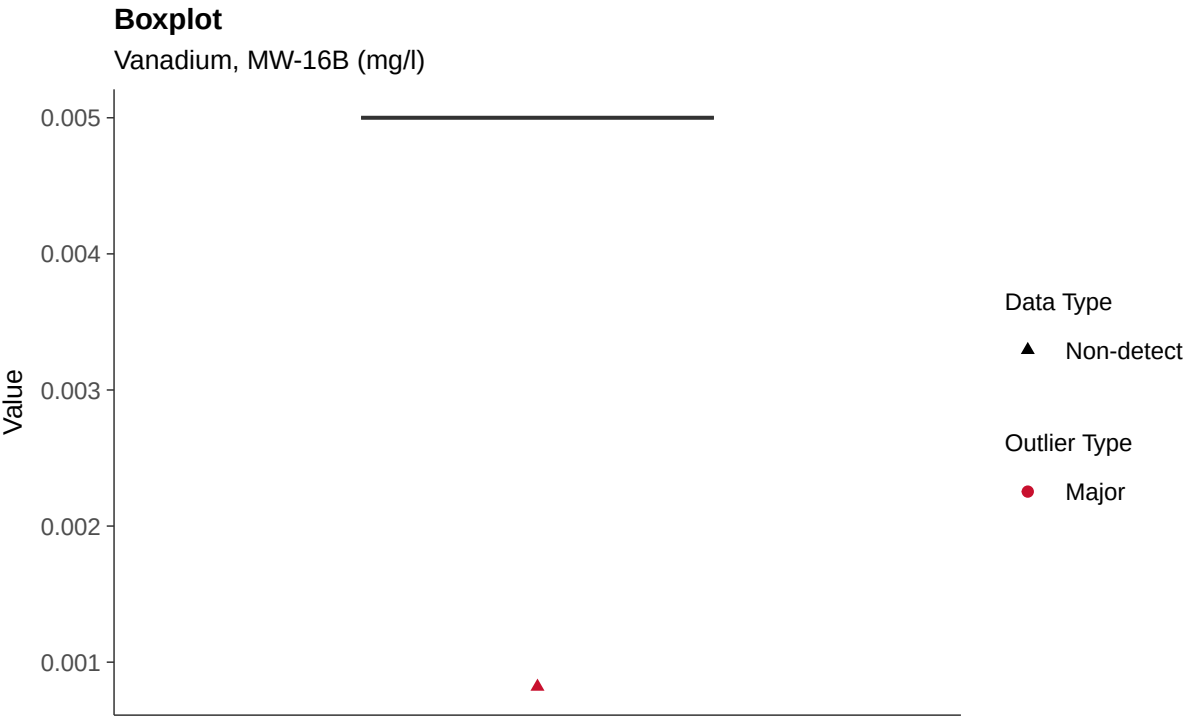




Part 115: Vanadium, MW-16B

ID: 24_5_128

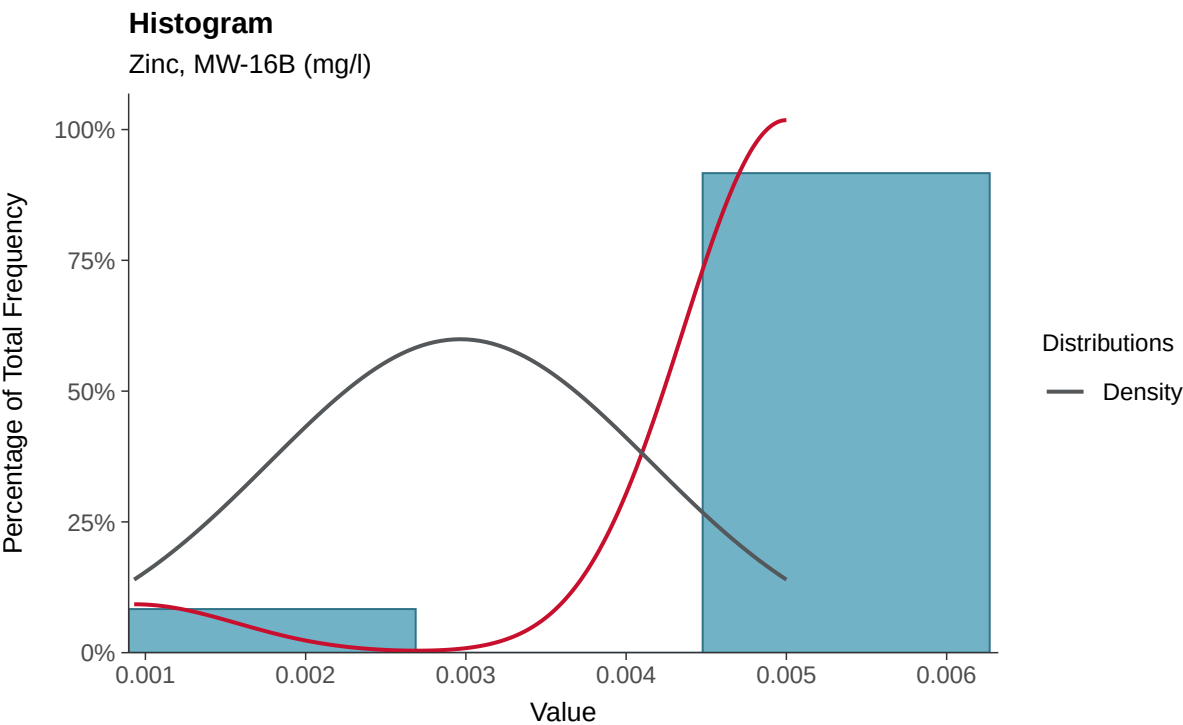
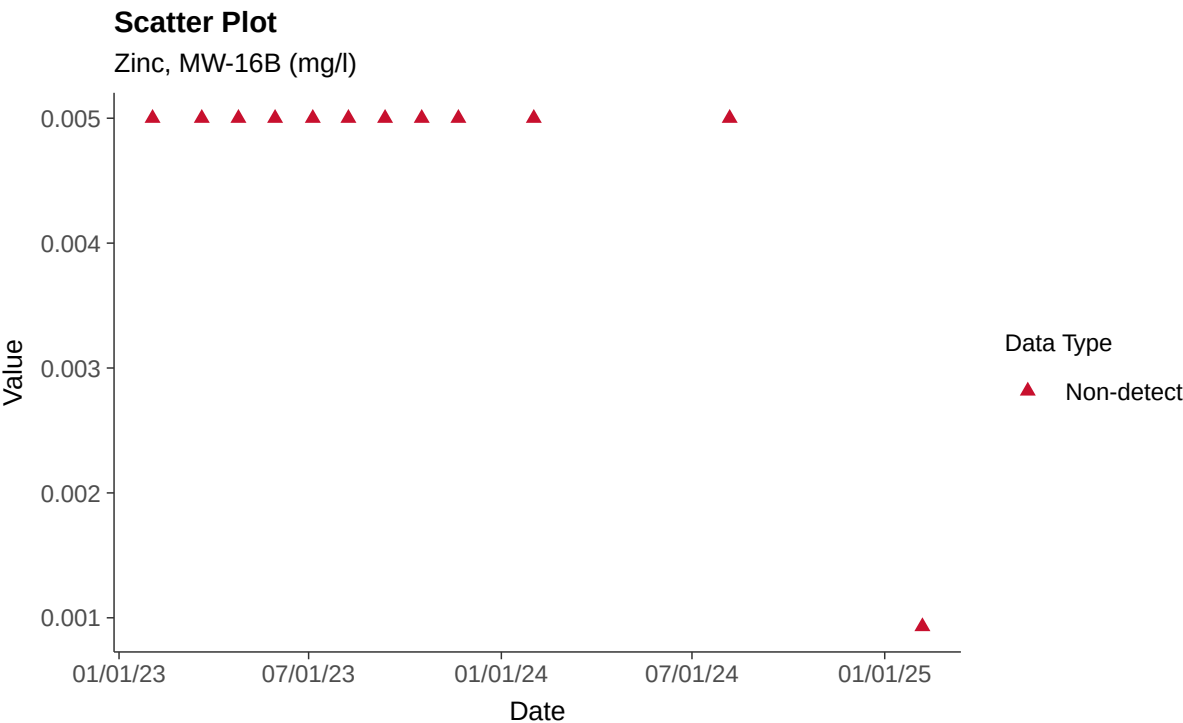


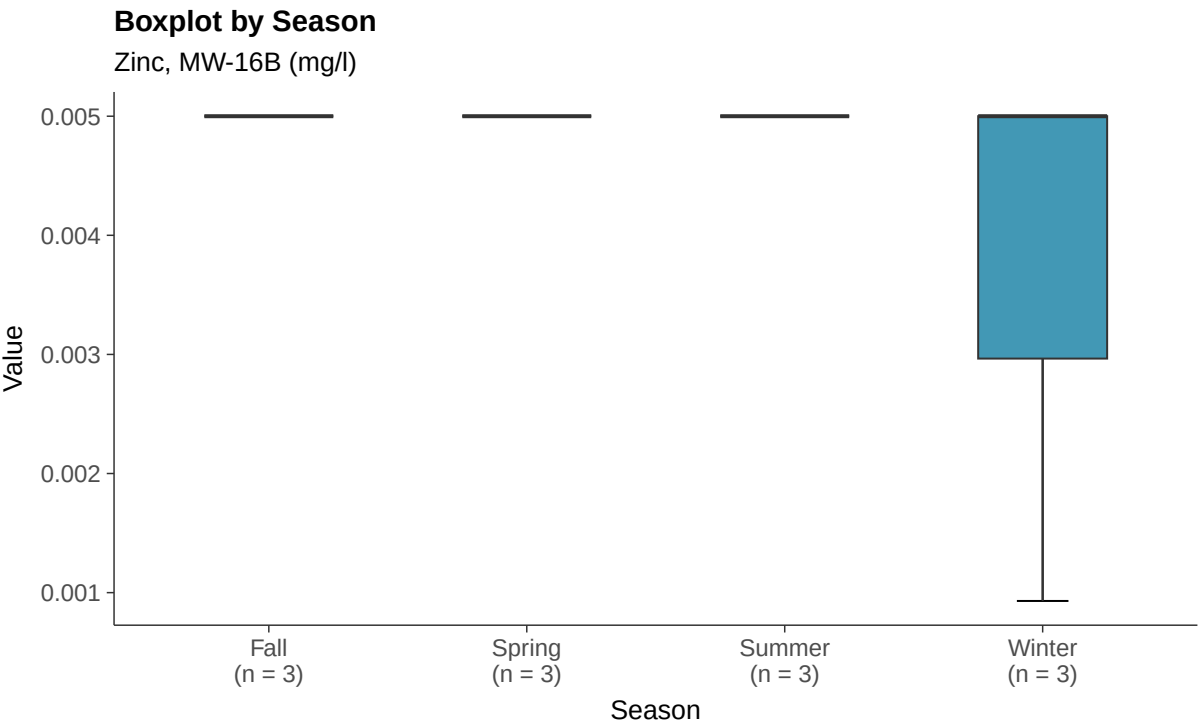
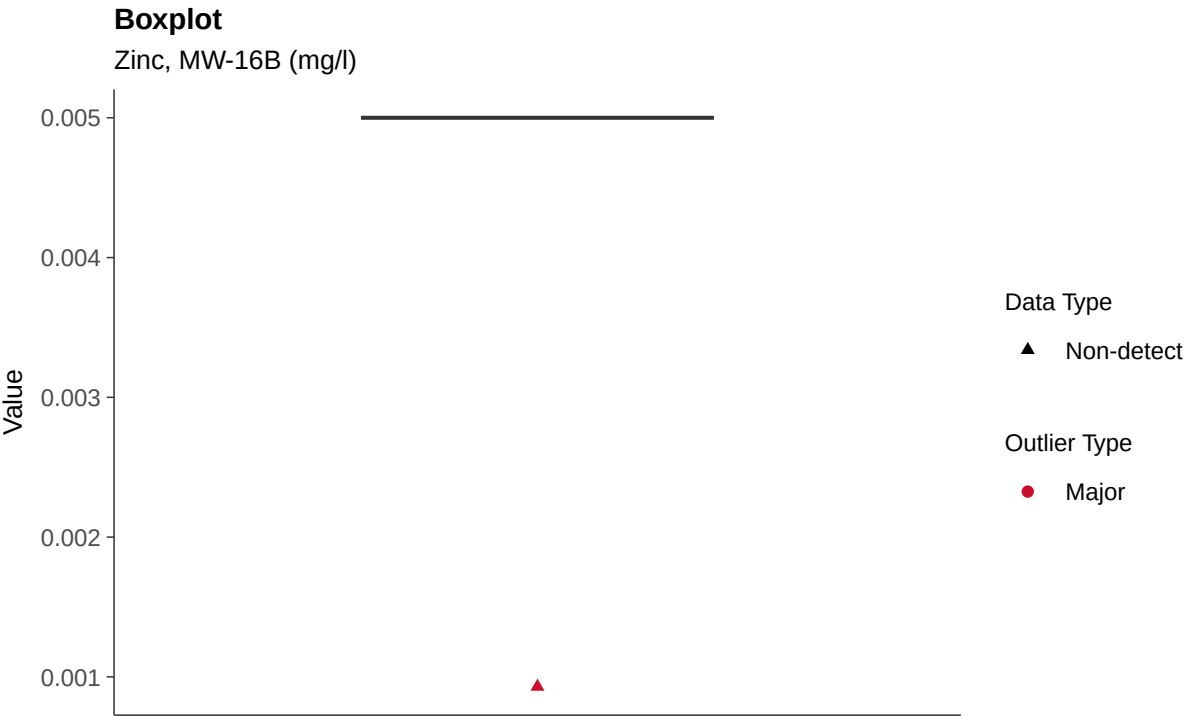




Part 115: Zinc, MW-16B

ID: 24_5_129

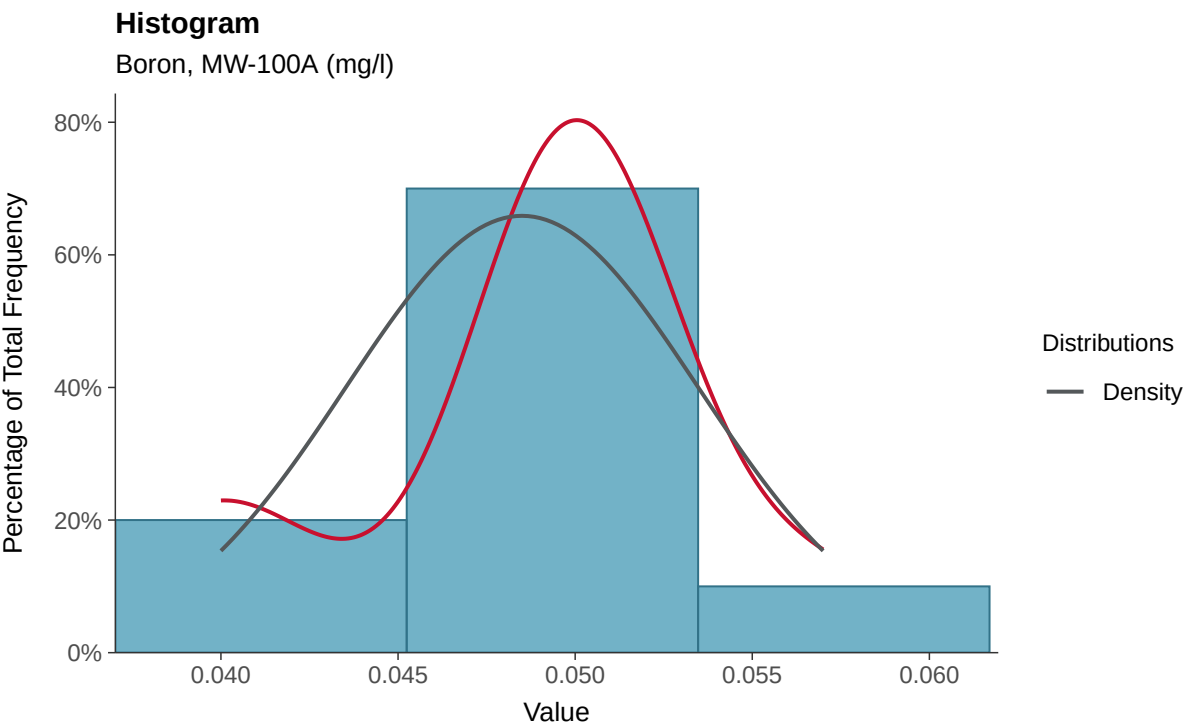
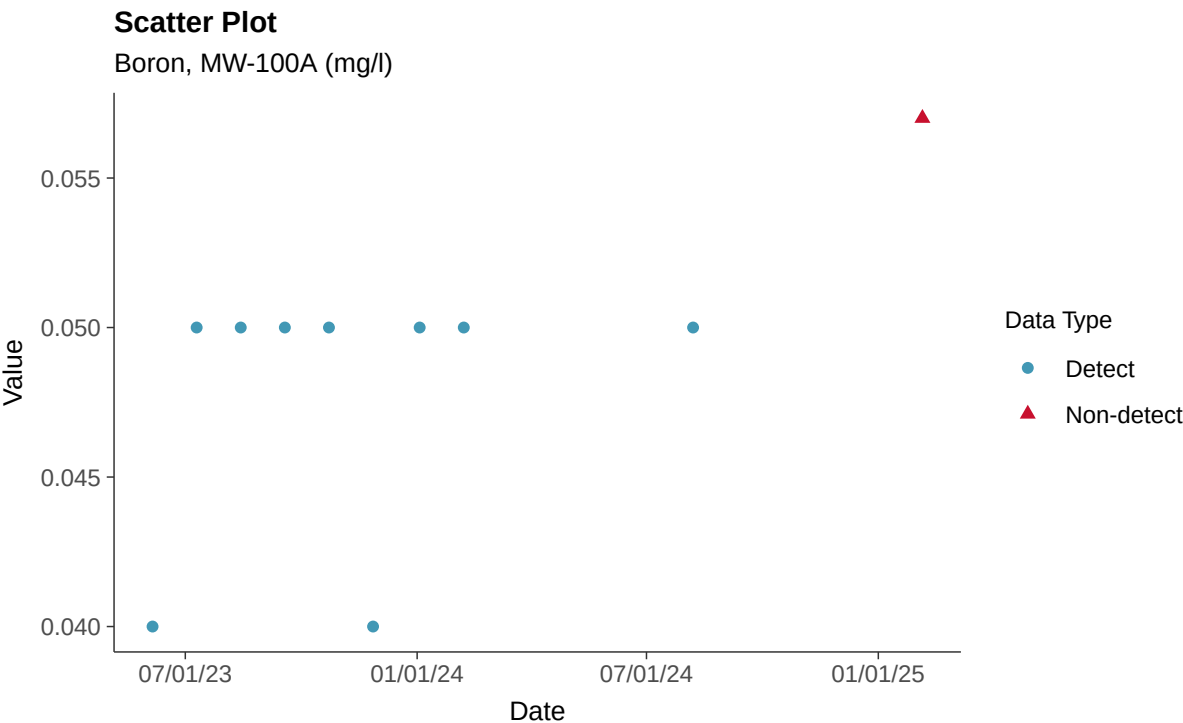


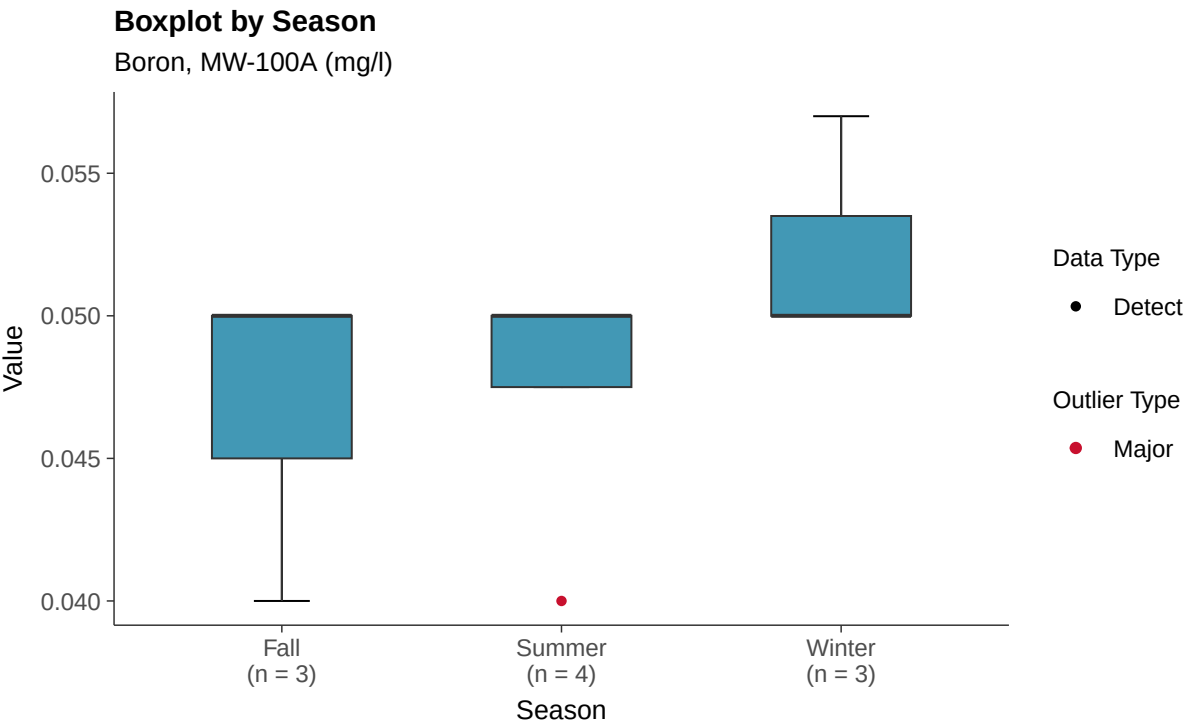
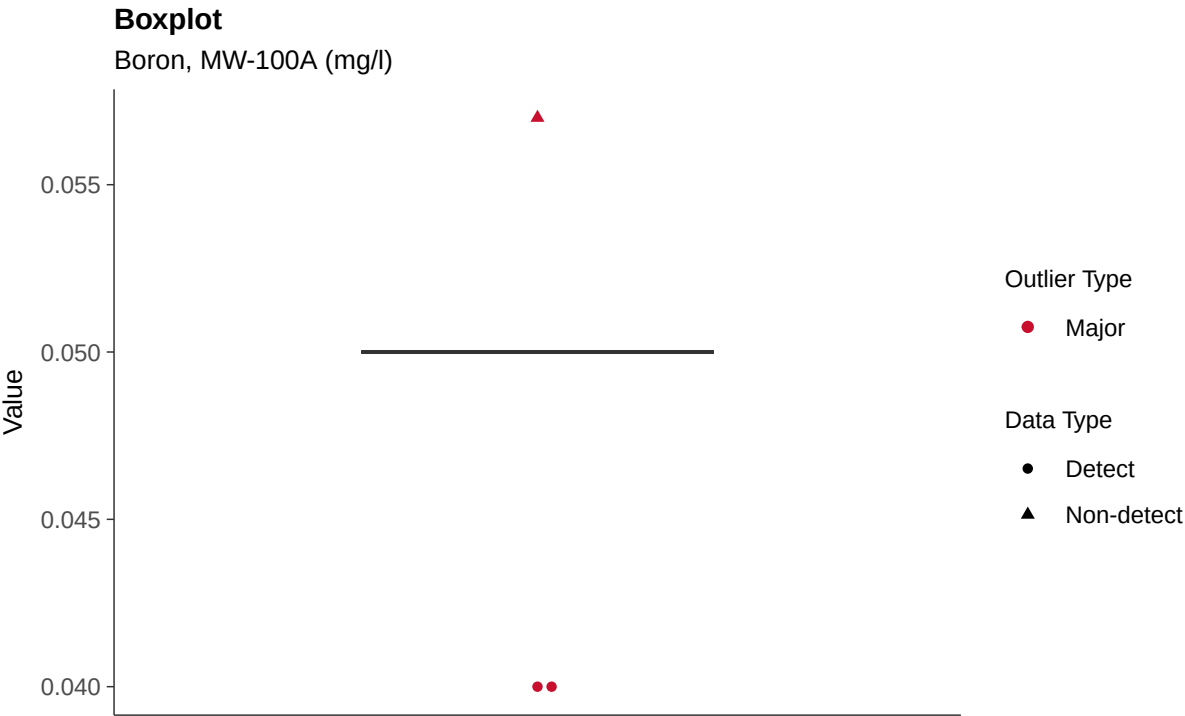


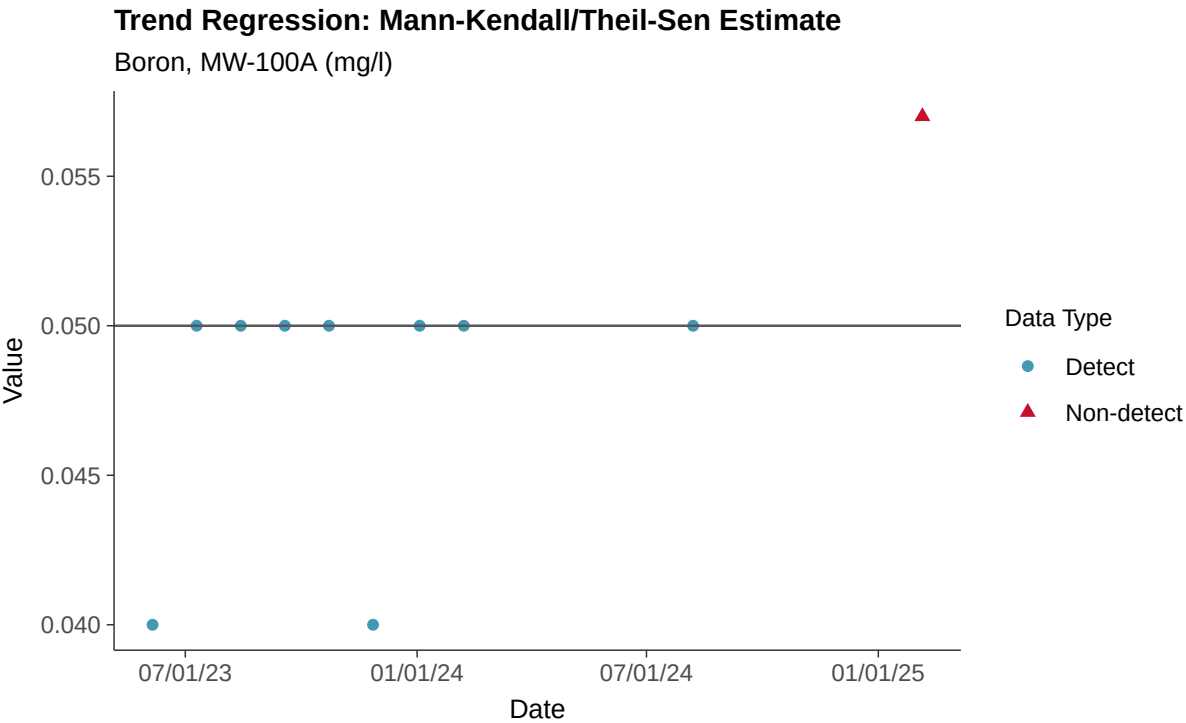
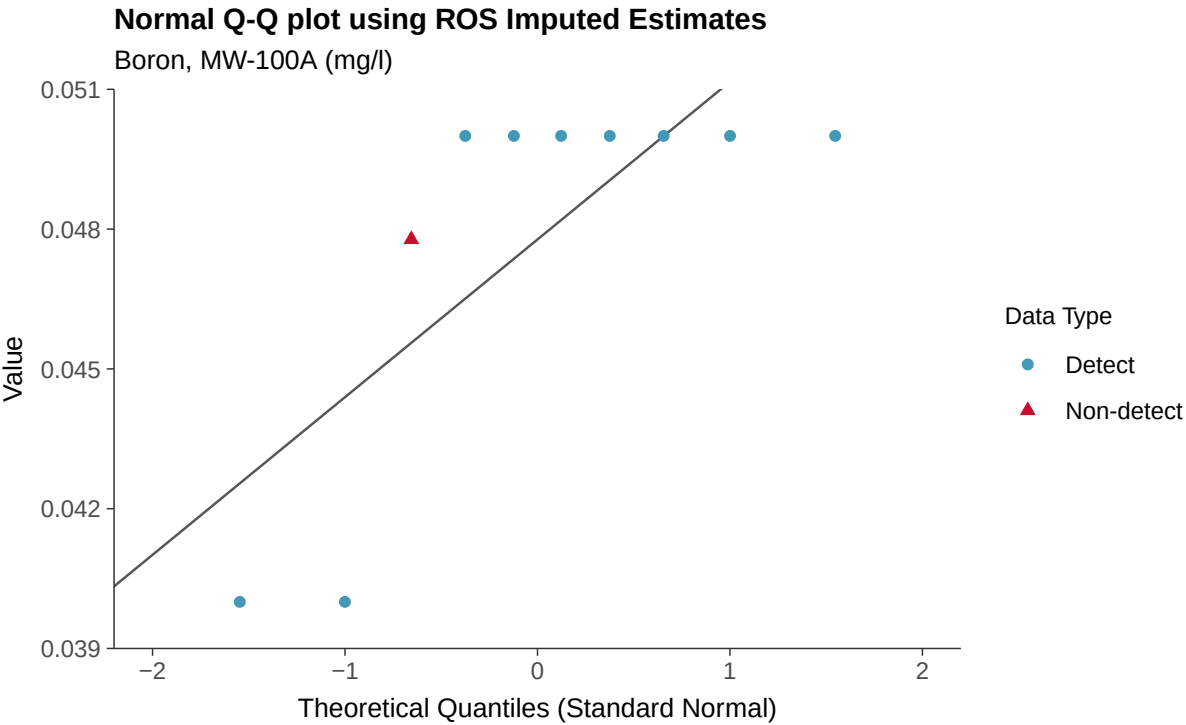


Appendix III: Boron, MW-100A

ID: 30_2_105



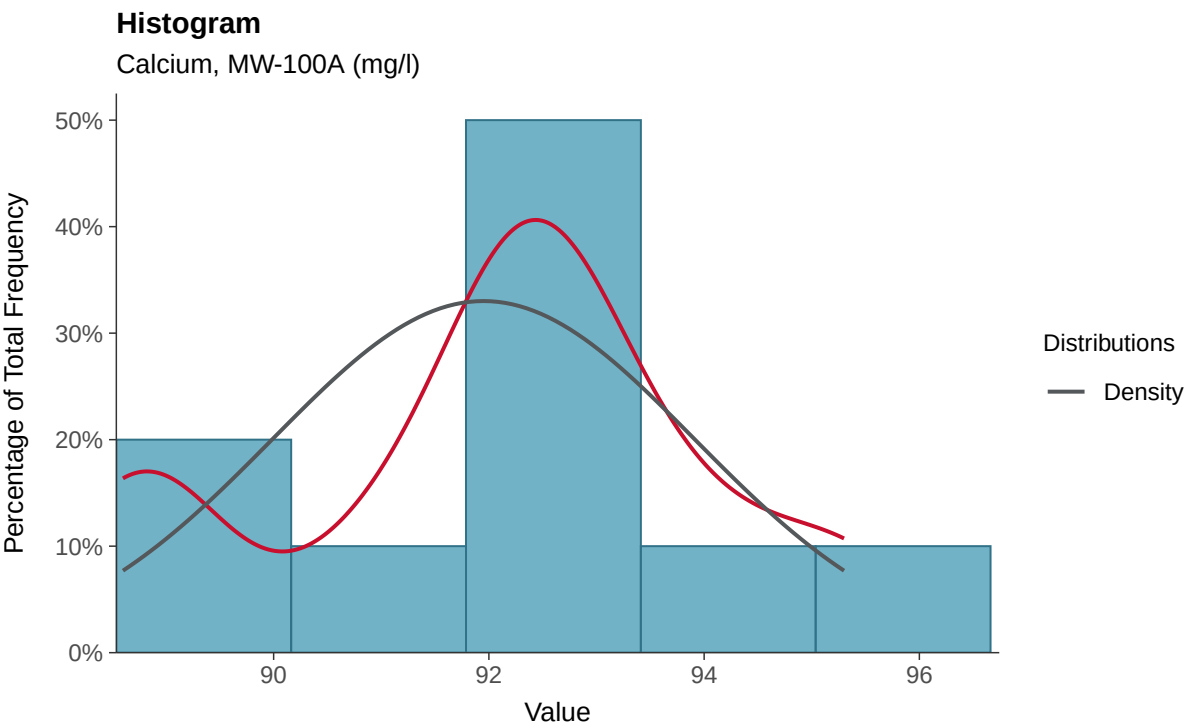
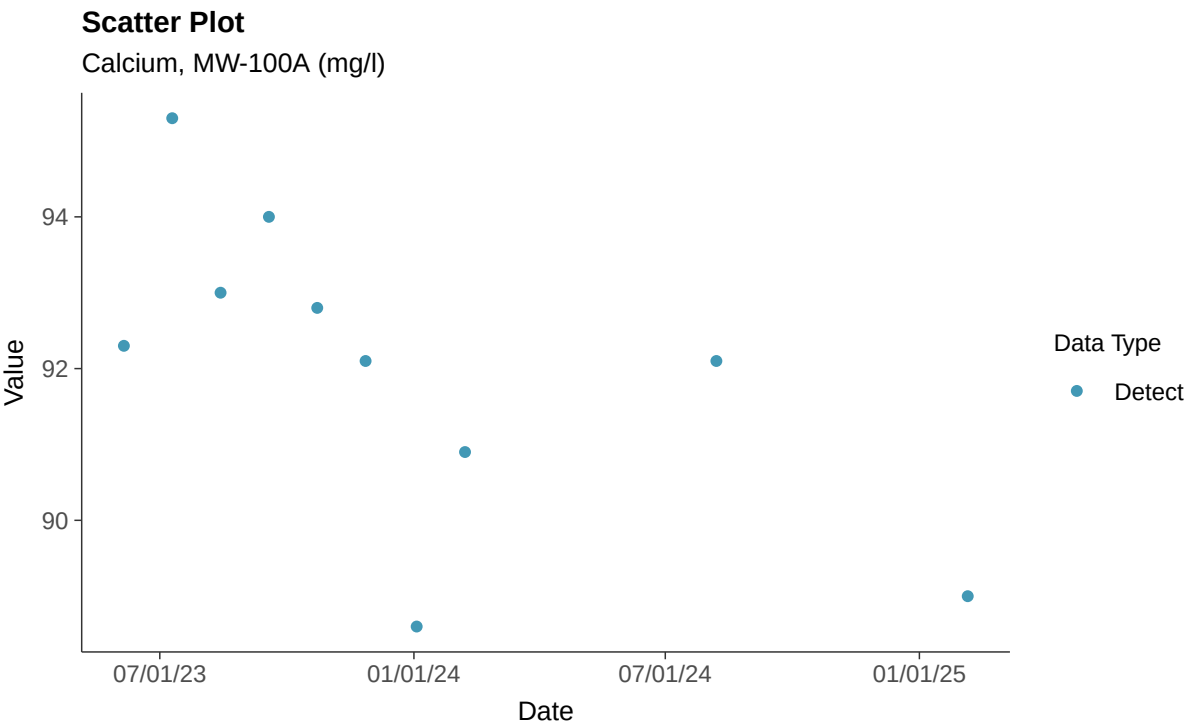


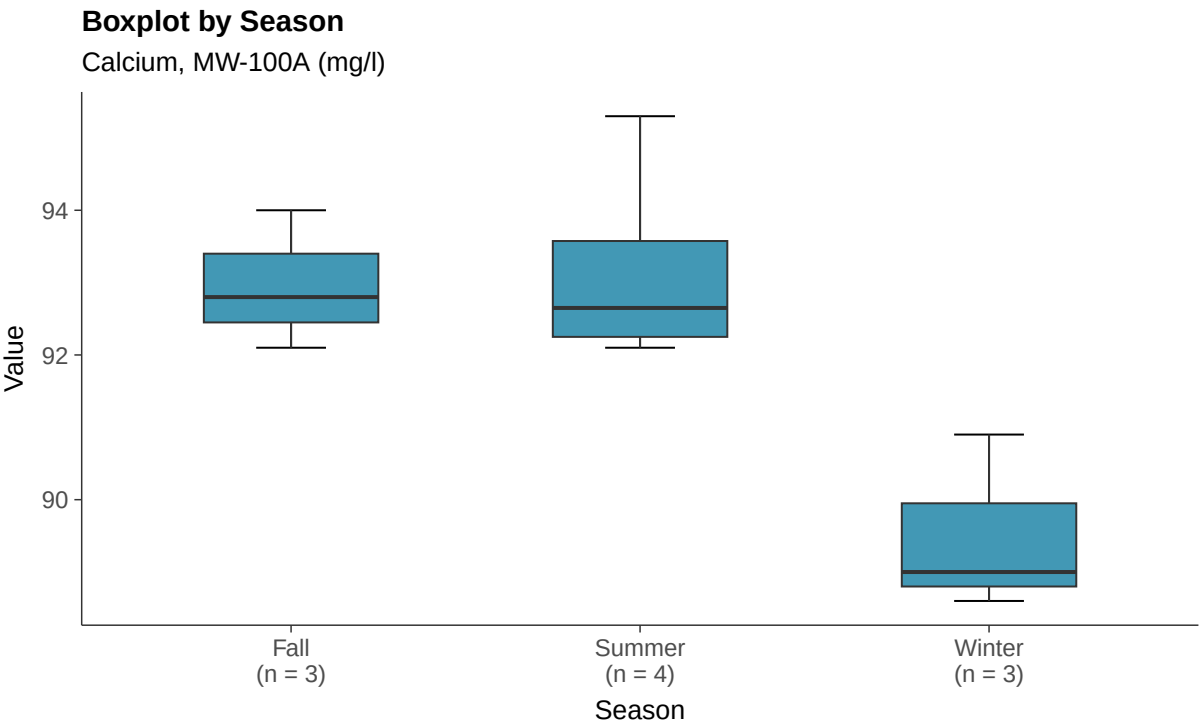
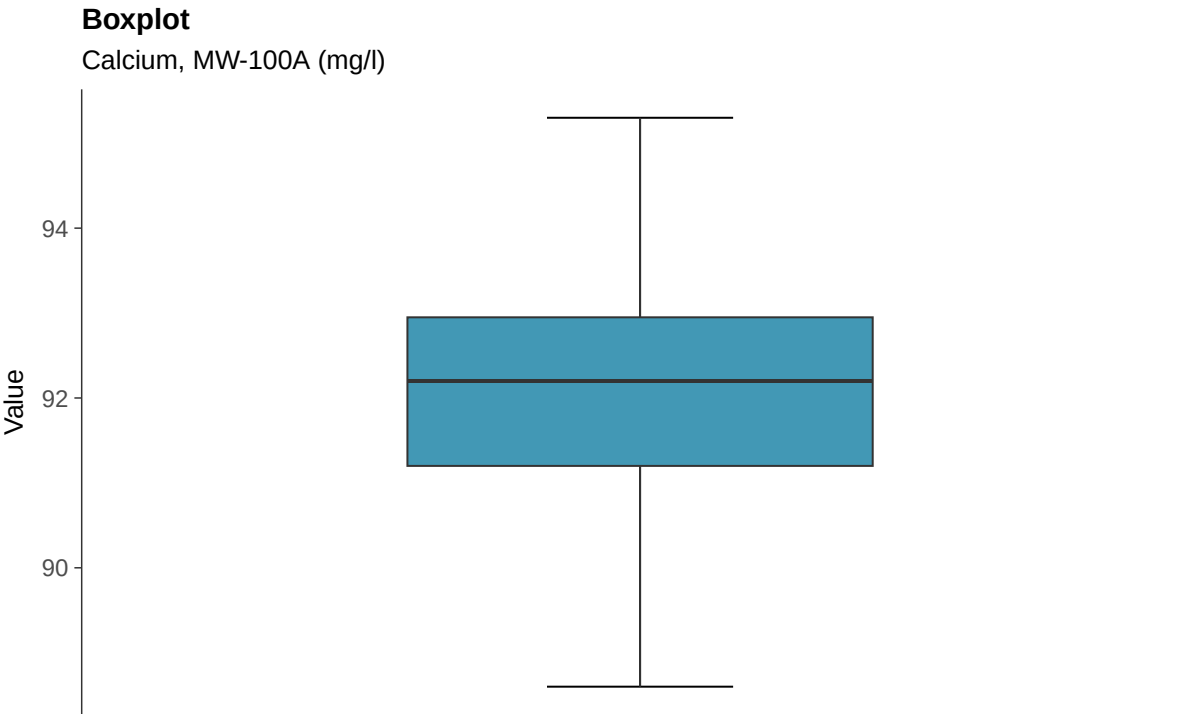


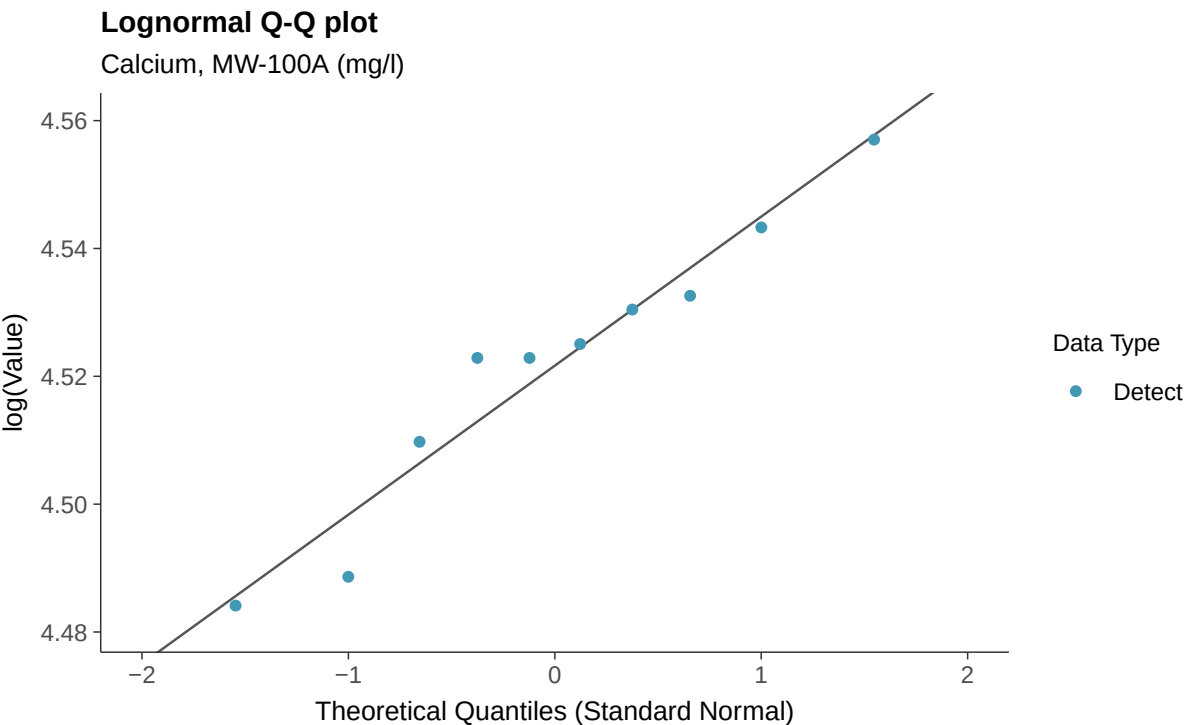
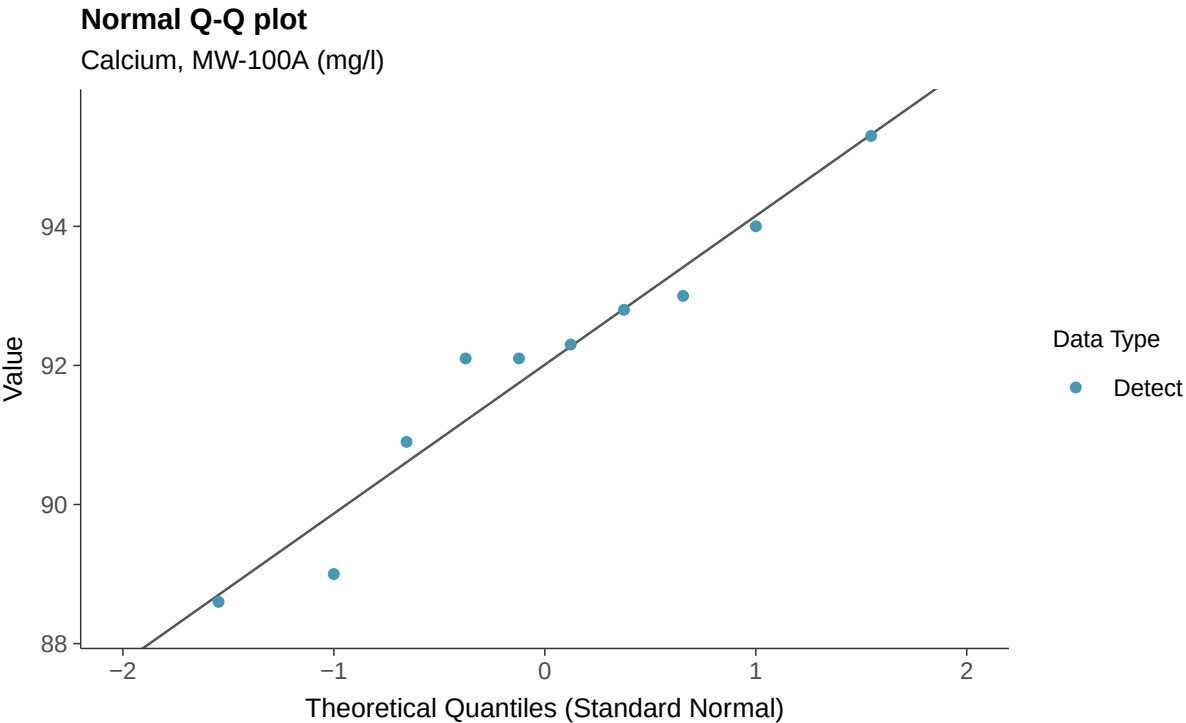


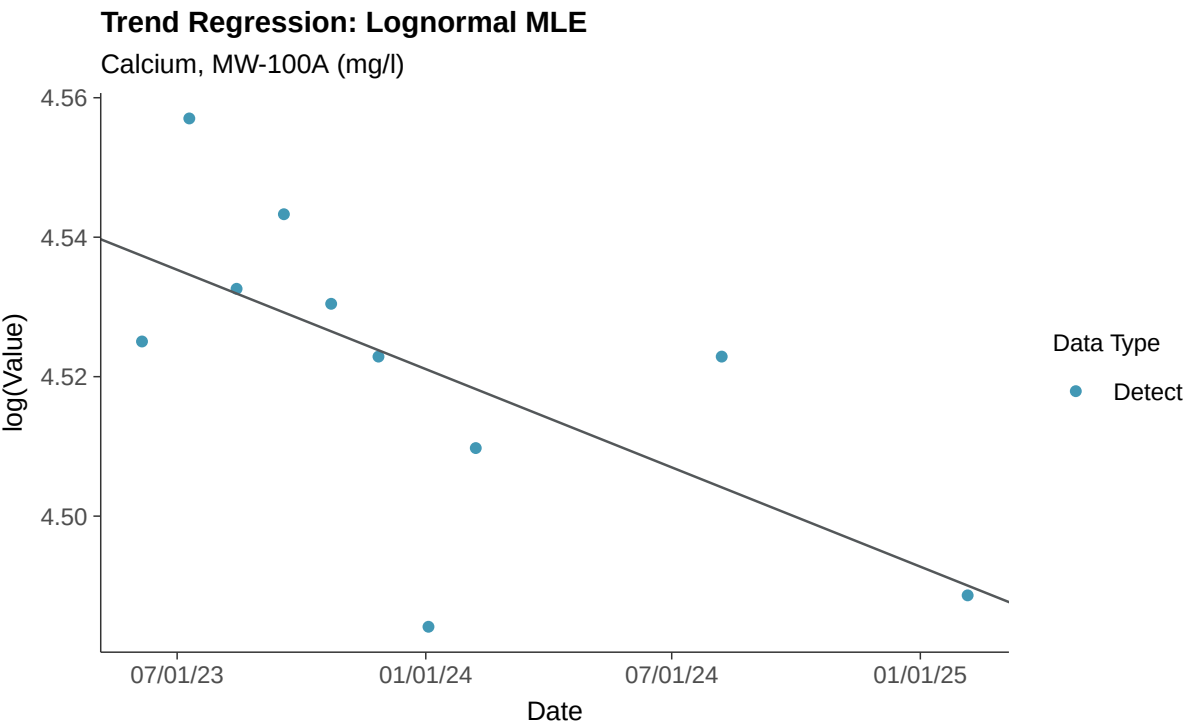
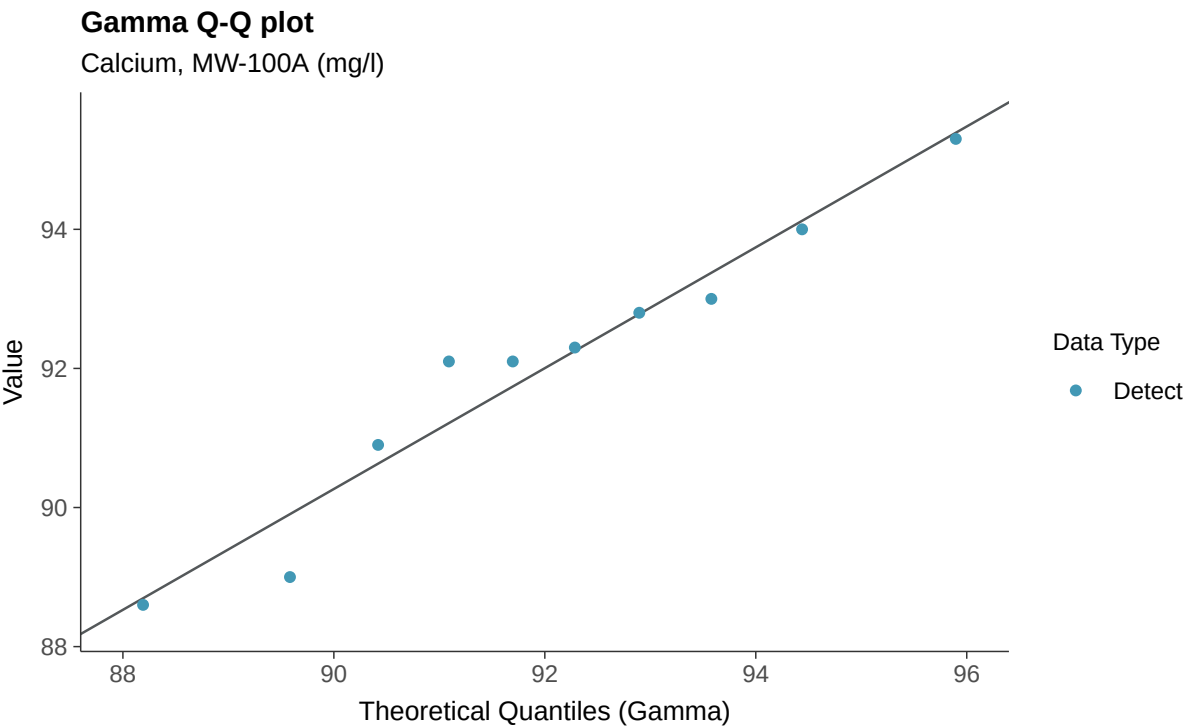
Appendix III: Calcium, MW-100A

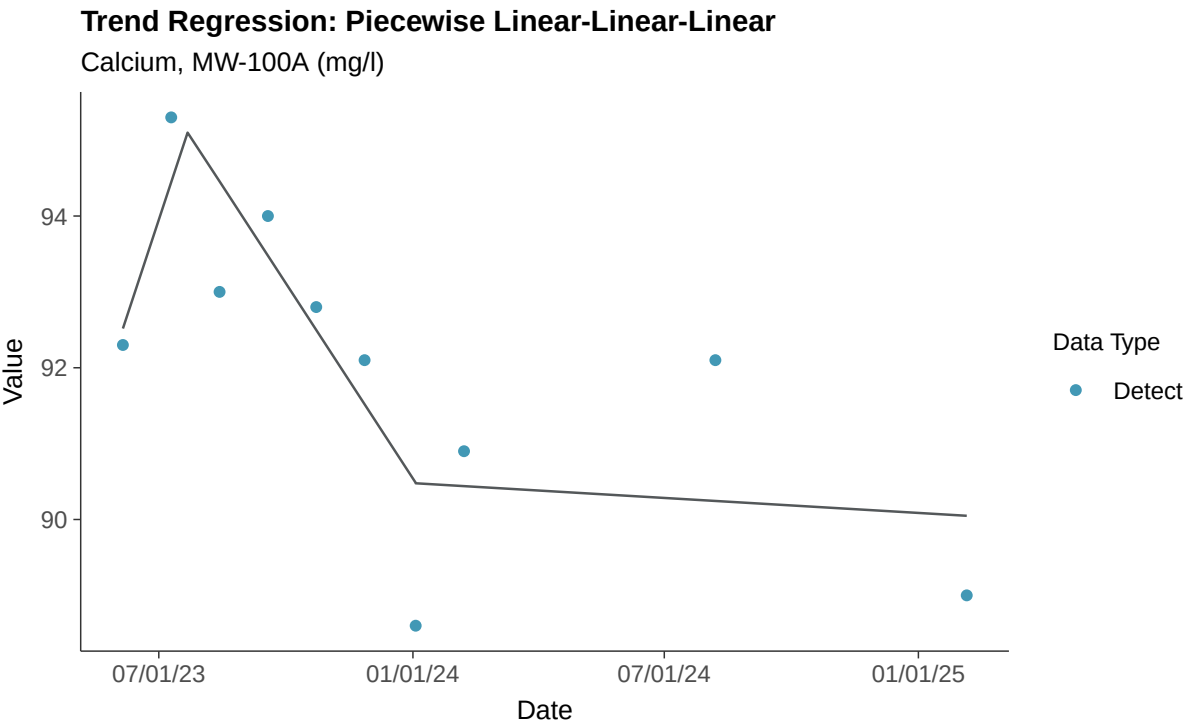
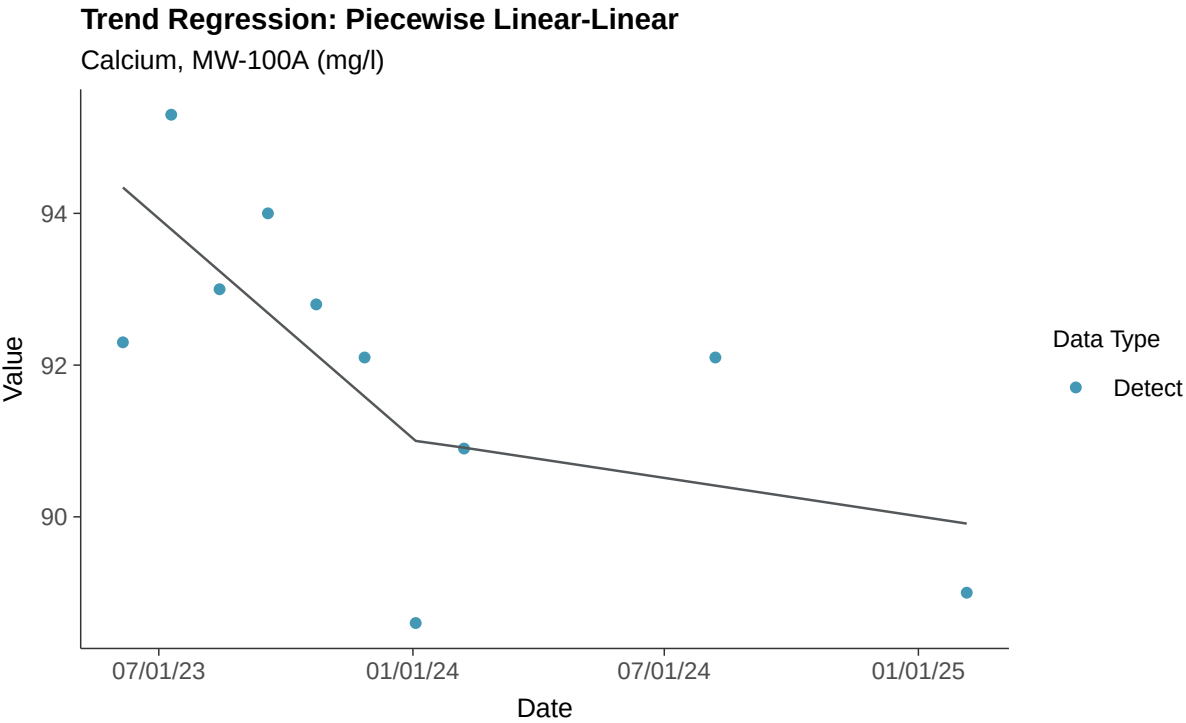
ID: 30_2_107







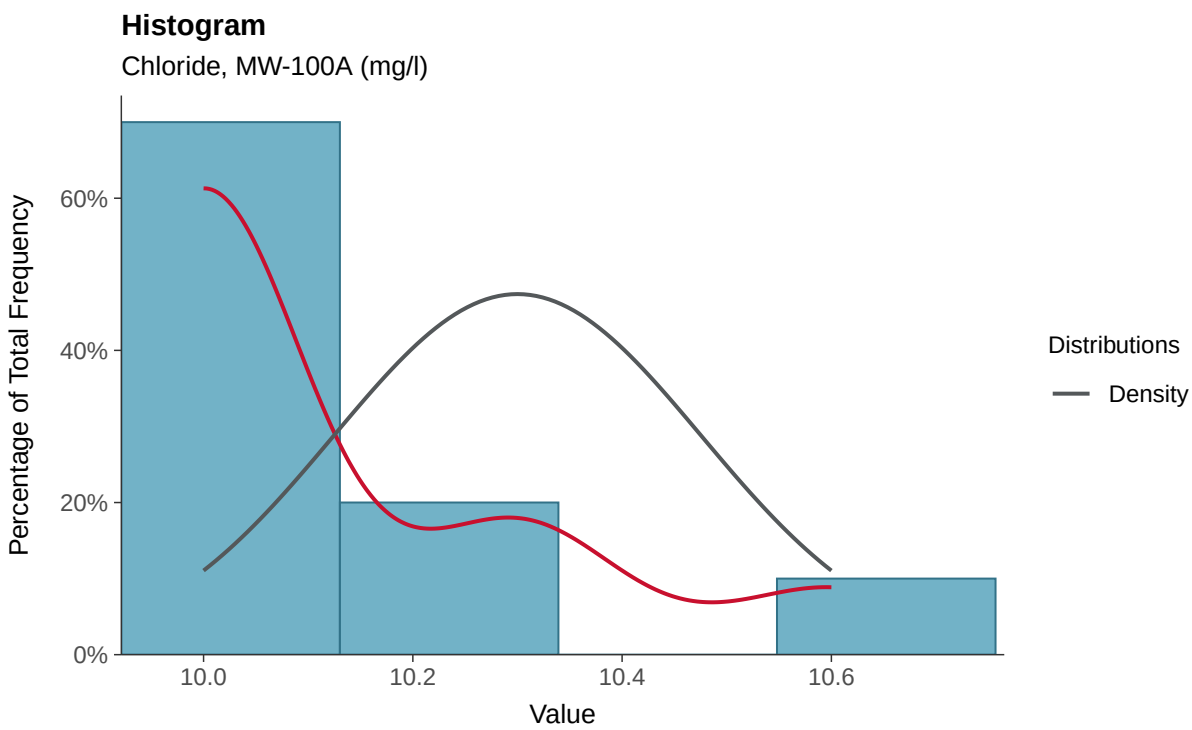
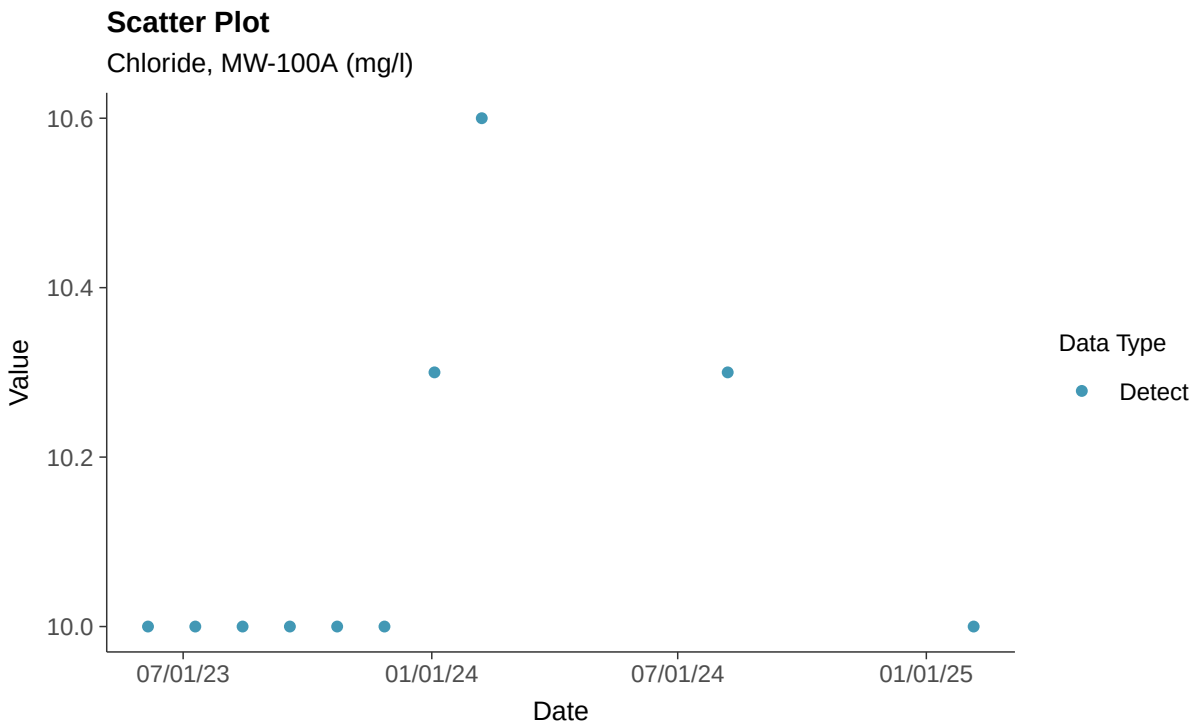


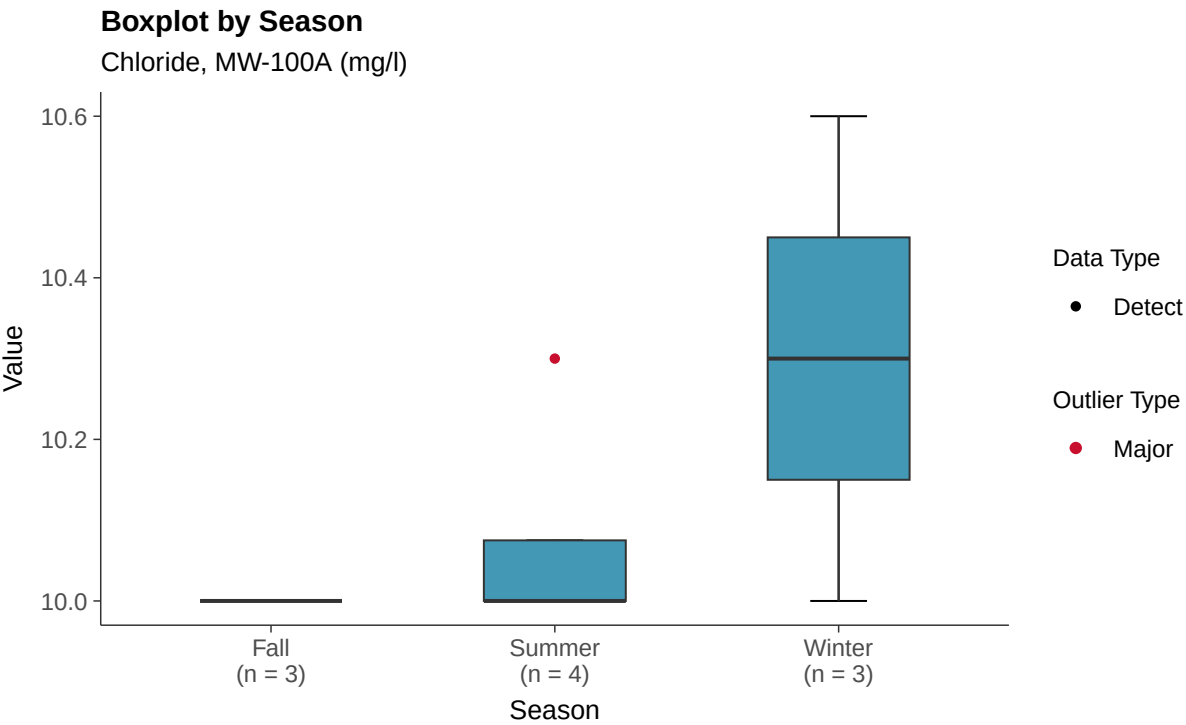
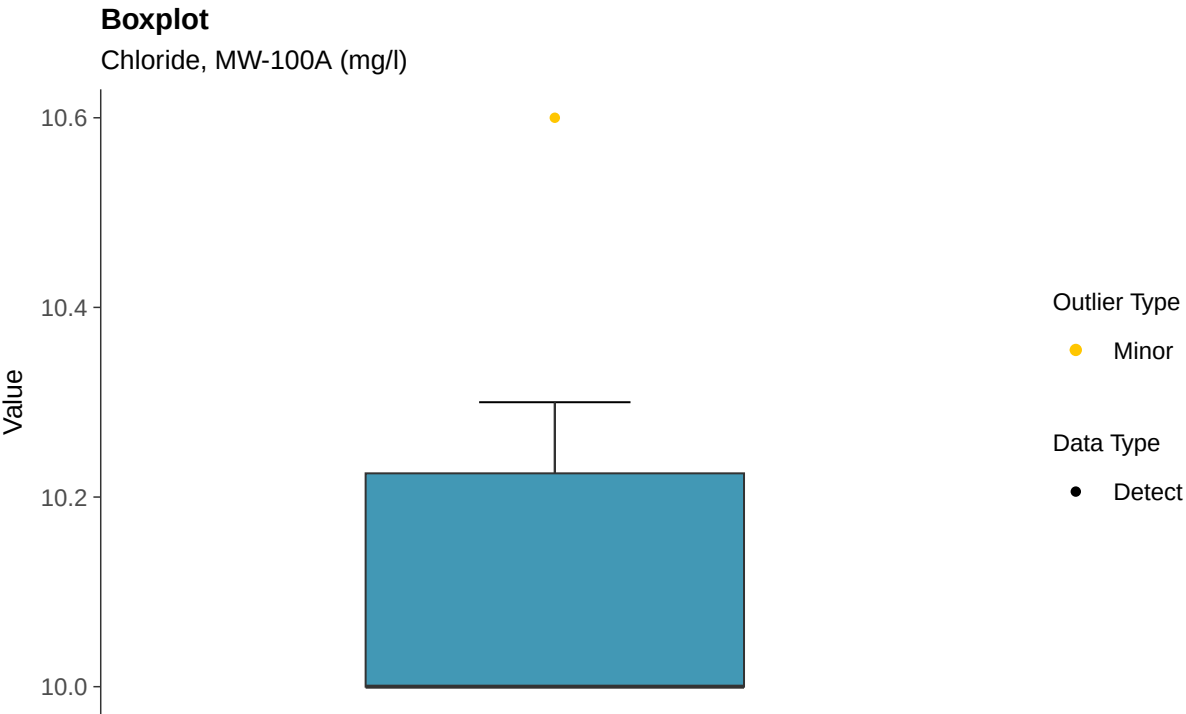


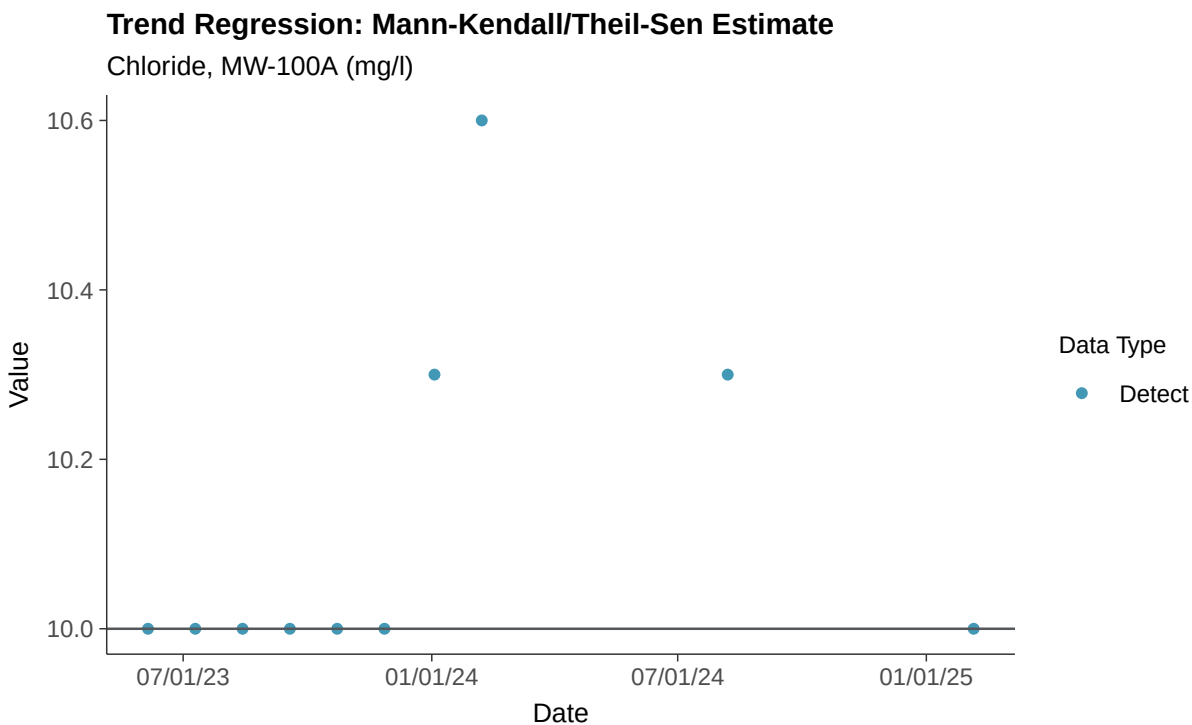
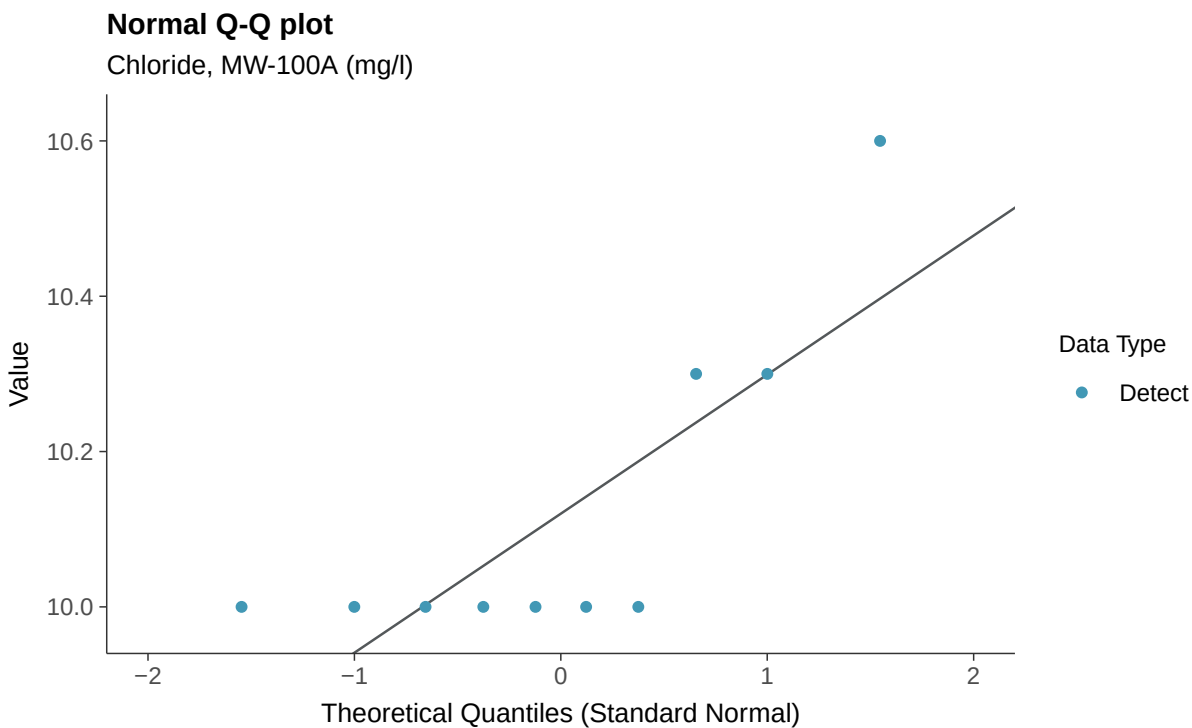


Appendix III: Chloride, MW-100A

ID: 30_2_108



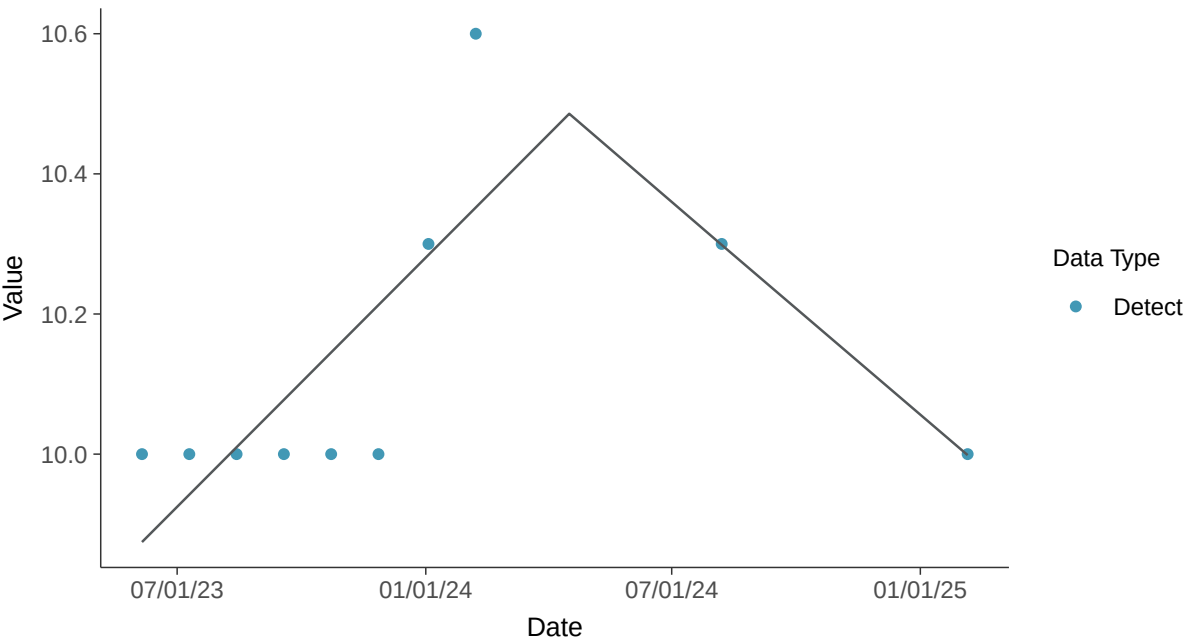






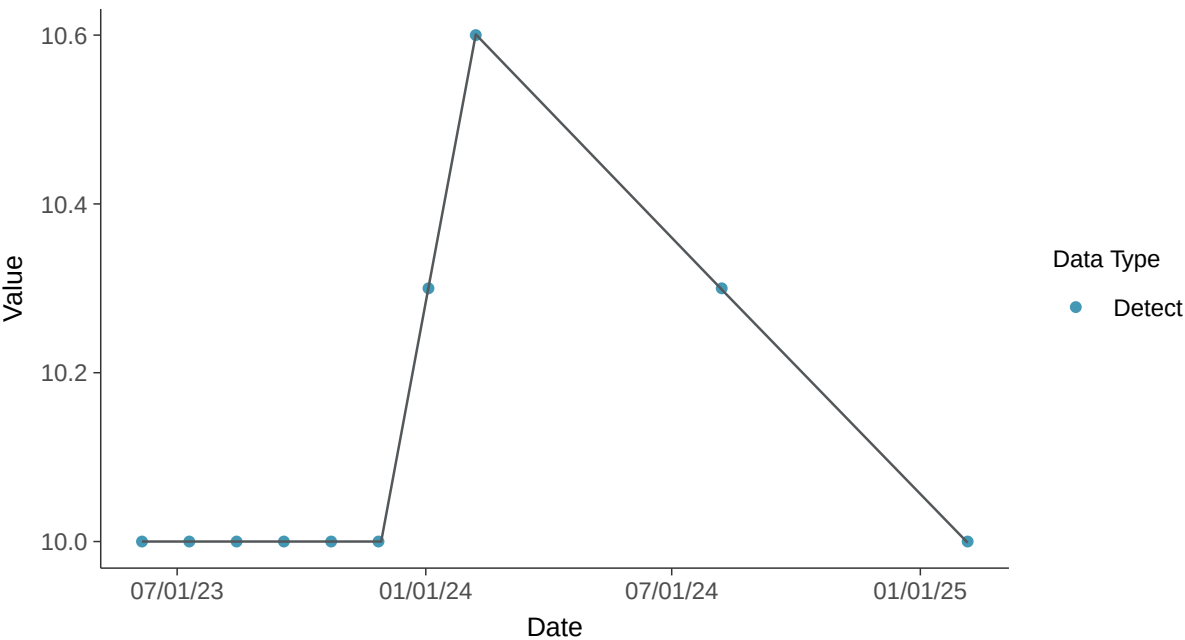
Trend Regression: Piecewise Linear-Linear

Chloride, MW-100A (mg/l)



Trend Regression: Piecewise Linear-Linear-Linear

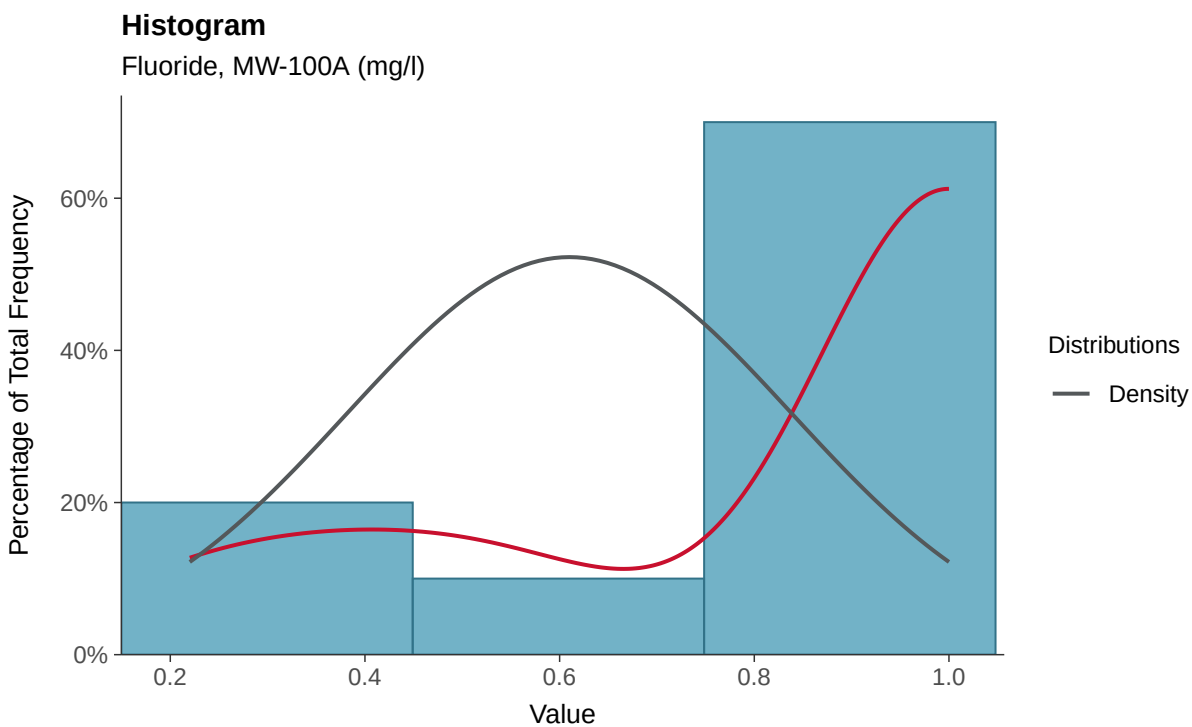
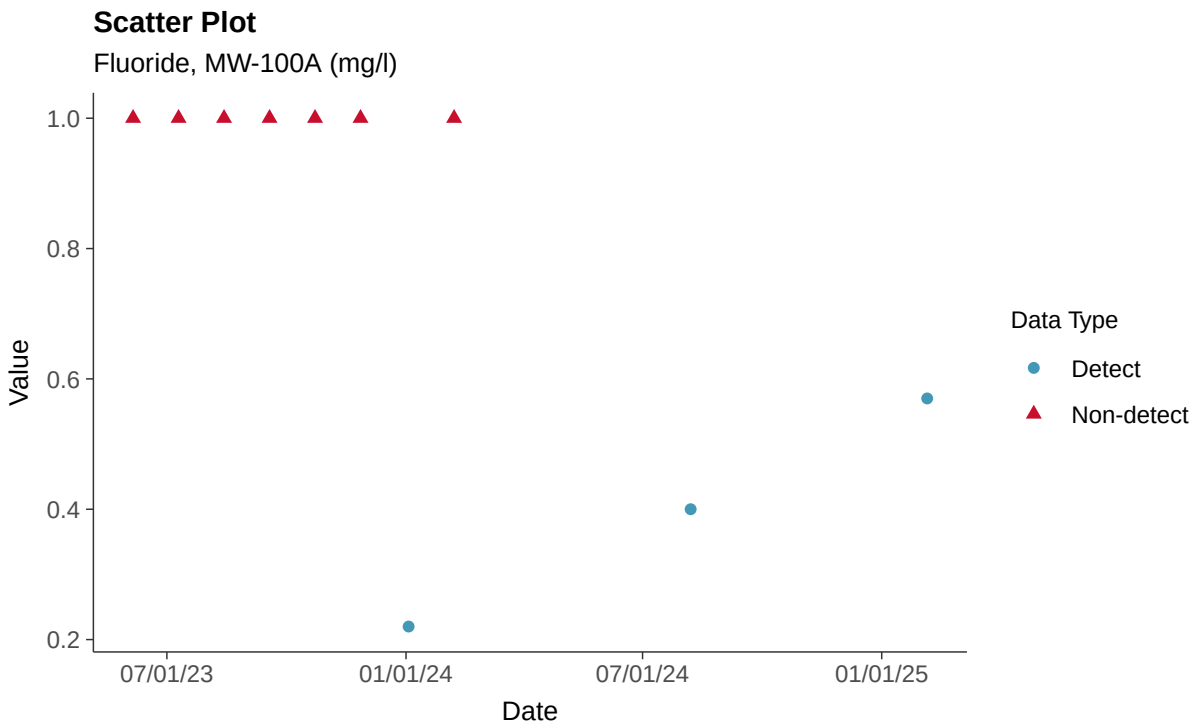
Chloride, MW-100A (mg/l)

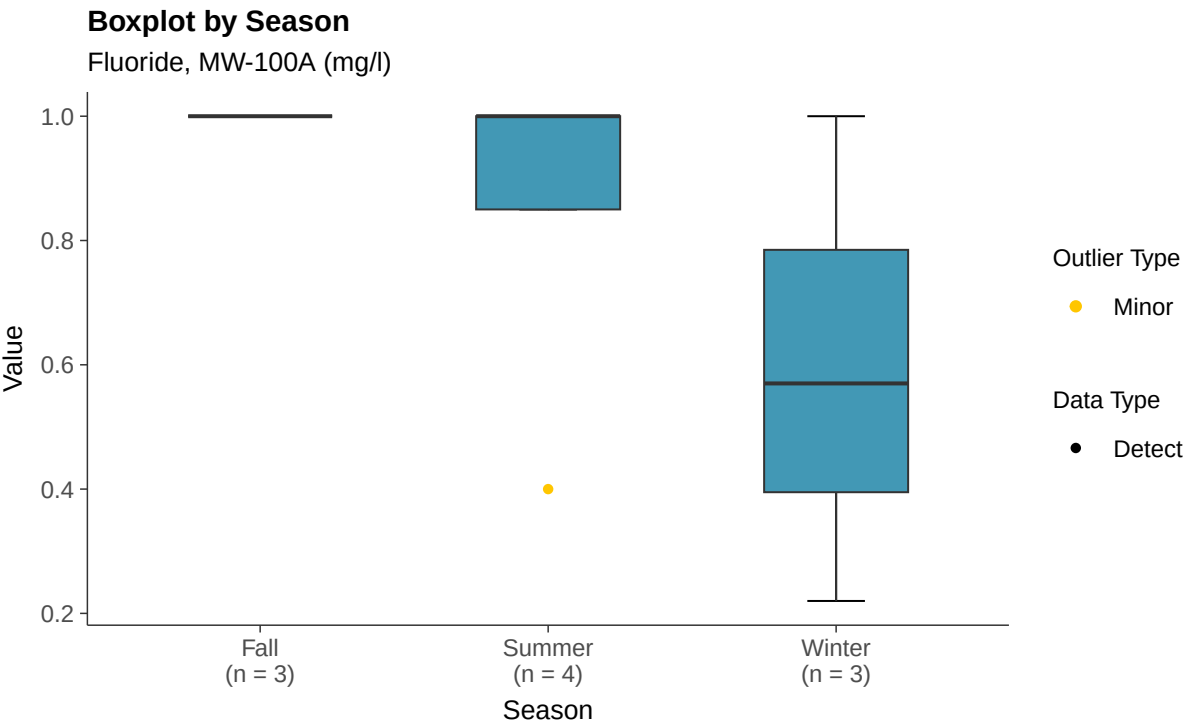
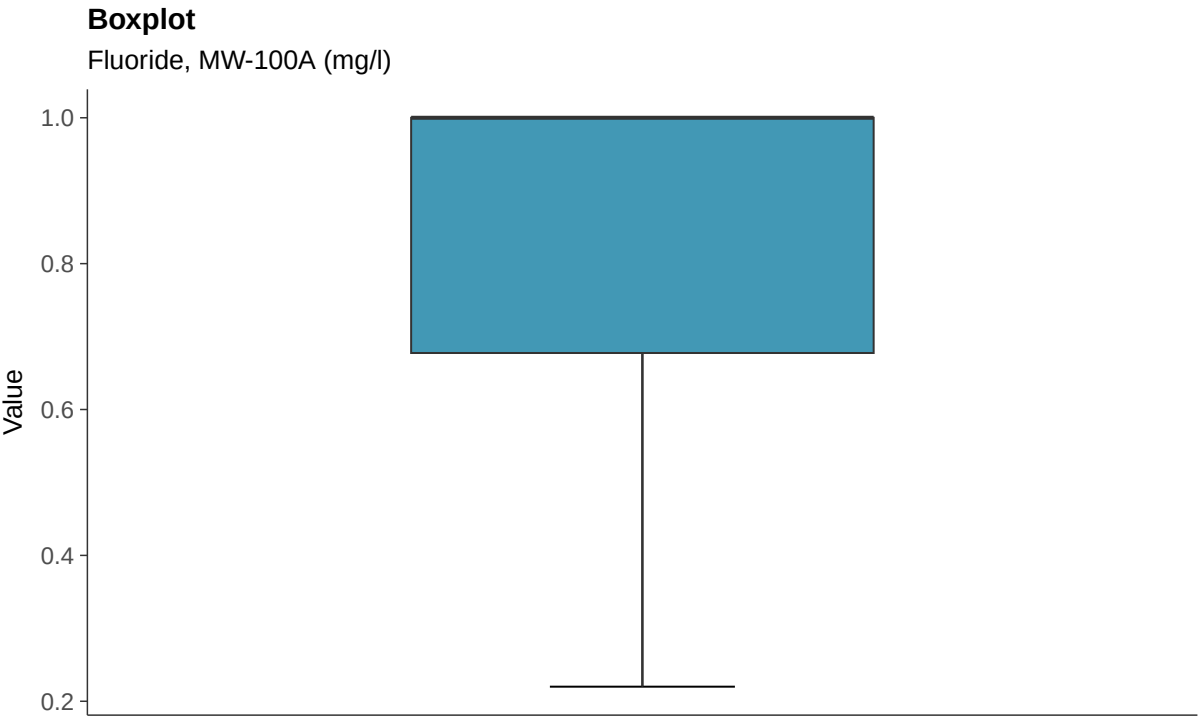




Appendix III: Fluoride, MW-100A

ID: 30_2_112

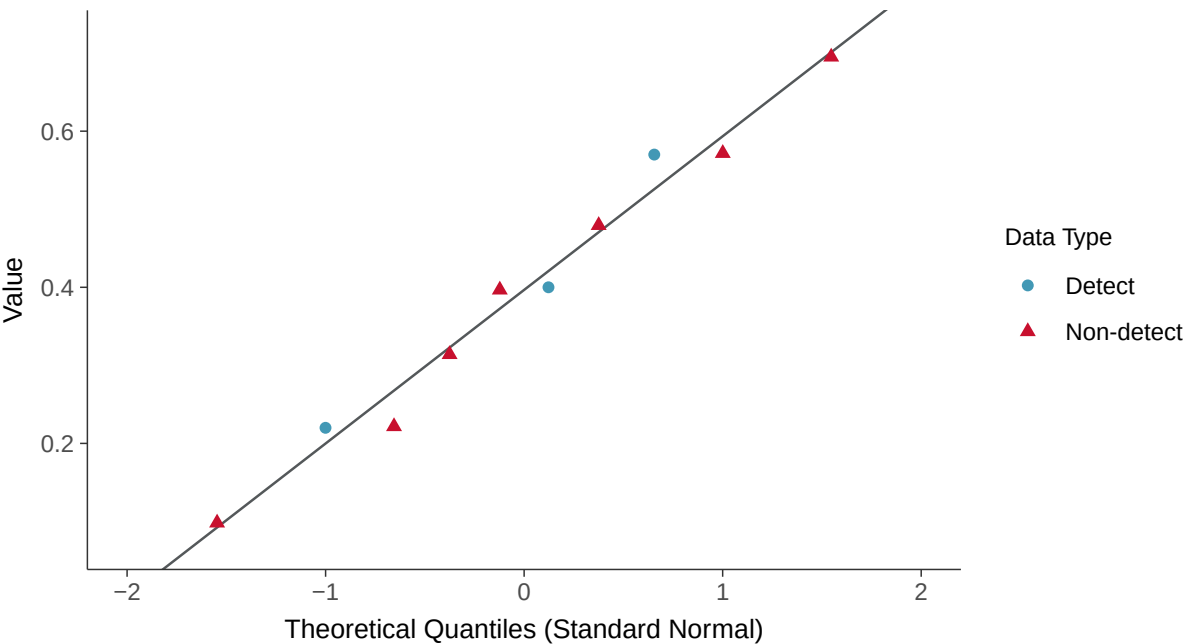






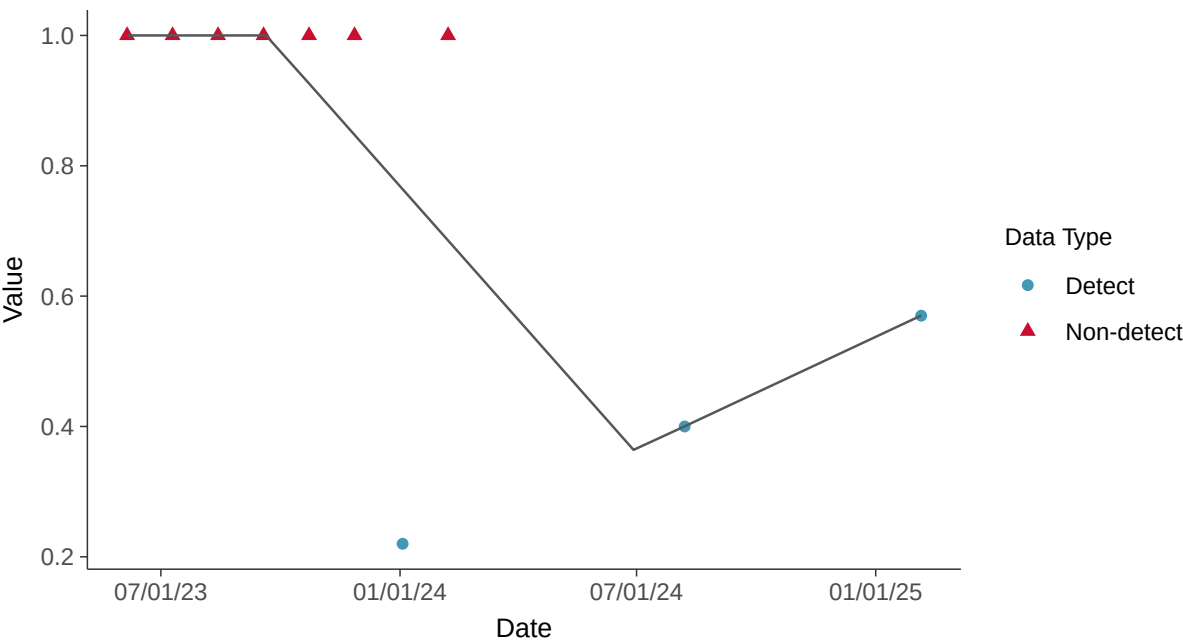
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-100A (mg/l)



Trend Regression: Piecewise Linear-Linear-Linear

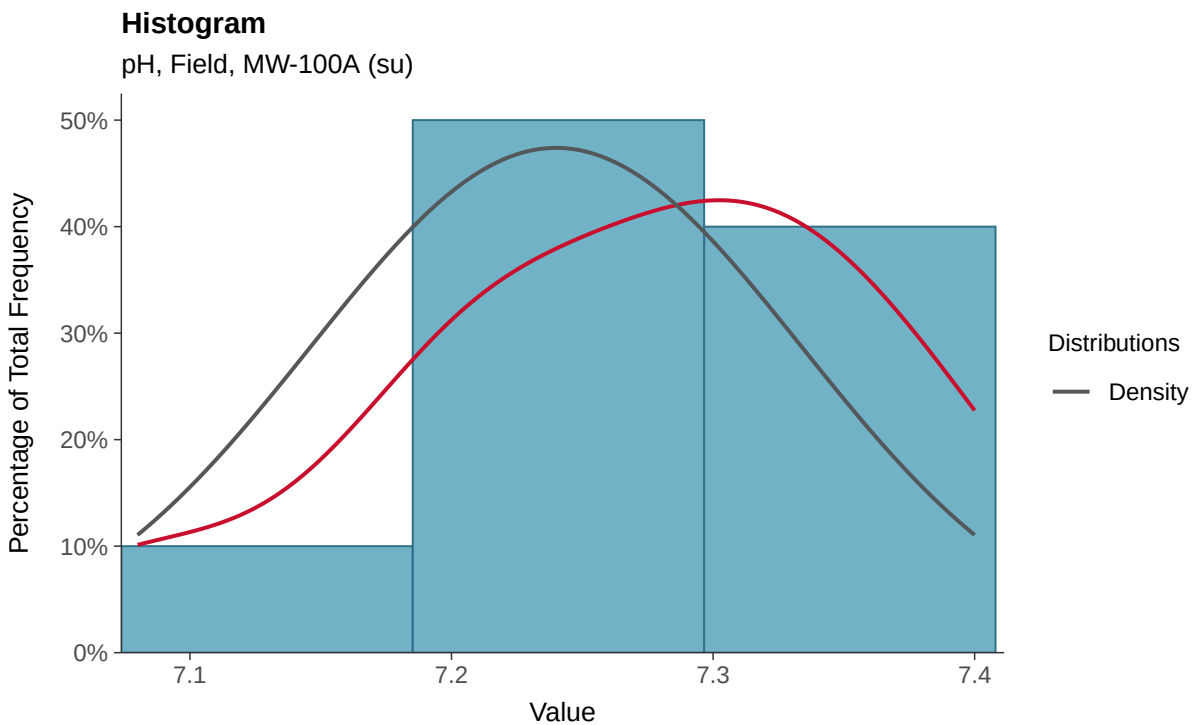
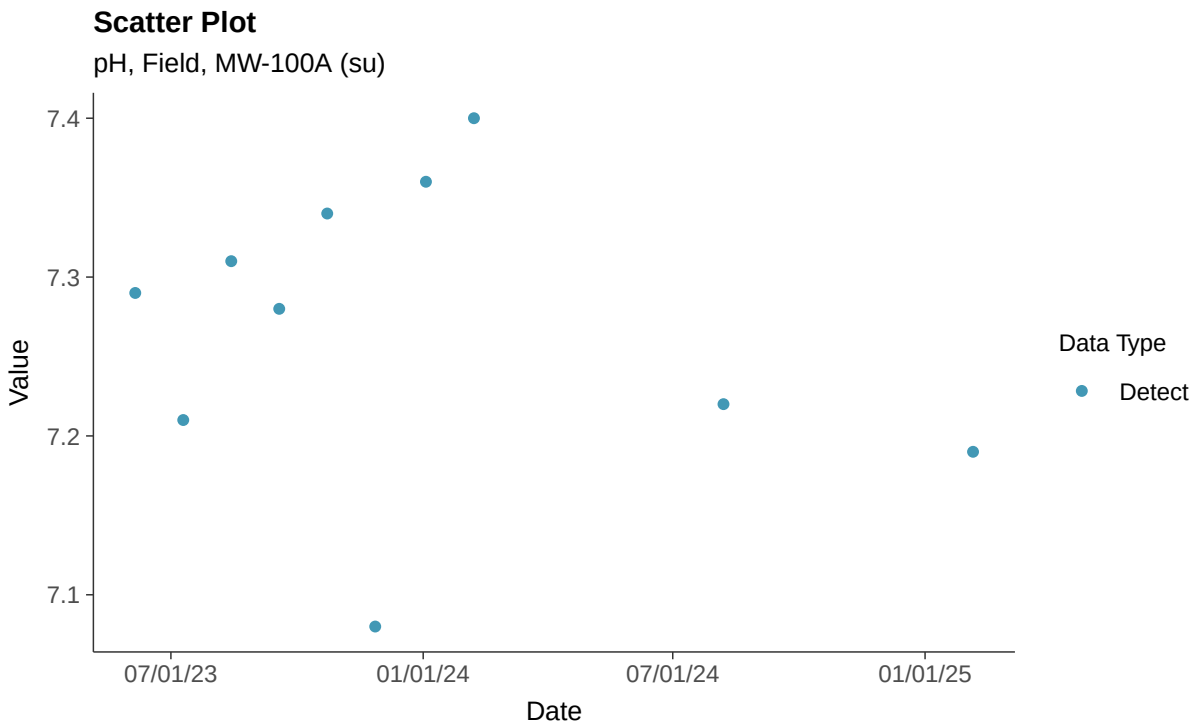
Fluoride, MW-100A (mg/l)

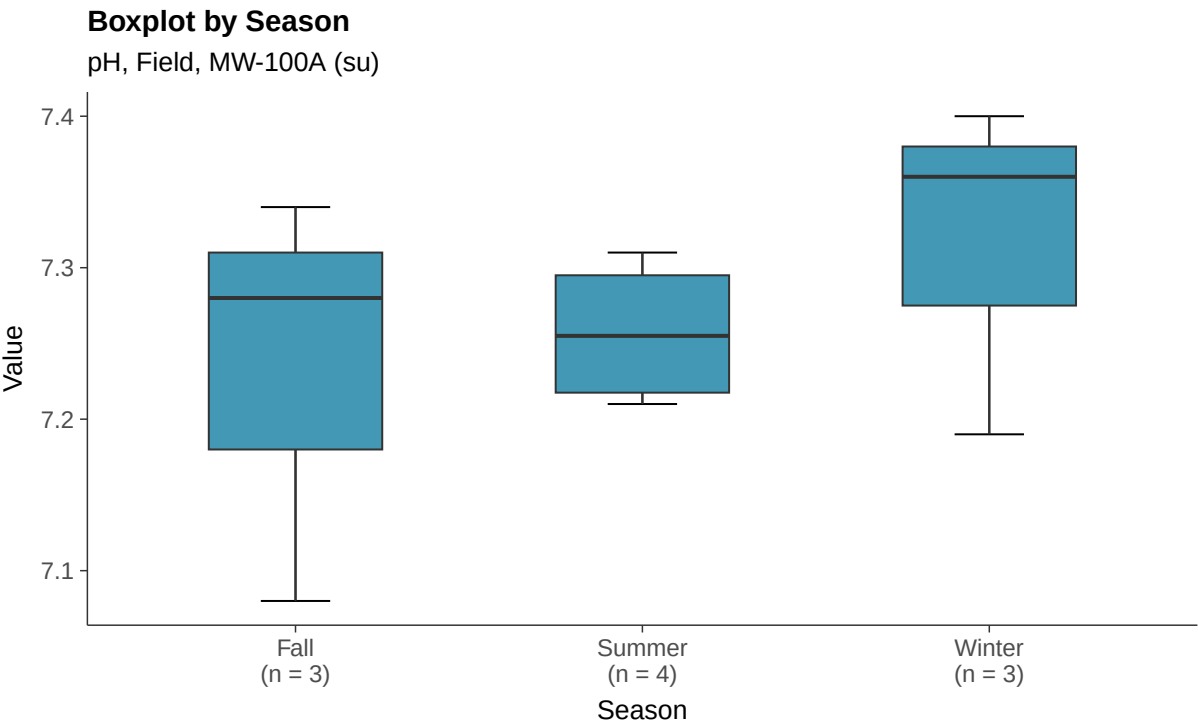
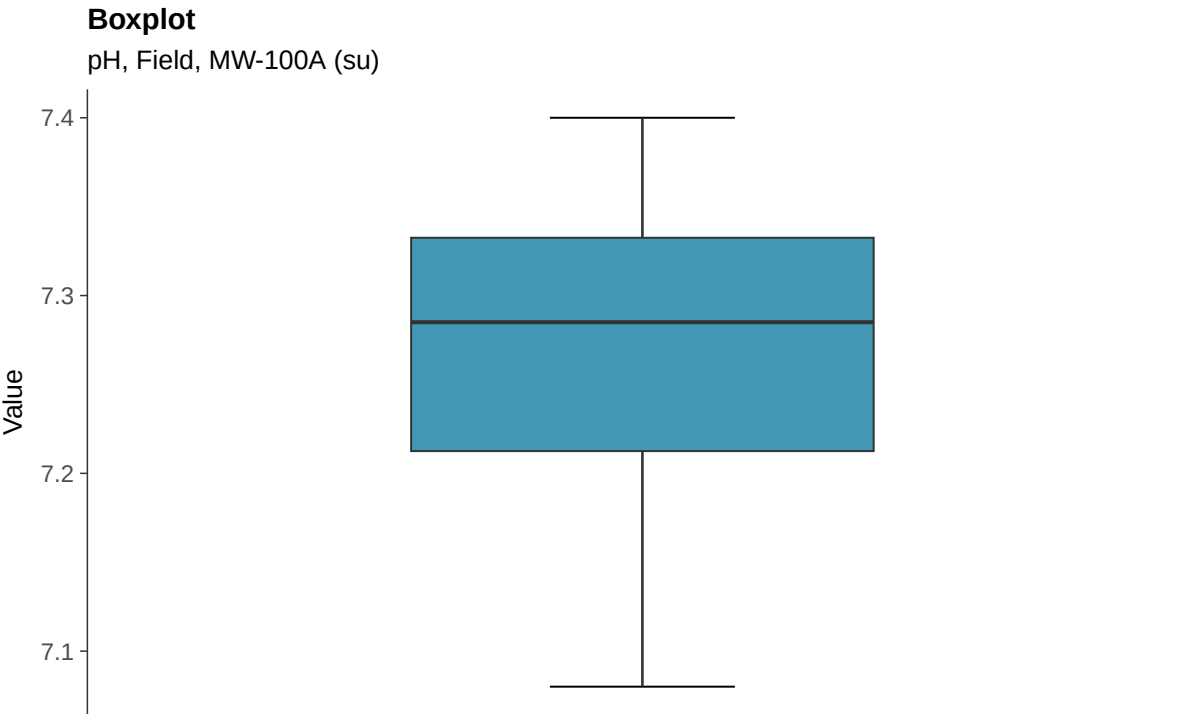


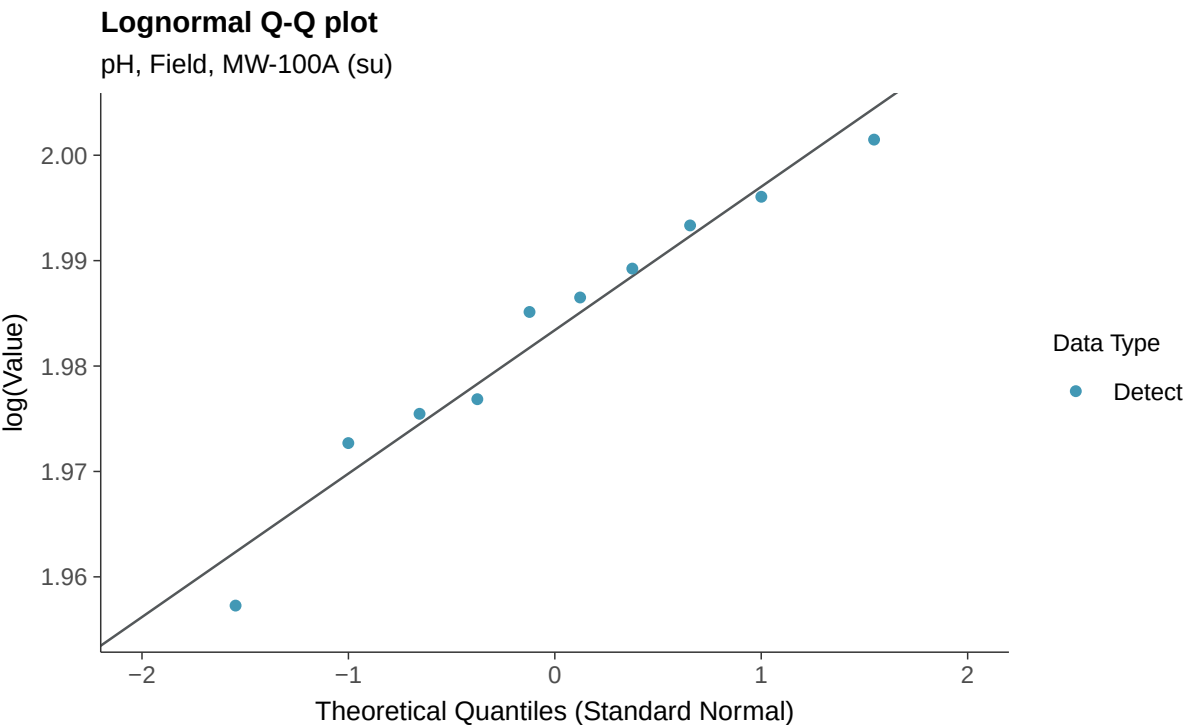
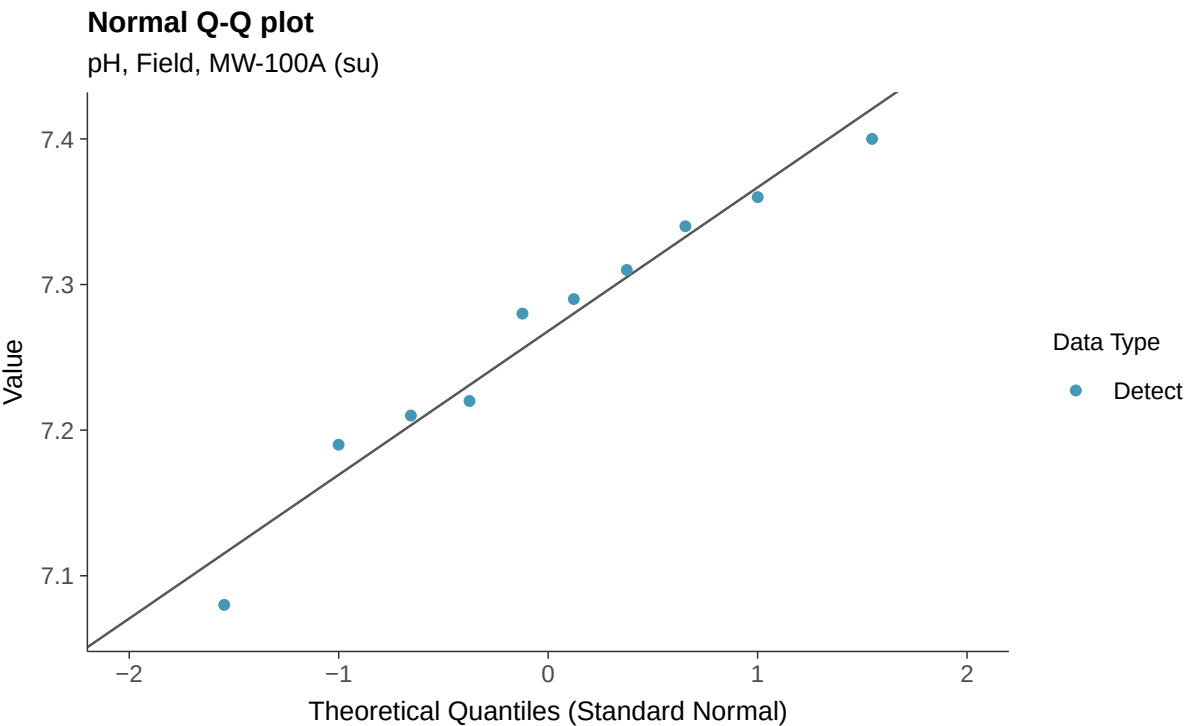


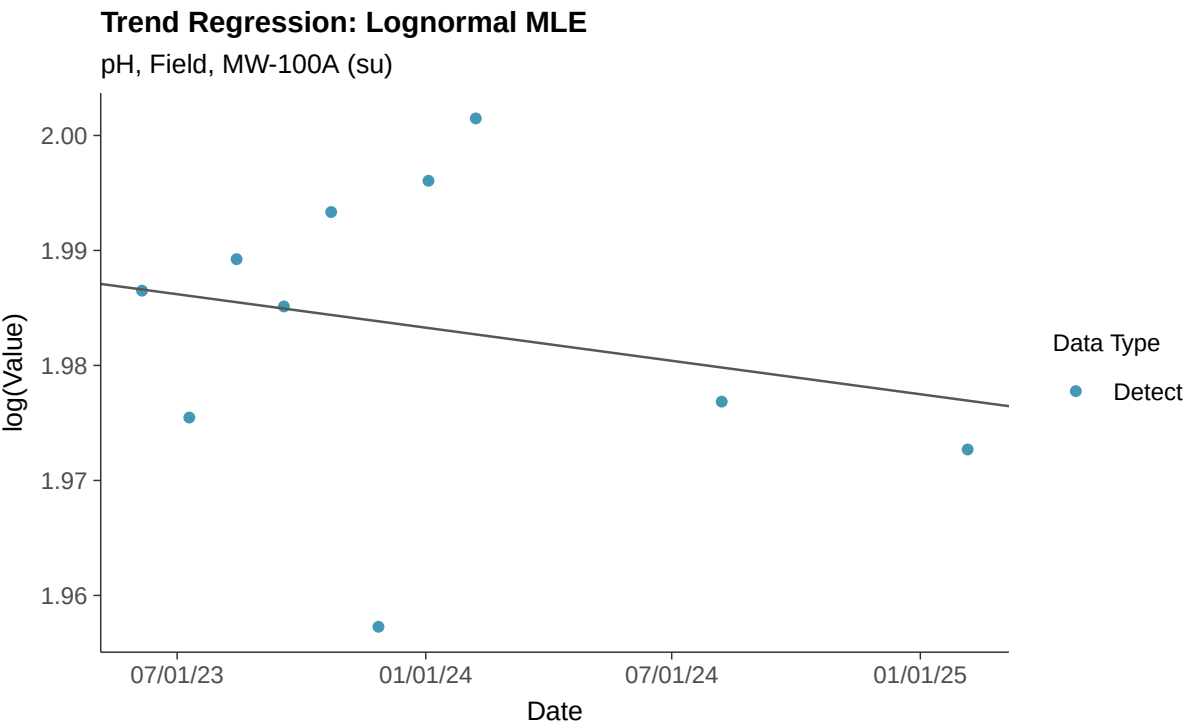
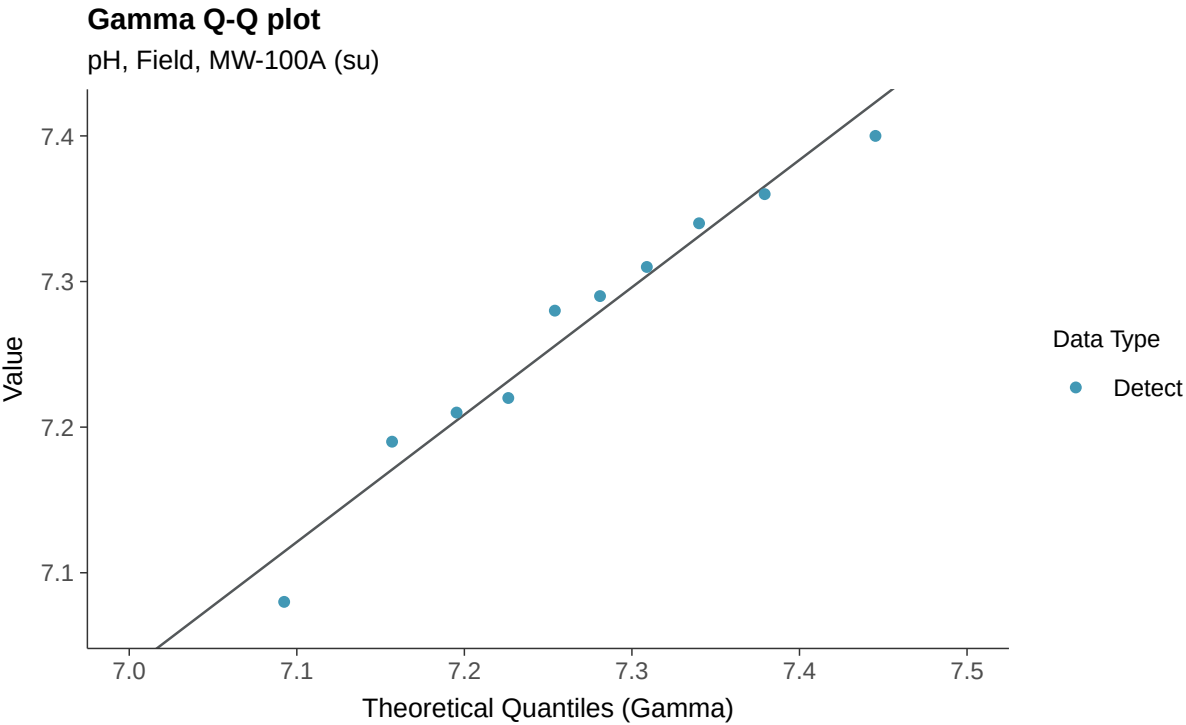
Appendix III: pH, Field, MW-100A

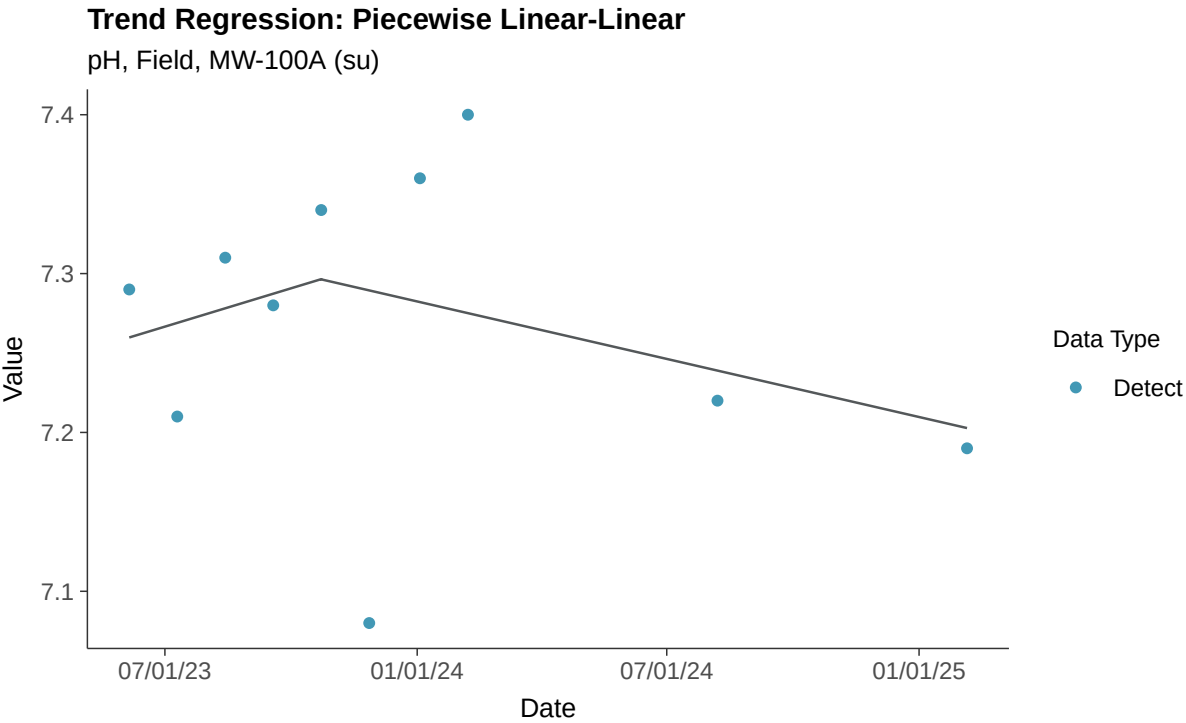
ID: 30_2_120







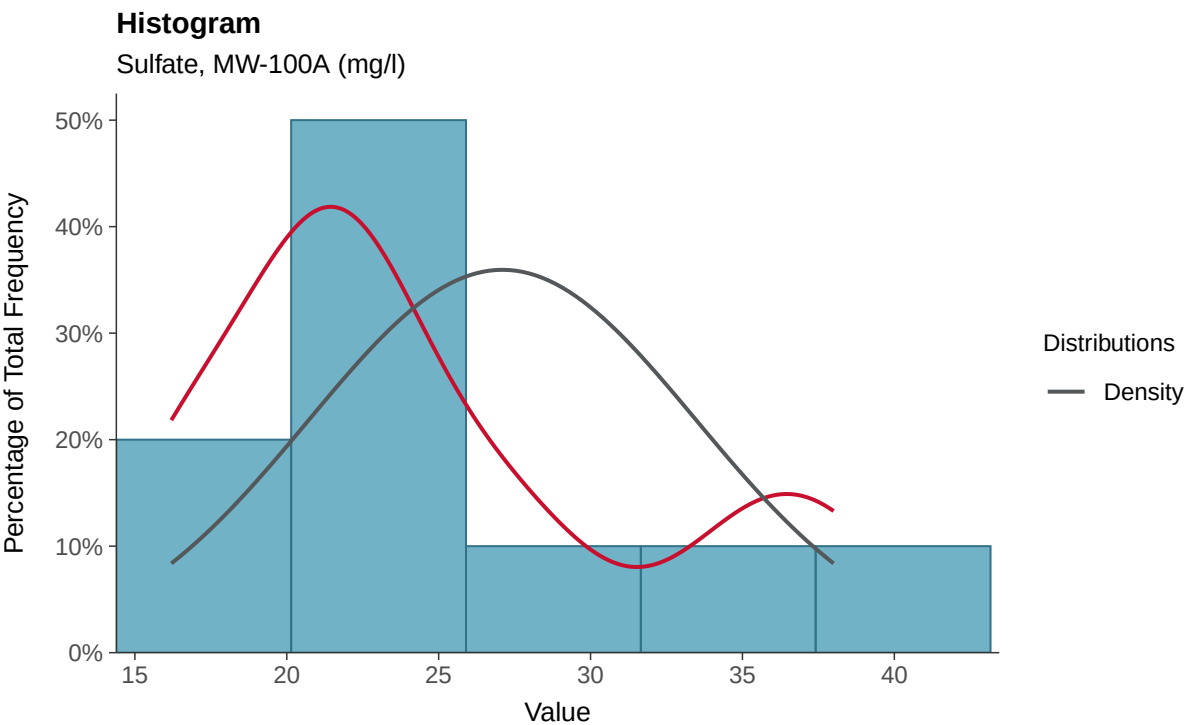
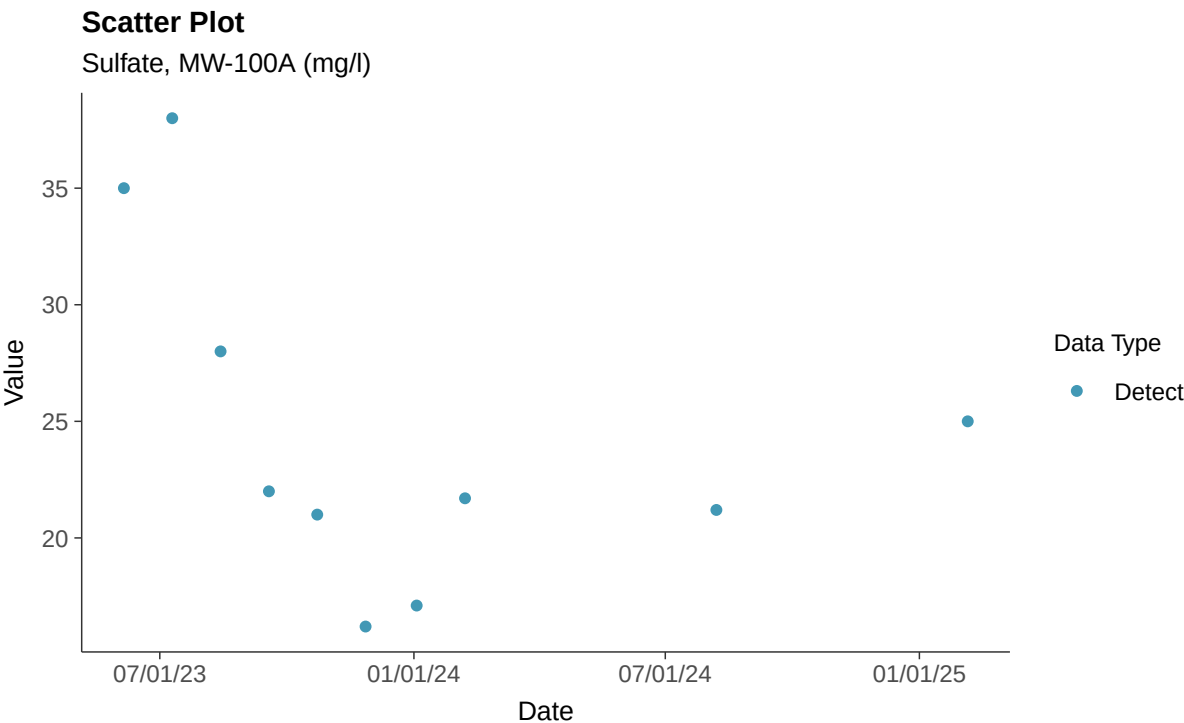


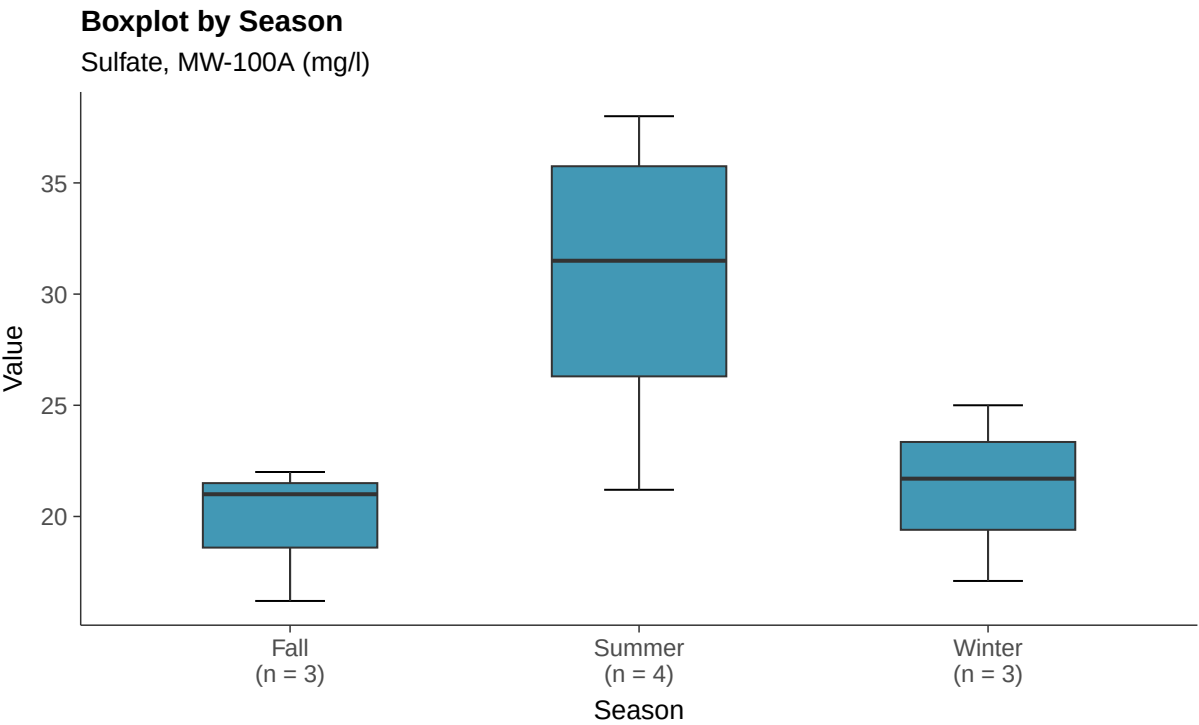
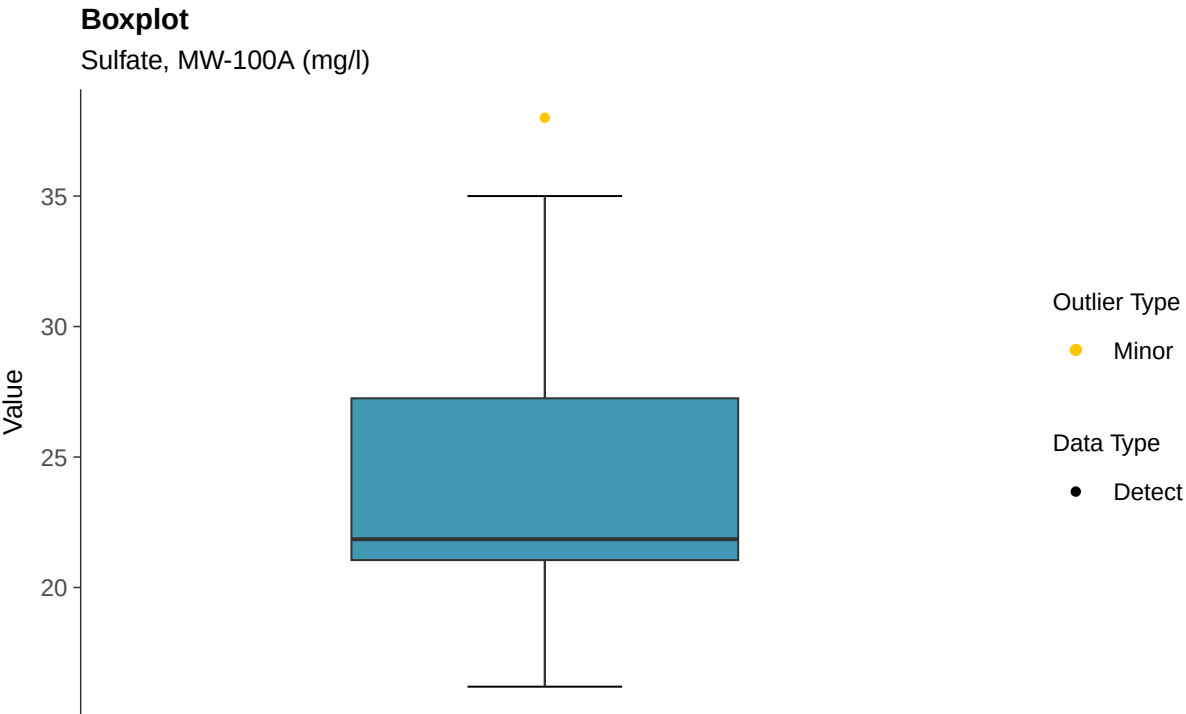


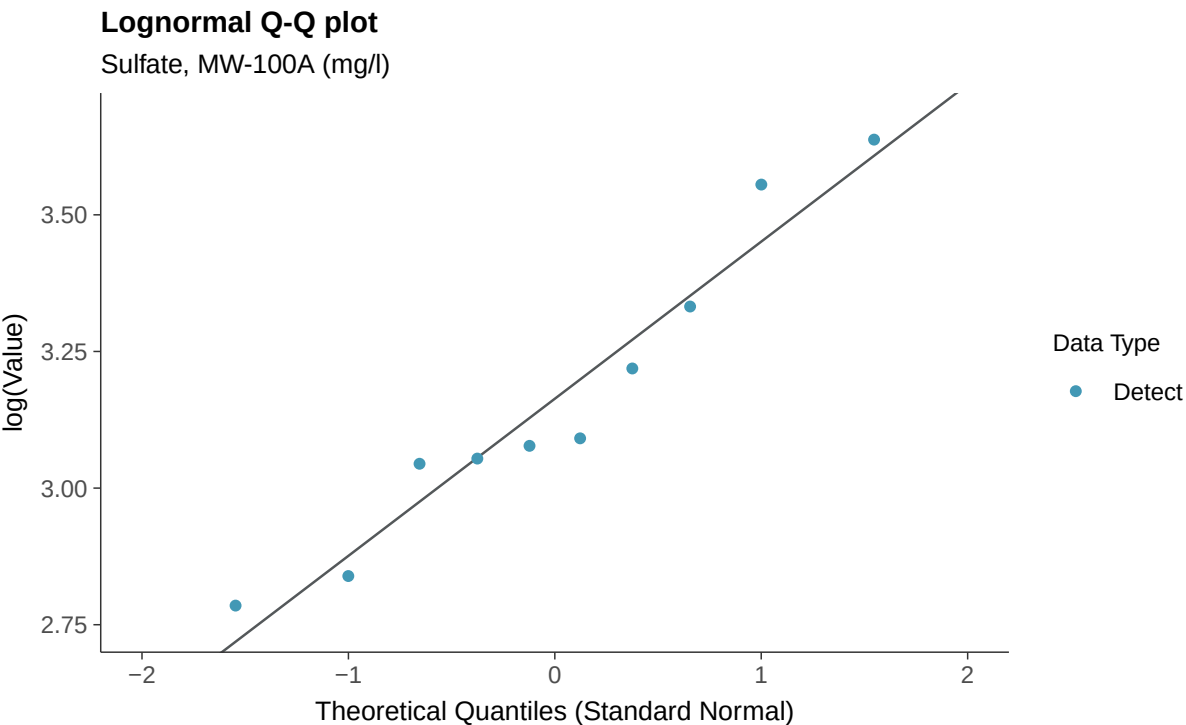
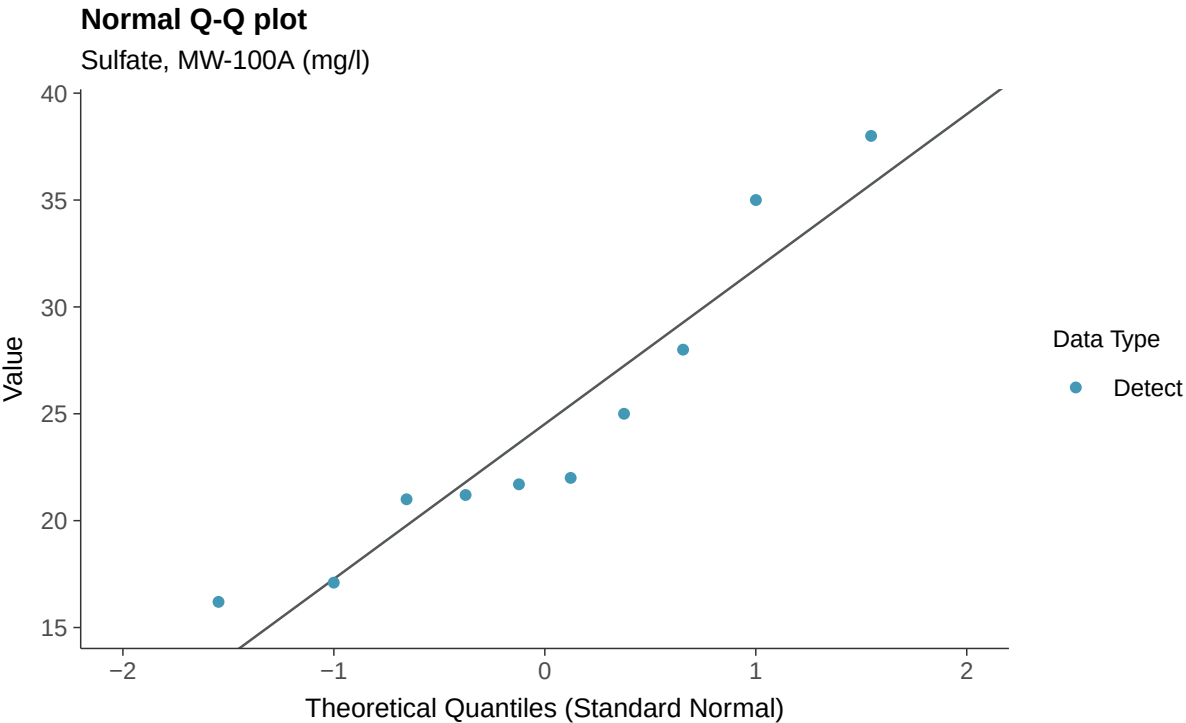


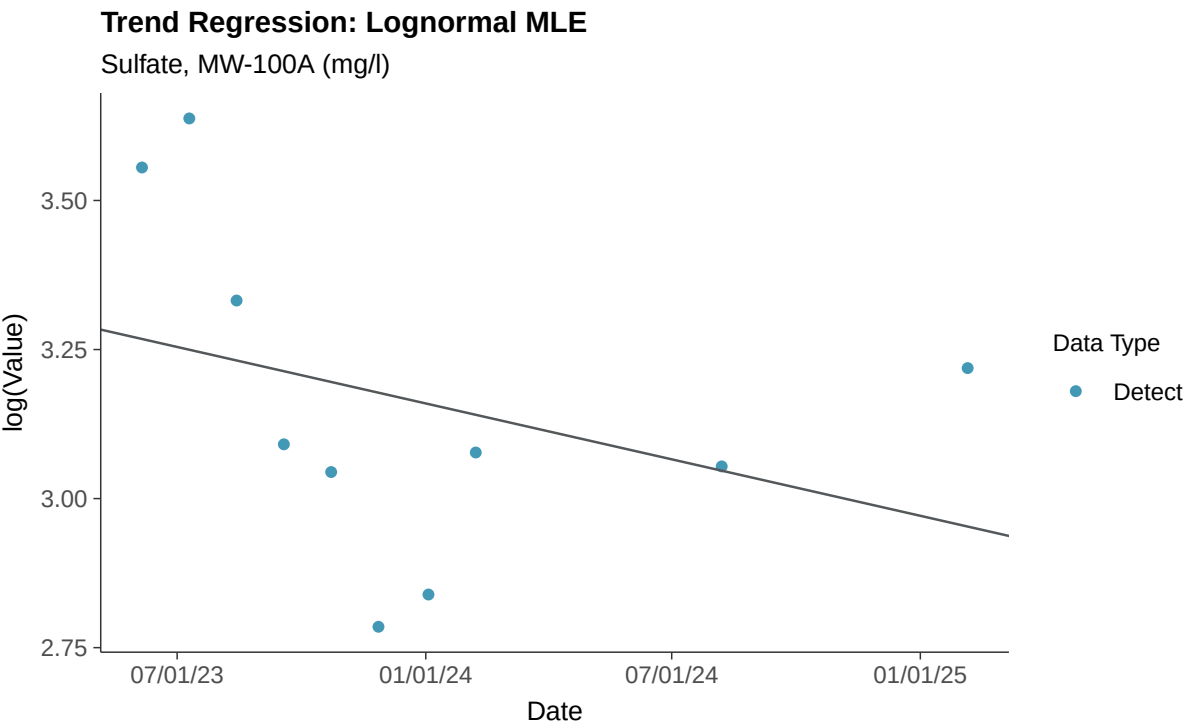
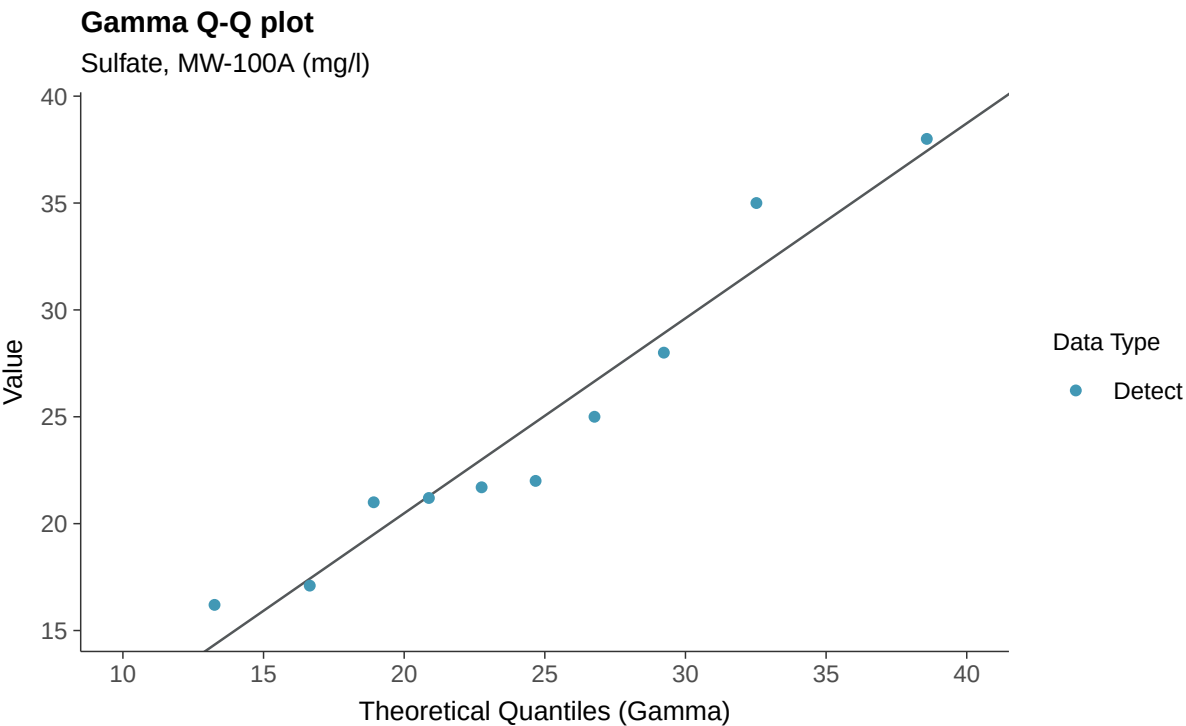
Appendix III: Sulfate, MW-100A

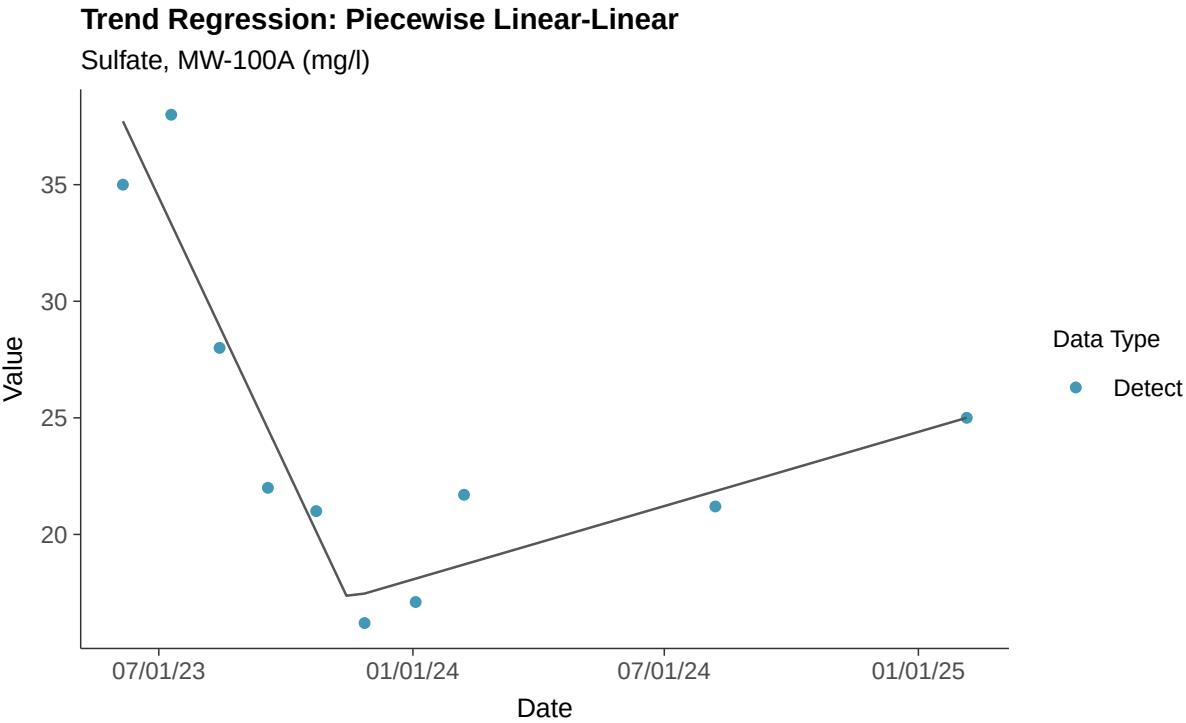
ID: 30_2_124







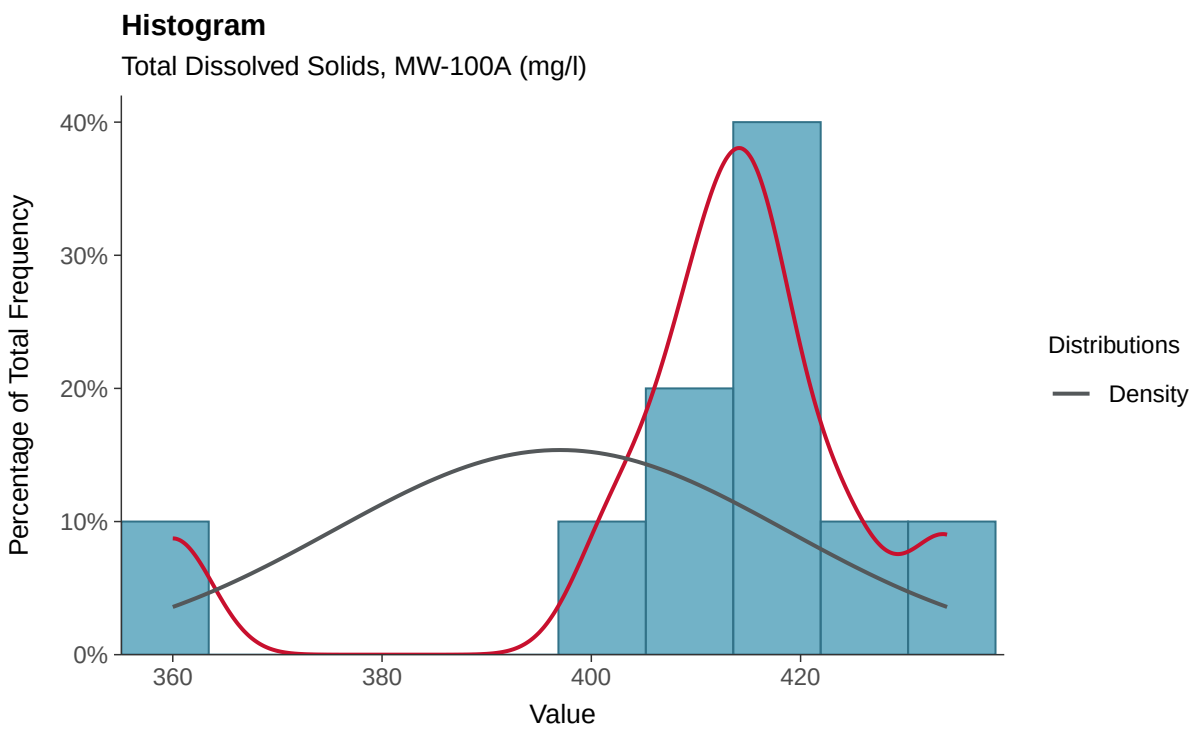
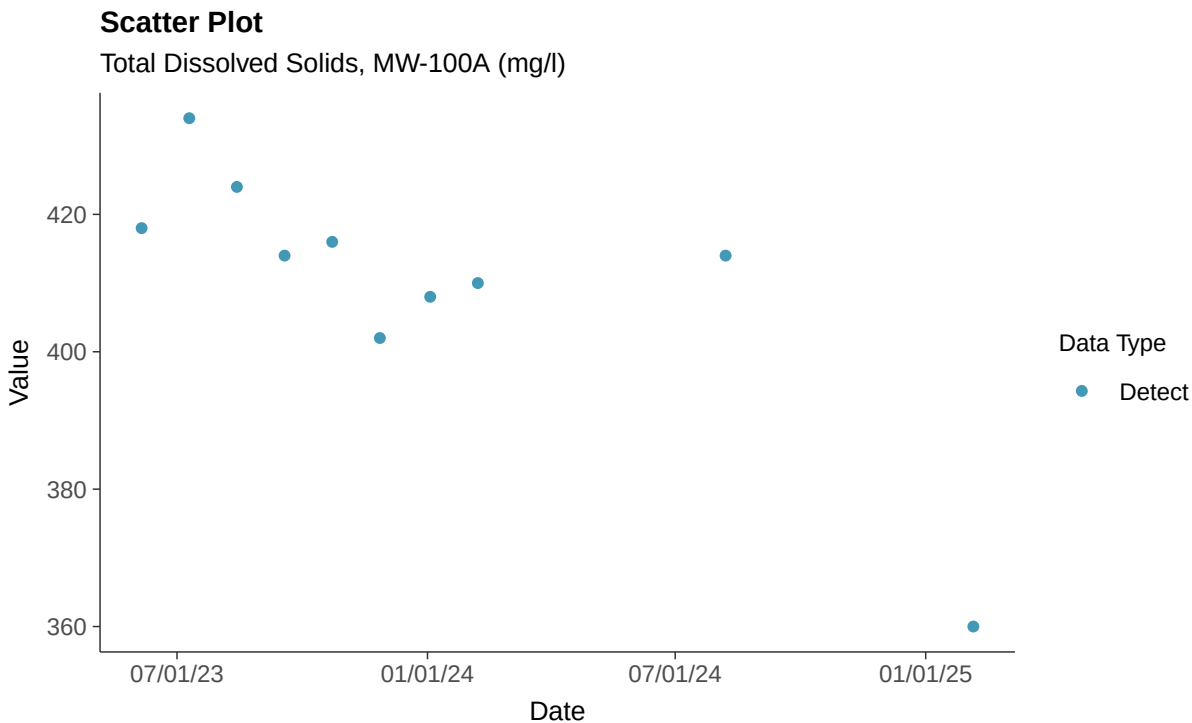


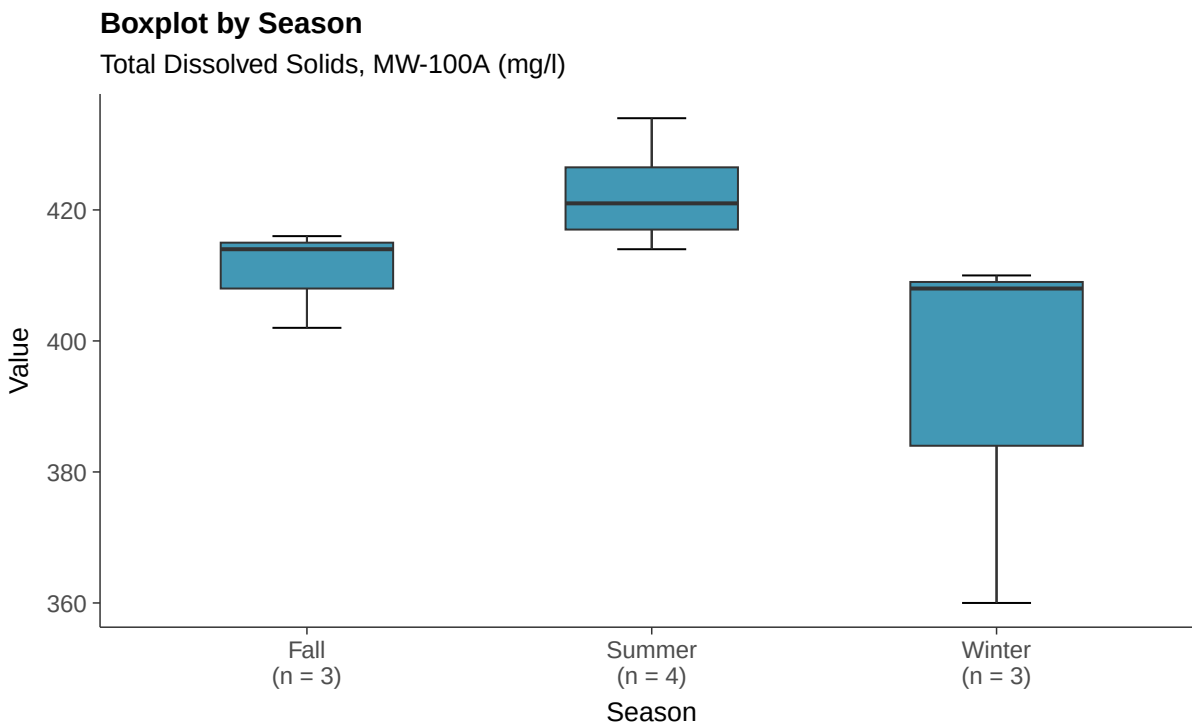
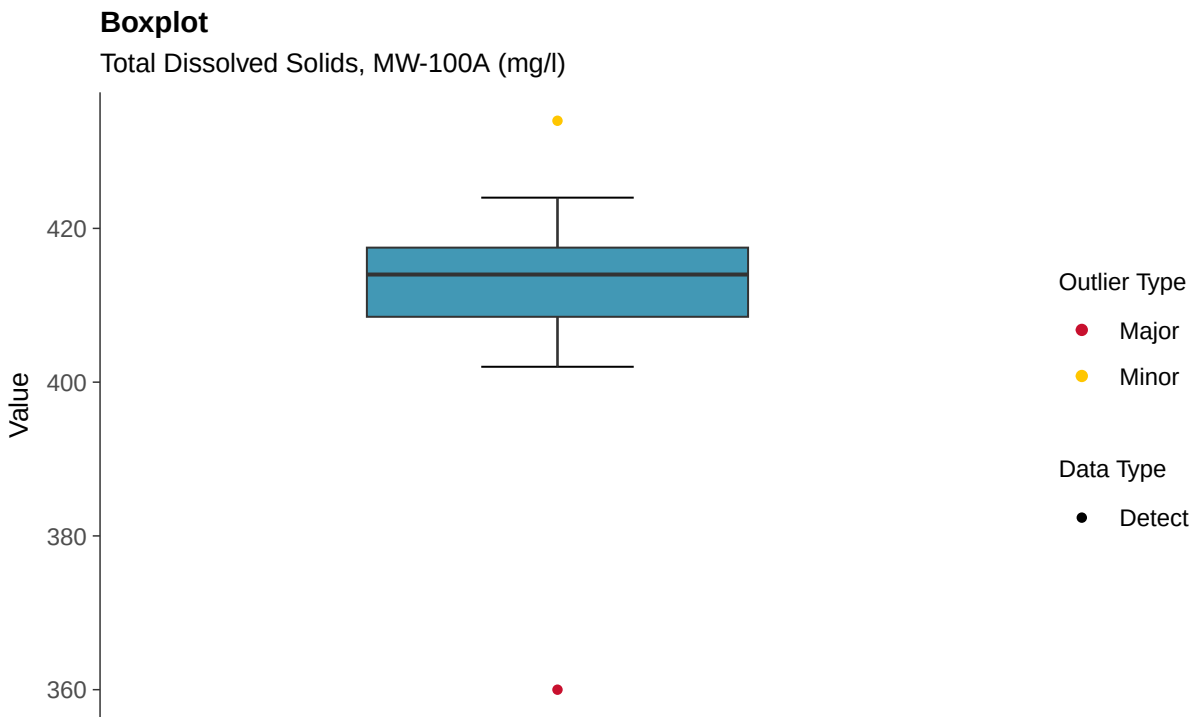


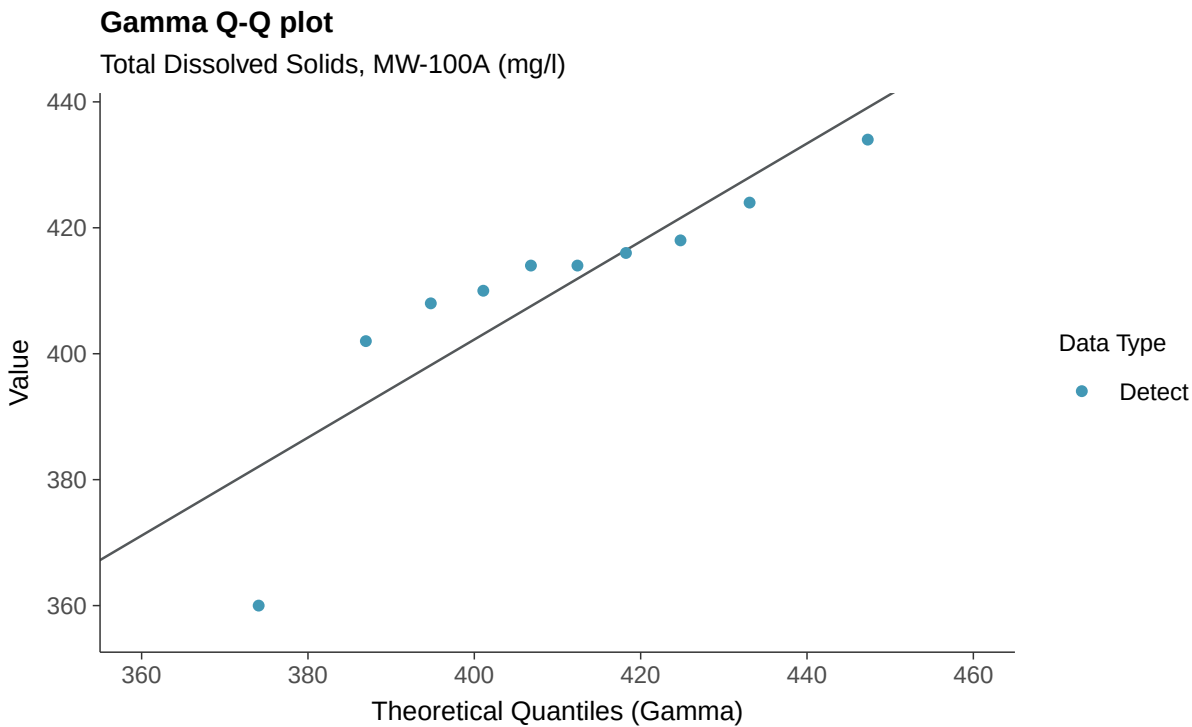
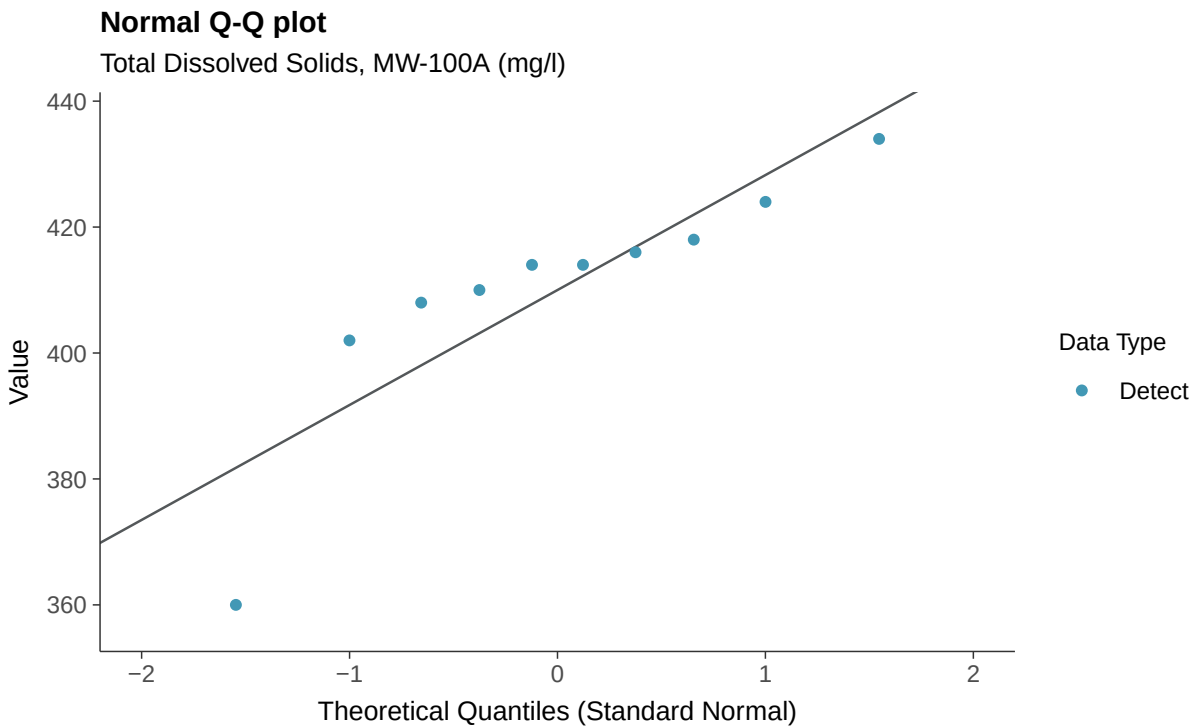


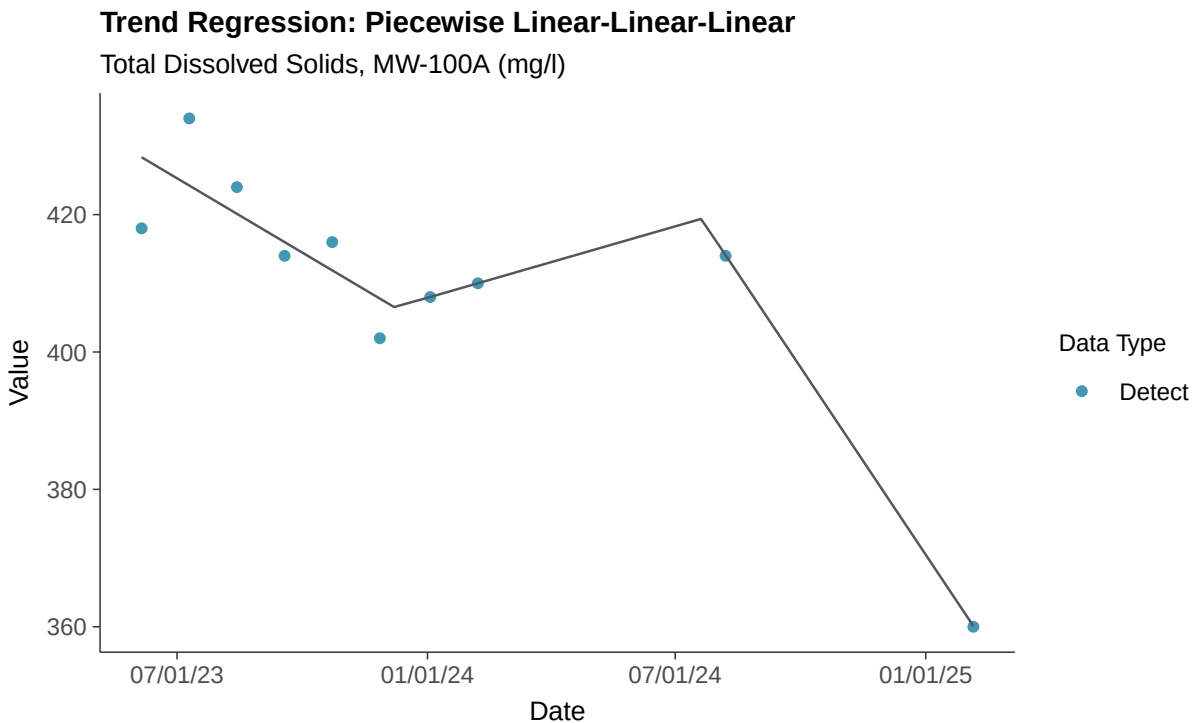
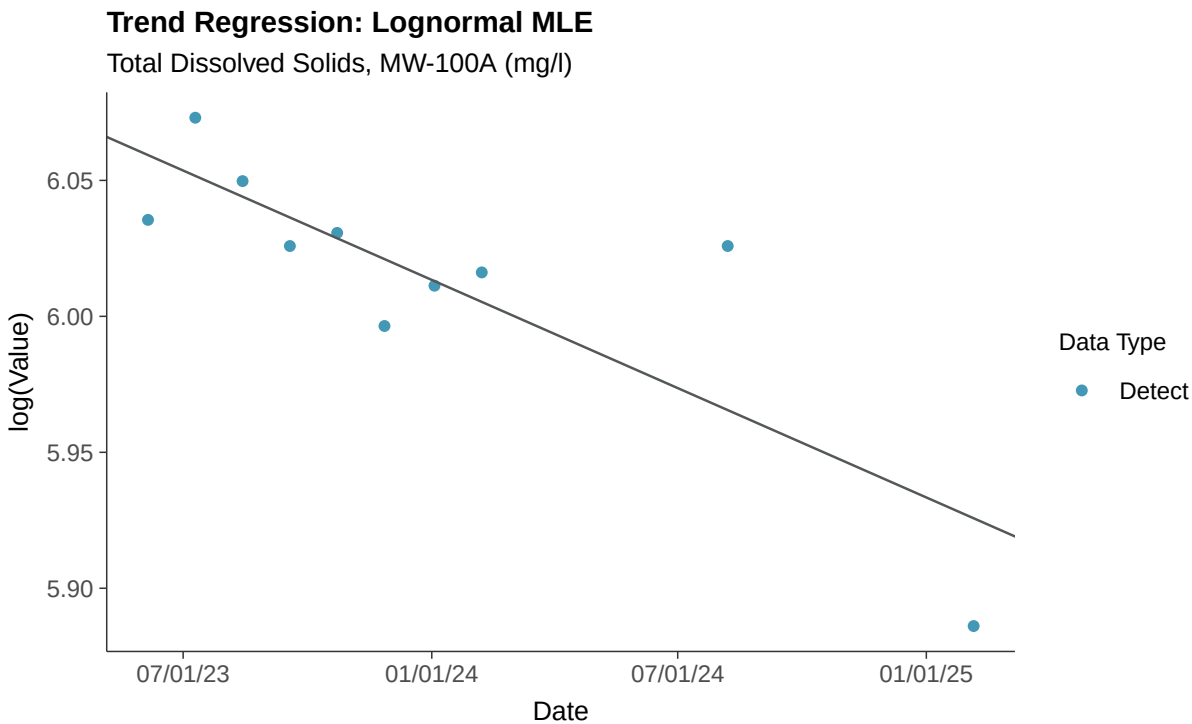
Appendix III: Total Dissolved Solids, MW-100A

ID: 30_2_126





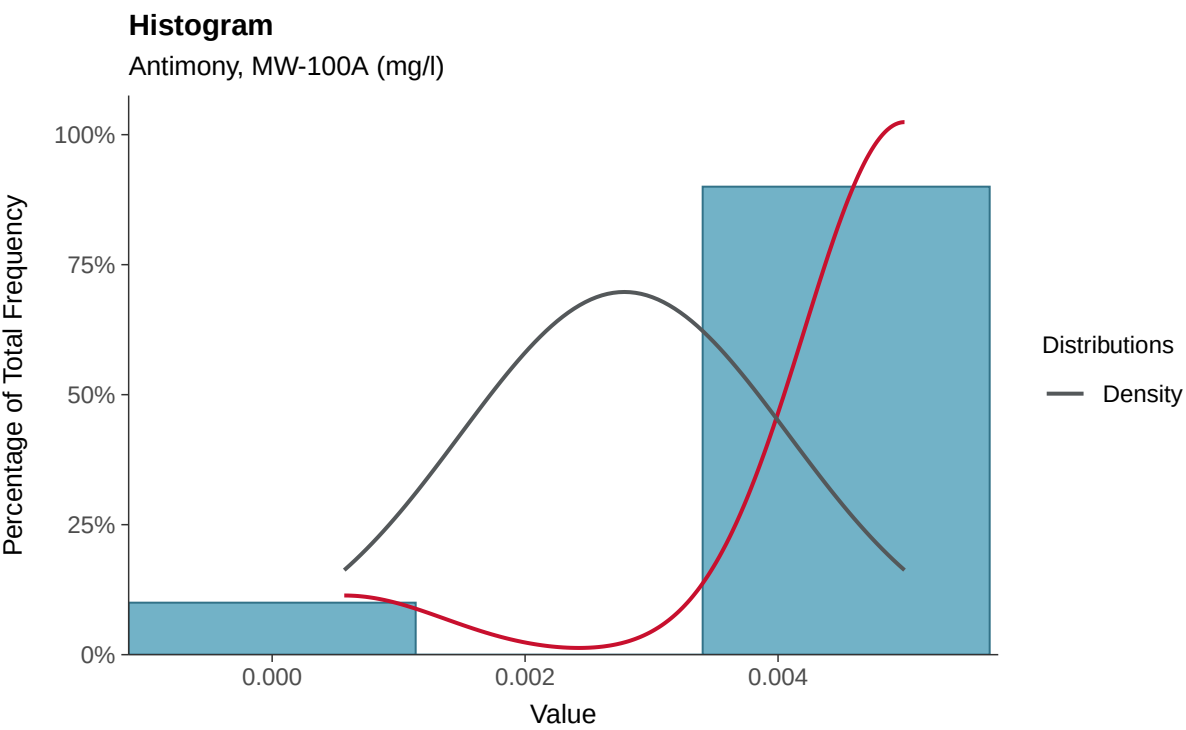
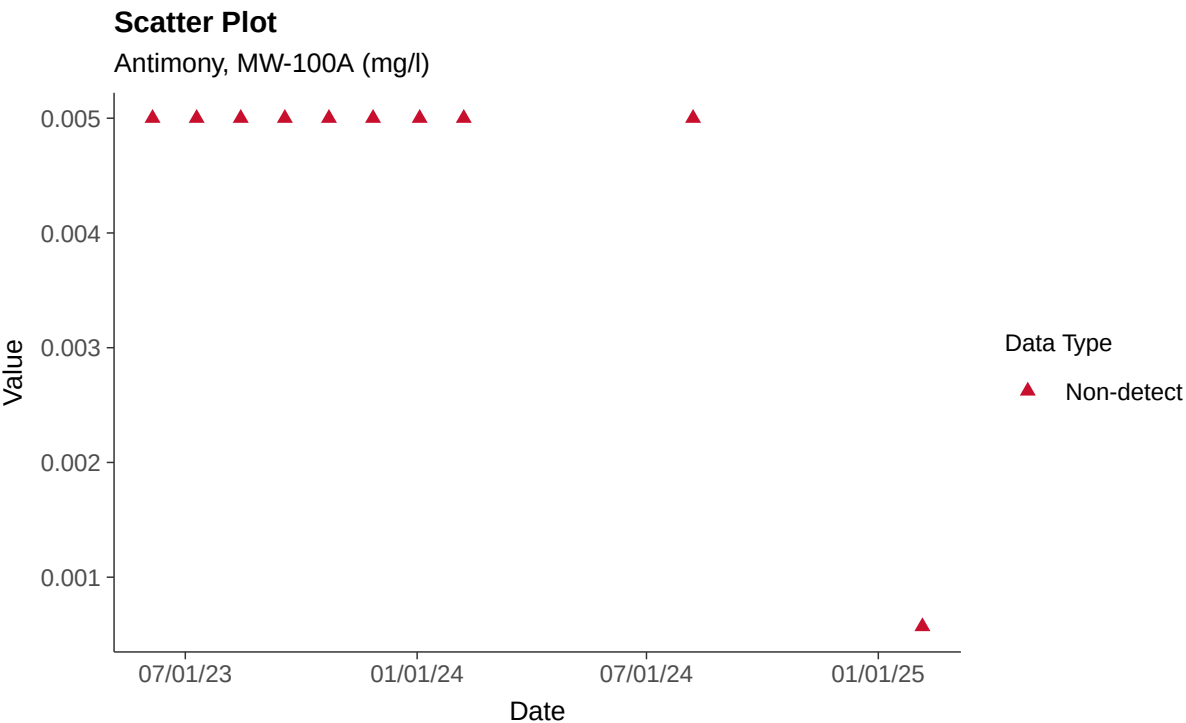


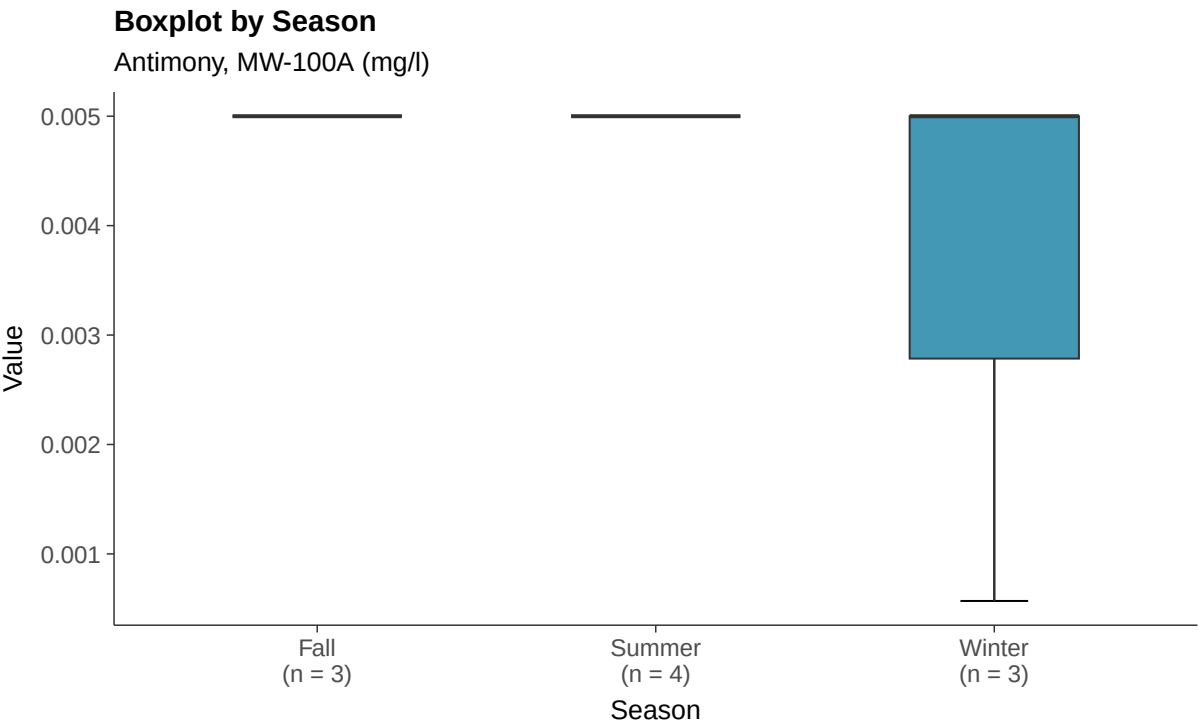
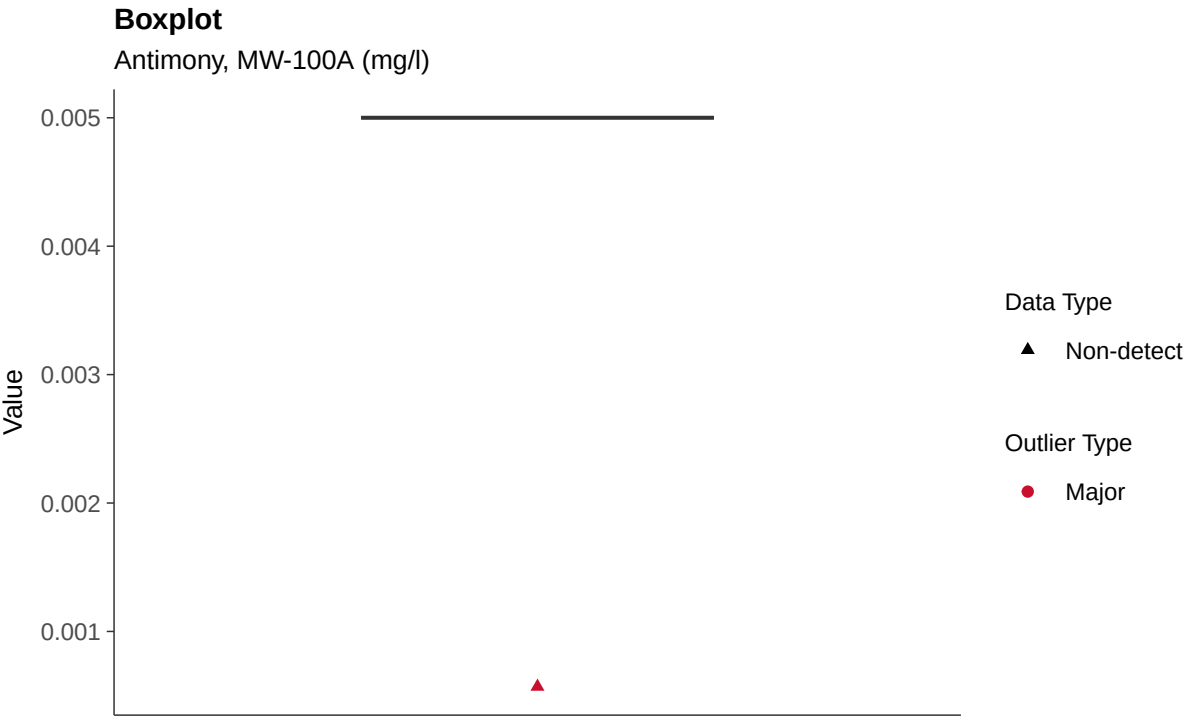




Appendix IV: Antimony, MW-100A

ID: 30_3_101

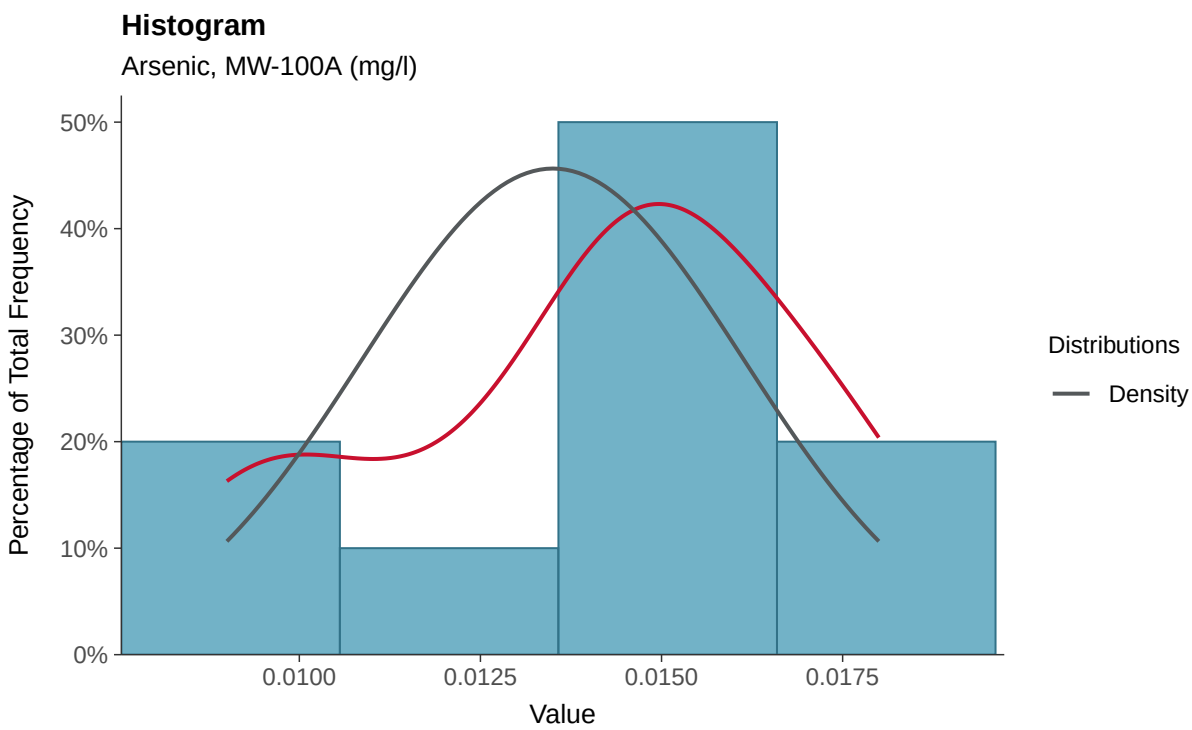
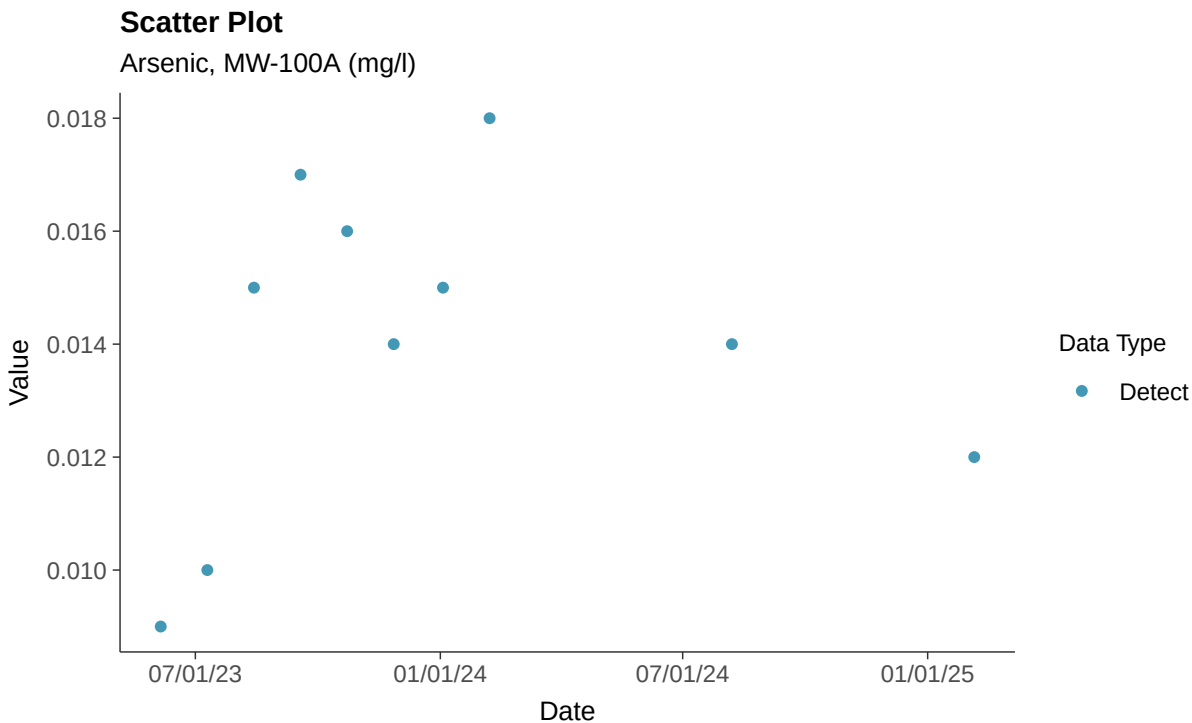


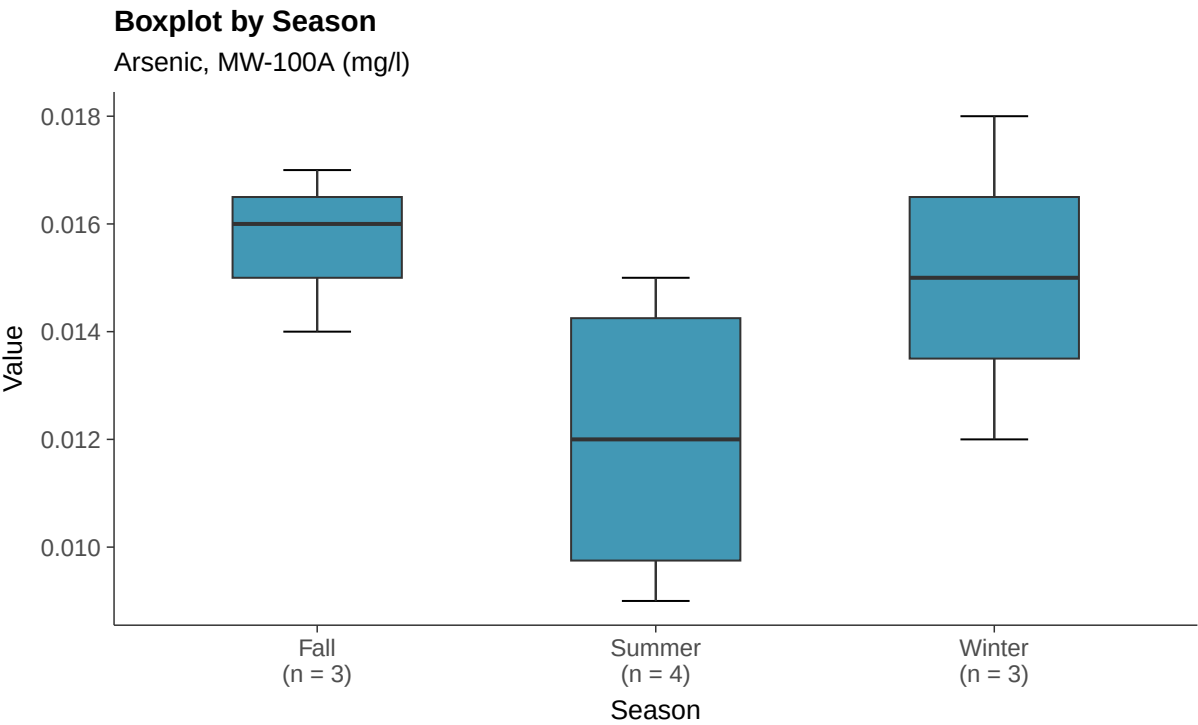
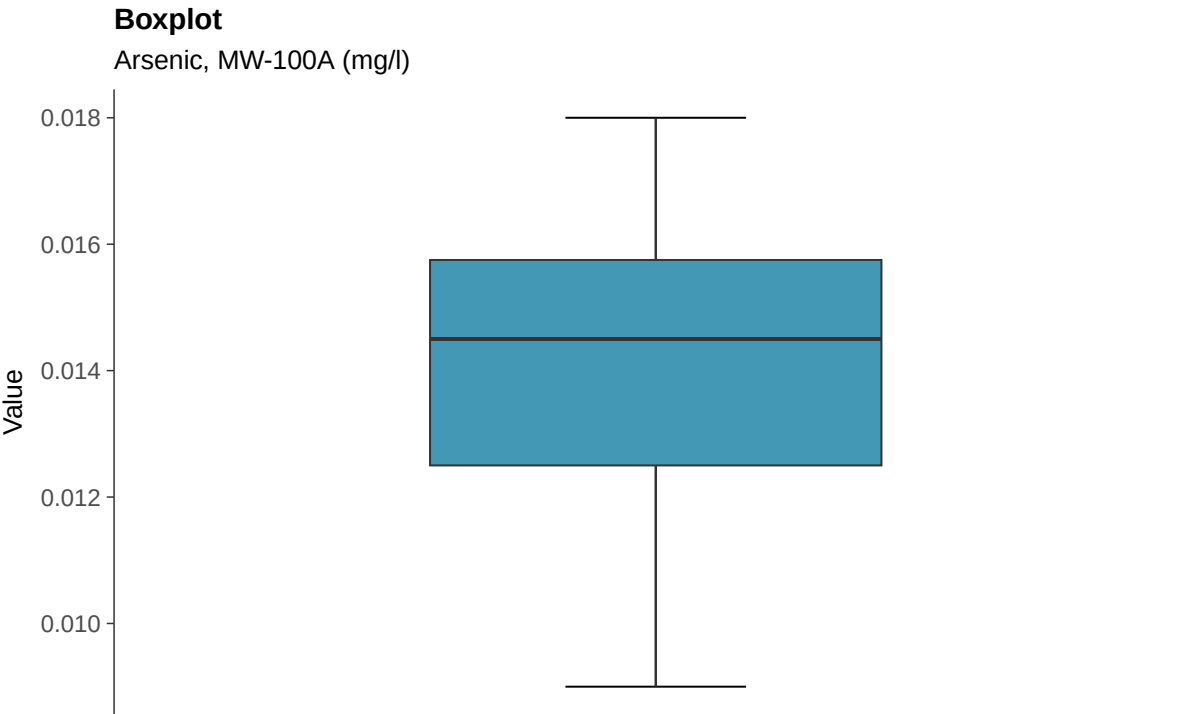


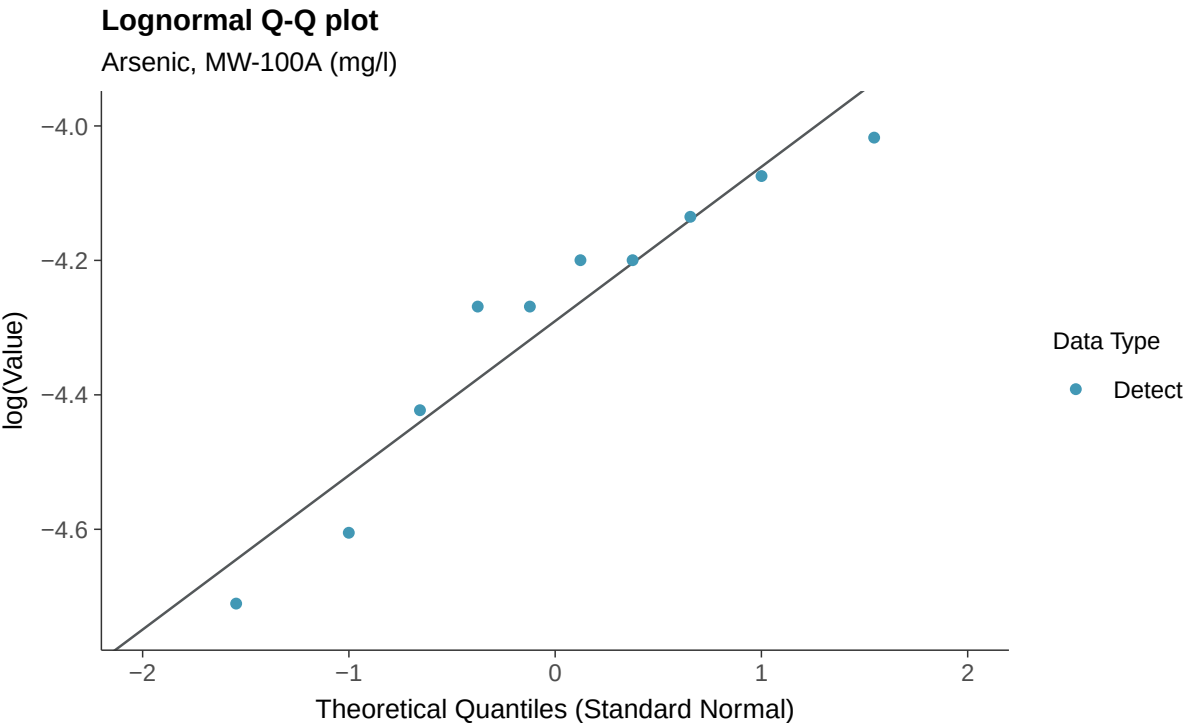
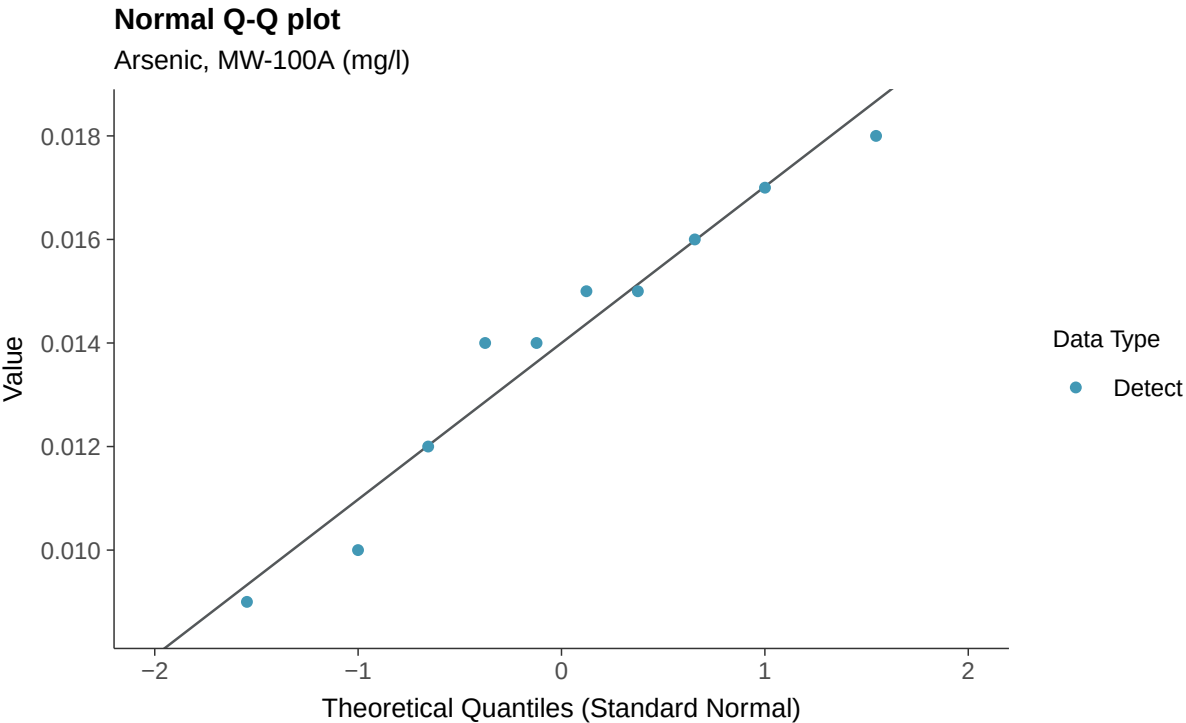


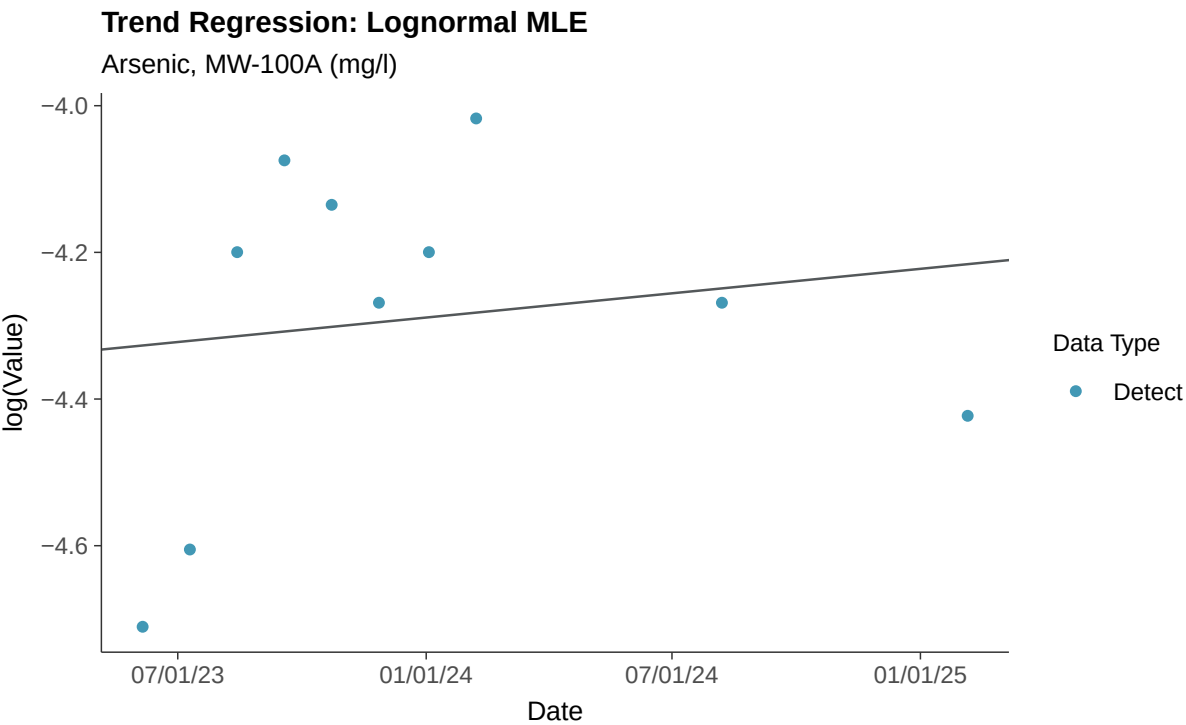
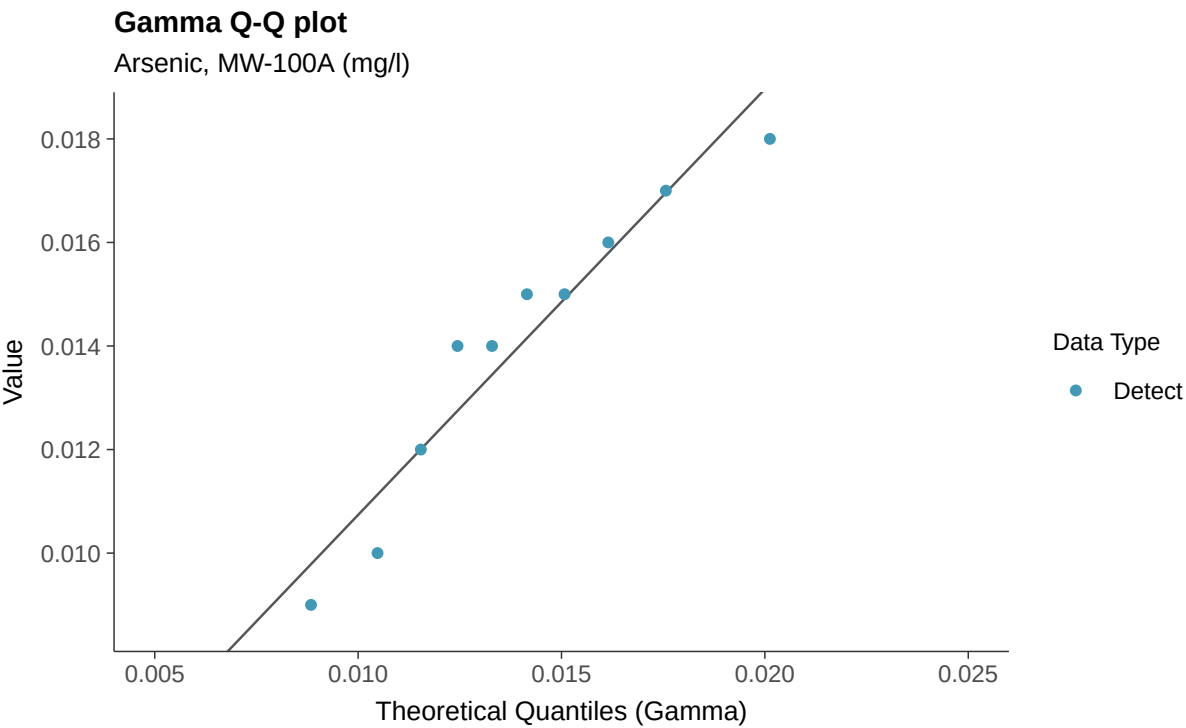
Appendix IV: Arsenic, MW-100A

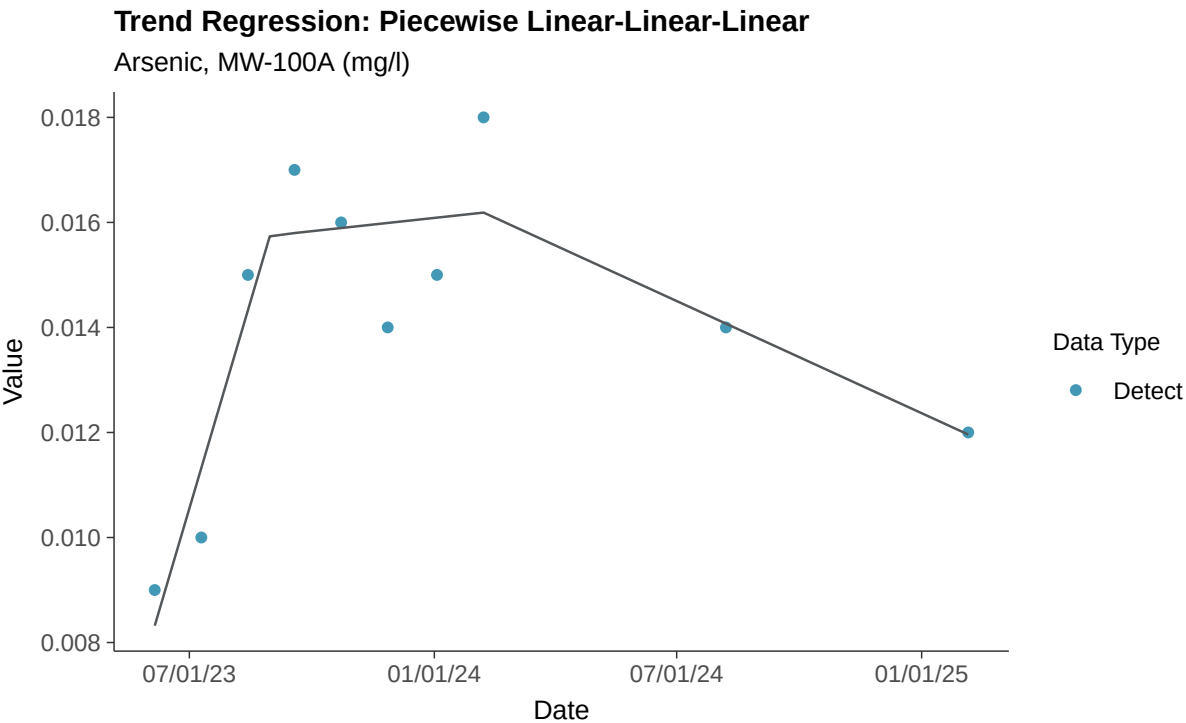
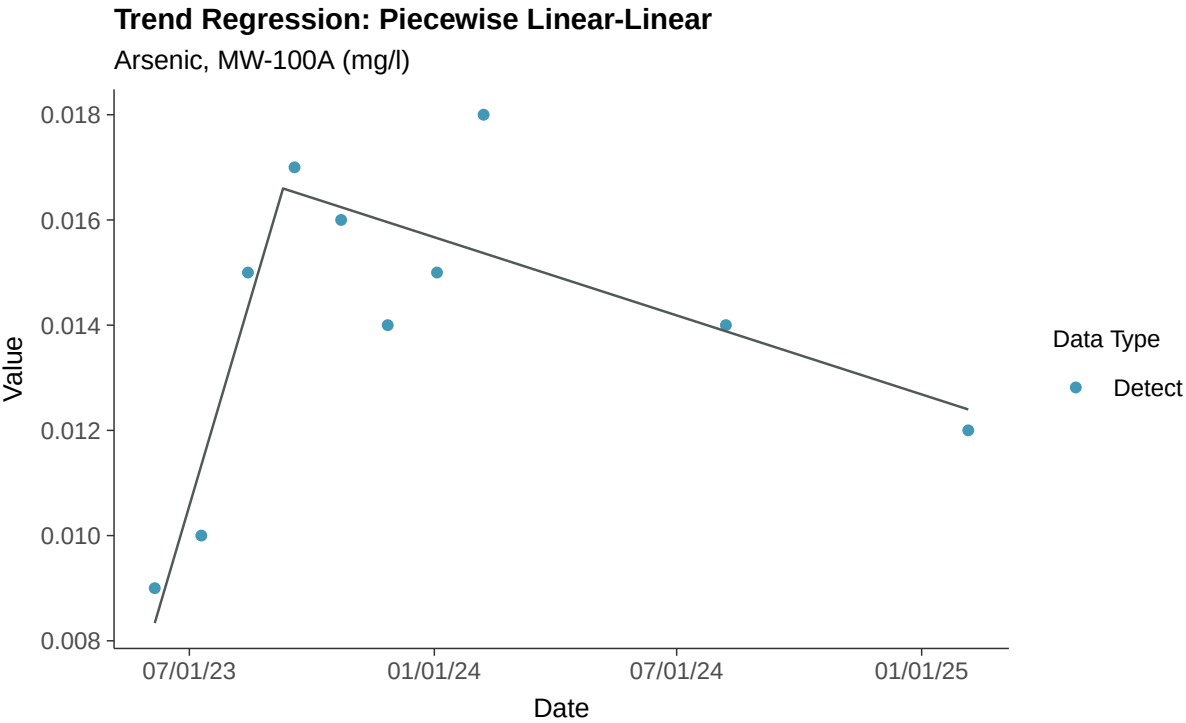
ID: 30_3_102







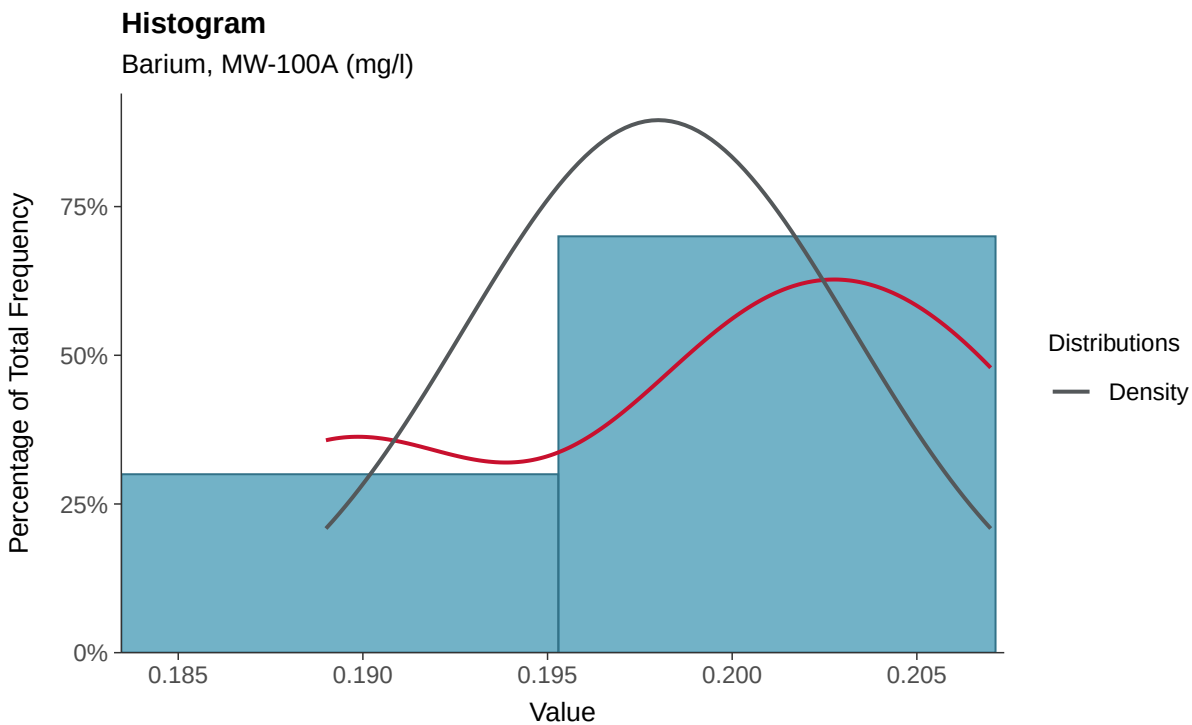
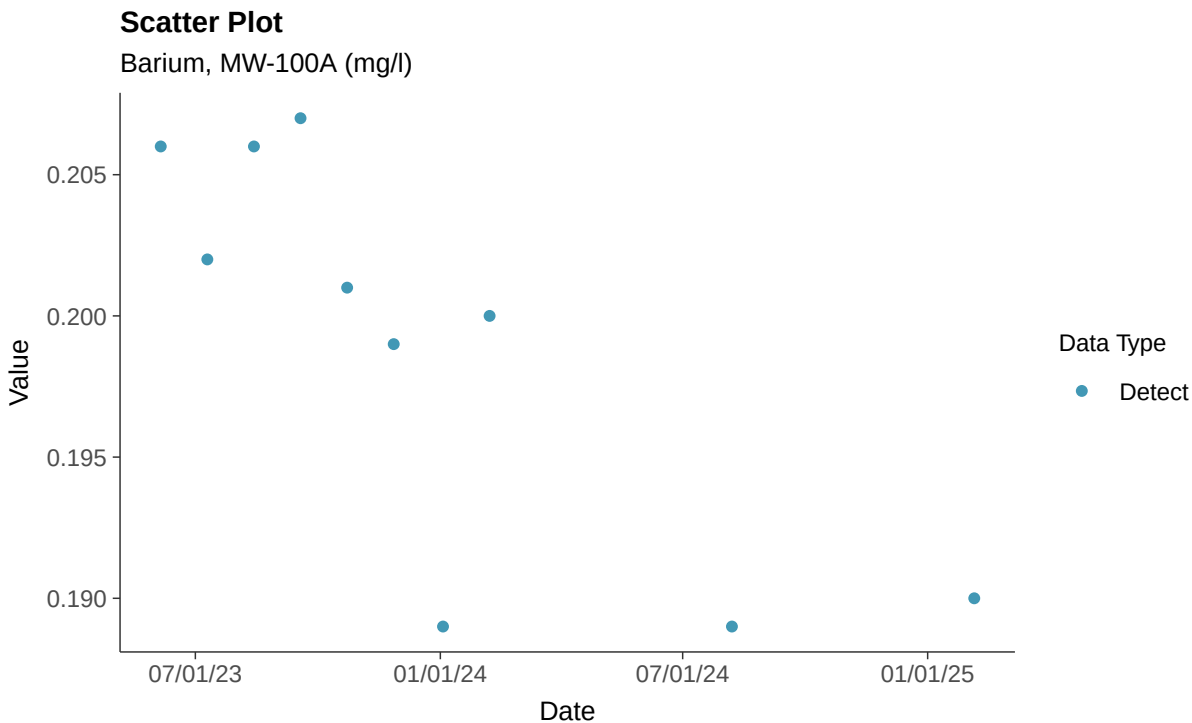


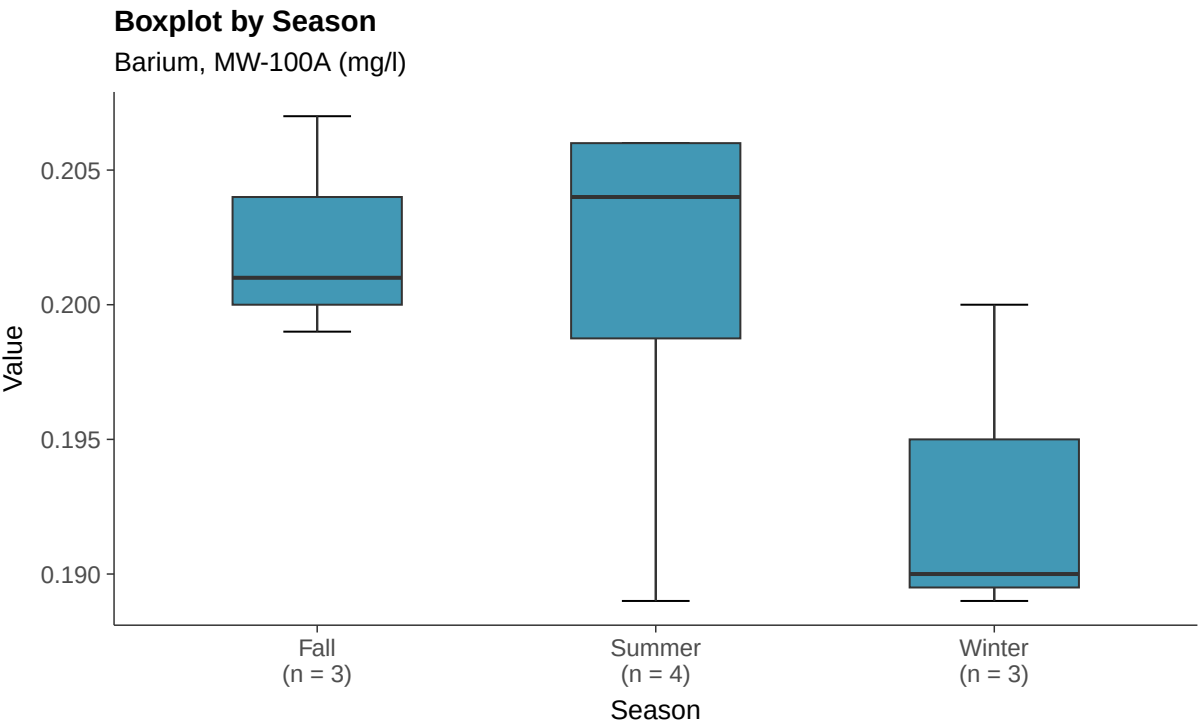
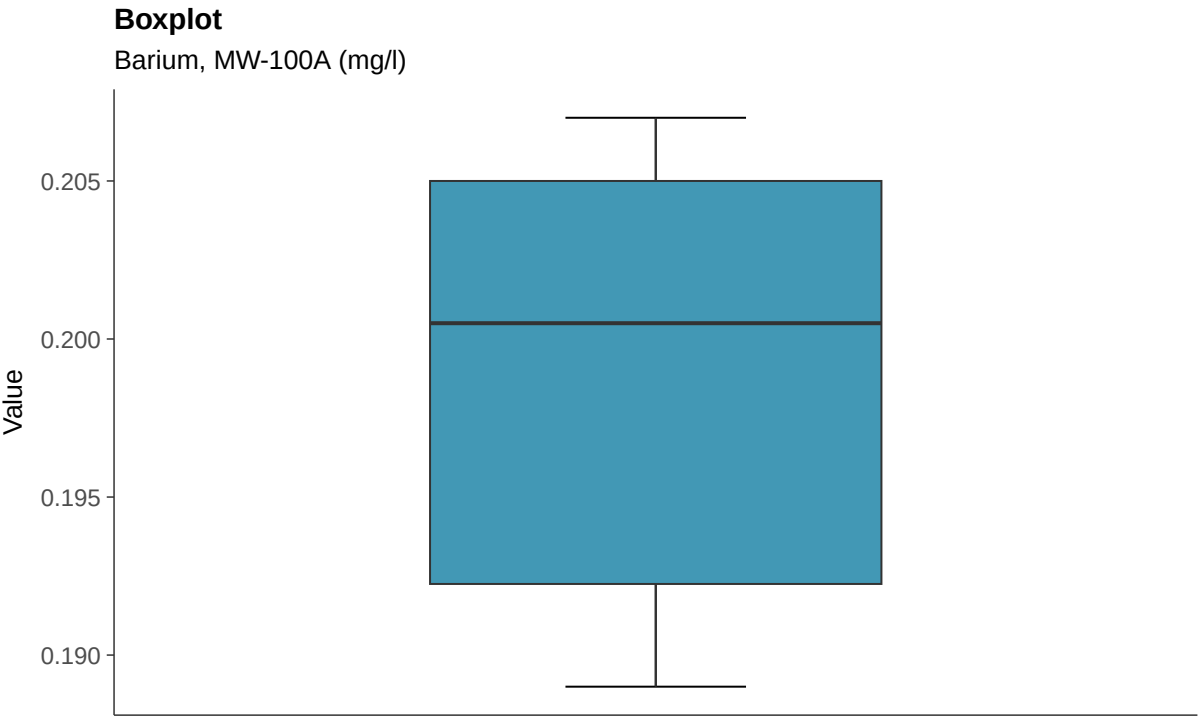


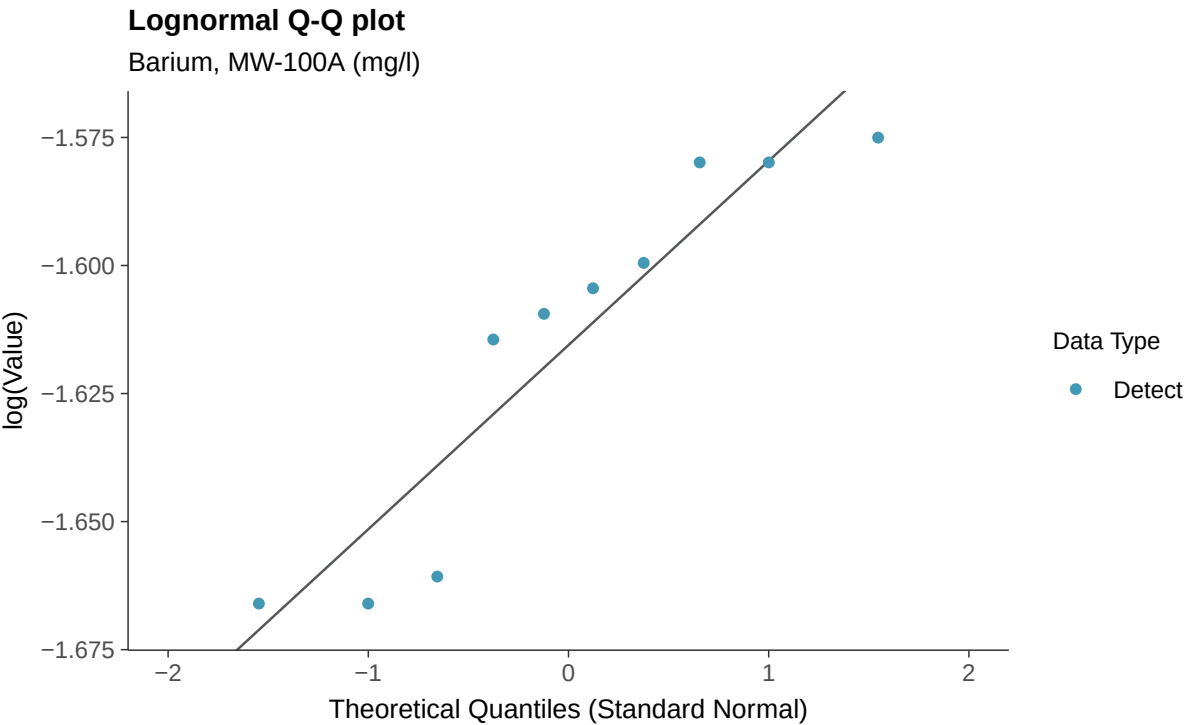
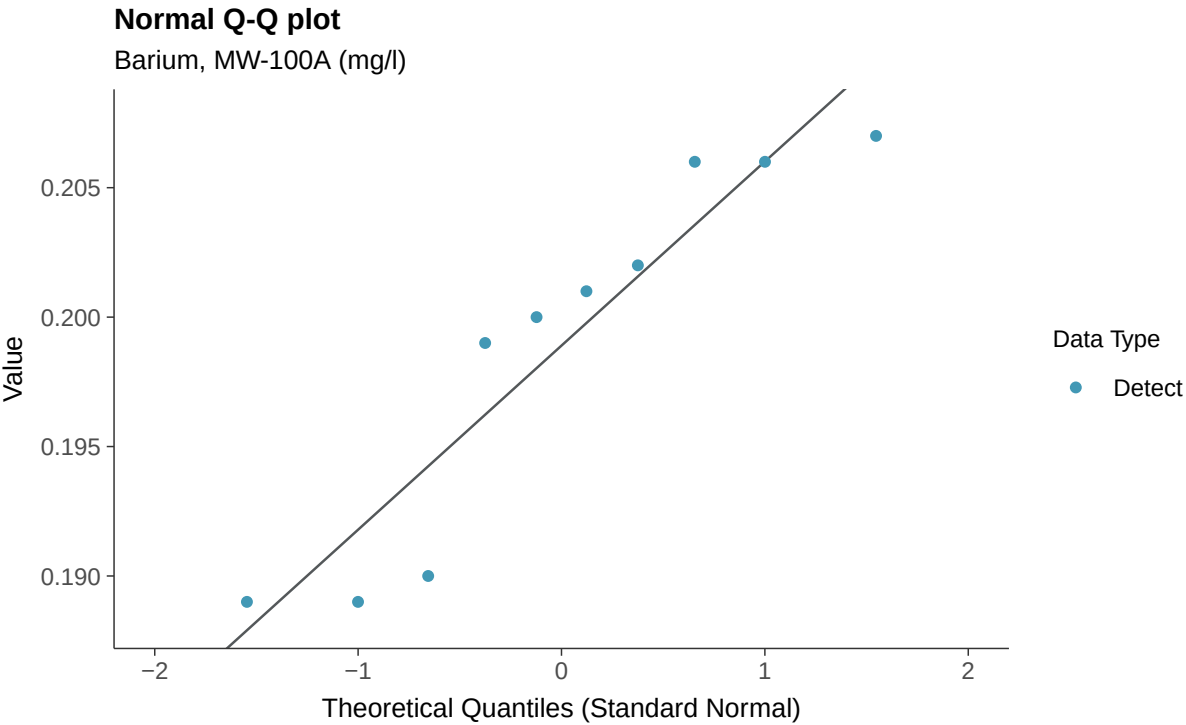


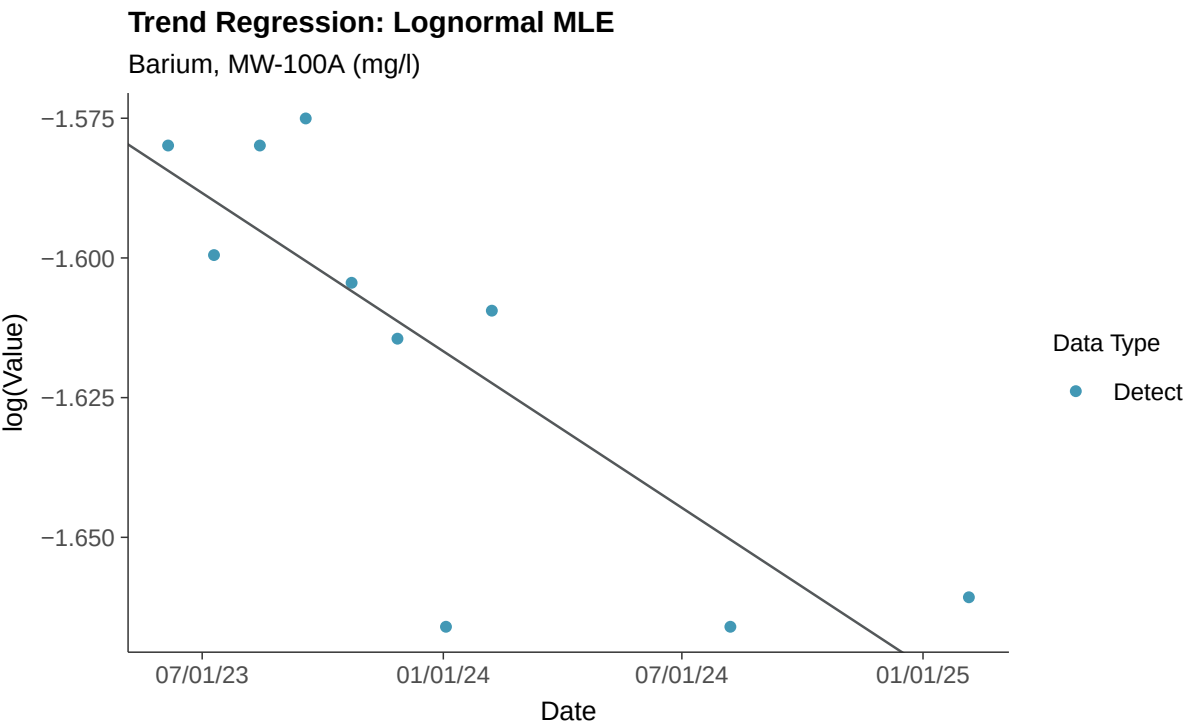
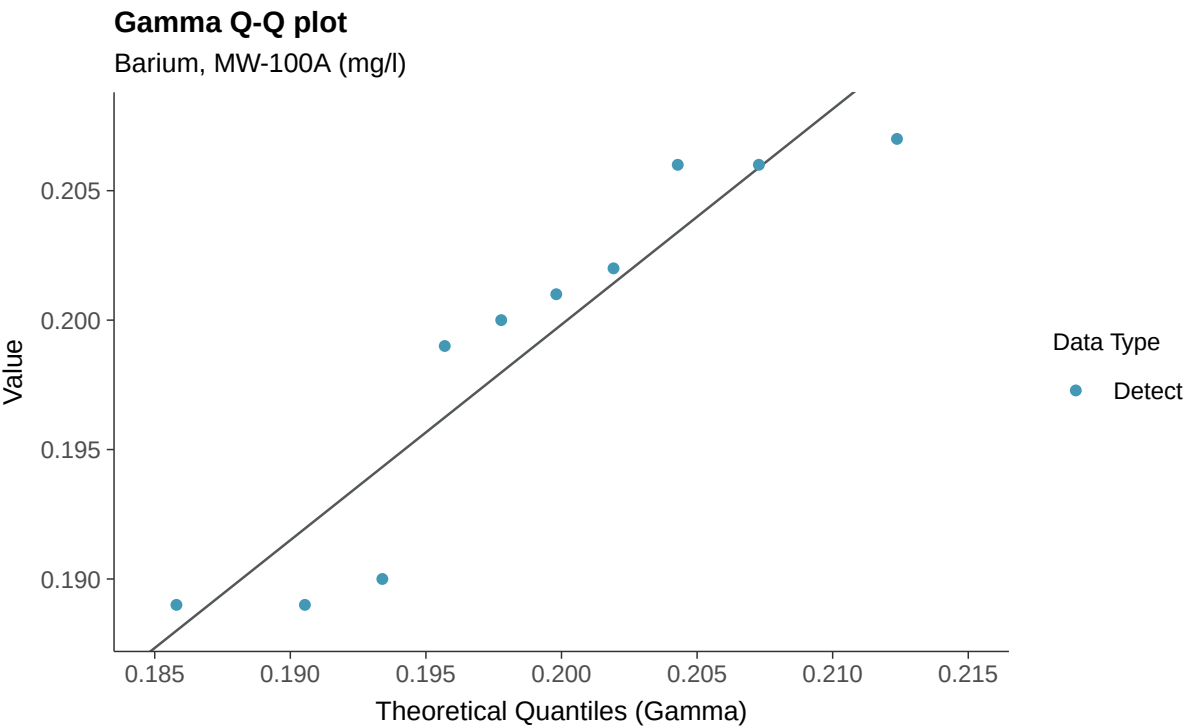
Appendix IV: Barium, MW-100A

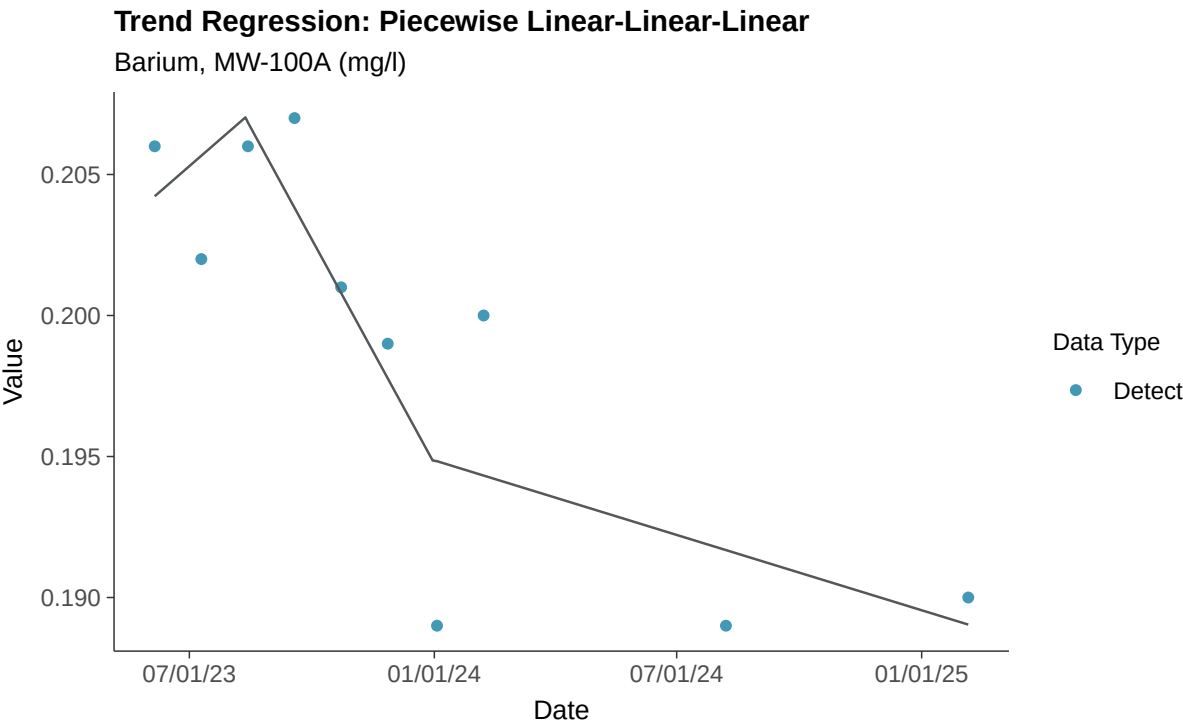
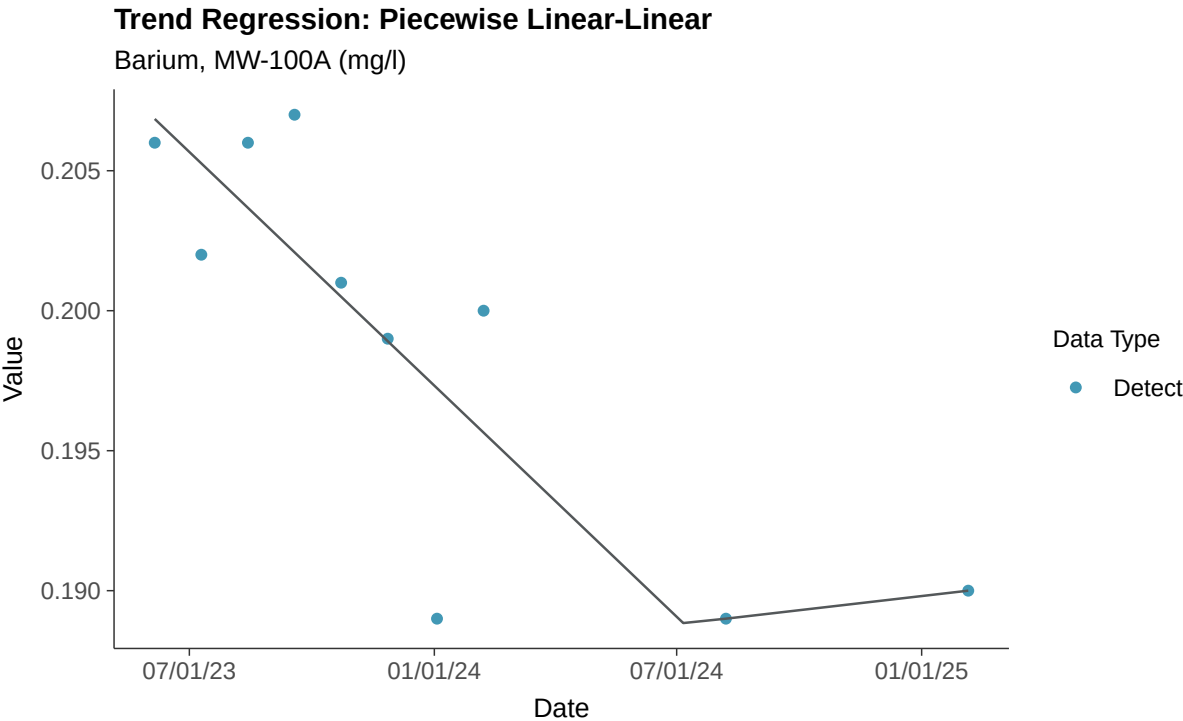
ID: 30_3_103







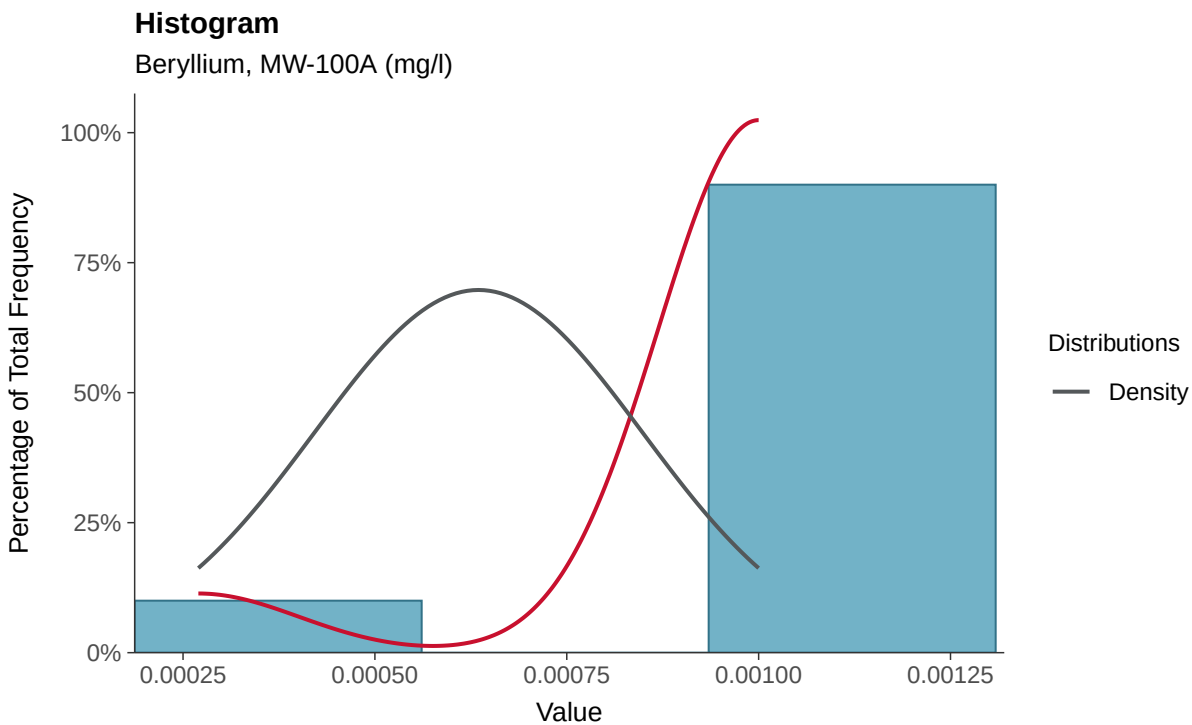
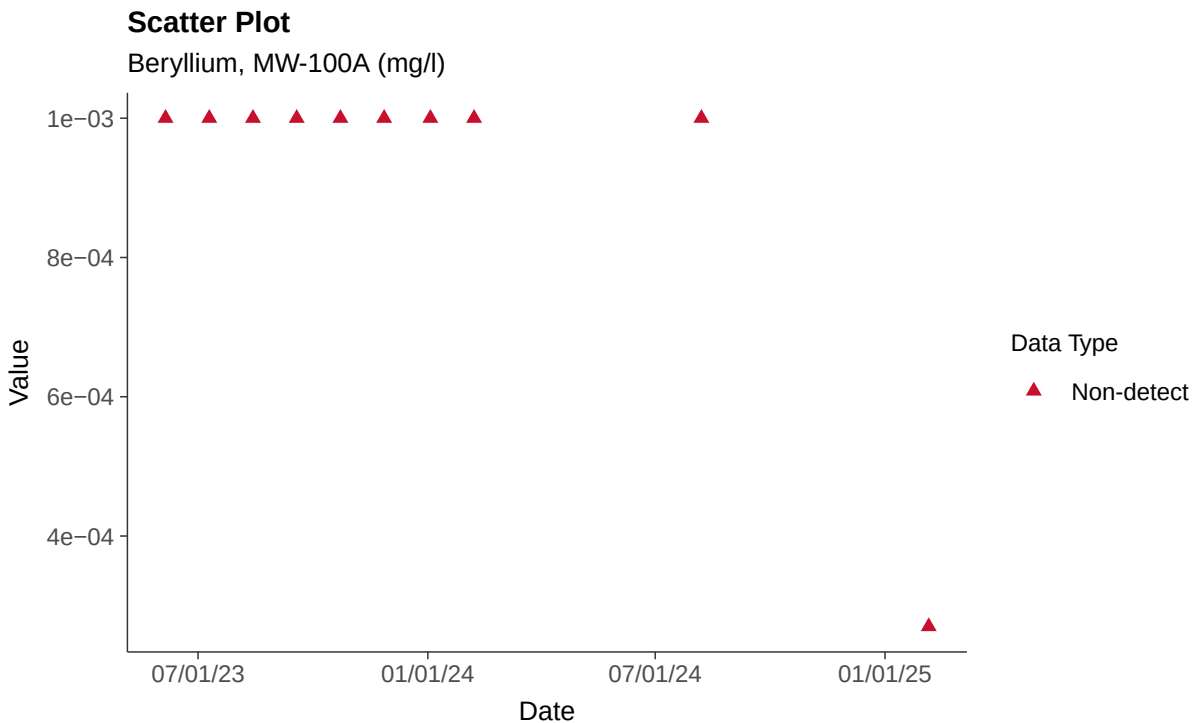


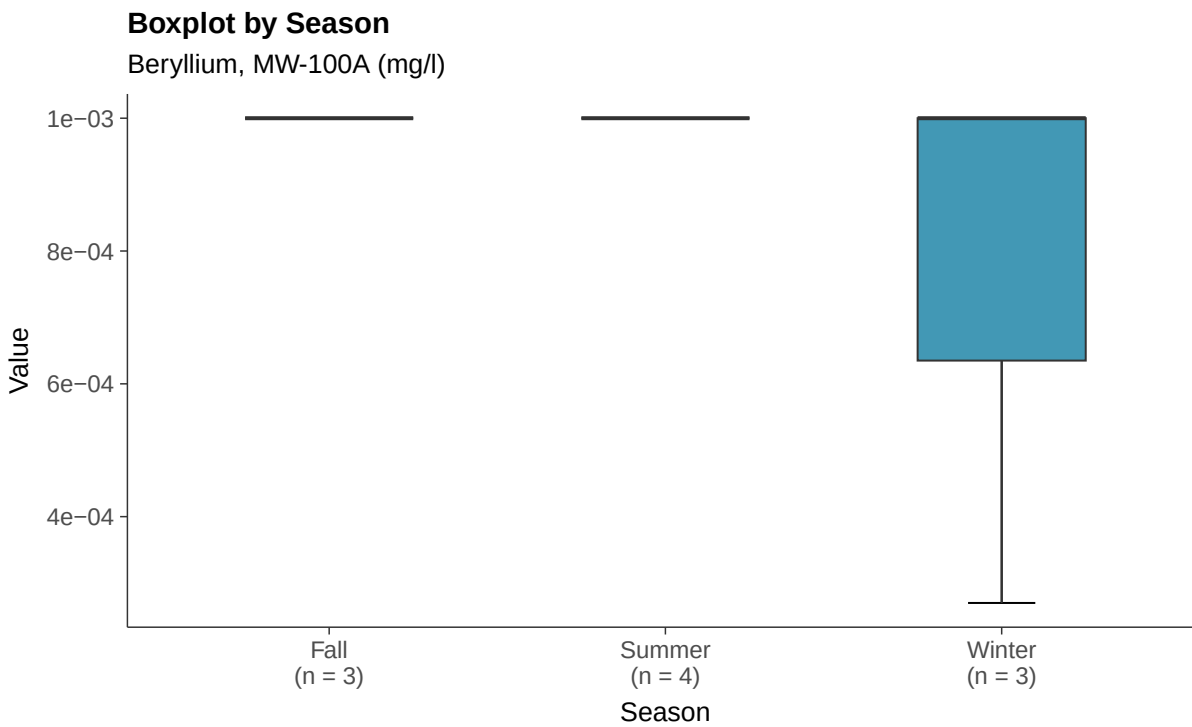
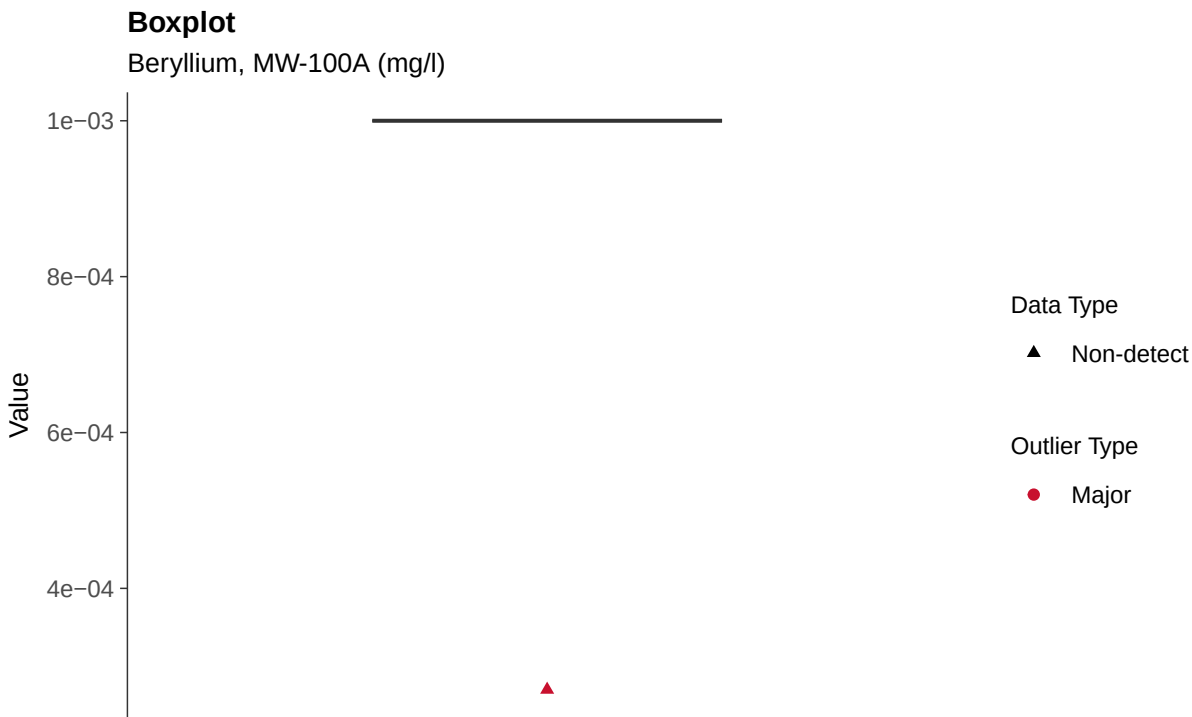




Appendix IV: Beryllium, MW-100A

ID: 30_3_104

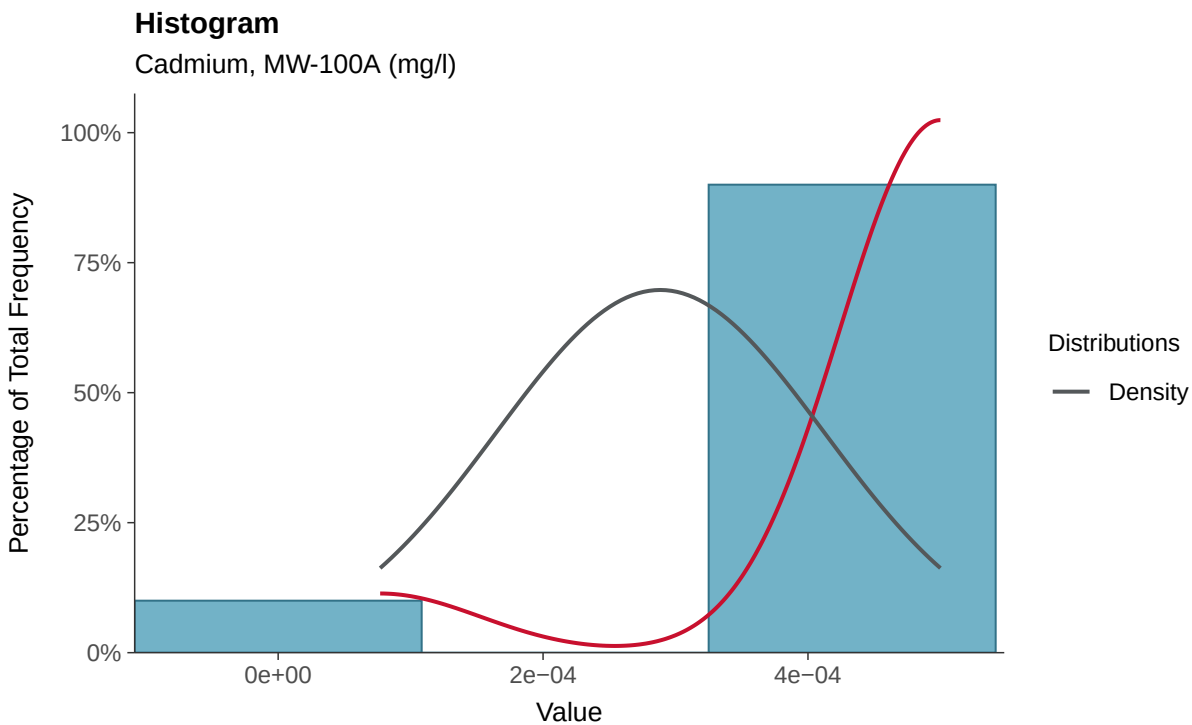
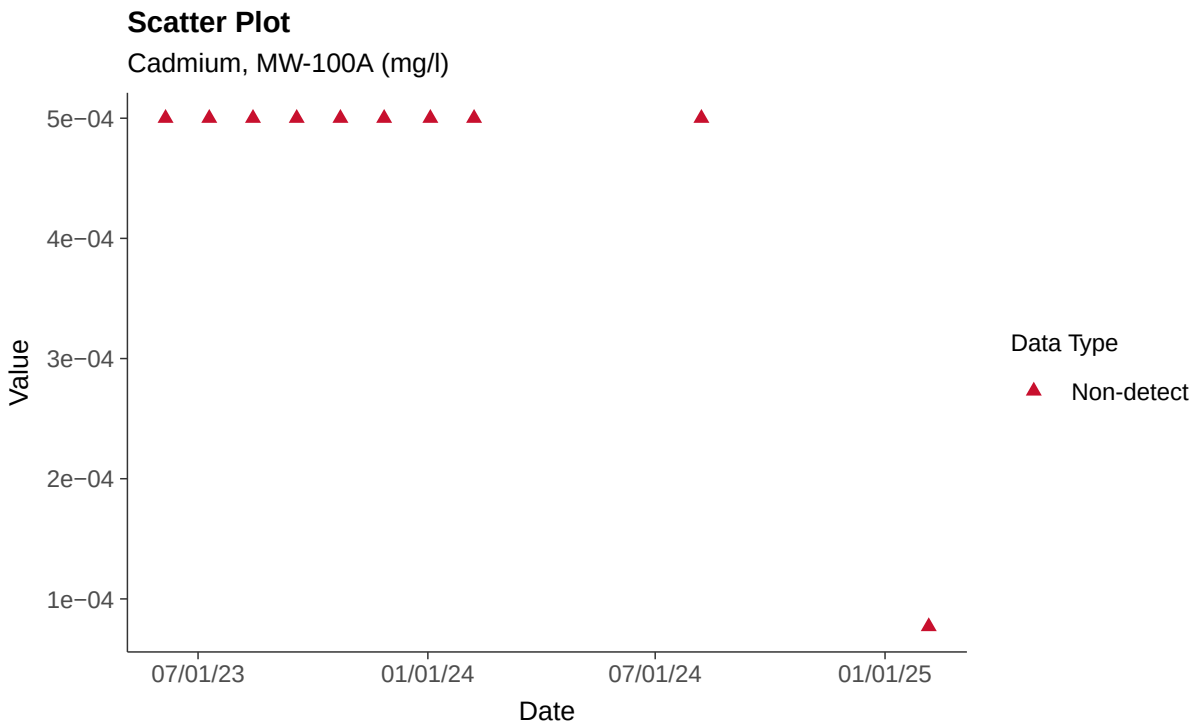


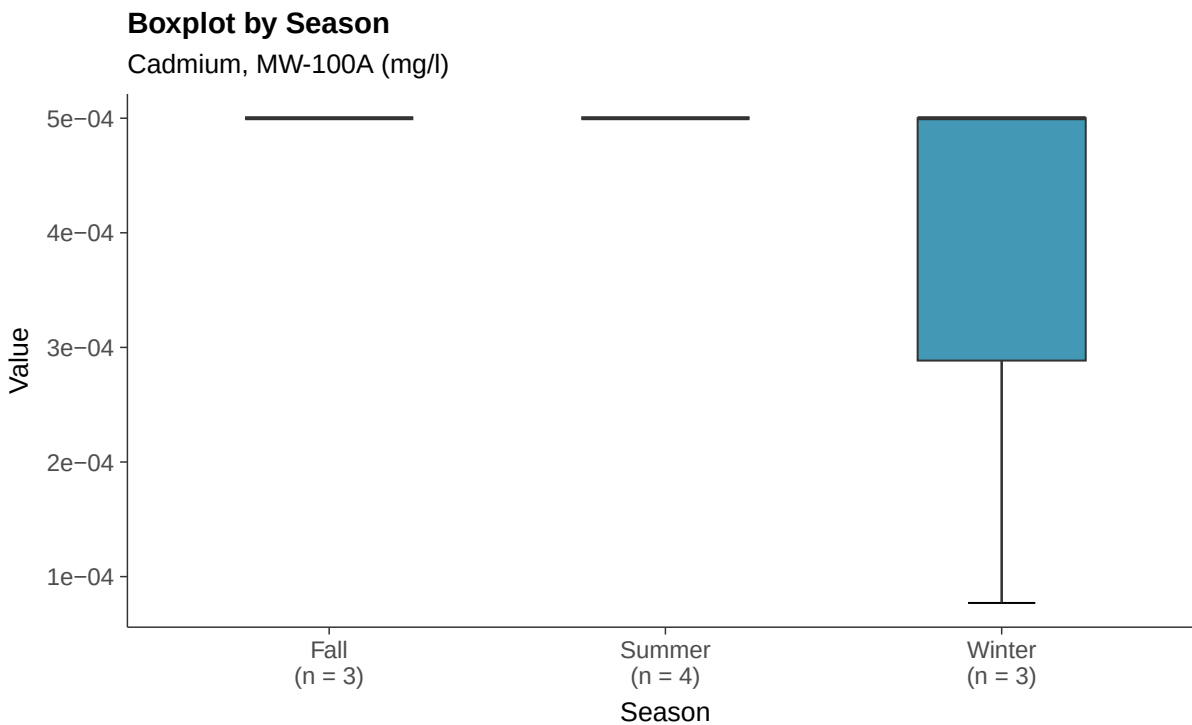
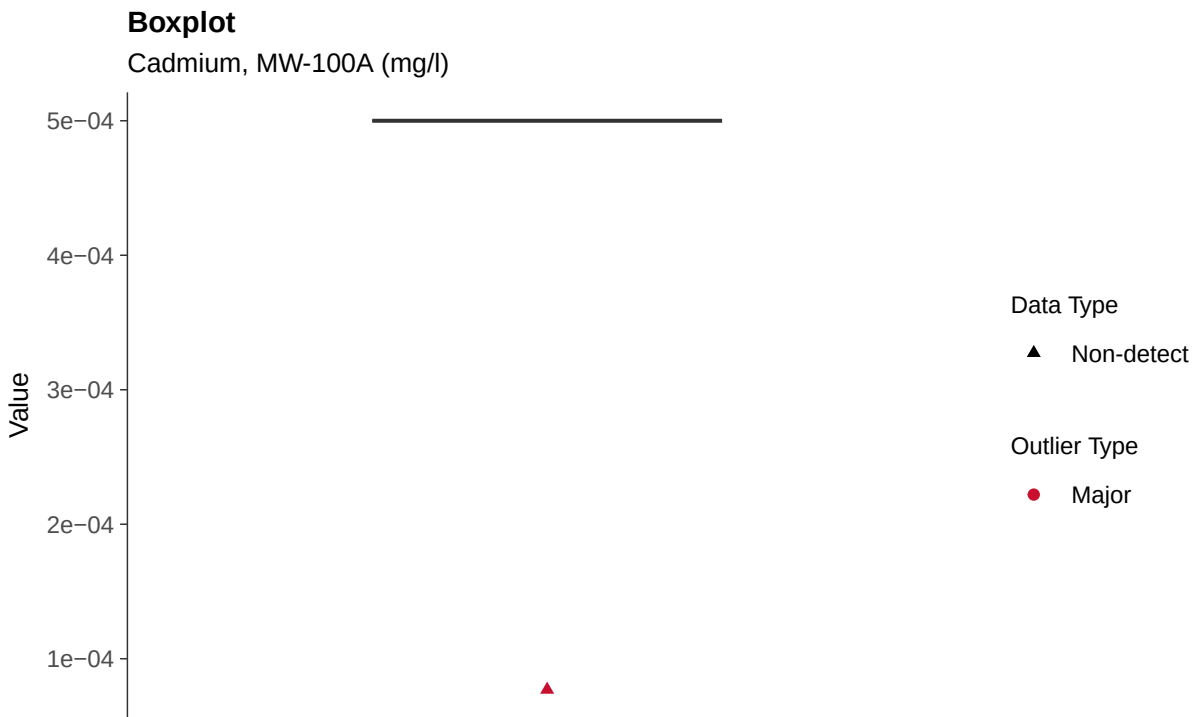




Appendix IV: Cadmium, MW-100A

ID: 30_3_106

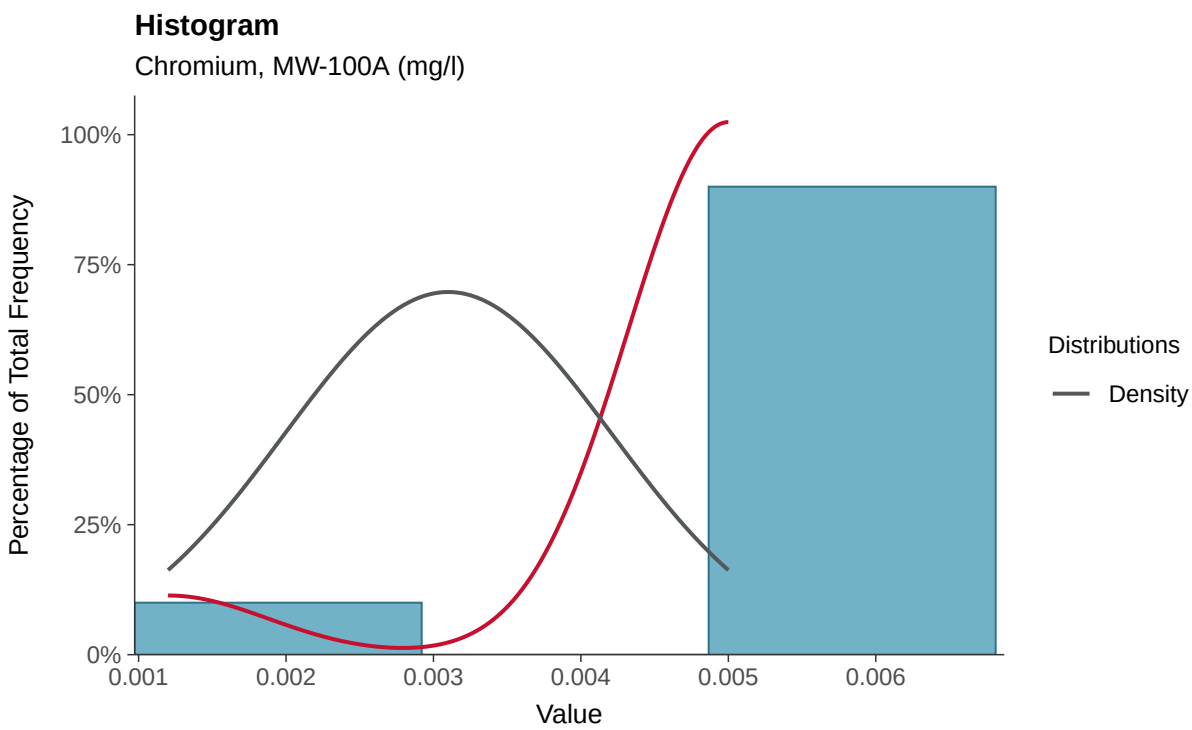
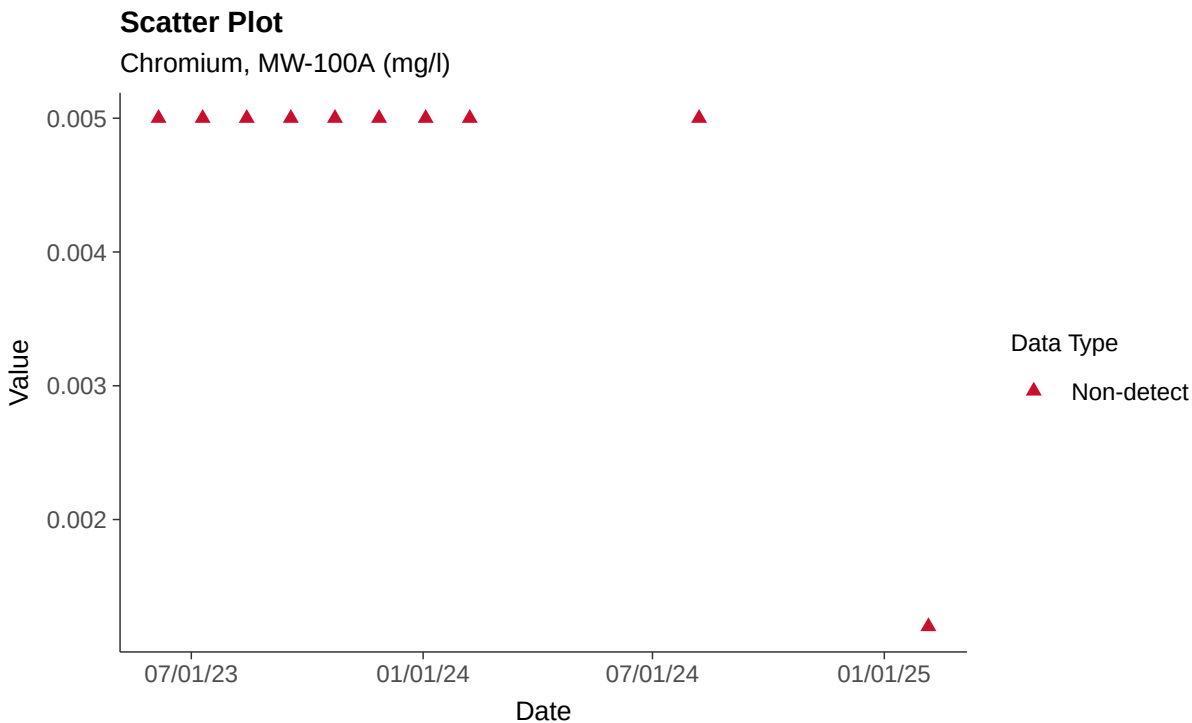


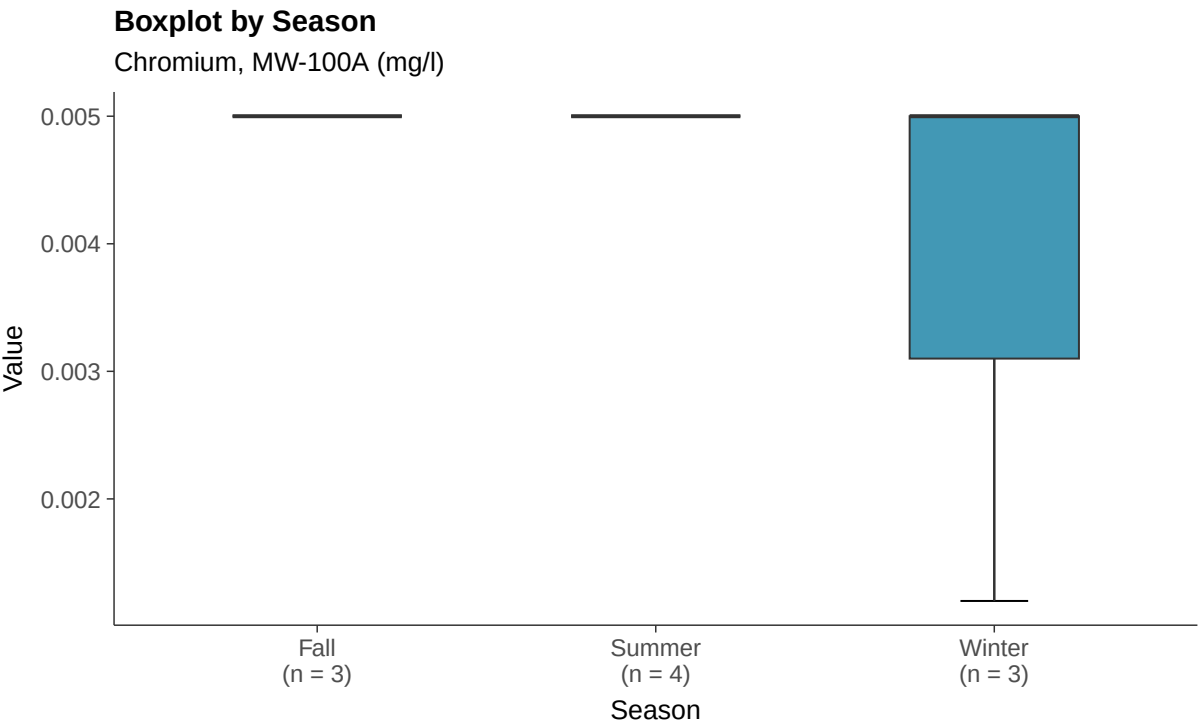
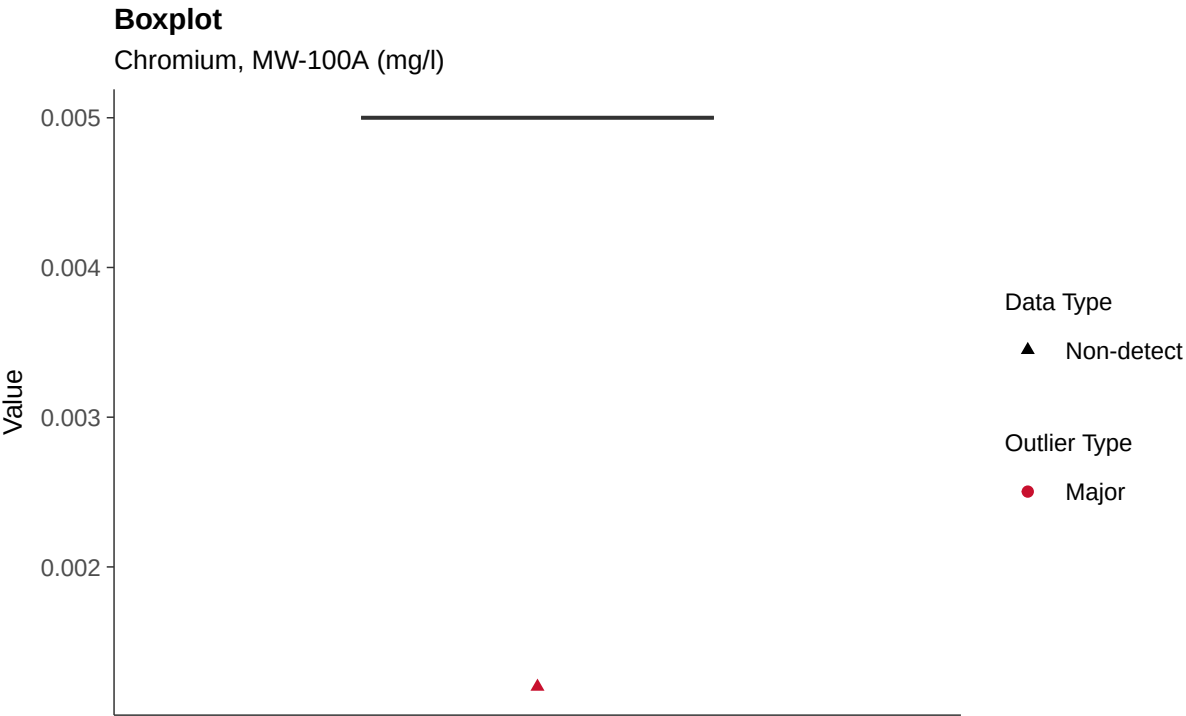




Appendix IV: Chromium, MW-100A

ID: 30_3_109

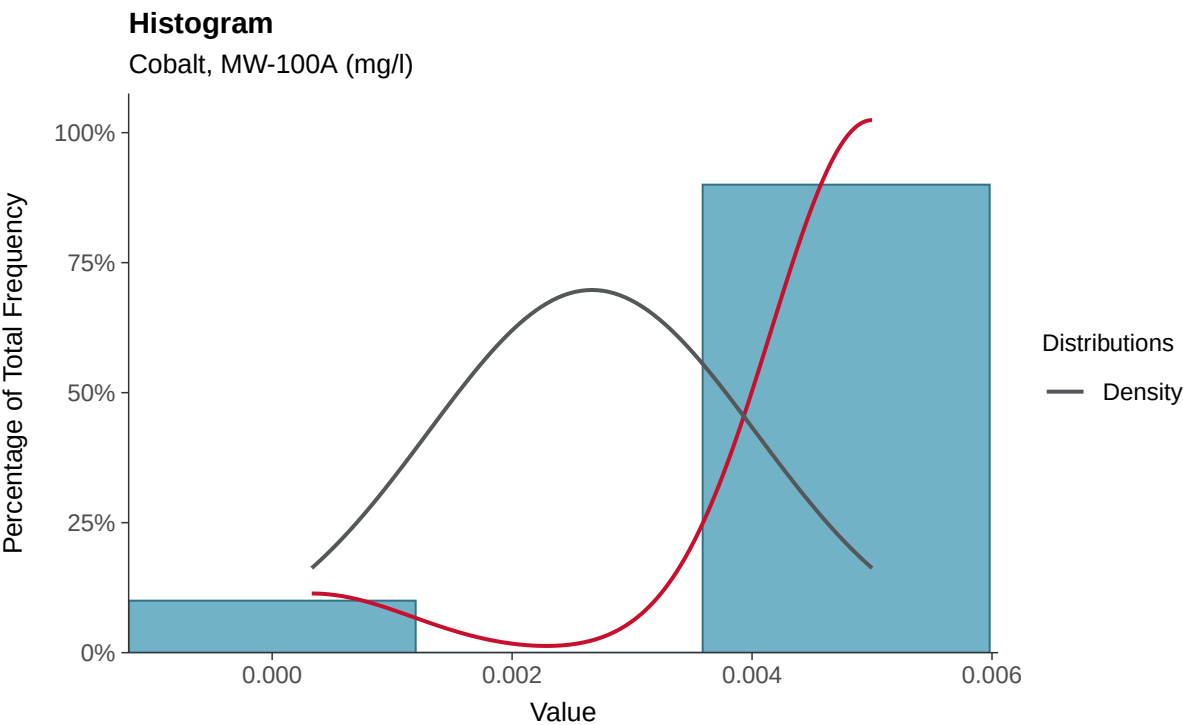
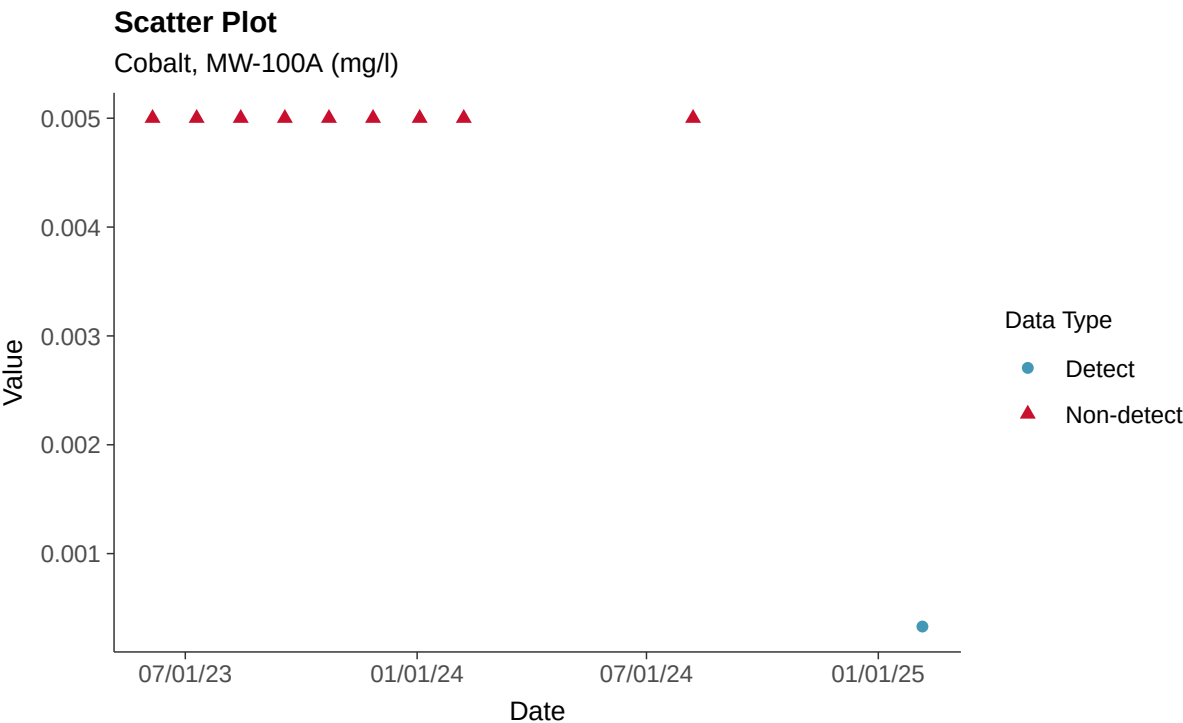


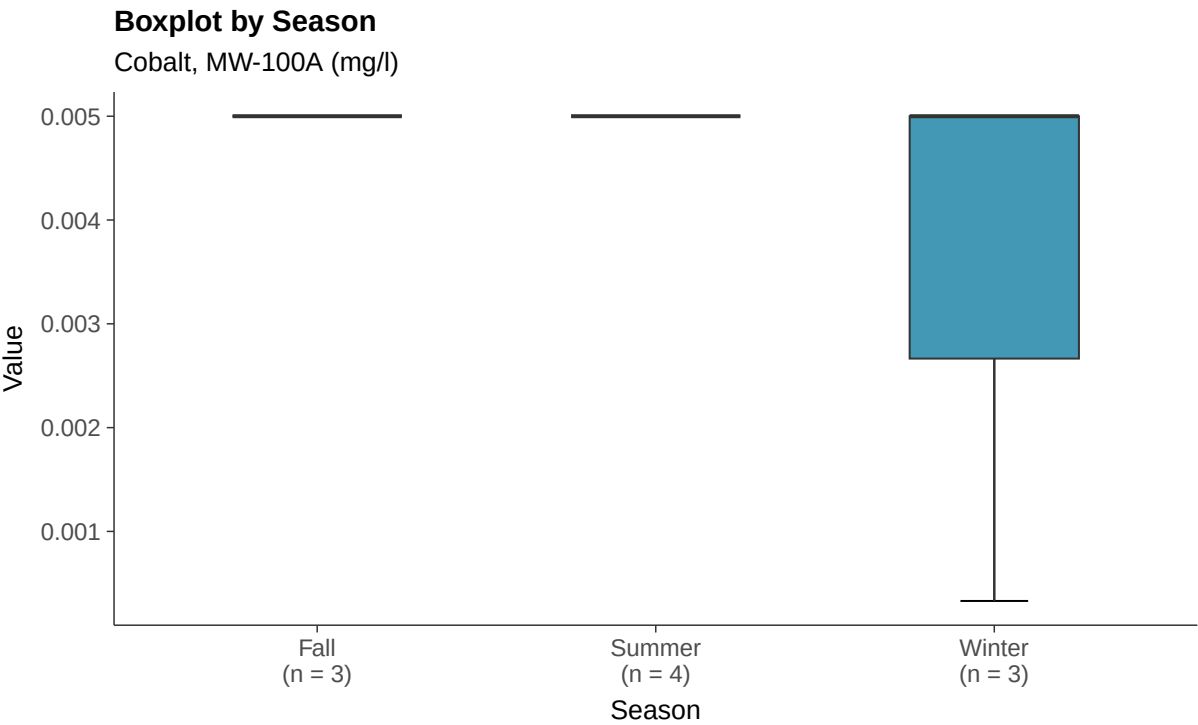
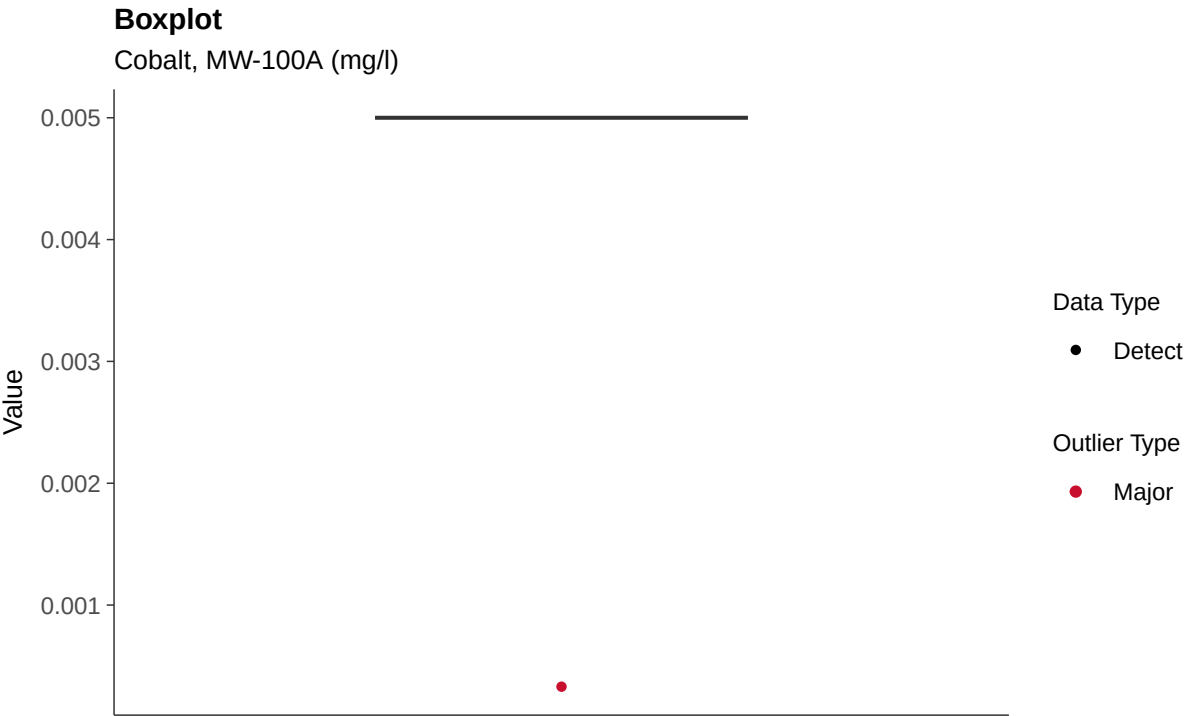




Appendix IV: Cobalt, MW-100A

ID: 30_3_110

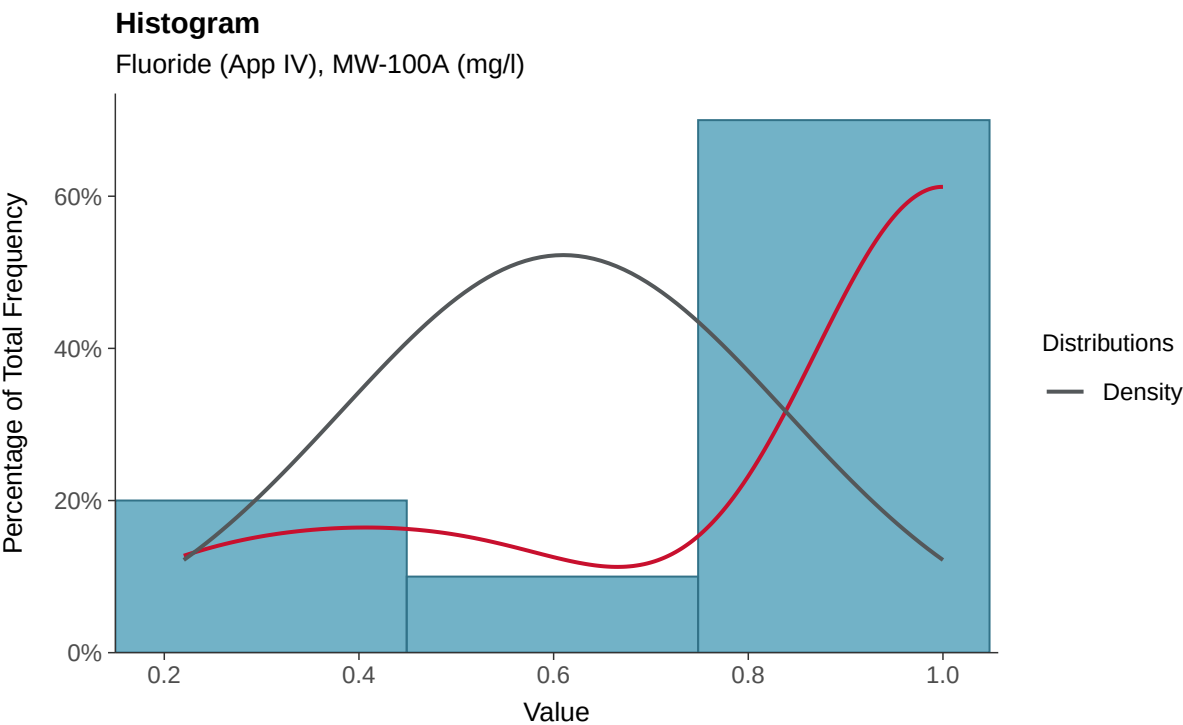
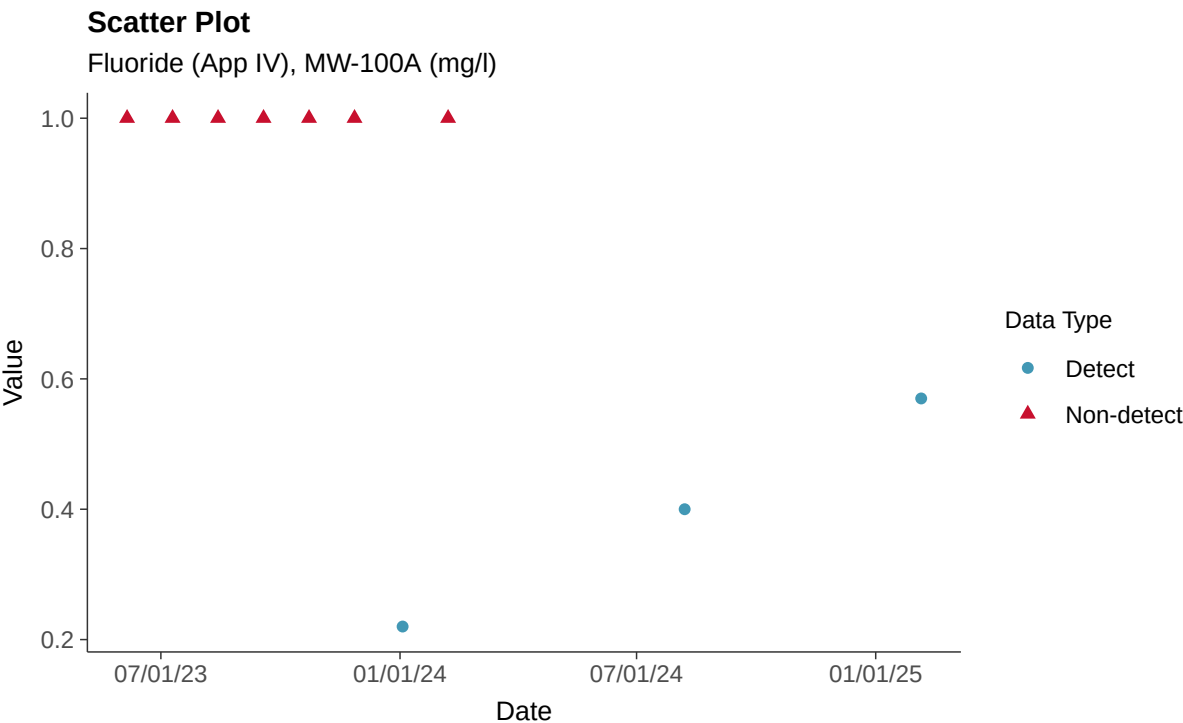






Appendix IV: Fluoride (App IV), MW-100A

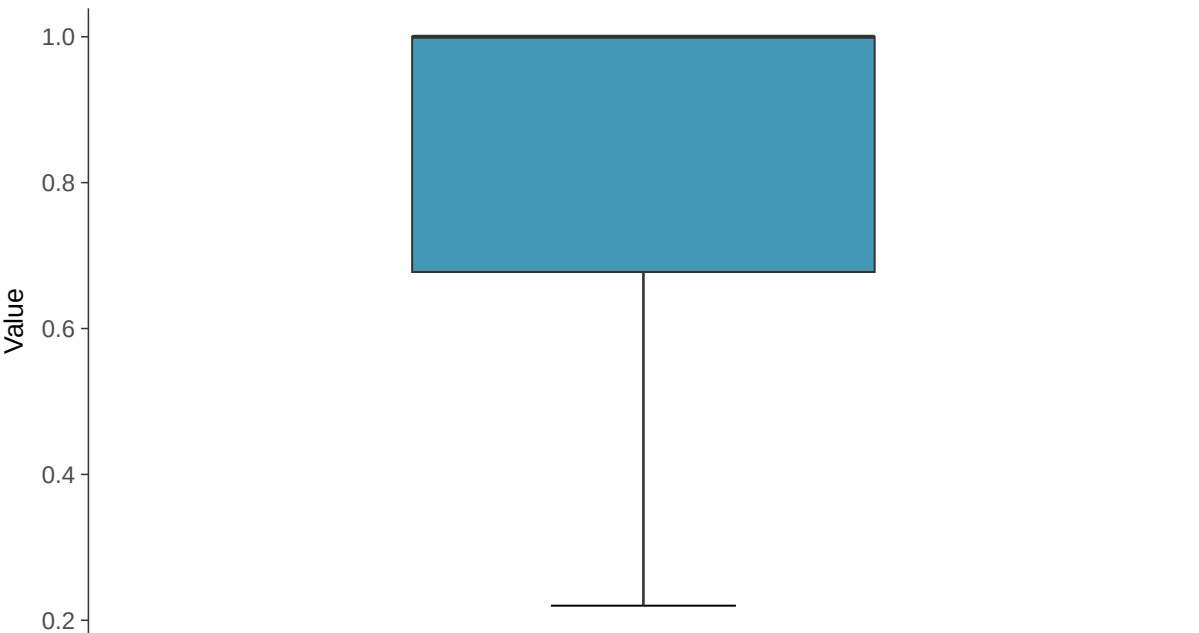
ID: 30_3_113





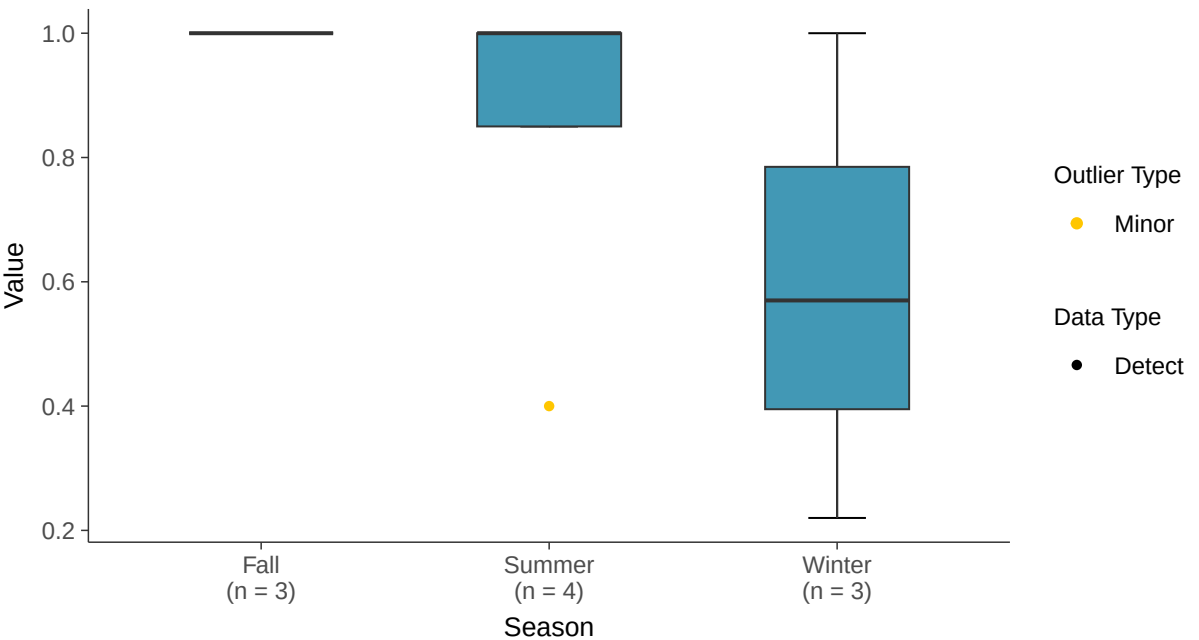
Boxplot

Fluoride (App IV), MW-100A (mg/l)



Boxplot by Season

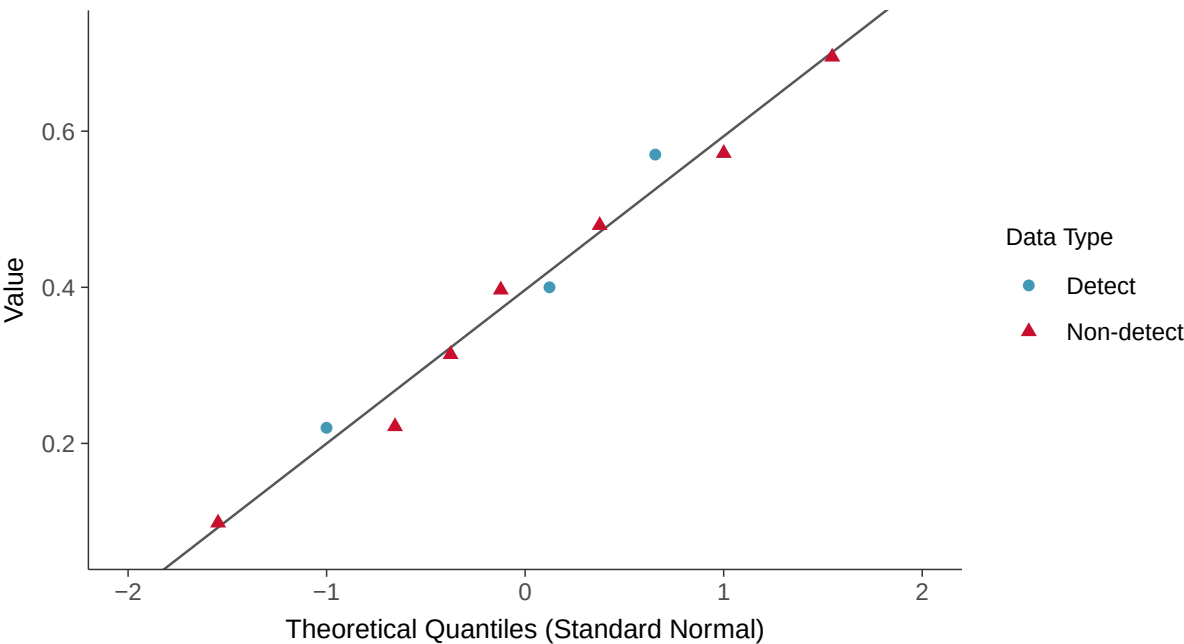
Fluoride (App IV), MW-100A (mg/l)





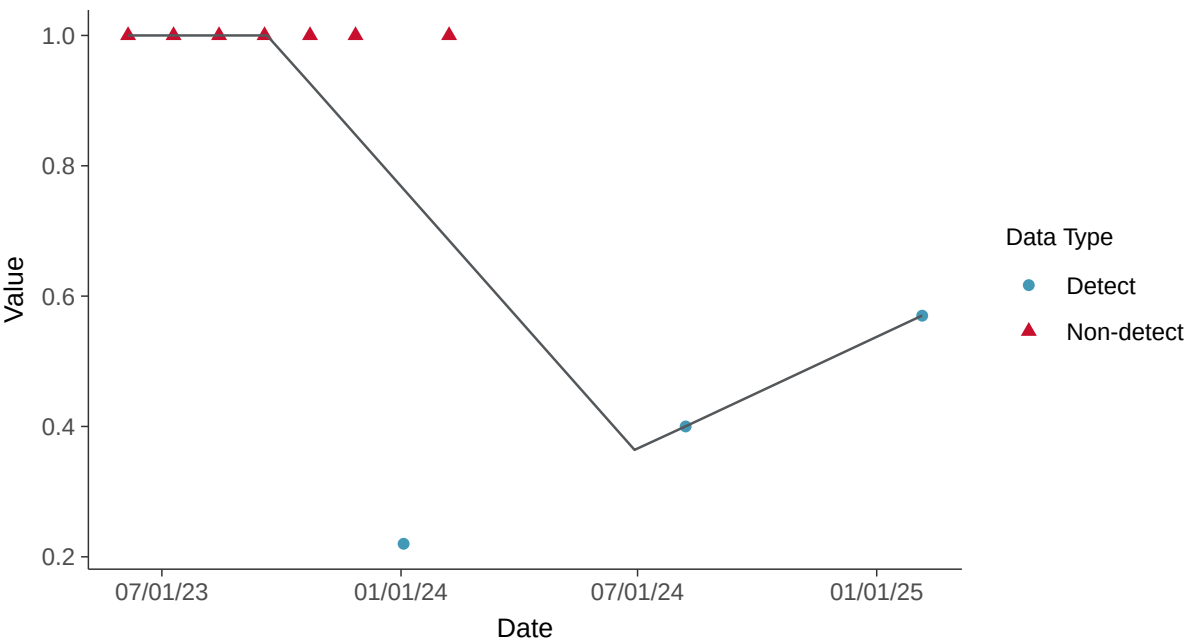
Normal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-100A (mg/l)



Trend Regression: Piecewise Linear-Linear-Linear

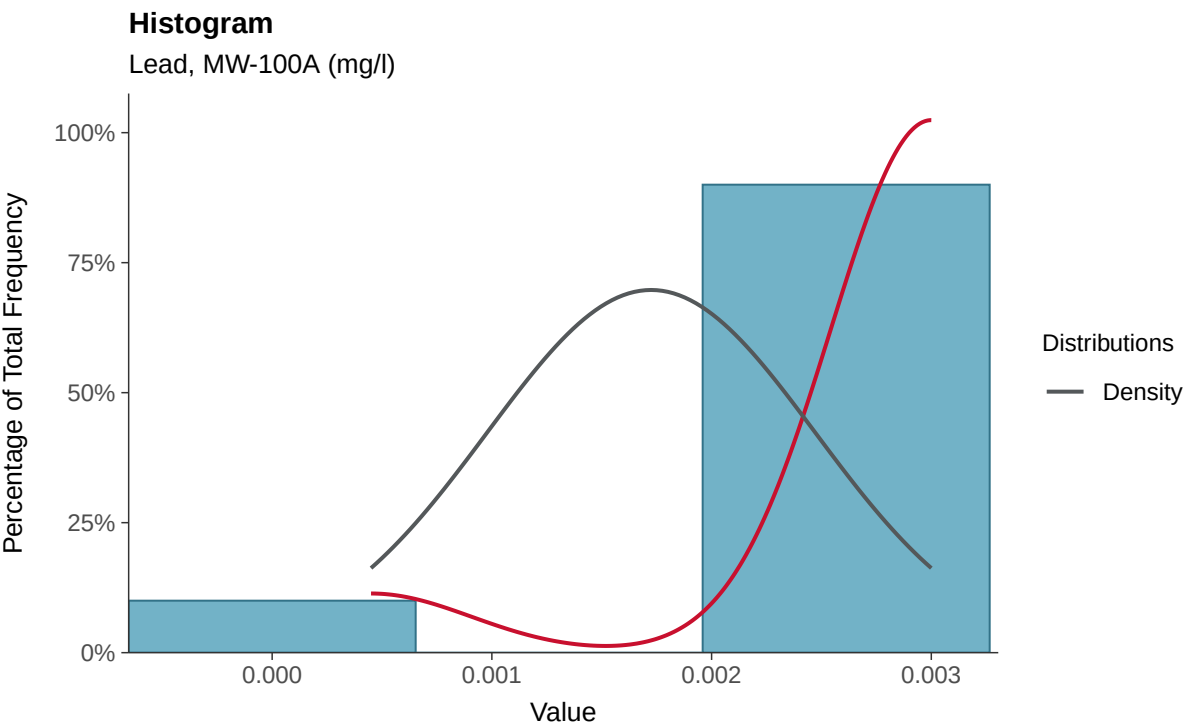
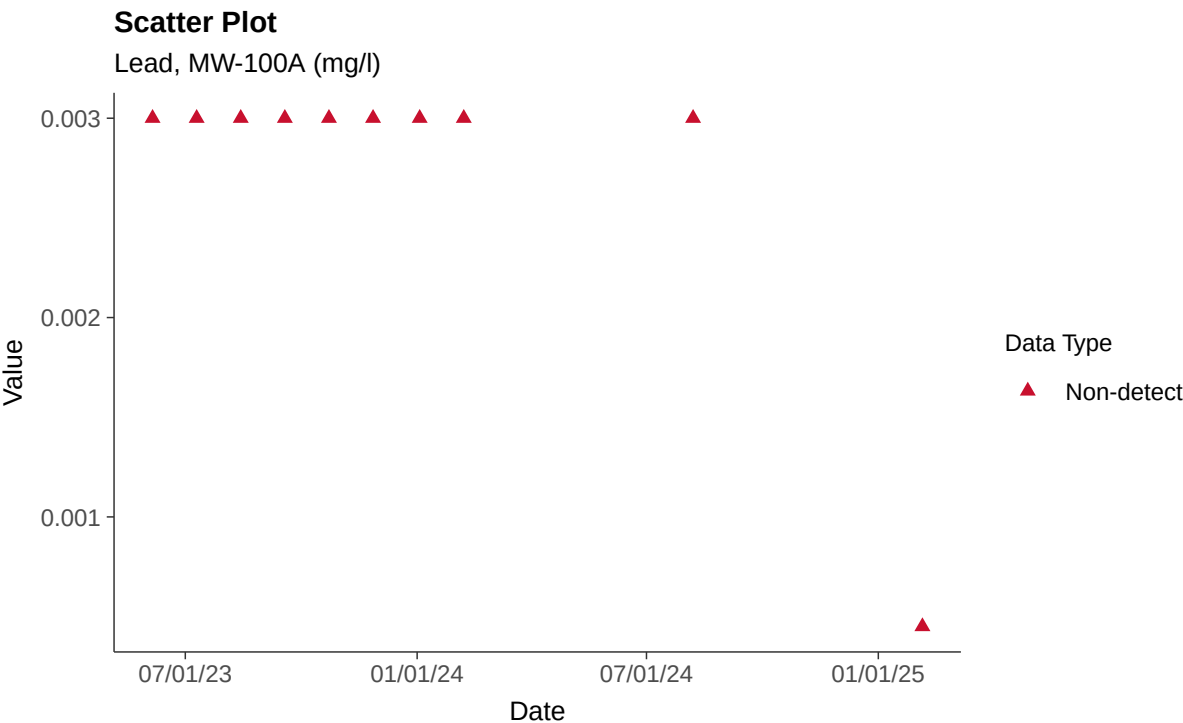
Fluoride (App IV), MW-100A (mg/l)

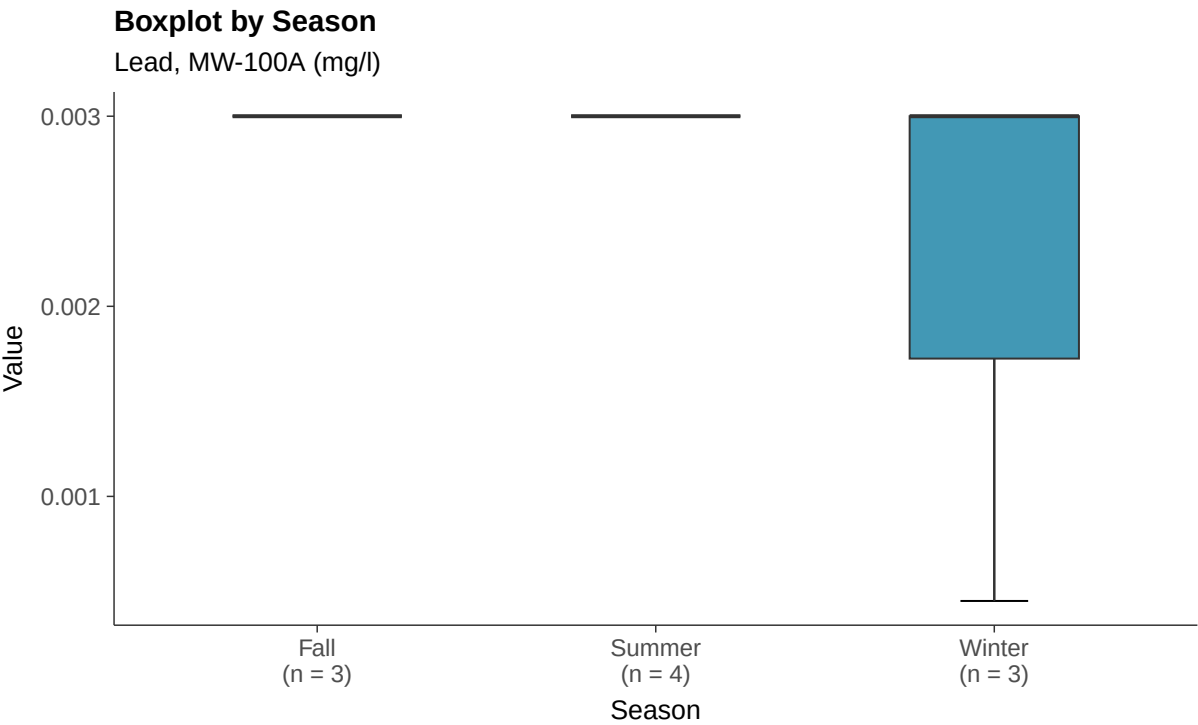
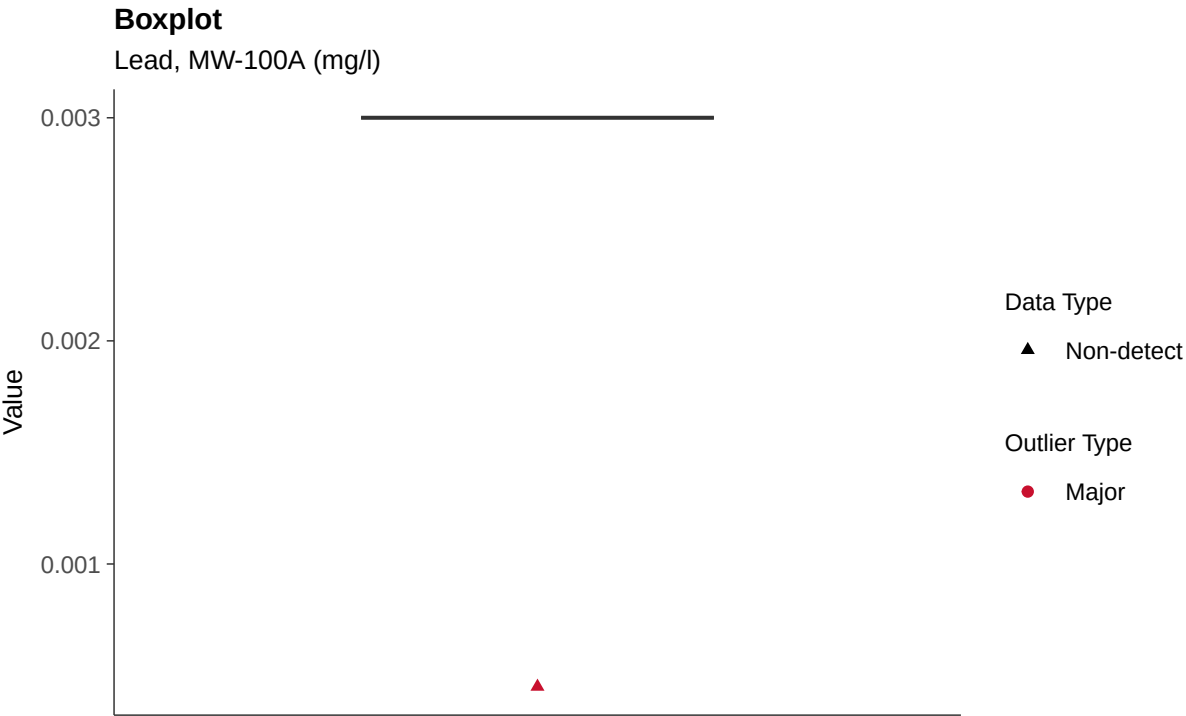




Appendix IV: Lead, MW-100A

ID: 30_3_115

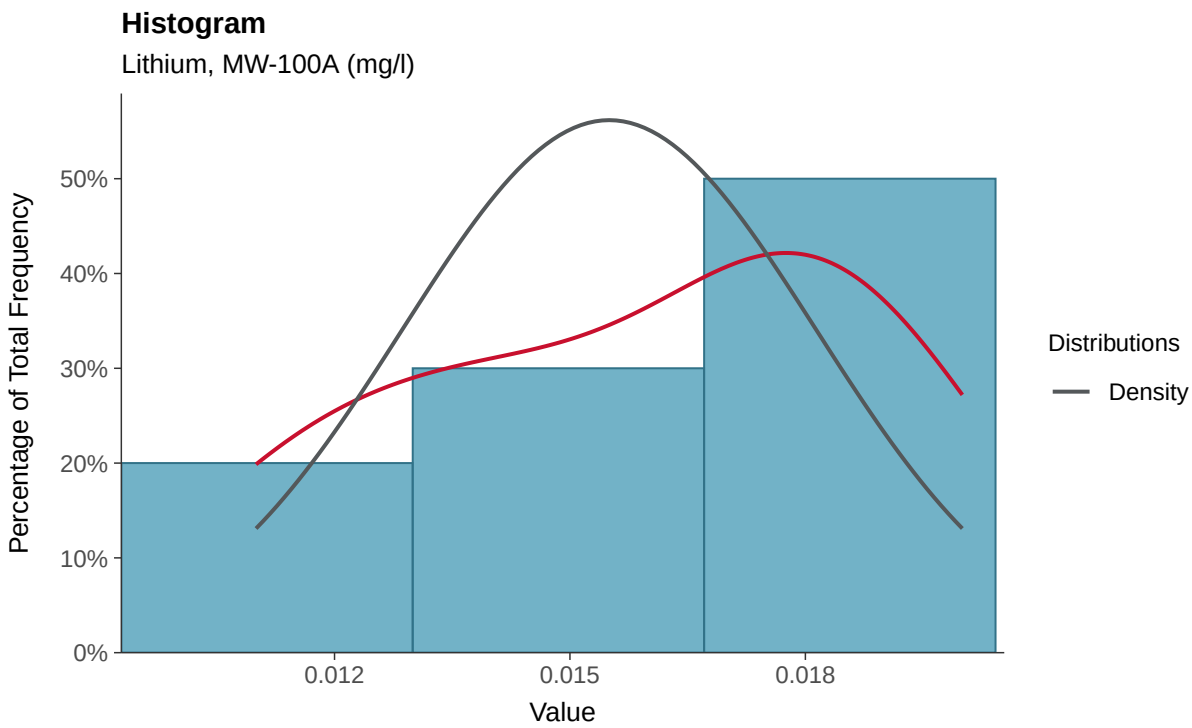
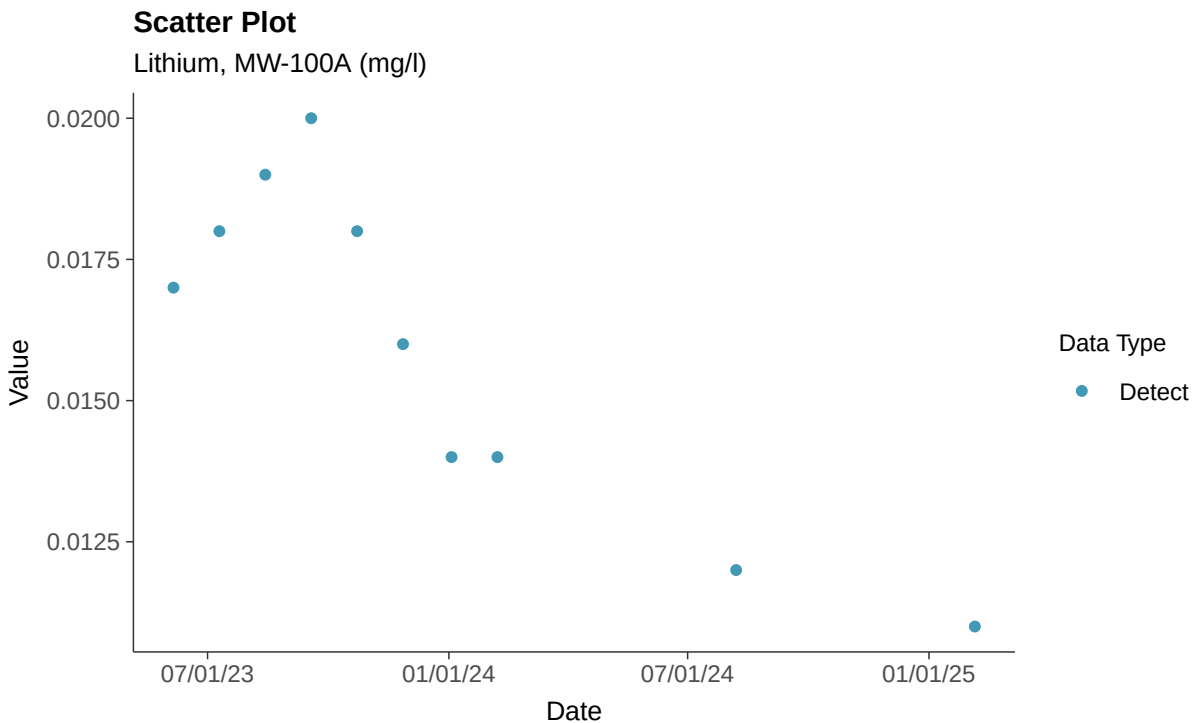


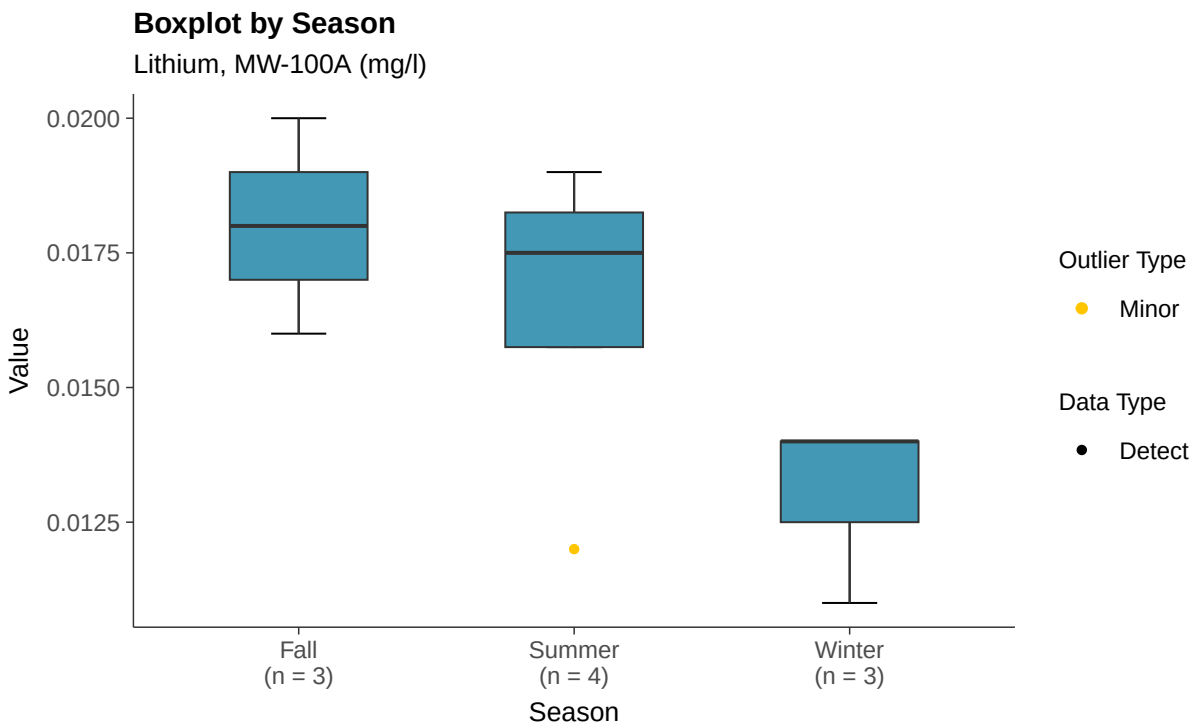
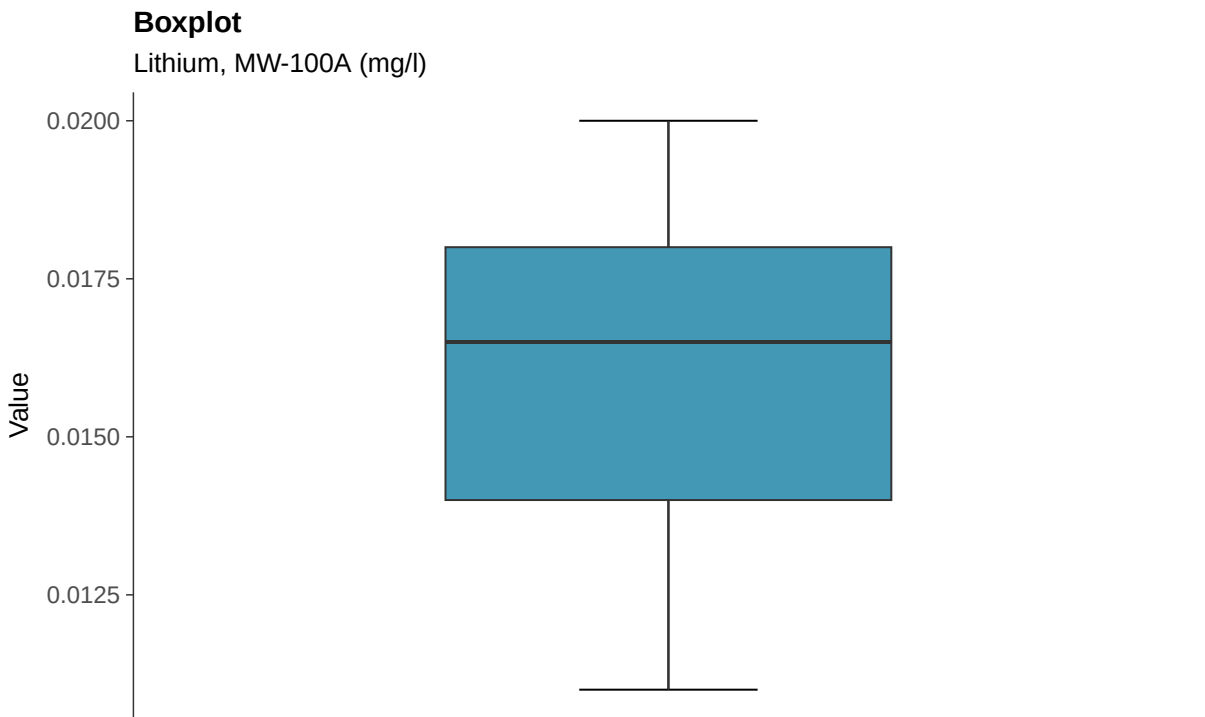


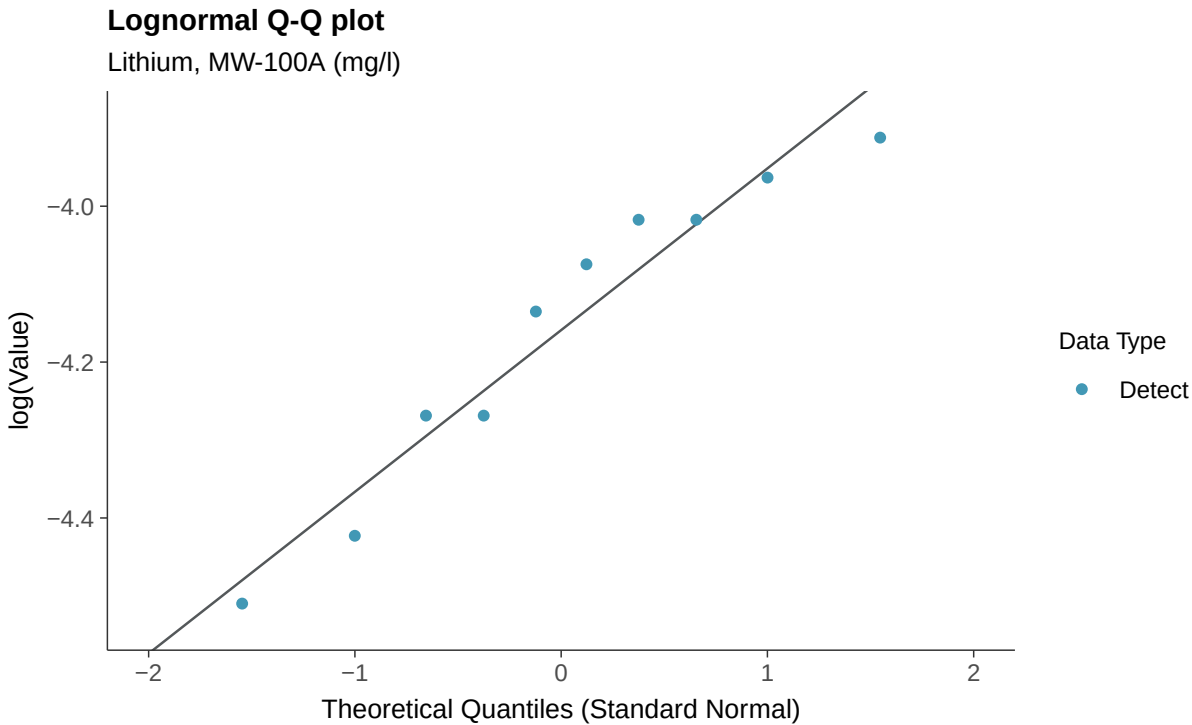
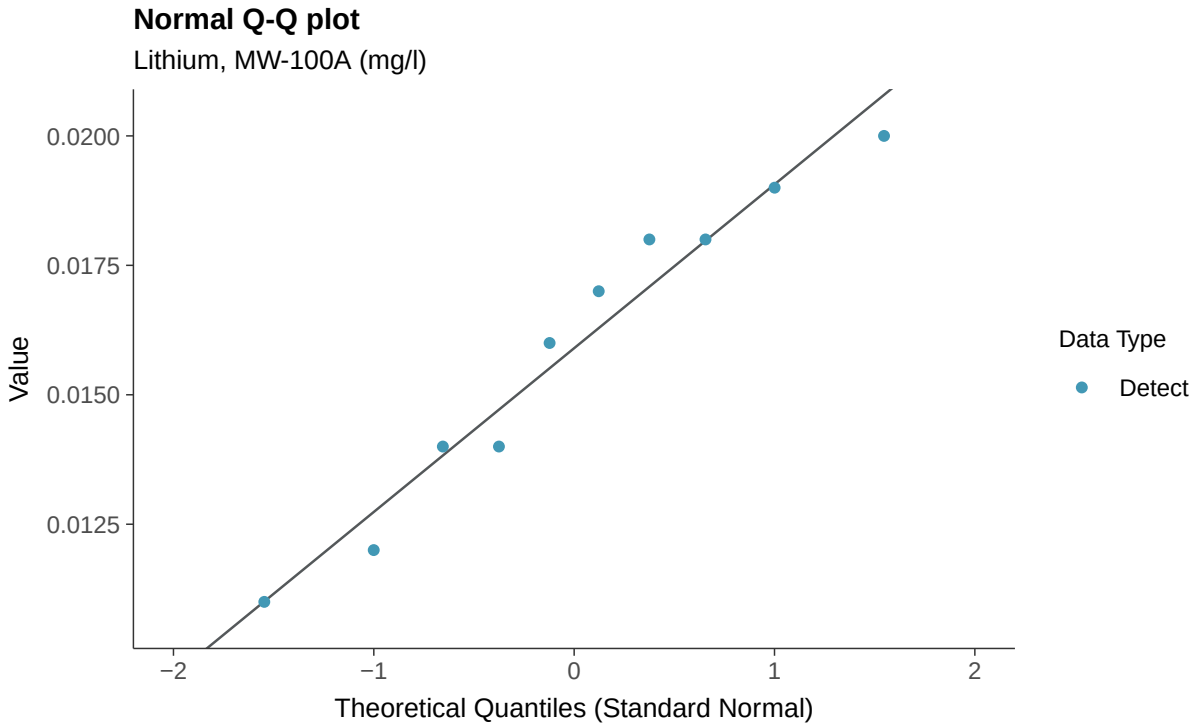


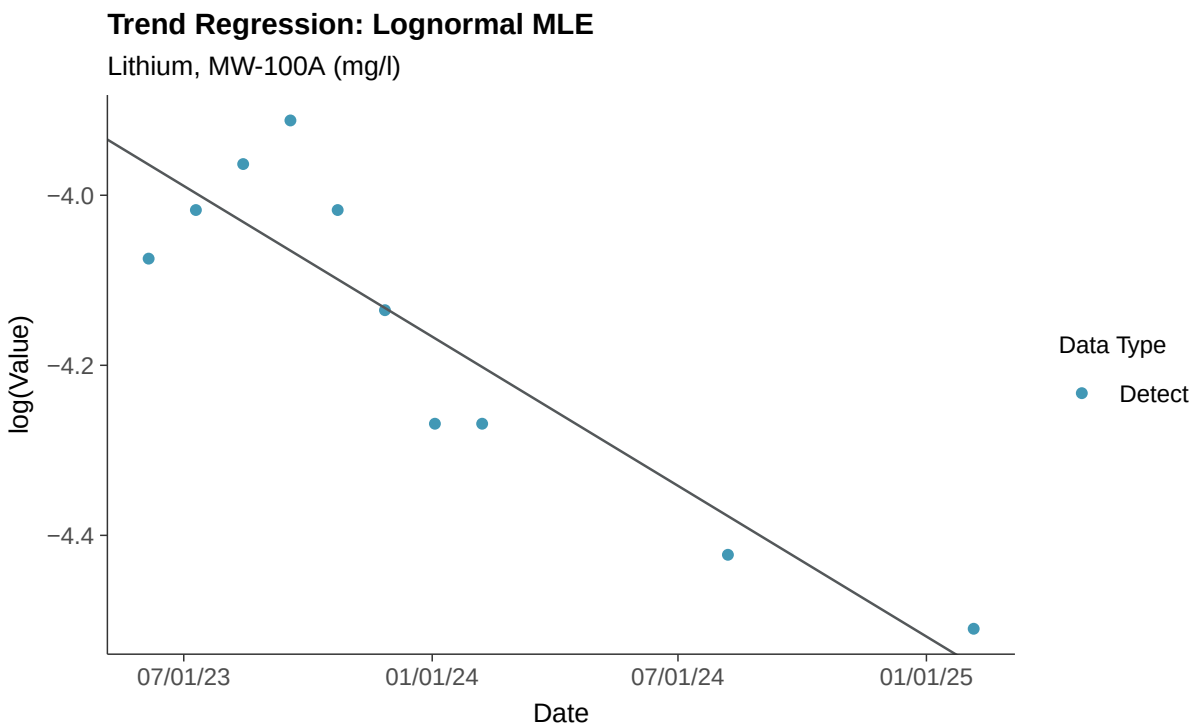
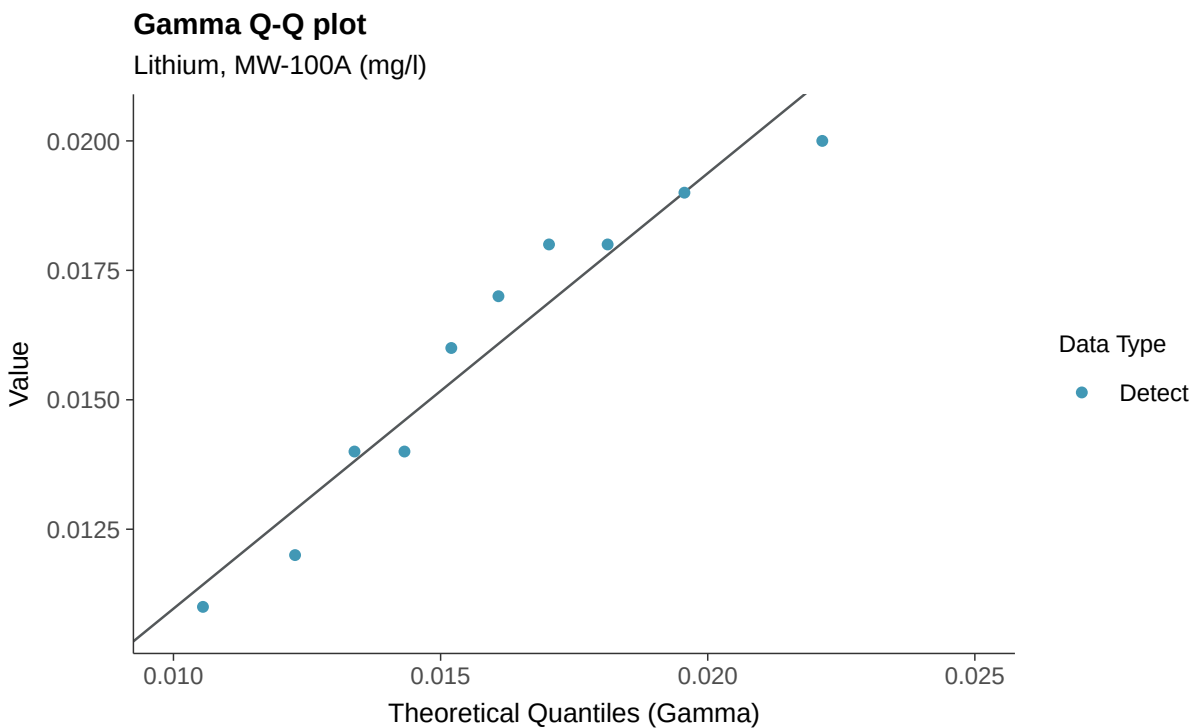
Appendix IV: Lithium, MW-100A

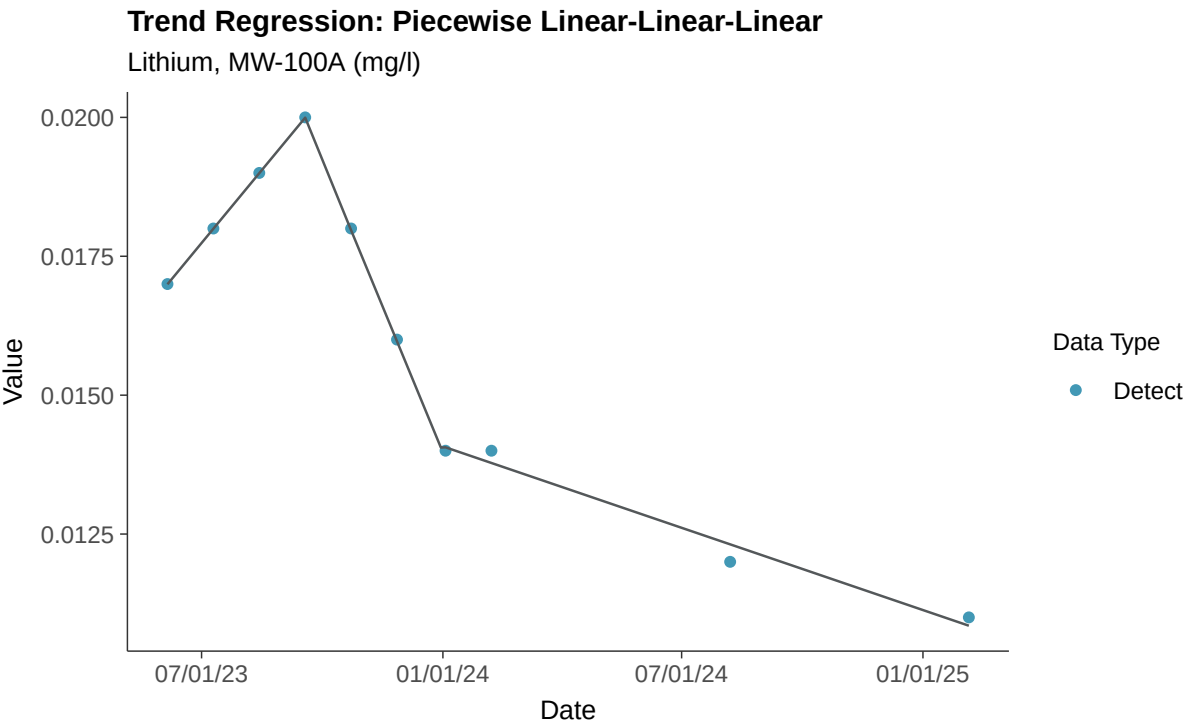
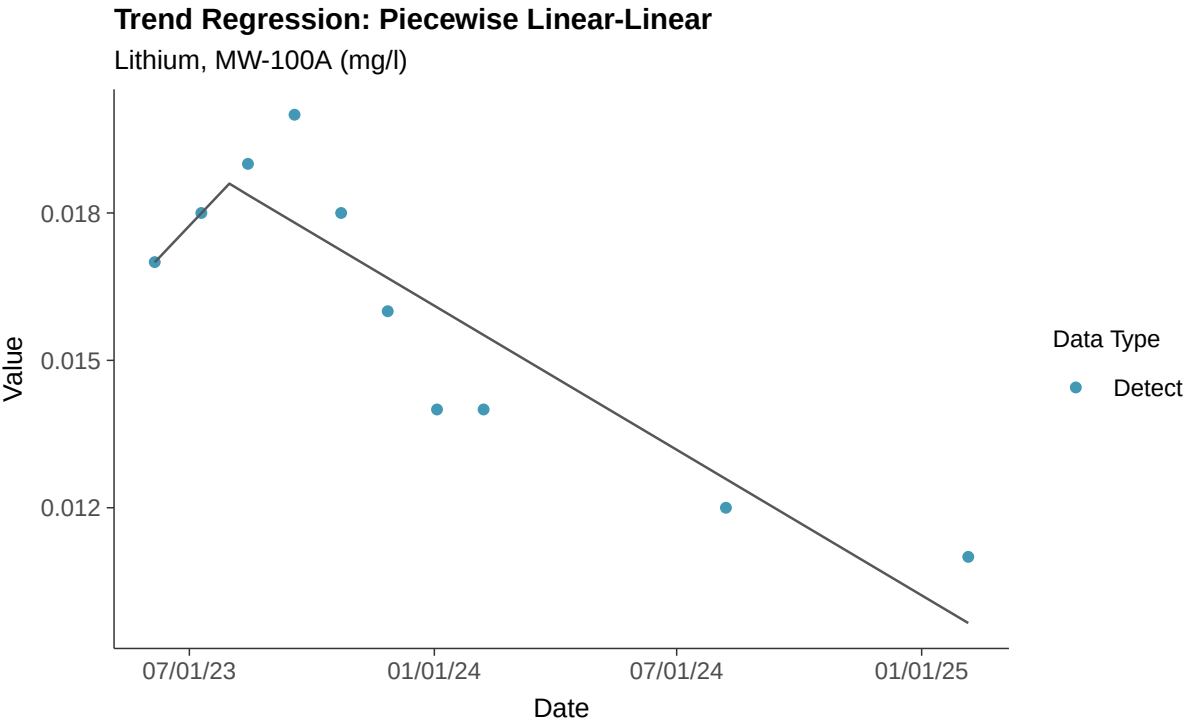
ID: 30_3_116







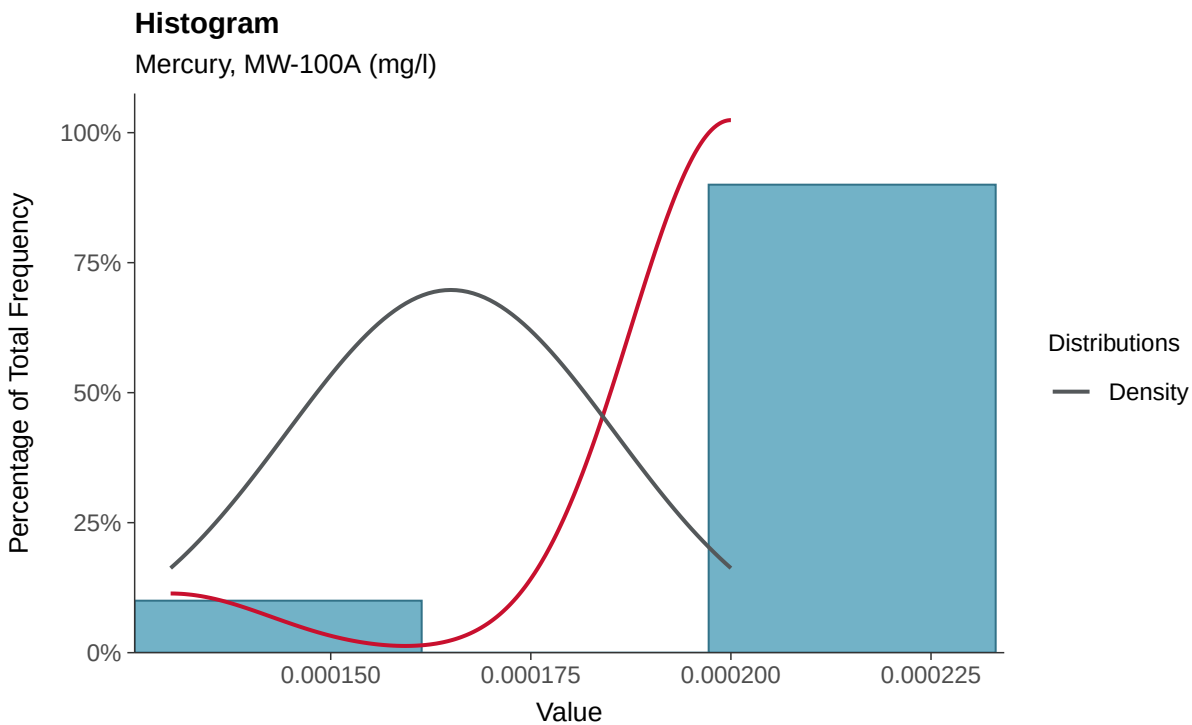
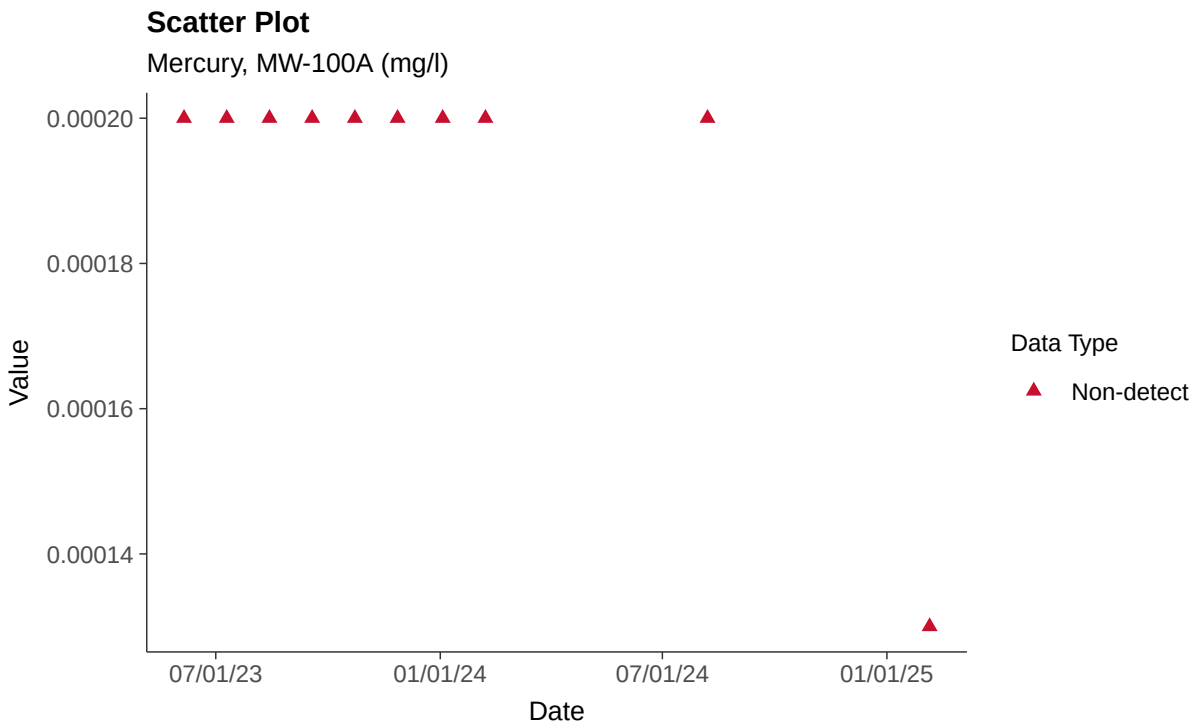


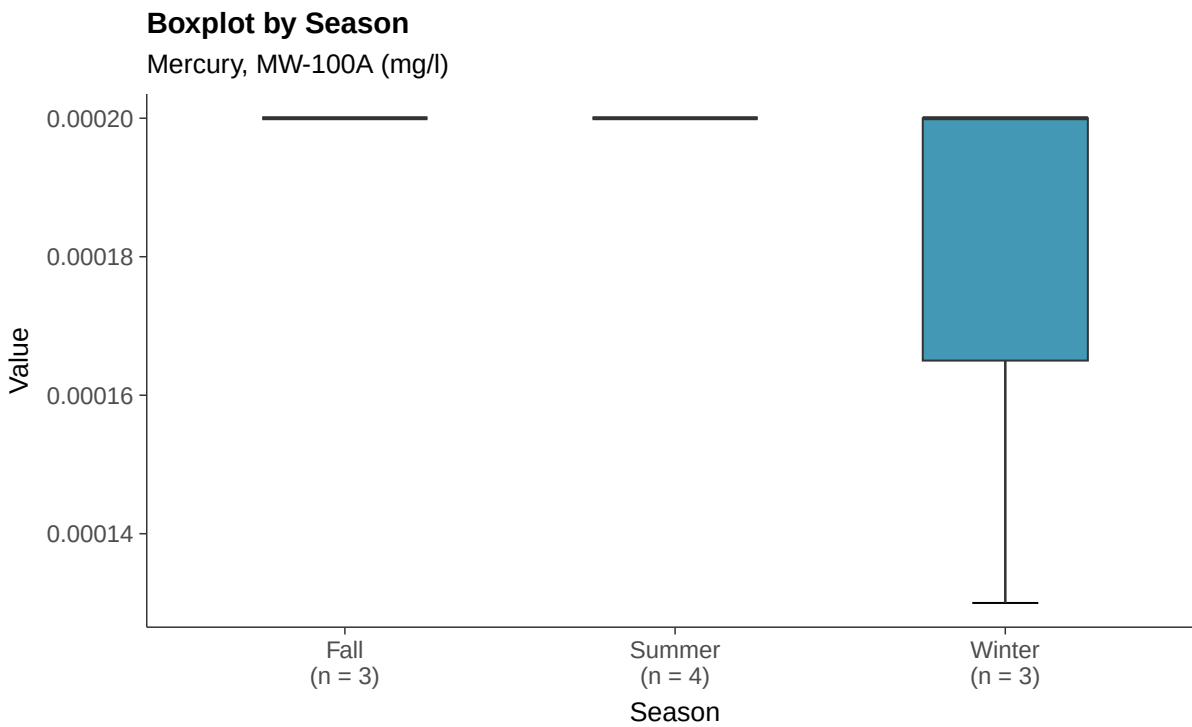
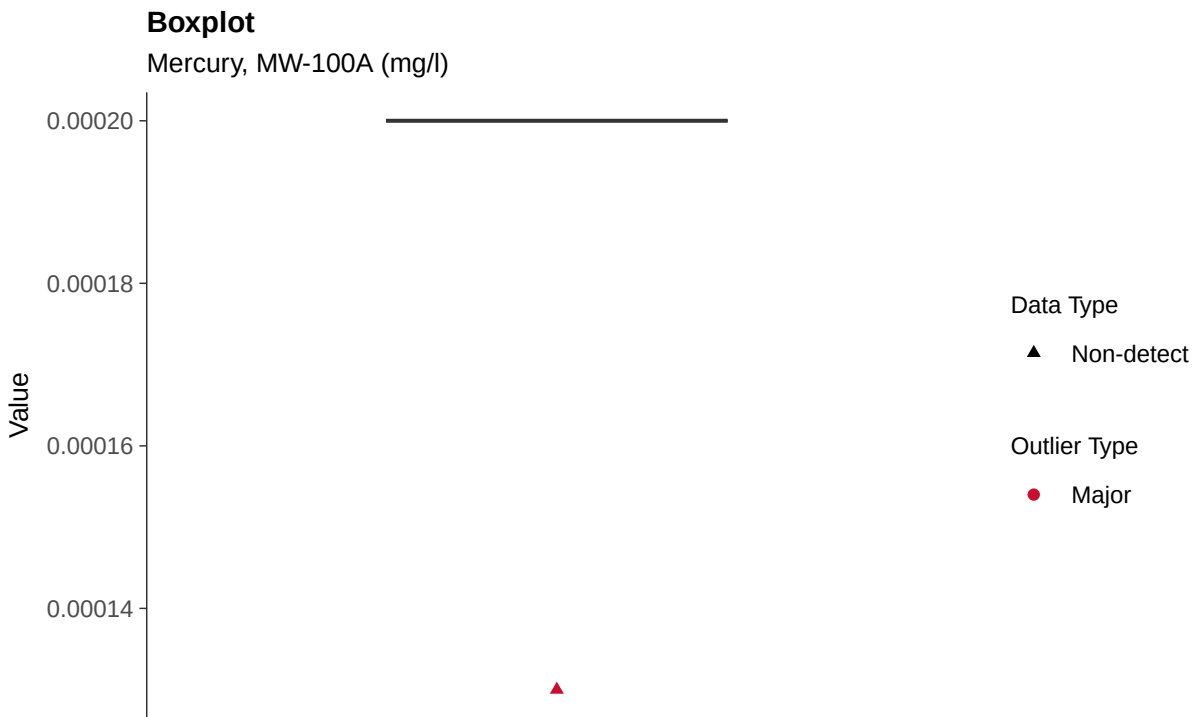




Appendix IV: Mercury, MW-100A

ID: 30_3_117

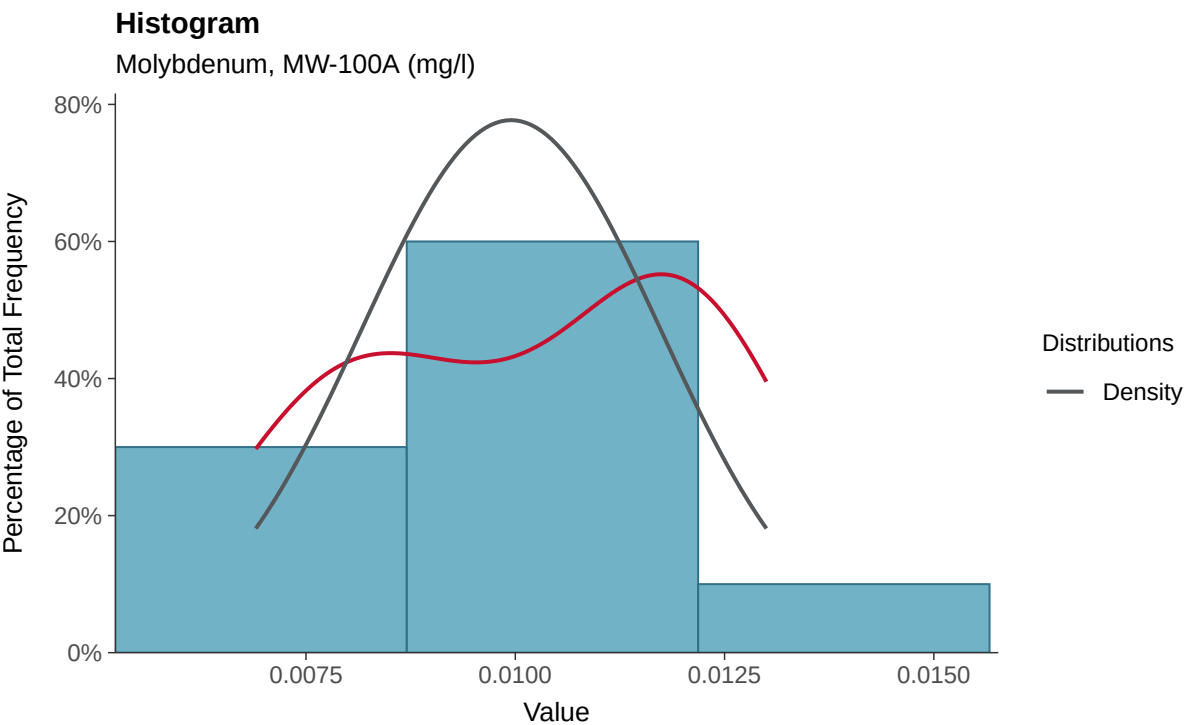
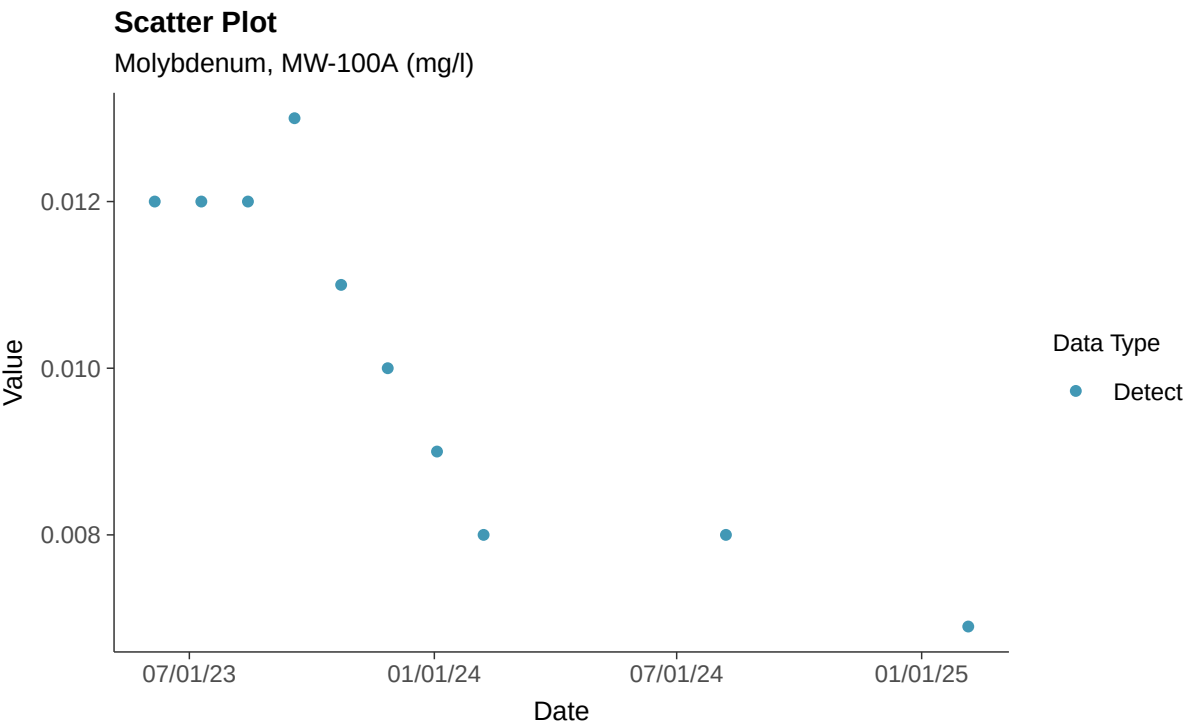


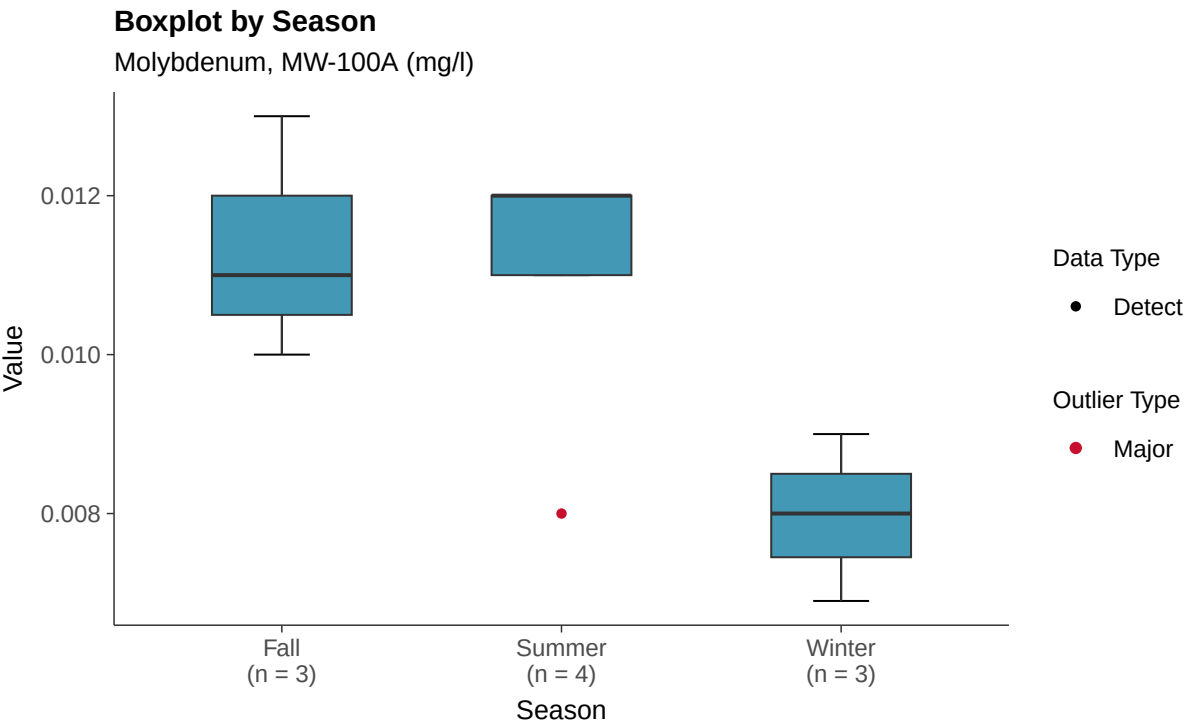
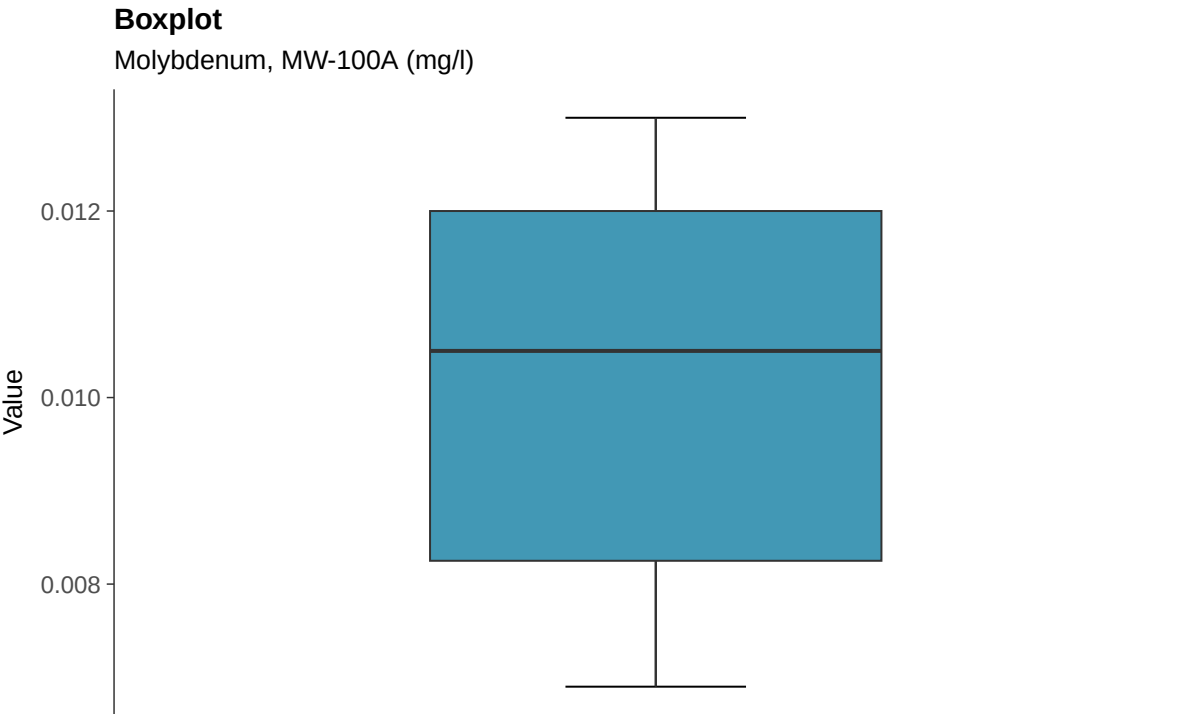


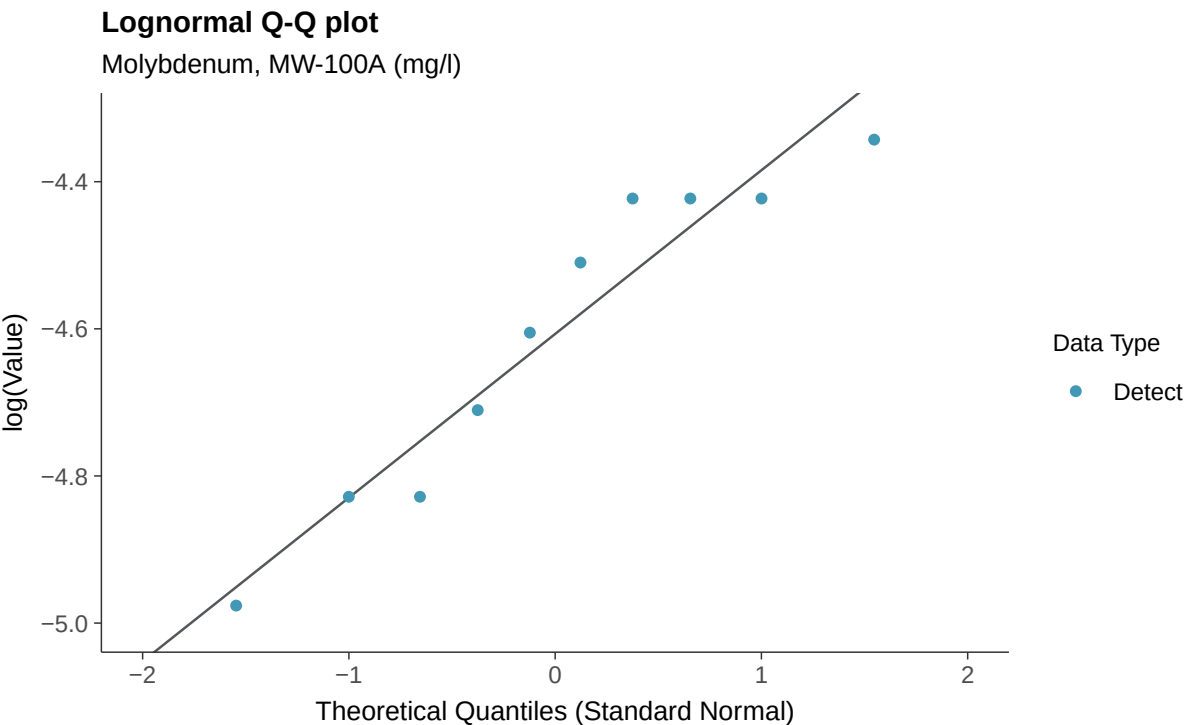
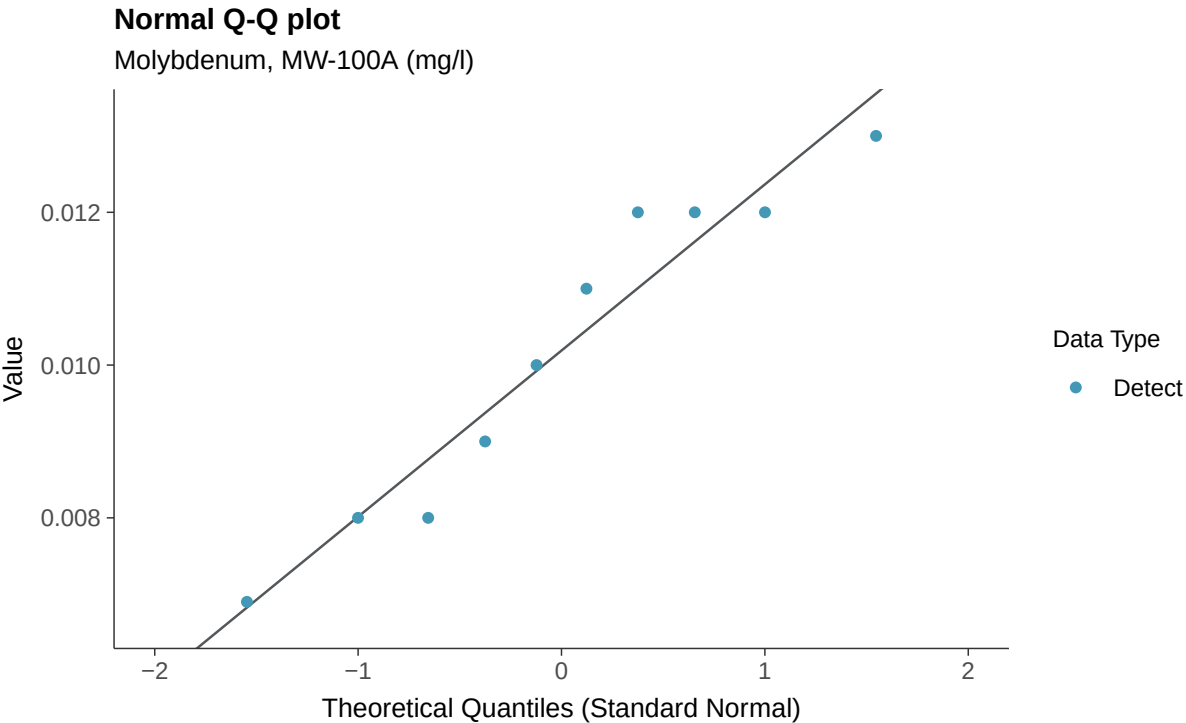


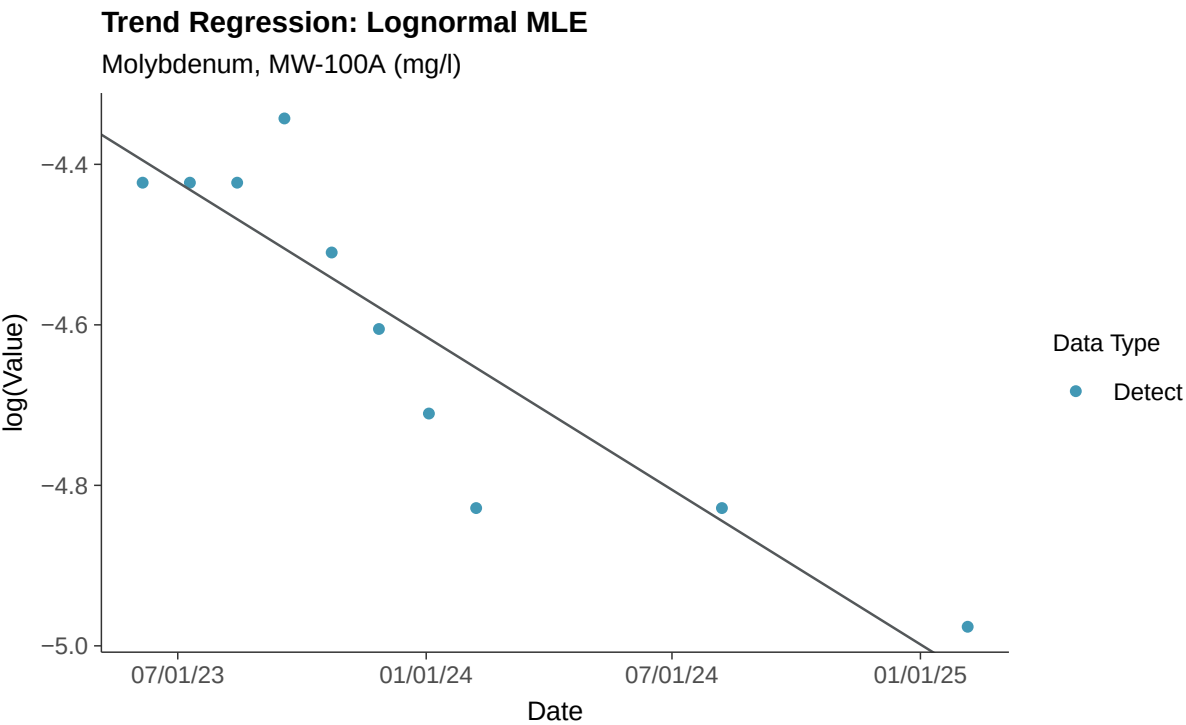
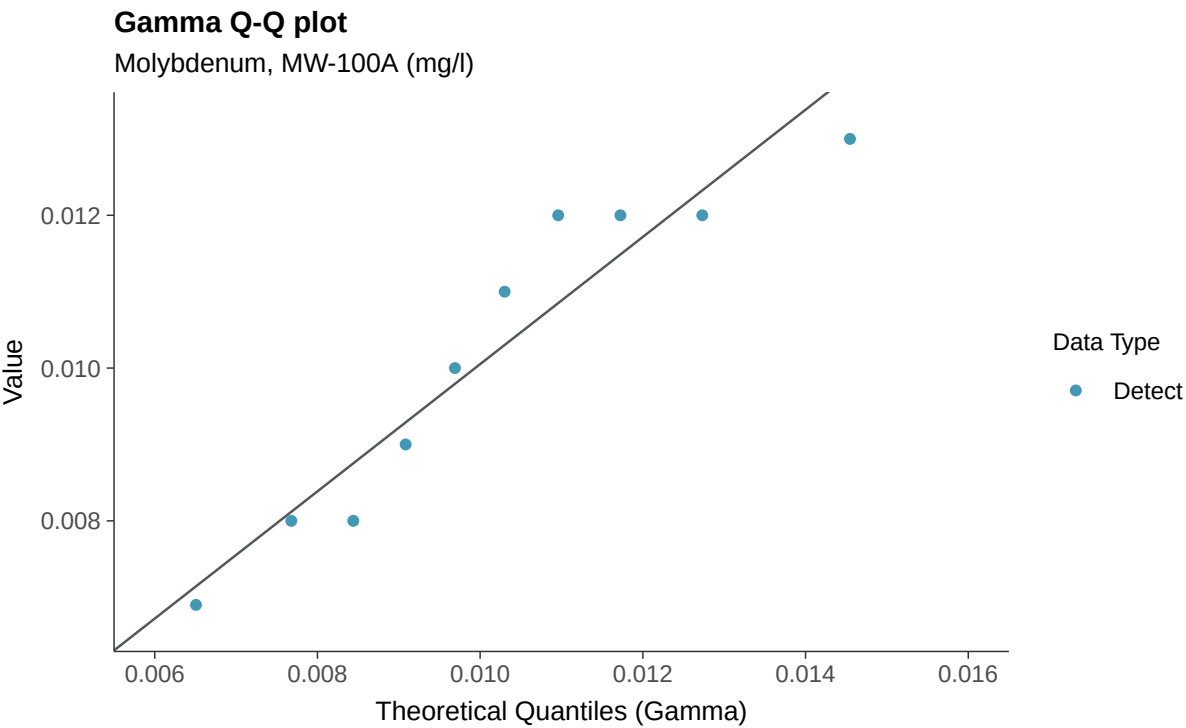
Appendix IV: Molybdenum, MW-100A

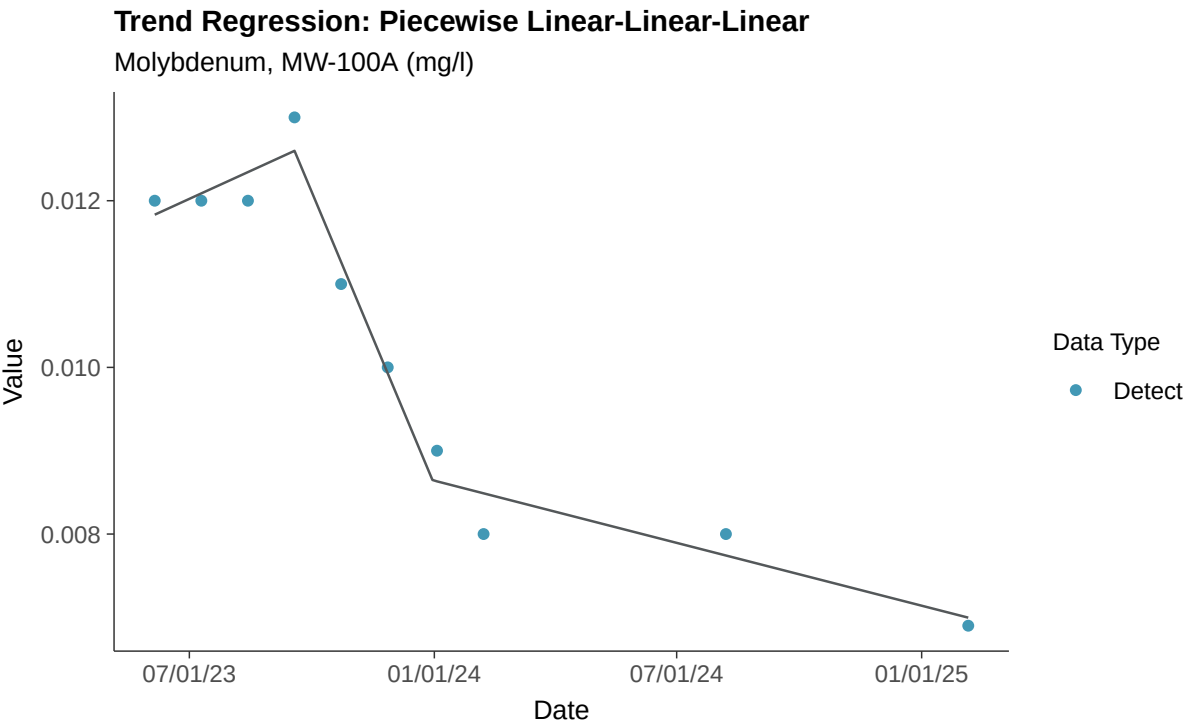
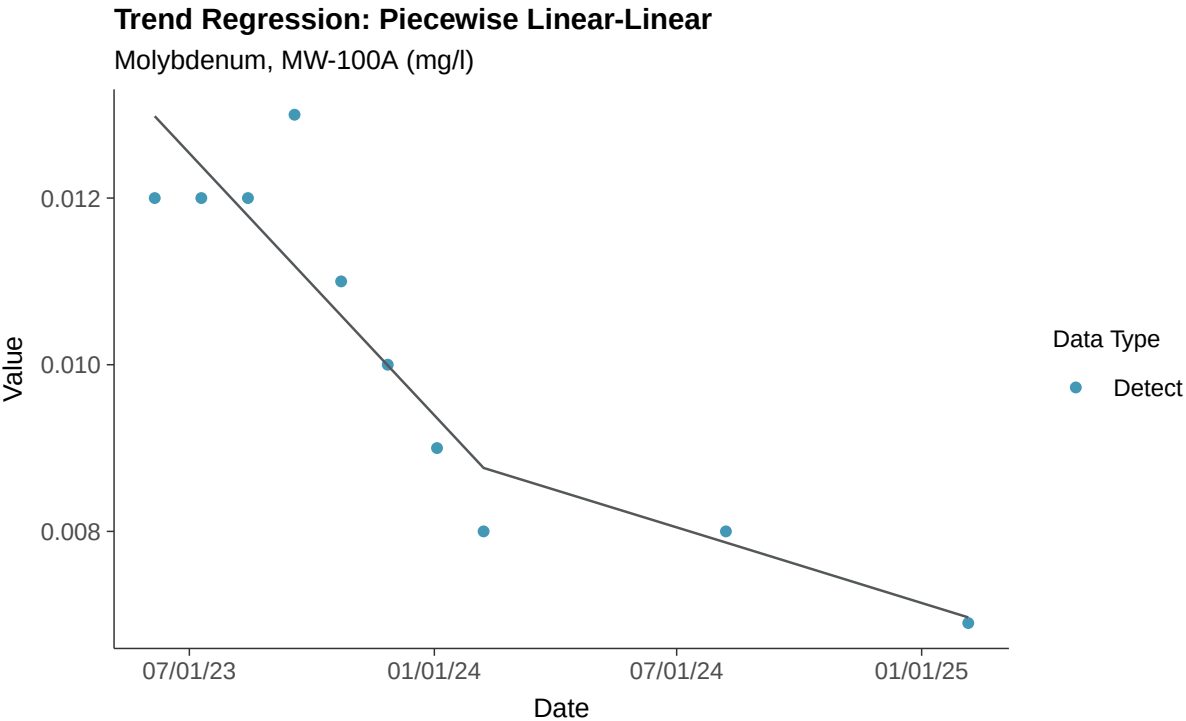
ID: 30_3_118







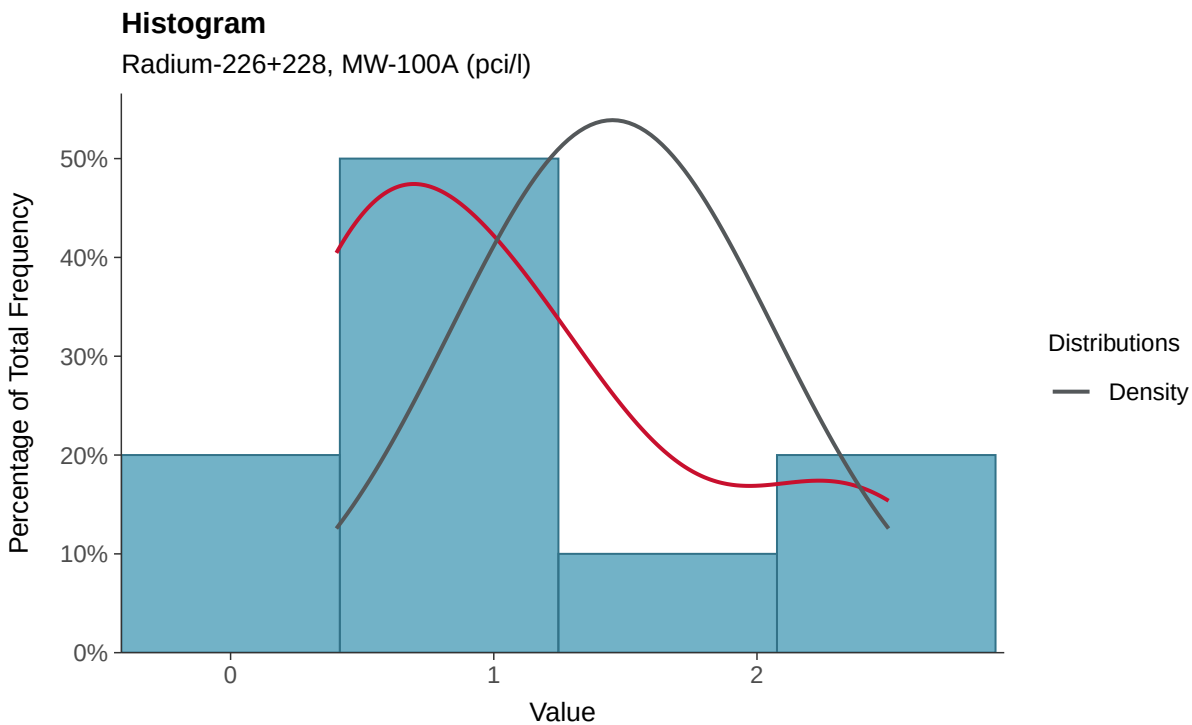
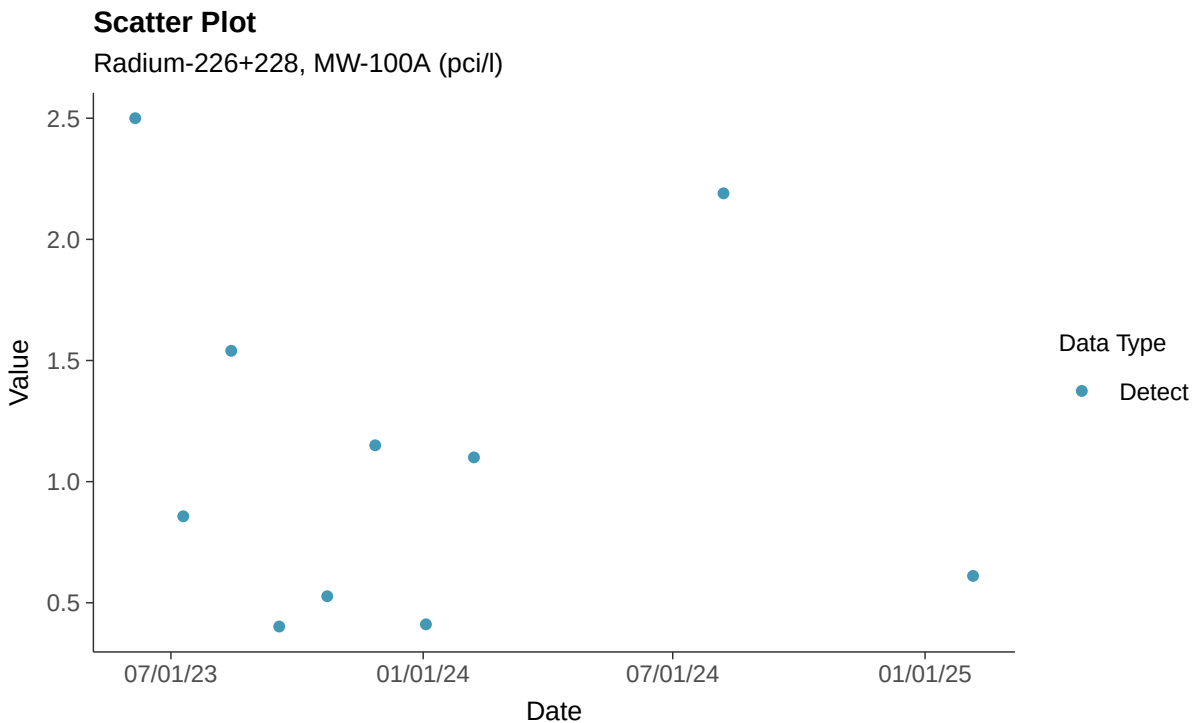






Appendix IV: Radium-226+228, MW-100A

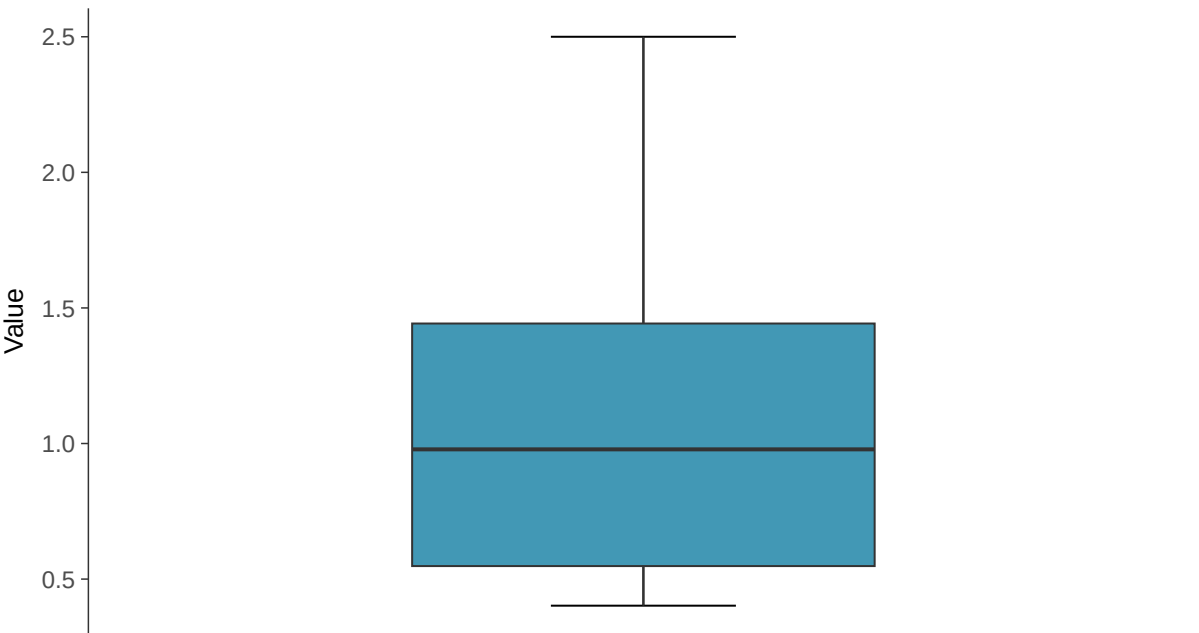
ID: 30_3_121





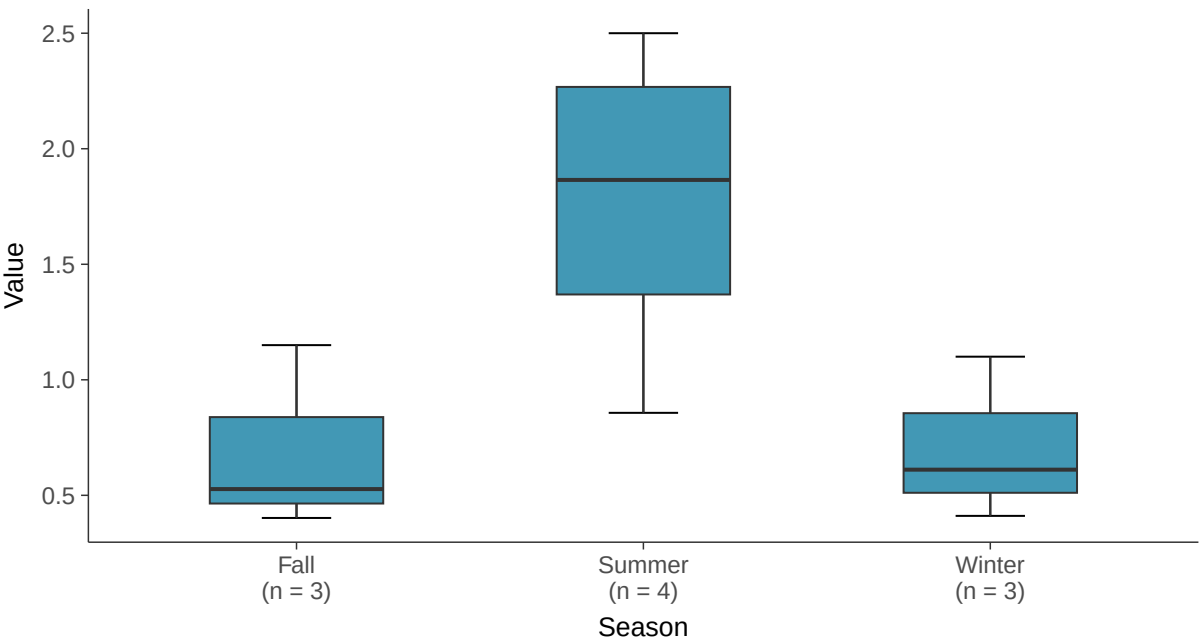
Boxplot

Radium-226+228, MW-100A (pci/l)



Boxplot by Season

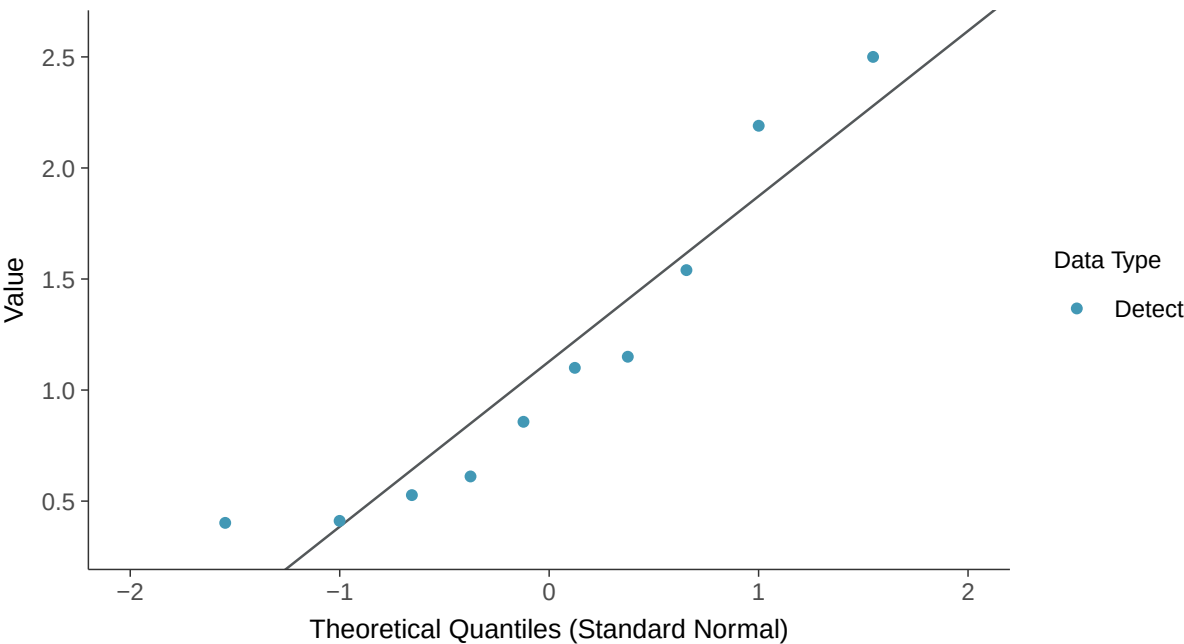
Radium-226+228, MW-100A (pci/l)





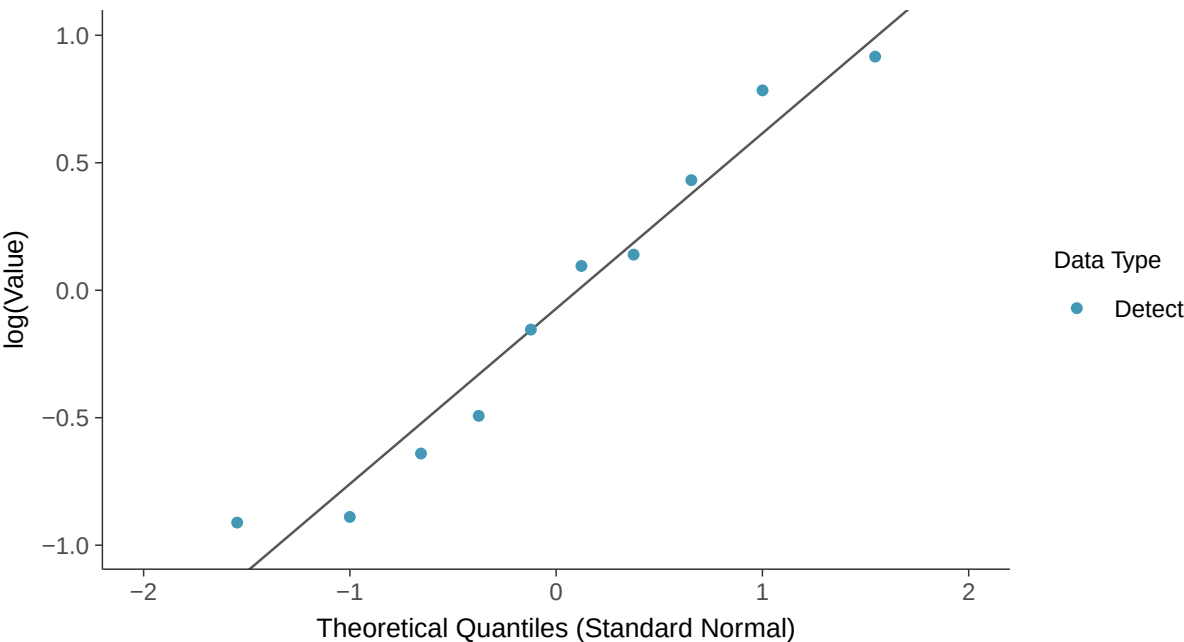
Normal Q-Q plot

Radium-226+228, MW-100A (pci/l)



Lognormal Q-Q plot

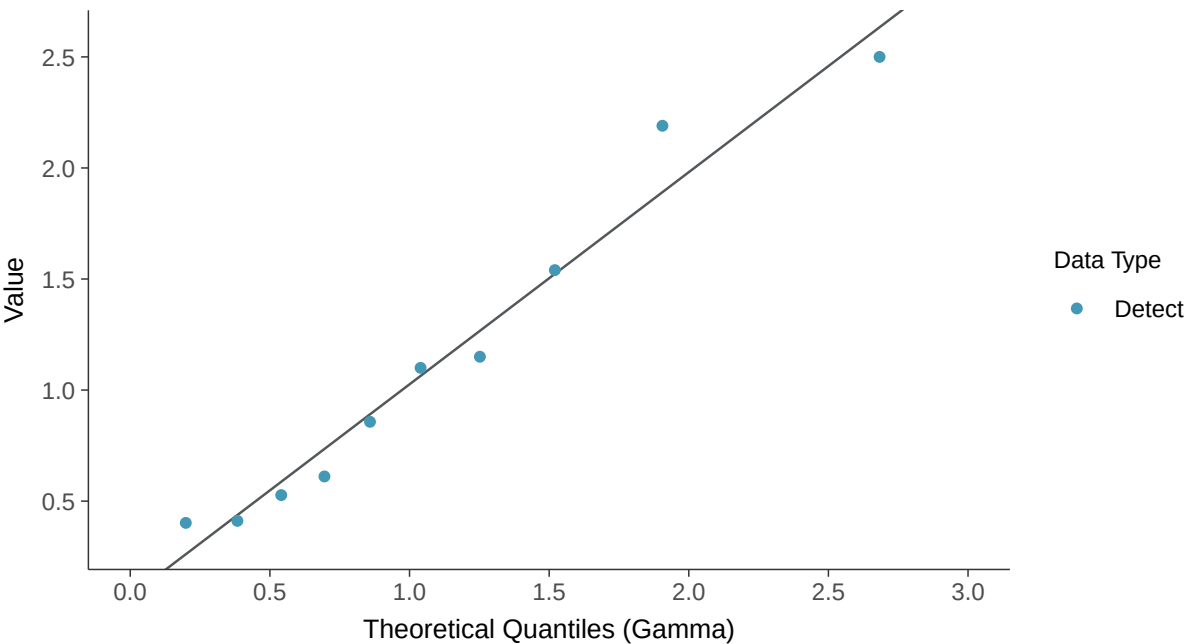
Radium-226+228, MW-100A (pci/l)





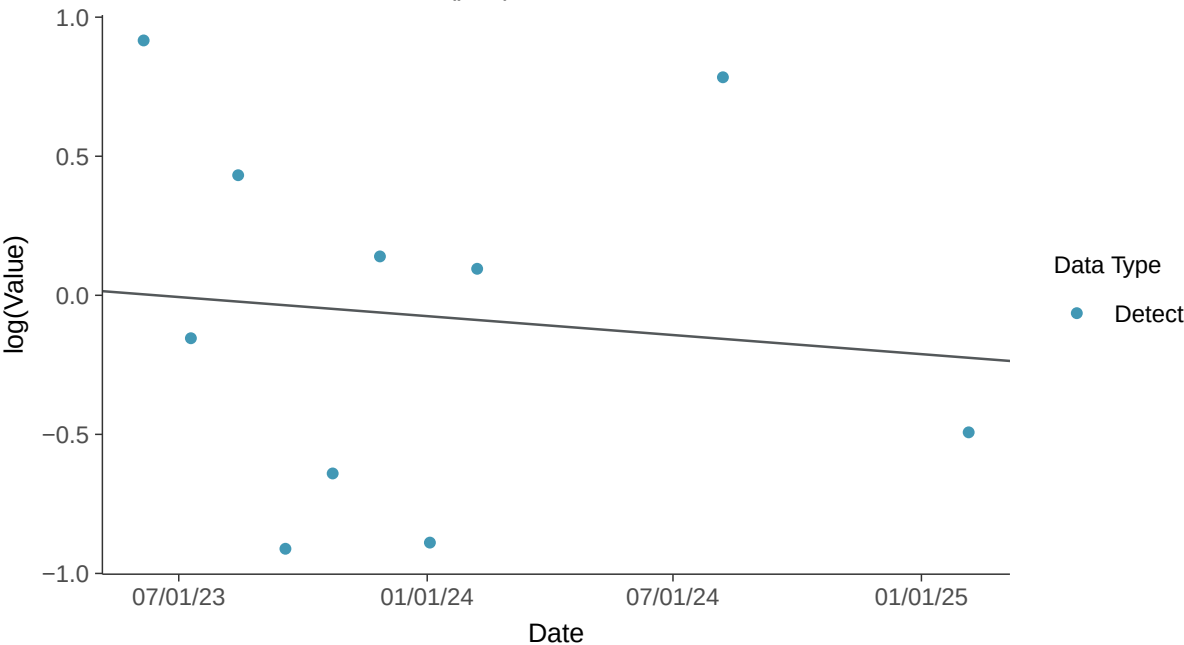
Gamma Q-Q plot

Radium-226+228, MW-100A (pci/l)



Trend Regression: Lognormal MLE

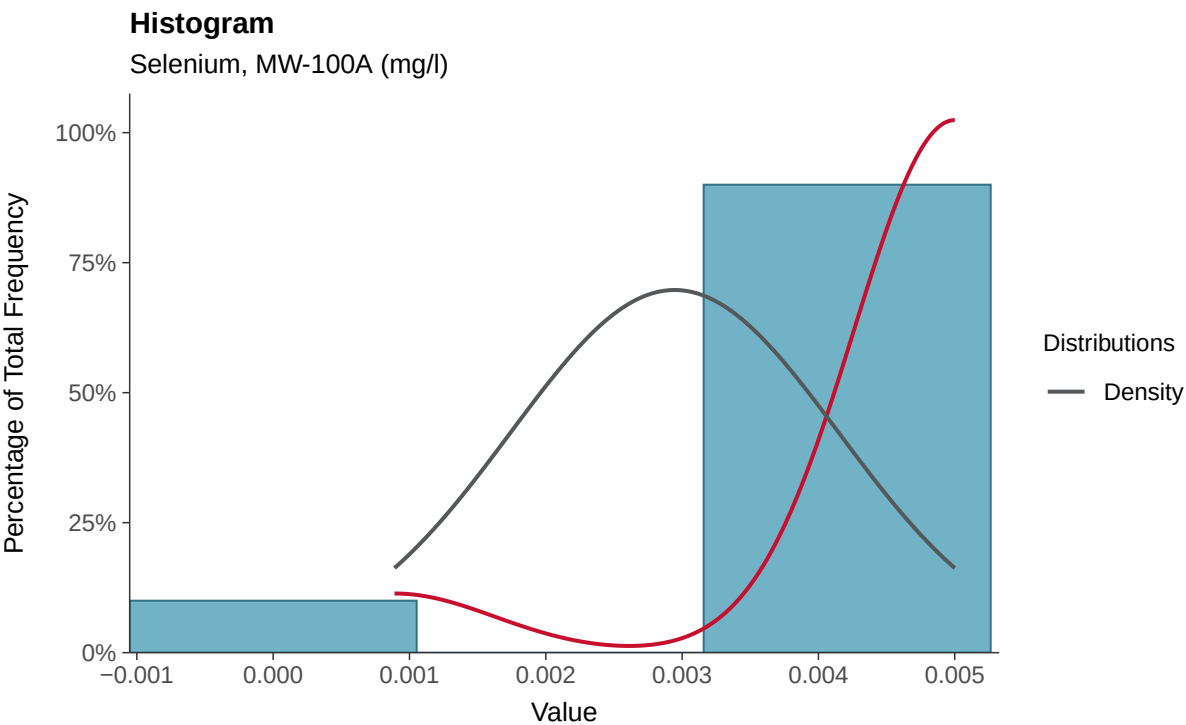
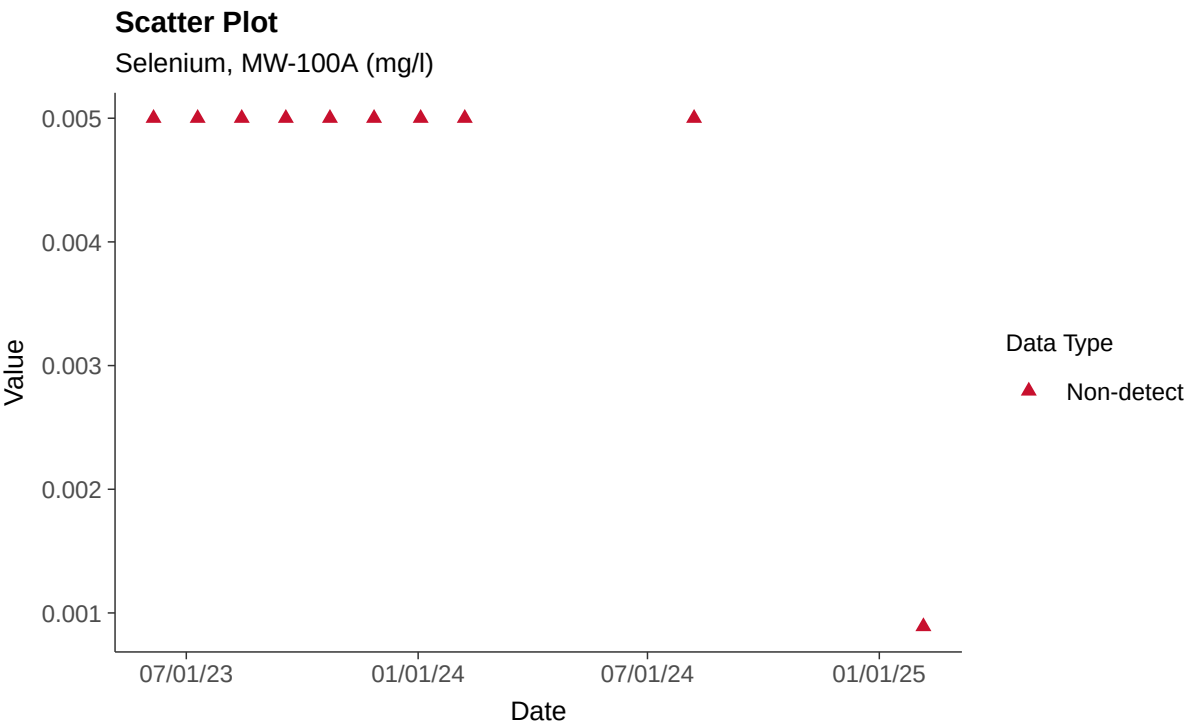
Radium-226+228, MW-100A (pci/l)

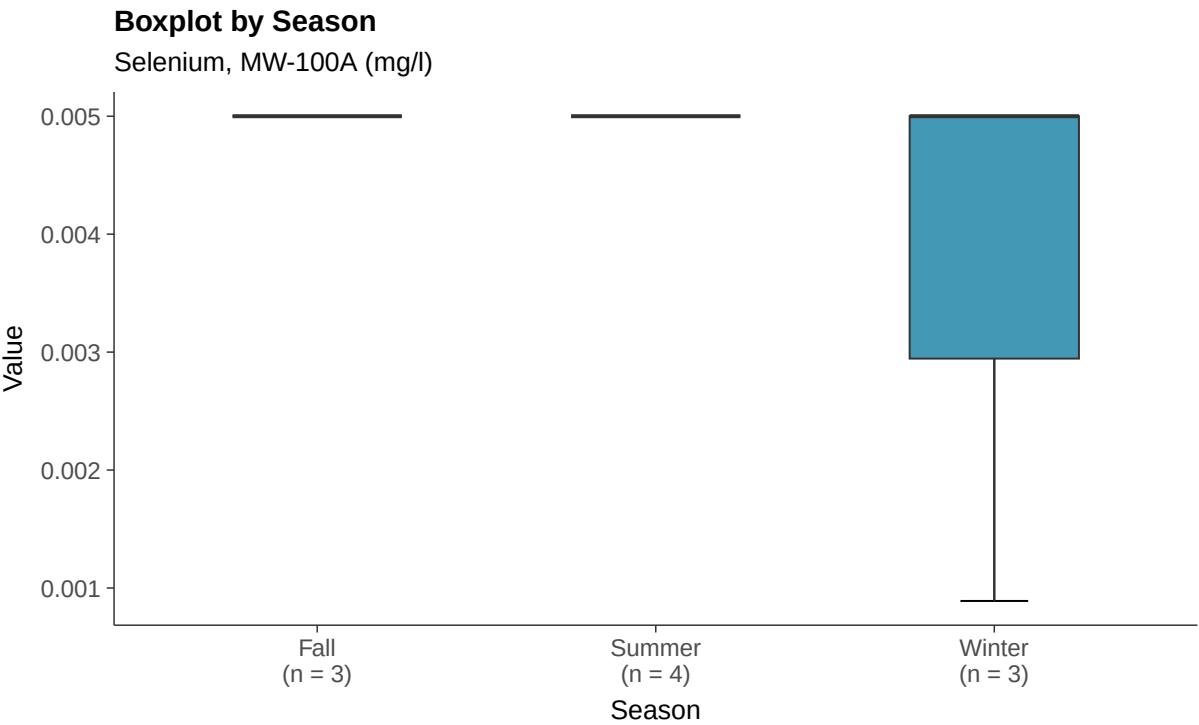
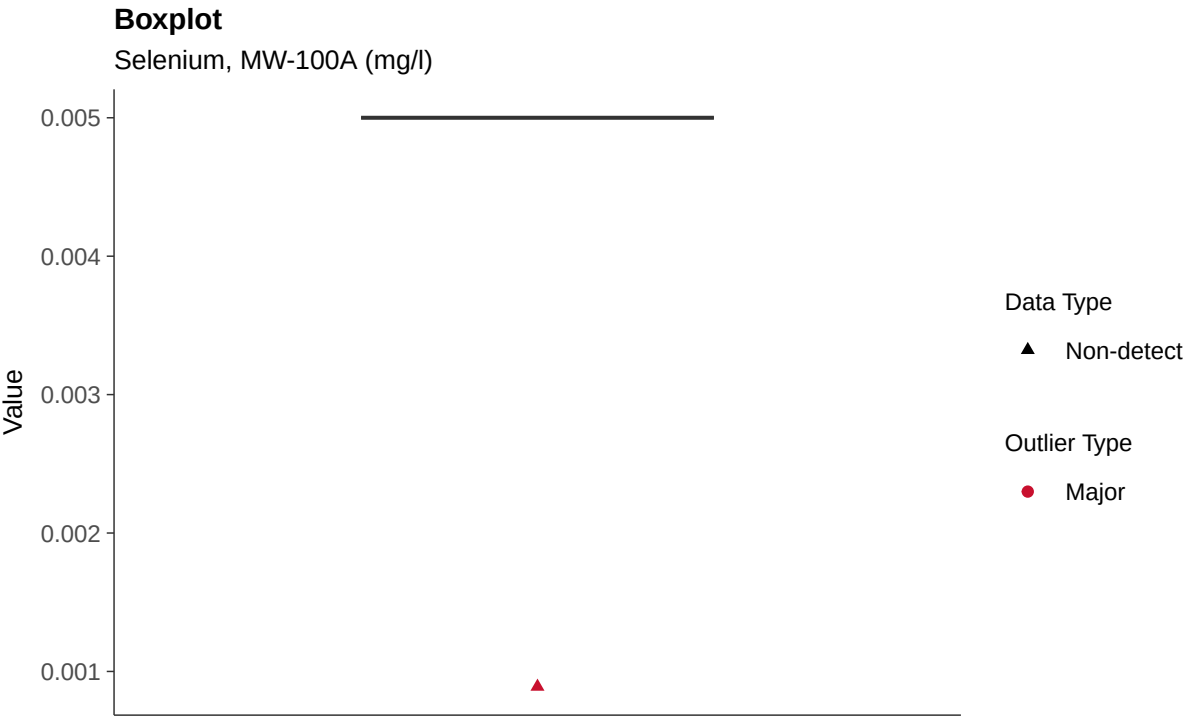




Appendix IV: Selenium, MW-100A

ID: 30_3_122

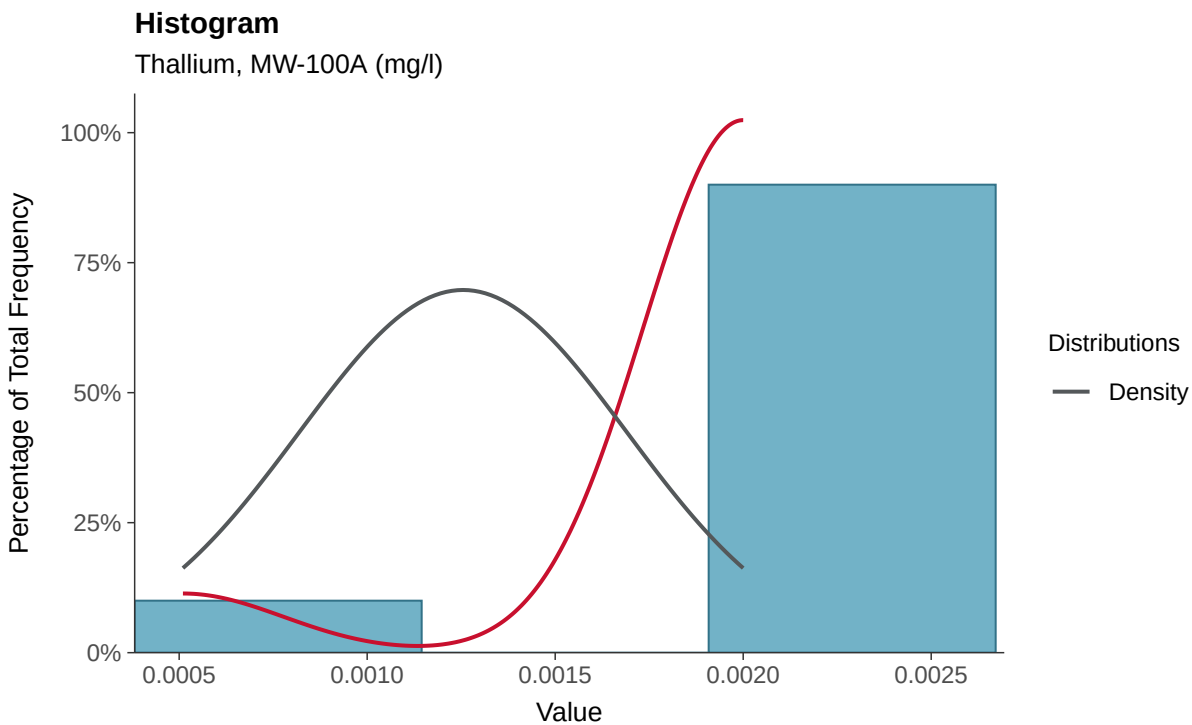
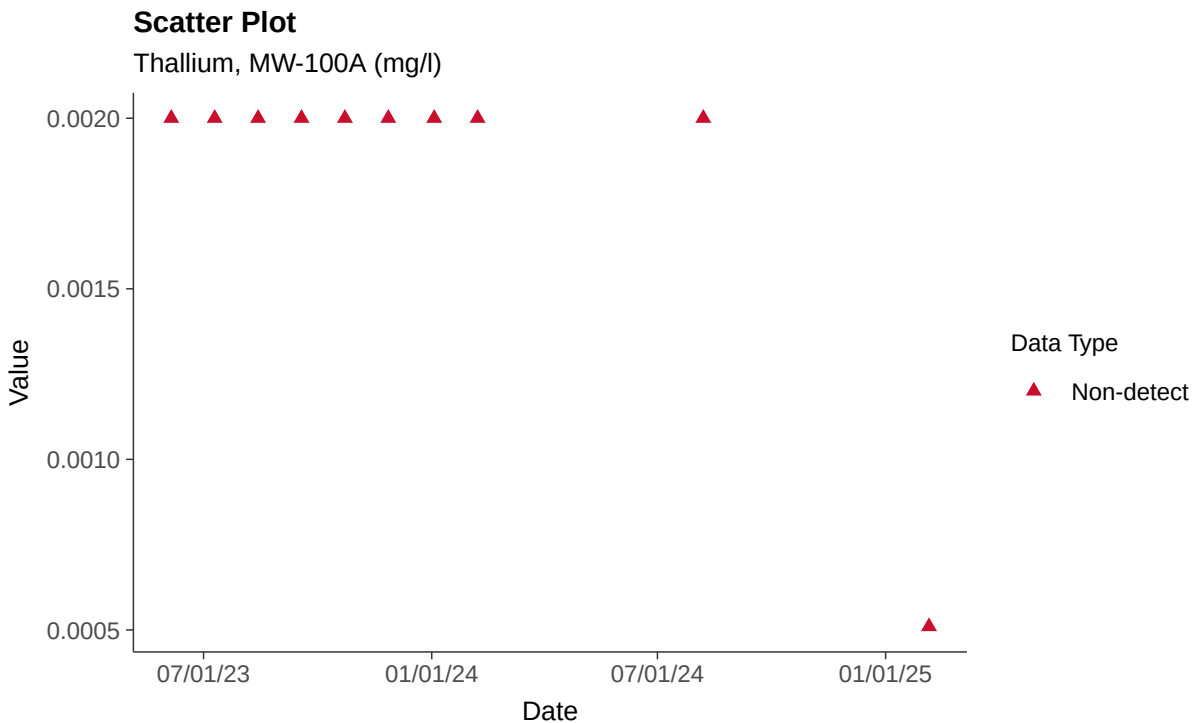


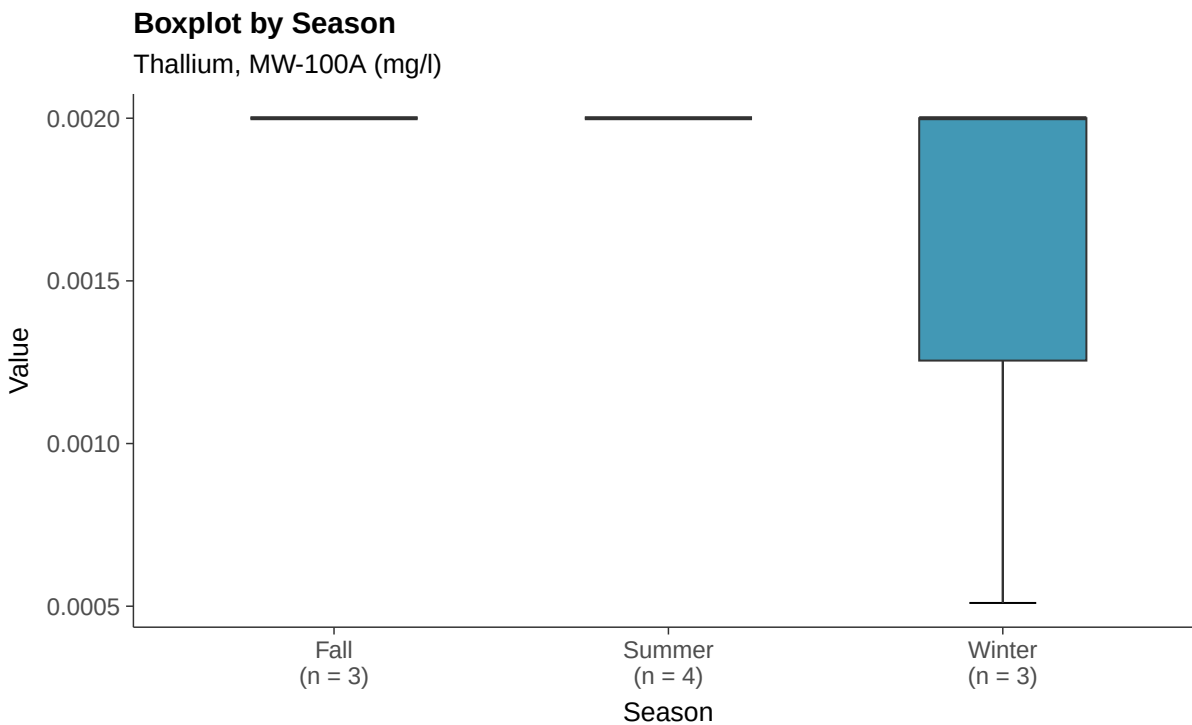
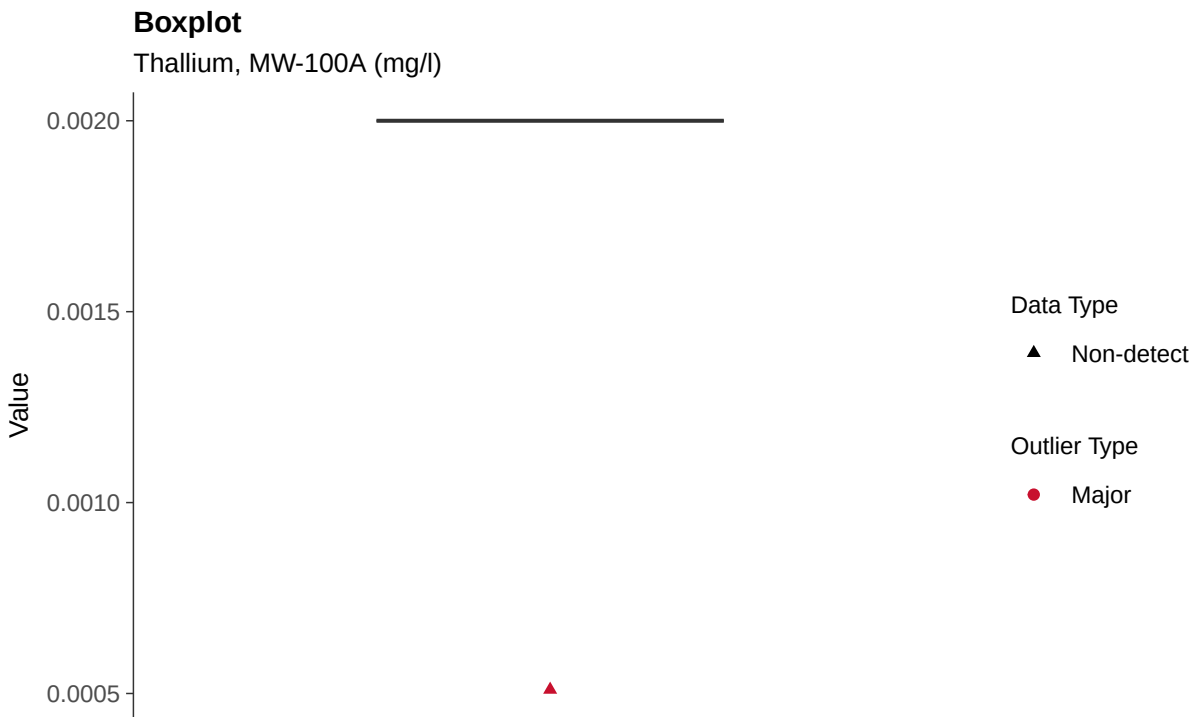




Appendix IV: Thallium, MW-100A

ID: 30_3_125

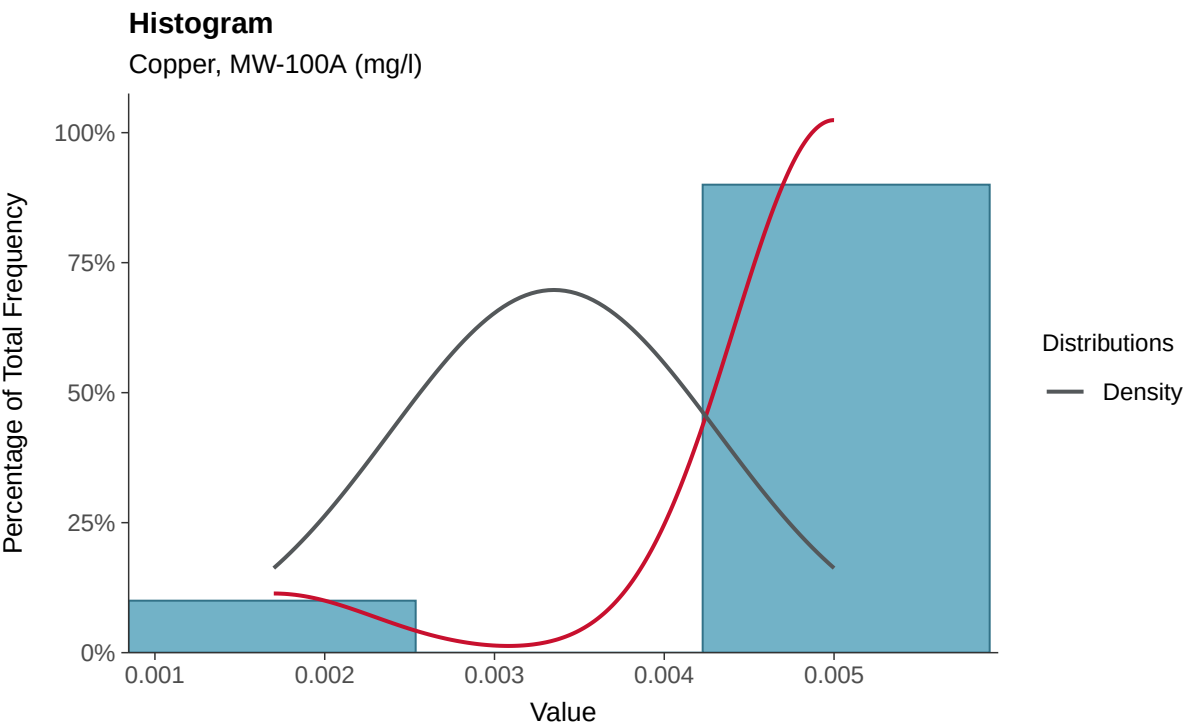
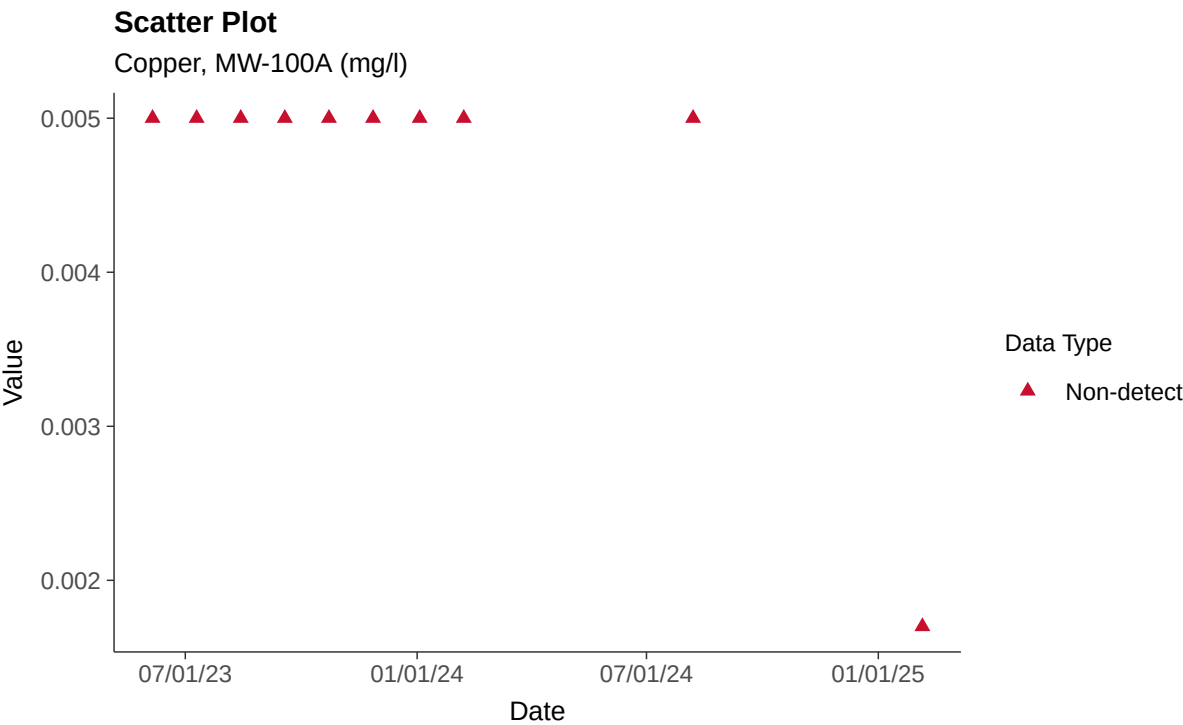


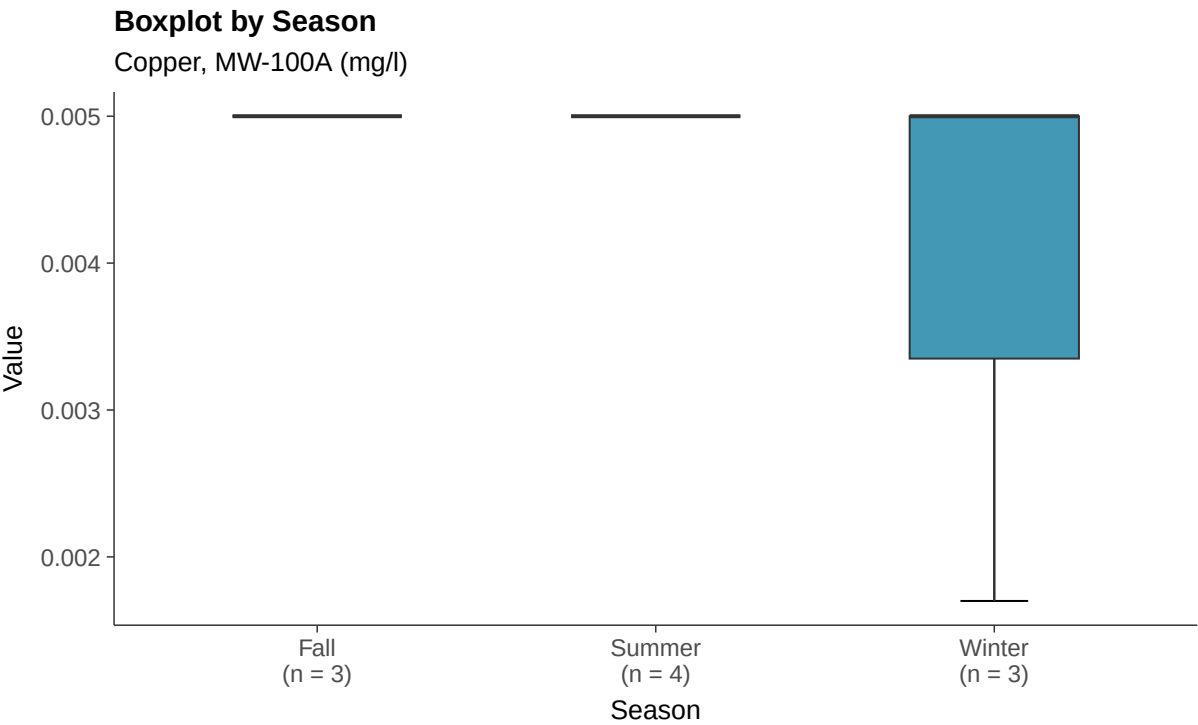
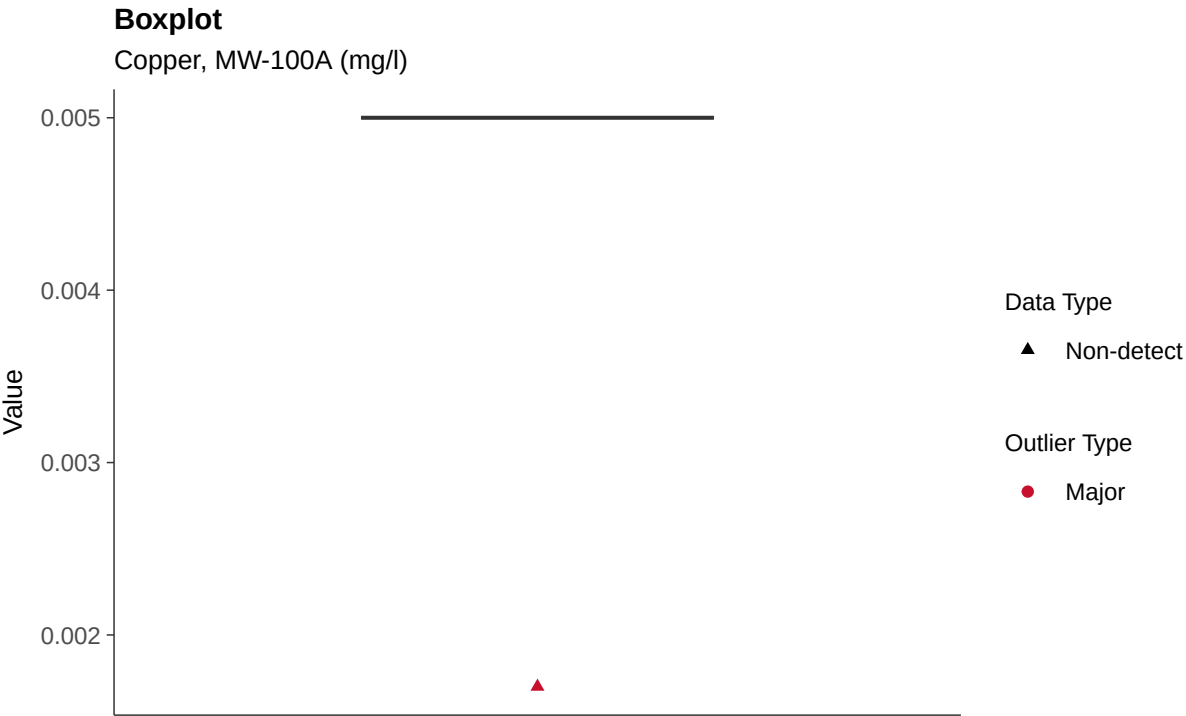




Part 115: Copper, MW-100A

ID: 30_5_111

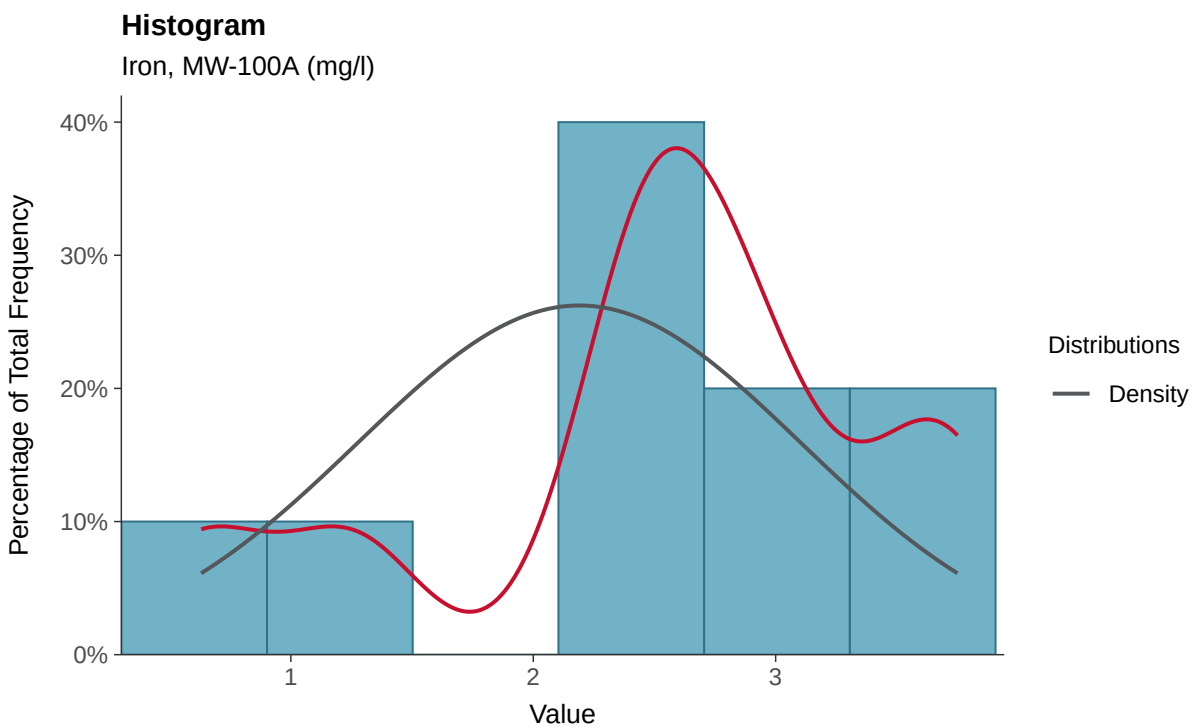
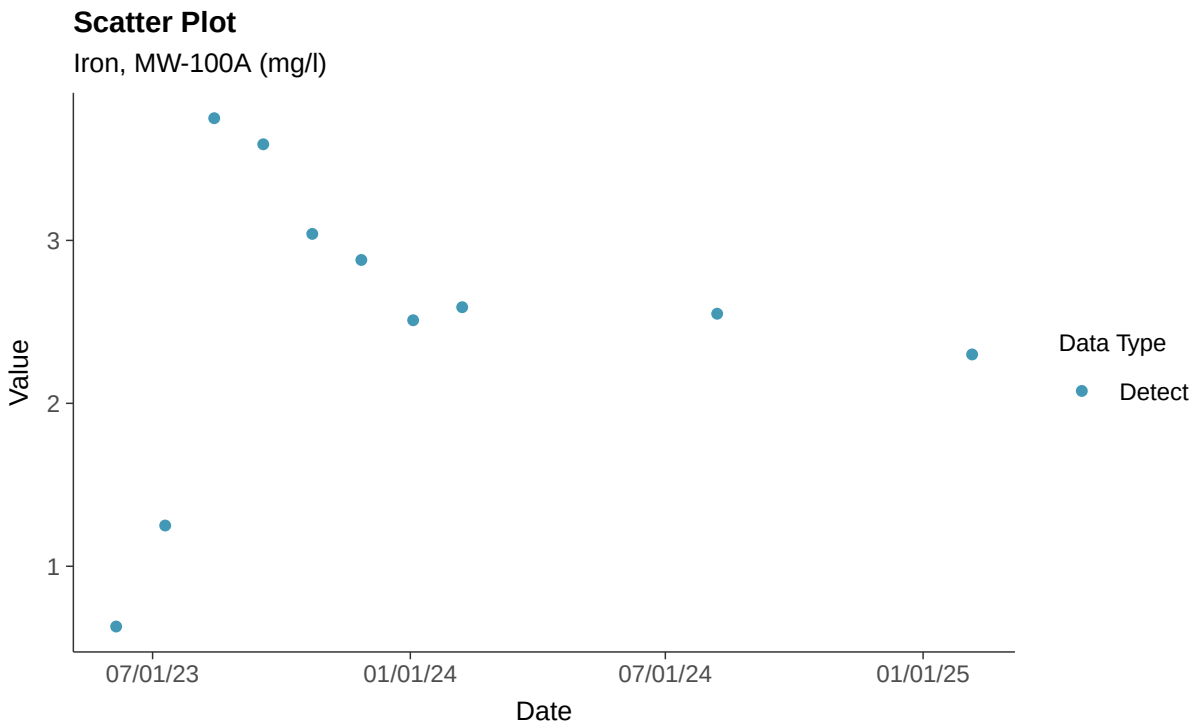


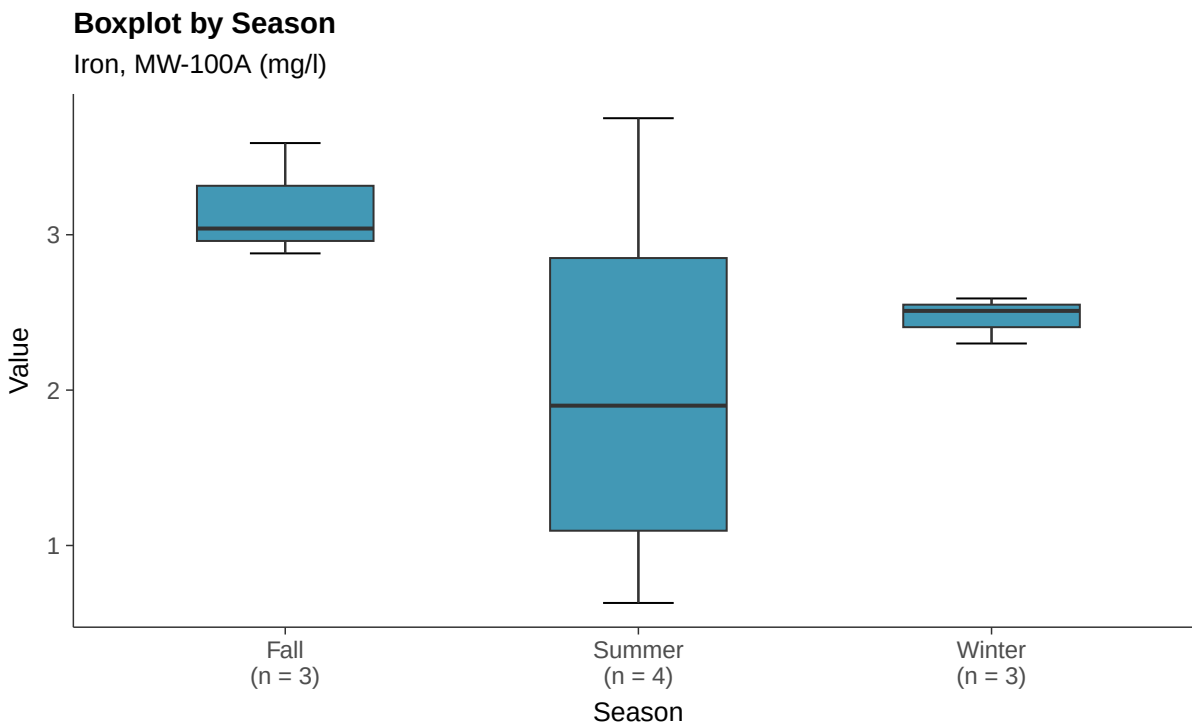
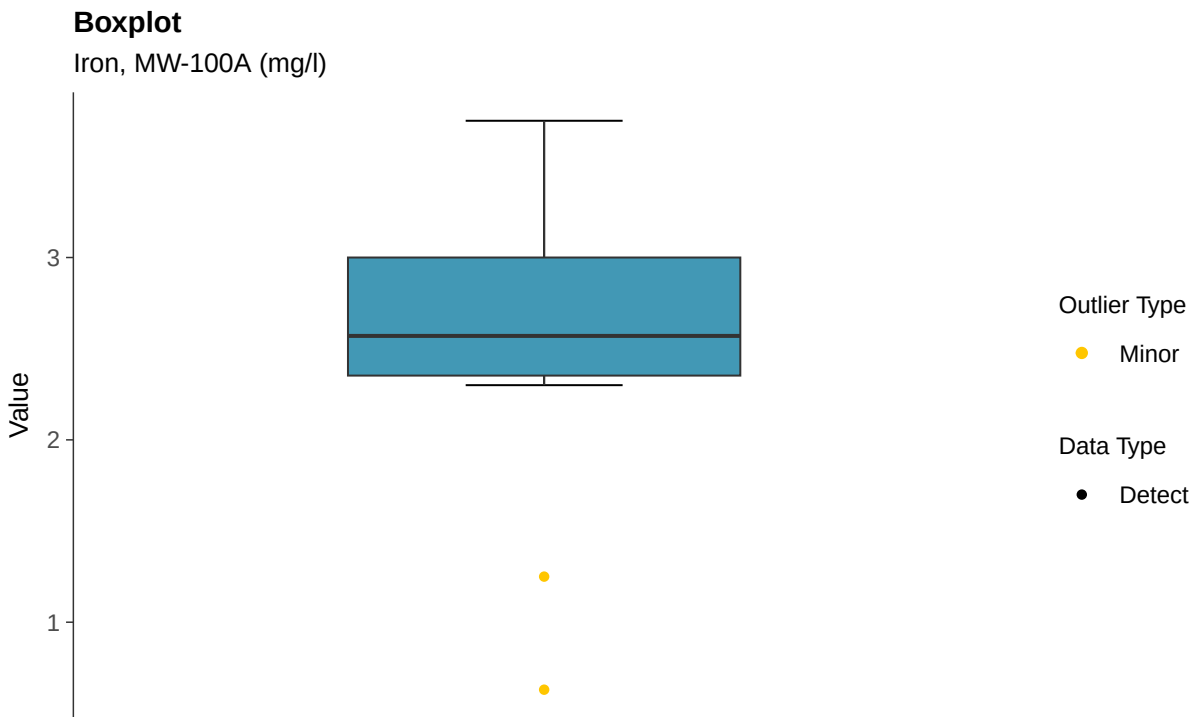


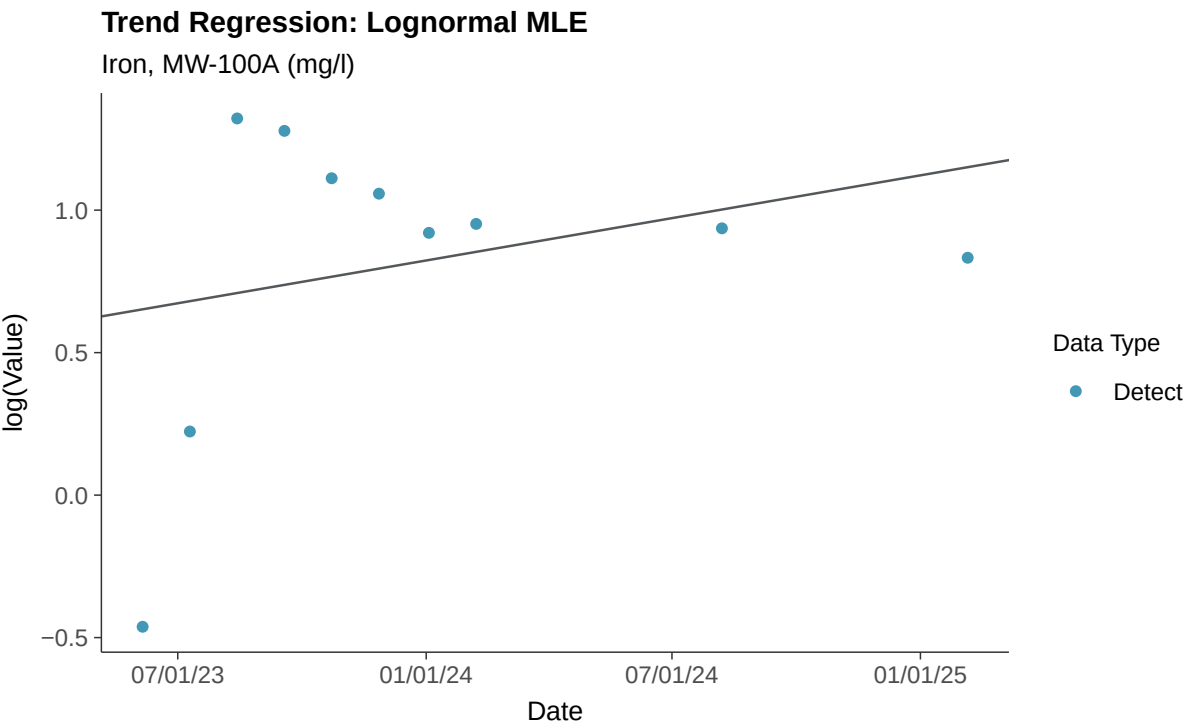
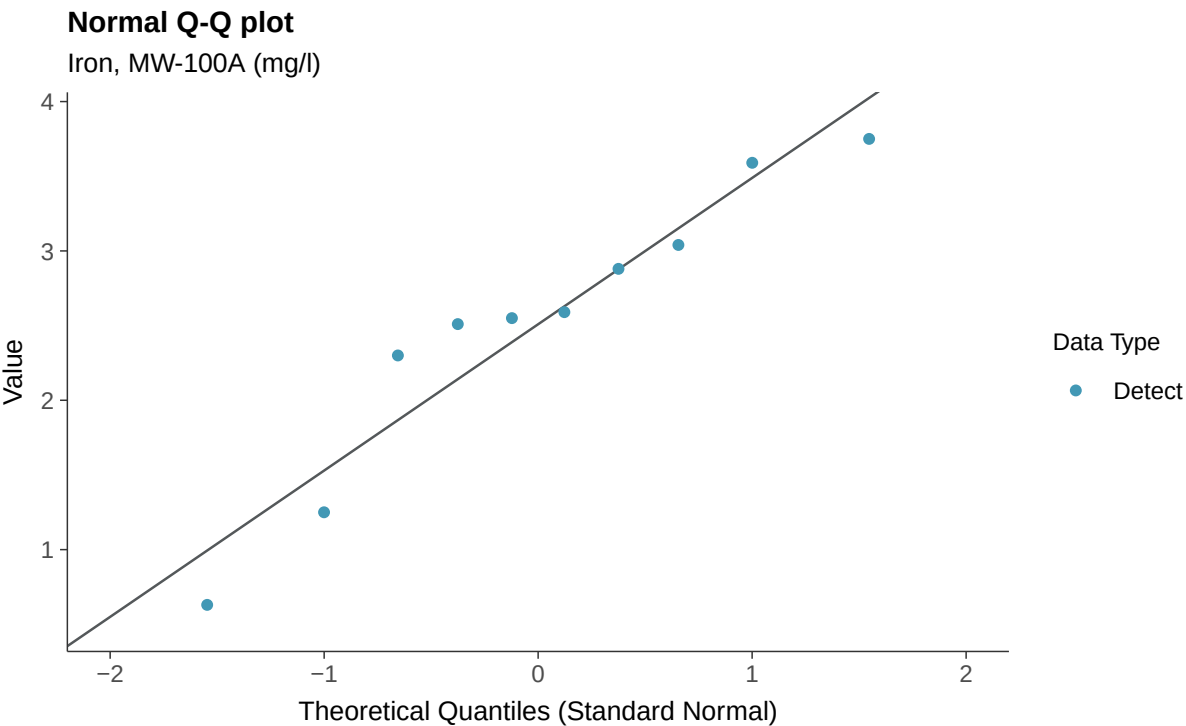


Part 115: Iron, MW-100A

ID: 30_5_114



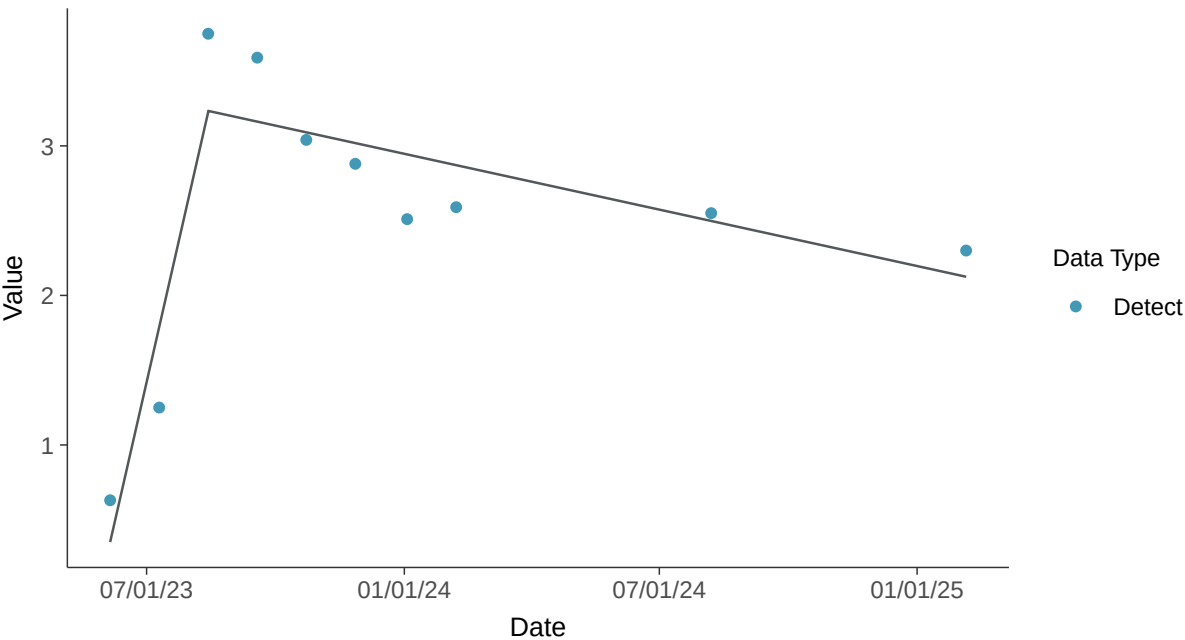






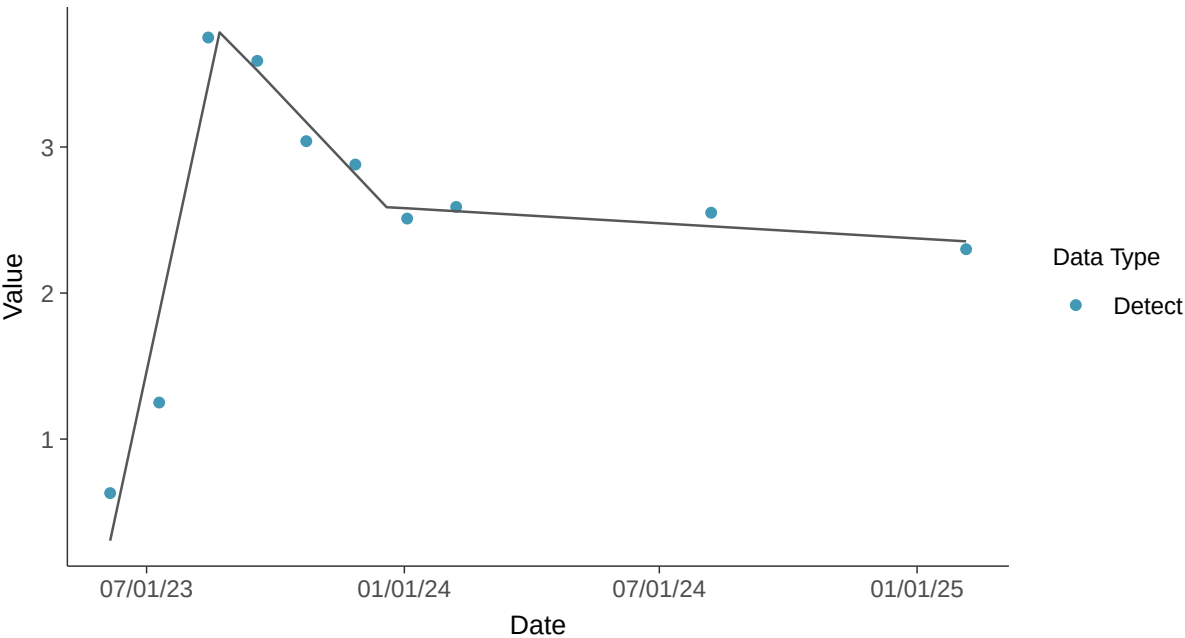
Trend Regression: Piecewise Linear-Linear

Iron, MW-100A (mg/l)



Trend Regression: Piecewise Linear-Linear-Linear

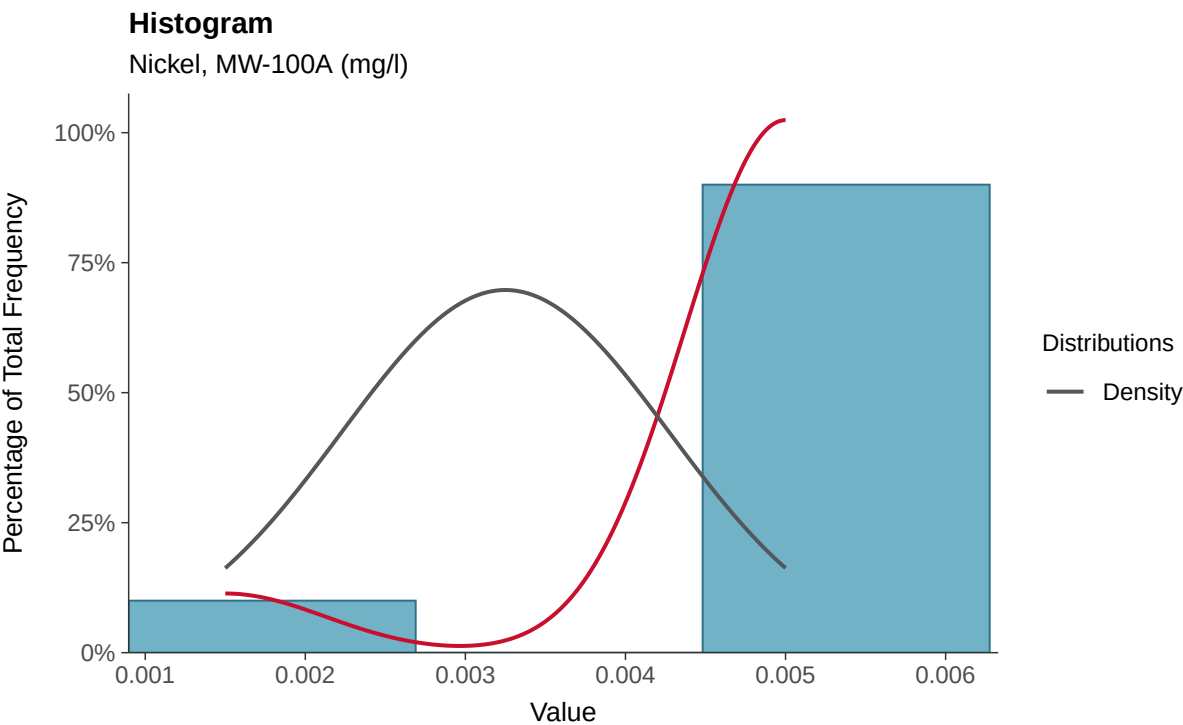
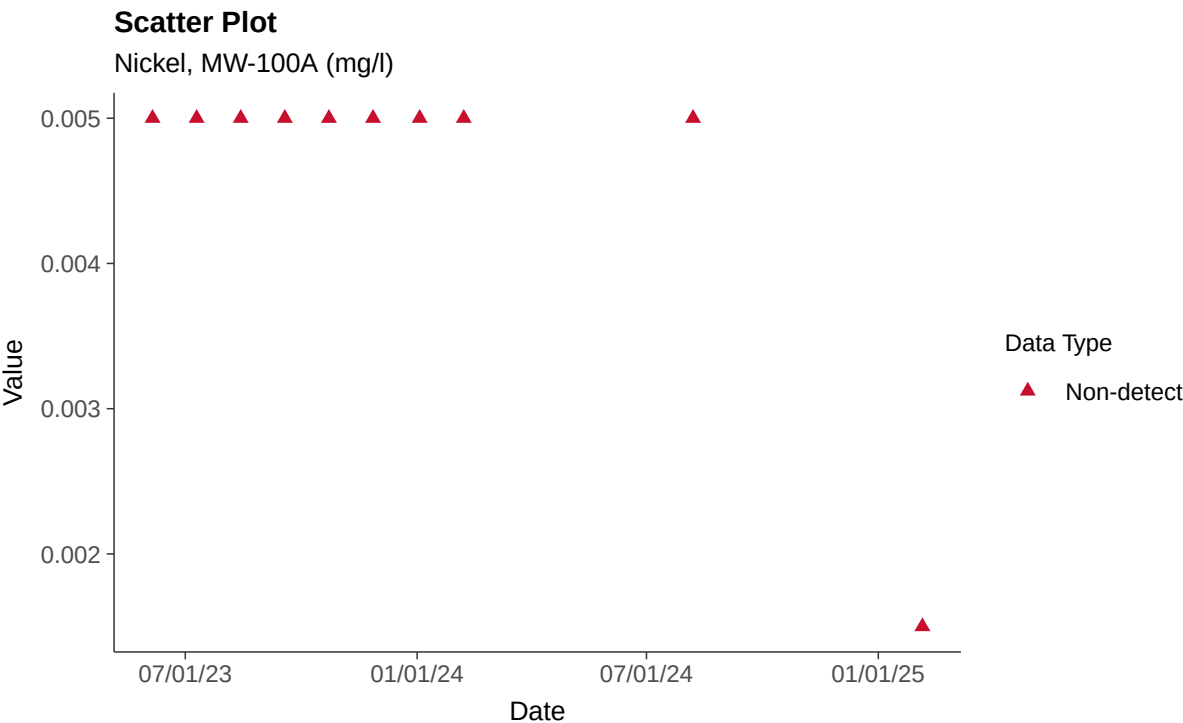
Iron, MW-100A (mg/l)

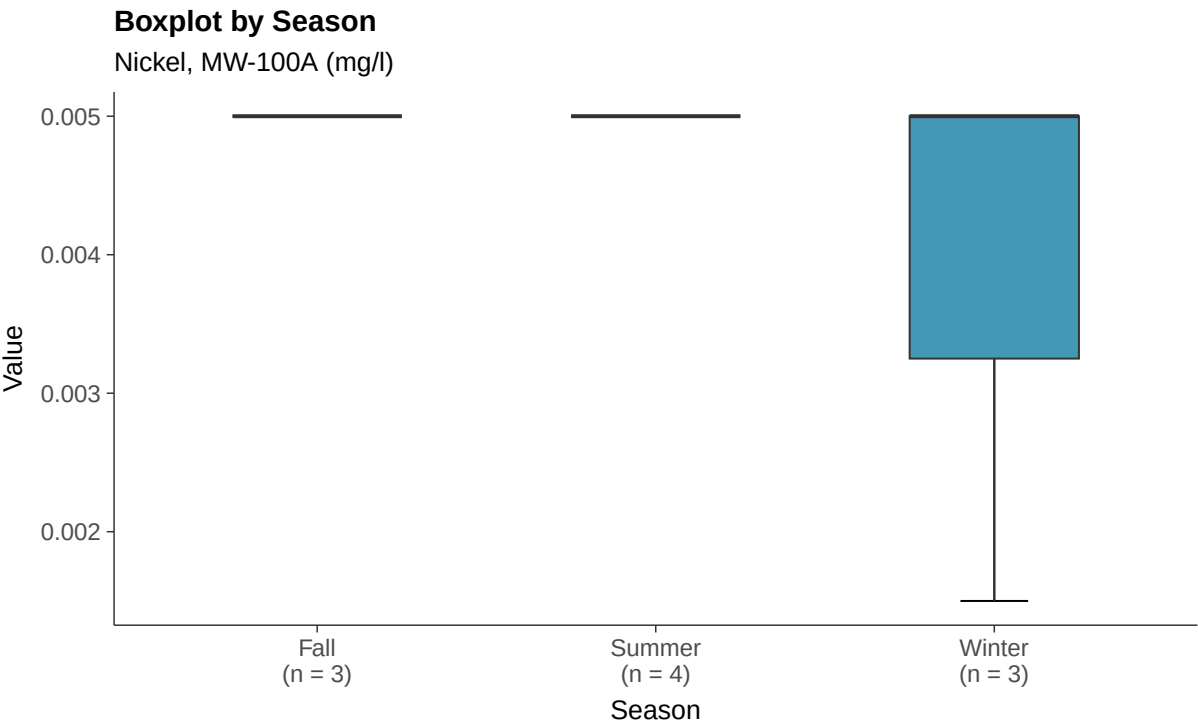
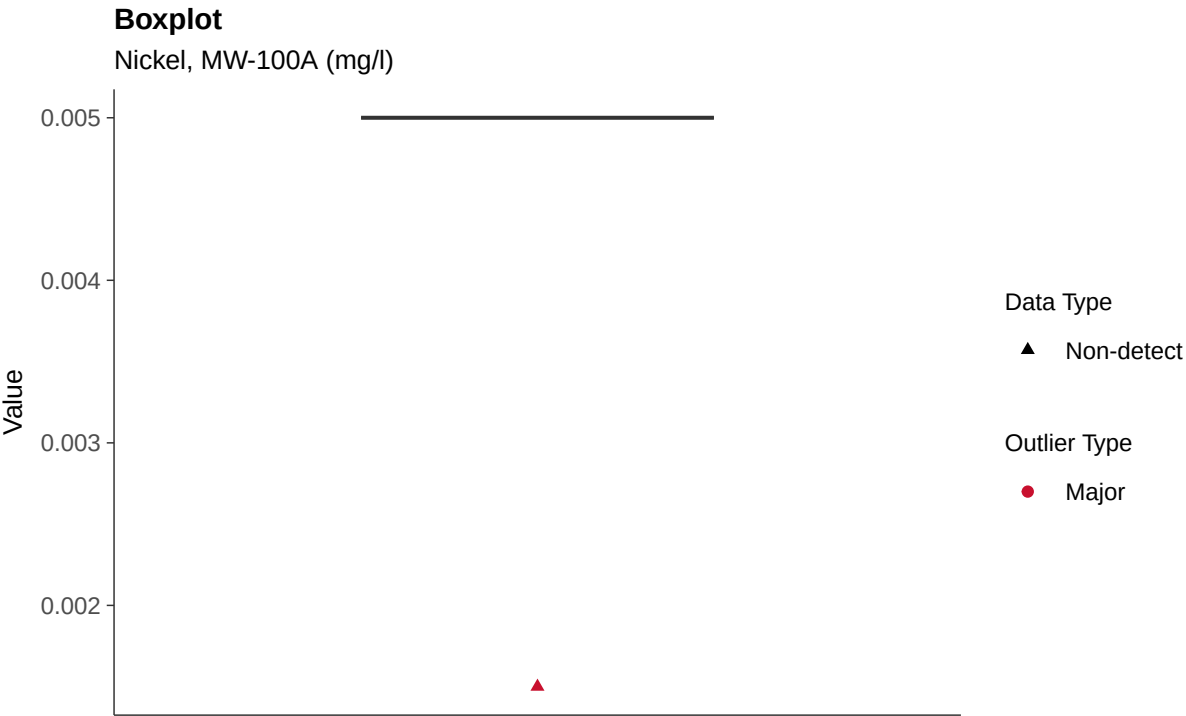




Part 115: Nickel, MW-100A

ID: 30_5_119

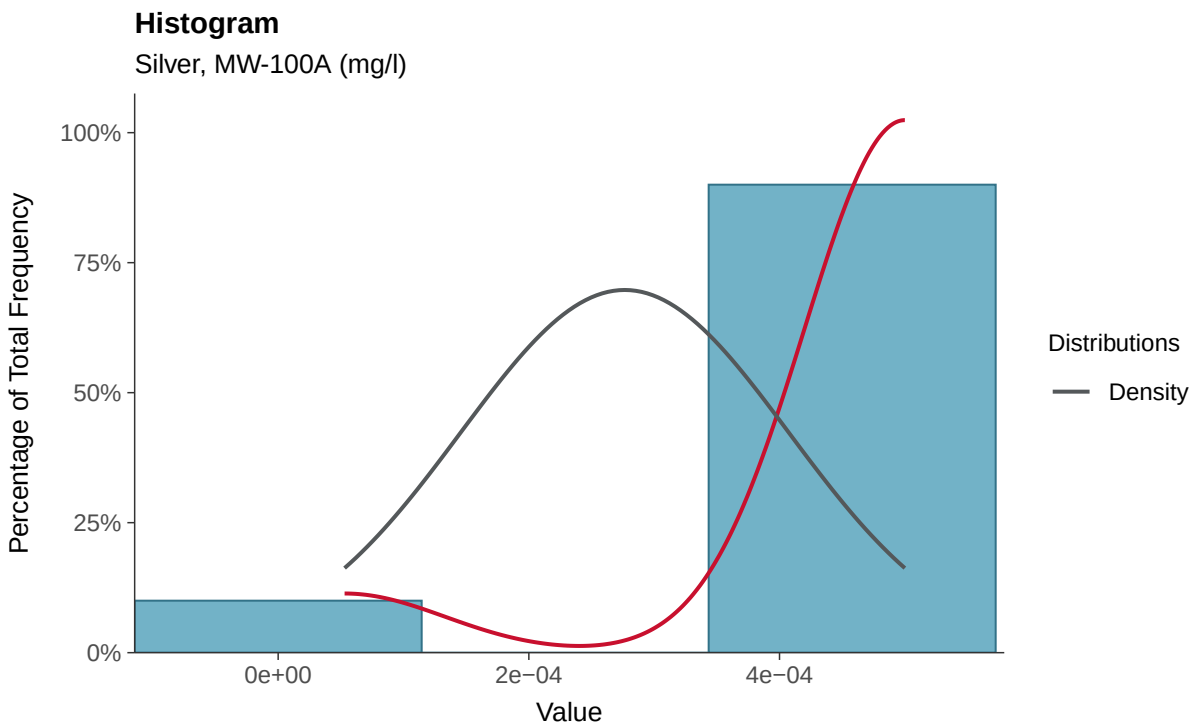
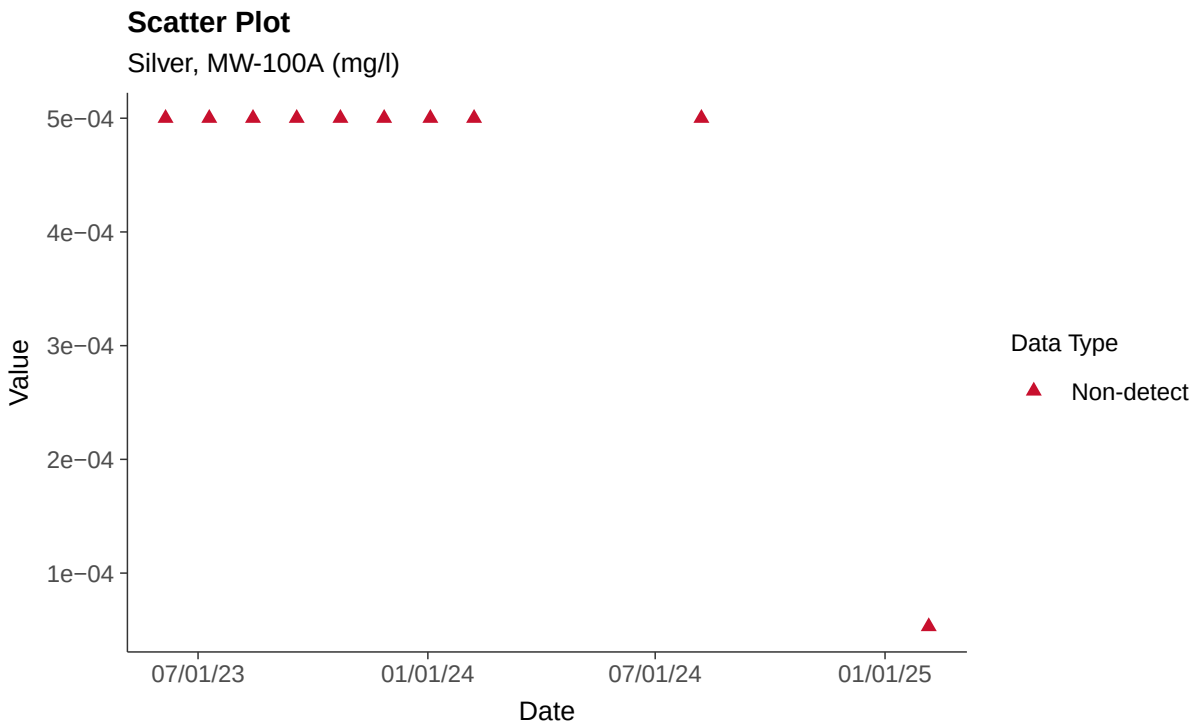


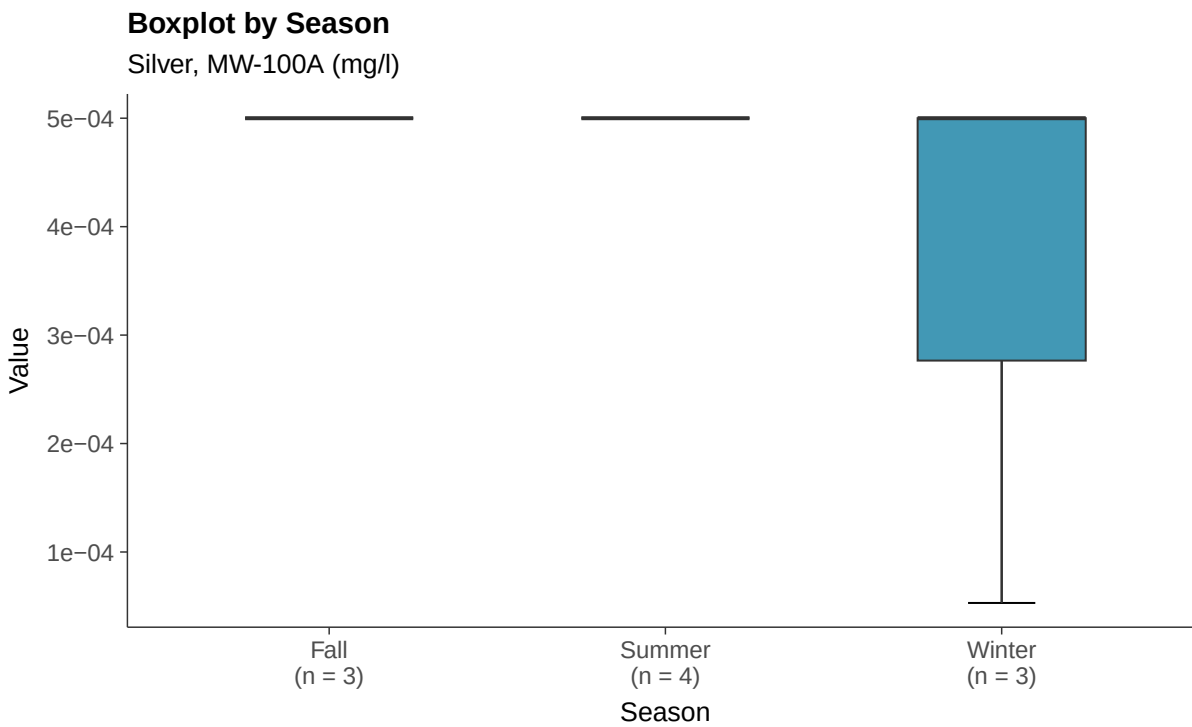
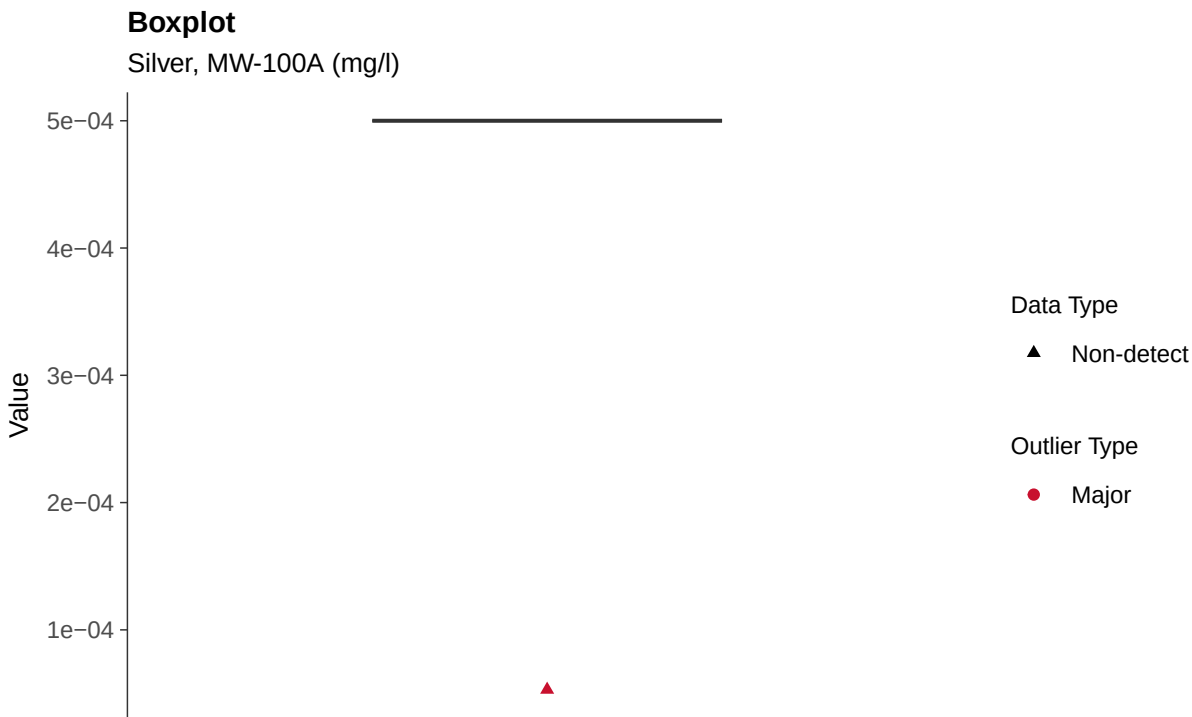




Part 115: Silver, MW-100A

ID: 30_5_123

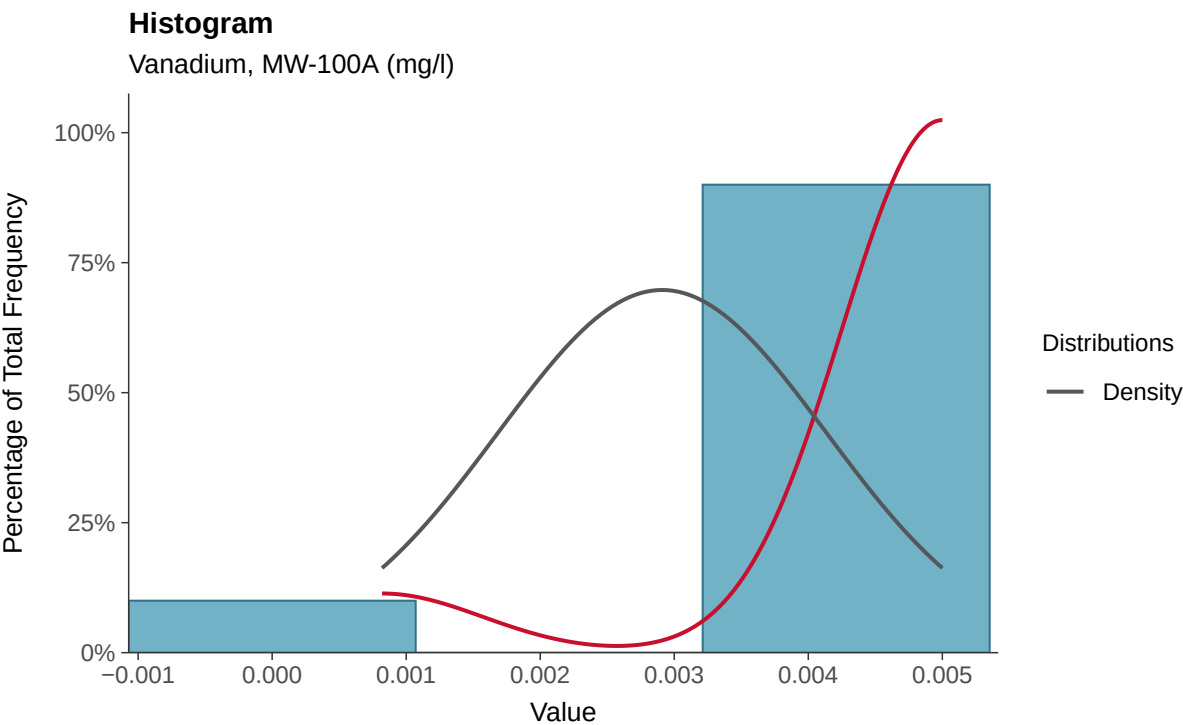
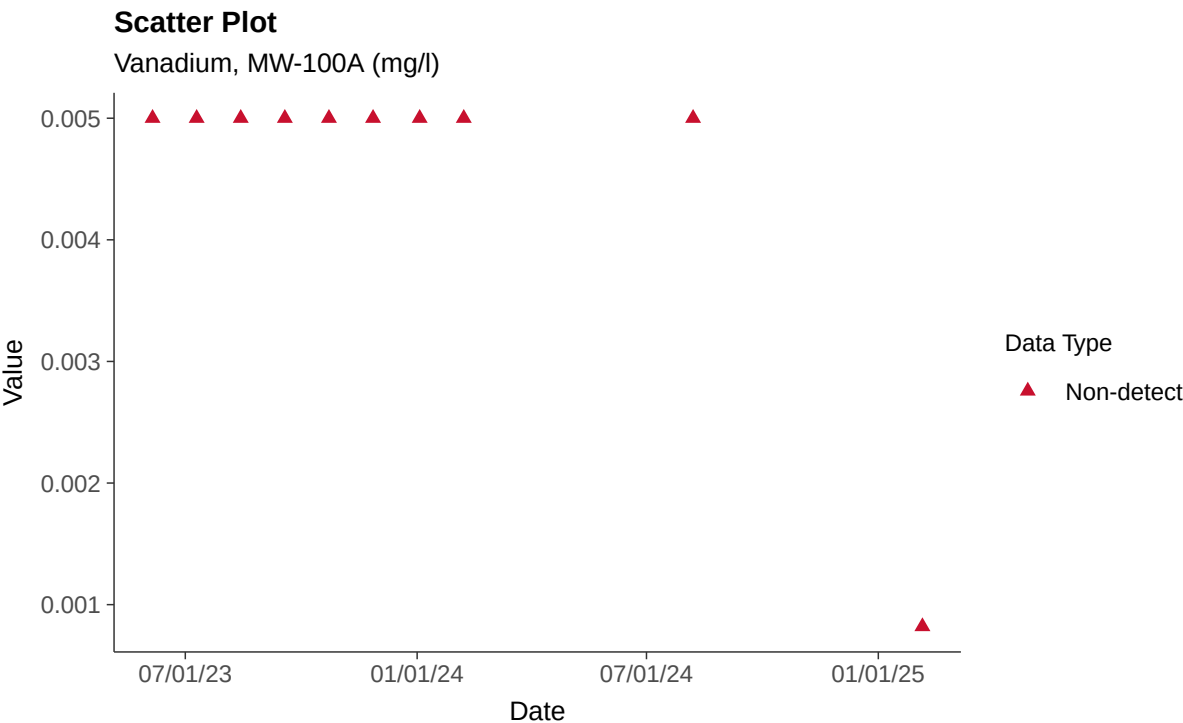


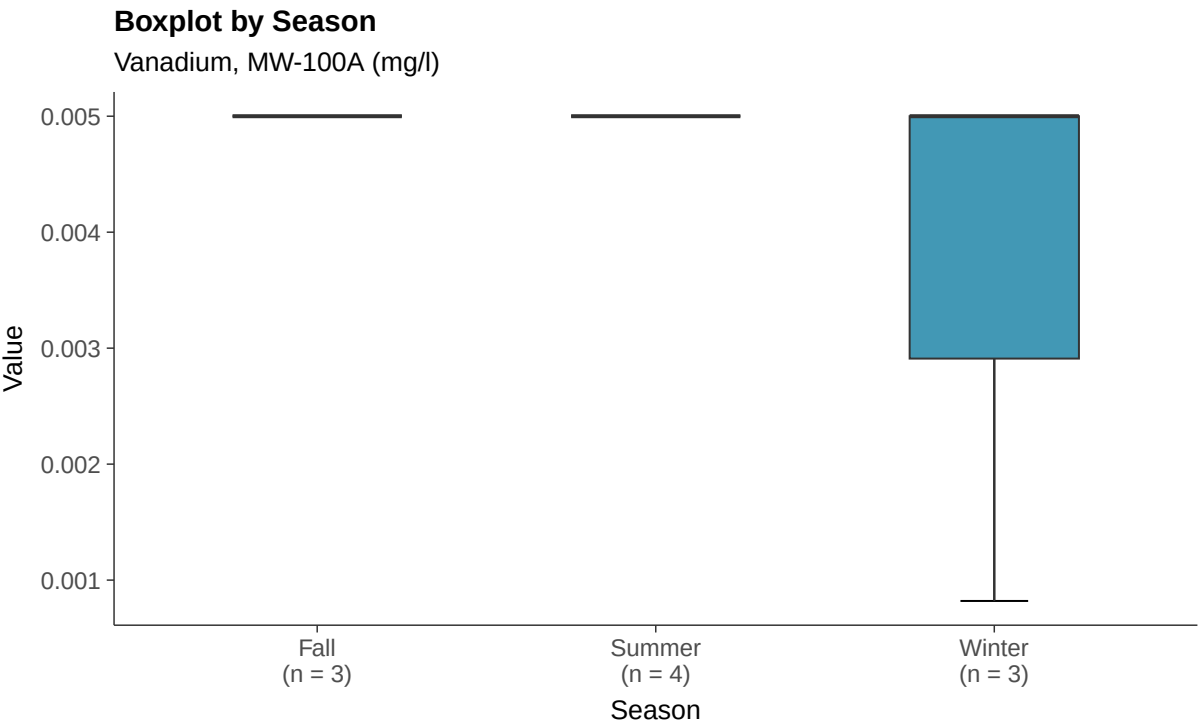
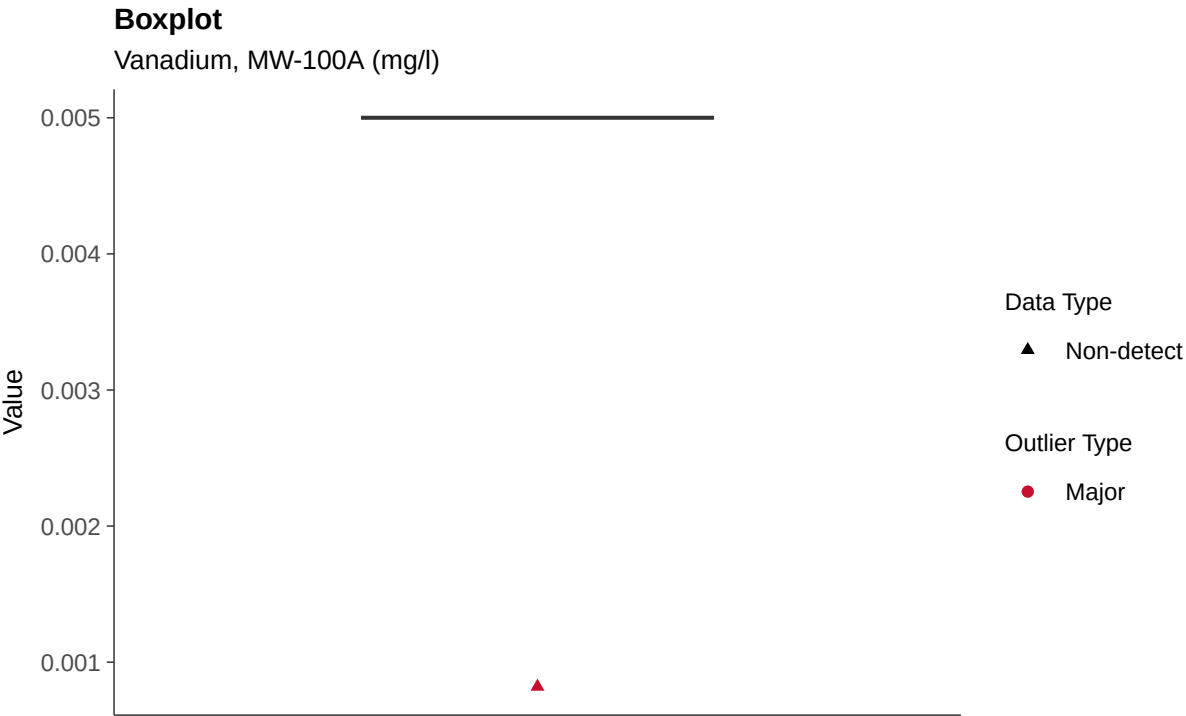




Part 115: Vanadium, MW-100A

ID: 30_5_128

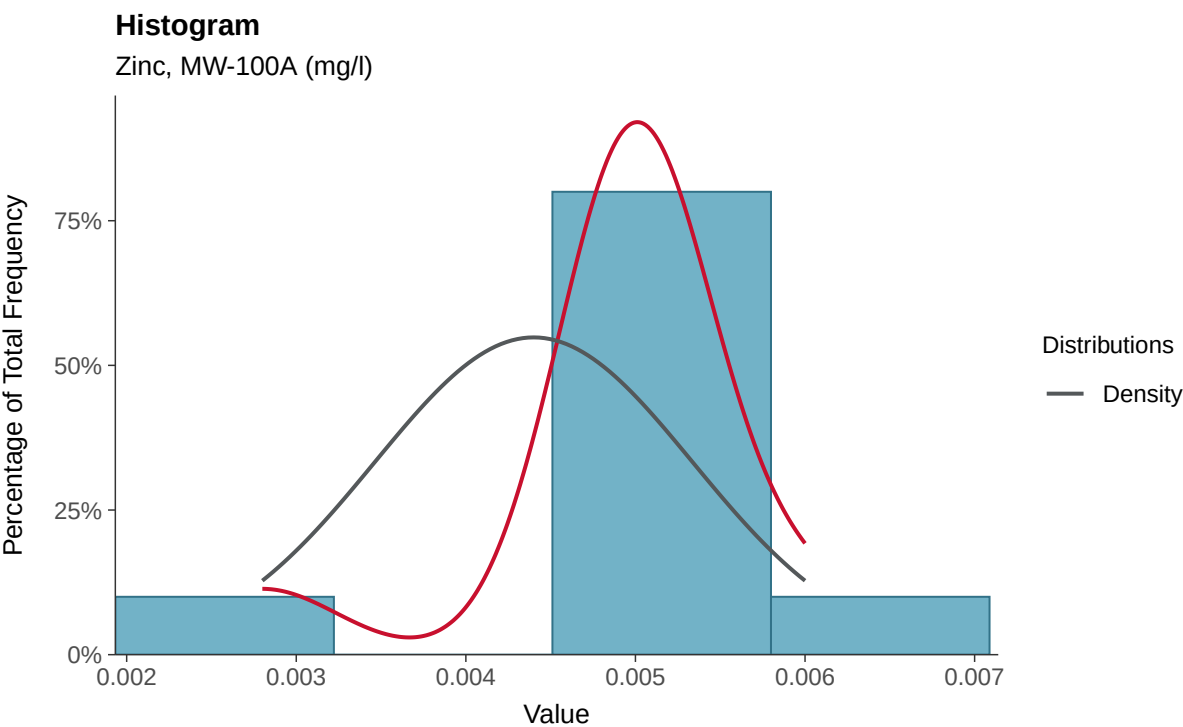
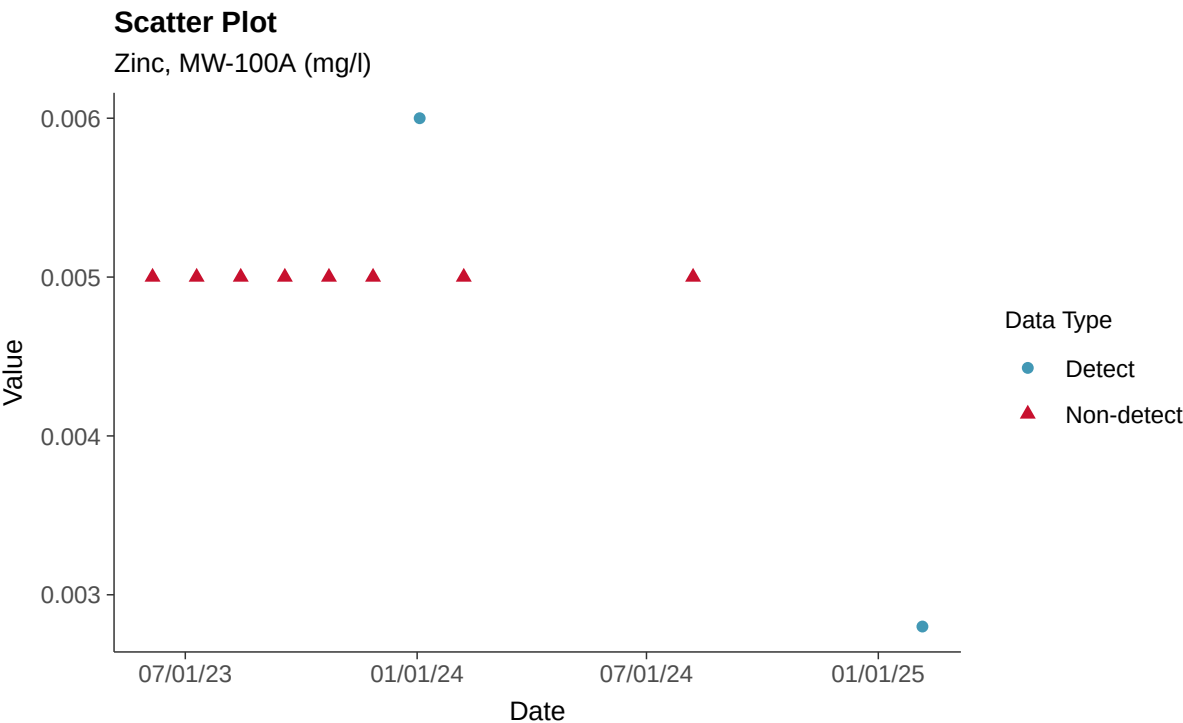


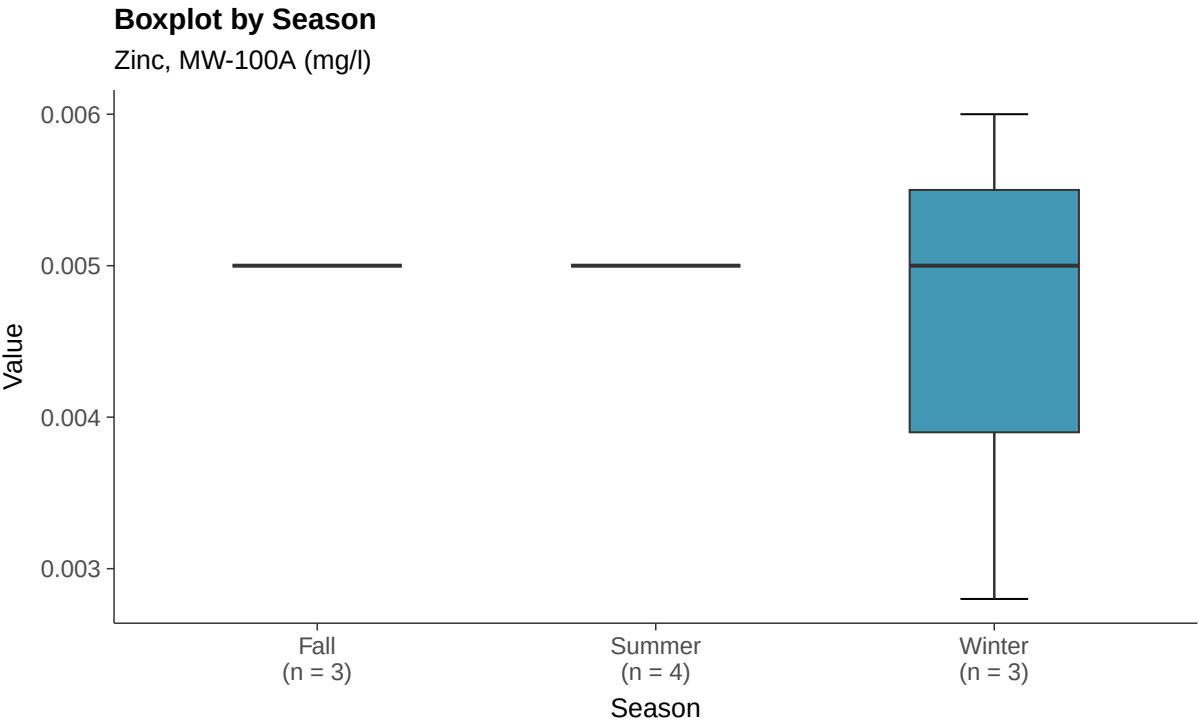
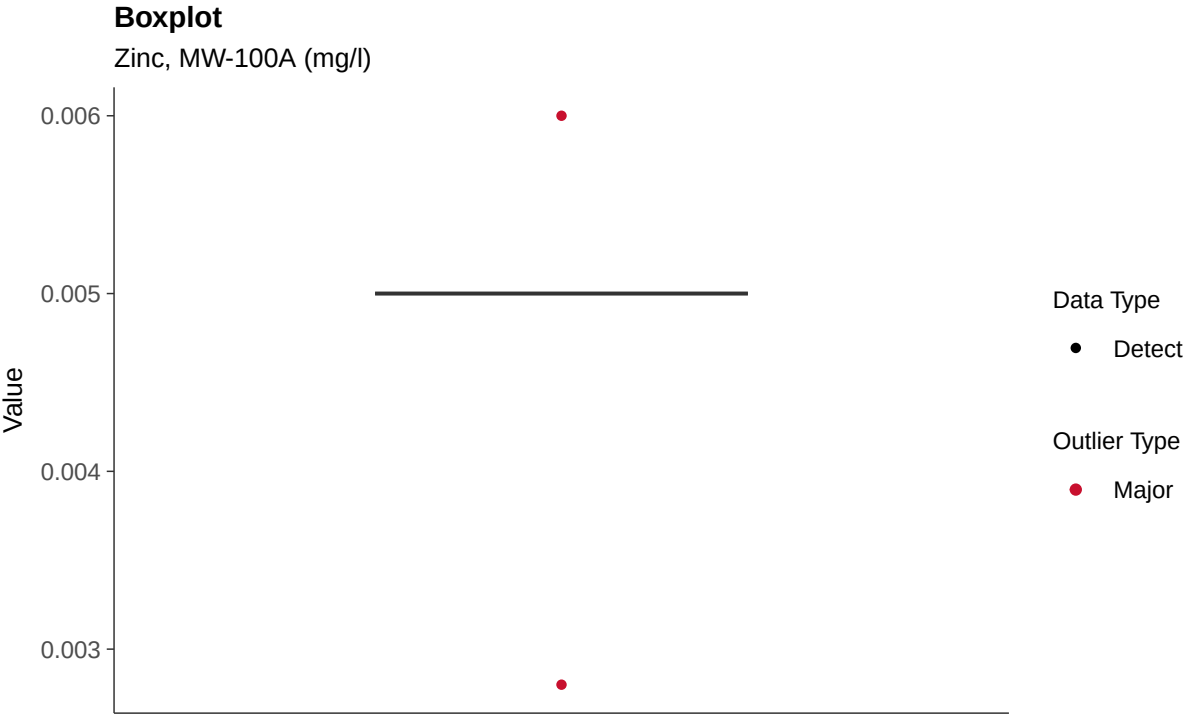


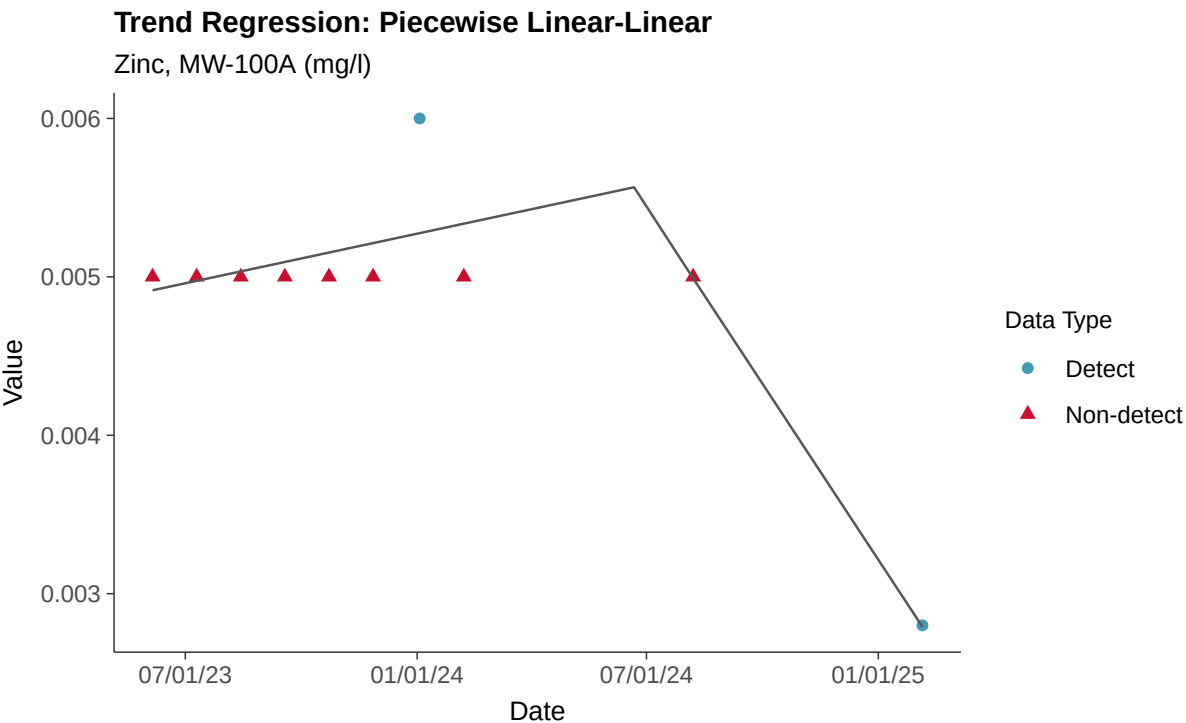
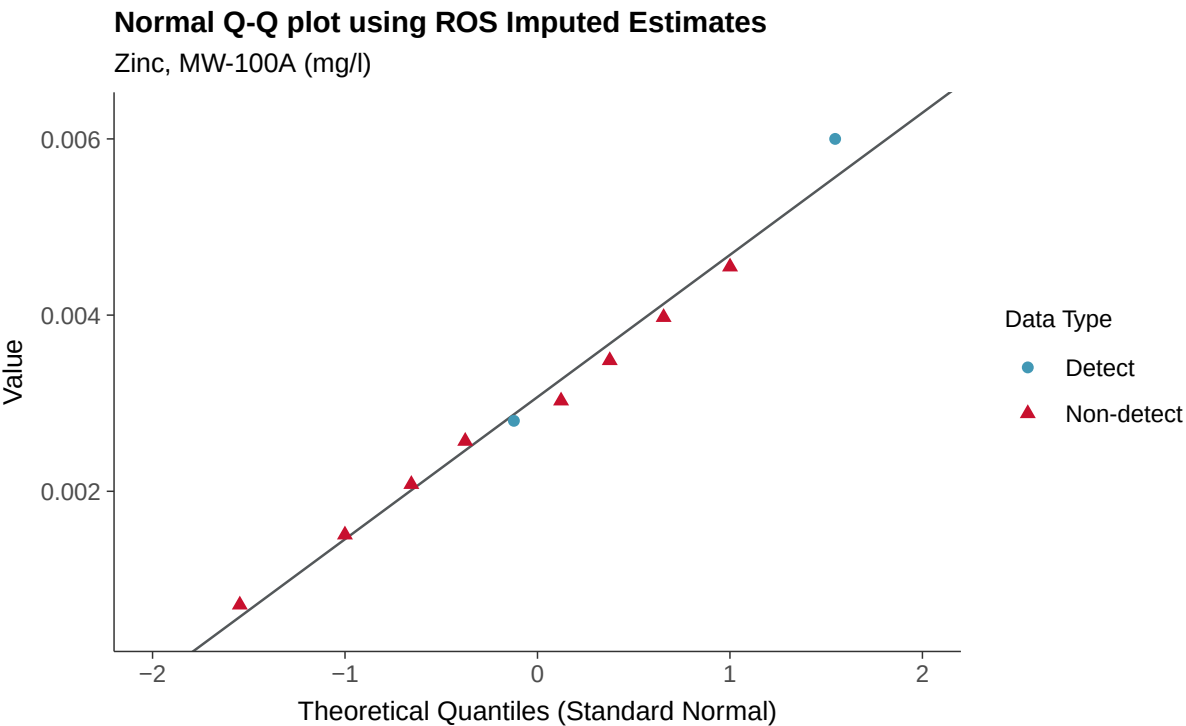


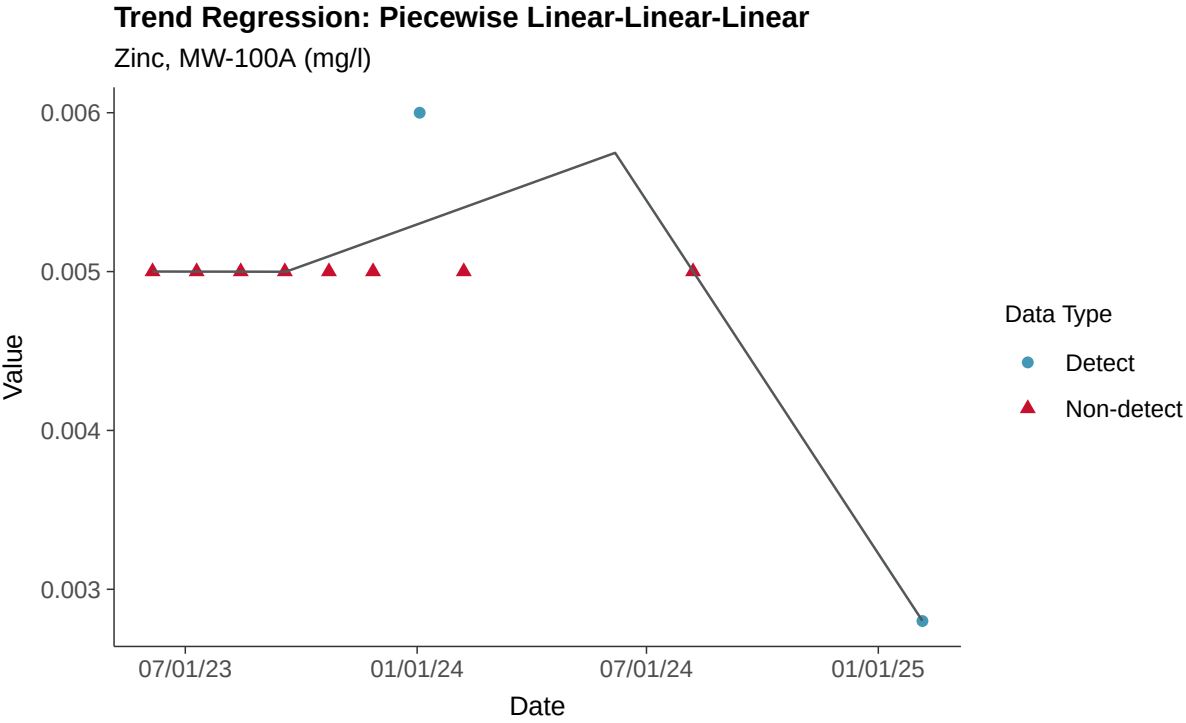
Part 115: Zinc, MW-100A

ID: 30_5_129





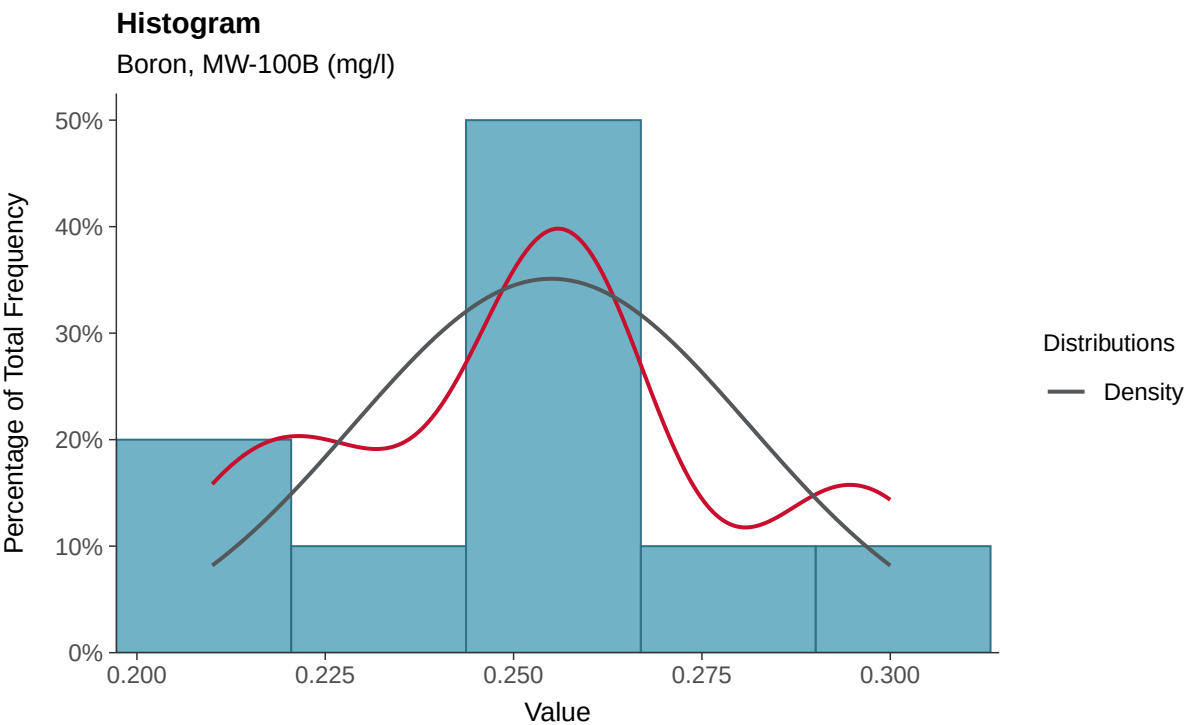
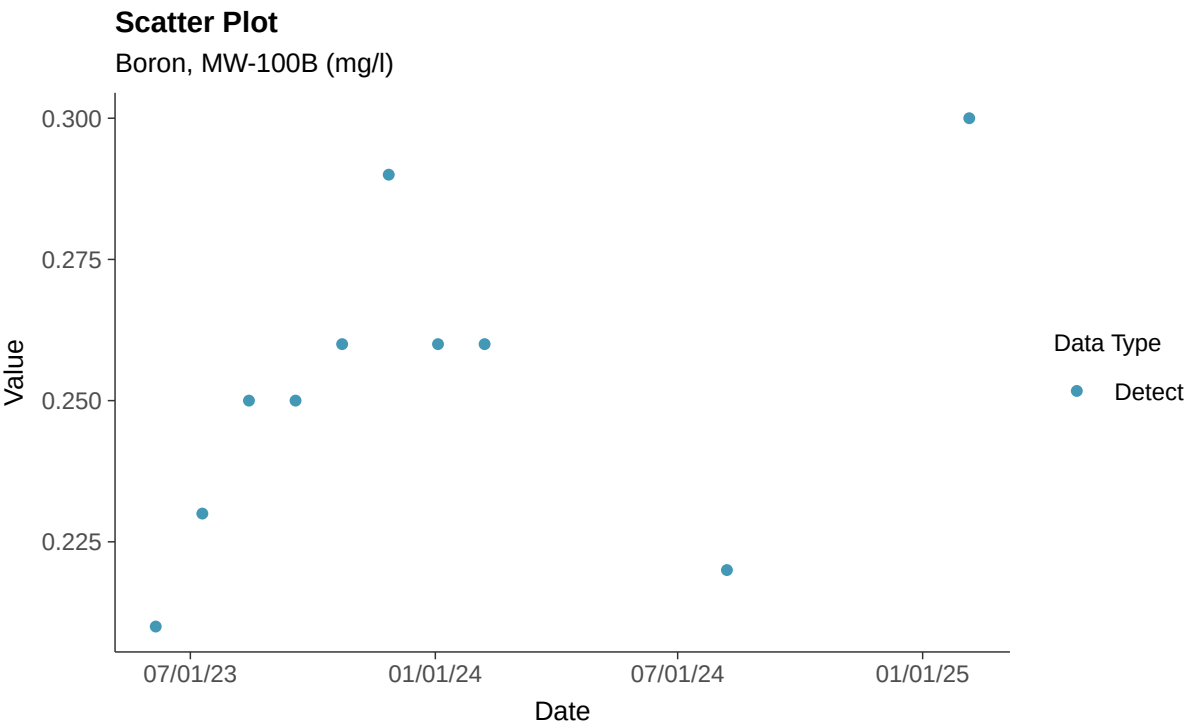


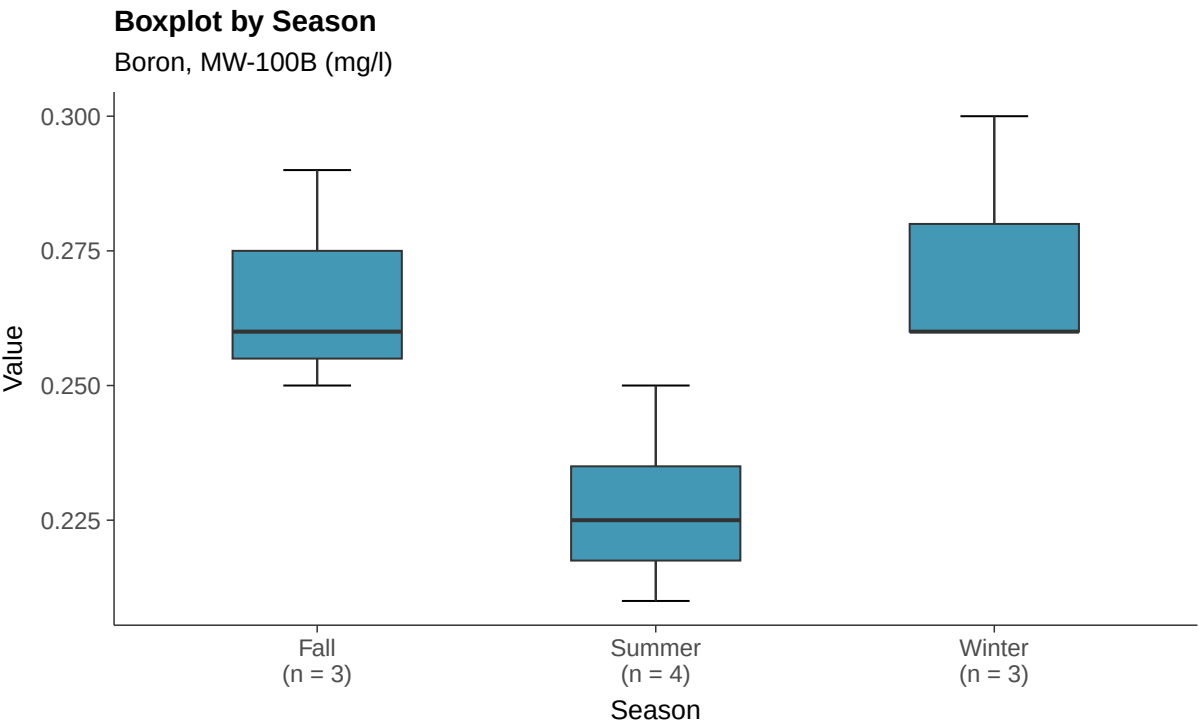
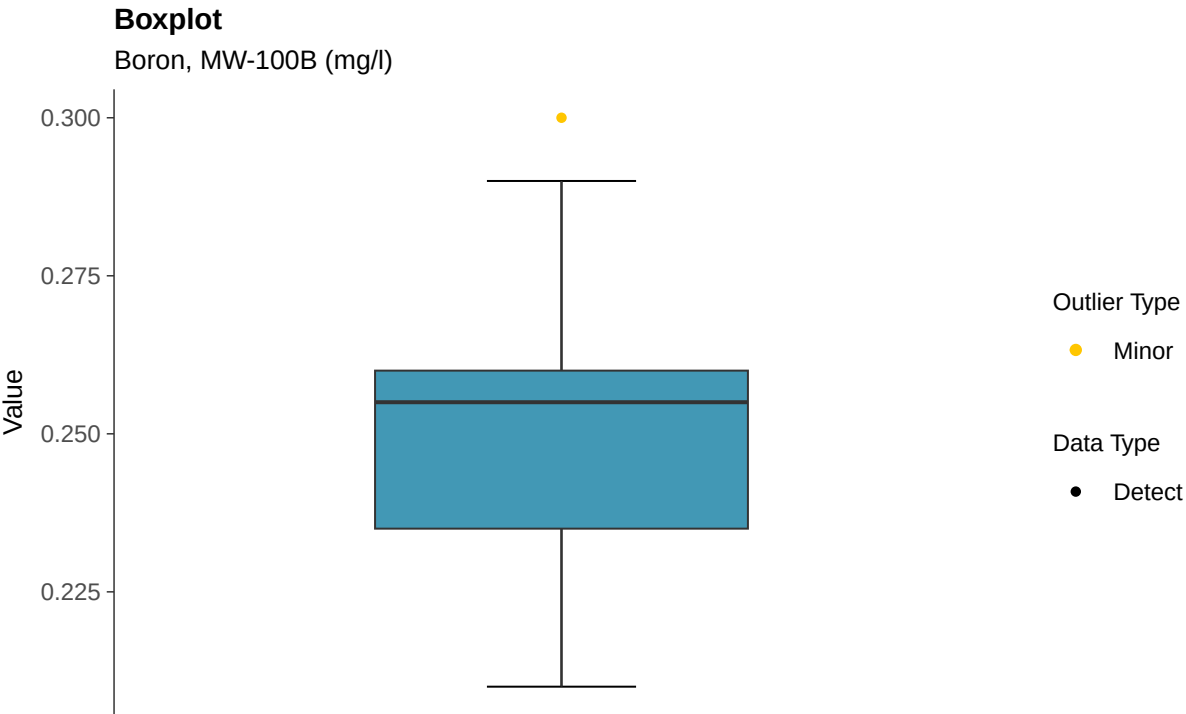


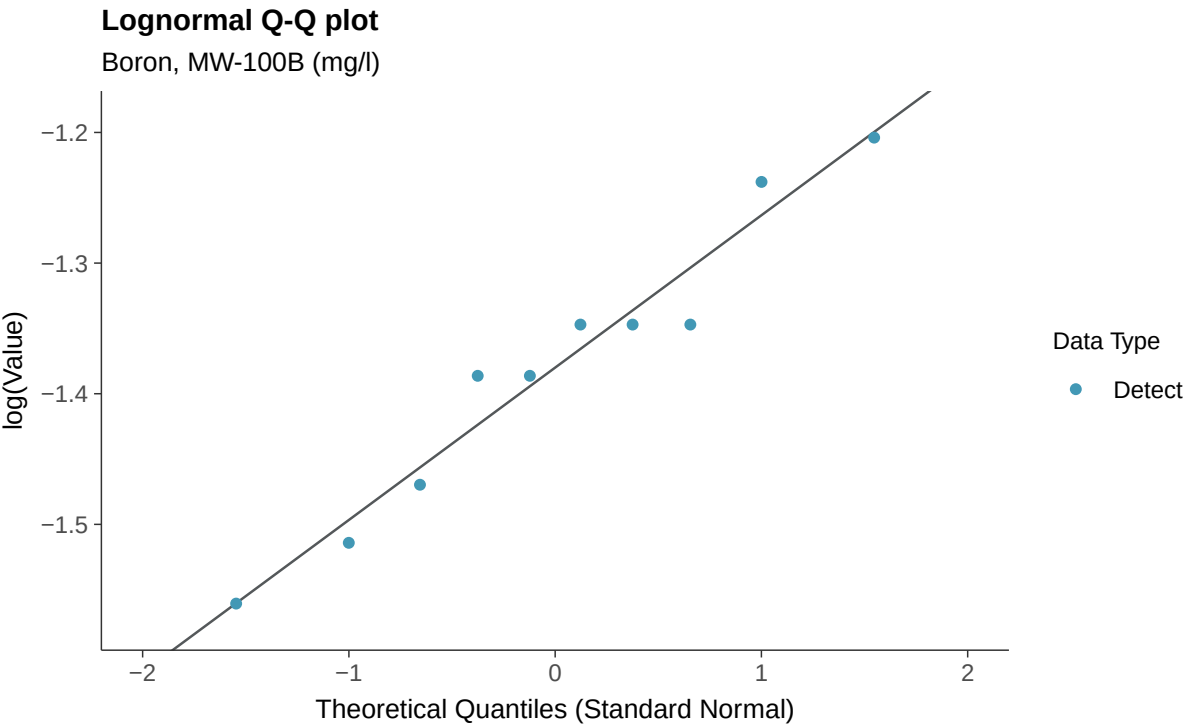
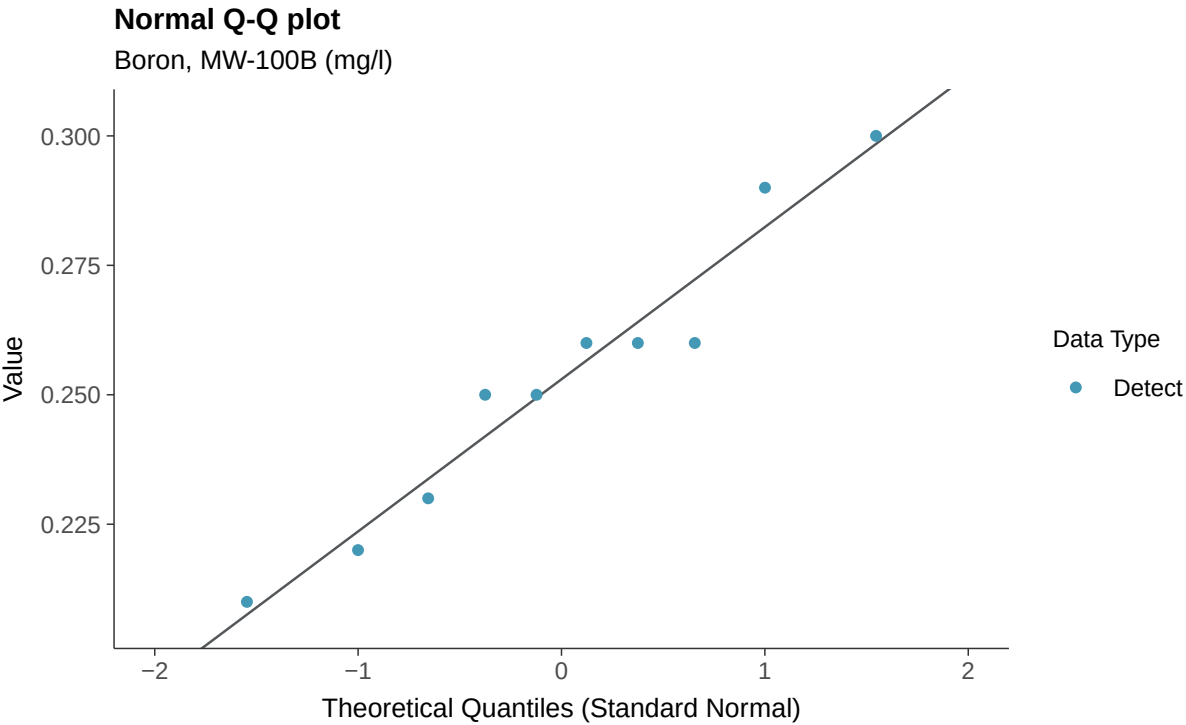


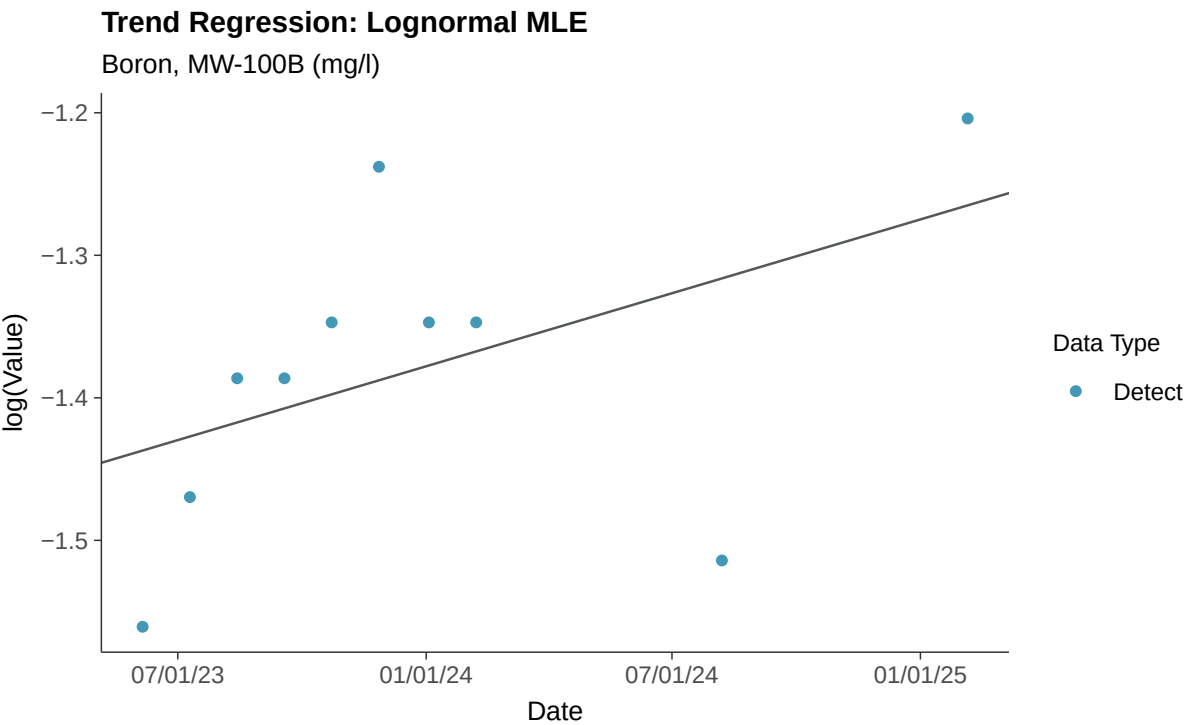
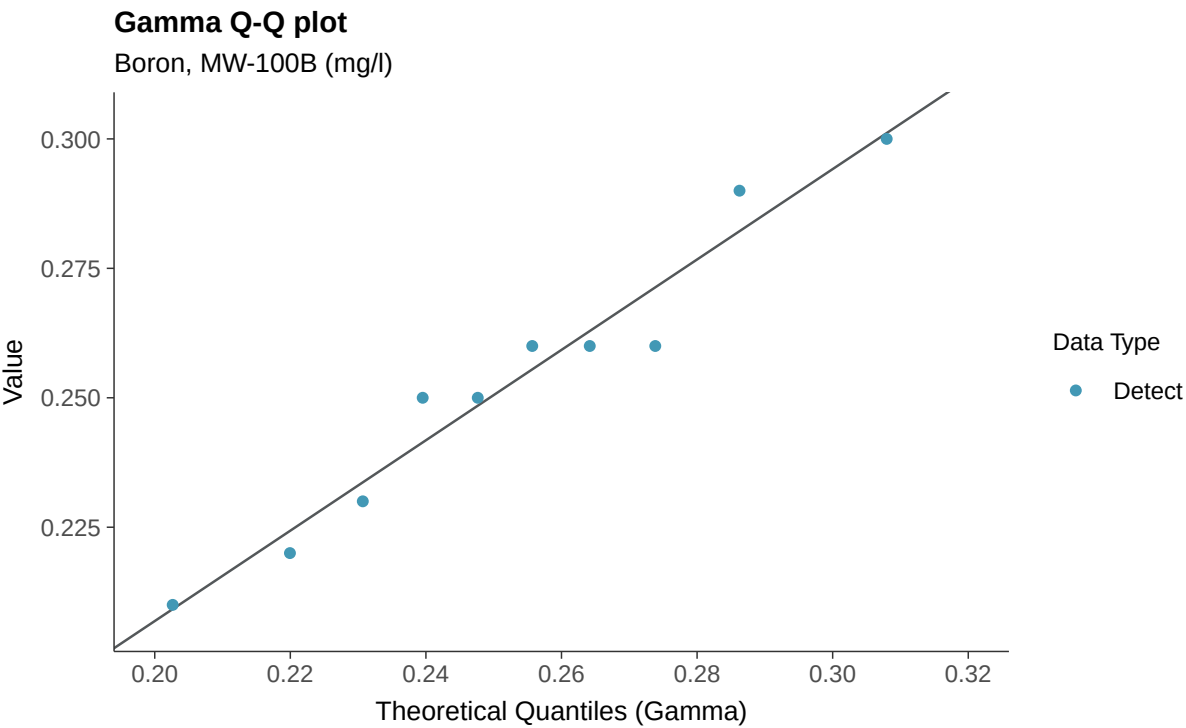
Appendix III: Boron, MW-100B

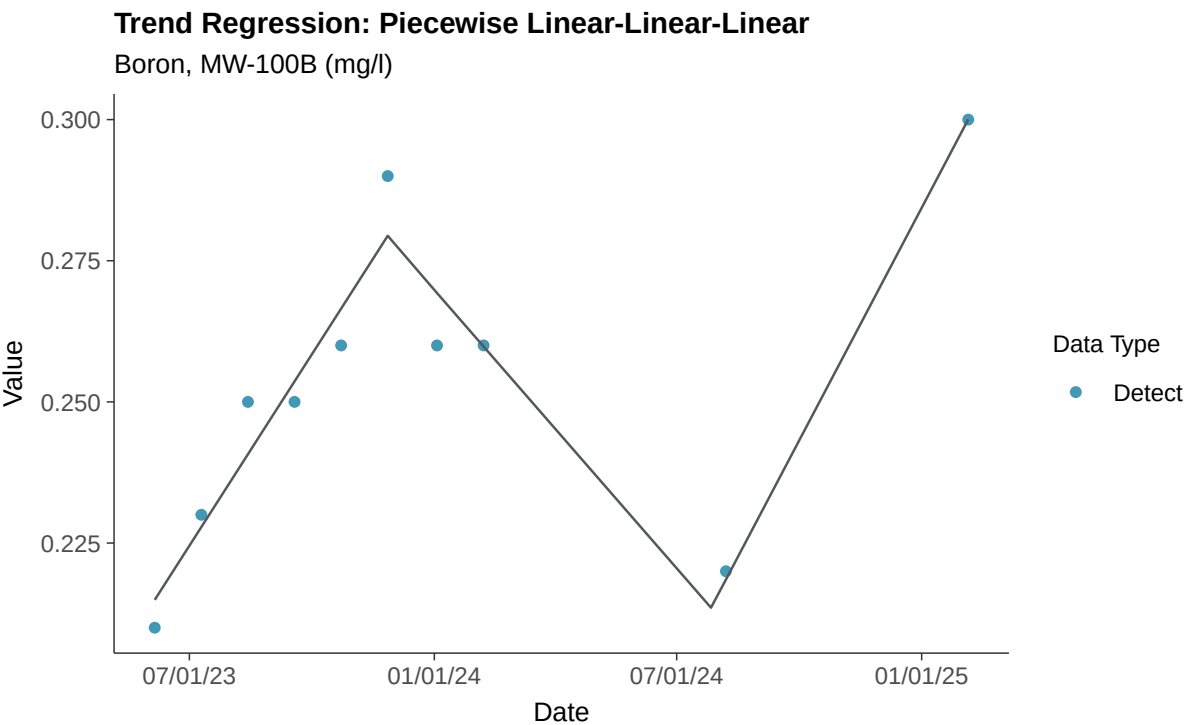
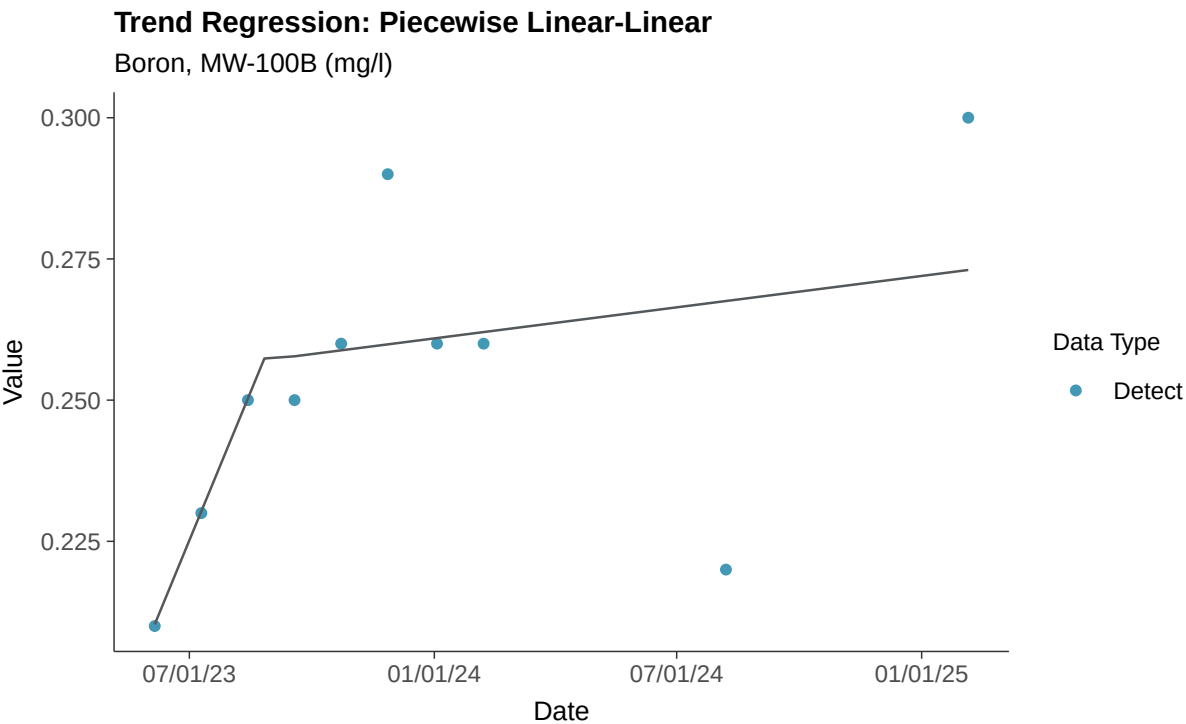
ID: 31_2_105







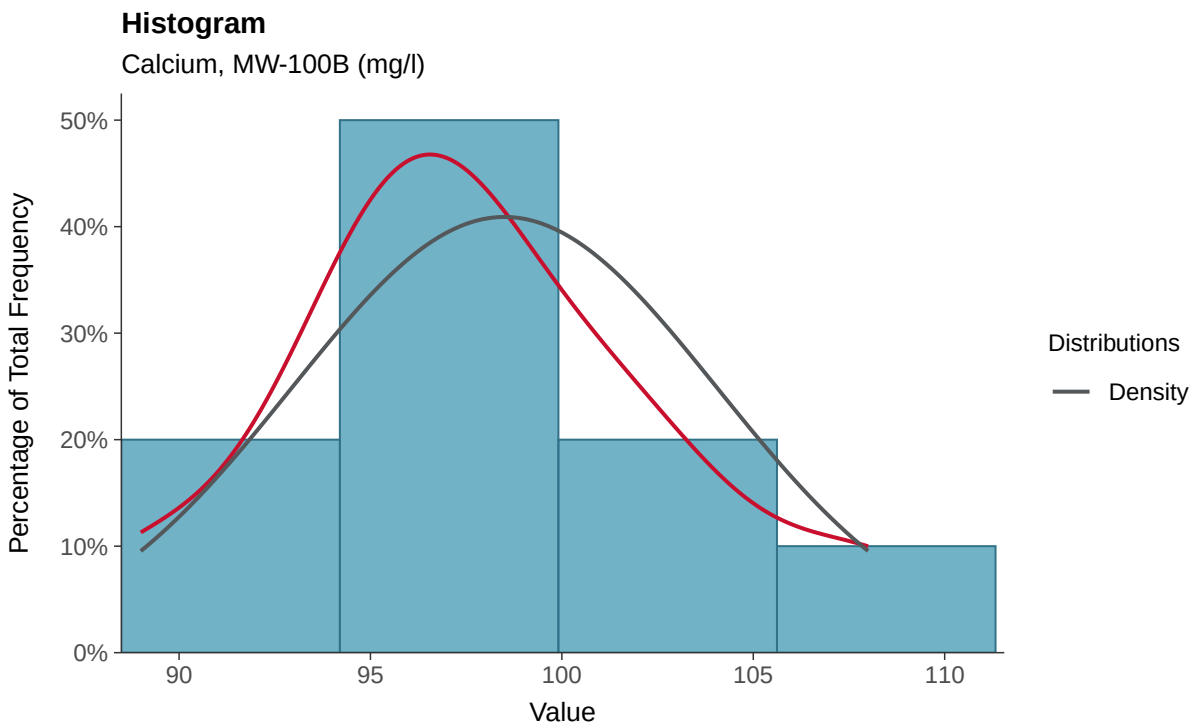
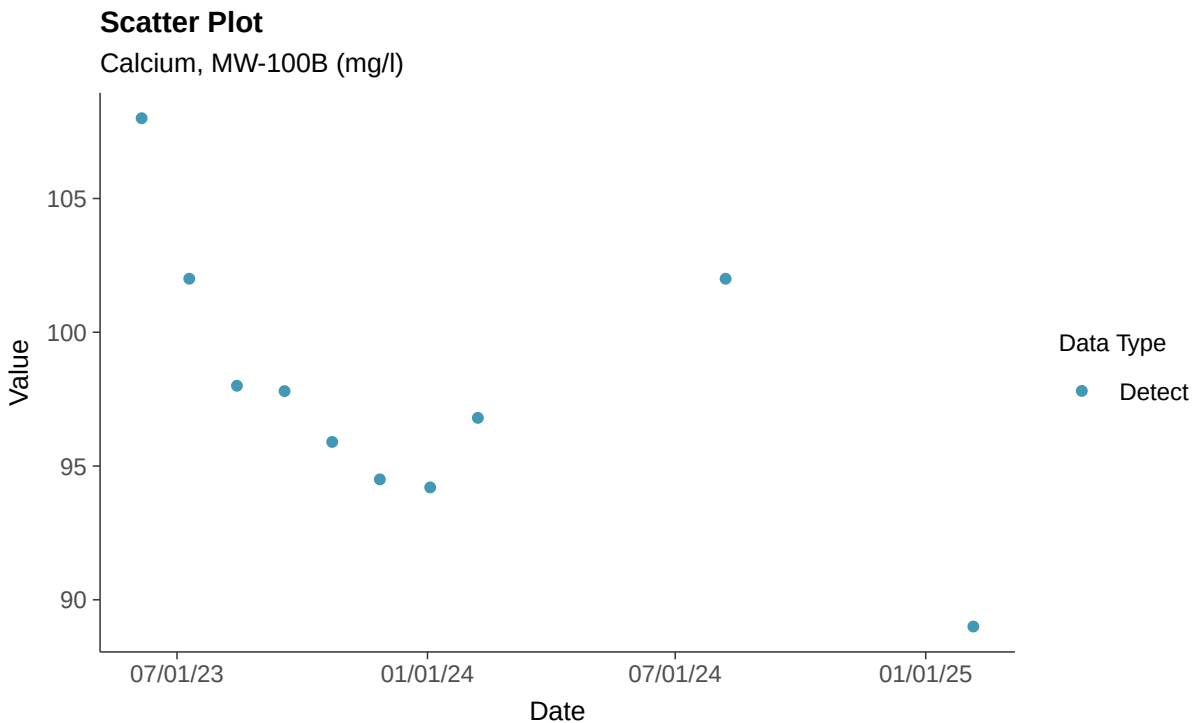


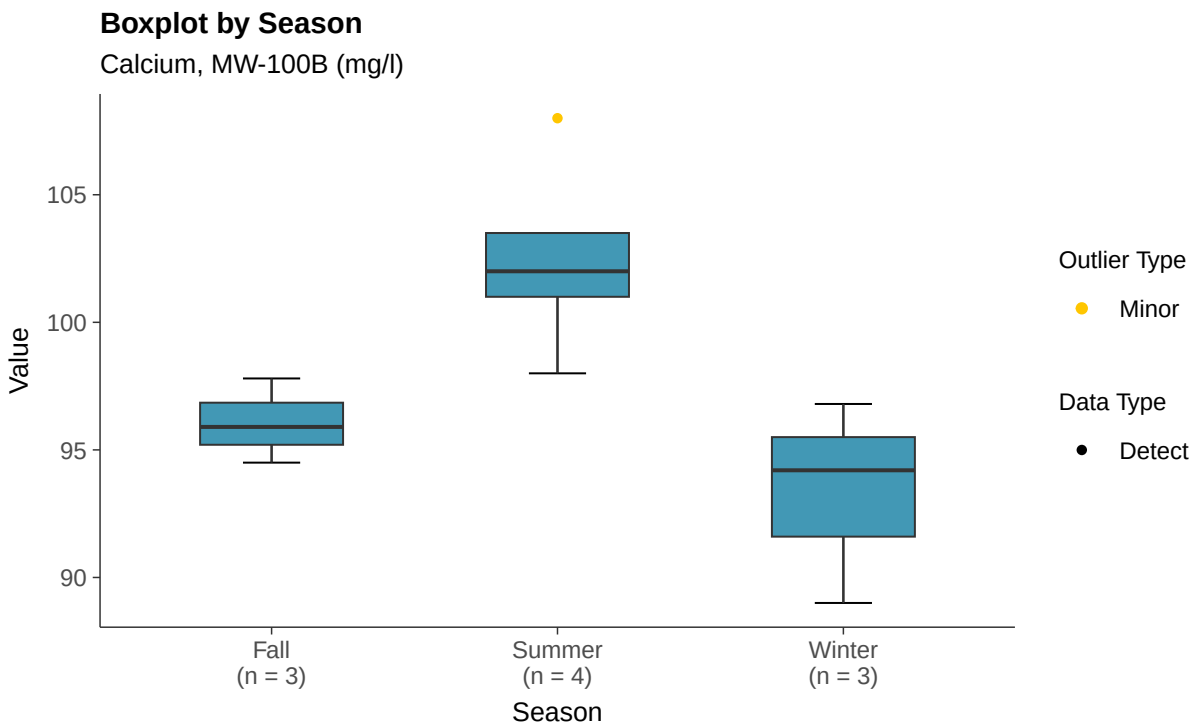
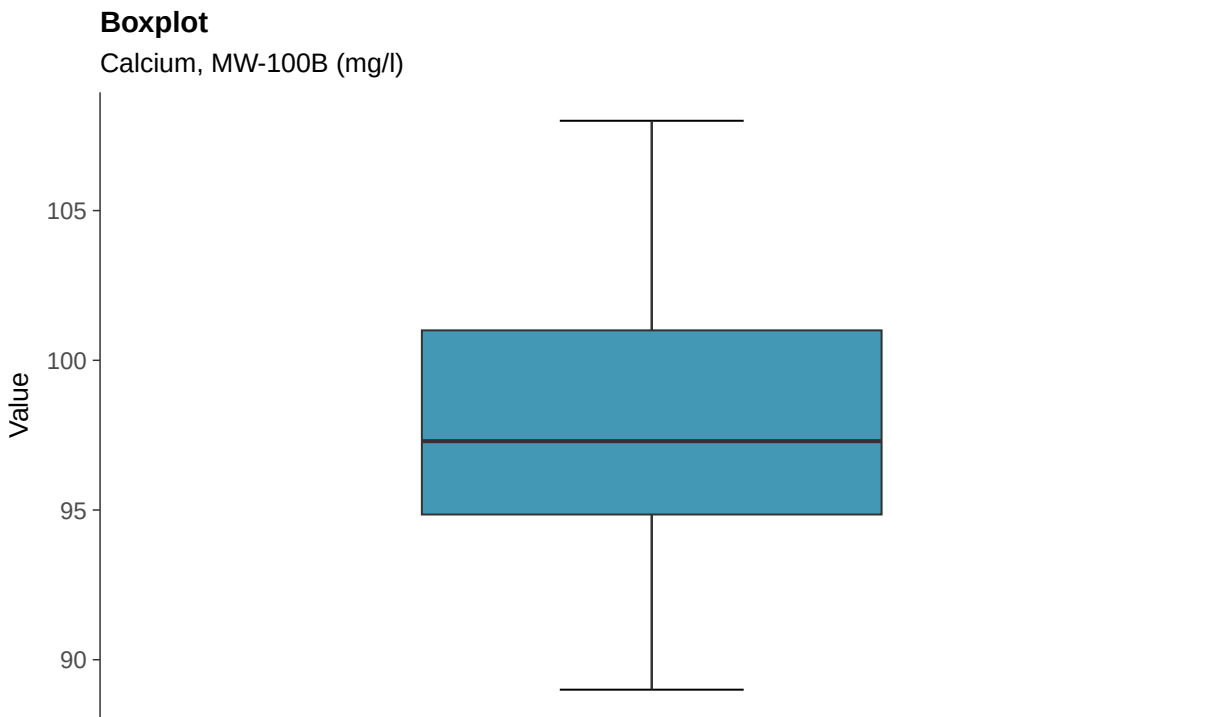


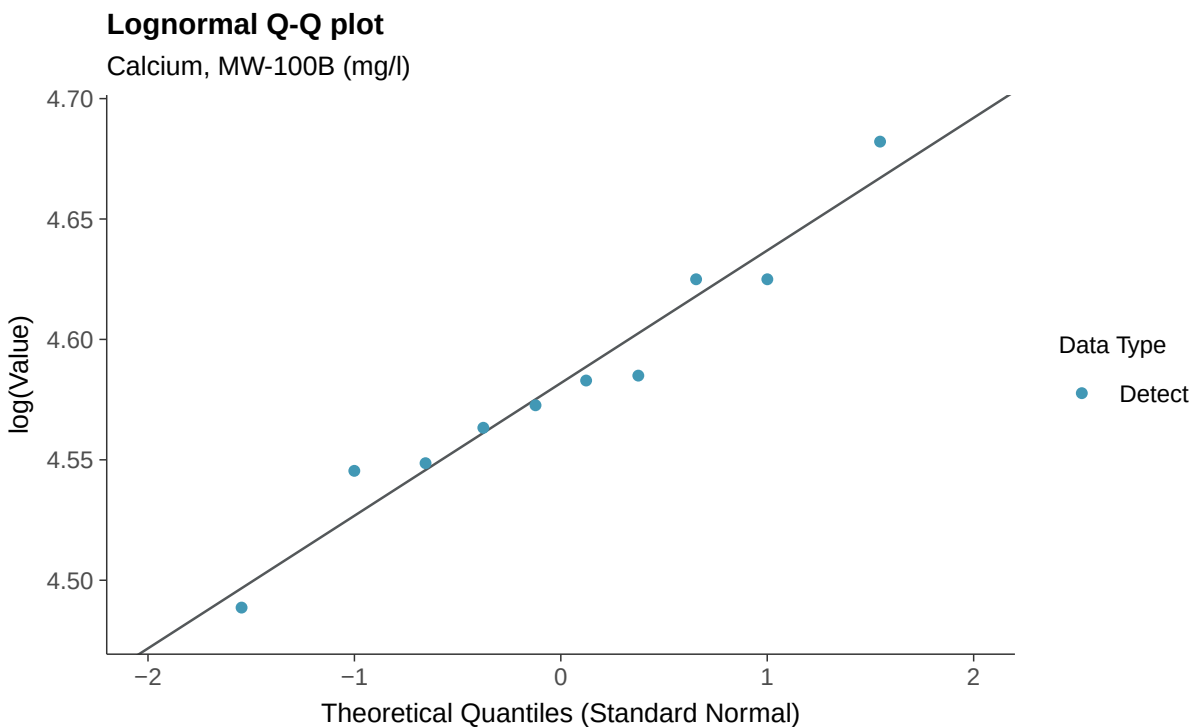
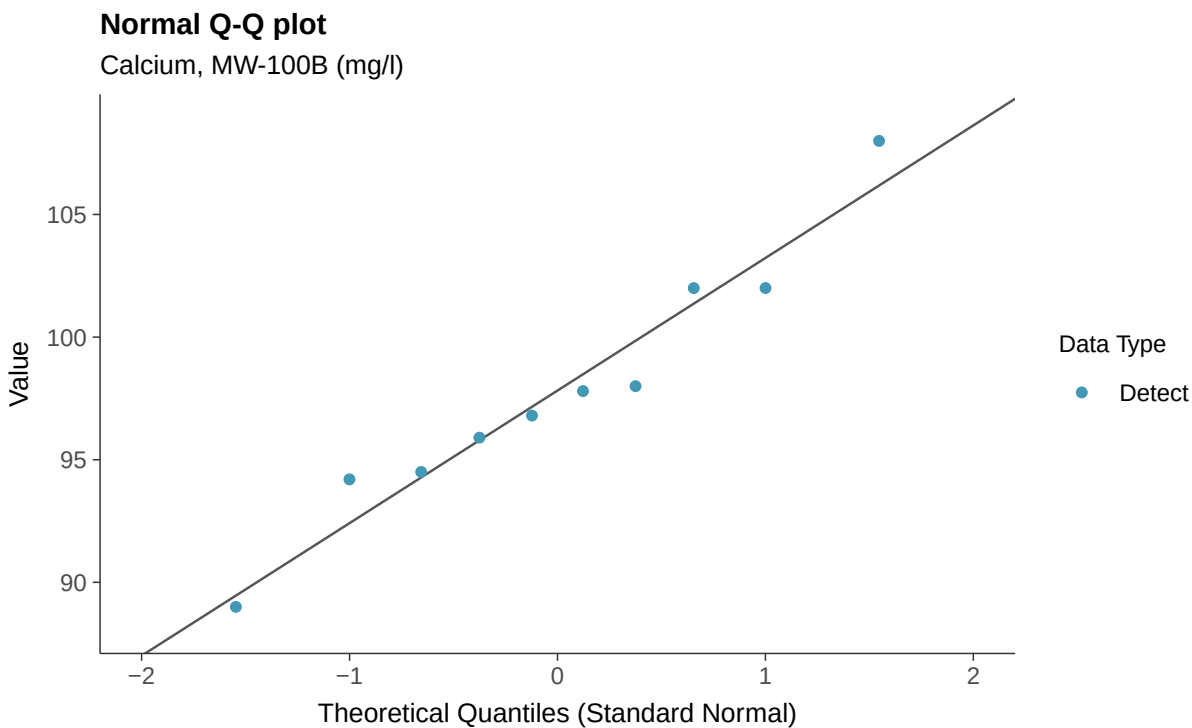


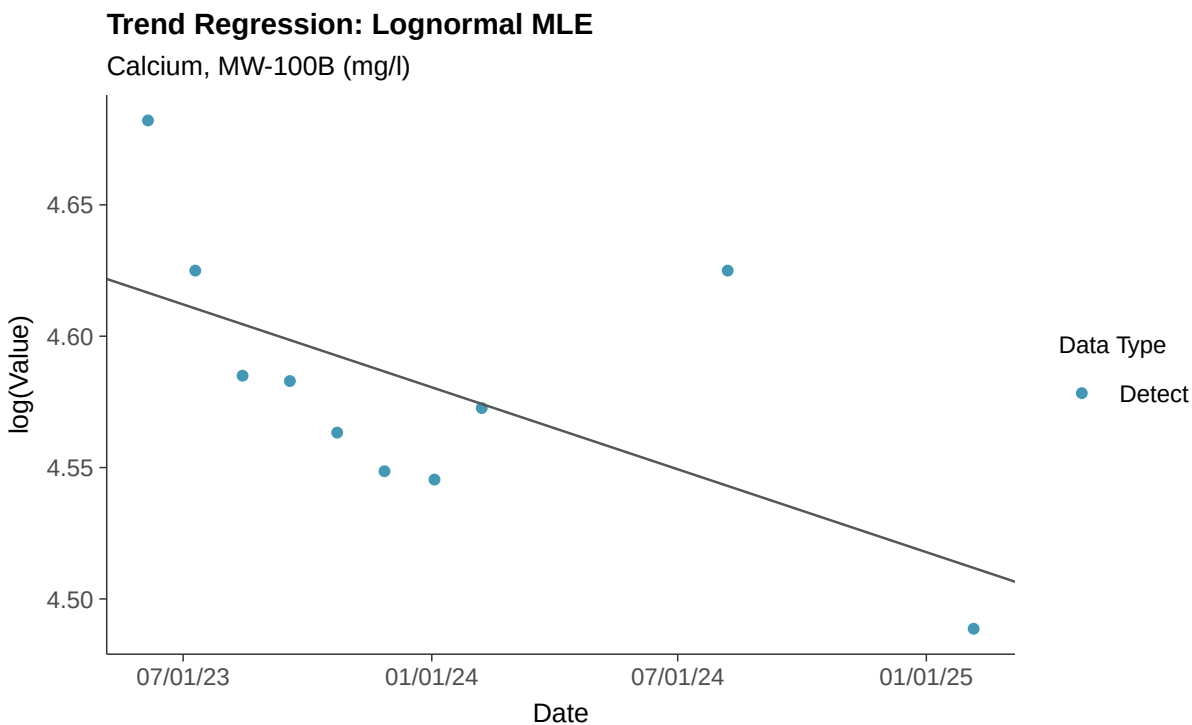
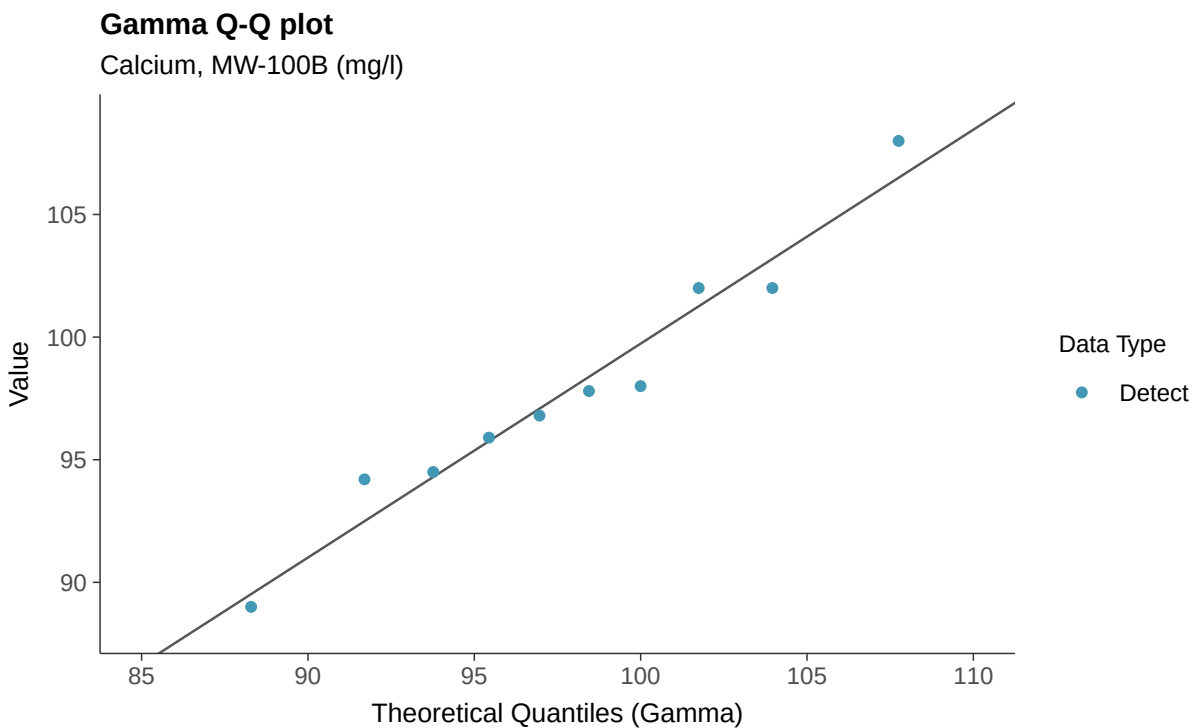
Appendix III: Calcium, MW-100B

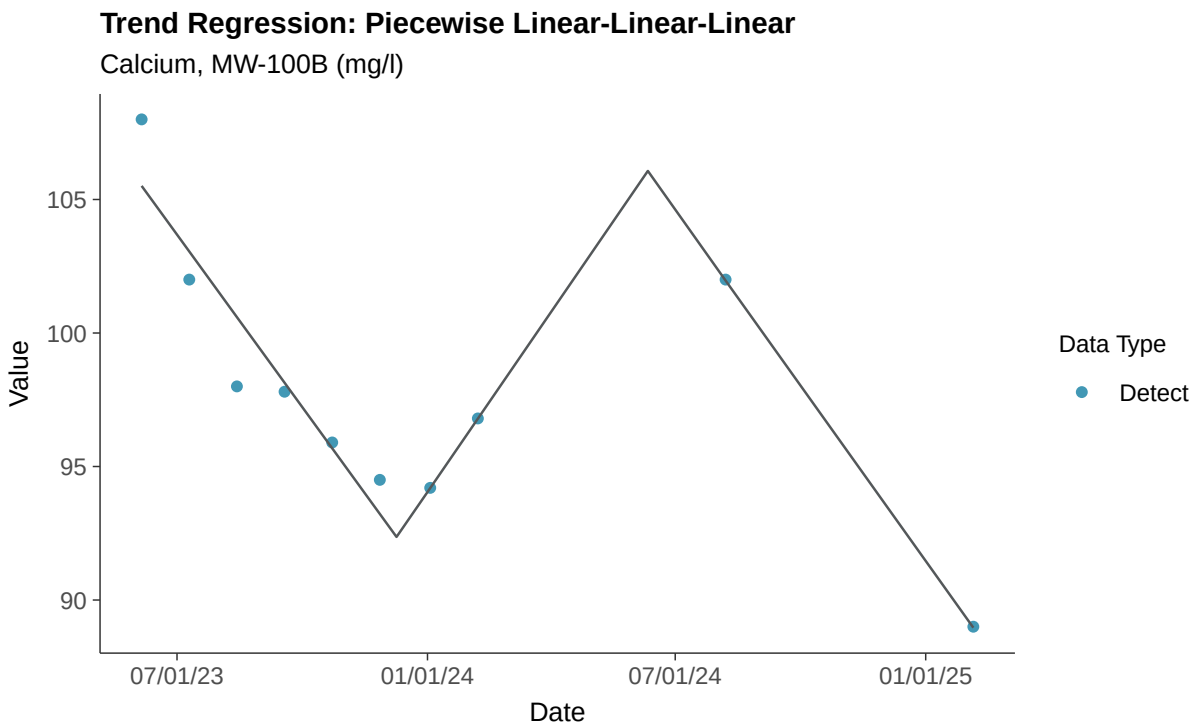
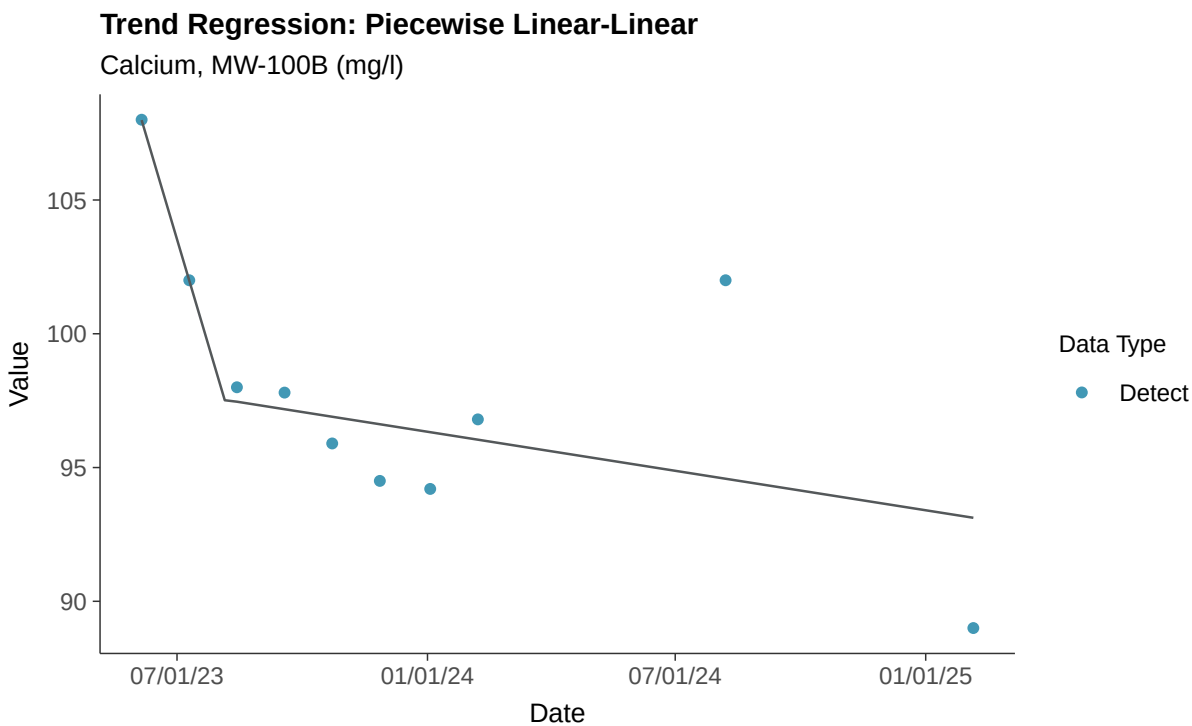
ID: 31_2_107







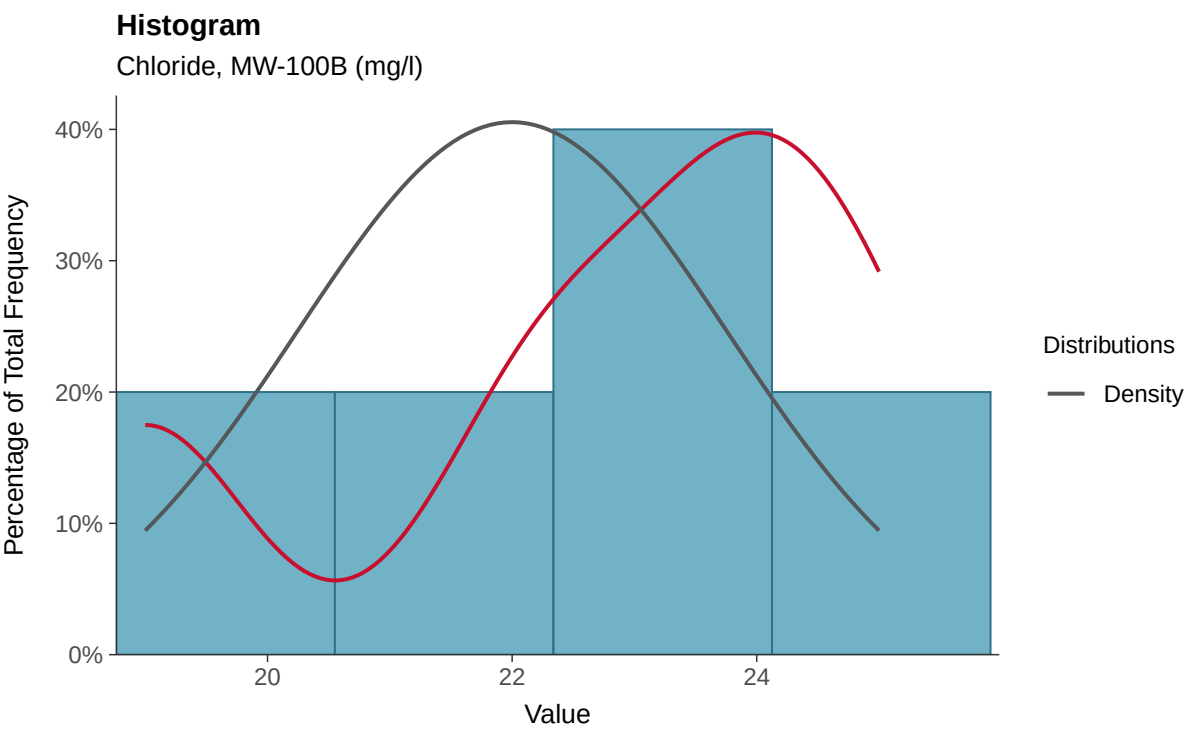
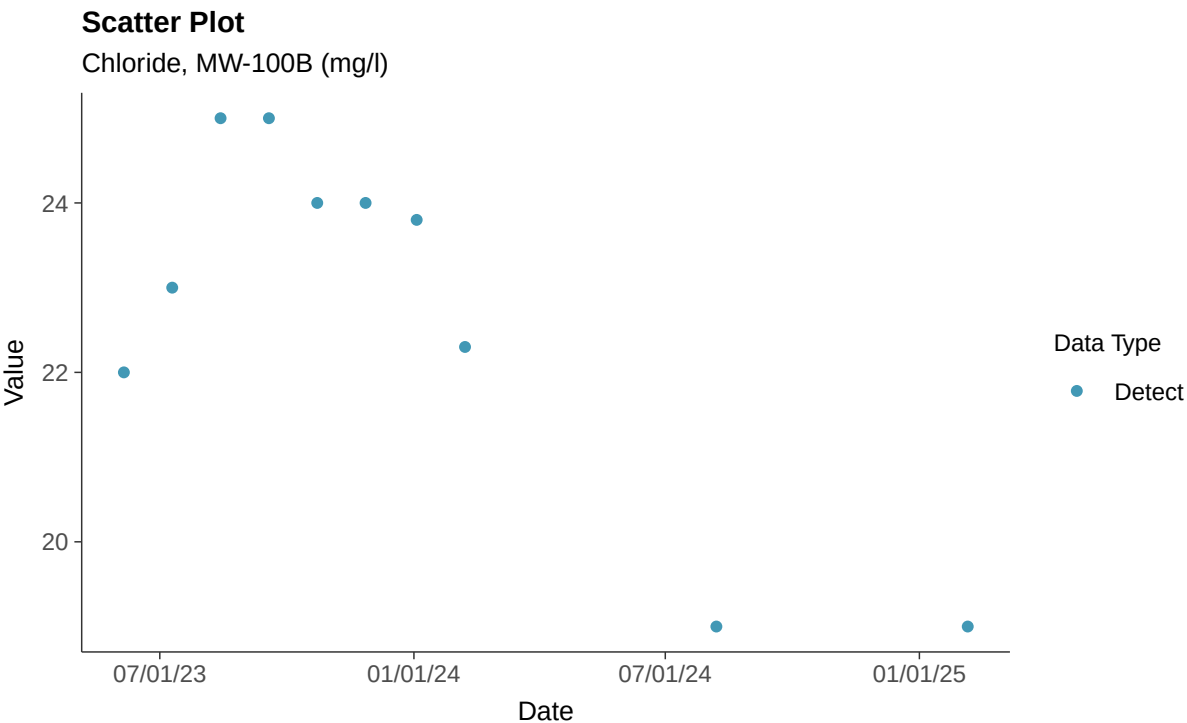






Appendix III: Chloride, MW-100B

ID: 31_2_108

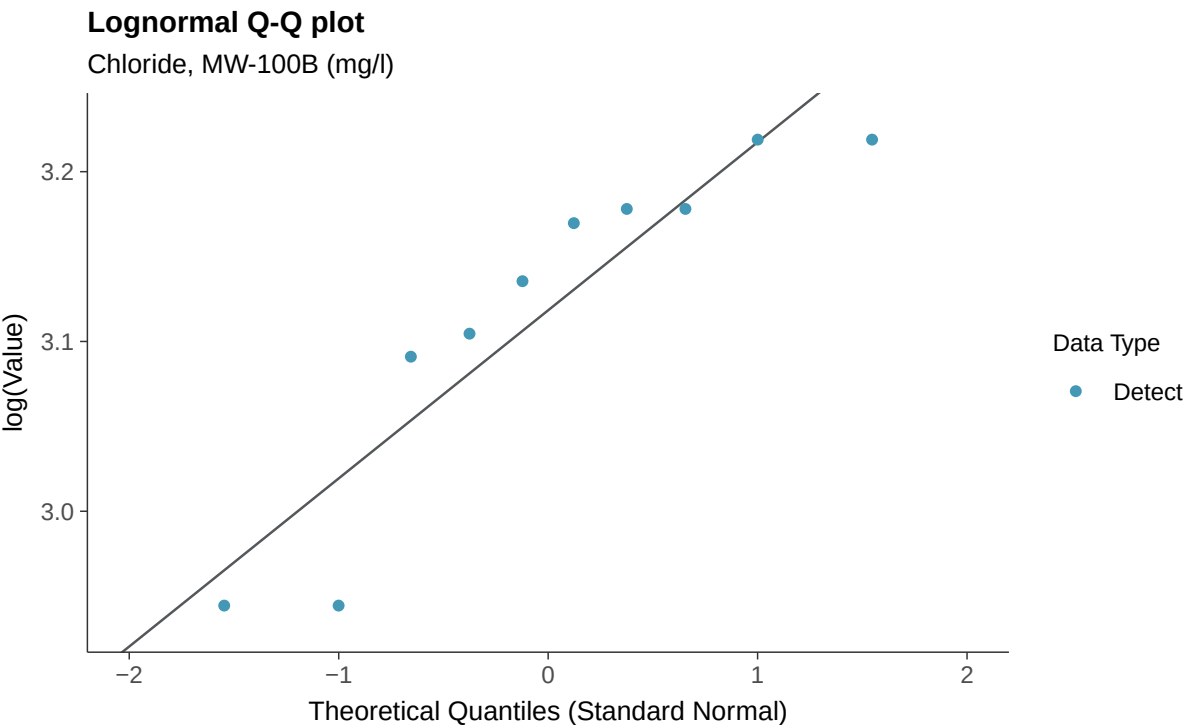
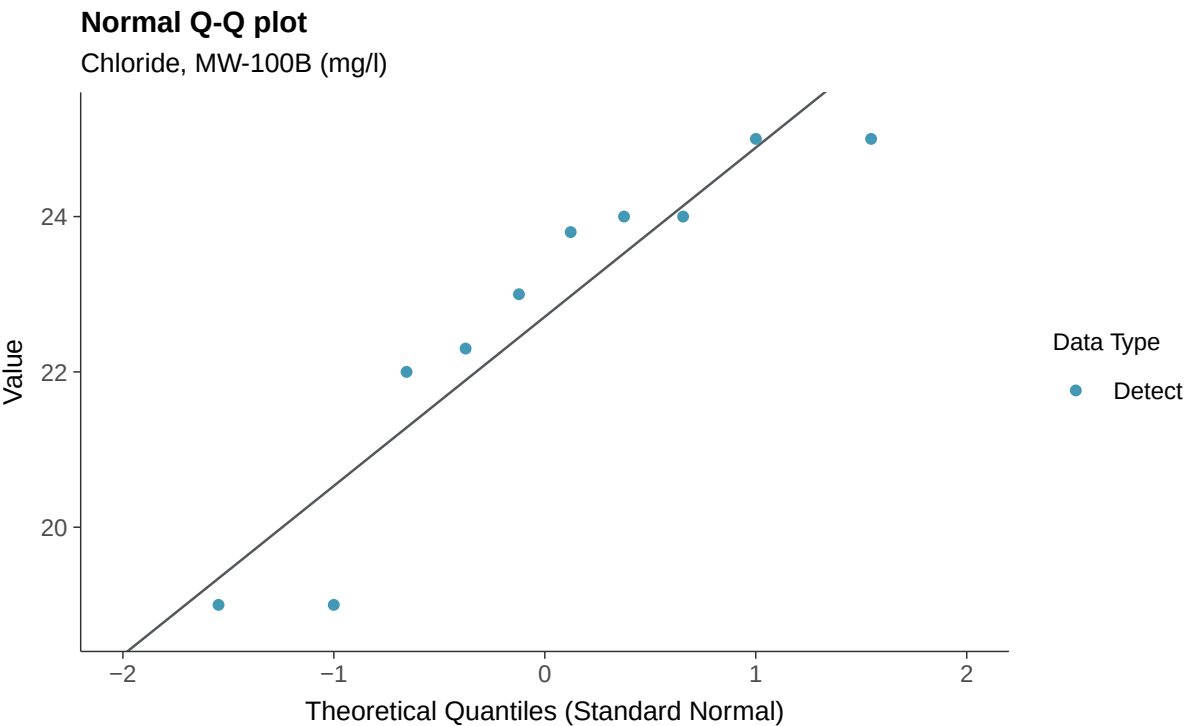


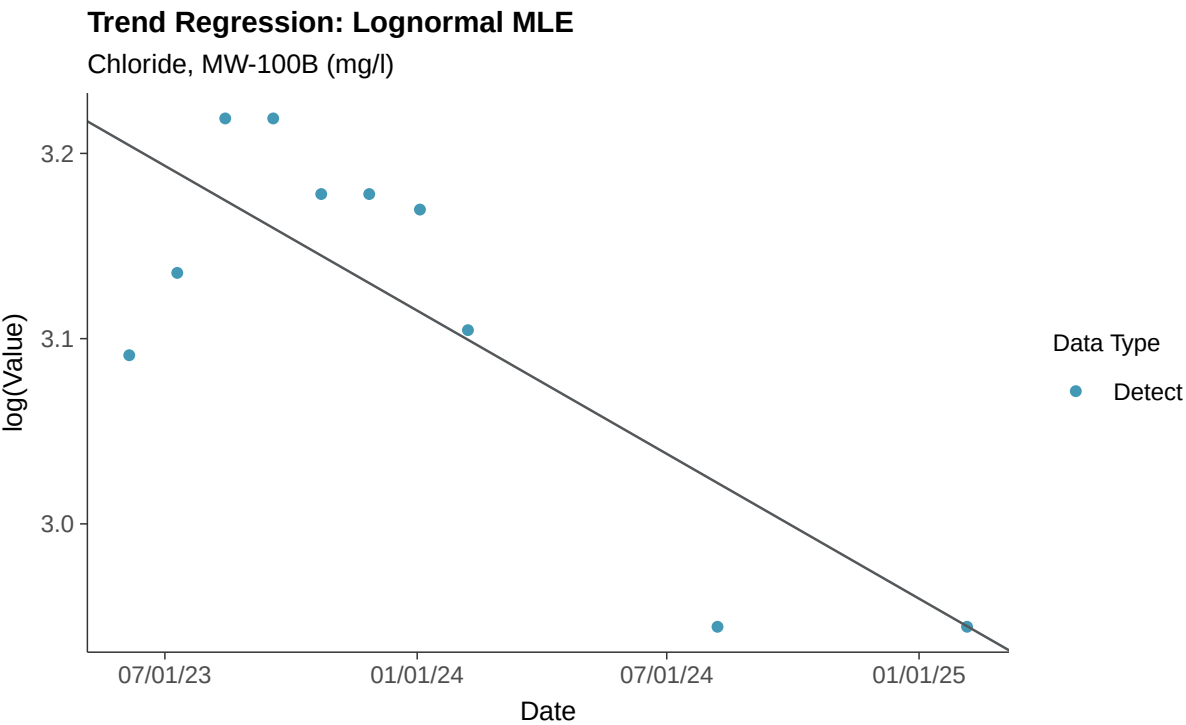
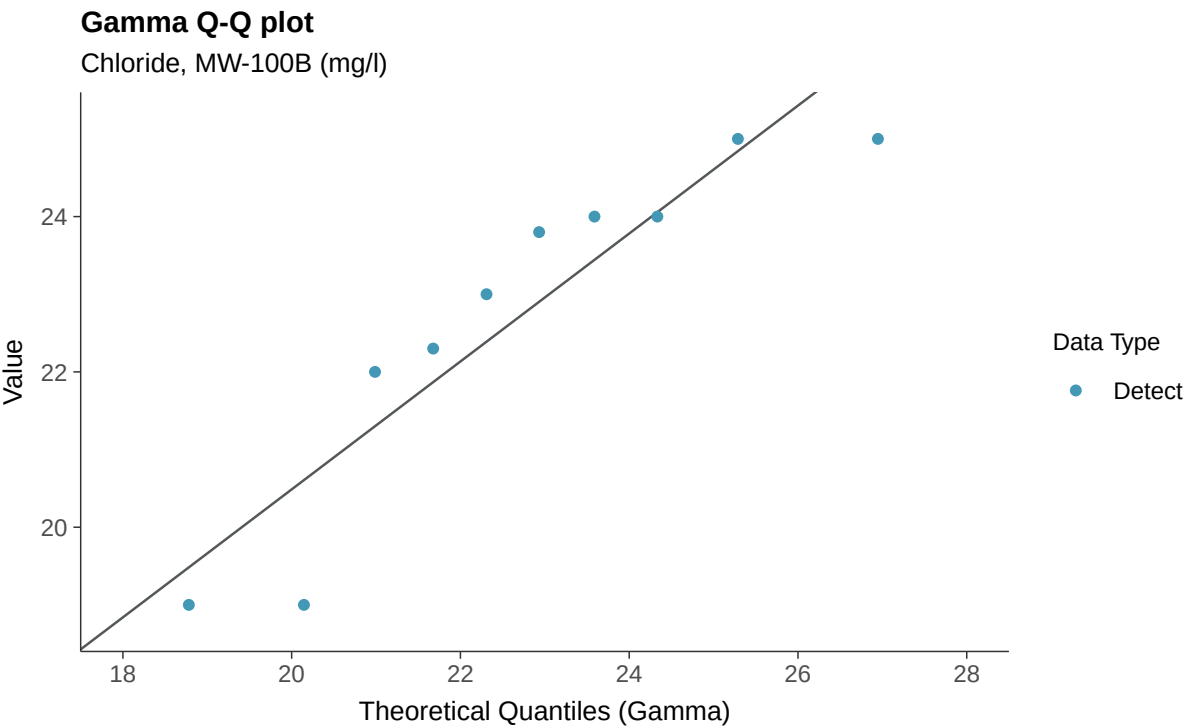
Chloride, MW-100B (mg/l)

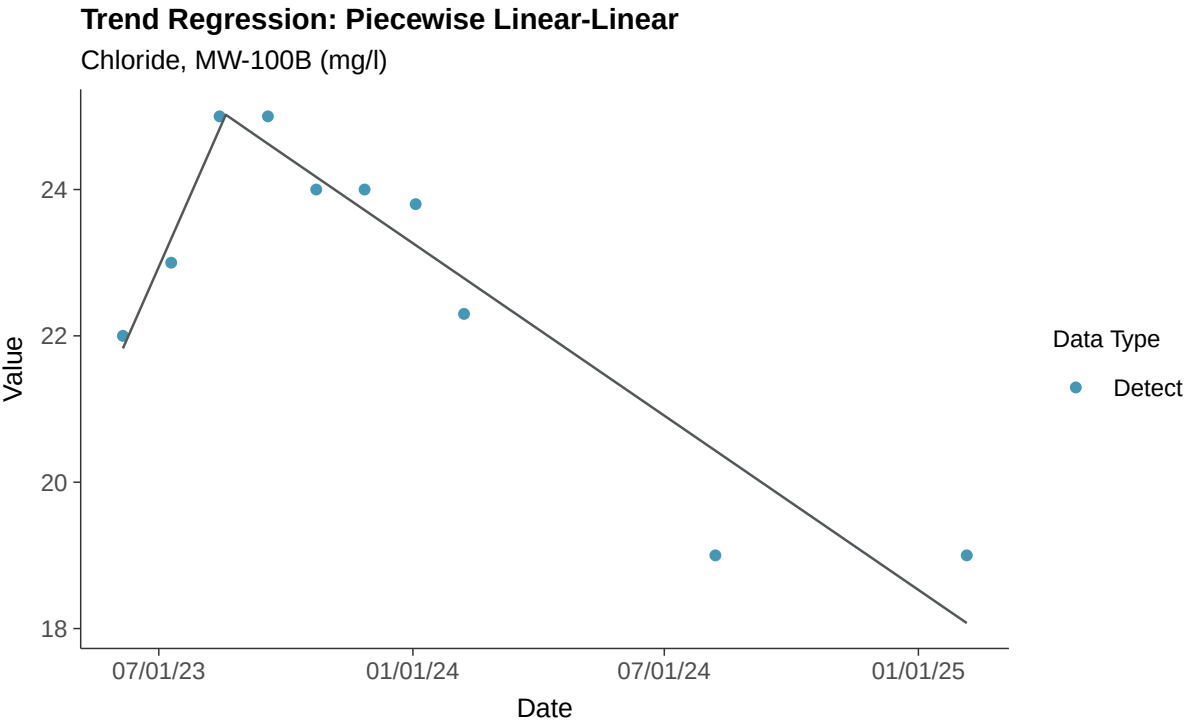


Chloride, MW-100B (mg/l)





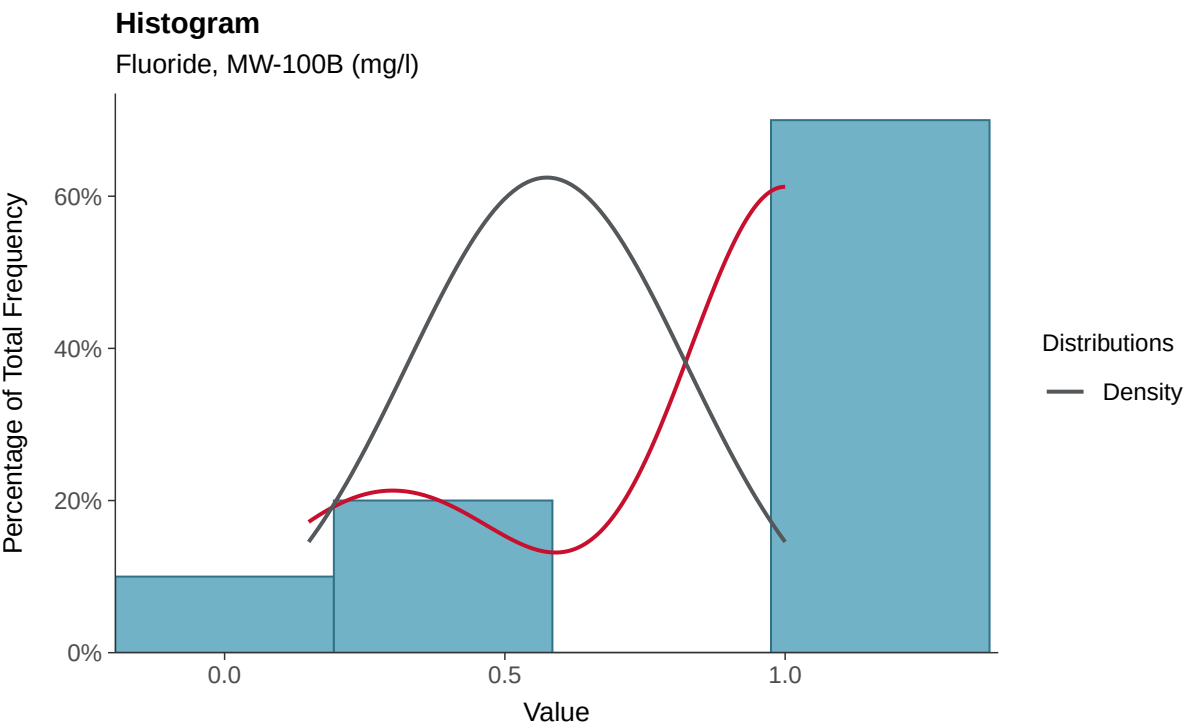
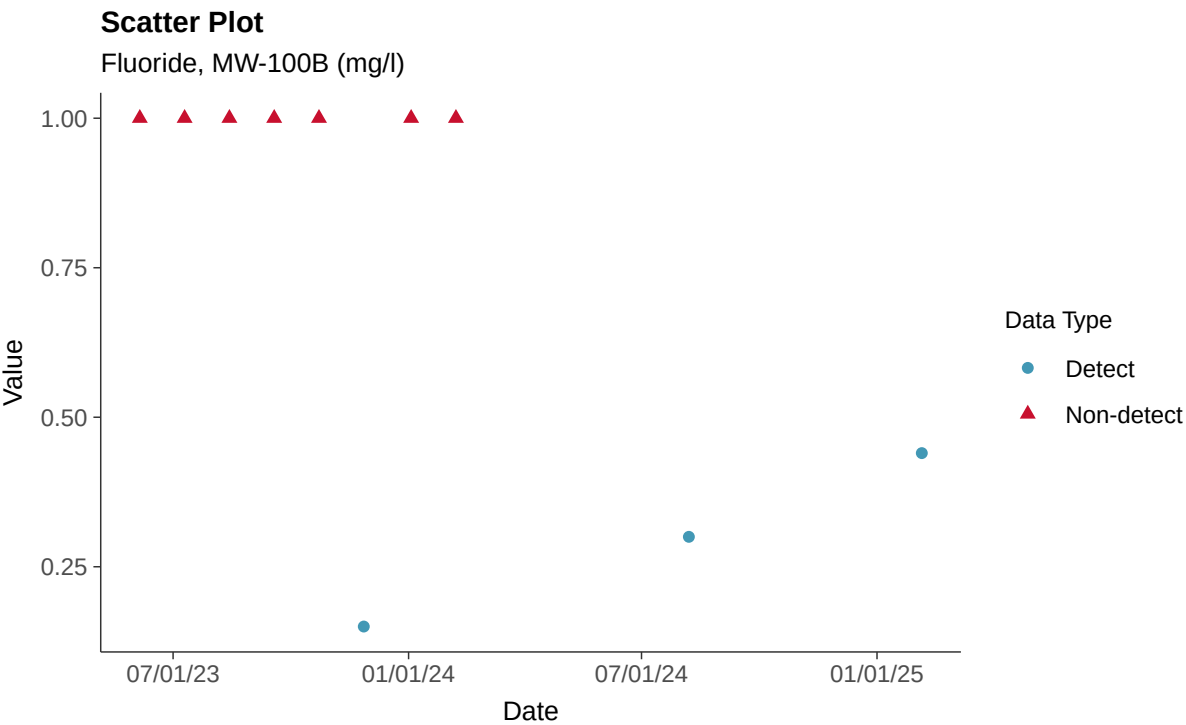


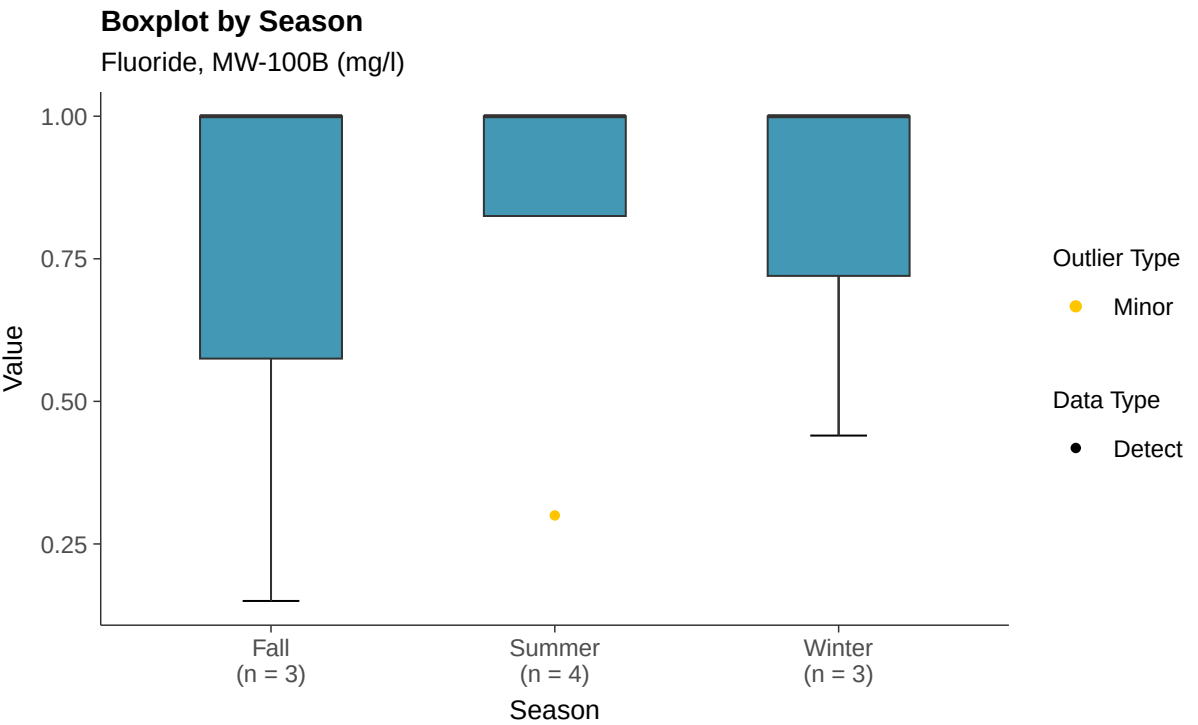
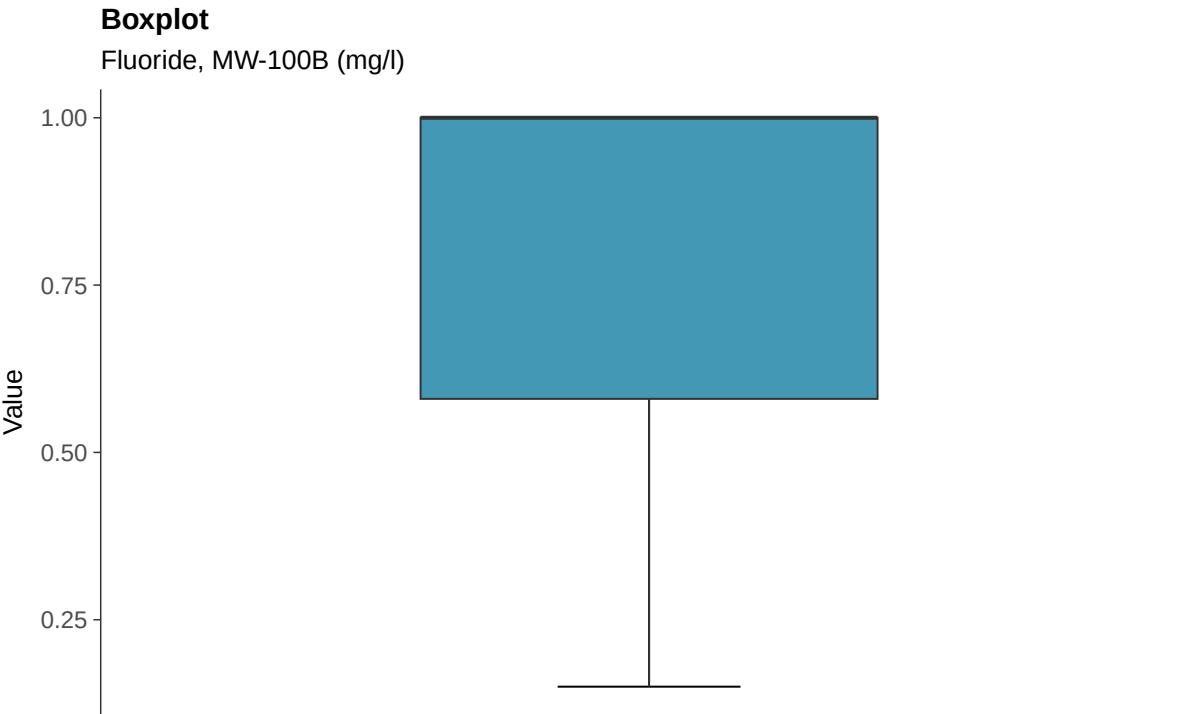




Appendix III: Fluoride, MW-100B

ID: 31_2_112

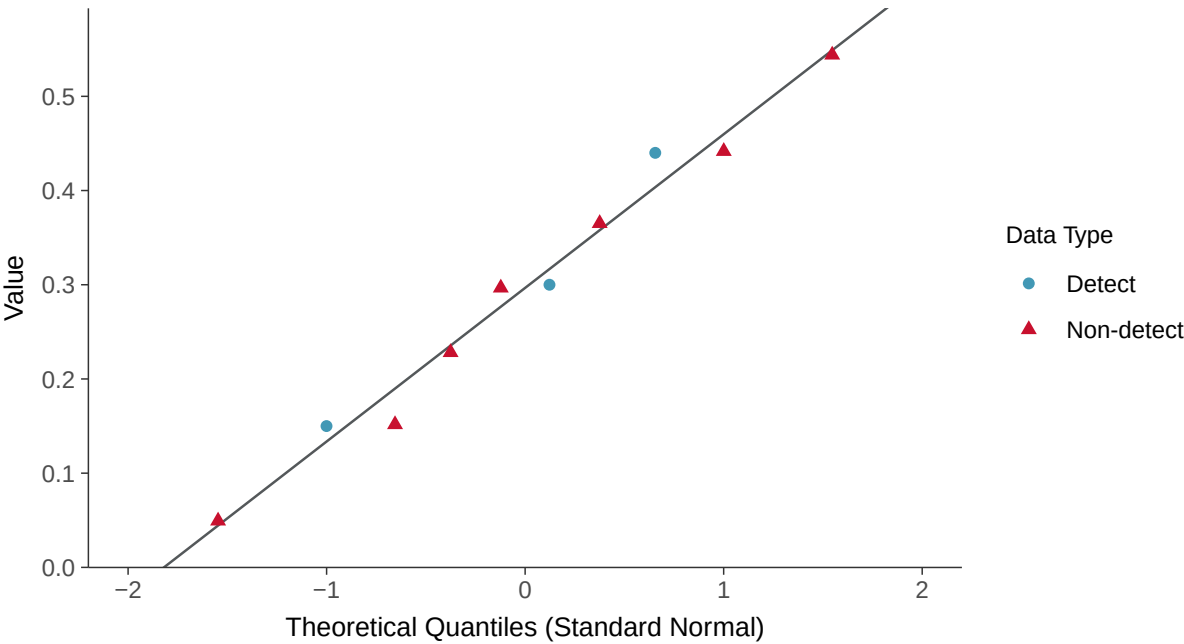






Normal Q-Q plot using ROS Imputed Estimates

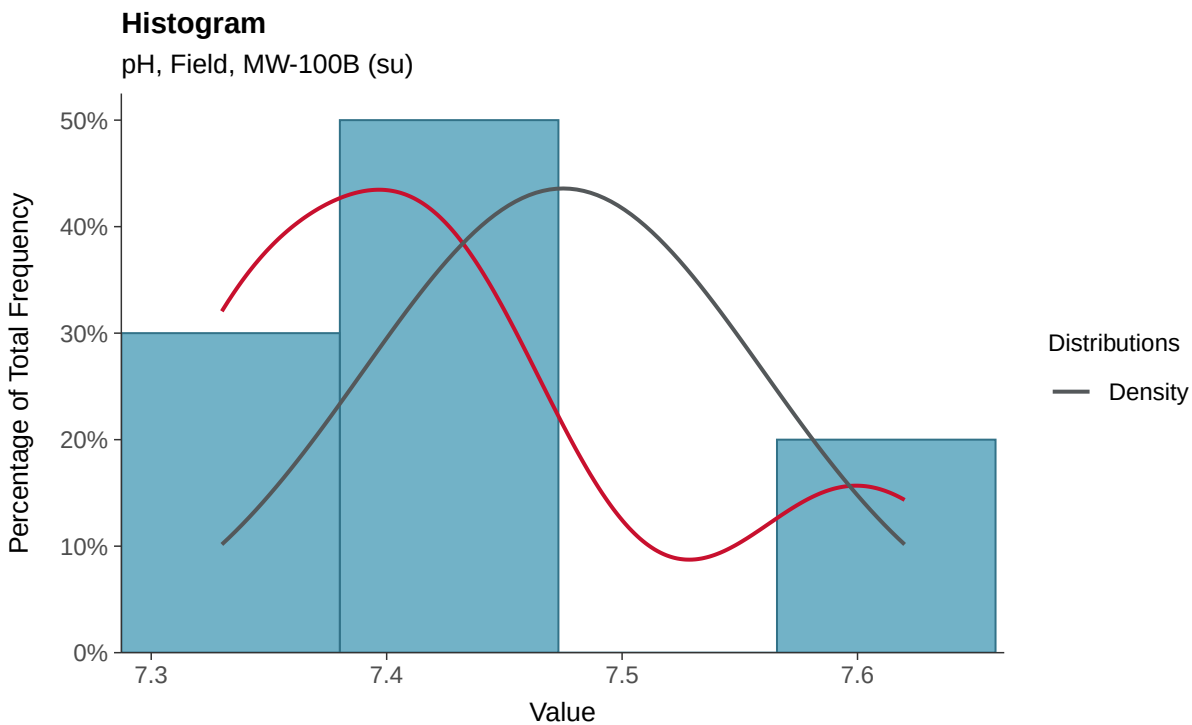
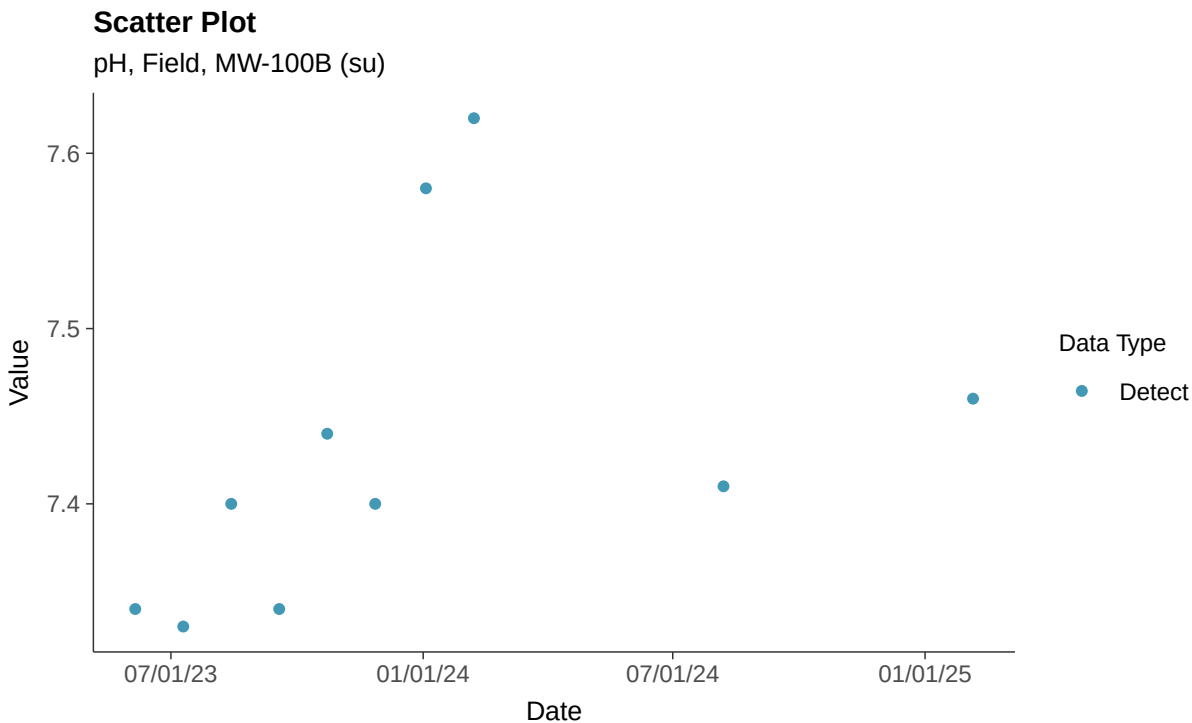
Fluoride, MW-100B (mg/l)

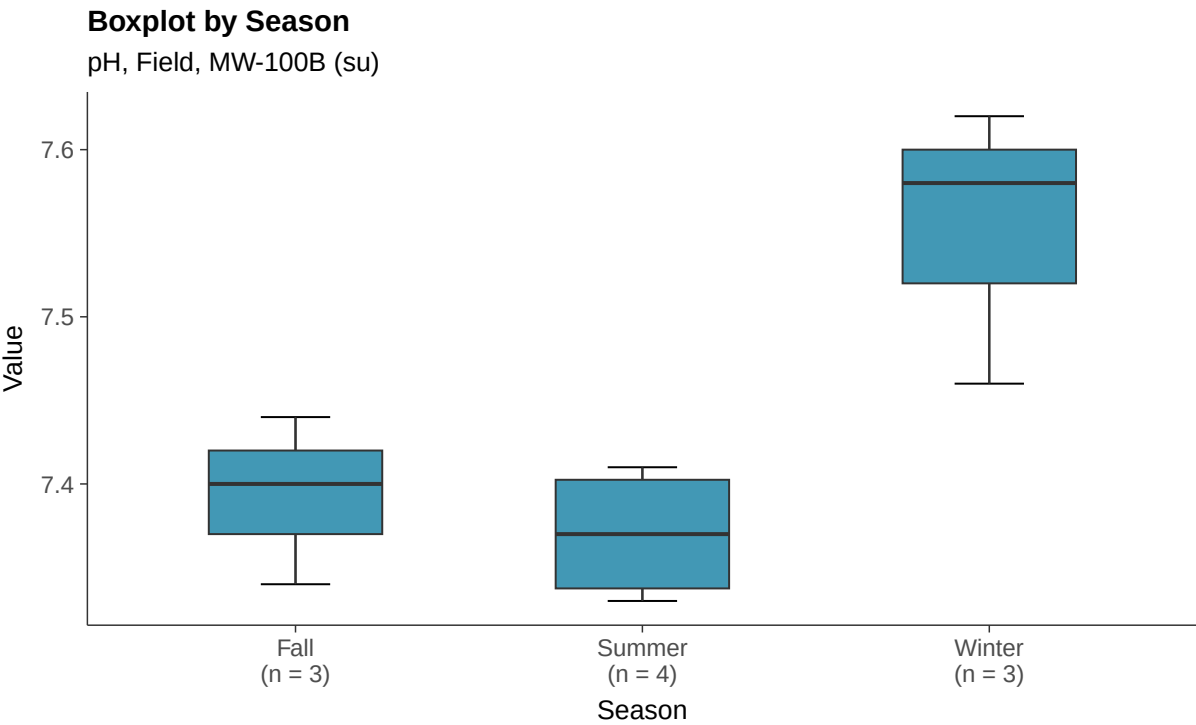
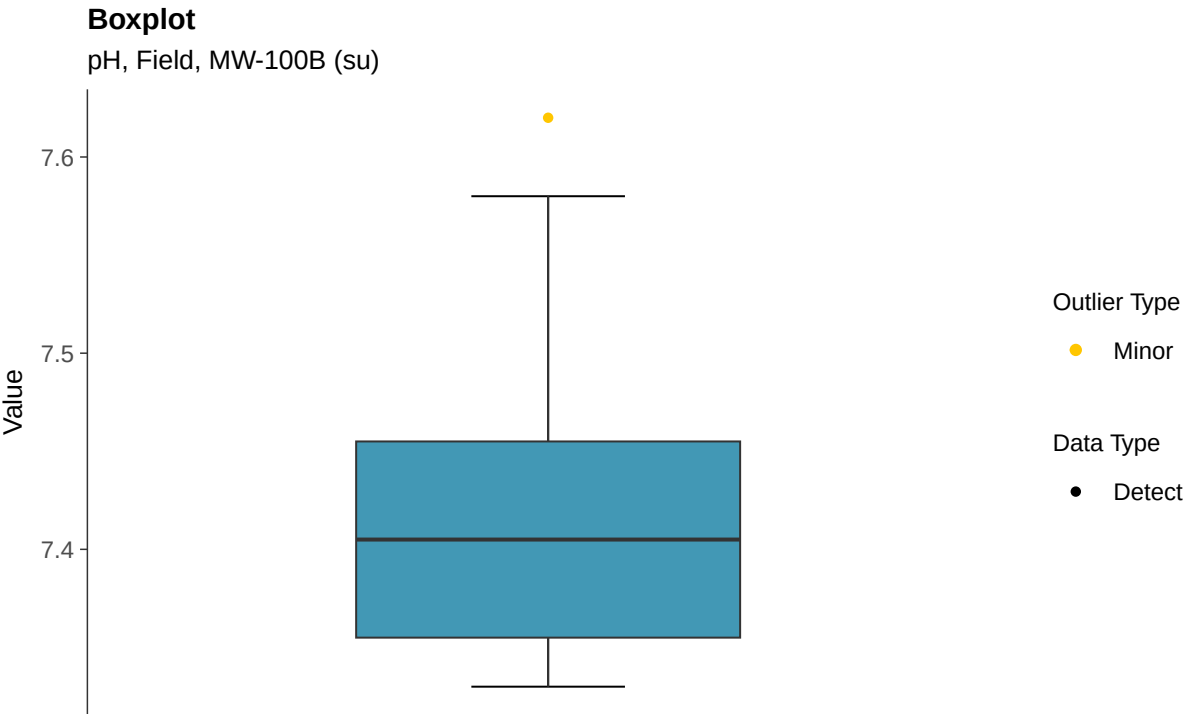


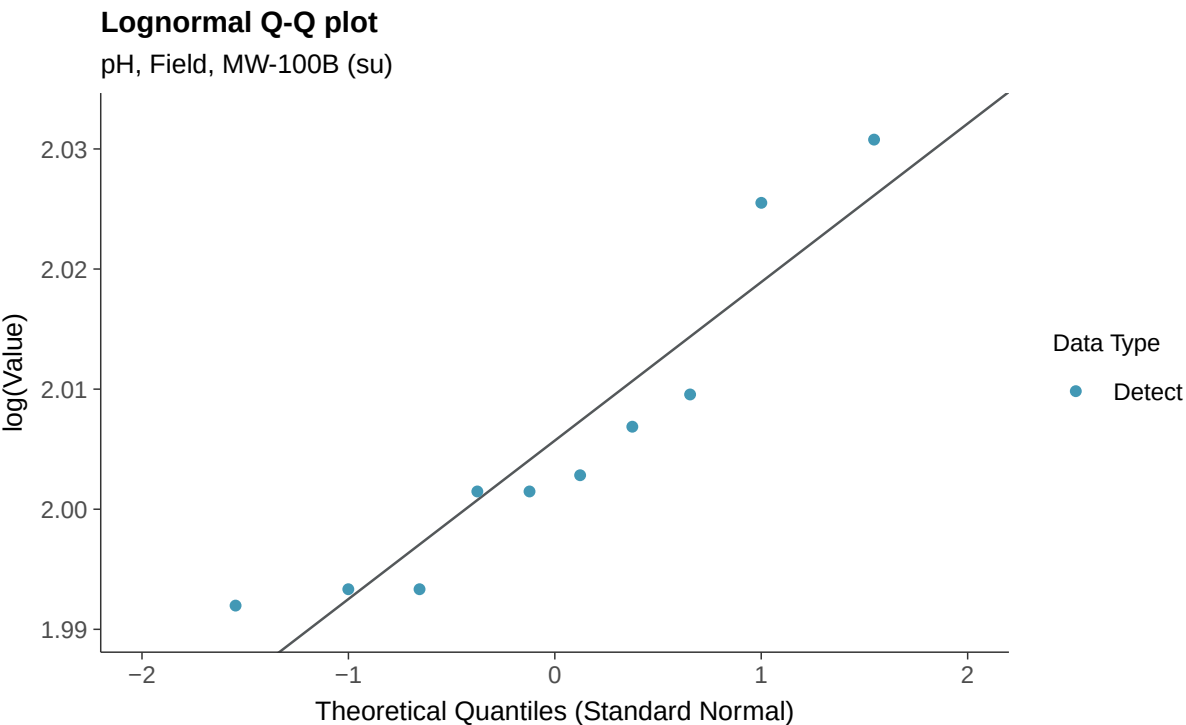
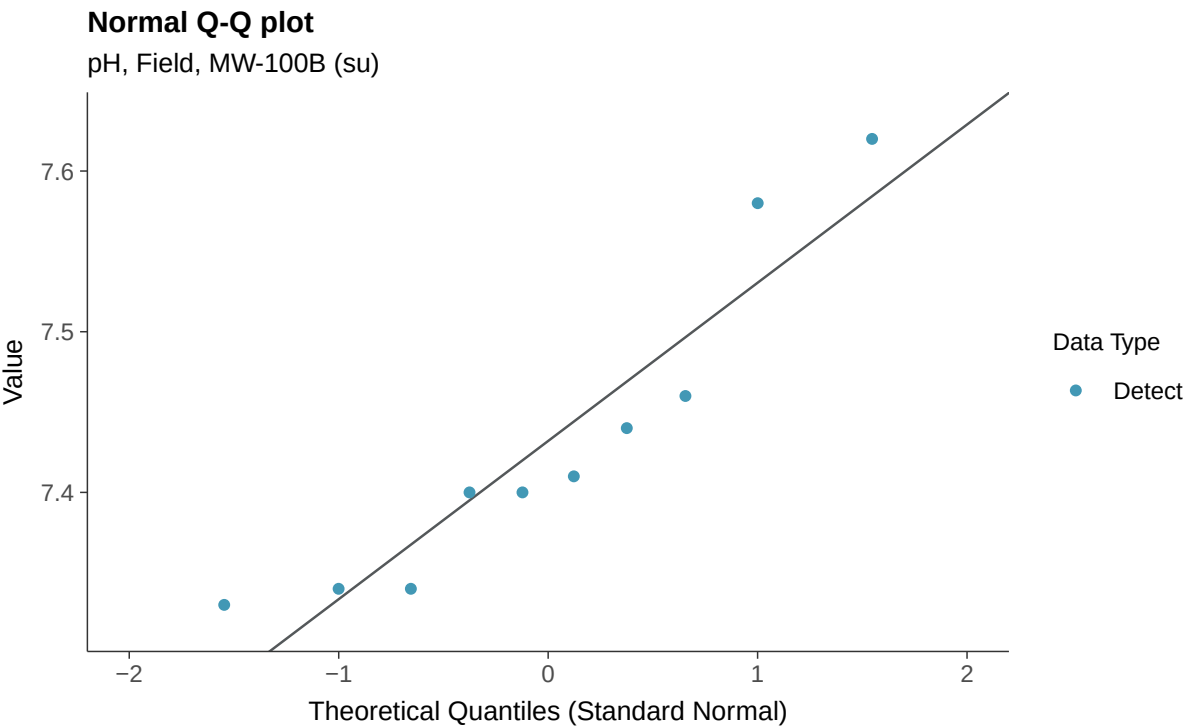


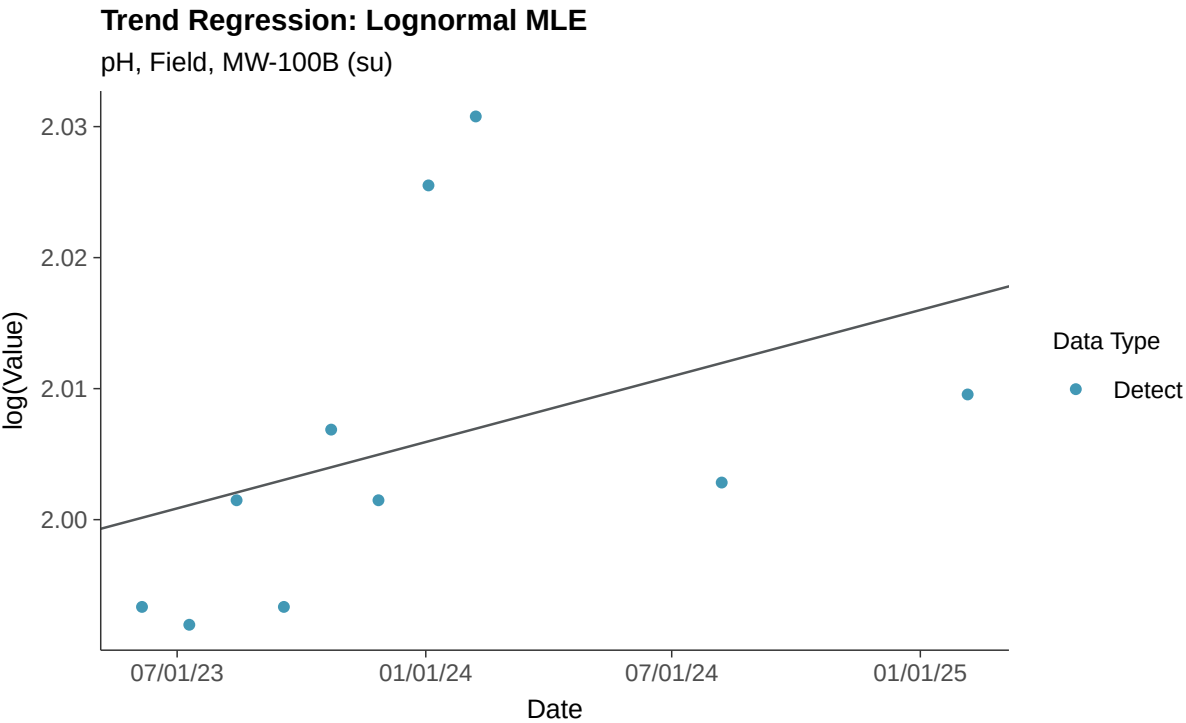
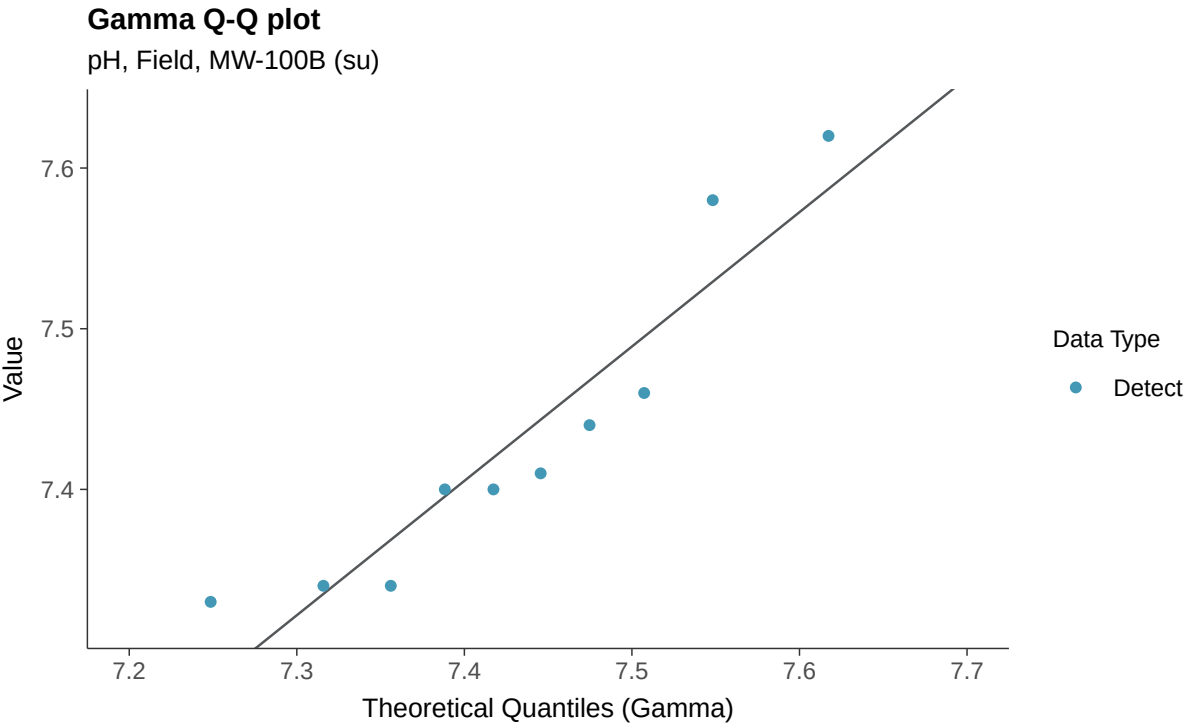
Appendix III: pH, Field, MW-100B

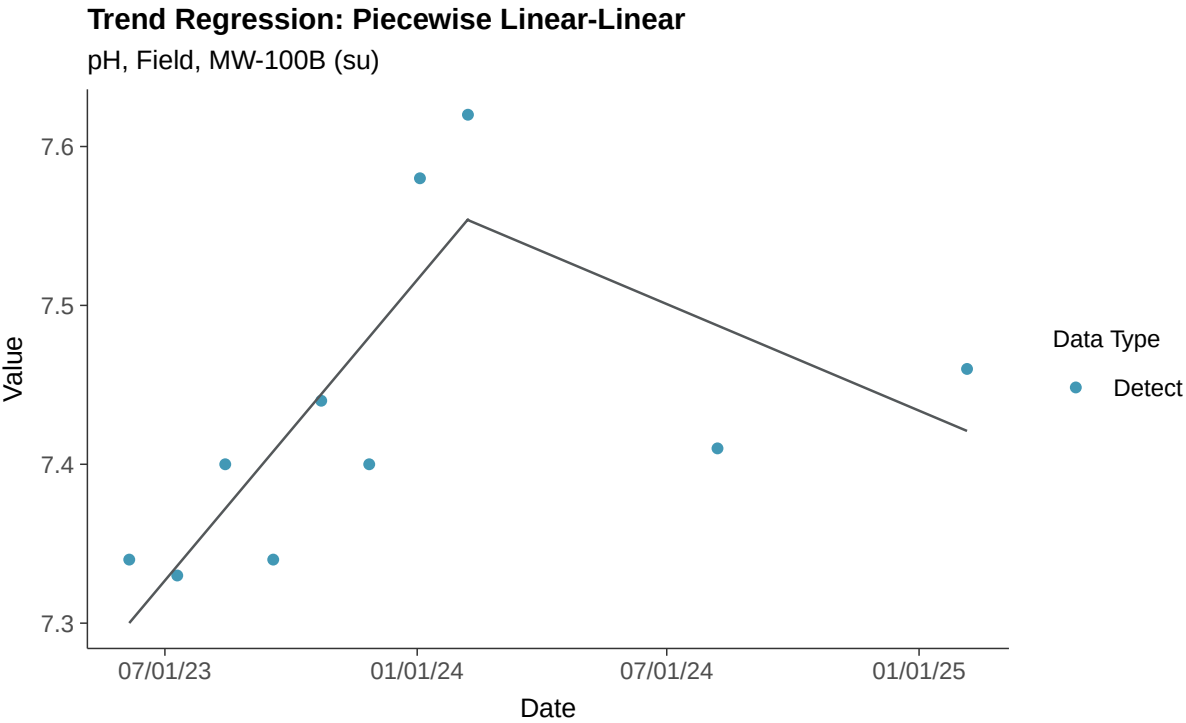
ID: 31_2_120







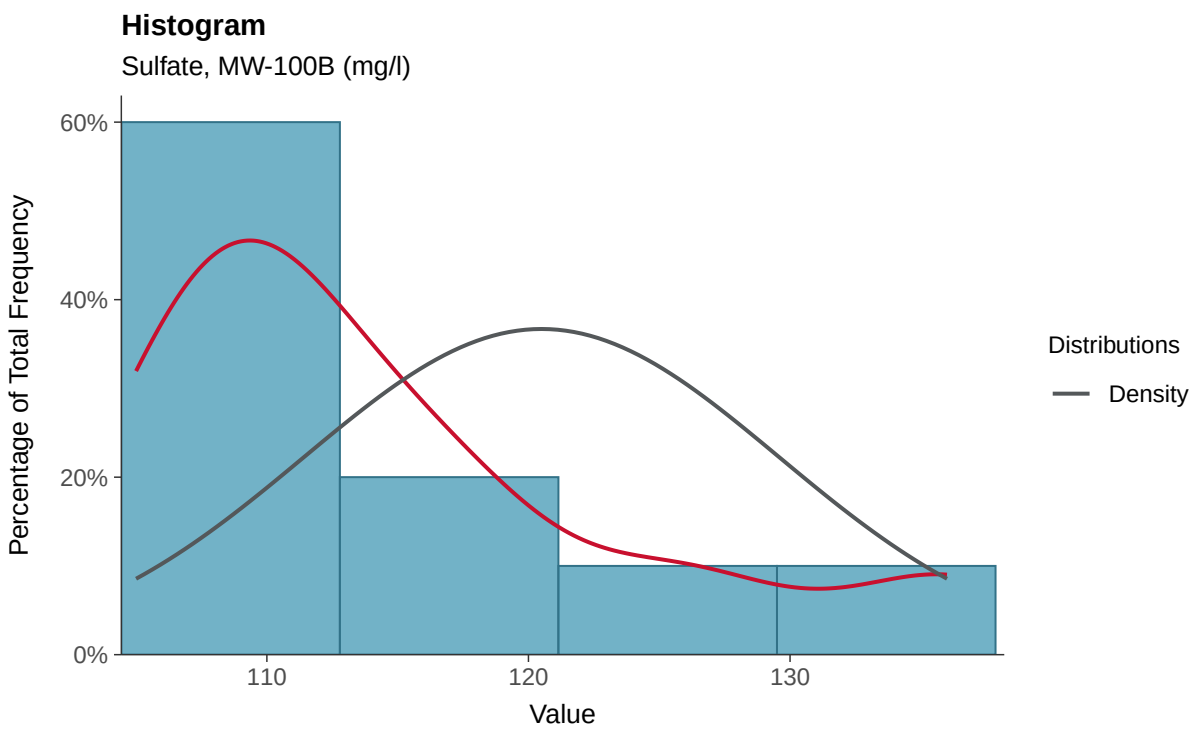
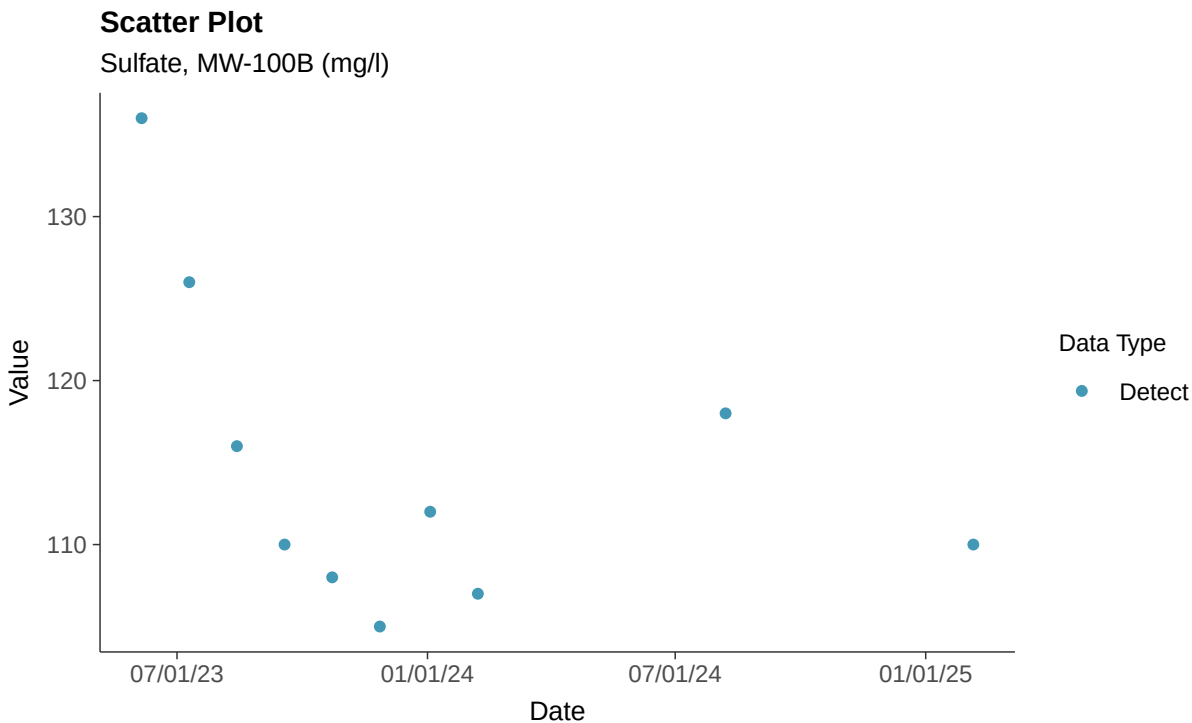


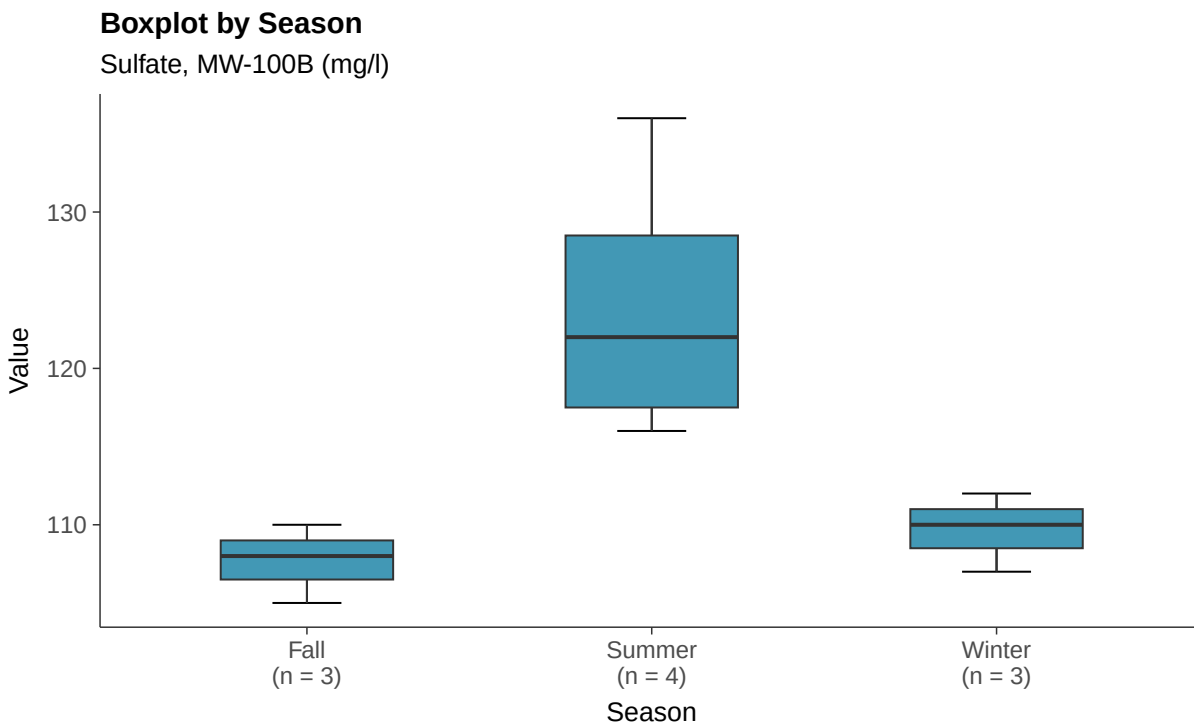
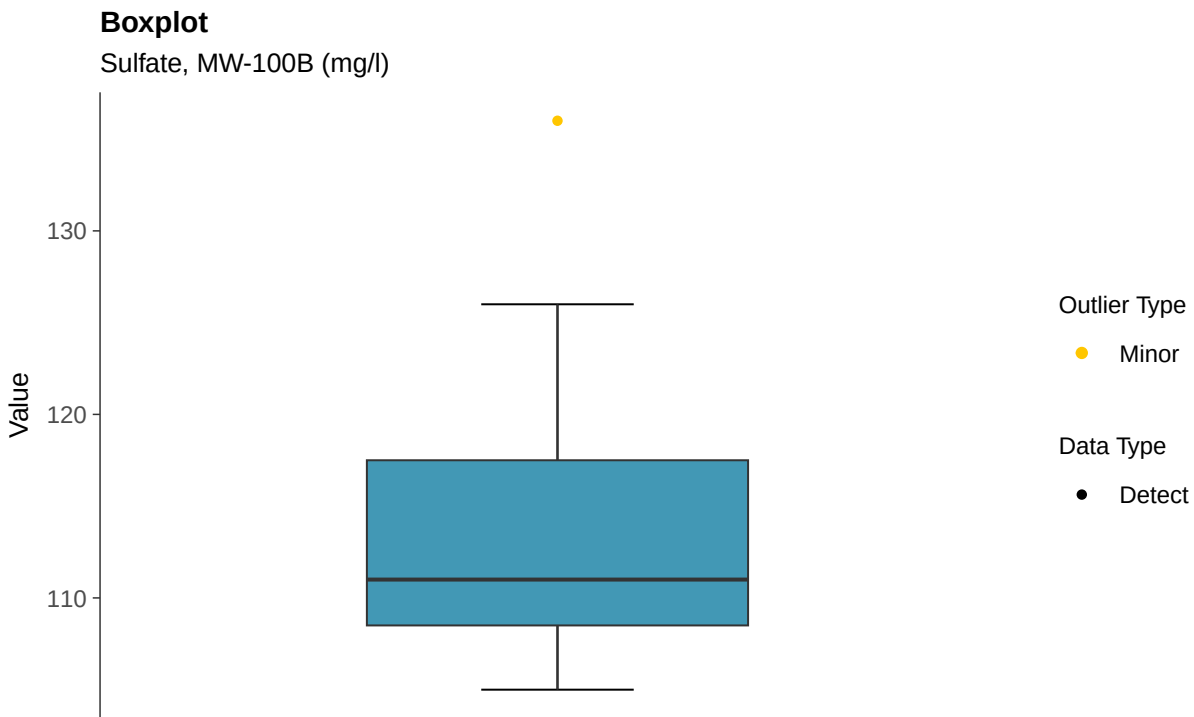


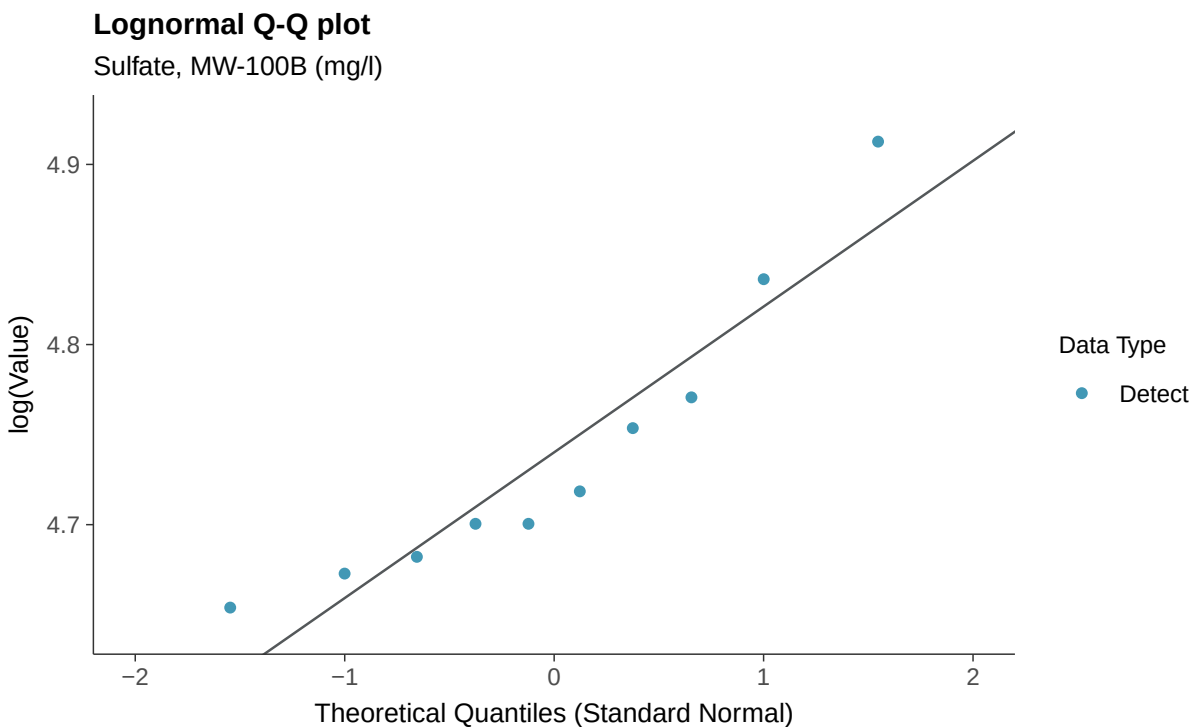
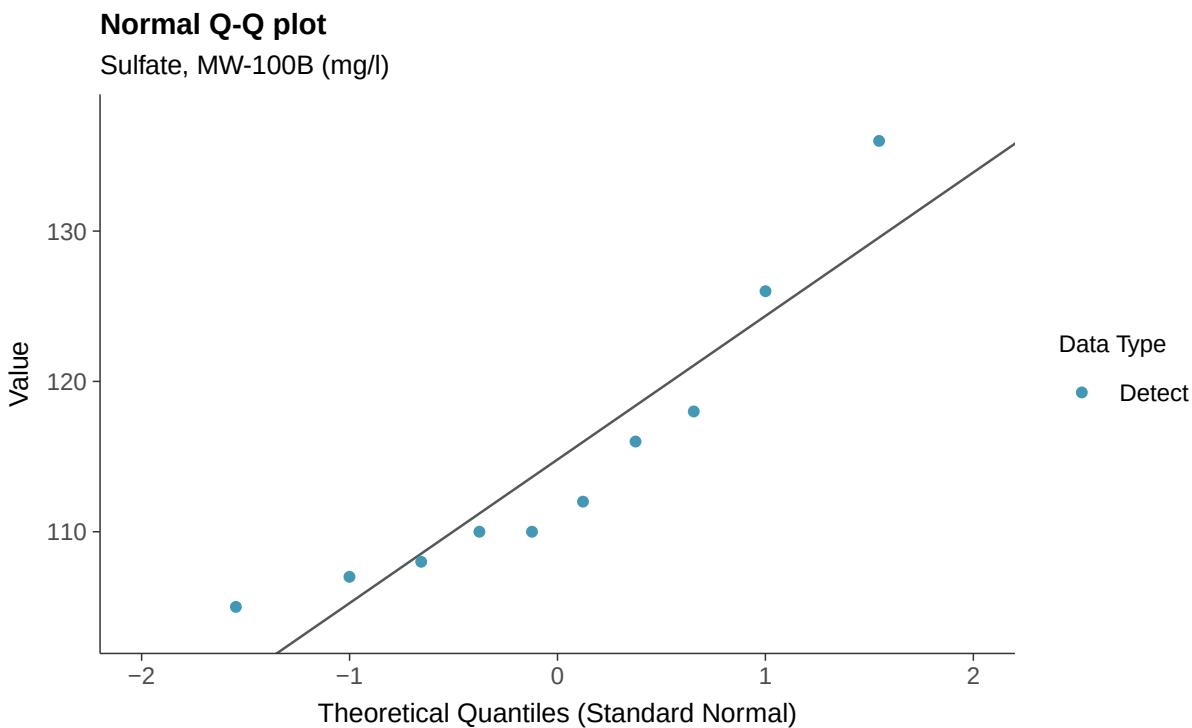


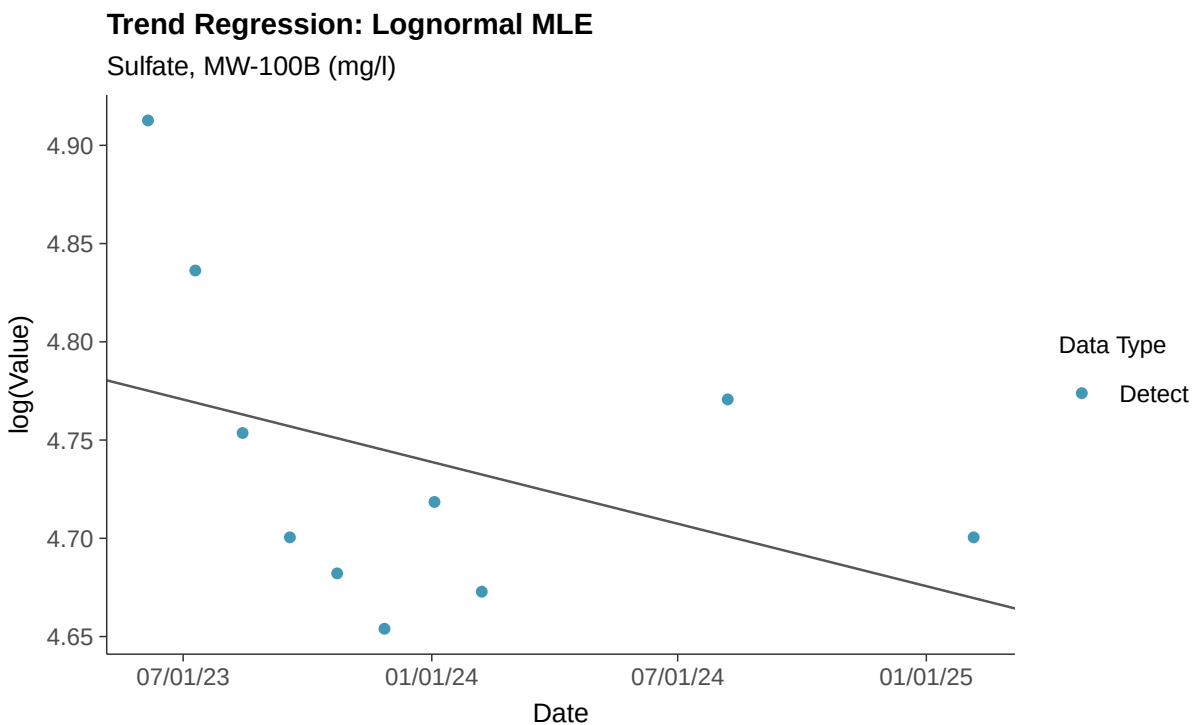
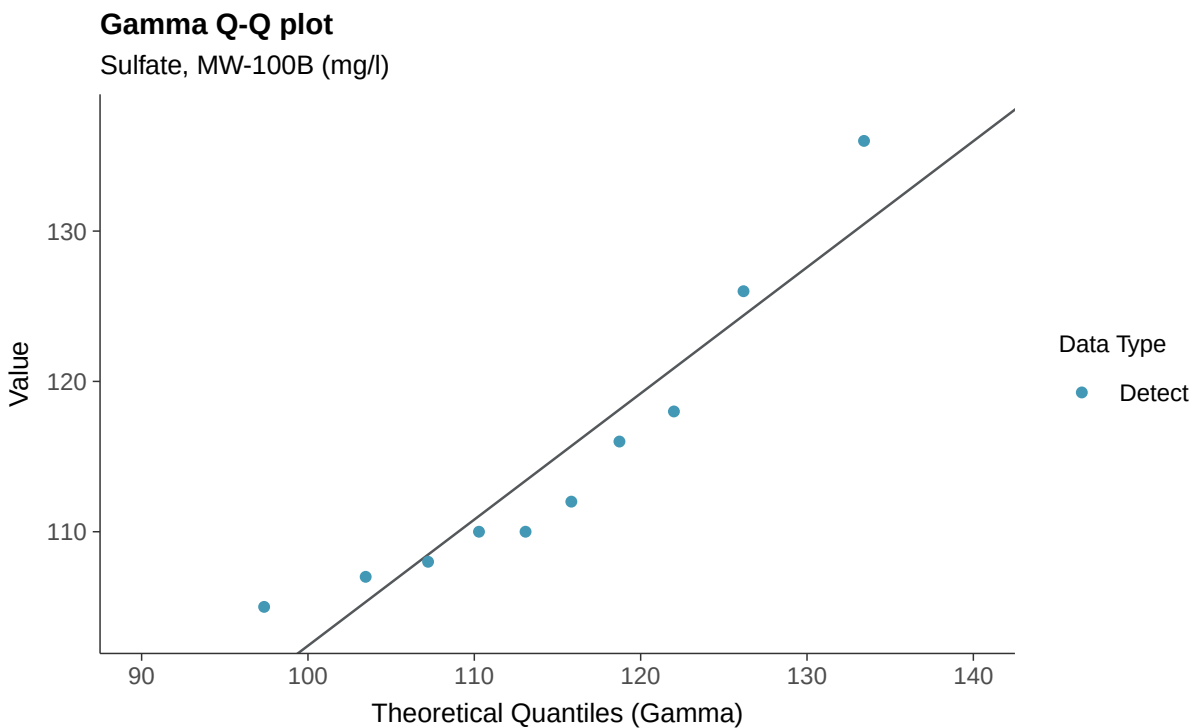
Appendix III: Sulfate, MW-100B

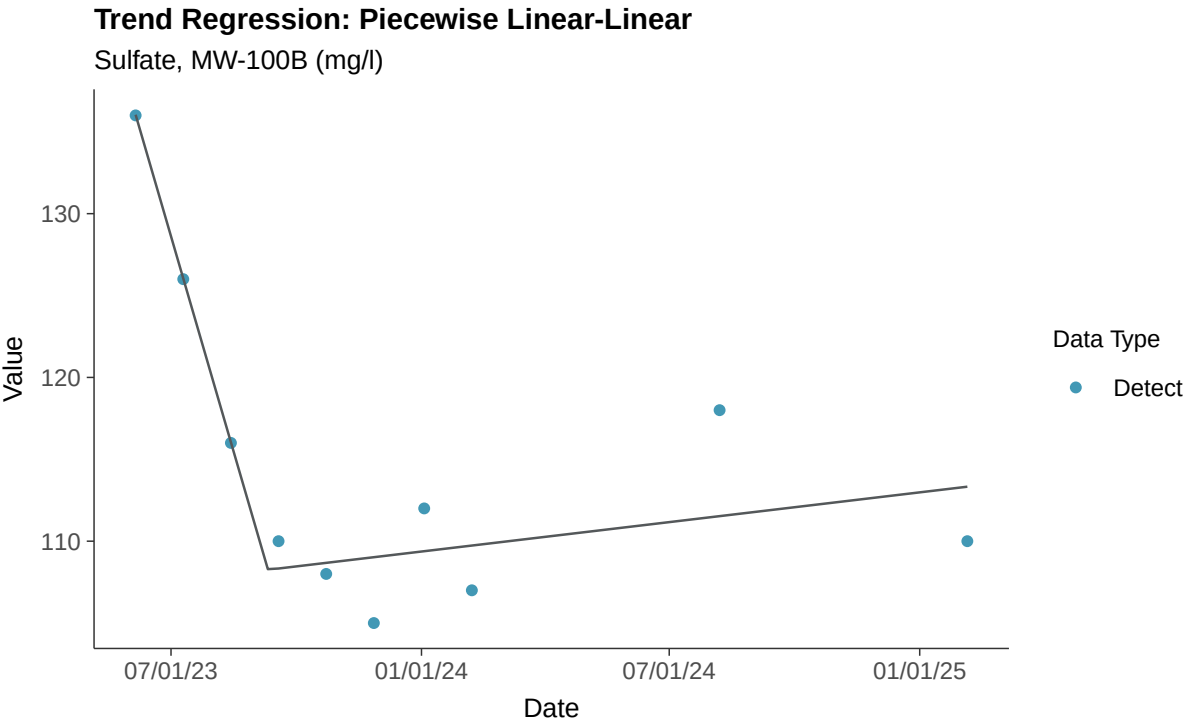
ID: 31_2_124







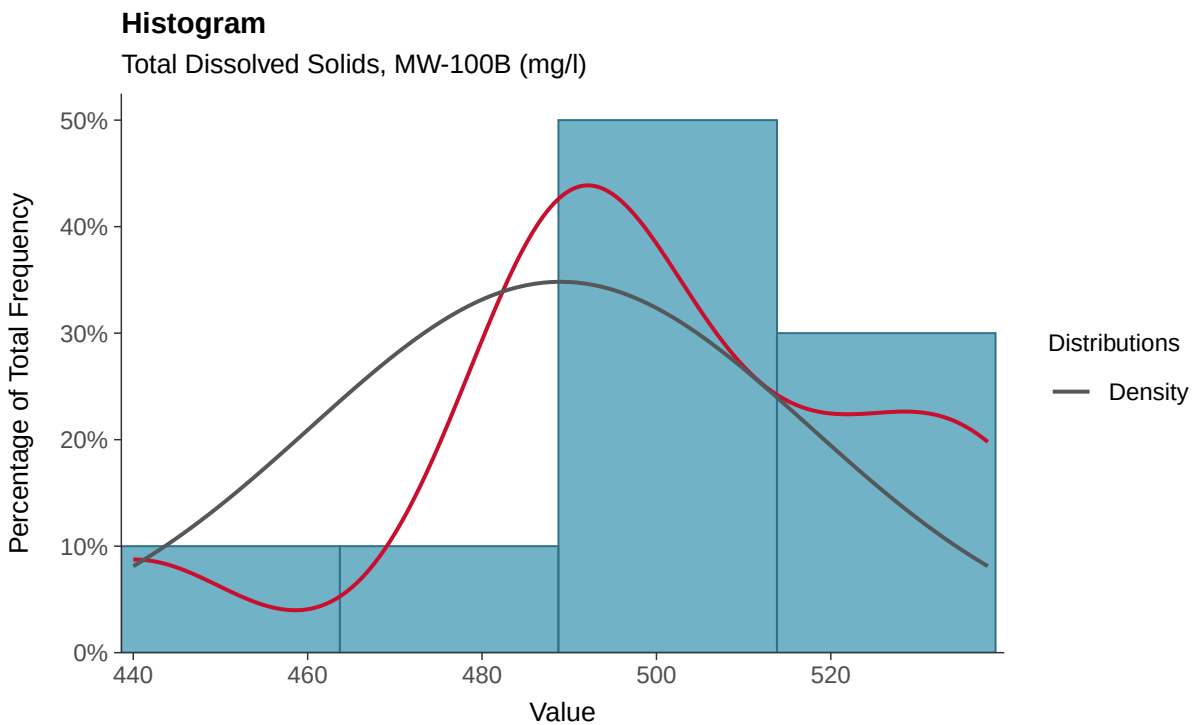
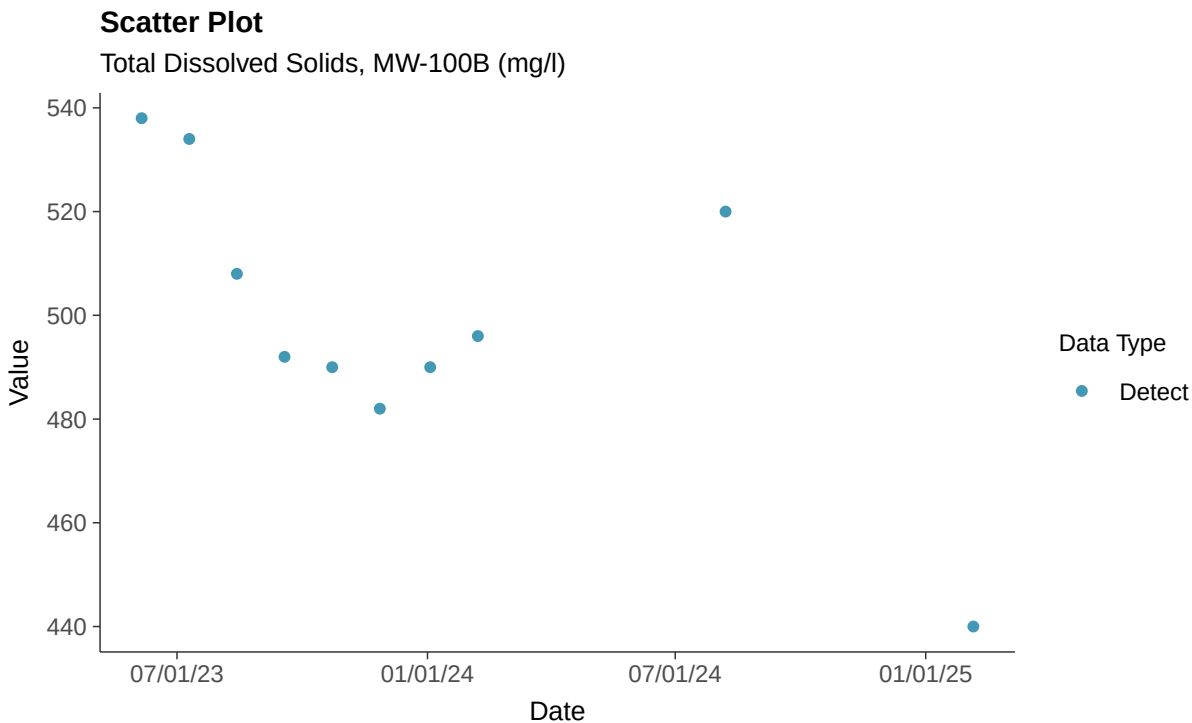


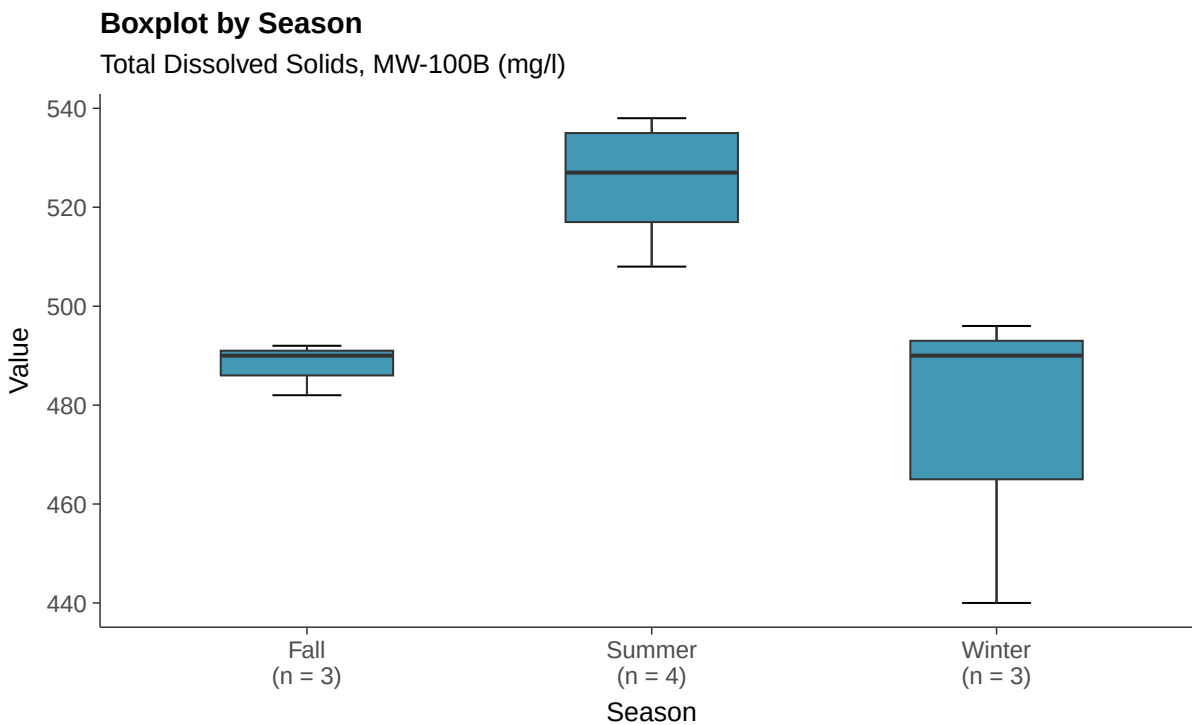
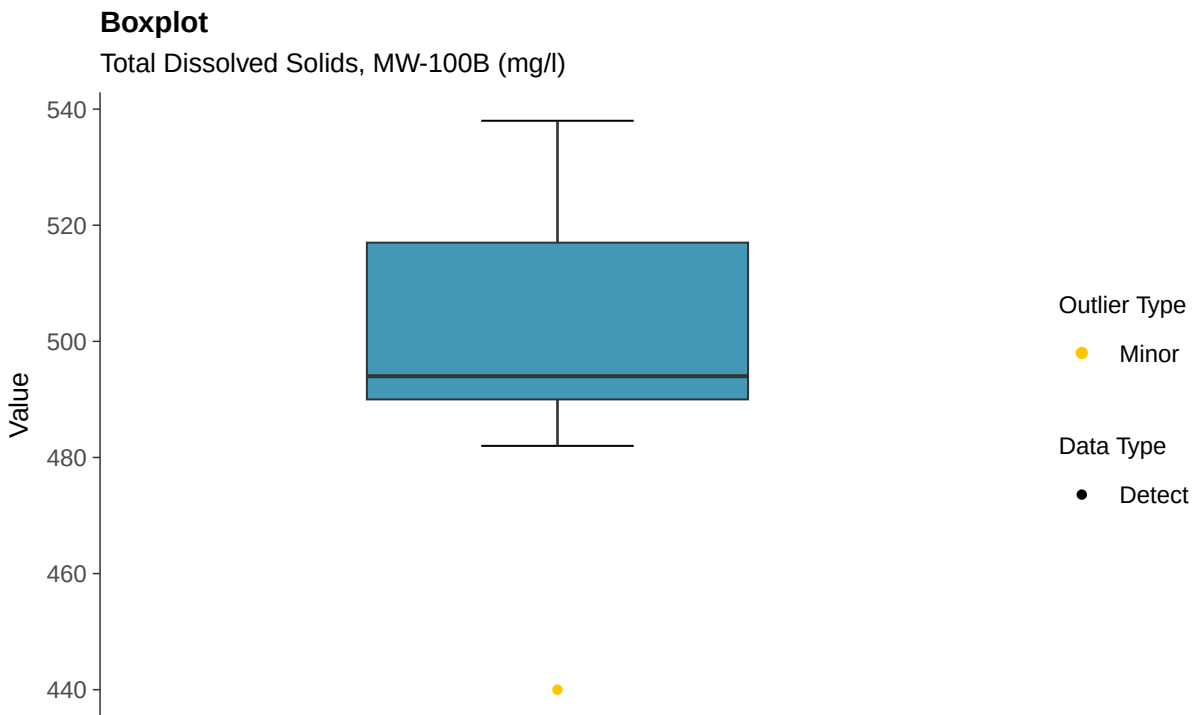




Appendix III: Total Dissolved Solids, MW-100B

ID: 31_2_126

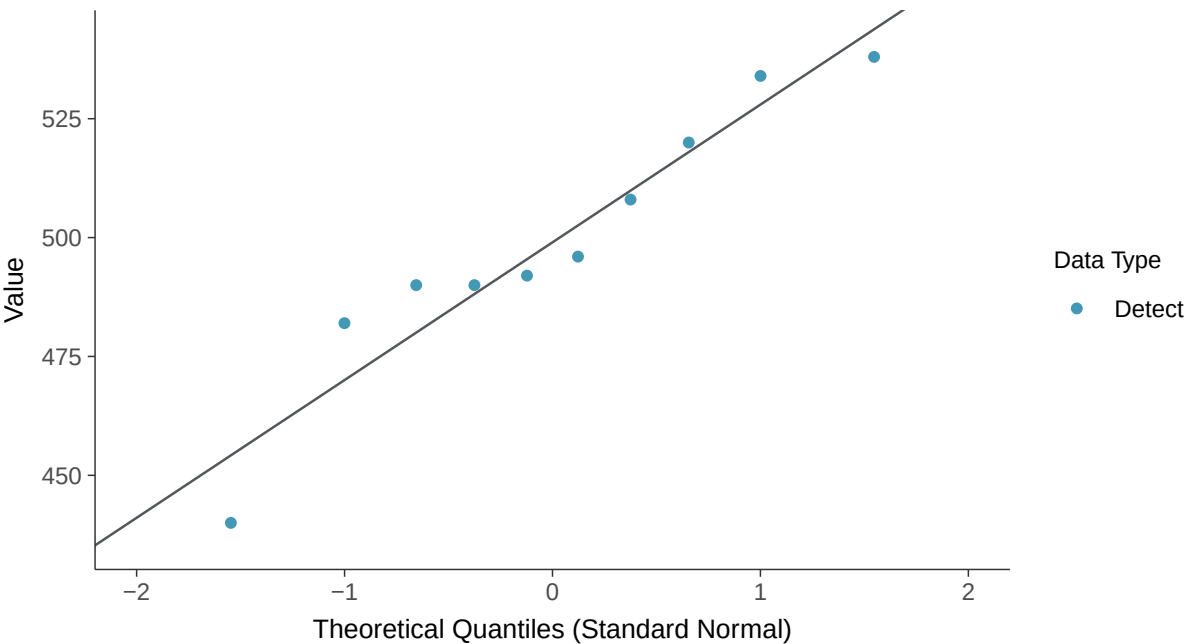






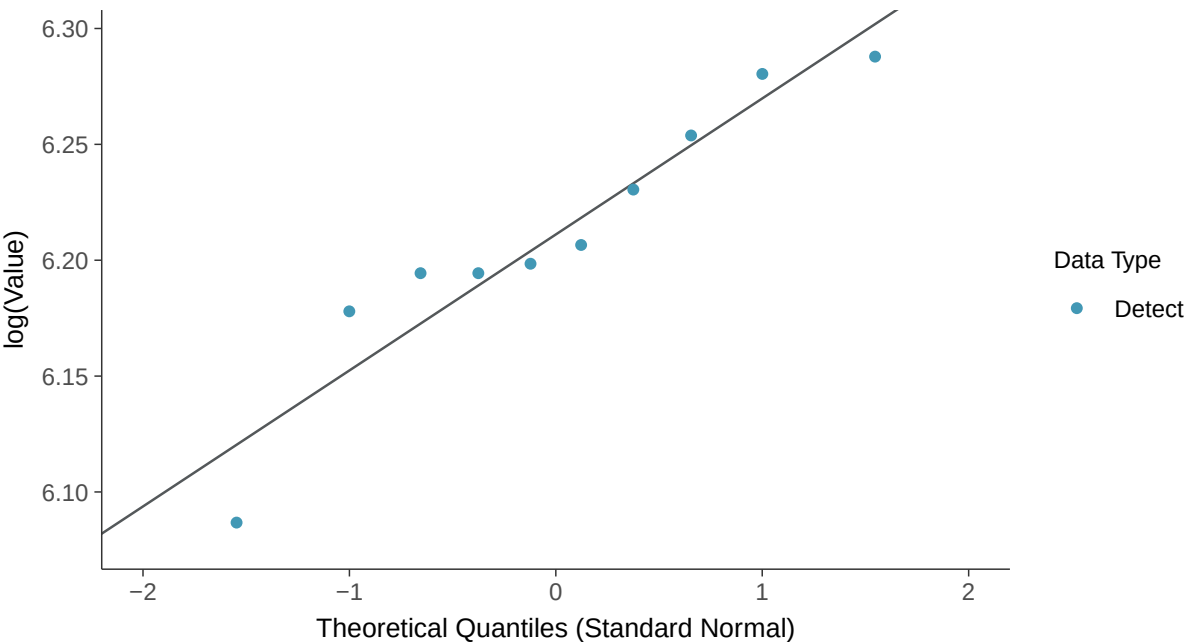
Normal Q-Q plot

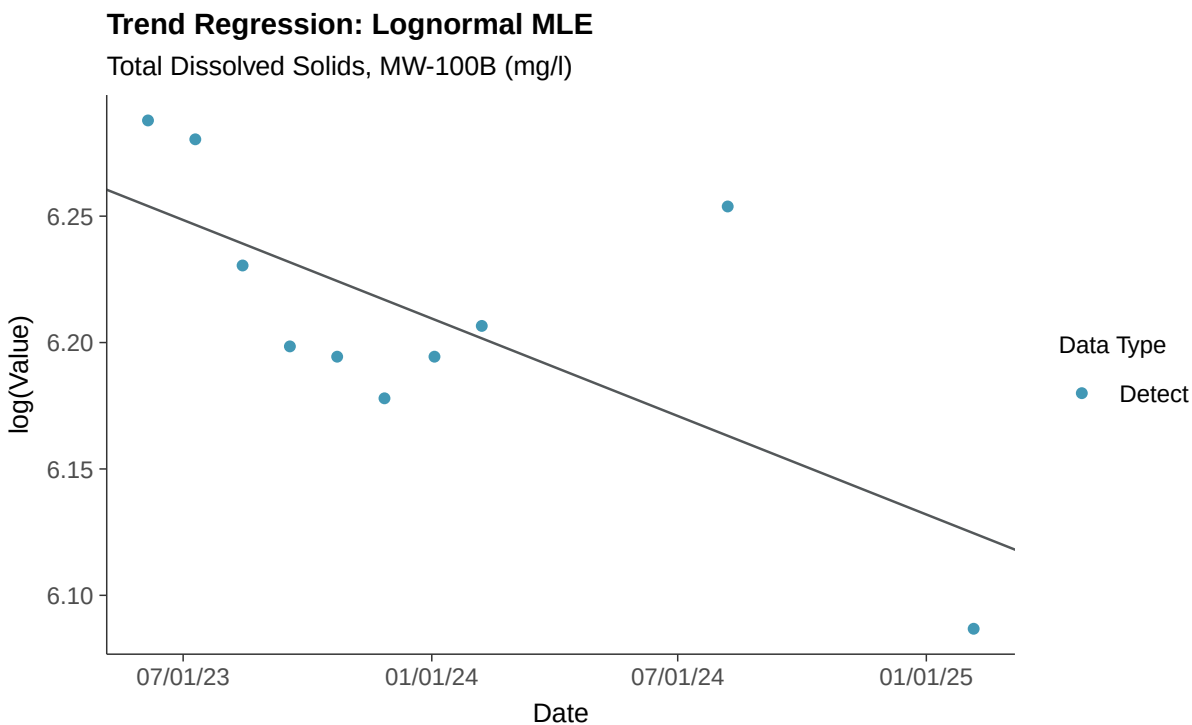
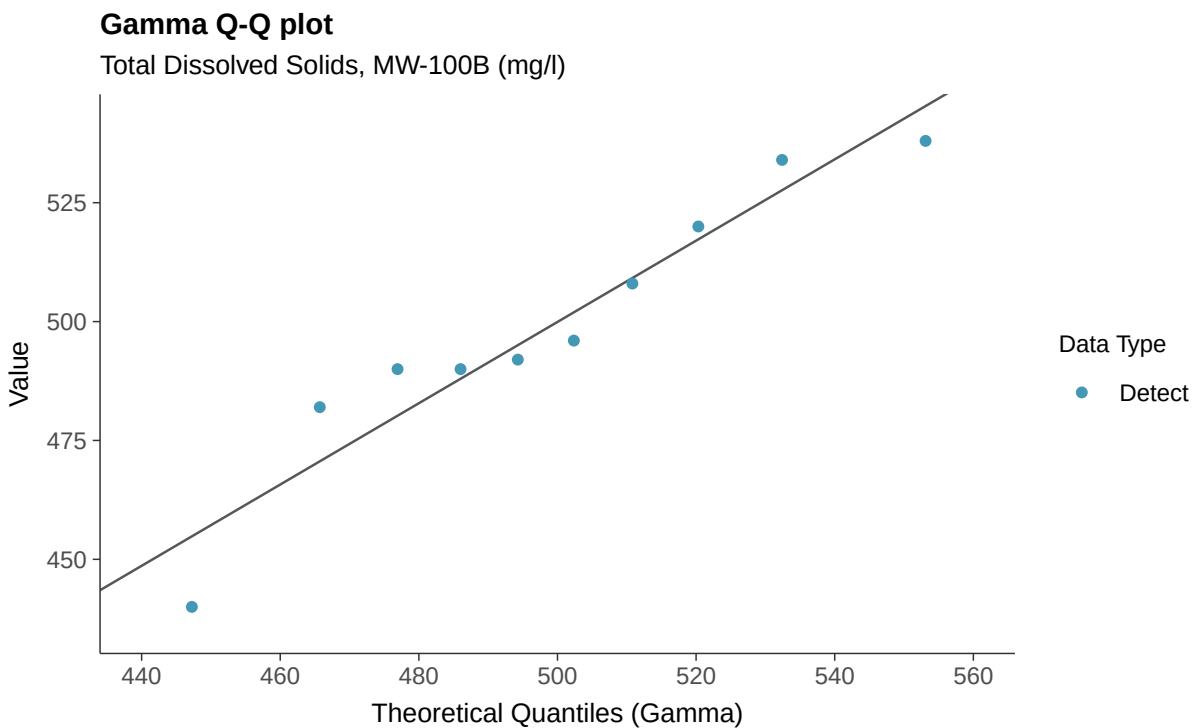
Total Dissolved Solids, MW-100B (mg/l)

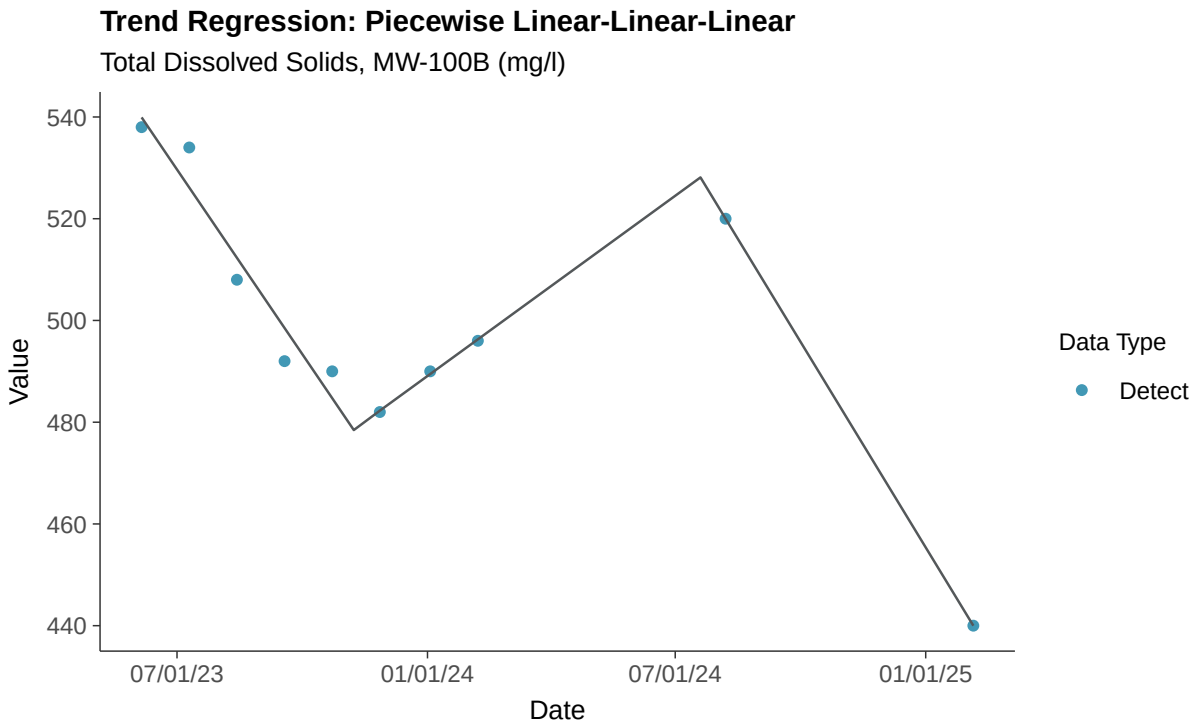
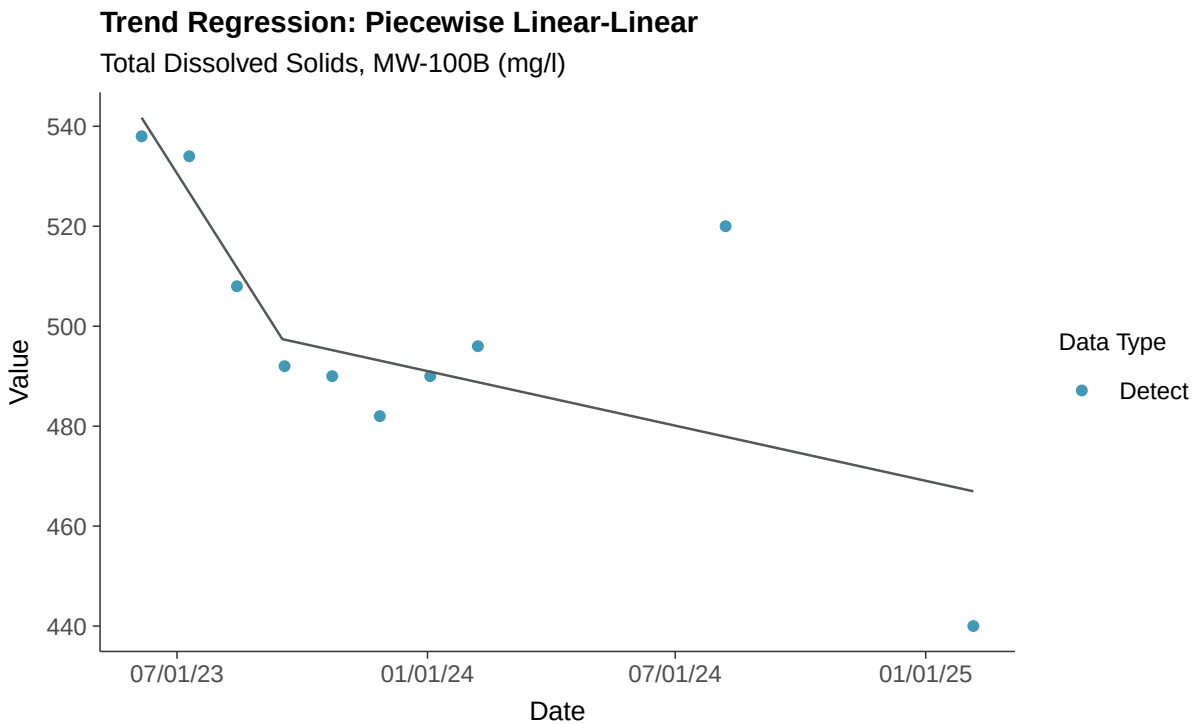


Lognormal Q-Q plot

Total Dissolved Solids, MW-100B (mg/l)



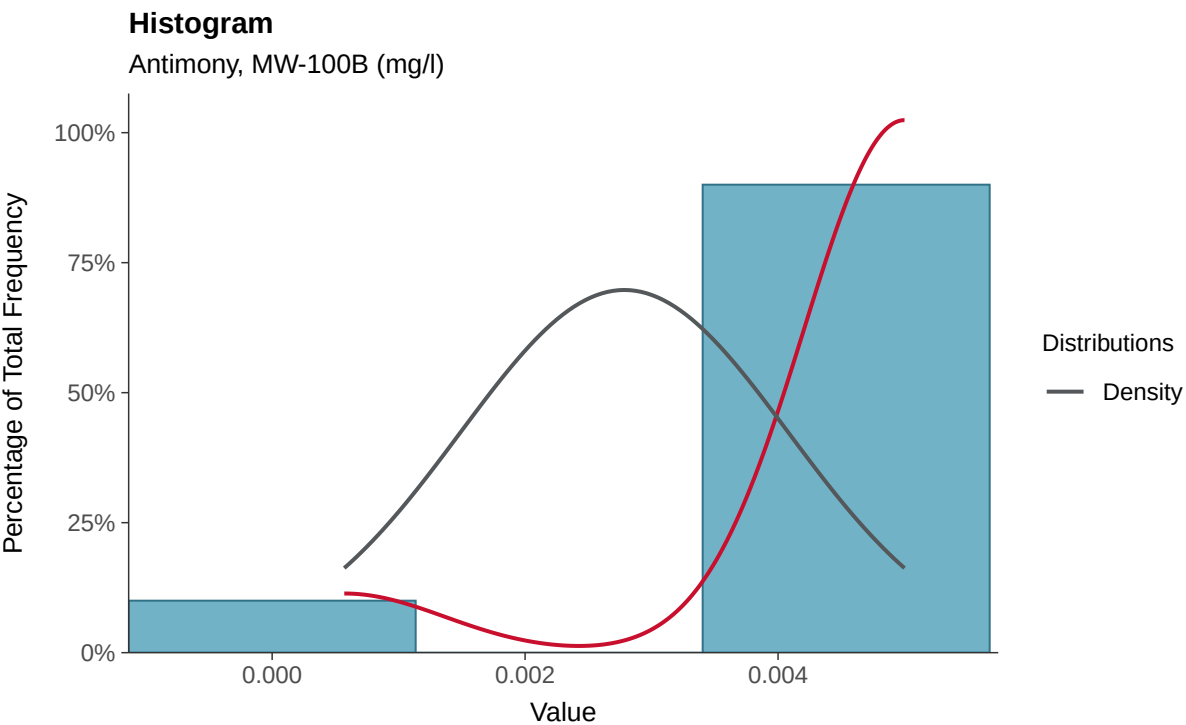
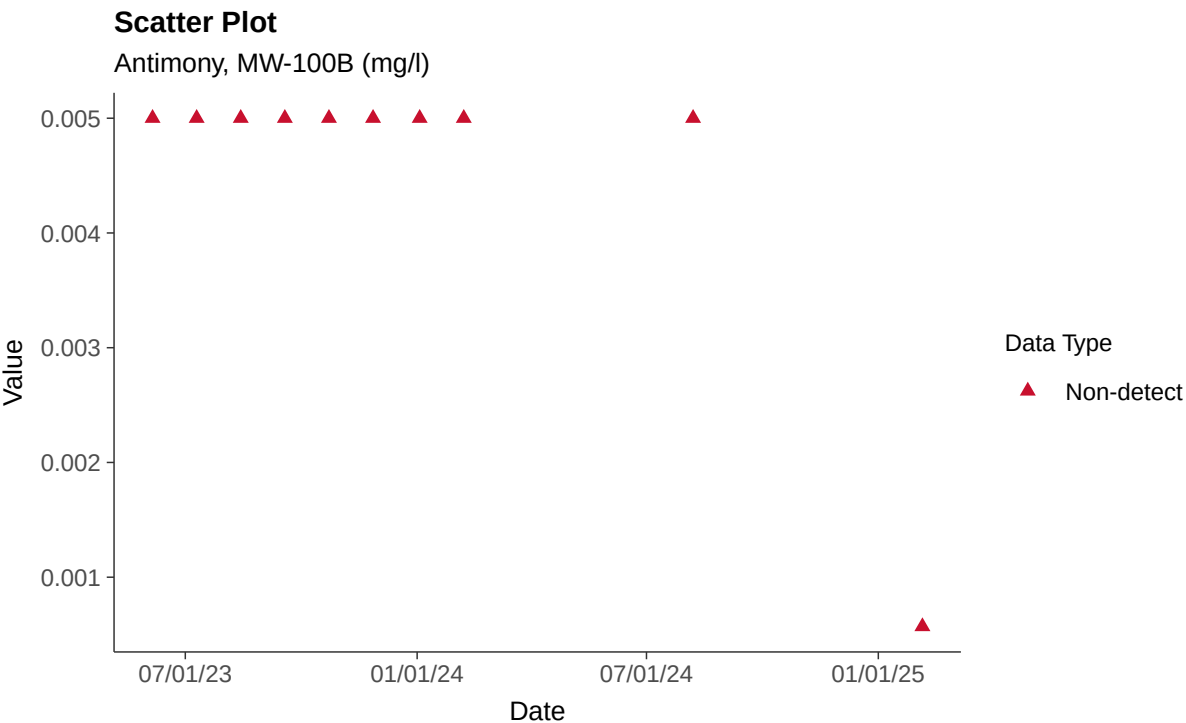


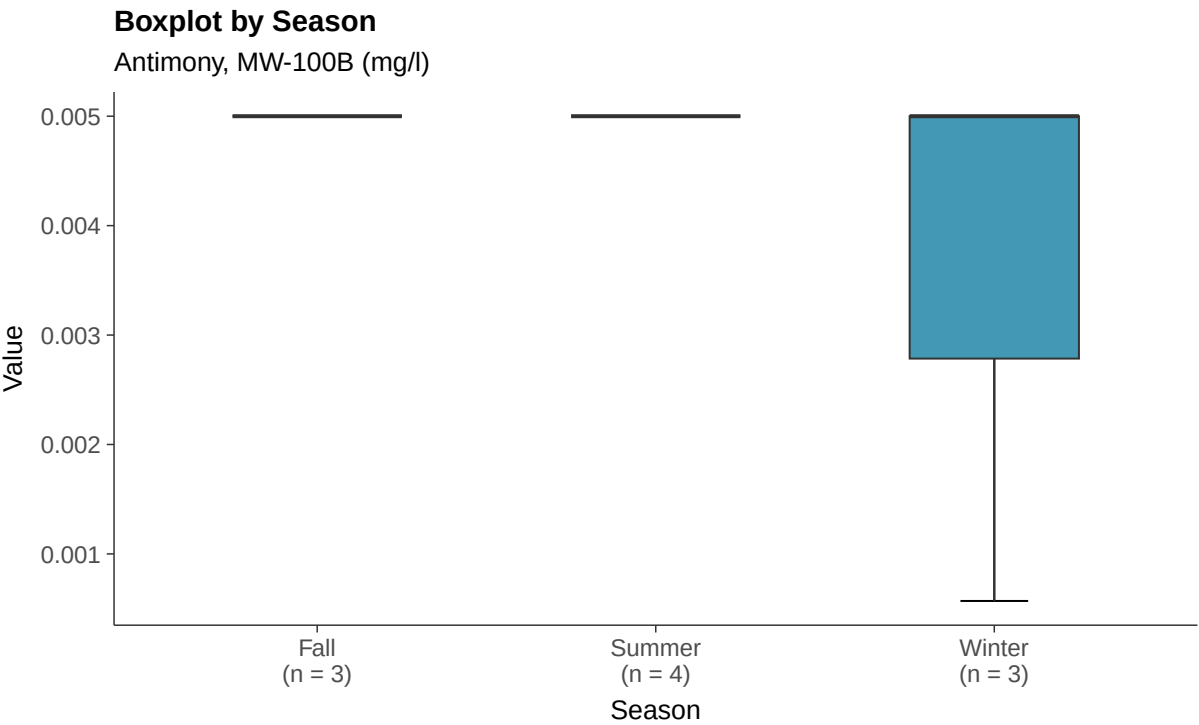
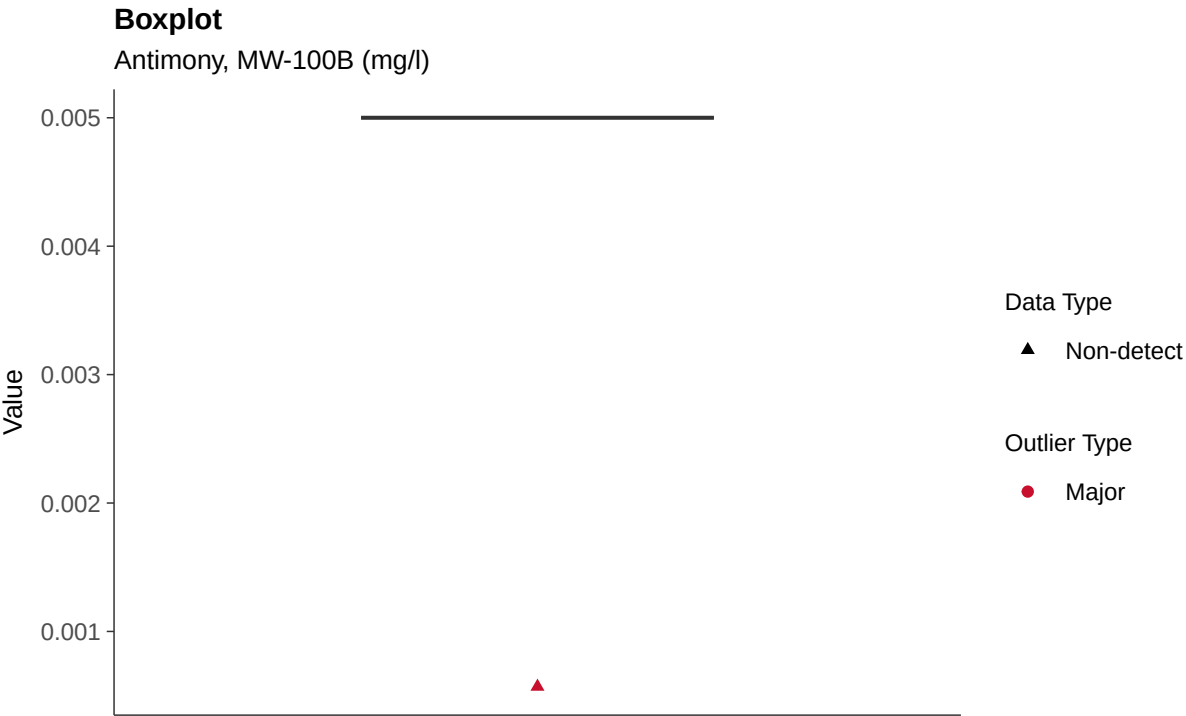




Appendix IV: Antimony, MW-100B

ID: 31_3_101

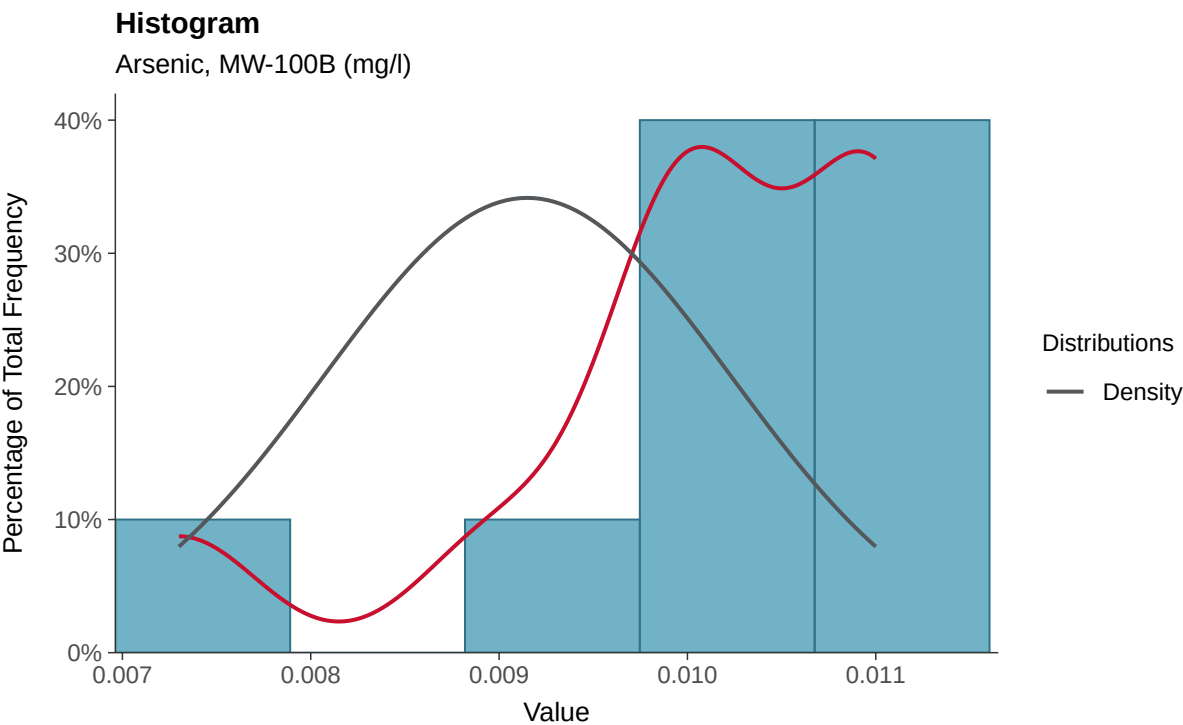
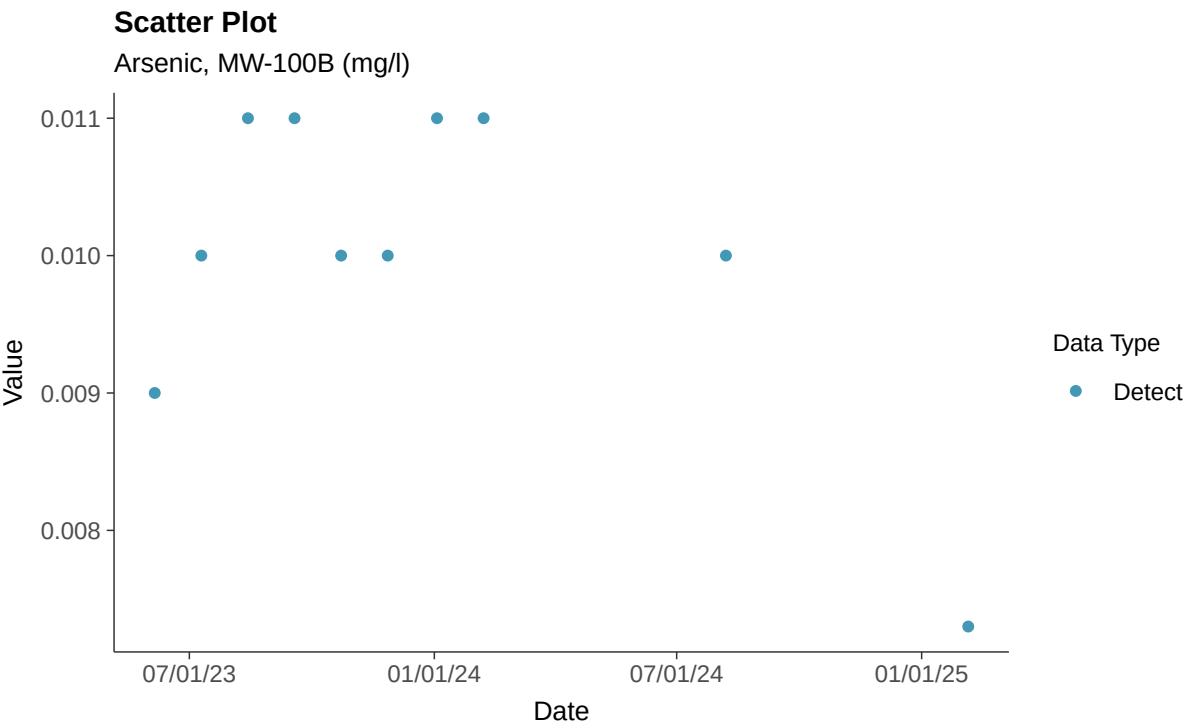


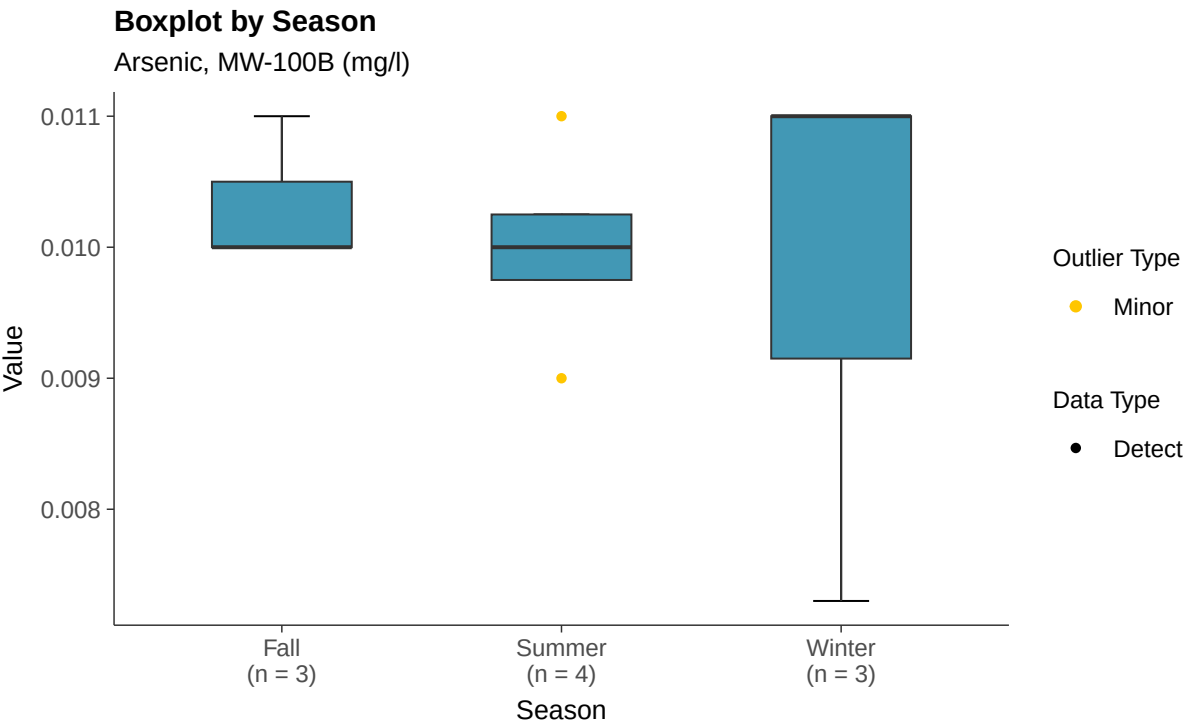
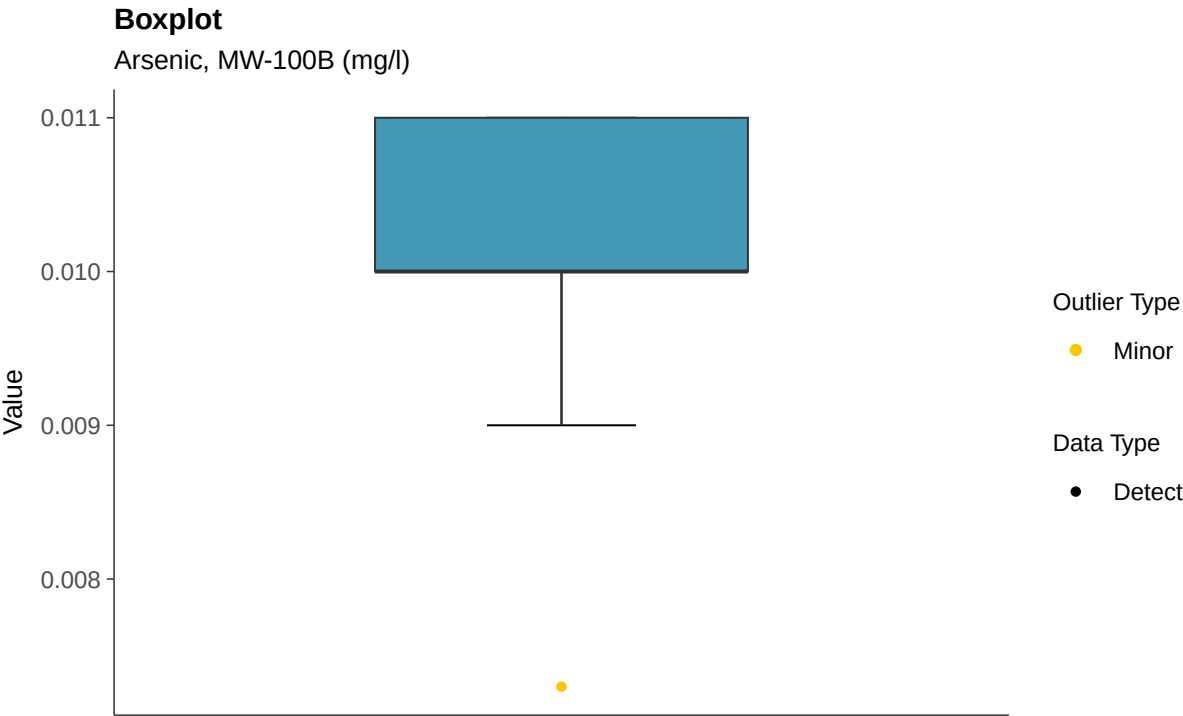


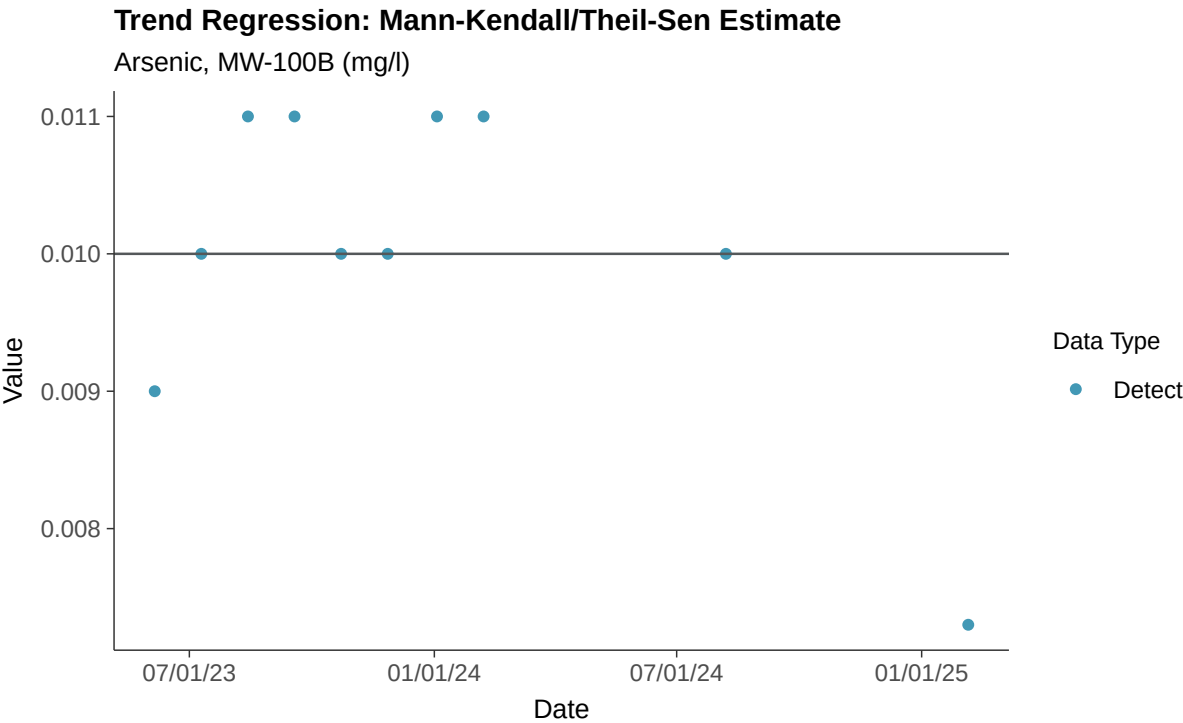
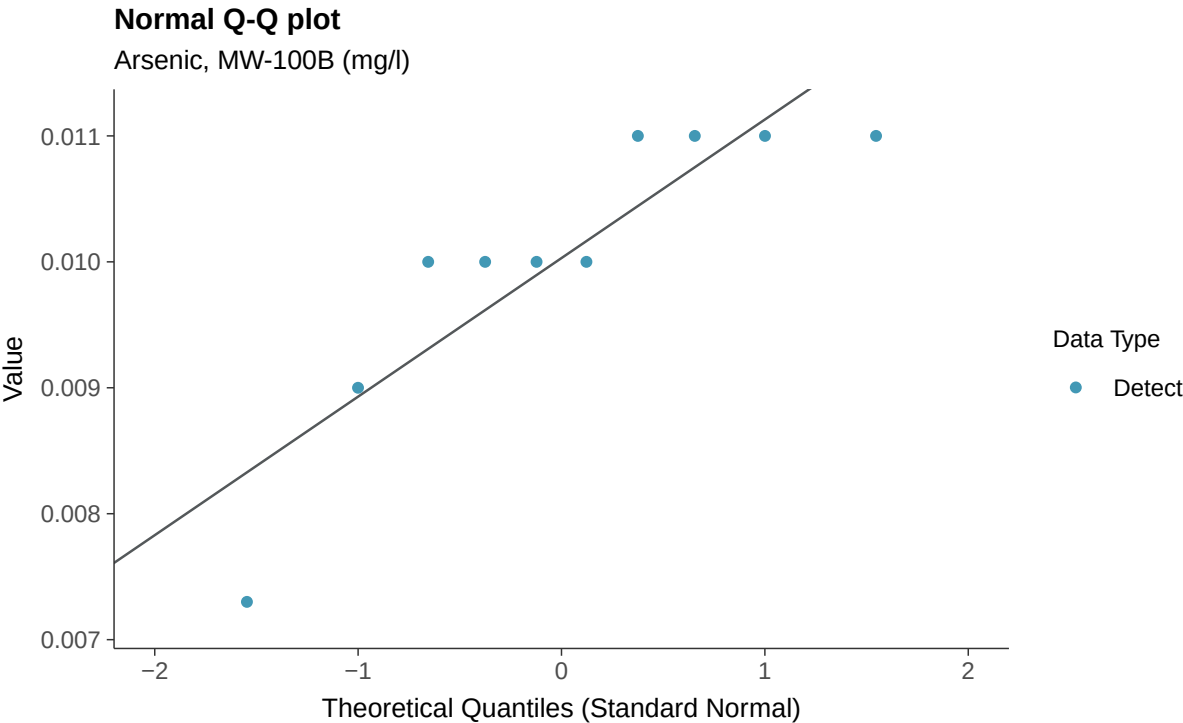


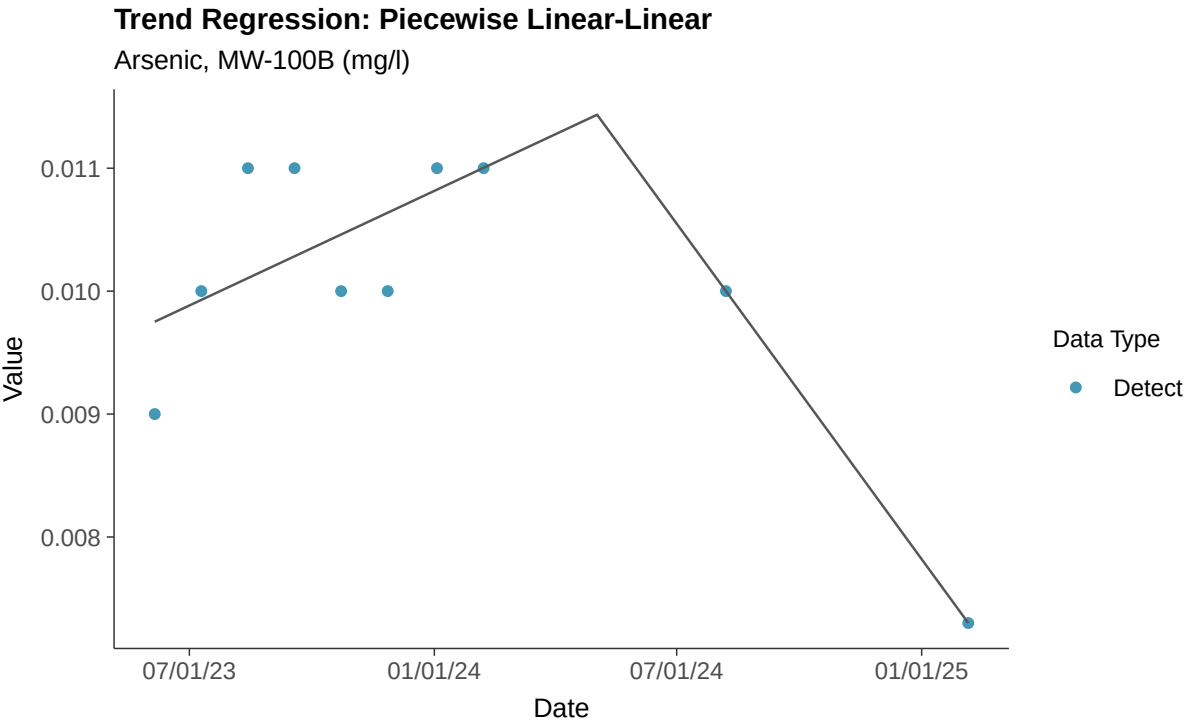
Appendix IV: Arsenic, MW-100B

ID: 31_3_102





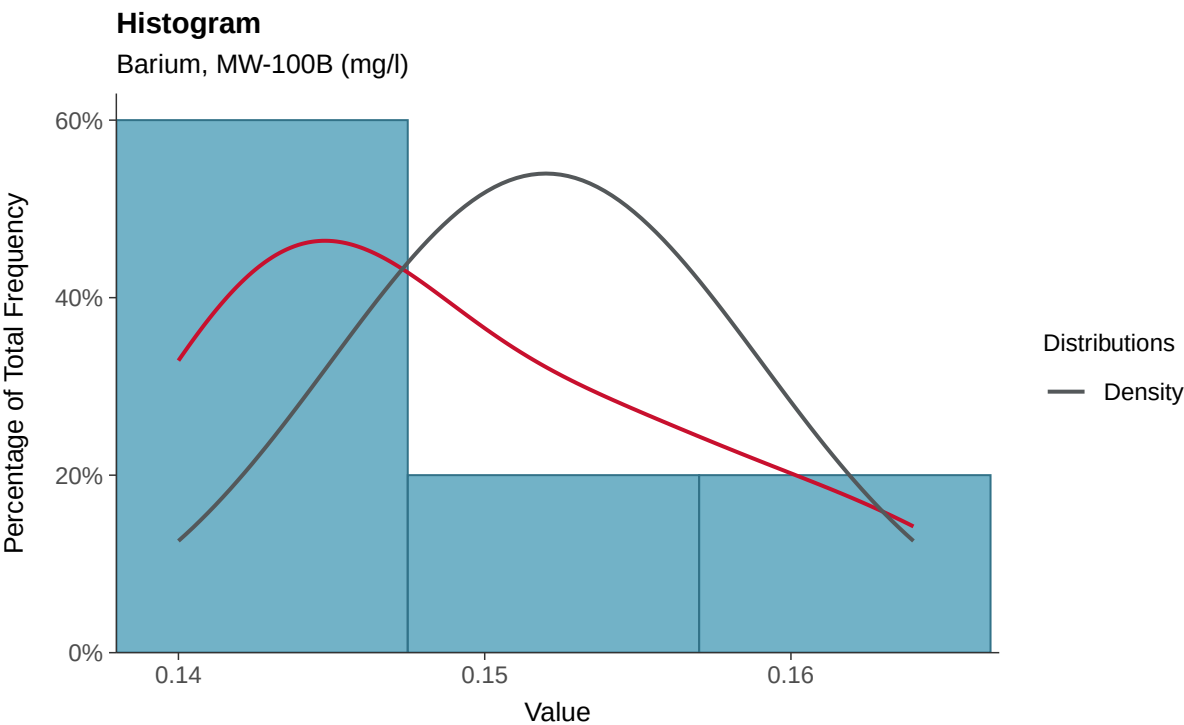
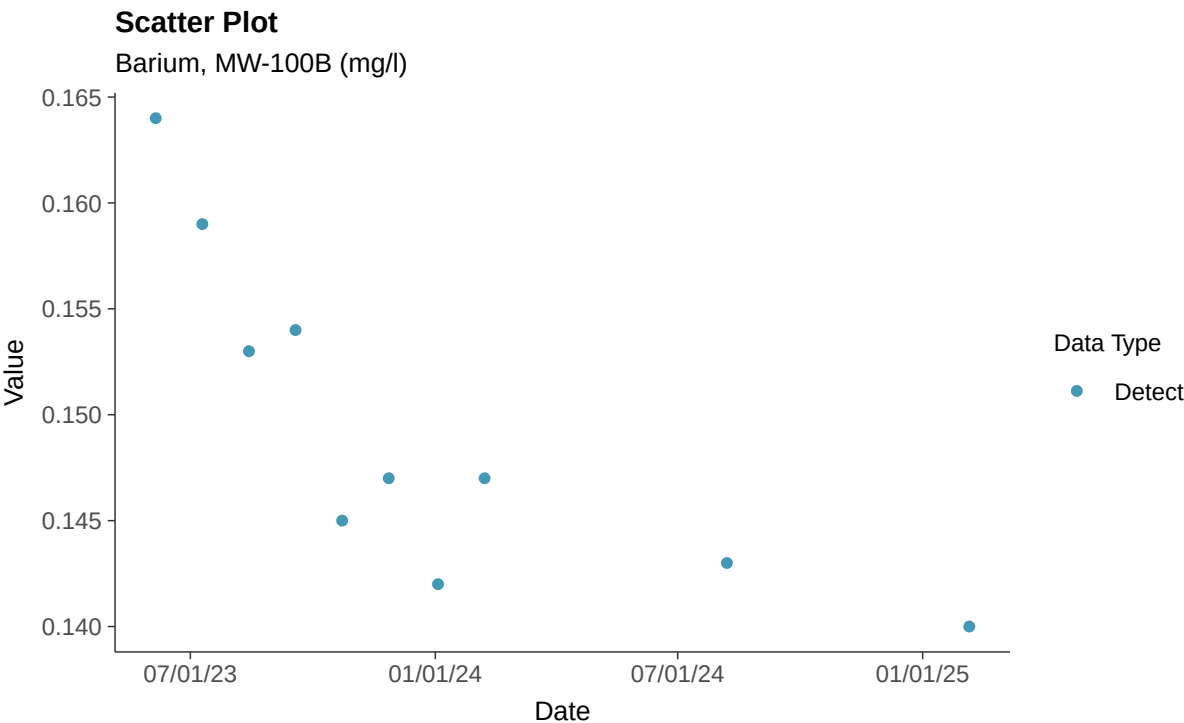


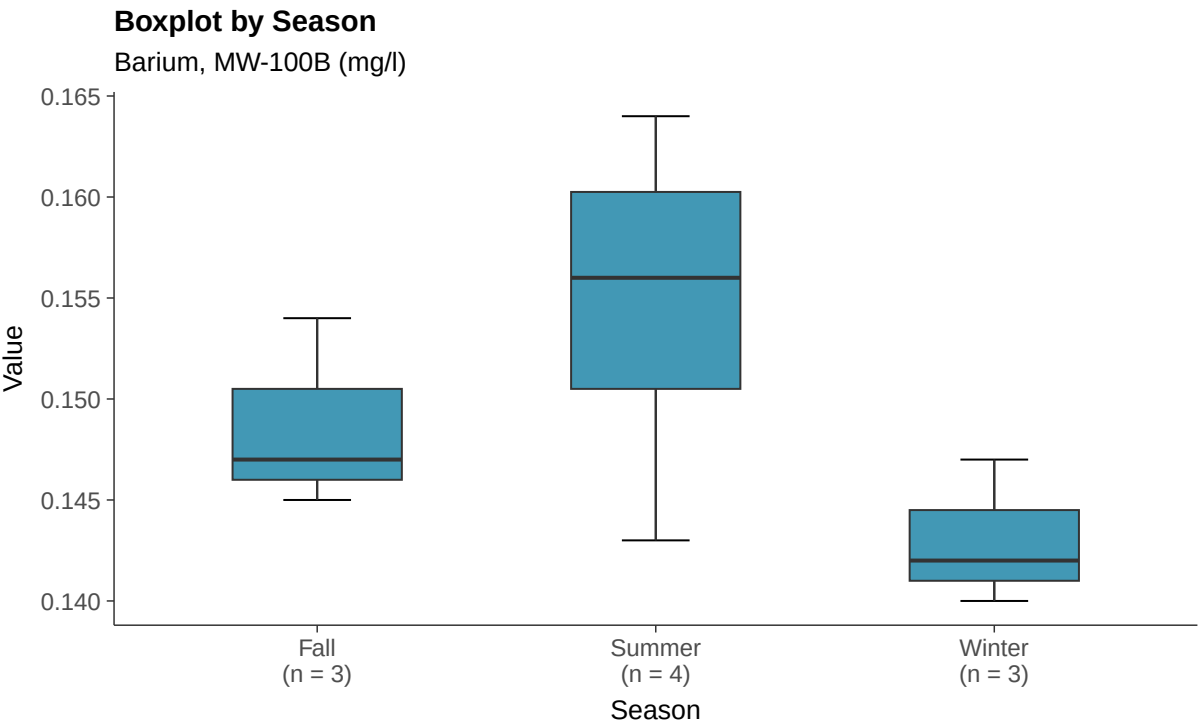
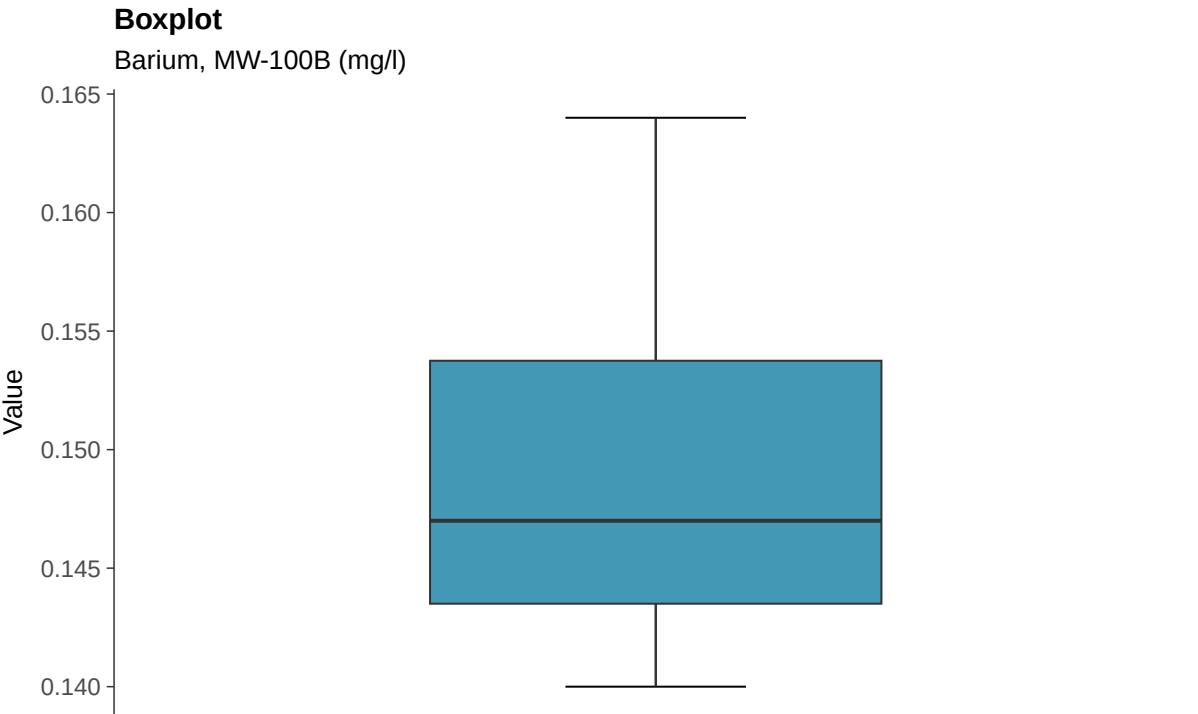


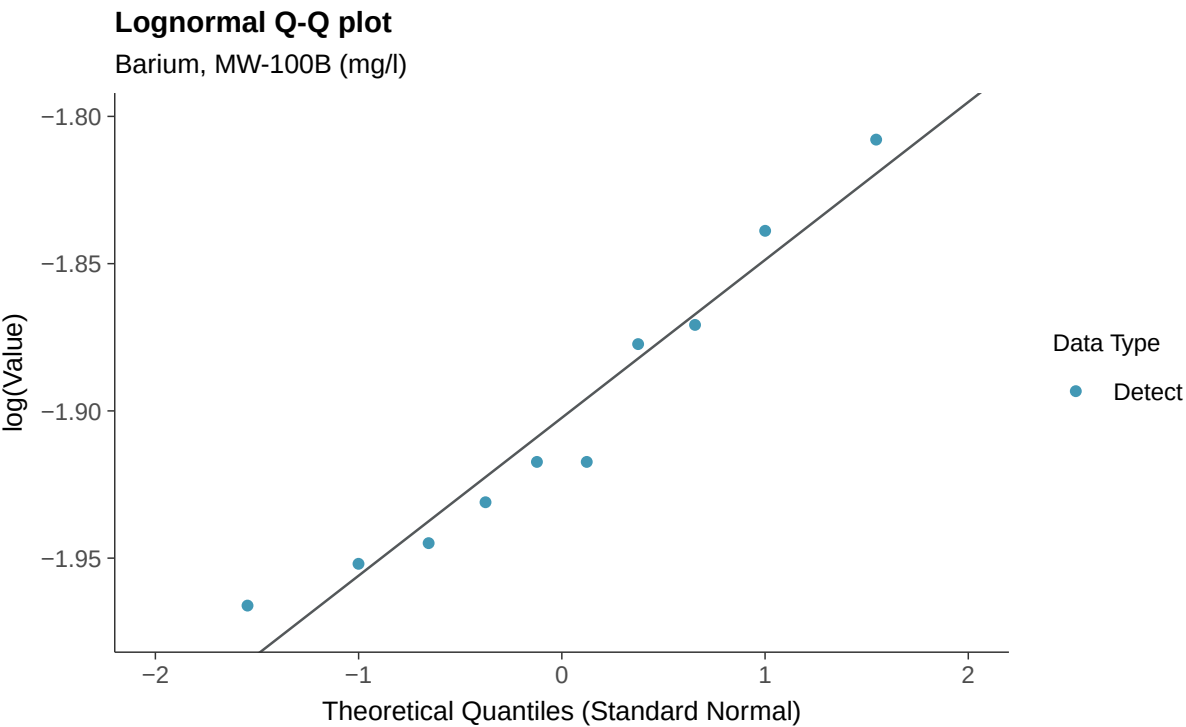
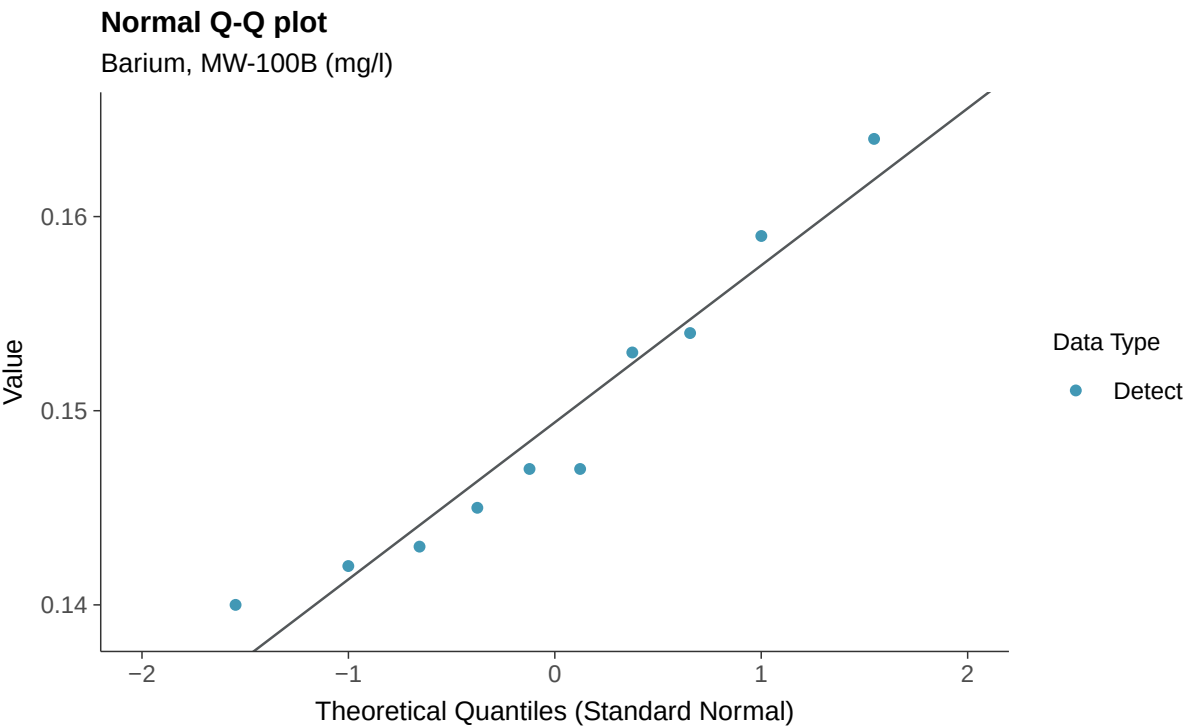


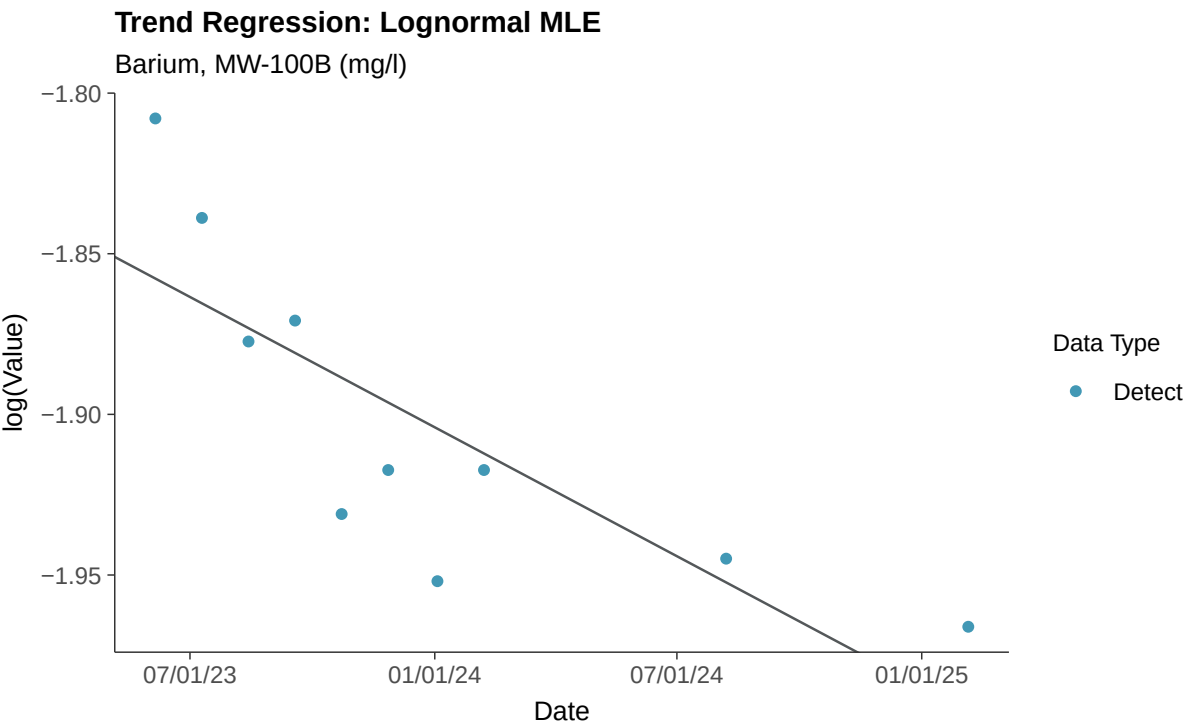
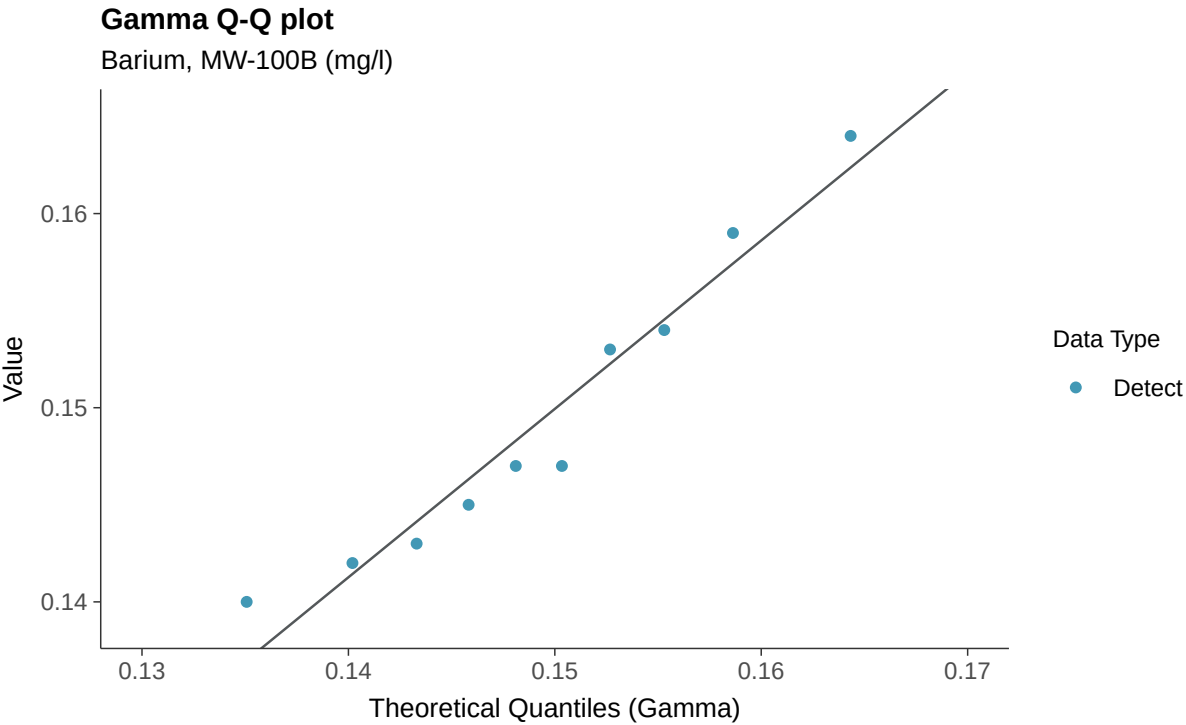
Appendix IV: Barium, MW-100B

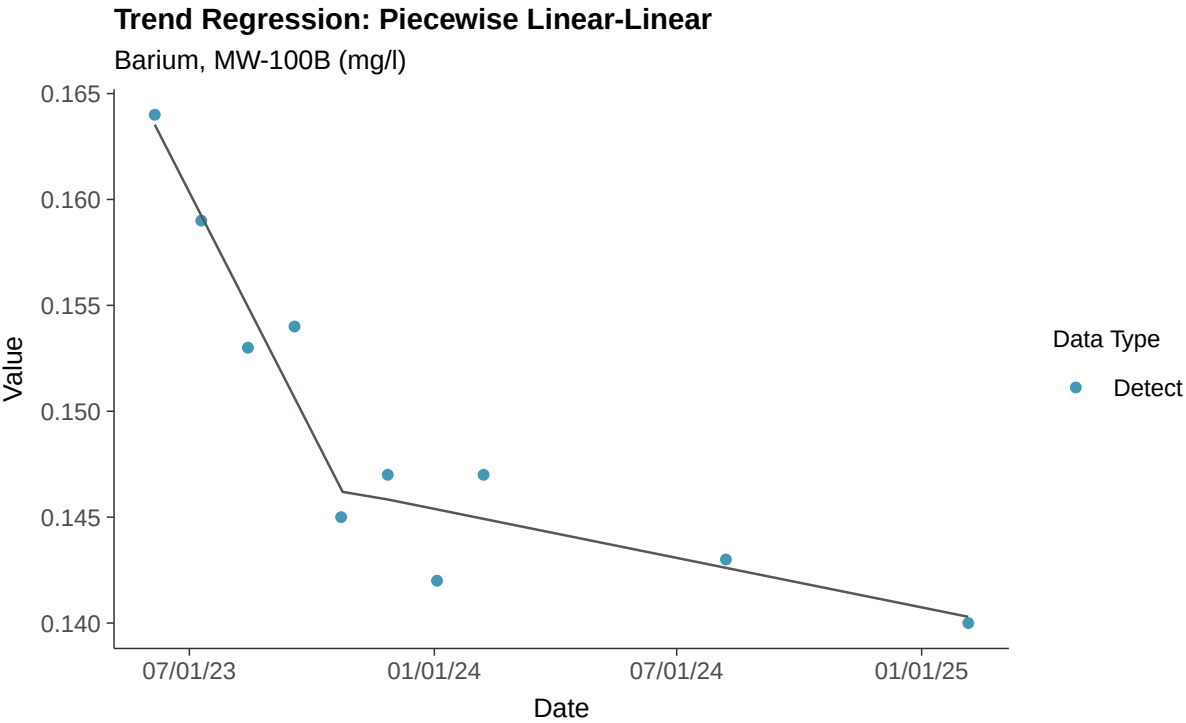
ID: 31_3_103







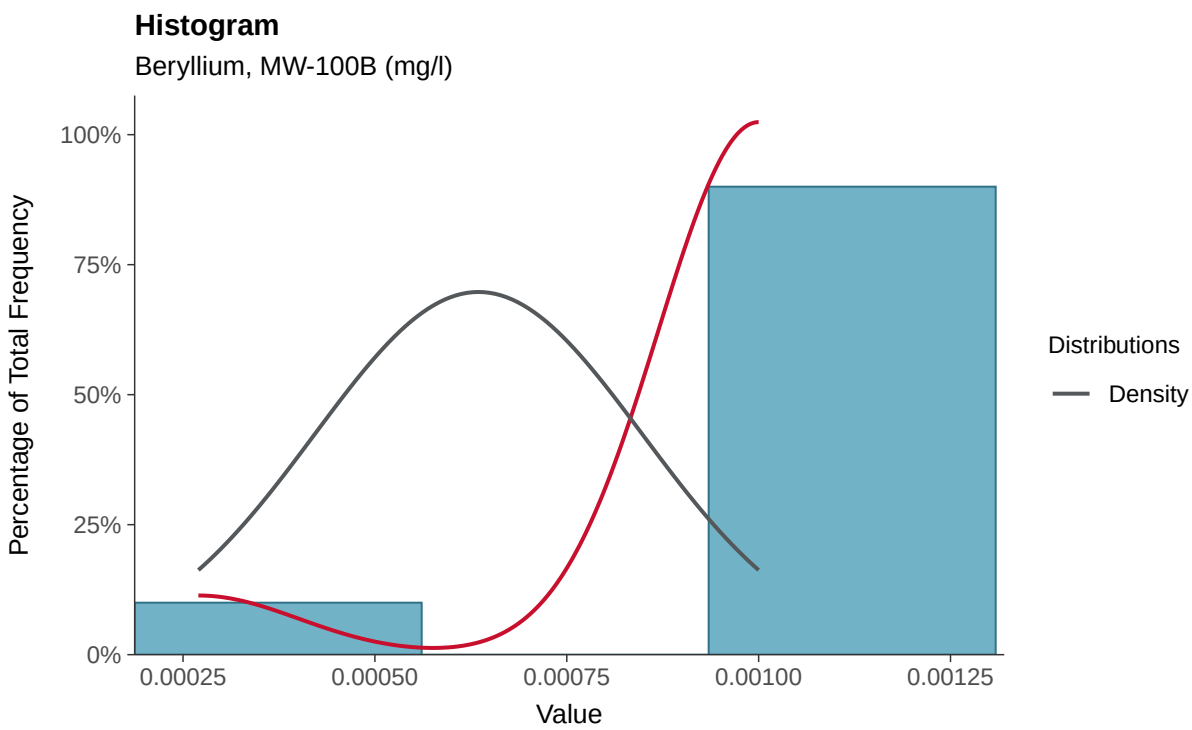
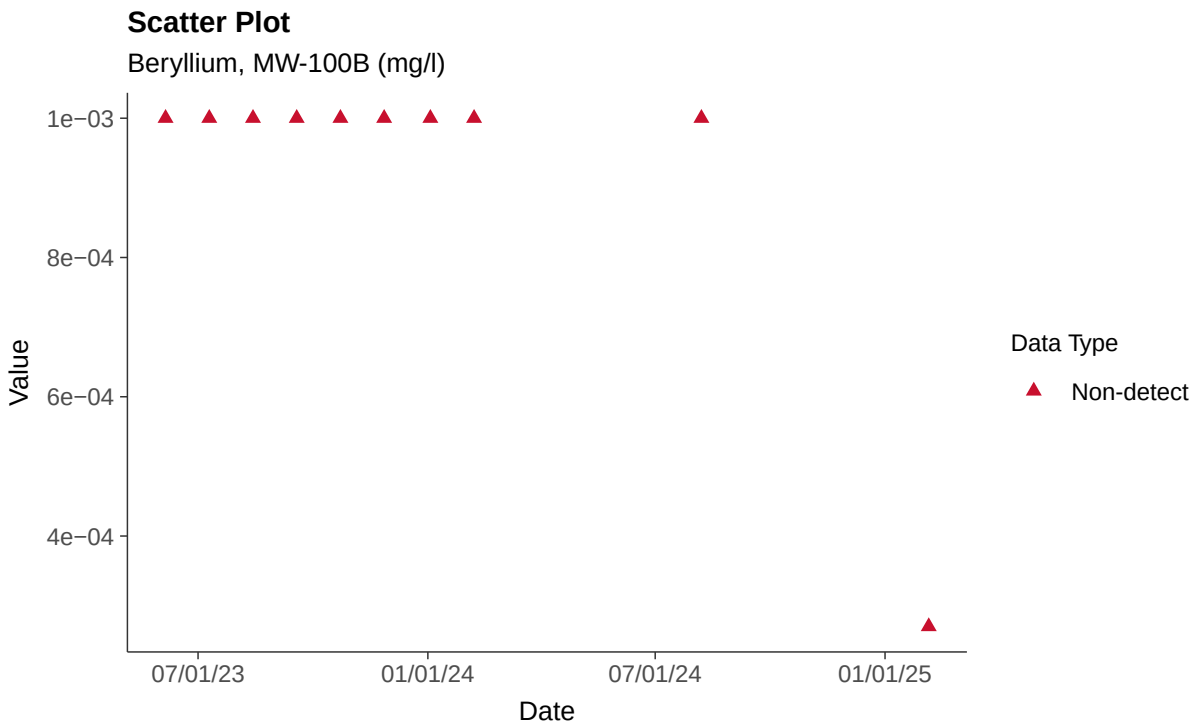


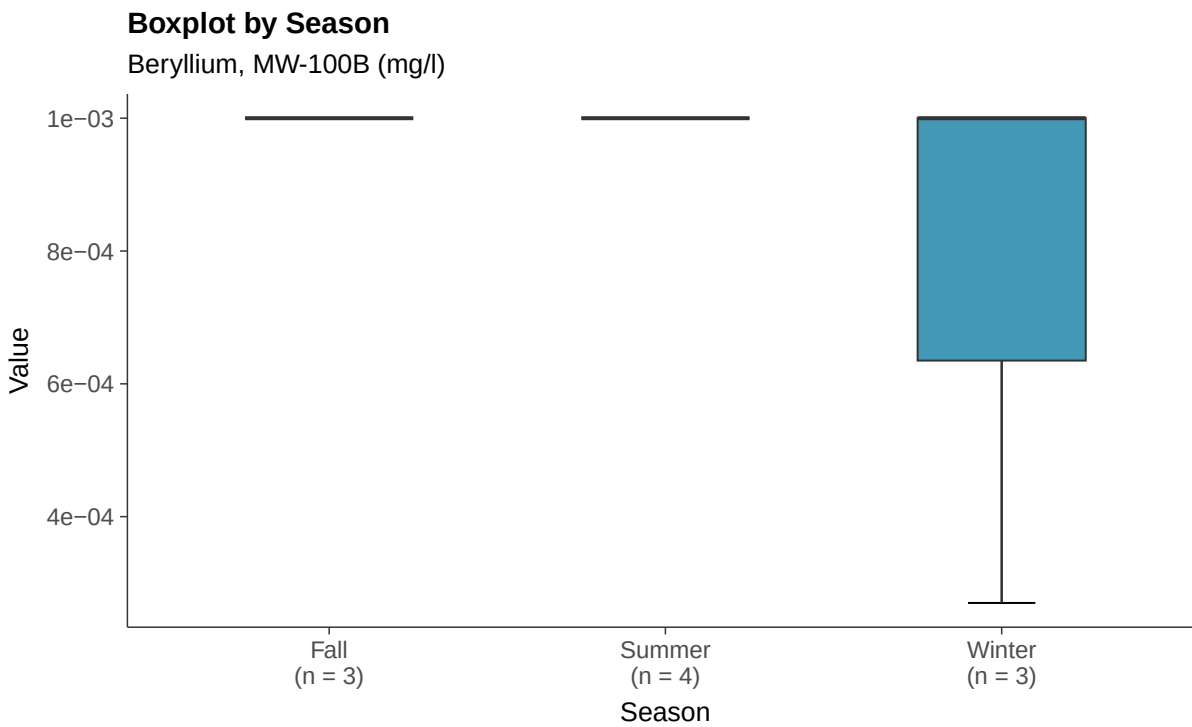
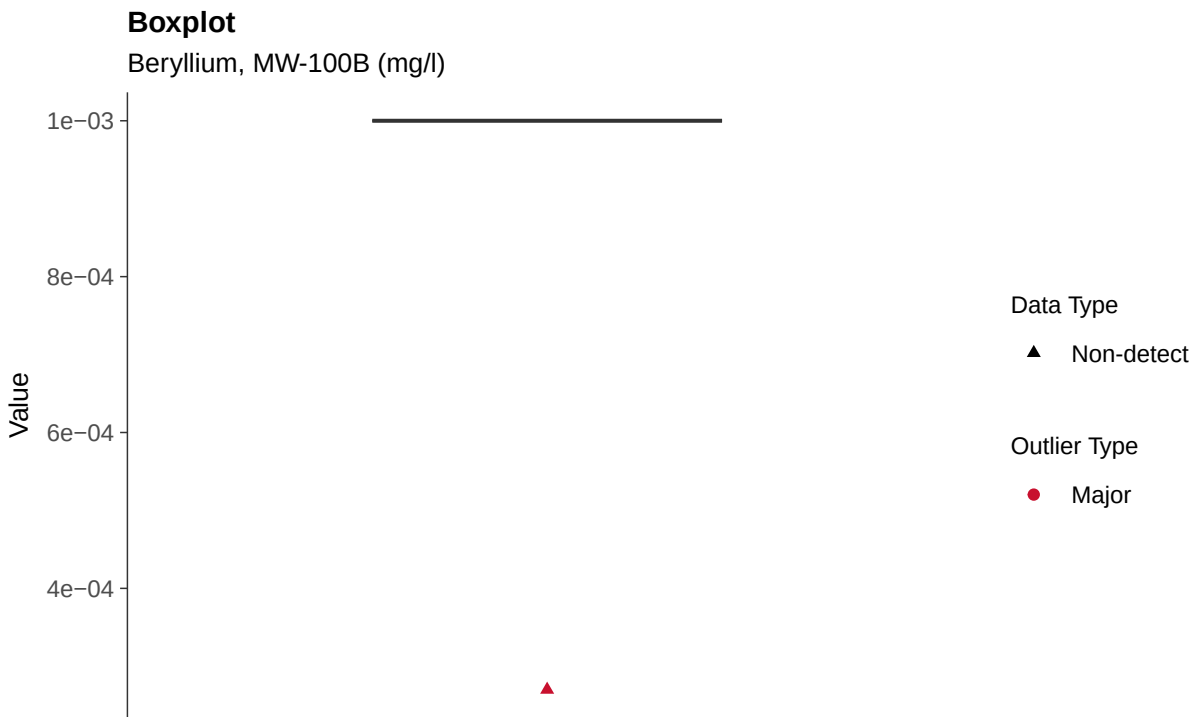




Appendix IV: Beryllium, MW-100B

ID: 31_3_104

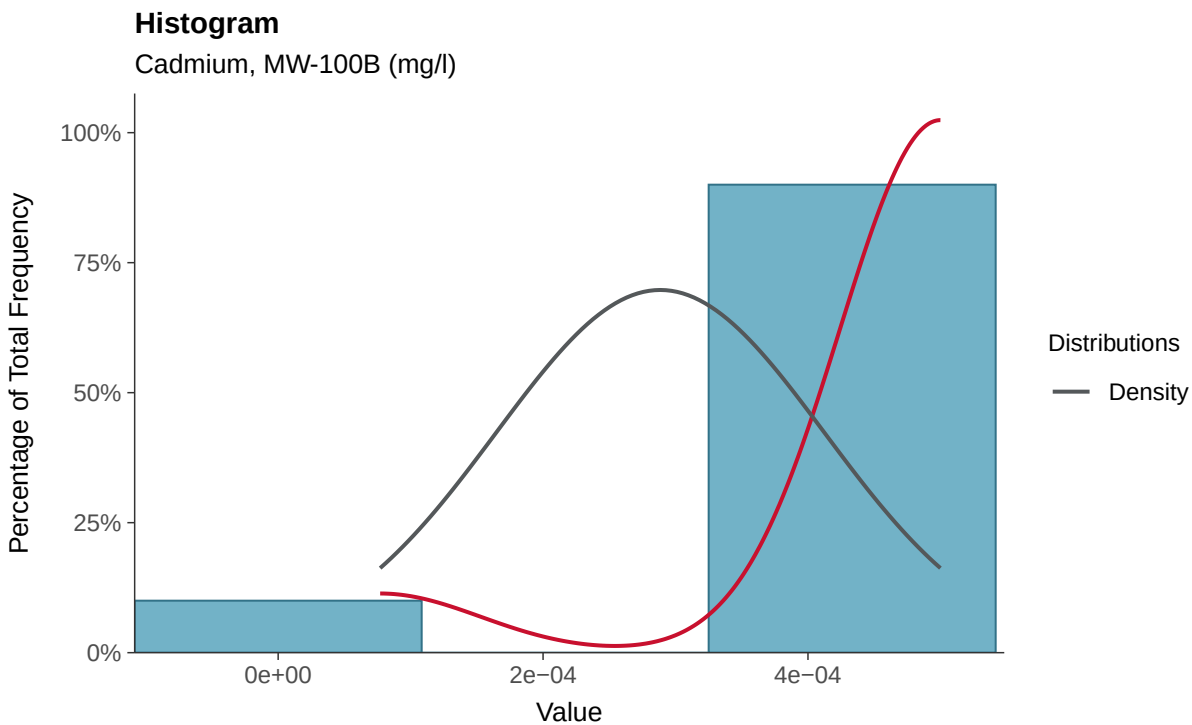
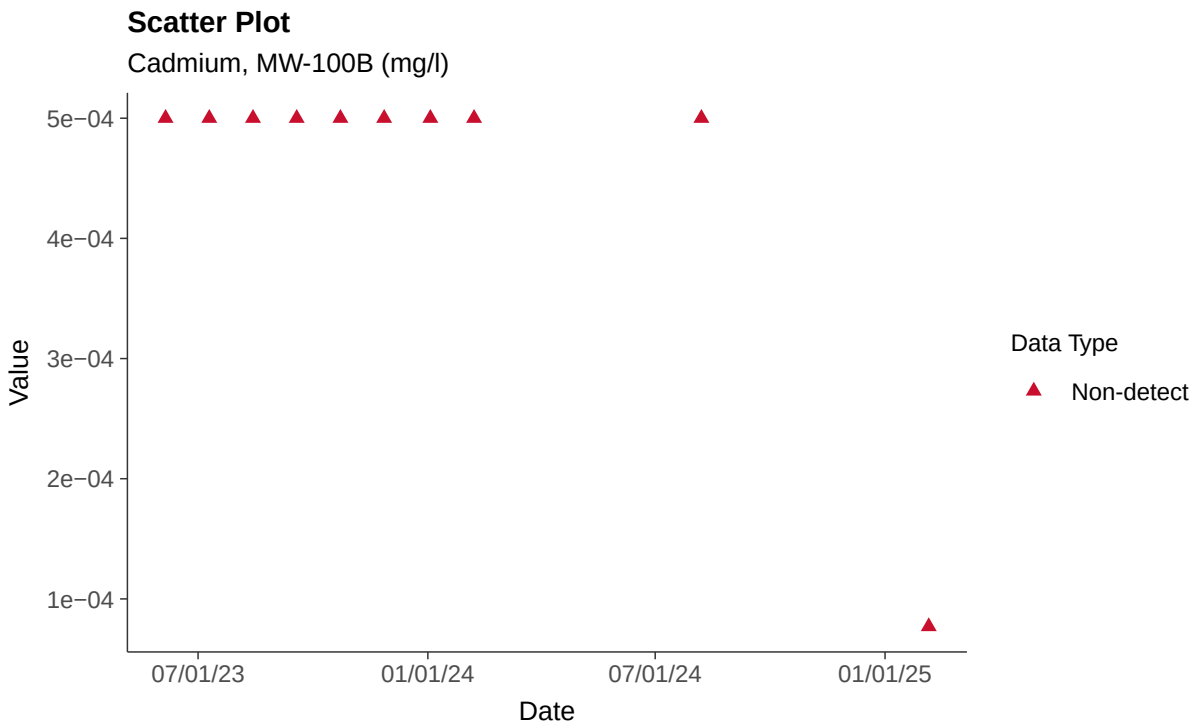


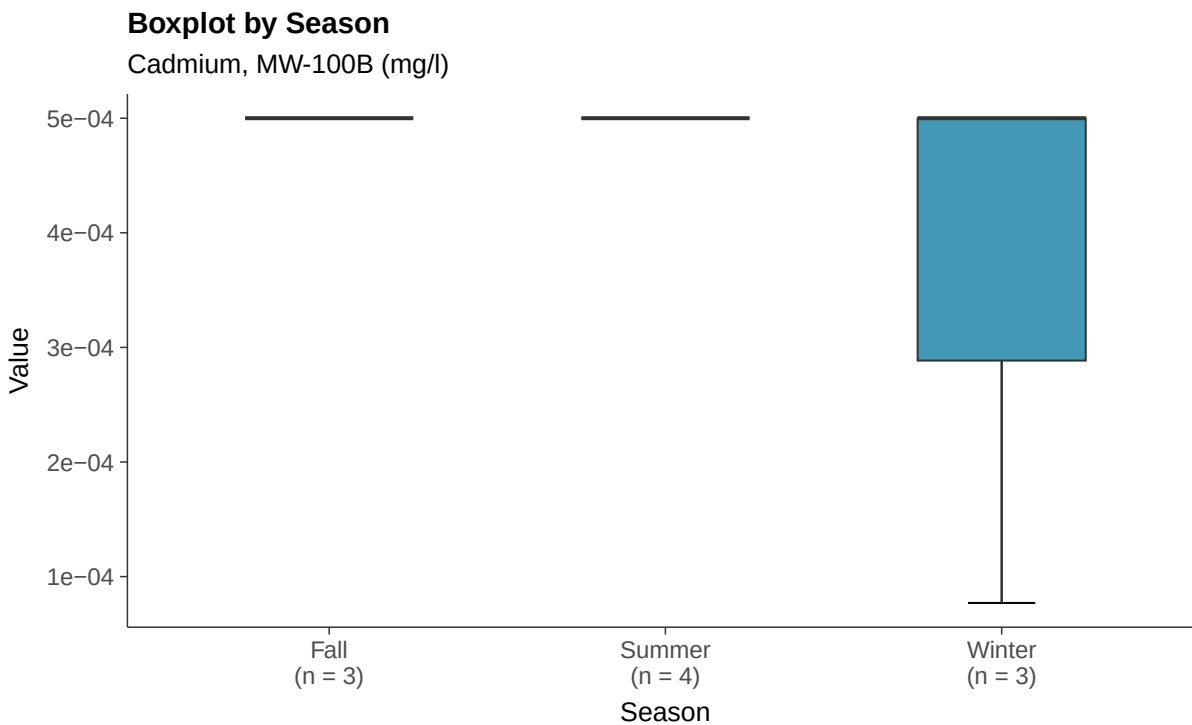
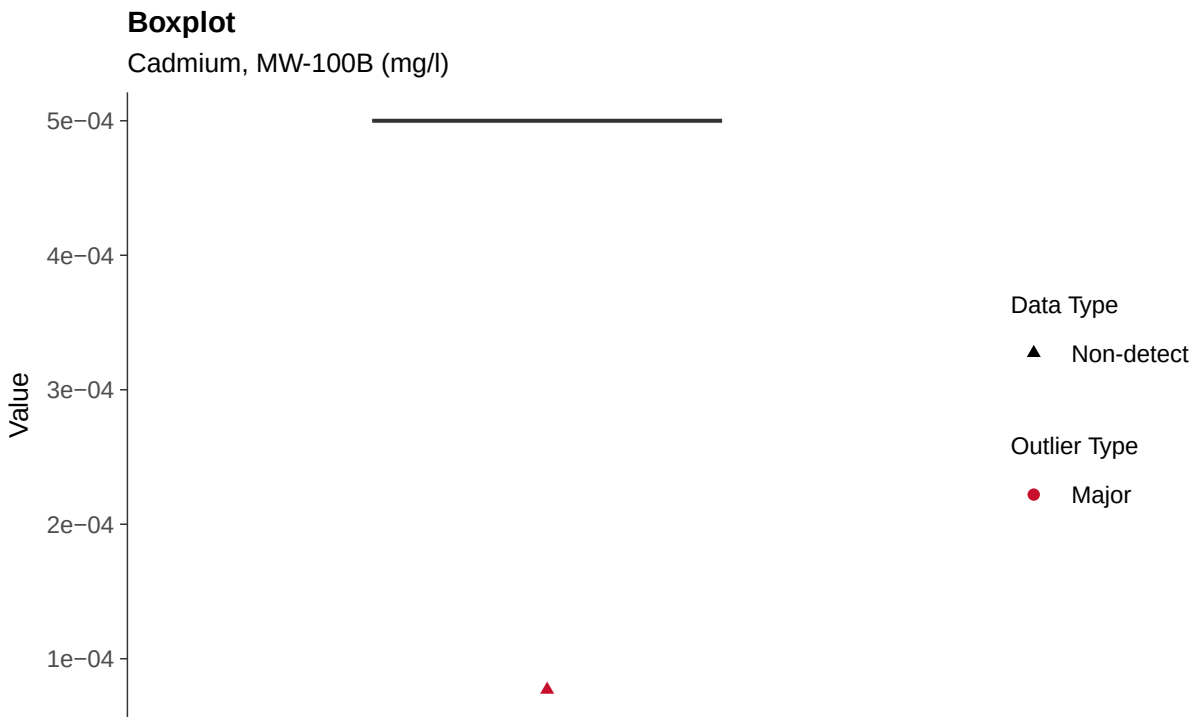




Appendix IV: Cadmium, MW-100B

ID: 31_3_106

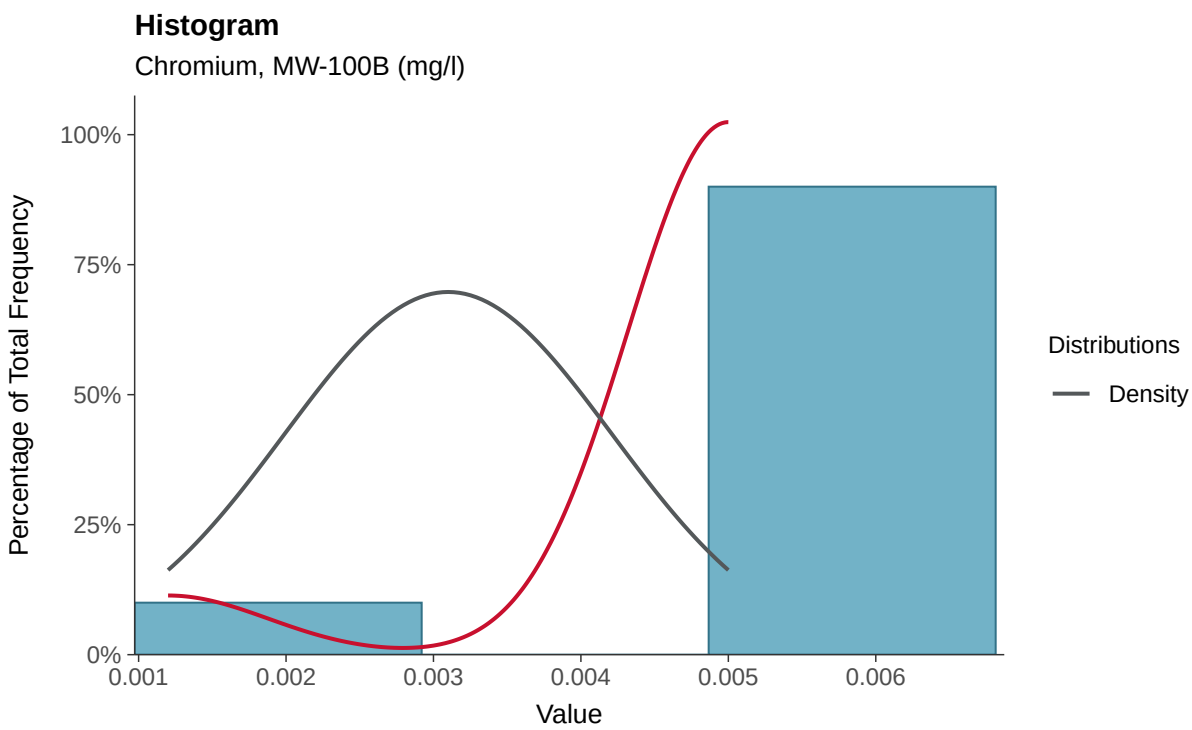
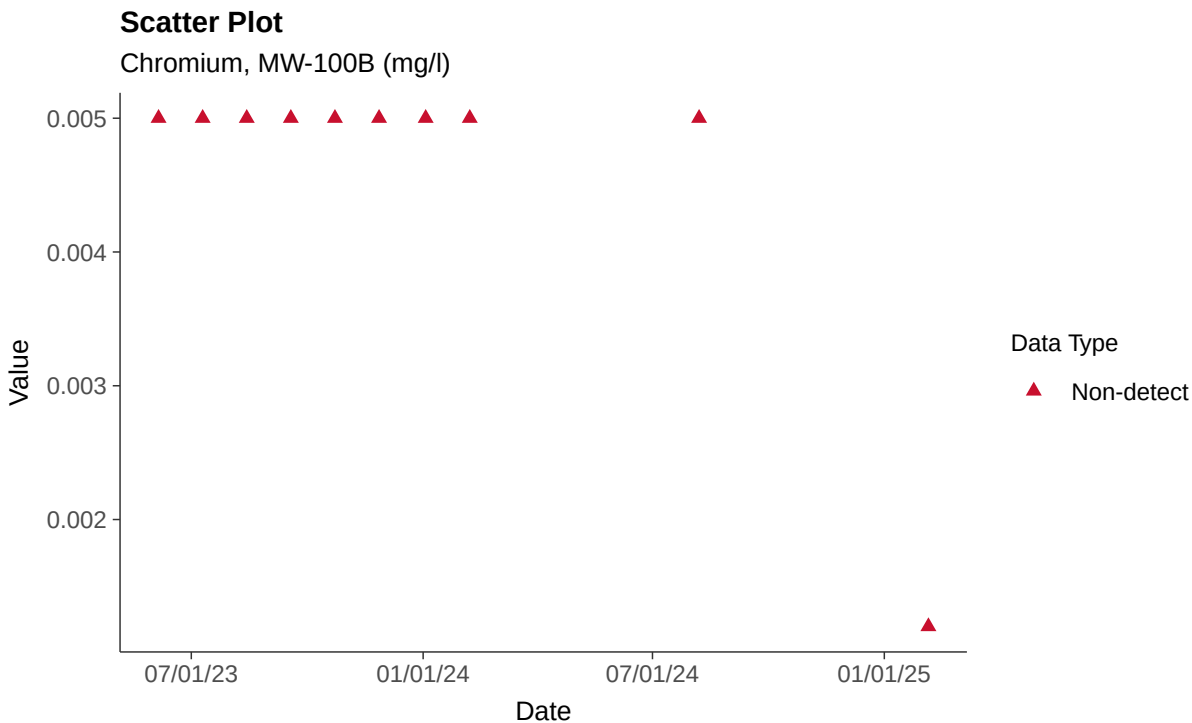


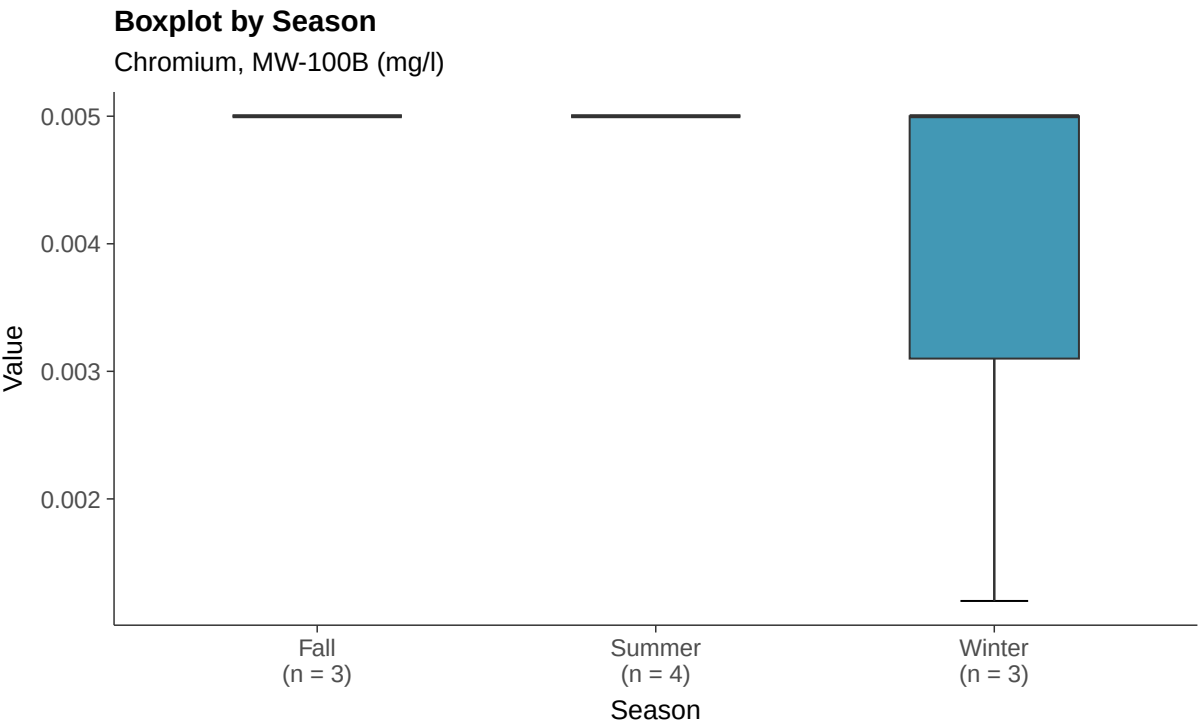
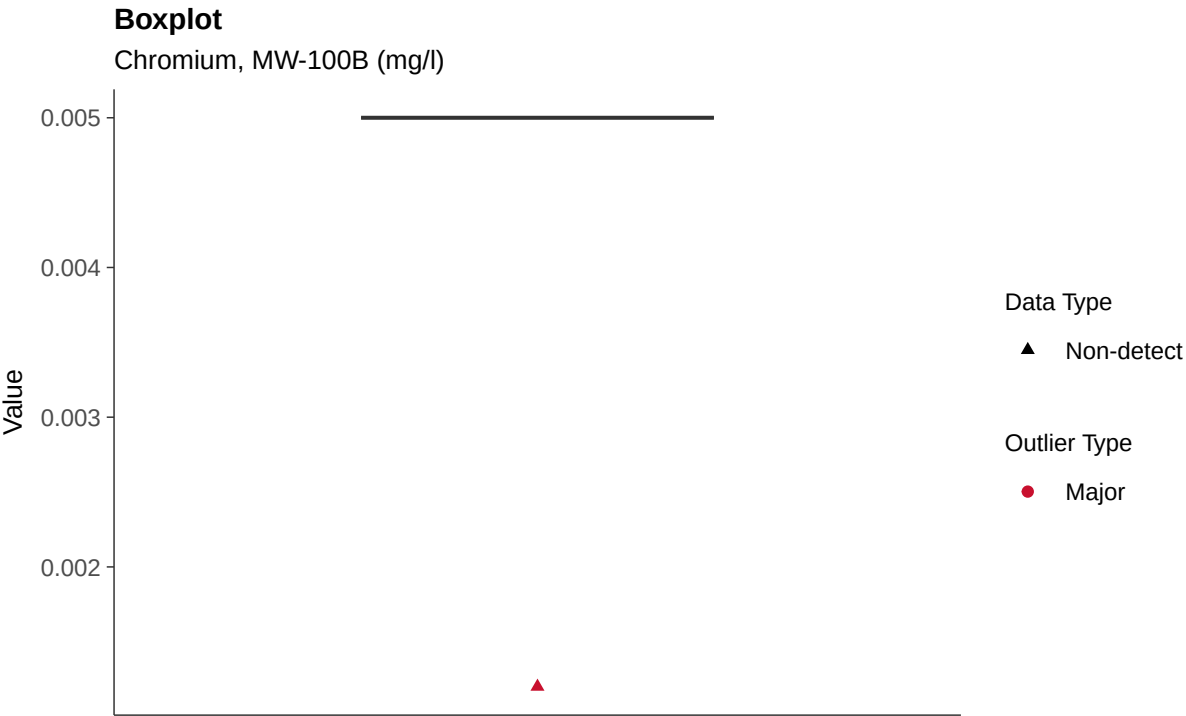




Appendix IV: Chromium, MW-100B

ID: 31_3_109

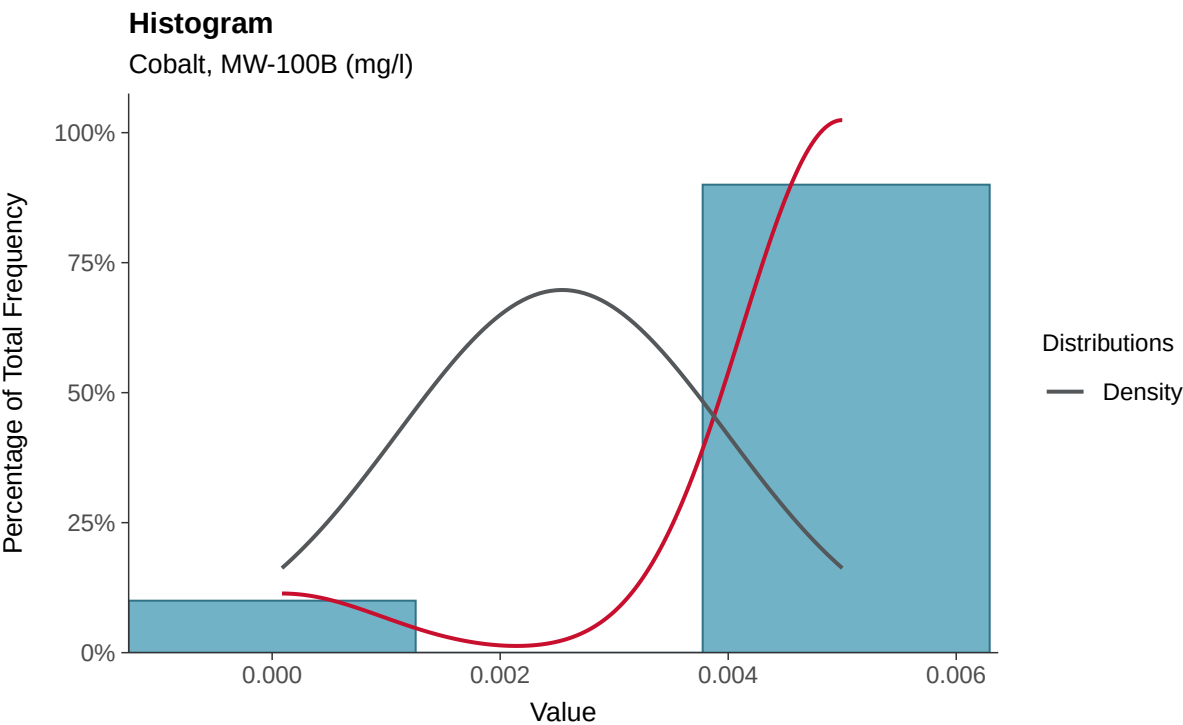
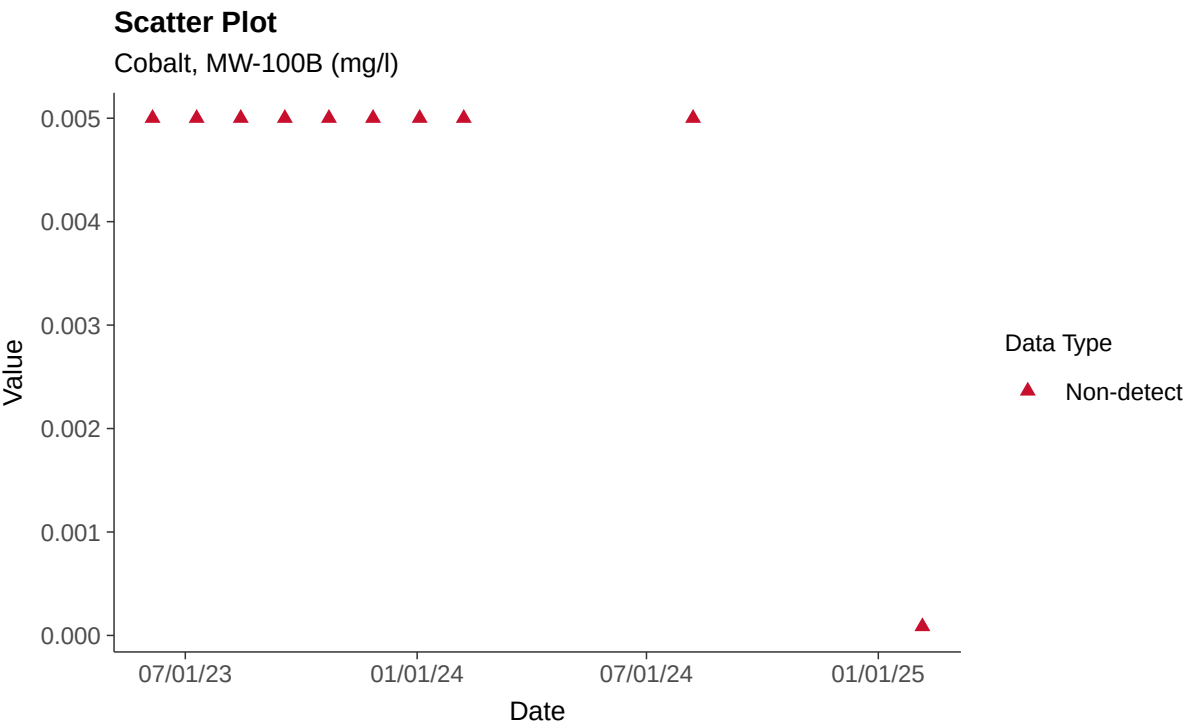


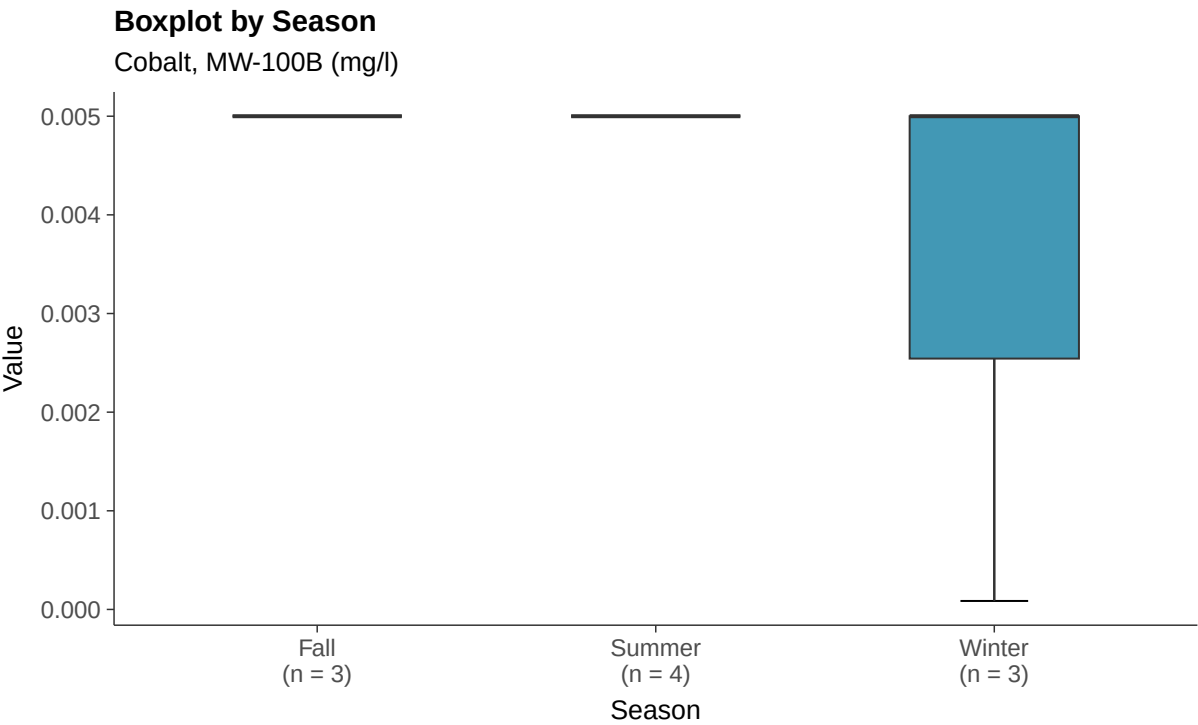
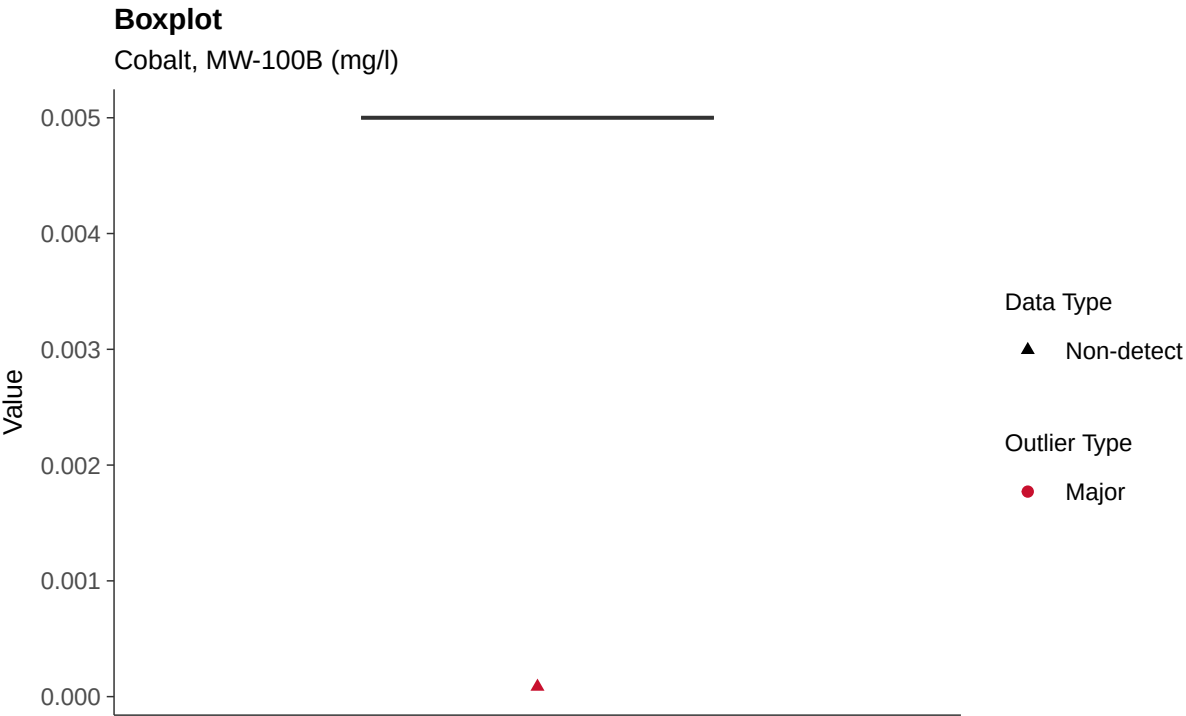




Appendix IV: Cobalt, MW-100B

ID: 31_3_110

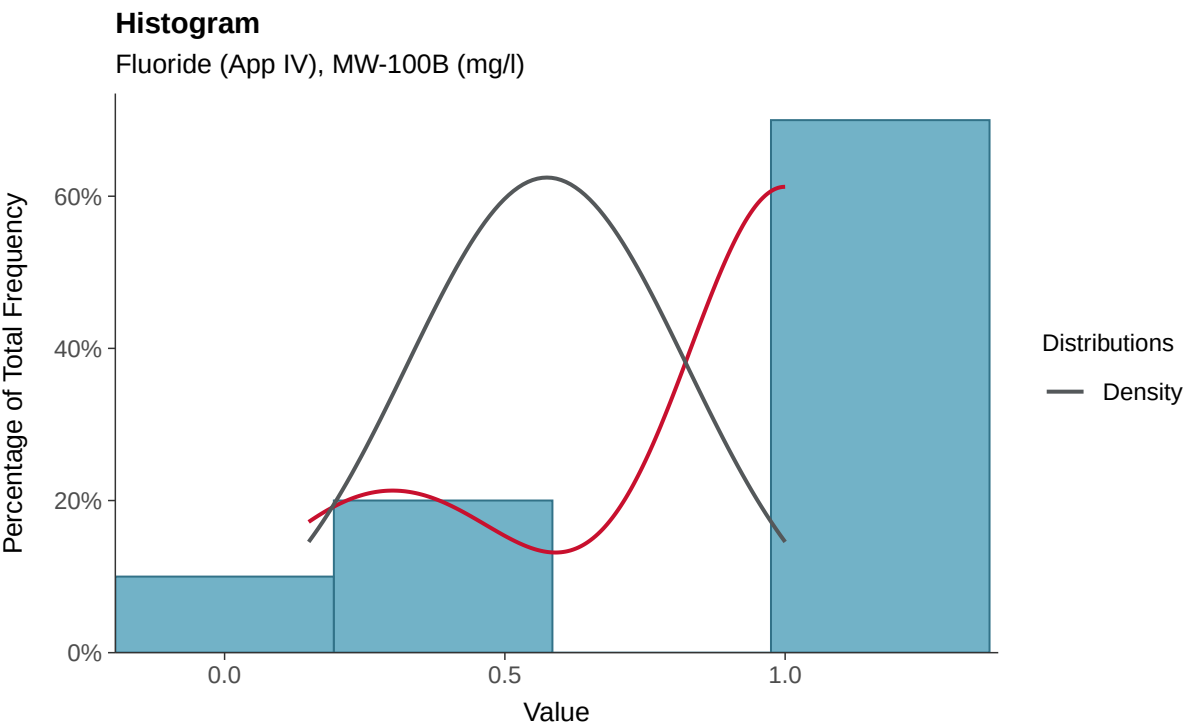
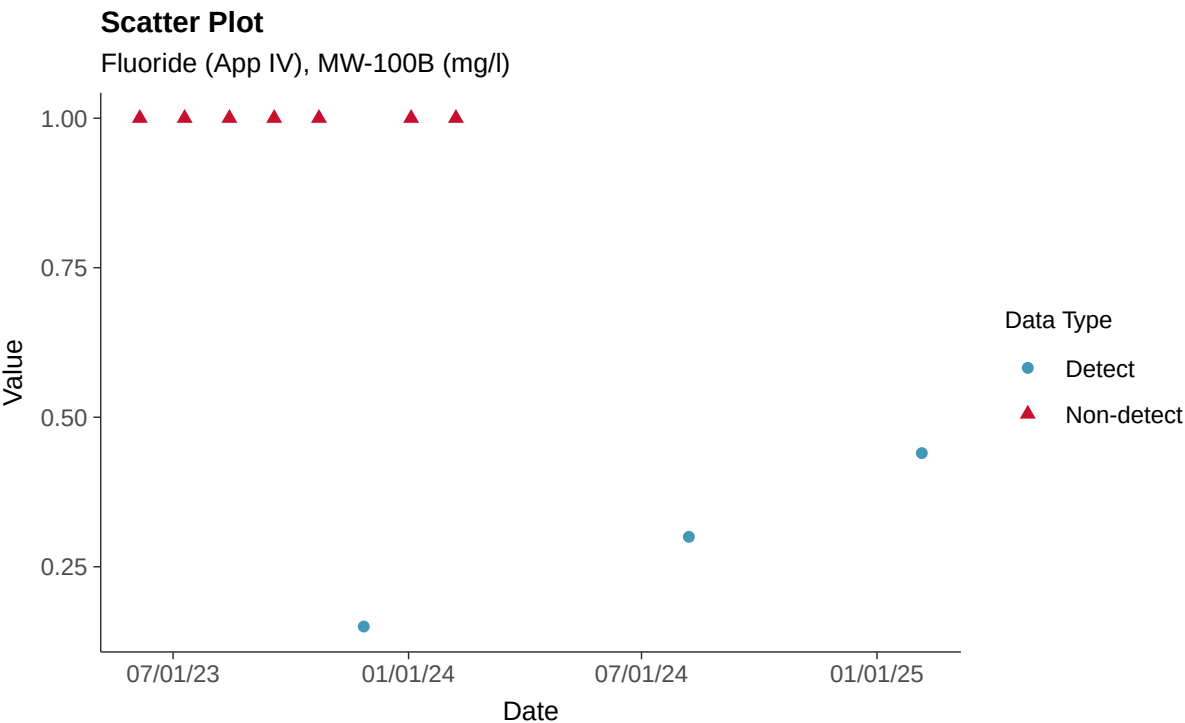


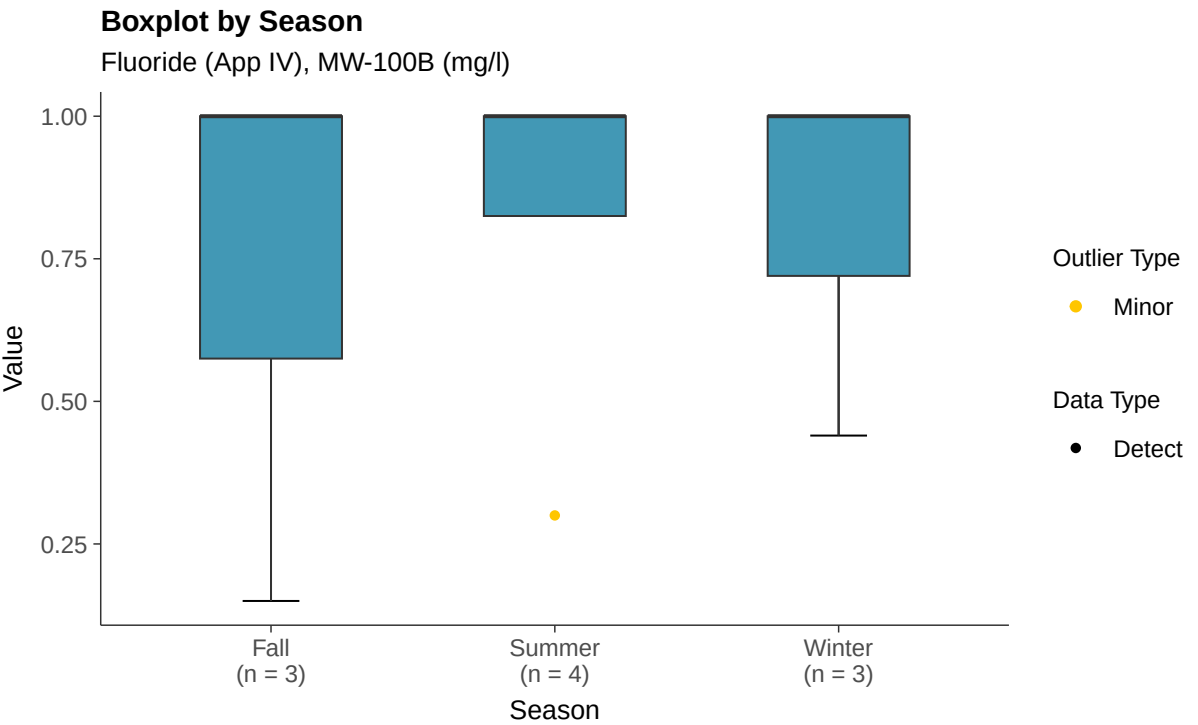
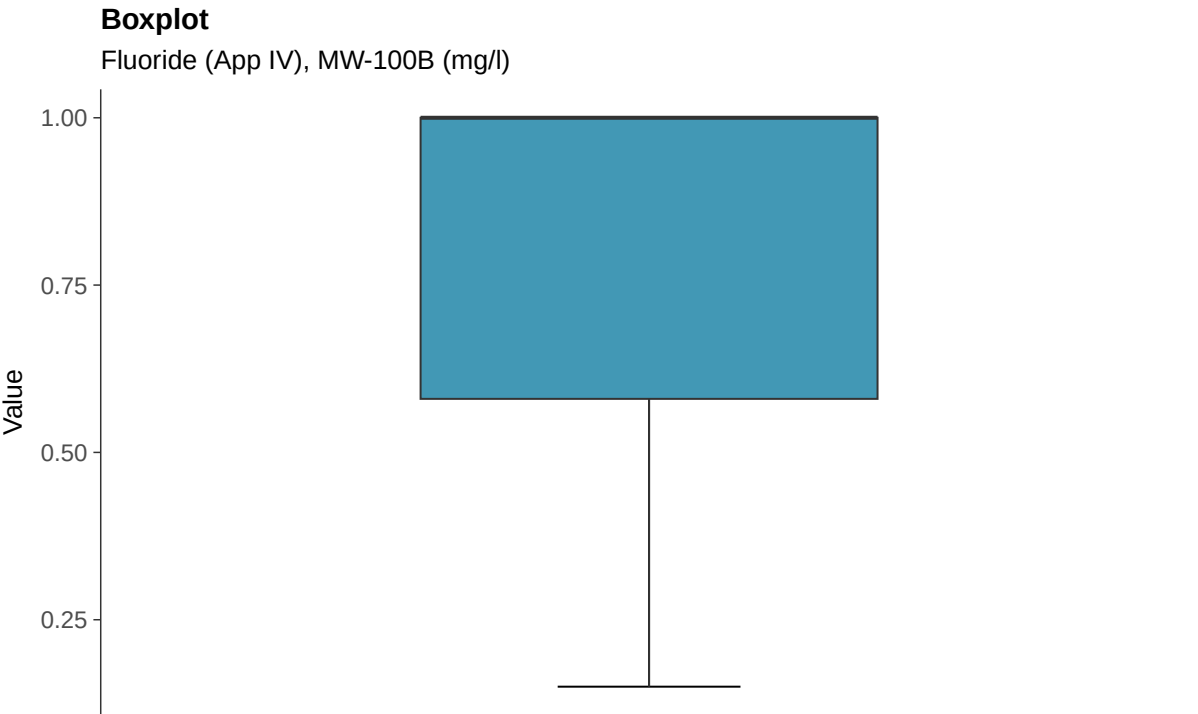




Appendix IV: Fluoride (App IV), MW-100B

ID: 31_3_113

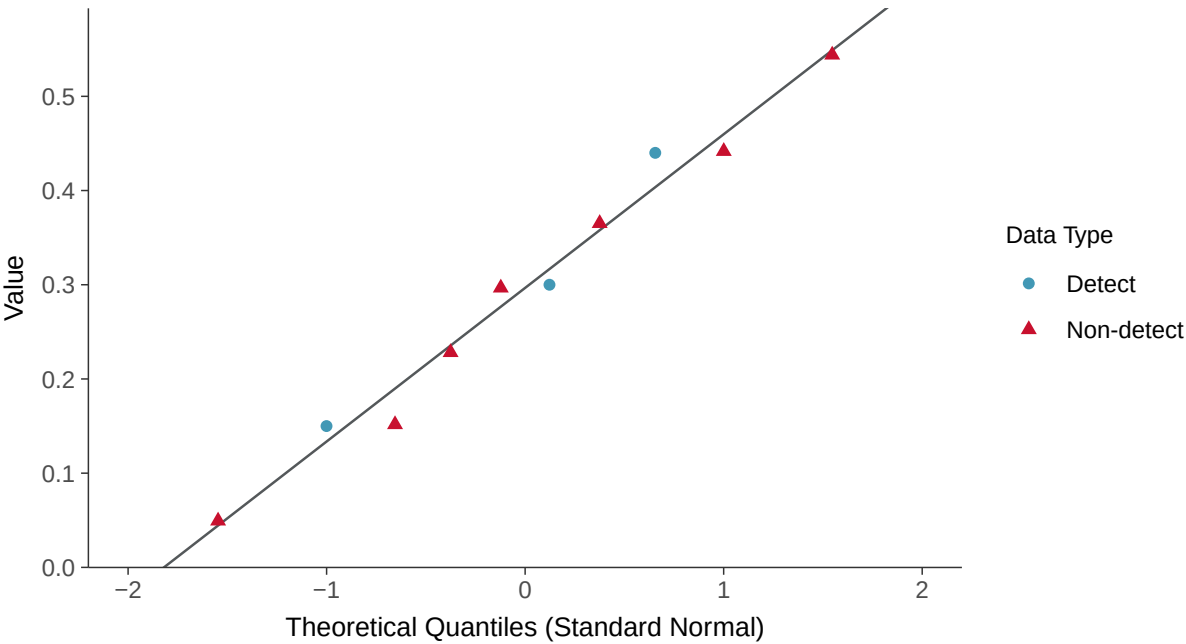






Normal Q-Q plot using ROS Imputed Estimates

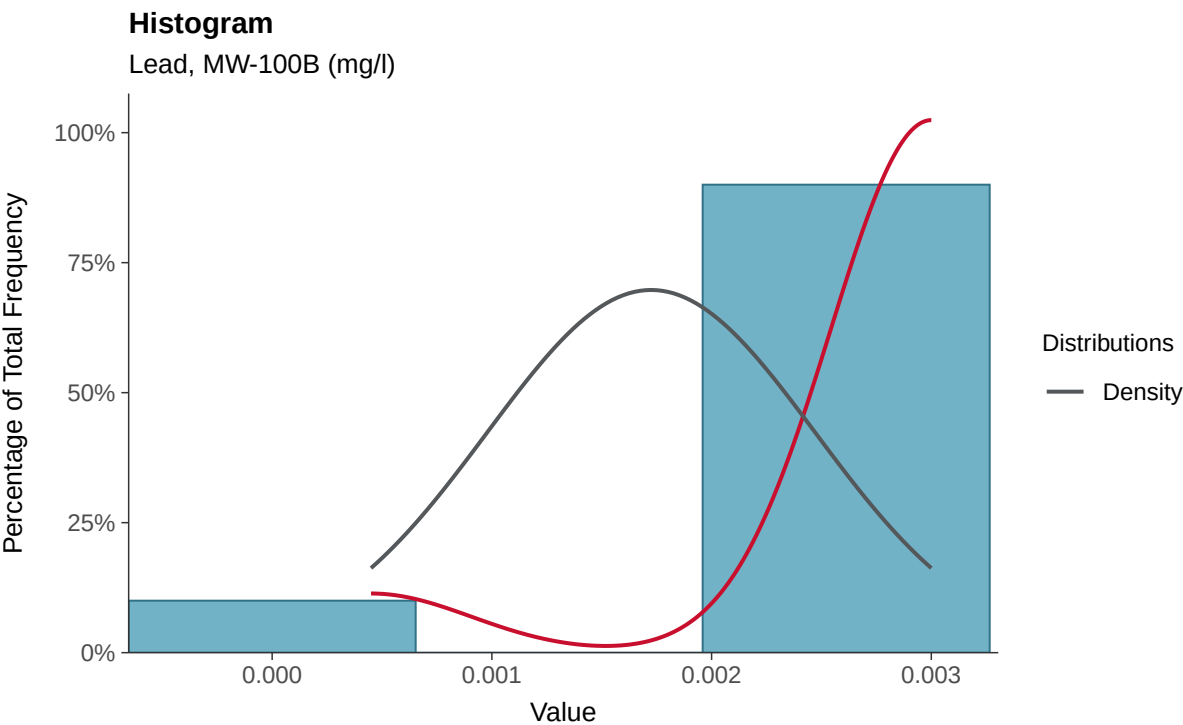
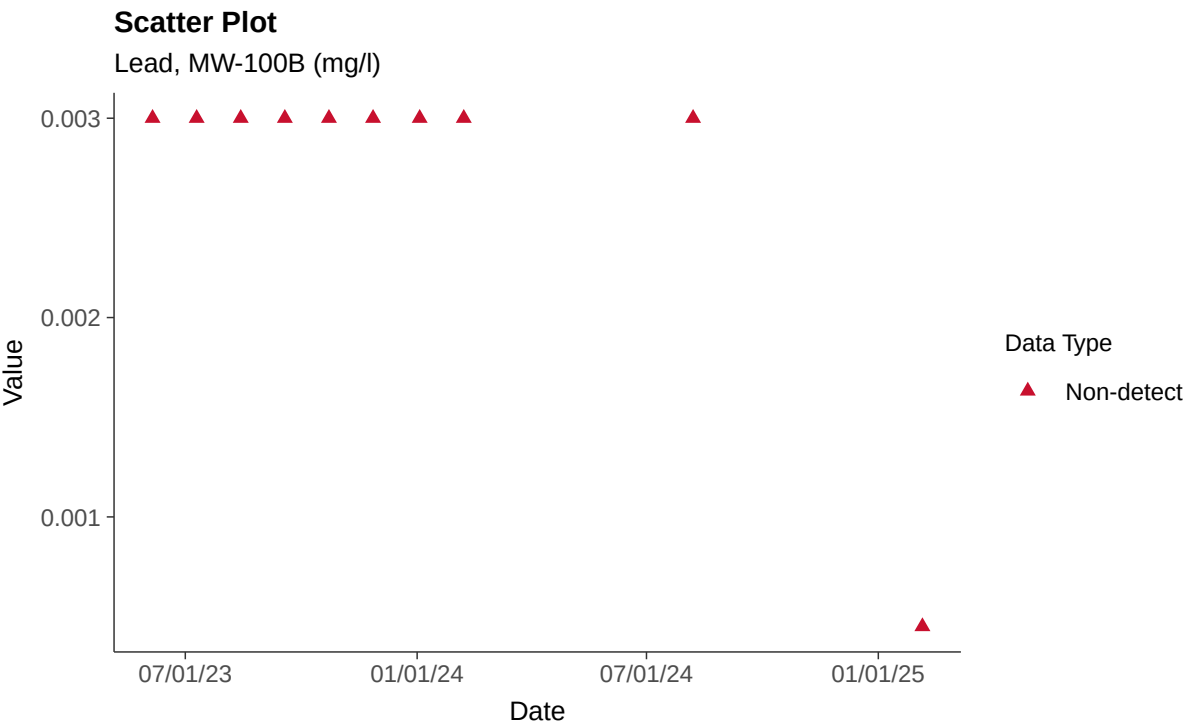
Fluoride (App IV), MW-100B (mg/l)

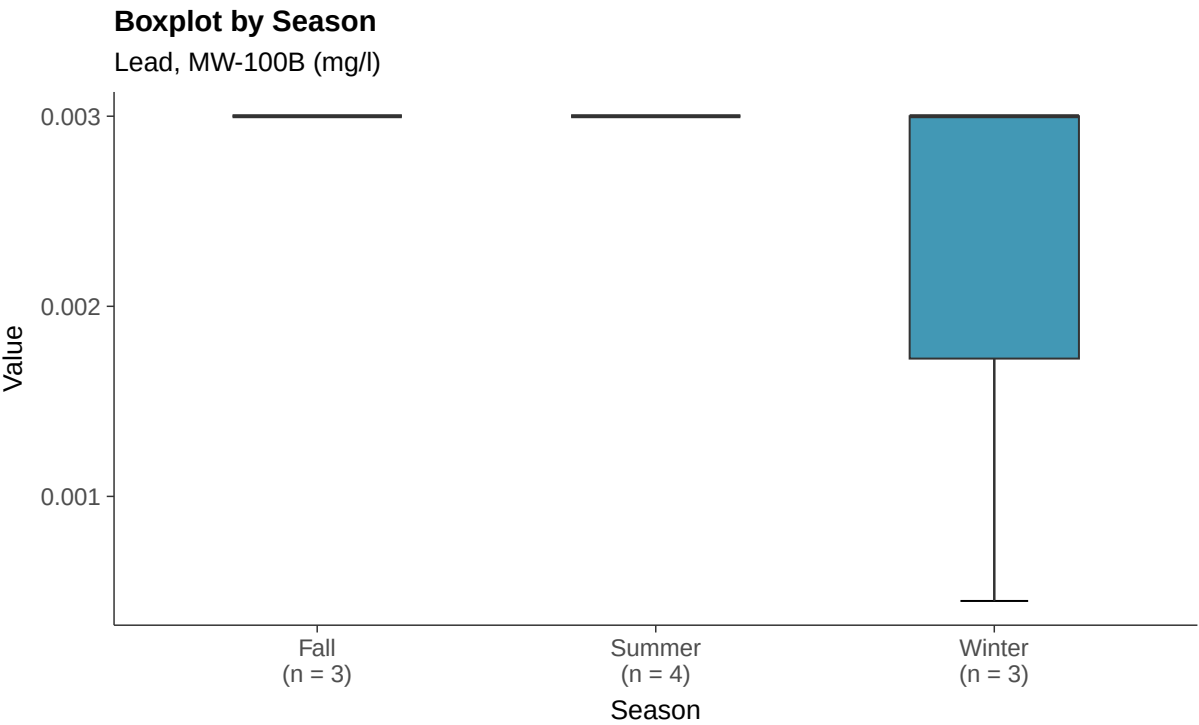
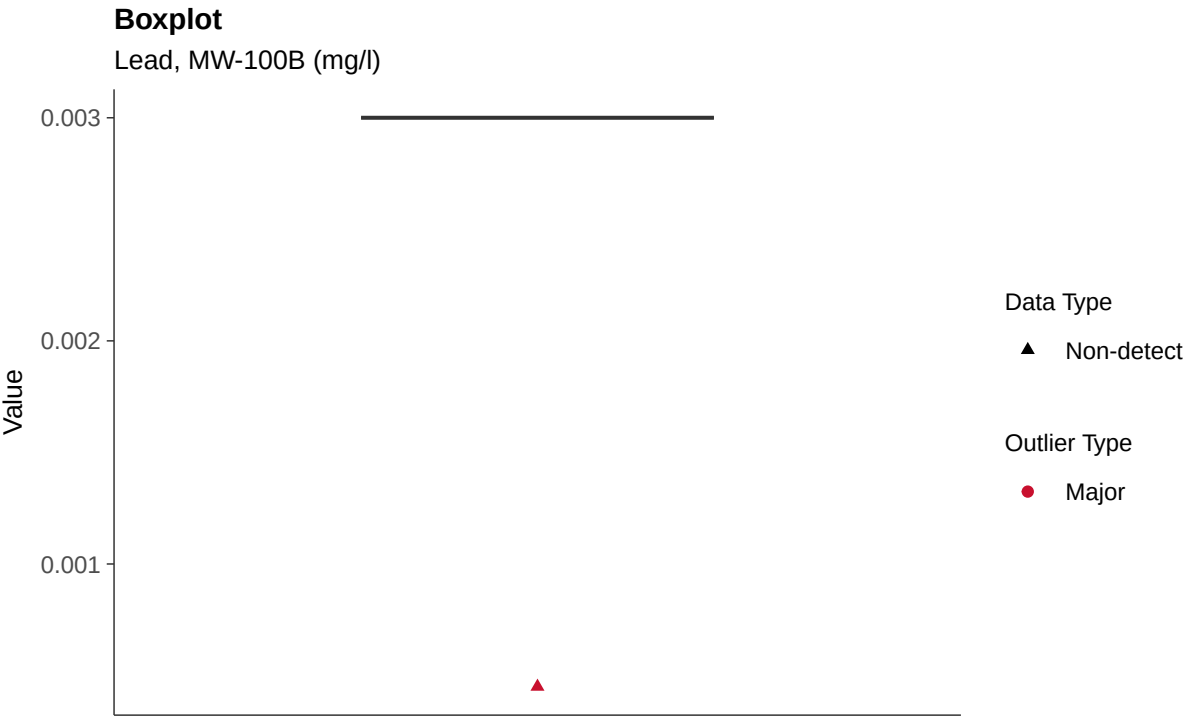




Appendix IV: Lead, MW-100B

ID: 31_3_115

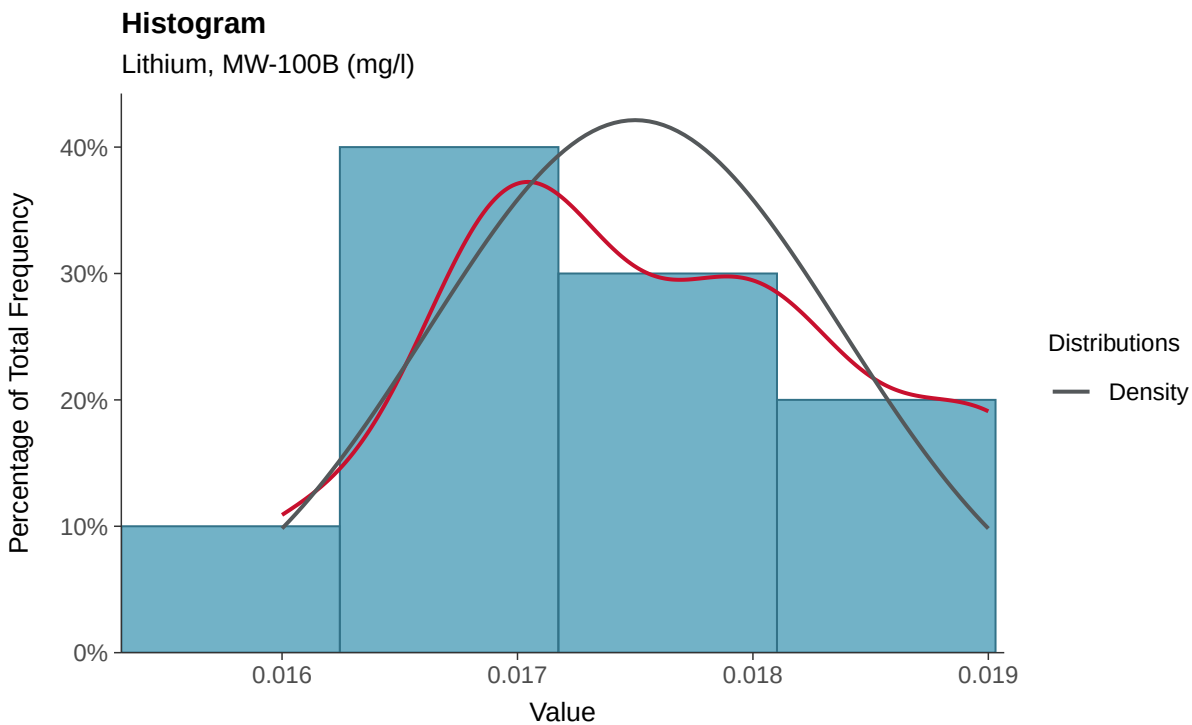
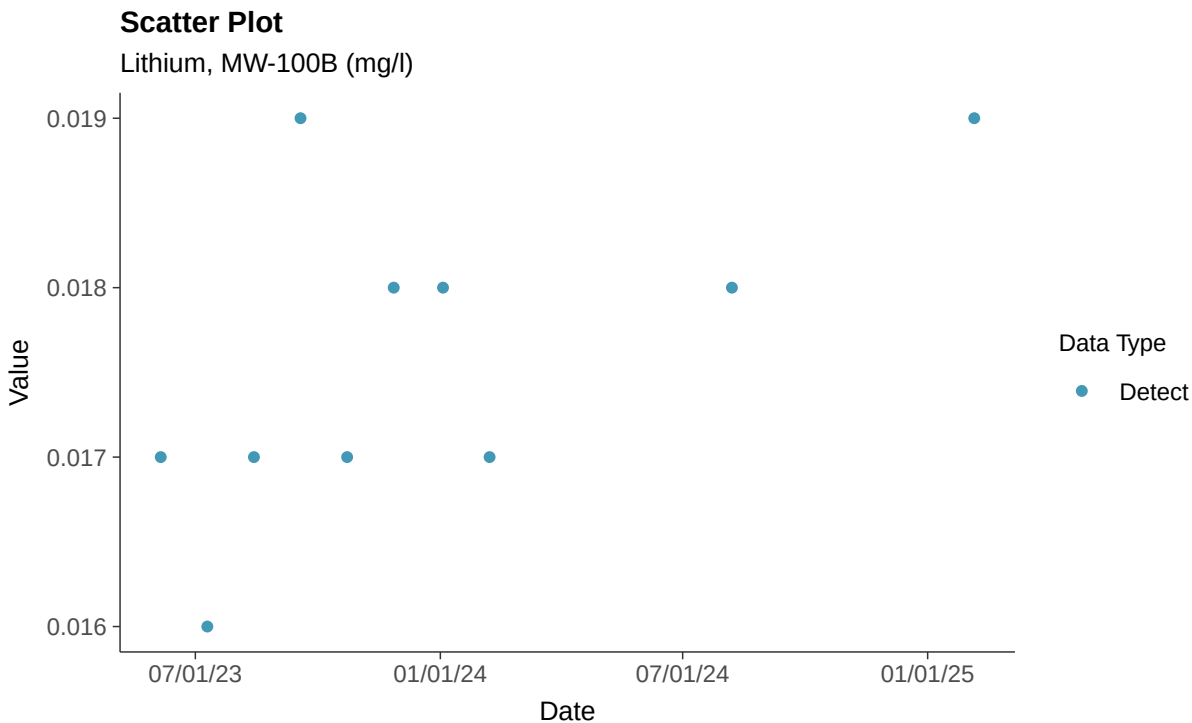


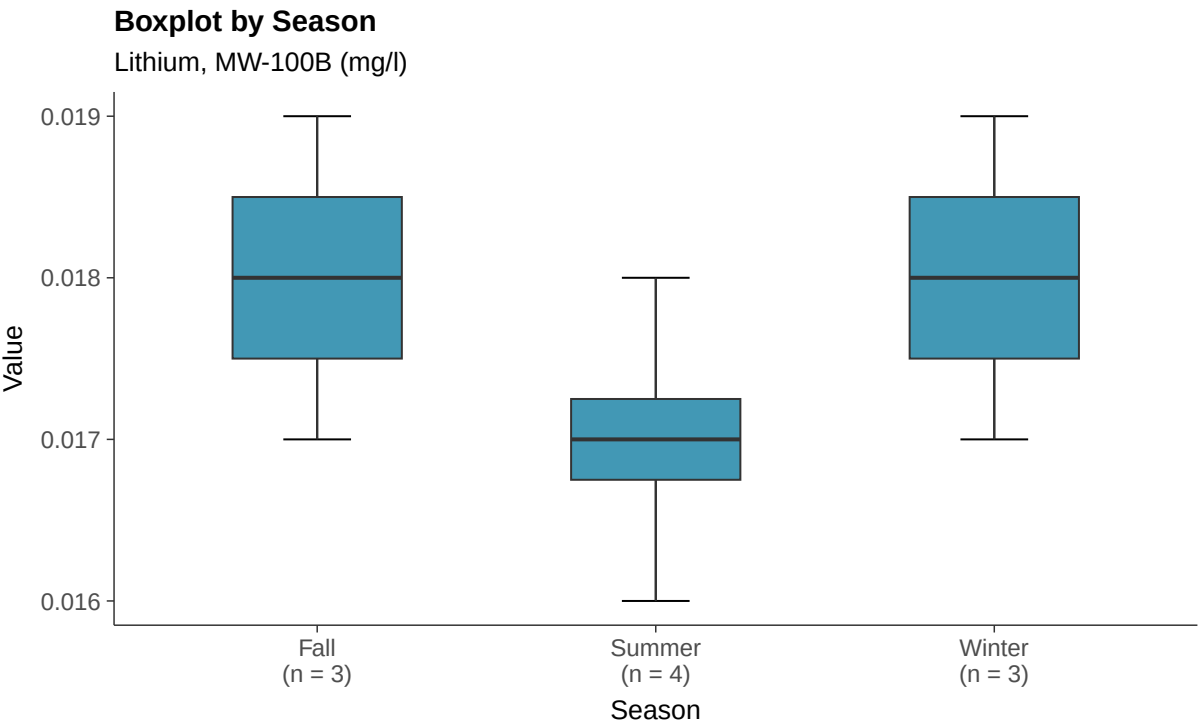
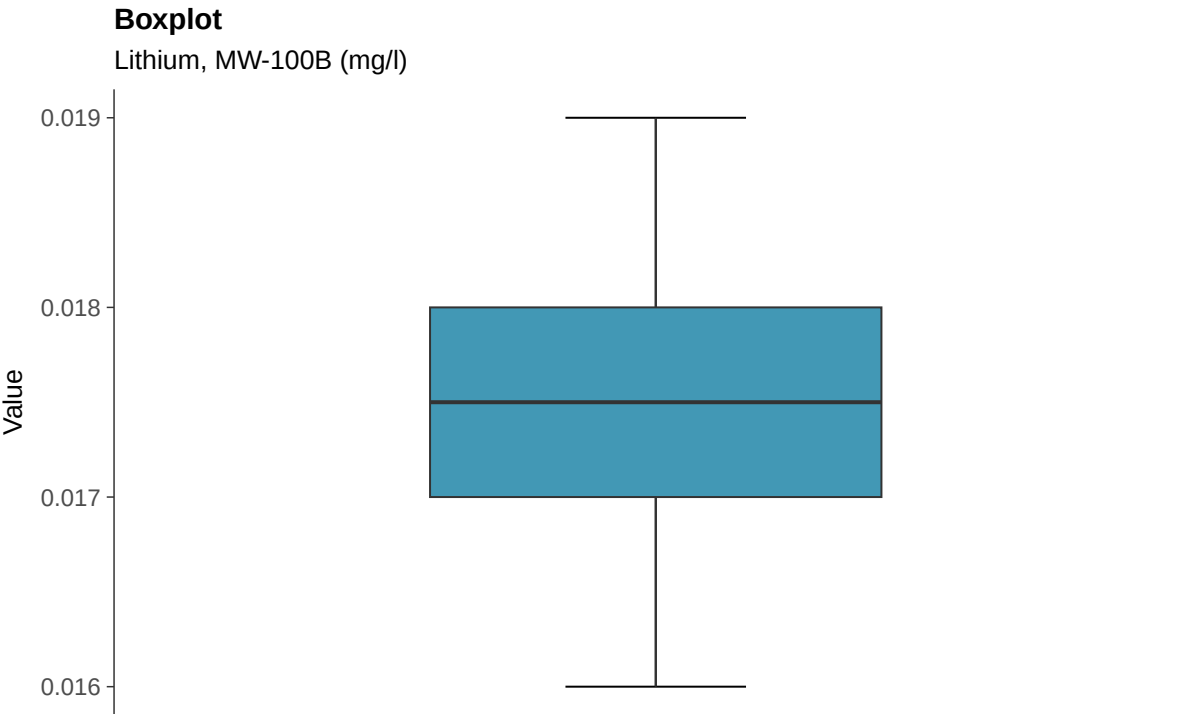


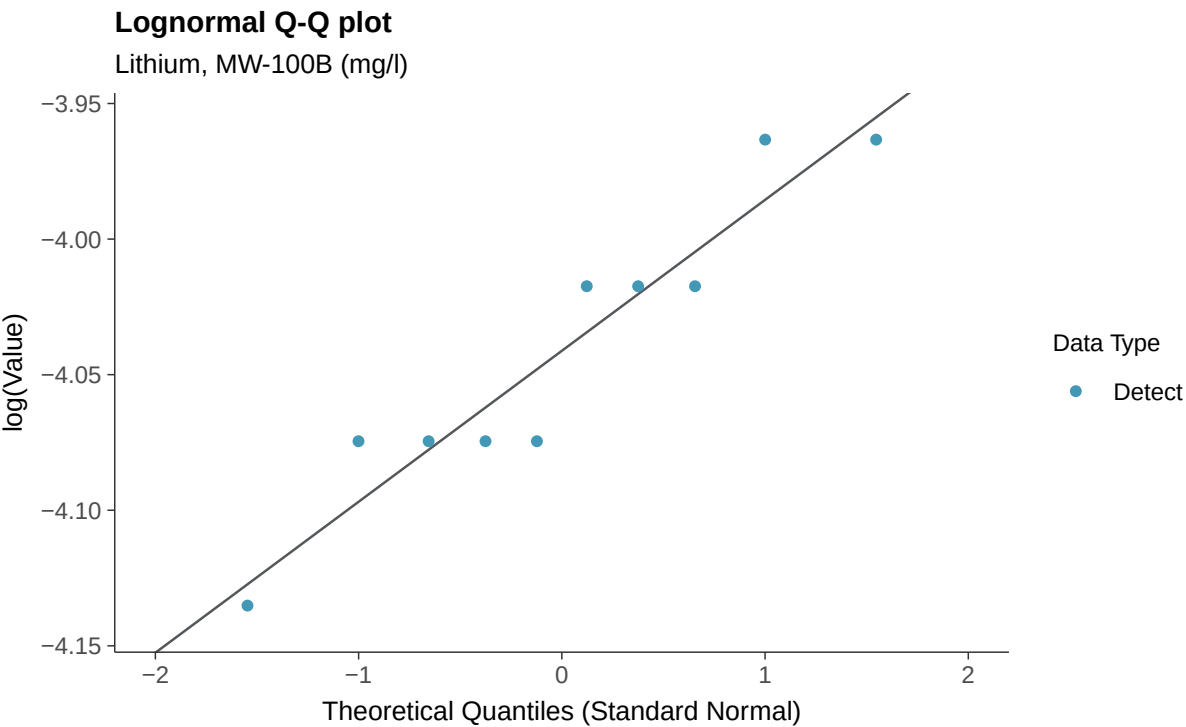
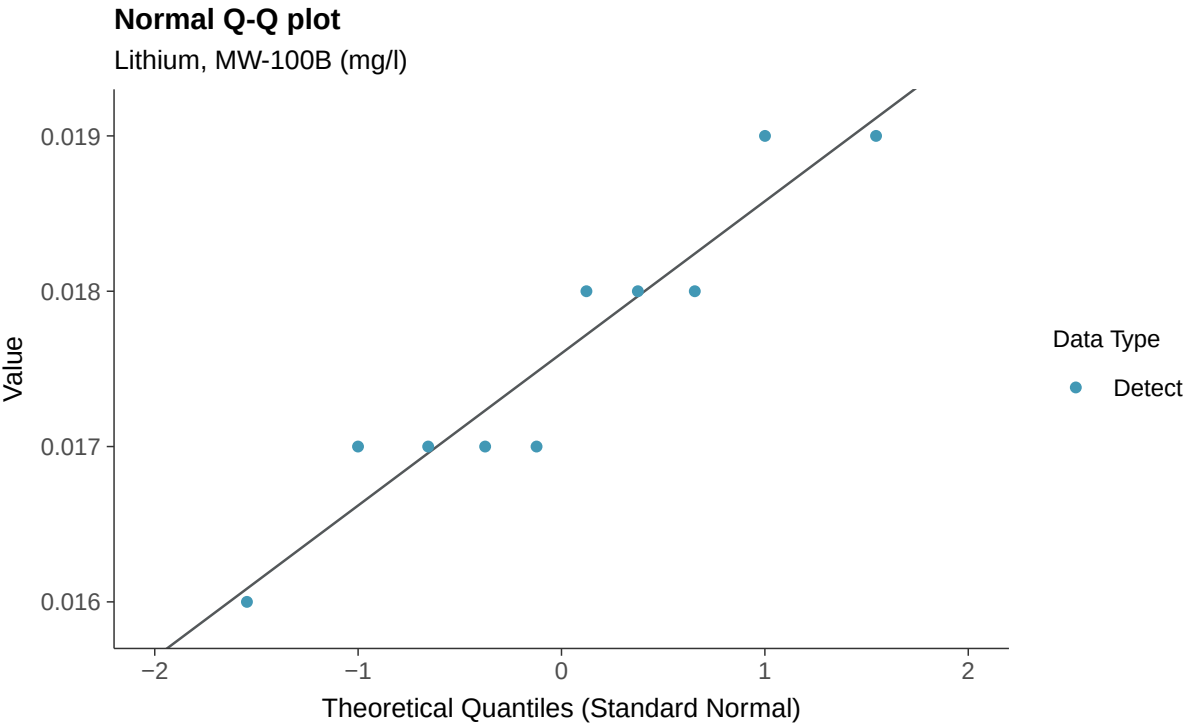


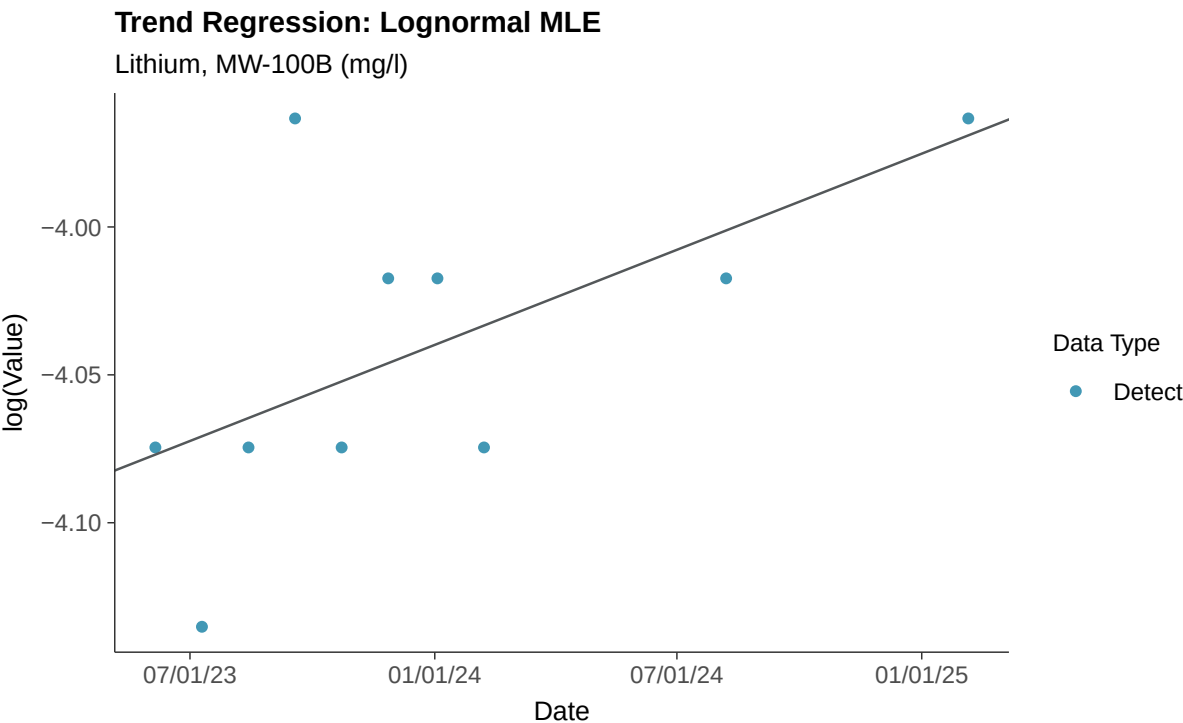
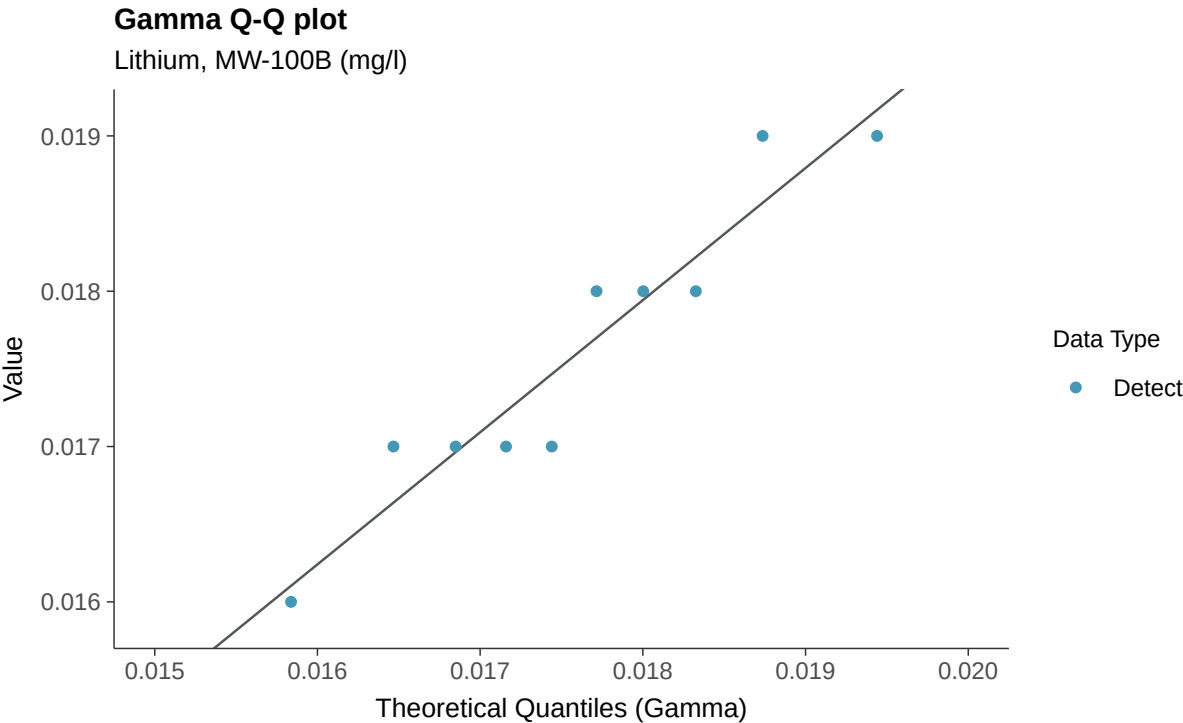
Appendix IV: Lithium, MW-100B

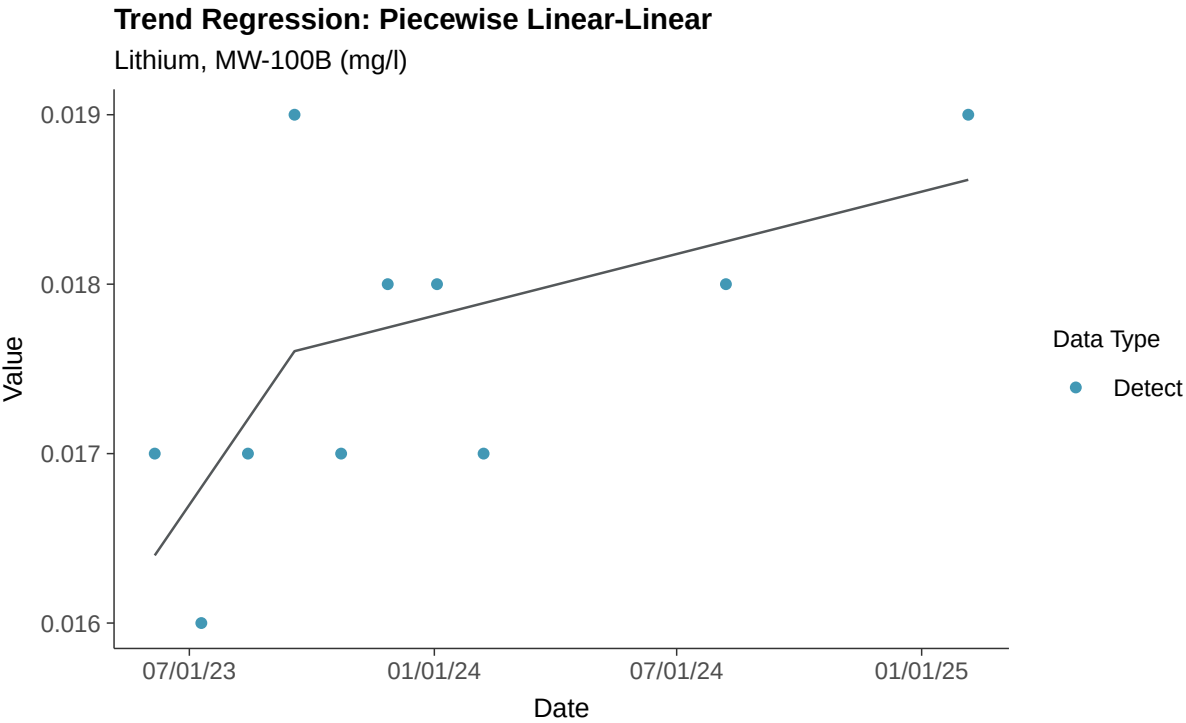
ID: 31_3_116







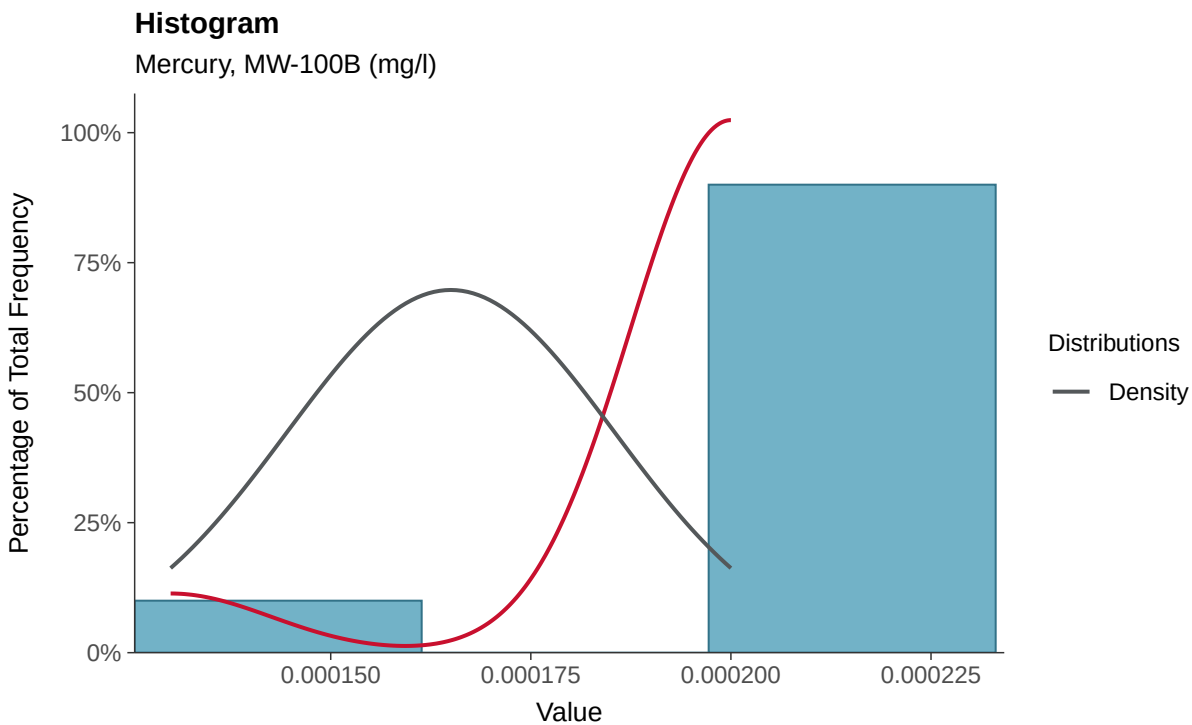
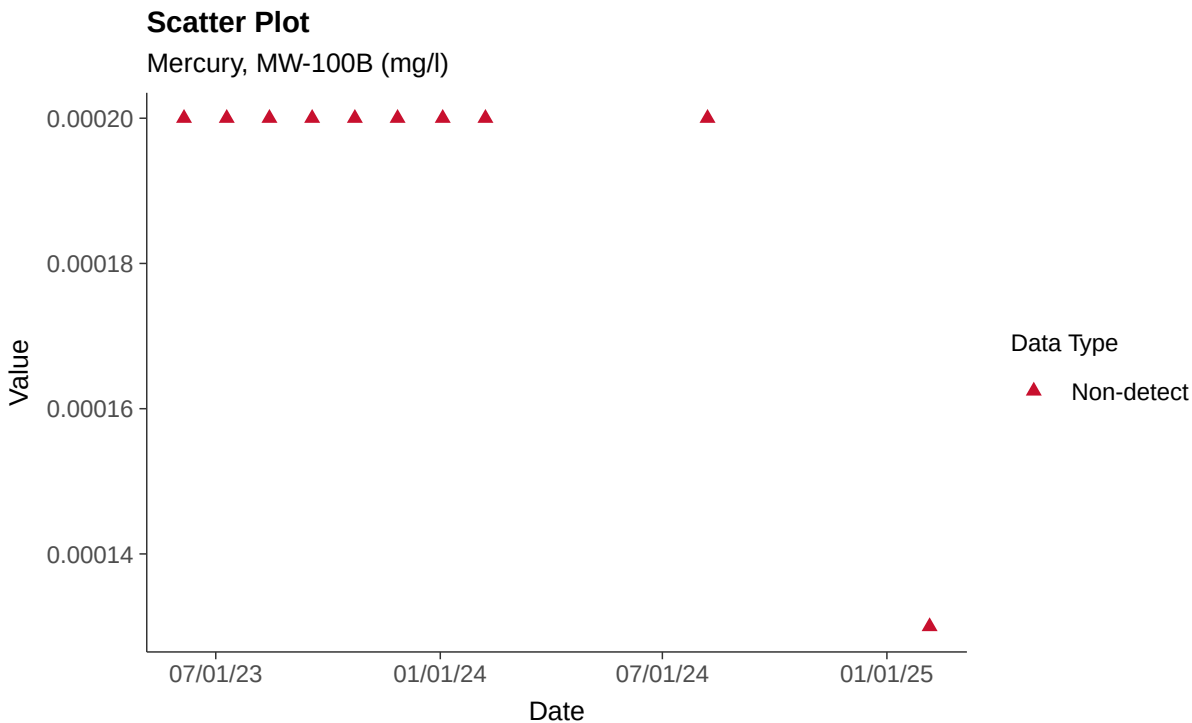


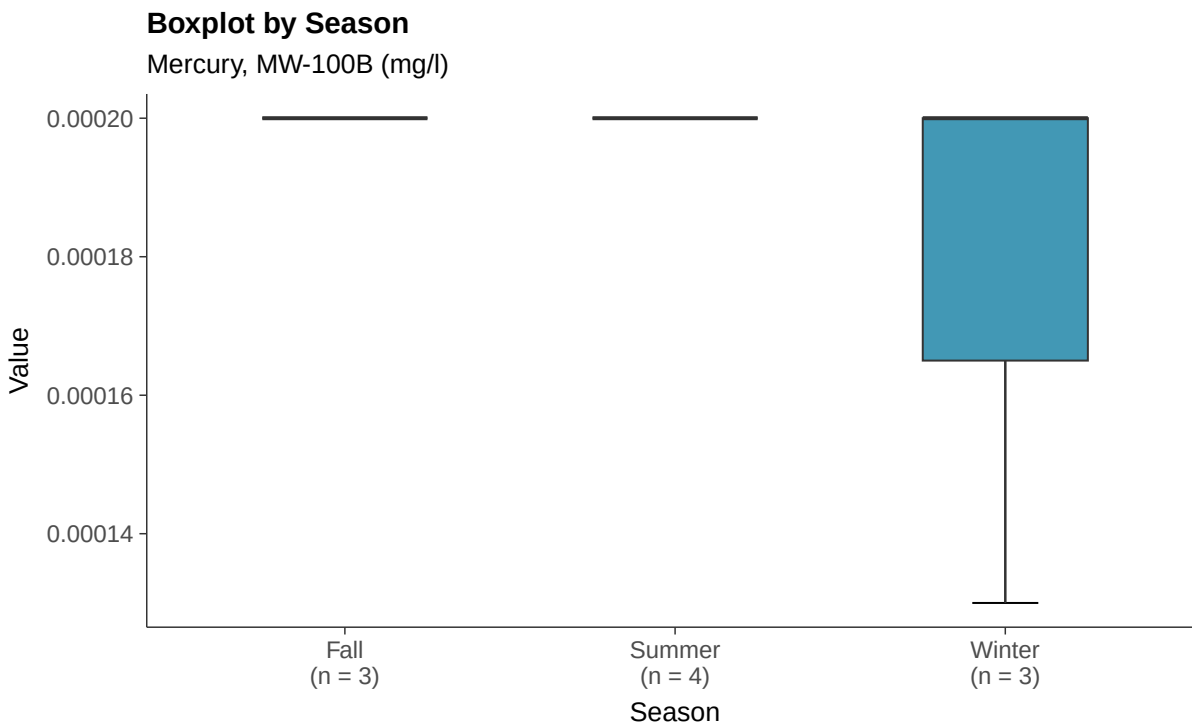
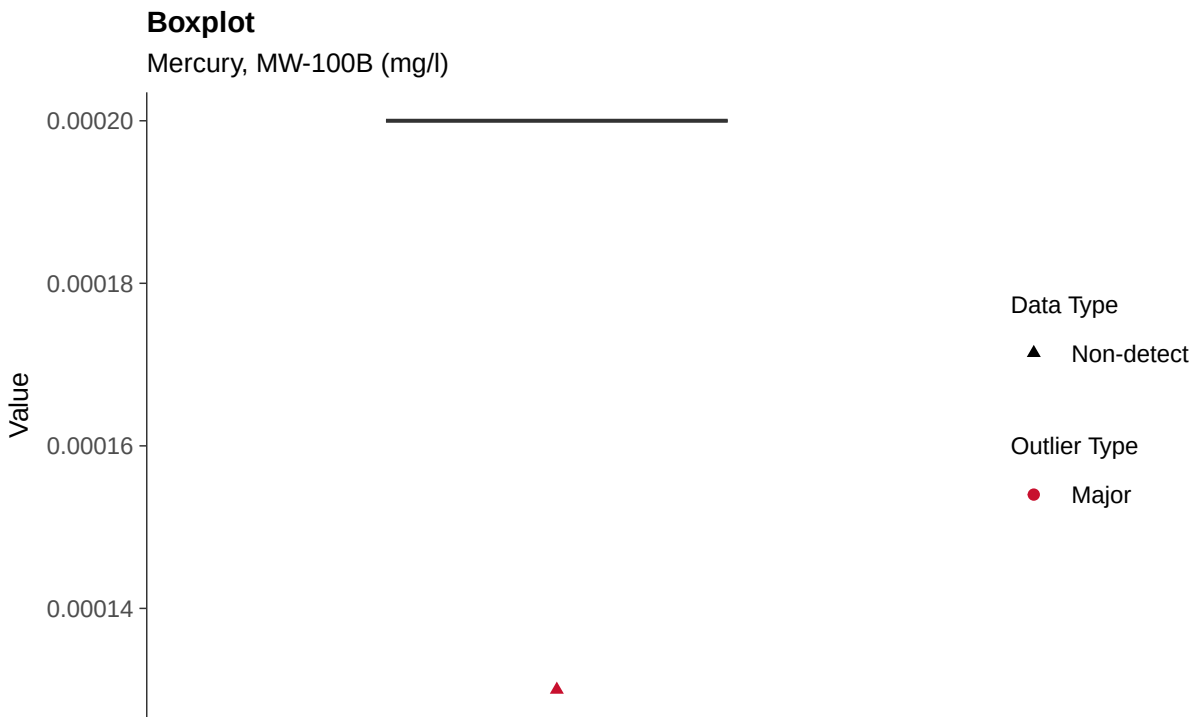




Appendix IV: Mercury, MW-100B

ID: 31_3_117

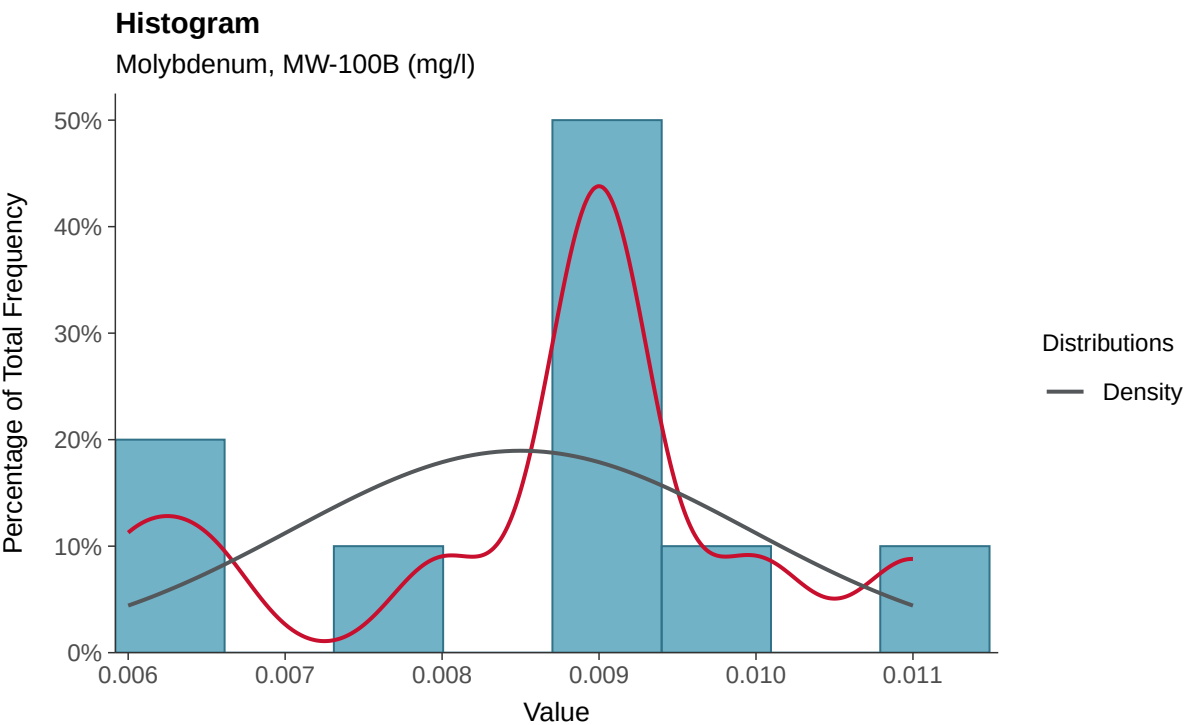
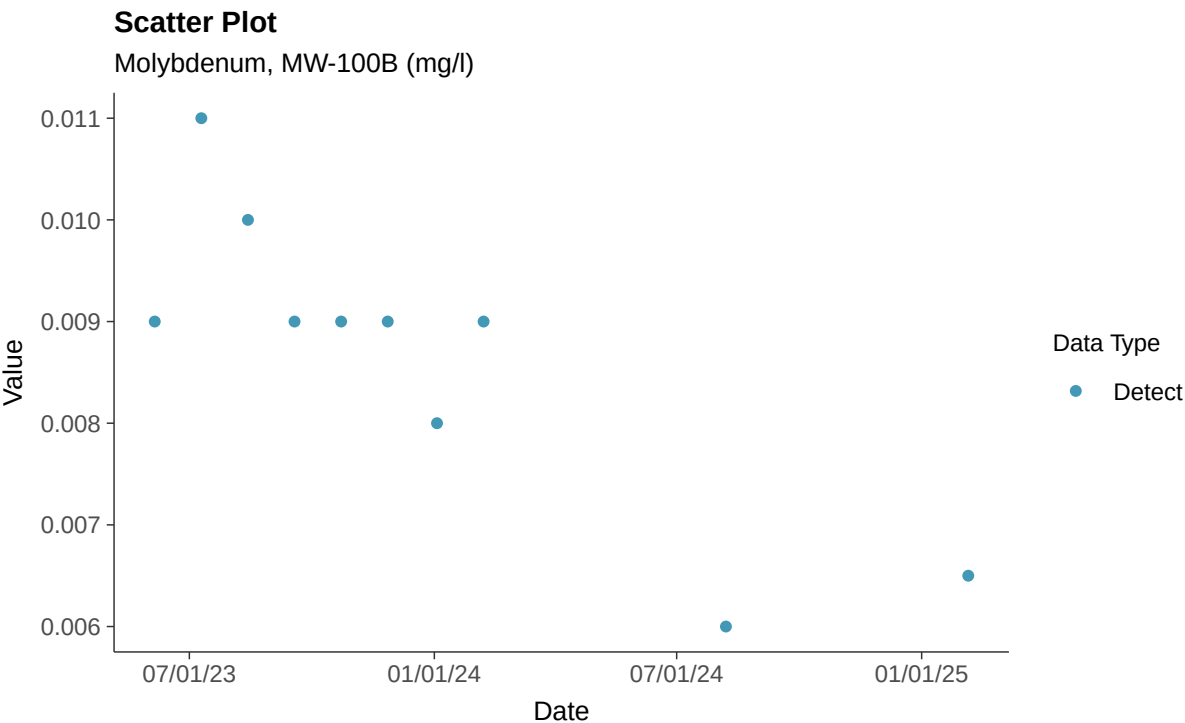


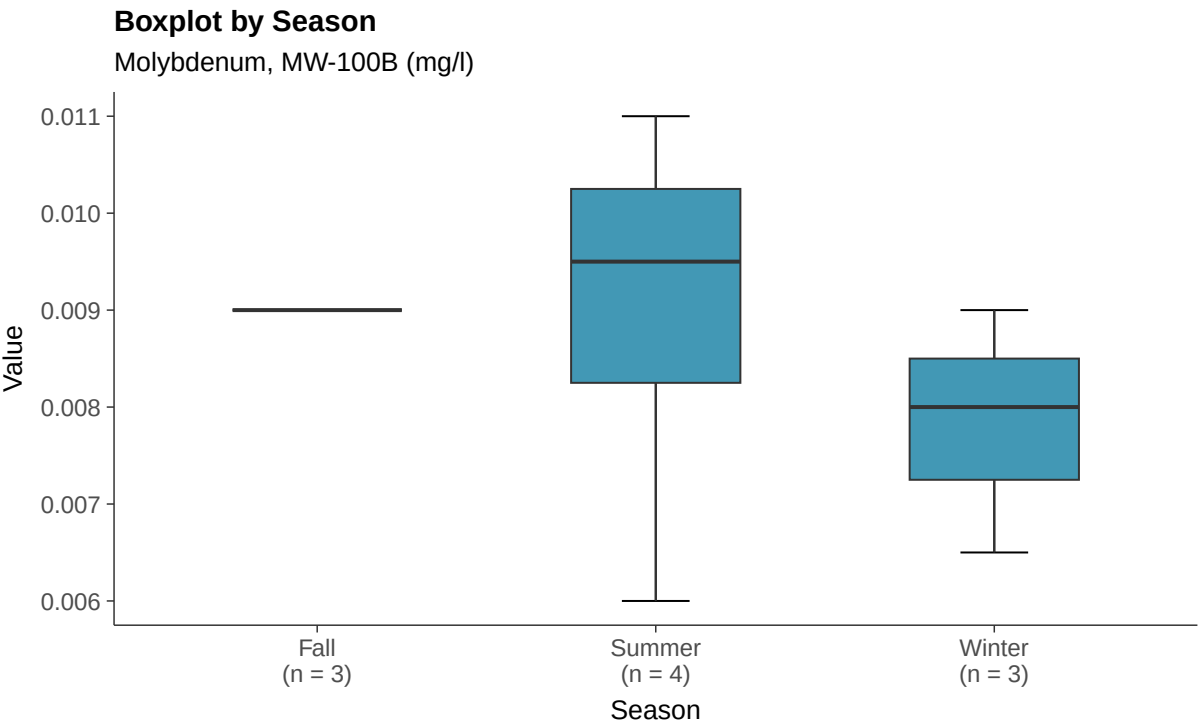
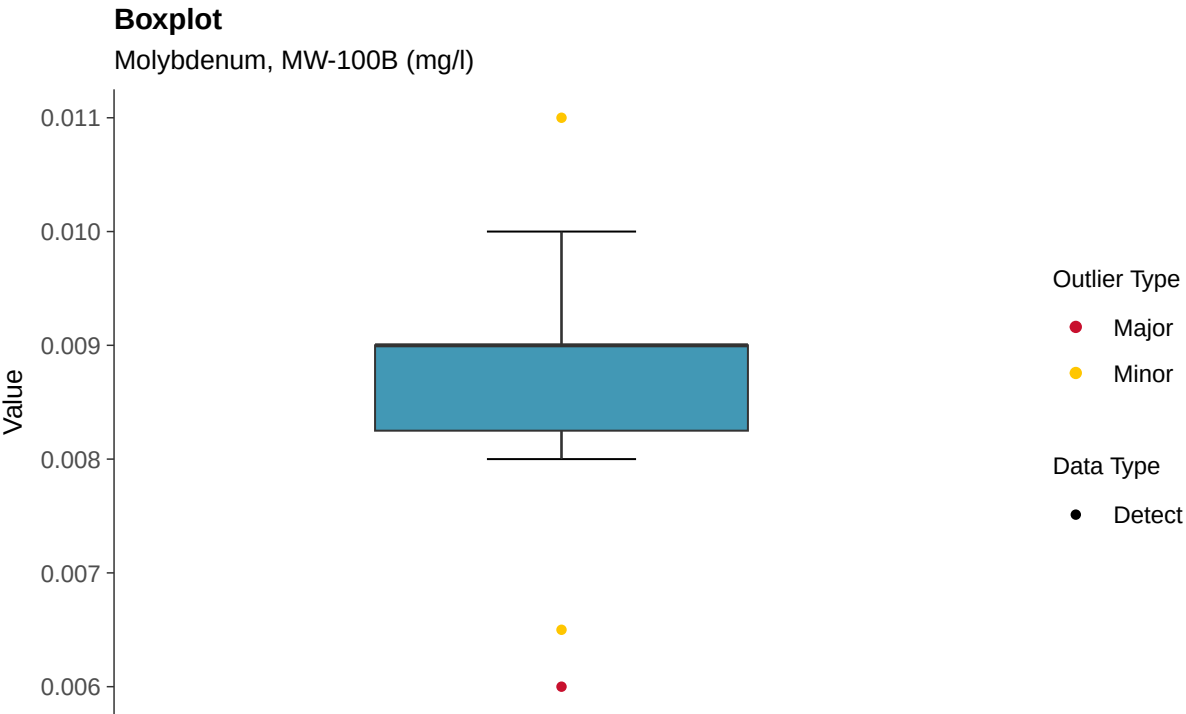


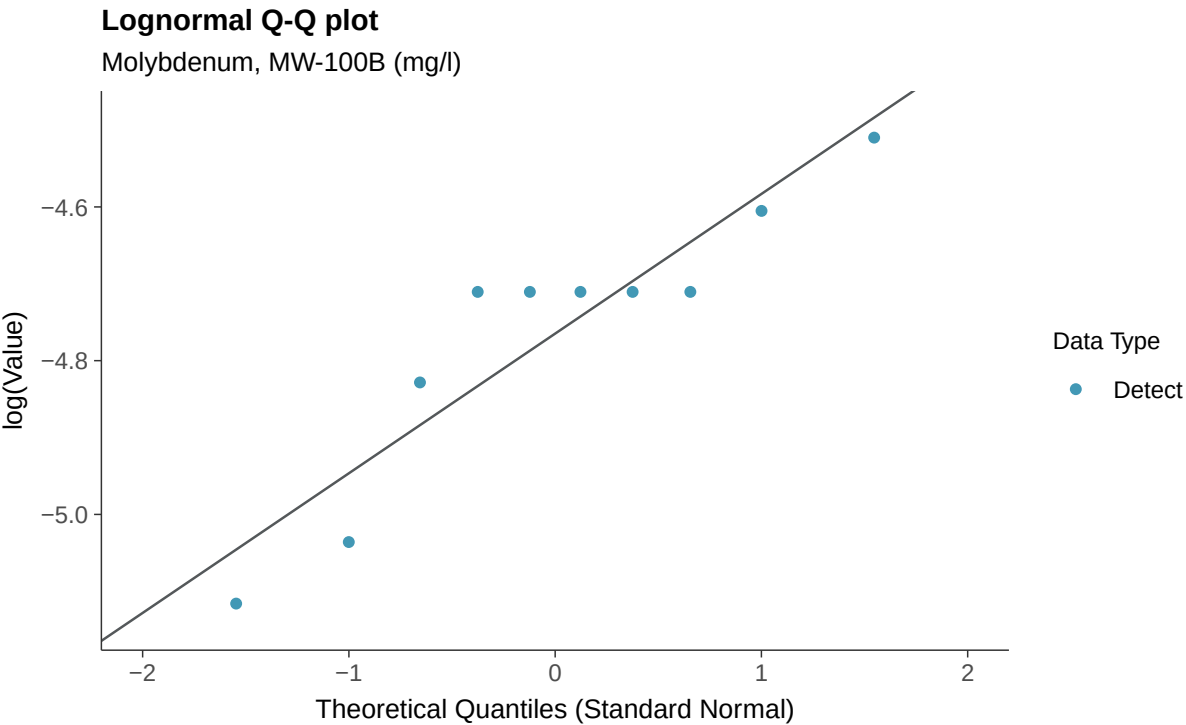
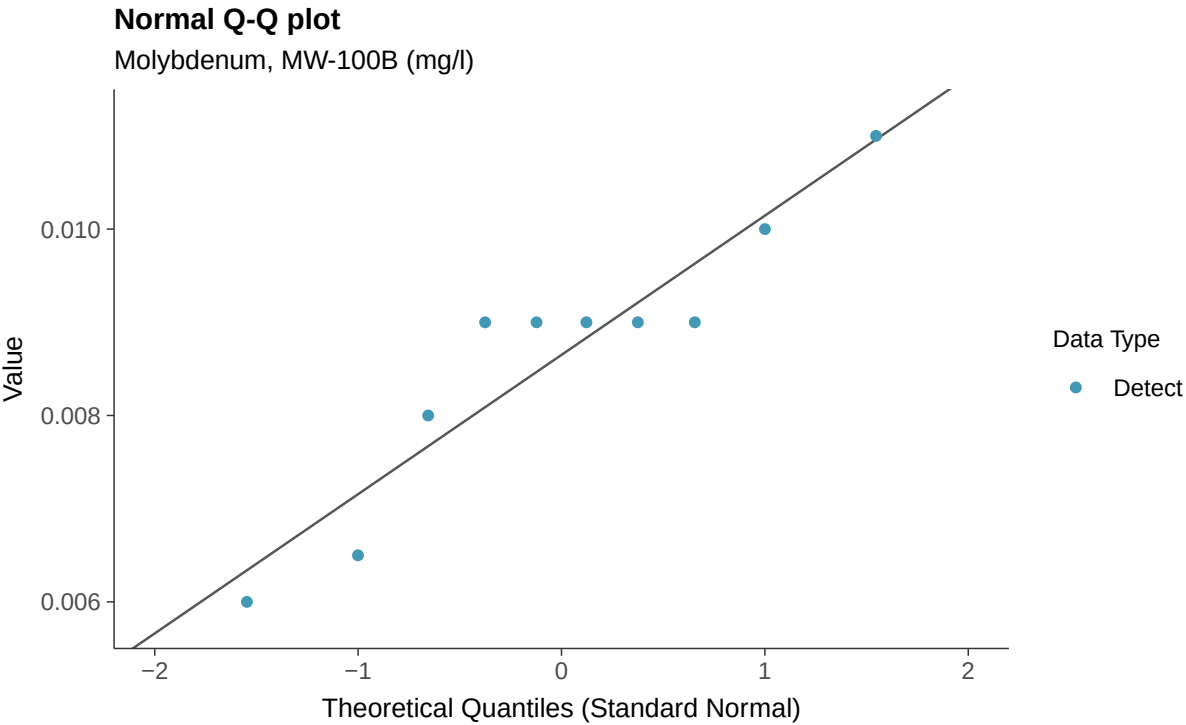


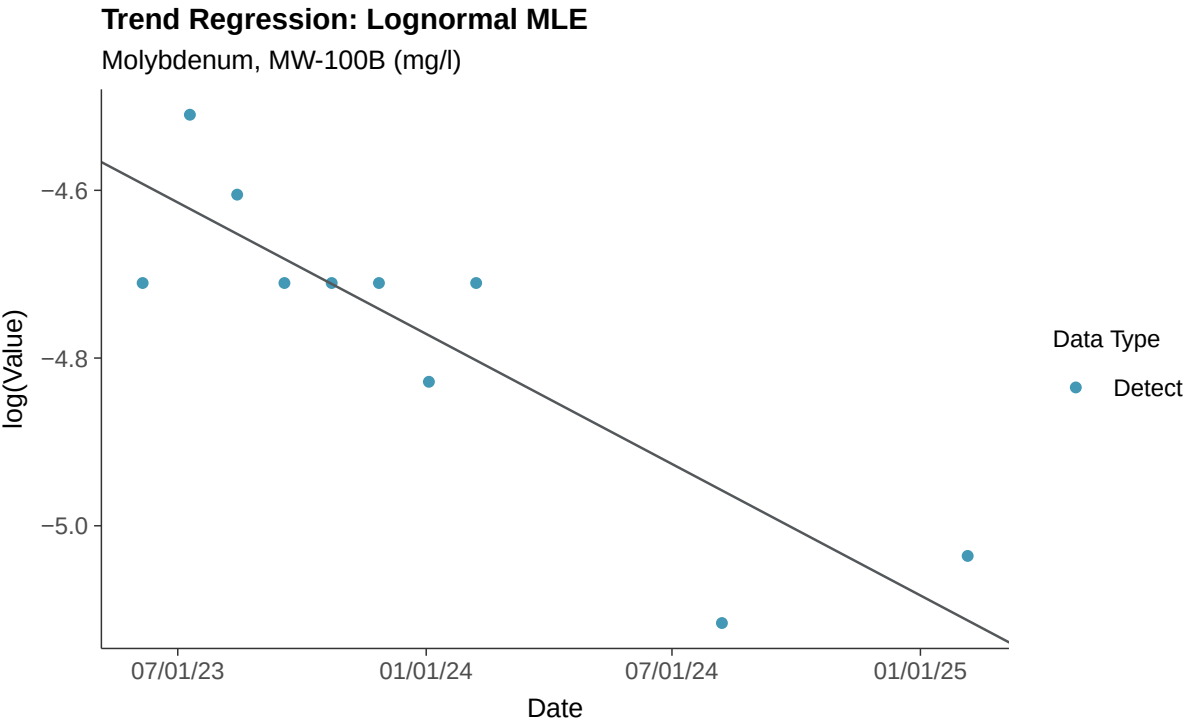
Appendix IV: Molybdenum, MW-100B

ID: 31_3_118





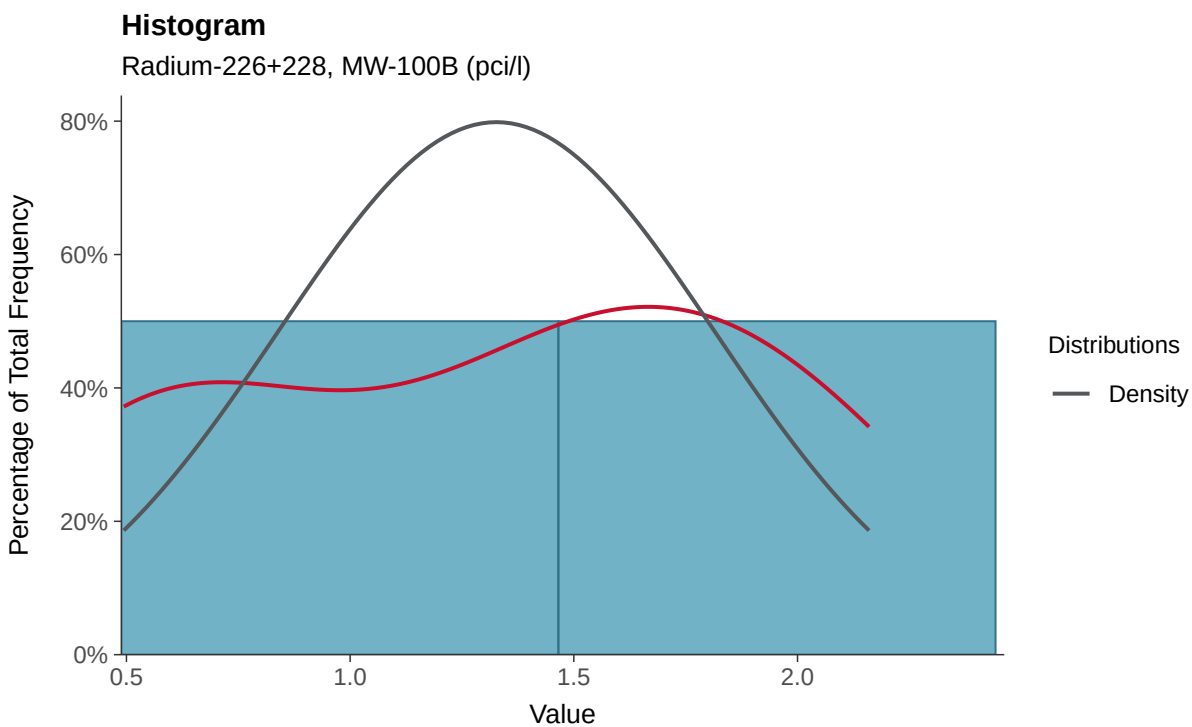
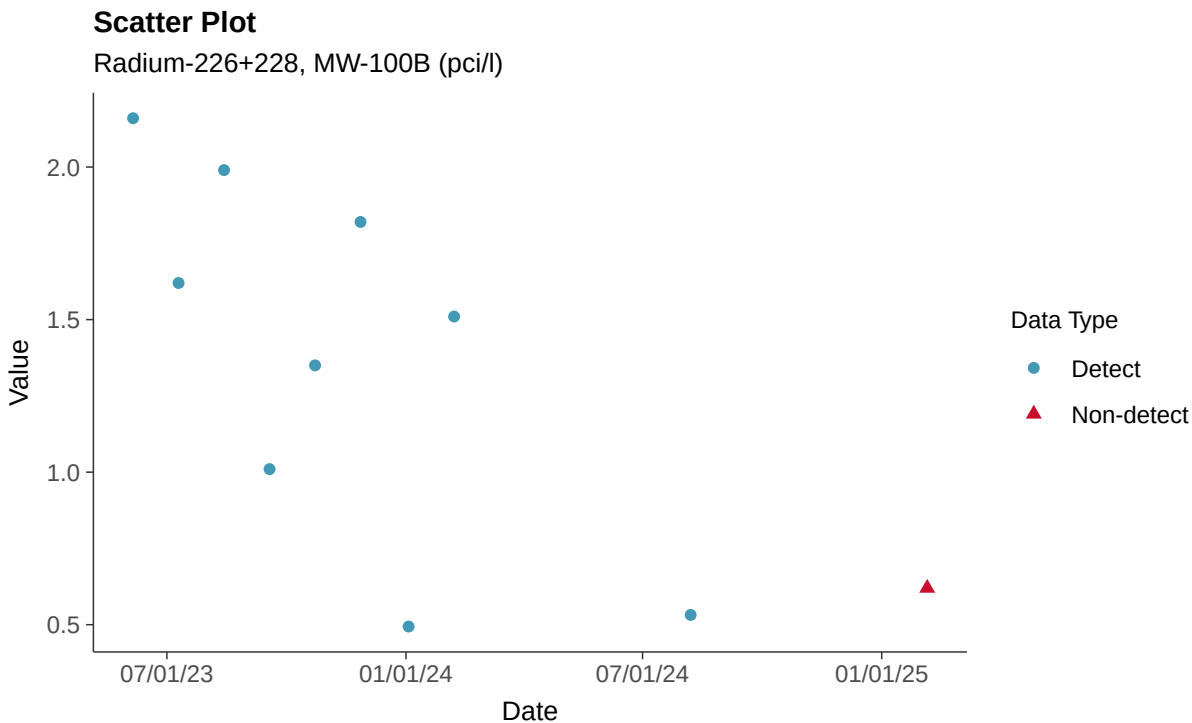






Appendix IV: Radium-226+228, MW-100B

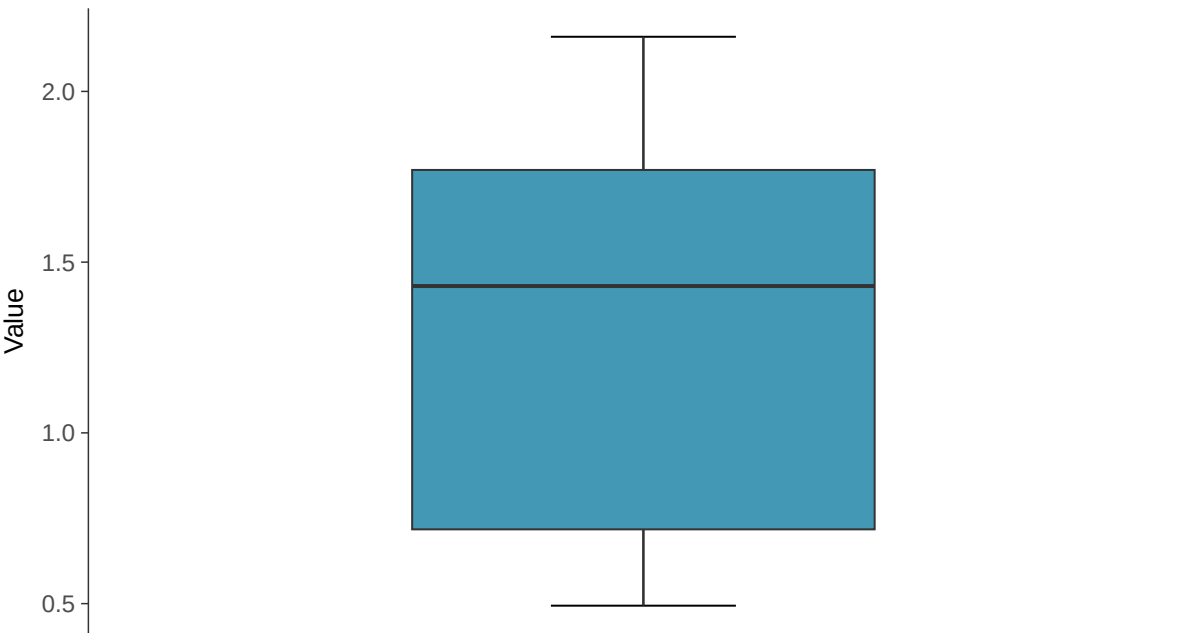
ID: 31_3_121





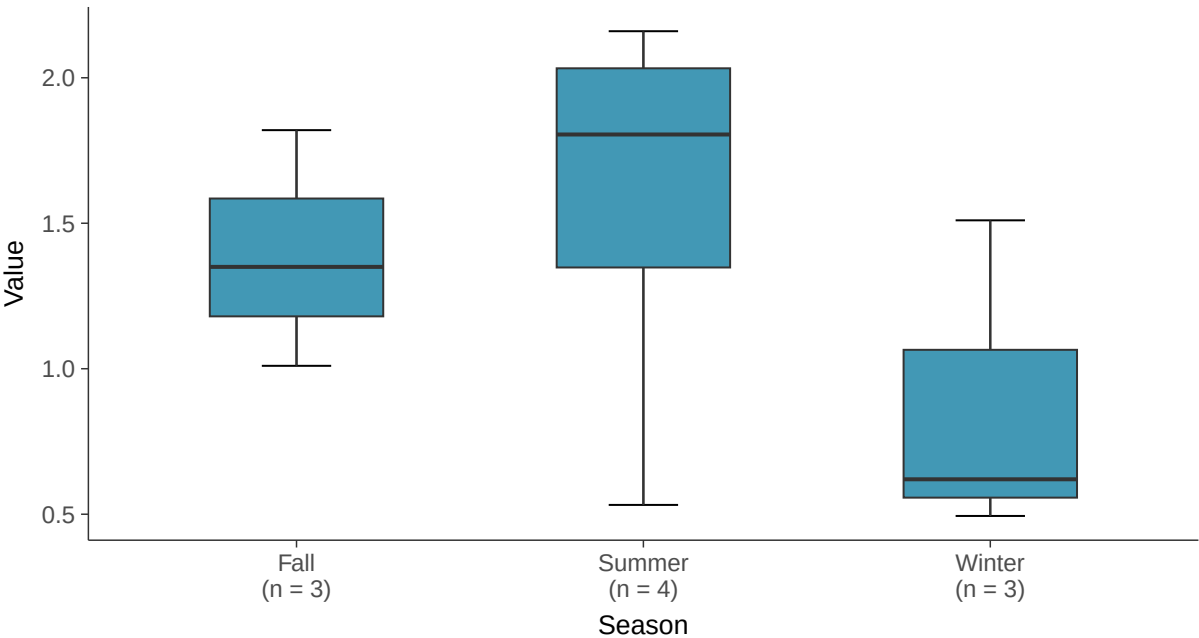
Boxplot

Radium-226+228, MW-100B (pci/l)



Boxplot by Season

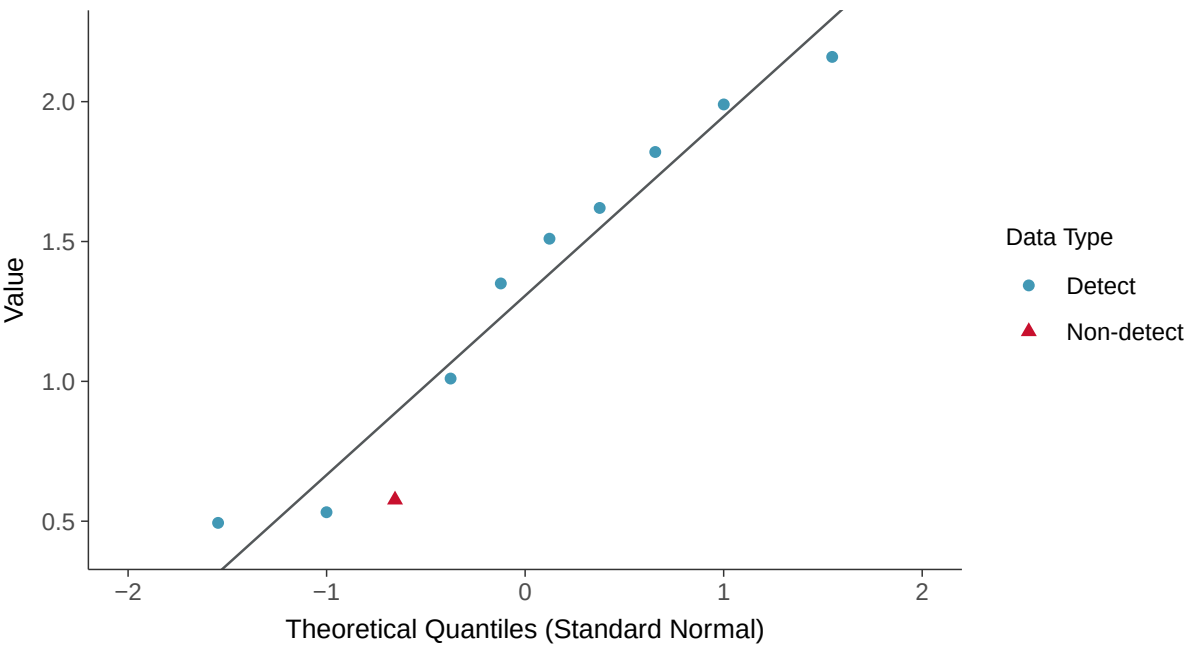
Radium-226+228, MW-100B (pci/l)





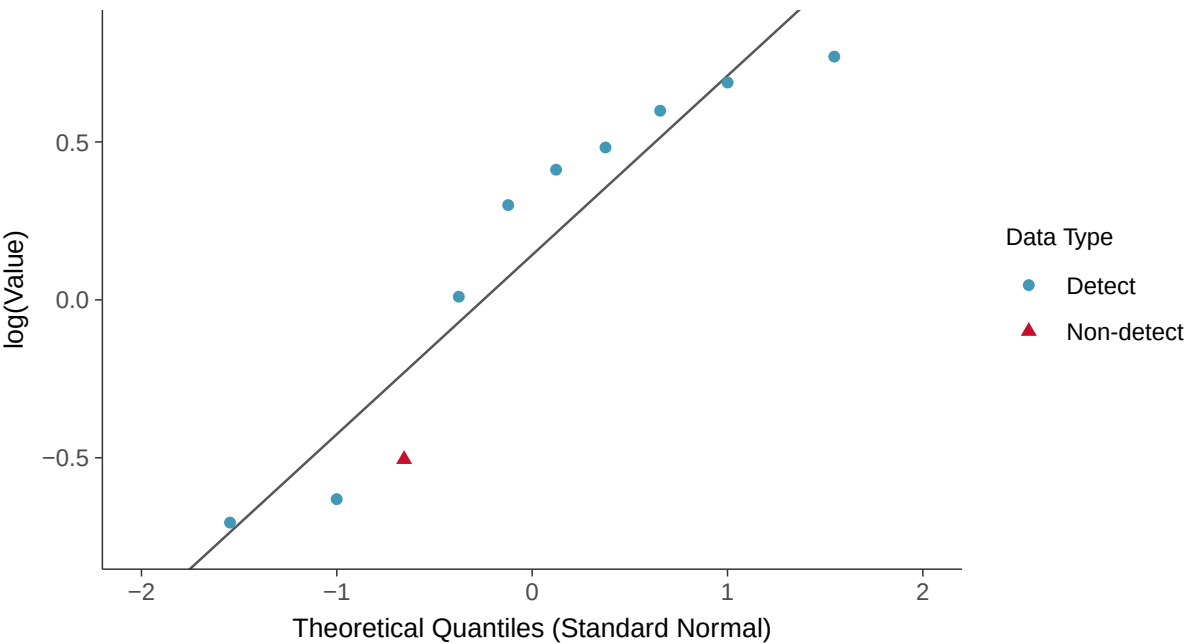
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-100B (pci/l)



Lognormal Q-Q plot using ROS Imputed Estimates

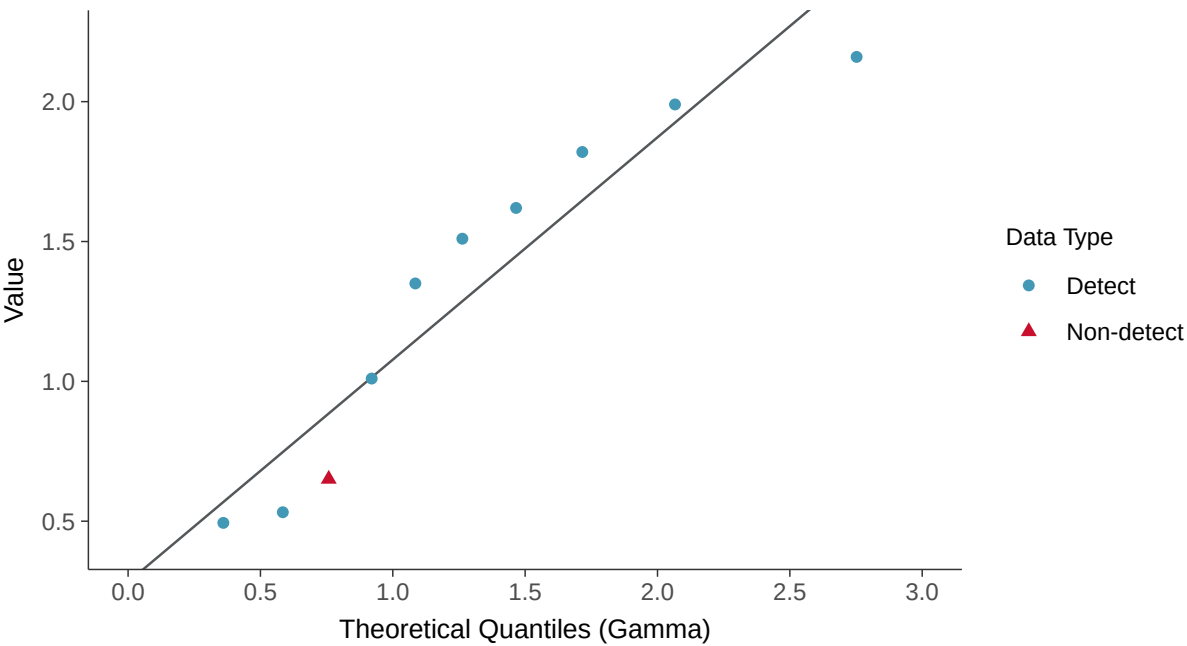
Radium-226+228, MW-100B (pci/l)





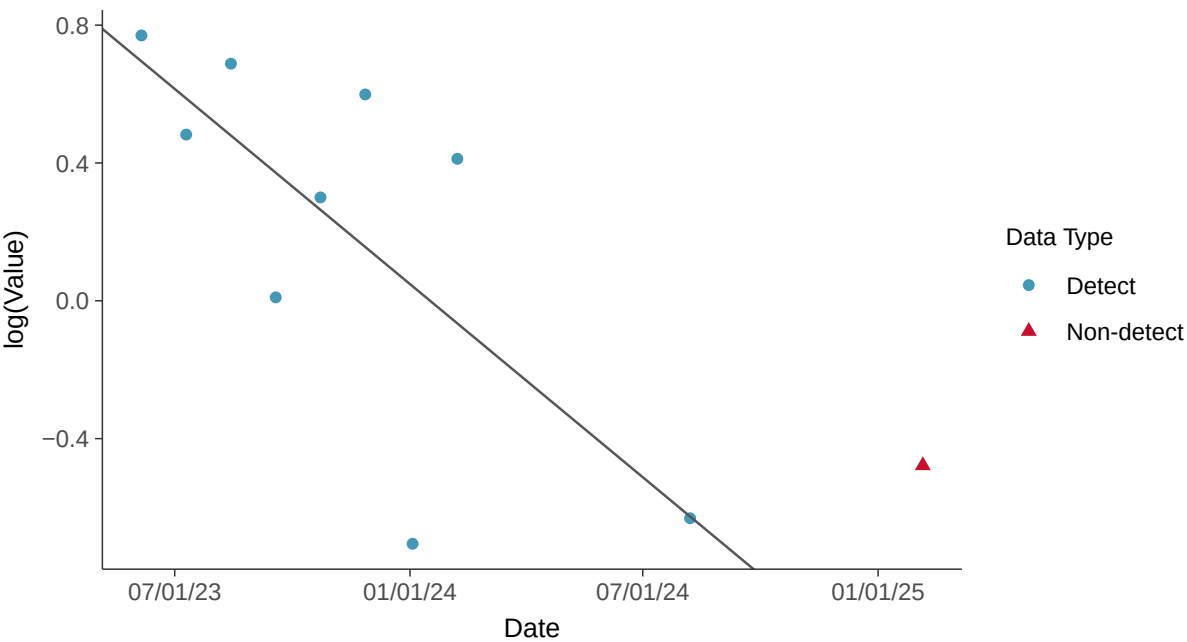
Gamma Q-Q plot using ROS Imputed Estimates

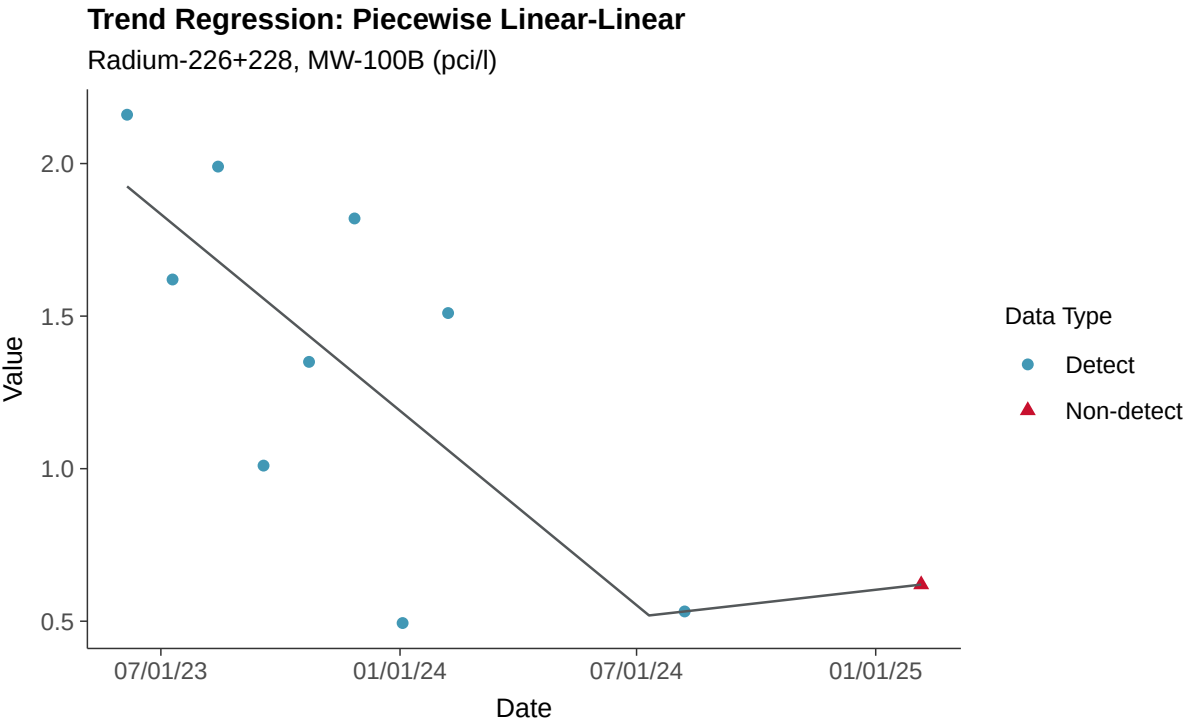
Radium-226+228, MW-100B (pci/l)



Trend Regression: Lognormal MLE

Radium-226+228, MW-100B (pci/l)

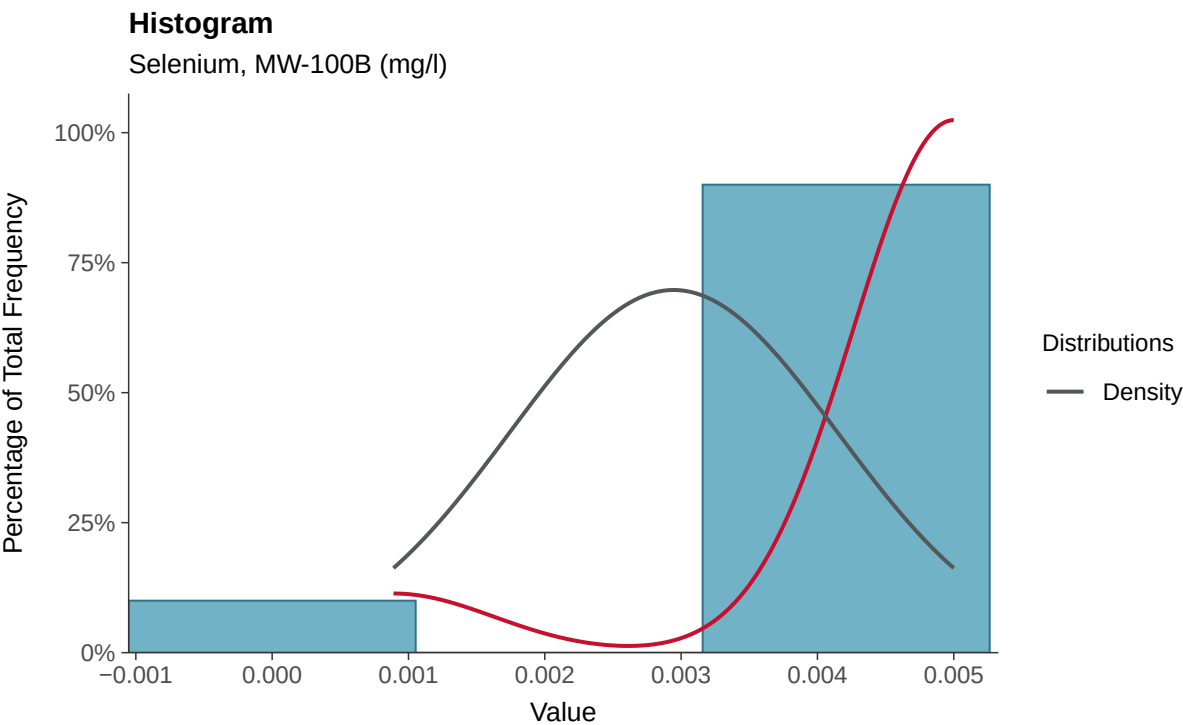
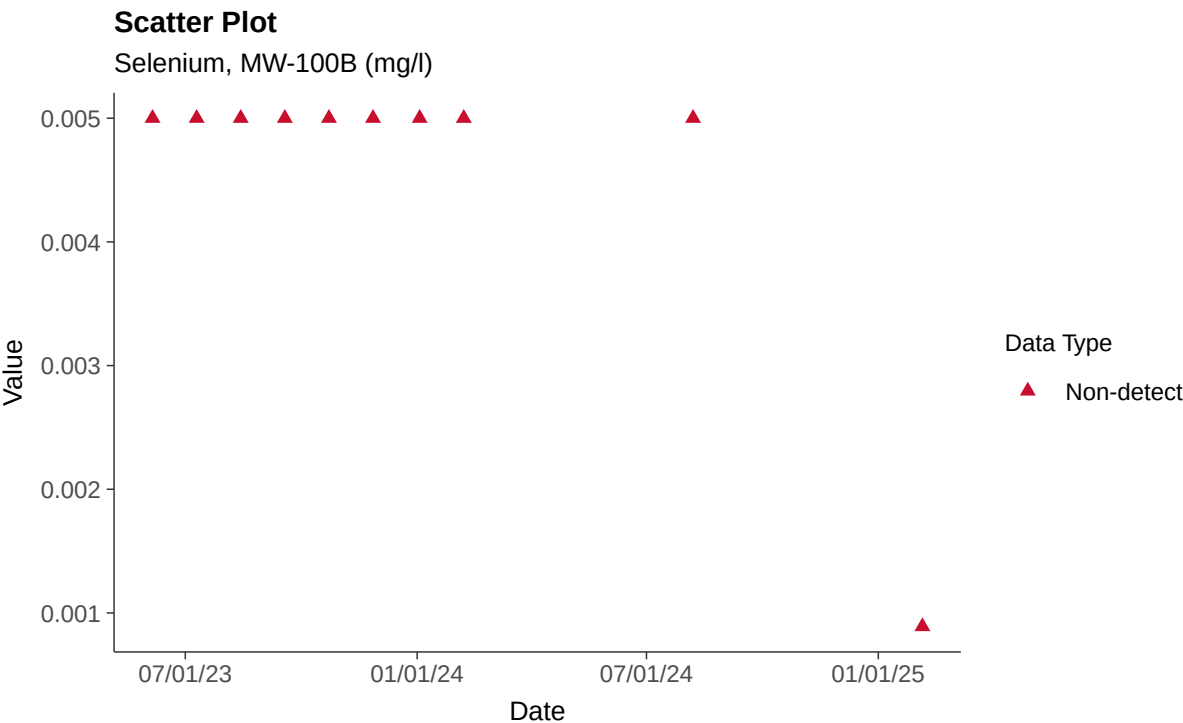


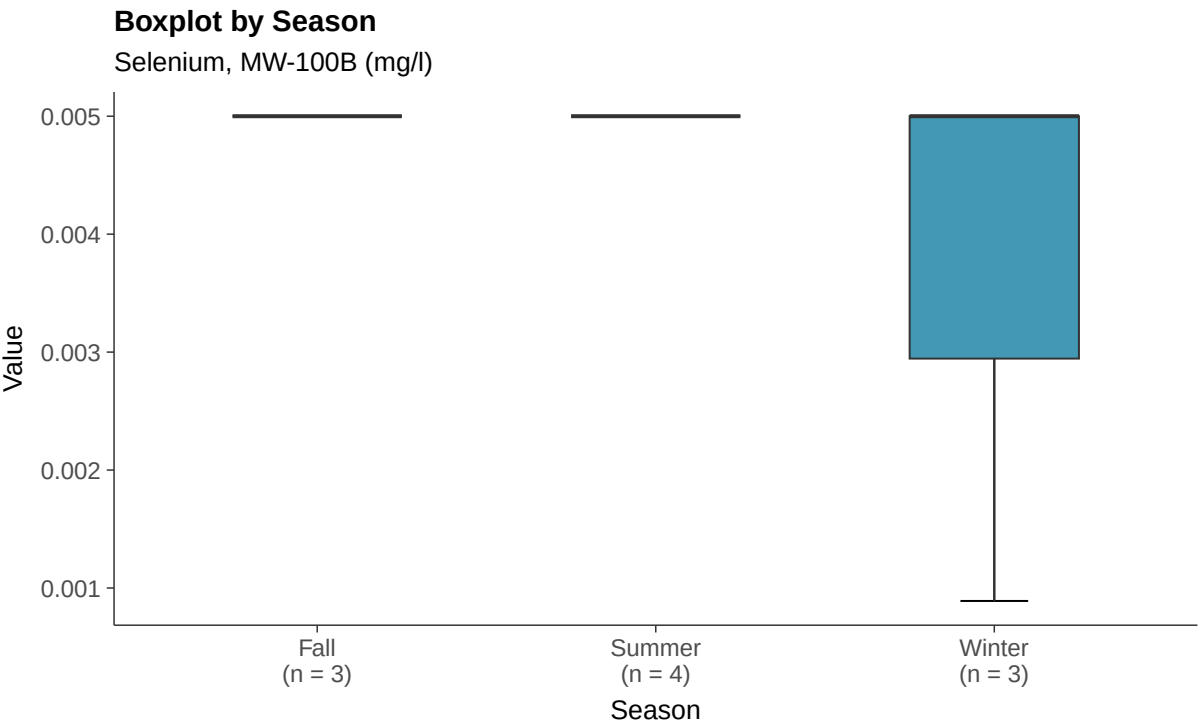
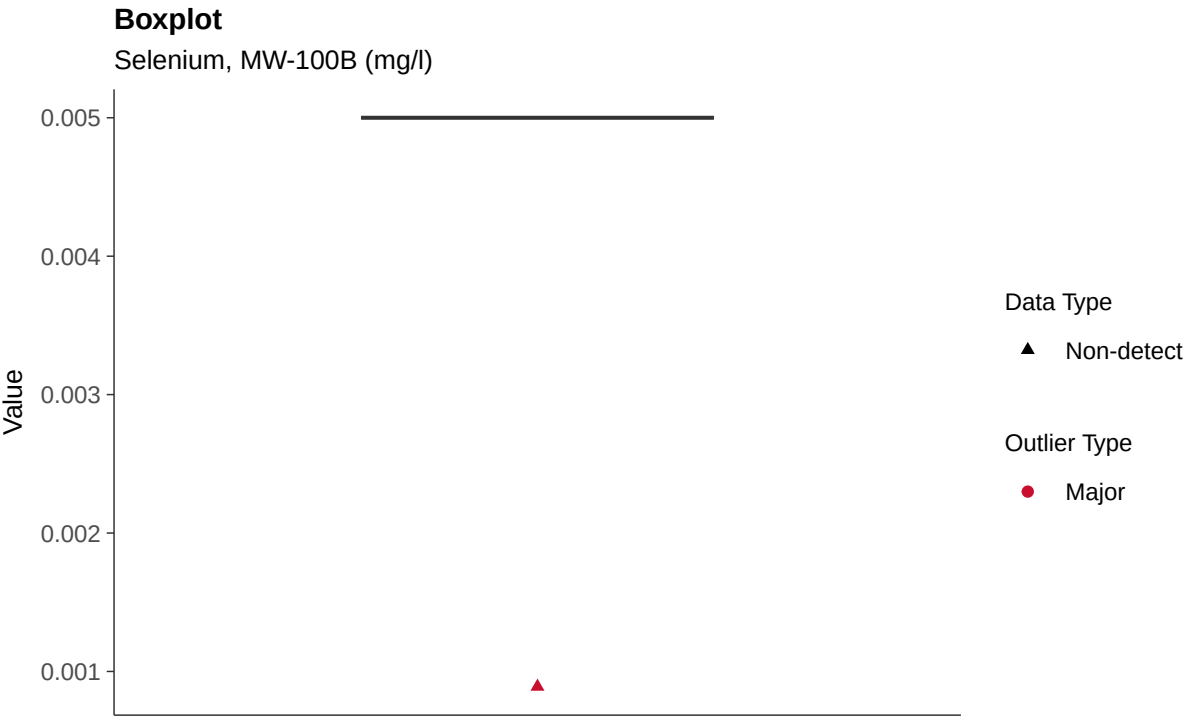




Appendix IV: Selenium, MW-100B

ID: 31_3_122

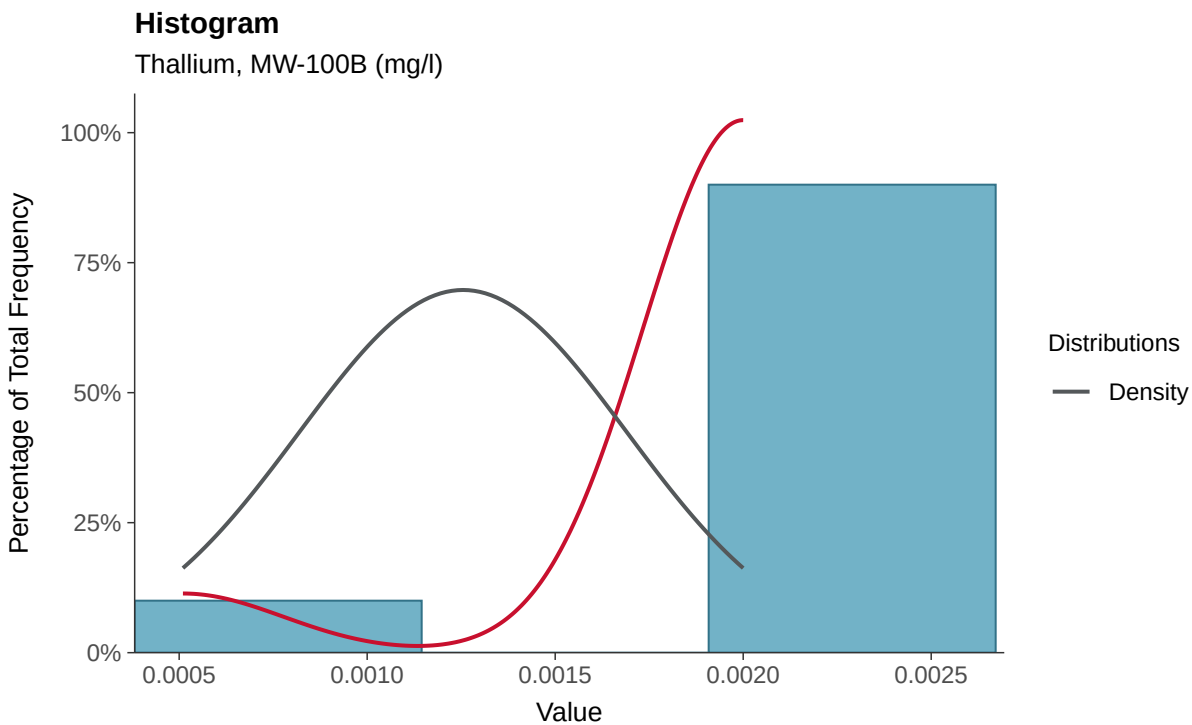
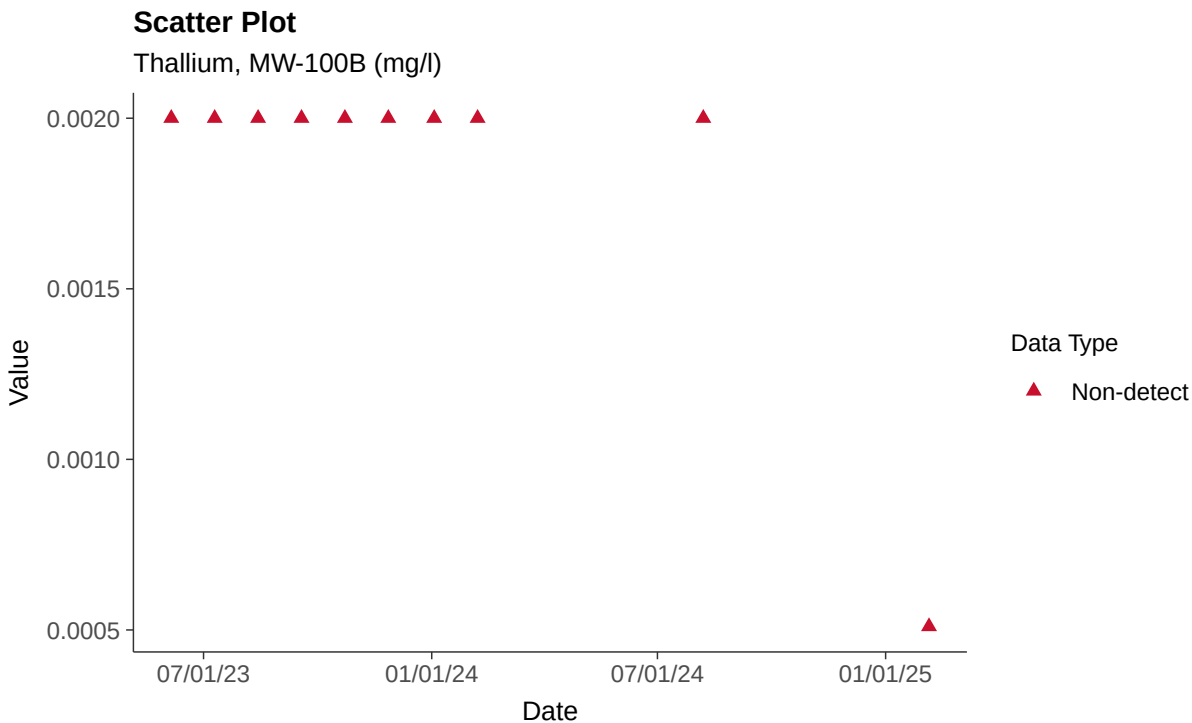


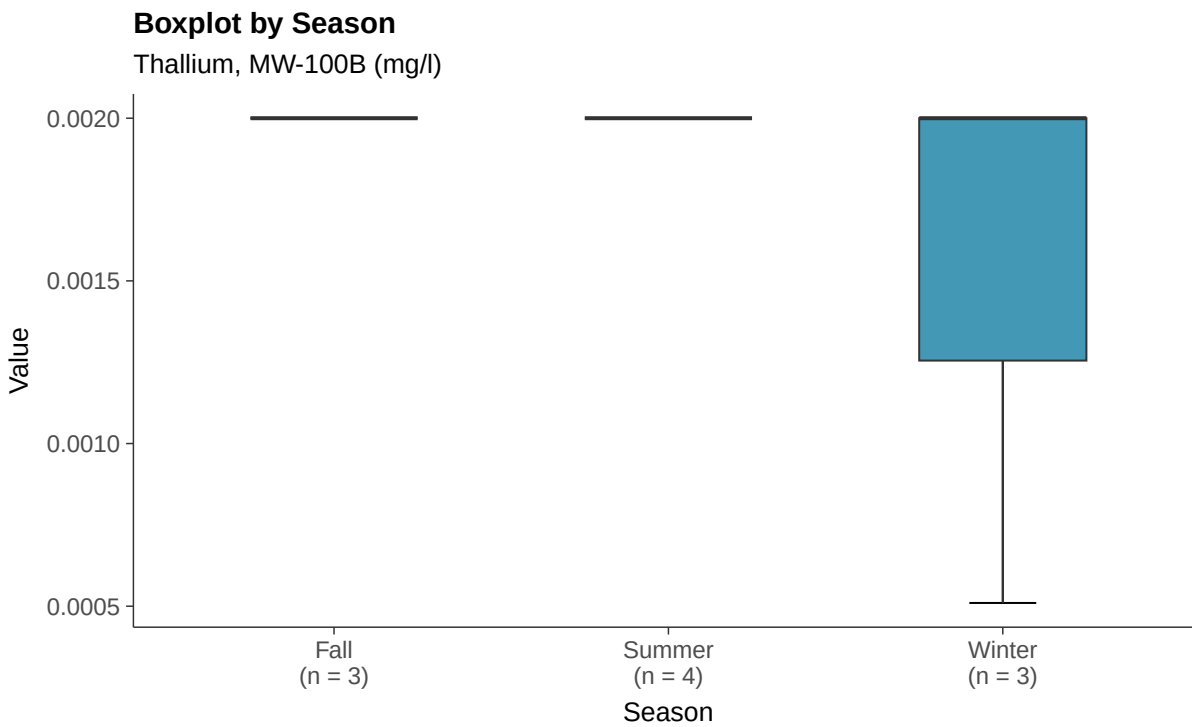
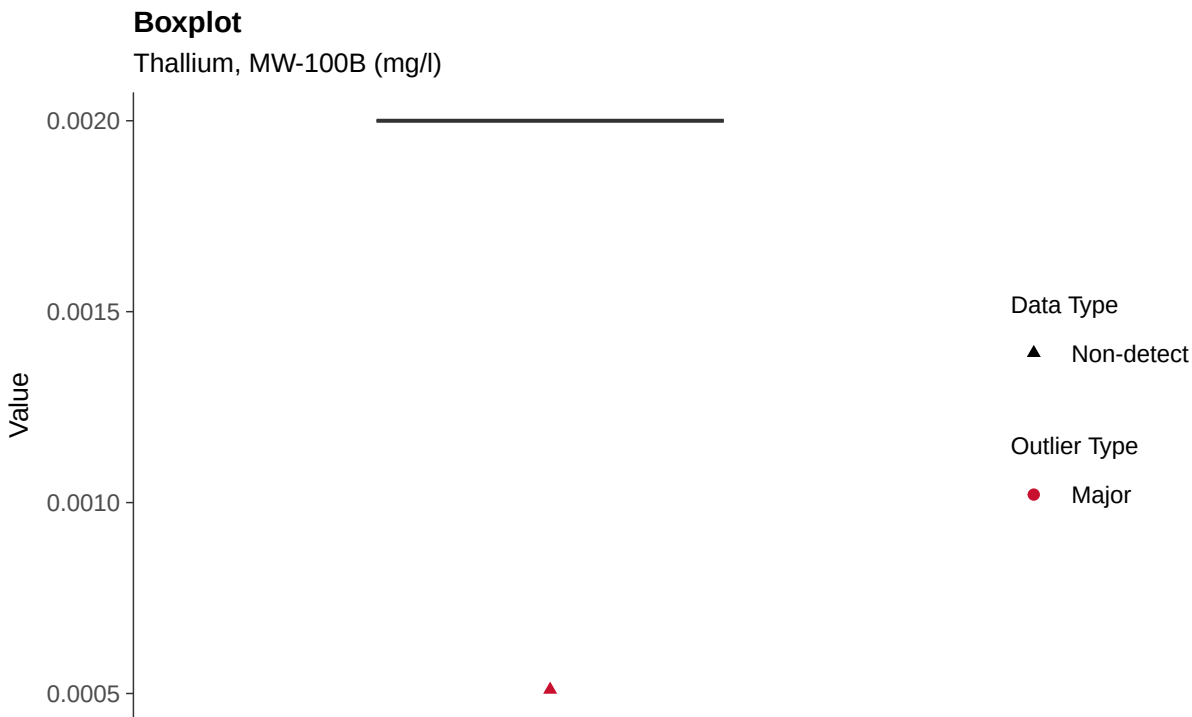




Appendix IV: Thallium, MW-100B

ID: 31_3_125

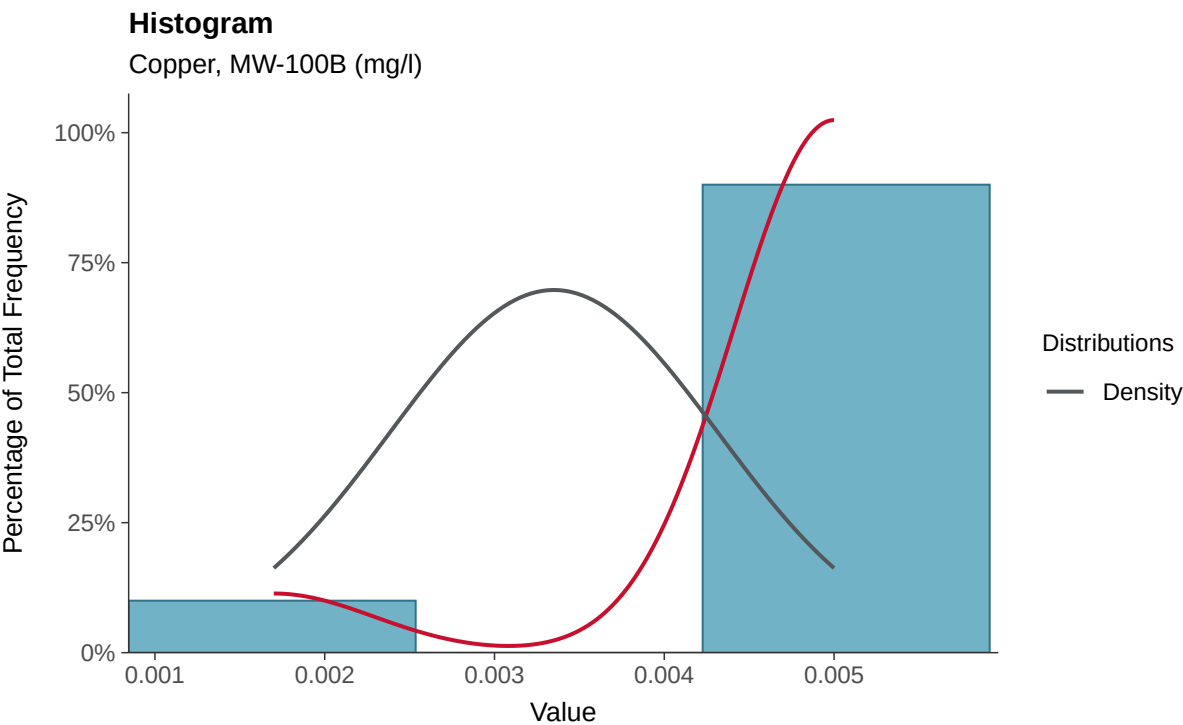
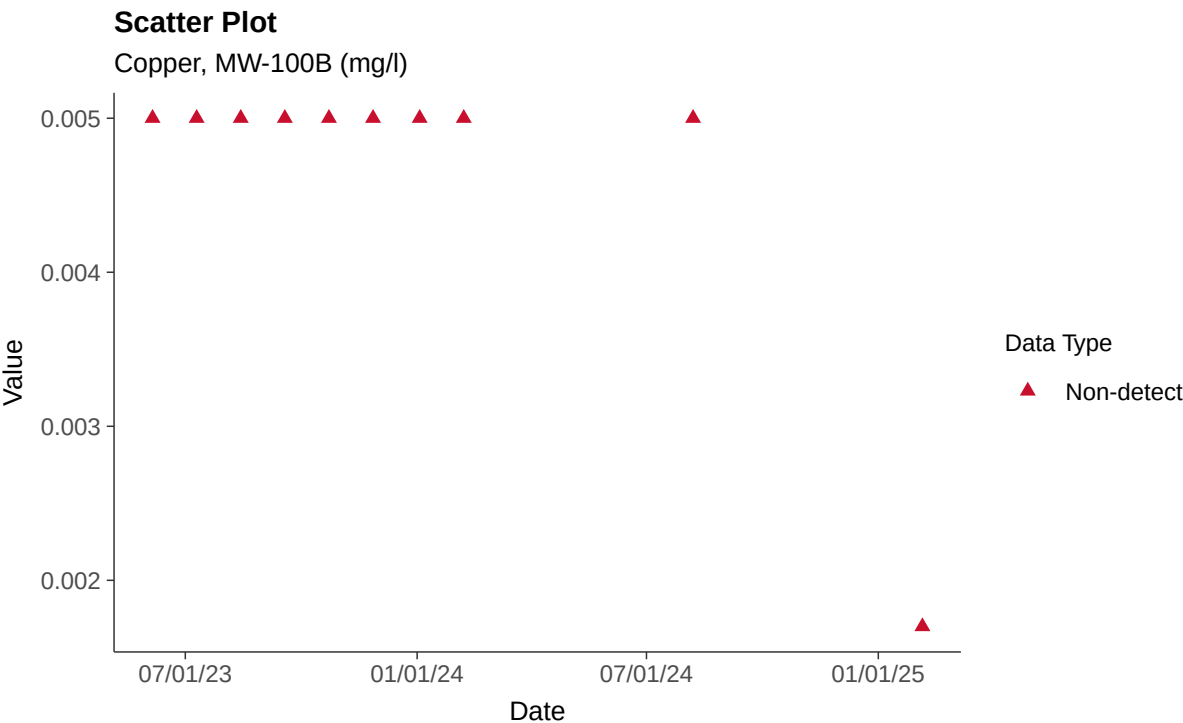


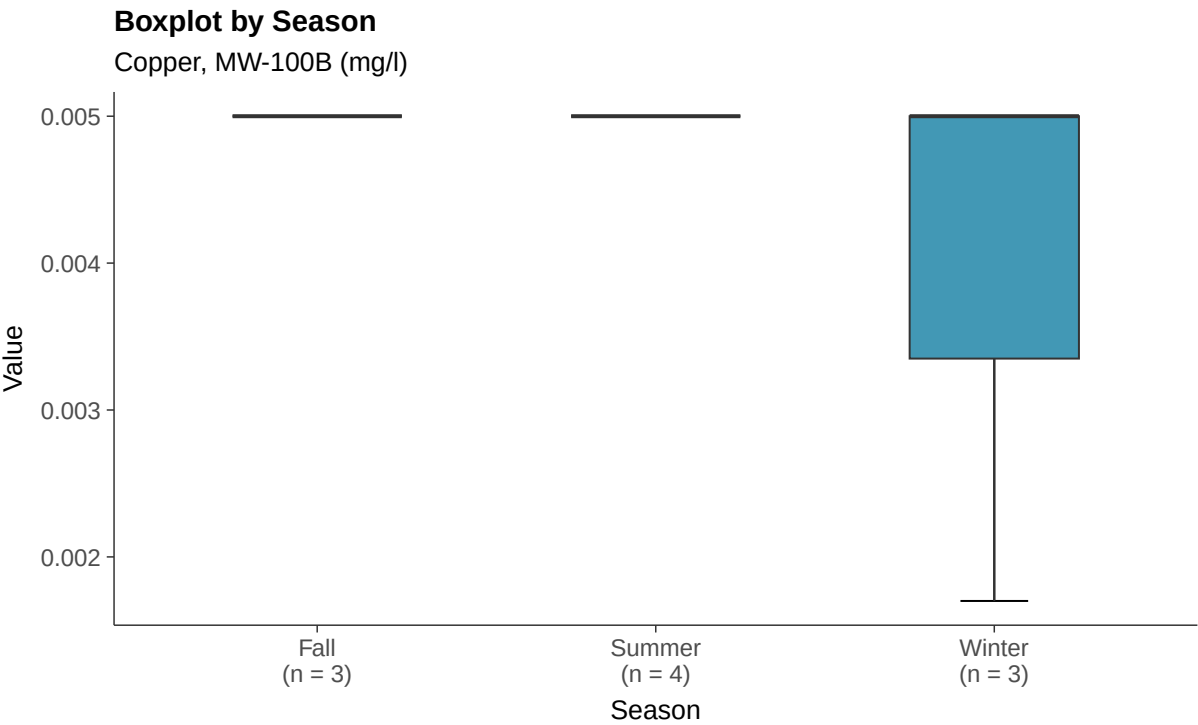
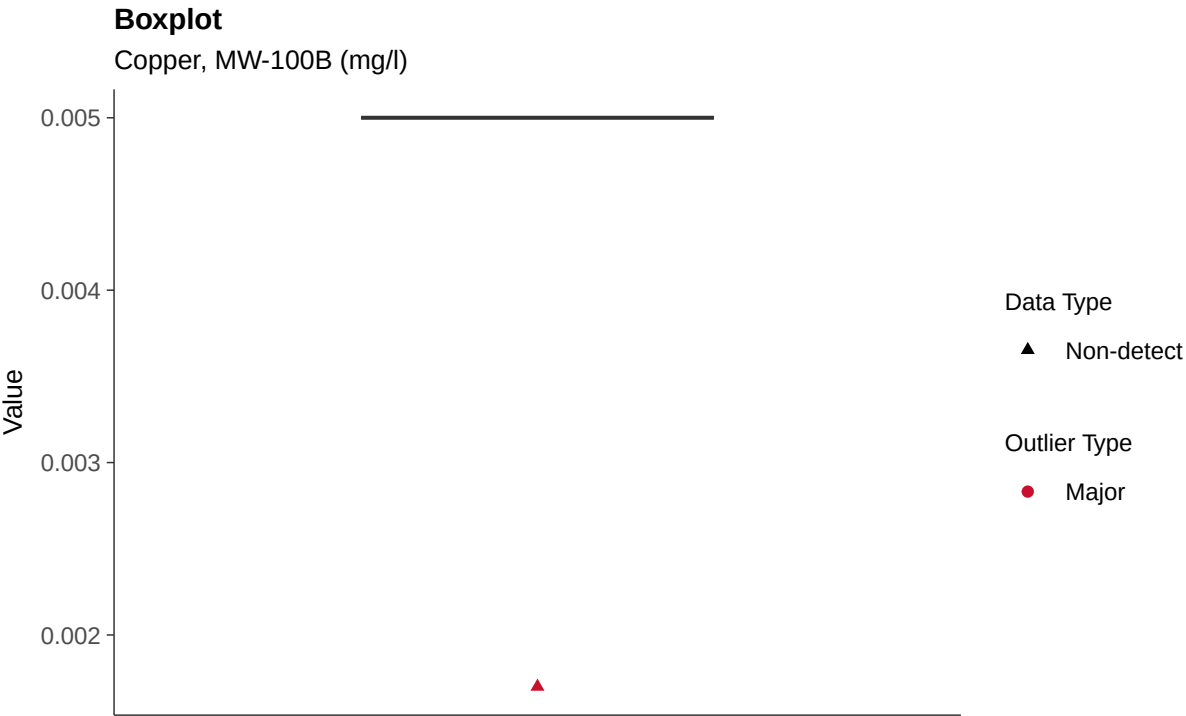




Part 115: Copper, MW-100B

ID: 31_5_111

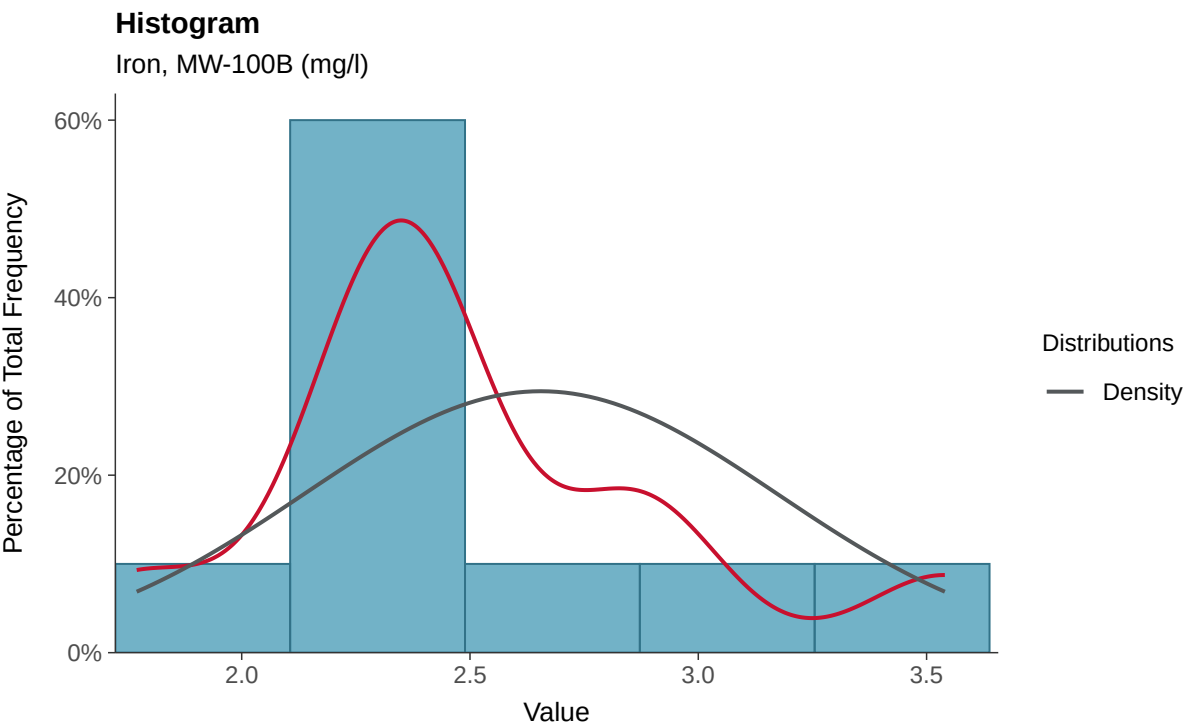
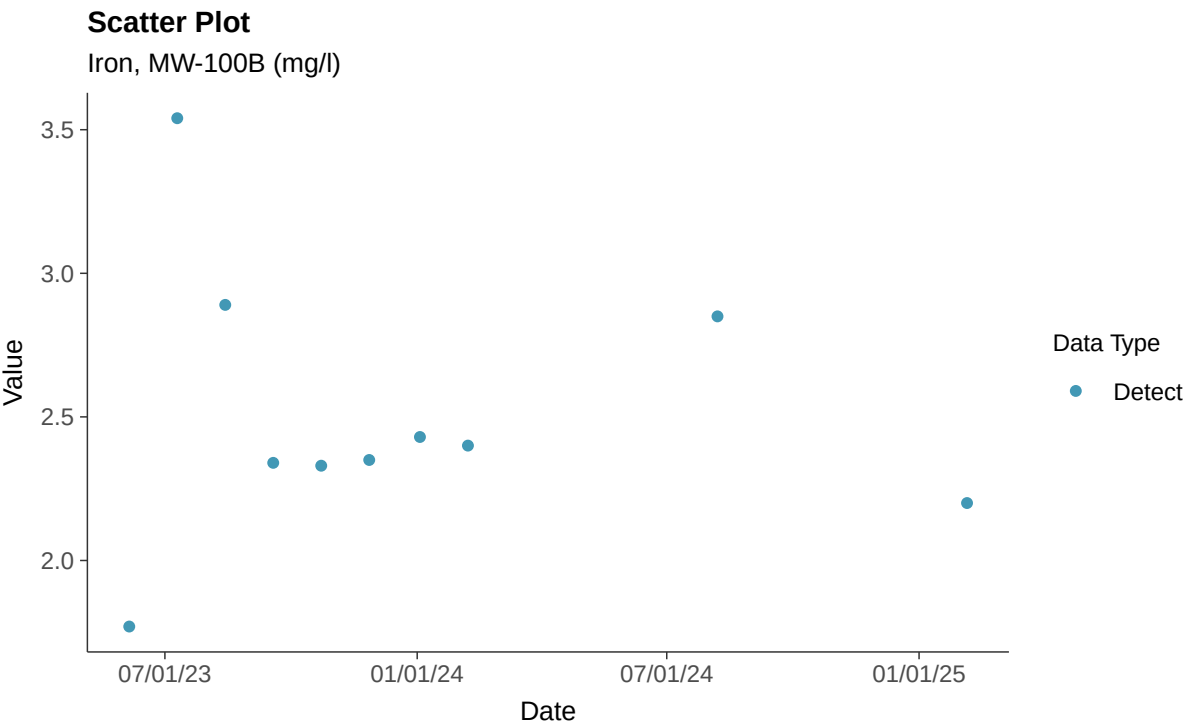


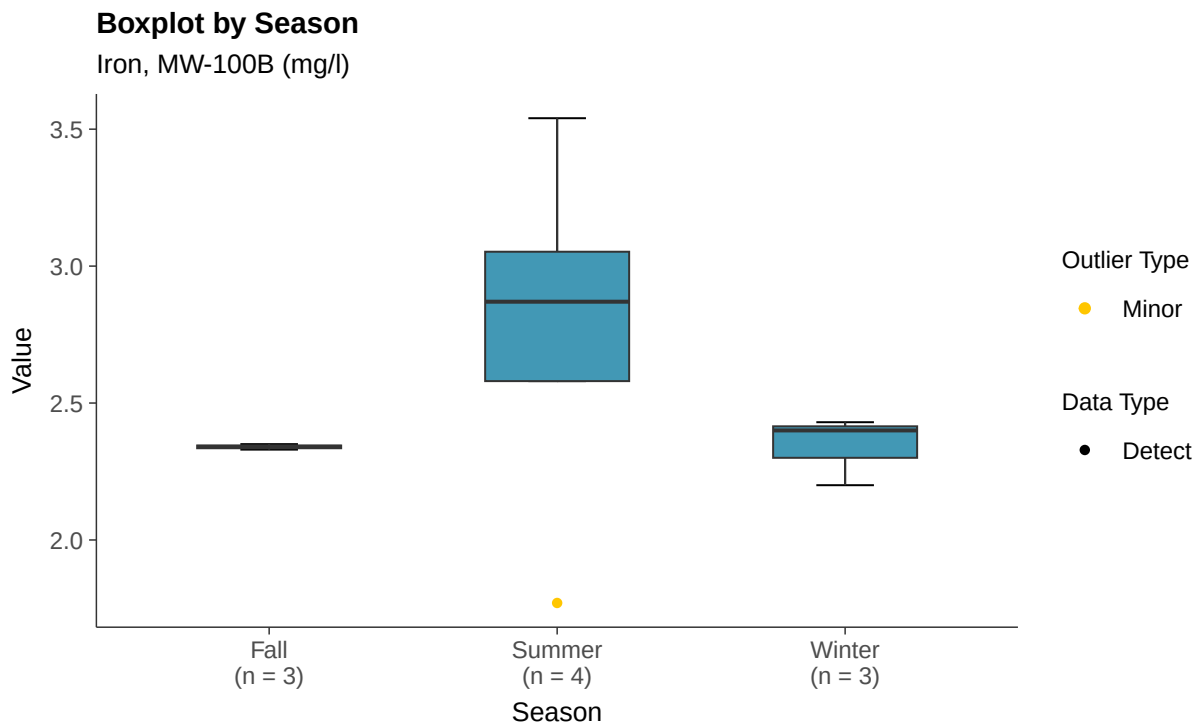
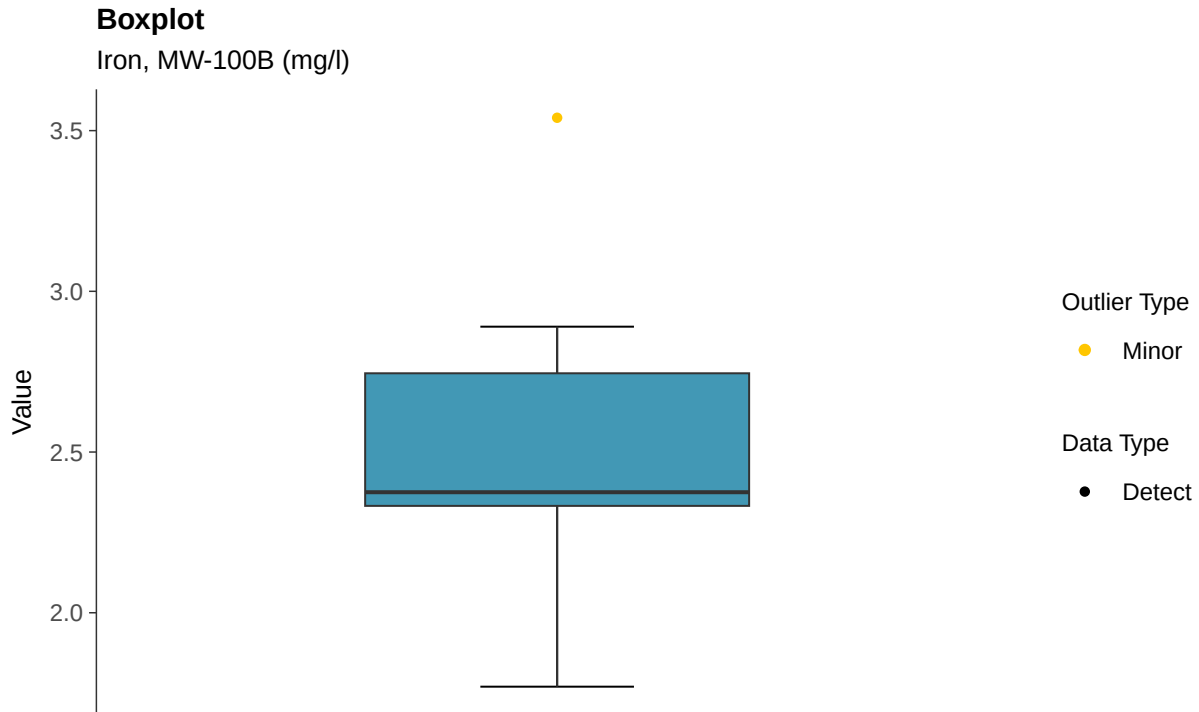


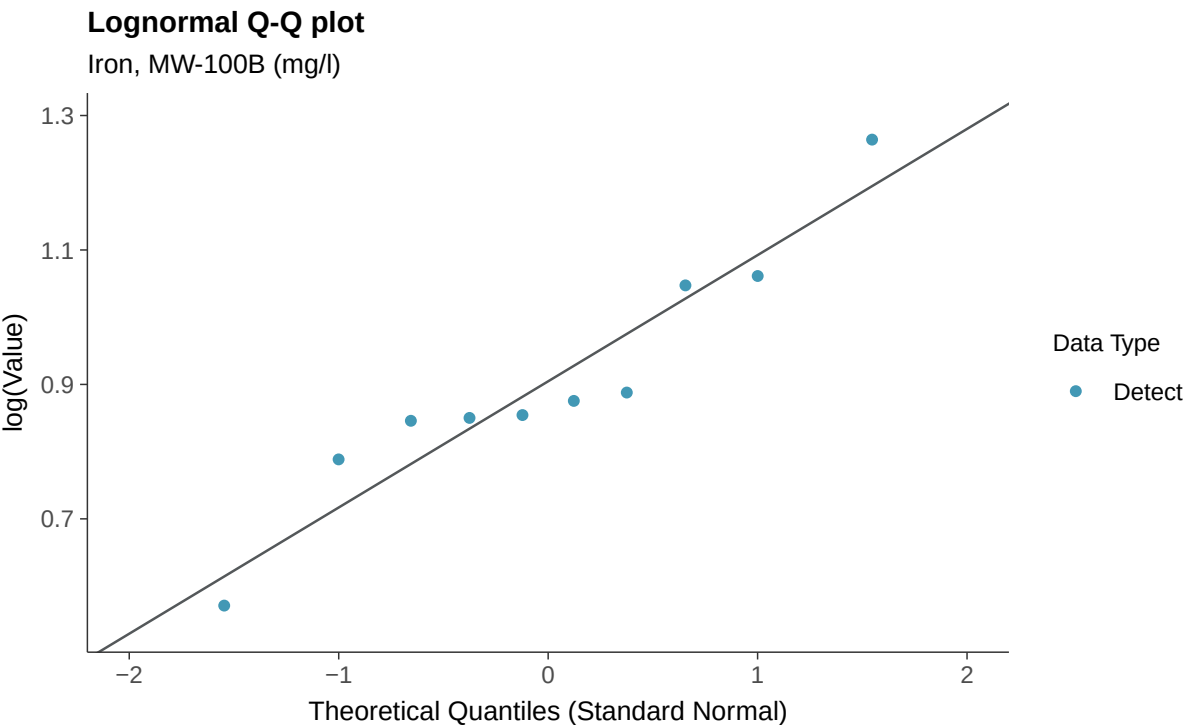
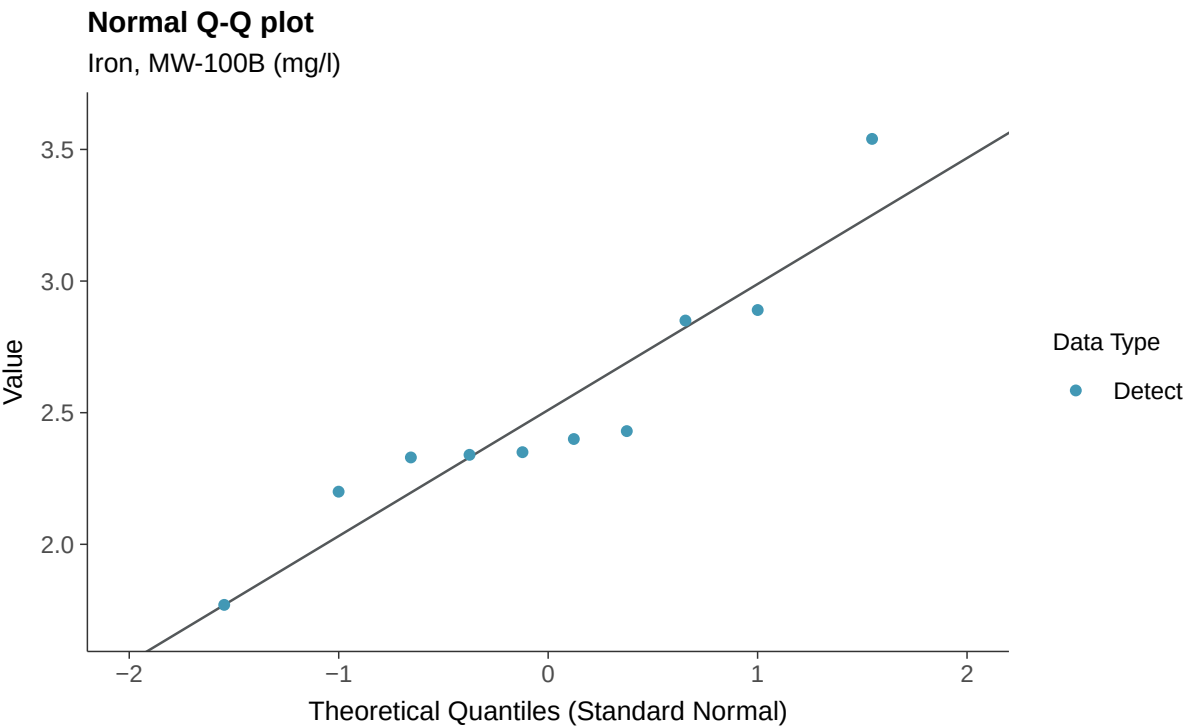


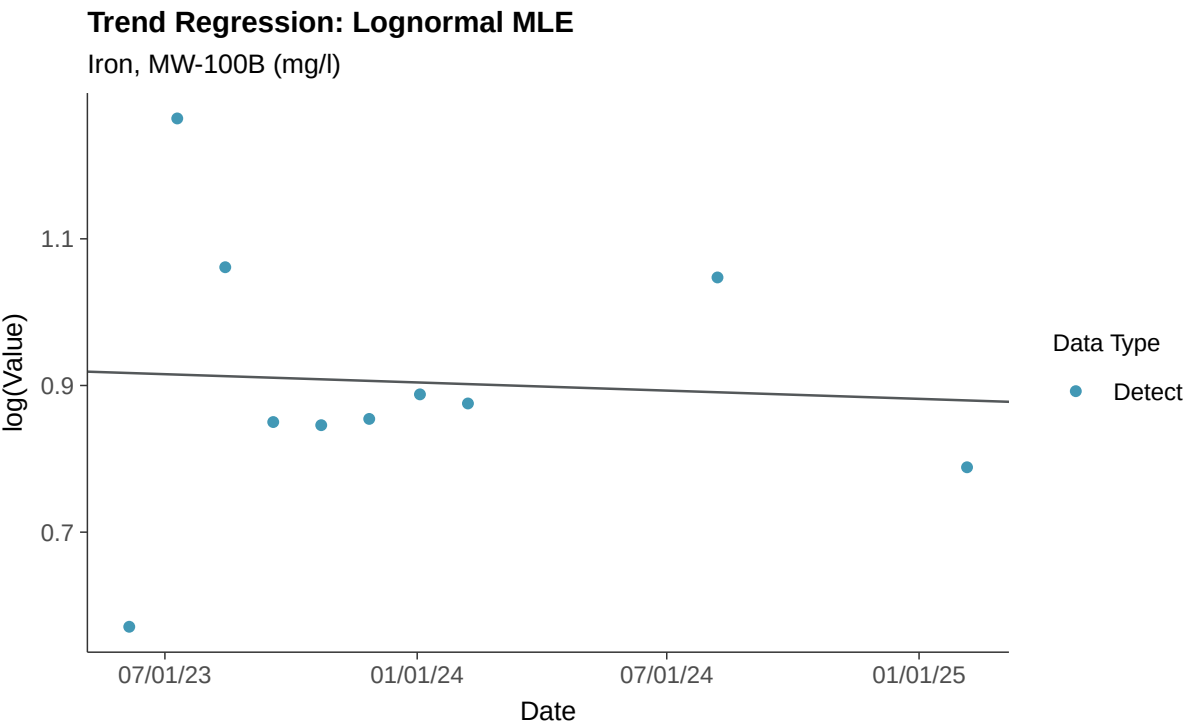
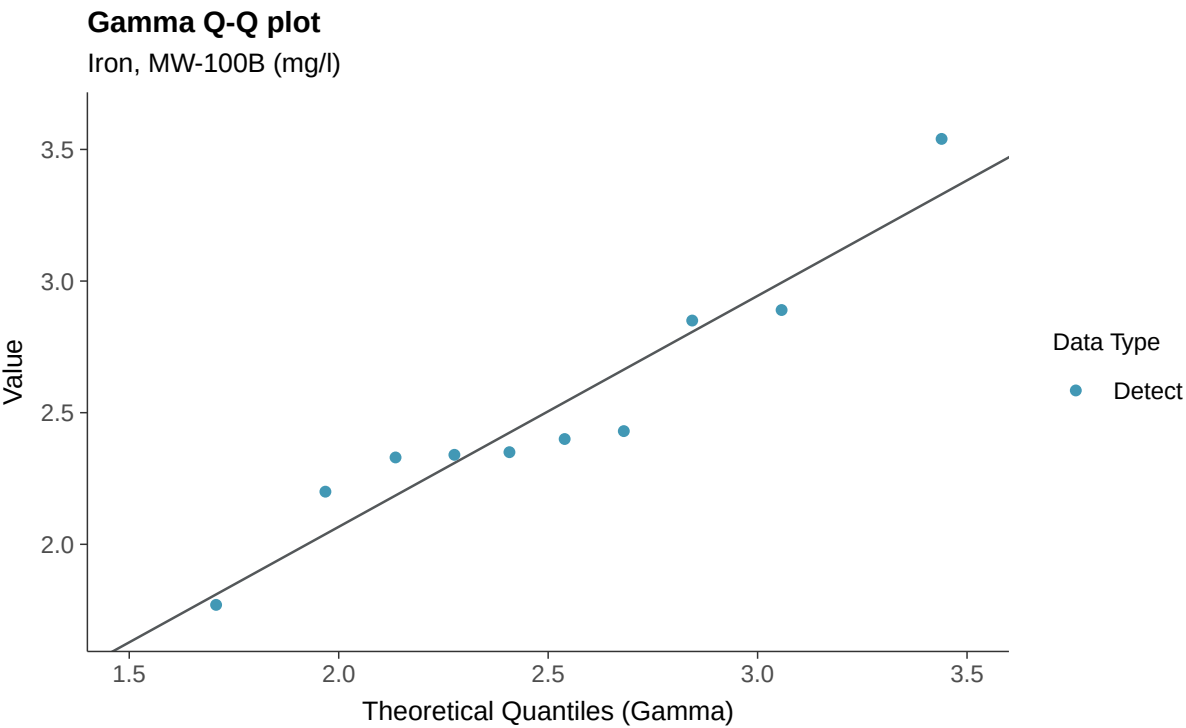
Part 115: Iron, MW-100B

ID: 31_5_114





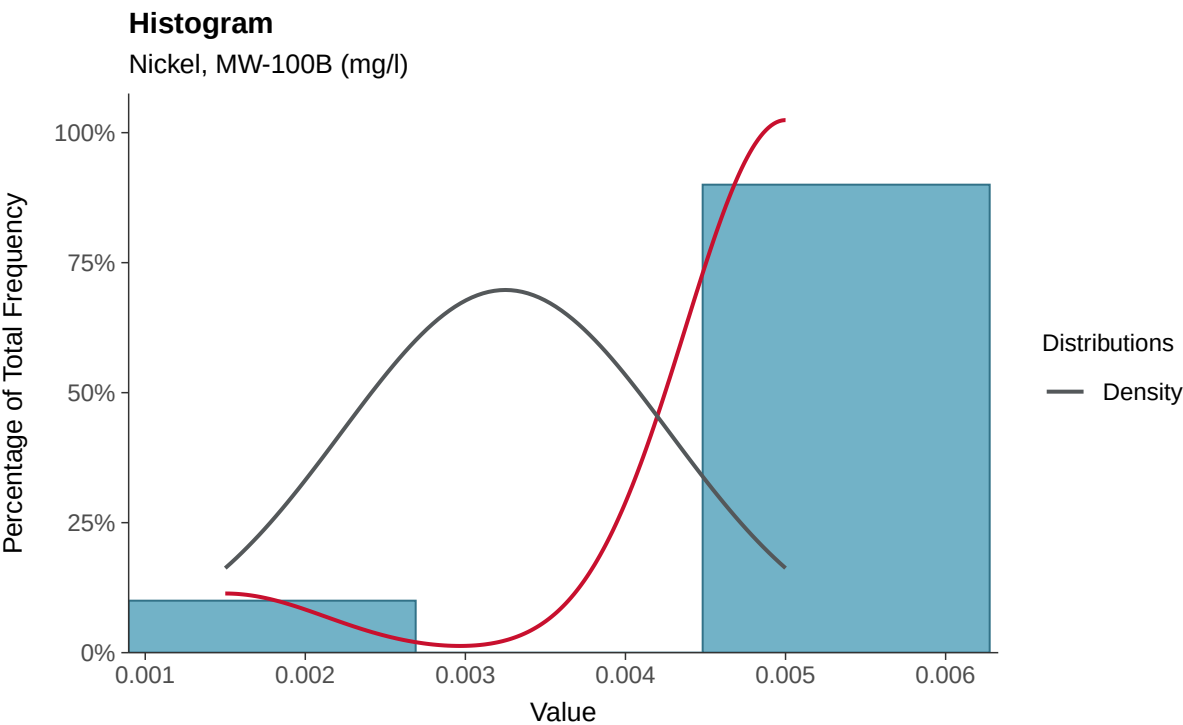
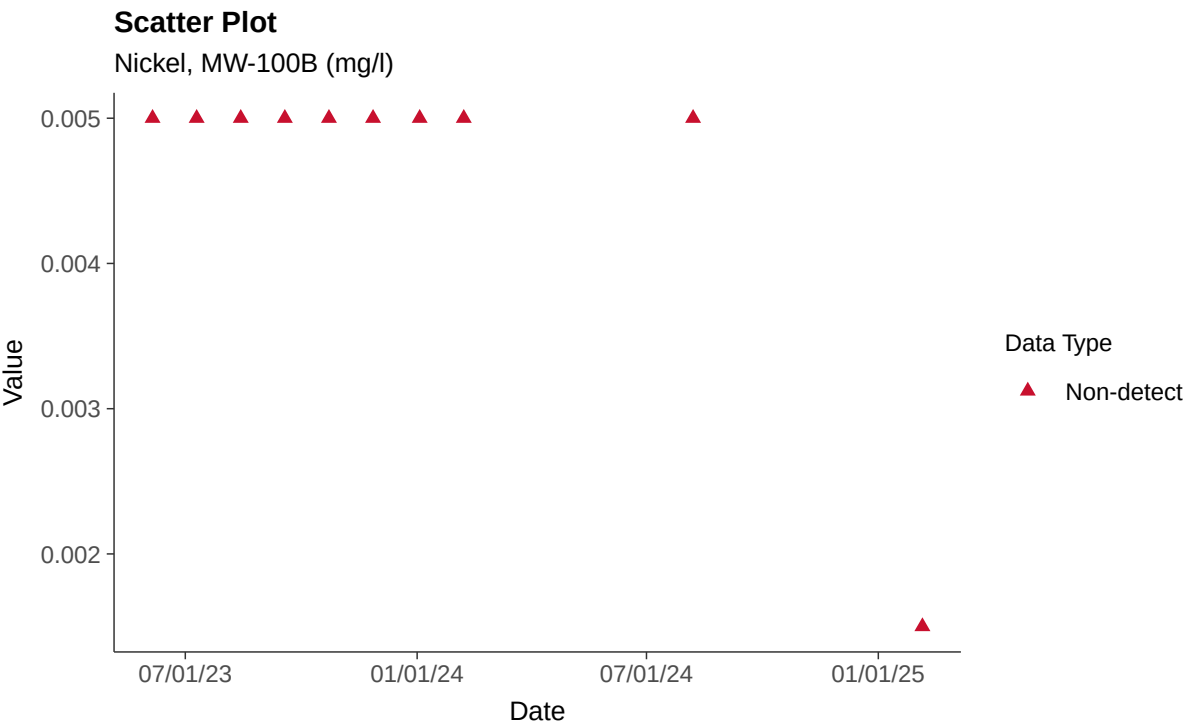


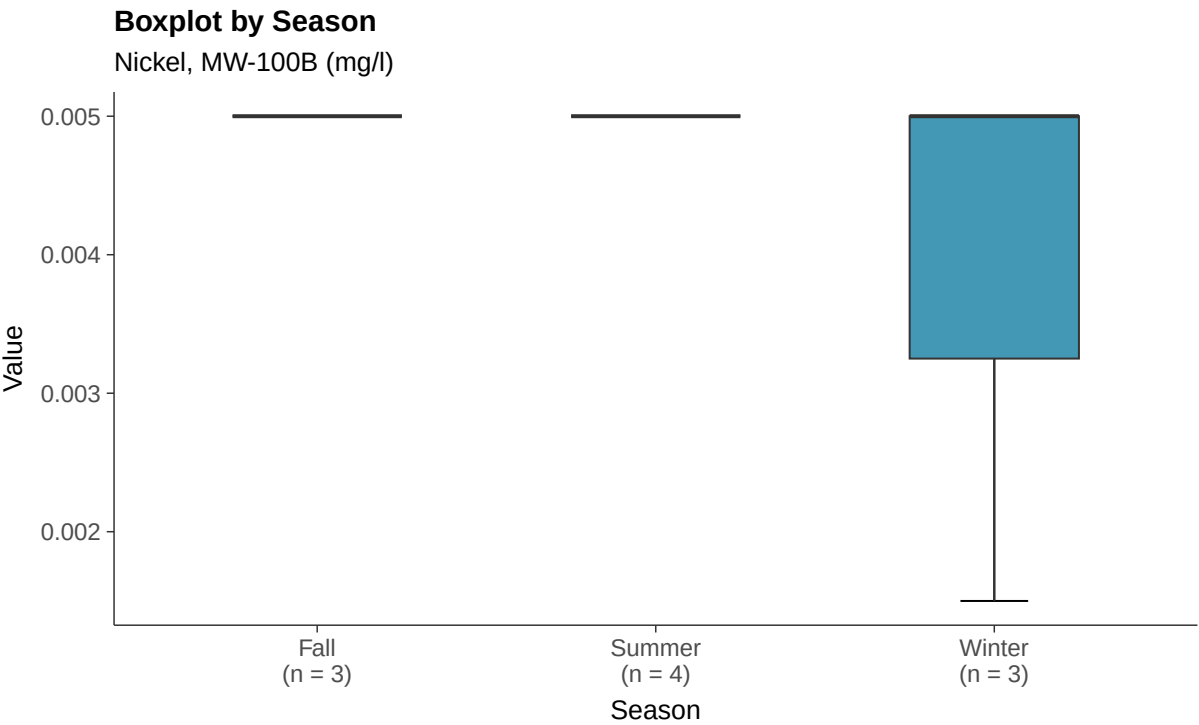
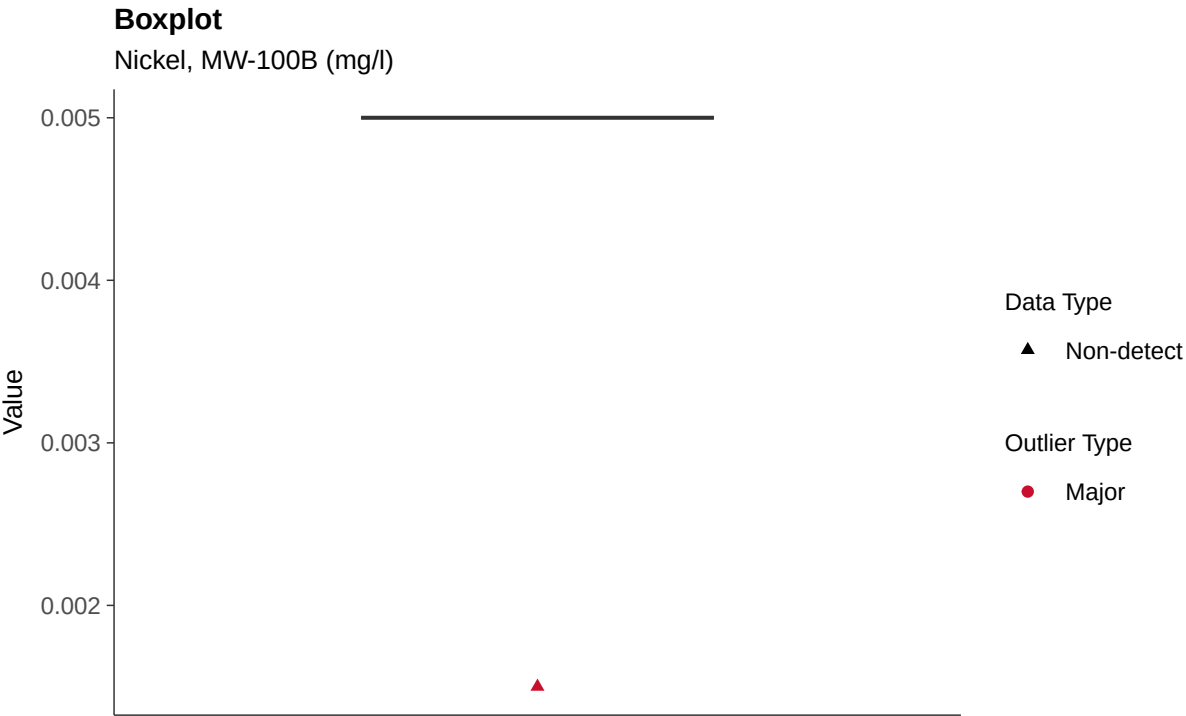




Part 115: Nickel, MW-100B

ID: 31_5_119

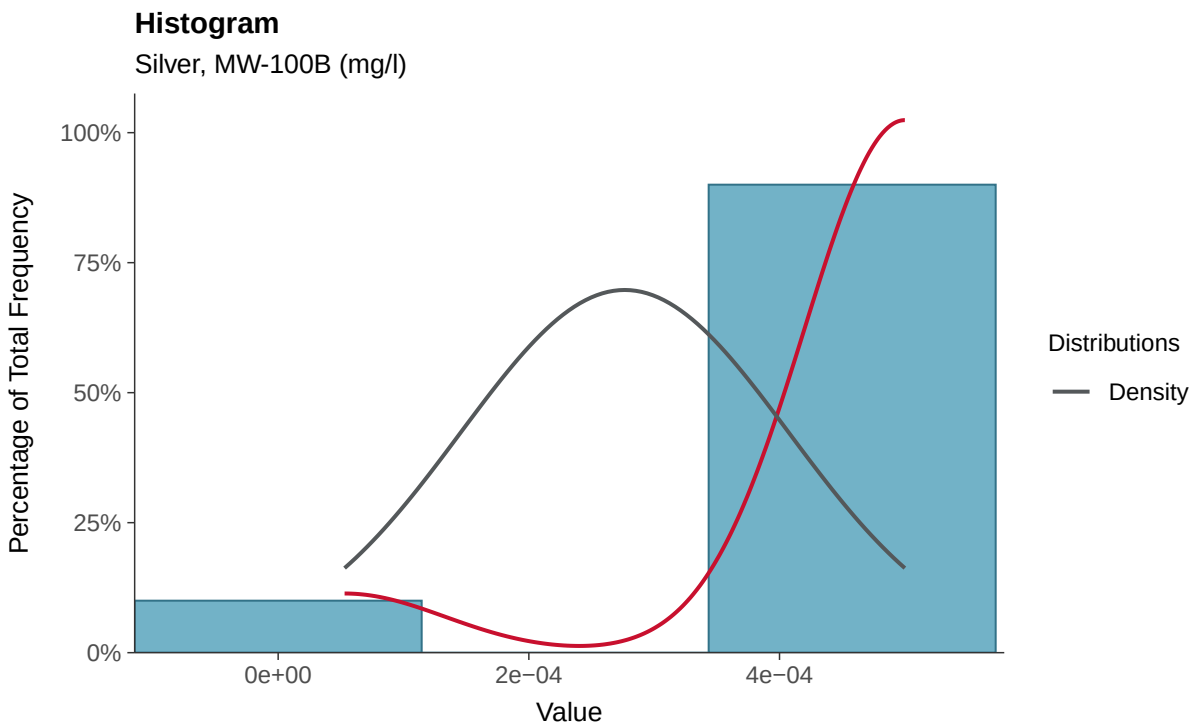
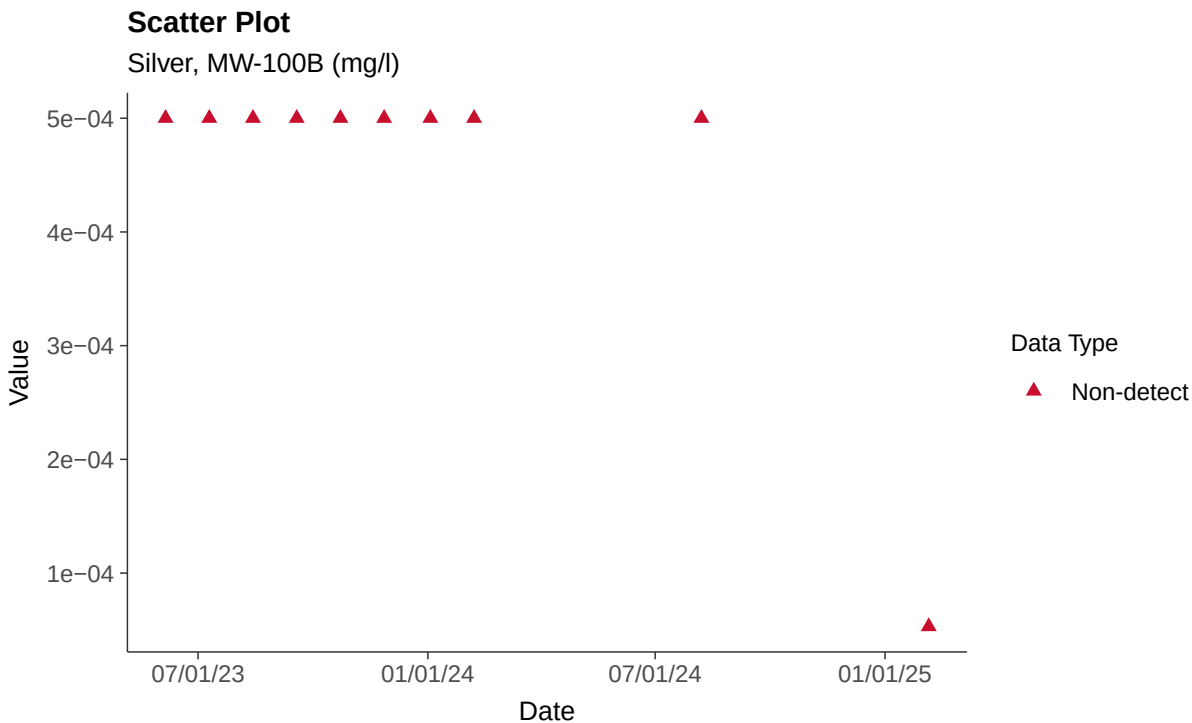


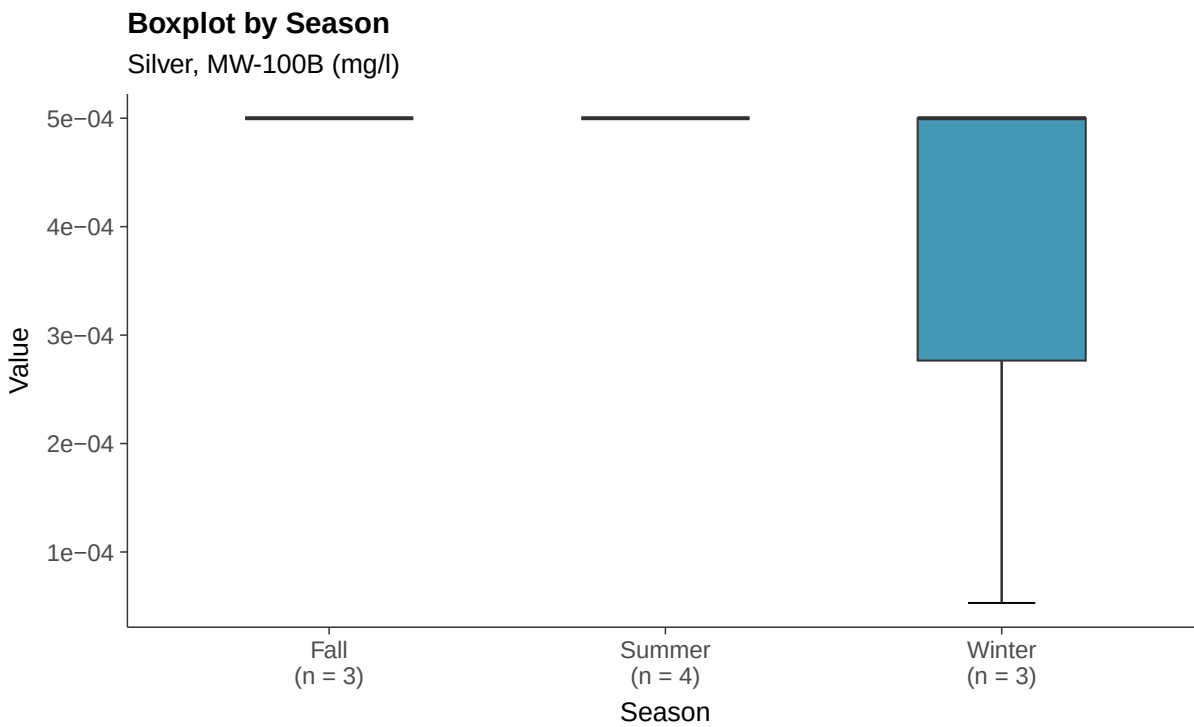
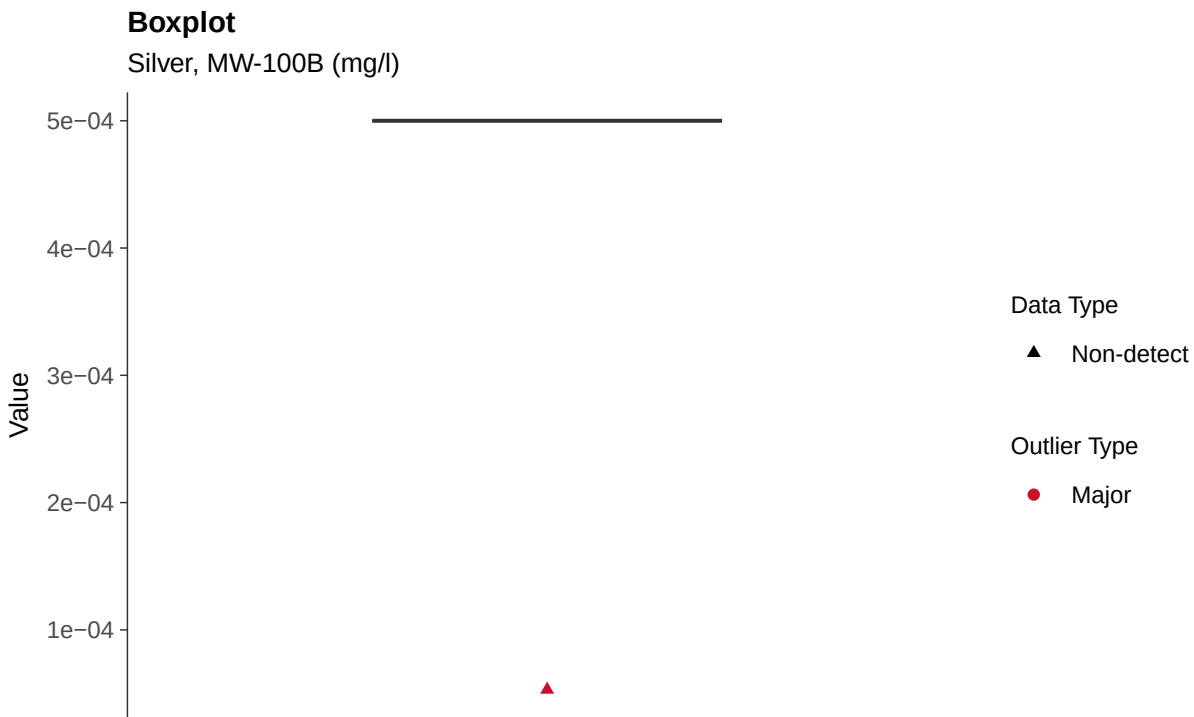




Part 115: Silver, MW-100B

ID: 31_5_123

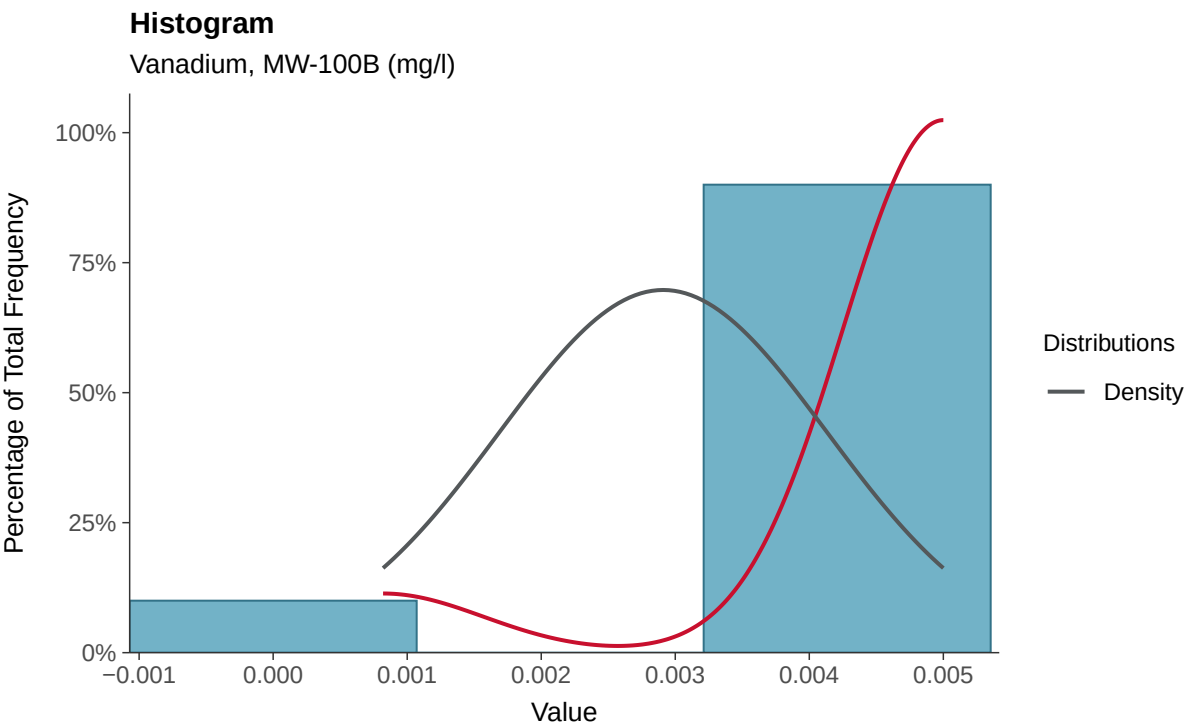
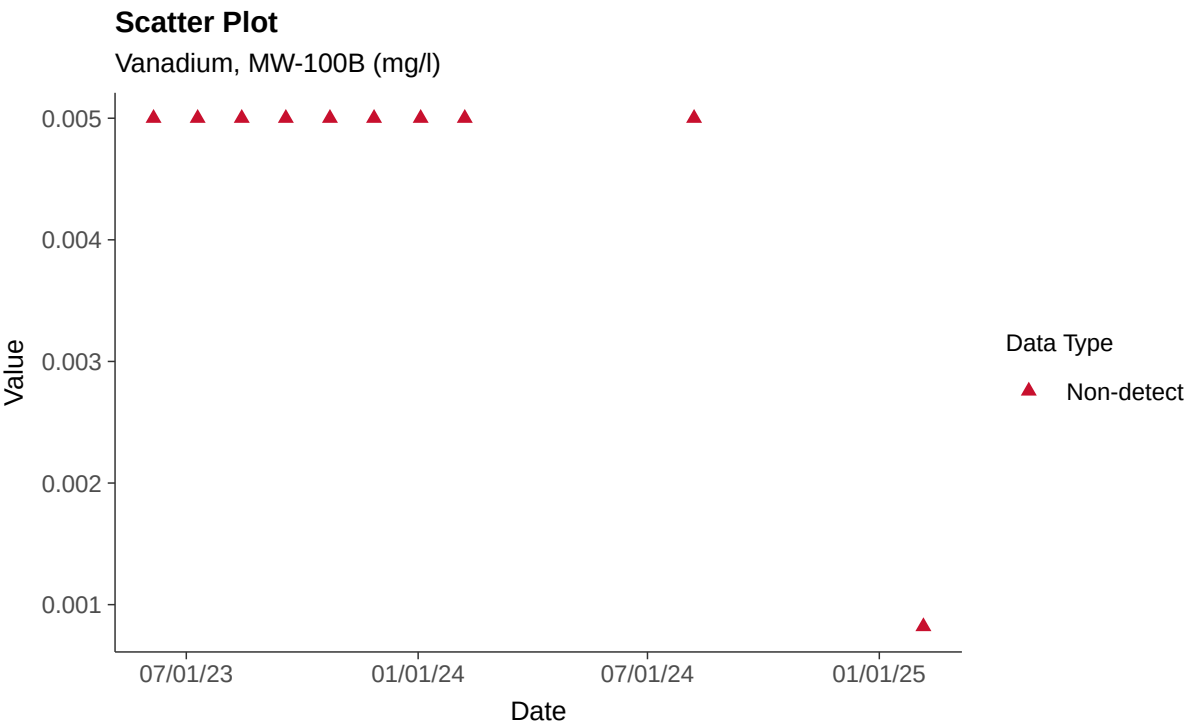


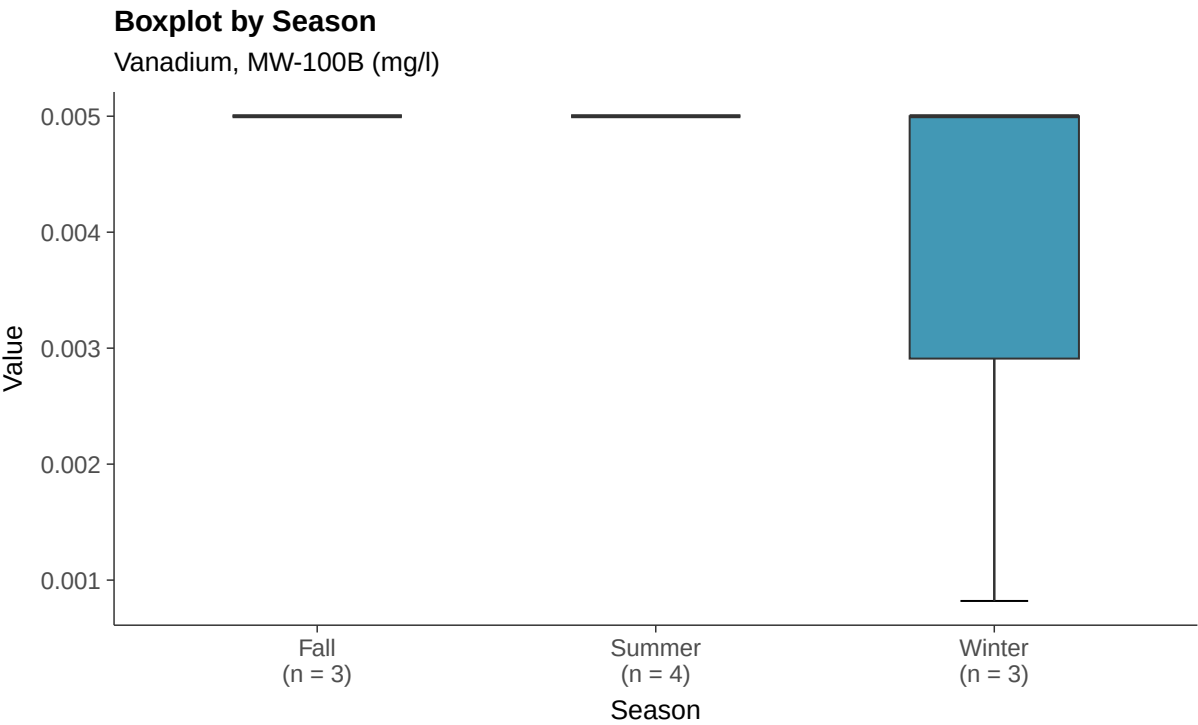
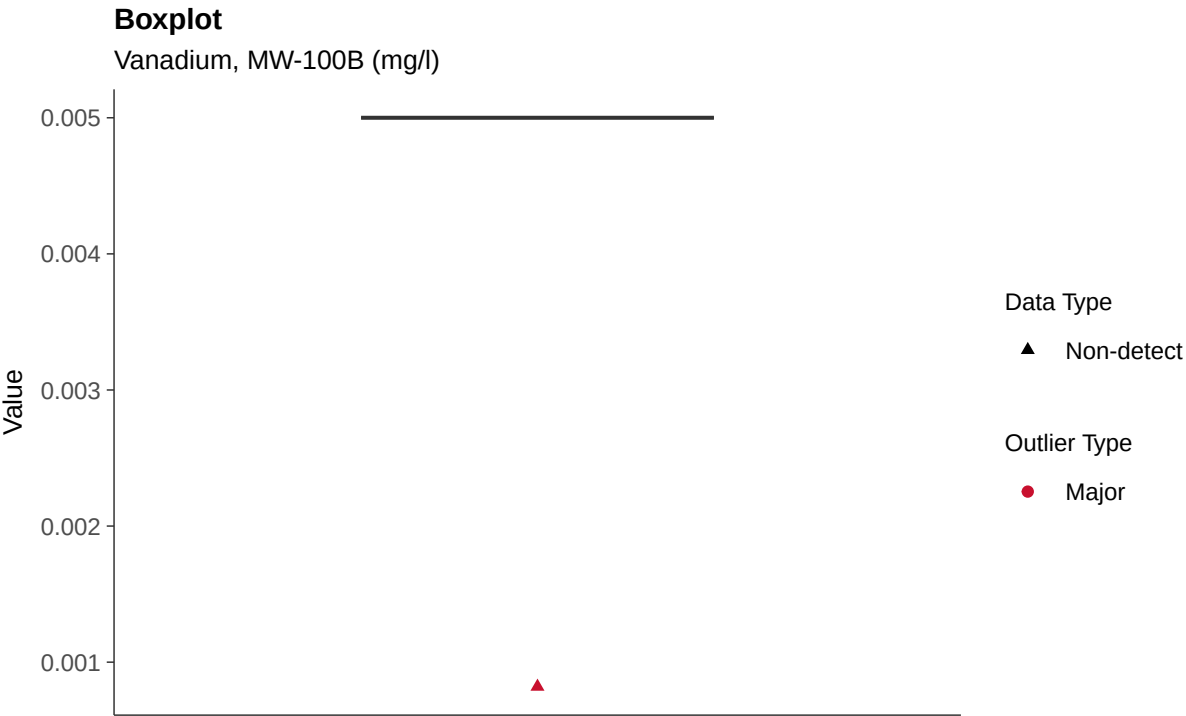




Part 115: Vanadium, MW-100B

ID: 31_5_128

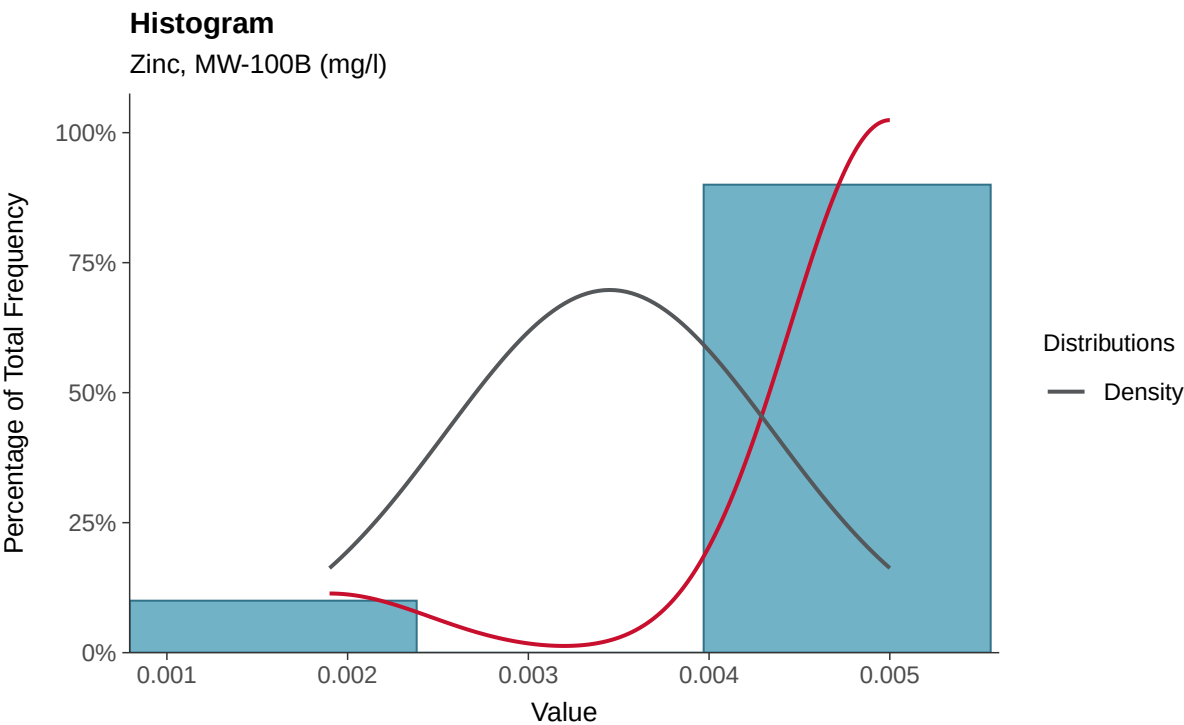
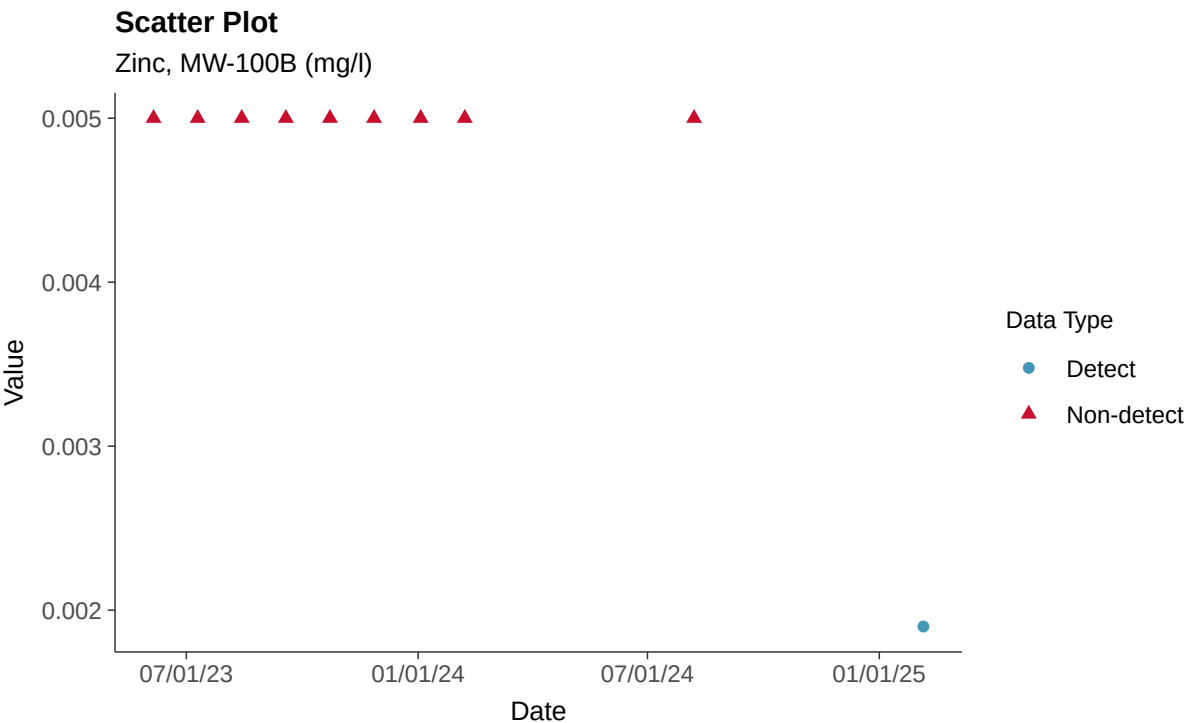


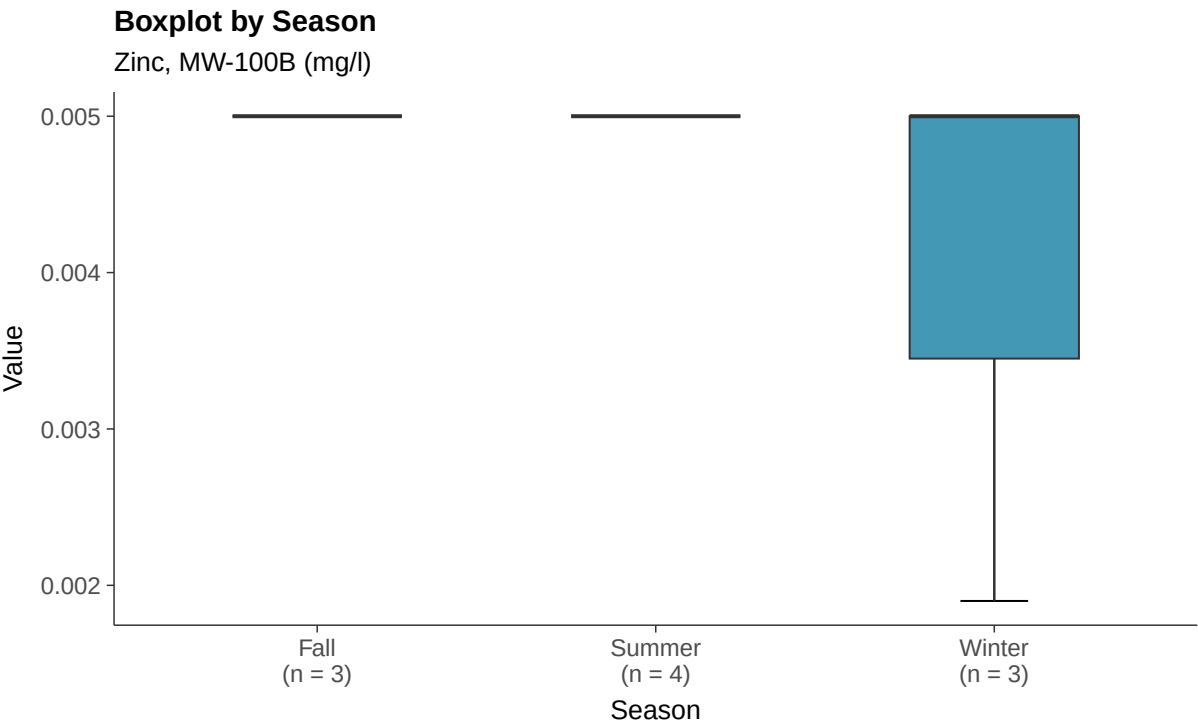
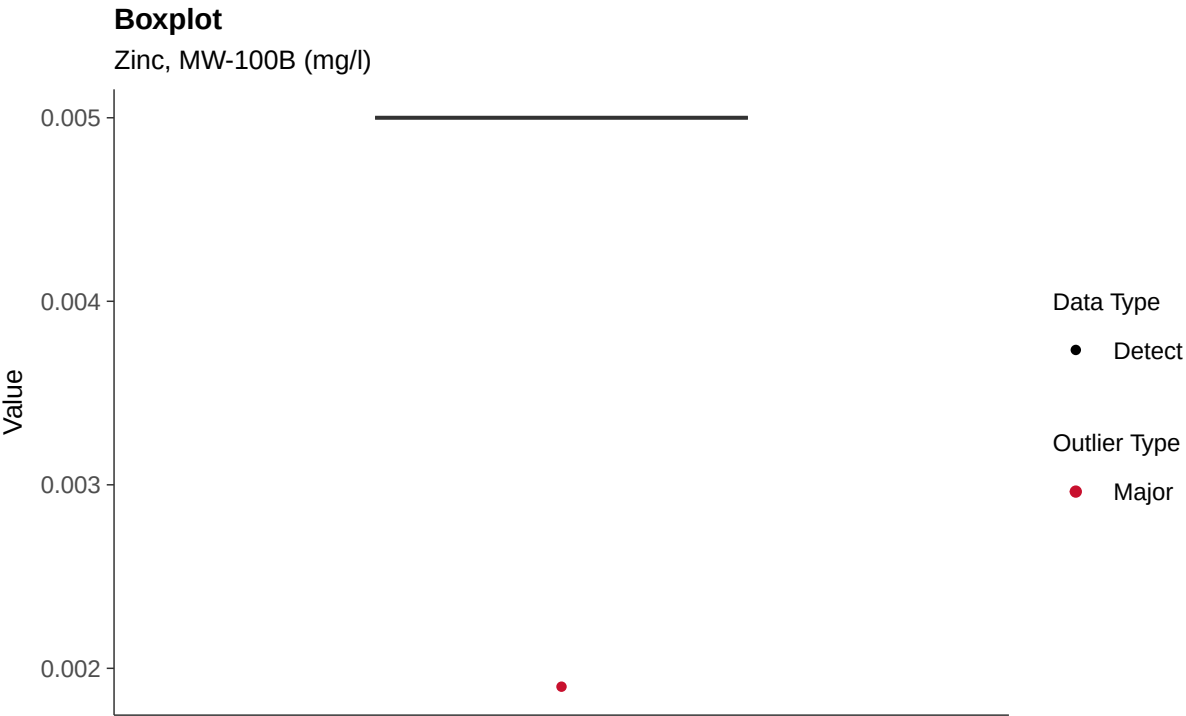




Part 115: Zinc, MW-100B

ID: 31_5_129





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_105	MW-7B	Appendix III	Boron	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	2.98	2.98	2.80	3.17	0.0940	0.0315	0.107
11_2_107	MW-7B	Appendix III	Calcium	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	9.00	9.14	7.60	10.2	0.633	0.0704	-0.482
11_2_108	MW-7B	Appendix III	Chloride	mg/l	13	10	77%	2022-03-09 to 2025-02-05		Nonparametric	4.20	5.00	0.820	5.00	1.54	0.366	-1.57
11_2_112	MW-7B	Appendix III	Fluoride	mg/l	13	10	77%	2022-03-09 to 2025-02-05		Nonparametric	0.895	1.00	0.300	1.00	0.219	0.245	-2.15
11_2_120	MW-7B	Appendix III	pH, Field	su	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.97	8.00	7.73	8.17	0.148	0.0186	-0.0914
11_2_124	MW-7B	Appendix III	Sulfate	mg/l	13	10	77%	2022-03-09 to 2025-02-05		Nonparametric	4.22	5.00	1.10	5.00	1.52	0.360	-1.58
11_2_126	MW-7B	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	364	362	350	376	7.89	0.0217	0.0771
11_3_101	MW-7B	Appendix IV	Antimony	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.00466	0.00500	0.000570	0.00500	0.00123	0.264	-3.61
11_3_102	MW-7B	Appendix IV	Arsenic	mg/l	13	11	85%	2022-03-09 to 2025-02-05		Nonparametric	0.00206	0.00200	0.000750	0.00300	0.000542	0.263	-0.350
11_3_103	MW-7B	Appendix IV	Barium	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.00896	0.00900	0.00750	0.0110	0.00105	0.117	0.438
11_3_104	MW-7B	Appendix IV	Beryllium	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.000944	0.00100	0.000270	0.00100	0.000202	0.215	-3.61
11_3_106	MW-7B	Appendix IV	Cadmium	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.000467	0.000500	0.0000770	0.000500	0.000117	0.251	-3.61
11_3_109	MW-7B	Appendix IV	Chromium	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.00471	0.00500	0.00120	0.00500	0.00105	0.224	-3.61
11_3_110	MW-7B	Appendix IV	Cobalt	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.00462	0.00500	0.0000860	0.00500	0.00136	0.295	-3.61
11_3_113	MW-7B	Appendix IV	Fluoride (App IV)	mg/l	13	10	77%	2022-03-09 to 2025-02-05		Nonparametric	0.895	1.00	0.300	1.00	0.219	0.245	-2.15
11_3_115	MW-7B	Appendix IV	Lead	mg/l	13	12	92%	2022-03-09 to 2025-02-05		Nonparametric	0.00350	0.00300	0.000450	0.0120	0.00265	0.758	3.10
11_3_116	MW-7B	Appendix IV	Lithium	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Nonparametric	Nonparametric	0.0316	0.0320	0.0280	0.0340	0.00139	0.0439	-1.17
11_3_117	MW-7B	Appendix IV	Mercury	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.000195	0.000200	0.000130	0.000200	0.0000194	0.0998	-3.61
11_3_118	MW-7B	Appendix IV	Molybdenum	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.00470	0.00500	0.00110	0.00500	0.00108	0.230	-3.61
11_3_121	MW-7B	Appendix IV	Radium-226+228	pci/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.29	1.31	0.378	2.73	0.745	0.575	0.568
11_3_122	MW-7B	Appendix IV	Selenium	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.00468	0.00500	0.000890	0.00500	0.00114	0.243	-3.61
11_3_125	MW-7B	Appendix IV	Thallium	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.00189	0.00200	0.000510	0.00200	0.000413	0.219	-3.61
11_5_111	MW-7B	Part 115	Copper	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.00475	0.00500	0.00170	0.00500	0.000915	0.193	-3.61
11_5_114	MW-7B	Part 115	Iron	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0665	0.0600	0.0300	0.120	0.0273	0.411	0.377
11_5_119	MW-7B	Part 115	Nickel	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.00473	0.00500	0.00150	0.00500	0.000971	0.205	-3.61
11_5_123	MW-7B	Part 115	Silver	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.000466	0.000500	0.0000530	0.000500	0.000124	0.266	-3.61
11_5_128	MW-7B	Part 115	Vanadium	mg/l	13	13	100%	2022-03-09 to 2025-02-05		Nonparametric	0.00468	0.00500	0.000820	0.00500	0.00116	0.248	-3.61
11_5_129	MW-7B	Part 115	Zinc	mg/l	13	12	92%	2022-03-09 to 2025-02-05		Nonparametric	0.00470	0.00500	0.00110	0.00500	0.00108	0.230	-3.61
12_2_105	MW-16C	Appendix III	Boron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.403	0.400	0.390	0.430	0.0123	0.0305	0.988
12_2_107	MW-16C	Appendix III	Calcium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	71.7	73.0	62.1	77.2	5.20	0.0726	-0.854
12_2_108	MW-16C	Appendix III	Chloride	mg/l	12	6	50%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Nonparametric	3.99	5.00	1.10	8.00	1.99	0.499	0.303
12_2_112	MW-16C	Appendix III	Fluoride	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.734	1.00	0.200	1.00	0.341	0.465	-0.644
12_2_120	MW-16C	Appendix III	pH, Field	su	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	7.32	7.34	7.17	7.46	0.107	0.0147	-0.0882
12_2_124	MW-16C	Appendix III	Sulfate	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Nonparametric	Nonparametric	9.04	8.00	7.00	19.0	3.35	0.371	2.79
12_2_126	MW-16C	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Nonparametric	Nonparametric	341	332	320	418	27.8	0.0817	2.30
12_3_101	MW-16C	Appendix IV	Antimony	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00463	0.00500	0.000570	0.00500	0.00128	0.276	-3.46
12_3_102	MW-16C	Appendix IV	Arsenic	mg/l	12	9	75%	2023-02-02 to 2025-02-06		Nonparametric	0.00206	0.00200	0.000750	0.00300	0.000565	0.274	-0.371
12_3_103	MW-16C	Appendix IV	Barium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Gamma	0.0374	0.0325	0.0270	0.0610	0.0110	0.293	1.18
12_3_104	MW-16C	Appendix IV	Beryllium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000939	0.00100	0.000270	0.00100	0.000211	0.224	-3.46
12_3_106	MW-16C	Appendix IV	Cadmium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000465	0.000500	0.0000770	0.000500	0.000122	0.263	-3.46
12_3_109	MW-16C	Appendix IV	Chromium	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00518	0.00500	0.00120	0.0110	0.00213	0.411	1.50
12_3_110	MW-16C	Appendix IV	Cobalt	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00459	0.00500	0.0000860	0.00500	0.00142	0.309	-3.46

(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
12_3_113	MW-16C	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.734	1.00	0.200	1.00	0.341	0.465	-0.644
12_3_115	MW-16C	Appendix IV	Lead	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00279	0.00300	0.000450	0.00300	0.000736	0.264	-3.46
12_3_116	MW-16C	Appendix IV	Lithium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0277	0.0275	0.0260	0.0300	0.00150	0.0541	0.101
12_3_117	MW-16C	Appendix IV	Mercury	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000194	0.000200	0.000130	0.000200	0.0000202	0.104	-3.46
12_3_118	MW-16C	Appendix IV	Molybdenum	mg/l	12	10	83%	2023-02-02 to 2025-02-06		Nonparametric	0.00517	0.00500	0.00110	0.00900	0.00178	0.344	-0.110
12_3_121	MW-16C	Appendix IV	Radium-226+228	pci/l	12	1	8%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	1.45	1.28	0.225	3.60	1.04	0.717	0.700
12_3_122	MW-16C	Appendix IV	Selenium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00466	0.00500	0.000890	0.00500	0.00119	0.255	-3.46
12_3_125	MW-16C	Appendix IV	Thallium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00188	0.00200	0.000510	0.00200	0.000430	0.229	-3.46
12_5_111	MW-16C	Part 115	Copper	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00472	0.00500	0.00170	0.00500	0.000953	0.202	-3.46
12_5_114	MW-16C	Part 115	Iron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Lognormal	Lognormal	0.564	0.480	0.360	1.10	0.200	0.354	2.02
12_5_119	MW-16C	Part 115	Nickel	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00471	0.00500	0.00150	0.00500	0.00101	0.215	-3.46
12_5_123	MW-16C	Part 115	Silver	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000463	0.000500	0.0000530	0.000500	0.000129	0.279	-3.46
12_5_128	MW-16C	Part 115	Vanadium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00465	0.00500	0.000820	0.00500	0.00121	0.259	-3.46
12_5_129	MW-16C	Part 115	Zinc	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00466	0.00500	0.000930	0.00500	0.00117	0.252	-3.46
13_2_105	MW-16D	Appendix III	Boron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	4.62	4.63	4.30	5.01	0.206	0.0445	0.0732
13_2_107	MW-16D	Appendix III	Calcium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	29.4	29.3	28.5	30.5	0.635	0.0216	0.847
13_2_108	MW-16D	Appendix III	Chloride	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	7.20	7.10	6.00	8.00	0.625	0.0868	-0.226
13_2_112	MW-16D	Appendix III	Fluoride	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.793	1.00	0.360	1.00	0.272	0.343	-0.709
13_2_120	MW-16D	Appendix III	pH, Field	su	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	7.57	7.54	7.44	7.83	0.119	0.0157	1.03
13_2_124	MW-16D	Appendix III	Sulfate	mg/l	12	1	8%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	6.42	5.95	4.20	13.0	2.49	0.388	1.89
13_2_126	MW-16D	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	376	376	364	396	8.27	0.0220	1.00
13_3_101	MW-16D	Appendix IV	Antimony	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00463	0.00500	0.000570	0.00500	0.00128	0.276	-3.46
13_3_102	MW-16D	Appendix IV	Arsenic	mg/l	12	3	25%	2023-02-02 to 2025-02-06		Nonparametric	0.00302	0.00300	0.00200	0.00400	0.000825	0.273	0.0186
13_3_103	MW-16D	Appendix IV	Barium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0354	0.0355	0.0330	0.0380	0.00156	0.0442	-0.157
13_3_104	MW-16D	Appendix IV	Beryllium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000939	0.00100	0.000270	0.00100	0.000211	0.224	-3.46
13_3_106	MW-16D	Appendix IV	Cadmium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000465	0.000500	0.0000770	0.000500	0.000122	0.263	-3.46
13_3_109	MW-16D	Appendix IV	Chromium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00468	0.00500	0.00120	0.00500	0.00110	0.234	-3.46
13_3_110	MW-16D	Appendix IV	Cobalt	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00459	0.00500	0.0000860	0.00500	0.00142	0.309	-3.46
13_3_113	MW-16D	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.793	1.00	0.360	1.00	0.272	0.343	-0.709
13_3_115	MW-16D	Appendix IV	Lead	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00279	0.00300	0.000450	0.00300	0.000736	0.264	-3.46
13_3_116	MW-16D	Appendix IV	Lithium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0297	0.0300	0.0220	0.0390	0.00396	0.134	0.560
13_3_117	MW-16D	Appendix IV	Mercury	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000194	0.000200	0.000130	0.000200	0.0000202	0.104	-3.46
13_3_118	MW-16D	Appendix IV	Molybdenum	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Nonparametric	Nonparametric	0.0100	0.0100	0.00500	0.0120	0.00174	0.173	-2.46
13_3_121	MW-16D	Appendix IV	Radium-226+228	pci/l	12	1	8%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	1.77	1.42	0.515	4.14	1.15	0.647	0.867
13_3_122	MW-16D	Appendix IV	Selenium	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00474	0.00500	0.000890	0.00600	0.00125	0.263	-3.10
13_3_125	MW-16D	Appendix IV	Thallium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00188	0.00200	0.000510	0.00200	0.000430	0.229	-3.46
13_5_111	MW-16D	Part 115	Copper	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00514	0.00500	0.00170	0.0100	0.00180	0.350	1.38
13_5_114	MW-16D	Part 115	Iron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.309	0.310	0.0600	0.550	0.155	0.500	-0.242
13_5_119	MW-16D	Part 115	Nickel	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00471	0.00500	0.00150	0.00500	0.00101	0.215	-3.46
13_5_123	MW-16D	Part 115	Silver	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.000463	0.000500	0.0000530	0.000500	0.000129	0.279	-3.46
13_5_128	MW-16D	Part 115	Vanadium	mg/l	12	12	100%	2023-02-02 to 2025-02-06		Nonparametric	0.00465	0.00500	0.000820	0.00500	0.00121	0.259	-3.46
13_5_129	MW-16D	Part 115	Zinc	mg/l	12	1	8%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Gamma	0.0580	0.0185	0.00140	0.271	0.0862	1.49	1.86

(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
18_2_105	MW-100C	Appendix III	Boron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.79	1.81	1.54	1.91	0.111	0.0621	-1.38
18_2_107	MW-100C	Appendix III	Calcium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	58.7	59.2	55.2	61.2	2.17	0.0369	-0.576
18_2_108	MW-100C	Appendix III	Chloride	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal	Gamma	6.49	5.00	2.80	14.0	3.31	0.511	1.51
18_2_112	MW-100C	Appendix III	Fluoride	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.786	1.00	0.130	1.00	0.352	0.448	-1.19
18_2_120	MW-100C	Appendix III	pH, Field	su	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.36	7.33	7.23	7.54	0.0964	0.0131	0.682
18_2_124	MW-100C	Appendix III	Sulfate	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal	Gamma	9.60	6.50	4.20	27.0	6.94	0.723	2.07
18_2_126	MW-100C	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	299	301	280	314	10.9	0.0363	-0.858
18_3_101	MW-100C	Appendix IV	Antimony	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00456	0.00500	0.000570	0.00500	0.00140	0.307	-3.16
18_3_102	MW-100C	Appendix IV	Arsenic	mg/l	10	9	90%	2023-06-05 to 2025-02-05		Nonparametric	0.00187	0.00200	0.000750	0.00200	0.000395	0.211	-3.16
18_3_103	MW-100C	Appendix IV	Barium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0758	0.0780	0.0620	0.0920	0.00984	0.130	-0.124
18_3_104	MW-100C	Appendix IV	Beryllium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000927	0.00100	0.000270	0.00100	0.000231	0.249	-3.16
18_3_106	MW-100C	Appendix IV	Cadmium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000458	0.000500	0.0000770	0.000500	0.000134	0.292	-3.16
18_3_109	MW-100C	Appendix IV	Chromium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00462	0.00500	0.00120	0.00500	0.00120	0.260	-3.16
18_3_110	MW-100C	Appendix IV	Cobalt	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00451	0.00500	0.0000860	0.00500	0.00155	0.345	-3.16
18_3_113	MW-100C	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.786	1.00	0.130	1.00	0.352	0.448	-1.19
18_3_115	MW-100C	Appendix IV	Lead	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00274	0.00300	0.000450	0.00300	0.000806	0.294	-3.16
18_3_116	MW-100C	Appendix IV	Lithium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0320	0.0325	0.0280	0.0350	0.00216	0.0675	-0.744
18_3_117	MW-100C	Appendix IV	Mercury	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000193	0.000200	0.000130	0.000200	0.0000221	0.115	-3.16
18_3_118	MW-100C	Appendix IV	Molybdenum	mg/l	10	6	60%	2023-06-05 to 2025-02-05		Nonparametric	0.00561	0.00500	0.00110	0.00900	0.00230	0.409	-0.143
18_3_121	MW-100C	Appendix IV	Radium-226+228	pci/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.13	1.09	0.525	1.69	0.410	0.363	0.00709
18_3_122	MW-100C	Appendix IV	Selenium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00459	0.00500	0.000890	0.00500	0.00130	0.283	-3.16
18_3_125	MW-100C	Appendix IV	Thallium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00185	0.00200	0.000510	0.00200	0.000471	0.255	-3.16
18_5_111	MW-100C	Part 115	Copper	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00467	0.00500	0.00170	0.00500	0.00104	0.223	-3.16
18_5_114	MW-100C	Part 115	Iron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.683	0.650	0.310	1.00	0.198	0.290	0.0344
18_5_119	MW-100C	Part 115	Nickel	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00465	0.00500	0.00150	0.00500	0.00111	0.238	-3.16
18_5_123	MW-100C	Part 115	Silver	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000455	0.000500	0.0000530	0.000500	0.000141	0.310	-3.16
18_5_128	MW-100C	Part 115	Vanadium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00458	0.00500	0.000820	0.00500	0.00132	0.288	-3.16
18_5_129	MW-100C	Part 115	Zinc	mg/l	10	8	80%	2023-06-05 to 2025-02-05		Nonparametric	0.00514	0.00500	0.00140	0.0100	0.00205	0.399	1.01
19_2_105	MW-100D	Appendix III	Boron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Nonparametric	Nonparametric	3.06	3.23	1.89	3.45	0.478	0.156	-1.92
19_2_107	MW-100D	Appendix III	Calcium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Nonparametric	Nonparametric	14.2	6.72	5.26	56.5	16.0	1.13	2.45
19_2_108	MW-100D	Appendix III	Chloride	mg/l	10	4	40%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	6.18	5.00	4.20	13.1	2.81	0.455	2.07
19_2_112	MW-100D	Appendix III	Fluoride	mg/l	10	5	50%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Nonparametric	0.754	0.925	0.300	1.00	0.294	0.390	-0.533
19_2_120	MW-100D	Appendix III	pH, Field	su	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.75	7.78	7.21	8.22	0.309	0.0399	-0.288
19_2_124	MW-100D	Appendix III	Sulfate	mg/l	10	1	10%	2023-06-05 to 2025-02-05	Gamma; Lognormal	Gamma	18.9	10.5	5.00	60.5	17.6	0.927	1.75
19_2_126	MW-100D	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	420	394	366	584	64.8	0.154	2.12
19_3_101	MW-100D	Appendix IV	Antimony	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00456	0.00500	0.000570	0.00500	0.00140	0.307	-3.16
19_3_102	MW-100D	Appendix IV	Arsenic	mg/l	10	2	20%	2023-06-05 to 2025-02-05		Nonparametric	0.00266	0.00300	0.00160	0.00300	0.000558	0.210	-1.19
19_3_103	MW-100D	Appendix IV	Barium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0105	0.0100	0.00700	0.0190	0.00335	0.319	2.04
19_3_104	MW-100D	Appendix IV	Beryllium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000927	0.00100	0.000270	0.00100	0.000231	0.249	-3.16
19_3_106	MW-100D	Appendix IV	Cadmium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000458	0.000500	0.0000770	0.000500	0.000134	0.292	-3.16
19_3_109	MW-100D	Appendix IV	Chromium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00462	0.00500	0.00120	0.00500	0.00120	0.260	-3.16
19_3_110	MW-100D	Appendix IV	Cobalt	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00451	0.00500	0.0000860	0.00500	0.00155	0.345	-3.16

(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_3_113	MW-100D	Appendix IV	Fluoride (App IV)	mg/l	10	5	50%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Nonparametric	0.754	0.925	0.300	1.00	0.294	0.390	-0.533
19_3_115	MW-100D	Appendix IV	Lead	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00274	0.00300	0.000450	0.00300	0.000806	0.294	-3.16
19_3_116	MW-100D	Appendix IV	Lithium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Nonparametric	Nonparametric	0.0187	0.0175	0.0160	0.0310	0.00450	0.241	2.74
19_3_117	MW-100D	Appendix IV	Mercury	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000193	0.000200	0.000130	0.000200	0.0000221	0.115	-3.16
19_3_118	MW-100D	Appendix IV	Molybdenum	mg/l	10	1	10%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.00816	0.00800	0.00500	0.0120	0.00215	0.263	0.255
19_3_121	MW-100D	Appendix IV	Radium-226+228	pci/l	10	1	10%	2023-06-05 to 2025-02-05	Gamma; Lognormal	Gamma	1.38	0.952	0.477	5.06	1.35	0.982	2.67
19_3_122	MW-100D	Appendix IV	Selenium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00459	0.00500	0.000890	0.00500	0.00130	0.283	-3.16
19_3_125	MW-100D	Appendix IV	Thallium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00185	0.00200	0.000510	0.00200	0.000471	0.255	-3.16
19_5_111	MW-100D	Part 115	Copper	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00467	0.00500	0.00170	0.00500	0.00104	0.223	-3.16
19_5_114	MW-100D	Part 115	Iron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.330	0.270	0.120	0.770	0.230	0.697	0.955
19_5_119	MW-100D	Part 115	Nickel	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00465	0.00500	0.00150	0.00500	0.00111	0.238	-3.16
19_5_123	MW-100D	Part 115	Silver	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.000455	0.000500	0.0000530	0.000500	0.000141	0.310	-3.16
19_5_128	MW-100D	Part 115	Vanadium	mg/l	10	10	100%	2023-06-05 to 2025-02-05		Nonparametric	0.00458	0.00500	0.000820	0.00500	0.00132	0.288	-3.16
19_5_129	MW-100D	Part 115	Zinc	mg/l	10	9	90%	2023-06-05 to 2025-02-05		Nonparametric	0.00470	0.00500	0.00200	0.00500	0.000949	0.202	-3.16

^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_105	MW-7B	Appendix III	Boron	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	2.98	2.98	2.80	3.17	0.0940	0.0315	0.107
11_2_107	MW-7B	Appendix III	Calcium	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	9.00	9.14	7.60	10.2	0.633	0.0704	-0.482
11_2_108	MW-7B	Appendix III	Chloride	mg/l	13	10	77%	2022-03-09 to 2025-02-05		Nonparametric	1.54	1.90	0.820	1.90	0.624	0.405	-1.73
11_2_112	MW-7B	Appendix III	Fluoride	mg/l	13	10	77%	2022-03-09 to 2025-02-05		Nonparametric	0.547	0.600	0.300	0.740	0.225	0.411	-1.01
11_2_120	MW-7B	Appendix III	pH, Field	su	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.97	8.00	7.73	8.17	0.148	0.0186	-0.0914
11_2_124	MW-7B	Appendix III	Sulfate	mg/l	13	10	77%	2022-03-09 to 2025-02-05		Nonparametric	1.60	1.30	1.10	2.40	0.700	0.438	1.57
11_2_126	MW-7B	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	364	362	350	376	7.89	0.0217	0.0771
11_3_102	MW-7B	Appendix IV	Arsenic	mg/l	13	11	85%	2022-03-09 to 2025-02-05		Nonparametric	0.00300	0.00300	0.00300	0.00300	0	0	NA
11_3_103	MW-7B	Appendix IV	Barium	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.00896	0.00900	0.00750	0.0110	0.00105	0.117	0.438
11_3_113	MW-7B	Appendix IV	Fluoride (App IV)	mg/l	13	10	77%	2022-03-09 to 2025-02-05		Nonparametric	0.547	0.600	0.300	0.740	0.225	0.411	-1.01
11_3_115	MW-7B	Appendix IV	Lead	mg/l	13	12	92%	2022-03-09 to 2025-02-05		Nonparametric	0.0120	0.0120	0.0120	0.0120	NA	NA	NA
11_3_116	MW-7B	Appendix IV	Lithium	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Nonparametric	Nonparametric	0.0316	0.0320	0.0280	0.0340	0.00139	0.0439	-1.17
11_3_121	MW-7B	Appendix IV	Radium-226+228	pci/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.29	1.31	0.378	2.73	0.745	0.575	0.568
11_5_114	MW-7B	Part 115	Iron	mg/l	13	0	0%	2022-03-09 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0665	0.0600	0.0300	0.120	0.0273	0.411	0.377
11_5_129	MW-7B	Part 115	Zinc	mg/l	13	12	92%	2022-03-09 to 2025-02-05		Nonparametric	0.00110	0.00110	0.00110	0.00110	NA	NA	NA
12_2_105	MW-16C	Appendix III	Boron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.403	0.400	0.390	0.430	0.0123	0.0305	0.988
12_2_107	MW-16C	Appendix III	Calcium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	71.7	73.0	62.1	77.2	5.20	0.0726	-0.854
12_2_108	MW-16C	Appendix III	Chloride	mg/l	12	6	50%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Nonparametric	2.98	2.25	1.10	8.00	2.51	0.840	2.23
12_2_112	MW-16C	Appendix III	Fluoride	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.328	0.300	0.200	0.510	0.154	0.470	0.423
12_2_120	MW-16C	Appendix III	pH, Field	su	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	7.32	7.34	7.17	7.46	0.107	0.0147	-0.0882
12_2_124	MW-16C	Appendix III	Sulfate	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Nonparametric	Nonparametric	9.04	8.00	7.00	19.0	3.35	0.371	2.79
12_2_126	MW-16C	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Nonparametric	Nonparametric	341	332	320	418	27.8	0.0817	2.30
12_3_102	MW-16C	Appendix IV	Arsenic	mg/l	12	9	75%	2023-02-02 to 2025-02-06		Nonparametric	0.00267	0.00300	0.00200	0.00300	0.000577	0.217	-1.73
12_3_103	MW-16C	Appendix IV	Barium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Gamma	0.0374	0.0325	0.0270	0.0610	0.0110	0.293	1.18
12_3_109	MW-16C	Appendix IV	Chromium	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.0110	0.0110	0.0110	0.0110	NA	NA	NA
12_3_113	MW-16C	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.328	0.300	0.200	0.510	0.154	0.470	0.423
12_3_116	MW-16C	Appendix IV	Lithium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0277	0.0275	0.0260	0.0300	0.00150	0.0541	0.101
12_3_118	MW-16C	Appendix IV	Molybdenum	mg/l	12	10	83%	2023-02-02 to 2025-02-06		Nonparametric	0.00800	0.00800	0.00700	0.00900	0.00141	0.177	NA
12_3_121	MW-16C	Appendix IV	Radium-226+228	pci/l	12	1	8%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	1.51	1.30	0.225	3.60	1.07	0.712	0.549
12_5_114	MW-16C	Part 115	Iron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Lognormal	Lognormal	0.564	0.480	0.360	1.10	0.200	0.354	2.02
13_2_105	MW-16D	Appendix III	Boron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	4.62	4.63	4.30	5.01	0.206	0.0445	0.0732
13_2_107	MW-16D	Appendix III	Calcium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	29.4	29.3	28.5	30.5	0.635	0.0216	0.847
13_2_108	MW-16D	Appendix III	Chloride	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	7.20	7.10	6.00	8.00	0.625	0.0868	-0.226
13_2_112	MW-16D	Appendix III	Fluoride	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.505	0.450	0.360	0.760	0.180	0.356	1.42
13_2_120	MW-16D	Appendix III	pH, Field	su	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	7.57	7.54	7.44	7.83	0.119	0.0157	1.03
13_2_124	MW-16D	Appendix III	Sulfate	mg/l	12	1	8%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	6.55	6.00	4.20	13.0	2.57	0.393	1.76
13_2_126	MW-16D	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	376	376	364	396	8.27	0.0220	1.00
13_3_102	MW-16D	Appendix IV	Arsenic	mg/l	12	3	25%	2023-02-02 to 2025-02-06		Nonparametric	0.00337	0.00300	0.00230	0.00400	0.000640	0.190	-0.242
13_3_103	MW-16D	Appendix IV	Barium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0354	0.0355	0.0330	0.0380	0.00156	0.0442	-0.157
13_3_113	MW-16D	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	2023-02-02 to 2025-02-06		Nonparametric	0.505	0.450	0.360	0.760	0.180	0.356	1.42
13_3_116	MW-16D	Appendix IV	Lithium	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.0297	0.0300	0.0220	0.0390	0.00396	0.134	0.560
13_3_118	MW-16D	Appendix IV	Molybdenum	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Nonparametric	Nonparametric	0.0100	0.0100	0.00500	0.0120	0.00174	0.173	-2.46
13_3_121	MW-16D	Appendix IV	Radium-226+228	pci/l	12	1	8%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	1.88	1.52	0.515	4.14	1.14	0.607	0.776

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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
13_3_122	MW-16D	Appendix IV	Selenium	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.00600	0.00600	0.00600	0.00600	NA	NA	NA
13_5_111	MW-16D	Part 115	Copper	mg/l	12	11	92%	2023-02-02 to 2025-02-06		Nonparametric	0.0100	0.0100	0.0100	0.0100	NA	NA	NA
13_5_114	MW-16D	Part 115	Iron	mg/l	12	0	0%	2023-02-02 to 2025-02-06	Gamma; Lognormal; Normal	Normal	0.309	0.310	0.0600	0.550	0.155	0.500	-0.242
13_5_129	MW-16D	Part 115	Zinc	mg/l	12	1	8%	2023-02-02 to 2025-02-06	Gamma; Lognormal	Gamma	0.0628	0.0230	0.00140	0.271	0.0887	1.41	1.74
18_2_105	MW-100C	Appendix III	Boron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.79	1.81	1.54	1.91	0.111	0.0621	-1.38
18_2_107	MW-100C	Appendix III	Calcium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	58.7	59.2	55.2	61.2	2.17	0.0369	-0.576
18_2_108	MW-100C	Appendix III	Chloride	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal	Gamma	6.49	5.00	2.80	14.0	3.31	0.511	1.51
18_2_112	MW-100C	Appendix III	Fluoride	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.287	0.300	0.130	0.430	0.150	0.525	-0.396
18_2_120	MW-100C	Appendix III	pH, Field	su	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.36	7.33	7.23	7.54	0.0964	0.0131	0.682
18_2_124	MW-100C	Appendix III	Sulfate	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal	Gamma	9.60	6.50	4.20	27.0	6.94	0.723	2.07
18_2_126	MW-100C	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	299	301	280	314	10.9	0.0363	-0.858
18_3_102	MW-100C	Appendix IV	Arsenic	mg/l	10	9	90%	2023-06-05 to 2025-02-05		Nonparametric	0.00200	0.00200	0.00200	0.00200	NA	NA	NA
18_3_103	MW-100C	Appendix IV	Barium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0758	0.0780	0.0620	0.0920	0.00984	0.130	-0.124
18_3_113	MW-100C	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	2023-06-05 to 2025-02-05		Nonparametric	0.287	0.300	0.130	0.430	0.150	0.525	-0.396
18_3_116	MW-100C	Appendix IV	Lithium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0320	0.0325	0.0280	0.0350	0.00216	0.0675	-0.744
18_3_118	MW-100C	Appendix IV	Molybdenum	mg/l	10	6	60%	2023-06-05 to 2025-02-05		Nonparametric	0.00653	0.00800	0.00110	0.00900	0.00374	0.573	-1.65
18_3_121	MW-100C	Appendix IV	Radium-226+228	pci/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	1.13	1.09	0.525	1.69	0.410	0.363	0.00709
18_5_114	MW-100C	Part 115	Iron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.683	0.650	0.310	1.00	0.198	0.290	0.0344
18_5_129	MW-100C	Part 115	Zinc	mg/l	10	8	80%	2023-06-05 to 2025-02-05		Nonparametric	0.00570	0.00570	0.00140	0.0100	0.00608	1.07	NA
19_2_105	MW-100D	Appendix III	Boron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Nonparametric	Nonparametric	3.06	3.23	1.89	3.45	0.478	0.156	-1.92
19_2_107	MW-100D	Appendix III	Calcium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Nonparametric	Nonparametric	14.2	6.72	5.26	56.5	16.0	1.13	2.45
19_2_108	MW-100D	Appendix III	Chloride	mg/l	10	4	40%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	6.97	5.60	4.20	13.1	3.52	0.505	1.31
19_2_112	MW-100D	Appendix III	Fluoride	mg/l	10	5	50%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Nonparametric	0.508	0.490	0.300	0.850	0.208	0.409	1.39
19_2_120	MW-100D	Appendix III	pH, Field	su	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	7.75	7.78	7.21	8.22	0.309	0.0399	-0.288
19_2_124	MW-100D	Appendix III	Sulfate	mg/l	10	1	10%	2023-06-05 to 2025-02-05	Gamma; Lognormal	Gamma	20.5	11.0	6.00	60.5	17.9	0.873	1.66
19_2_126	MW-100D	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	420	394	366	584	64.8	0.154	2.12
19_3_102	MW-100D	Appendix IV	Arsenic	mg/l	10	2	20%	2023-06-05 to 2025-02-05		Nonparametric	0.00282	0.00300	0.00160	0.00300	0.000495	0.175	-2.83
19_3_103	MW-100D	Appendix IV	Barium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.0105	0.0100	0.00700	0.0190	0.00335	0.319	2.04
19_3_113	MW-100D	Appendix IV	Fluoride (App IV)	mg/l	10	5	50%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Nonparametric	0.508	0.490	0.300	0.850	0.208	0.409	1.39
19_3_116	MW-100D	Appendix IV	Lithium	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Nonparametric	Nonparametric	0.0187	0.0175	0.0160	0.0310	0.00450	0.241	2.74
19_3_118	MW-100D	Appendix IV	Molybdenum	mg/l	10	1	10%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.00851	0.00800	0.00560	0.0120	0.00195	0.229	0.376
19_3_121	MW-100D	Appendix IV	Radium-226+228	pci/l	10	1	10%	2023-06-05 to 2025-02-05	Gamma; Lognormal	Gamma	1.47	1.01	0.477	5.06	1.41	0.959	2.55
19_5_114	MW-100D	Part 115	Iron	mg/l	10	0	0%	2023-06-05 to 2025-02-05	Gamma; Lognormal; Normal	Normal	0.330	0.270	0.120	0.770	0.230	0.697	0.955
19_5_129	MW-100D	Part 115	Zinc	mg/l	10	9	90%	2023-06-05 to 2025-02-05		Nonparametric	0.00200	0.00200	0.00200	0.00200	NA	NA	NA

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_105	MW-7B	Appendix III	Boron	mg/l	13	0	0%	0.984	0.994	0.116	0.904	0.985	0.995	0.116	0.900	0.107	>= 0.10	0.165	>= 0.10	0.032	Gamma; Lognormal; Normal	Normal
11_2_107	MW-7B	Appendix III	Calcium	mg/l	13	0	0%	0.951	0.615	0.179	0.303	0.938	0.428	0.192	0.210	0.179	>= 0.10	0.411	>= 0.10	0.072	Gamma; Lognormal; Normal	Normal
11_2_108	MW-7B	Appendix III	Chloride	mg/l	13	10	77%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.485		Nonparametric
11_2_112	MW-7B	Appendix III	Fluoride	mg/l	13	10	77%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.473		Nonparametric
11_2_120	MW-7B	Appendix III	pH, Field	su	13	0	0%	0.933	0.370	0.151	0.580	0.933	0.370	0.153	0.558	0.159	>= 0.10	0.405	>= 0.10	0.019	Gamma; Lognormal; Normal	Normal
11_2_124	MW-7B	Appendix III	Sulfate	mg/l	13	10	77%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.411		Nonparametric
11_2_126	MW-7B	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	0.961	0.766	0.131	0.785	0.962	0.780	0.127	0.817	0.132	>= 0.10	0.244	>= 0.10	0.022	Gamma; Lognormal; Normal	Normal
11_3_101	MW-7B	Appendix IV	Antimony	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_102	MW-7B	Appendix IV	Arsenic	mg/l	13	11	85%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.000		Nonparametric
11_3_103	MW-7B	Appendix IV	Barium	mg/l	13	0	0%	0.912	0.197	0.205	0.143	0.918	0.236	0.208	0.131	0.216	>= 0.10	0.595	>= 0.10	0.116	Gamma; Lognormal; Normal	Normal
11_3_104	MW-7B	Appendix IV	Beryllium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_106	MW-7B	Appendix IV	Cadmium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_109	MW-7B	Appendix IV	Chromium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_110	MW-7B	Appendix IV	Cobalt	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_113	MW-7B	Appendix IV	Fluoride (App IV)	mg/l	13	10	77%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.473		Nonparametric
11_3_115	MW-7B	Appendix IV	Lead	mg/l	13	12	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_116	MW-7B	Appendix IV	Lithium	mg/l	13	0	0%	0.840	0.021	0.252	0.024	0.823	0.013	0.262	0.015	0.249	0.01 <= p < 0.05	1.010	< 0.01	0.045	Nonparametric	Nonparametric
11_3_117	MW-7B	Appendix IV	Mercury	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_118	MW-7B	Appendix IV	Molybdenum	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_121	MW-7B	Appendix IV	Radium-226+228	pci/l	13	0	0%	0.940	0.456	0.118	0.888	0.944	0.504	0.152	0.563	0.123	>= 0.10	0.239	>= 0.10	0.648	Gamma; Lognormal; Normal	Normal
11_3_122	MW-7B	Appendix IV	Selenium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_3_125	MW-7B	Appendix IV	Thallium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_5_111	MW-7B	Part 115	Copper	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_5_114	MW-7B	Part 115	Iron	mg/l	13	0	0%	0.955	0.681	0.133	0.765	0.949	0.587	0.118	0.889	0.128	>= 0.10	0.244	>= 0.10	0.439	Gamma; Lognormal; Normal	Normal
11_5_119	MW-7B	Part 115	Nickel	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_5_123	MW-7B	Part 115	Silver	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_5_128	MW-7B	Part 115	Vanadium	mg/l	13	13	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_5_129	MW-7B	Part 115	Zinc	mg/l	13	12	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_105	MW-16C	Appendix III	Boron	mg/l	12	0	0%	0.873	0.072	0.273	0.014	0.878	0.083	0.270	0.016	0.275	0.01 <= p < 0.05	0.673	0.05 <= p < 0.10	0.030	Gamma; Lognormal; Normal	Normal
12_2_107	MW-16C	Appendix III	Calcium	mg/l	12	0	0%	0.887	0.107	0.169	0.448	0.875	0.075	0.183	0.328	0.179	>= 0.10	0.619	0.05 <= p < 0.10	0.075	Gamma; Lognormal; Normal	Normal
12_2_108	MW-16C	Appendix III	Chloride	mg/l	12	6	50%	0.686	0.004	0.410	0.002	0.875	0.246	0.313	0.067	0.357	0.01 <= p < 0.05	0.676	0.05 <= p < 0.10	0.656	Gamma; Lognormal	Nonparametric
12_2_112	MW-16C	Appendix III	Fluoride	mg/l	12	8	67%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.481		Nonparametric
12_2_120	MW-16C	Appendix III	pH, Field	su	12	0	0%	0.914	0.241	0.169	0.445	0.914	0.240	0.168	0.456	0.178	>= 0.10	0.421	>= 0.10	0.015	Gamma; Lognormal; Normal	Normal
12_2_124	MW-16C	Appendix III	Sulfate	mg/l	12	0	0%	0.602	0.000	0.372	0.000	0.704	0.001	0.360	0.000	0.372	< 0.01	1.605	< 0.01	0.281	Nonparametric	Nonparametric
12_2_126	MW-16C	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	0.709	0.001	0.288	0.007	0.736	0.002	0.271	0.015	0.276	0.01 <= p < 0.05	1.285	< 0.01	0.076	Nonparametric	Nonparametric
12_3_101	MW-16C	Appendix IV	Antimony	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_3_102	MW-16C	Appendix IV	Arsenic	mg/l	12	9	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.234		Nonparametric
12_3_103	MW-16C	Appendix IV	Barium	mg/l	12	0	0%	0.838	0.026	0.254	0.031	0.881	0.090	0.216	0.127	0.232	0.05 <= p < 0.10	0.747	0.01 <= p < 0.05	0.268	Gamma; Lognormal	Gamma
12_3_104	MW-16C	Appendix IV	Beryllium	mg/l	12	12	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
12_3_106	MW-16C	Appendix IV	Cadmium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_109	MW-16C	Appendix IV	Chromium	mg/l	12	11	92%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_110	MW-16C	Appendix IV	Cobalt	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_113	MW-16C	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.481	Nonparametric		
12_3_115	MW-16C	Appendix IV	Lead	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_116	MW-16C	Appendix IV	Lithium	mg/l	12	0	0%	0.851	0.038	0.230	0.079	0.850	0.036	0.231	0.076	0.241	0.05 <= p < 0.10	0.845	0.01 <= p < 0.05	0.054	Gamma; Lognormal; Normal	Normal
12_3_117	MW-16C	Appendix IV	Mercury	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_118	MW-16C	Appendix IV	Molybdenum	mg/l	12	10	83%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.178	Nonparametric		
12_3_121	MW-16C	Appendix IV	Radium-226+228	pci/l	12	1	8%	0.939	0.514	0.122	0.917	0.909	0.236	0.198	0.268	0.156	>= 0.10	0.308	>= 0.10	0.945	Gamma; Lognormal; Normal	Normal
12_3_122	MW-16C	Appendix IV	Selenium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_3_125	MW-16C	Appendix IV	Thallium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_5_111	MW-16C	Part 115	Copper	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_5_114	MW-16C	Part 115	Iron	mg/l	12	0	0%	0.769	0.004	0.274	0.013	0.871	0.067	0.241	0.053	0.258	0.01 <= p < 0.05	0.871	0.01 <= p < 0.05	0.298	Lognormal	Lognormal
12_5_119	MW-16C	Part 115	Nickel	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_5_123	MW-16C	Part 115	Silver	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_5_128	MW-16C	Part 115	Vanadium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
12_5_129	MW-16C	Part 115	Zinc	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_2_105	MW-16D	Appendix III	Boron	mg/l	12	0	0%	0.943	0.535	0.195	0.235	0.942	0.522	0.203	0.187	0.198	>= 0.10	0.403	>= 0.10	0.045	Gamma; Lognormal; Normal	Normal
13_2_107	MW-16D	Appendix III	Calcium	mg/l	12	0	0%	0.880	0.088	0.240	0.056	0.885	0.101	0.236	0.065	0.236	0.05 <= p < 0.10	0.687	0.05 <= p < 0.10	0.021	Gamma; Lognormal; Normal	Normal
13_2_108	MW-16D	Appendix III	Chloride	mg/l	12	0	0%	0.932	0.397	0.151	0.632	0.930	0.378	0.143	0.714	0.157	>= 0.10	0.374	>= 0.10	0.088	Gamma; Lognormal; Normal	Normal
13_2_112	MW-16D	Appendix III	Fluoride	mg/l	12	8	67%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.331	Nonparametric		
13_2_120	MW-16D	Appendix III	pH, Field	su	12	0	0%	0.913	0.234	0.159	0.553	0.916	0.257	0.155	0.586	0.153	>= 0.10	0.405	>= 0.10	0.016	Gamma; Lognormal; Normal	Normal
13_2_124	MW-16D	Appendix III	Sulfate	mg/l	12	1	8%	0.820	0.017	0.249	0.055	0.917	0.291	0.176	0.440	0.196	>= 0.10	0.465	>= 0.10	0.340	Gamma; Lognormal; Normal	Normal
13_2_126	MW-16D	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	0.910	0.214	0.231	0.077	0.916	0.258	0.227	0.089	0.222	>= 0.10	0.418	>= 0.10	0.022	Gamma; Lognormal; Normal	Normal
13_3_101	MW-16D	Appendix IV	Antimony	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_102	MW-16D	Appendix IV	Arsenic	mg/l	12	3	25%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.198	Nonparametric		
13_3_103	MW-16D	Appendix IV	Barium	mg/l	12	0	0%	0.948	0.615	0.145	0.689	0.945	0.568	0.153	0.615	0.156	>= 0.10	0.329	>= 0.10	0.044	Gamma; Lognormal; Normal	Normal
13_3_104	MW-16D	Appendix IV	Beryllium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_106	MW-16D	Appendix IV	Cadmium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_109	MW-16D	Appendix IV	Chromium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_110	MW-16D	Appendix IV	Cobalt	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_113	MW-16D	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.331	Nonparametric		
13_3_115	MW-16D	Appendix IV	Lead	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_116	MW-16D	Appendix IV	Lithium	mg/l	12	0	0%	0.880	0.086	0.216	0.125	0.889	0.116	0.224	0.098	0.218	>= 0.10	0.755	0.01 <= p < 0.05	0.133	Gamma; Lognormal; Normal	Normal
13_3_117	MW-16D	Appendix IV	Mercury	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_118	MW-16D	Appendix IV	Molybdenum	mg/l	12	0	0%	0.691	0.001	0.322	0.001	0.593	0.000	0.369	0.000	0.350	< 0.01	1.835	< 0.01	0.223	Nonparametric	Nonparametric
13_3_121	MW-16D	Appendix IV	Radium-226+228	pci/l	12	1	8%	0.931	0.417	0.169	0.515	0.974	0.920	0.115	0.950	0.125	>= 0.10	0.189	>= 0.10	0.648	Gamma; Lognormal; Normal	Normal
13_3_122	MW-16D	Appendix IV	Selenium	mg/l	12	11	92%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		
13_3_125	MW-16D	Appendix IV	Thallium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	Nonparametric		

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Normal		Lognormal				Gamma				Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution		
								S-W		Lilliefors		S-W		Lilliefors		K-S					A-D	
								Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value				Stat.	p-Value
13_5_111	MW-16D	Part 115	Copper	mg/l	12	11	92%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
13_5_114	MW-16D	Part 115	Iron	mg/l	12	0	0%	0.965	0.858	0.101	0.982	0.860	0.049	0.229	0.081	0.187	>= 0.10	0.502	>= 0.10	0.702	Gamma; Lognormal; Normal	Normal
13_5_119	MW-16D	Part 115	Nickel	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
13_5_123	MW-16D	Part 115	Silver	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
13_5_128	MW-16D	Part 115	Vanadium	mg/l	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
13_5_129	MW-16D	Part 115	Zinc	mg/l	12	1	8%	0.711	0.001	0.346	0.001	0.961	0.780	0.147	0.726	0.216	>= 0.10	0.527	>= 0.10	1.545	Gamma; Lognormal	Gamma
18_2_105	MW-100C	Appendix III	Boron	mg/l	10	0	0%	0.883	0.142	0.196	0.336	0.864	0.084	0.208	0.255	0.204	>= 0.10	0.541	>= 0.10	0.065	Gamma; Lognormal; Normal	Normal
18_2_107	MW-100C	Appendix III	Calcium	mg/l	10	0	0%	0.899	0.216	0.202	0.295	0.895	0.194	0.208	0.251	0.207	>= 0.10	0.509	>= 0.10	0.037	Gamma; Lognormal; Normal	Normal
18_2_108	MW-100C	Appendix III	Chloride	mg/l	10	0	0%	0.829	0.033	0.272	0.034	0.925	0.404	0.236	0.118	0.261	0.05 <= p < 0.10	0.593	>= 0.10	0.458	Gamma; Lognormal	Gamma
18_2_112	MW-100C	Appendix III	Fluoride	mg/l	10	7	70%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.614		Nonparametric	
18_2_120	MW-100C	Appendix III	pH, Field	su	10	0	0%	0.953	0.699	0.170	0.568	0.954	0.721	0.168	0.587	0.172	>= 0.10	0.273	>= 0.10	0.013	Gamma; Lognormal; Normal	Normal
18_2_124	MW-100C	Appendix III	Sulfate	mg/l	10	0	0%	0.732	0.002	0.291	0.016	0.882	0.138	0.209	0.250	0.247	>= 0.10	0.758	0.01 <= p < 0.05	0.570	Gamma; Lognormal	Gamma
18_2_126	MW-100C	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	0.889	0.164	0.249	0.080	0.881	0.132	0.256	0.063	0.250	0.05 <= p < 0.10	0.620	0.05 <= p < 0.10	0.037	Gamma; Lognormal; Normal	Normal
18_3_101	MW-100C	Appendix IV	Antimony	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_3_102	MW-100C	Appendix IV	Arsenic	mg/l	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_3_103	MW-100C	Appendix IV	Barium	mg/l	10	0	0%	0.922	0.376	0.201	0.299	0.913	0.302	0.212	0.226	0.221	>= 0.10	0.468	>= 0.10	0.132	Gamma; Lognormal; Normal	Normal
18_3_104	MW-100C	Appendix IV	Beryllium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_3_106	MW-100C	Appendix IV	Cadmium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_3_109	MW-100C	Appendix IV	Chromium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_3_110	MW-100C	Appendix IV	Cobalt	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_3_113	MW-100C	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.614		Nonparametric	
18_3_115	MW-100C	Appendix IV	Lead	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_3_116	MW-100C	Appendix IV	Lithium	mg/l	10	0	0%	0.931	0.456	0.200	0.309	0.918	0.341	0.212	0.228	0.209	>= 0.10	0.449	>= 0.10	0.069	Gamma; Lognormal; Normal	Normal
18_3_117	MW-100C	Appendix IV	Mercury	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_3_118	MW-100C	Appendix IV	Molybdenum	mg/l	10	6	60%	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.016		Nonparametric	
18_3_121	MW-100C	Appendix IV	Radium-226+228	pci/l	10	0	0%	0.935	0.503	0.153	0.730	0.934	0.493	0.150	0.758	0.156	>= 0.10	0.314	>= 0.10	0.395	Gamma; Lognormal; Normal	Normal
18_3_122	MW-100C	Appendix IV	Selenium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_3_125	MW-100C	Appendix IV	Thallium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_5_111	MW-100C	Part 115	Copper	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_5_114	MW-100C	Part 115	Iron	mg/l	10	0	0%	0.918	0.340	0.201	0.299	0.872	0.104	0.255	0.064	0.227	>= 0.10	0.513	>= 0.10	0.324	Gamma; Lognormal; Normal	Normal
18_5_119	MW-100C	Part 115	Nickel	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_5_123	MW-100C	Part 115	Silver	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_5_128	MW-100C	Part 115	Vanadium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric	
18_5_129	MW-100C	Part 115	Zinc	mg/l	10	8	80%	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.390		Nonparametric	
19_2_105	MW-100D	Appendix III	Boron	mg/l	10	0	0%	0.766	0.006	0.305	0.009	0.711	0.001	0.316	0.005	0.319	< 0.01	1.126	< 0.01	0.183	Nonparametric	Nonparametric
19_2_107	MW-100D	Appendix III	Calcium	mg/l	10	0	0%	0.617	0.000	0.355	0.001	0.771	0.006	0.319	0.005	0.353	< 0.01	1.276	< 0.01	0.796	Nonparametric	Nonparametric
19_2_108	MW-100D	Appendix III	Chloride	mg/l	10	4	40%	0.838	0.125	0.253	0.267	0.889	0.311	0.198	0.651	0.223	>= 0.10	0.431	>= 0.10	0.459	Gamma; Lognormal; Normal	Normal
19_2_112	MW-100D	Appendix III	Fluoride	mg/l	10	5	50%	0.881	0.316	0.315	0.104	0.955	0.774	0.253	0.362	0.272	>= 0.10	0.319	>= 0.10	0.382	Gamma; Lognormal; Normal	Nonparametric
19_2_120	MW-100D	Appendix III	pH, Field	su	10	0	0%	0.982	0.977	0.100	0.996	0.980	0.963	0.098	0.997	0.111	>= 0.10	0.165	>= 0.10	0.040	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
19_2_124	MW-100D	Appendix III	Sulfate	mg/l	10	1	10%	0.769	0.009	0.308	0.014	0.899	0.244	0.230	0.187	0.266	0.05 <= p < 0.10	0.680	0.05 <= p < 0.10	0.759	Gamma; Lognormal	Gamma
19_2_126	MW-100D	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	0.753	0.004	0.244	0.093	0.802	0.015	0.239	0.108	0.236	>= 0.10	0.871	0.01 <= p < 0.05	0.139	Gamma; Lognormal; Normal	Normal
19_3_101	MW-100D	Appendix IV	Antimony	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_3_102	MW-100D	Appendix IV	Arsenic	mg/l	10	2	20%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.222		Nonparametric
19_3_103	MW-100D	Appendix IV	Barium	mg/l	10	0	0%	0.781	0.008	0.257	0.060	0.887	0.157	0.214	0.217	0.232	>= 0.10	0.641	0.05 <= p < 0.10	0.275	Gamma; Lognormal; Normal	Normal
19_3_104	MW-100D	Appendix IV	Beryllium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_3_106	MW-100D	Appendix IV	Cadmium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_3_109	MW-100D	Appendix IV	Chromium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_3_110	MW-100D	Appendix IV	Cobalt	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_3_113	MW-100D	Appendix IV	Fluoride (App IV)	mg/l	10	5	50%	0.881	0.316	0.315	0.104	0.955	0.774	0.253	0.362	0.272	>= 0.10	0.319	>= 0.10	0.382	Gamma; Lognormal; Normal	Nonparametric
19_3_115	MW-100D	Appendix IV	Lead	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_3_116	MW-100D	Appendix IV	Lithium	mg/l	10	0	0%	0.607	0.000	0.362	0.001	0.676	0.000	0.337	0.002	0.349	< 0.01	1.424	< 0.01	0.198	Nonparametric	Nonparametric
19_3_117	MW-100D	Appendix IV	Mercury	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_3_118	MW-100D	Appendix IV	Molybdenum	mg/l	10	1	10%	0.970	0.891	0.159	0.737	0.977	0.946	0.122	0.964	0.139	>= 0.10	0.206	>= 0.10	0.231	Gamma; Lognormal; Normal	Normal
19_3_121	MW-100D	Appendix IV	Radium-226+228	pci/l	10	1	10%	0.658	0.000	0.351	0.002	0.916	0.359	0.198	0.389	0.248	>= 0.10	0.604	>= 0.10	0.707	Gamma; Lognormal	Gamma
19_3_122	MW-100D	Appendix IV	Selenium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_3_125	MW-100D	Appendix IV	Thallium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_5_111	MW-100D	Part 115	Copper	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_5_114	MW-100D	Part 115	Iron	mg/l	10	0	0%	0.869	0.097	0.183	0.447	0.907	0.263	0.191	0.378	0.205	>= 0.10	0.409	>= 0.10	0.702	Gamma; Lognormal; Normal	Normal
19_5_119	MW-100D	Part 115	Nickel	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_5_123	MW-100D	Part 115	Silver	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_5_128	MW-100D	Part 115	Vanadium	mg/l	10	10	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_5_129	MW-100D	Part 115	Zinc	mg/l	10	9	90%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		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_105	MW-7B	Appendix III	Boron	mg/l	13	0	0%	-0.146	0.556	
11_2_107	MW-7B	Appendix III	Calcium	mg/l	13	0	0%	0.017	0.944	
11_2_108	MW-7B	Appendix III	Chloride	mg/l	13	10	77%	-0.167	0.648	
11_2_112	MW-7B	Appendix III	Fluoride	mg/l	13	10	77%	-0.028	0.939	
11_2_120	MW-7B	Appendix III	pH, Field	su	13	0	0%	0.093	0.708	
11_2_124	MW-7B	Appendix III	Sulfate	mg/l	13	10	77%	-0.255	0.485	
11_2_126	MW-7B	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	-0.265	0.285	
11_3_102	MW-7B	Appendix IV	Arsenic	mg/l	13	11	85%	NA	NA	
11_3_103	MW-7B	Appendix IV	Barium	mg/l	13	0	0%	0.491	0.048	*
11_3_113	MW-7B	Appendix IV	Fluoride (App IV)	mg/l	13	10	77%	-0.028	0.939	
11_3_115	MW-7B	Appendix IV	Lead	mg/l	13	12	92%	NA	NA	
11_3_116	MW-7B	Appendix IV	Lithium	mg/l	13	0	0%	-0.280	0.259	
11_3_121	MW-7B	Appendix IV	Radium-226+228	pci/l	13	0	0%	-0.421	0.090	
11_5_114	MW-7B	Part 115	Iron	mg/l	13	0	0%	0.762	0.002	**
11_5_129	MW-7B	Part 115	Zinc	mg/l	13	12	92%	NA	NA	
12_2_105	MW-16C	Appendix III	Boron	mg/l	12	0	0%	0.253	0.322	
12_2_107	MW-16C	Appendix III	Calcium	mg/l	12	0	0%	0.654	0.011	*
12_2_108	MW-16C	Appendix III	Chloride	mg/l	12	6	50%	0.049	0.880	
12_2_112	MW-16C	Appendix III	Fluoride	mg/l	12	8	67%	0.285	0.420	
12_2_120	MW-16C	Appendix III	pH, Field	su	12	0	0%	0.334	0.192	
12_2_124	MW-16C	Appendix III	Sulfate	mg/l	12	0	0%	0.051	0.843	
12_2_126	MW-16C	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	0.320	0.210	
12_3_102	MW-16C	Appendix IV	Arsenic	mg/l	12	9	75%	-0.167	0.648	
12_3_103	MW-16C	Appendix IV	Barium	mg/l	12	0	0%	0.749	0.003	**
12_3_109	MW-16C	Appendix IV	Chromium	mg/l	12	11	92%	NA	NA	
12_3_113	MW-16C	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	0.285	0.420	
12_3_116	MW-16C	Appendix IV	Lithium	mg/l	12	0	0%	0.036	0.888	
12_3_118	MW-16C	Appendix IV	Molybdenum	mg/l	12	10	83%	-0.500	0.157	
12_3_121	MW-16C	Appendix IV	Radium-226+228	pci/l	12	1	8%	-0.504	0.057	
12_5_114	MW-16C	Part 115	Iron	mg/l	12	0	0%	0.511	0.046	*
13_2_105	MW-16D	Appendix III	Boron	mg/l	12	0	0%	0.078	0.761	
13_2_107	MW-16D	Appendix III	Calcium	mg/l	12	0	0%	0.244	0.339	
13_2_108	MW-16D	Appendix III	Chloride	mg/l	12	0	0%	0.274	0.284	
13_2_112	MW-16D	Appendix III	Fluoride	mg/l	12	8	67%	0.149	0.673	
13_2_120	MW-16D	Appendix III	pH, Field	su	12	0	0%	-0.137	0.593	
13_2_124	MW-16D	Appendix III	Sulfate	mg/l	12	1	8%	0.524	0.048	*
13_2_126	MW-16D	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	0.101	0.693	
13_3_102	MW-16D	Appendix IV	Arsenic	mg/l	12	3	25%	-0.071	0.801	
13_3_103	MW-16D	Appendix IV	Barium	mg/l	12	0	0%	0.473	0.064	
13_3_113	MW-16D	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	0.149	0.673	
13_3_116	MW-16D	Appendix IV	Lithium	mg/l	12	0	0%	0.206	0.421	
13_3_118	MW-16D	Appendix IV	Molybdenum	mg/l	12	0	0%	-0.069	0.786	

(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.
13_3_121	MW-16D	Appendix IV	Radium-226+228	pci/l	12	1	8%	-0.314	0.235	
13_3_122	MW-16D	Appendix IV	Selenium	mg/l	12	11	92%	NA	NA	
13_5_111	MW-16D	Part 115	Copper	mg/l	12	11	92%	NA	NA	
13_5_114	MW-16D	Part 115	Iron	mg/l	12	0	0%	0.505	0.048	*
13_5_129	MW-16D	Part 115	Zinc	mg/l	12	1	8%	0.606	0.022	*
18_2_105	MW-100C	Appendix III	Boron	mg/l	10	0	0%	0.419	0.126	
18_2_107	MW-100C	Appendix III	Calcium	mg/l	10	0	0%	0.571	0.037	*
18_2_108	MW-100C	Appendix III	Chloride	mg/l	10	0	0%	0.503	0.066	
18_2_112	MW-100C	Appendix III	Fluoride	mg/l	10	7	70%	-0.004	0.991	
18_2_120	MW-100C	Appendix III	pH, Field	su	10	0	0%	0.124	0.650	
18_2_124	MW-100C	Appendix III	Sulfate	mg/l	10	0	0%	0.384	0.160	
18_2_126	MW-100C	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	-0.021	0.940	
18_3_102	MW-100C	Appendix IV	Arsenic	mg/l	10	9	90%	NA	NA	
18_3_103	MW-100C	Appendix IV	Barium	mg/l	10	0	0%	0.466	0.089	
18_3_113	MW-100C	Appendix IV	Fluoride (App IV)	mg/l	10	7	70%	-0.004	0.991	
18_3_116	MW-100C	Appendix IV	Lithium	mg/l	10	0	0%	0.500	0.068	
18_3_118	MW-100C	Appendix IV	Molybdenum	mg/l	10	6	60%	0.113	0.750	
18_3_121	MW-100C	Appendix IV	Radium-226+228	pci/l	10	0	0%	-0.277	0.312	
18_5_114	MW-100C	Part 115	Iron	mg/l	10	0	0%	0.000	0.999	
18_5_129	MW-100C	Part 115	Zinc	mg/l	10	8	80%	-0.500	0.157	
19_2_105	MW-100D	Appendix III	Boron	mg/l	10	0	0%	0.488	0.075	
19_2_107	MW-100D	Appendix III	Calcium	mg/l	10	0	0%	0.375	0.171	
19_2_108	MW-100D	Appendix III	Chloride	mg/l	10	4	40%	0.251	0.436	
19_2_112	MW-100D	Appendix III	Fluoride	mg/l	10	5	50%	-0.061	0.856	
19_2_120	MW-100D	Appendix III	pH, Field	su	10	0	0%	0.345	0.208	
19_2_124	MW-100D	Appendix III	Sulfate	mg/l	10	1	10%	0.509	0.074	
19_2_126	MW-100D	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	0.324	0.237	
19_3_102	MW-100D	Appendix IV	Arsenic	mg/l	10	2	20%	-0.018	0.952	
19_3_103	MW-100D	Appendix IV	Barium	mg/l	10	0	0%	0.174	0.524	
19_3_113	MW-100D	Appendix IV	Fluoride (App IV)	mg/l	10	5	50%	-0.061	0.856	
19_3_116	MW-100D	Appendix IV	Lithium	mg/l	10	0	0%	-0.106	0.699	
19_3_118	MW-100D	Appendix IV	Molybdenum	mg/l	10	1	10%	0.611	0.032	*
19_3_121	MW-100D	Appendix IV	Radium-226+228	pci/l	10	1	10%	-0.013	0.962	
19_5_114	MW-100D	Part 115	Iron	mg/l	10	0	0%	0.061	0.824	
19_5_129	MW-100D	Part 115	Zinc	mg/l	10	9	90%	NA	NA	

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 5: Outlier Counts by Date

Date	Count
2023-02-02	5
2023-03-21	1
2023-04-25	1
2023-06-05	3
2024-08-07	2
2025-02-05	2

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_108	MW-7B	Appendix III	Chloride	mg/l	13	10	77%	3	2025-02-05	1	0.820
12_2_108	MW-16C	Appendix III	Chloride	mg/l	12	6	50%	6	2023-02-02	1	8.00
12_2_124	MW-16C	Appendix III	Sulfate	mg/l	12	0	0%	12	2023-02-02	1	19.0
12_2_126	MW-16C	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	12	2023-02-02	1	418
12_3_102	MW-16C	Appendix IV	Arsenic	mg/l	12	9	75%	3	2023-02-02	1	0.00200
12_5_114	MW-16C	Part 115	Iron	mg/l	12	0	0%	12	2023-03-21	1	1.10
13_2_124	MW-16D	Appendix III	Sulfate	mg/l	12	1	8%	11	2023-04-25	1	13.0
13_3_118	MW-16D	Appendix IV	Molybdenum	mg/l	12	0	0%	12	2023-02-02	1	0.00500
18_2_124	MW-100C	Appendix III	Sulfate	mg/l	10	0	0%	10	2023-06-05	1	27.0
19_2_107	MW-100D	Appendix III	Calcium	mg/l	10	0	0%	10	2024-08-07	1	56.5
19_3_102	MW-100D	Appendix IV	Arsenic	mg/l	10	2	20%	8	2025-02-05	1	0.00160
19_3_103	MW-100D	Appendix IV	Barium	mg/l	10	0	0%	10	2024-08-07	1	0.0190
19_3_116	MW-100D	Appendix IV	Lithium	mg/l	10	0	0%	10	2023-06-05	1	0.0310
19_3_121	MW-100D	Appendix IV	Radium-226+228	pci/l	10	1	10%	9	2023-06-05	1	5.06

Table 7: Seasonality Tests

[illegible]

(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_3_106	MW-16C	Appendix IV	Cadmium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12_3_109	MW-16C	Appendix IV	Chromium	mg/l	92%	3	3	3	3	12	0.300	0.339	0.345	0	0	1	0	1	NA	NA	NA	NA	
12_3_110	MW-16C	Appendix IV	Cobalt	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12_3_113	MW-16C	Appendix IV	Fluoride (App IV)	mg/l	67%	3	3	3	3	12	0.439	0.483	0.568	2	0	1	1	4	0.632	0.822	0.795		
12_3_115	MW-16C	Appendix IV	Lead	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12_3_116	MW-16C	Appendix IV	Lithium	mg/l	0%	3	3	3	3	12	0.195	0.158	0.159	3	3	3	3	12	0.195	0.158	0.159		
12_3_117	MW-16C	Appendix IV	Mercury	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12_3_118	MW-16C	Appendix IV	Molybdenum	mg/l	83%	3	3	3	3	12	0.755	0.648	0.592	1	1	0	0	2	0.317	NA	NA	NA	
12_3_121	MW-16C	Appendix IV	Radium-226+228	pci/l	8%	3	3	3	3	12	0.740	0.924	0.659	2	3	3	3	11	0.849	0.970	0.711		
12_3_122	MW-16C	Appendix IV	Selenium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12_3_125	MW-16C	Appendix IV	Thallium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12_5_111	MW-16C	Part 115	Copper	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12_5_114	MW-16C	Part 115	Iron	mg/l	0%	3	3	3	3	12	0.197	0.165	0.146	3	3	3	3	12	0.197	0.165	0.146		
12_5_119	MW-16C	Part 115	Nickel	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12_5_123	MW-16C	Part 115	Silver	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12_5_128	MW-16C	Part 115	Vanadium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12_5_129	MW-16C	Part 115	Zinc	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_2_105	MW-16D	Appendix III	Boron	mg/l	0%	3	3	3	3	12	0.692	0.572	0.565	3	3	3	3	12	0.692	0.572	0.565		
13_2_107	MW-16D	Appendix III	Calcium	mg/l	0%	3	3	3	3	12	0.120	0.241	0.241	3	3	3	3	12	0.120	0.241	0.241		
13_2_108	MW-16D	Appendix III	Chloride	mg/l	0%	3	3	3	3	12	0.379	0.304	0.297	3	3	3	3	12	0.379	0.304	0.297		
13_2_112	MW-16D	Appendix III	Fluoride	mg/l	67%	3	3	3	3	12	0.459	0.516	0.579	2	0	1	1	4	0.407	0.817	0.792		
13_2_120	MW-16D	Appendix III	pH, Field	su	0%	3	3	3	3	12	0.101	0.094	0.093	3	3	3	3	12	0.101	0.094	0.093		
13_2_124	MW-16D	Appendix III	Sulfate	mg/l	8%	3	3	3	3	12	0.083	0.038	0.033	2	3	3	3	11	0.092	0.066	0.058		
13_2_126	MW-16D	Appendix III	Total Dissolved Solids	mg/l	0%	3	3	3	3	12	0.832	0.763	0.771	3	3	3	3	12	0.832	0.763	0.771		
13_3_101	MW-16D	Appendix IV	Antimony	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_102	MW-16D	Appendix IV	Arsenic	mg/l	25%	3	3	3	3	12	0.870	0.903	0.857	2	2	3	2	9	0.950	0.962	0.935		
13_3_103	MW-16D	Appendix IV	Barium	mg/l	0%	3	3	3	3	12	0.192	0.191	0.197	3	3	3	3	12	0.192	0.191	0.197		
13_3_104	MW-16D	Appendix IV	Beryllium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_106	MW-16D	Appendix IV	Cadmium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_109	MW-16D	Appendix IV	Chromium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_110	MW-16D	Appendix IV	Cobalt	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_113	MW-16D	Appendix IV	Fluoride (App IV)	mg/l	67%	3	3	3	3	12	0.459	0.516	0.579	2	0	1	1	4	0.407	0.817	0.792		
13_3_115	MW-16D	Appendix IV	Lead	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_116	MW-16D	Appendix IV	Lithium	mg/l	0%	3	3	3	3	12	0.624	0.408	0.374	3	3	3	3	12	0.624	0.408	0.374		
13_3_117	MW-16D	Appendix IV	Mercury	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	
13_3_118	MW-16D	Appendix IV	Molybdenum	mg/l	0%	3	3	3	3	12	0.123	0.187	0.233	3	3	3	3	12	0.123	0.187	0.233		
13_3_121	MW-16D	Appendix IV	Radium-226+228	pci/l	8%	3	3	3	3	12	0.764	0.884	0.838	2	3	3	3	11	0.959	0.982	0.973		
13_3_122	MW-16D	Appendix IV	Selenium	mg/l	92%	3	3	3	3	12	0.300	0.385	0.415	0	0	0	1	1	NA	NA	NA	NA	
13_3_125	MW-16D	Appendix IV	Thallium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA	NA	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests (continued)

ID	Well	Constituent Type	Constituent	Unit	% NDs	Full								Without Non-Detects													
						Sample Size					p-Value			Sample Size					p-Value								
						Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA						
13_5_111	MW-16D	Part 115	Copper	mg/l	92%	3	3	3	3	12	1.000	0.982	0.978	1	0	0	0	1	NA	NA	NA						
13_5_114	MW-16D	Part 115	Iron	mg/l	0%	3	3	3	3	12	0.474	0.424	0.202	3	3	3	3	12	0.474	0.424	0.202						
13_5_119	MW-16D	Part 115	Nickel	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA						
13_5_123	MW-16D	Part 115	Silver	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA						
13_5_128	MW-16D	Part 115	Vanadium	mg/l	100%	3	3	3	3	12	0.392	0.441	0.441	NA	NA	NA	NA	NA	NA	NA	NA						
13_5_129	MW-16D	Part 115	Zinc	mg/l	8%	3	3	3	3	12	0.144	0.074	0.145	3	3	2	3	11	0.153	0.119	0.202						
18_2_105	MW-100C	Appendix III	Boron	mg/l	0%	3	0	4	3	10	0.554	0.416	0.409	3	0	4	3	10	0.554	0.416	0.409						
18_2_107	MW-100C	Appendix III	Calcium	mg/l	0%	3	0	4	3	10	0.049	*	0.016	*	0.017	*	3	0	4	3	10	0.049	*	0.016	*	0.017	*
18_2_108	MW-100C	Appendix III	Chloride	mg/l	0%	3	0	4	3	10	0.132	0.089	0.065	3	0	4	3	10	0.132	0.089	0.065						
18_2_112	MW-100C	Appendix III	Fluoride	mg/l	70%	3	0	4	3	10	0.914	0.923	0.782	1	0	1	1	3	0.368	NA	NA						
18_2_120	MW-100C	Appendix III	pH, Field	su	0%	3	0	4	3	10	0.055	0.122	0.119	3	0	4	3	10	0.055	0.122	0.119						
18_2_124	MW-100C	Appendix III	Sulfate	mg/l	0%	3	0	4	3	10	0.049	*	0.116	0.052	3	0	4	3	10	0.049	*	0.116	0.052				
18_2_126	MW-100C	Appendix III	Total Dissolved Solids	mg/l	0%	3	0	4	3	10	0.117	0.043	*	0.041	*	3	0	4	3	10	0.117	0.043	*	0.041	*		
18_3_101	MW-100C	Appendix IV	Antimony	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_3_102	MW-100C	Appendix IV	Arsenic	mg/l	90%	3	0	4	3	10	0.311	0.350	0.350	0	0	0	1	1	NA	NA	NA						
18_3_103	MW-100C	Appendix IV	Barium	mg/l	0%	3	0	4	3	10	0.172	0.134	0.153	3	0	4	3	10	0.172	0.134	0.153						
18_3_104	MW-100C	Appendix IV	Beryllium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_3_106	MW-100C	Appendix IV	Cadmium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_3_109	MW-100C	Appendix IV	Chromium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_3_110	MW-100C	Appendix IV	Cobalt	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_3_113	MW-100C	Appendix IV	Fluoride (App IV)	mg/l	70%	3	0	4	3	10	0.914	0.923	0.782	1	0	1	1	3	0.368	NA	NA						
18_3_115	MW-100C	Appendix IV	Lead	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_3_116	MW-100C	Appendix IV	Lithium	mg/l	0%	3	0	4	3	10	0.119	0.076	0.078	3	0	4	3	10	0.119	0.076	0.078						
18_3_117	MW-100C	Appendix IV	Mercury	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_3_118	MW-100C	Appendix IV	Molybdenum	mg/l	60%	3	0	4	3	10	0.063	0.059	0.139	1	0	3	0	4	0.157	0.032	*	0.007	**				
18_3_121	MW-100C	Appendix IV	Radium-226+228	pci/l	0%	3	0	4	3	10	0.479	0.665	0.610	3	0	4	3	10	0.479	0.665	0.610						
18_3_122	MW-100C	Appendix IV	Selenium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_3_125	MW-100C	Appendix IV	Thallium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_5_111	MW-100C	Part 115	Copper	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_5_114	MW-100C	Part 115	Iron	mg/l	0%	3	0	4	3	10	0.228	0.694	0.883	3	0	4	3	10	0.228	0.694	0.883						
18_5_119	MW-100C	Part 115	Nickel	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_5_123	MW-100C	Part 115	Silver	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_5_128	MW-100C	Part 115	Vanadium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA					
18_5_129	MW-100C	Part 115	Zinc	mg/l	80%	3	0	4	3	10	0.223	0.246	0.256	1	0	0	1	2	0.317	NA	NA						
19_2_105	MW-100D	Appendix III	Boron	mg/l	0%	3	0	4	3	10	0.231	0.600	0.639	3	0	4	3	10	0.231	0.600	0.639						
19_2_107	MW-100D	Appendix III	Calcium	mg/l	0%	3	0	4	3	10	0.211	0.592	0.445	3	0	4	3	10	0.211	0.592	0.445						
19_2_108	MW-100D	Appendix III	Chloride	mg/l	40%	3	0	4	3	10	0.475	0.608	0.574	3	0	2	1	6	0.414	0.618	0.616						
19_2_112	MW-100D	Appendix III	Fluoride	mg/l	50%	3	0	4	3	10	0.189	0.387	0.397	3	0	1	1	5	0.670	0.906	0.932						
19_2_120	MW-100D	Appendix III	pH, Field	su	0%	3	0	4	3	10	0.943	0.973	0.976	3	0	4	3	10	0.943	0.973	0.976						

(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		
19_2_124	MW-100D	Appendix III	Sulfate	mg/l	10%	3	0	4	3	10	0.585	0.618	0.538	3	0	3	3	9	0.561	0.523	0.510		
19_2_126	MW-100D	Appendix III	Total Dissolved Solids	mg/l	0%	3	0	4	3	10	0.705	0.680	0.696	3	0	4	3	10	0.705	0.680	0.696		
19_3_101	MW-100D	Appendix IV	Antimony	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_3_102	MW-100D	Appendix IV	Arsenic	mg/l	20%	3	0	4	3	10	0.444	0.505	0.516	3	0	2	3	8	0.435	0.507	0.507		
19_3_103	MW-100D	Appendix IV	Barium	mg/l	0%	3	0	4	3	10	0.205	0.312	0.267	3	0	4	3	10	0.205	0.312	0.267		
19_3_104	MW-100D	Appendix IV	Beryllium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_3_106	MW-100D	Appendix IV	Cadmium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_3_109	MW-100D	Appendix IV	Chromium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_3_110	MW-100D	Appendix IV	Cobalt	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_3_113	MW-100D	Appendix IV	Fluoride (App IV)	mg/l	50%	3	0	4	3	10	0.189	0.387	0.397	3	0	1	1	5	0.670	0.906	0.932		
19_3_115	MW-100D	Appendix IV	Lead	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_3_116	MW-100D	Appendix IV	Lithium	mg/l	0%	3	0	4	3	10	0.263	0.820	0.869	3	0	4	3	10	0.263	0.820	0.869		
19_3_117	MW-100D	Appendix IV	Mercury	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_3_118	MW-100D	Appendix IV	Molybdenum	mg/l	10%	3	0	4	3	10	0.387	0.493	0.504	3	0	3	3	9	0.185	0.193	0.177		
19_3_121	MW-100D	Appendix IV	Radium-226+228	pci/l	10%	3	0	4	3	10	0.043	*	0.261	0.047	*	2	0	4	3	9	0.086	0.358	0.092
19_3_122	MW-100D	Appendix IV	Selenium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_3_125	MW-100D	Appendix IV	Thallium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_5_111	MW-100D	Part 115	Copper	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_5_114	MW-100D	Part 115	Iron	mg/l	0%	3	0	4	3	10	0.098	0.068	0.067	3	0	4	3	10	0.098	0.068	0.067		
19_5_119	MW-100D	Part 115	Nickel	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_5_123	MW-100D	Part 115	Silver	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_5_128	MW-100D	Part 115	Vanadium	mg/l	100%	3	0	4	3	10	0.311	0.350	0.350	NA	NA	NA	NA	NA	NA	NA	NA		
19_5_129	MW-100D	Part 115	Zinc	mg/l	90%	3	0	4	3	10	0.311	0.350	0.350	1	0	0	0	1	NA	NA	NA		

*** 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_105	MW-7B	Appendix III	Boron	mg/l	13	0	0%	Parametric	Lognormal MLE	-0.0000494	0.022	↔
11_2_107	MW-7B	Appendix III	Calcium	mg/l	13	0	0%	Parametric	Lognormal MLE	-0.000129	0.005	↓
11_2_120	MW-7B	Appendix III	pH, Field	su	13	0	0%	Parametric	Lognormal MLE	0.0000132	0.367	↔
11_2_126	MW-7B	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	Parametric	Lognormal MLE	-0.0000299	0.054	↔
11_3_103	MW-7B	Appendix IV	Barium	mg/l	13	0	0%	Parametric	Lognormal MLE	-0.000275	0.000	↓
11_3_116	MW-7B	Appendix IV	Lithium	mg/l	13	0	0%	Nonparametric	MK	0	0.693	↔
11_3_121	MW-7B	Appendix IV	Radium-226+228	pci/l	13	0	0%	Parametric	Lognormal MLE	0.000543	0.281	↔
11_5_114	MW-7B	Part 115	Iron	mg/l	13	0	0%	Parametric	Lognormal MLE	0.00104	0.000	↑
12_2_105	MW-16C	Appendix III	Boron	mg/l	12	0	0%	Parametric	Lognormal MLE	0.0000175	0.664	↔
12_2_107	MW-16C	Appendix III	Calcium	mg/l	12	0	0%	Parametric	Lognormal MLE	0.000239	0.001	↑
12_2_120	MW-16C	Appendix III	pH, Field	su	12	0	0%	Parametric	Lognormal MLE	-0.0000122	0.529	↔
12_2_124	MW-16C	Appendix III	Sulfate	mg/l	12	0	0%	Nonparametric	MK	0.00184	0.483	↔
12_2_126	MW-16C	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	Nonparametric	MK	-0.0405	0.085	↔
12_3_103	MW-16C	Appendix IV	Barium	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.00100	0.000	↓
12_3_116	MW-16C	Appendix IV	Lithium	mg/l	12	0	0%	Parametric	Lognormal MLE	0.0000701	0.317	↔
12_3_121	MW-16C	Appendix IV	Radium-226+228	pci/l	12	1	8%	Parametric	Lognormal MLE	0.000192	0.890	↔
12_5_114	MW-16C	Part 115	Iron	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.00106	0.000	↓
13_2_105	MW-16D	Appendix III	Boron	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.0000814	0.140	↔
13_2_107	MW-16D	Appendix III	Calcium	mg/l	12	0	0%	Parametric	Lognormal MLE	0.0000340	0.211	↔
13_2_108	MW-16D	Appendix III	Chloride	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.0000586	0.618	↔
13_2_120	MW-16D	Appendix III	pH, Field	su	12	0	0%	Parametric	Lognormal MLE	0.00000504	0.810	↔
13_2_124	MW-16D	Appendix III	Sulfate	mg/l	12	1	8%	Parametric	Lognormal MLE	-0.000654	0.127	↔
13_2_126	MW-16D	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.000000401	0.989	↔
13_3_102	MW-16D	Appendix IV	Arsenic	mg/l	12	3	25%	Nonparametric	MK	0	0.563	↔
13_3_103	MW-16D	Appendix IV	Barium	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.000176	0.000	↓
13_3_116	MW-16D	Appendix IV	Lithium	mg/l	12	0	0%	Parametric	Lognormal MLE	-0.0000143	0.937	↔
13_3_118	MW-16D	Appendix IV	Molybdenum	mg/l	12	0	0%	Nonparametric	MK	-0.000000713	0.214	↔
13_3_121	MW-16D	Appendix IV	Radium-226+228	pci/l	12	1	8%	Parametric	Lognormal MLE	-0.00115	0.264	↔
13_5_114	MW-16D	Part 115	Iron	mg/l	12	0	0%	Parametric	Lognormal MLE	0.00212	0.003	↑
13_5_129	MW-16D	Part 115	Zinc	mg/l	12	1	8%	Parametric	Lognormal MLE	-0.00686	0.000	↓
18_2_105	MW-100C	Appendix III	Boron	mg/l	10	0	0%	Parametric	Lognormal MLE	0.000246	0.001	↑
18_2_107	MW-100C	Appendix III	Calcium	mg/l	10	0	0%	Parametric	Lognormal MLE	0.0000764	0.184	↔
18_2_108	MW-100C	Appendix III	Chloride	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.00207	0.000	↓
18_2_120	MW-100C	Appendix III	pH, Field	su	10	0	0%	Parametric	Lognormal MLE	-0.00000344	0.875	↔
18_2_124	MW-100C	Appendix III	Sulfate	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.00228	0.000	↓
18_2_126	MW-100C	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000139	0.001	↓
18_3_103	MW-100C	Appendix IV	Barium	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.000476	0.003	↓
18_3_116	MW-100C	Appendix IV	Lithium	mg/l	10	0	0%	Parametric	Lognormal MLE	0.000133	0.219	↔
18_3_121	MW-100C	Appendix IV	Radium-226+228	pci/l	10	0	0%	Parametric	Lognormal MLE	0.000282	0.667	↔
18_5_114	MW-100C	Part 115	Iron	mg/l	10	0	0%	Parametric	Lognormal MLE	-0.0000893	0.869	↔
19_2_105	MW-100D	Appendix III	Boron	mg/l	10	0	0%	Nonparametric	MK	-0.00141	0.004	↓
19_2_107	MW-100D	Appendix III	Calcium	mg/l	10	0	0%	Nonparametric	MK	0.00220	1.000	↔
19_2_108	MW-100D	Appendix III	Chloride	mg/l	10	4	40%	Parametric	Lognormal MLE	0.00177	0.019	↔

(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
19_2_120	MW-100D	Appendix III	pH, Field	su	10	0	0%	Parametric	Lognormal MLE	-0.000134	0.010	↓
19_2_124	MW-100D	Appendix III	Sulfate	mg/l	10	1	10%	Parametric	Lognormal MLE	0.00368	0.000	↑
19_2_126	MW-100D	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	Parametric	Lognormal MLE	0.000442	0.018	↔
19_3_102	MW-100D	Appendix IV	Arsenic	mg/l	10	2	20%	Nonparametric	MK	0	0.654	↔
19_3_103	MW-100D	Appendix IV	Barium	mg/l	10	0	0%	Parametric	Lognormal MLE	0.000455	0.299	↔
19_3_116	MW-100D	Appendix IV	Lithium	mg/l	10	0	0%	Nonparametric	MK	0.00000198	0.517	↔
19_3_118	MW-100D	Appendix IV	Molybdenum	mg/l	10	1	10%	Parametric	Lognormal MLE	-0.000589	0.191	↔
19_3_121	MW-100D	Appendix IV	Radium-226+228	pci/l	10	1	10%	Parametric	Lognormal MLE	-0.00276	0.040	↔
19_5_114	MW-100D	Part 115	Iron	mg/l	10	0	0%	Parametric	Lognormal MLE	0.000241	0.837	↔

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_105	MW-7B	Appendix III	Boron	mg/l	13	0	0%	< 0.0001	0.899	↔	-0.00034878	0.126	↔	2023-08-01	0.378	↔
11_2_107	MW-7B	Appendix III	Calcium	mg/l	13	0	0%	-0.017429	0.393	↔	-0.00076553	0.122	↔	2022-05-11	0.569	↔
11_2_108	MW-7B	Appendix III	Chloride	mg/l	13	10	77%	< 0.0001	1.000	↔	-0.0067532	0.000	↓	2023-04-16	0.931	↔
11_2_112	MW-7B	Appendix III	Fluoride	mg/l	13	10	77%	-0.00072473	0.011	↔	0.00077348	0.534	↔	2024-05-08	0.634	↔
11_2_120	MW-7B	Appendix III	pH, Field	su	13	0	0%	-0.002928	0.267	↔	0.0002593	0.064	↔	2022-06-22	0.473	↔
11_2_126	MW-7B	Appendix III	Total Dissolved Solids	mg/l	13	0	0%	0.00068099	0.952	↔	-0.044199	0.461	↔	2024-02-09	0.350	↔
11_3_102	MW-7B	Appendix IV	Arsenic	mg/l	13	11	85%	< 0.0001	0.348	↔	> -0.0001	0.057	↔	2024-05-23	0.581	↔
11_3_103	MW-7B	Appendix IV	Barium	mg/l	13	0	0%	> -0.0001	0.179	↔	> -0.0001	0.024	↔	2022-07-19	0.742	↔
11_3_106	MW-7B	Appendix IV	Cadmium	mg/l	13	13	100%	< 0.0001	0.165	↔	> -0.0001	0.000	↓	2024-05-27	0.941	↔
11_3_113	MW-7B	Appendix IV	Fluoride (App IV)	mg/l	13	10	77%	-0.00072473	0.011	↔	0.00077348	0.534	↔	2024-05-08	0.634	↔
11_3_115	MW-7B	Appendix IV	Lead	mg/l	13	12	92%	< 0.0001	0.669	↔	> -0.0001	0.148	↔	2022-06-22	0.232	↔
11_3_116	MW-7B	Appendix IV	Lithium	mg/l	13	0	0%	< 0.0001	0.465	↔	> -0.0001	0.656	↔	2024-04-22	0.082	↔
11_5_114	MW-7B	Part 115	Iron	mg/l	13	0	0%	0.00010889	0.005	↑	< 0.0001	0.780	↔	2023-09-19	0.818	↔
12_2_105	MW-16C	Appendix III	Boron	mg/l	12	0	0%	< 0.0001	0.036	↔	-0.0001087	0.195	↔	2024-04-07	0.519	↔
12_2_107	MW-16C	Appendix III	Calcium	mg/l	12	0	0%	0.074805	0.004	↑	0.0030239	0.529	↔	2023-07-27	0.864	↔
12_2_112	MW-16C	Appendix III	Fluoride	mg/l	12	8	67%	-0.0021787	0.020	↔	0.00059783	0.770	↔	2024-03-02	0.587	↔
12_2_120	MW-16C	Appendix III	pH, Field	su	12	0	0%	-0.0018984	0.298	↔	0.00010565	0.559	↔	2023-05-29	0.377	↔
12_2_124	MW-16C	Appendix III	Sulfate	mg/l	12	0	0%	-0.23404	0.000	↓	0.0059231	0.000	↑	2023-03-26	0.984	↔
12_2_126	MW-16C	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	-1.0413	0.000	↓	-0.012422	0.408	↔	2023-04-25	0.938	↔
12_3_102	MW-16C	Appendix IV	Arsenic	mg/l	12	9	75%	< 0.0001	0.671	↔	> -0.0001	0.080	↔	2024-06-10	0.556	↔
12_3_103	MW-16C	Appendix IV	Barium	mg/l	12	0	0%	-0.00013746	0.001	↓	> -0.0001	0.308	↔	2023-08-12	0.880	↔
12_3_113	MW-16C	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	-0.0021787	0.020	↔	0.00059783	0.770	↔	2024-03-02	0.587	↔
12_3_118	MW-16C	Appendix IV	Molybdenum	mg/l	12	10	83%	> -0.0001	0.357	↔	> -0.0001	0.051	↔	2023-05-23	0.653	↔
12_3_121	MW-16C	Appendix IV	Radium-226+228	pci/l	12	1	8%	0.002096	0.632	↔	-0.0030448	0.513	↔	2024-01-31	0.085	↔
12_5_114	MW-16C	Part 115	Iron	mg/l	12	0	0%	-0.0024872	0.044	↔	-0.00018774	0.479	↔	2023-07-27	0.720	↔
13_2_105	MW-16D	Appendix III	Boron	mg/l	12	0	0%	0.00077302	0.122	↔	-0.0016433	0.201	↔	2024-02-01	0.595	↔
13_2_108	MW-16D	Appendix III	Chloride	mg/l	12	0	0%	0.021277	0.146	↔	-0.0016938	0.045	↔	2023-04-22	0.641	↔

(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_112	MW-16D	Appendix III	Fluoride	mg/l	12	8	67%	-0.0016905	0.029	↔	0.001413	0.423	↔	2024-04-26	0.534	↔
13_2_120	MW-16D	Appendix III	pH, Field	su	12	0	0%	-0.0013266	0.386	↔	0.00021363	0.391	↔	2023-06-09	0.196	↔
13_2_124	MW-16D	Appendix III	Sulfate	mg/l	12	1	8%	-0.012882	0.094	↔	0.0086957	0.640	↔	2024-04-12	0.366	↔
13_2_126	MW-16D	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	0.020572	0.459	↔	-0.043478	0.551	↔	2024-05-01	0.122	↔
13_3_102	MW-16D	Appendix IV	Arsenic	mg/l	12	3	25%	< 0.0001	0.152	↔	> -0.0001	0.416	↔	2023-04-25	0.353	↔
13_3_113	MW-16D	Appendix IV	Fluoride (App IV)	mg/l	12	8	67%	-0.0016905	0.029	↔	0.001413	0.423	↔	2024-04-26	0.534	↔
13_3_116	MW-16D	Appendix IV	Lithium	mg/l	12	0	0%	-0.00014894	0.081	↔	< 0.0001	0.130	↔	2023-04-23	0.716	↔
13_3_118	MW-16D	Appendix IV	Molybdenum	mg/l	12	0	0%	0.00012766	0.000	↑	> -0.0001	0.043	↔	2023-03-21	0.911	↔
13_3_122	MW-16D	Appendix IV	Selenium	mg/l	12	11	92%	< 0.0001	0.673	↔	> -0.0001	0.000	↓	2024-07-25	0.949	↔
13_5_114	MW-16D	Part 115	Iron	mg/l	12	0	0%	0.00099283	0.007	↑	-0.00081522	0.289	↔	2024-06-10	0.735	↔
13_5_129	MW-16D	Part 115	Zinc	mg/l	12	1	8%	-0.0010169	0.031	↔	> -0.0001	0.851	↔	2023-08-08	0.645	↔
18_2_105	MW-100C	Appendix III	Boron	mg/l	10	0	0%	0.004	0.032	↔	0.00022604	0.022	↔	2023-08-07	0.932	↔
18_2_107	MW-100C	Appendix III	Calcium	mg/l	10	0	0%	0.039386	0.017	↔	-0.0034601	0.382	↔	2023-10-23	0.745	↔
18_2_108	MW-100C	Appendix III	Chloride	mg/l	10	0	0%	-0.085714	0.000	↓	-0.0047993	0.006	↓	2023-09-07	0.984	↓
18_2_124	MW-100C	Appendix III	Sulfate	mg/l	10	0	0%	-0.2	0.004	↓	-0.005015	0.339	↔	2023-09-03	0.936	↔
18_2_126	MW-100C	Appendix III	Total Dissolved Solids	mg/l	10	0	0%	-0.062578	0.355	↔	-0.030163	0.333	↔	2024-01-02	0.529	↔
18_3_103	MW-100C	Appendix IV	Barium	mg/l	10	0	0%	0.00042857	0.082	↔	> -0.0001	0.003	↓	2023-07-20	0.823	↔
18_3_116	MW-100C	Appendix IV	Lithium	mg/l	10	0	0%	< 0.0001	0.071	↔	> -0.0001	0.354	↔	2023-09-17	0.781	↔
18_3_118	MW-100C	Appendix IV	Molybdenum	mg/l	10	6	60%	> -0.0001	0.021	↔	> -0.0001	0.024	↔	2023-09-18	0.890	↔
18_3_121	MW-100C	Appendix IV	Radium-226+228	pci/l	10	0	0%	0.001974	0.317	↔	-0.0040055	0.259	↔	2024-07-15	0.322	↔
18_5_129	MW-100C	Part 115	Zinc	mg/l	10	8	80%	< 0.0001	0.852	↔	> -0.0001	0.230	↔	2024-06-15	0.424	↔
19_2_112	MW-100D	Appendix III	Fluoride	mg/l	10	5	50%	-0.0030249	0.005	↓	0.0024725	0.096	↔	2024-04-30	0.799	↔
19_2_120	MW-100D	Appendix III	pH, Field	su	10	0	0%	< 0.0001	0.988	↔	-0.00155	0.128	↔	2024-01-02	0.455	↔
19_3_102	MW-100D	Appendix IV	Arsenic	mg/l	10	2	20%	< 0.0001	0.031	↔	> -0.0001	0.024	↔	2024-05-15	0.769	↔
19_3_113	MW-100D	Appendix IV	Fluoride (App IV)	mg/l	10	5	50%	-0.0030249	0.005	↓	0.0024725	0.096	↔	2024-04-30	0.799	↔
19_3_118	MW-100D	Appendix IV	Molybdenum	mg/l	10	1	10%	0.00014286	0.023	↔	> -0.0001	0.009	↓	2023-07-11	0.805	↔
19_5_114	MW-100D	Part 115	Iron	mg/l	10	0	0%	-0.0017386	0.334	↔	0.00075733	0.358	↔	2023-11-27	0.258	↔

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_107	MW-7B	Appendix III	Calcium	mg/l	13	0	0%	-0.017987	0.283	↔	0.00022277	0.746	↔	-0.0070817	0.050	↔	2022-05-18	2024-07-07	0.787	↔
11_2_120	MW-7B	Appendix III	pH, Field	su	13	0	0%	-0.0025133	0.062	↔	0.001759	0.512	↔	> -0.0001	0.983	↔	2022-08-10	2023-01-21	0.577	↔
11_3_102	MW-7B	Appendix IV	Arsenic	mg/l	13	11	85%	> -0.0001	0.298	↔	< 0.0001	0.068	↔	> -0.0001	0.031	↔	2023-06-13	2024-02-24	0.786	↔
11_3_103	MW-7B	Appendix IV	Barium	mg/l	13	0	0%	> -0.0001	0.219	↔	> -0.0001	0.243	↔	> -0.0001	0.725	↔	2022-06-28	2023-08-02	0.753	↔
11_3_115	MW-7B	Appendix IV	Lead	mg/l	13	12	92%	< 0.0001	0.532	↔	> -0.0001	0.331	↔	> -0.0001	0.945	↔	2022-06-22	2023-02-15	0.325	↔
11_5_114	MW-7B	Part 115	Iron	mg/l	13	0	0%	> -0.0001	0.620	↔	0.00028571	0.127	↔	< 0.0001	0.183	↔	2022-07-14	2022-12-20	0.870	↔
12_2_120	MW-16C	Appendix III	pH, Field	su	12	0	0%	-0.0021206	0.072	↔	0.00135	0.128	↔	-0.00037982	0.282	↔	2023-07-01	2023-12-24	0.664	↔
12_2_124	MW-16C	Appendix III	Sulfate	mg/l	12	0	0%	-0.23718	0.000	↓	0.0025057	0.219	↔	0.0085118	0.050	↔	2023-03-23	2024-02-01	0.990	↔

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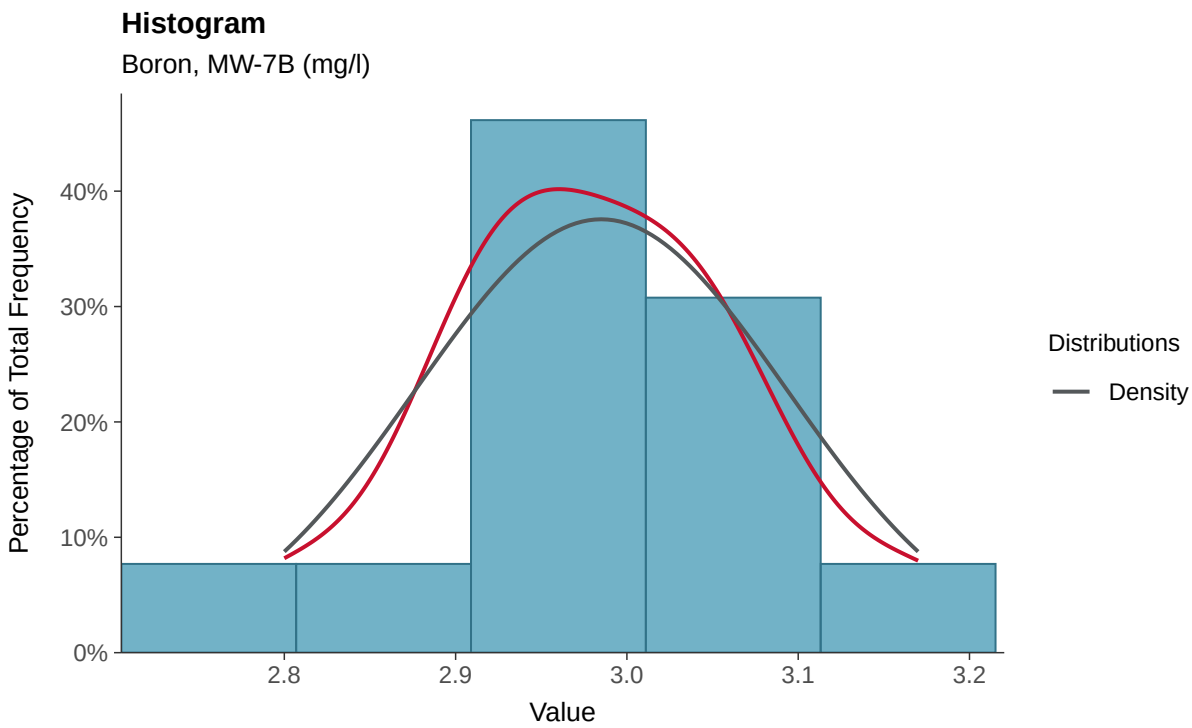
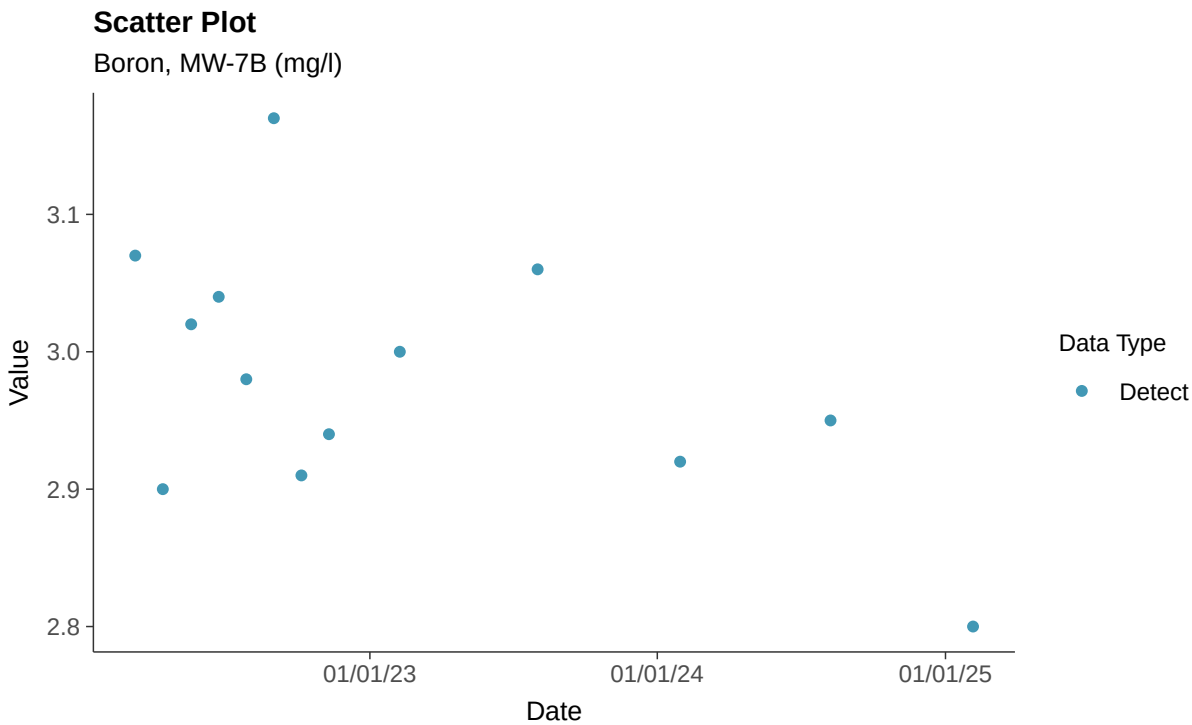
Table 10: Trend Tests: Piecewise Linear-Linear-Linear (continued)

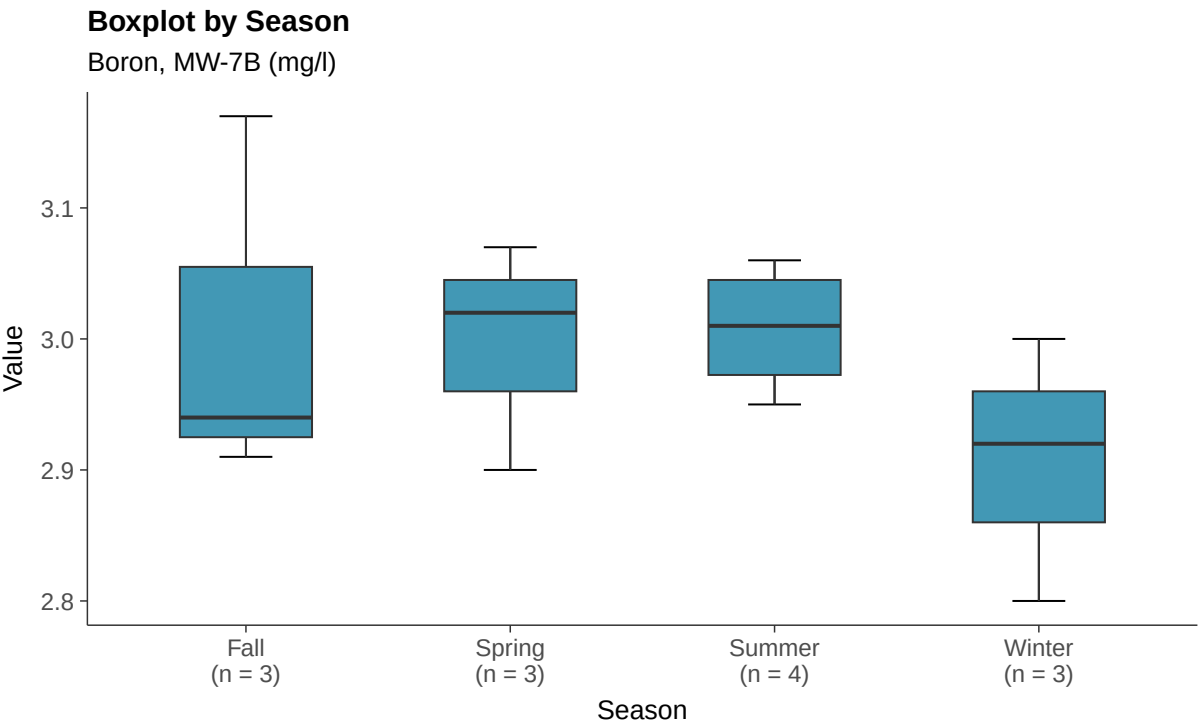
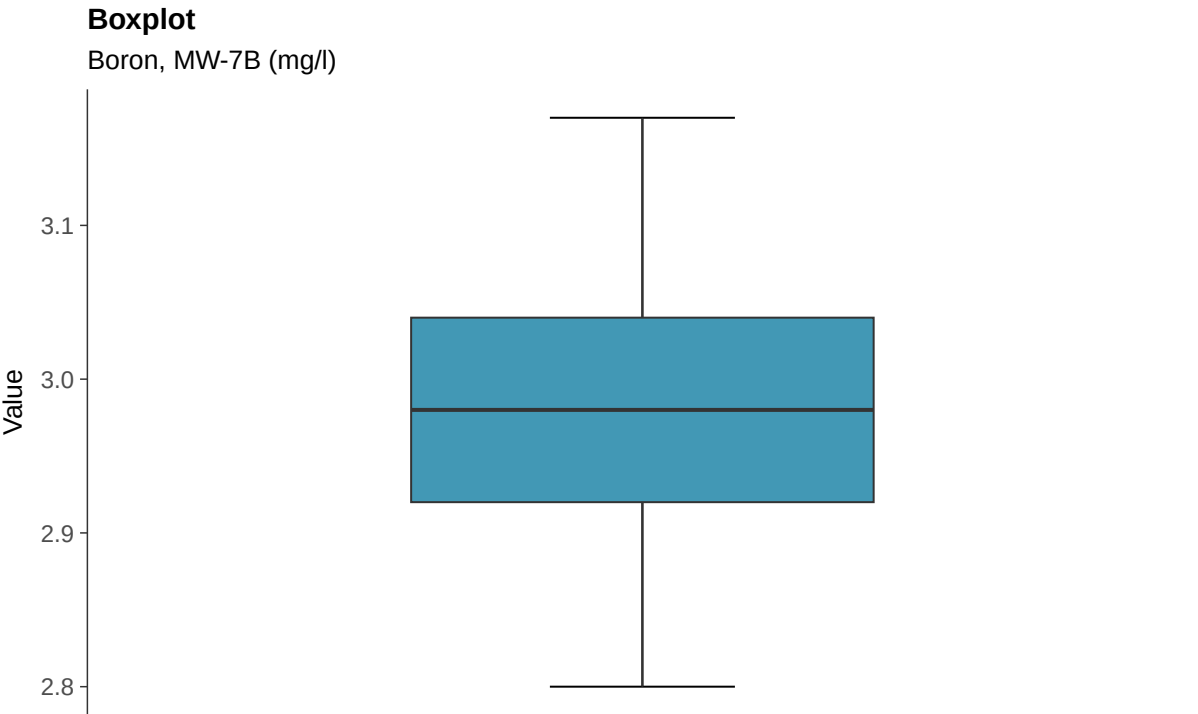
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Line 1			Line 2			Line 3			Break 1	Break 2	R-Squared	Overall Trend
								Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend				
12_3_102	MW-16C	Appendix IV	Arsenic	mg/l	12	9	75%	> -0.0001	0.334	↔	< 0.0001	0.091	↔	> -0.0001	0.045	↔	2023-11-12	2024-02-14	0.790	↔
12_3_103	MW-16C	Appendix IV	Barium	mg/l	12	0	0%	-0.00013682	0.006	↓	> -0.0001	0.769	↔	> -0.0001	0.981	↔	2023-08-09	2024-08-05	0.882	↔
13_2_105	MW-16D	Appendix III	Boron	mg/l	12	0	0%	-0.00084098	0.531	↔	0.0020336	0.332	↔	-0.0018683	0.017	↔	2023-07-05	2024-01-13	0.707	↔
13_2_107	MW-16D	Appendix III	Calcium	mg/l	12	0	0%	-0.0042346	0.358	↔	0.014859	0.495	↔	-0.0016362	0.243	↔	2023-07-06	2023-10-16	0.653	↔
13_2_108	MW-16D	Appendix III	Chloride	mg/l	12	0	0%	0.025163	0.010	↑	-0.014812	0.374	↔	-0.0008234	0.344	↔	2023-05-09	2023-07-24	0.785	↔
13_2_120	MW-16D	Appendix III	pH, Field	su	12	0	0%	-0.00099318	0.116	↔	0.0027235	0.541	↔	-0.00051521	0.242	↔	2023-10-04	2024-01-31	0.583	↔
13_2_124	MW-16D	Appendix III	Sulfate	mg/l	12	1	8%	0.080646	0.167	↔	0.1146	0.072	↔	0.0079522	0.266	↔	2024-01-20	2023-04-08	0.746	↔
13_2_126	MW-16D	Appendix III	Total Dissolved Solids	mg/l	12	0	0%	0.19065	0.084	↔	0.25316	0.228	↔	-0.0055317	0.790	↔	2023-10-16	2023-06-01	0.494	↔
13_3_102	MW-16D	Appendix IV	Arsenic	mg/l	12	3	25%	< 0.0001	0.508	↔	< 0.0001	0.837	↔	> -0.0001	0.465	↔	2023-04-24	2024-06-01	0.421	↔
13_3_103	MW-16D	Appendix IV	Barium	mg/l	12	0	0%	< 0.0001	0.968	↔	> -0.0001	0.089	↔	< 0.0001	0.992	↔	2023-04-24	2024-07-10	0.754	↔
13_3_116	MW-16D	Appendix IV	Lithium	mg/l	12	0	0%	-0.00019965	0.000	↓	< 0.0001	0.055	↔	> -0.0001	0.854	↔	2023-04-25	2023-08-09	0.941	↔
13_5_114	MW-16D	Part 115	Iron	mg/l	12	0	0%	0.001108	0.093	↔	0.00065293	0.654	↔	-0.00081522	0.359	↔	2023-10-04	2024-07-27	0.740	↔
18_2_120	MW-100C	Appendix III	pH, Field	su	10	0	0%	-0.0028571	0.108	↔	0.0016912	0.050	↔	-0.00038462	0.510	↔	2023-09-12	2024-02-08	0.776	↔
18_3_103	MW-100C	Appendix IV	Barium	mg/l	10	0	0%	0.00021429	0.069	↔	-0.00012082	0.034	↔	> -0.0001	1.000	↔	2023-09-09	2024-04-29	0.915	↔
18_3_116	MW-100C	Appendix IV	Lithium	mg/l	10	0	0%	< 0.0001	0.044	↔	> -0.0001	0.826	↔	> -0.0001	0.907	↔	2023-09-18	2024-04-26	0.782	↔
18_5_114	MW-100C	Part 115	Iron	mg/l	10	0	0%	0.019714	0.000	↑	-0.006	0.028	↔	> -0.0001	0.549	↔	2023-07-17	2023-10-07	0.978	↔
18_5_129	MW-100C	Part 115	Zinc	mg/l	10	8	80%	< 0.0001	0.344	↔	> -0.0001	0.719	↔	> -0.0001	0.418	↔	2023-11-03	2024-01-22	0.547	↔
19_2_105	MW-100D	Appendix III	Boron	mg/l	10	0	0%	-0.00038367	0.599	↔	-0.01	0.066	↔	0.0044505	0.004	↑	2023-12-23	2024-06-07	0.981	↔
19_2_107	MW-100D	Appendix III	Calcium	mg/l	10	0	0%	-0.012261	0.002	↓	0.42686	0.000	↑	-0.19505	0.000	↓	2024-01-02	2024-06-01	1.000	↔
19_2_112	MW-100D	Appendix III	Fluoride	mg/l	10	5	50%	< 0.0001	1.000	↔	-0.0058722	0.013	↔	0.0024725	0.044	↔	2023-10-03	2024-03-14	0.938	↔
19_3_113	MW-100D	Appendix IV	Fluoride (App IV)	mg/l	10	5	50%	< 0.0001	1.000	↔	-0.0058722	0.013	↔	0.0024725	0.044	↔	2023-10-03	2024-03-14	0.938	↔
19_3_116	MW-100D	Appendix IV	Lithium	mg/l	10	0	0%	-0.00043088	0.001	↓	< 0.0001	0.255	↔	> -0.0001	0.366	↔	2023-07-10	2024-02-06	0.965	↔
19_3_118	MW-100D	Appendix IV	Molybdenum	mg/l	10	1	10%	0.00014523	0.001	↑	> -0.0001	0.012	↔	> -0.0001	0.015	↔	2023-07-26	2023-11-21	0.982	↔

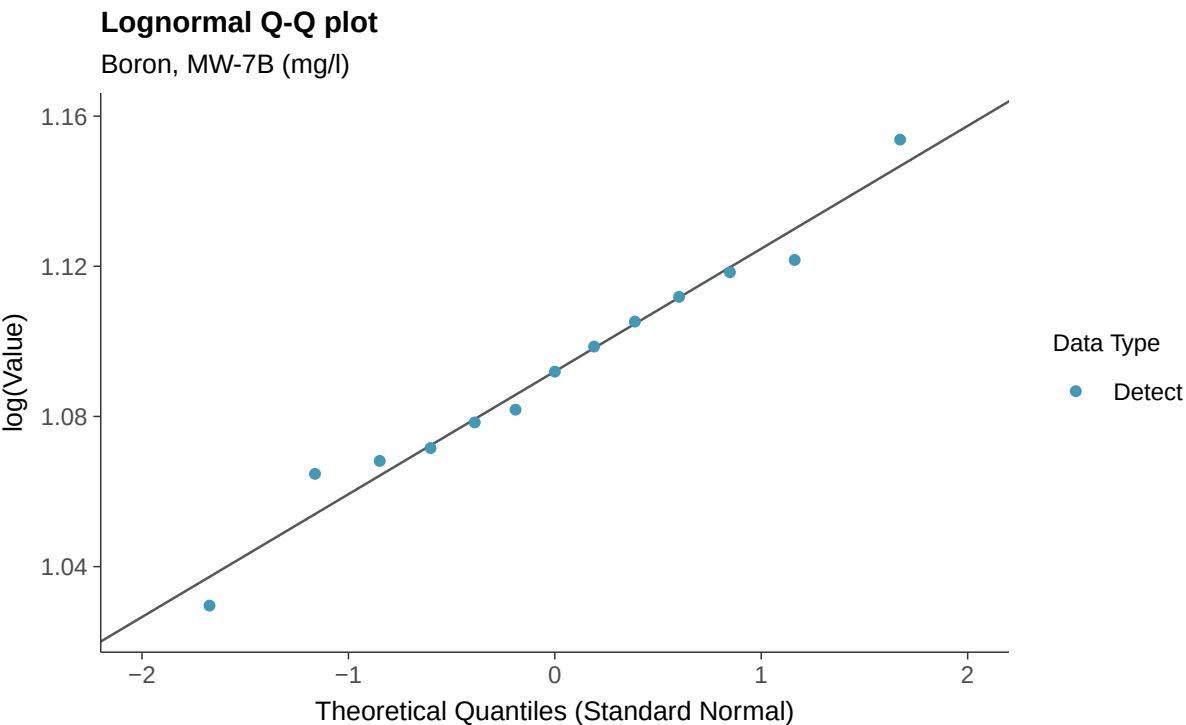
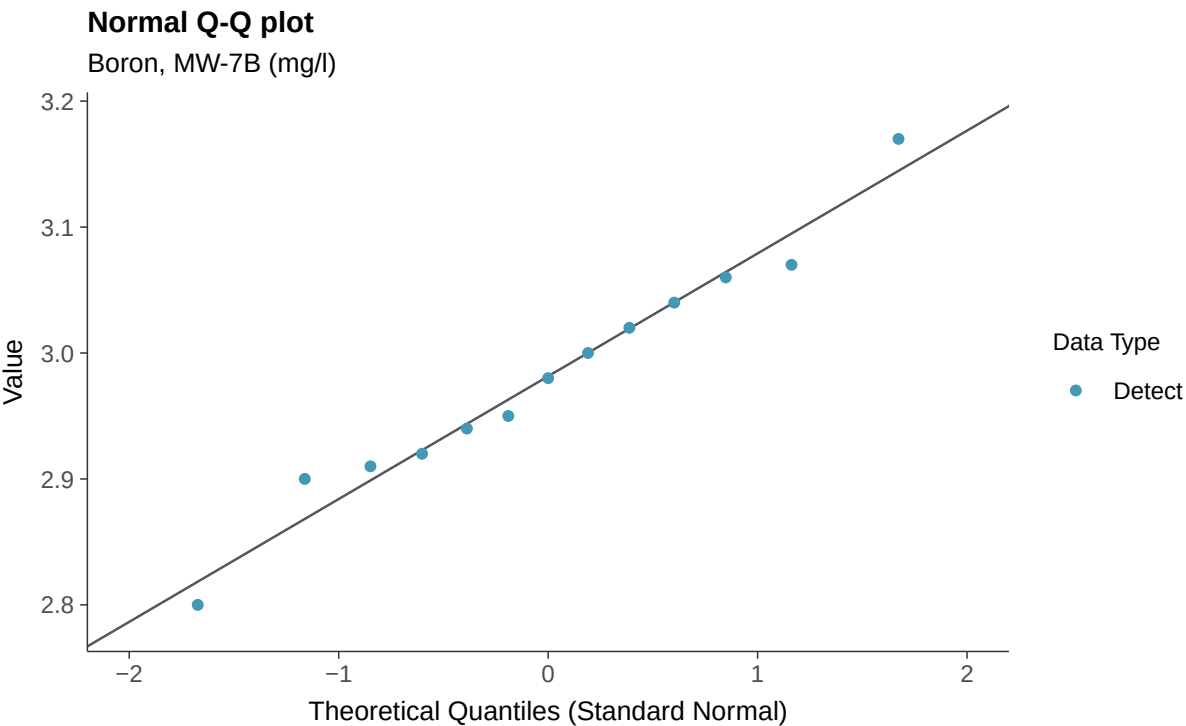


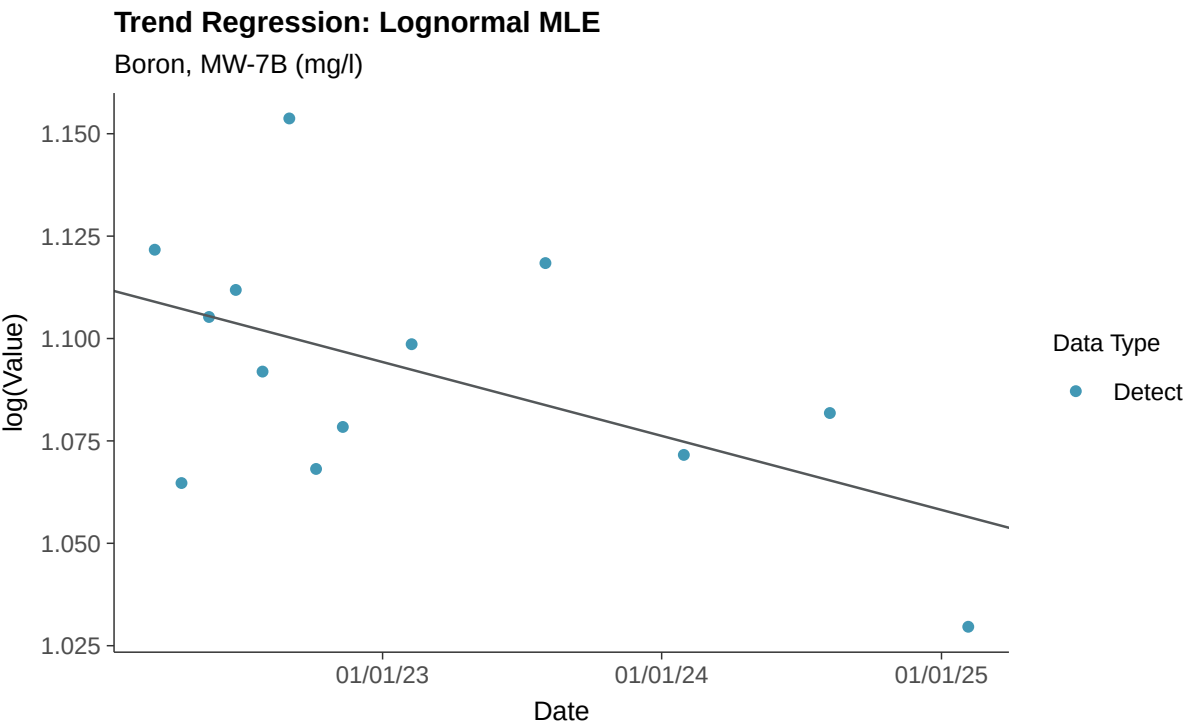
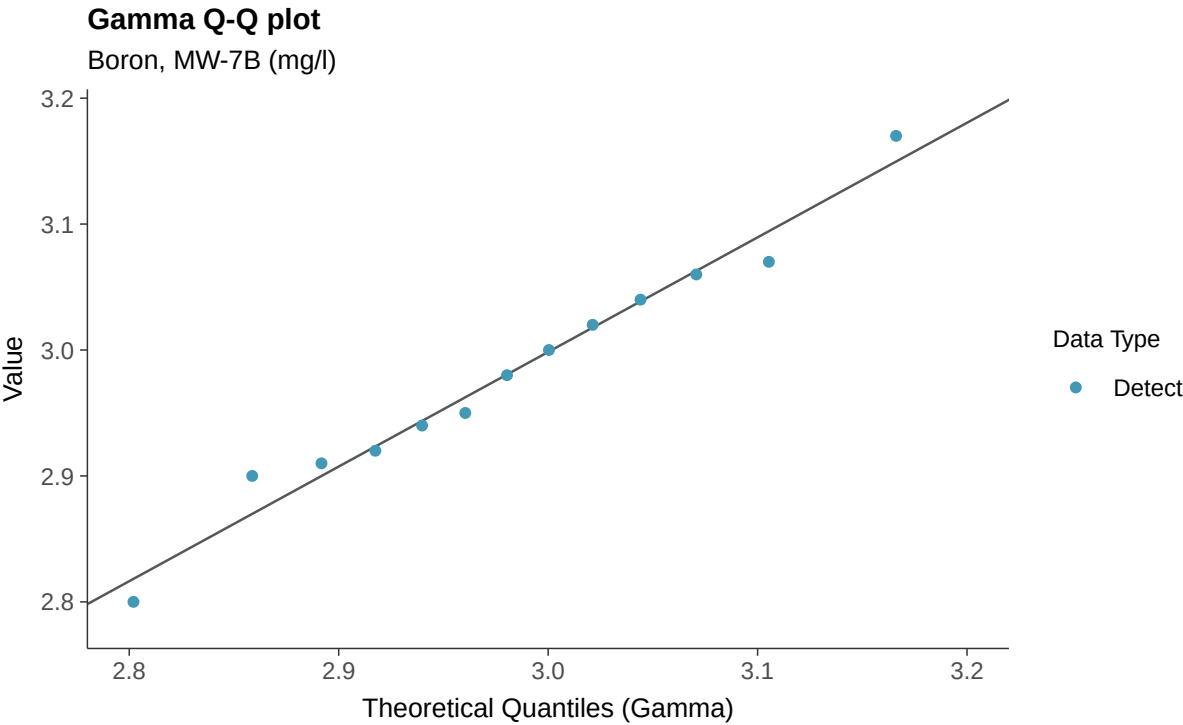
Appendix III: Boron, MW-7B

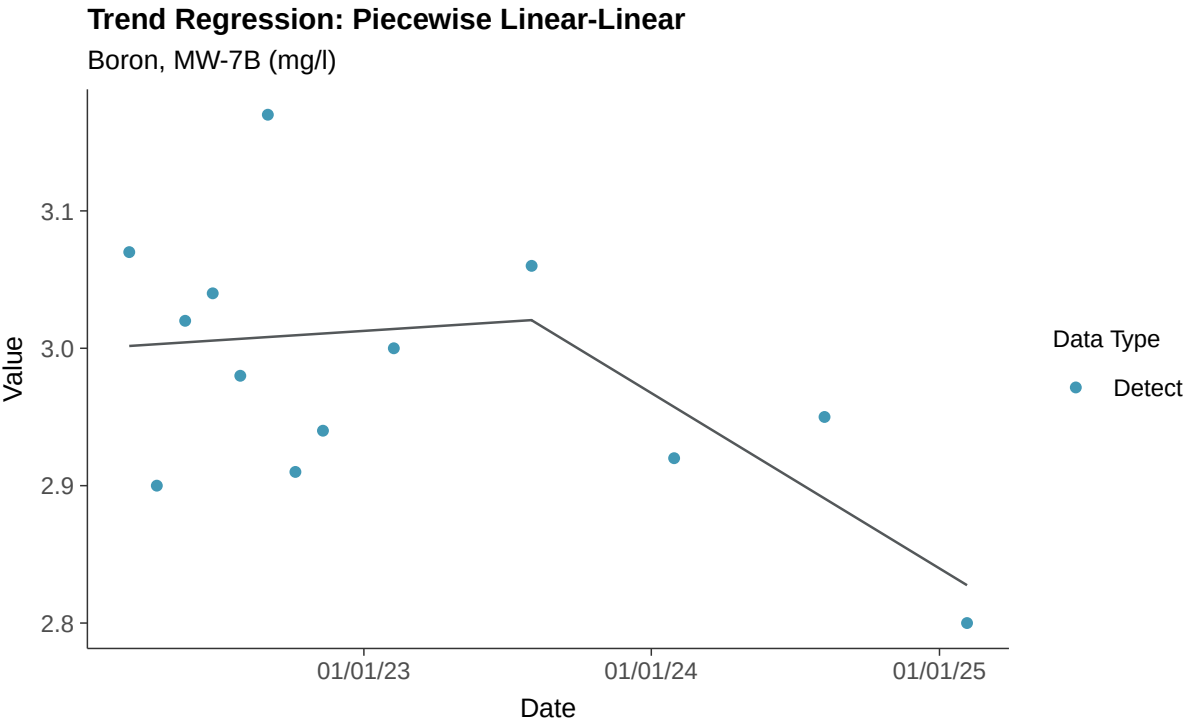
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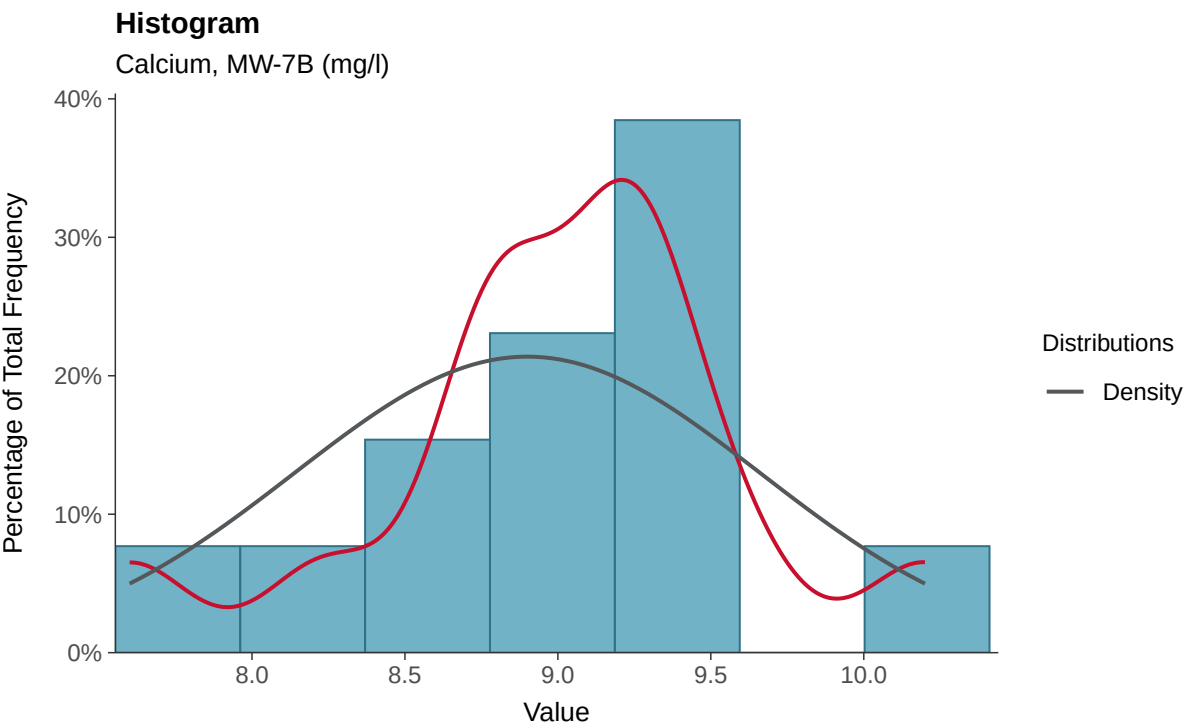
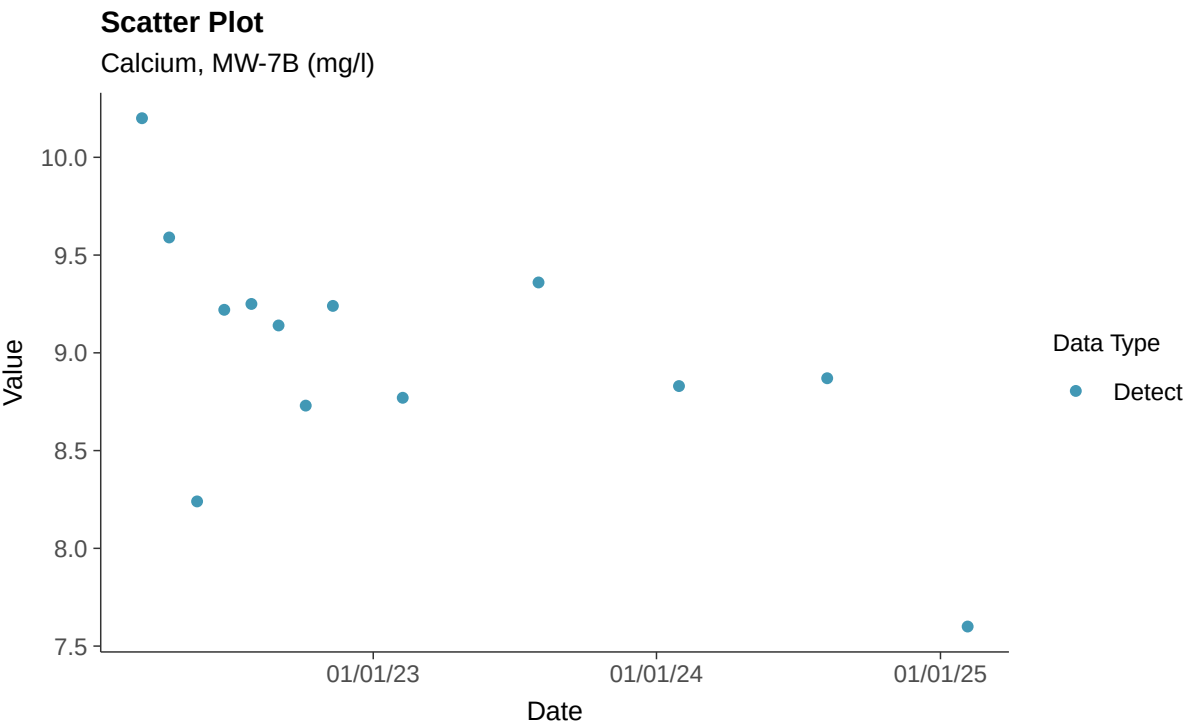


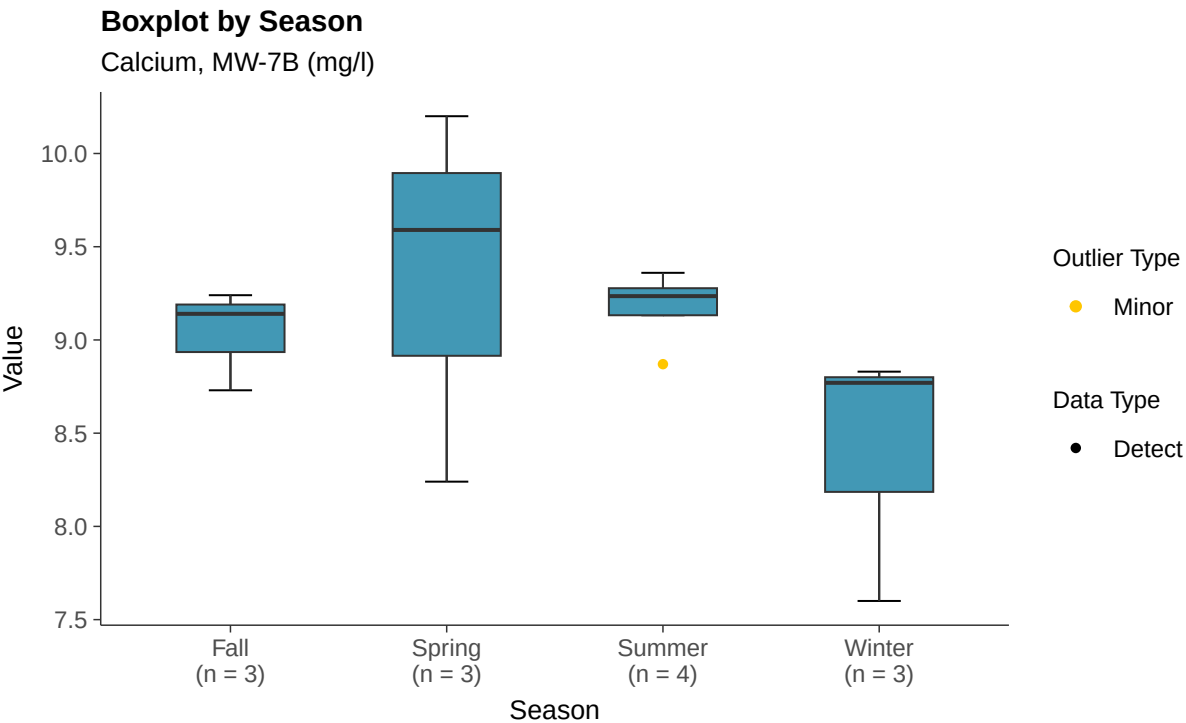
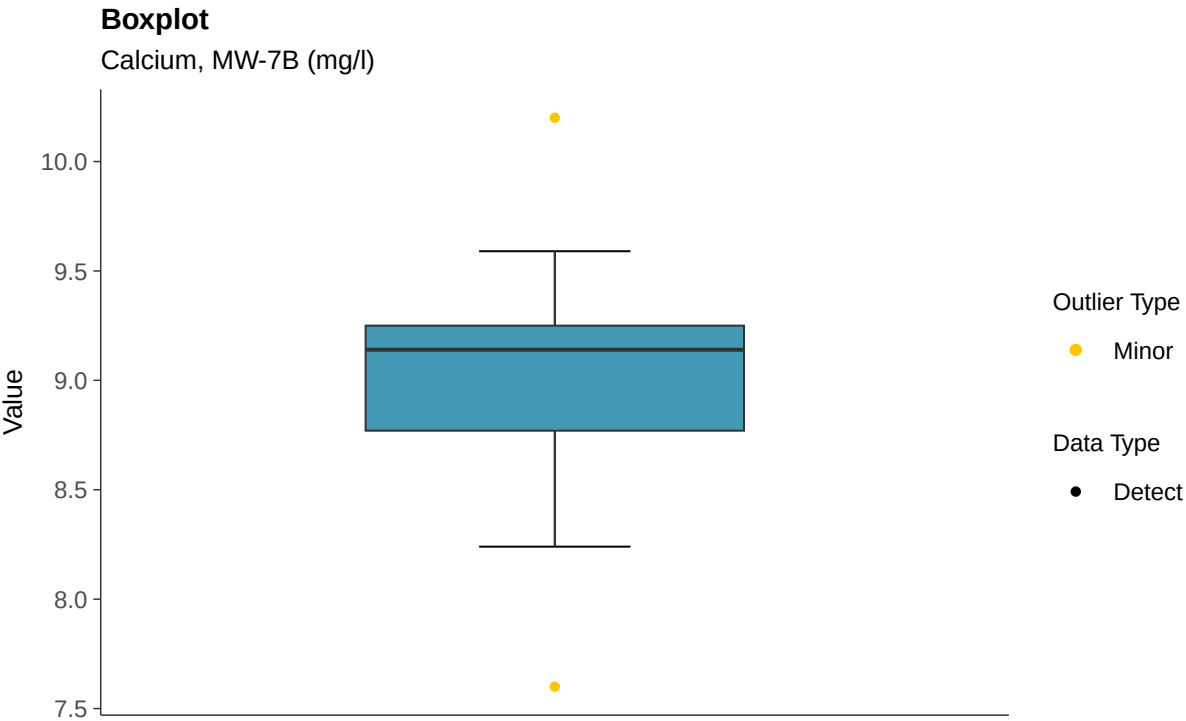


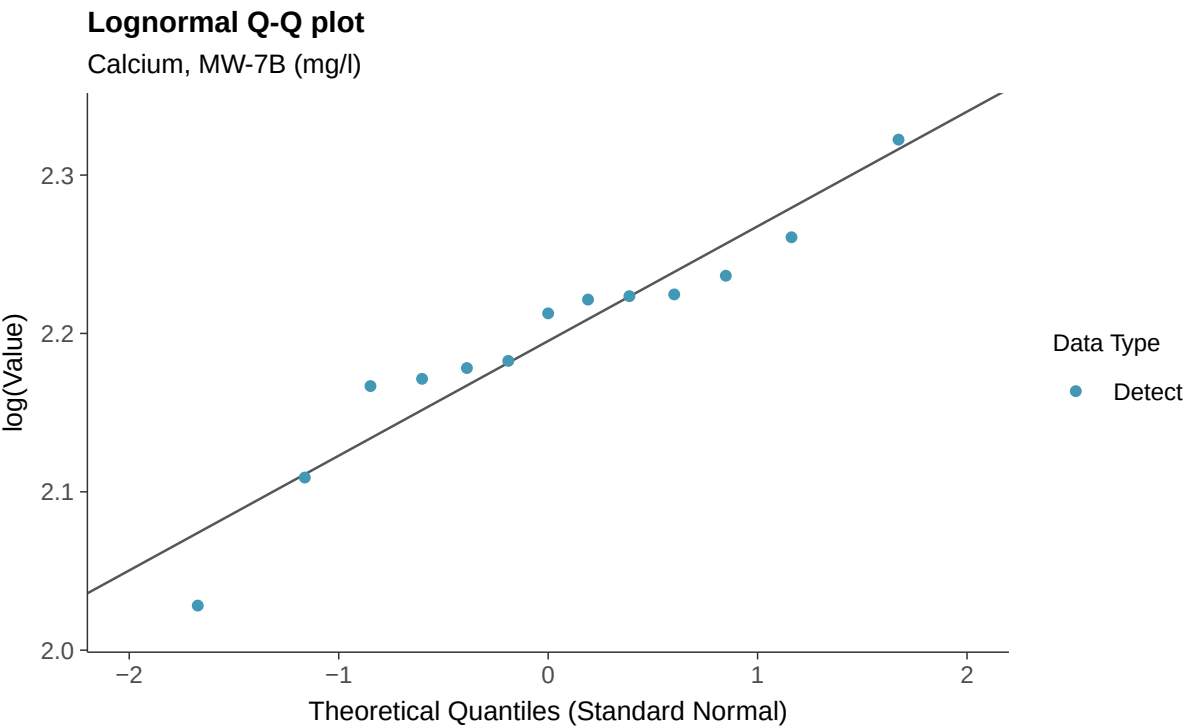
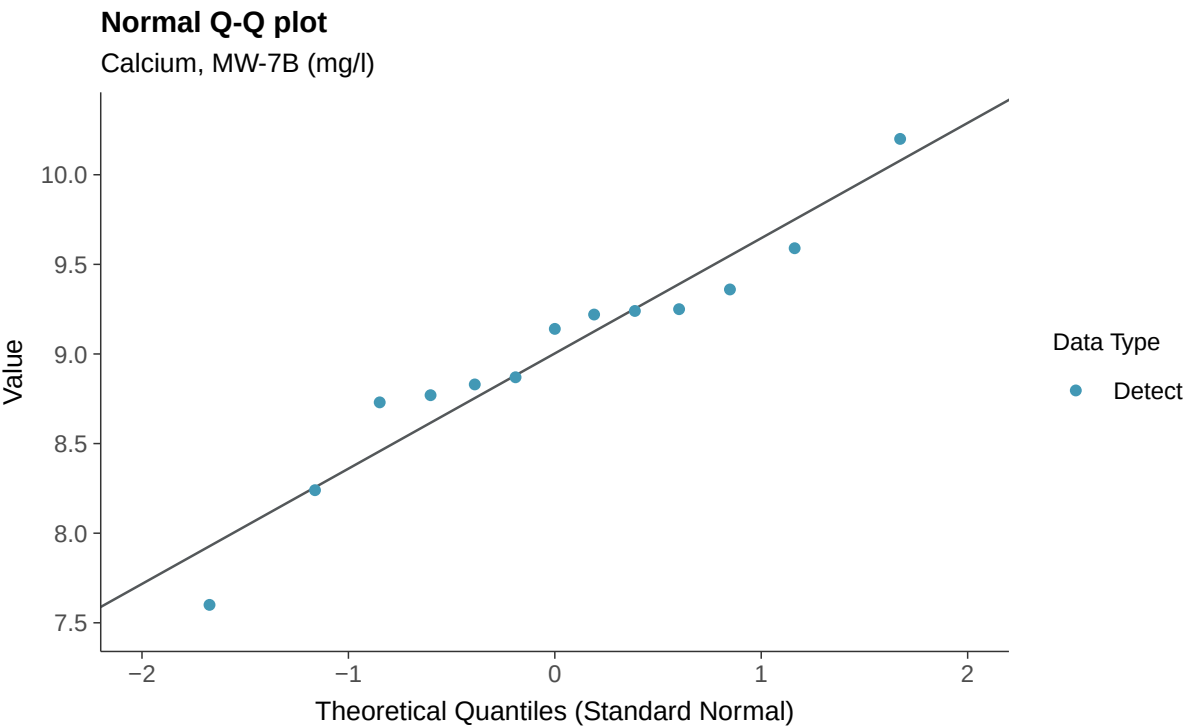


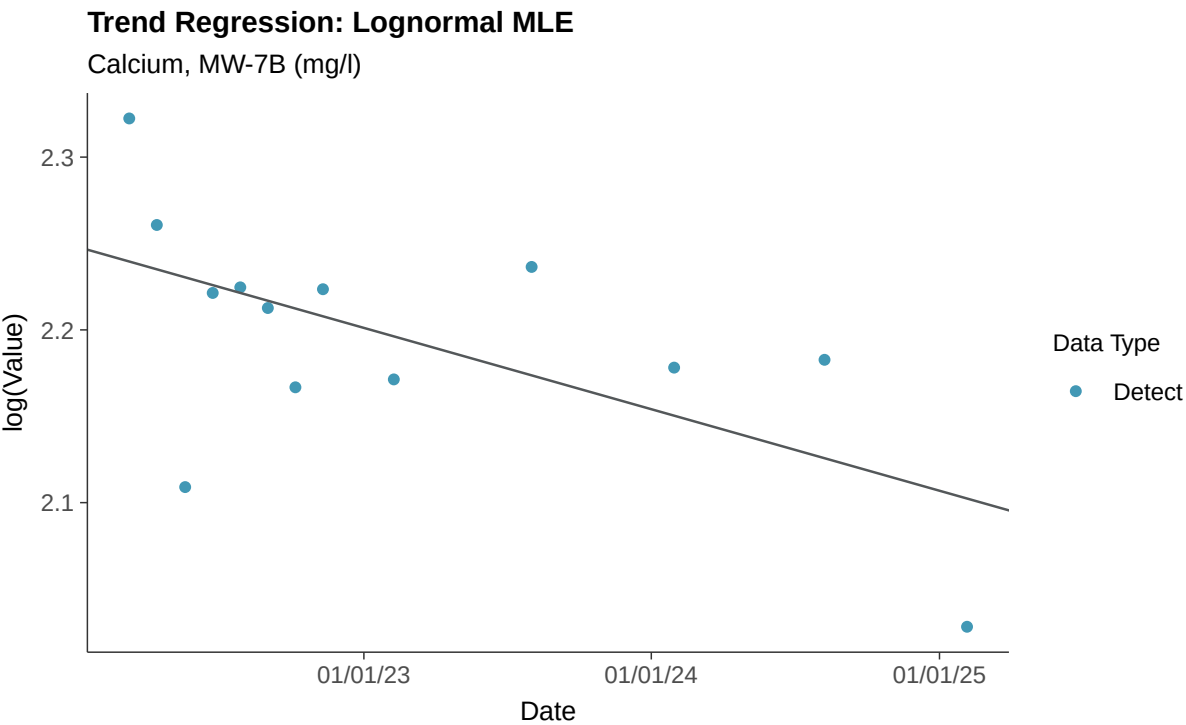
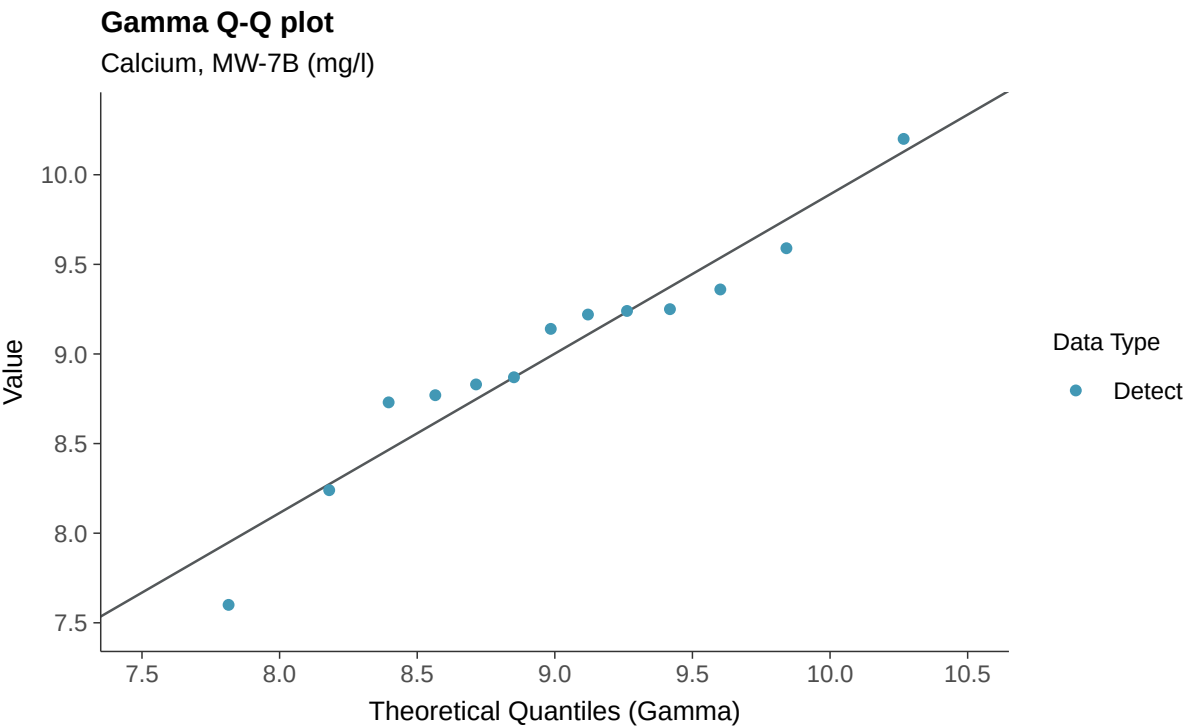
Appendix III: Calcium, MW-7B

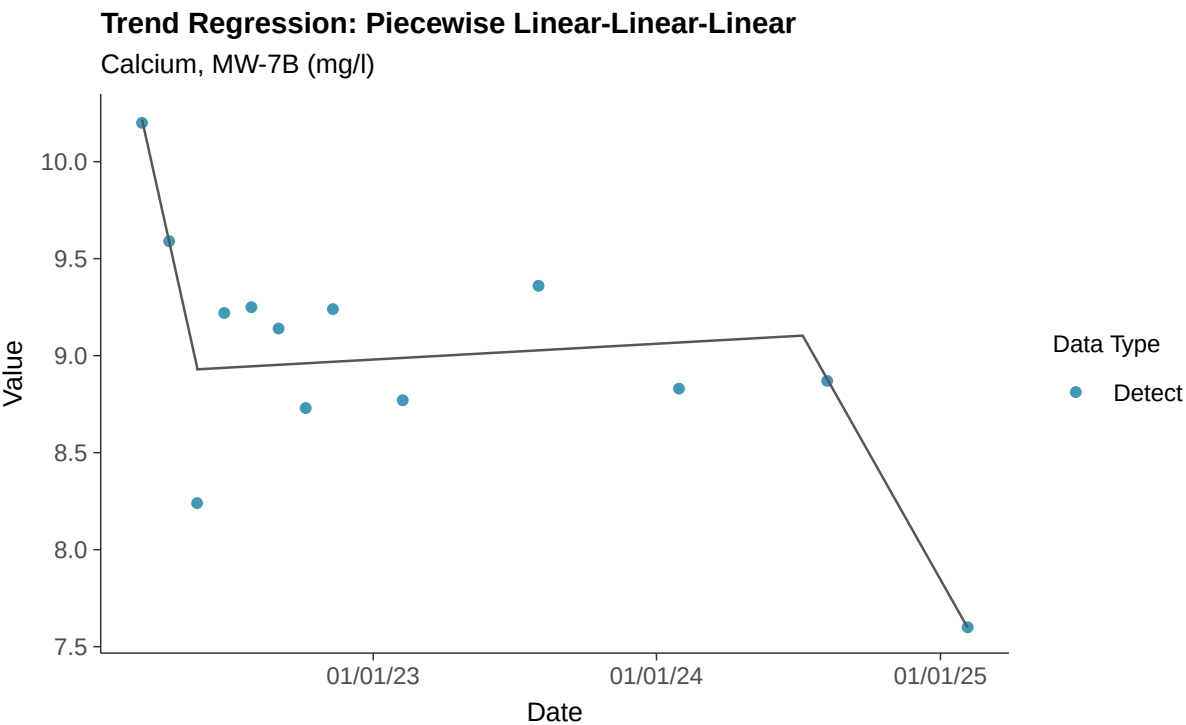
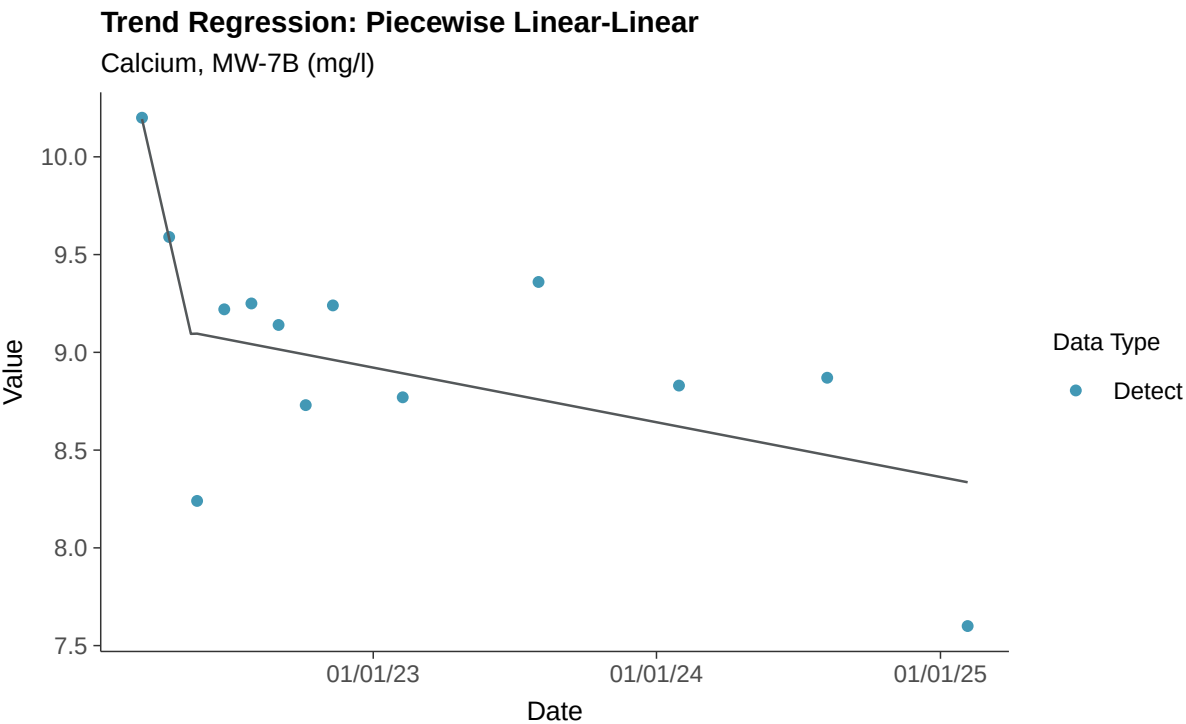
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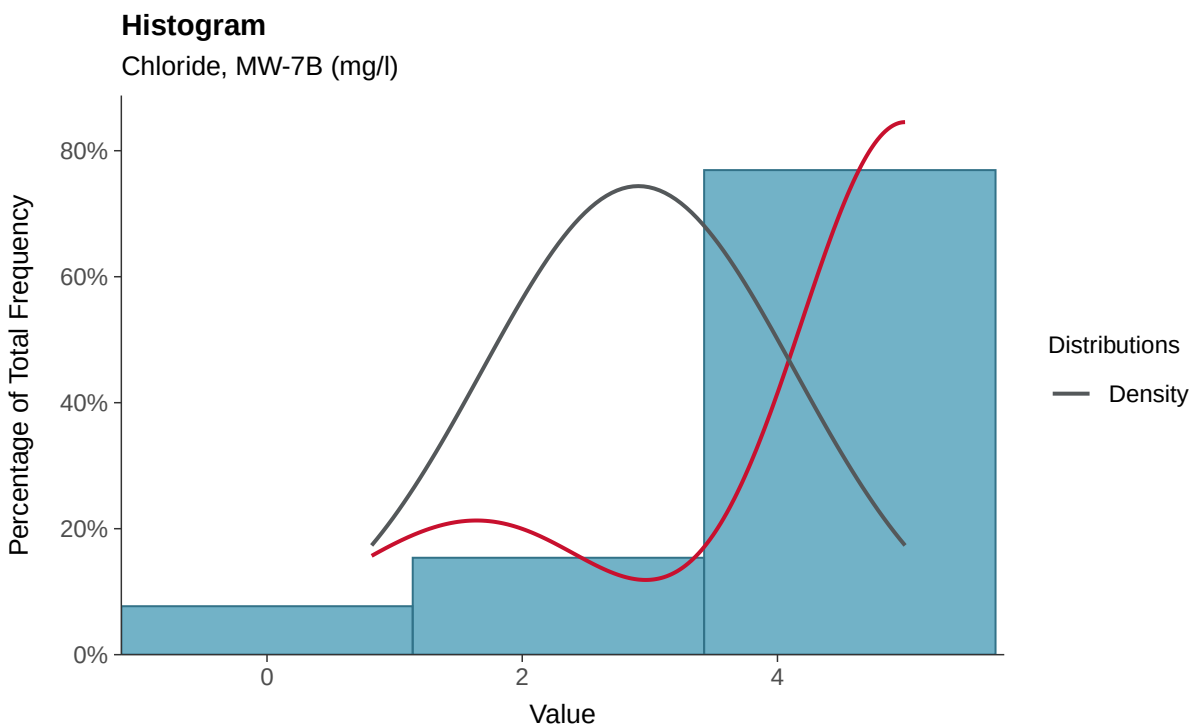
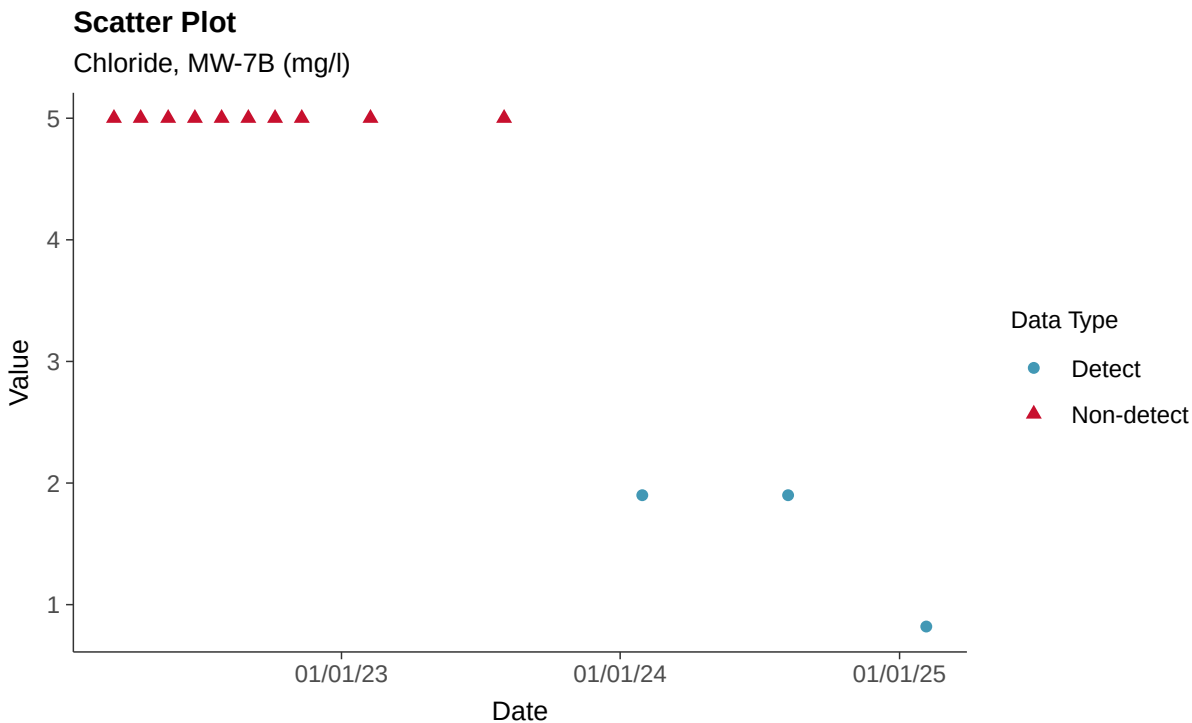


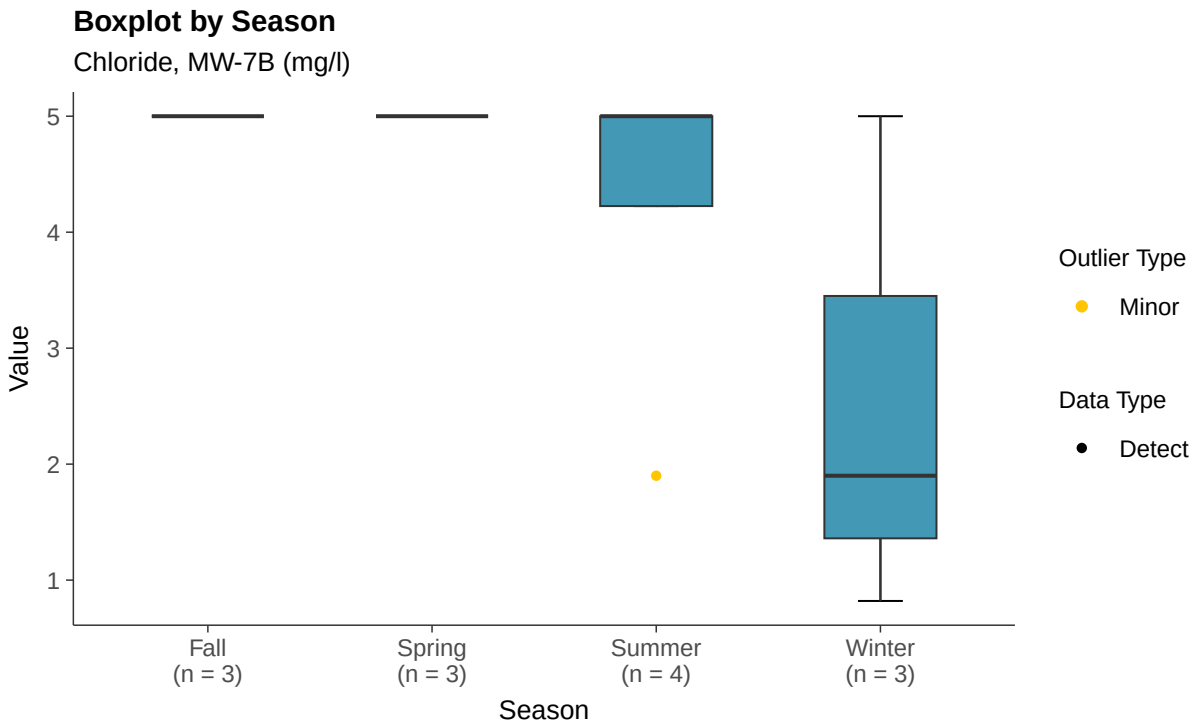
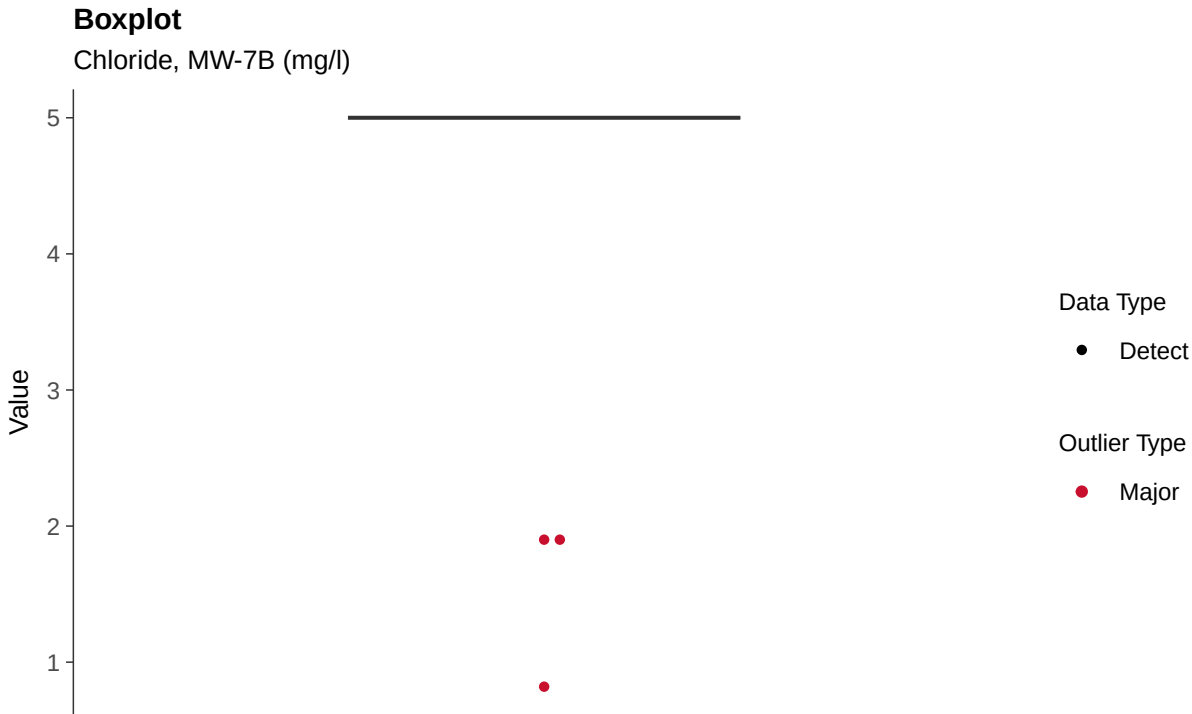




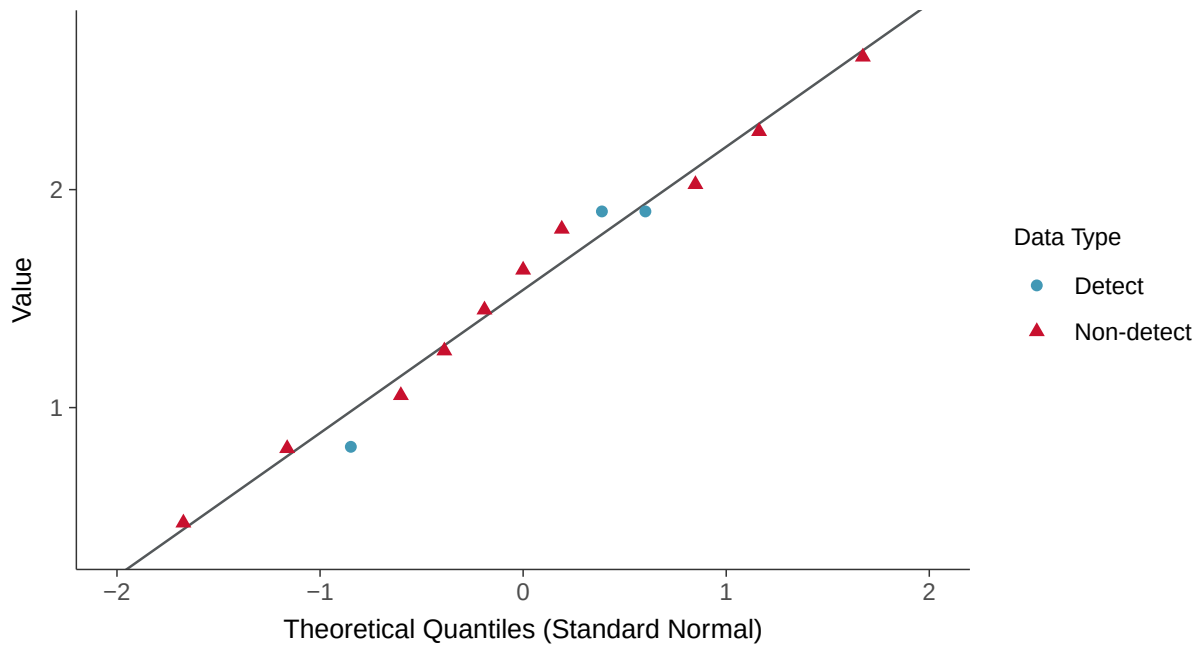
Appendix III: Chloride, MW-7B

ID: 11_2_108

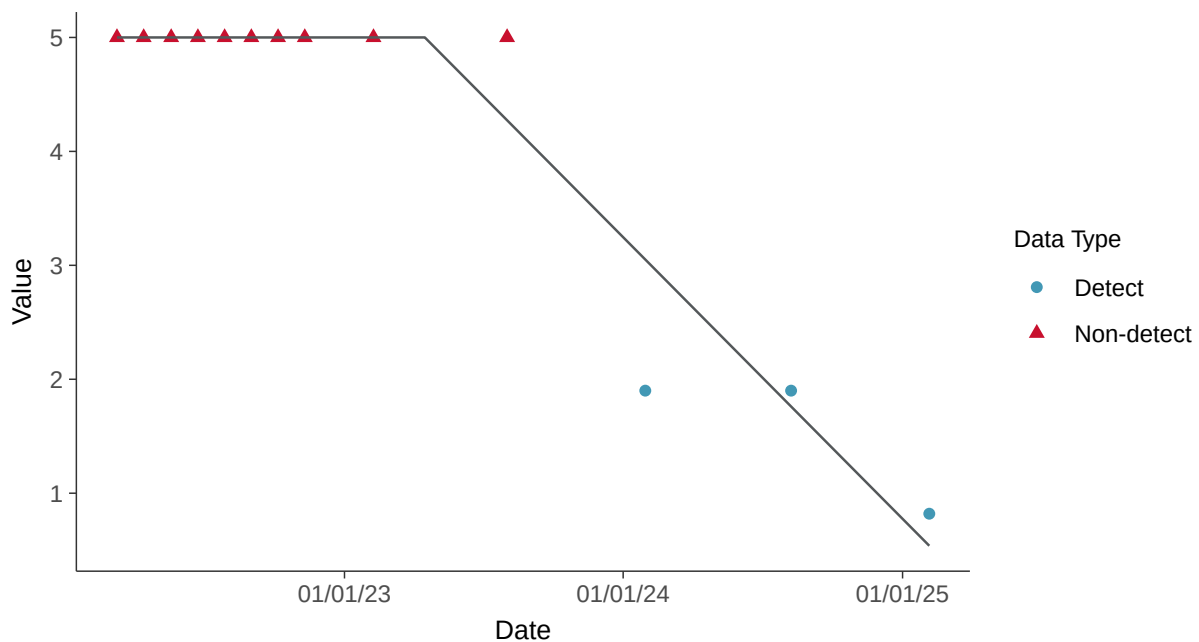




Chloride, MW-7B (mg/l)



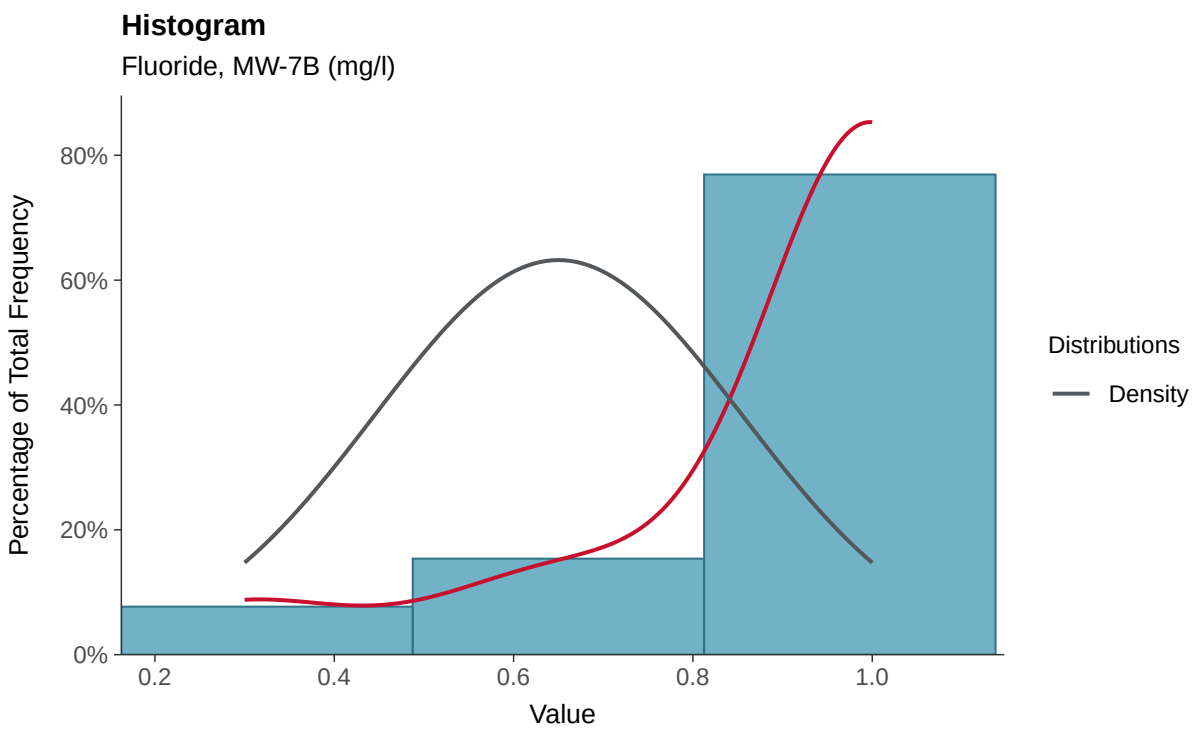
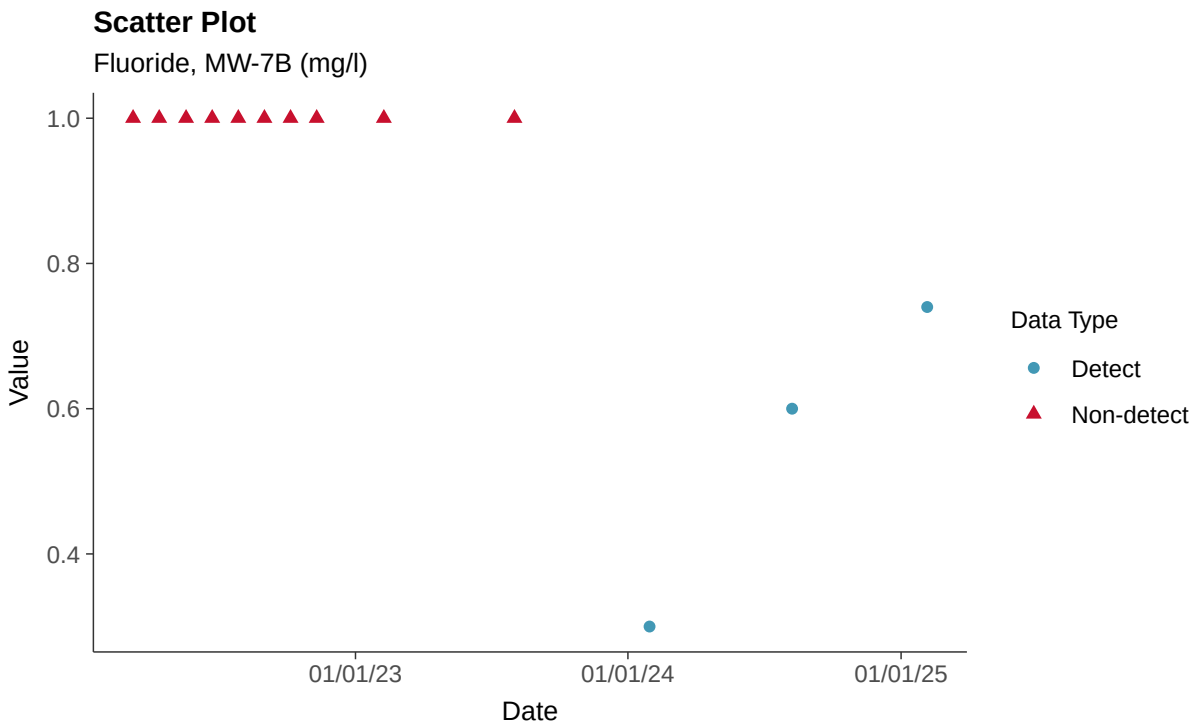
Chloride, MW-7B (mg/l)

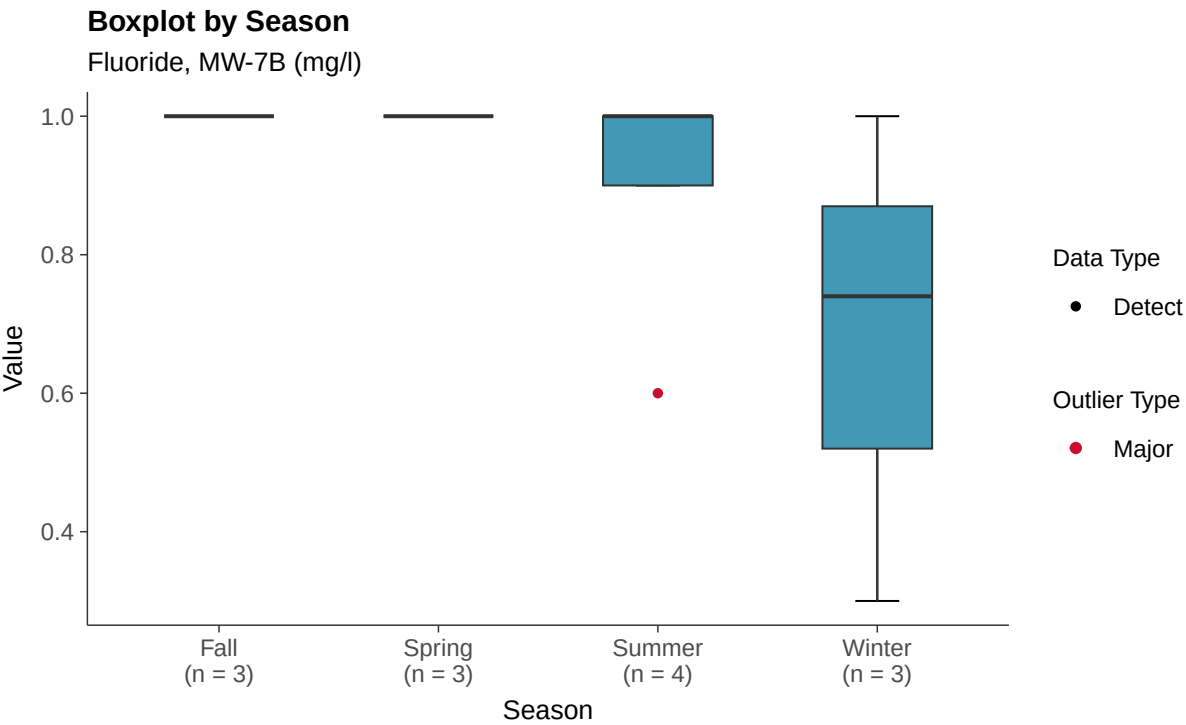
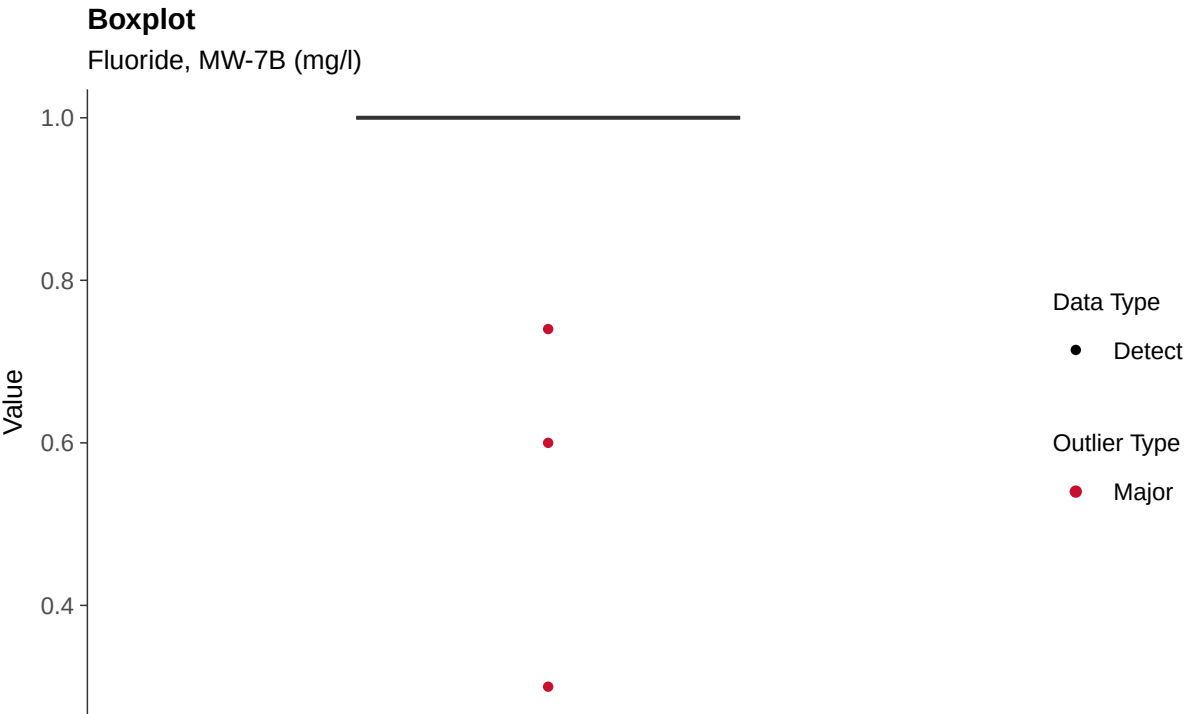




Appendix III: Fluoride, MW-7B

ID: 11_2_112

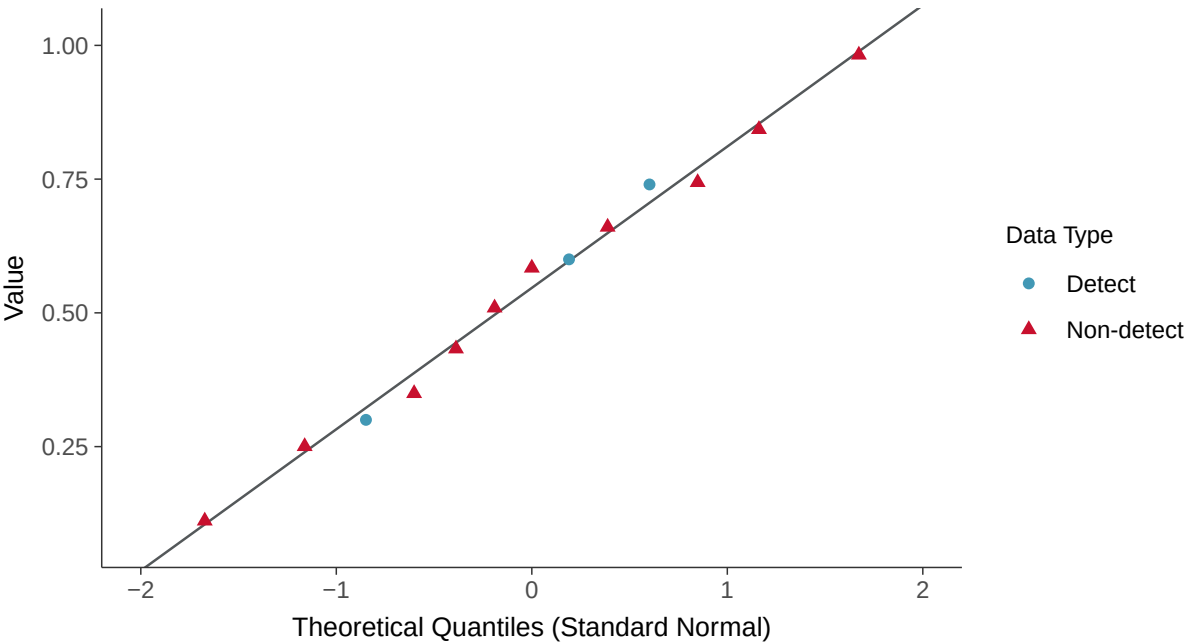






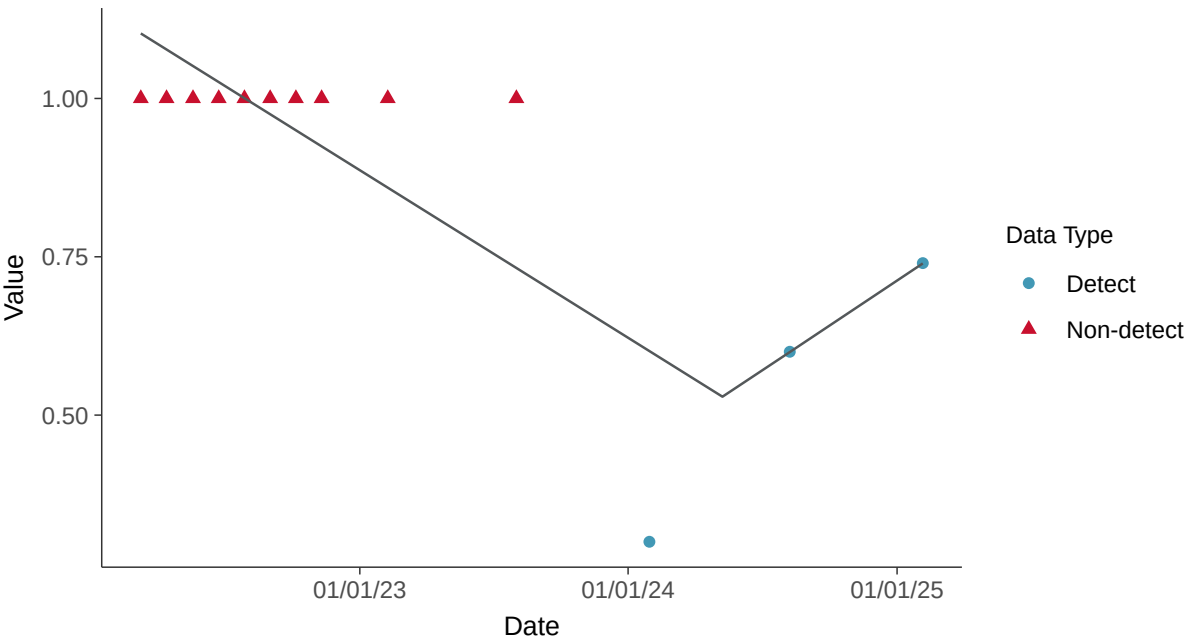
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-7B (mg/l)



Trend Regression: Piecewise Linear-Linear

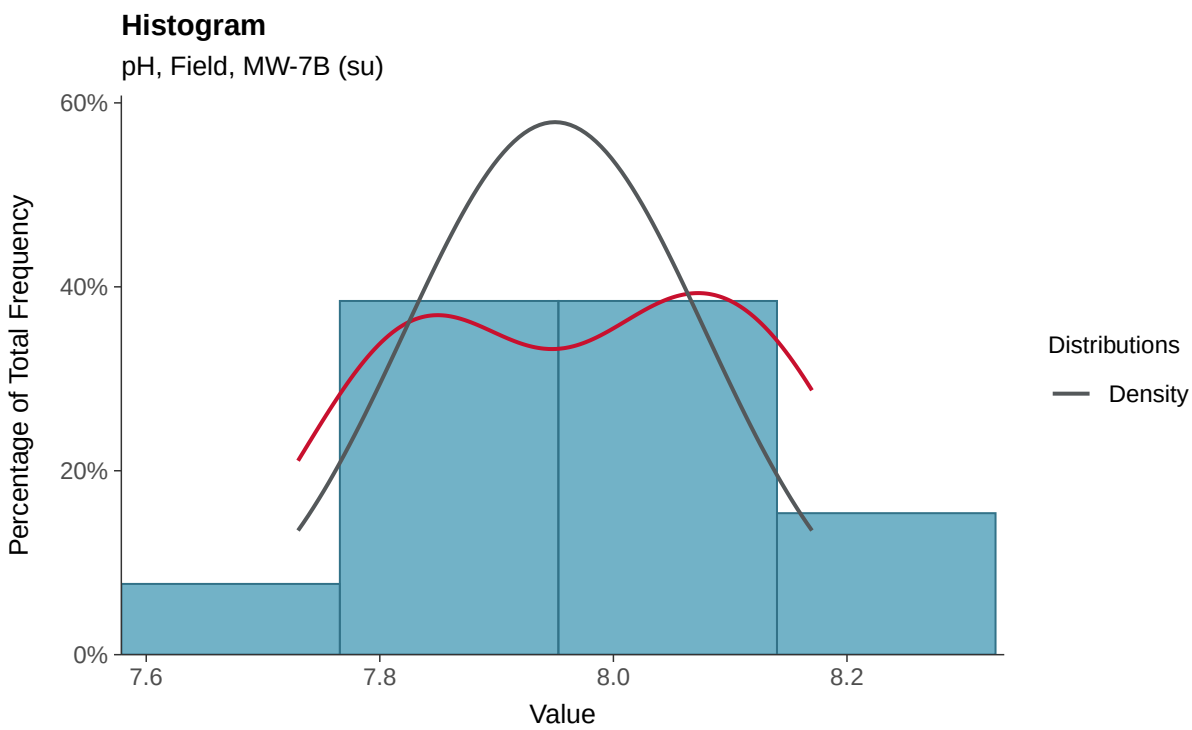
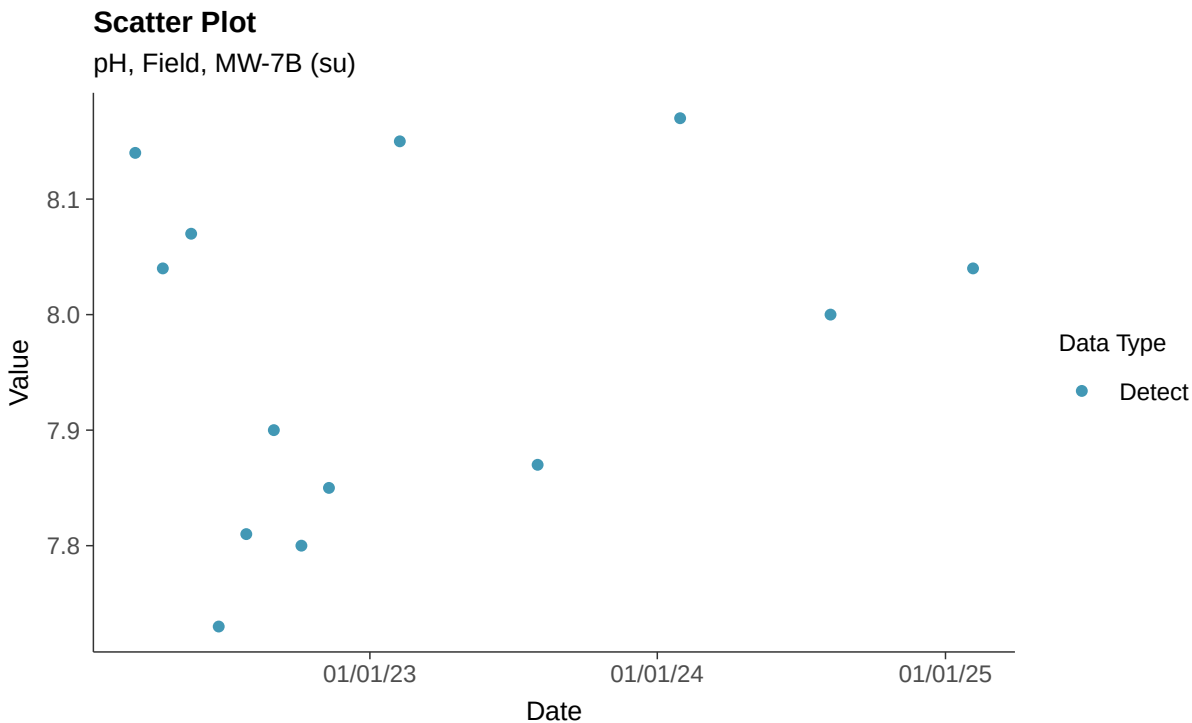
Fluoride, MW-7B (mg/l)

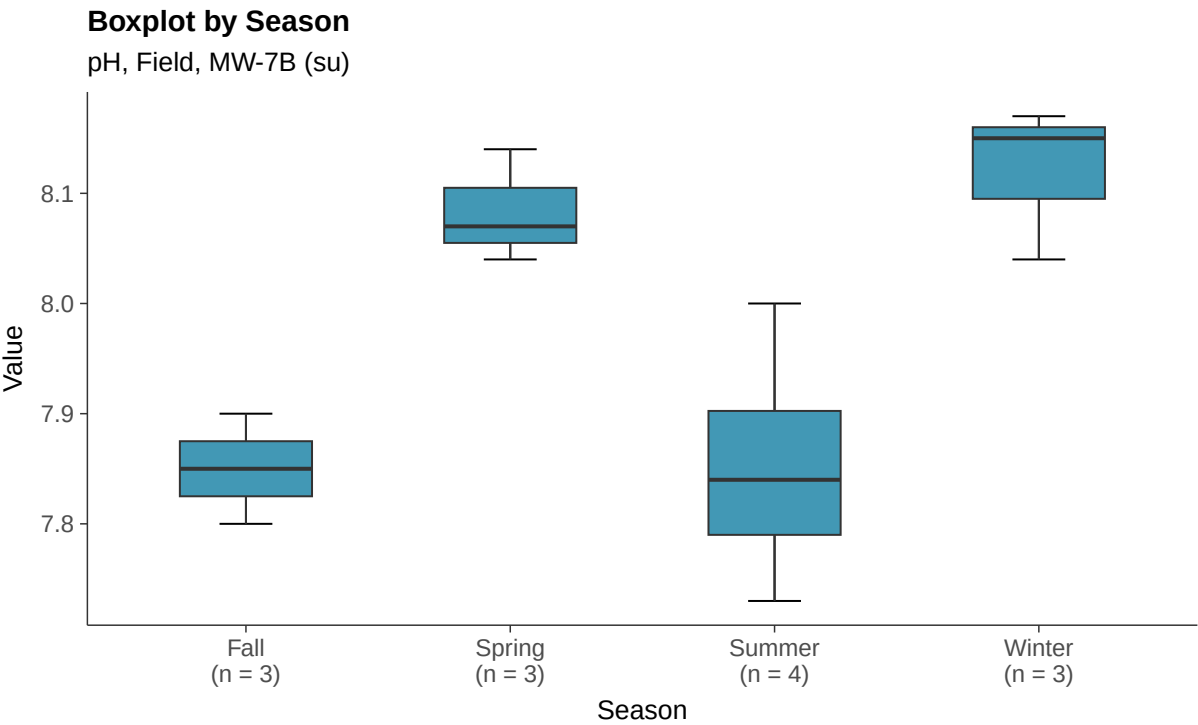
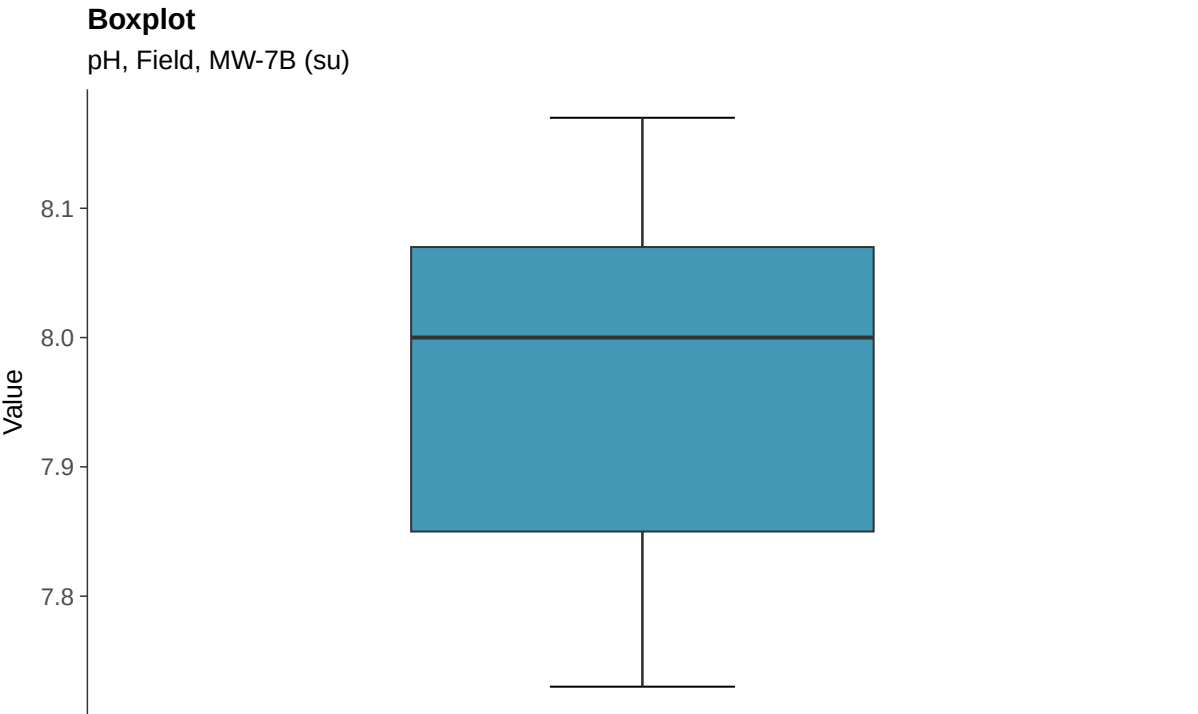


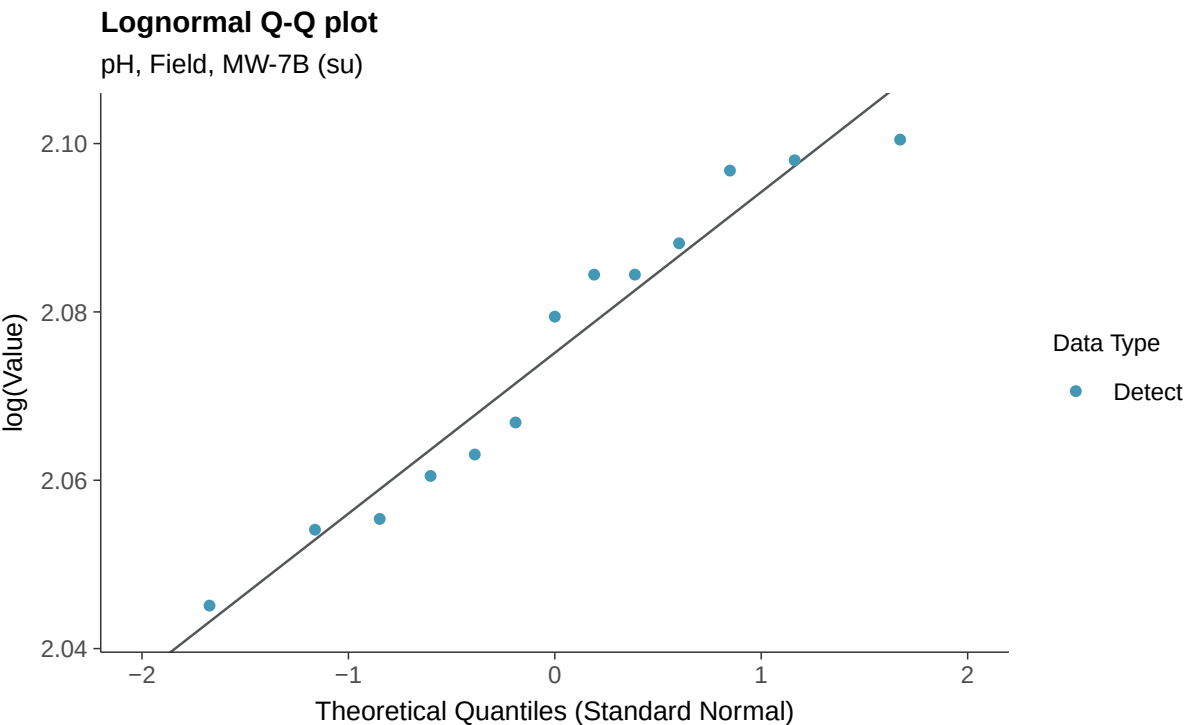
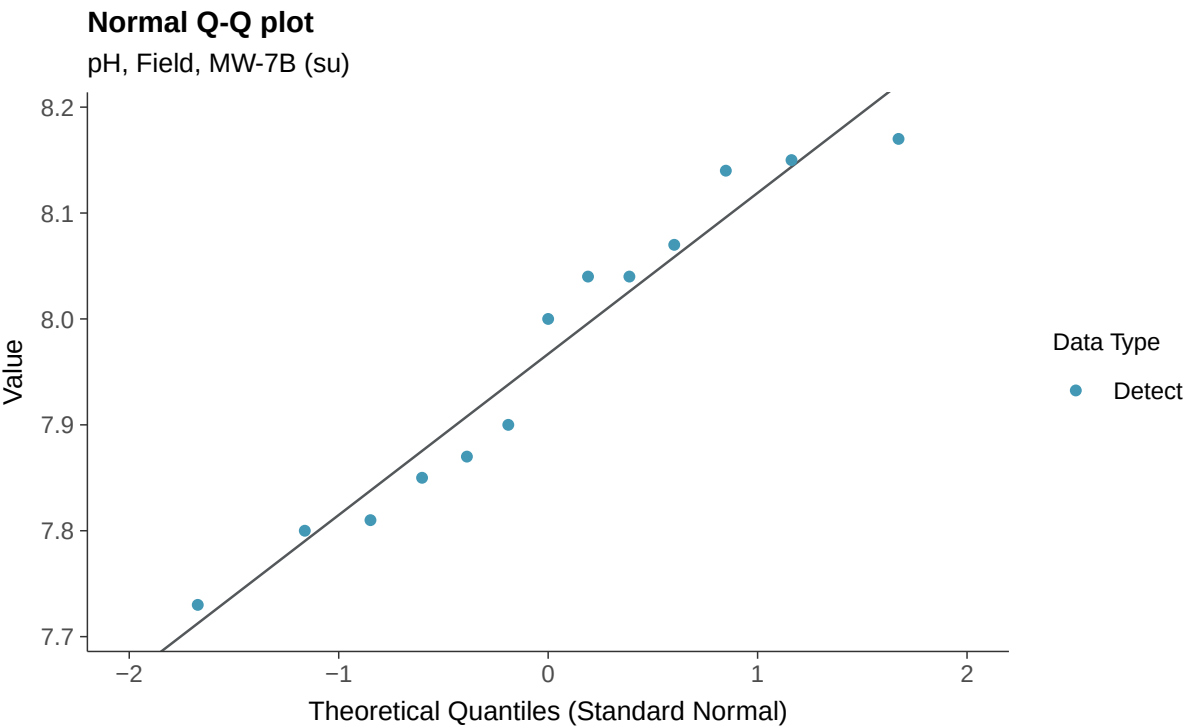


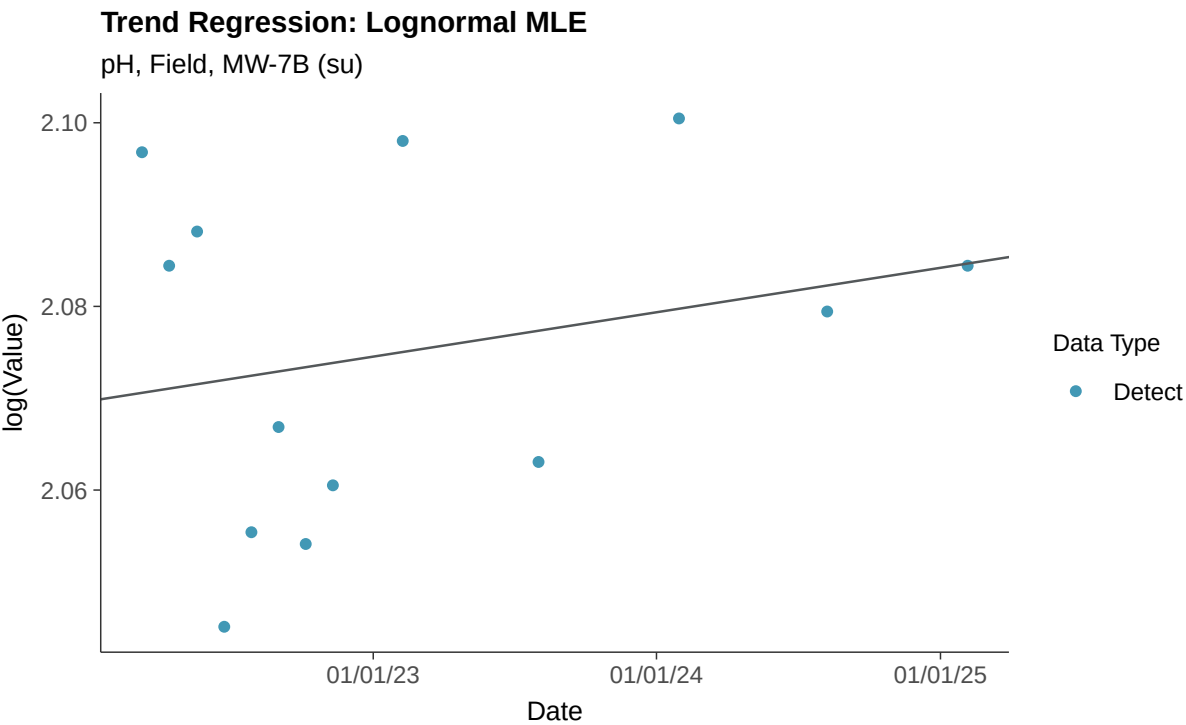
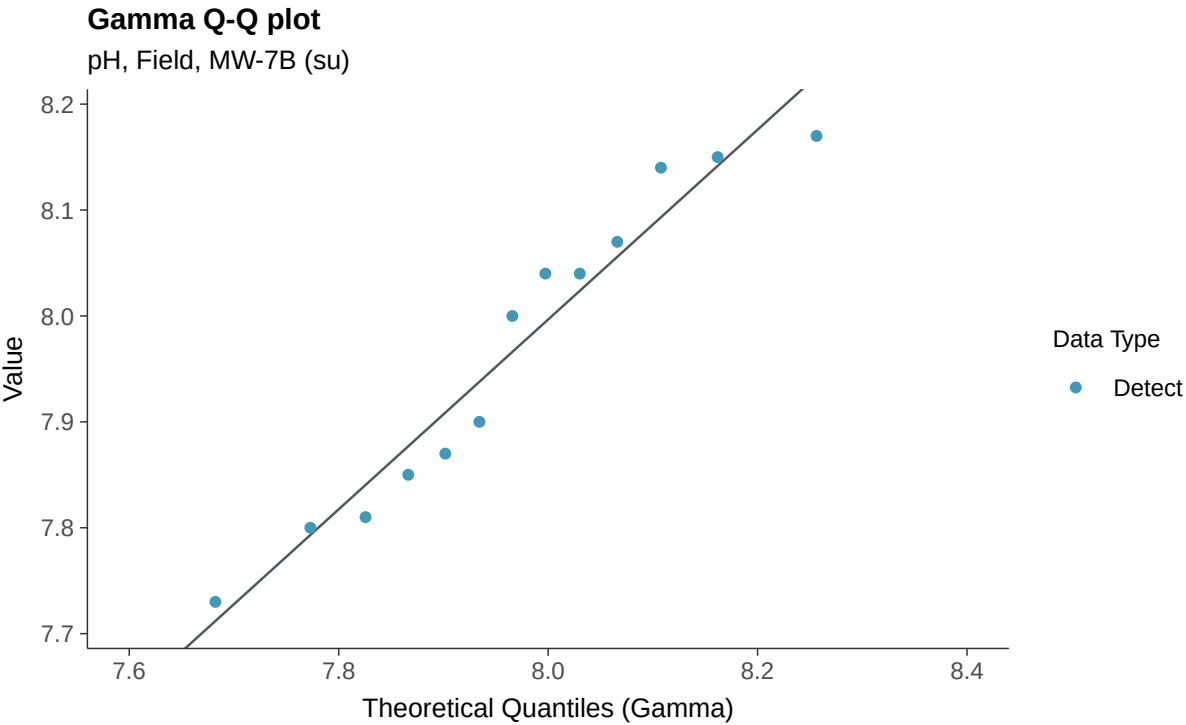
Appendix III: pH, Field, MW-7B

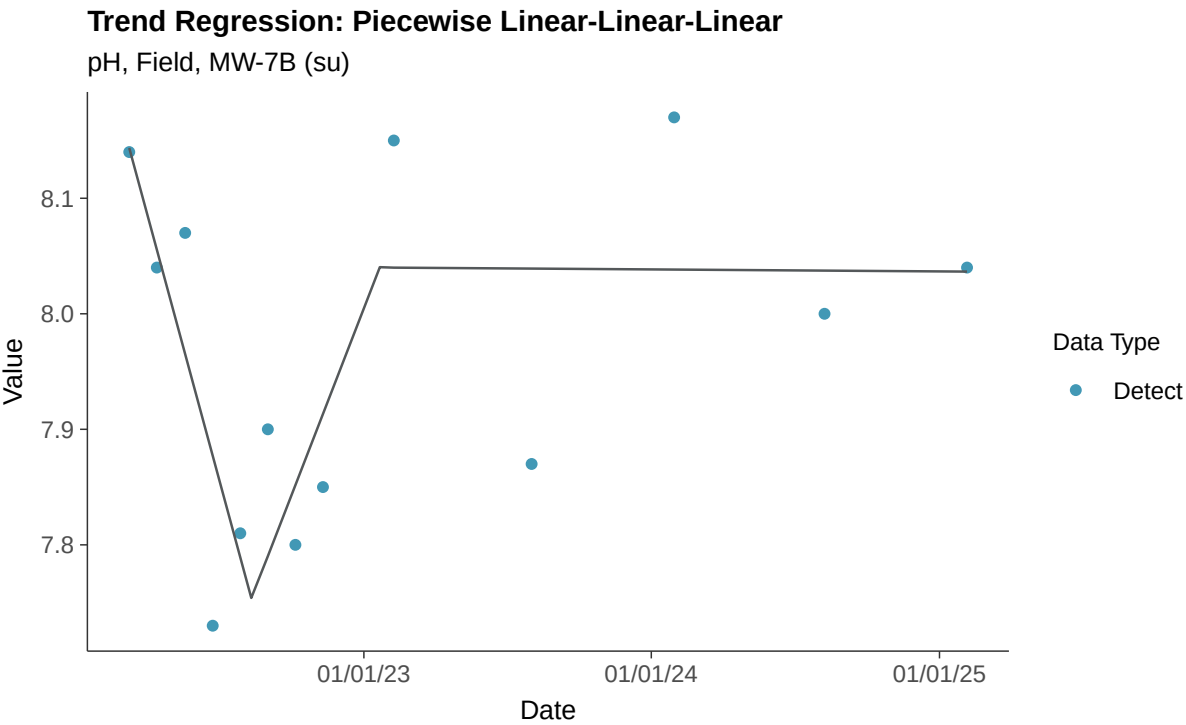
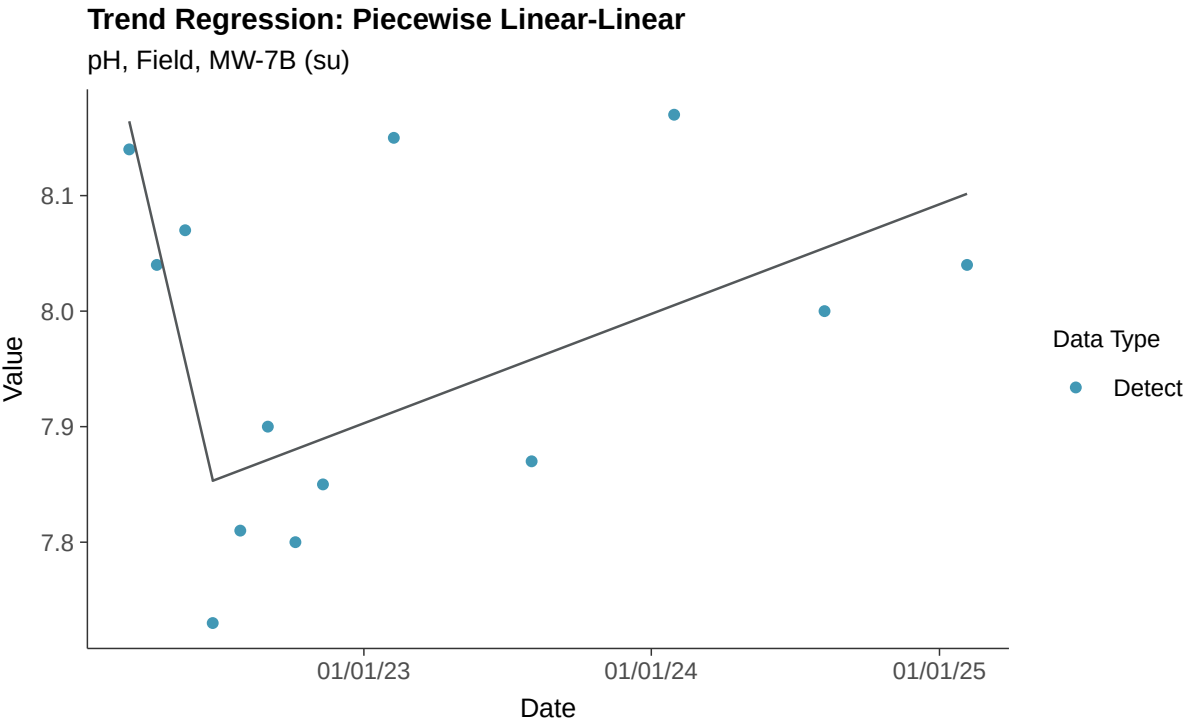
ID: 11_2_120







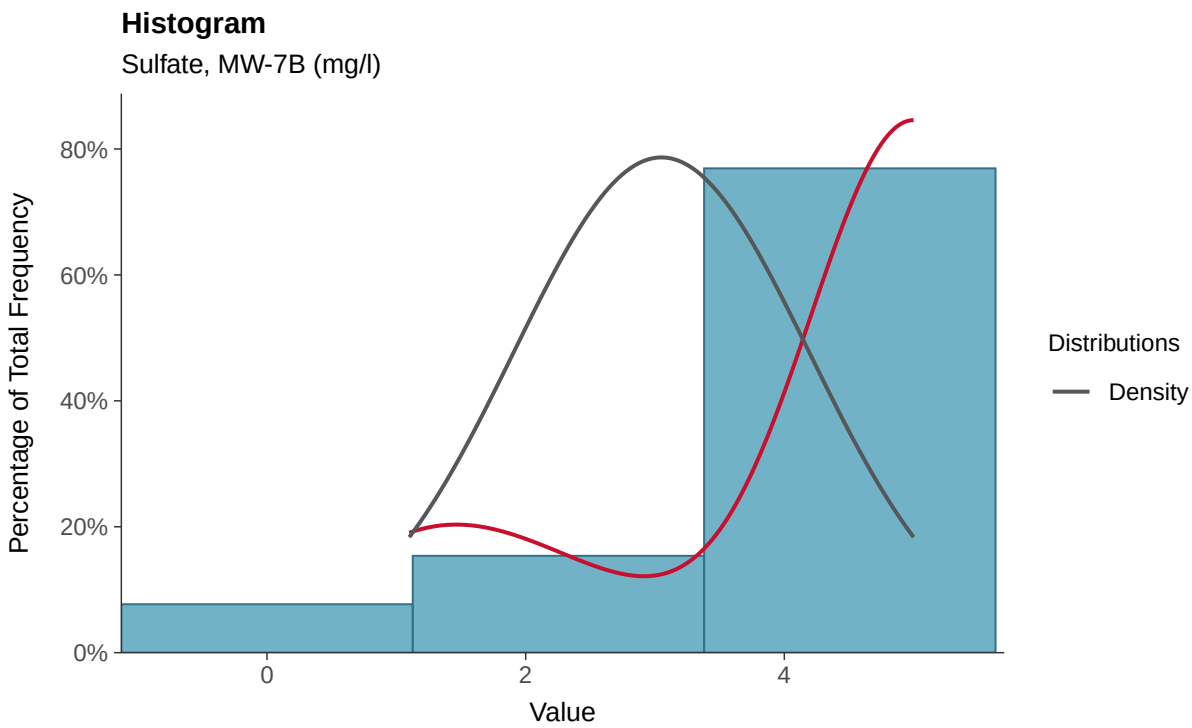
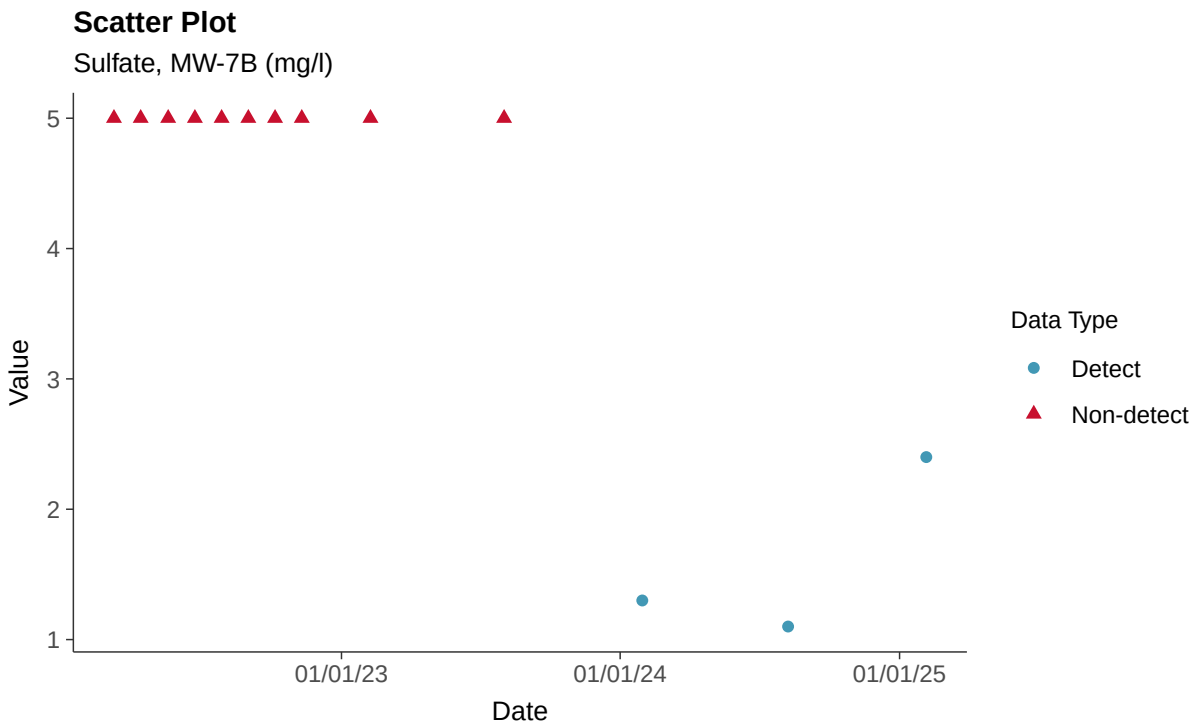


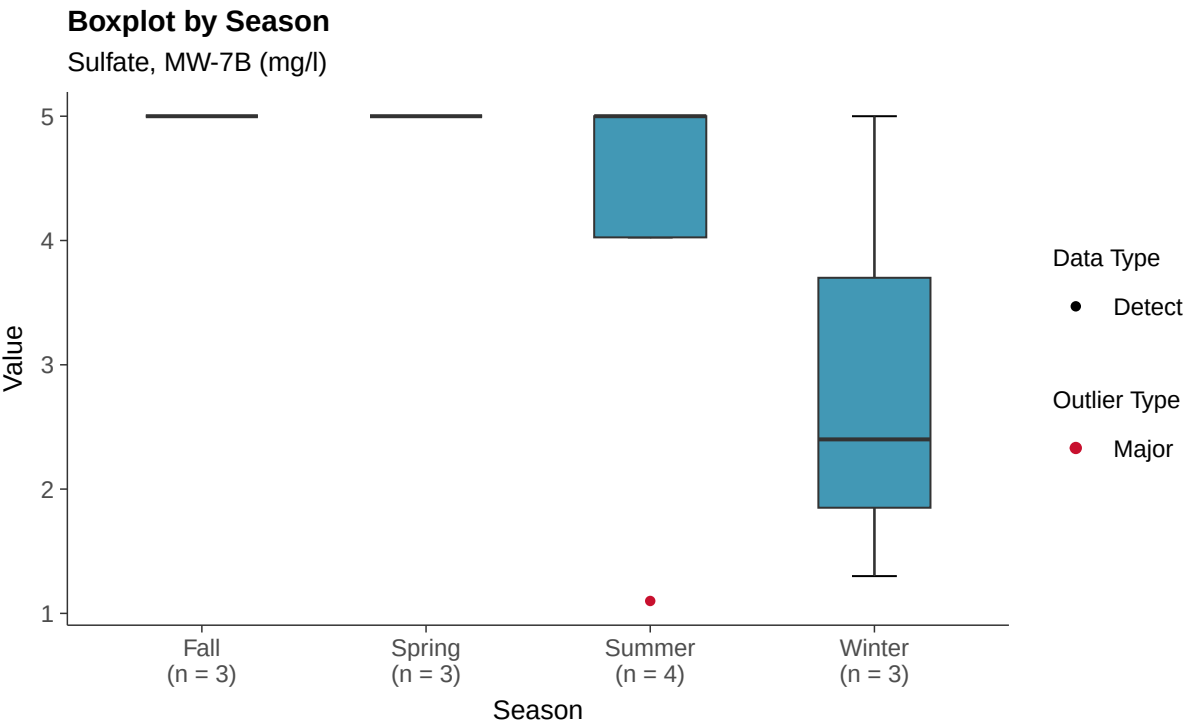




Appendix III: Sulfate, MW-7B

ID: 11_2_124

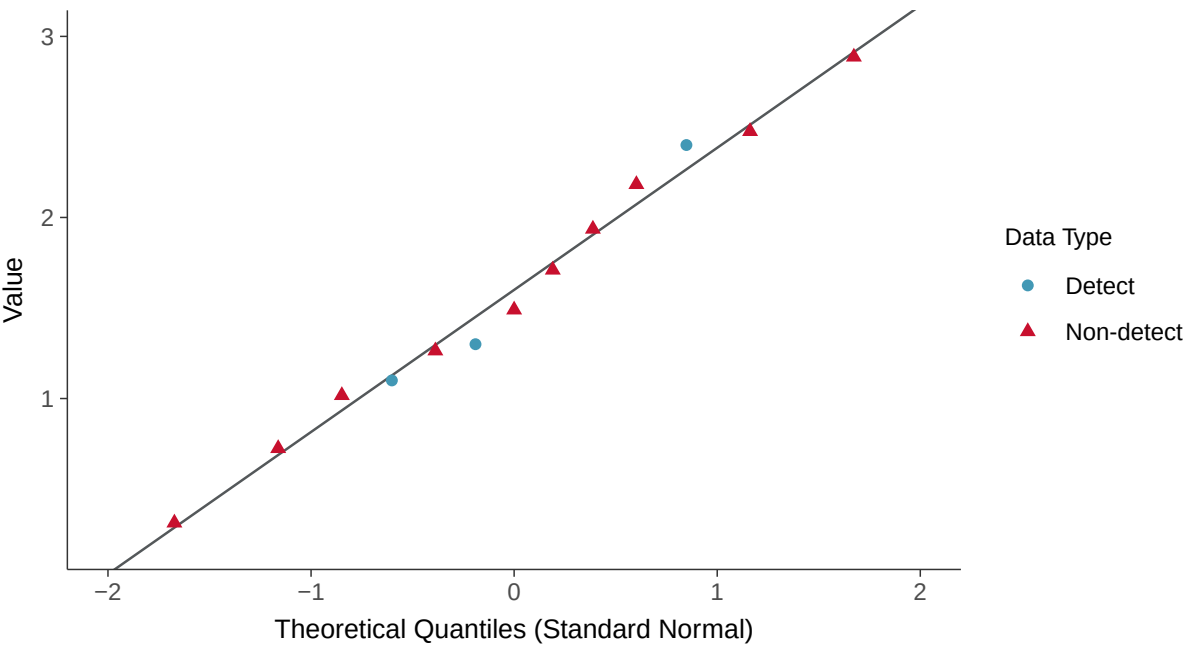






Normal Q-Q plot using ROS Imputed Estimates

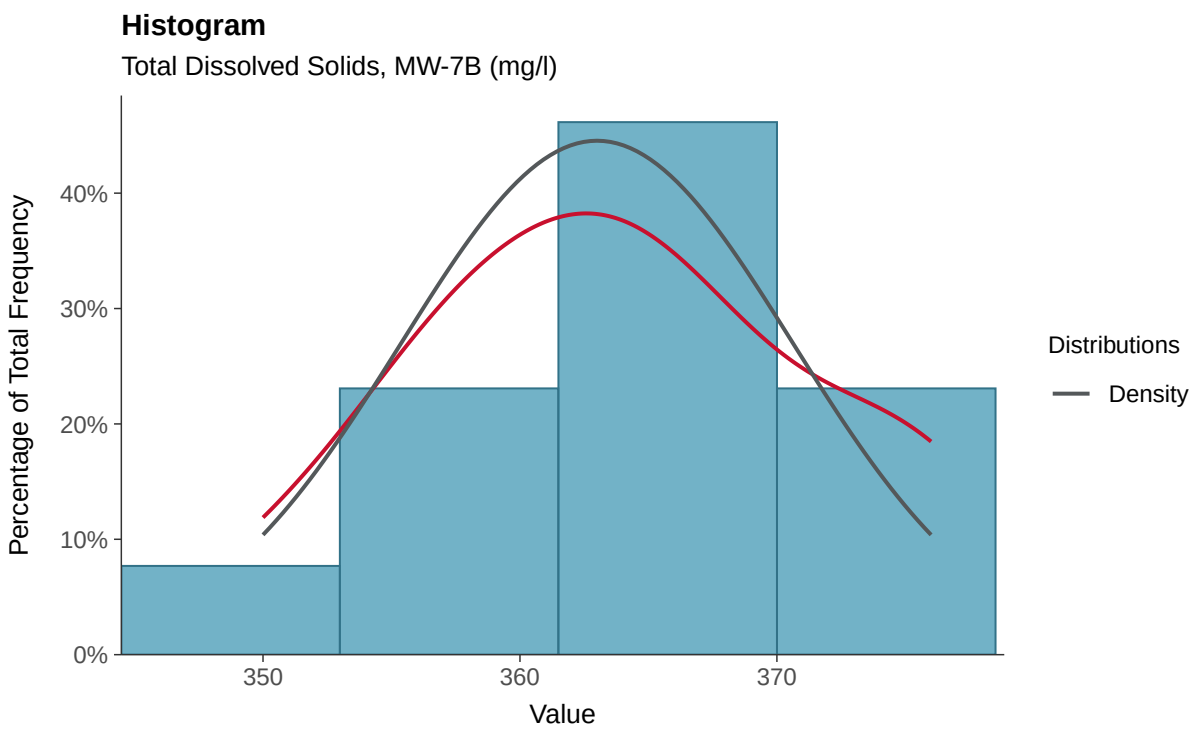
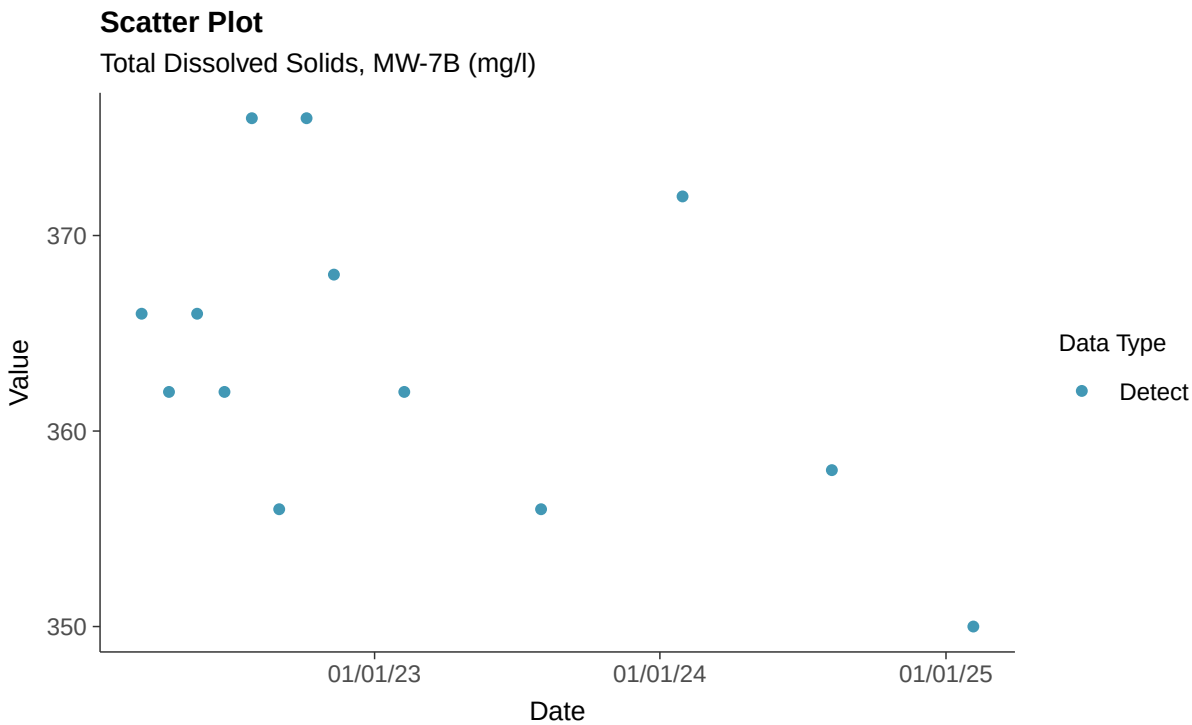
Sulfate, MW-7B (mg/l)





Appendix III: Total Dissolved Solids, MW-7B

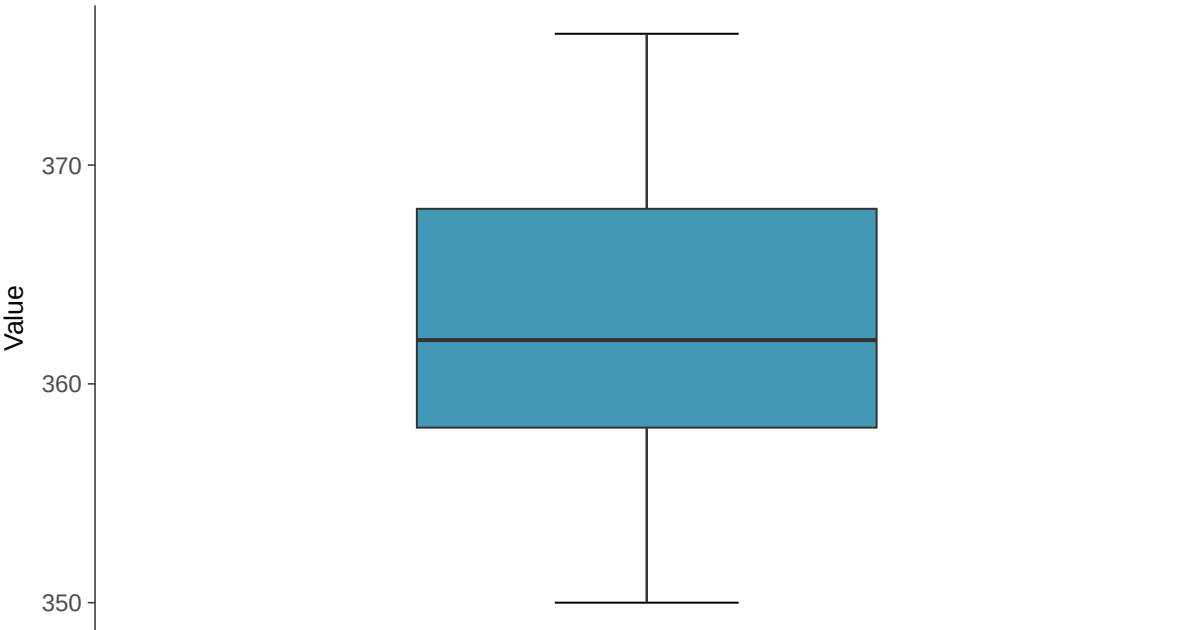
ID: 11_2_126





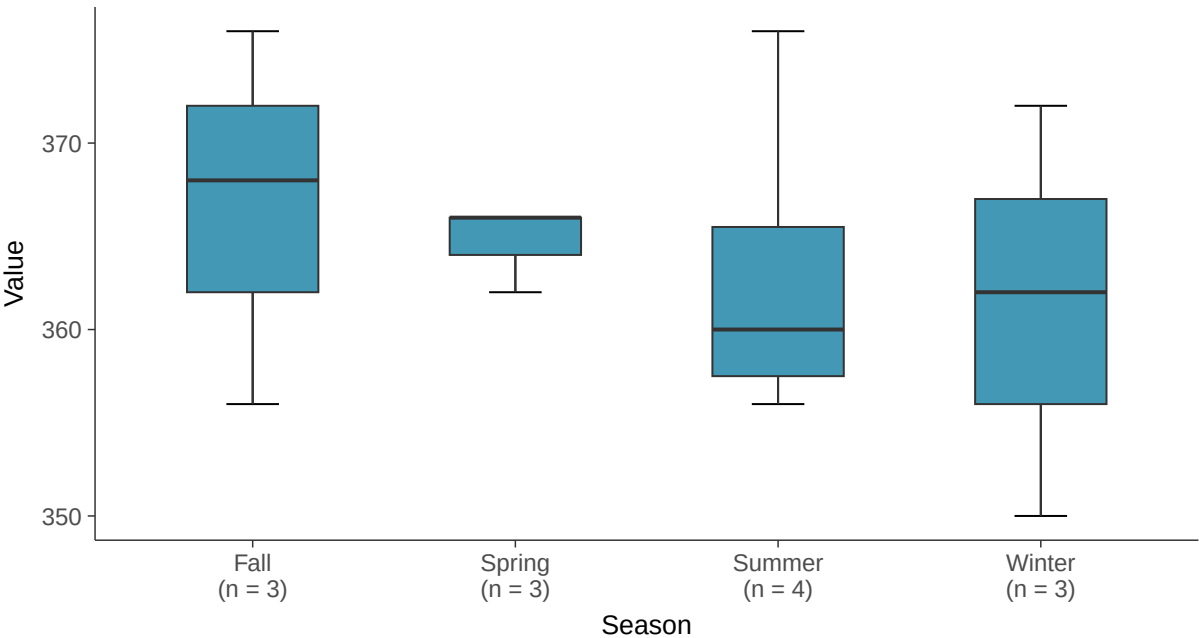
Boxplot

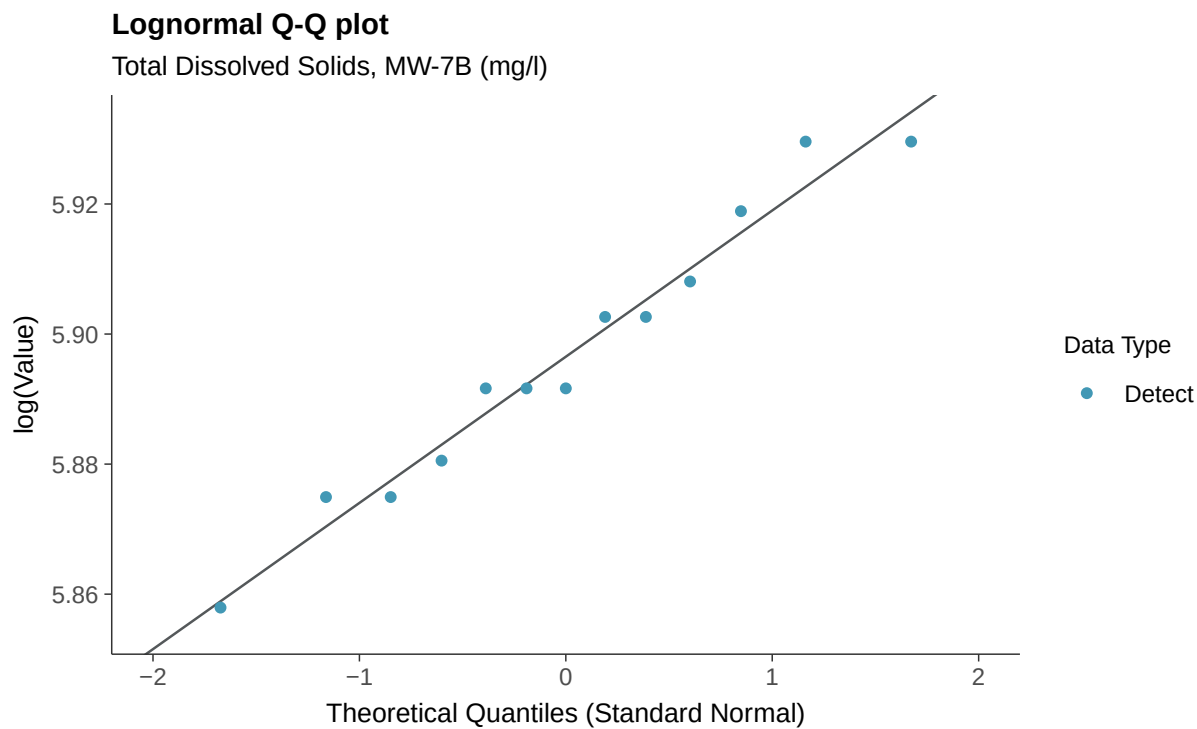
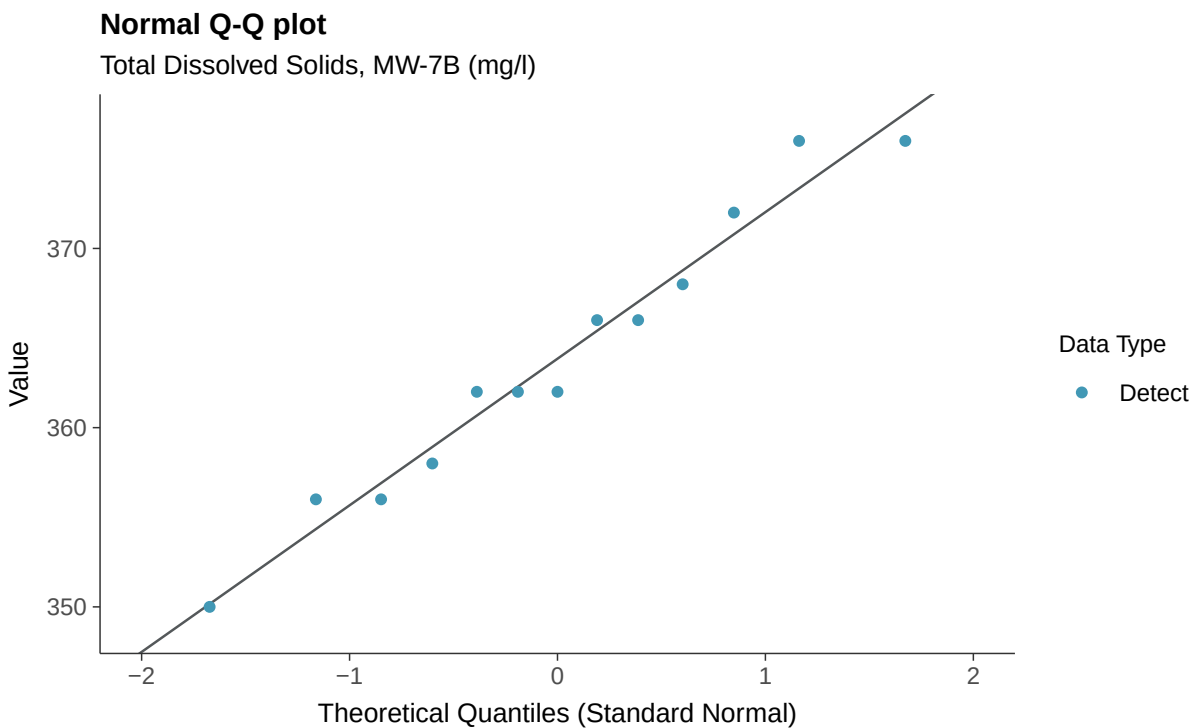
Total Dissolved Solids, MW-7B (mg/l)

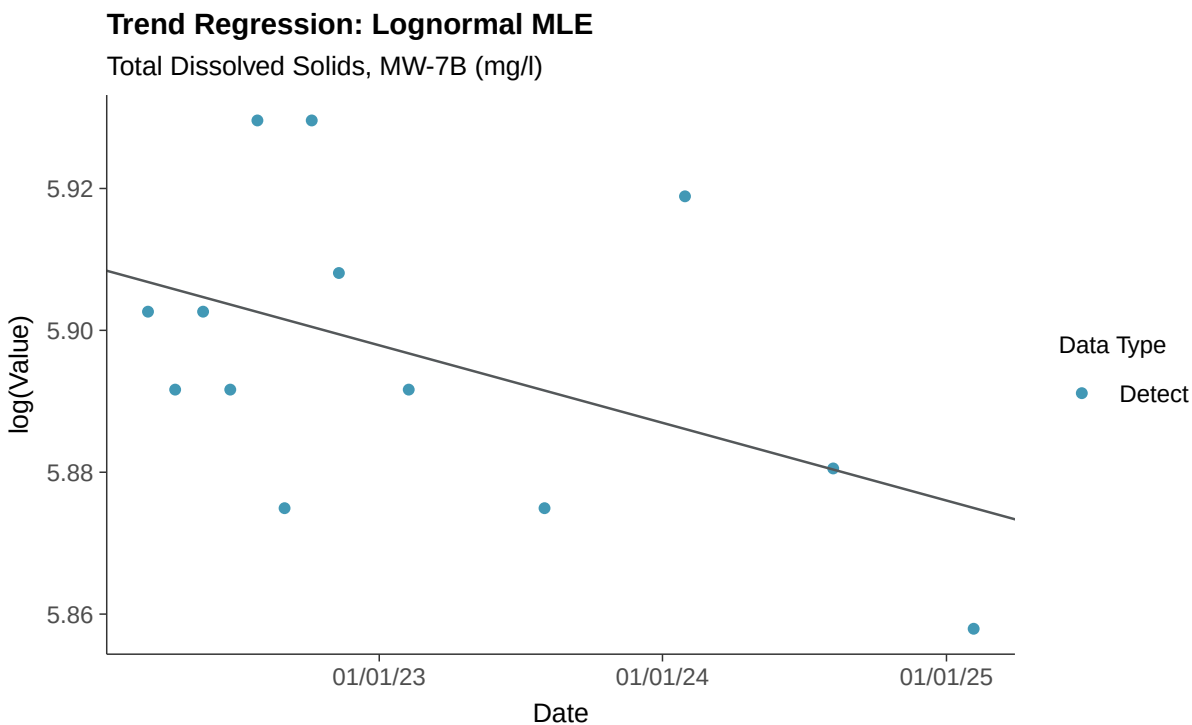
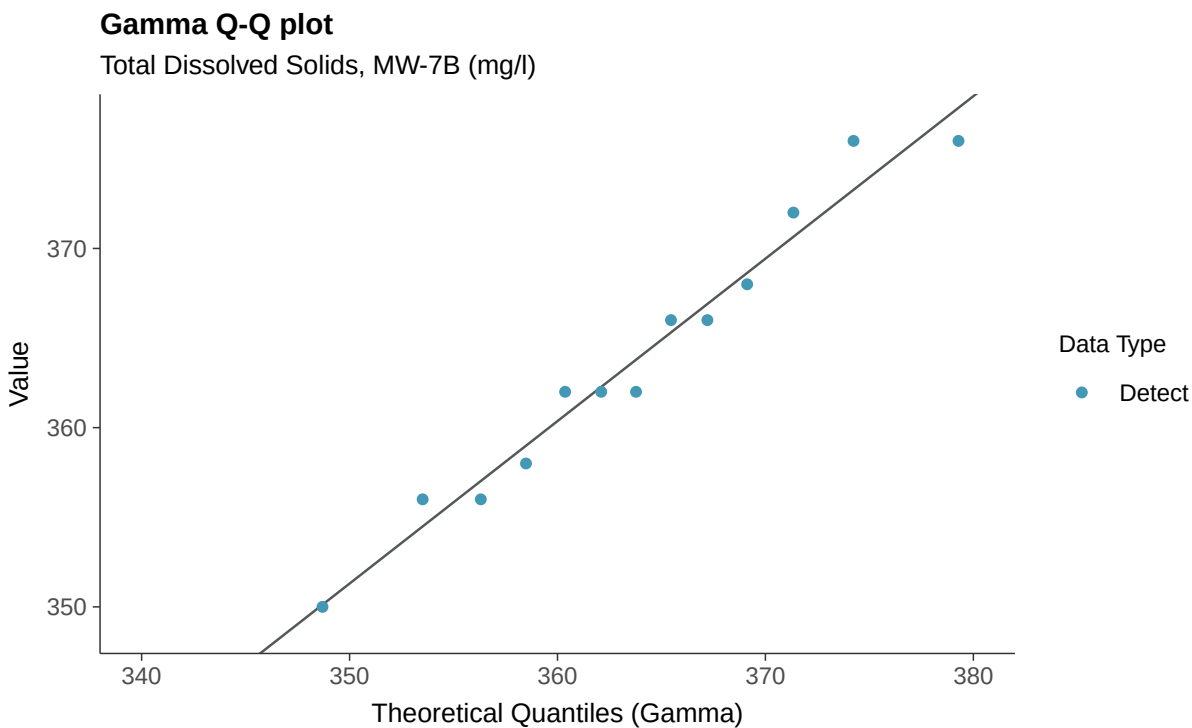


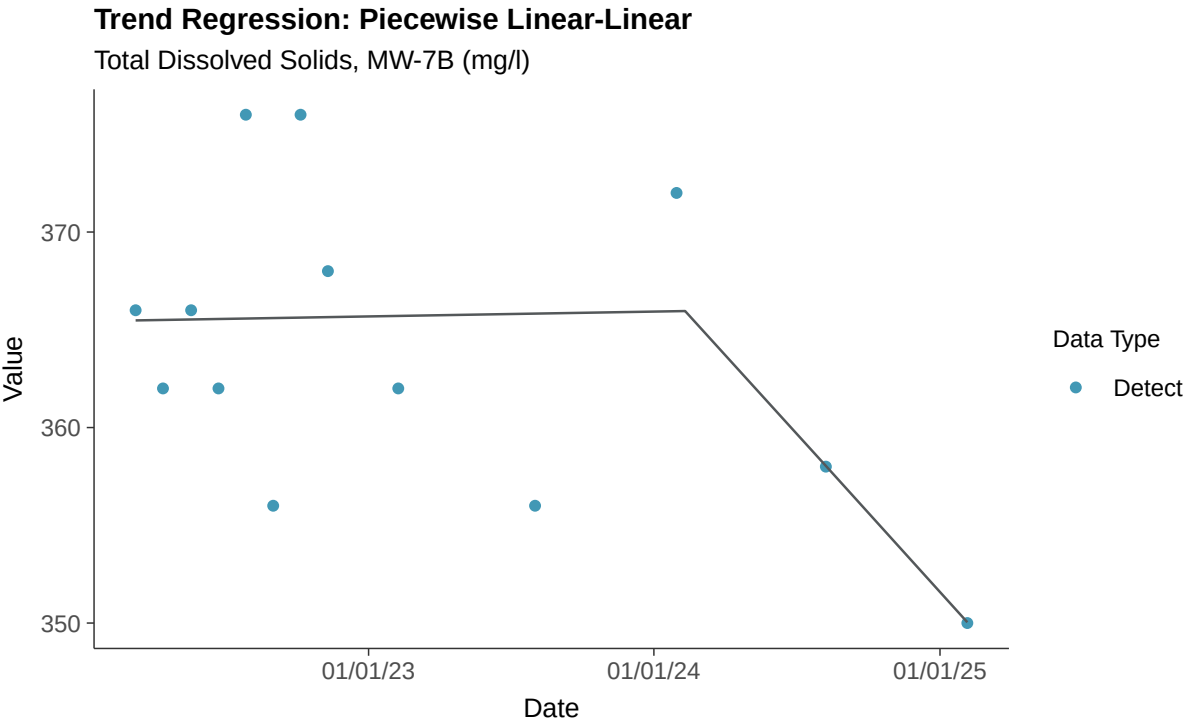
Boxplot by Season

Total Dissolved Solids, MW-7B (mg/l)





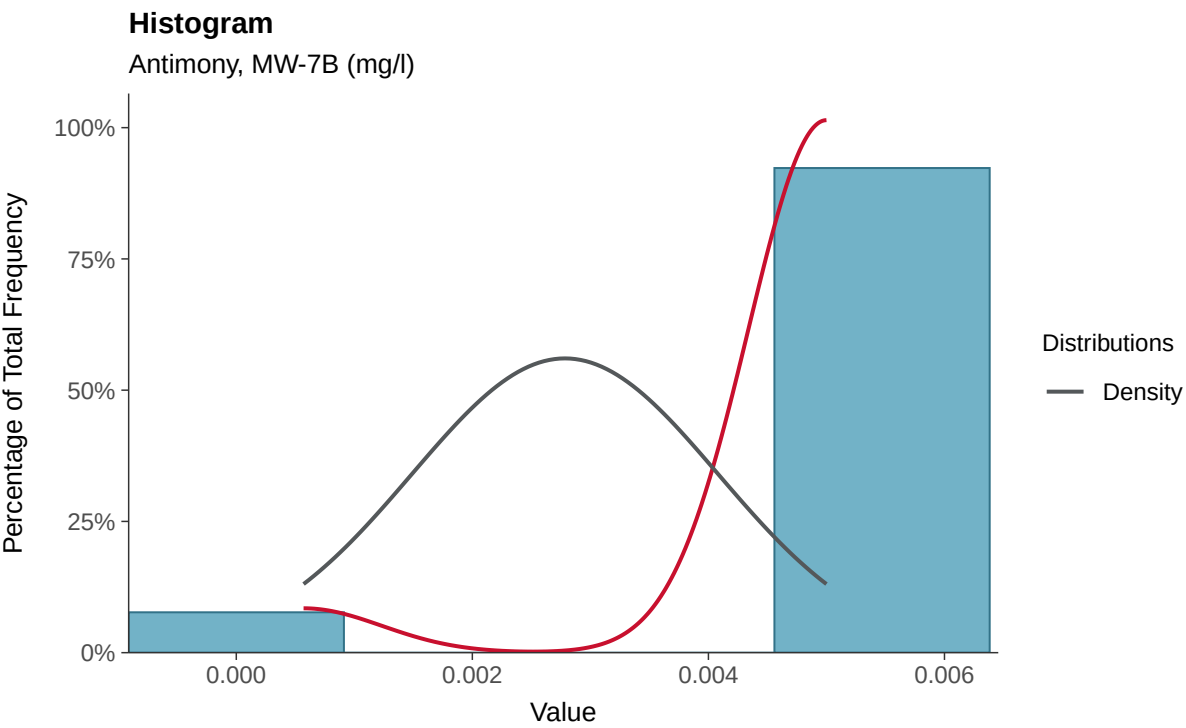
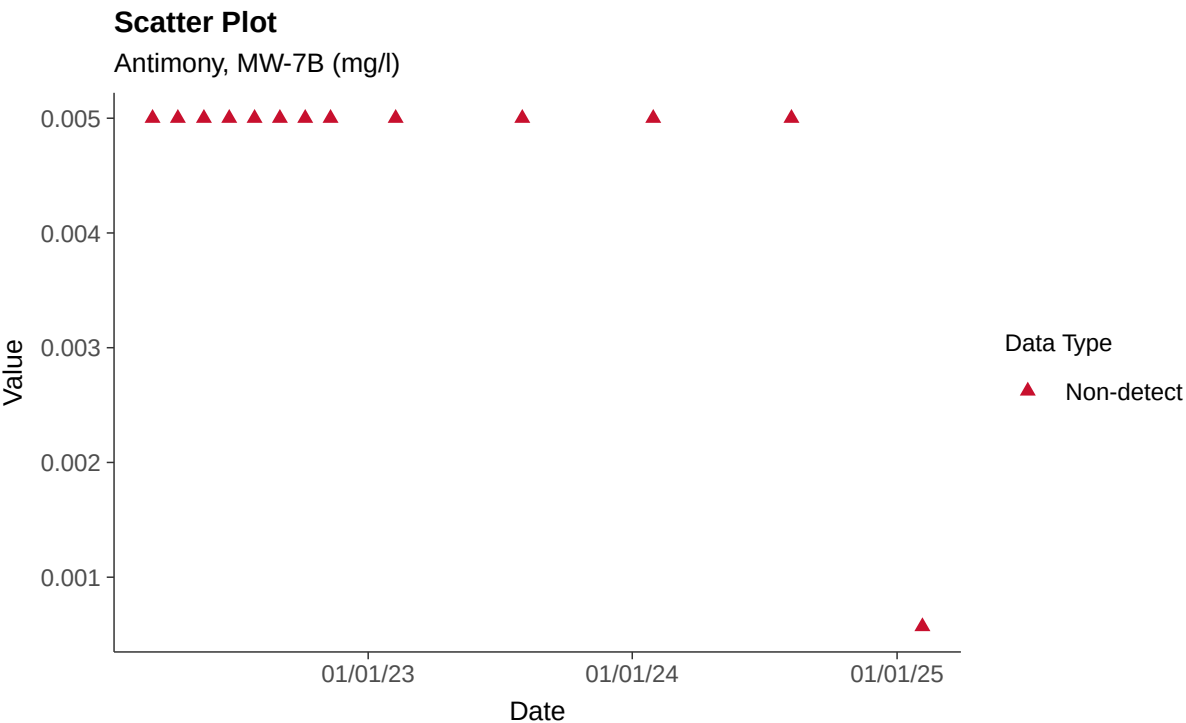


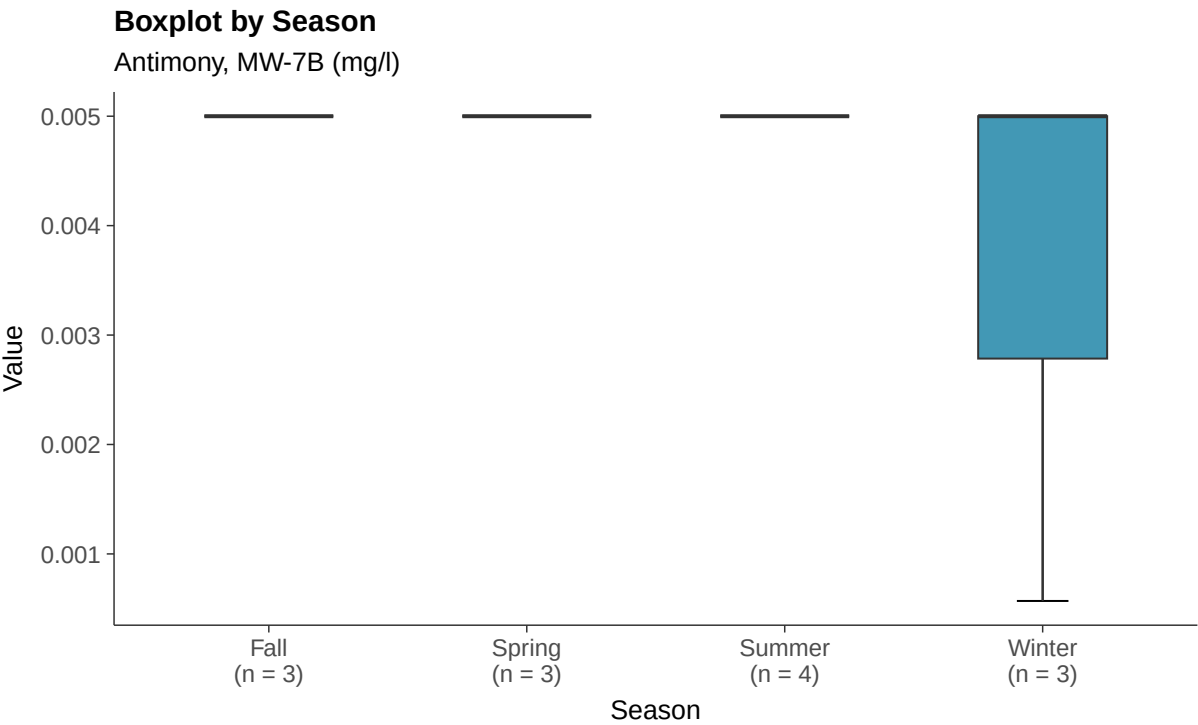
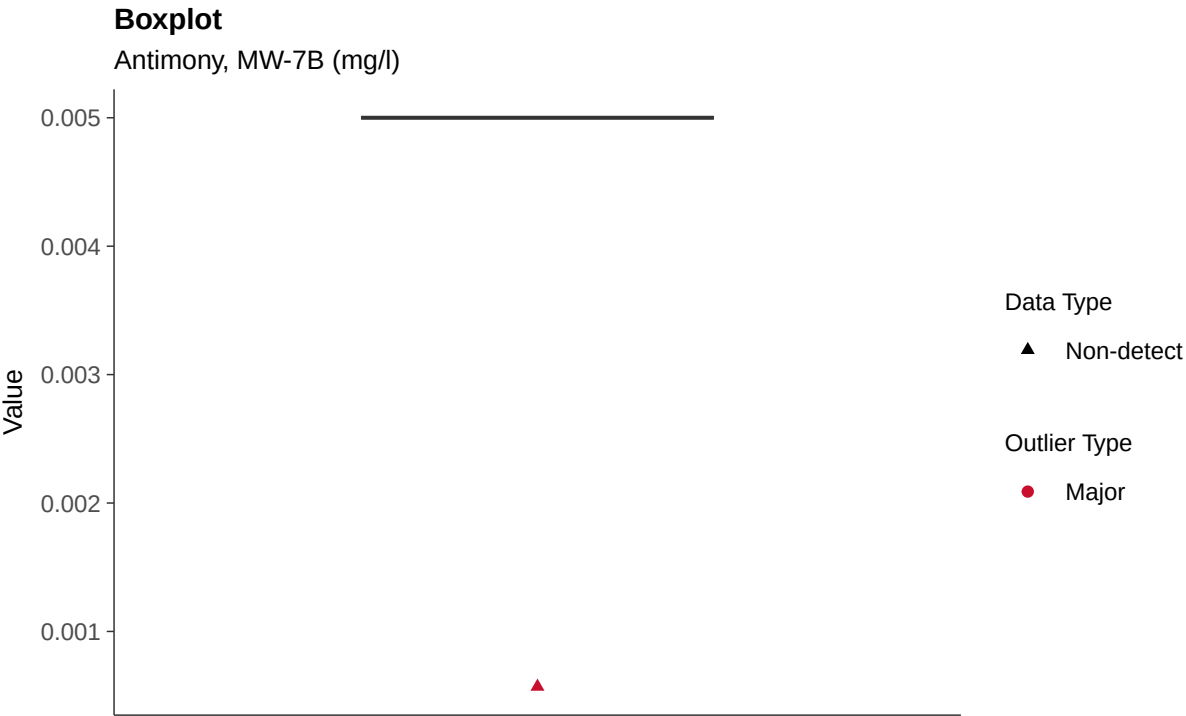




Appendix IV: Antimony, MW-7B

ID: 11_3_101

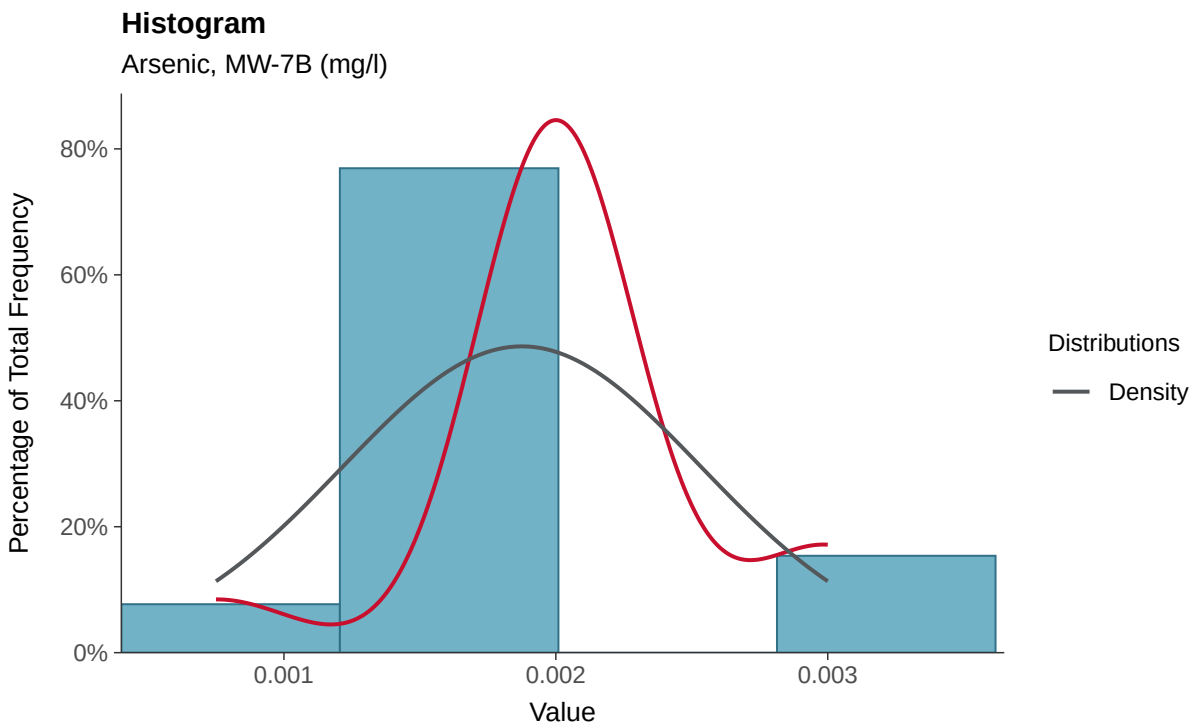
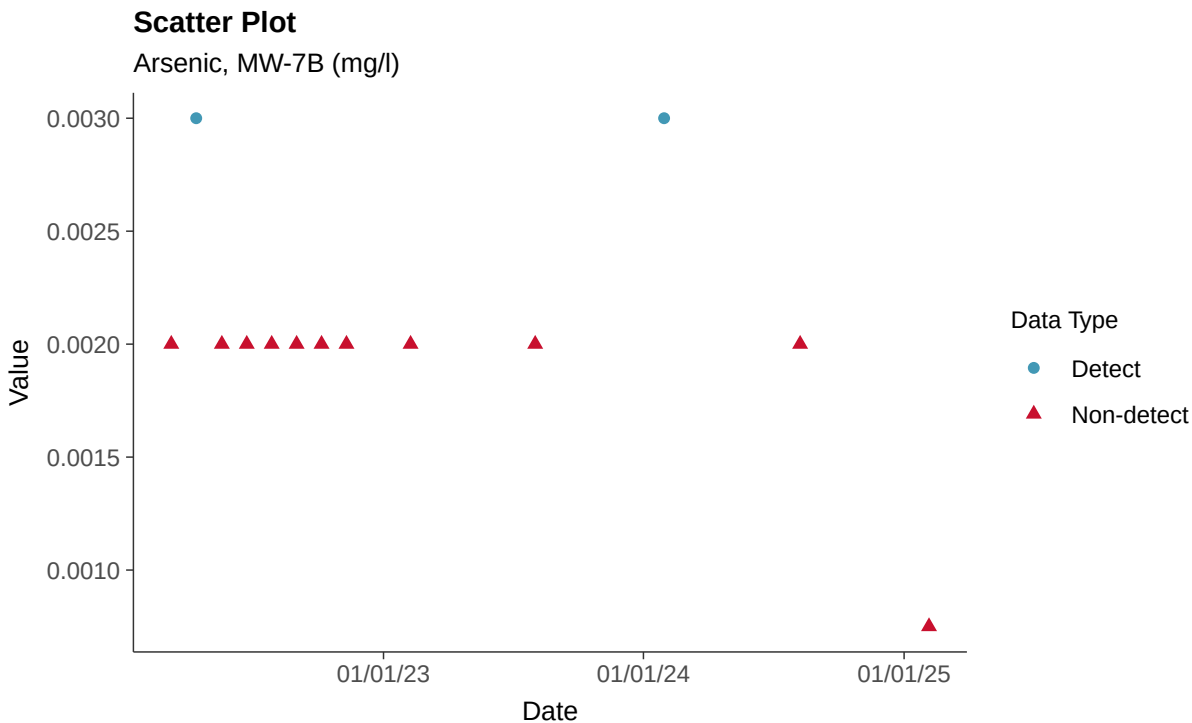


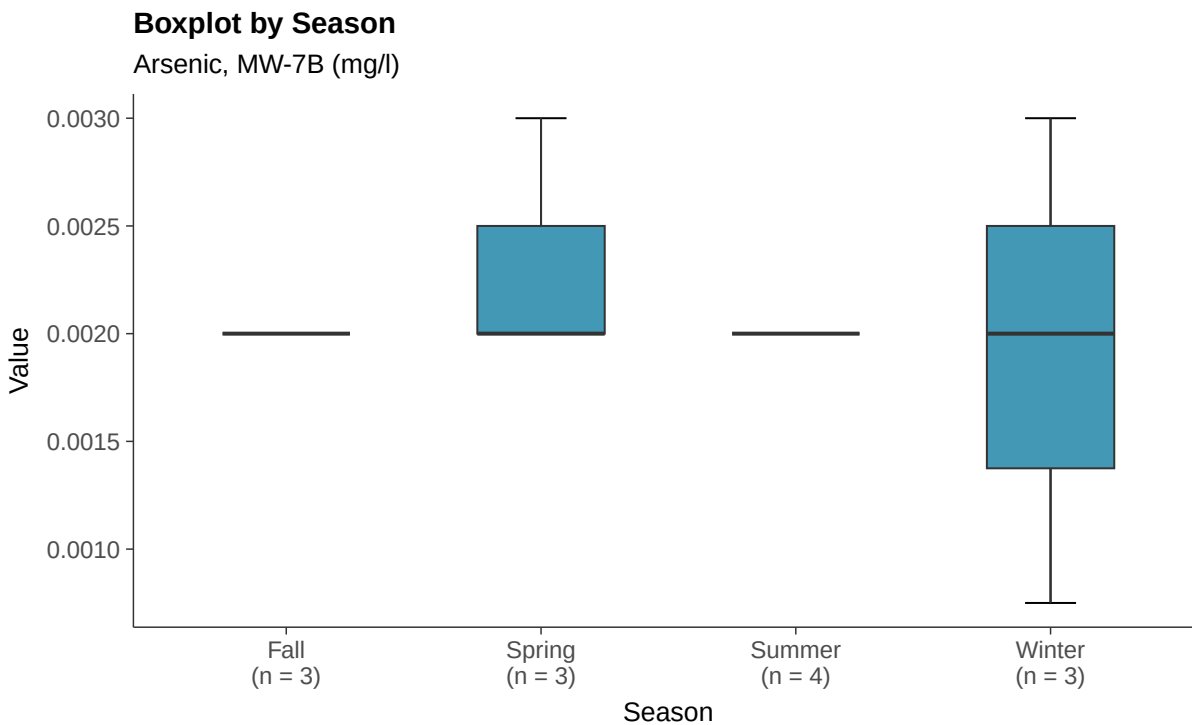
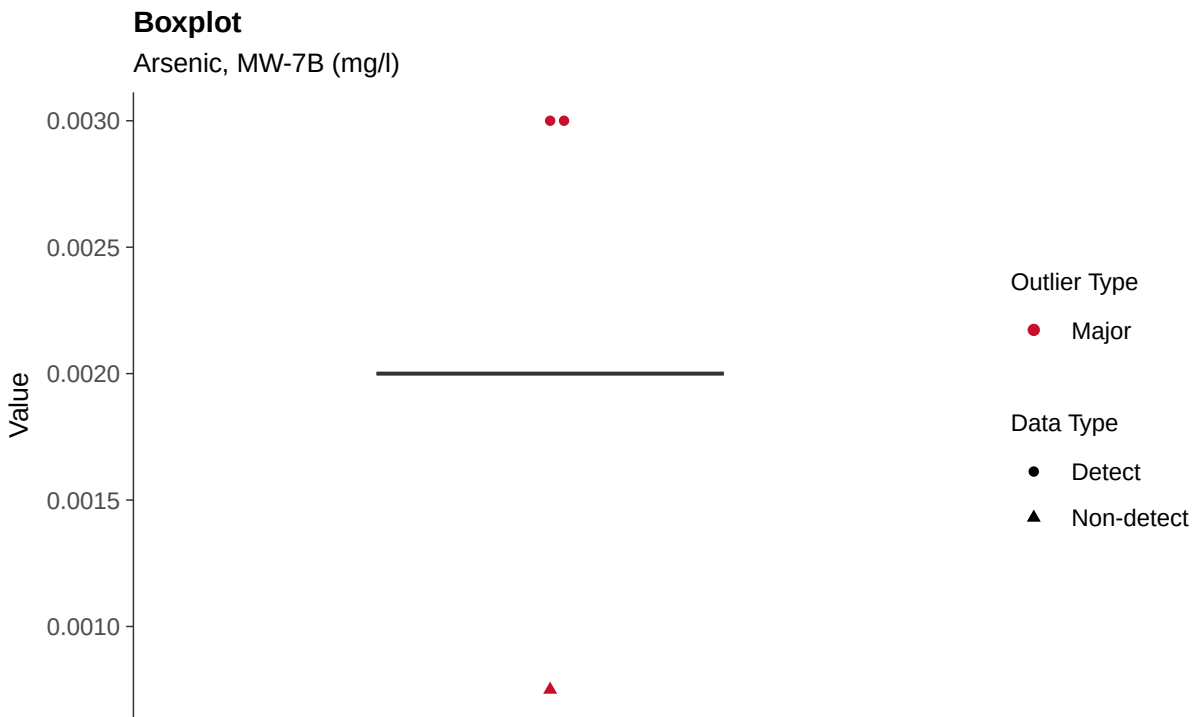


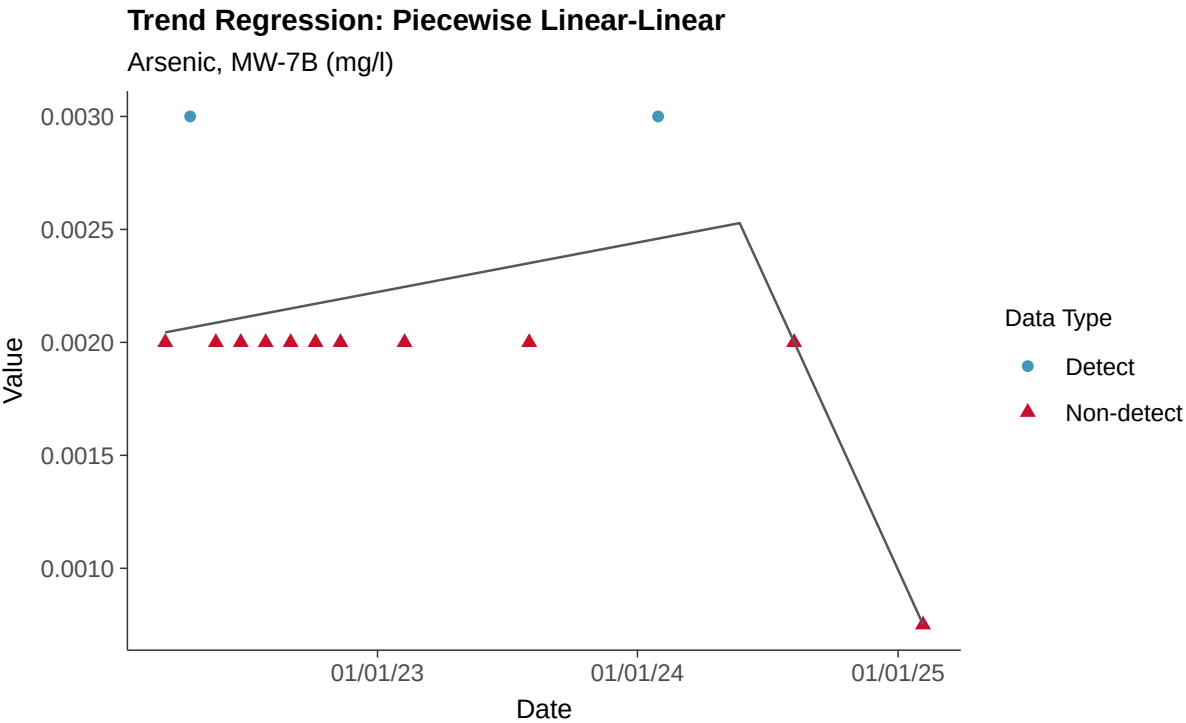
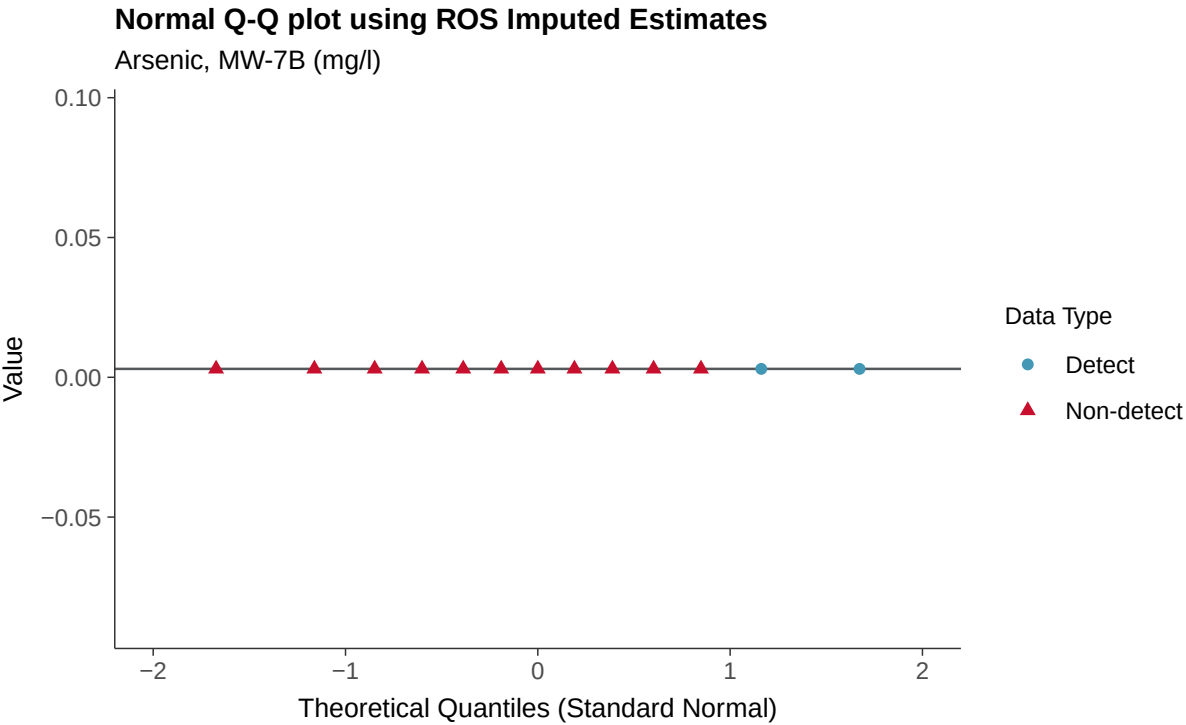


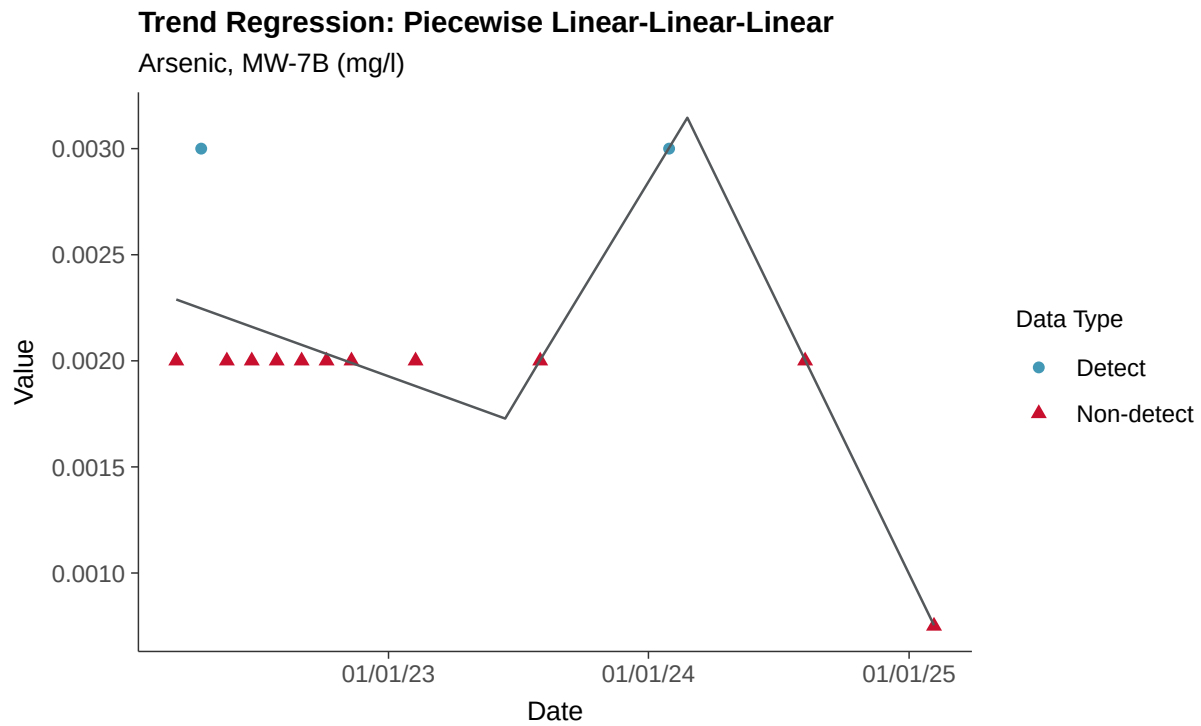
Appendix IV: Arsenic, MW-7B

ID: 11_3_102





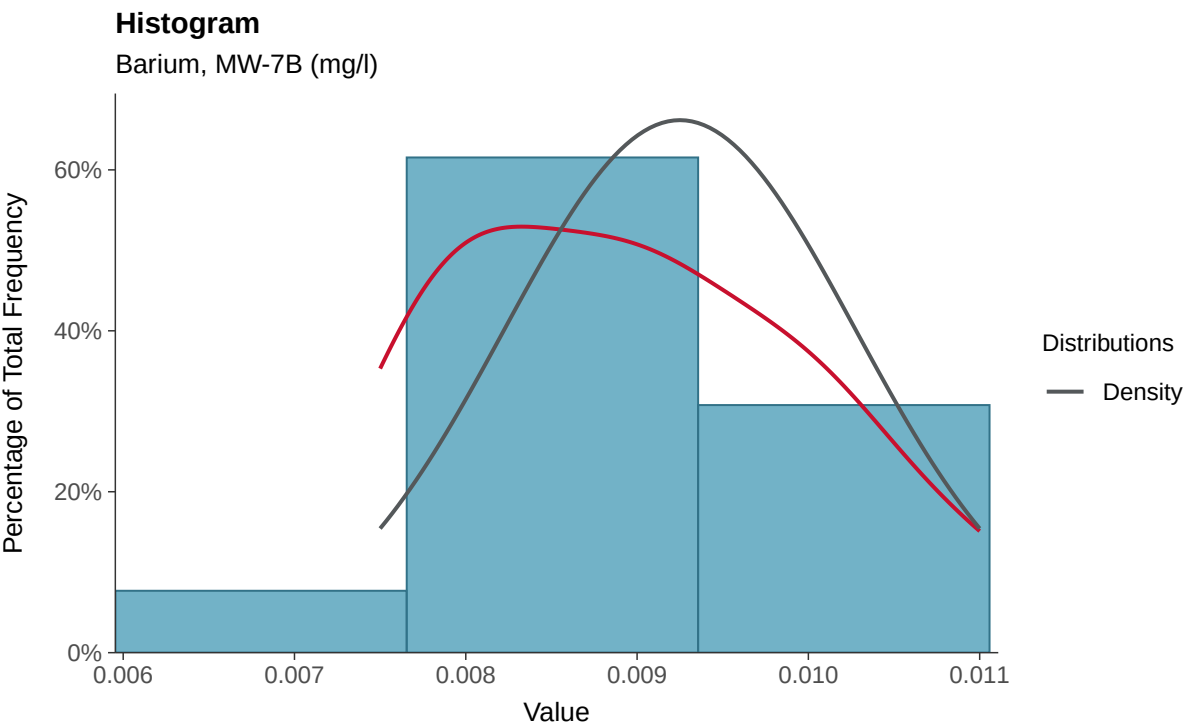
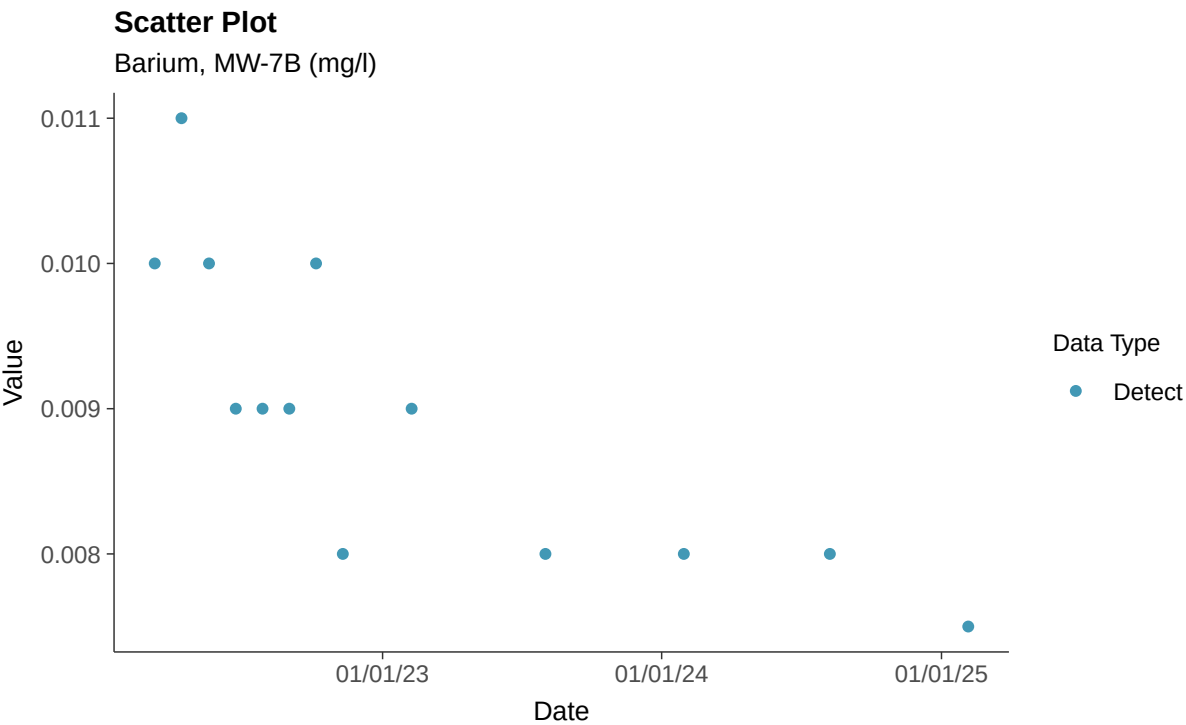


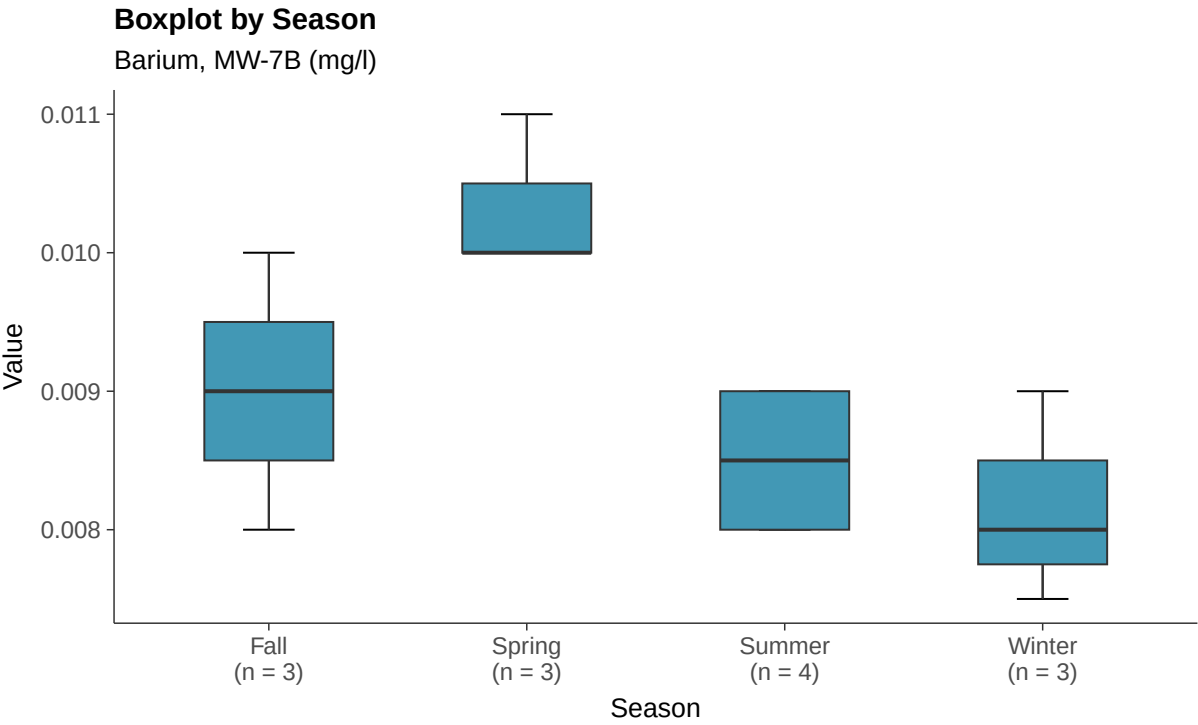
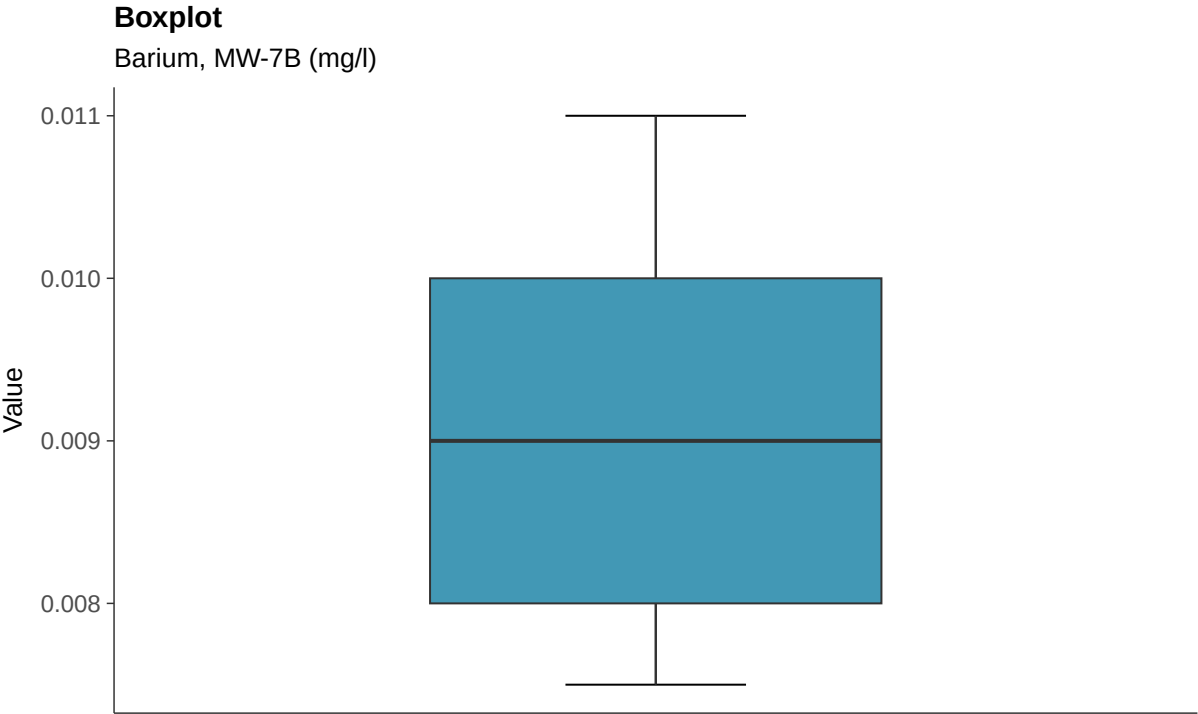


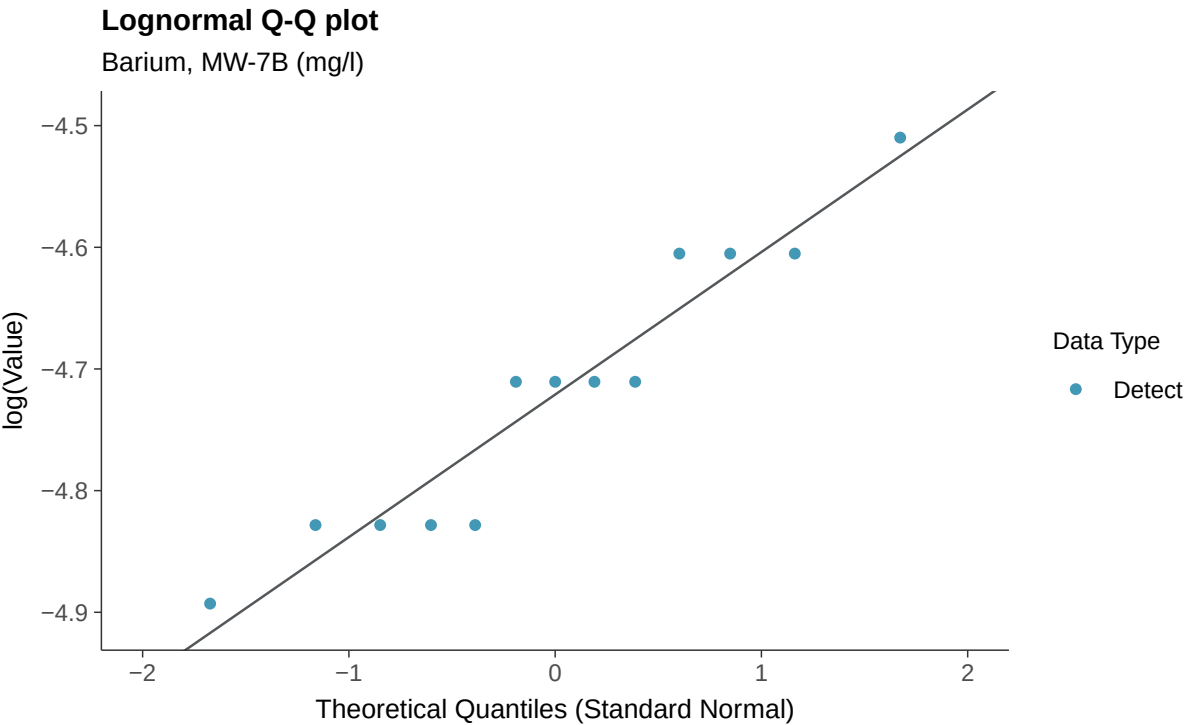
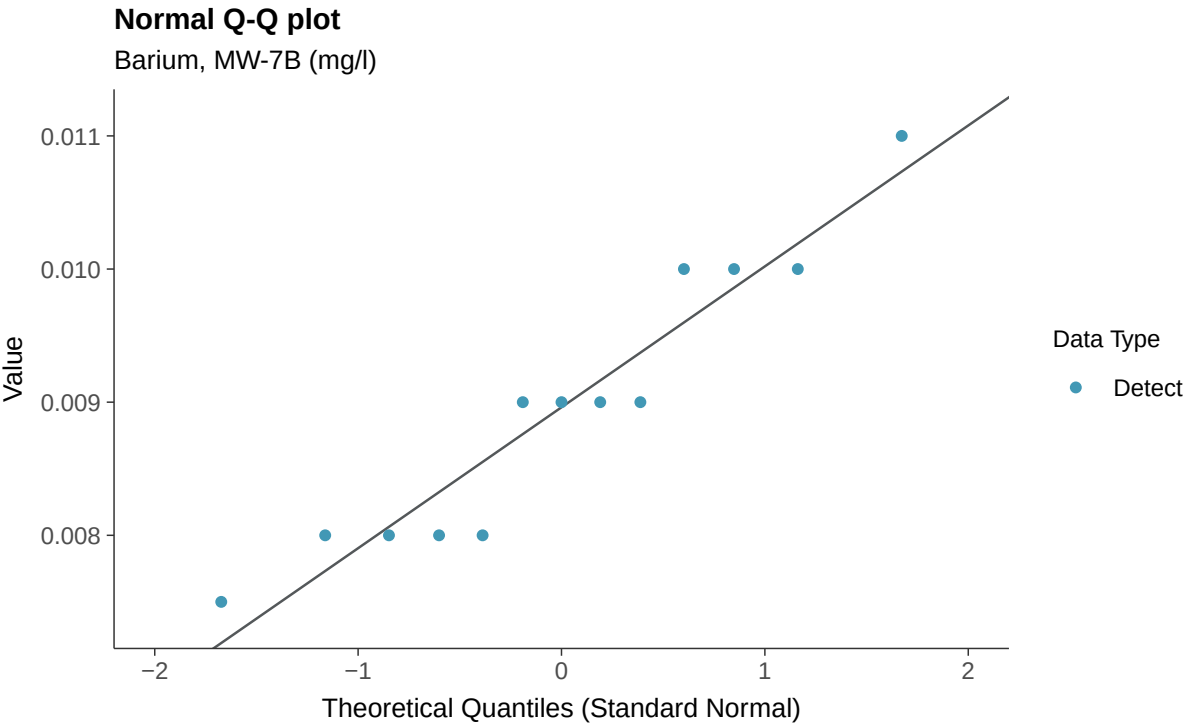


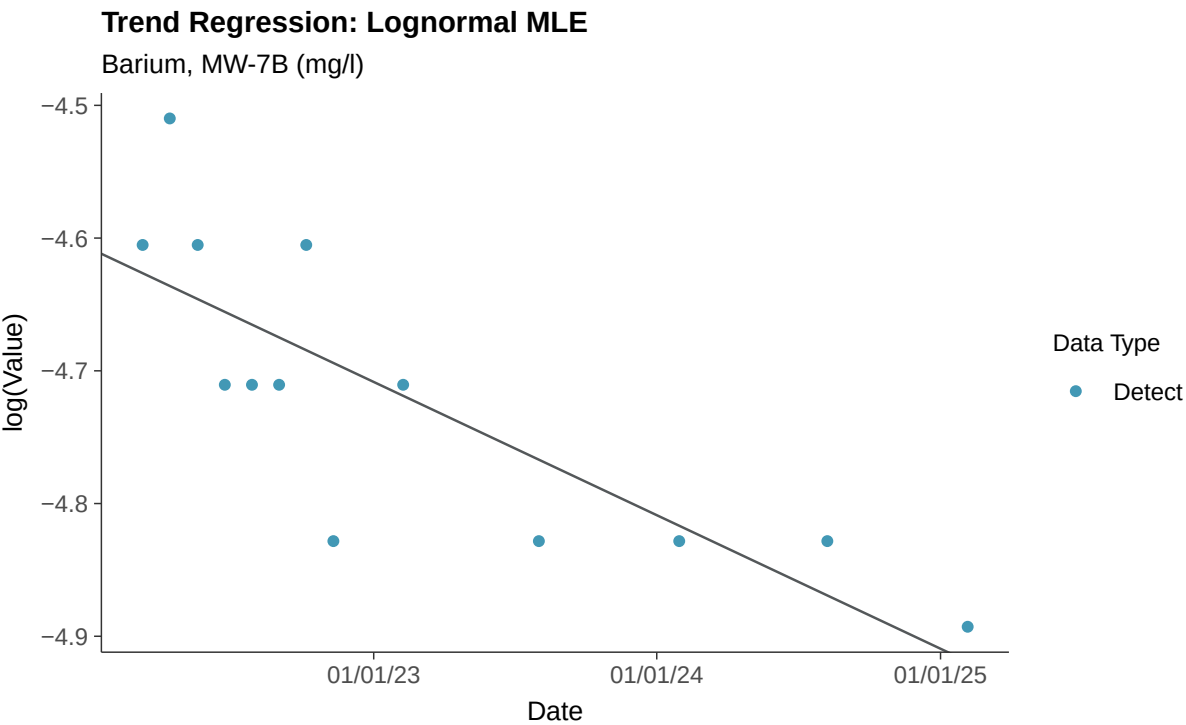
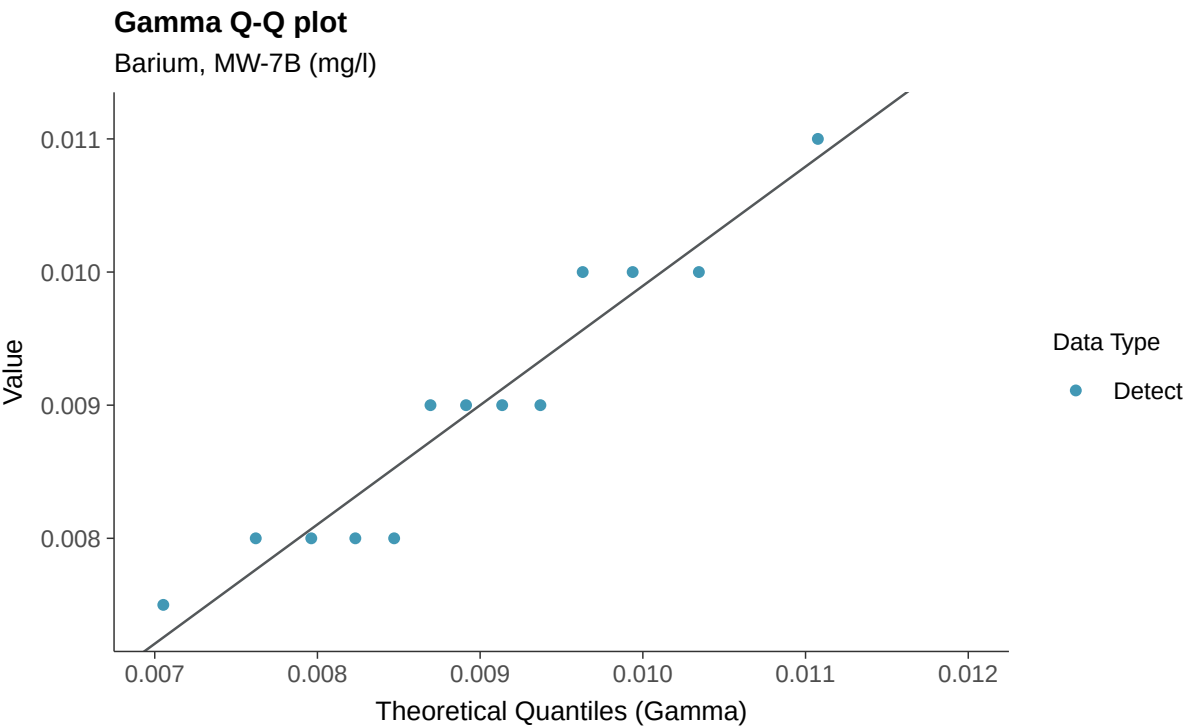
Appendix IV: Barium, MW-7B

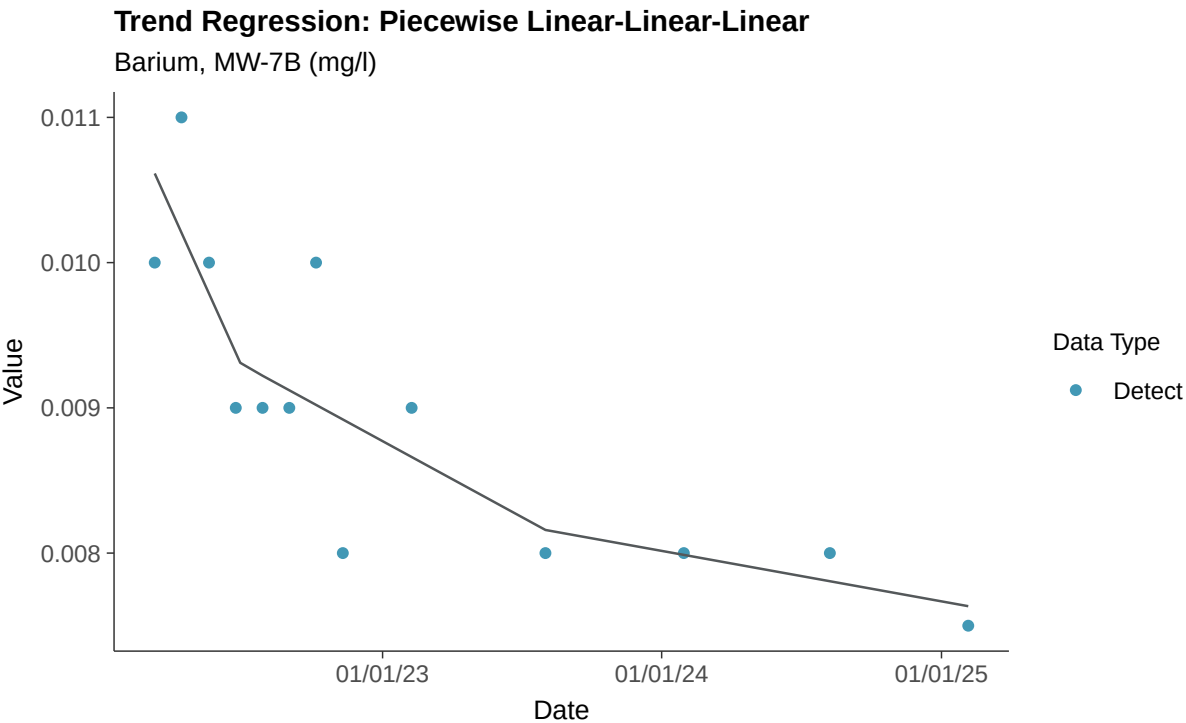
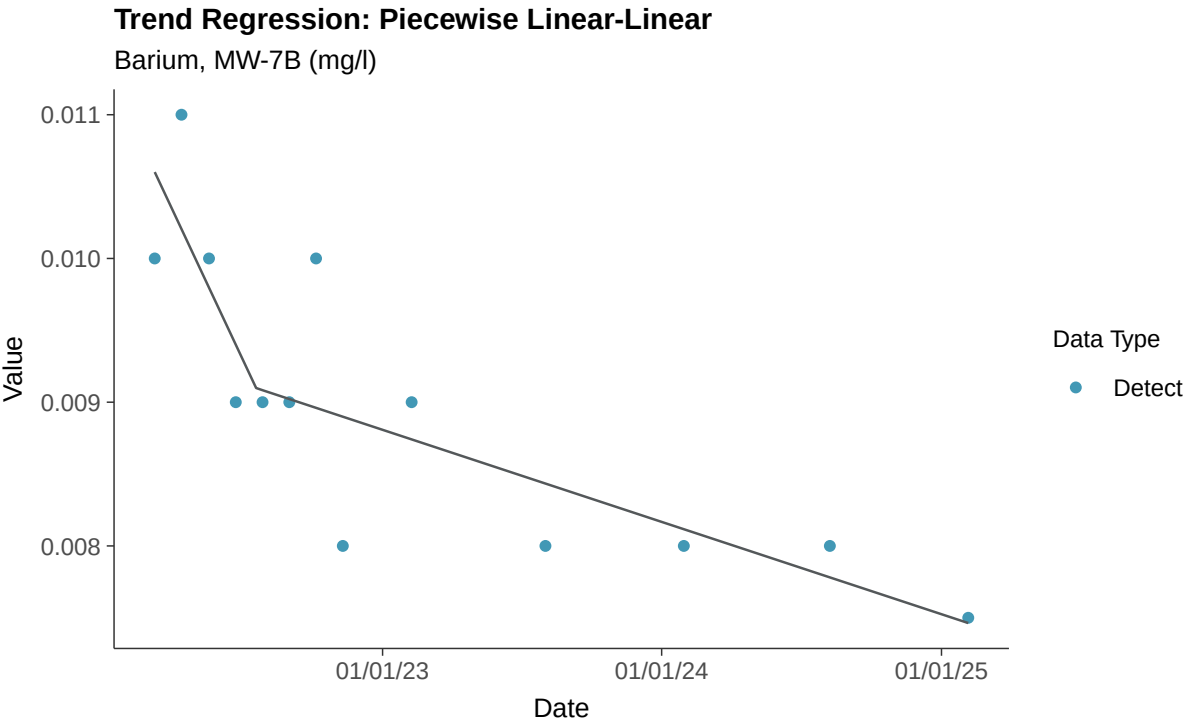
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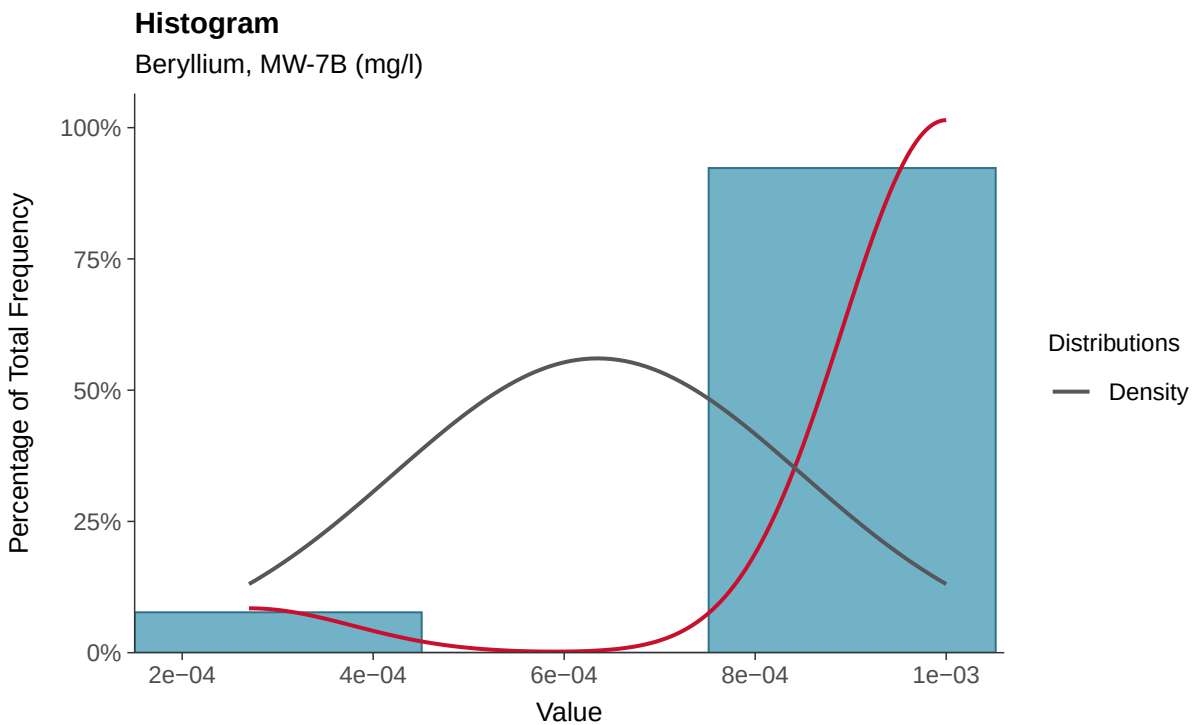
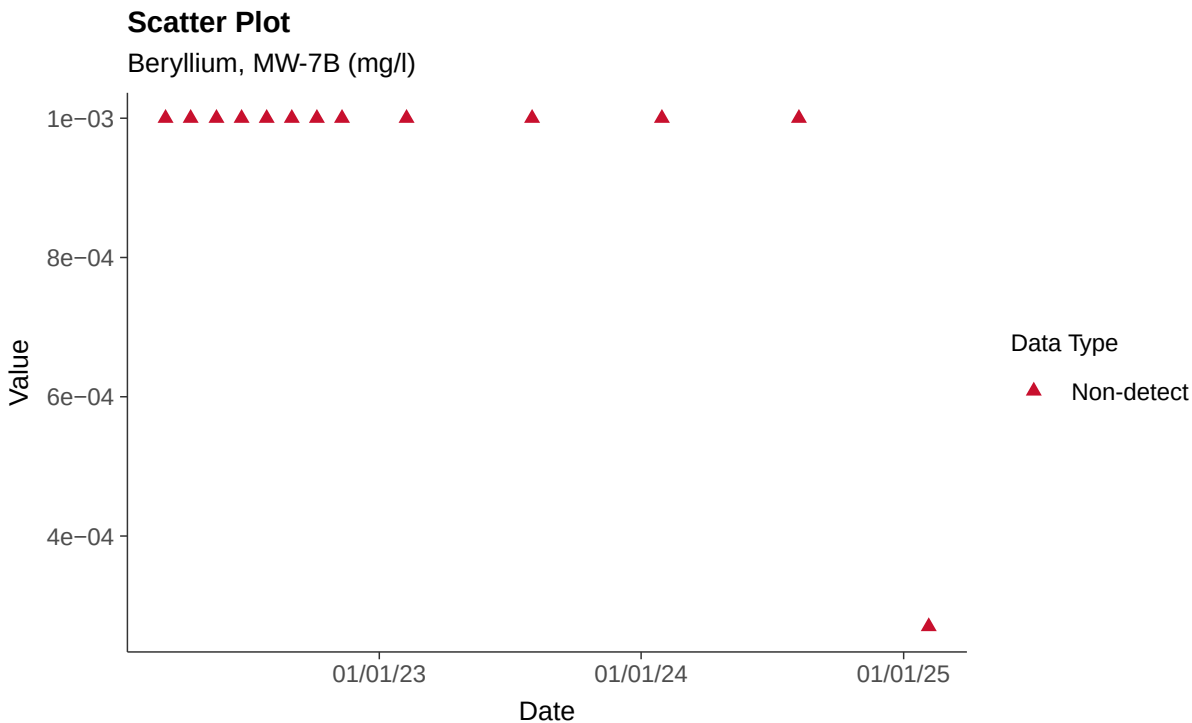


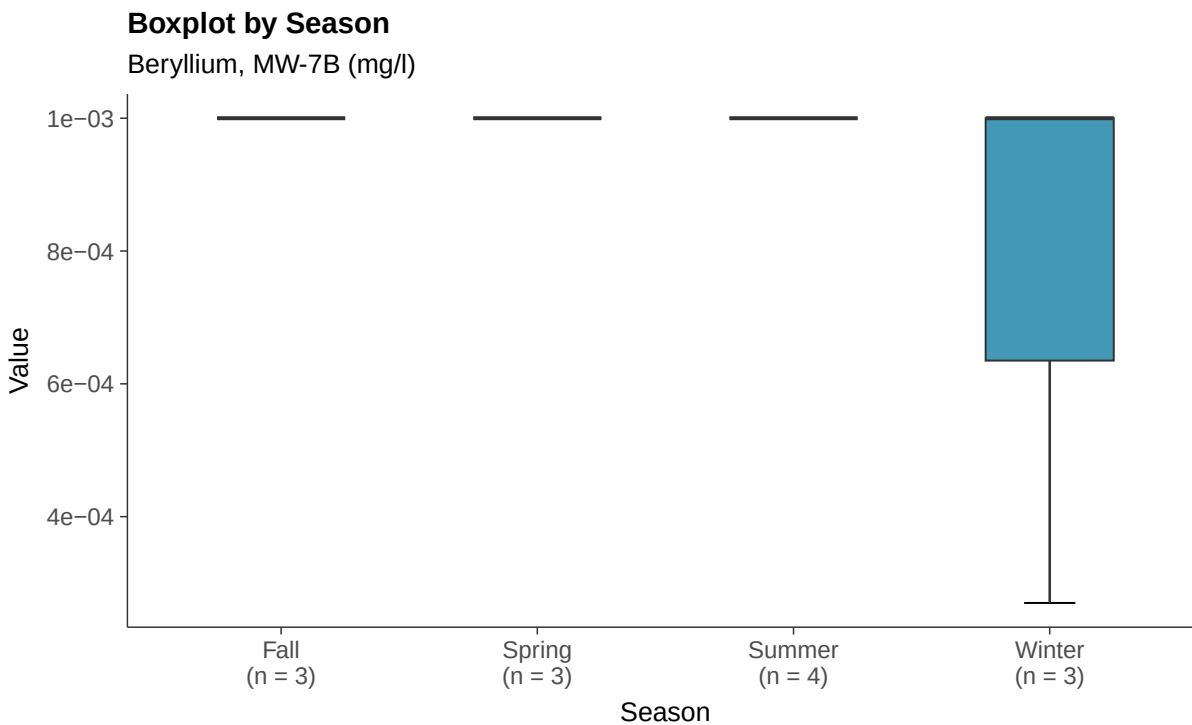
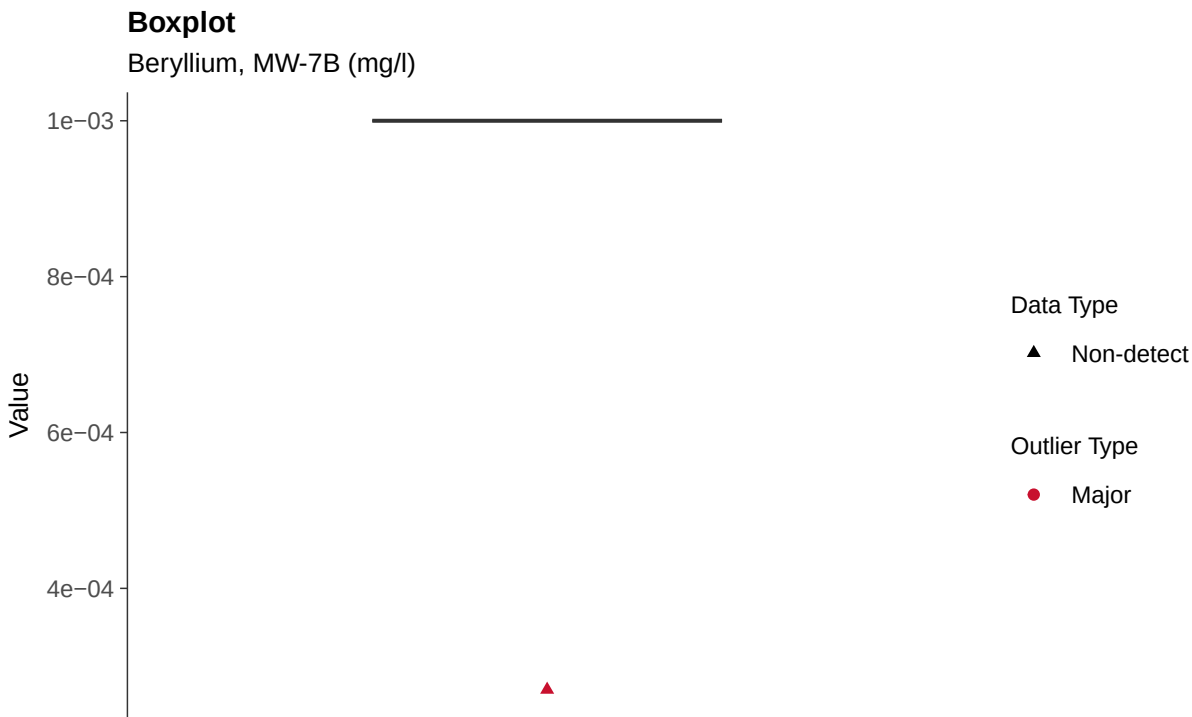




Appendix IV: Beryllium, MW-7B

ID: 11_3_104

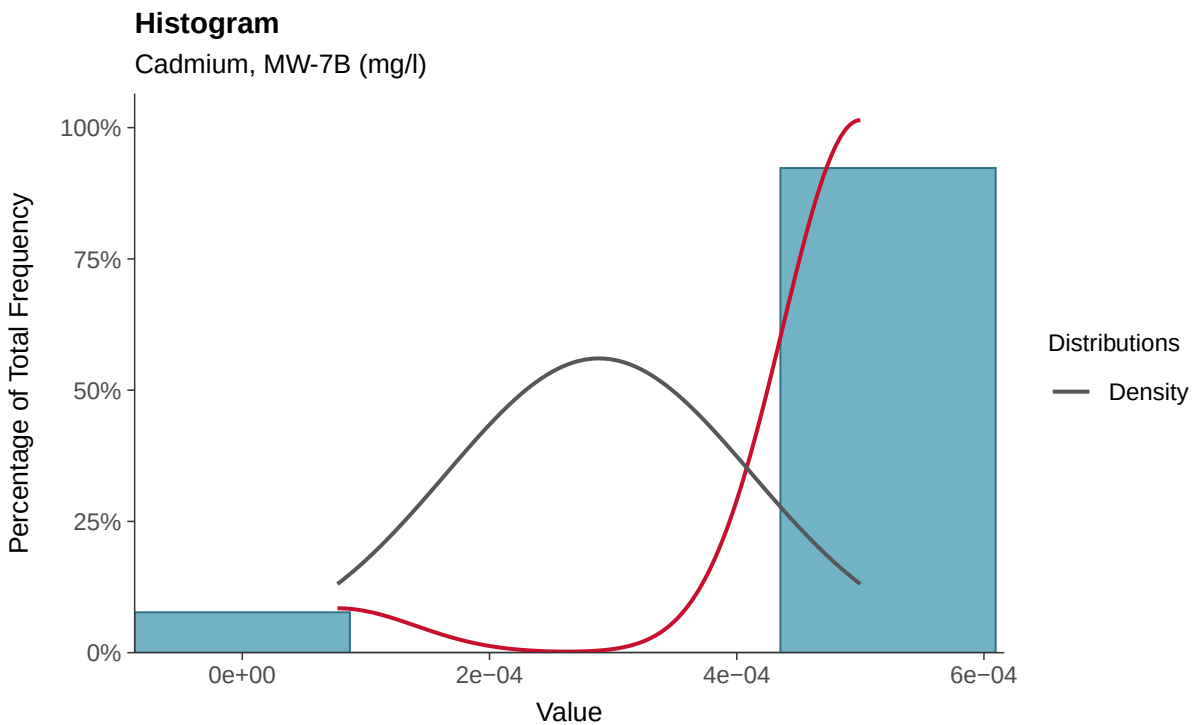
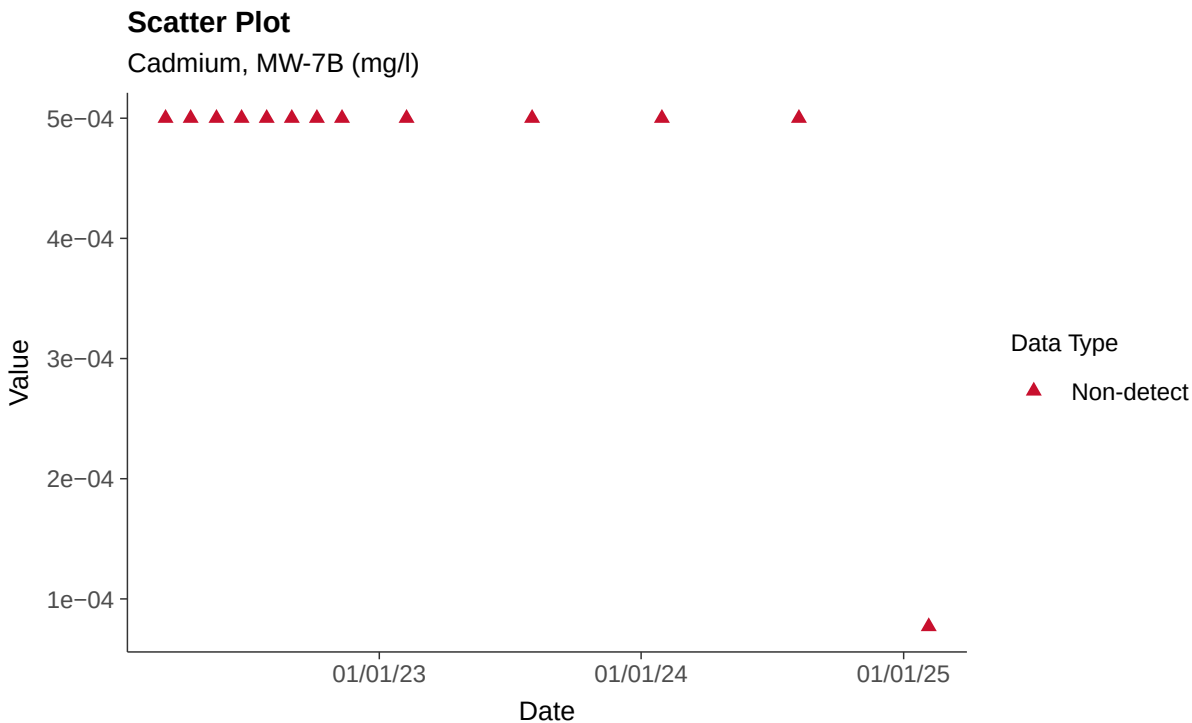


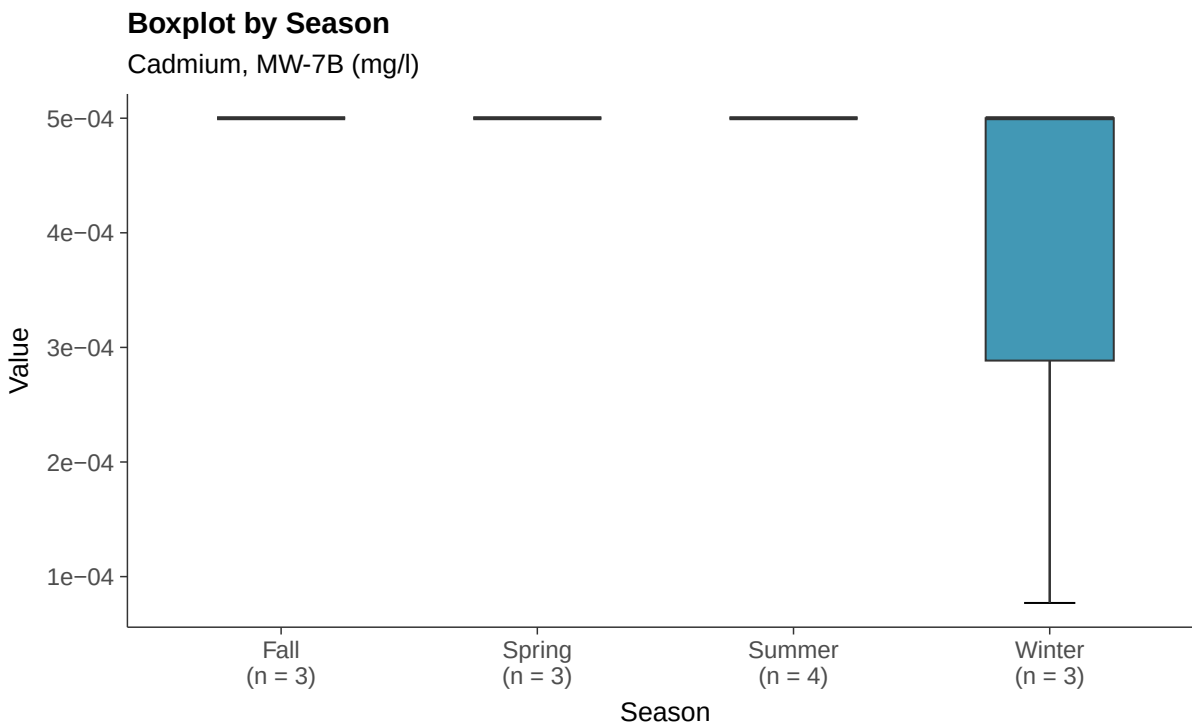
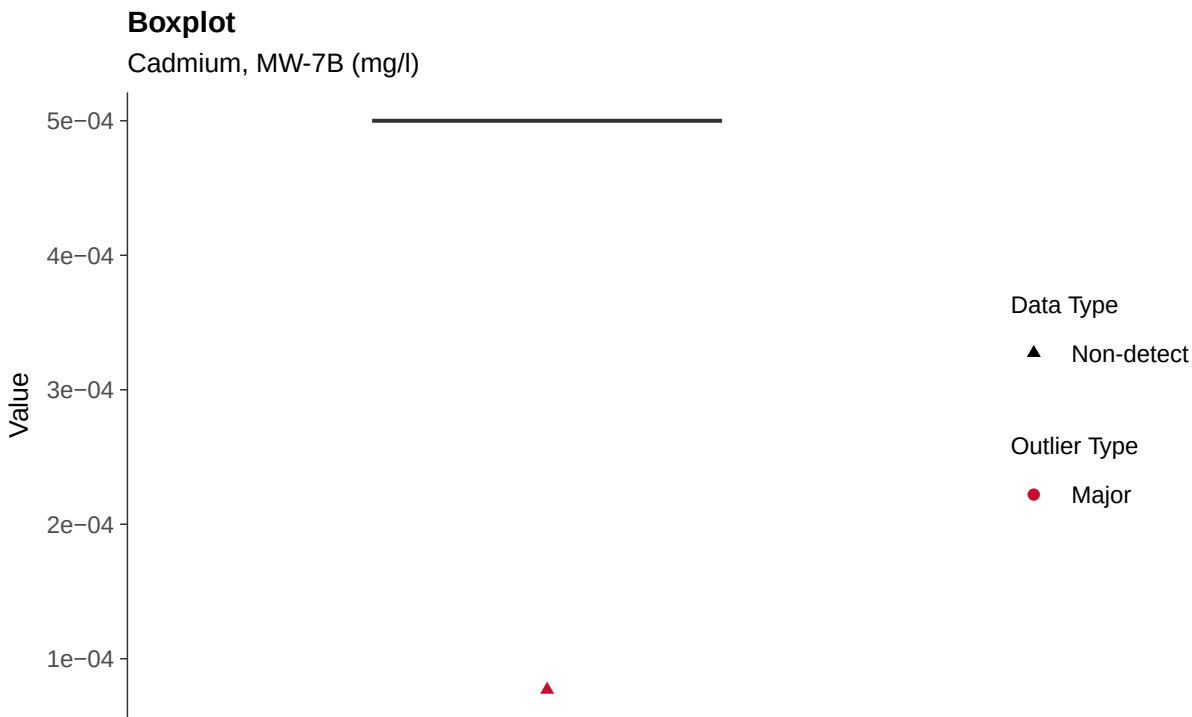


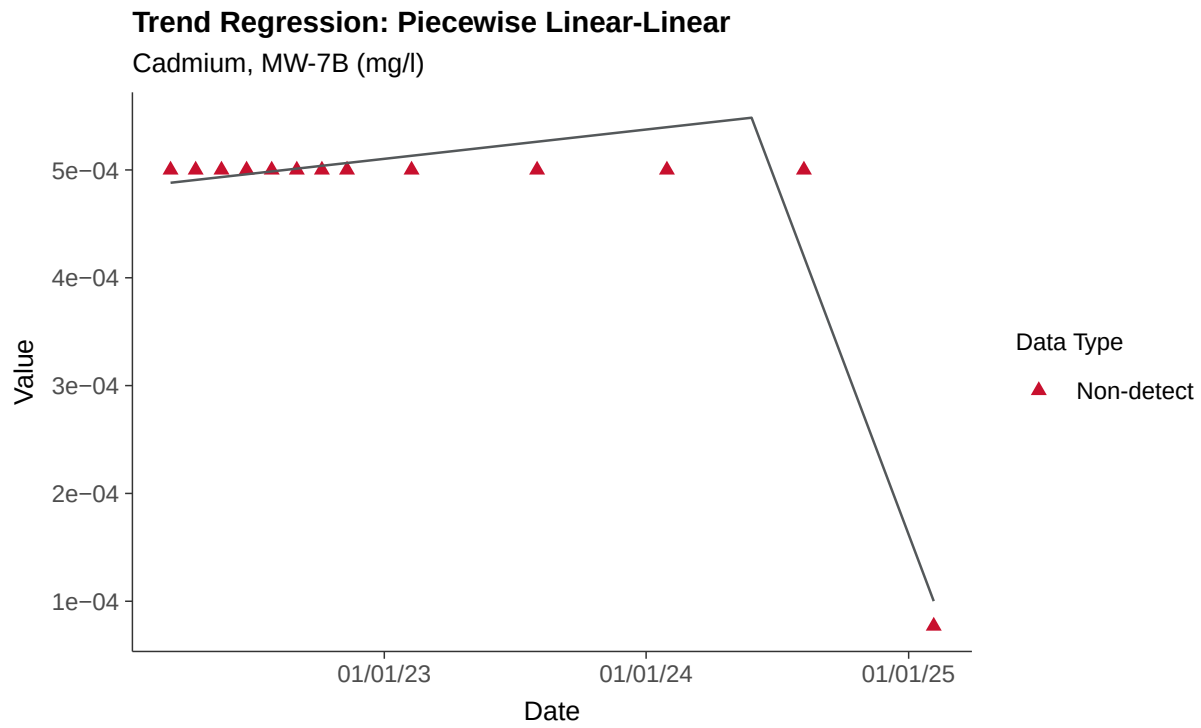


Appendix IV: Cadmium, MW-7B

ID: 11_3_106



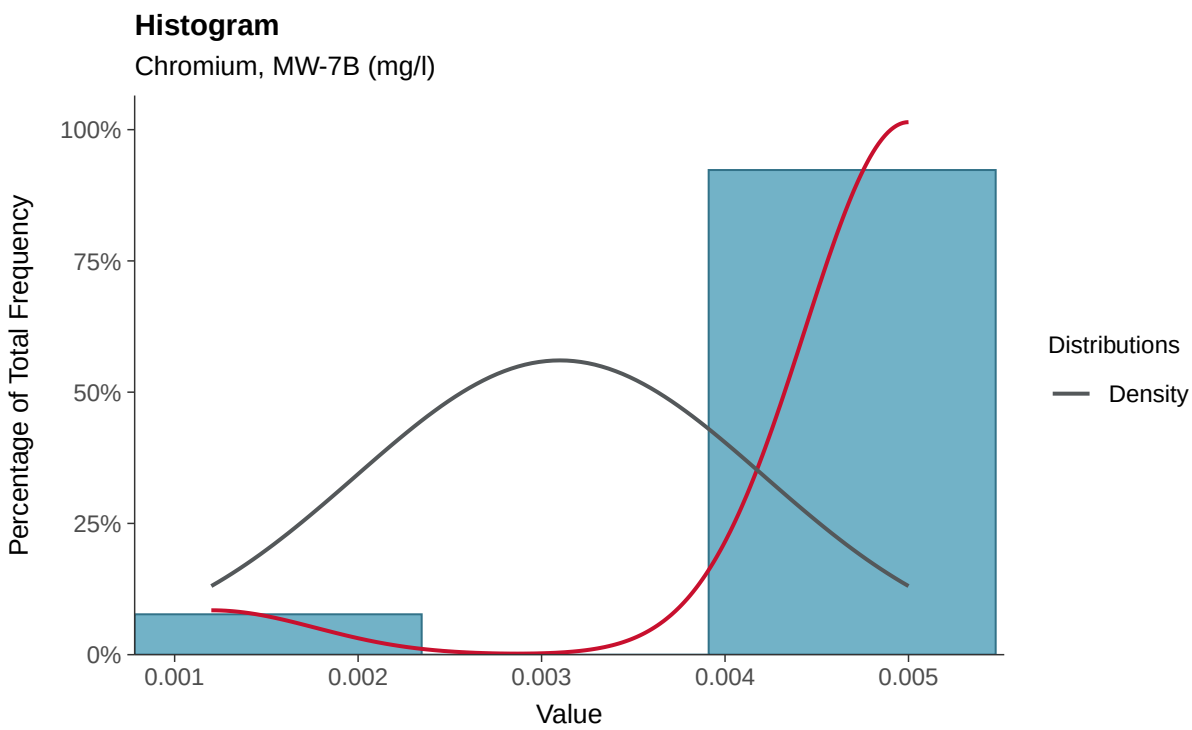
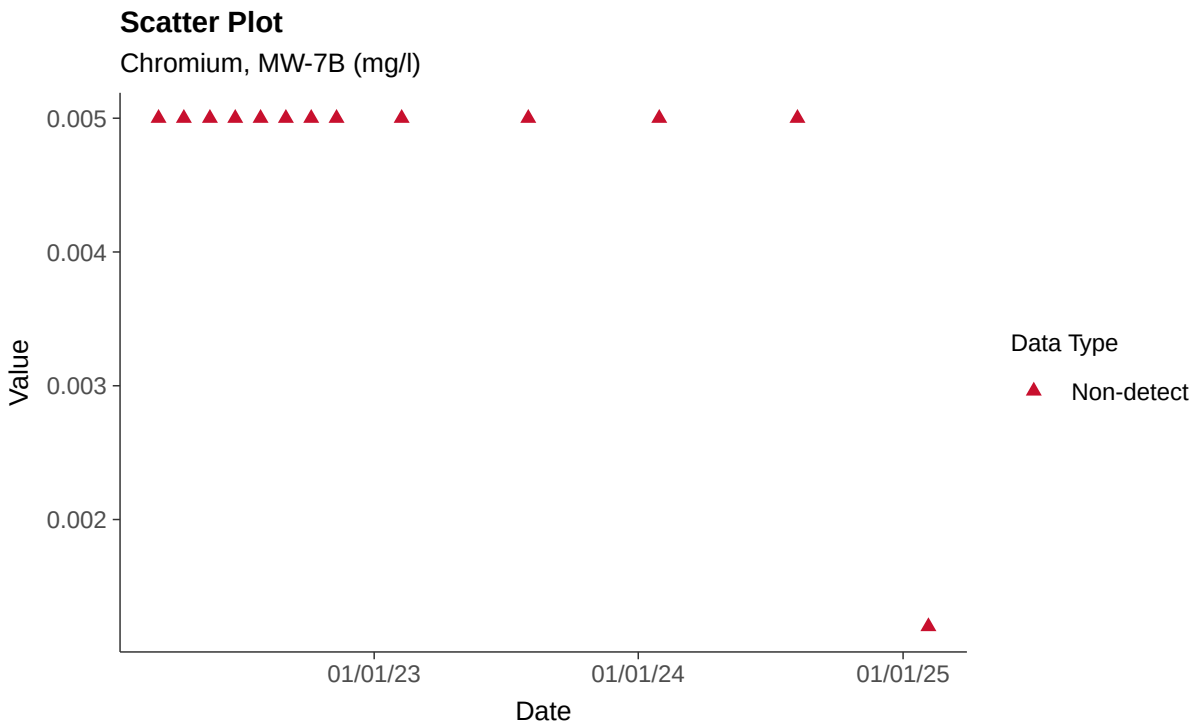


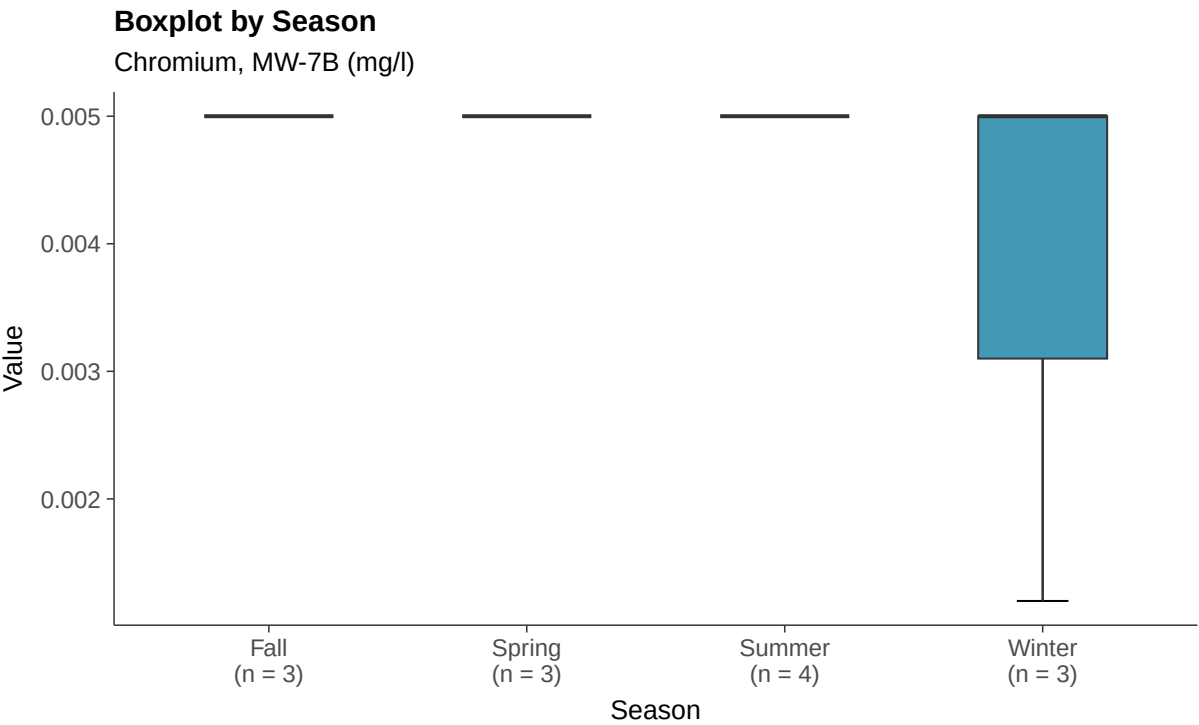
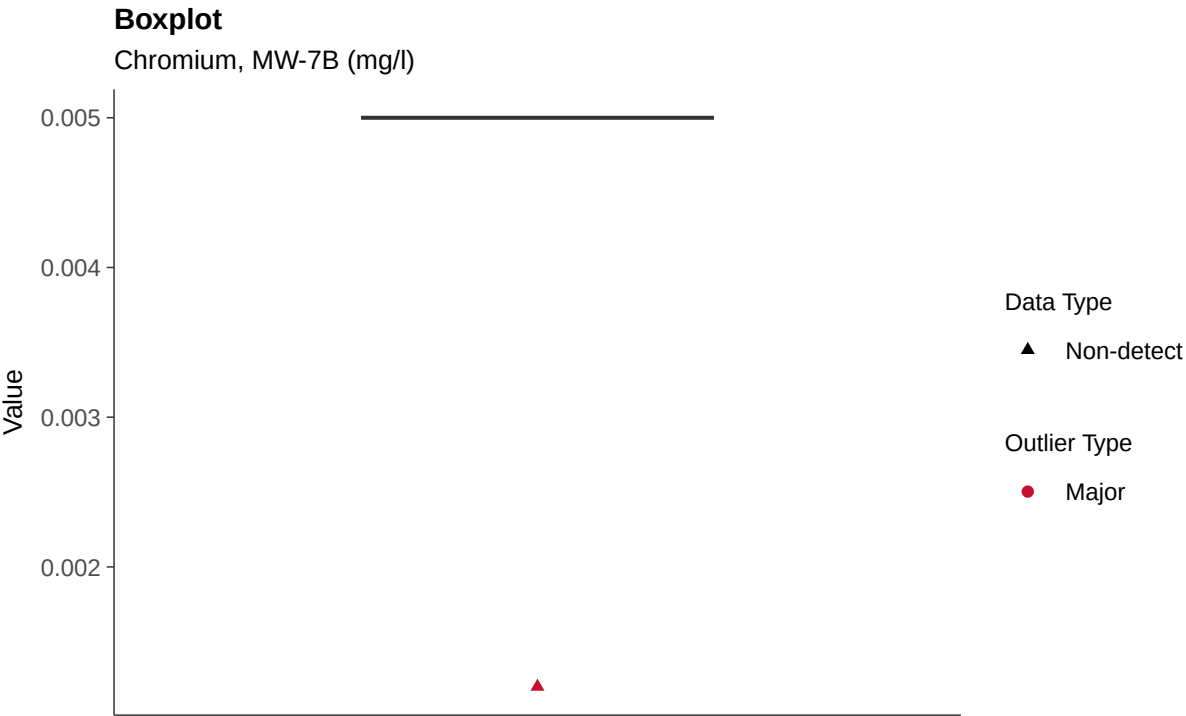




Appendix IV: Chromium, MW-7B

ID: 11_3_109

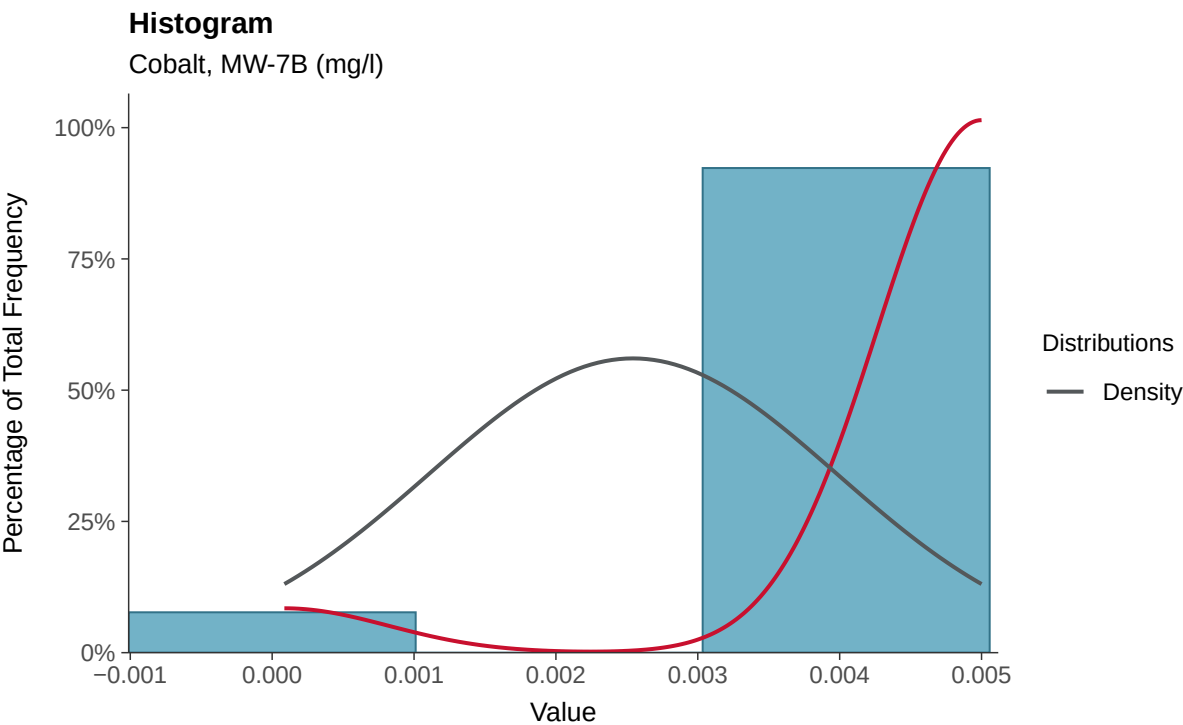
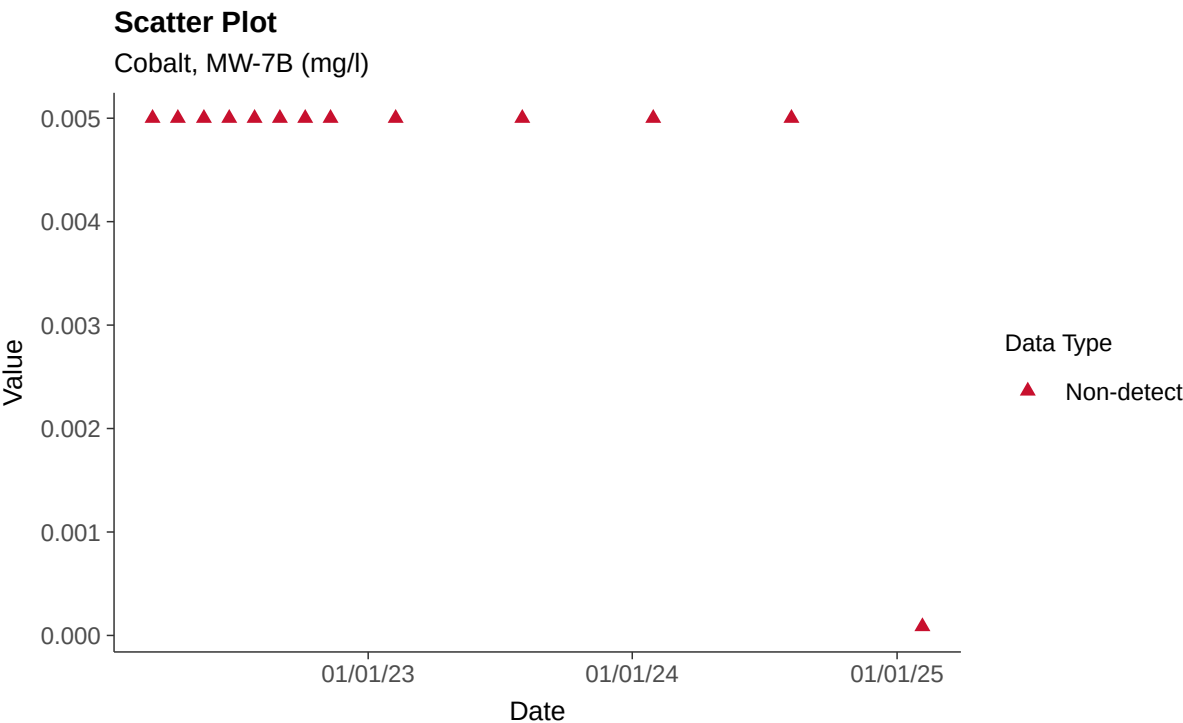


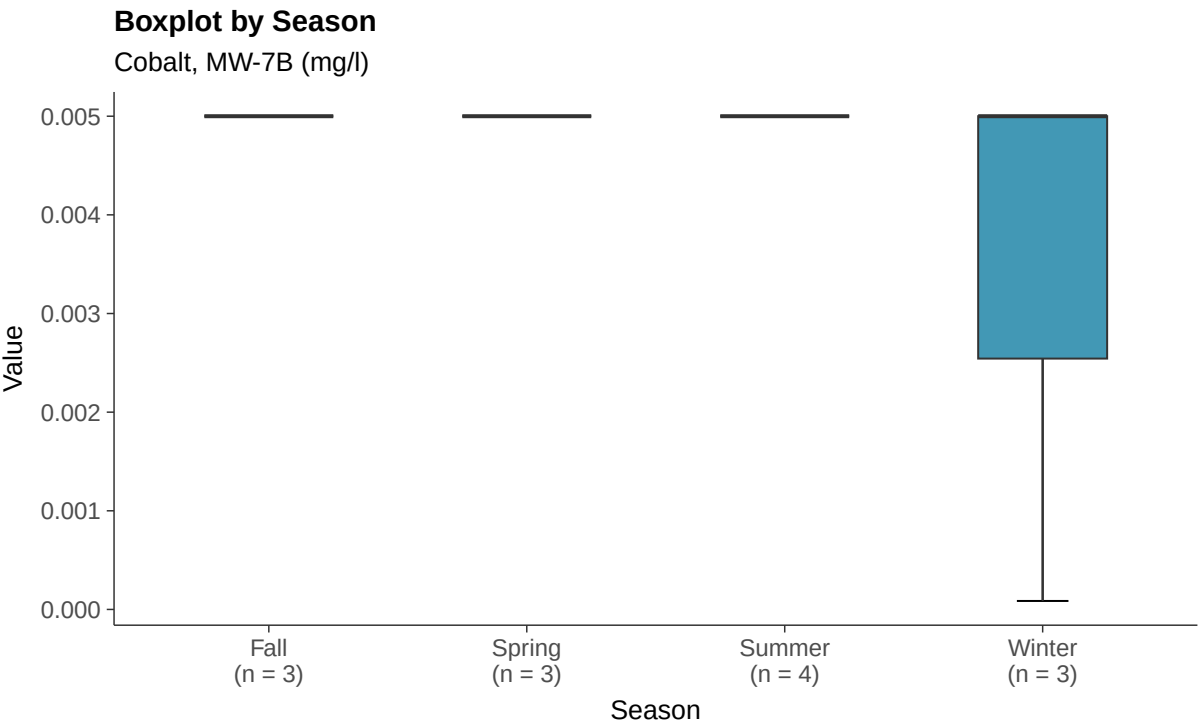
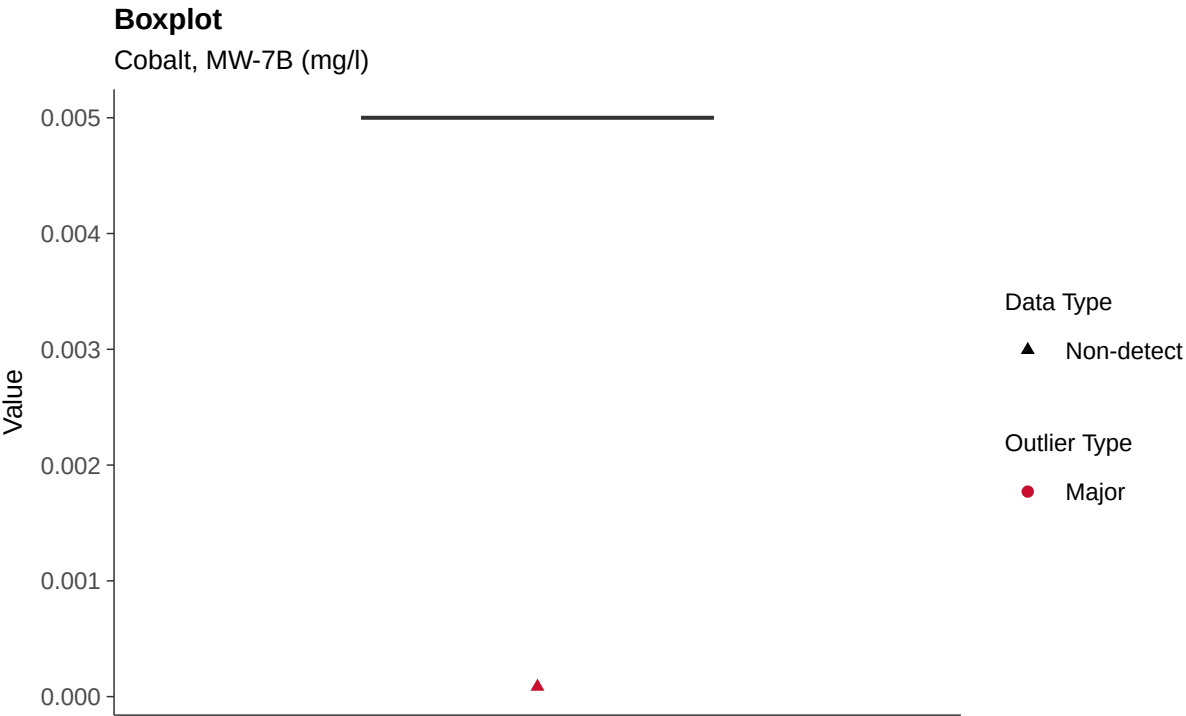




Appendix IV: Cobalt, MW-7B

ID: 11_3_110

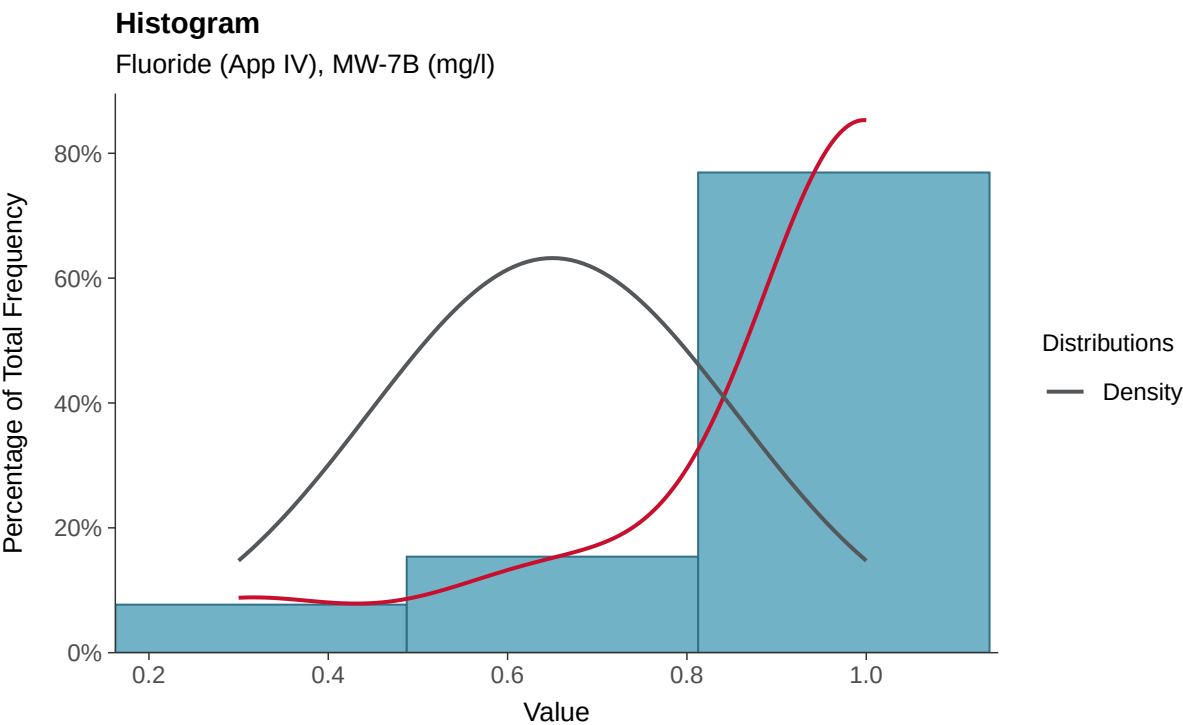
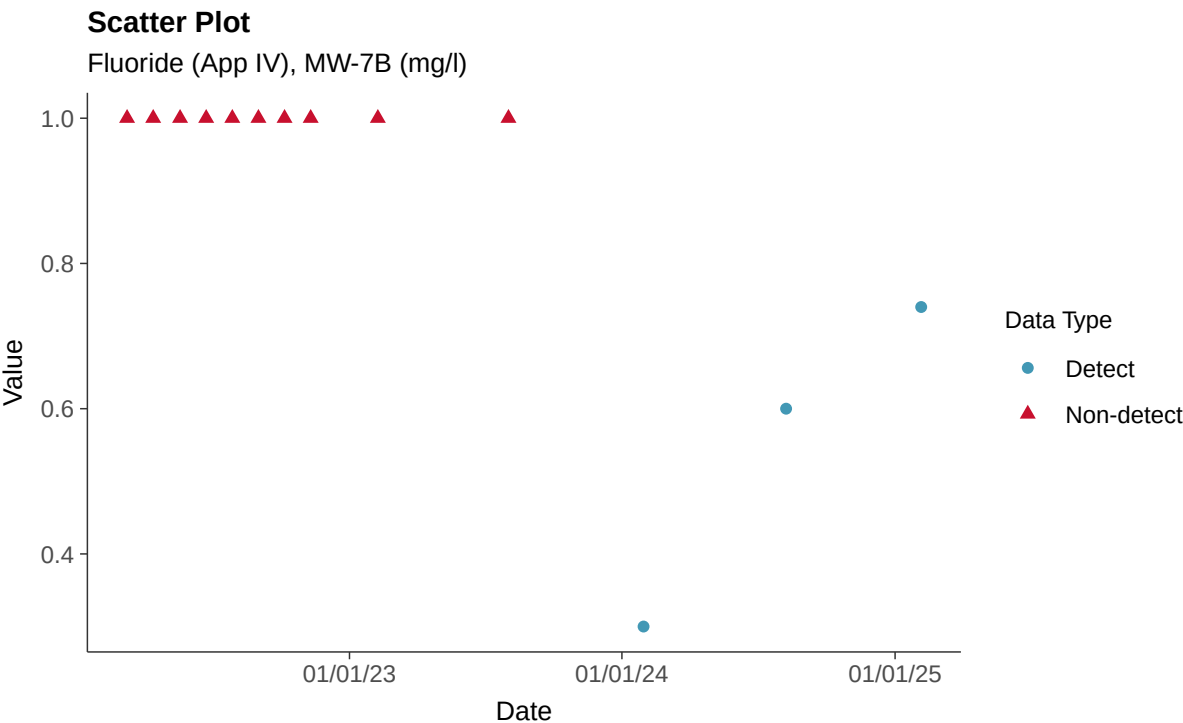


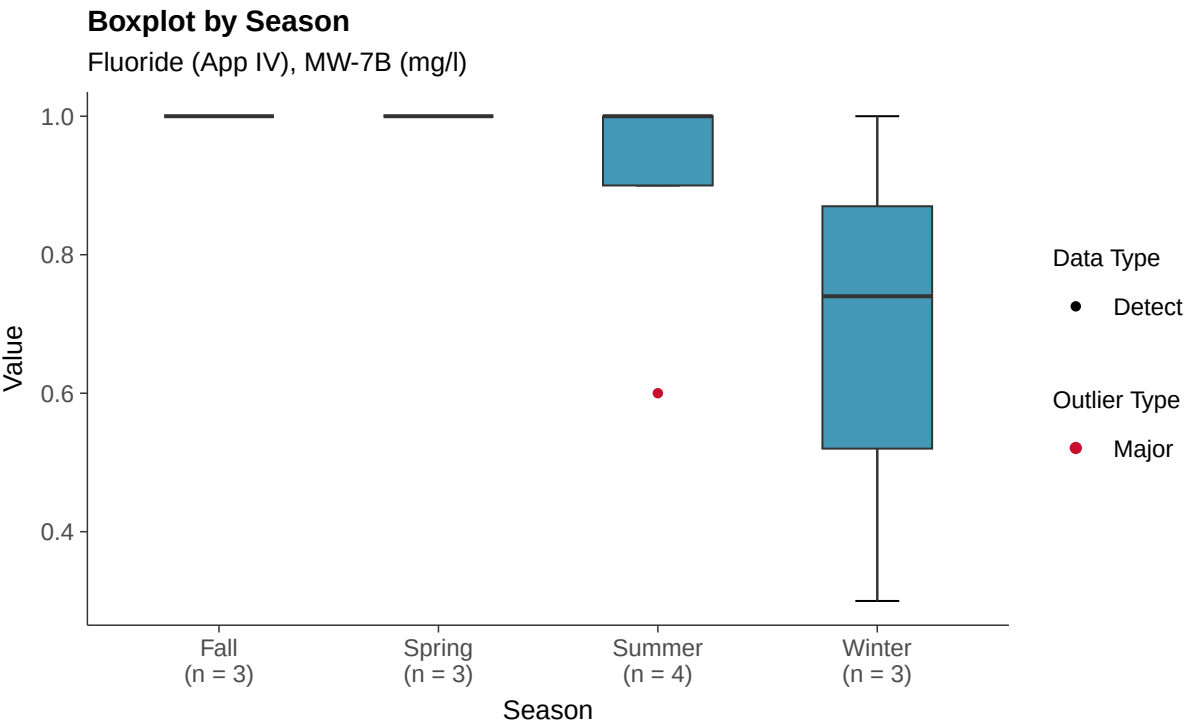
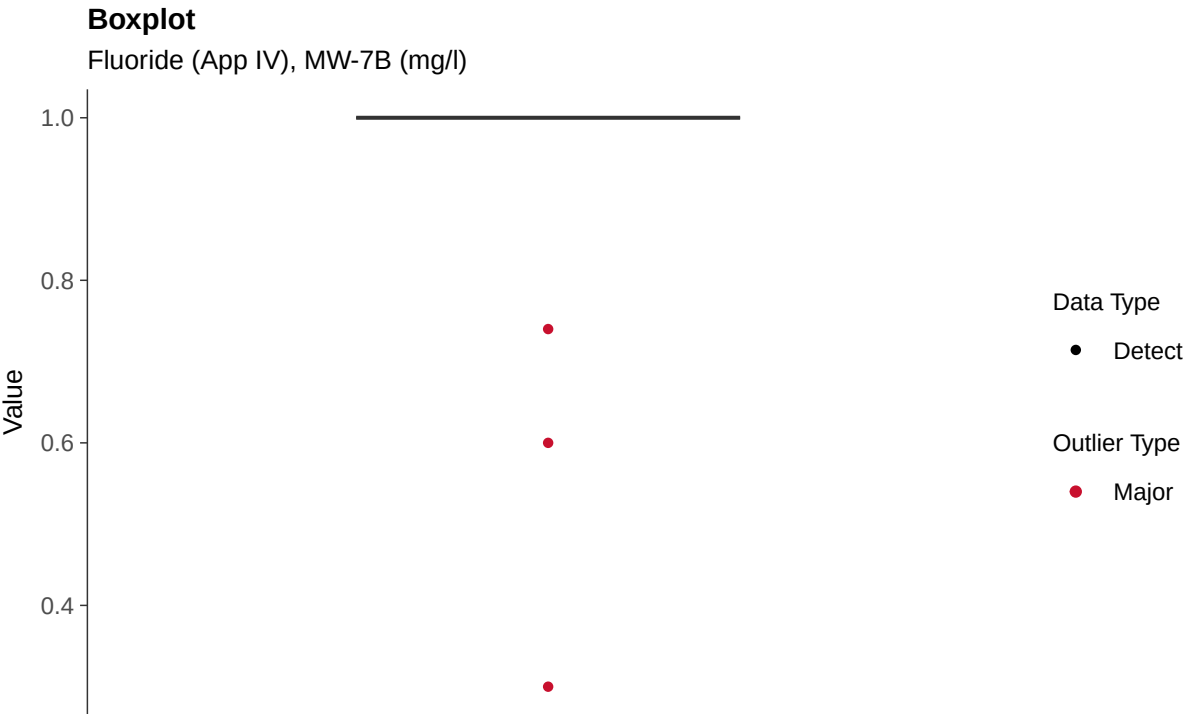




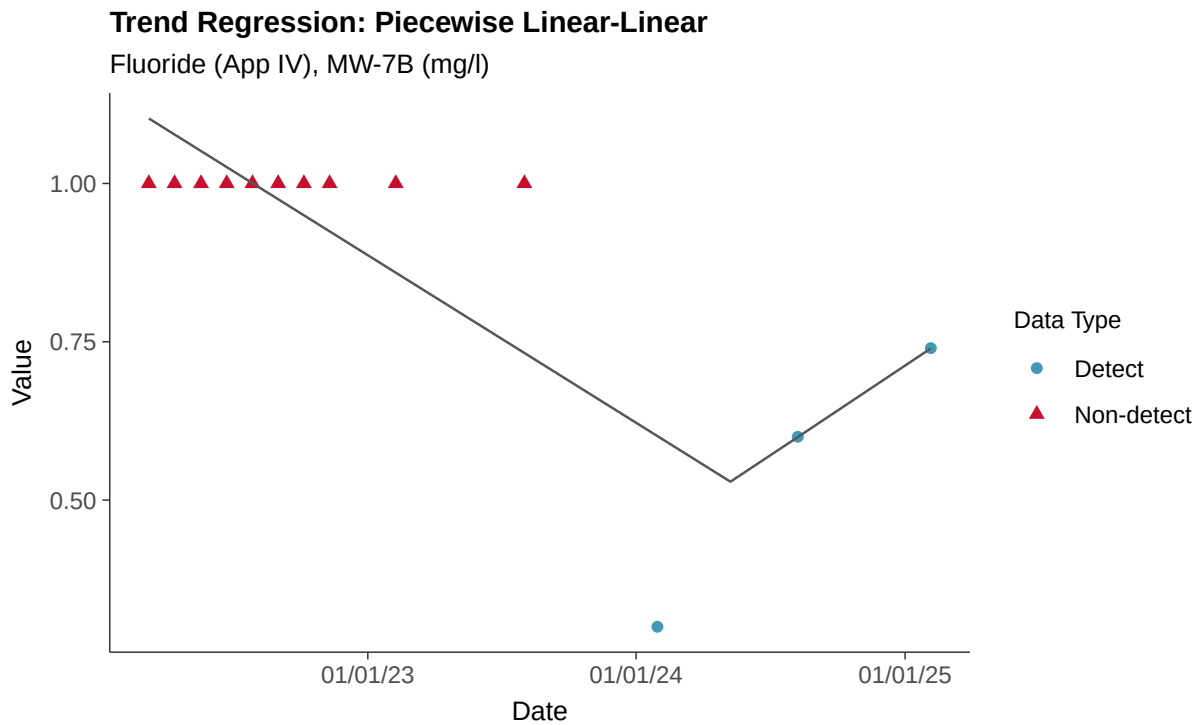
Appendix IV: Fluoride (App IV), MW-7B

ID: 11_3_113





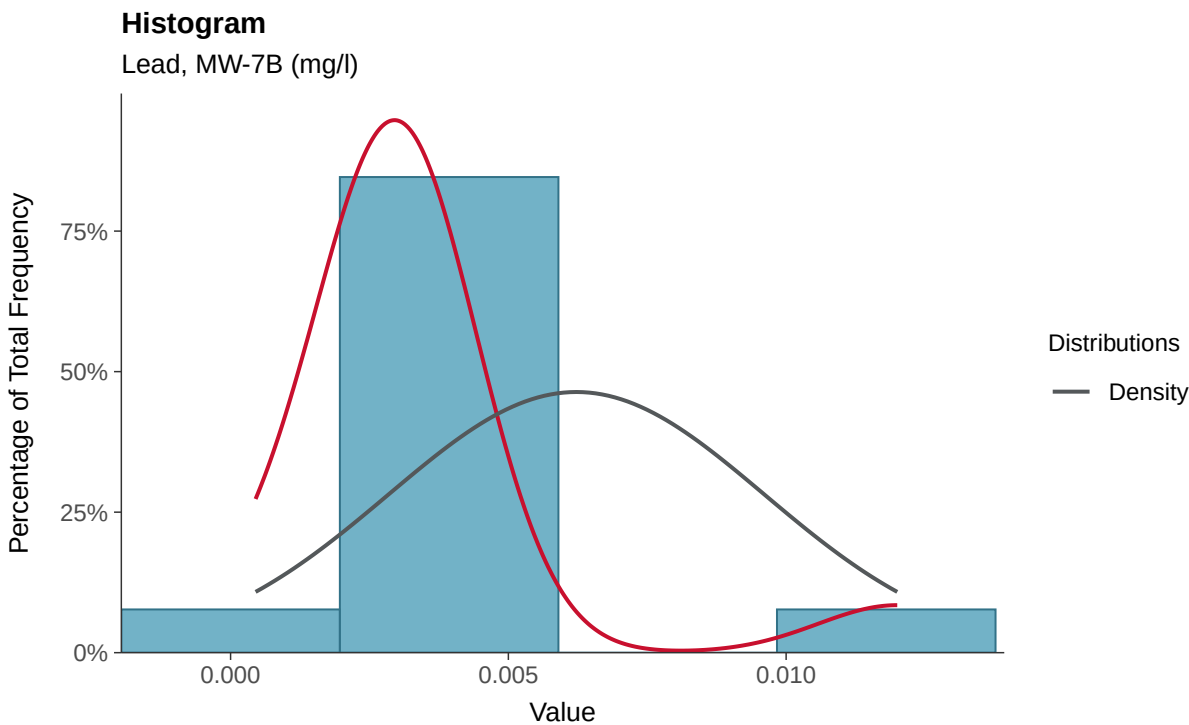
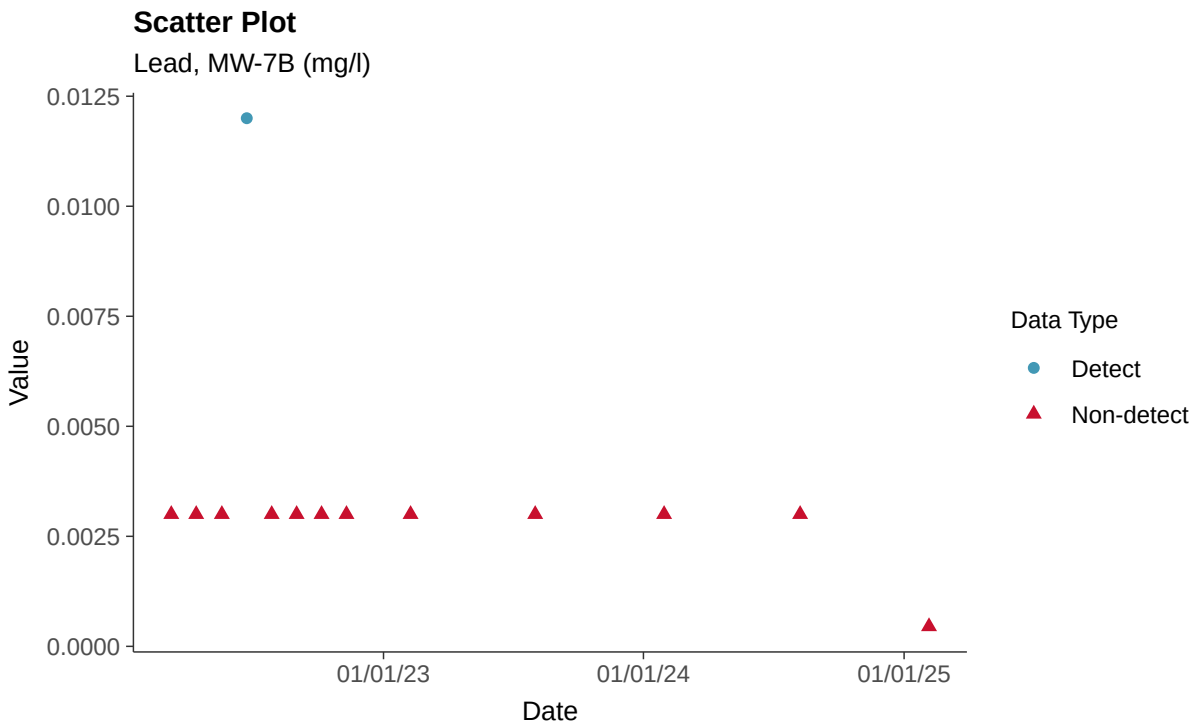
Fluoride (App IV), MW-7B (mg/l)

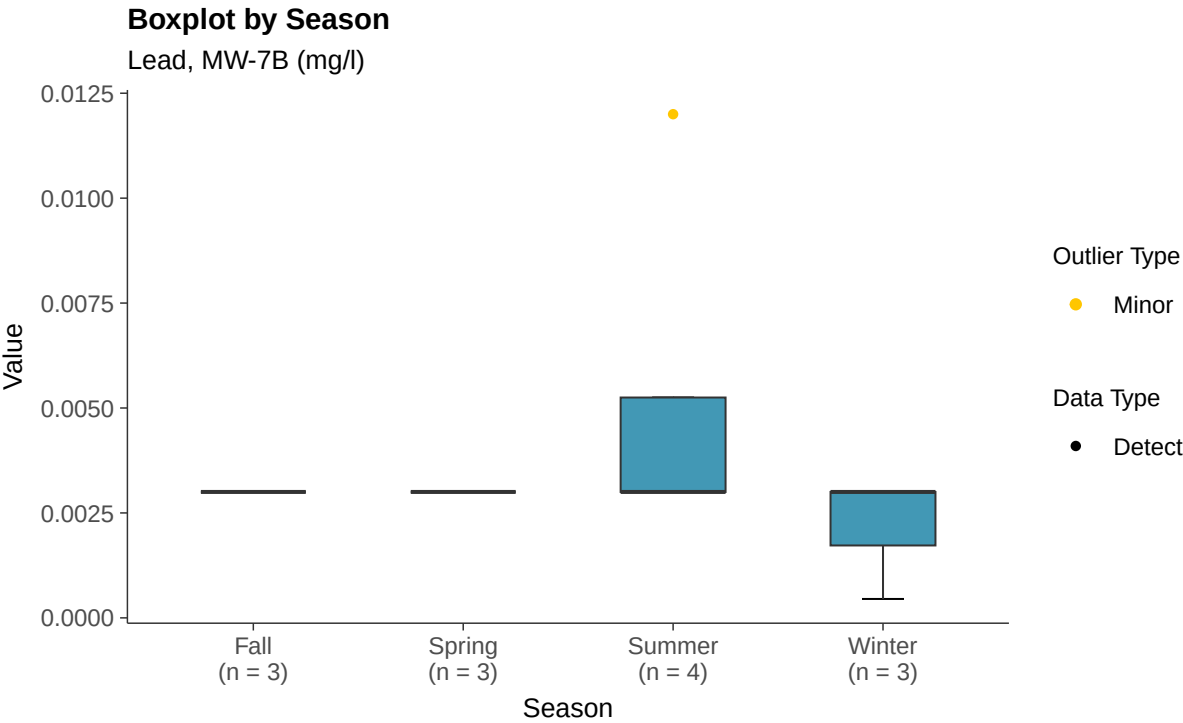
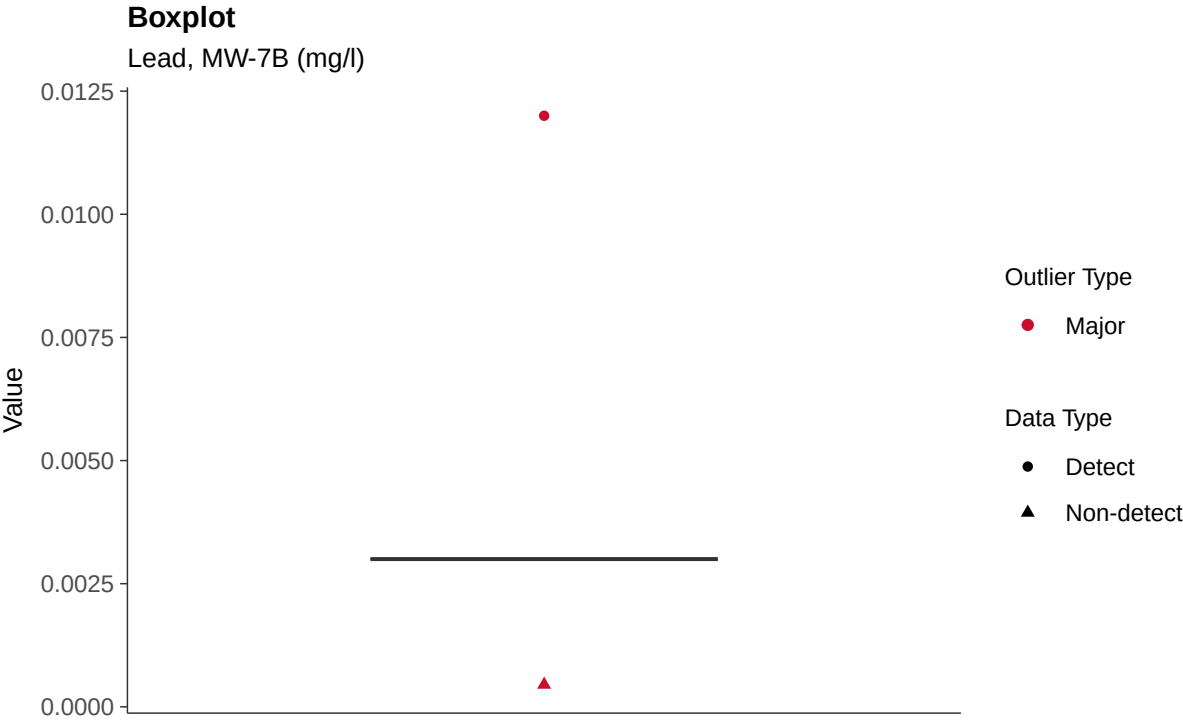


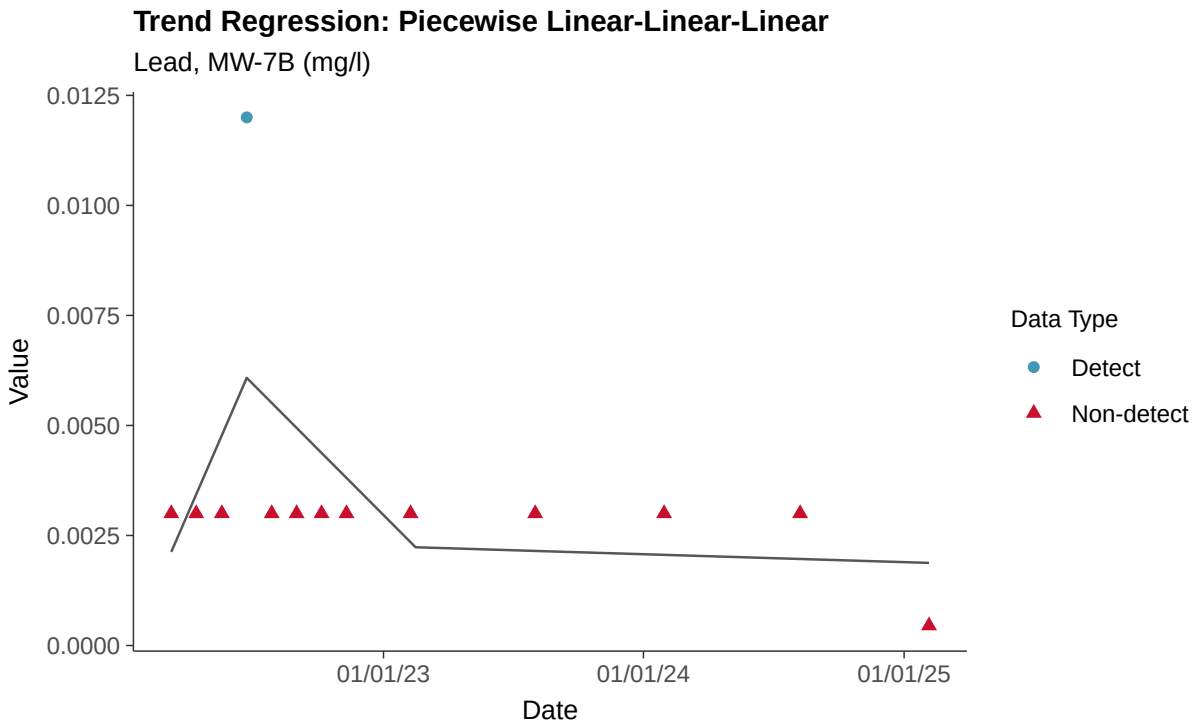
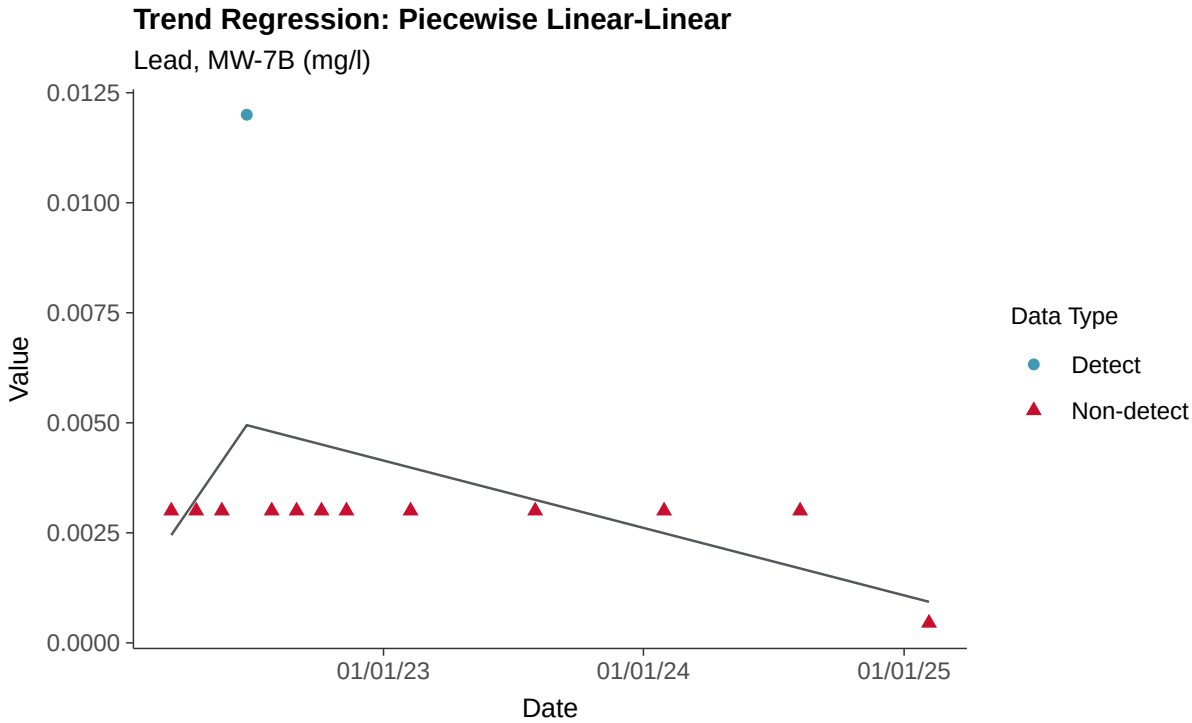


Appendix IV: Lead, MW-7B

ID: 11_3_115



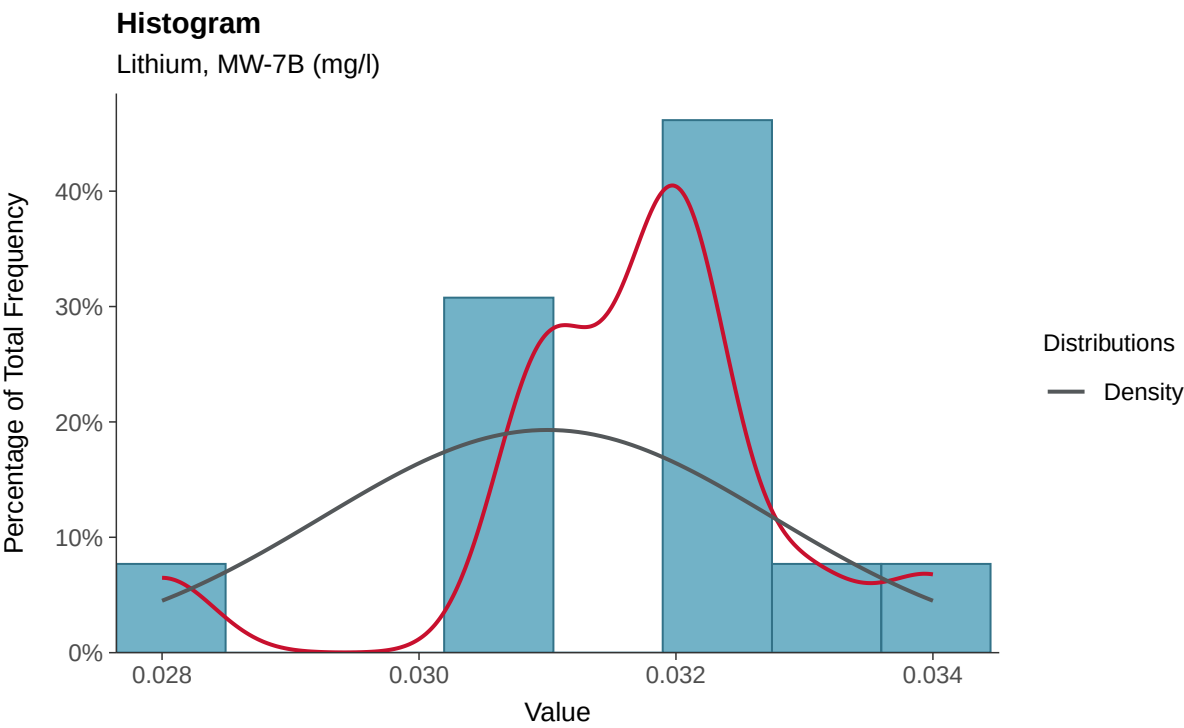
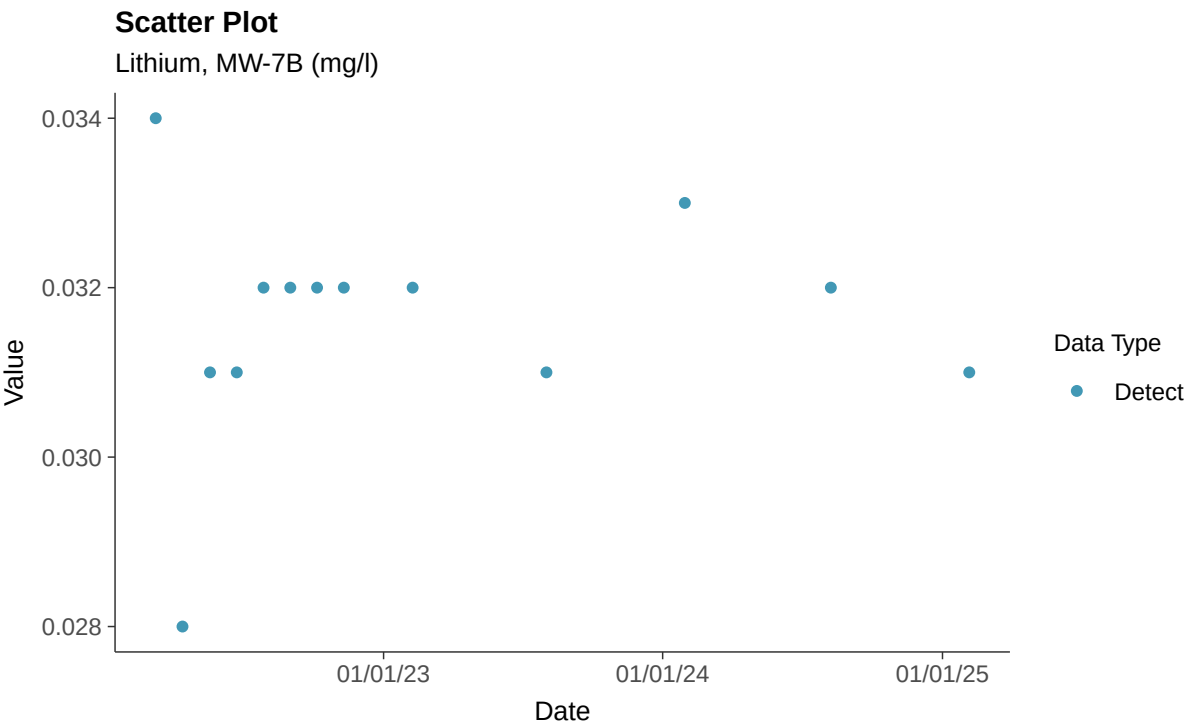


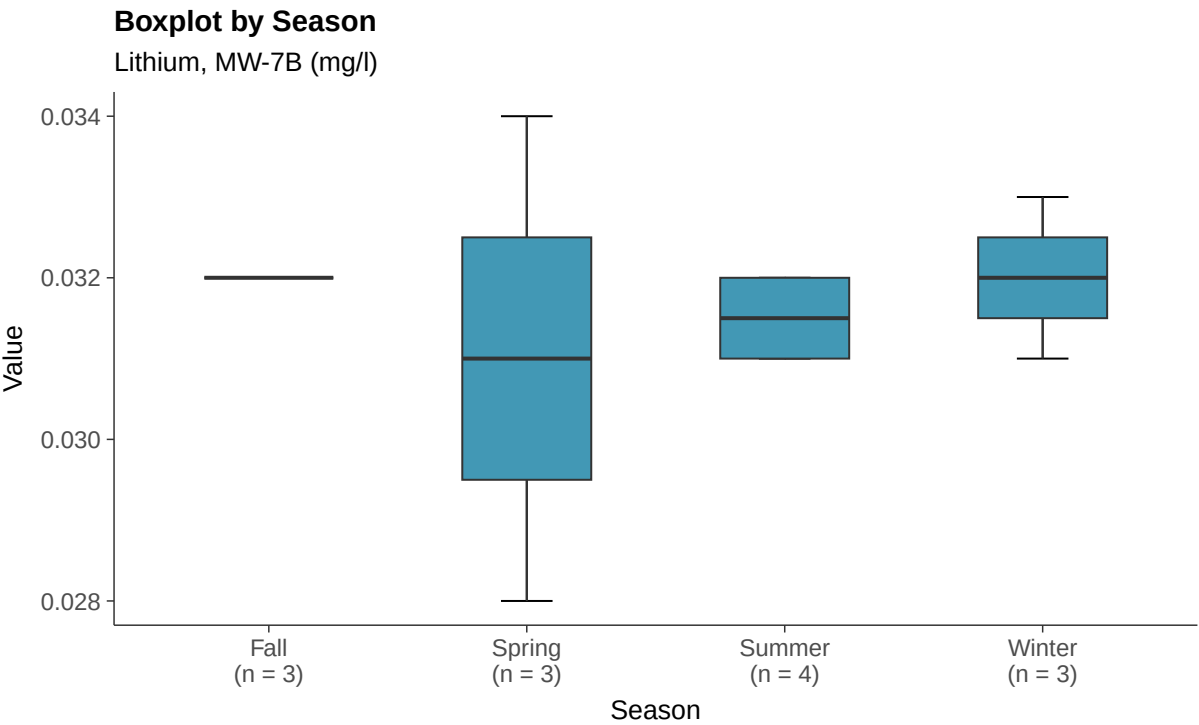
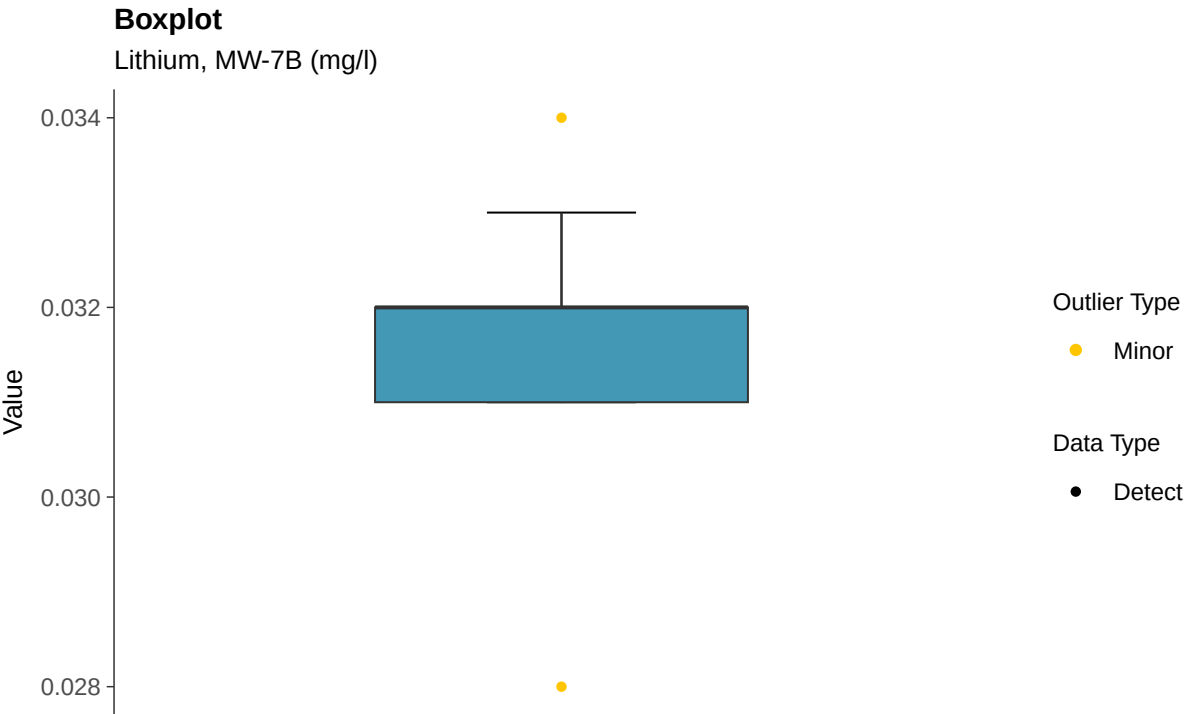




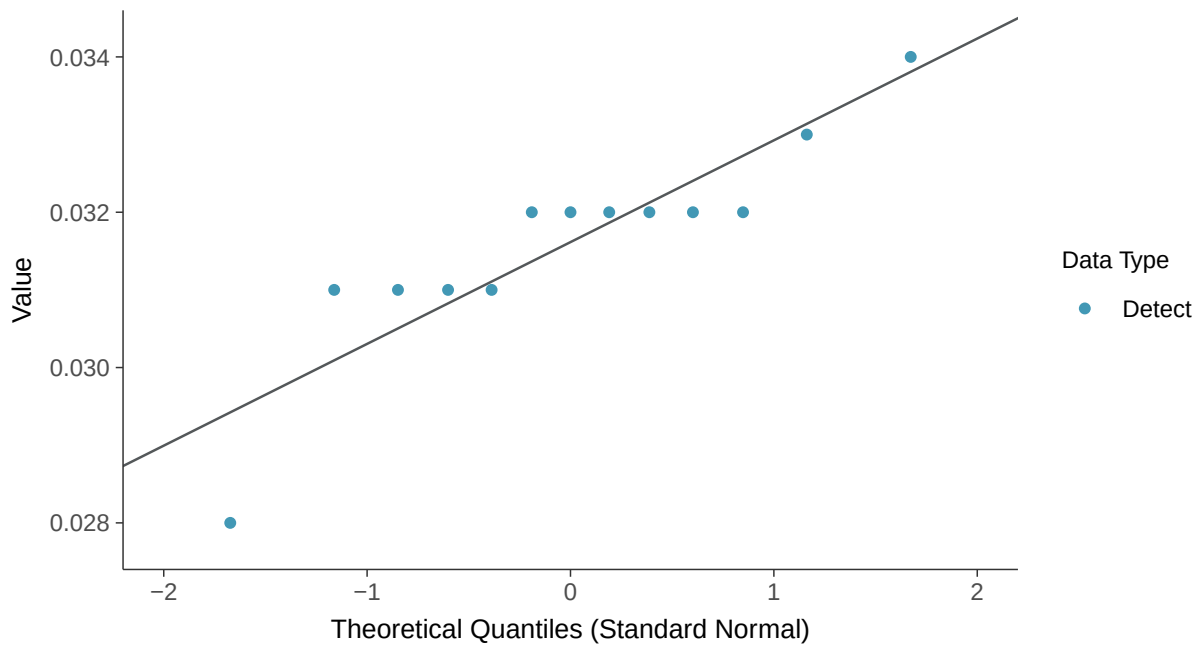
Appendix IV: Lithium, MW-7B

ID: 11_3_116

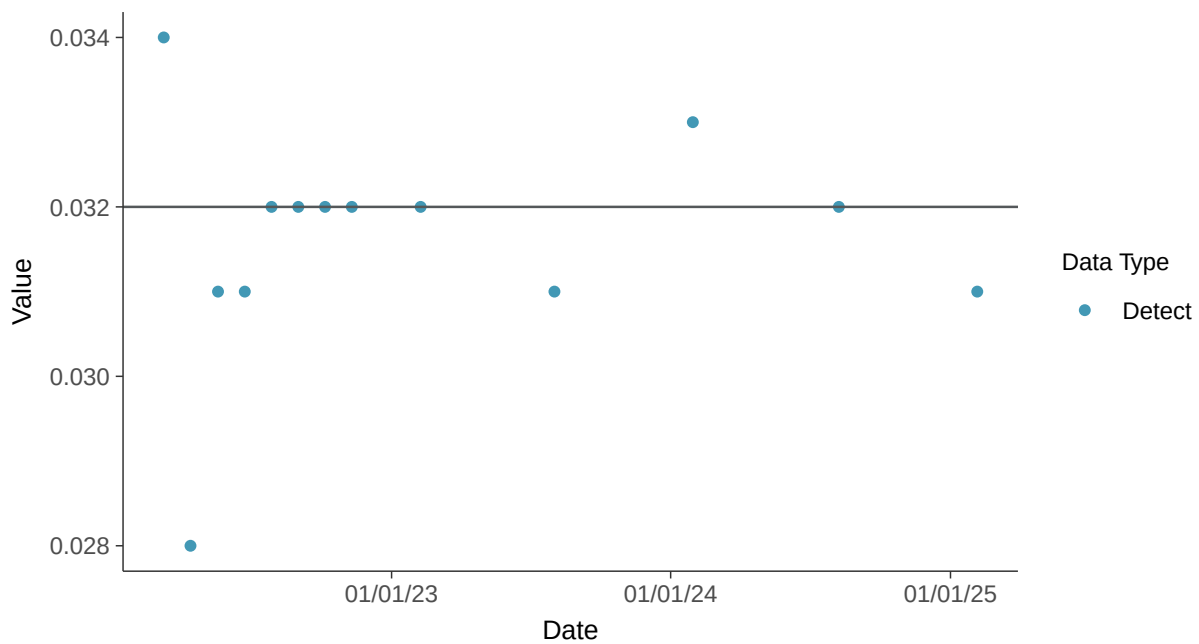


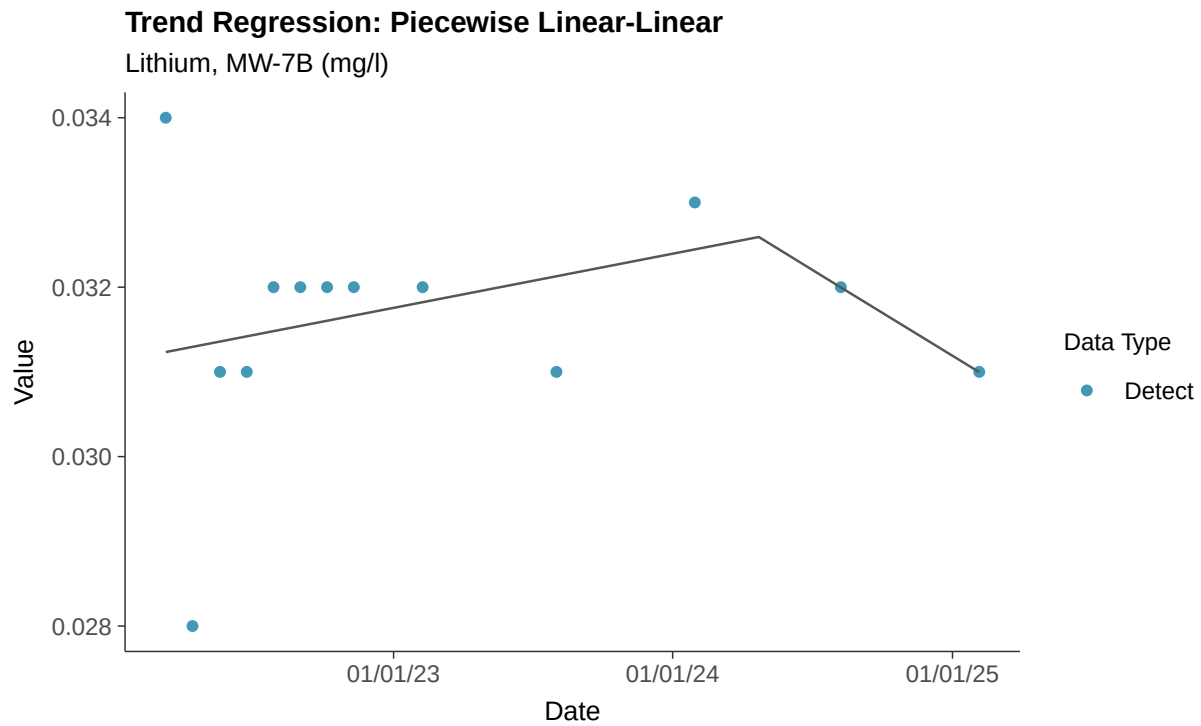


Lithium, MW-7B (mg/l)



Lithium, MW-7B (mg/l)

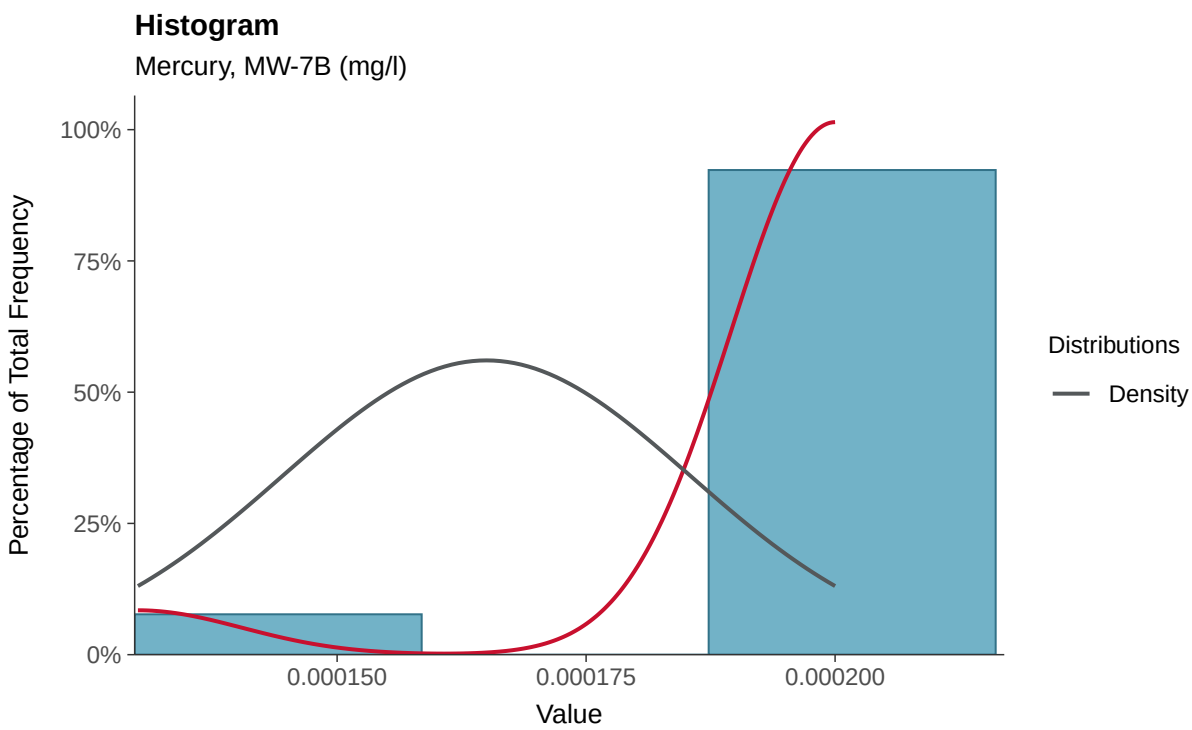
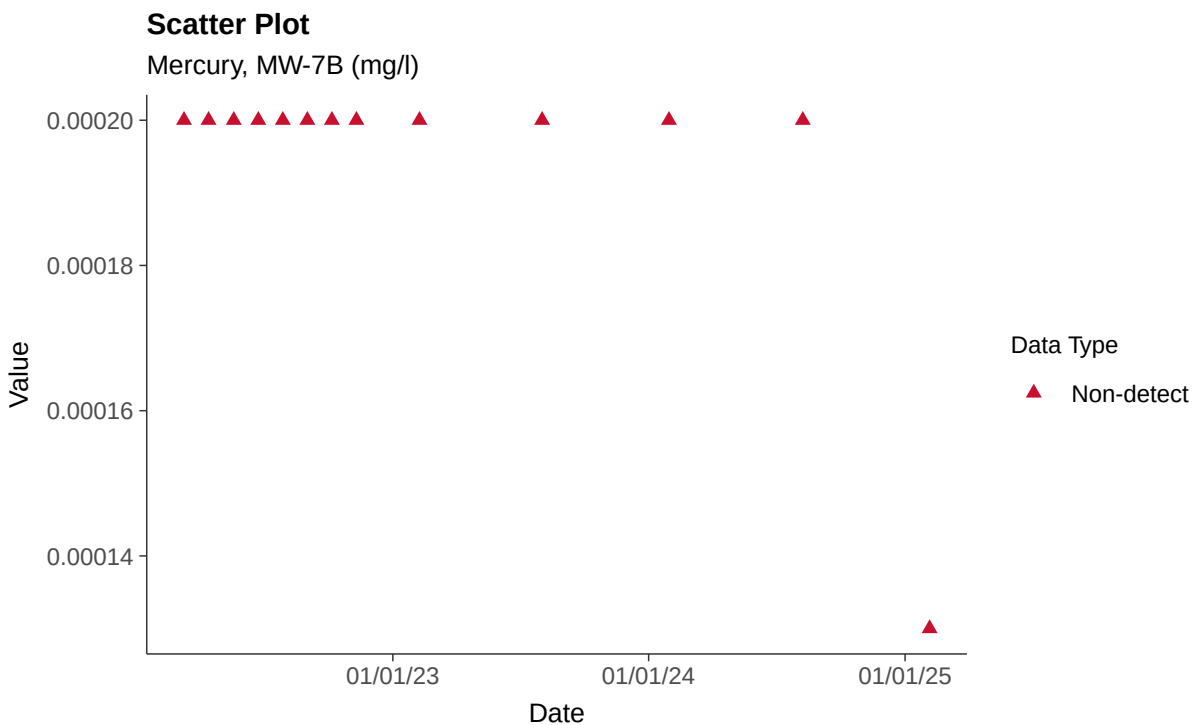


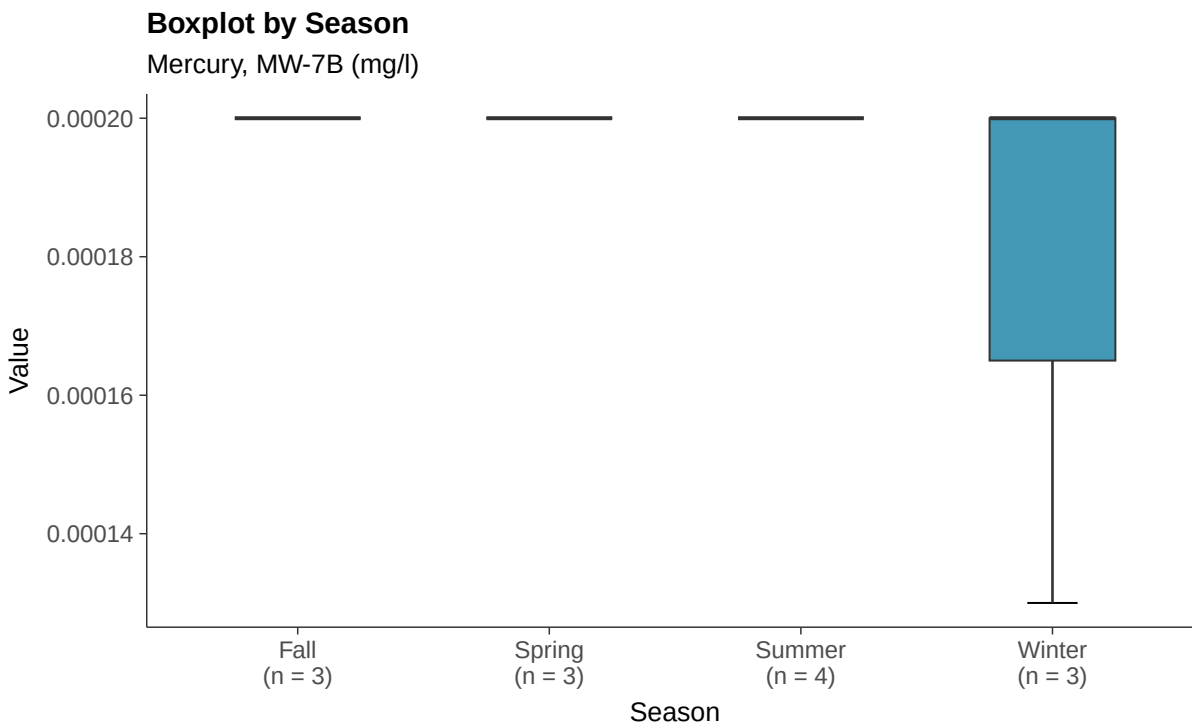
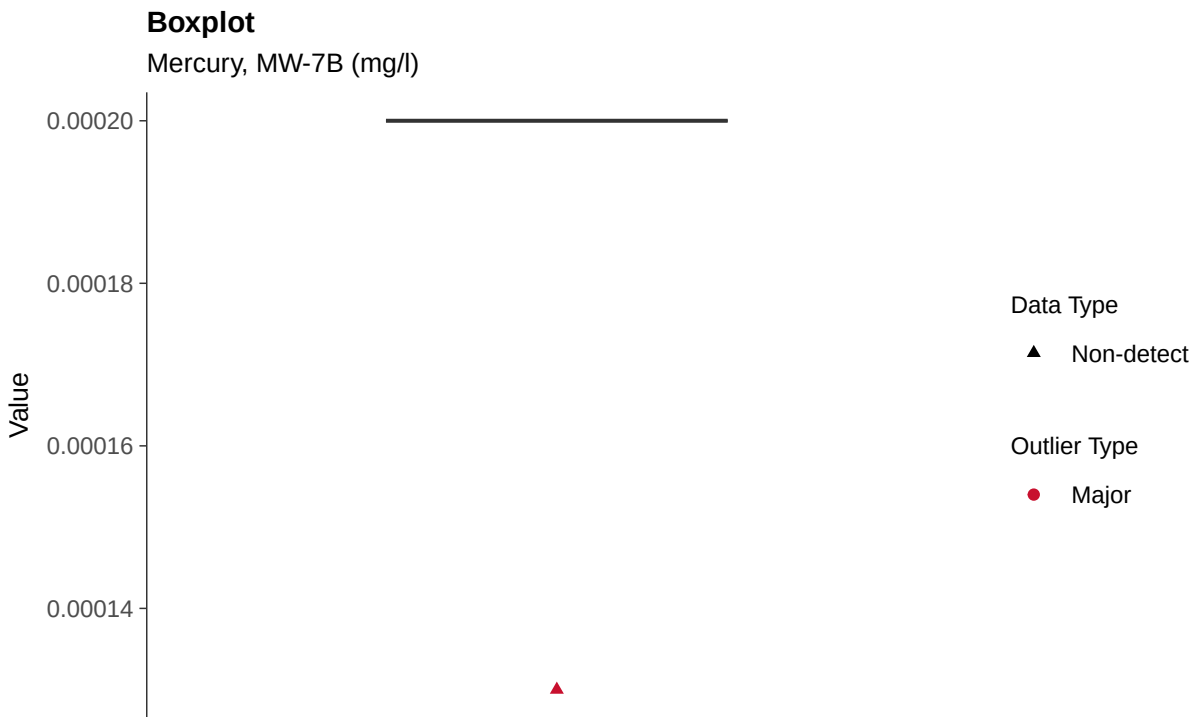




Appendix IV: Mercury, MW-7B

ID: 11_3_117

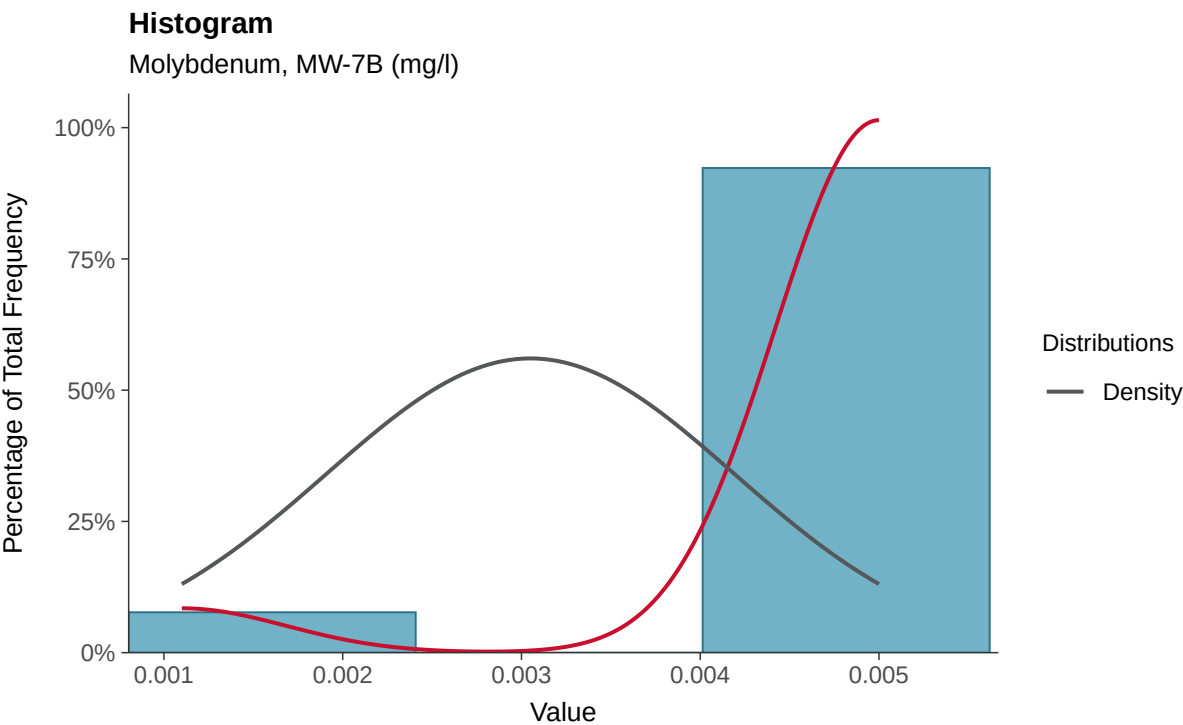
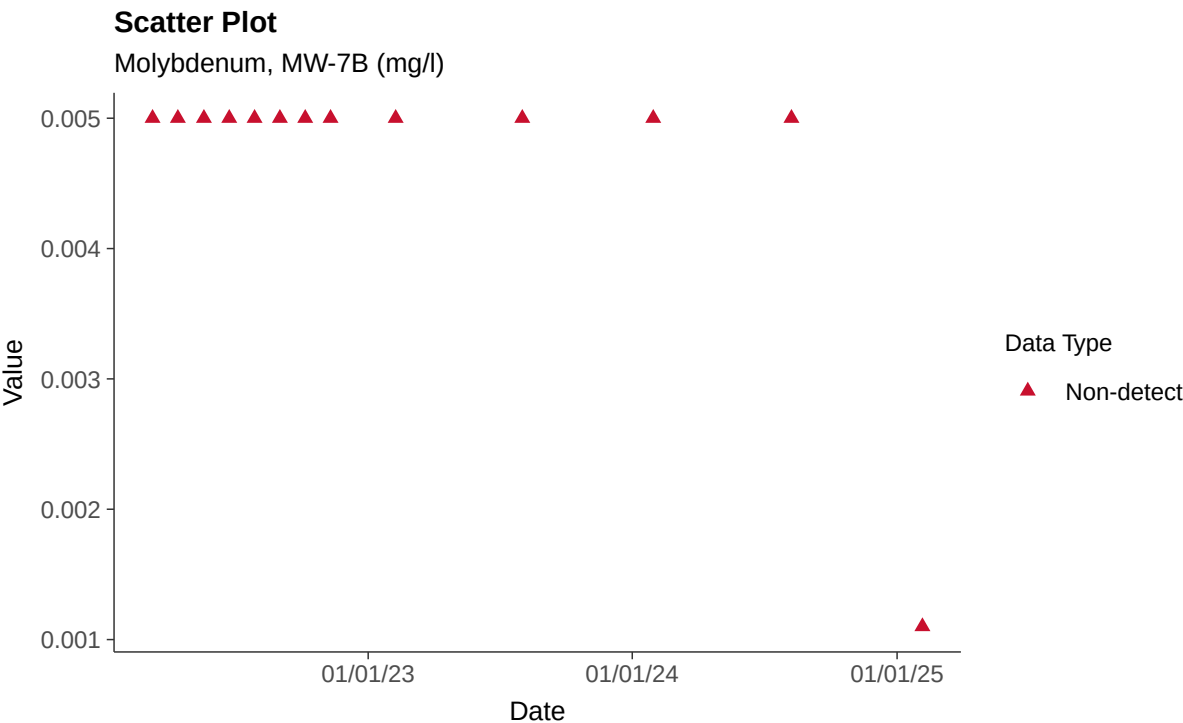


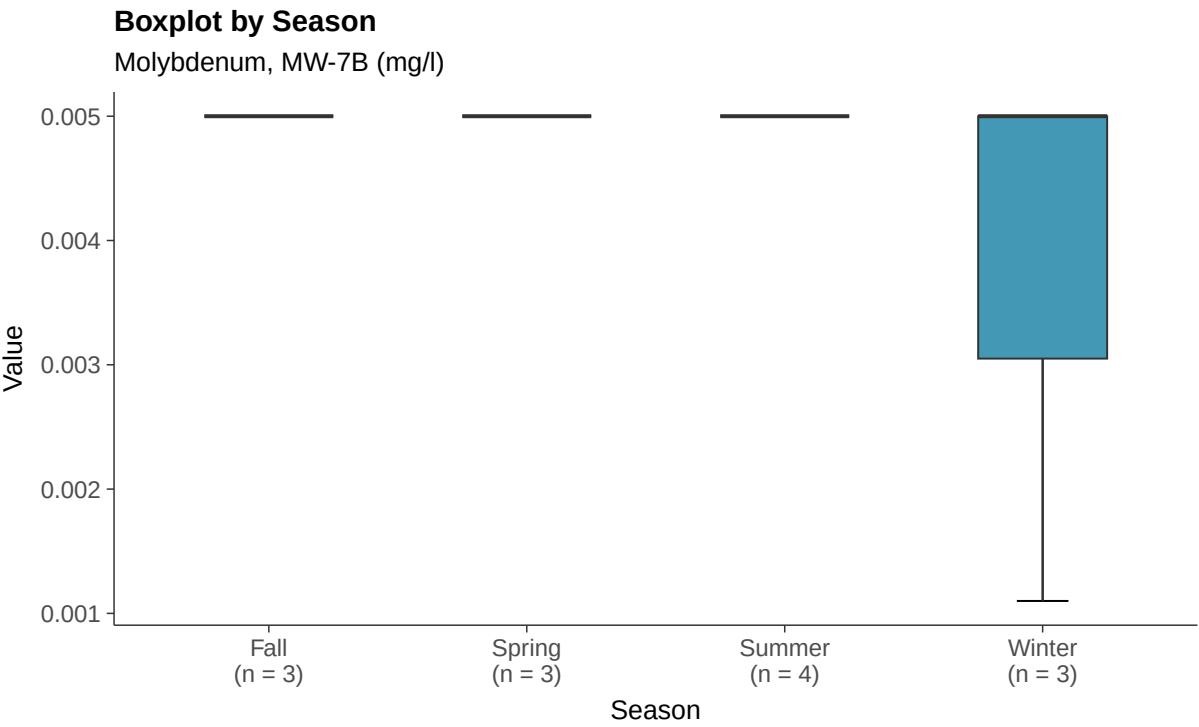
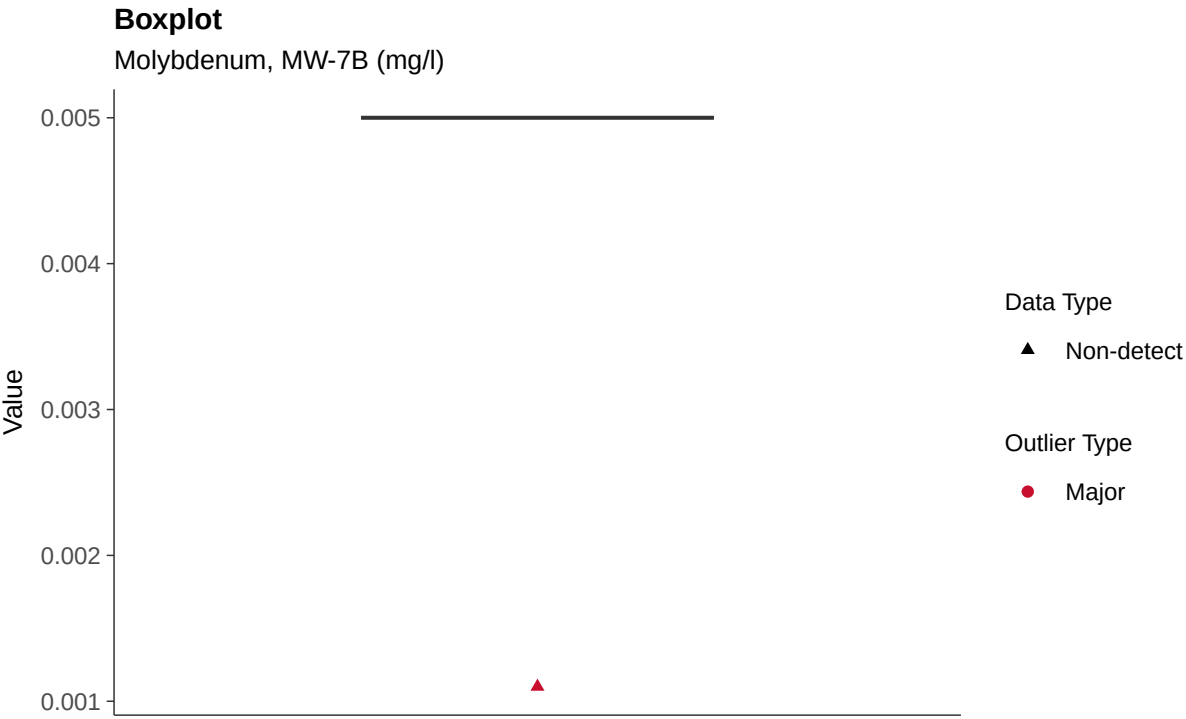




Appendix IV: Molybdenum, MW-7B

ID: 11_3_118

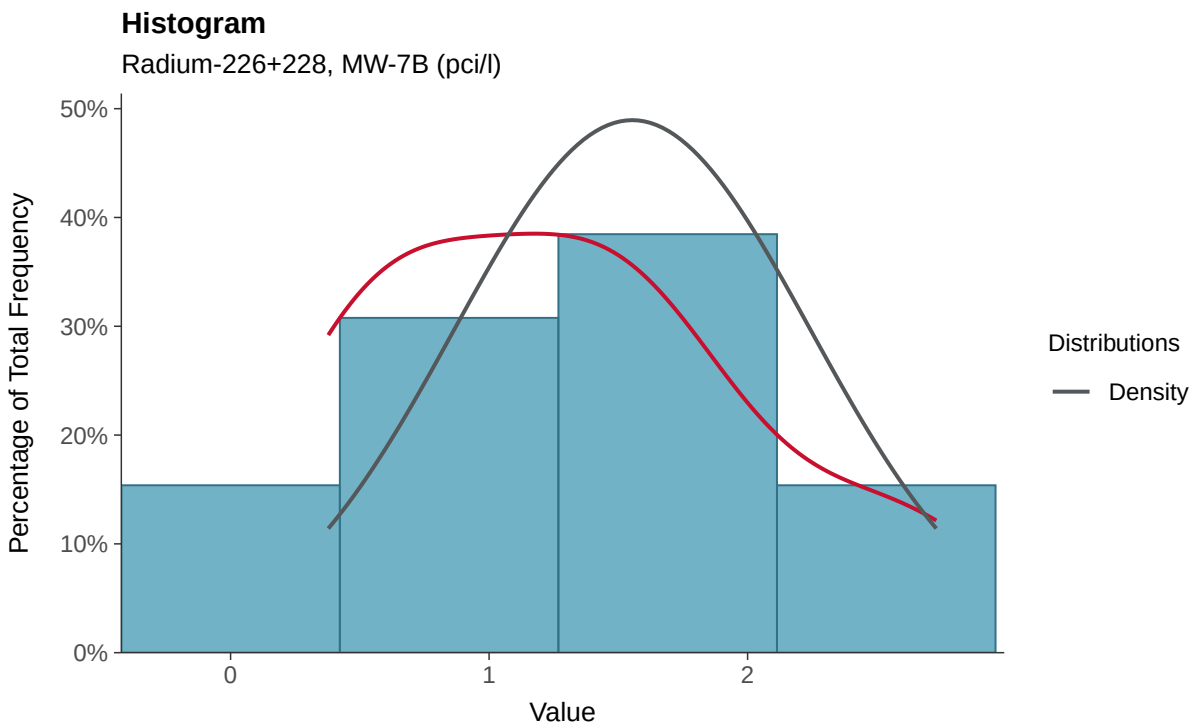
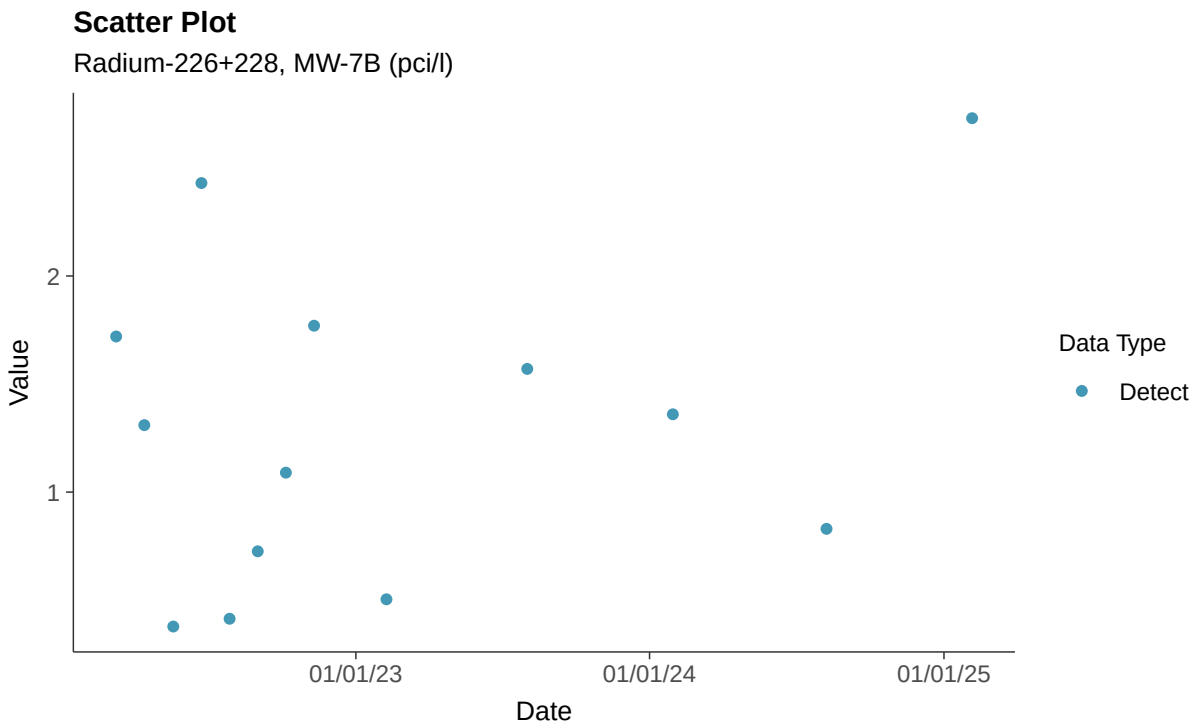






Appendix IV: Radium-226+228, MW-7B

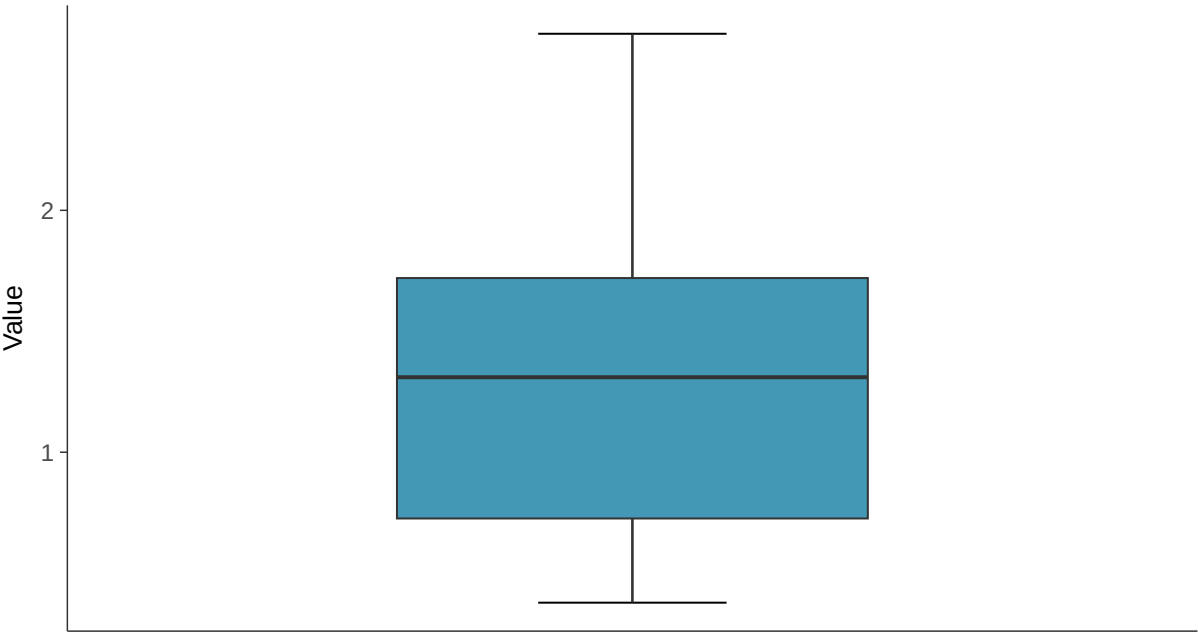
ID: 11_3_121





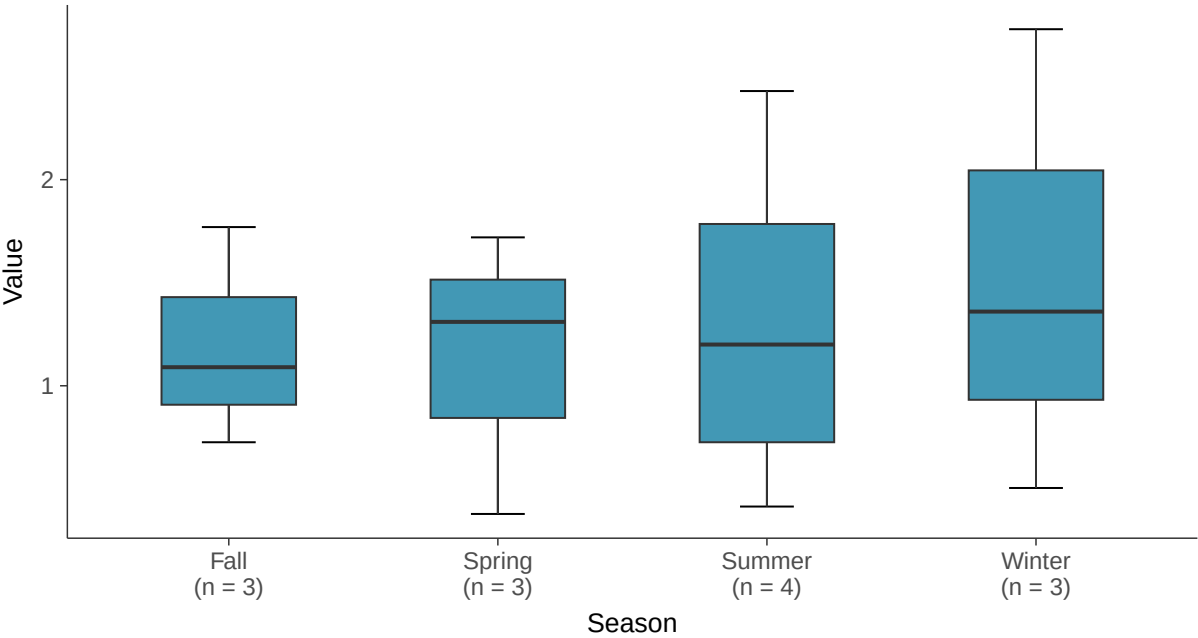
Boxplot

Radium-226+228, MW-7B (pci/l)



Boxplot by Season

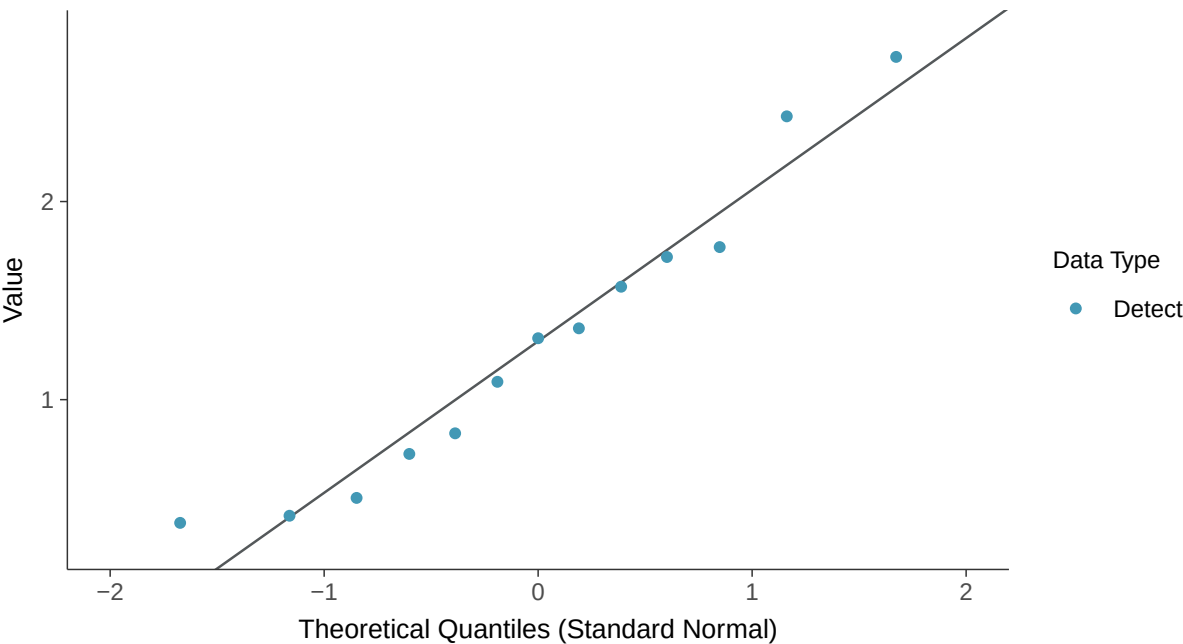
Radium-226+228, MW-7B (pci/l)





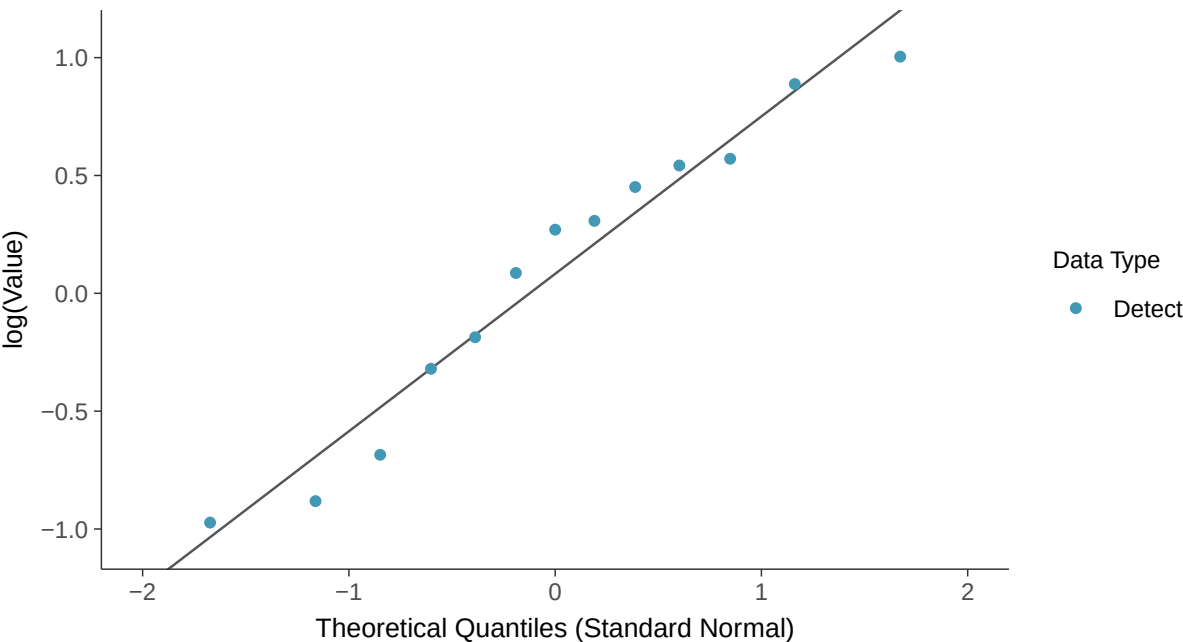
Normal Q-Q plot

Radium-226+228, MW-7B (pci/l)



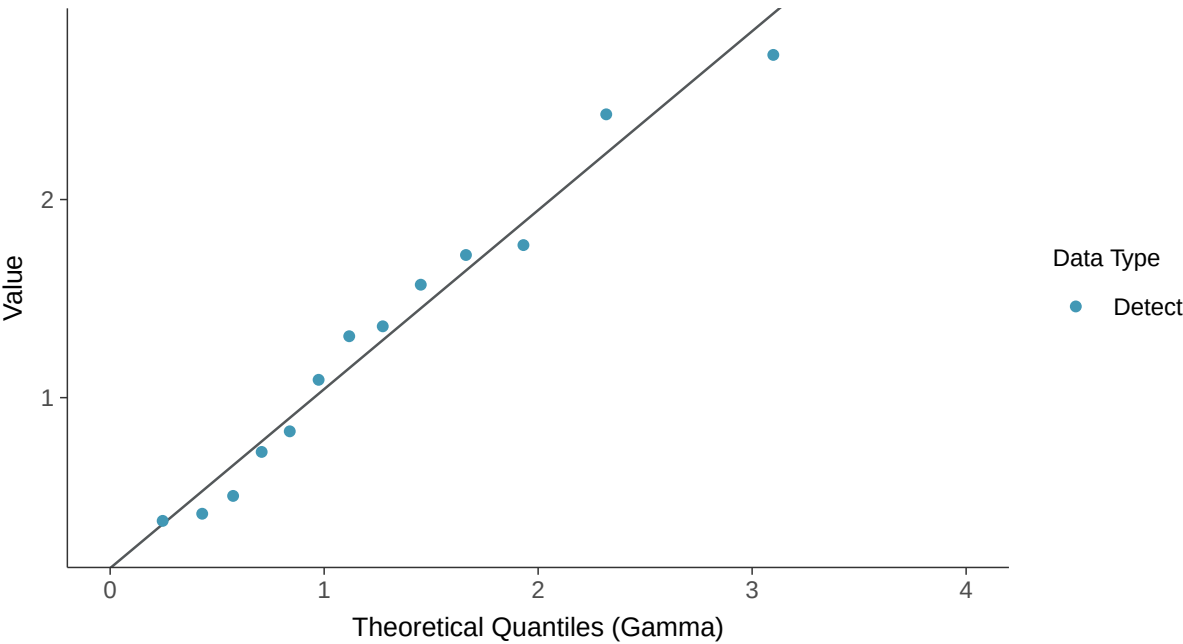
Lognormal Q-Q plot

Radium-226+228, MW-7B (pci/l)

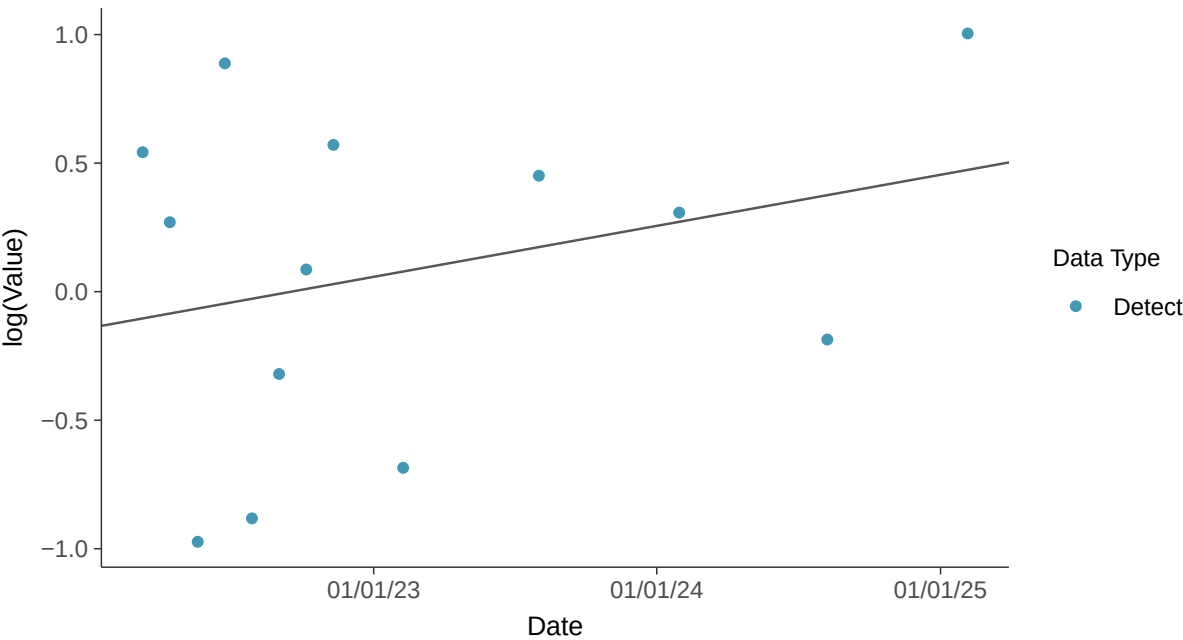




Gamma Q-Q plot
Radium-226+228, MW-7B (pci/l)



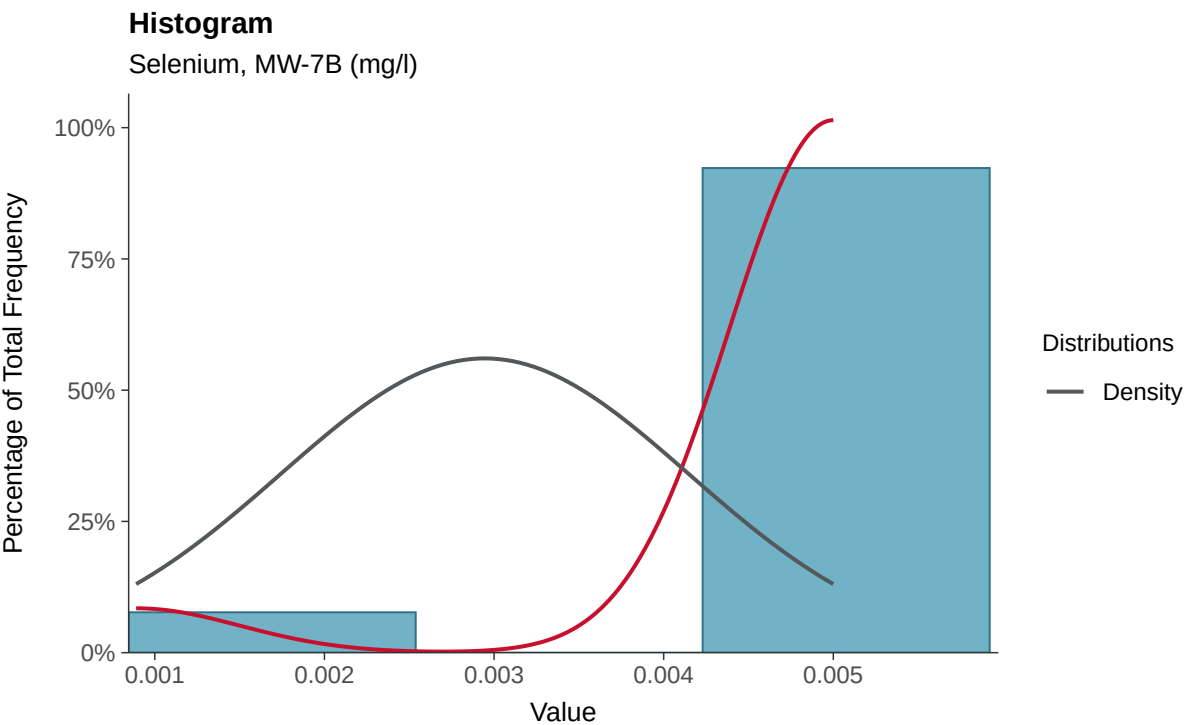
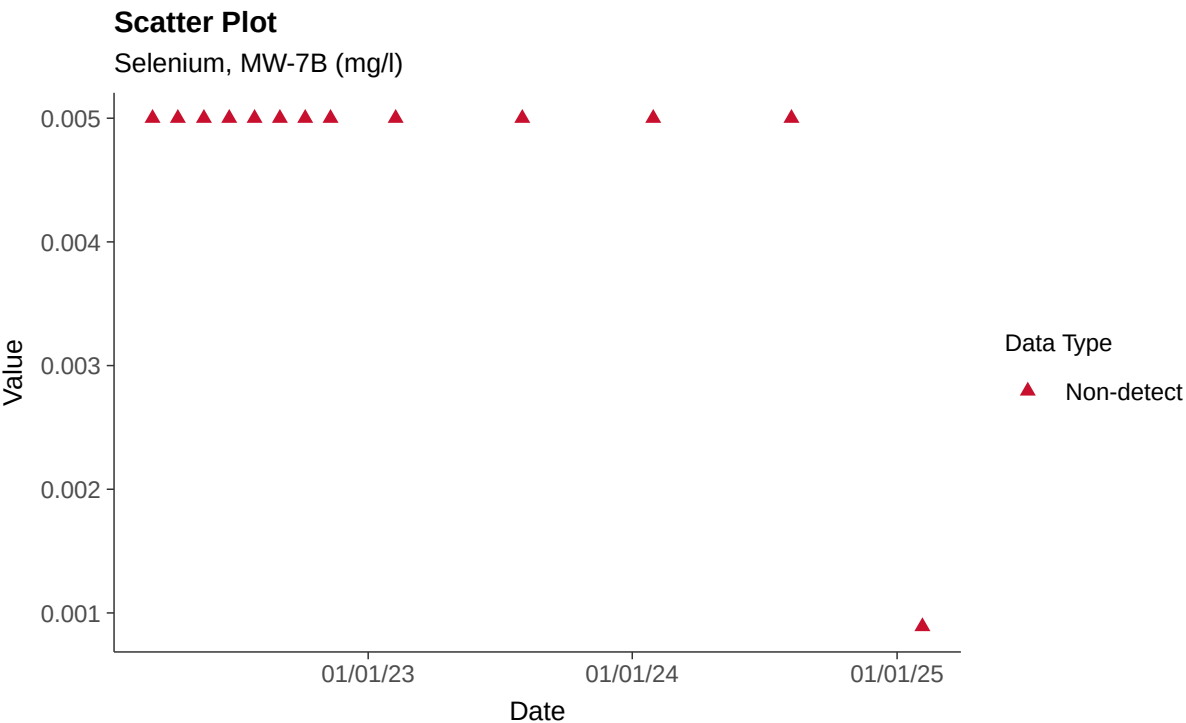
Trend Regression: Lognormal MLE
Radium-226+228, MW-7B (pci/l)

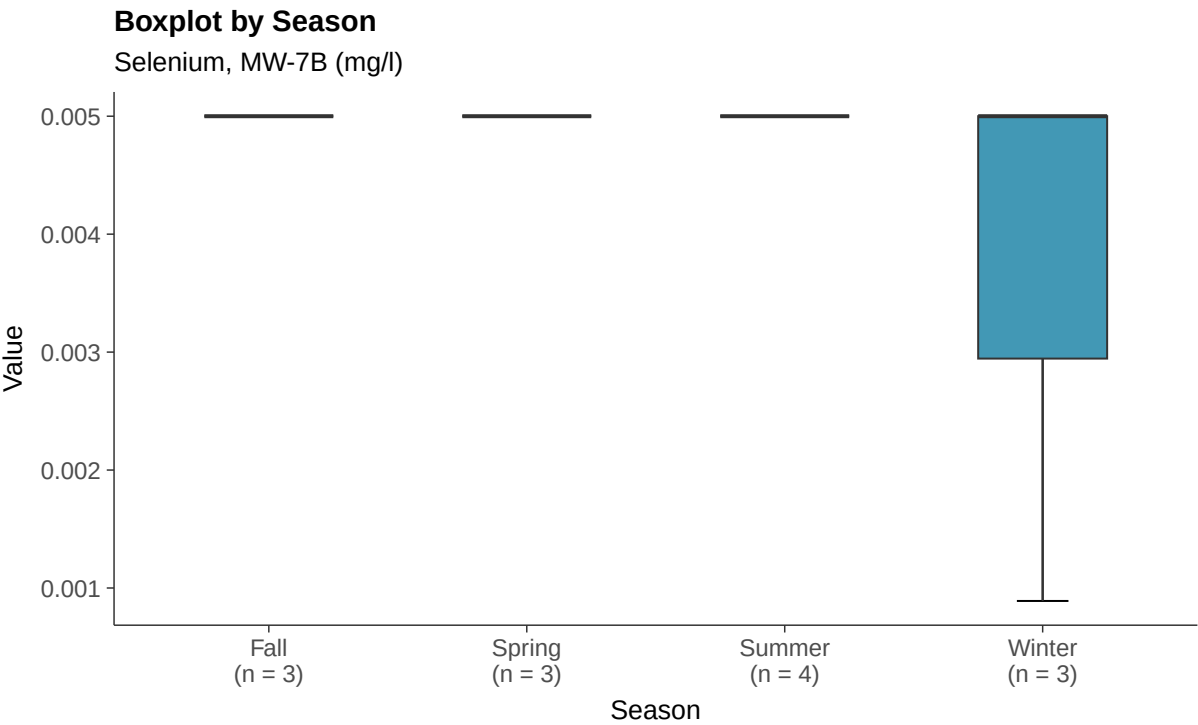
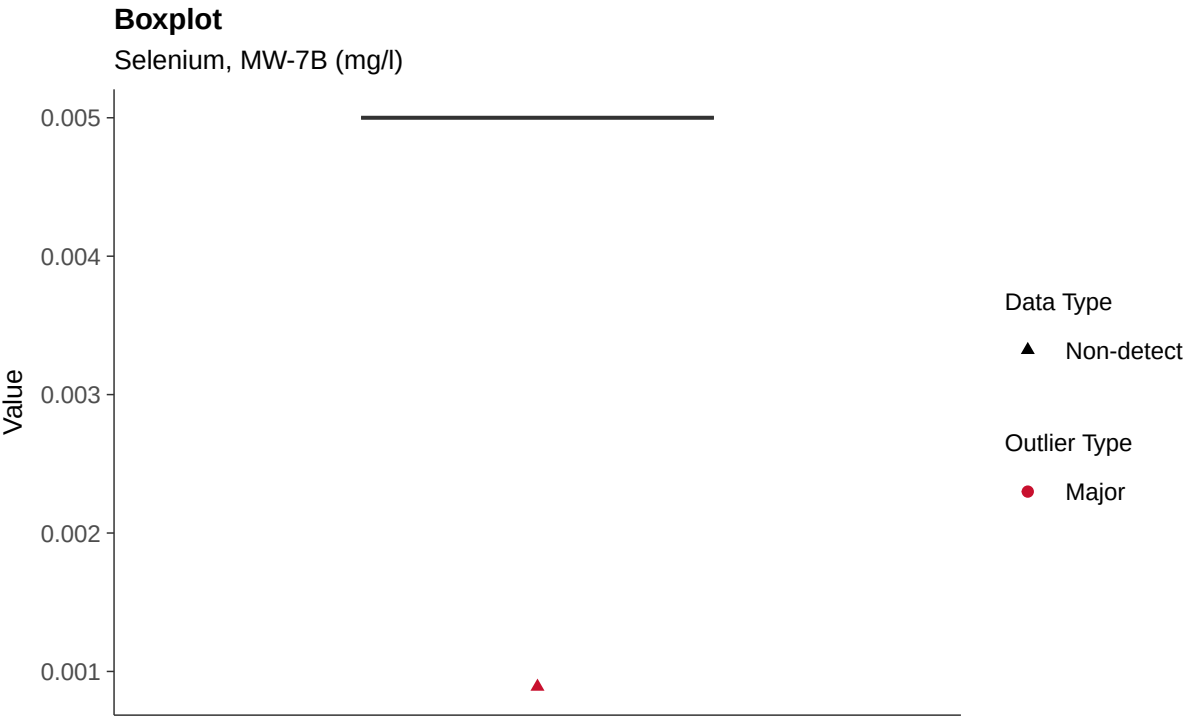




Appendix IV: Selenium, MW-7B

ID: 11_3_122

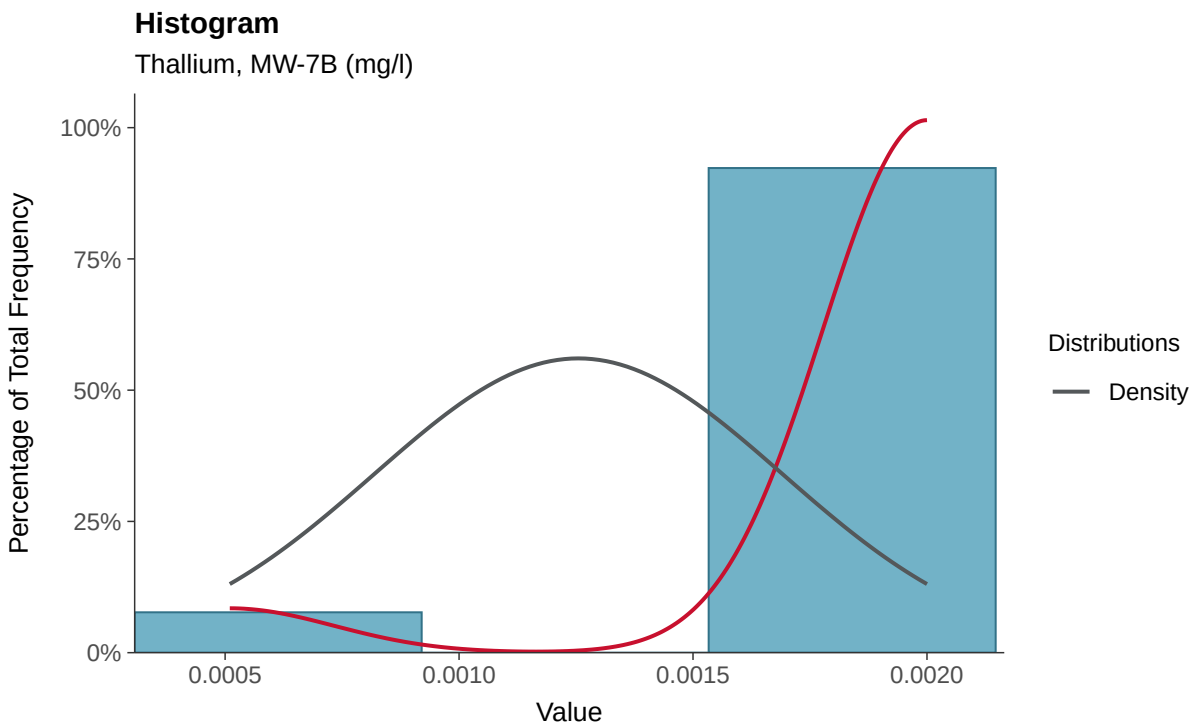
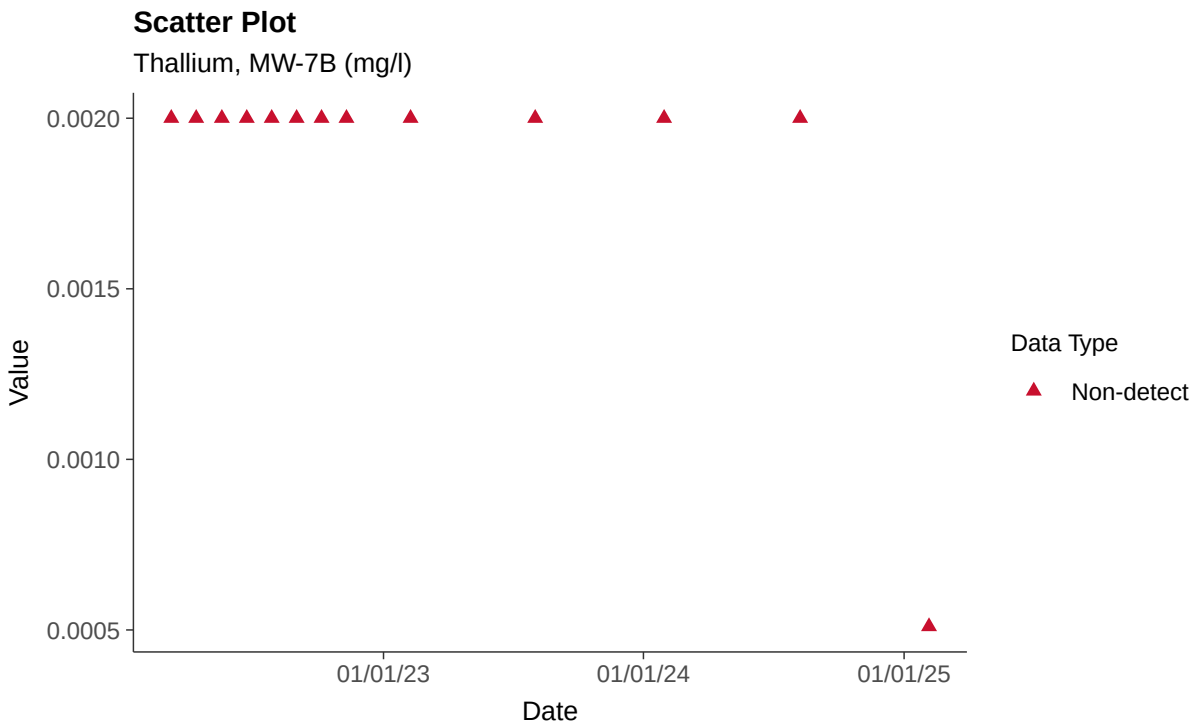


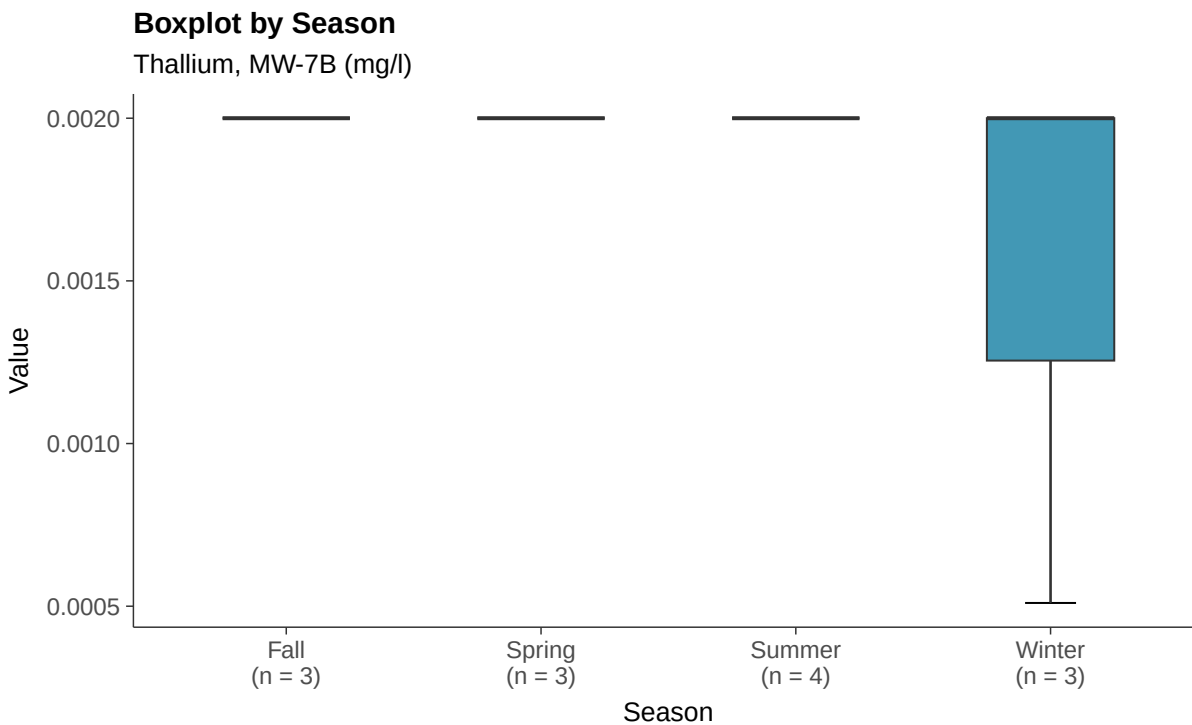
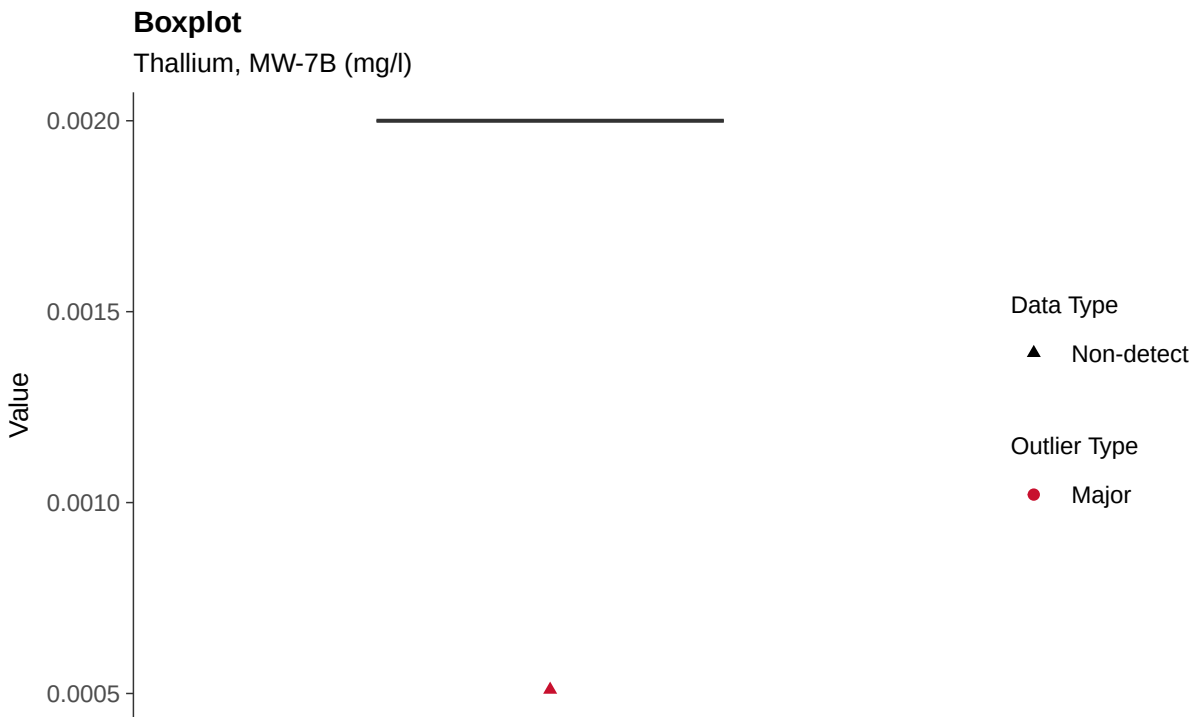




Appendix IV: Thallium, MW-7B

ID: 11_3_125

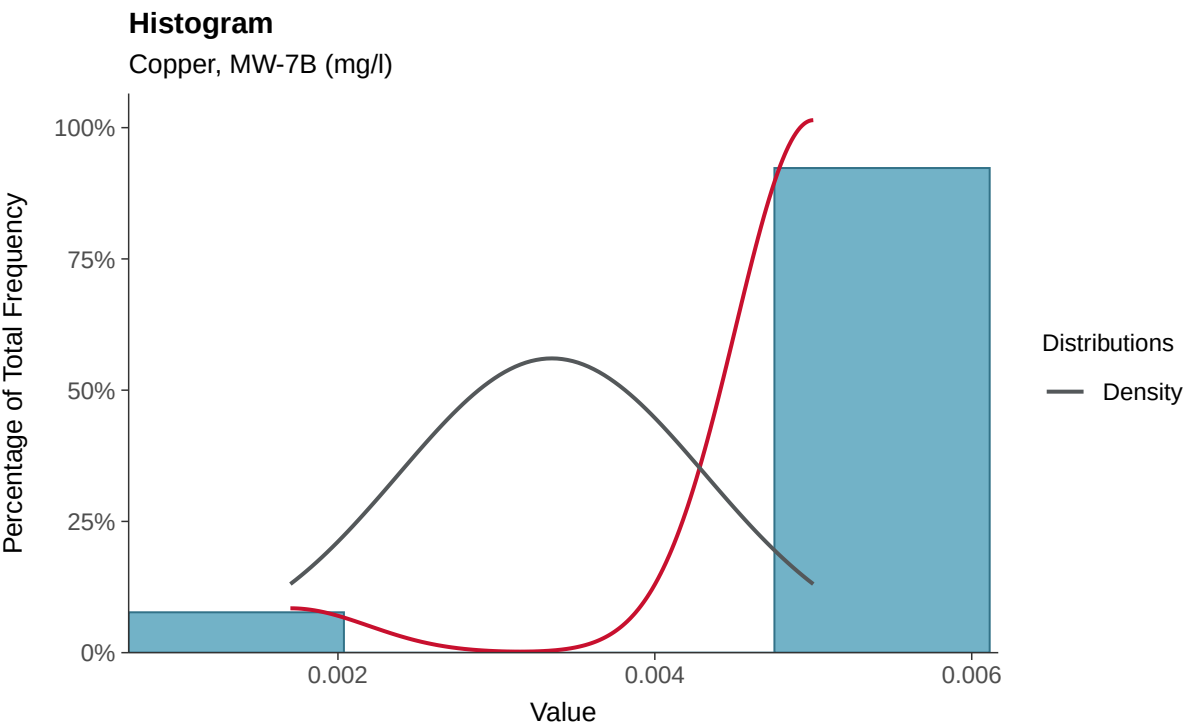
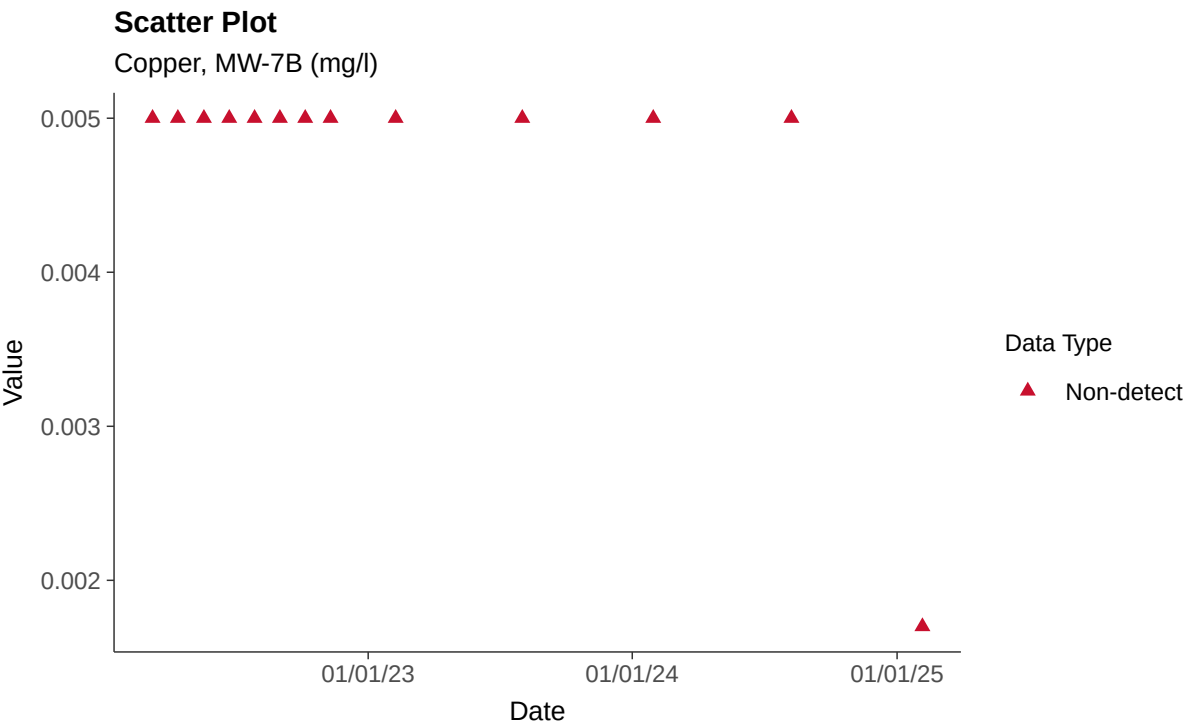


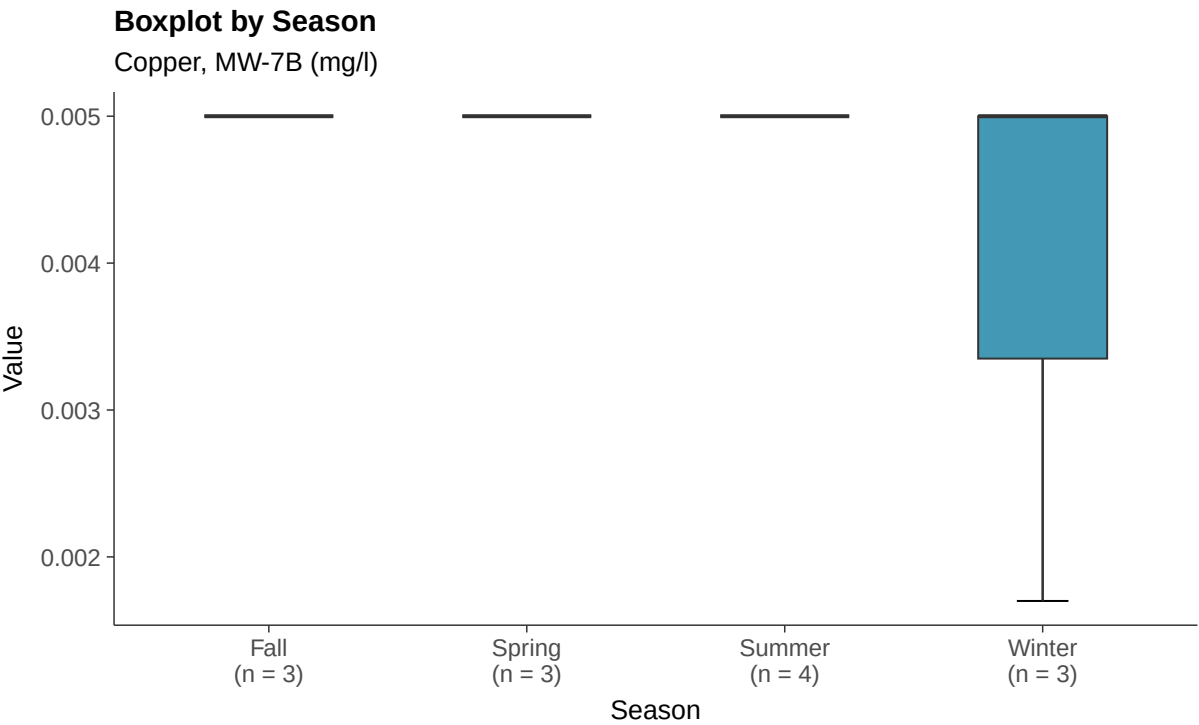
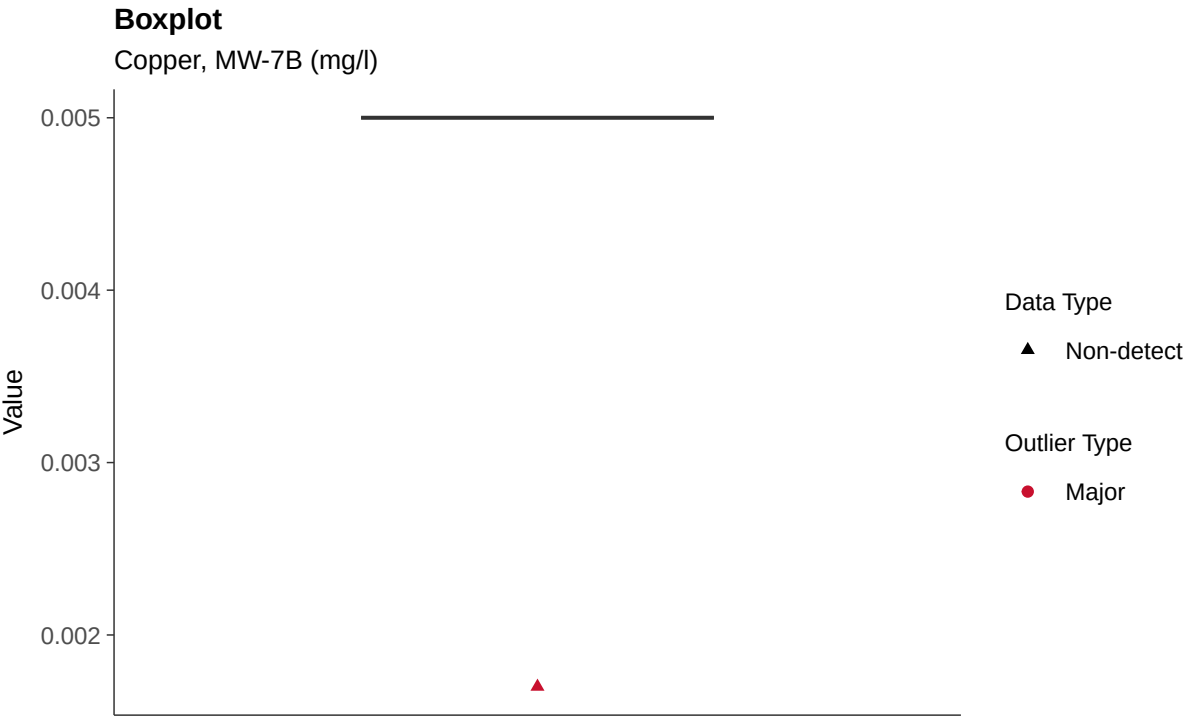




Part 115: Copper, MW-7B

ID: 11_5_111

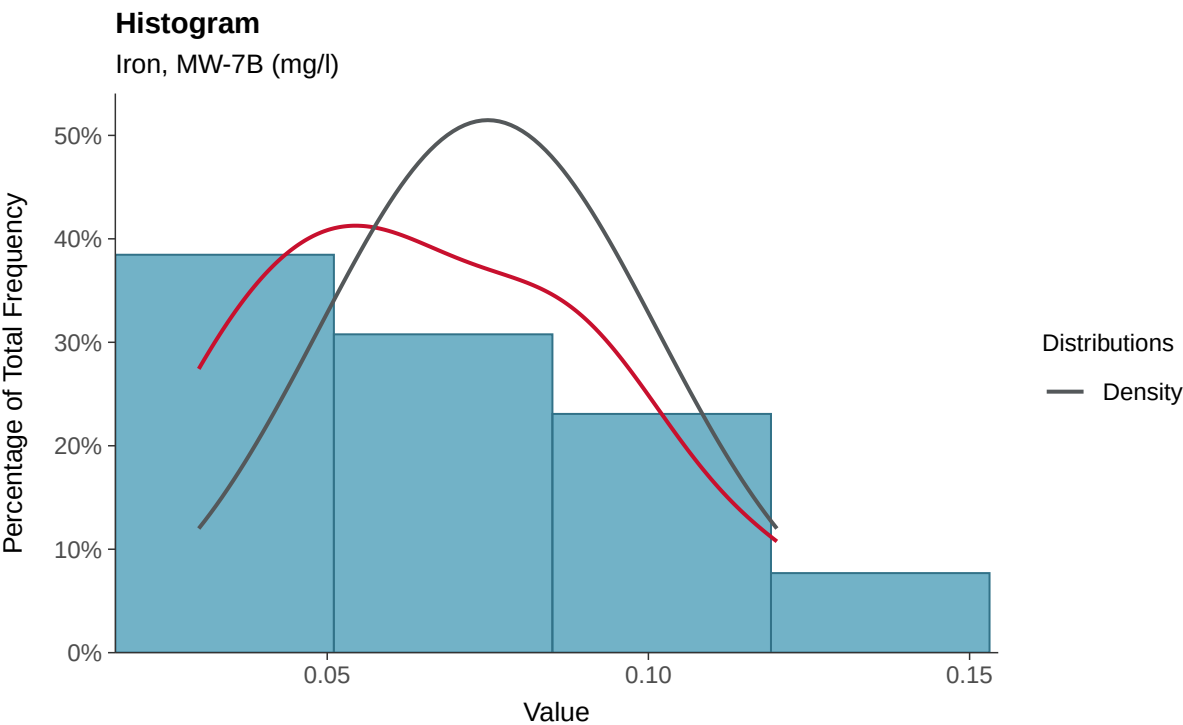
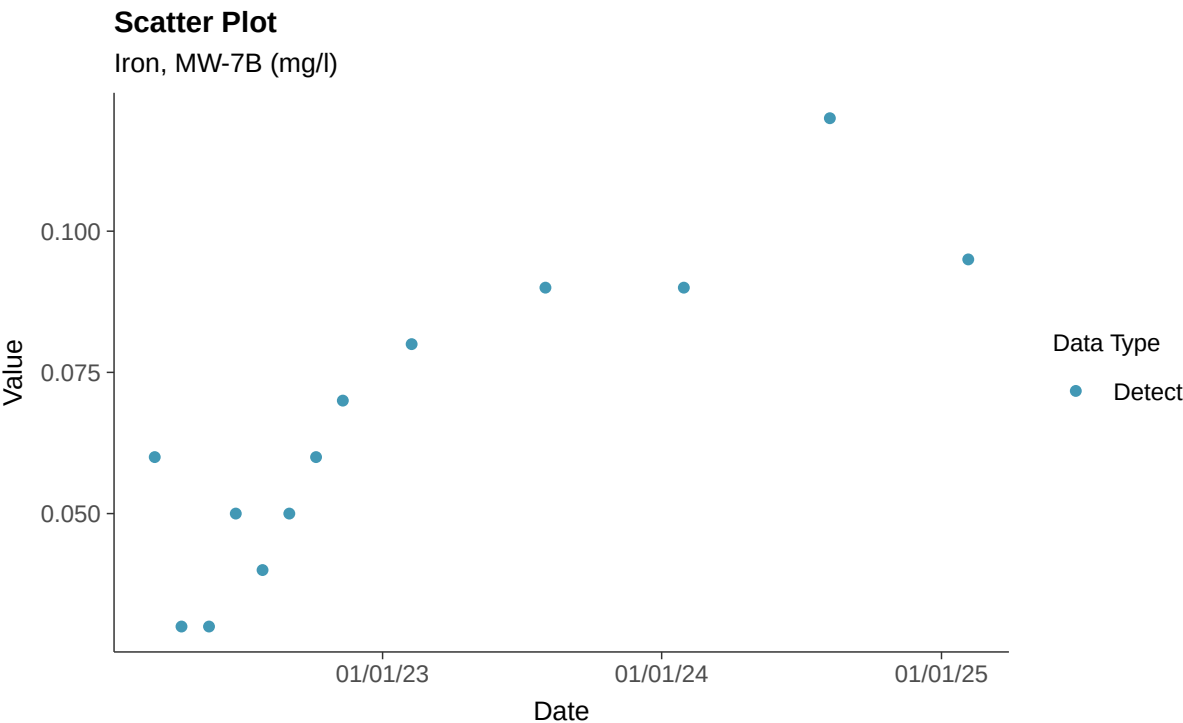


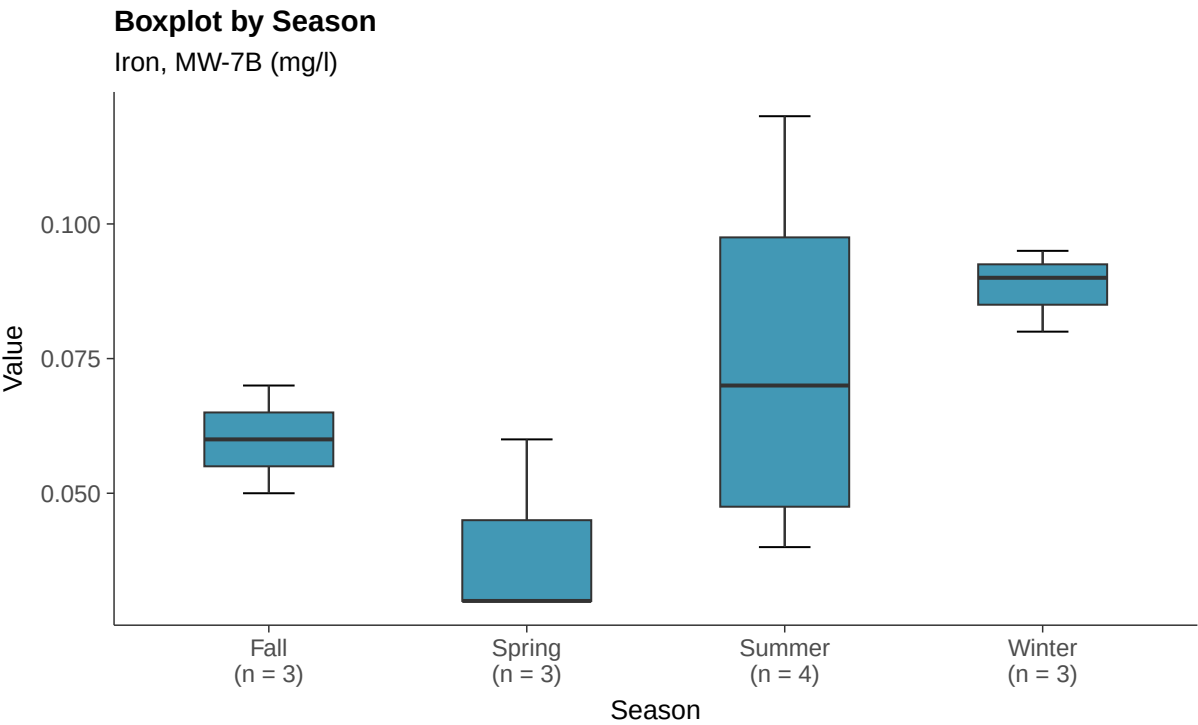
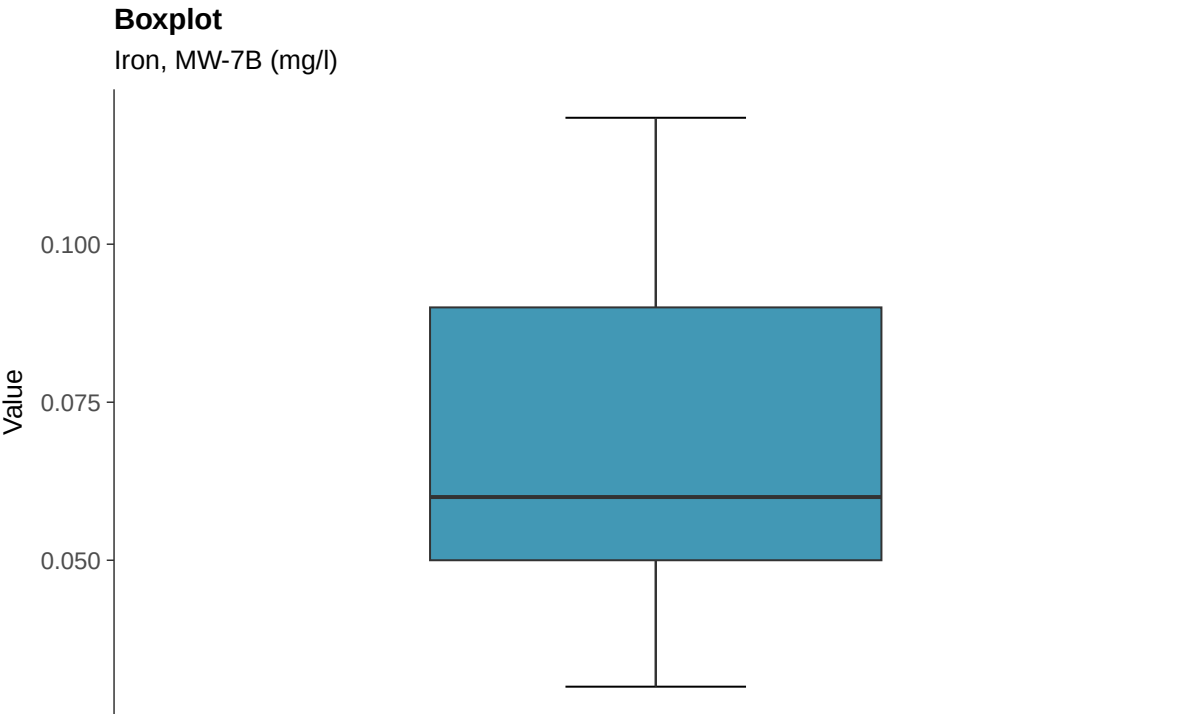


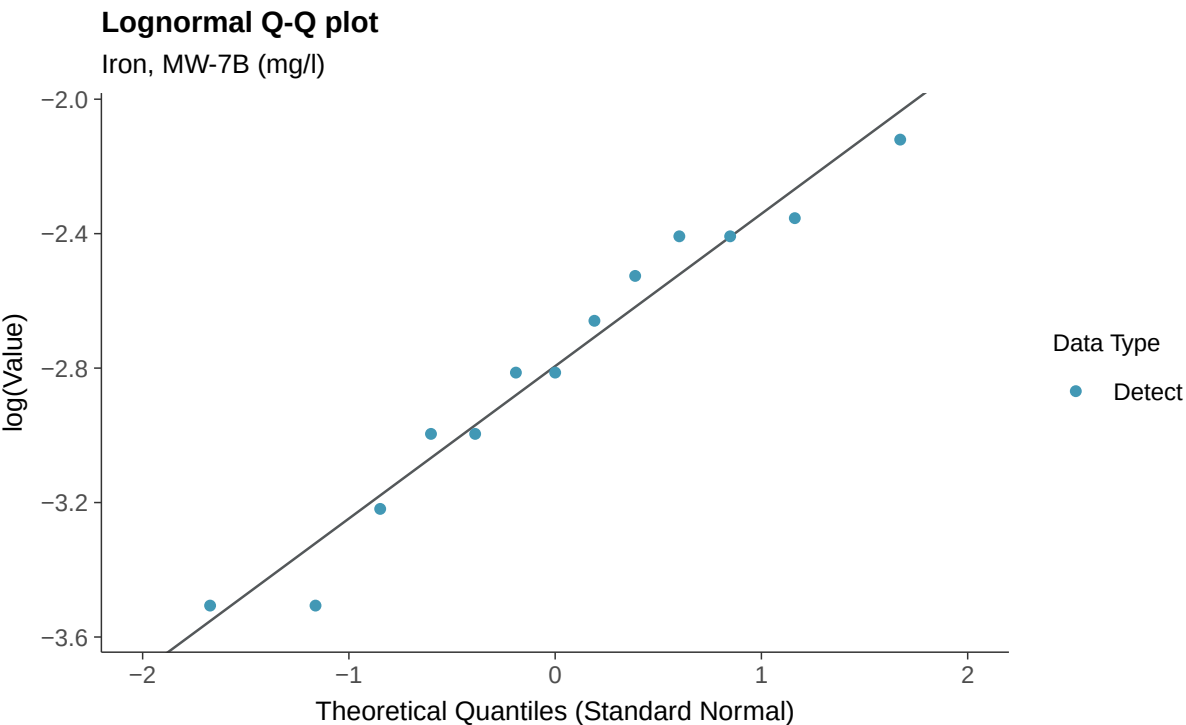
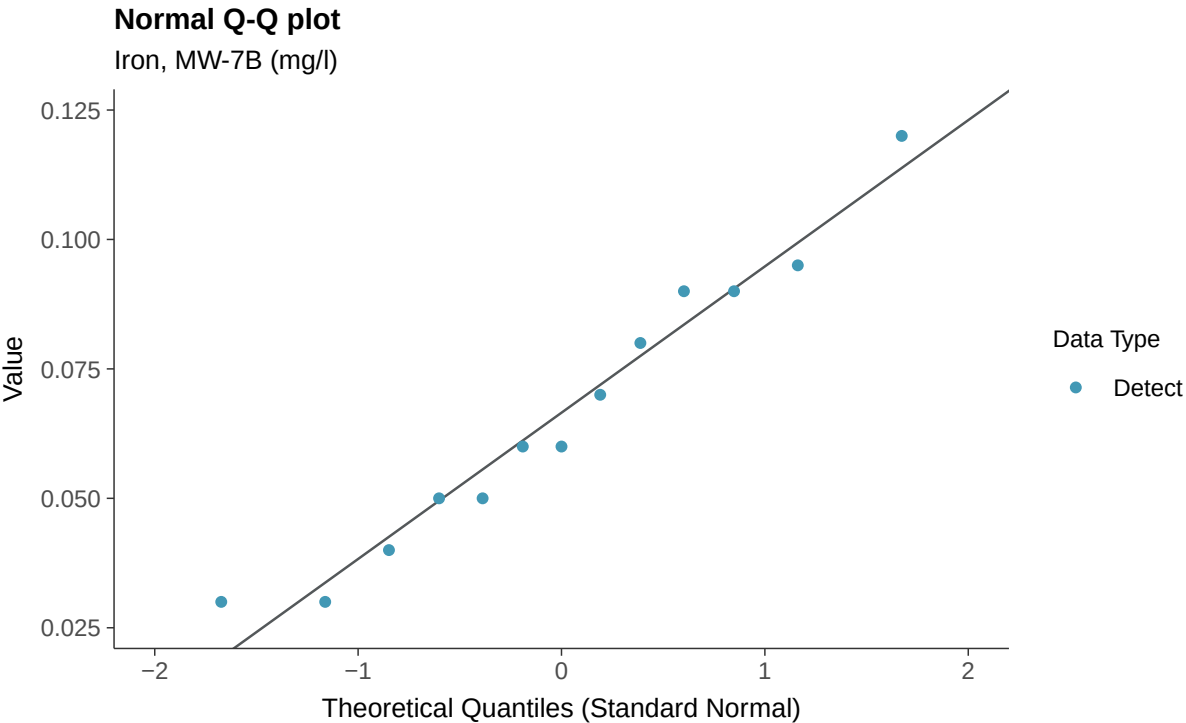


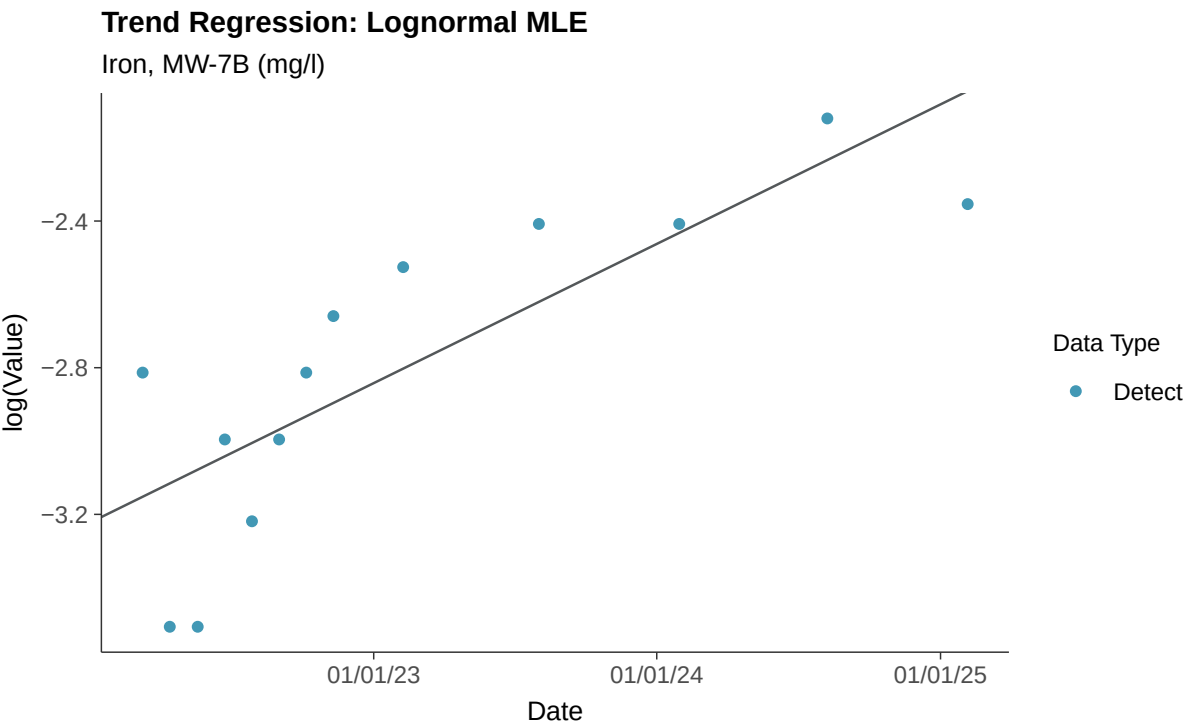
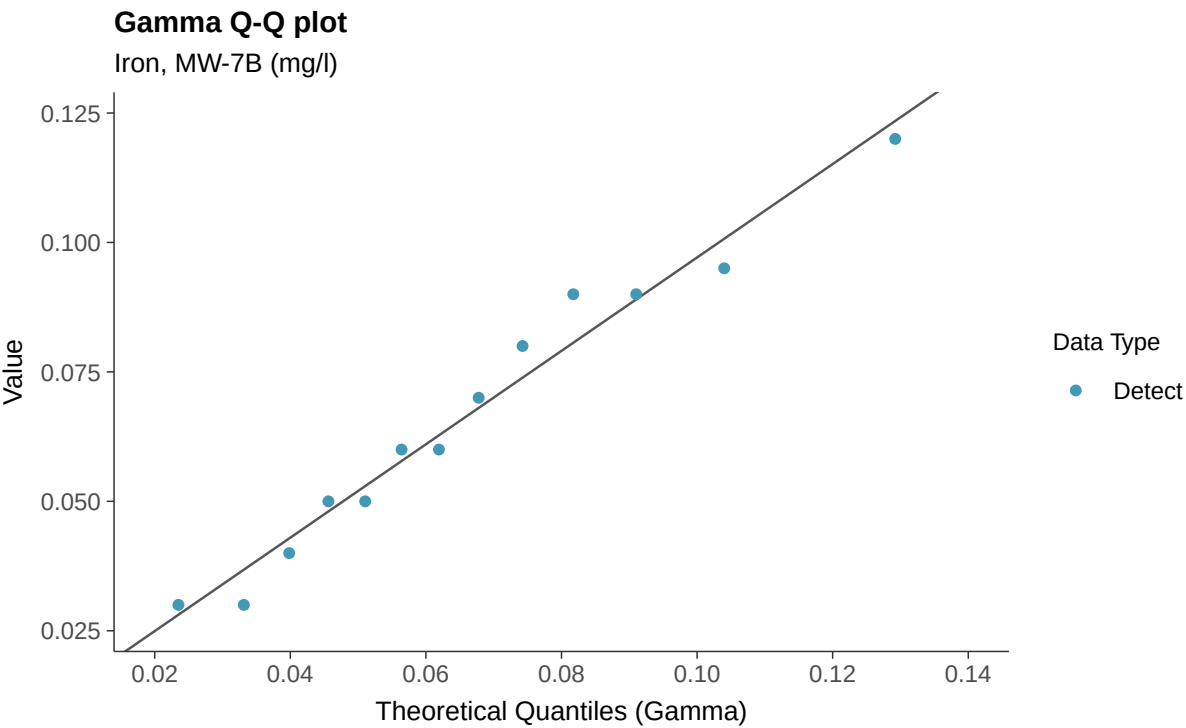
Part 115: Iron, MW-7B

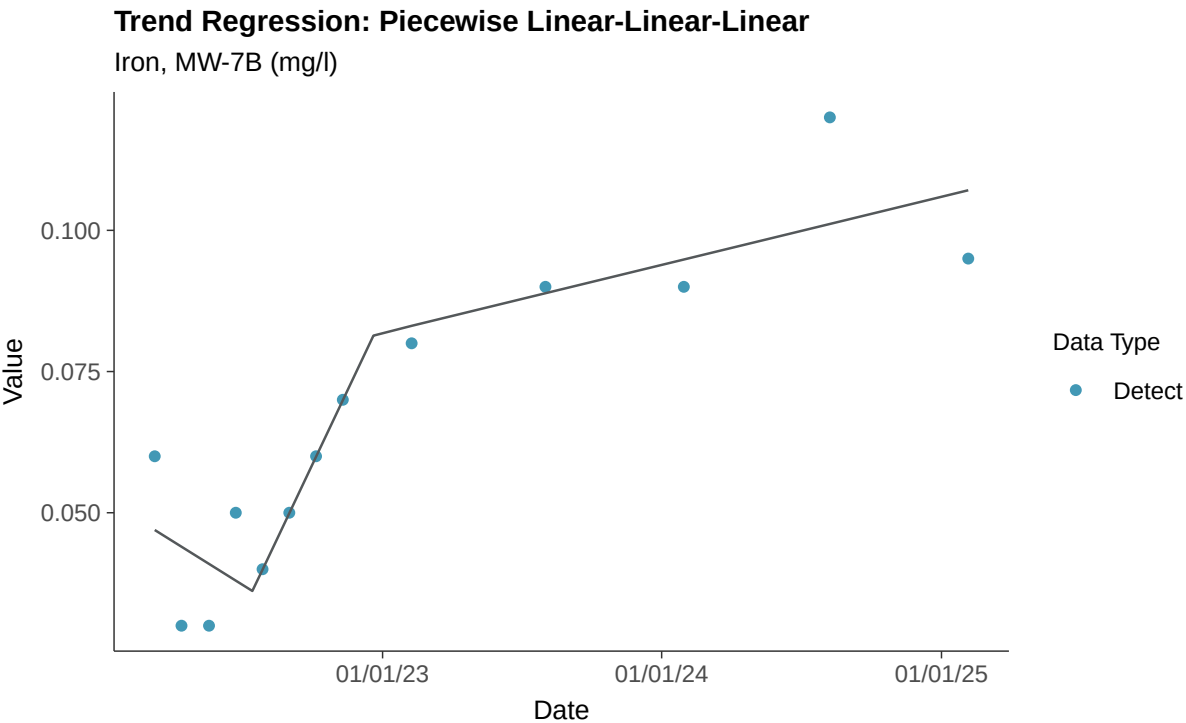
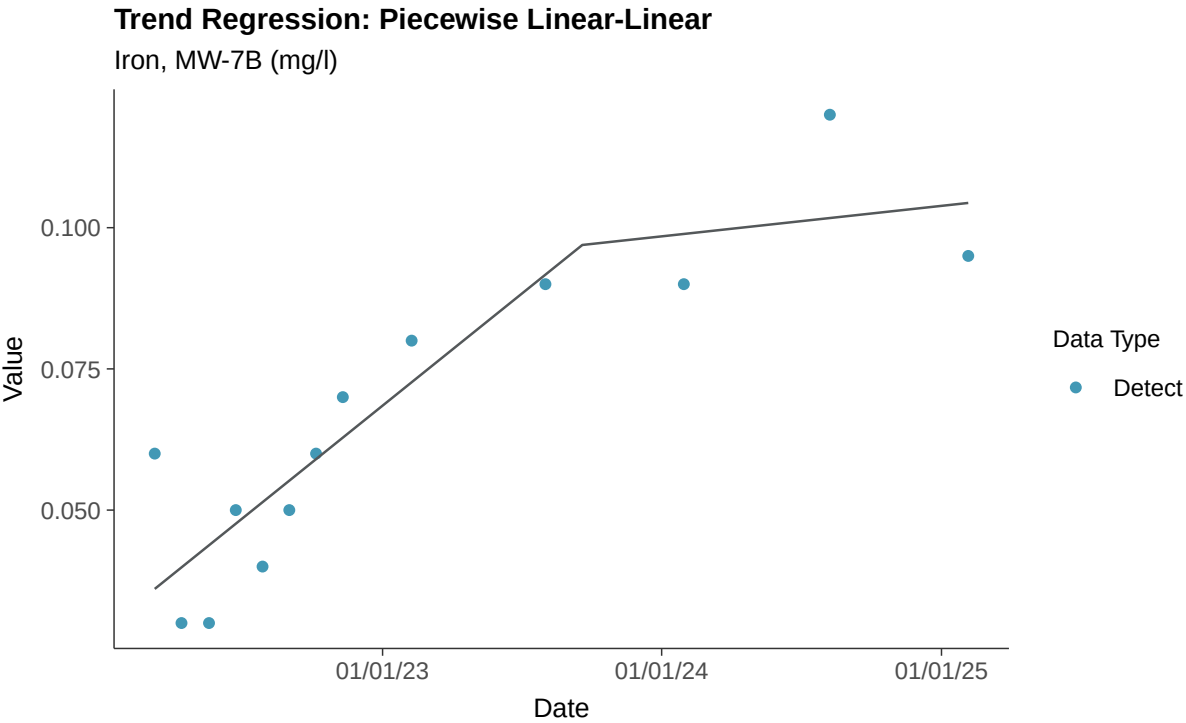
ID: 11_5_114







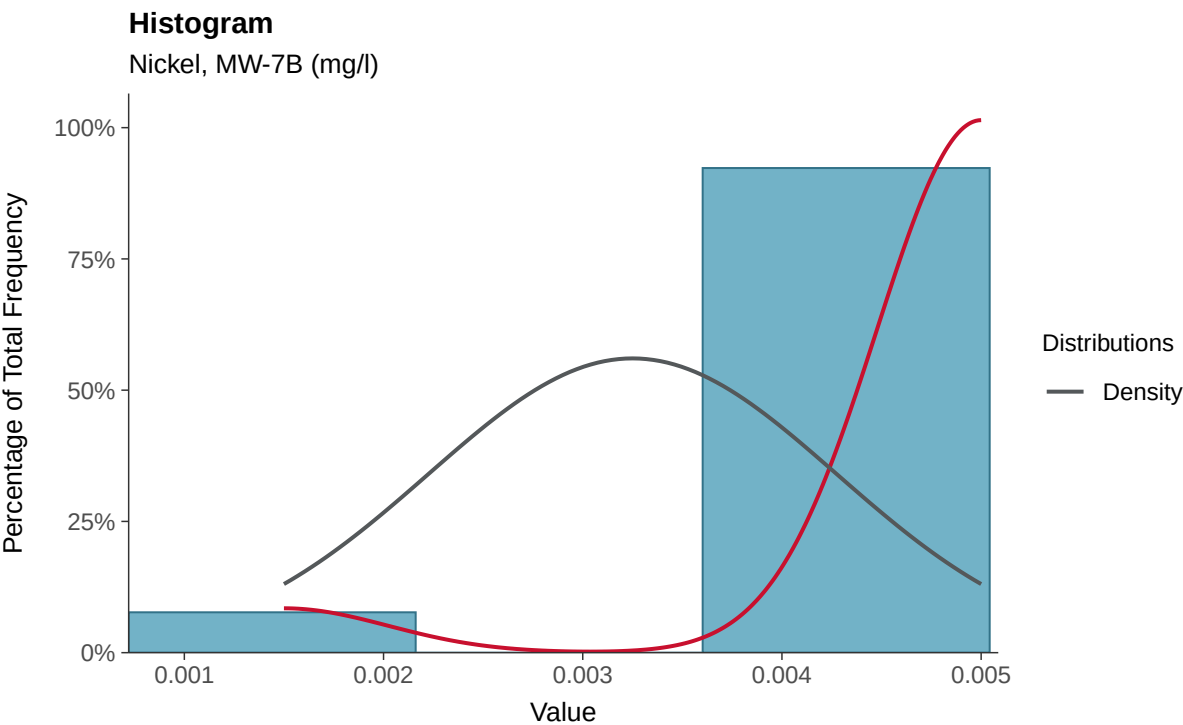
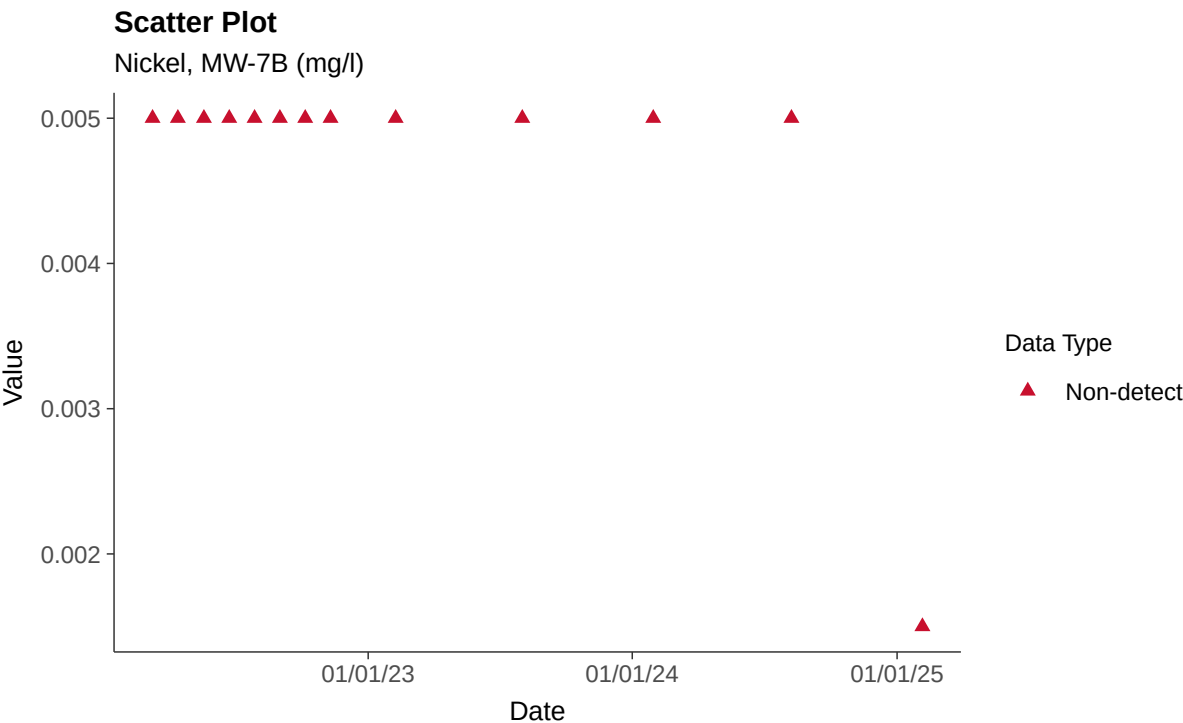


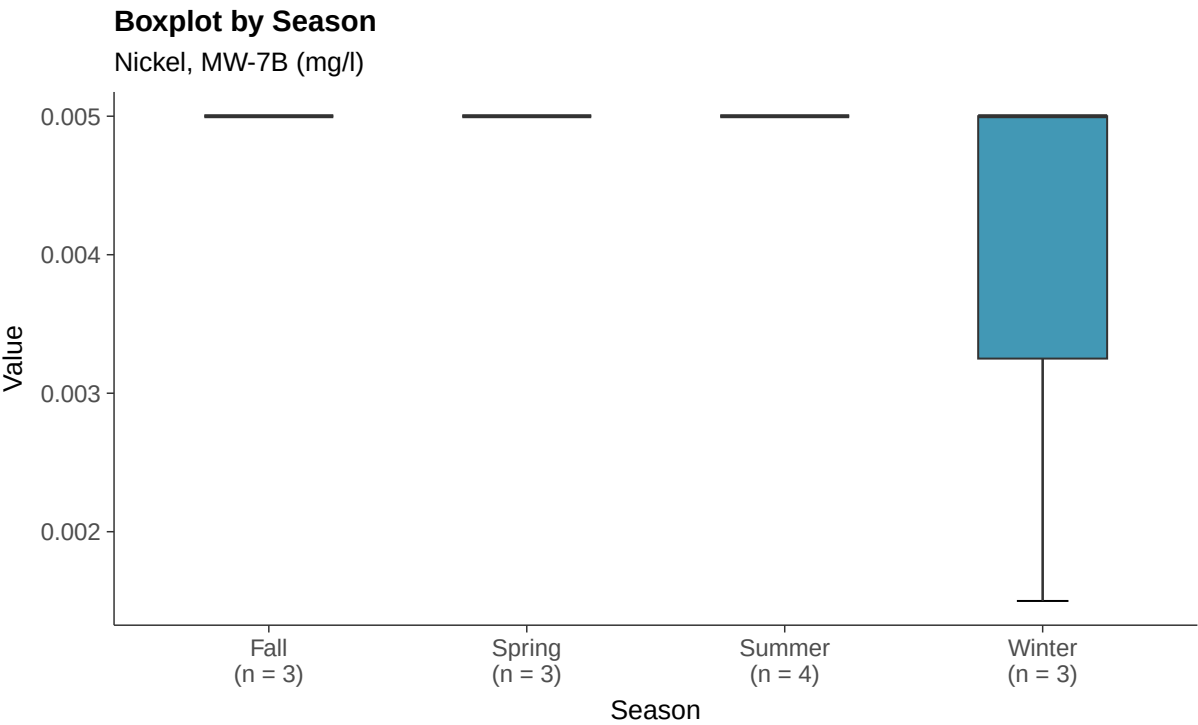
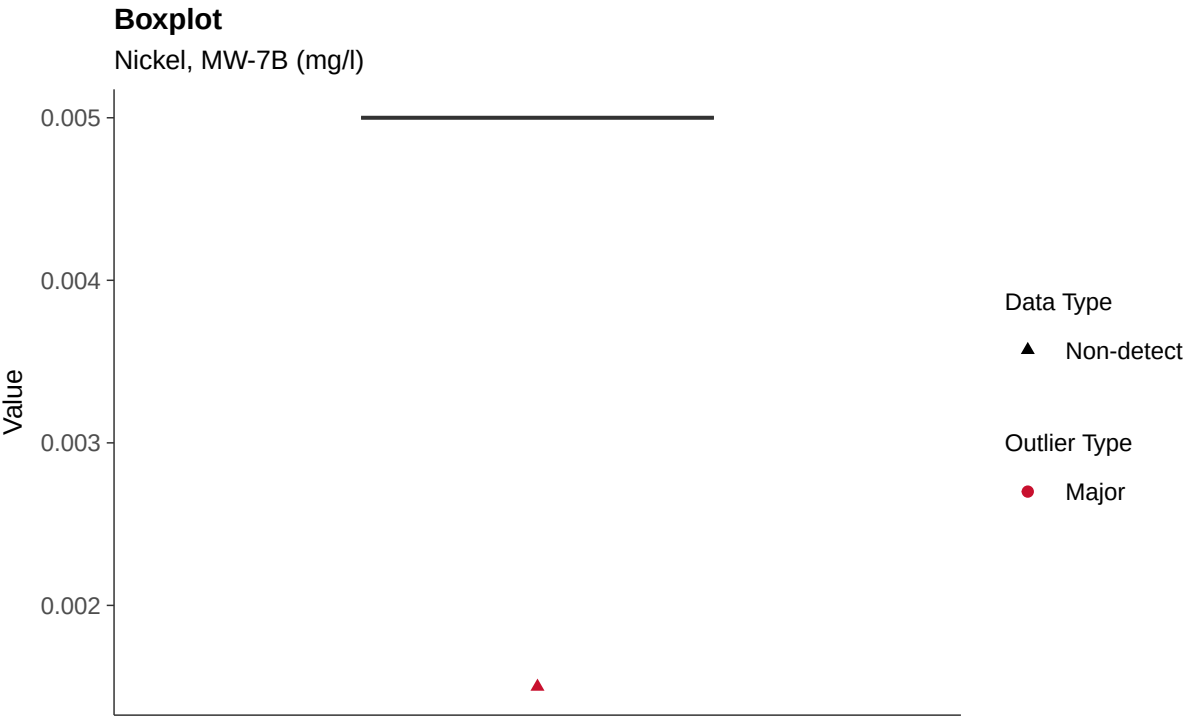




Part 115: Nickel, MW-7B

ID: 11_5_119

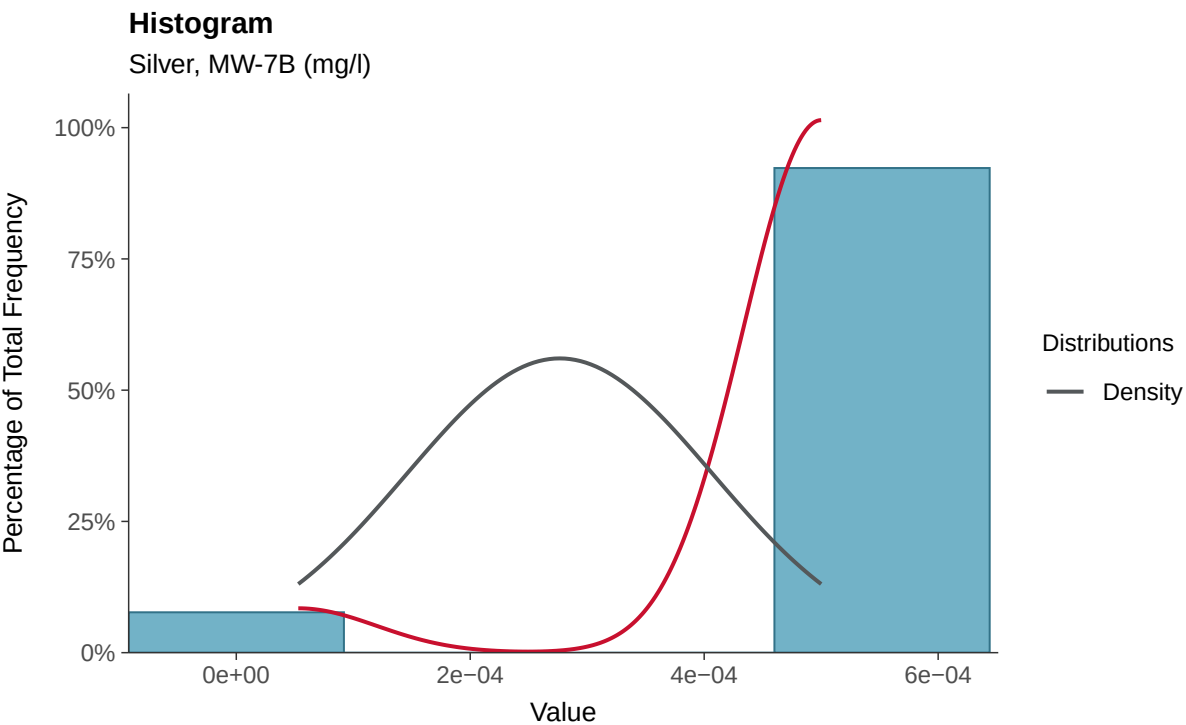
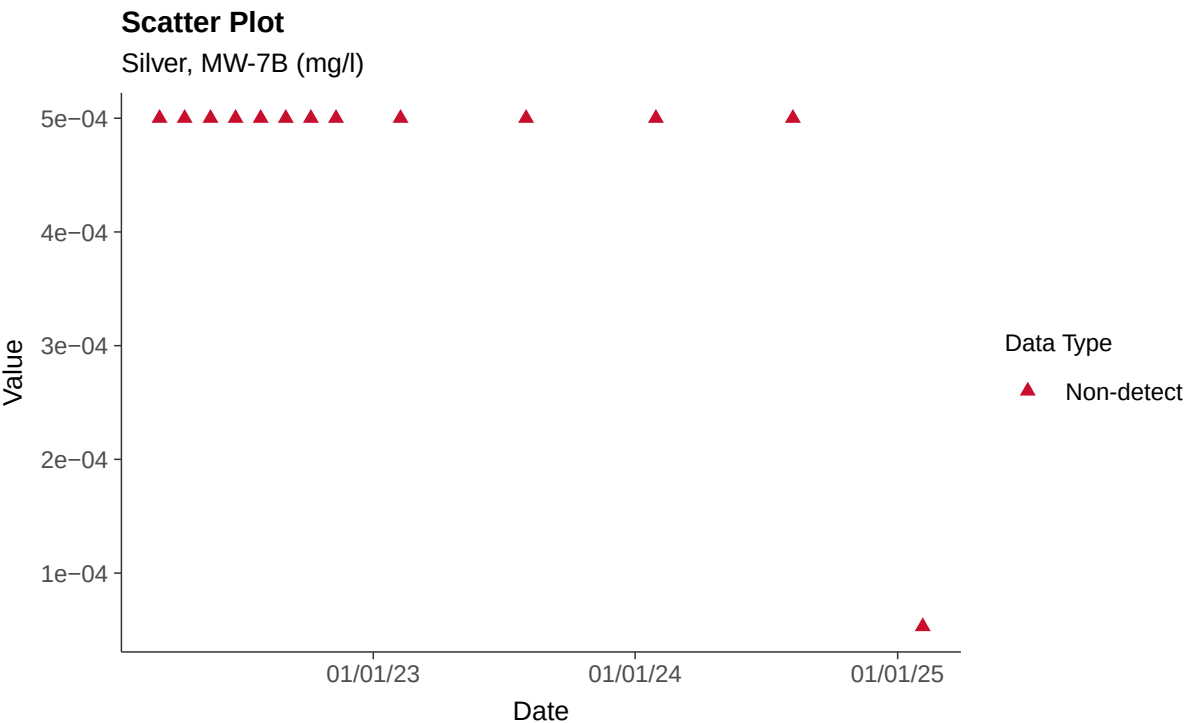


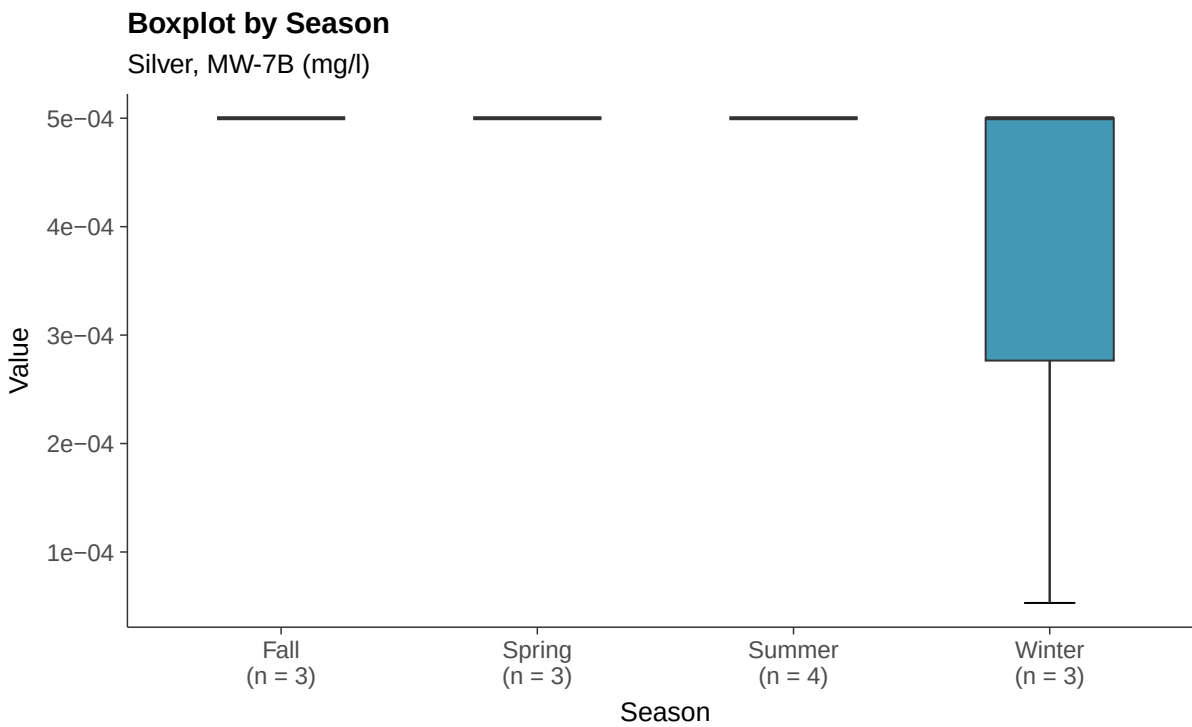
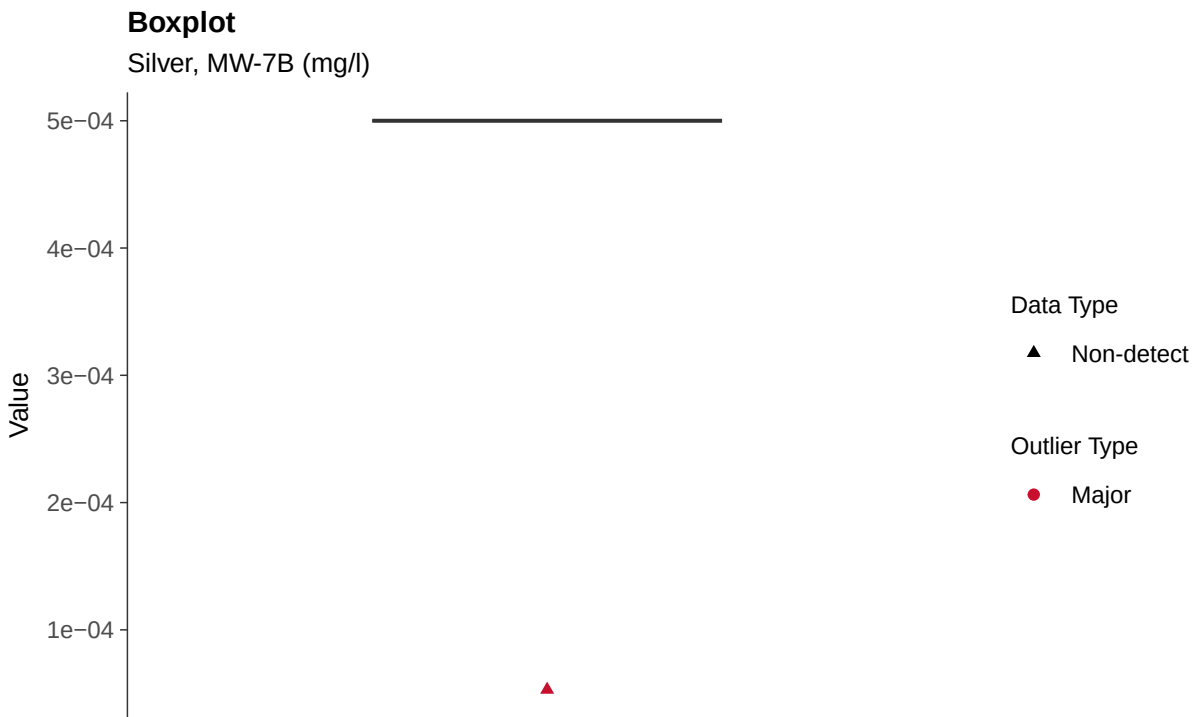




Part 115: Silver, MW-7B

ID: 11_5_123

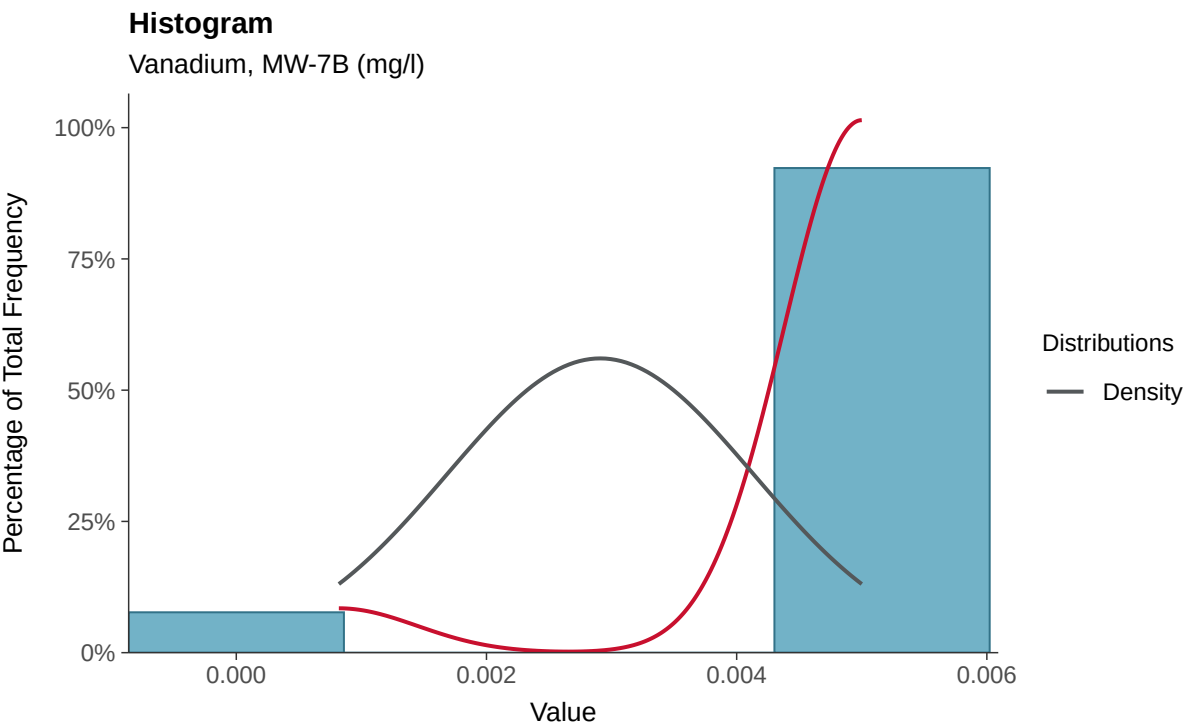
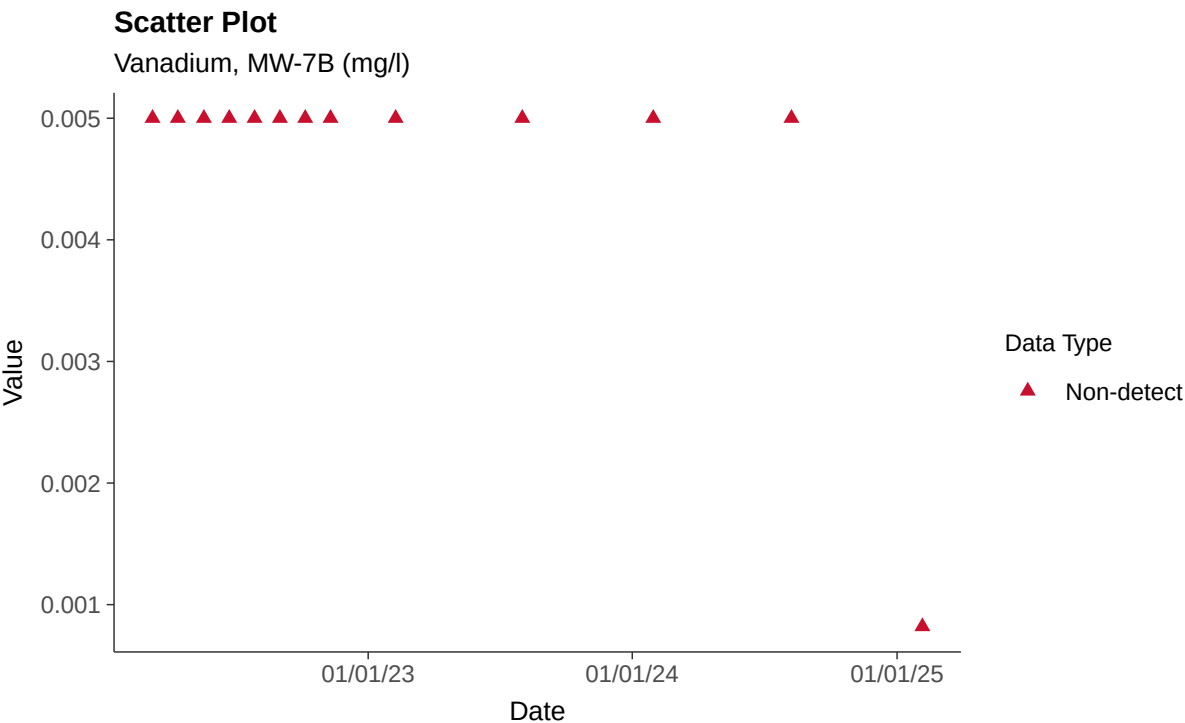


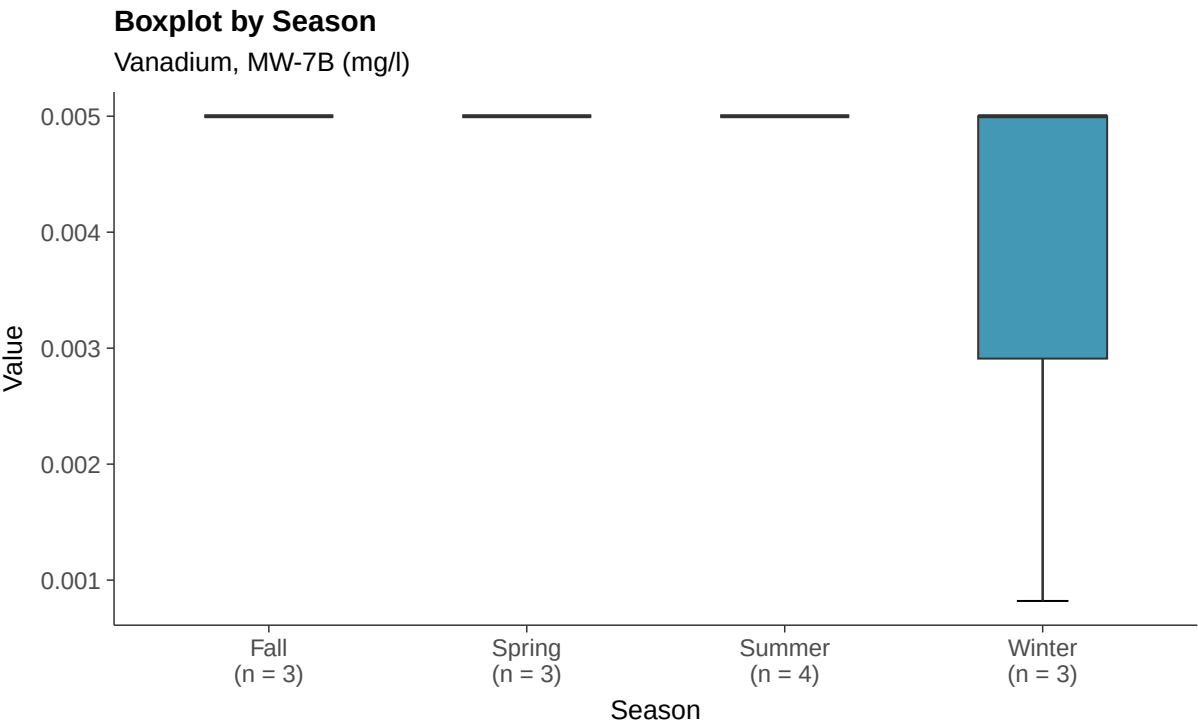
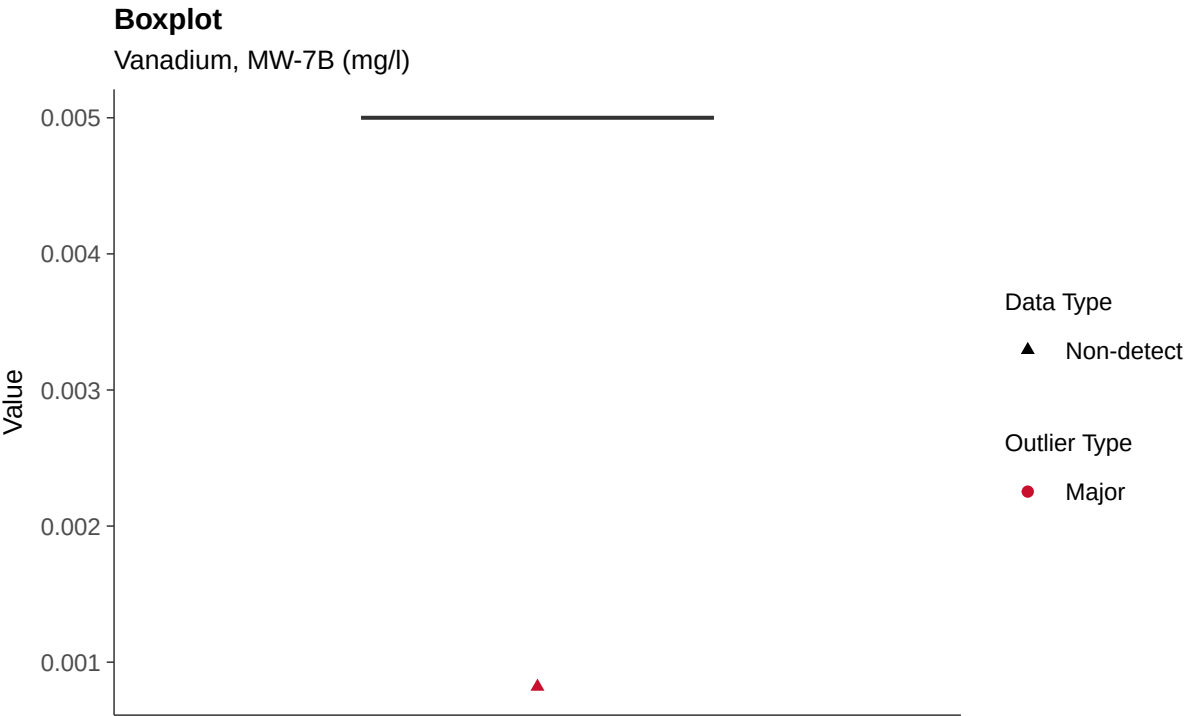




Part 115: Vanadium, MW-7B

ID: 11_5_128

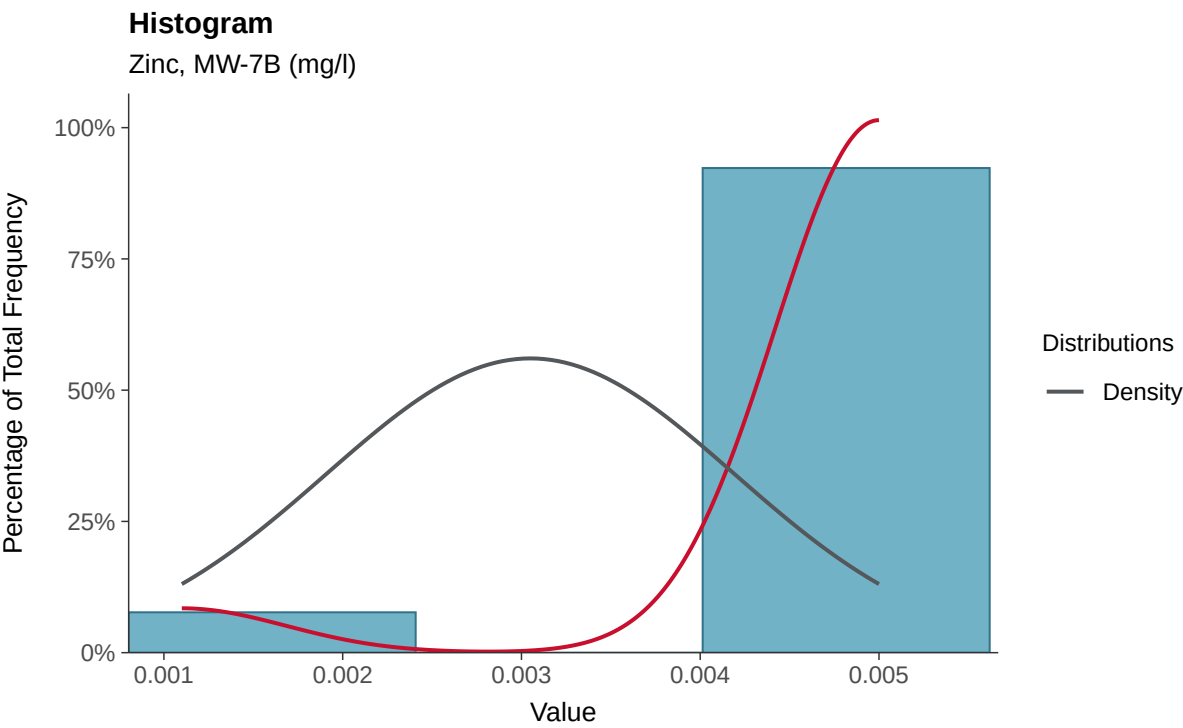
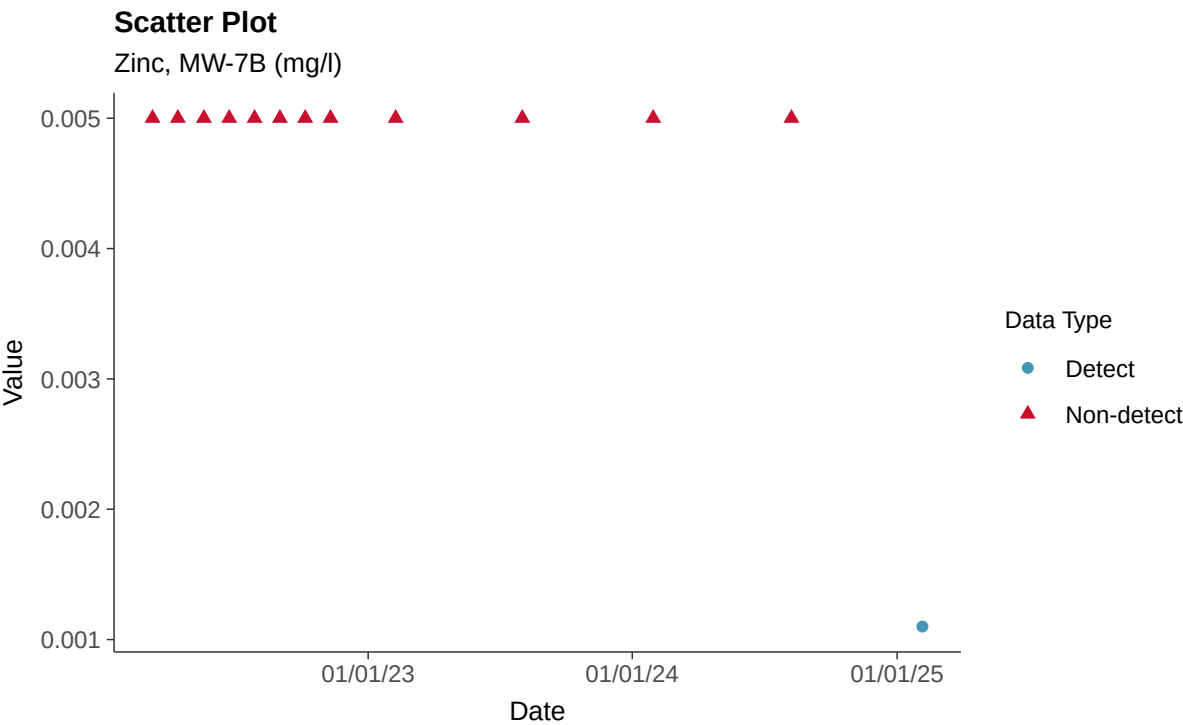


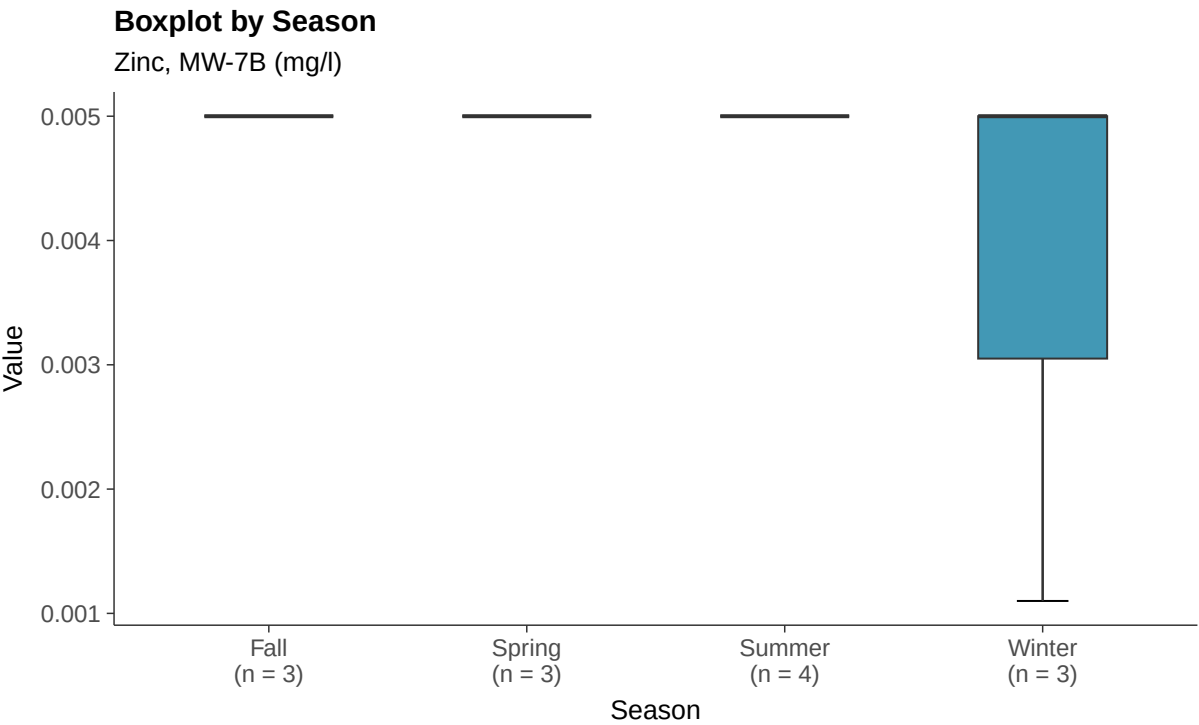
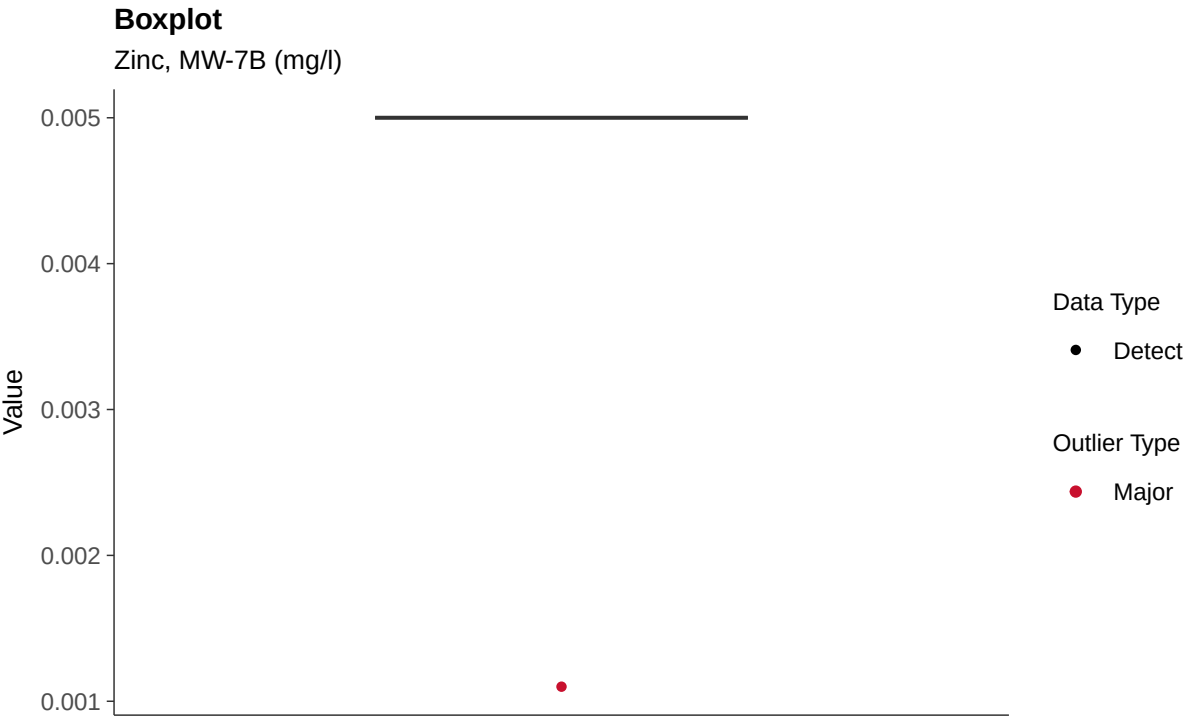




Part 115: Zinc, MW-7B

ID: 11_5_129

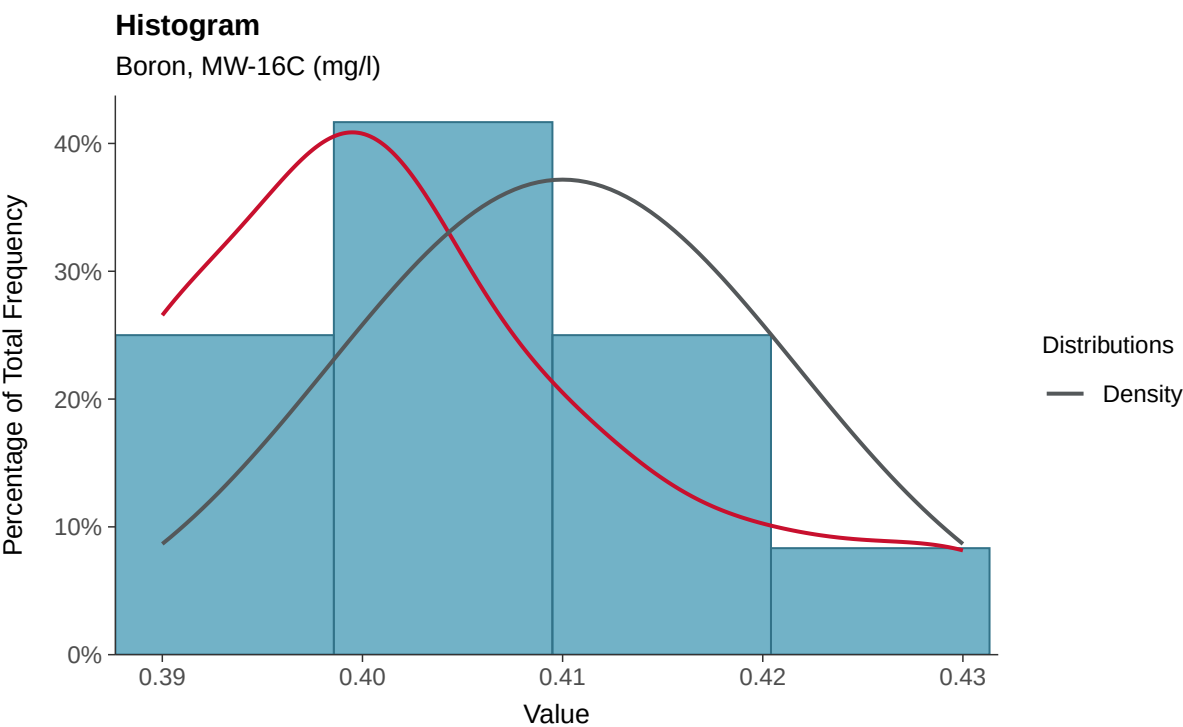
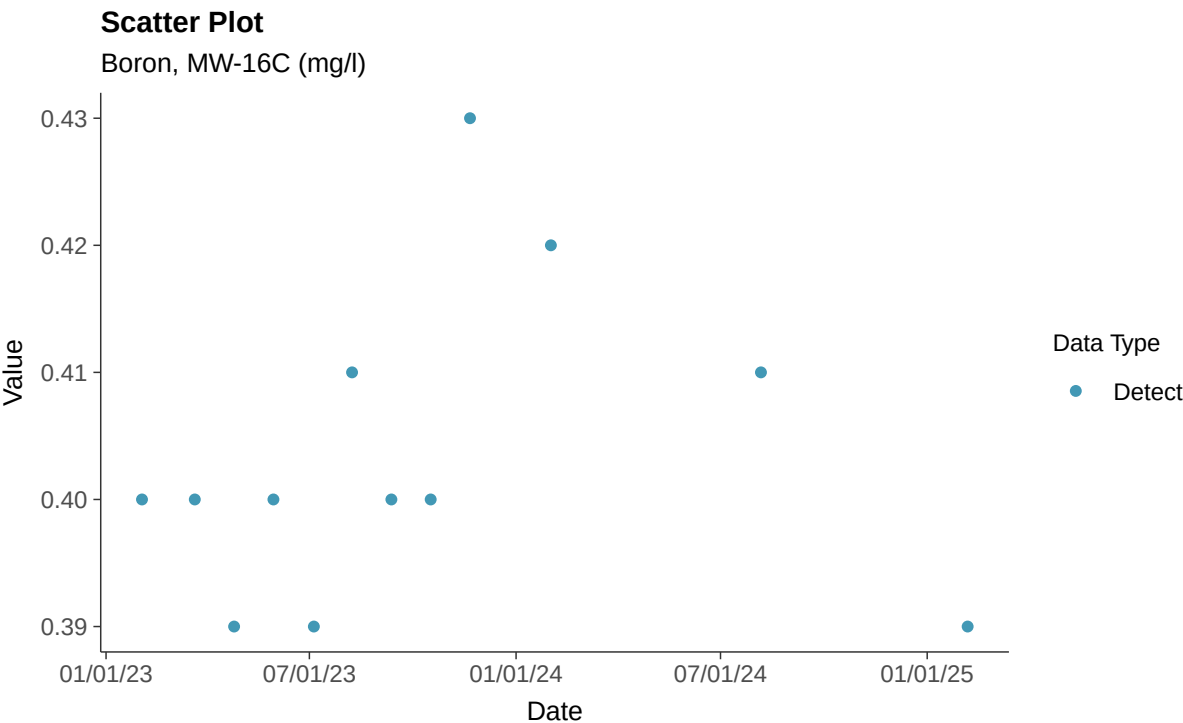


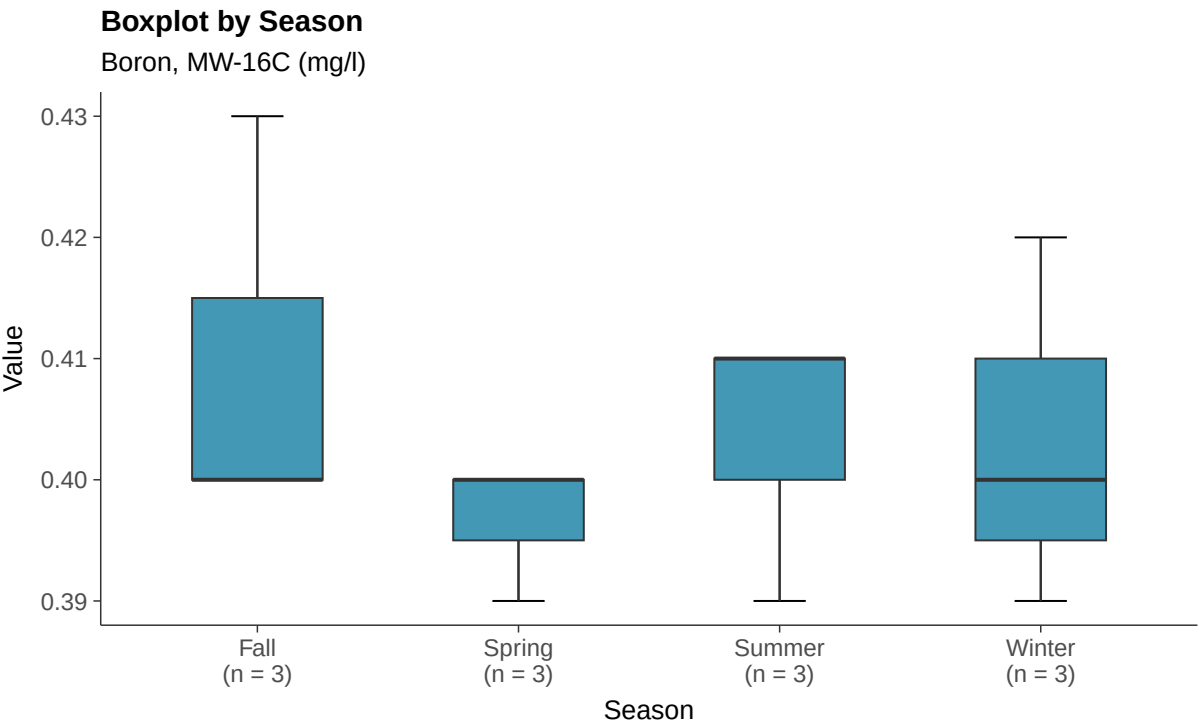
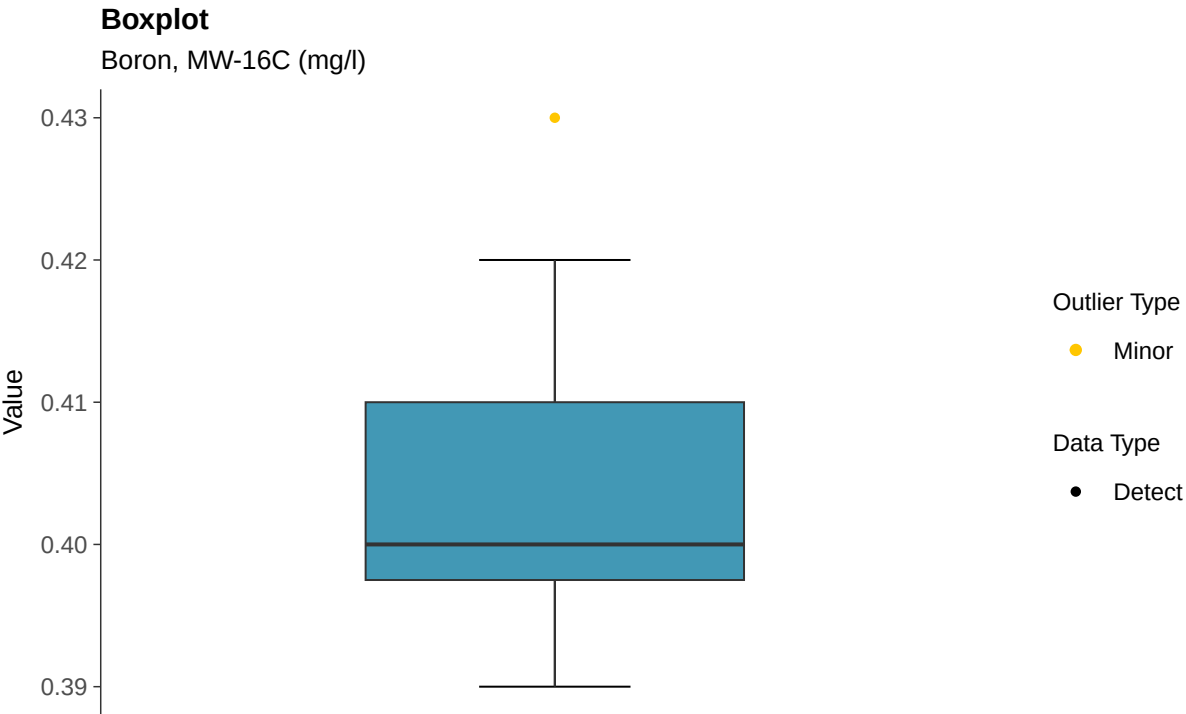


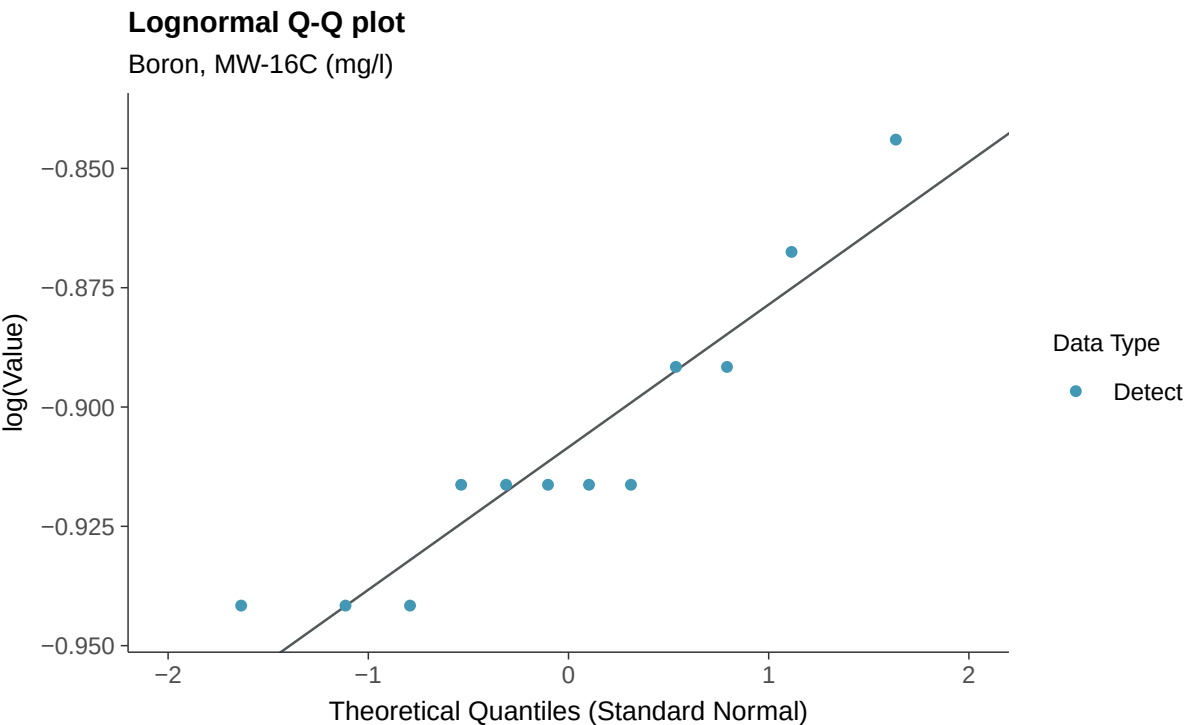
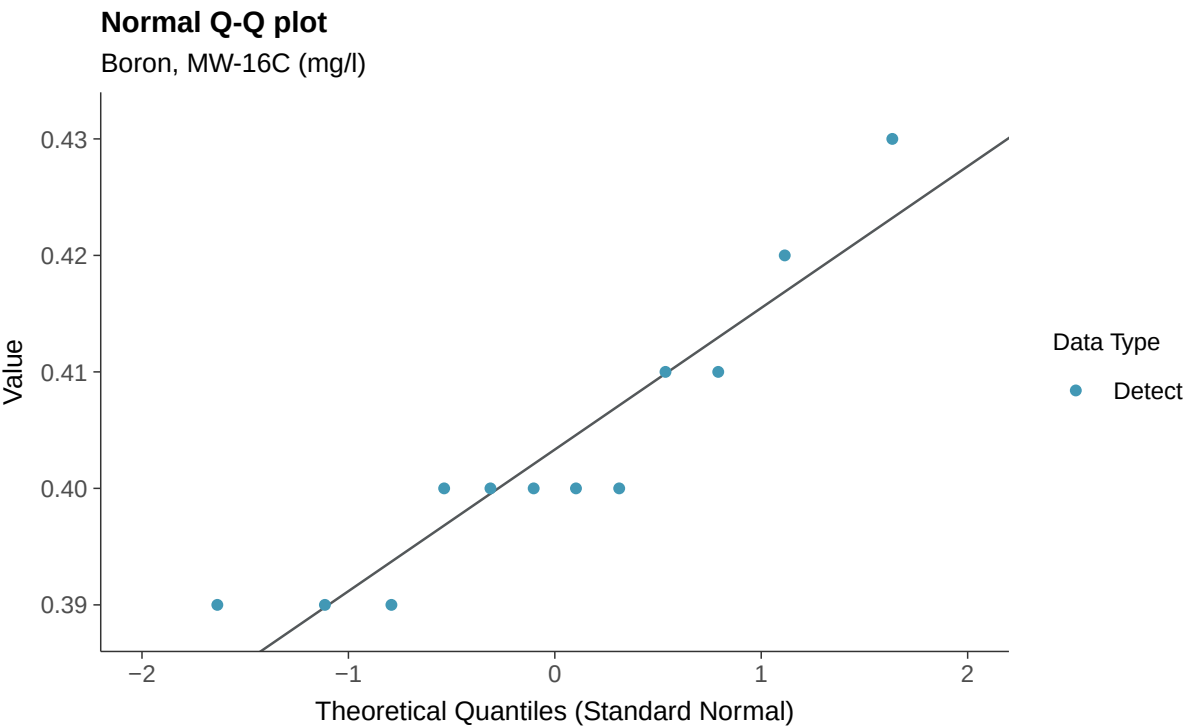


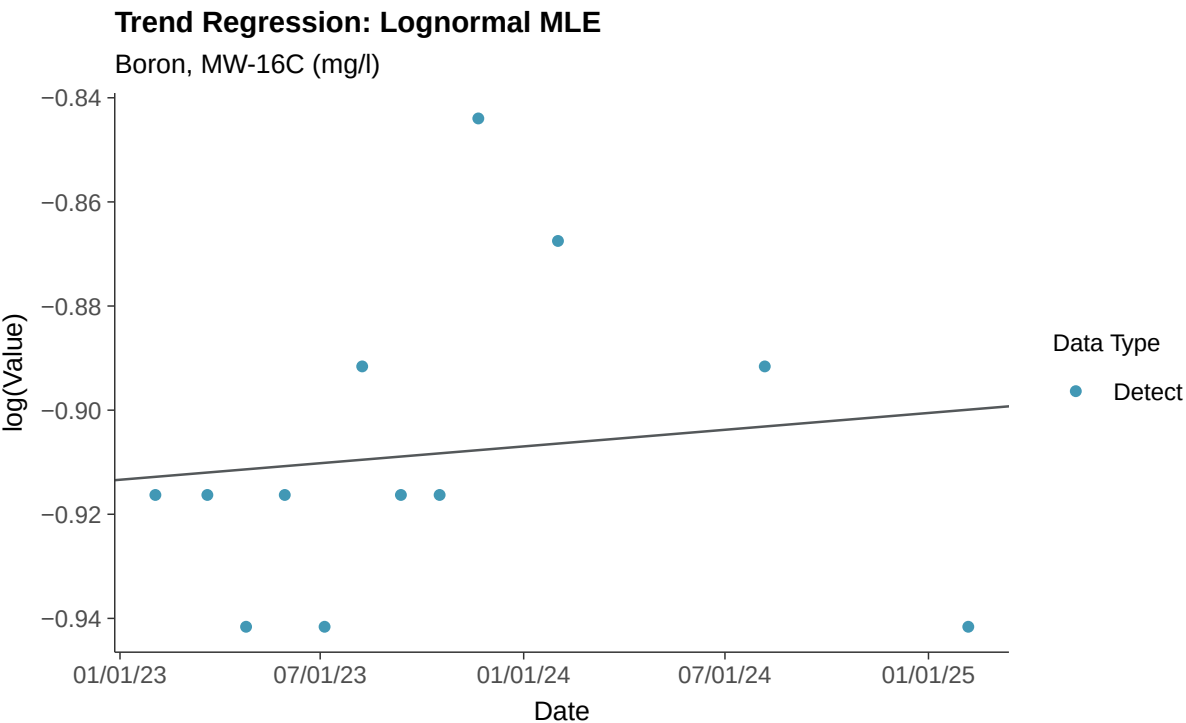
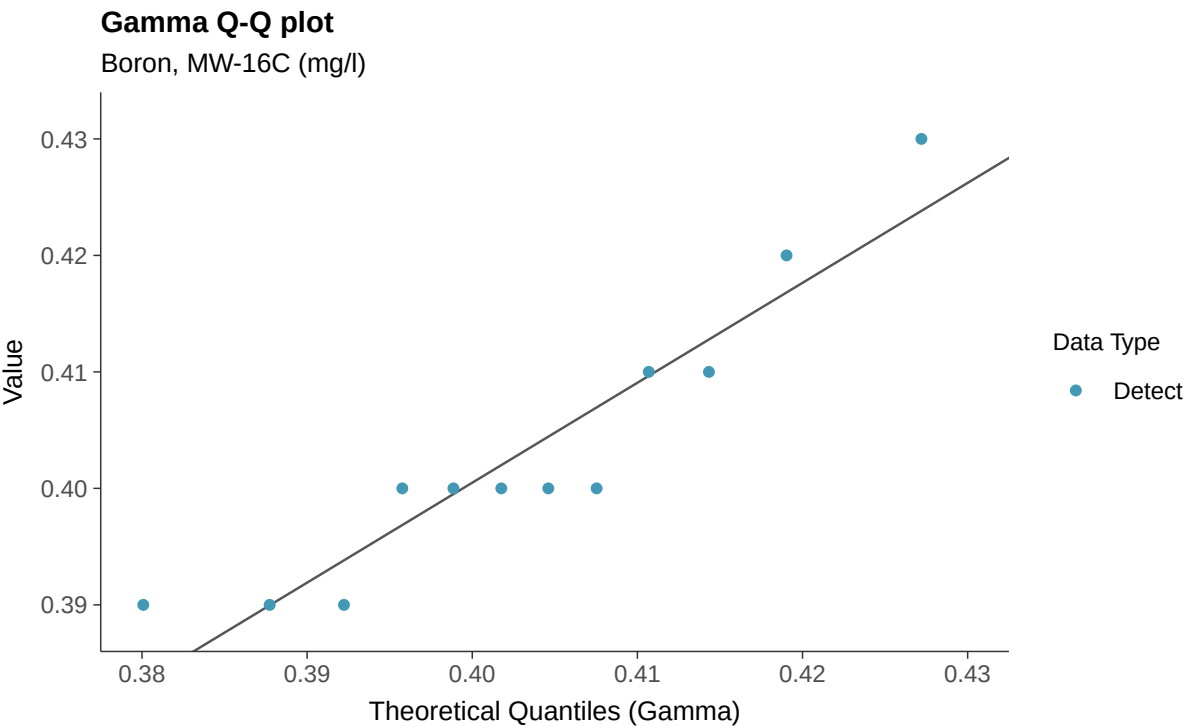
Appendix III: Boron, MW-16C

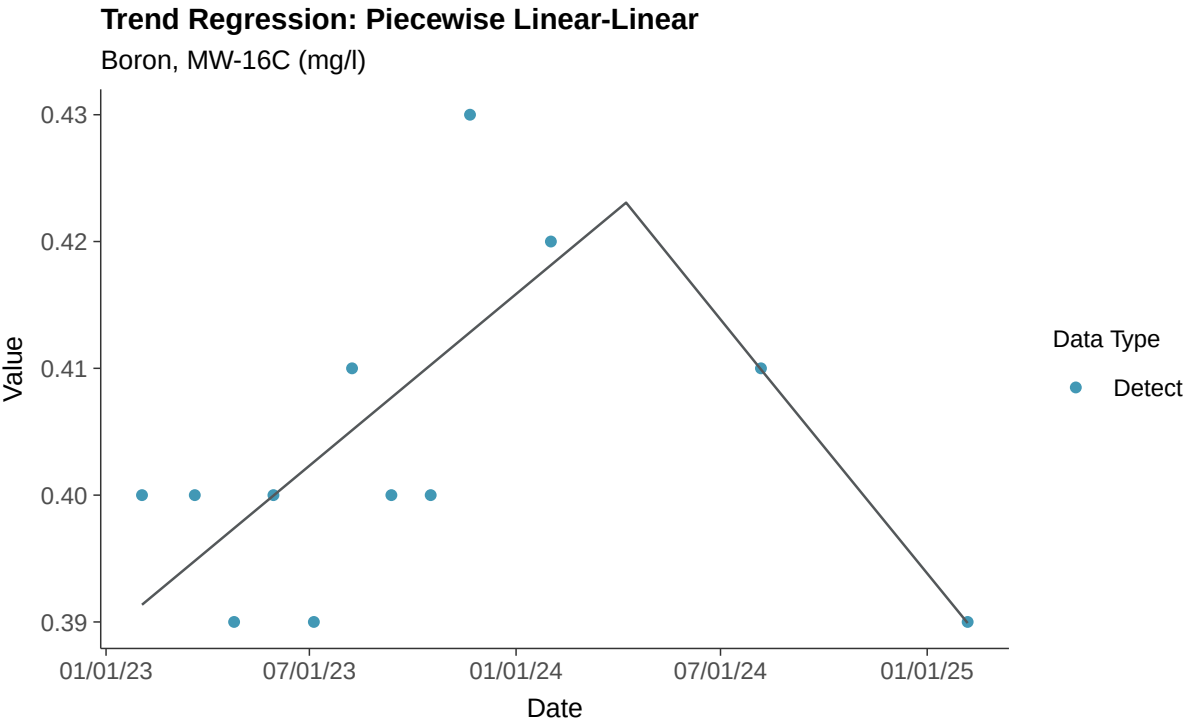
ID: 12_2_105







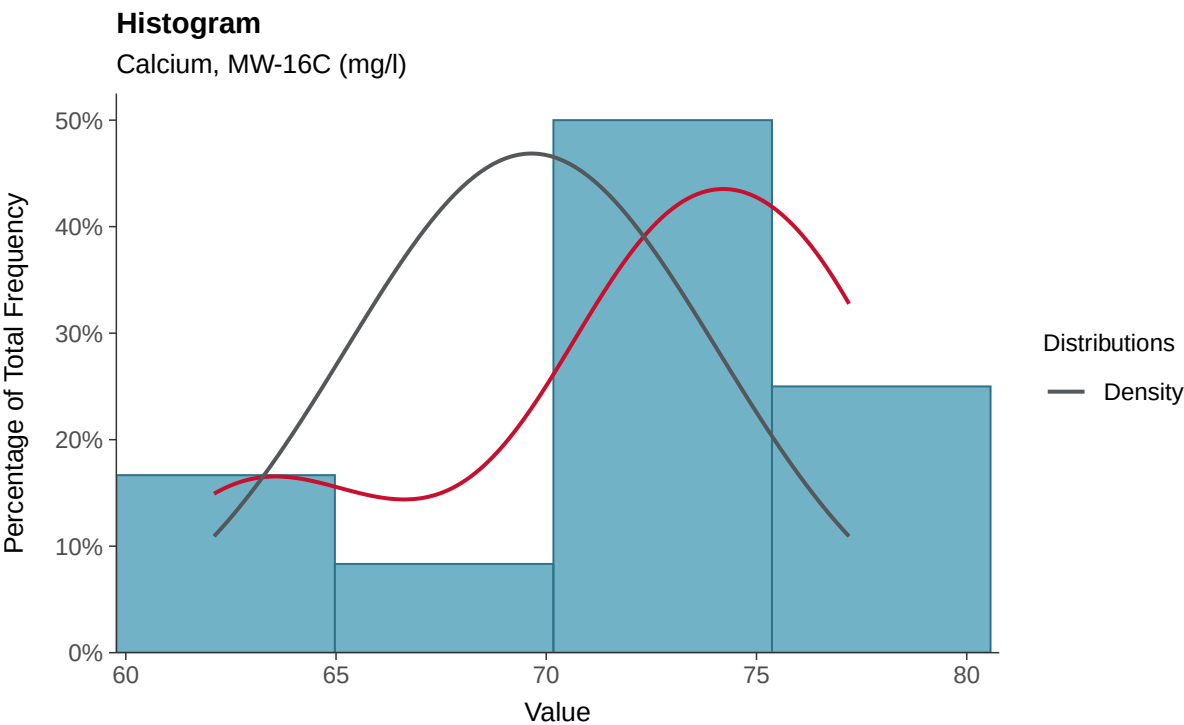
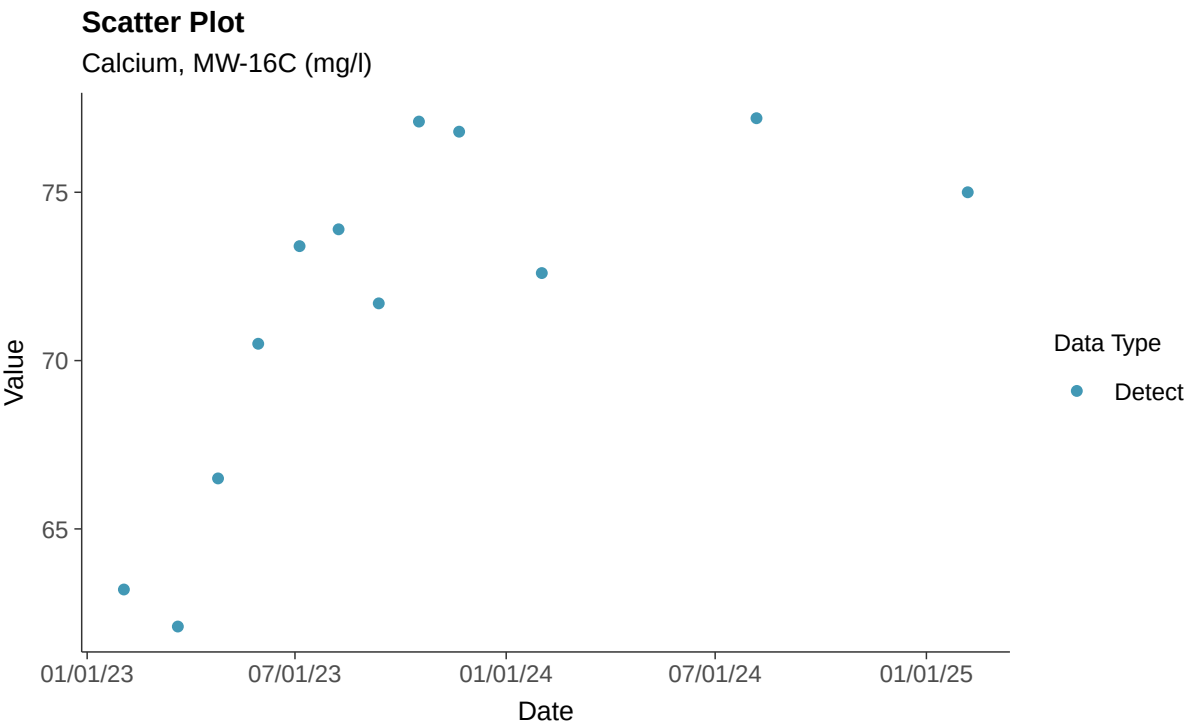


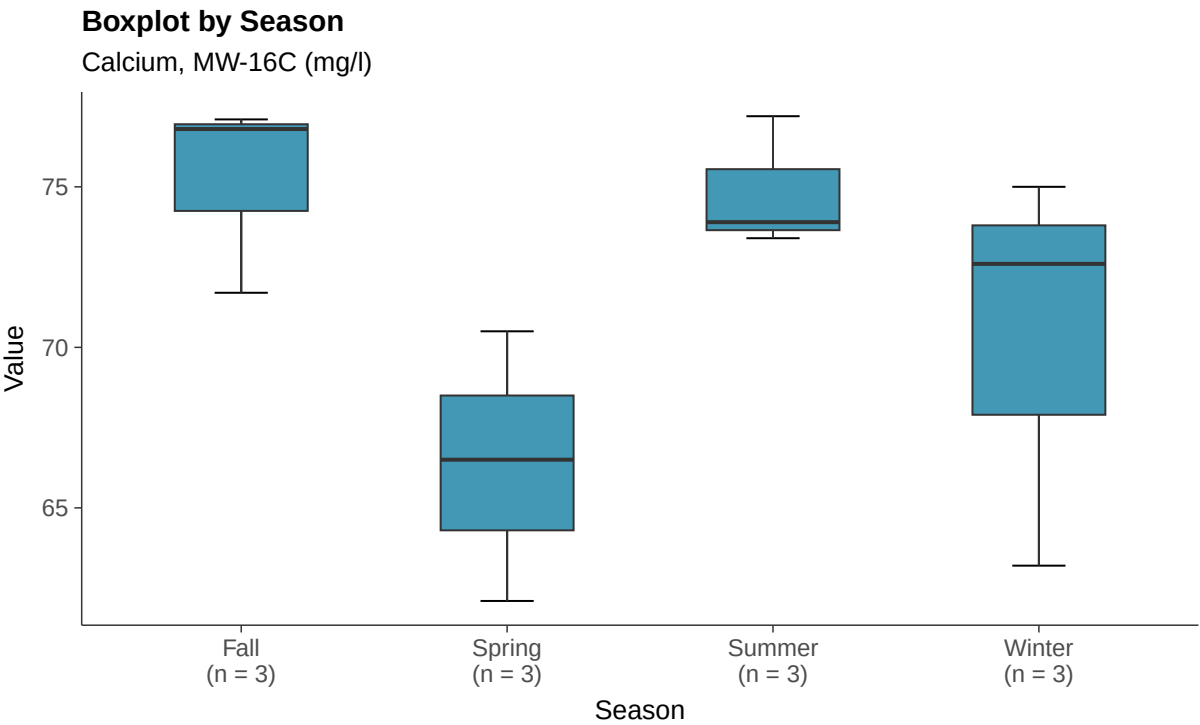
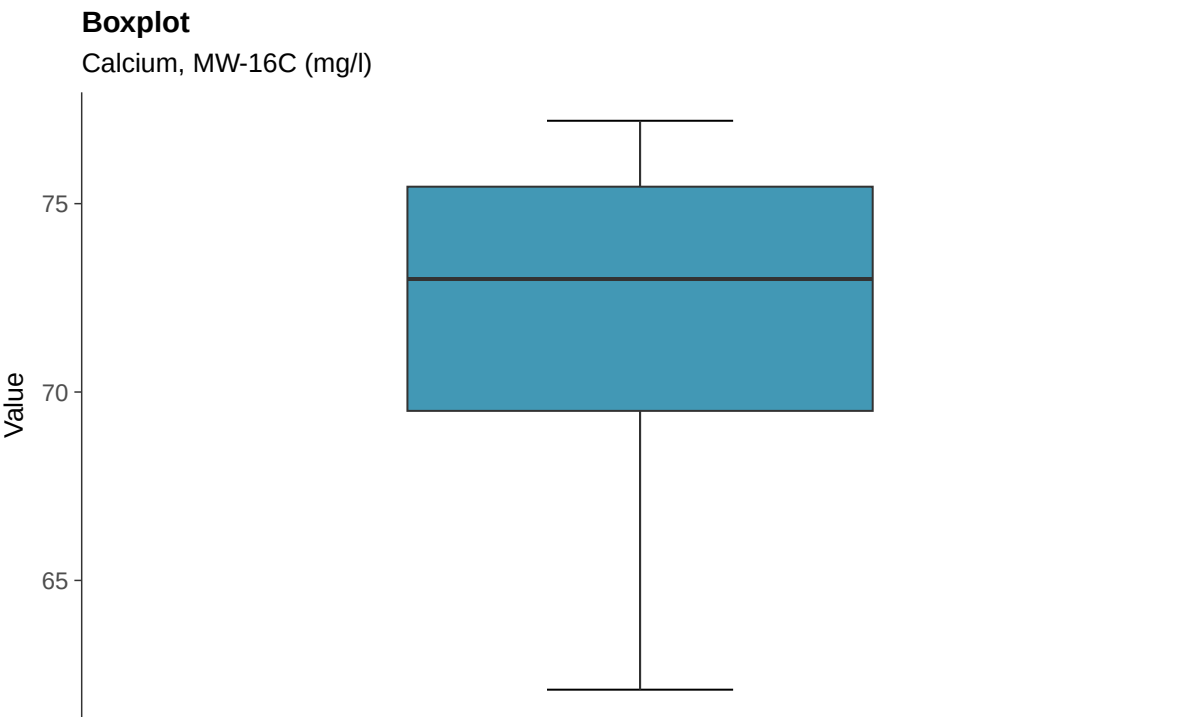


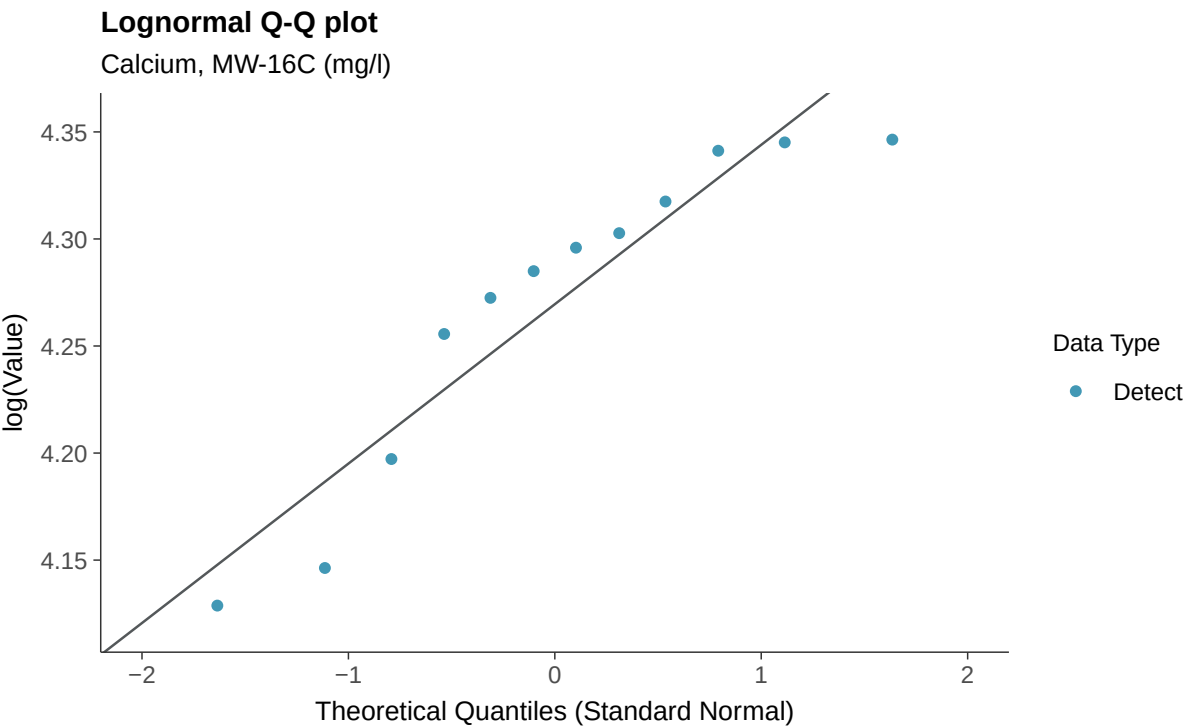
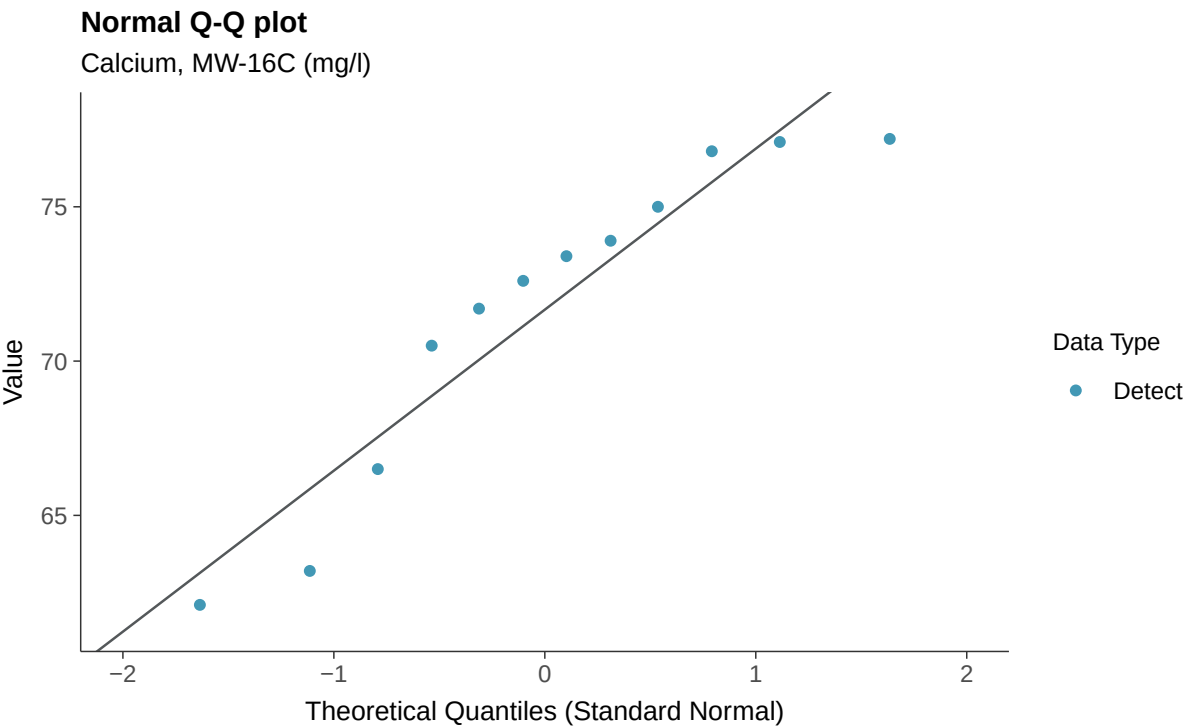


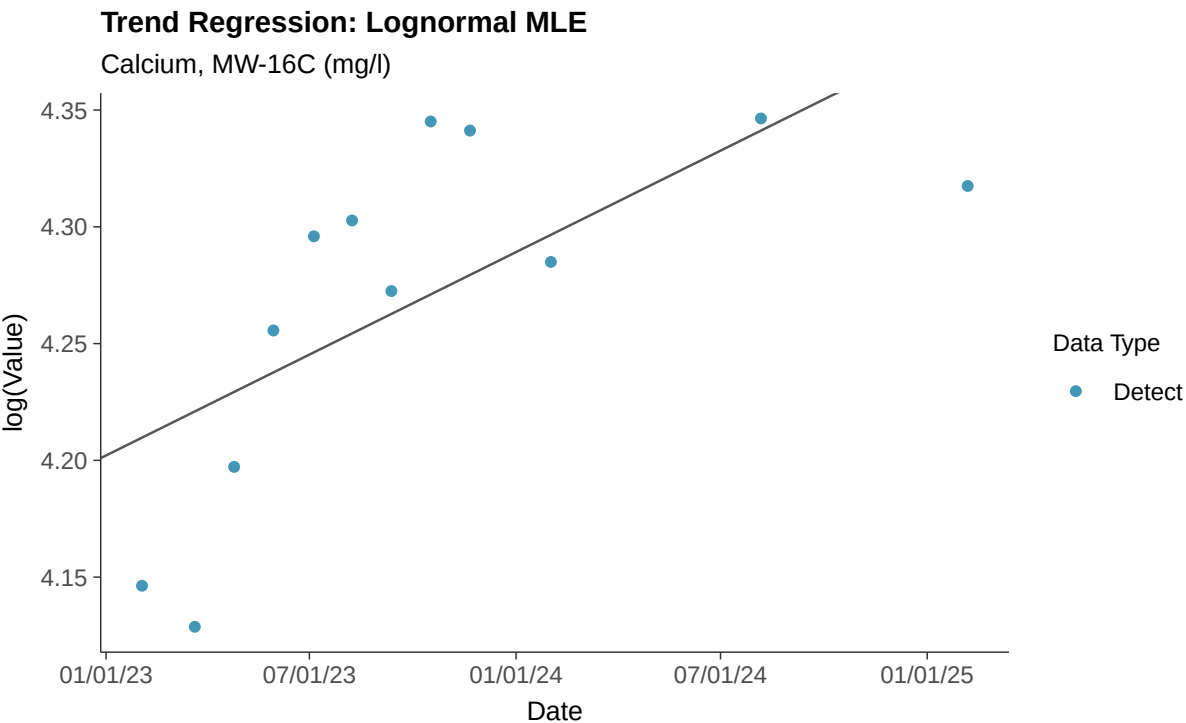
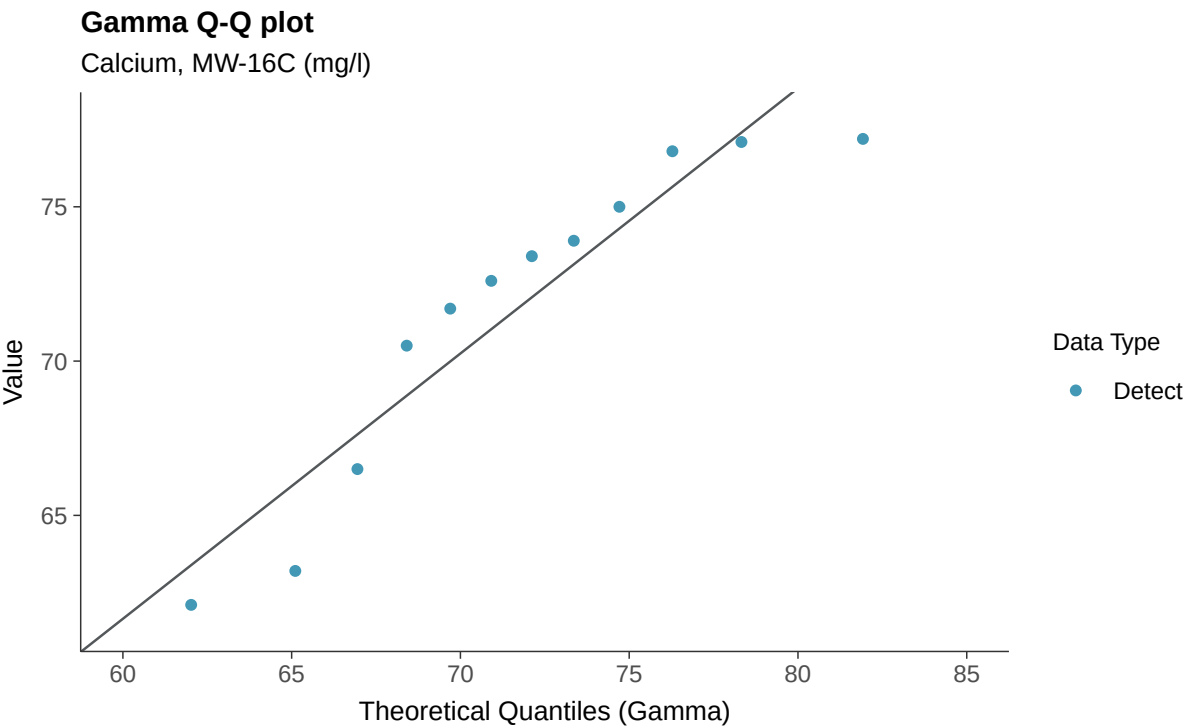
Appendix III: Calcium, MW-16C

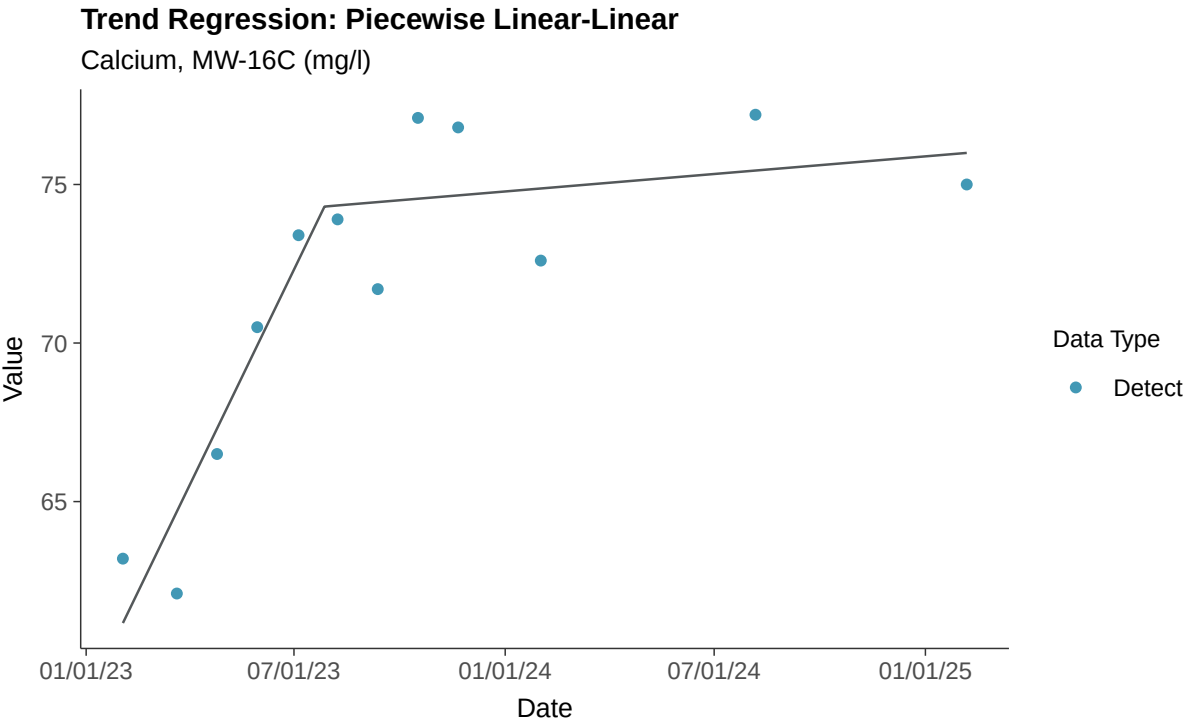
ID: 12_2_107







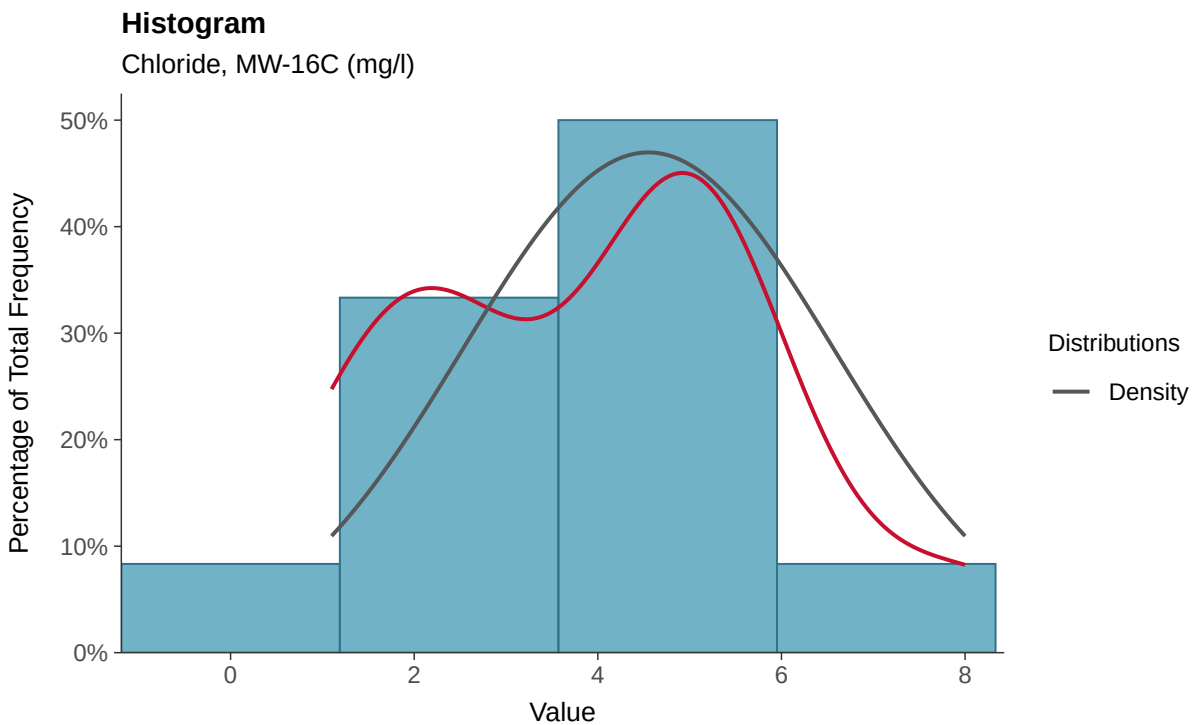
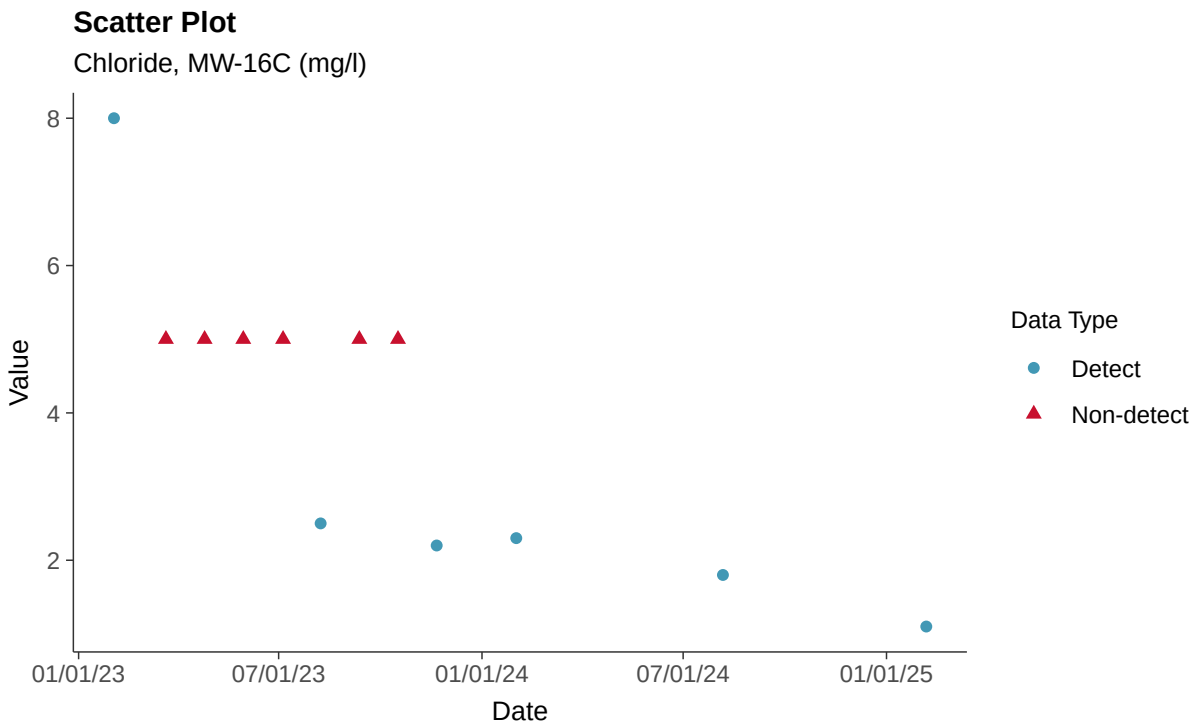


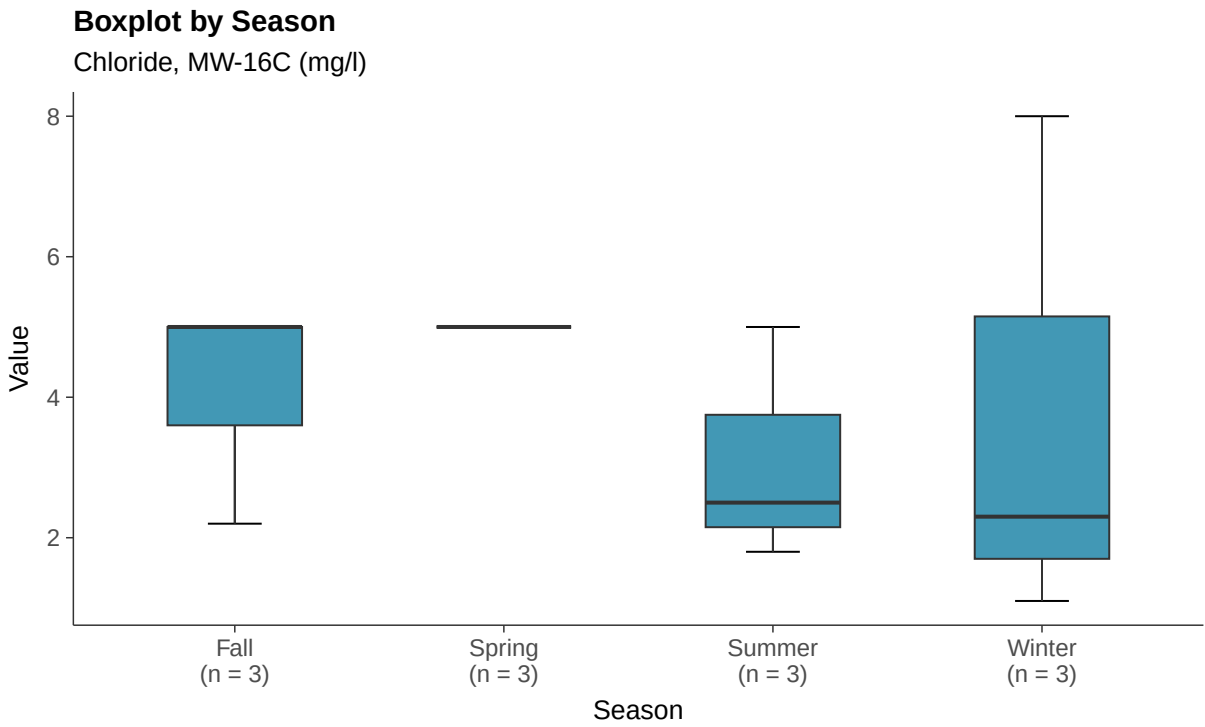
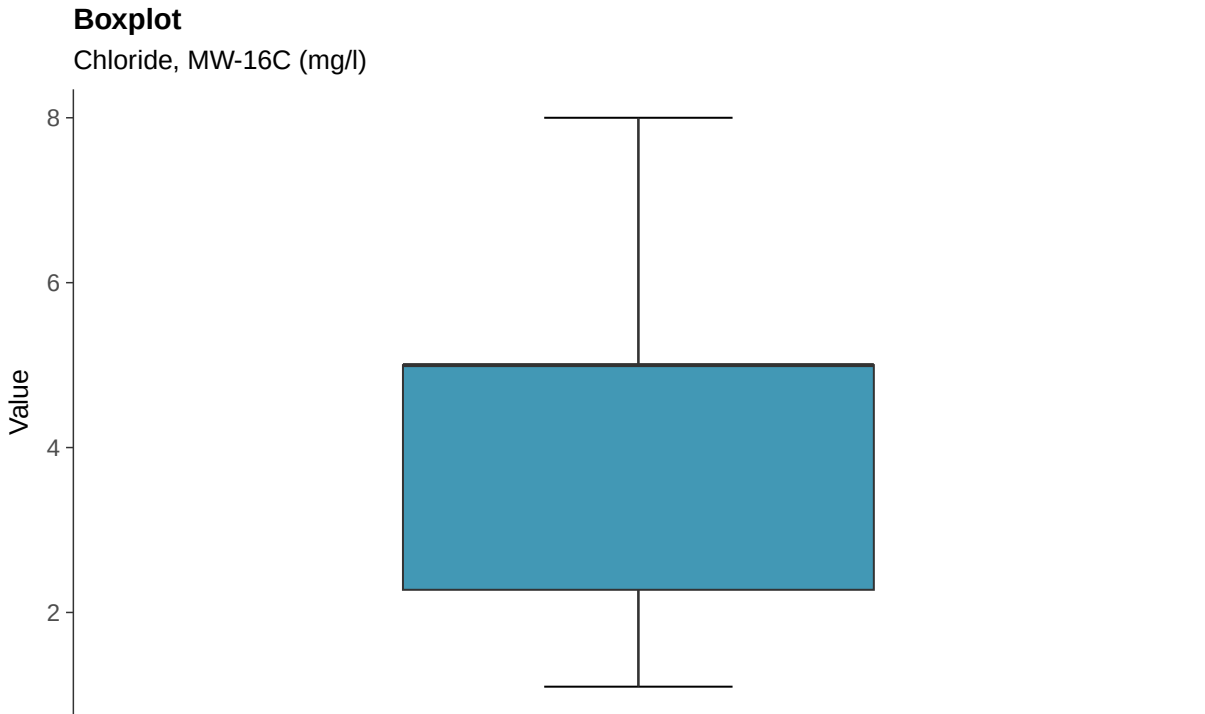




Appendix III: Chloride, MW-16C

ID: 12_2_108

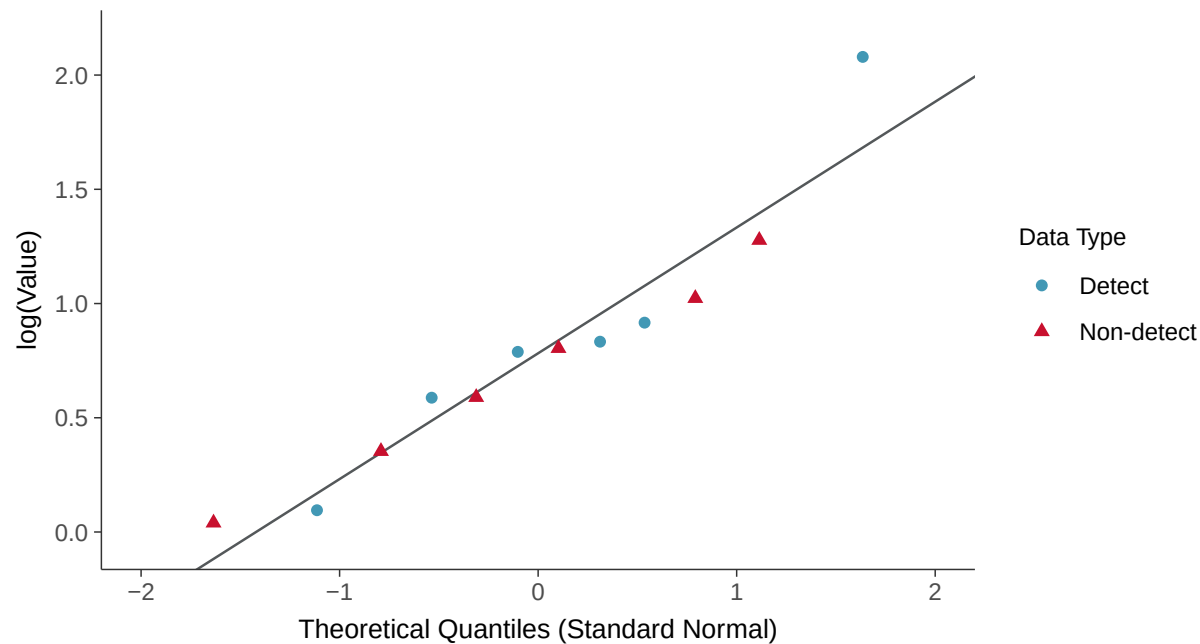






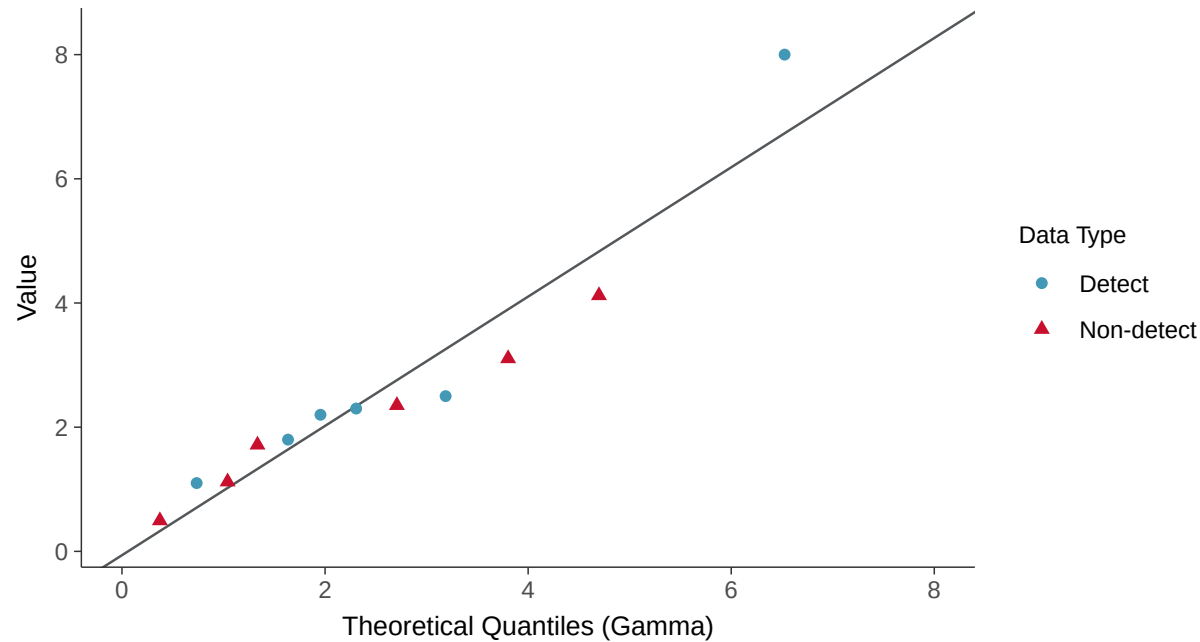
Lognormal Q-Q plot using ROS Imputed Estimates

Chloride, MW-16C (mg/l)



Gamma Q-Q plot using ROS Imputed Estimates

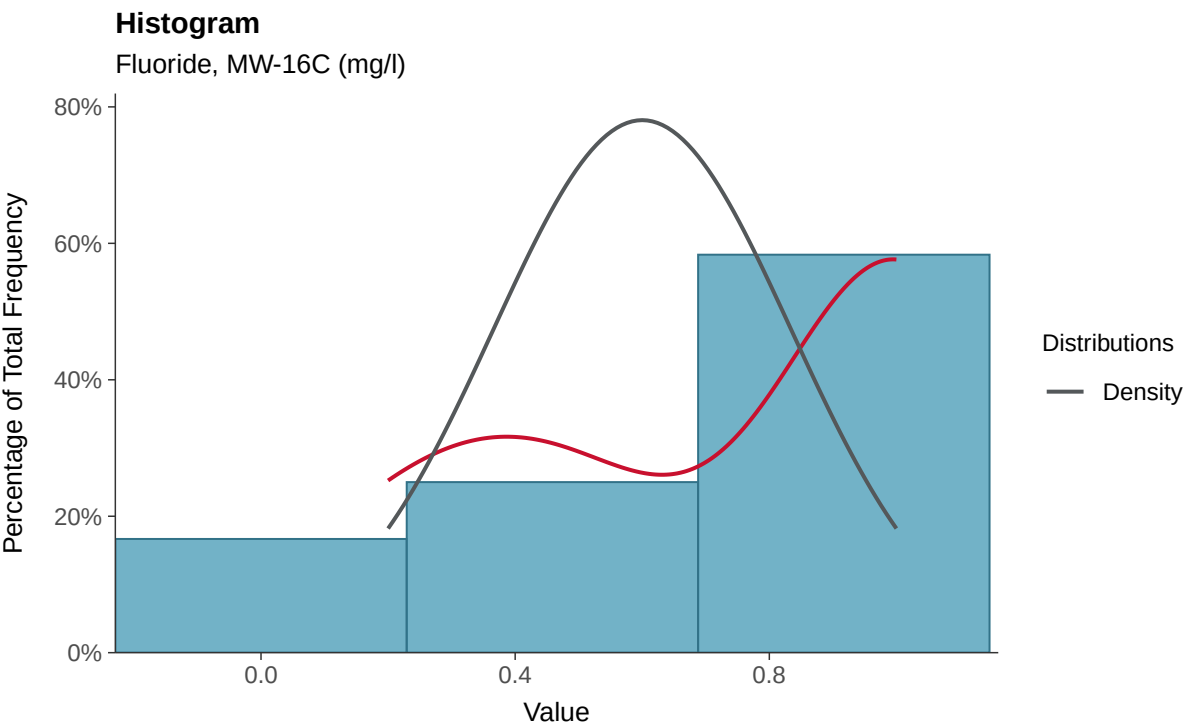
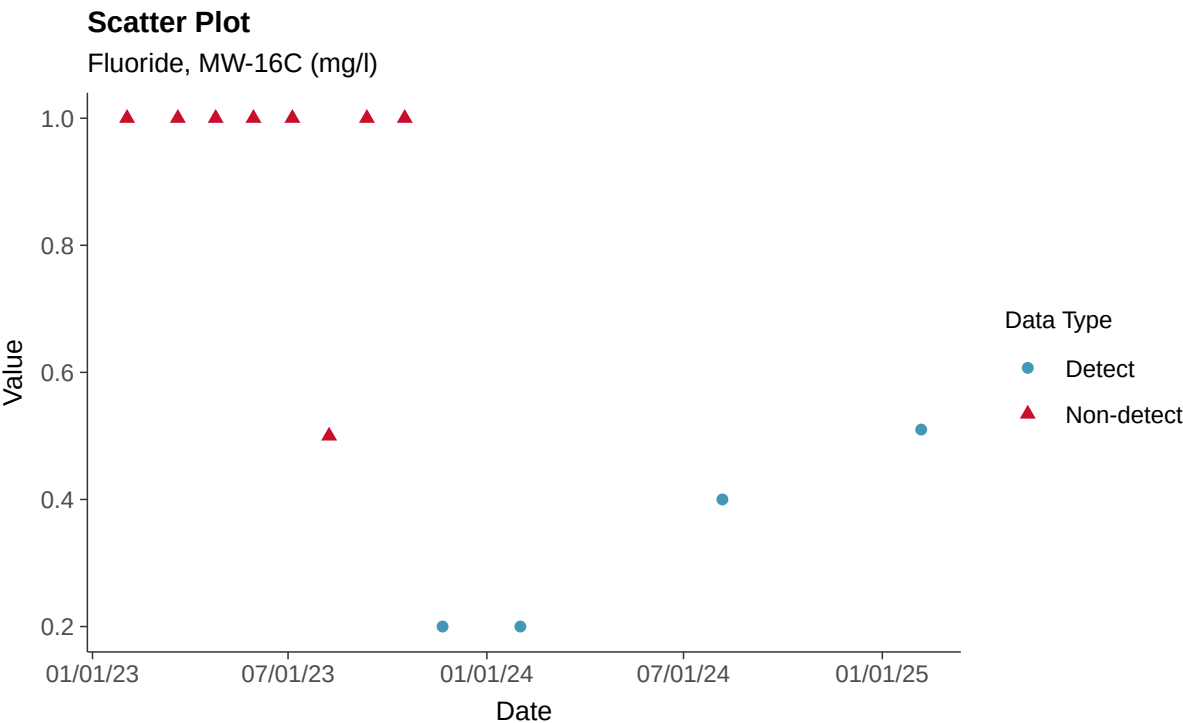
Chloride, MW-16C (mg/l)

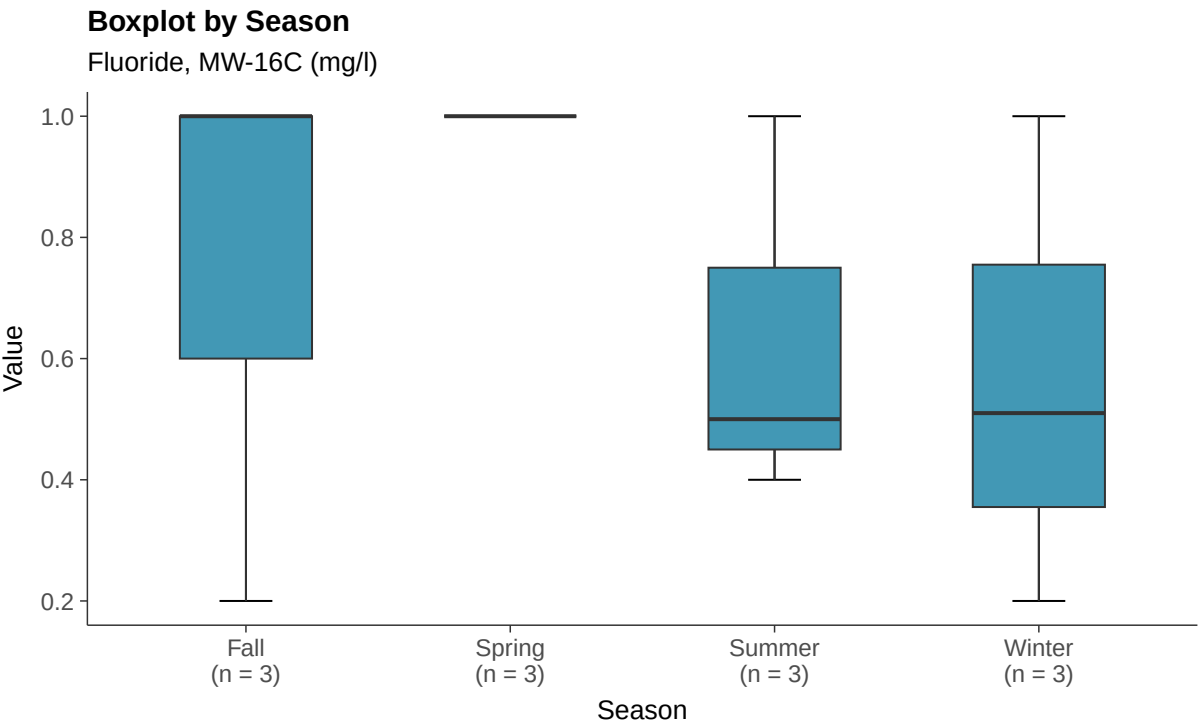
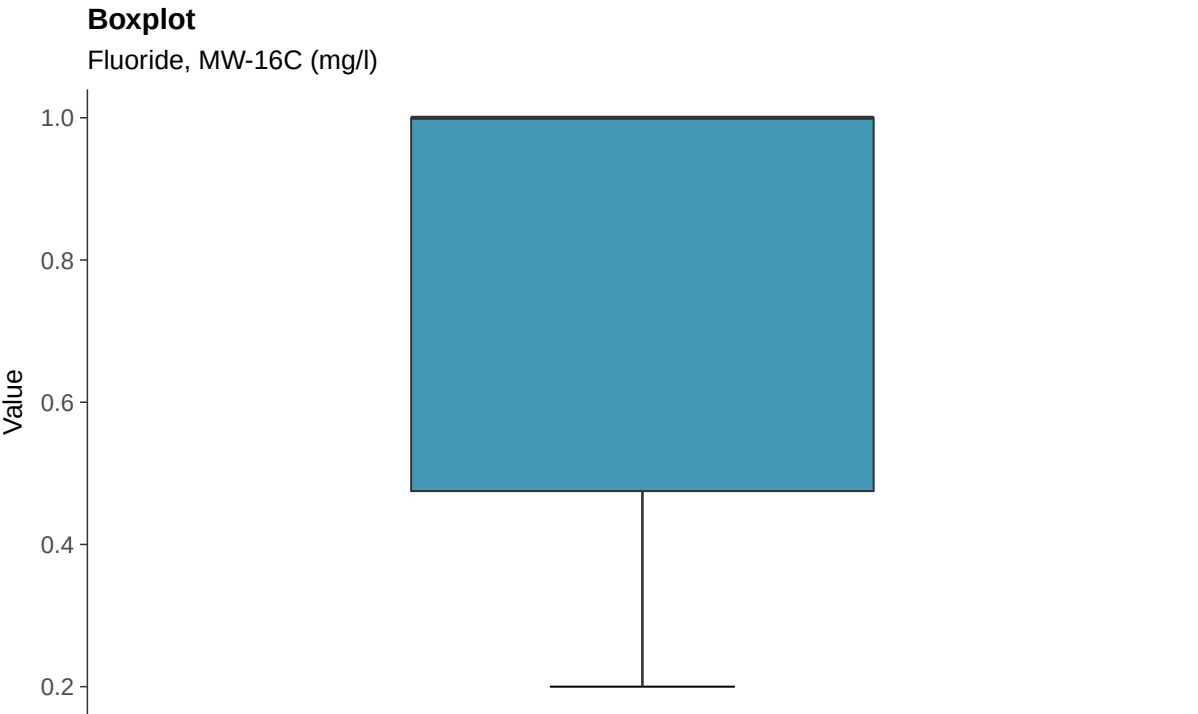




Appendix III: Fluoride, MW-16C

ID: 12_2_112

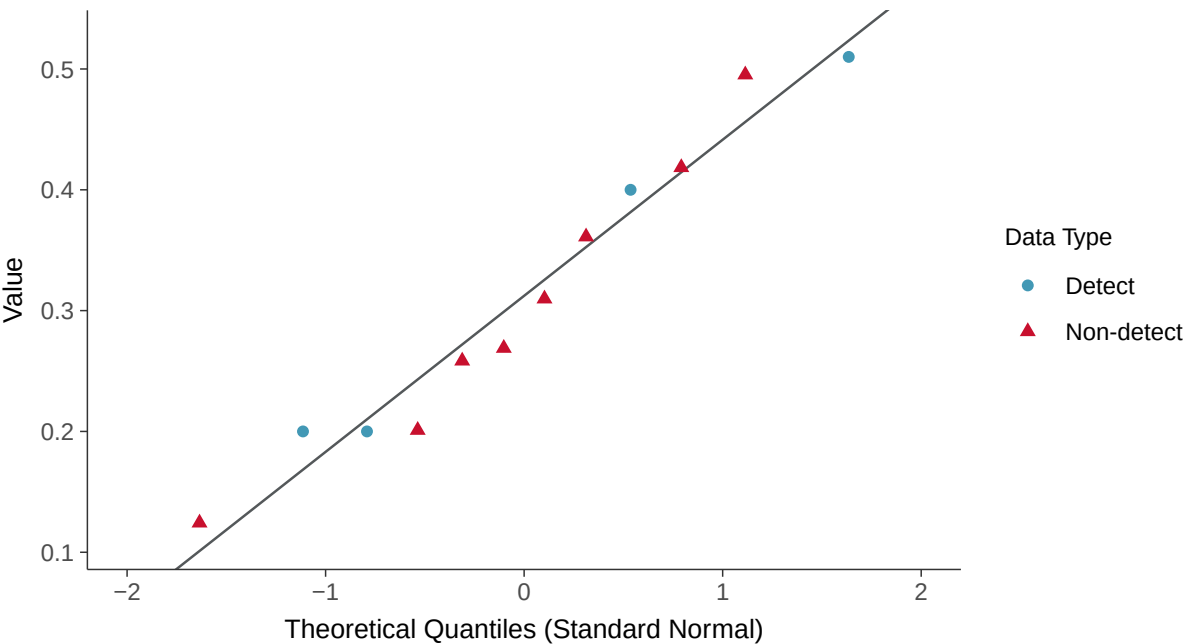






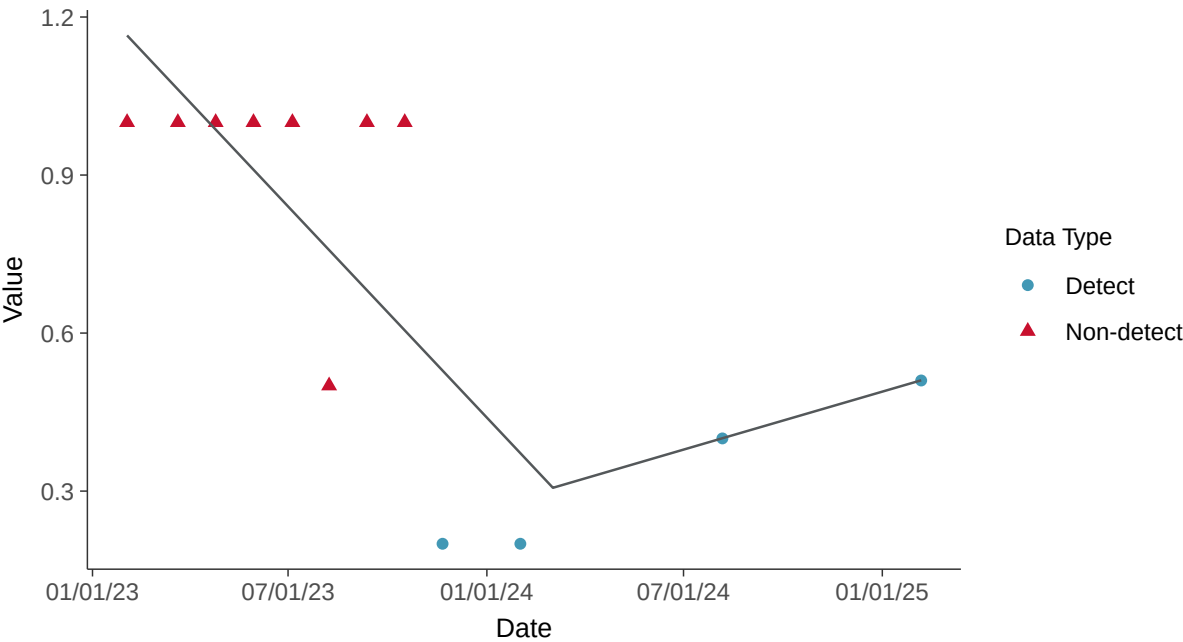
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-16C (mg/l)



Trend Regression: Piecewise Linear-Linear

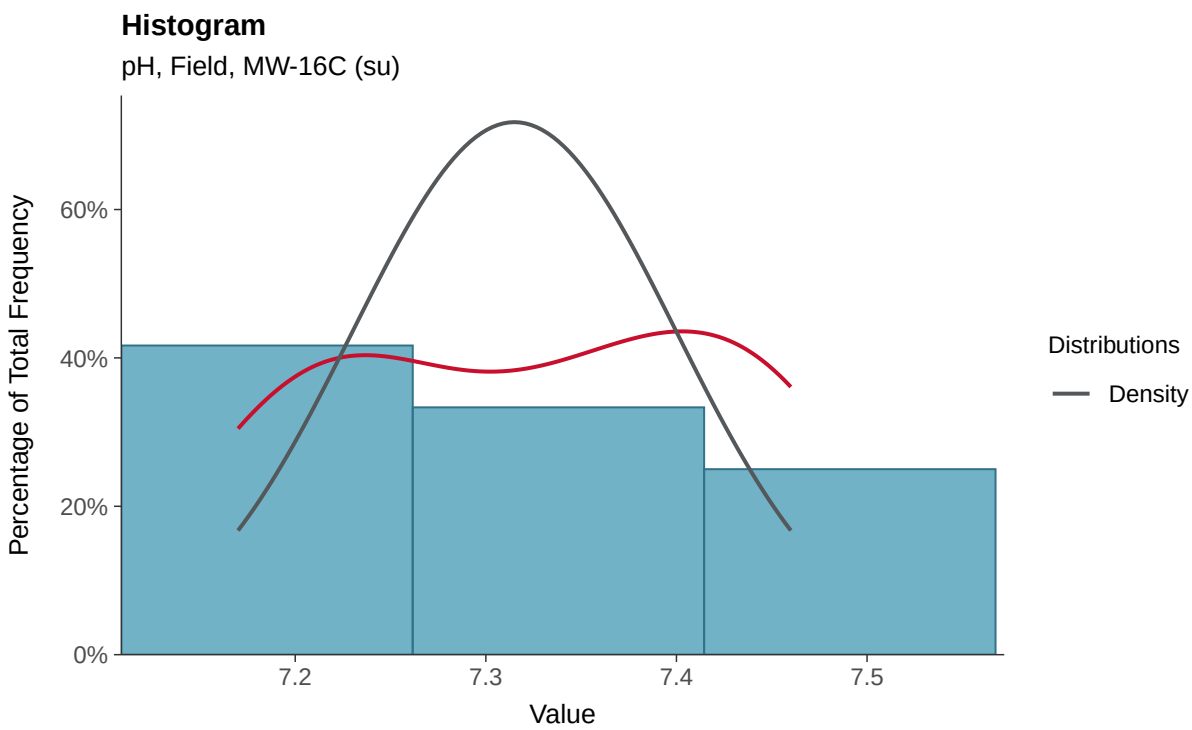
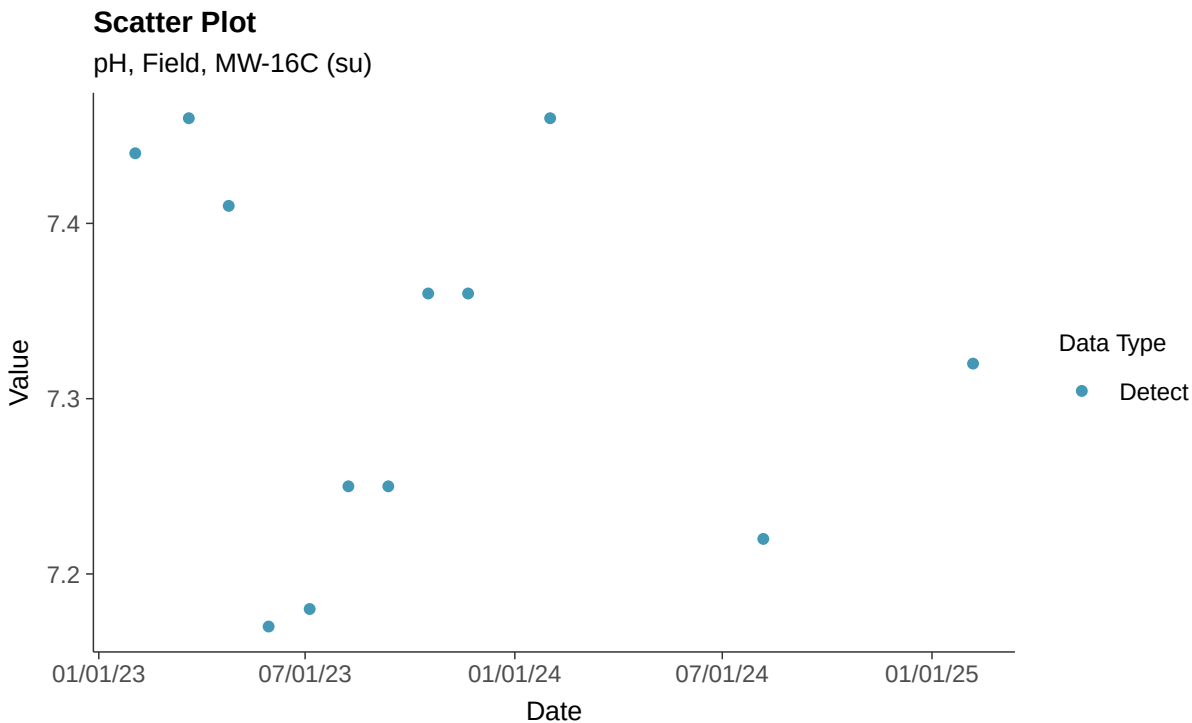
Fluoride, MW-16C (mg/l)

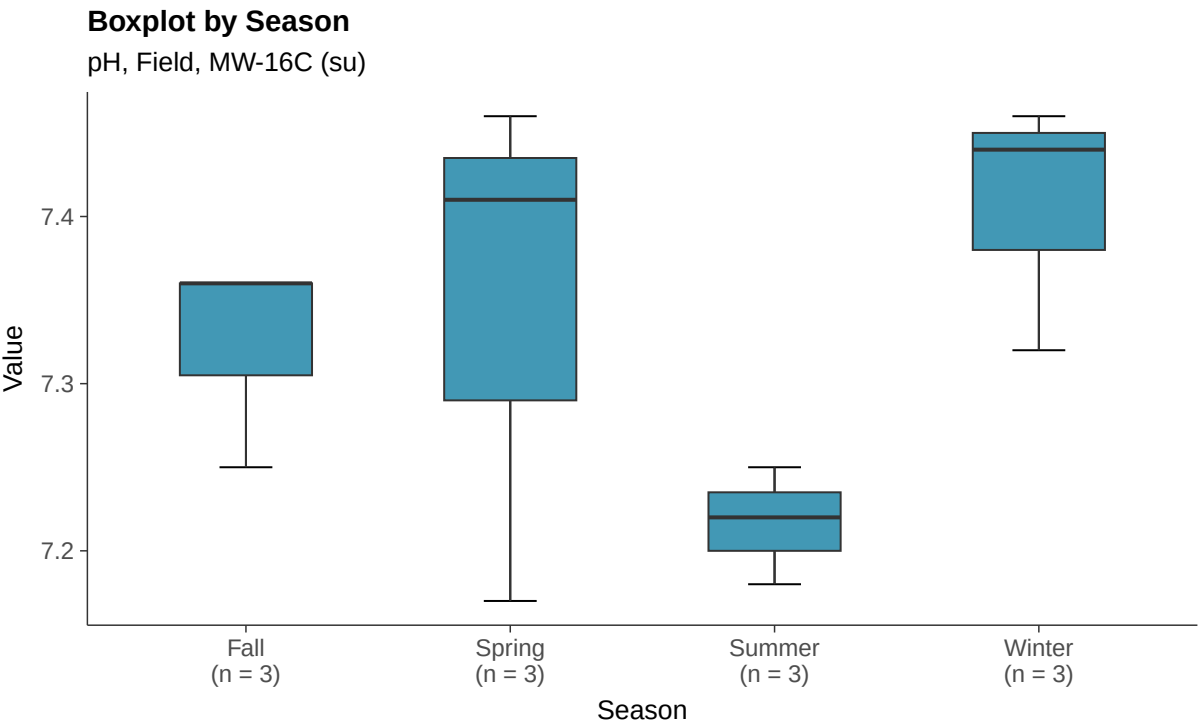
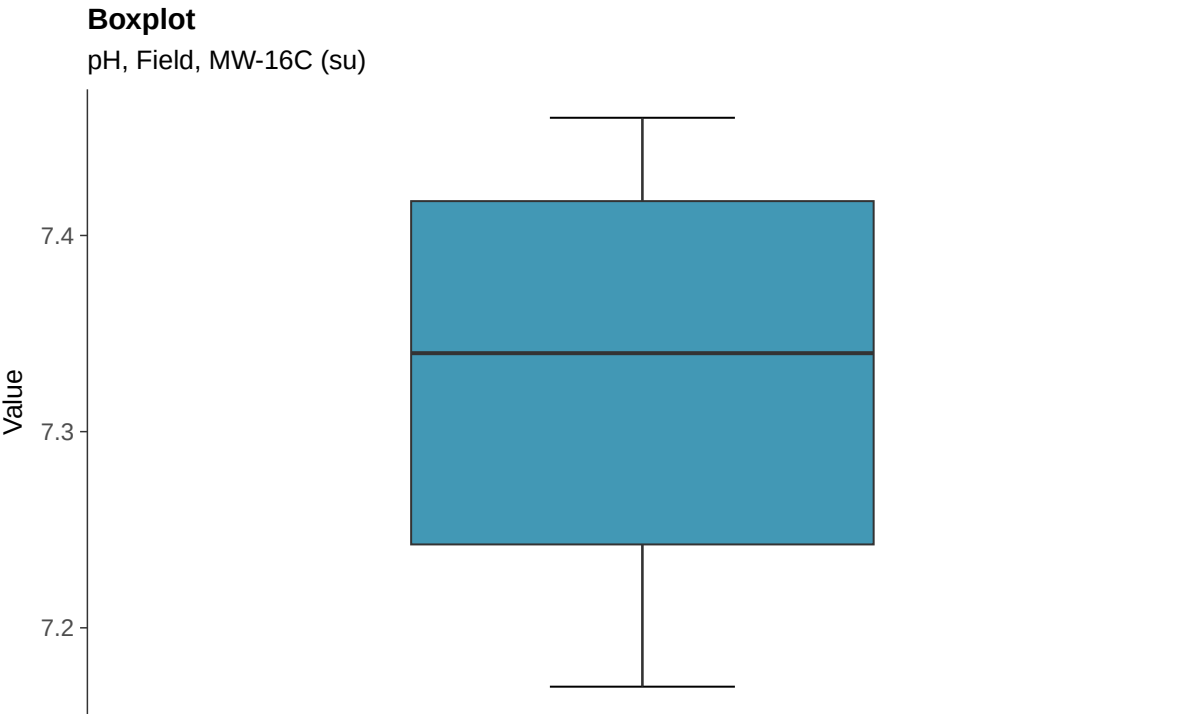


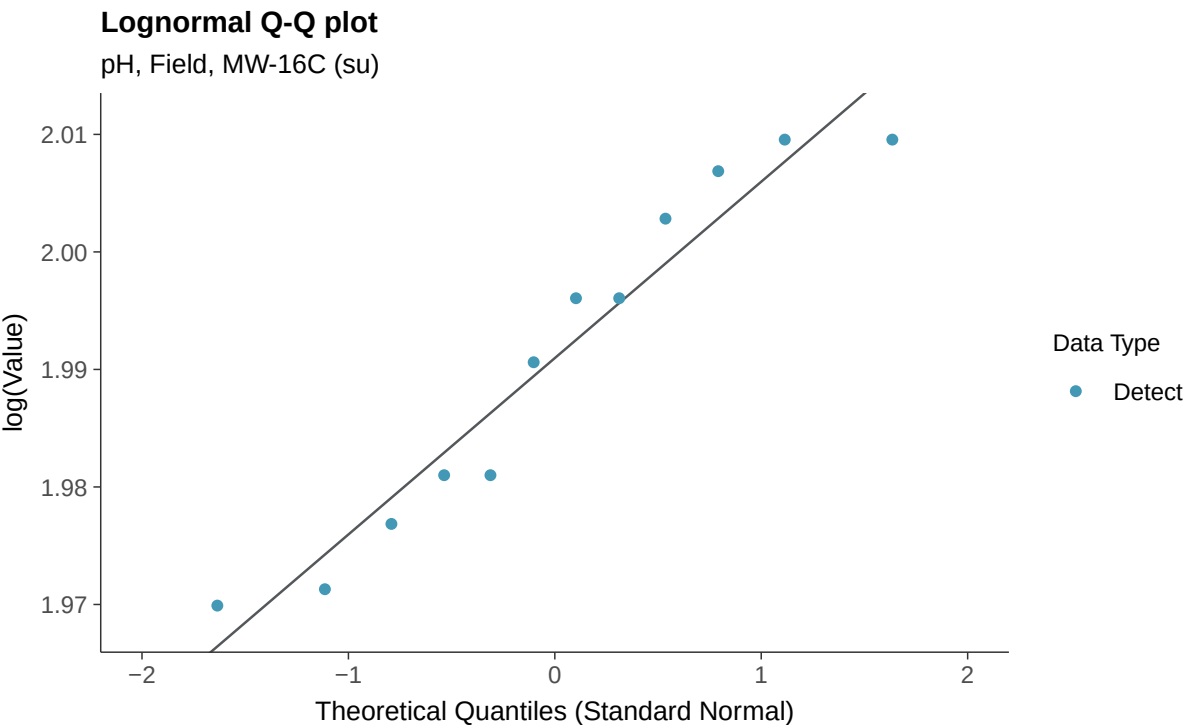
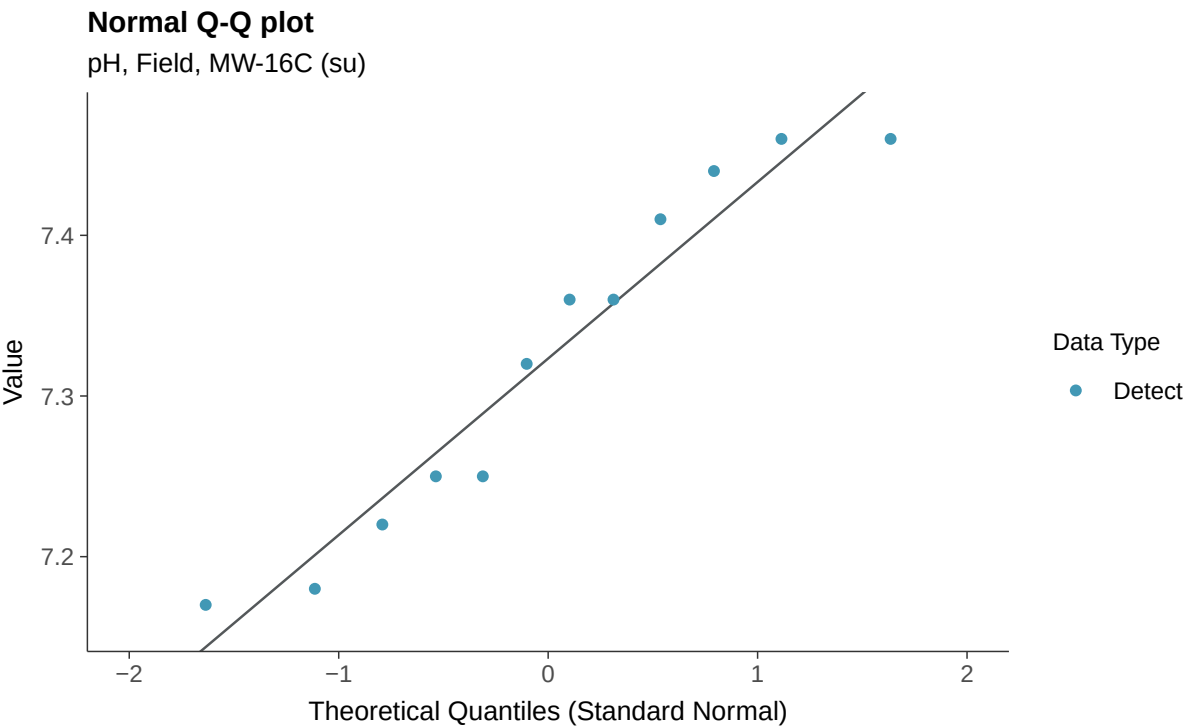


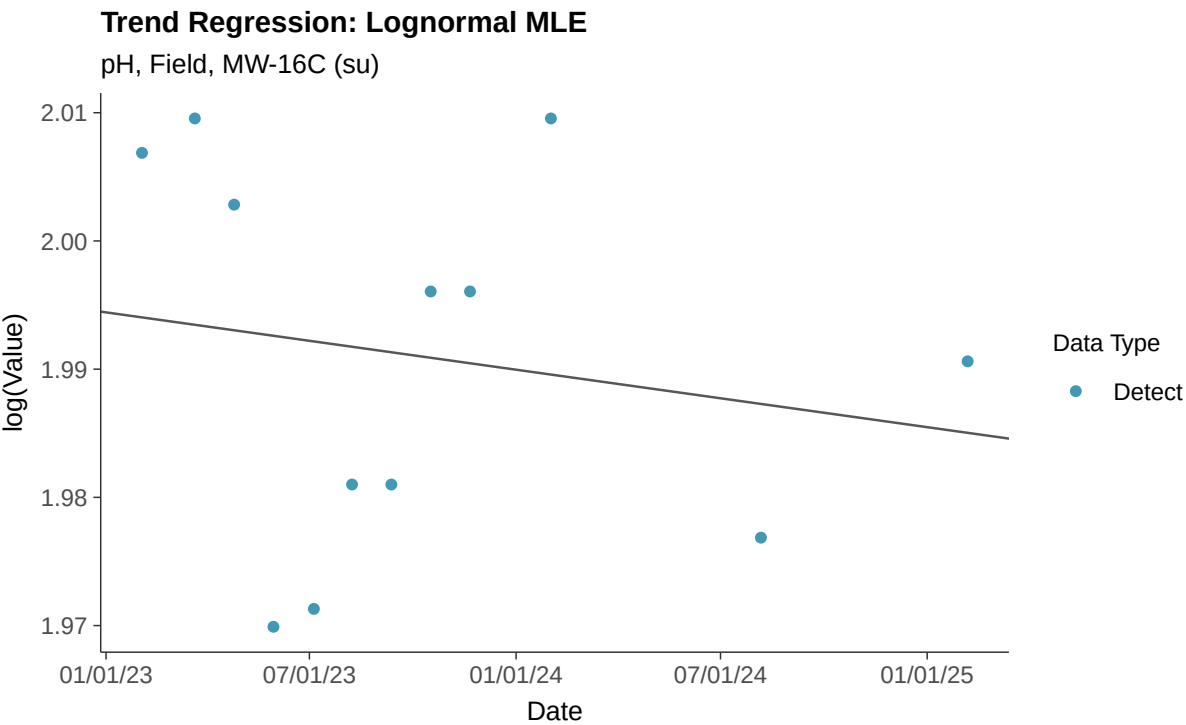
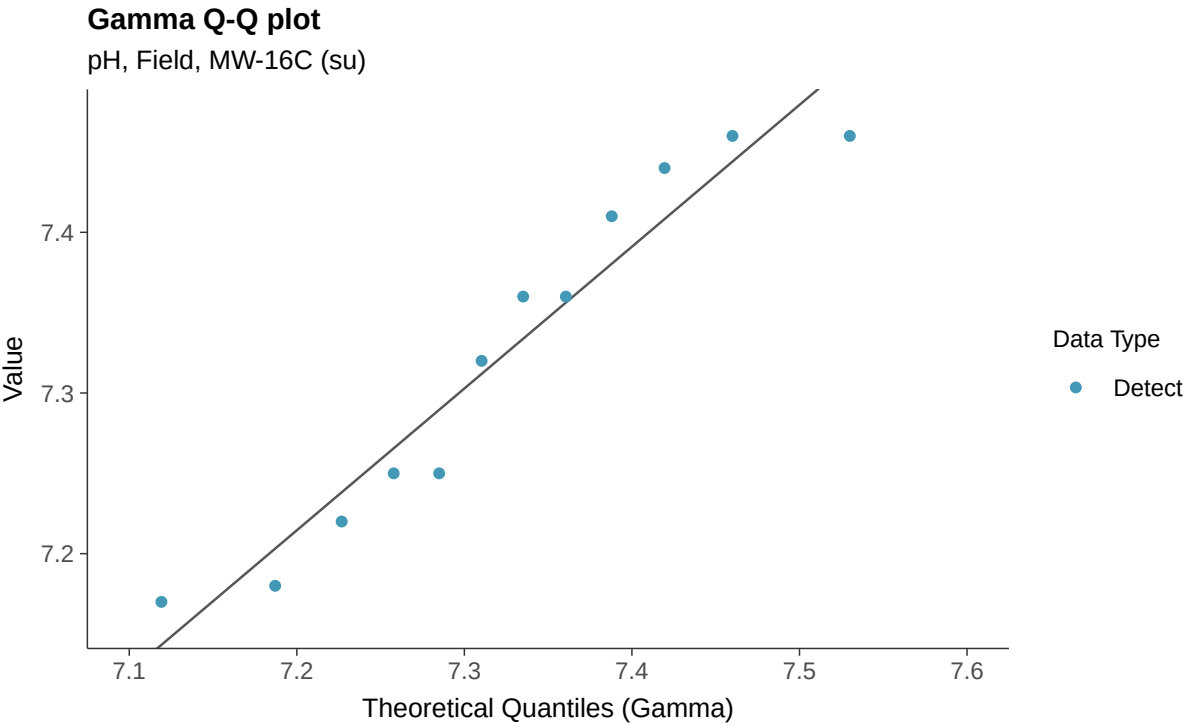
Appendix III: pH, Field, MW-16C

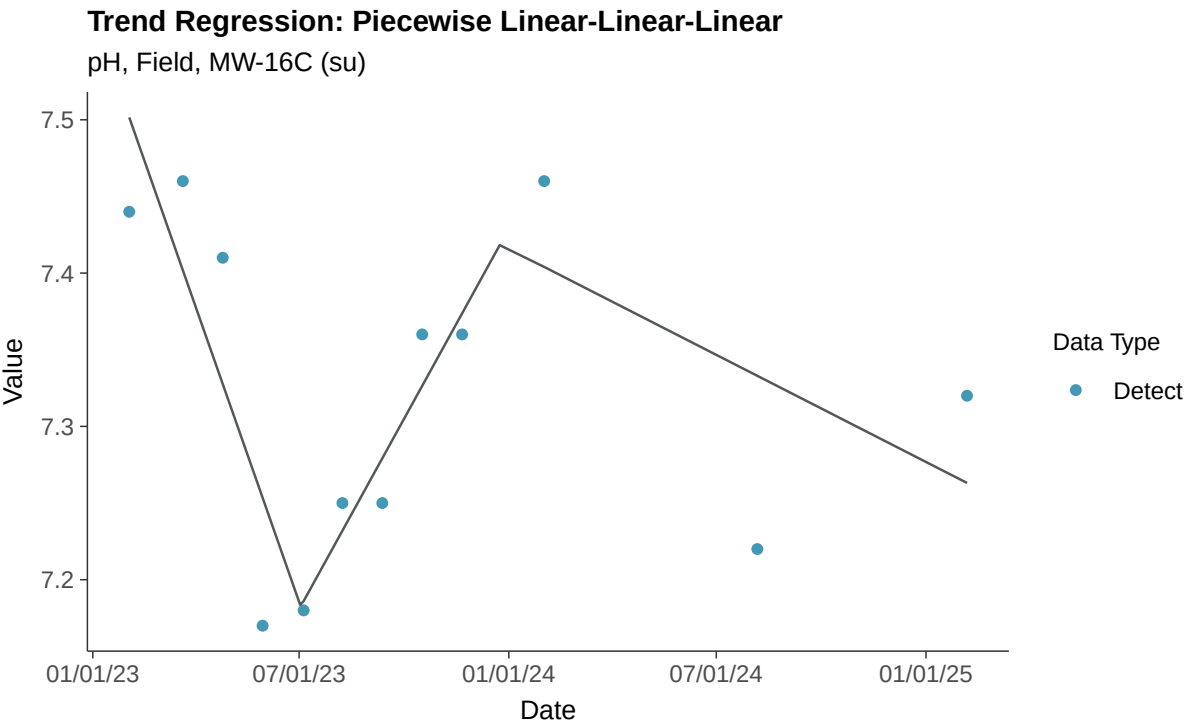
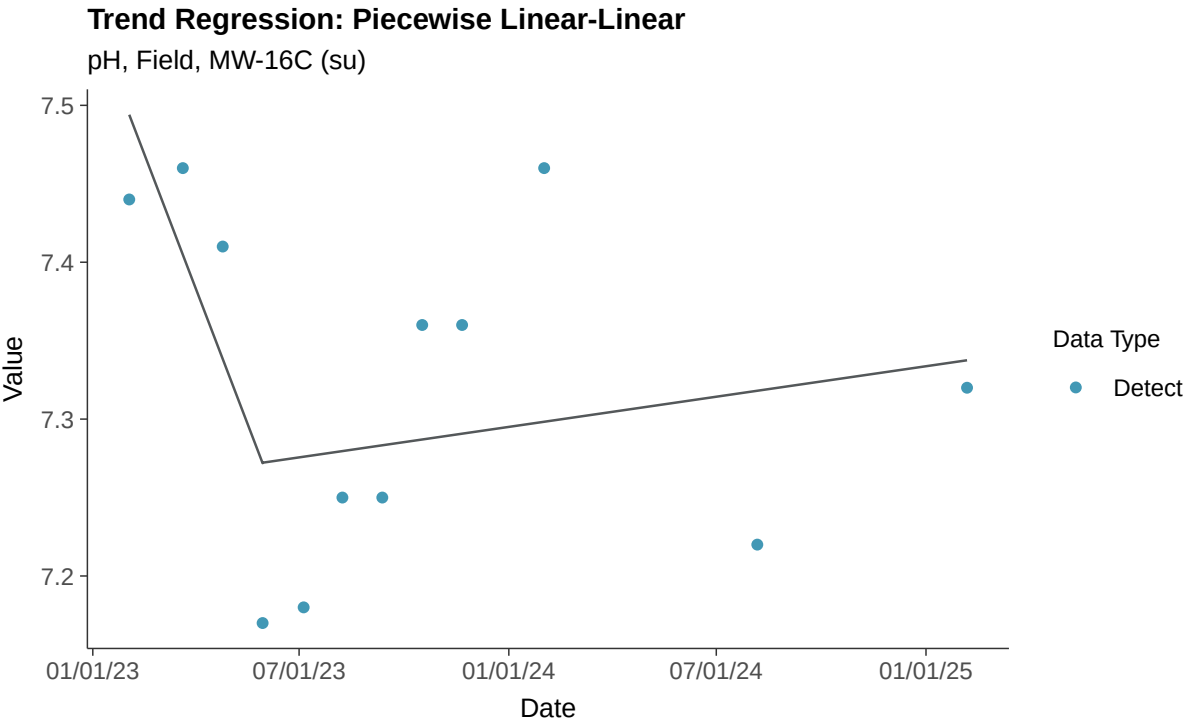
ID: 12_2_120







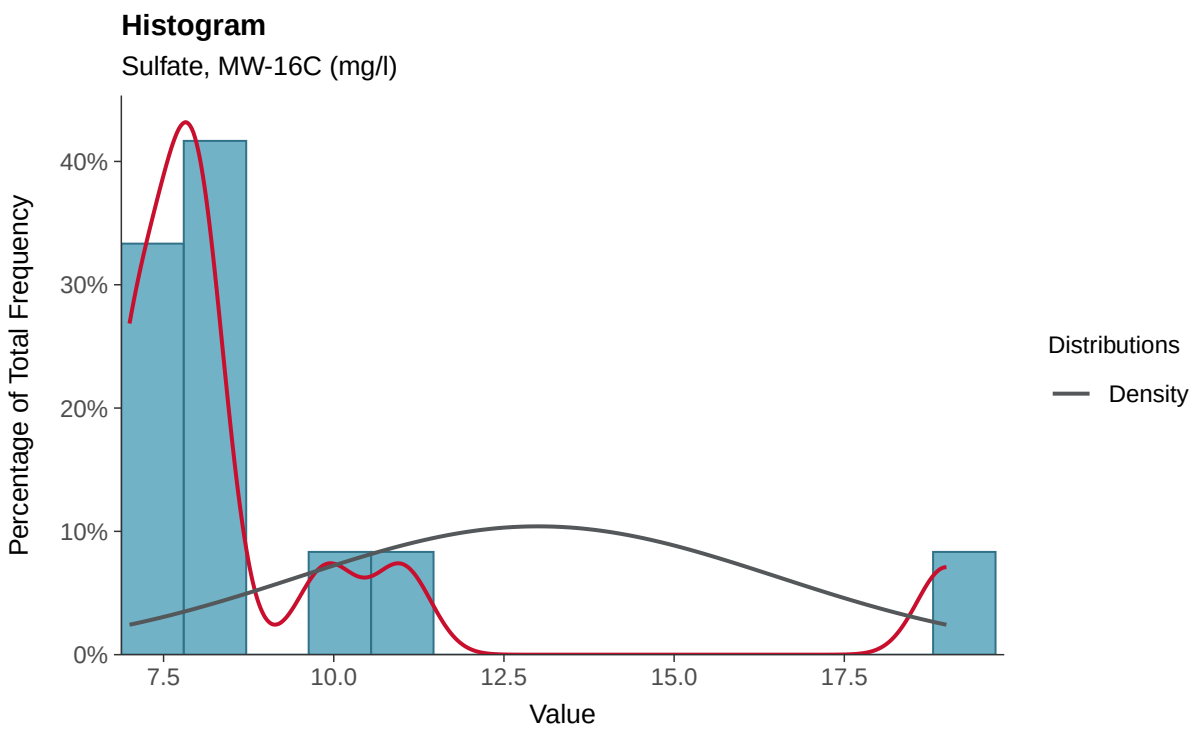
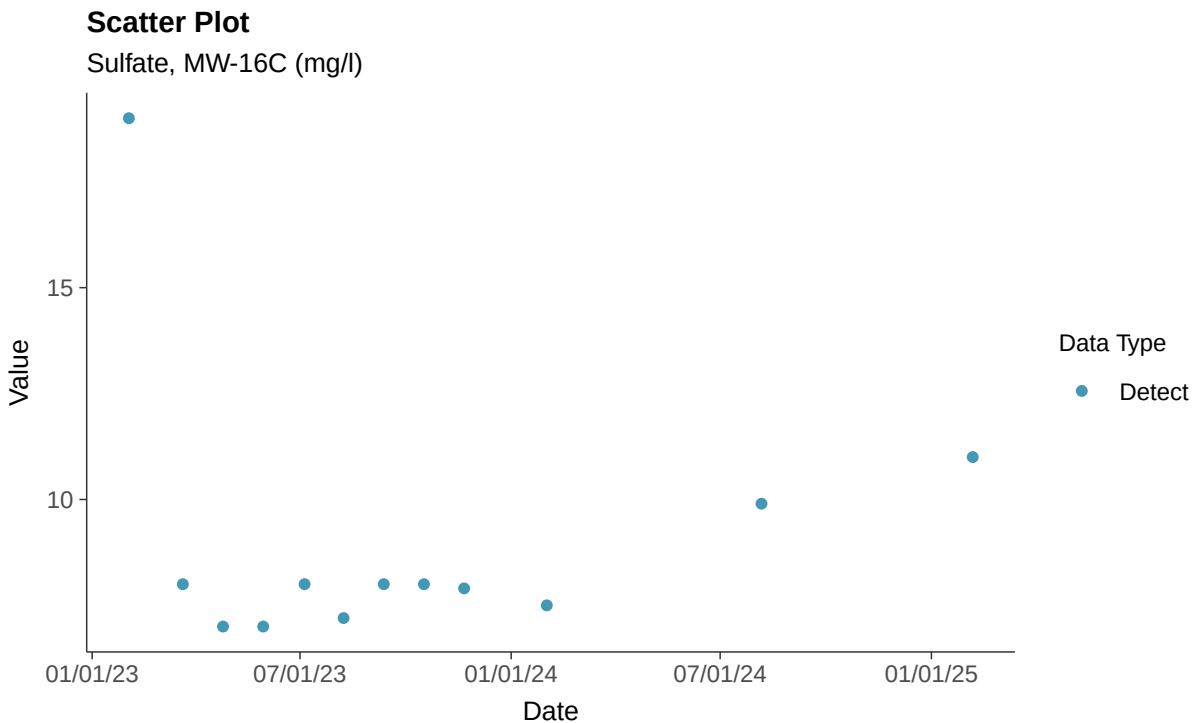


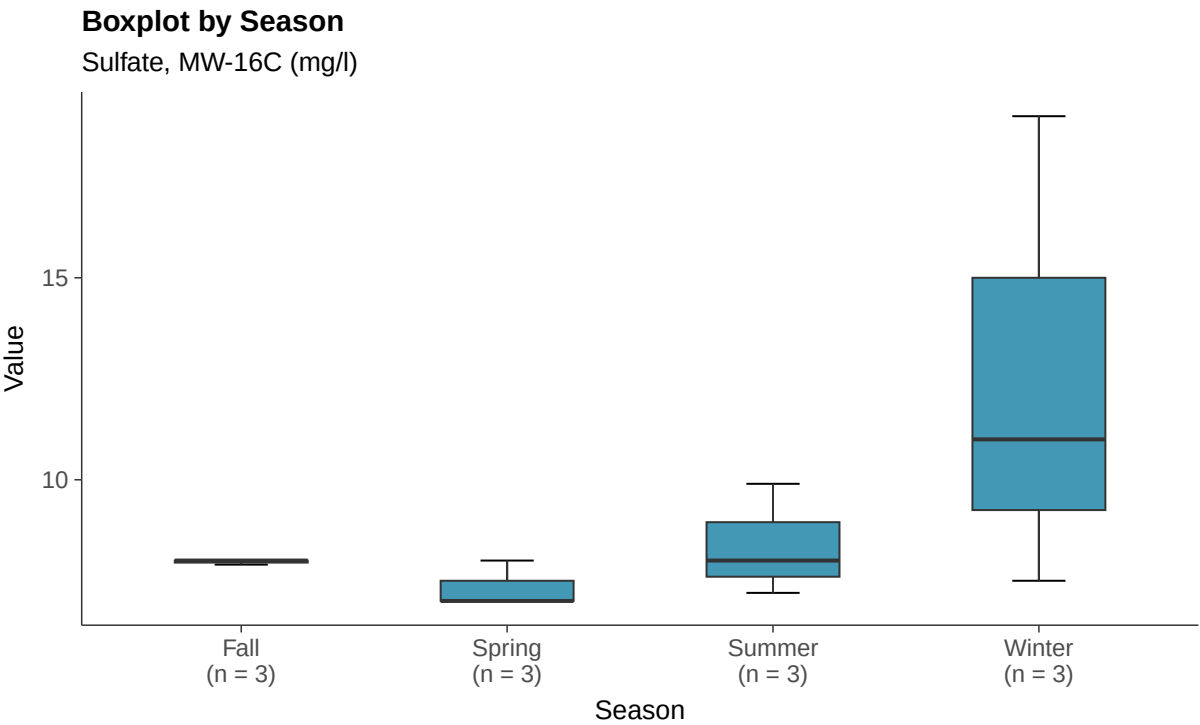
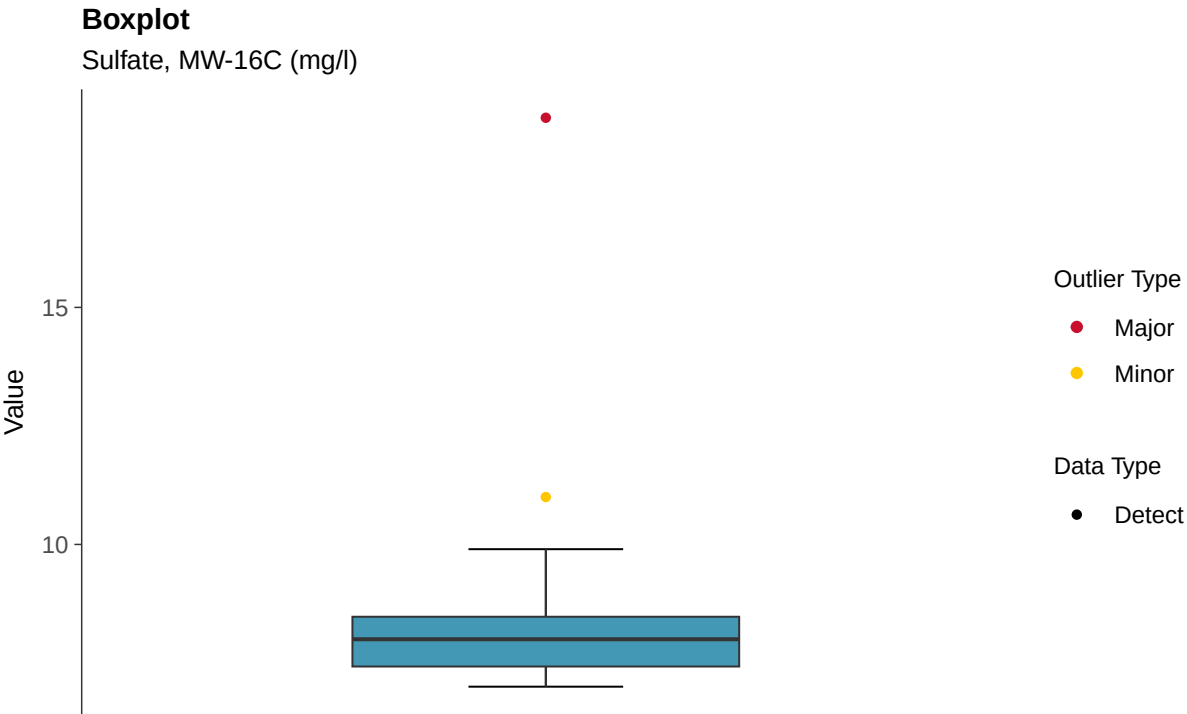


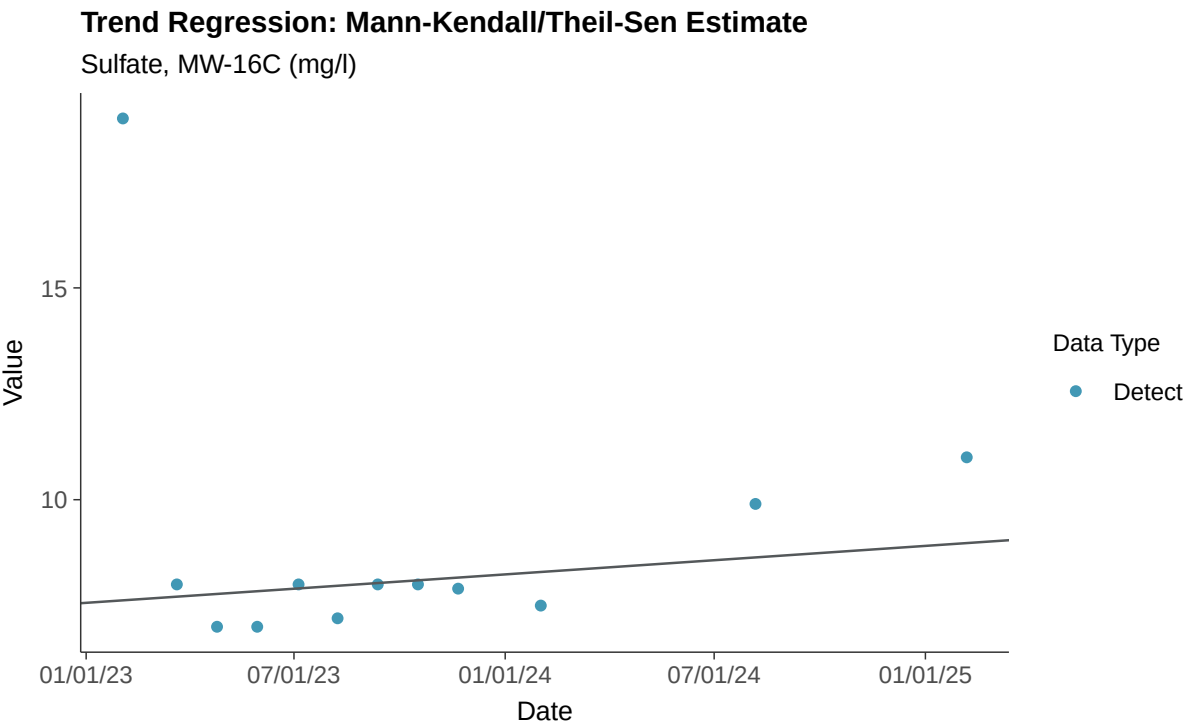
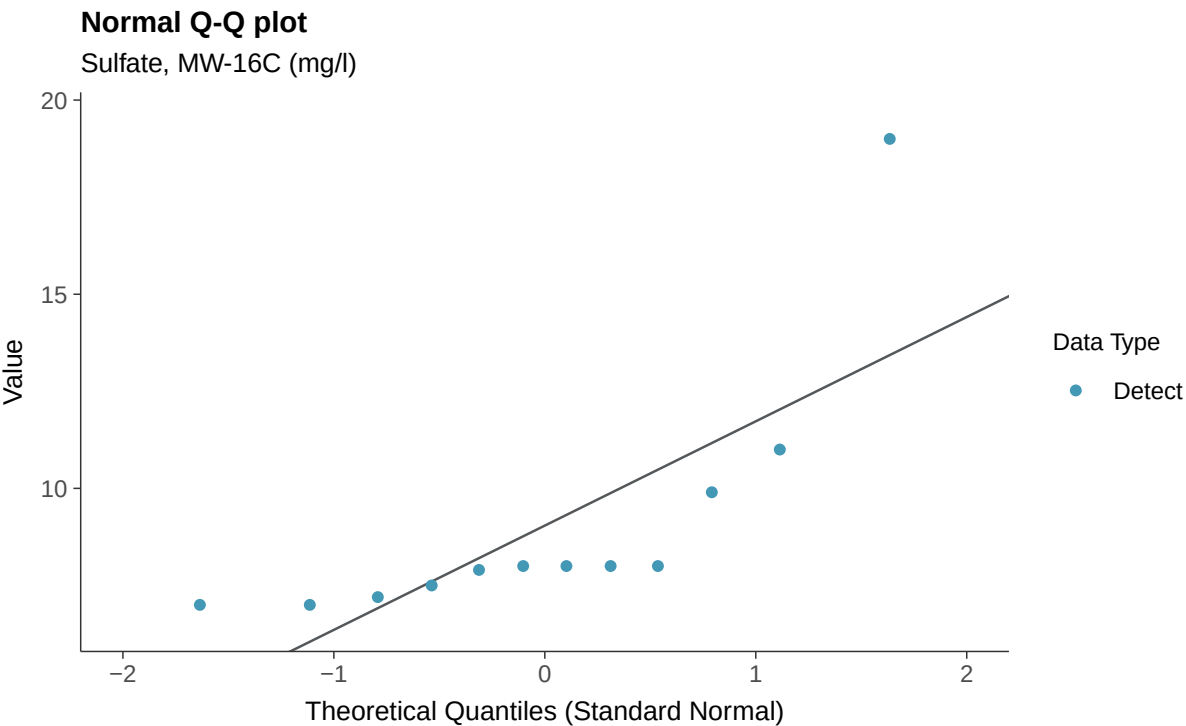


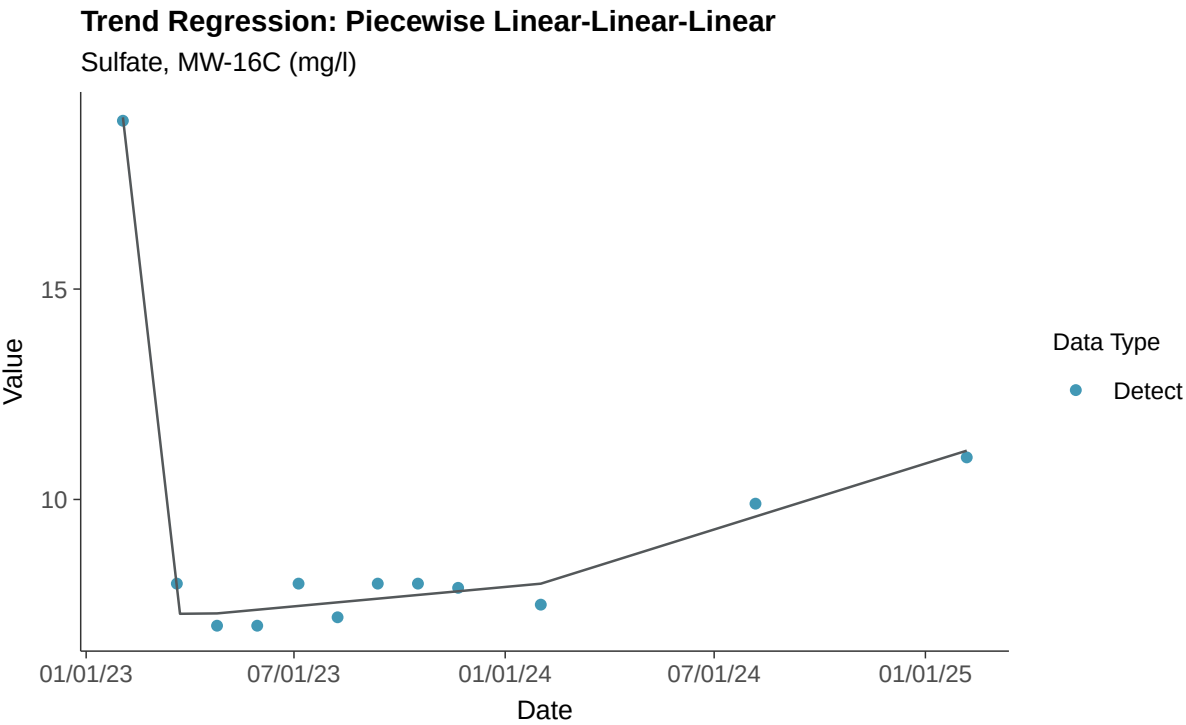
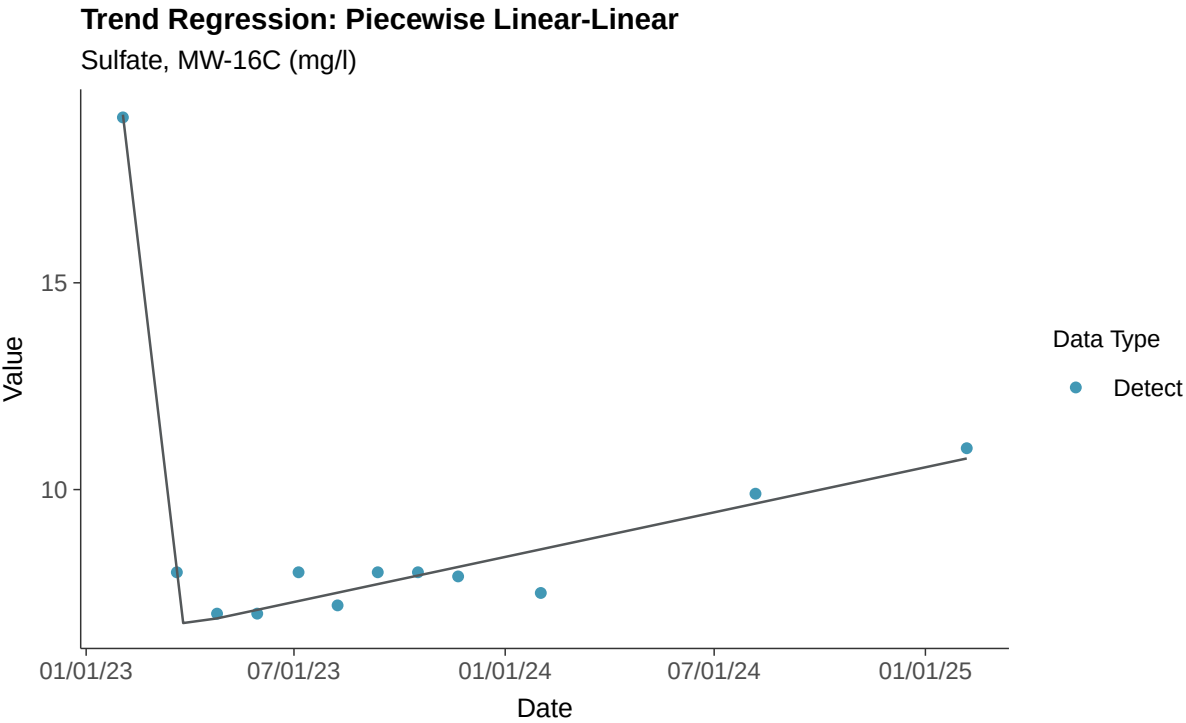
Appendix III: Sulfate, MW-16C

ID: 12_2_124





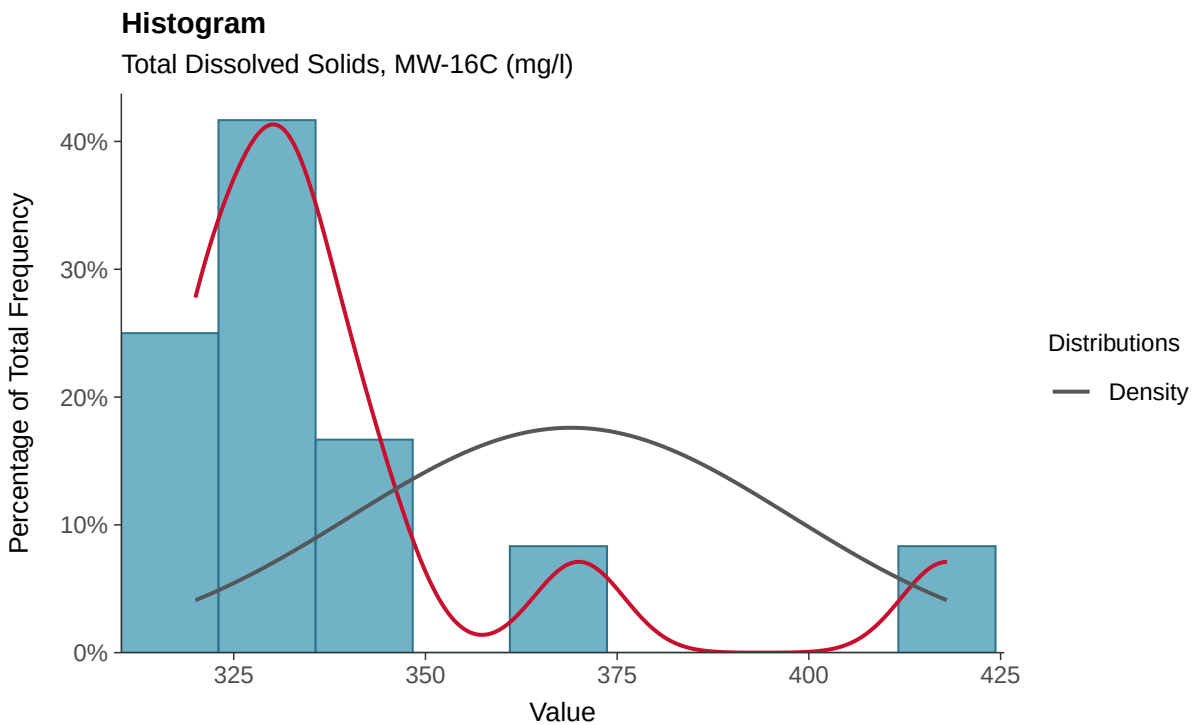
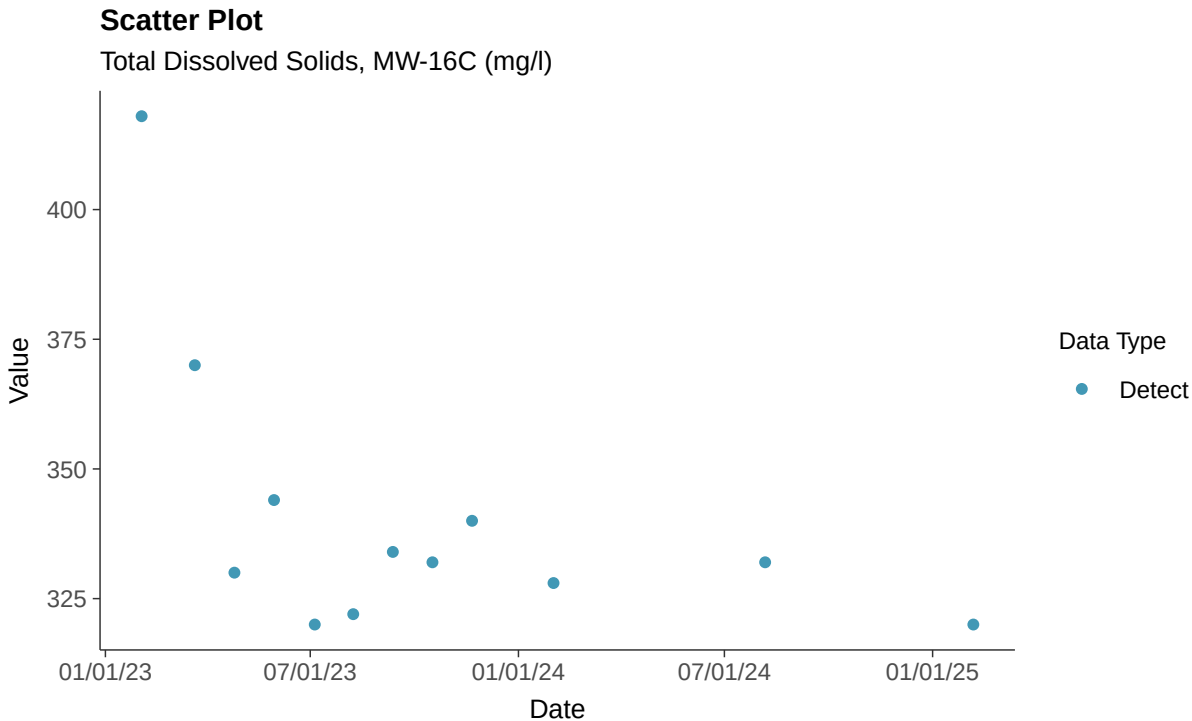


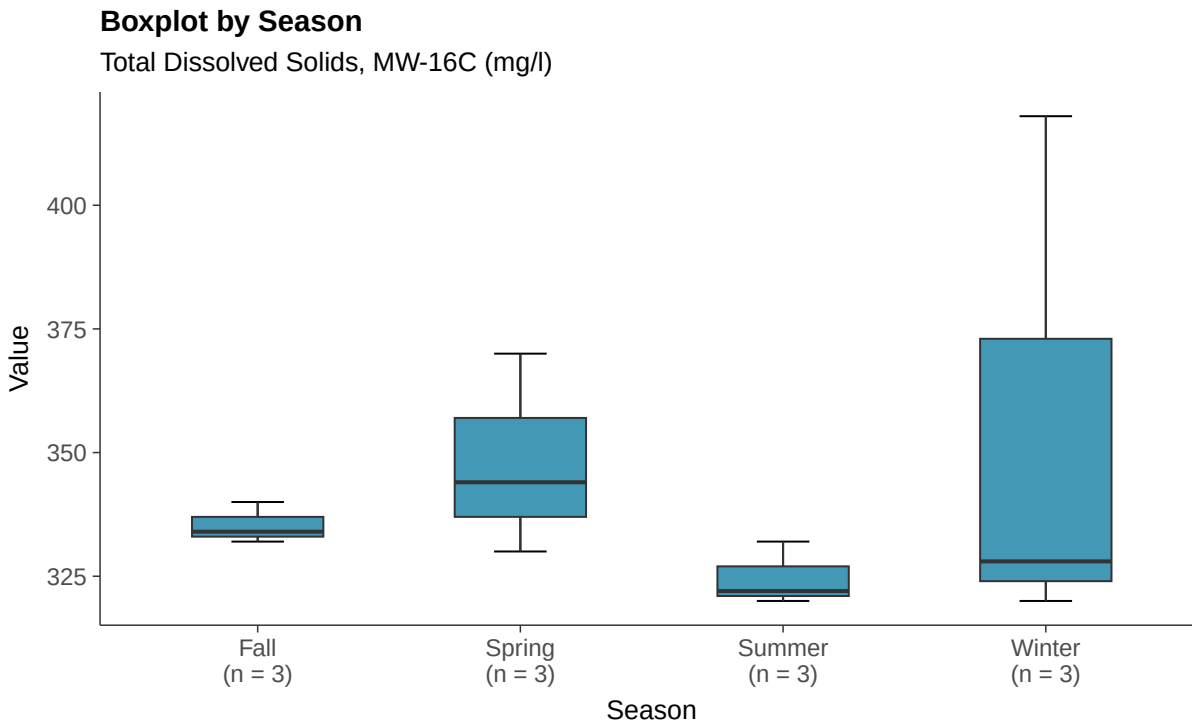
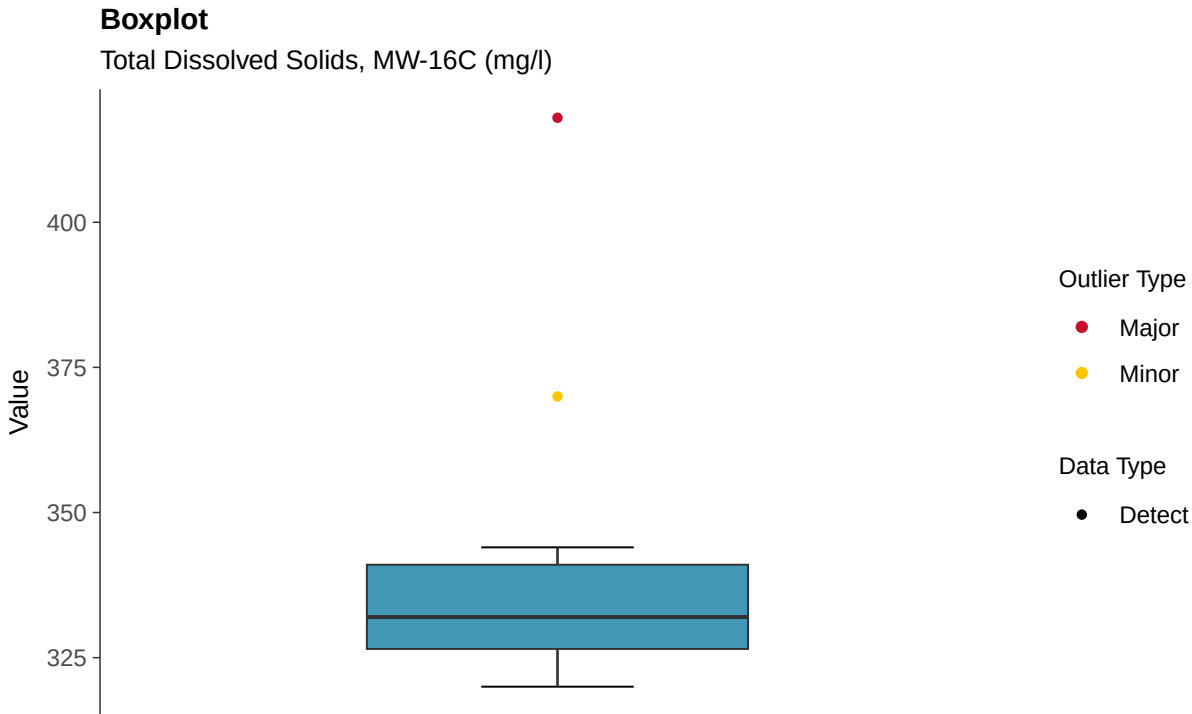


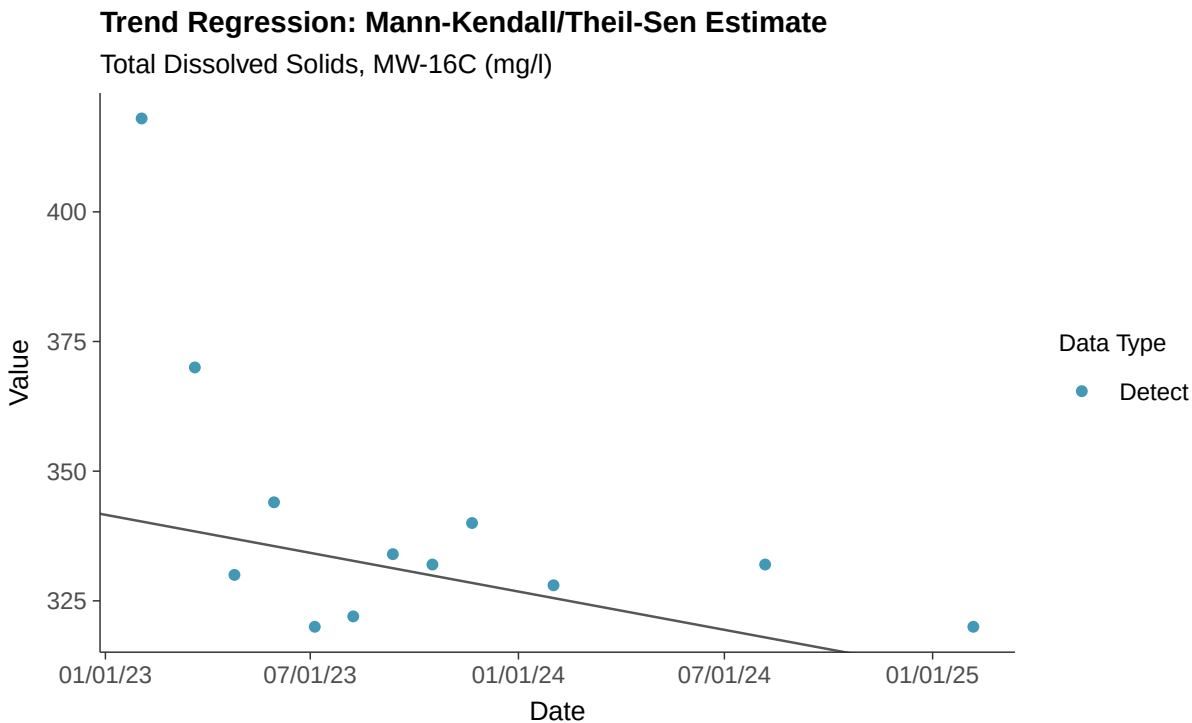
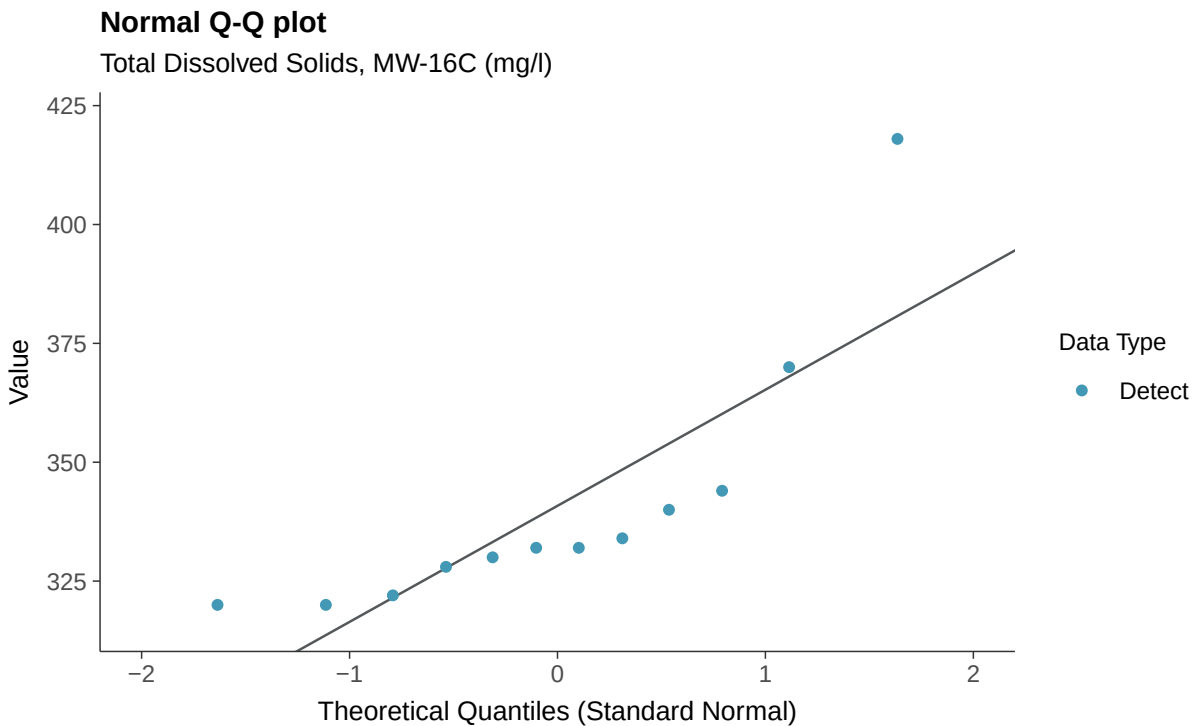


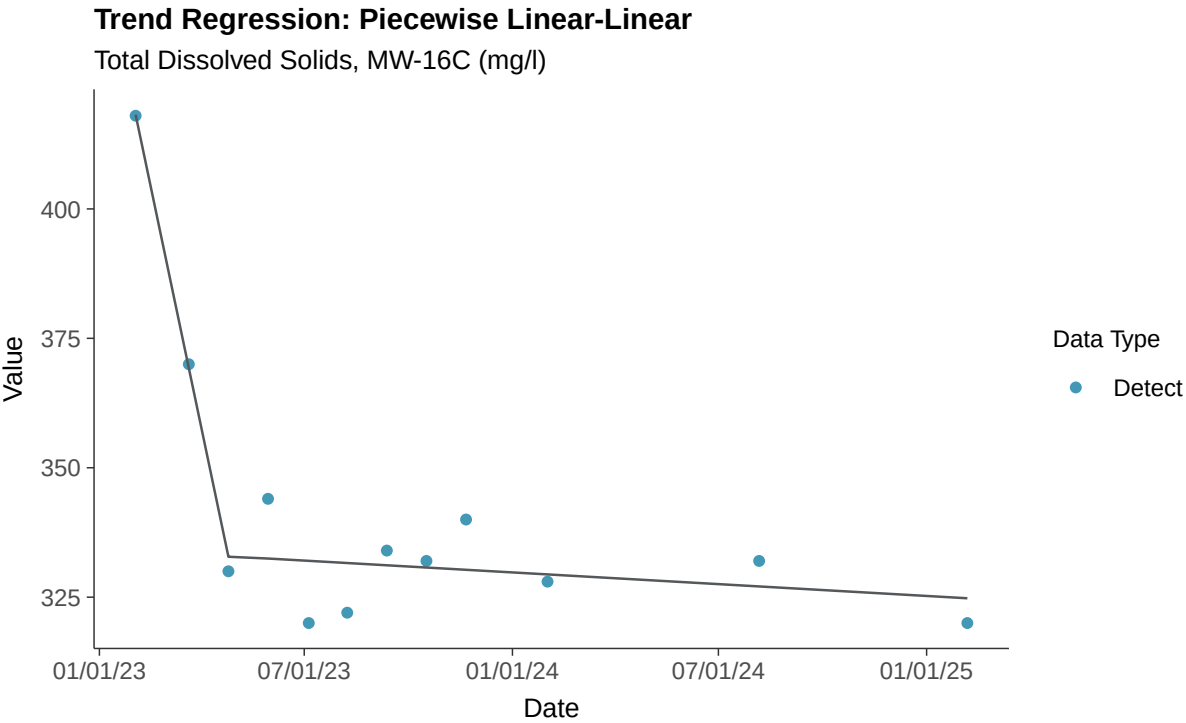
Appendix III: Total Dissolved Solids, MW-16C

ID: 12_2_126





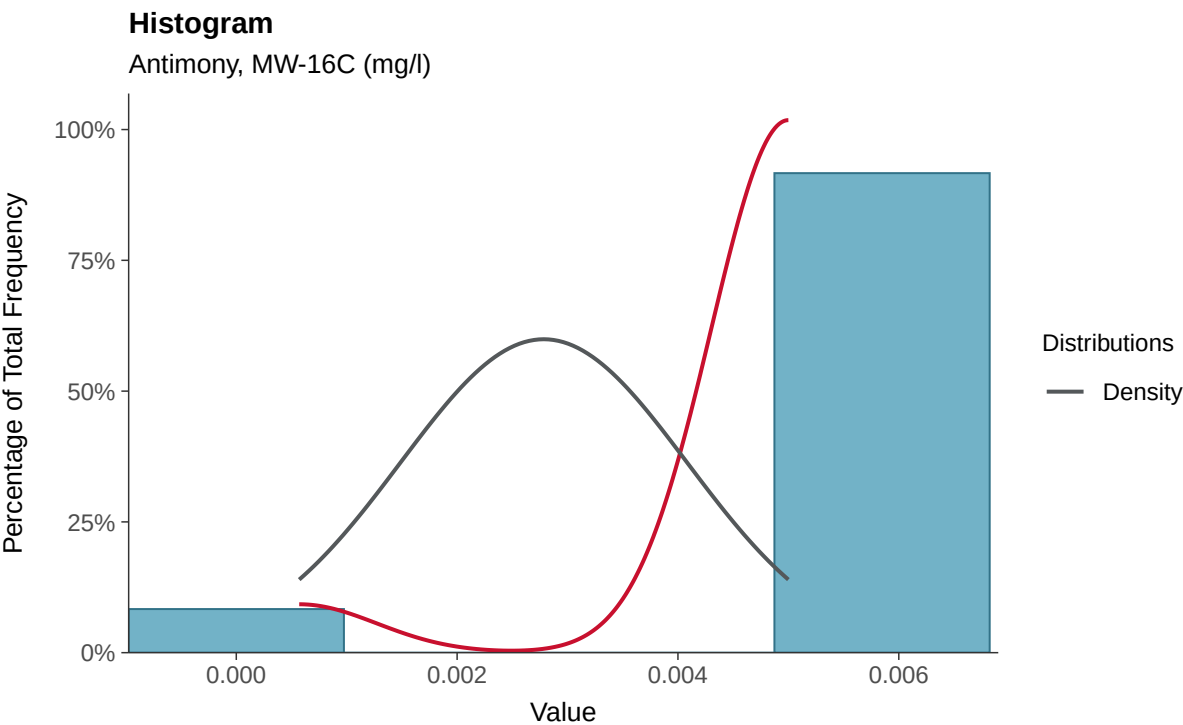
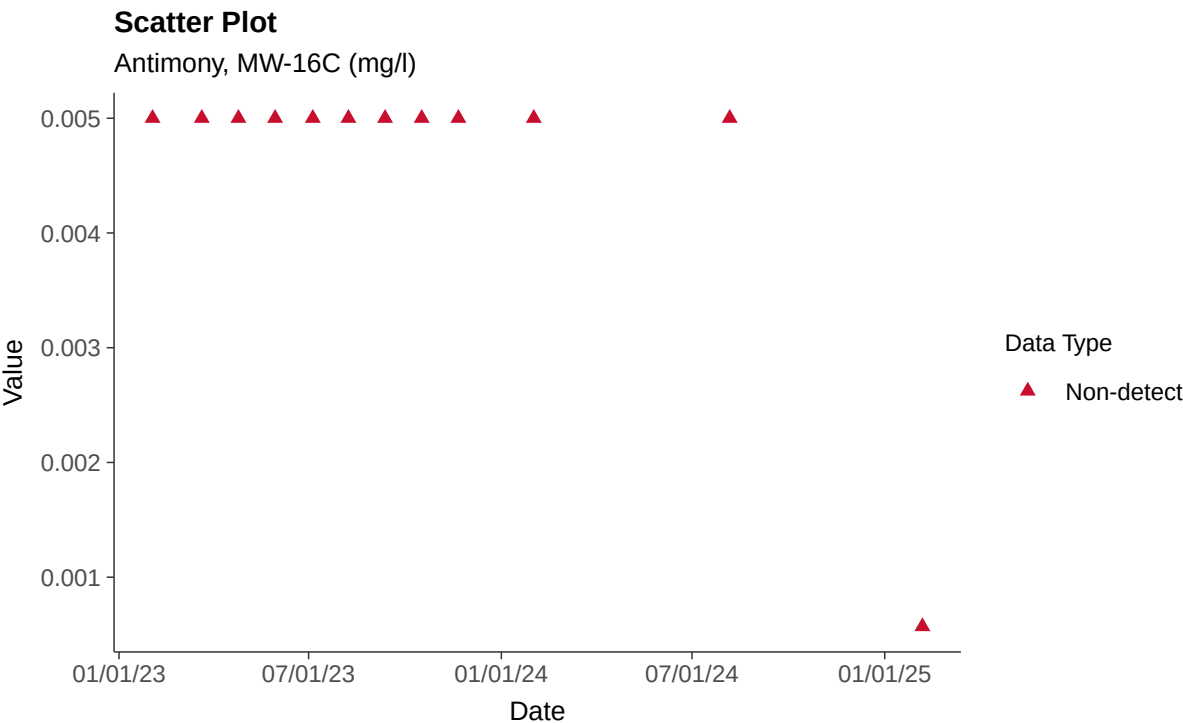


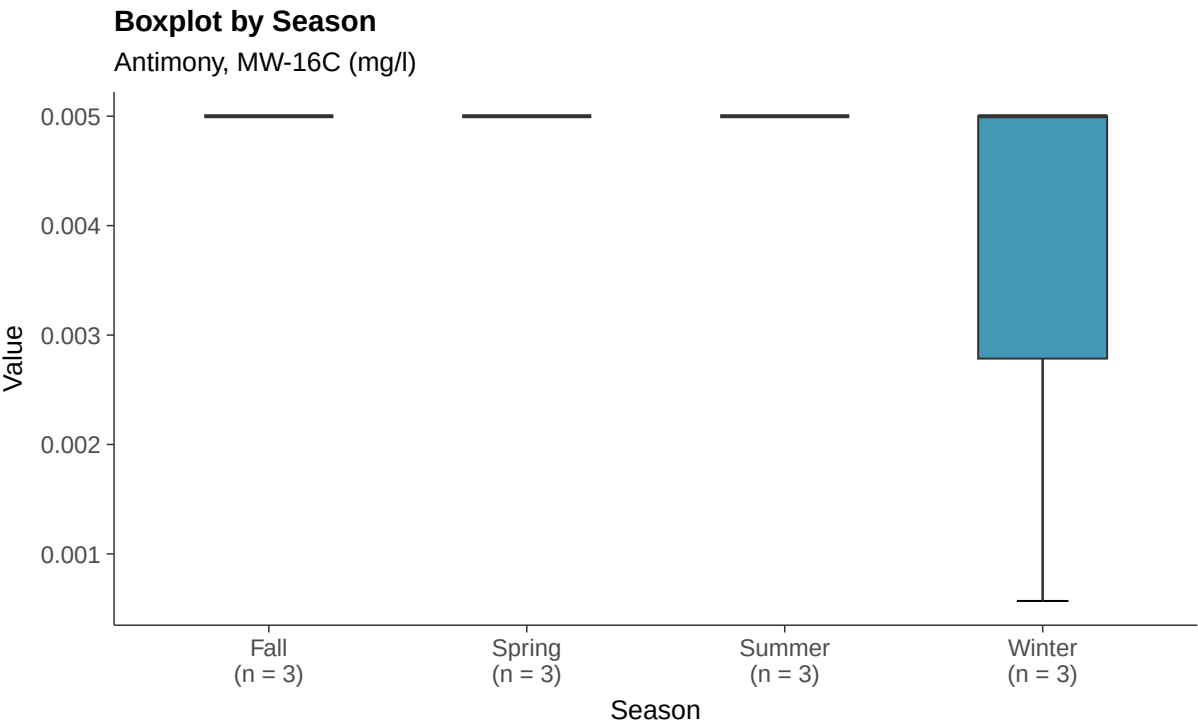
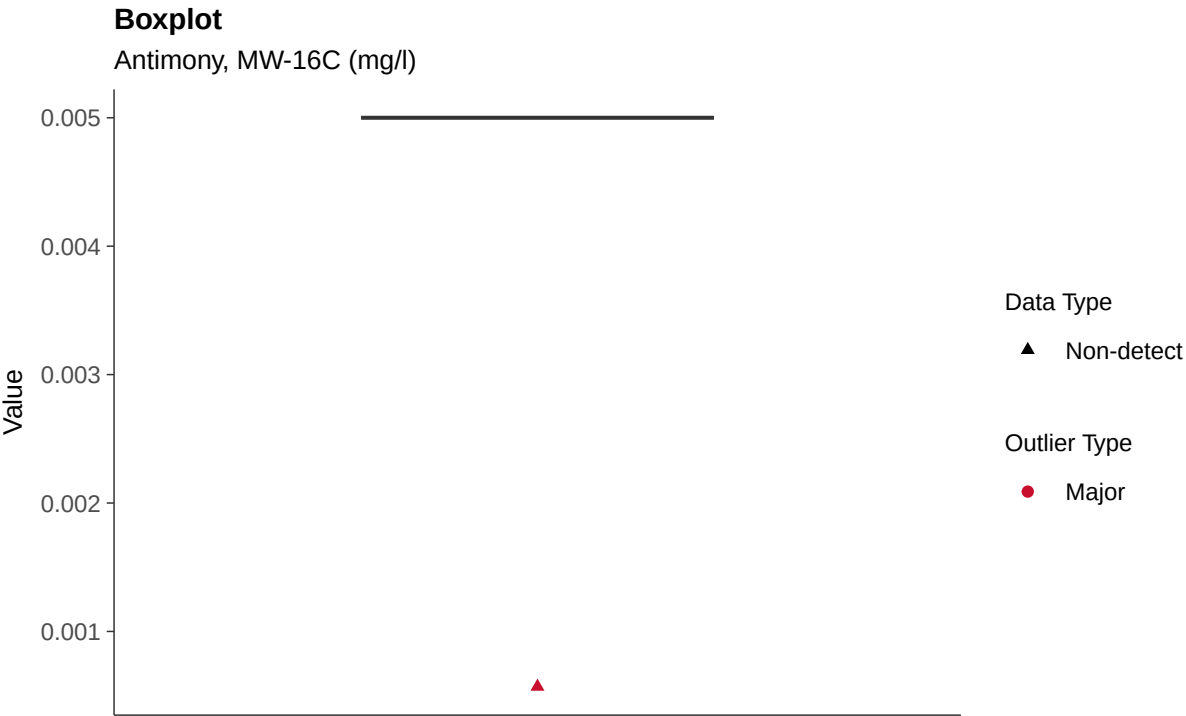




Appendix IV: Antimony, MW-16C

ID: 12_3_101

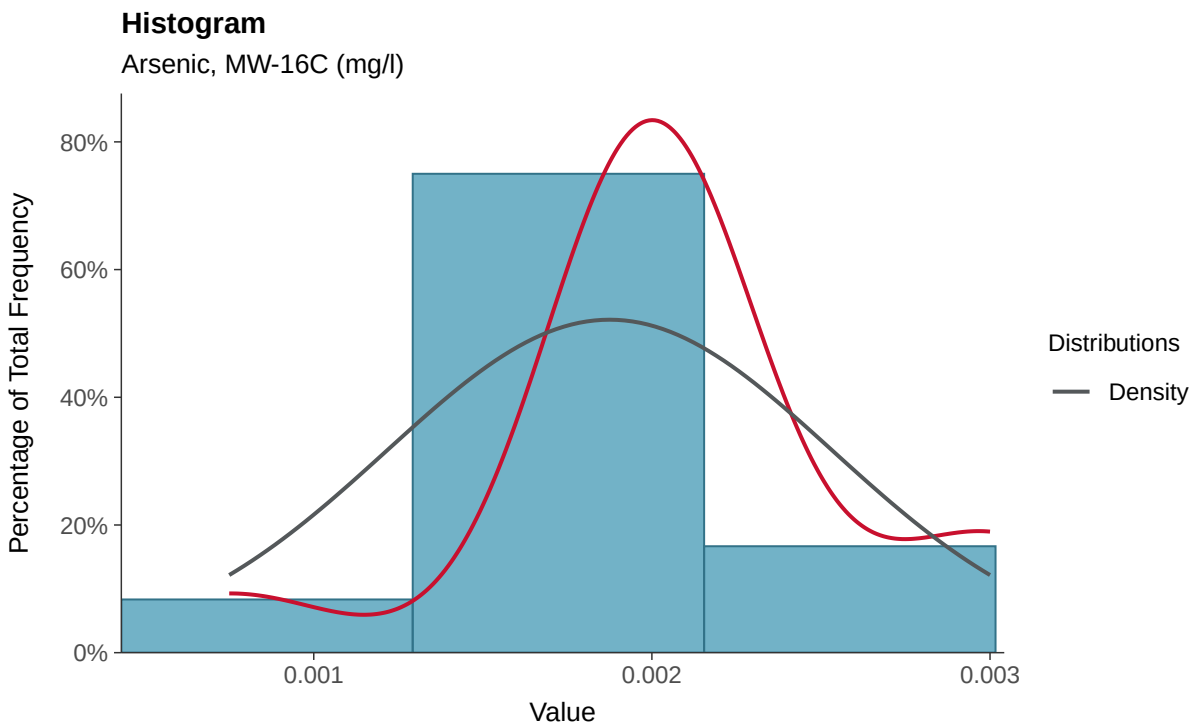
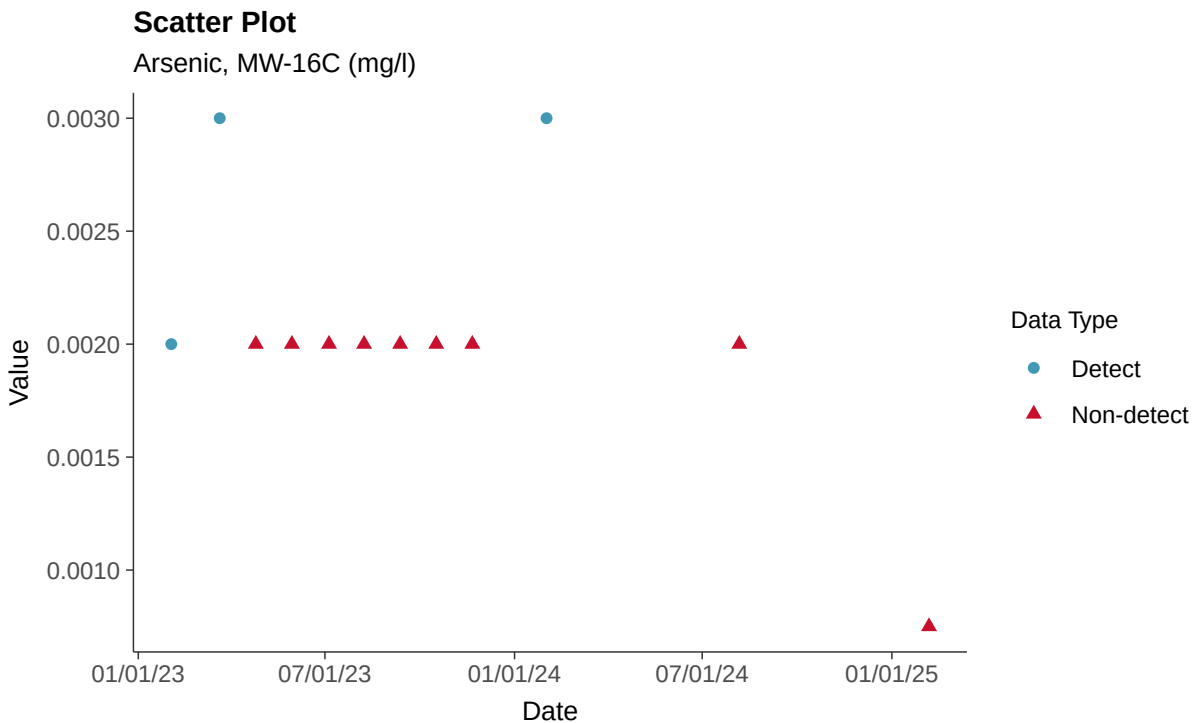


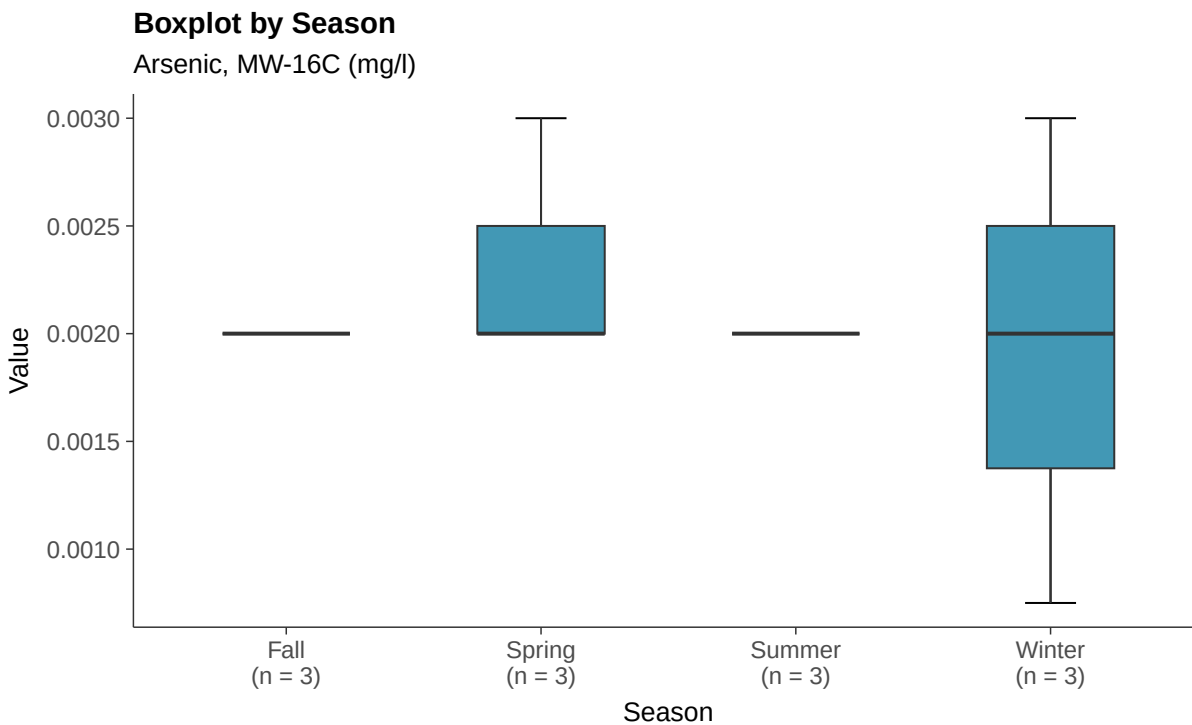
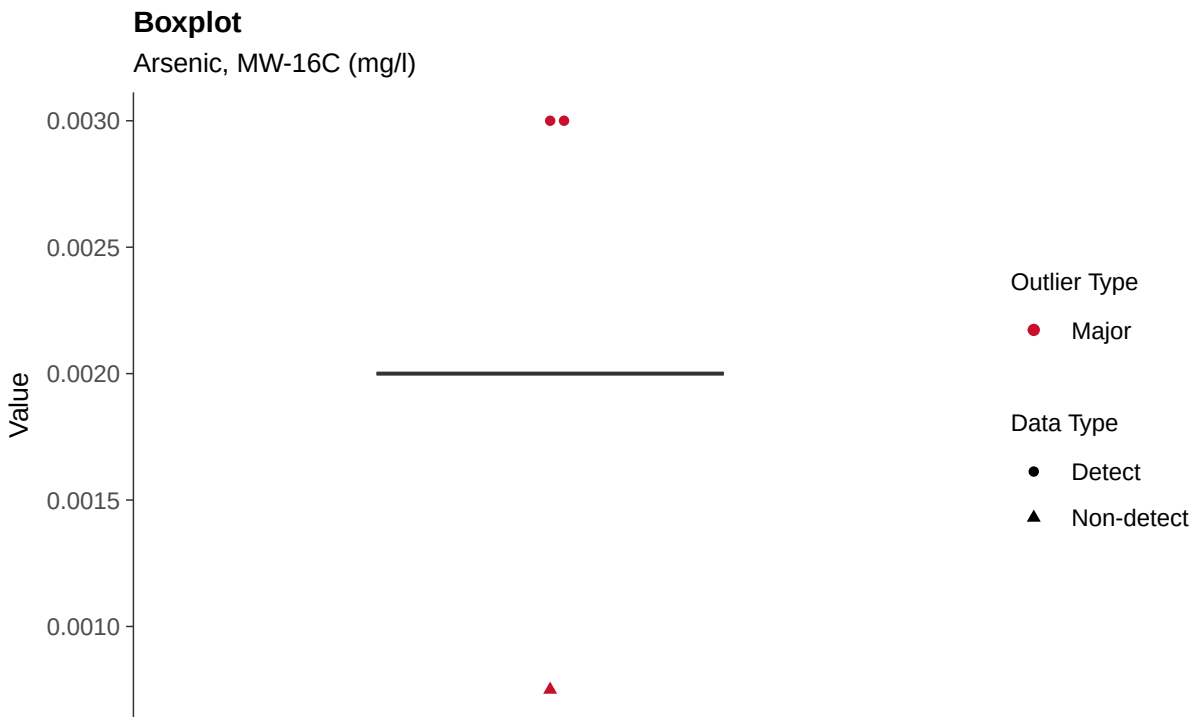


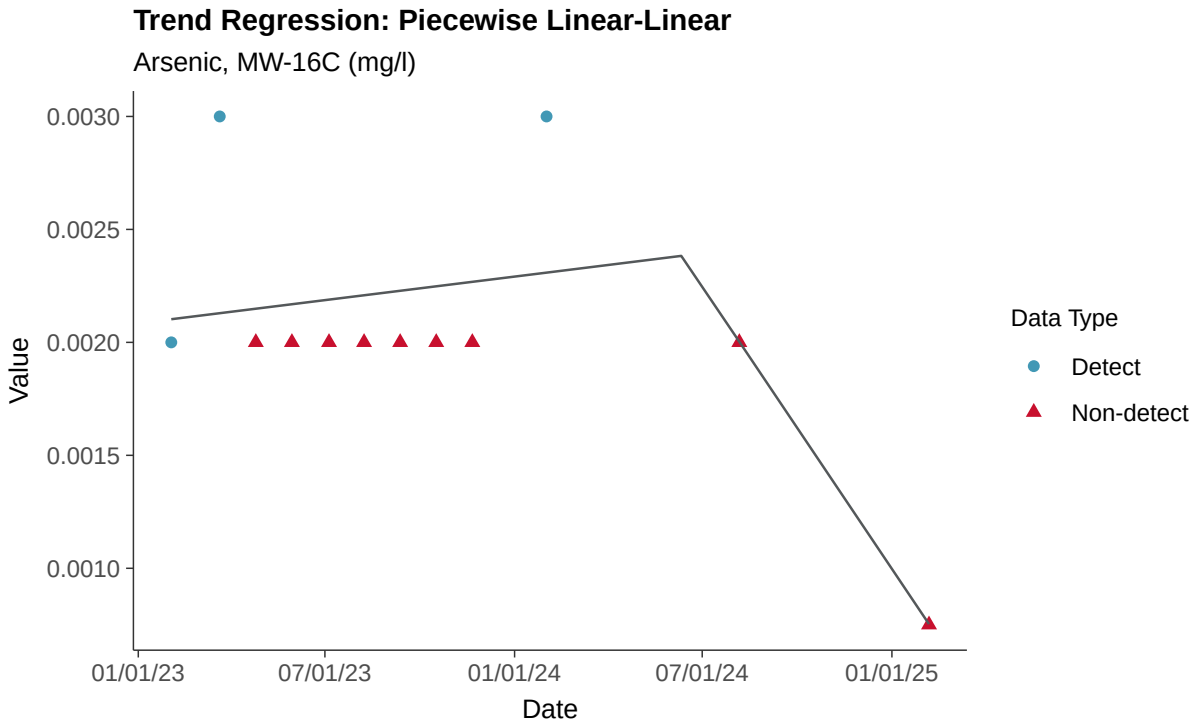
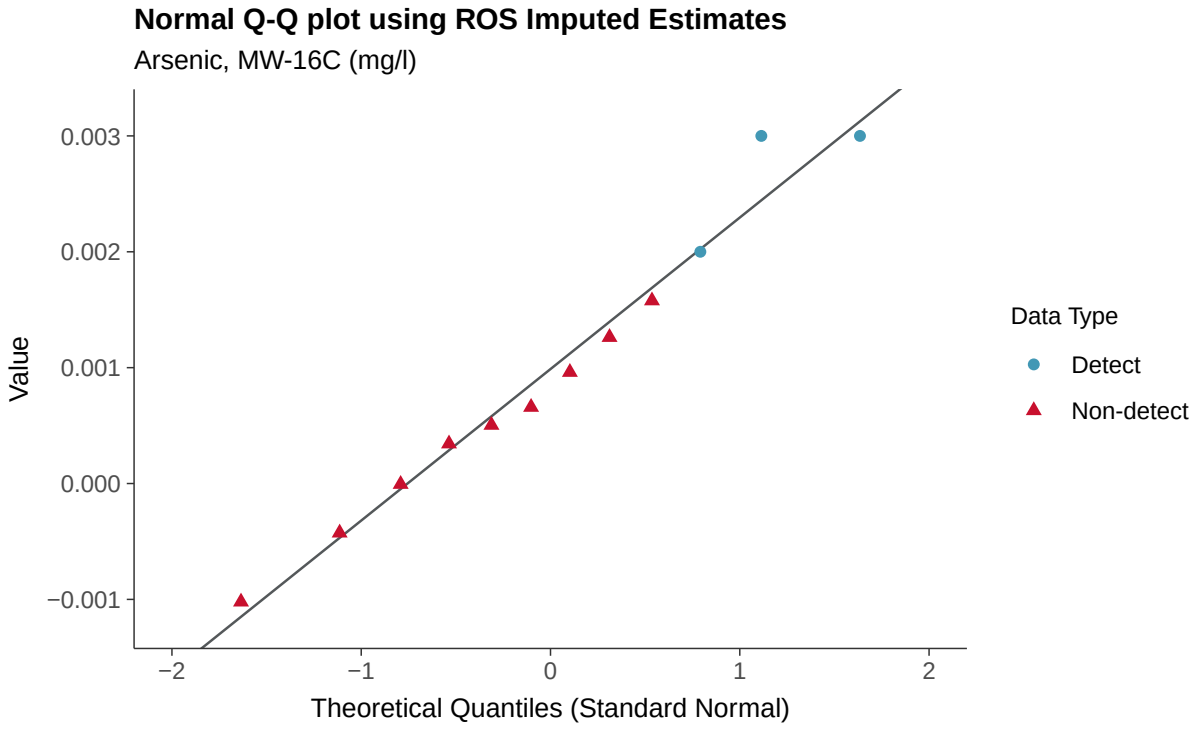


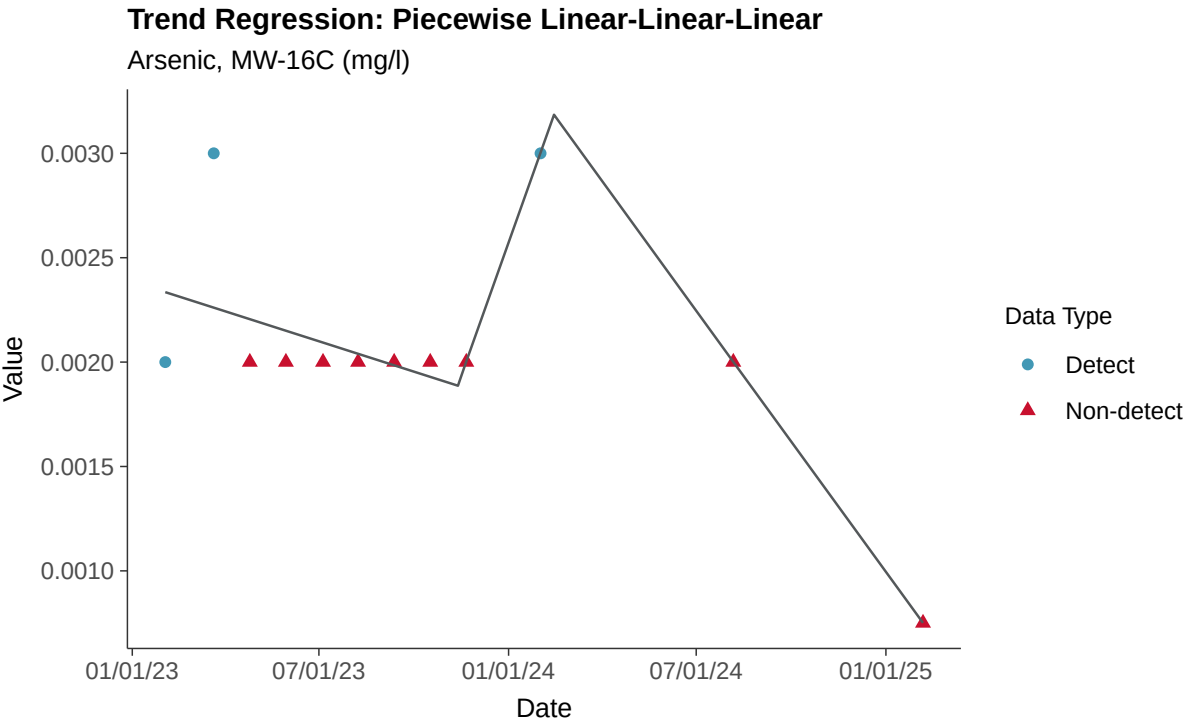
Appendix IV: Arsenic, MW-16C

ID: 12_3_102





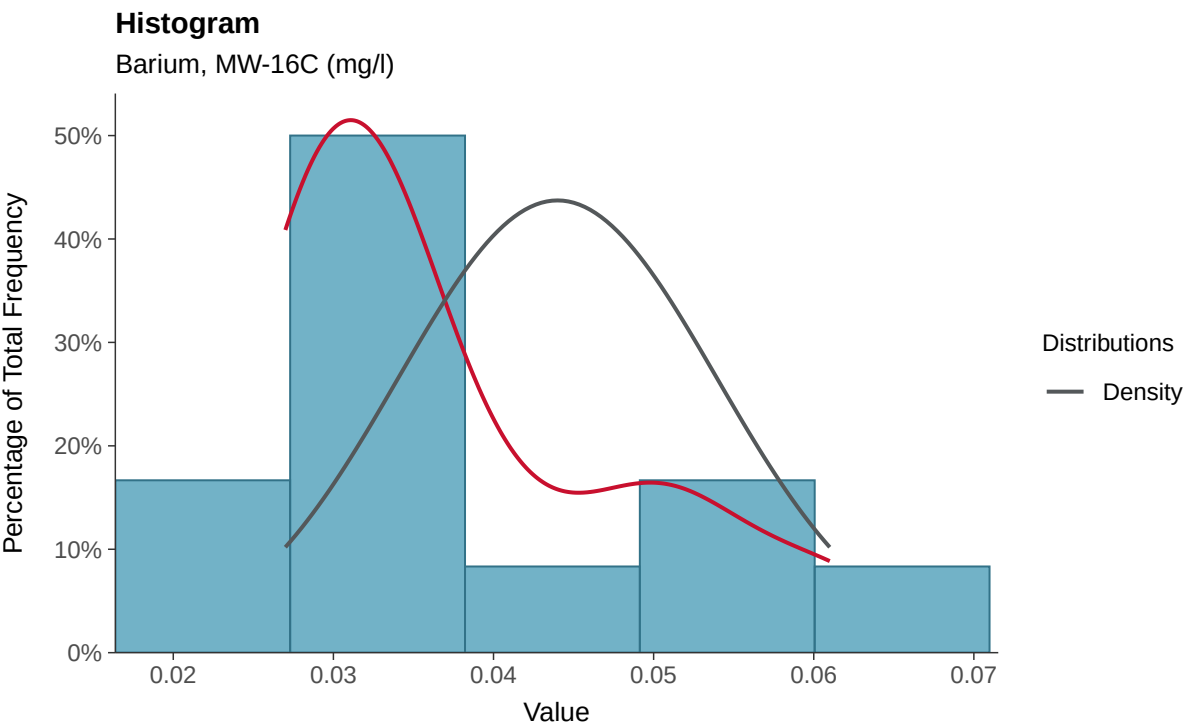
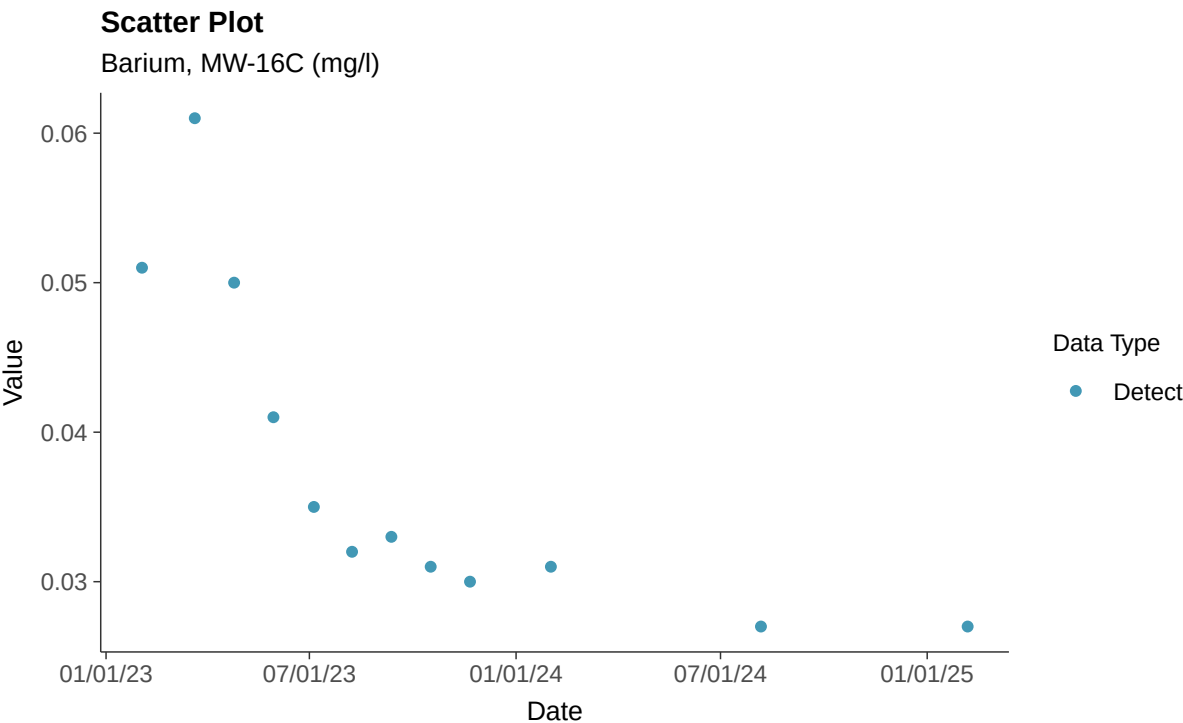


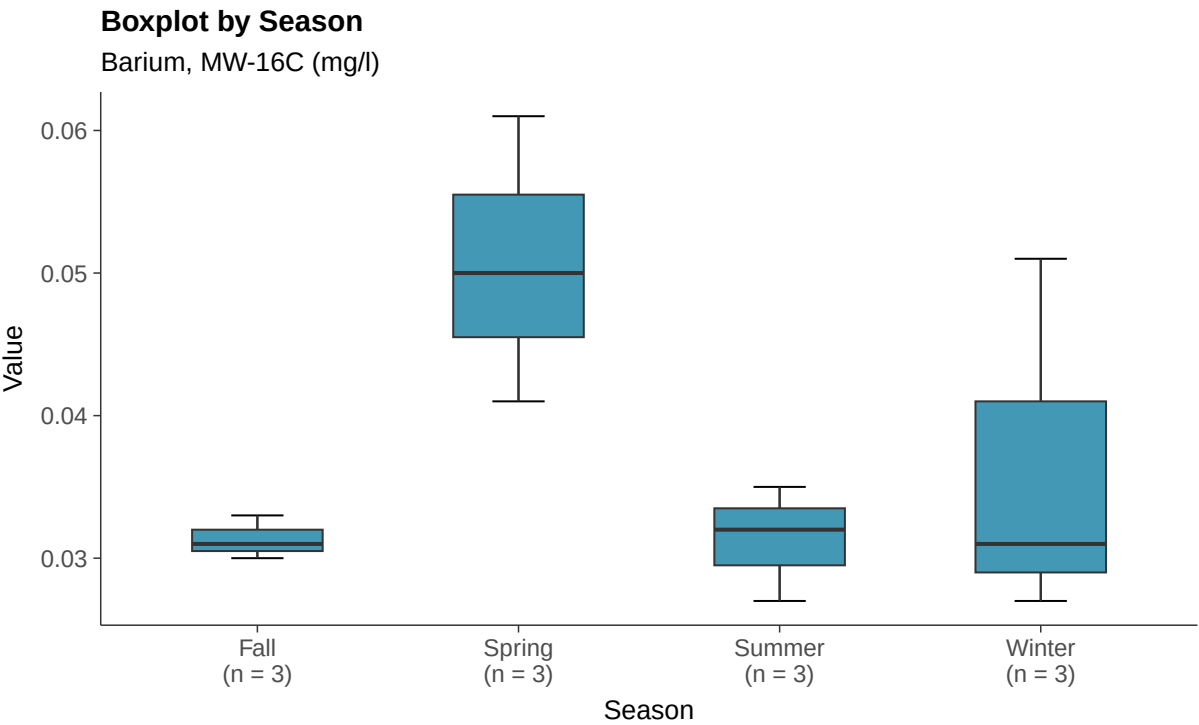
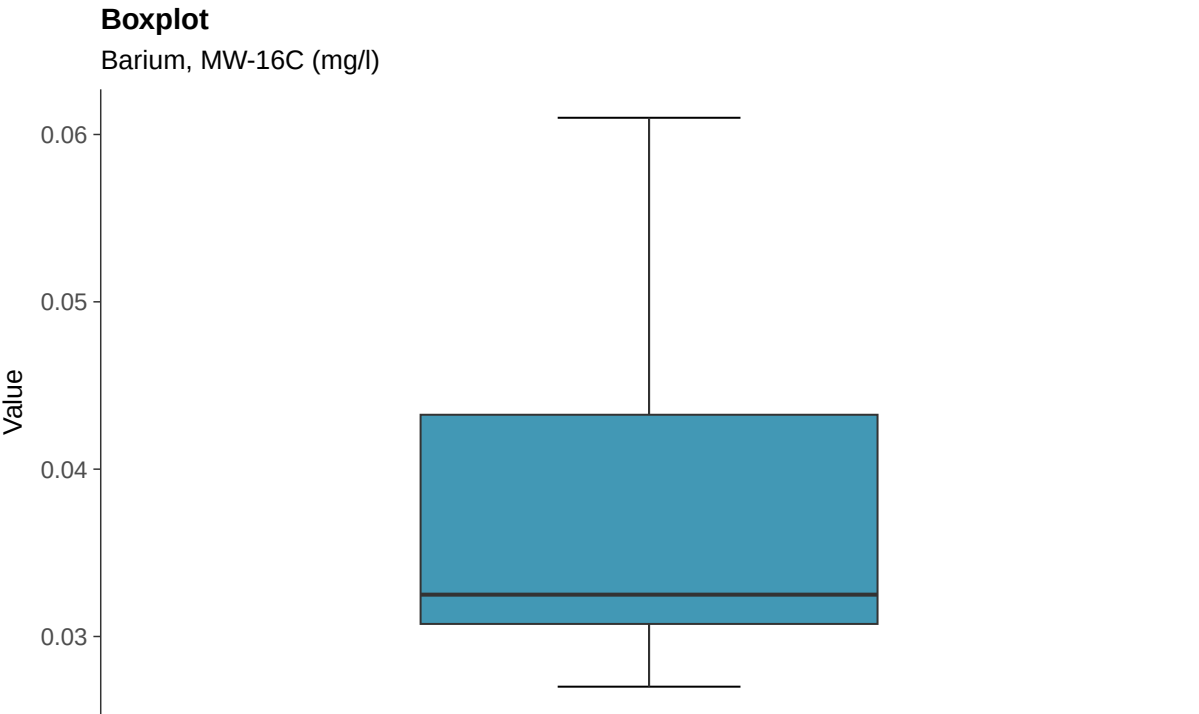


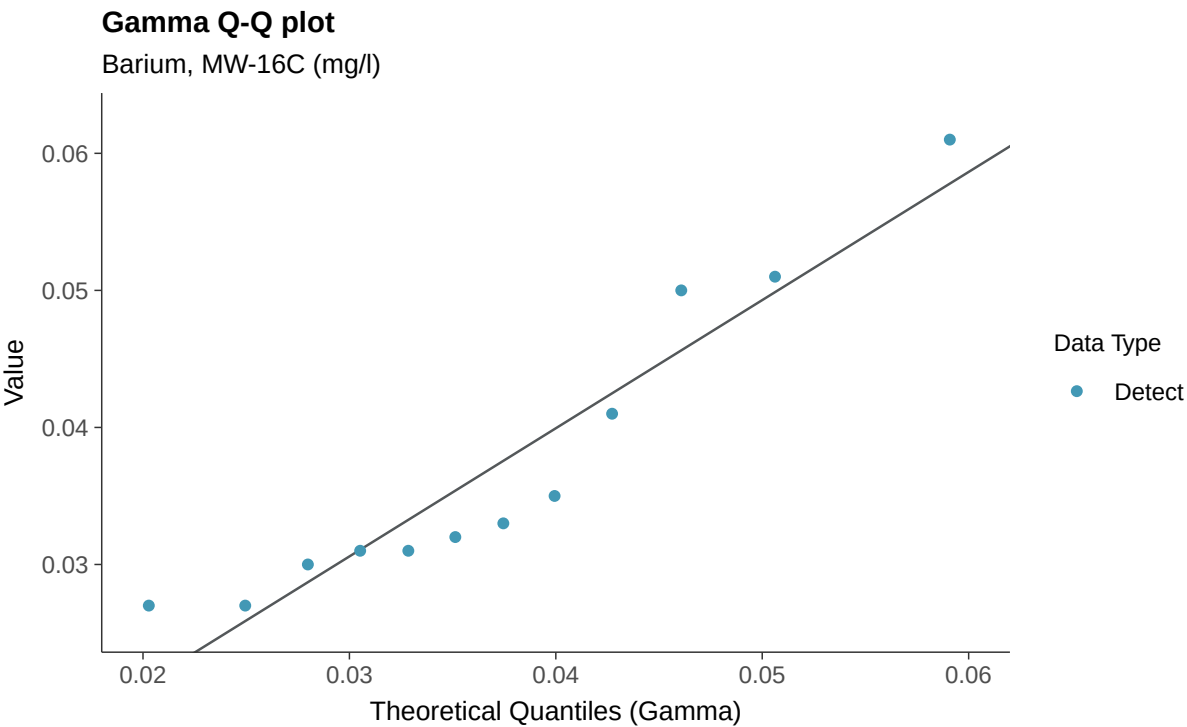
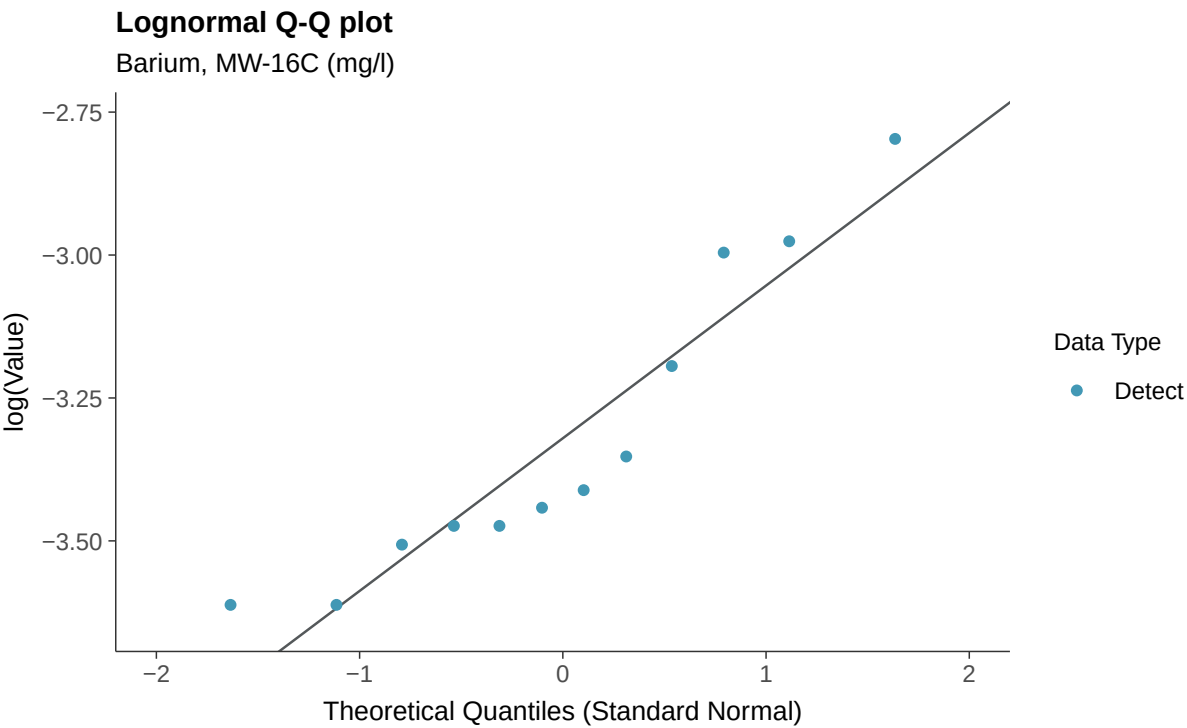


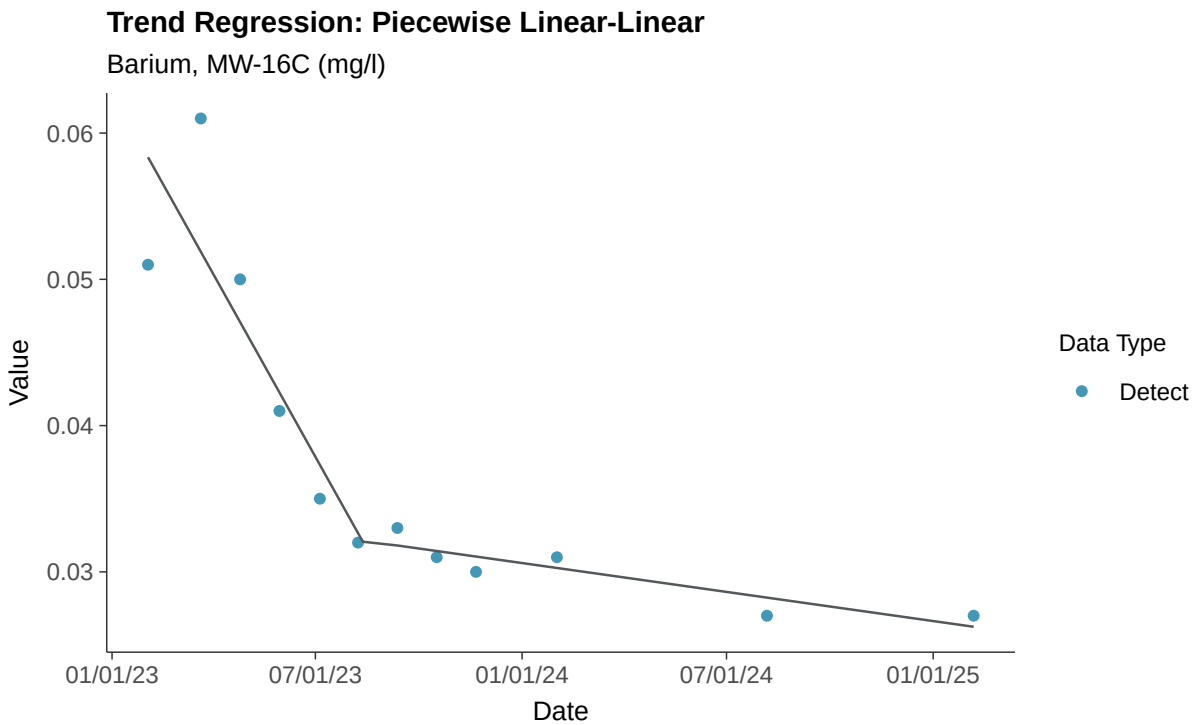
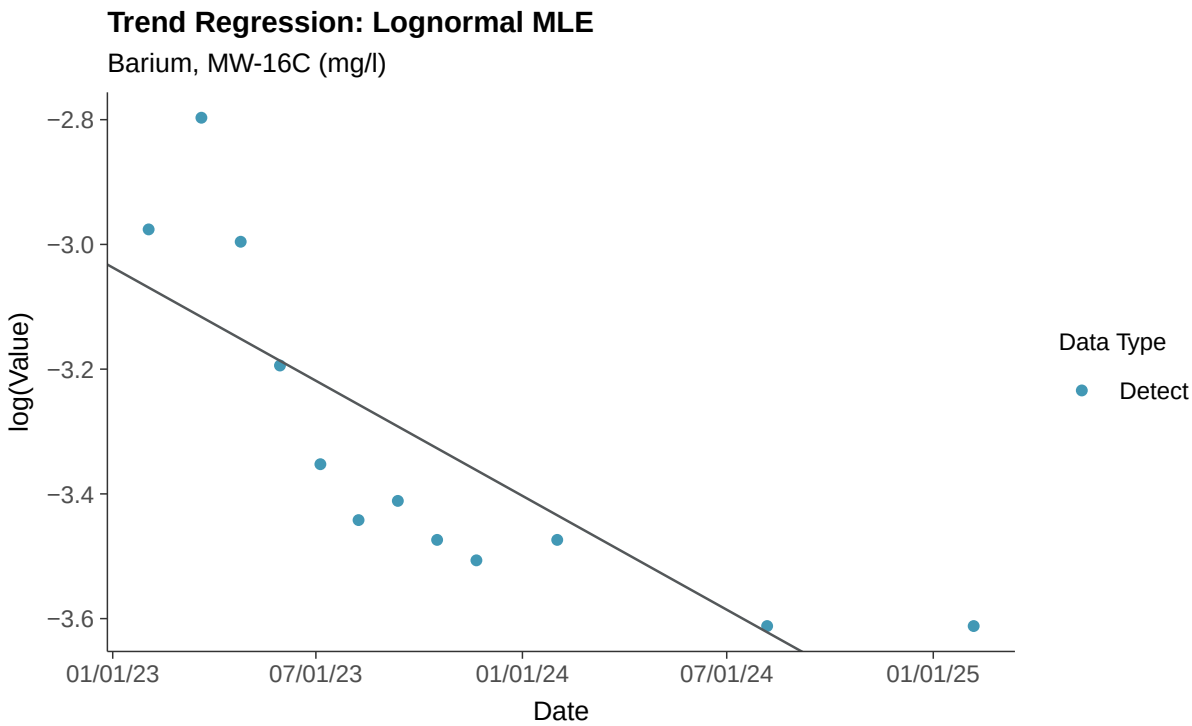
Appendix IV: Barium, MW-16C

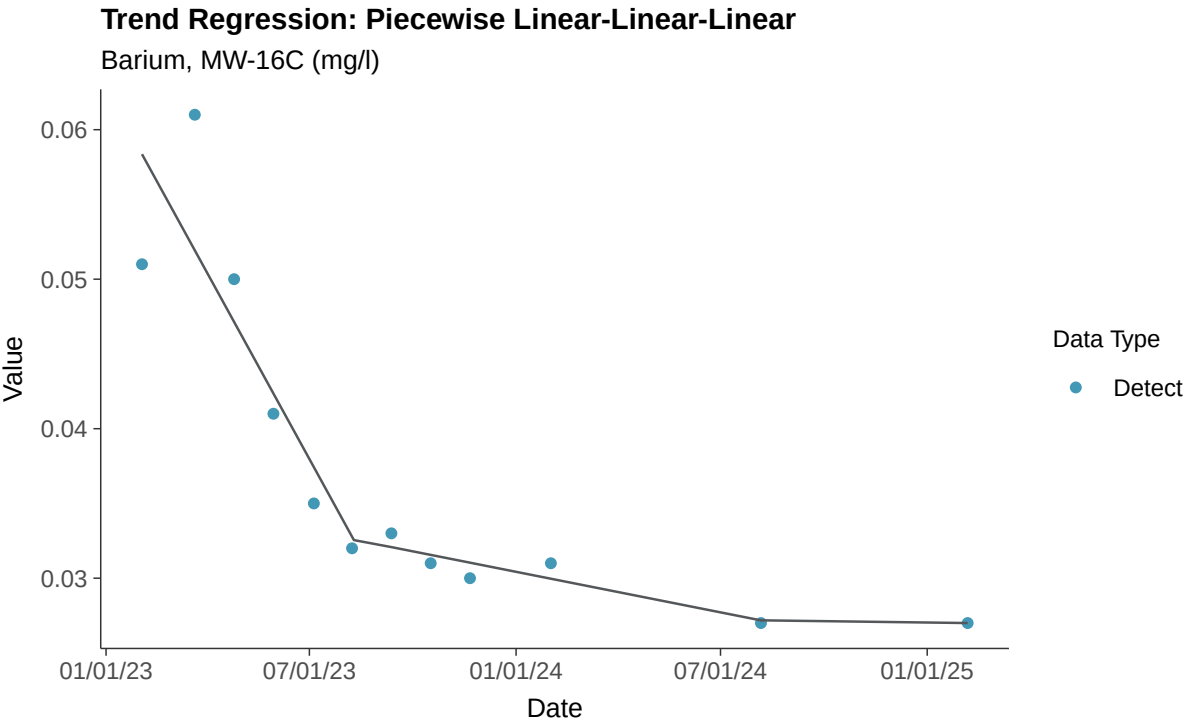
ID: 12_3_103







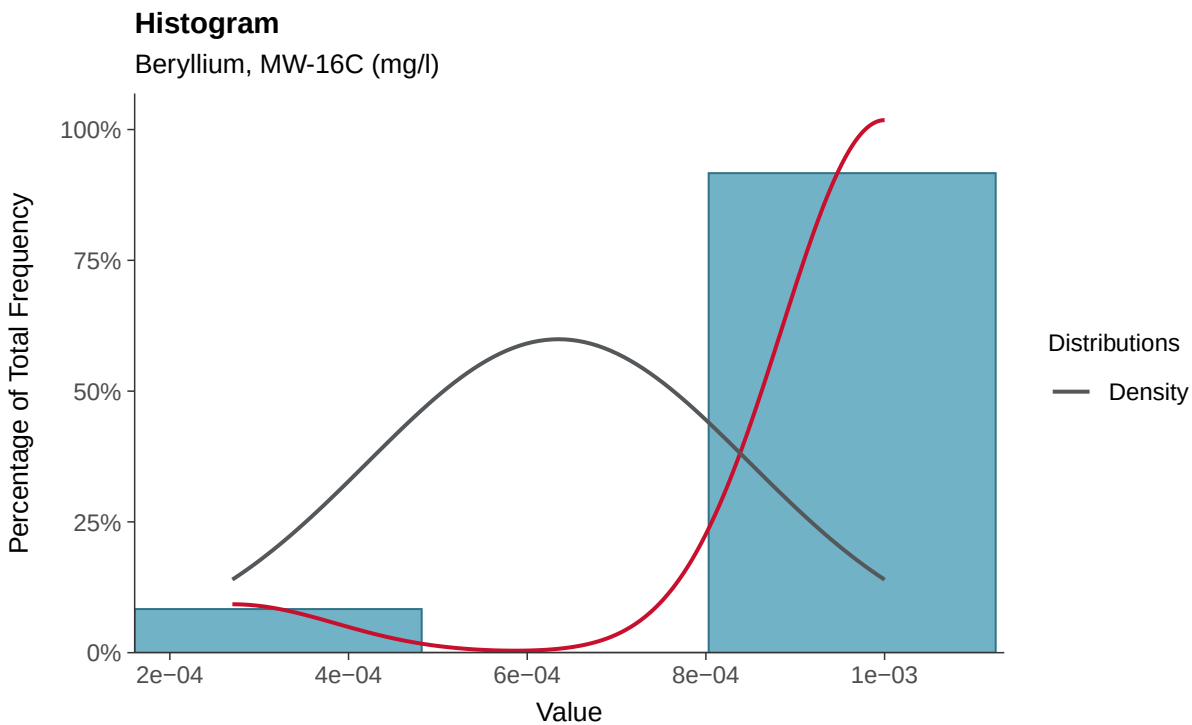
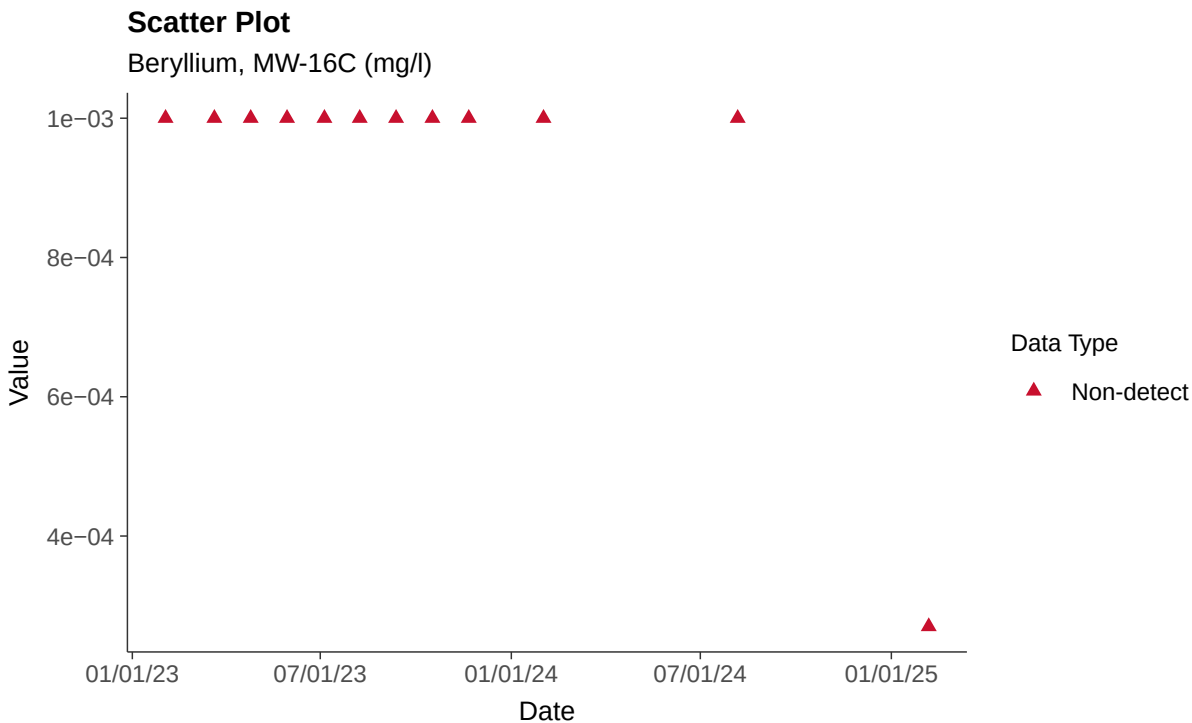


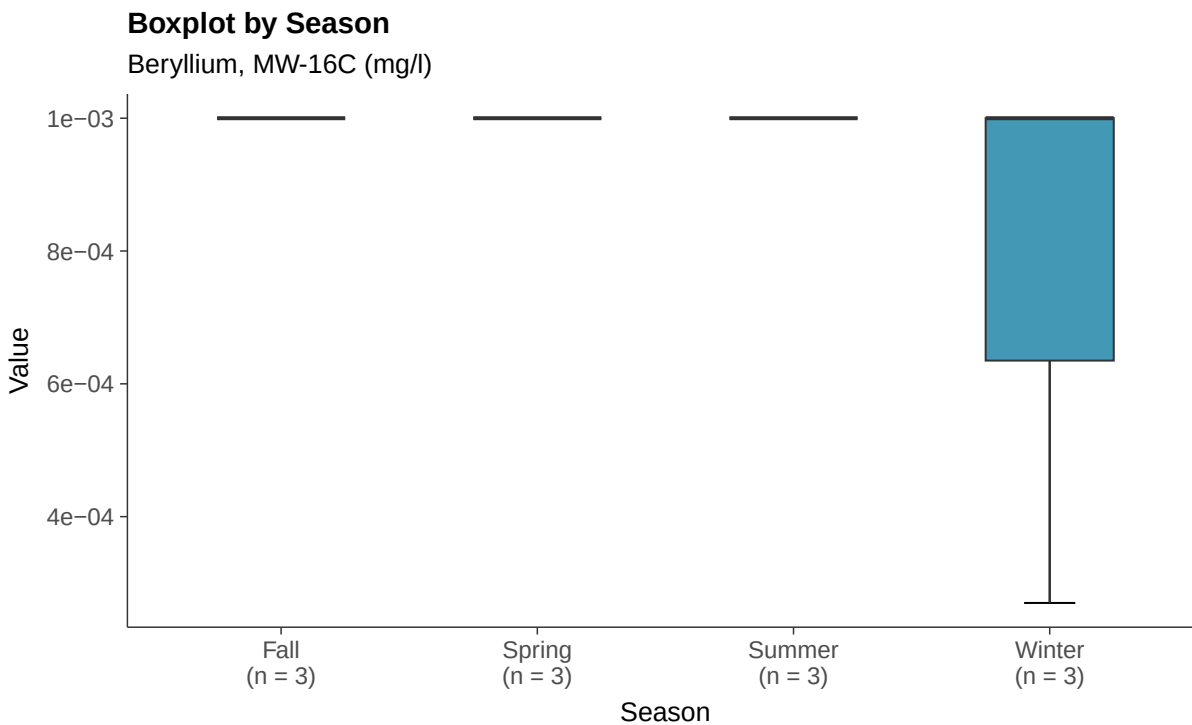
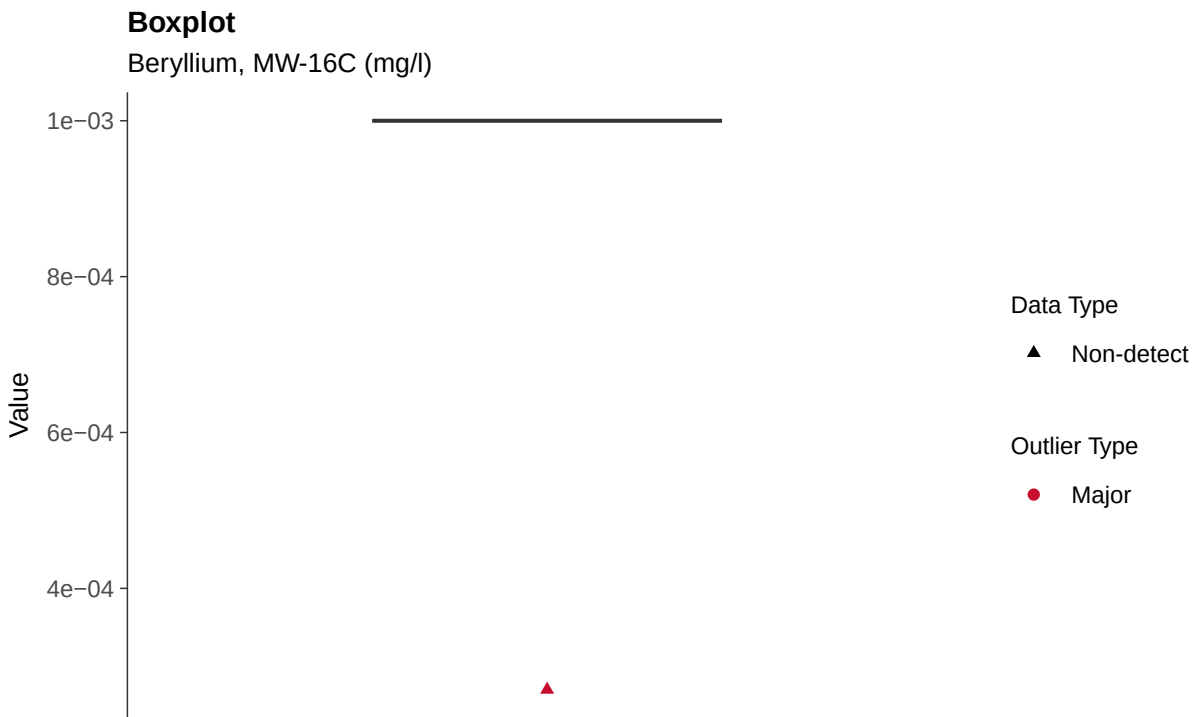




Appendix IV: Beryllium, MW-16C

ID: 12_3_104

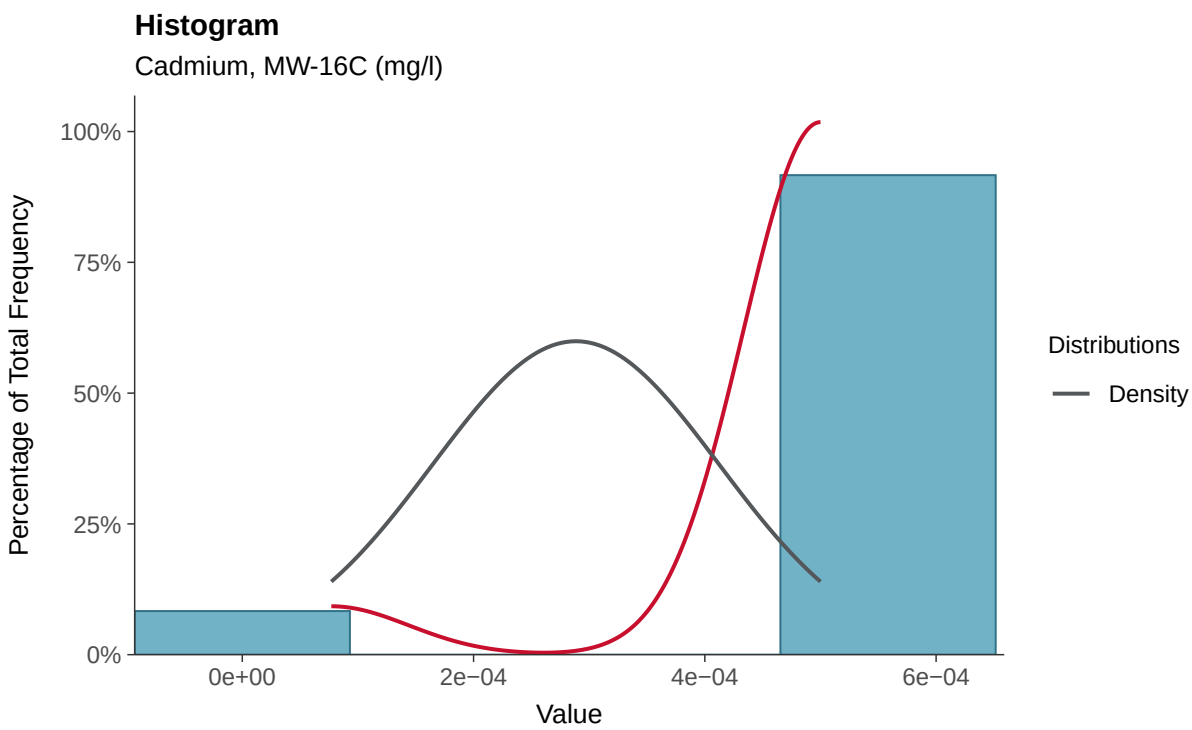
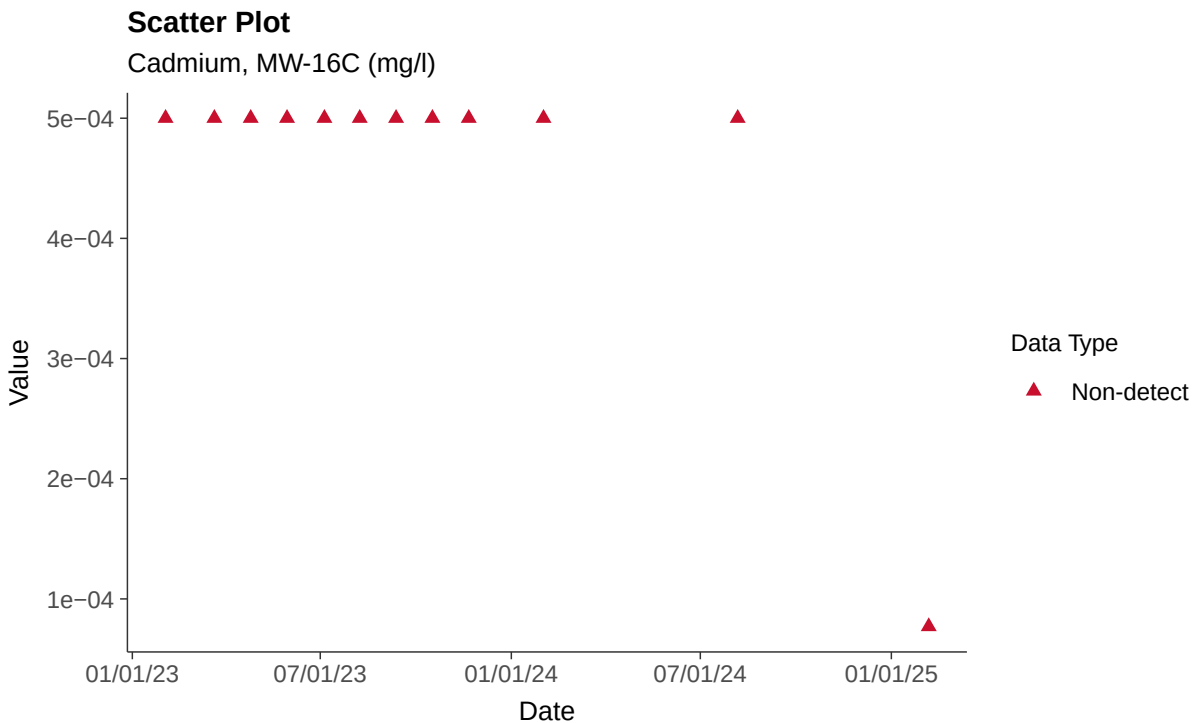


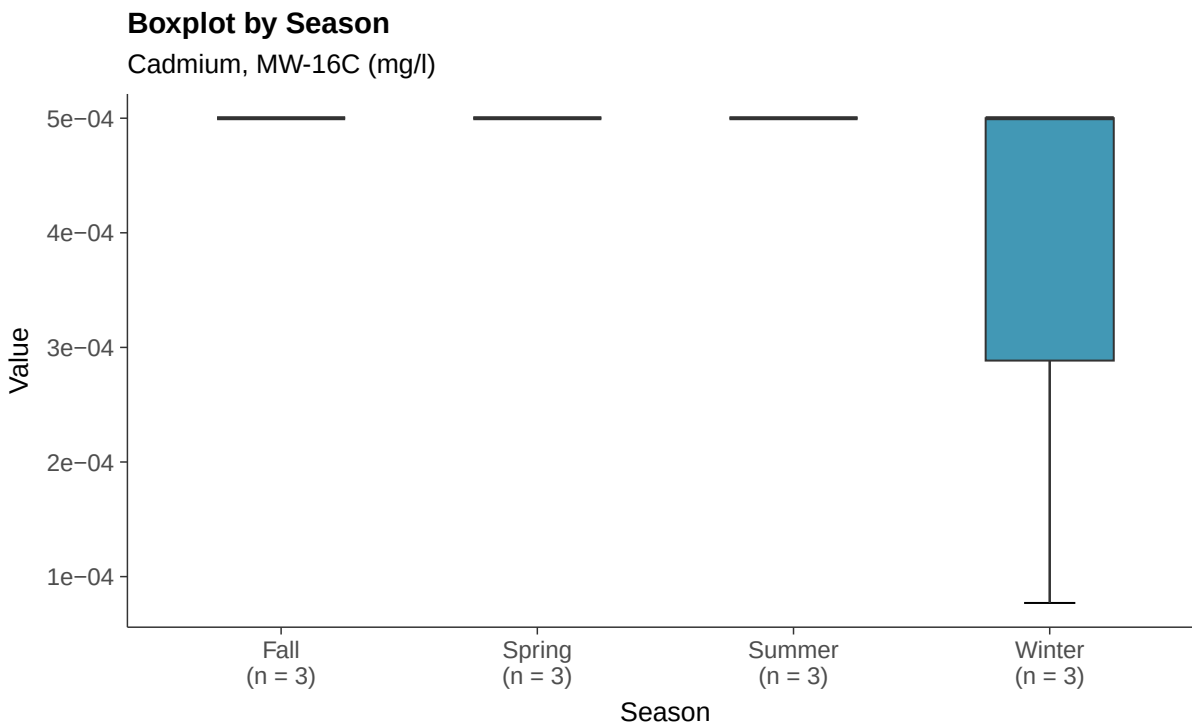
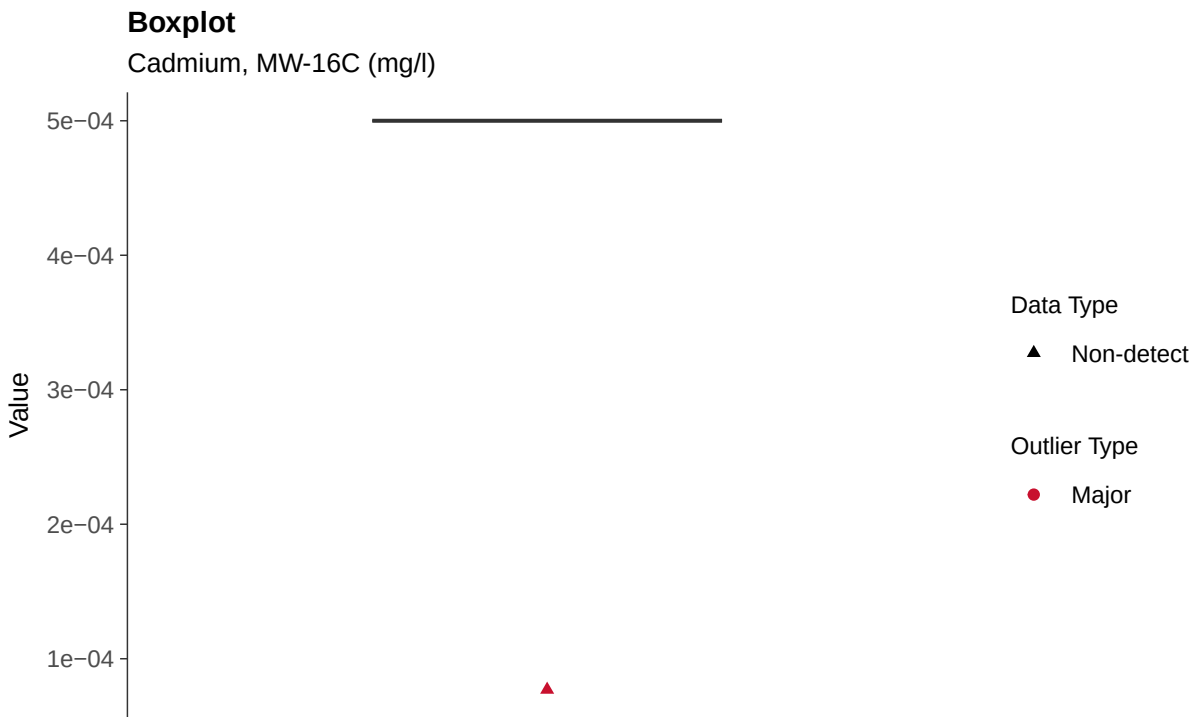




Appendix IV: Cadmium, MW-16C

ID: 12_3_106

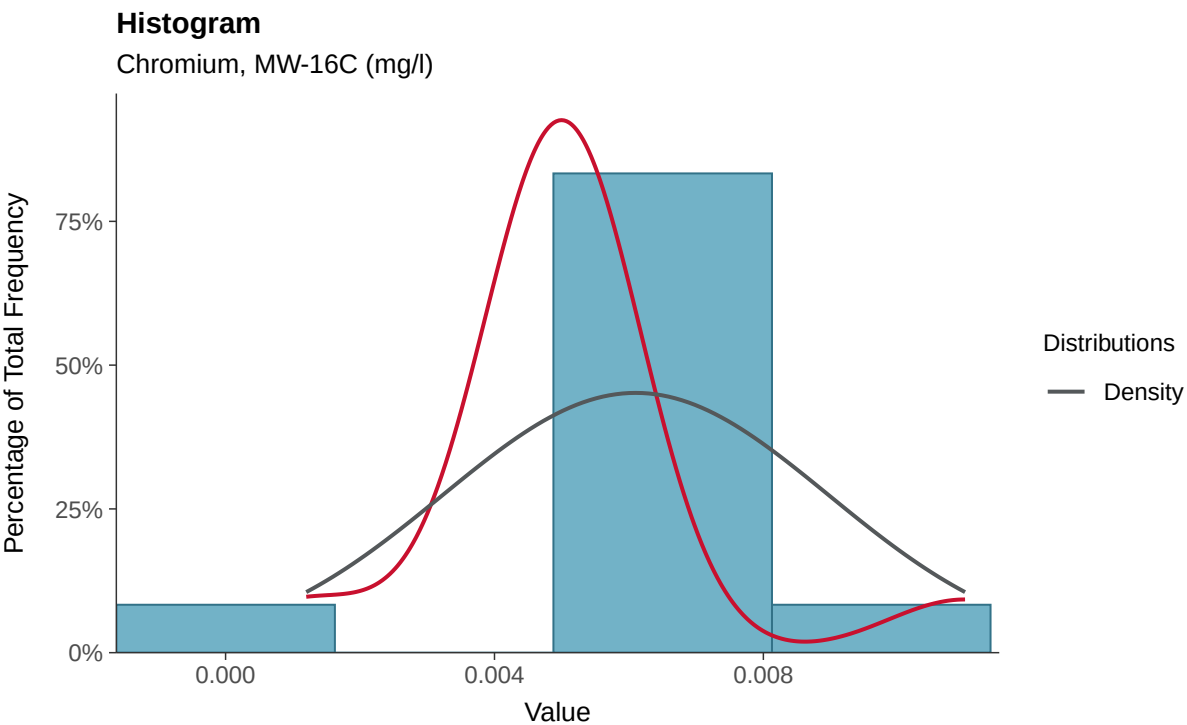
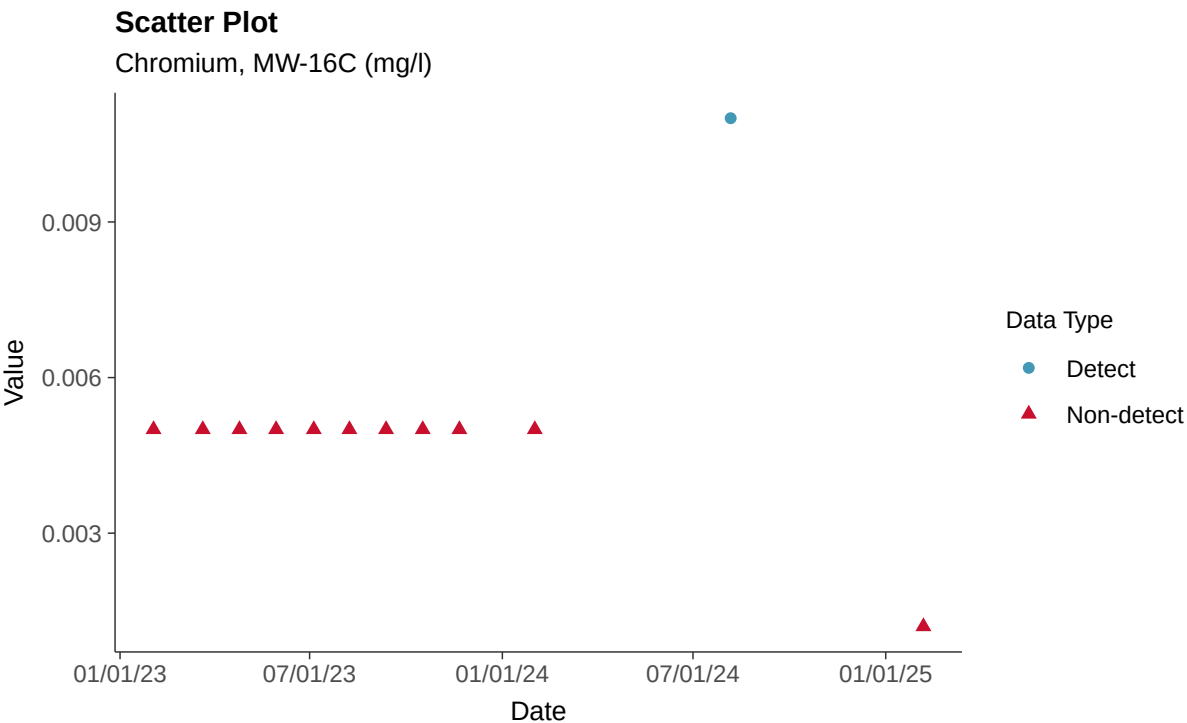


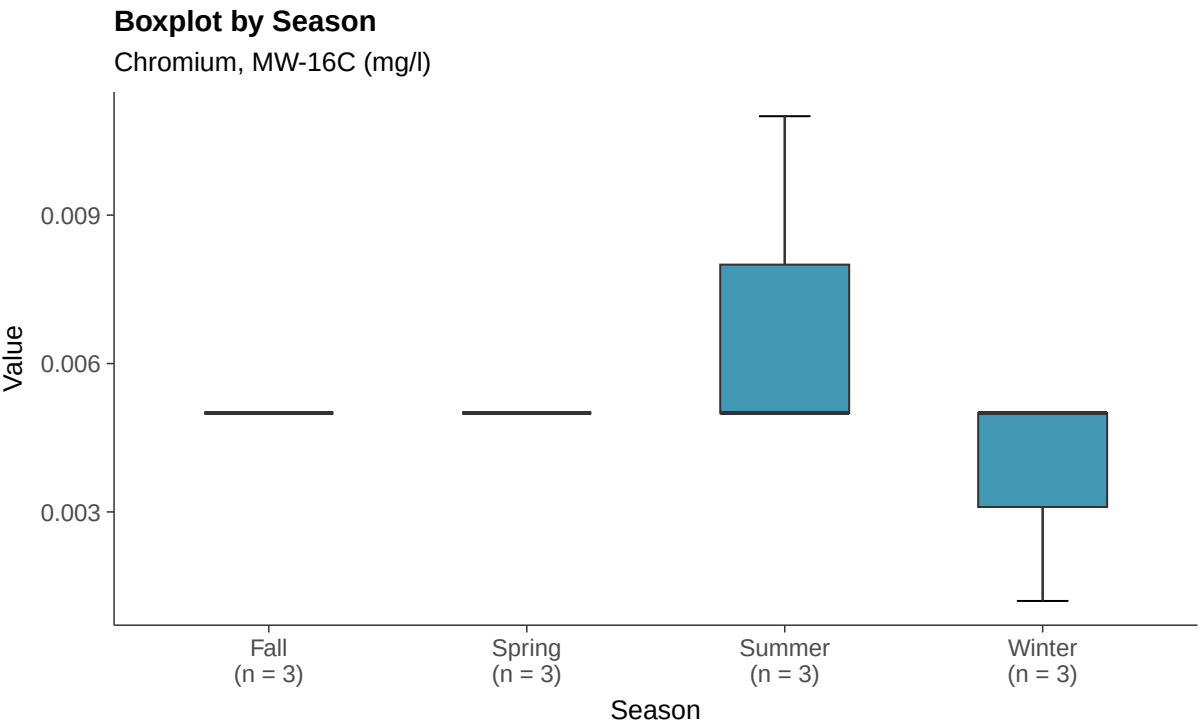
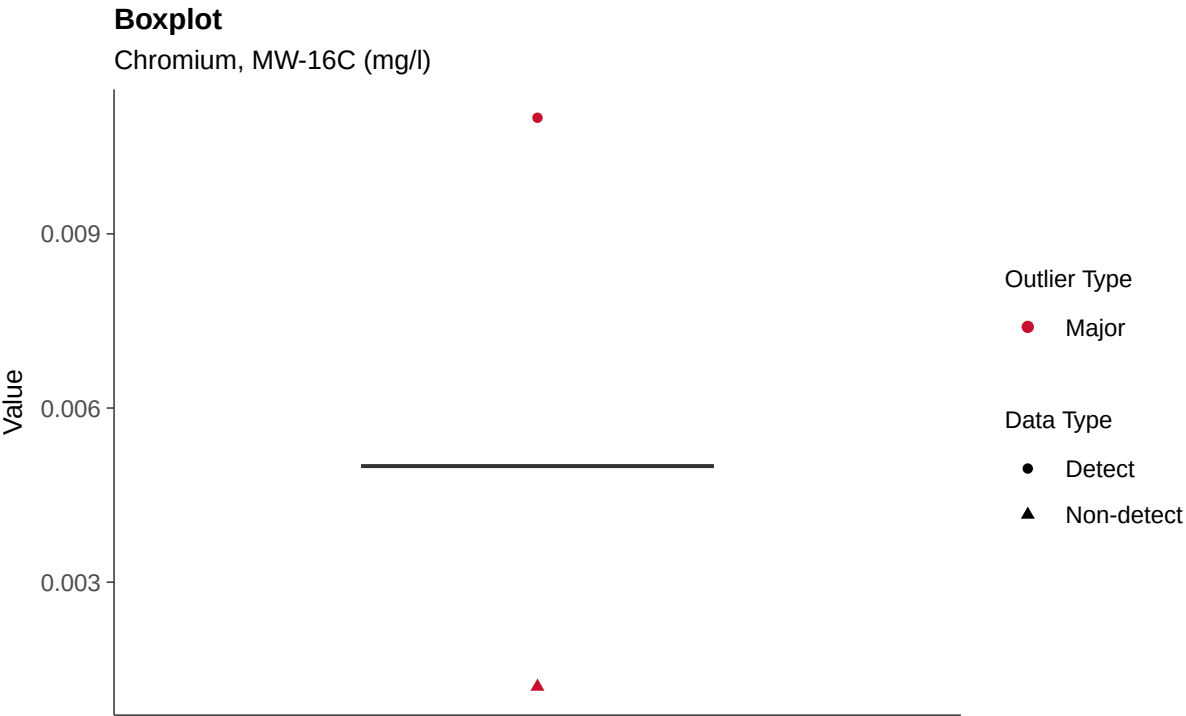




Appendix IV: Chromium, MW-16C

ID: 12_3_109

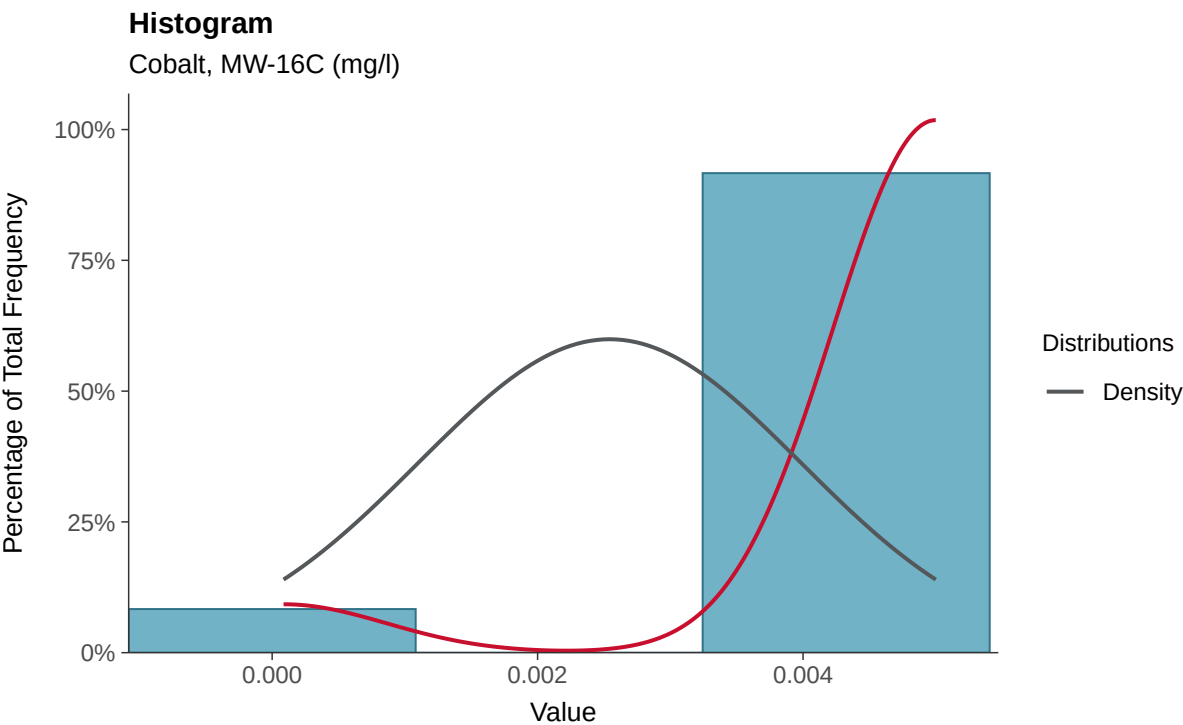
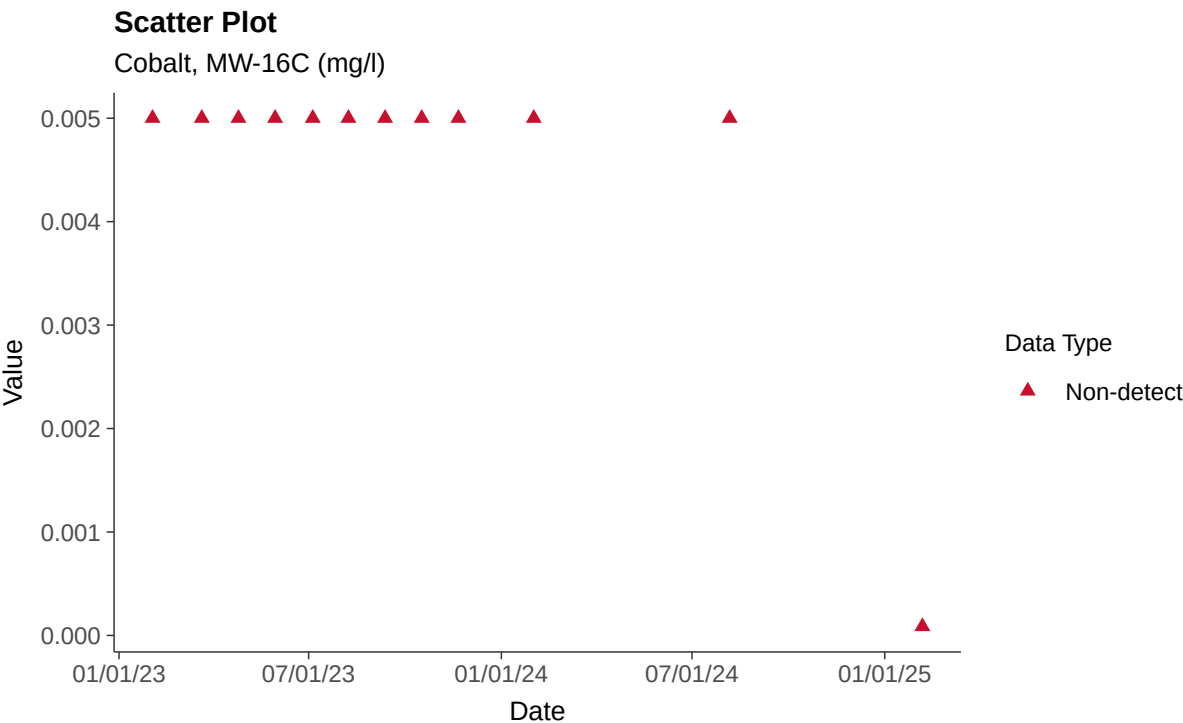


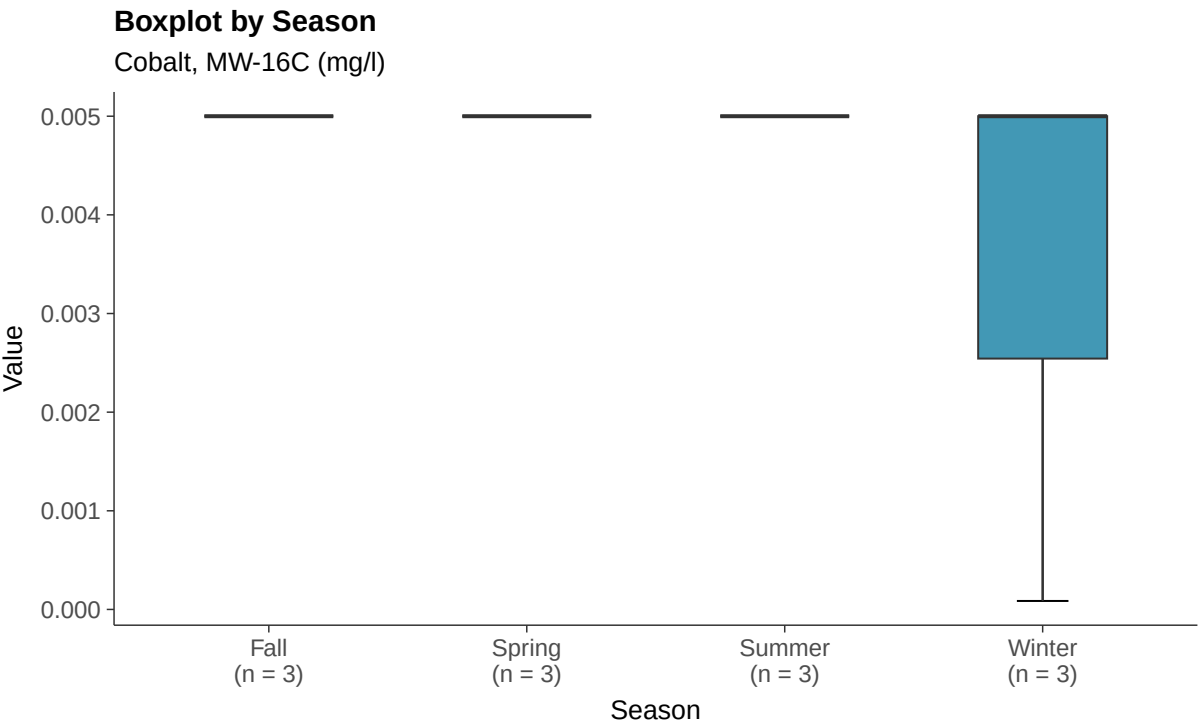
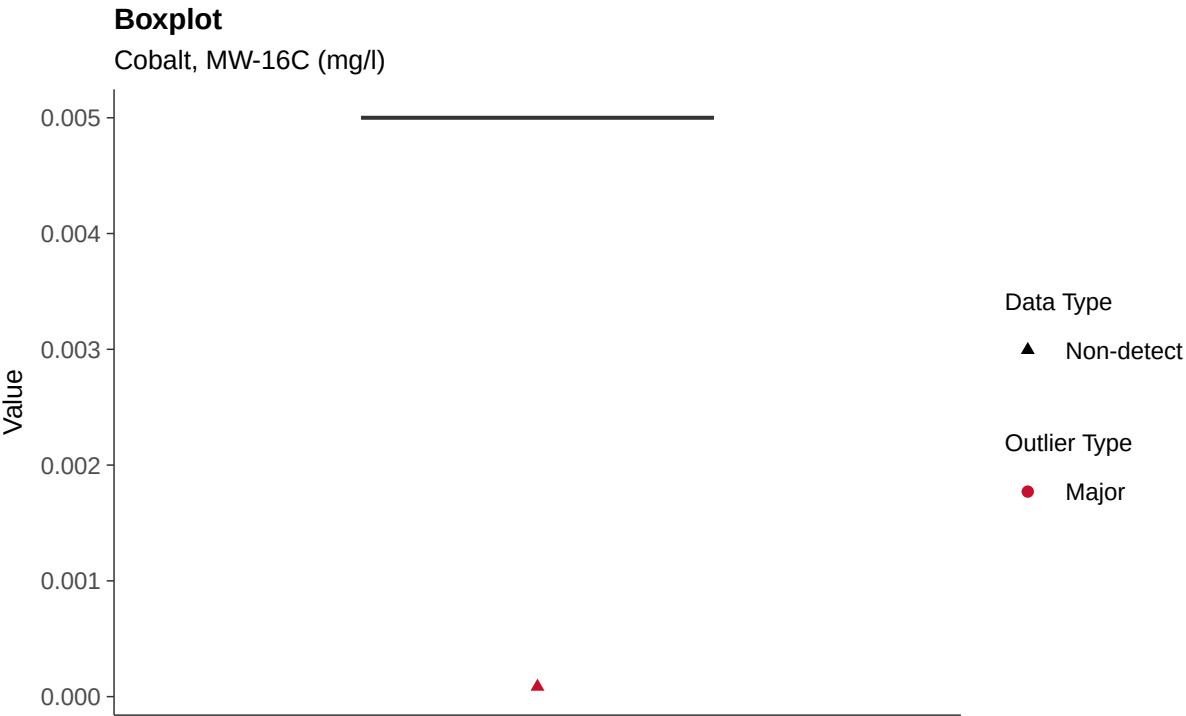




Appendix IV: Cobalt, MW-16C

ID: 12_3_110

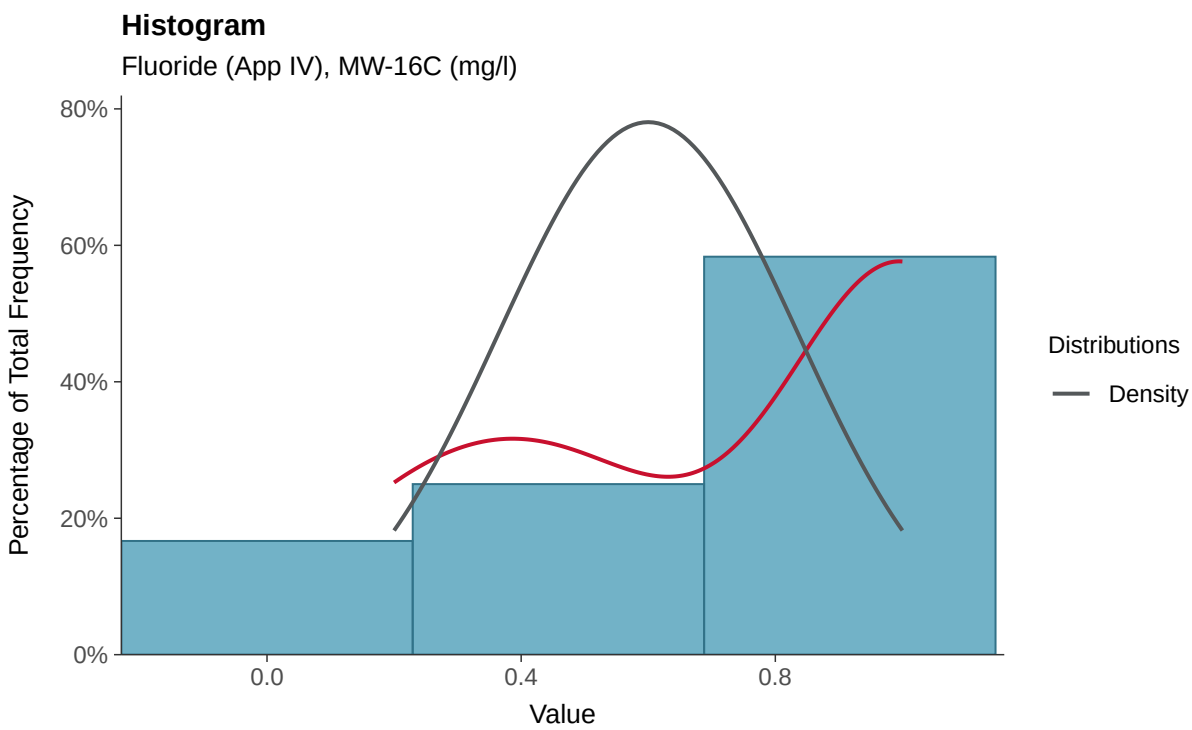
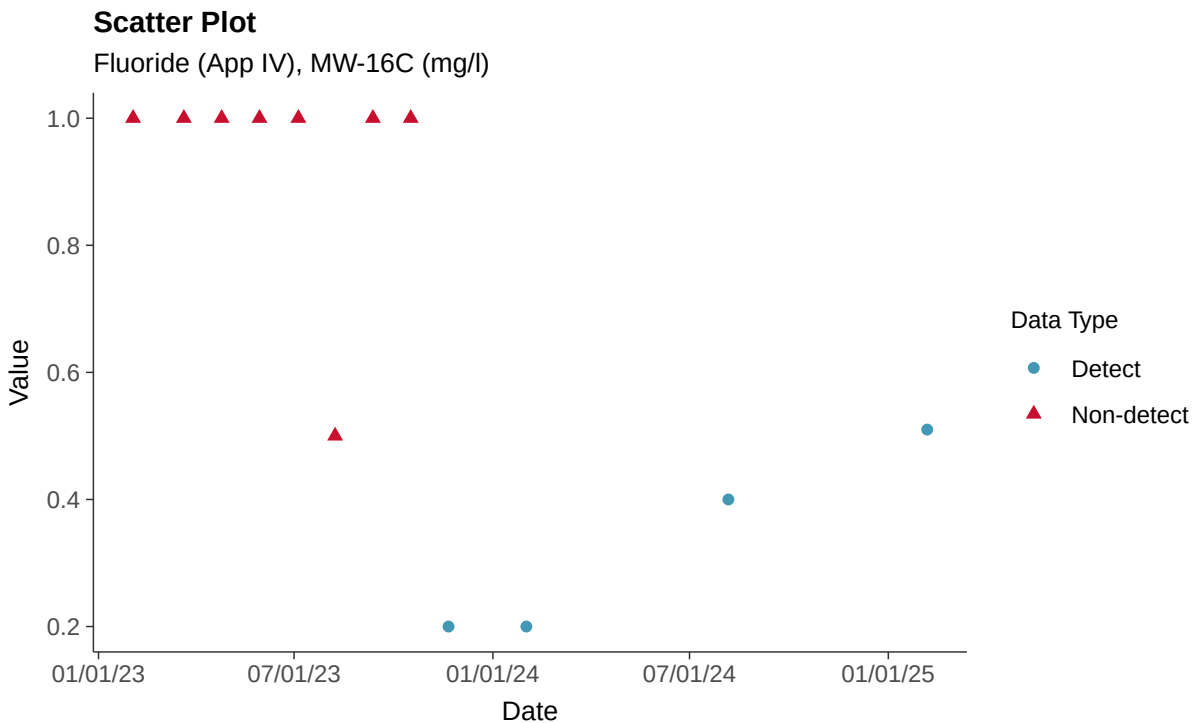






Appendix IV: Fluoride (App IV), MW-16C

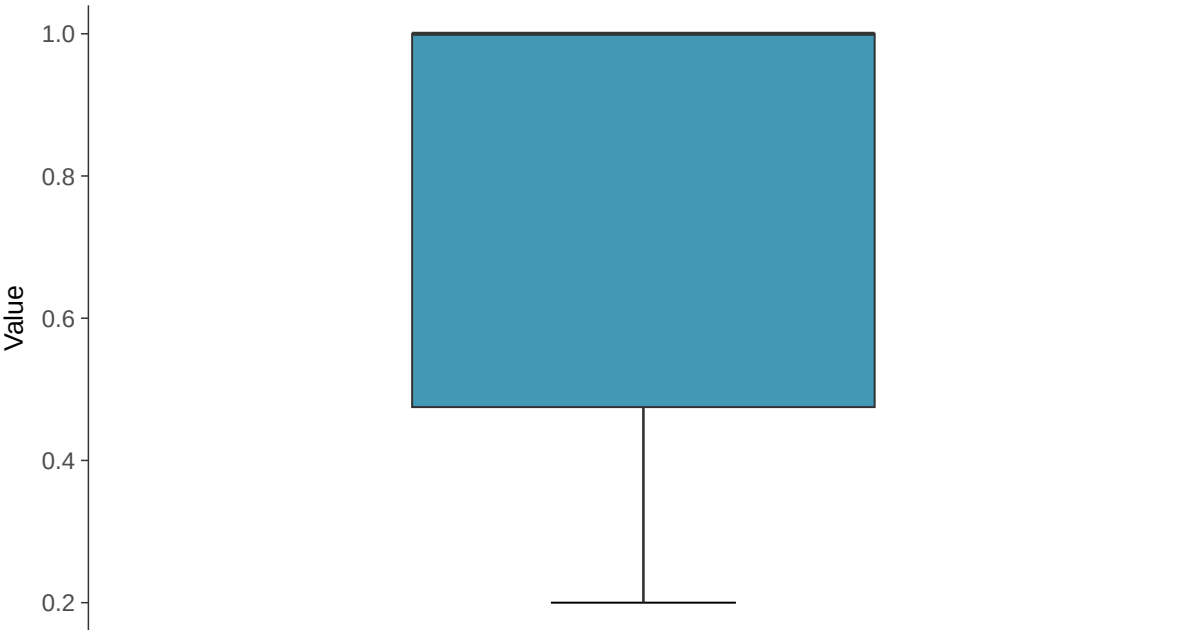
ID: 12_3_113





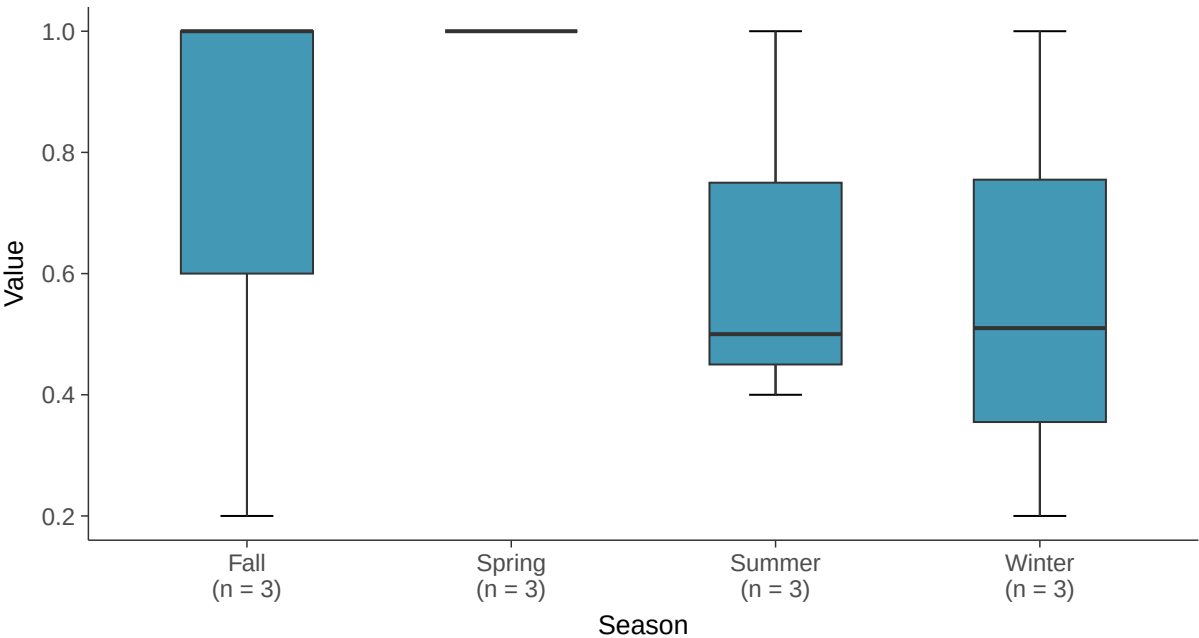
Boxplot

Fluoride (App IV), MW-16C (mg/l)



Boxplot by Season

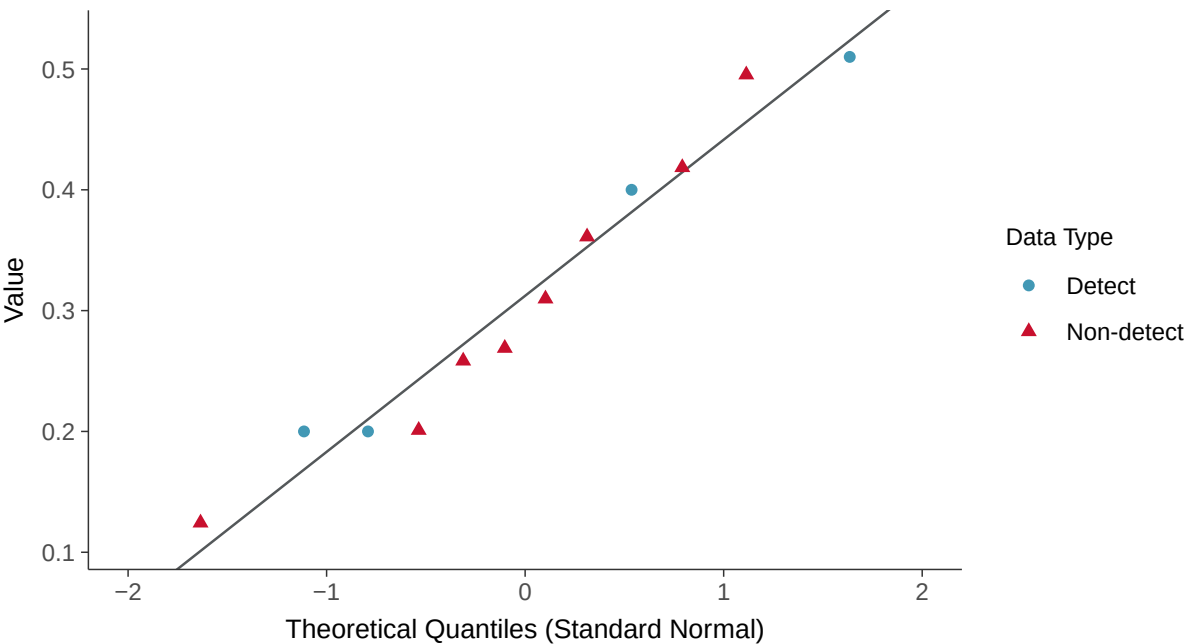
Fluoride (App IV), MW-16C (mg/l)





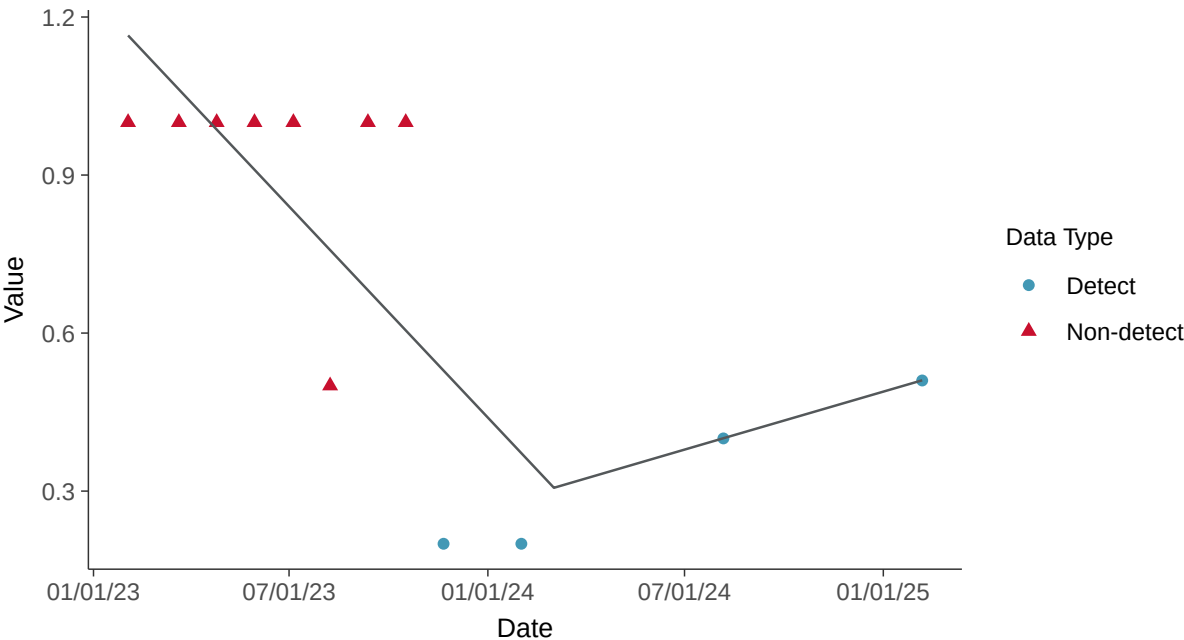
Normal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-16C (mg/l)



Trend Regression: Piecewise Linear-Linear

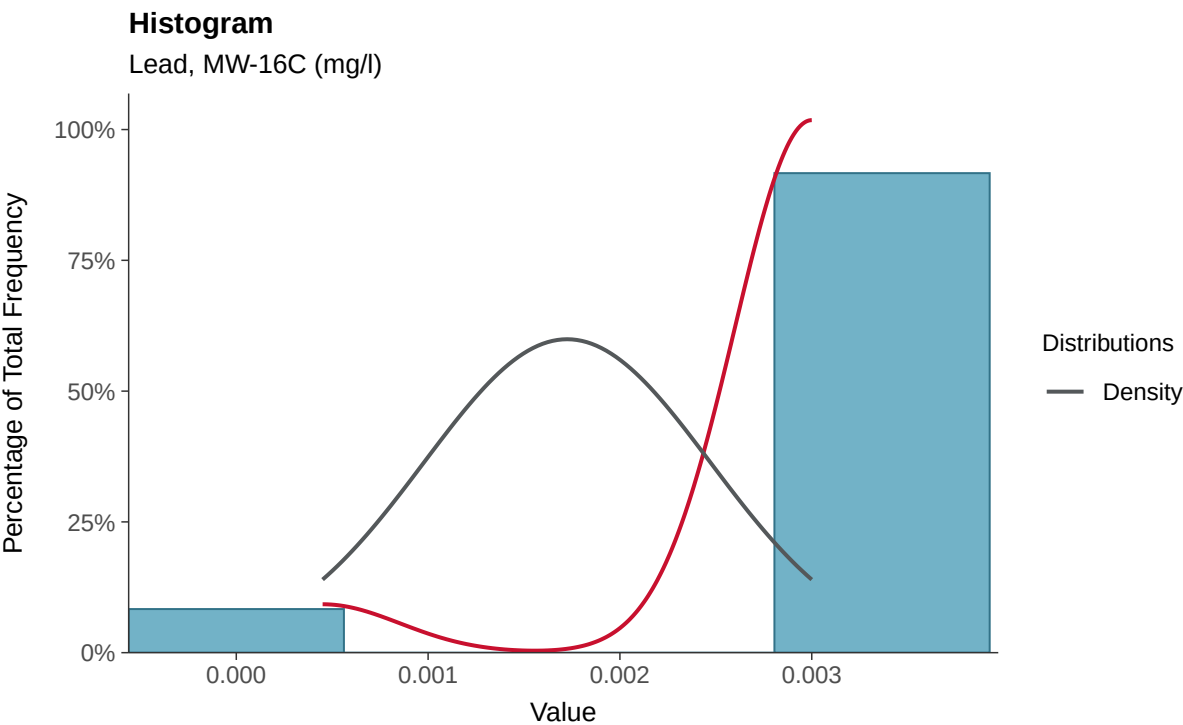
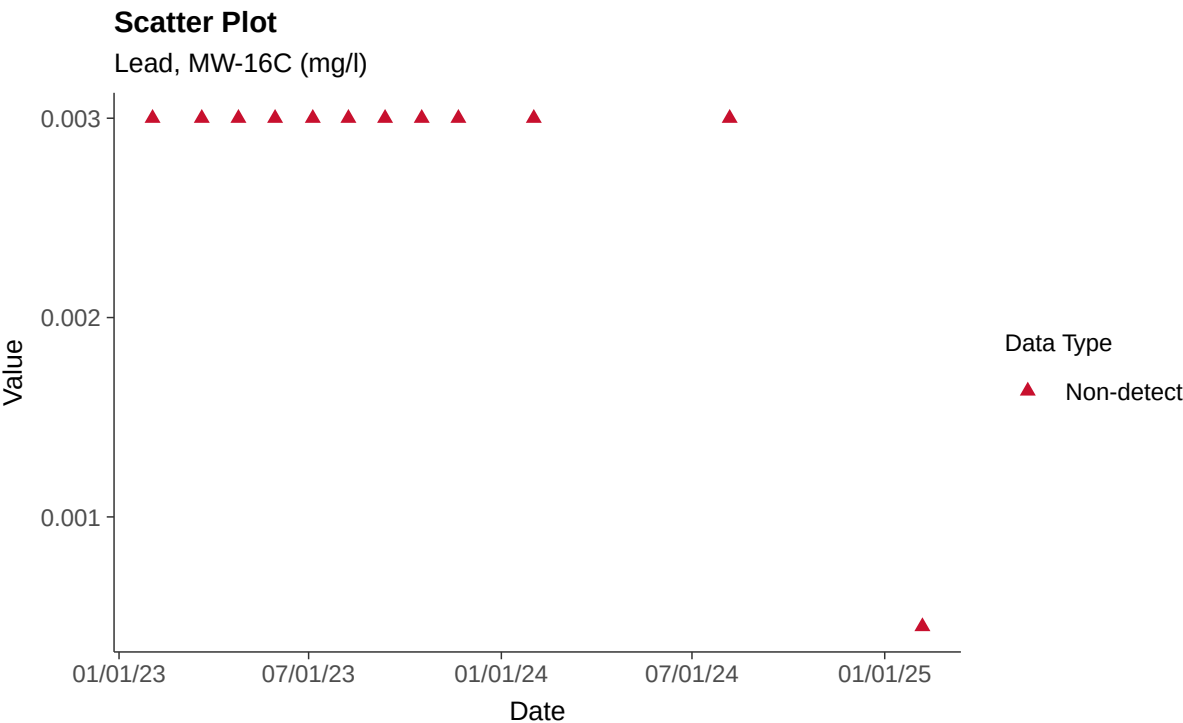
Fluoride (App IV), MW-16C (mg/l)

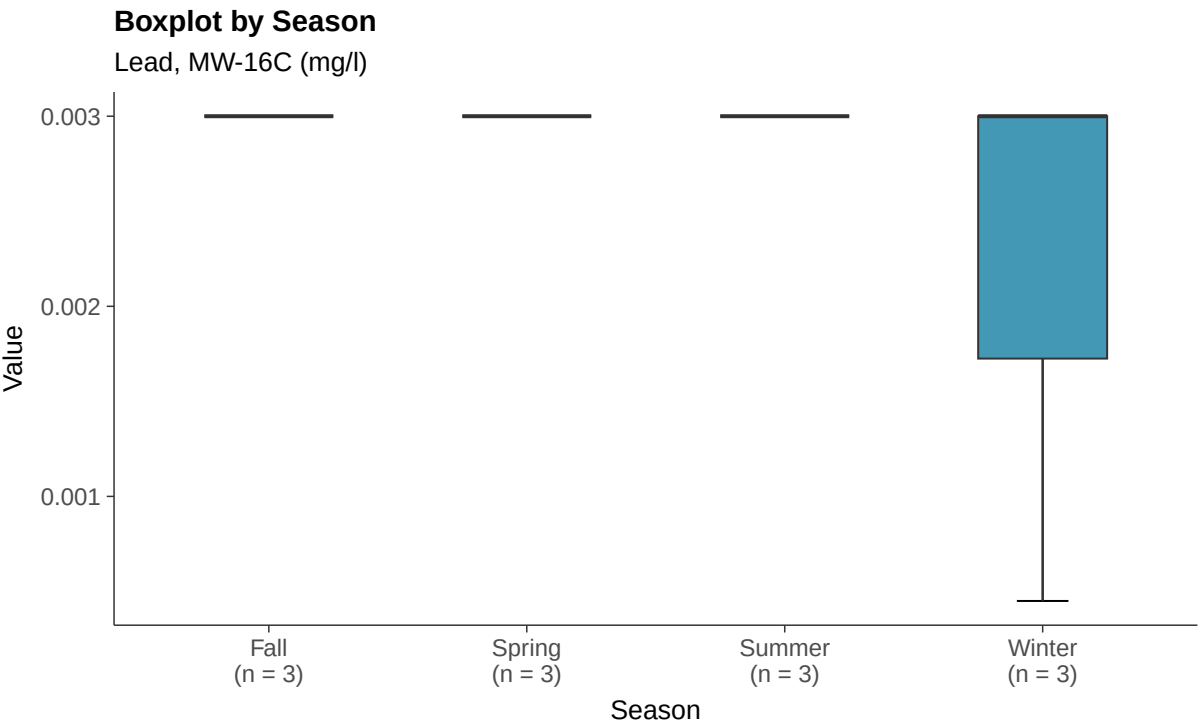
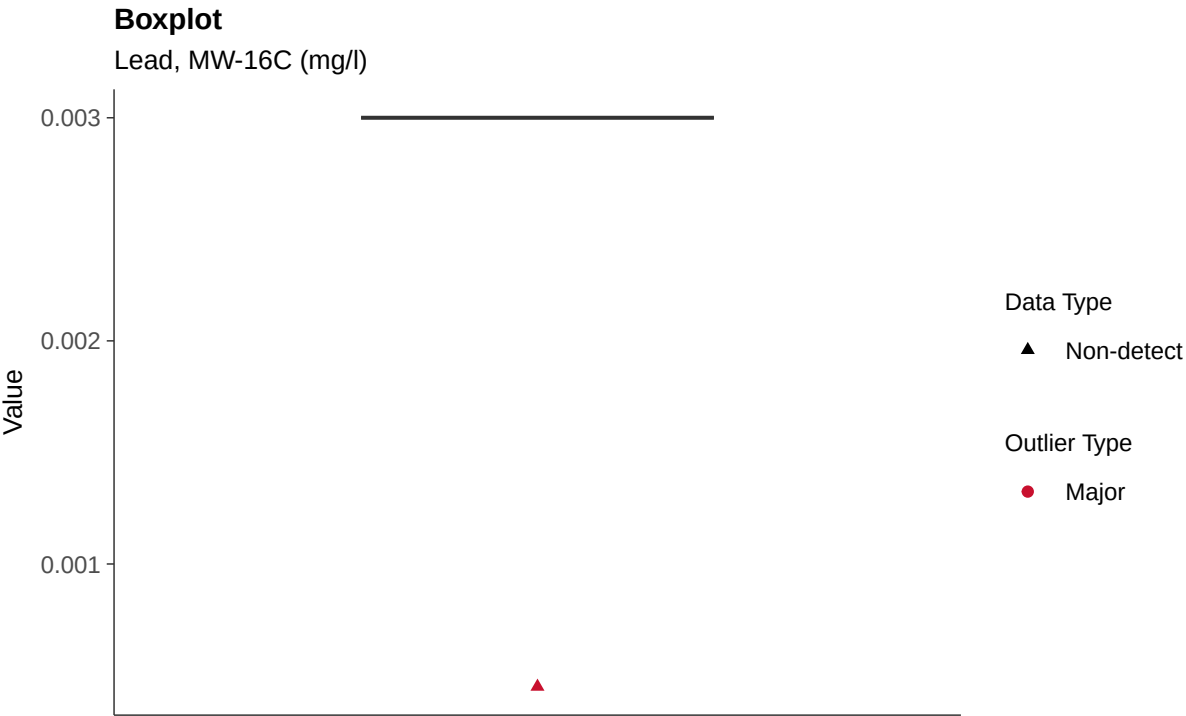




Appendix IV: Lead, MW-16C

ID: 12_3_115

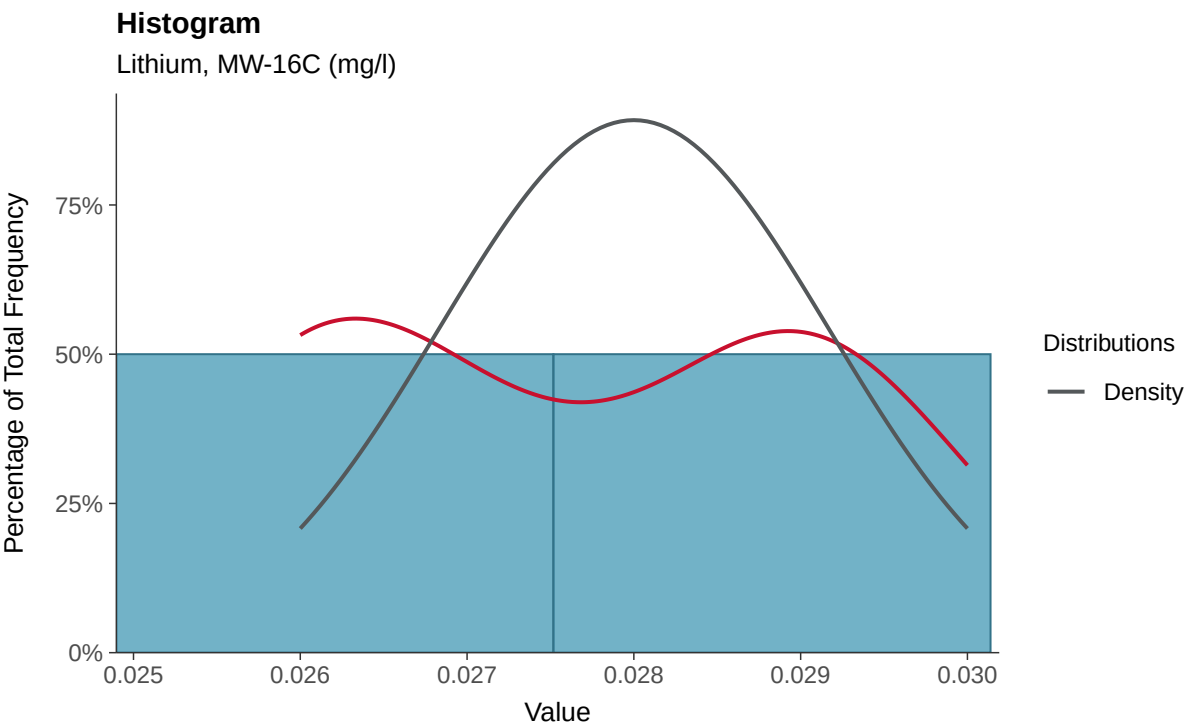
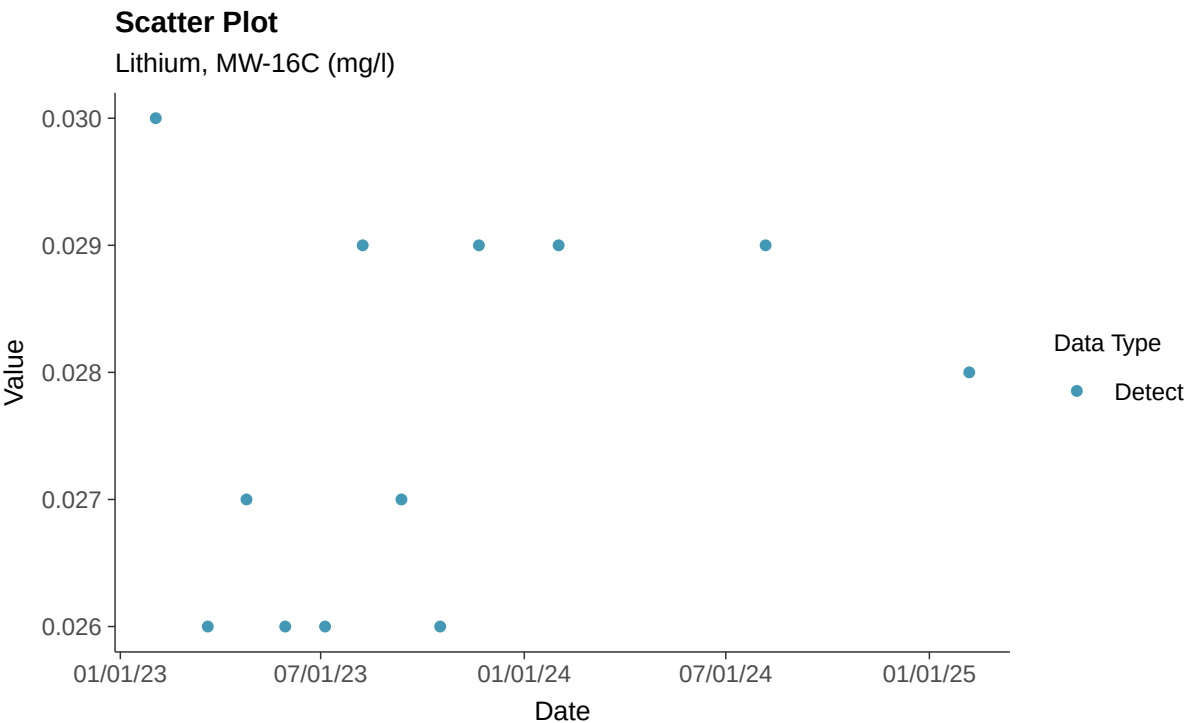


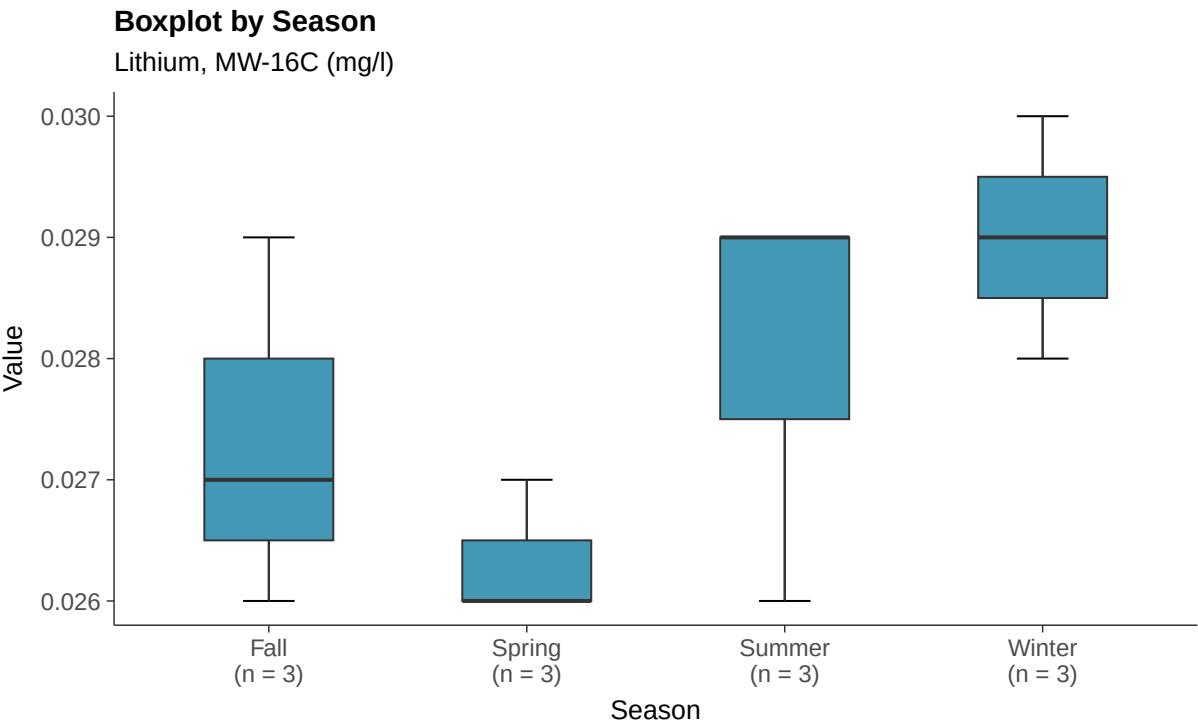
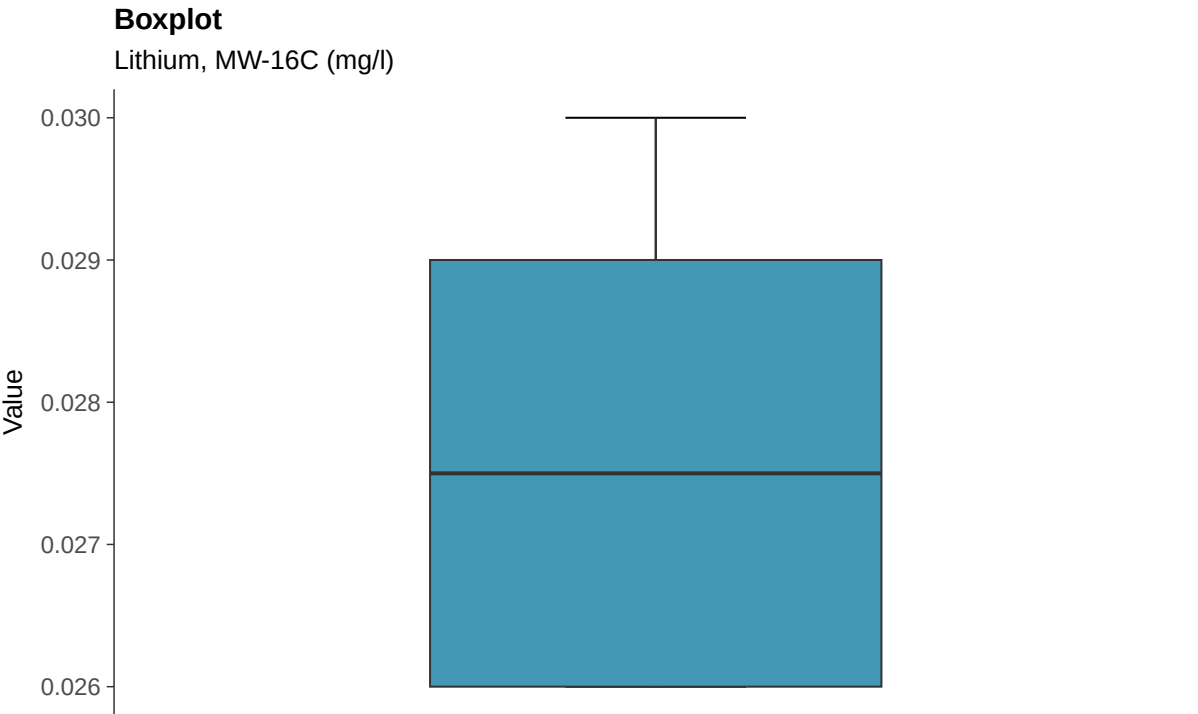


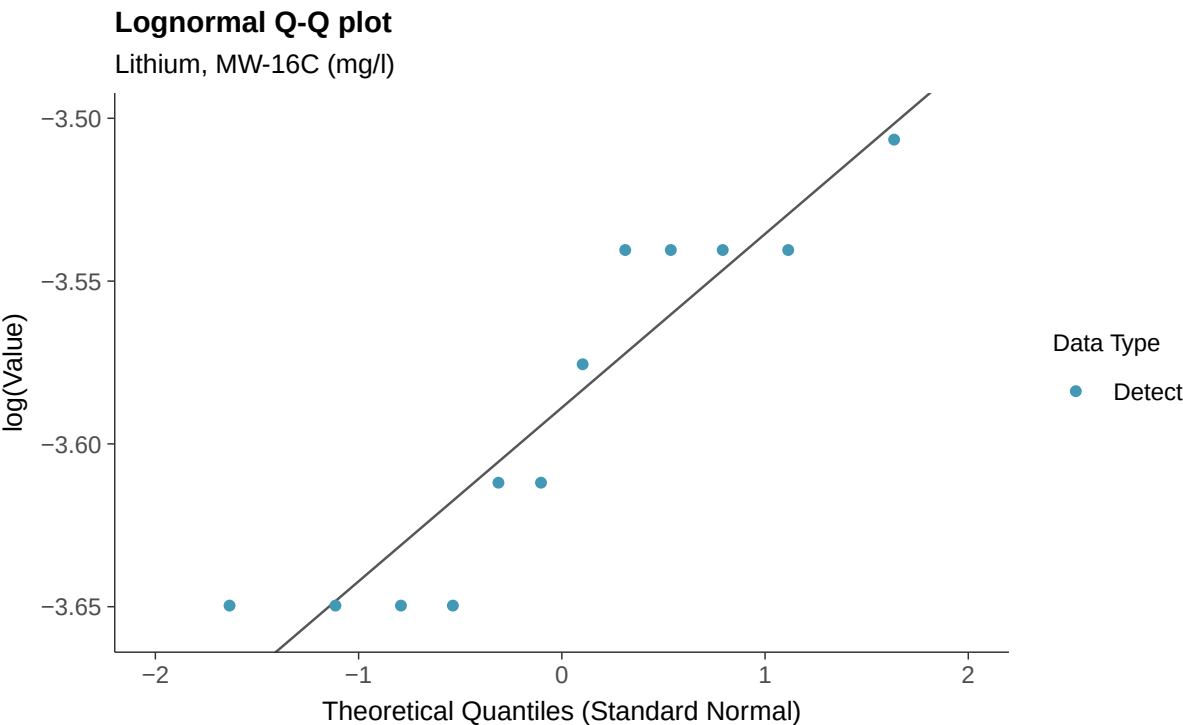
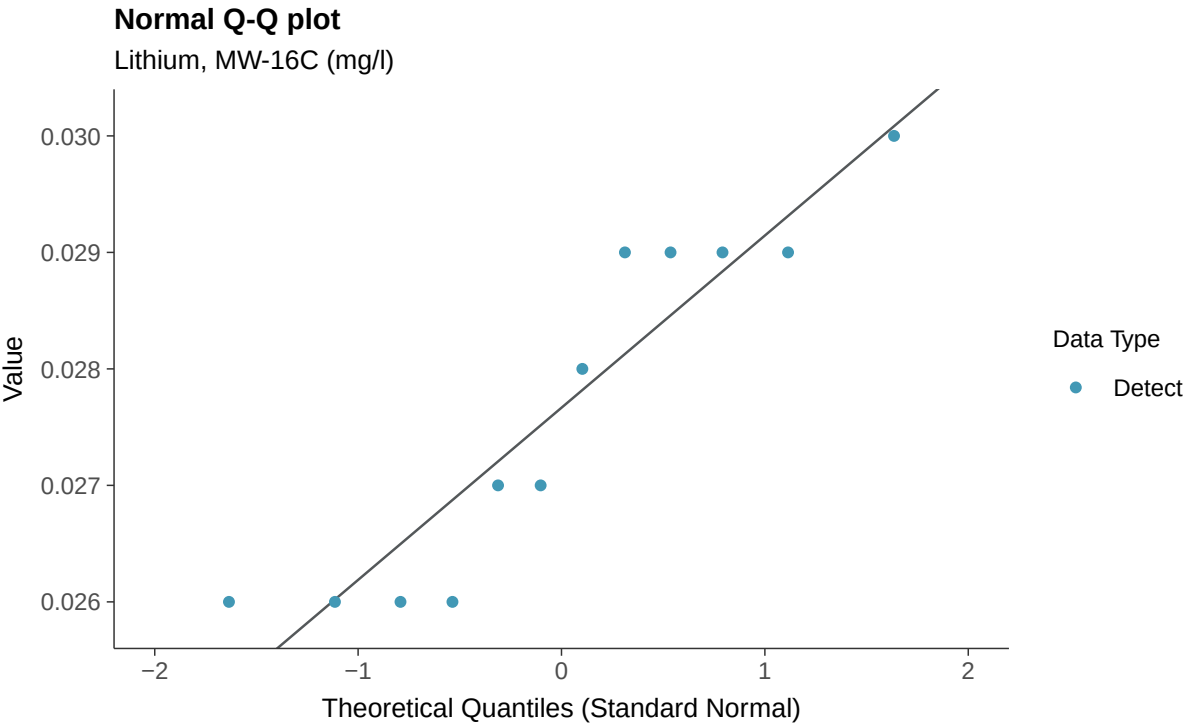


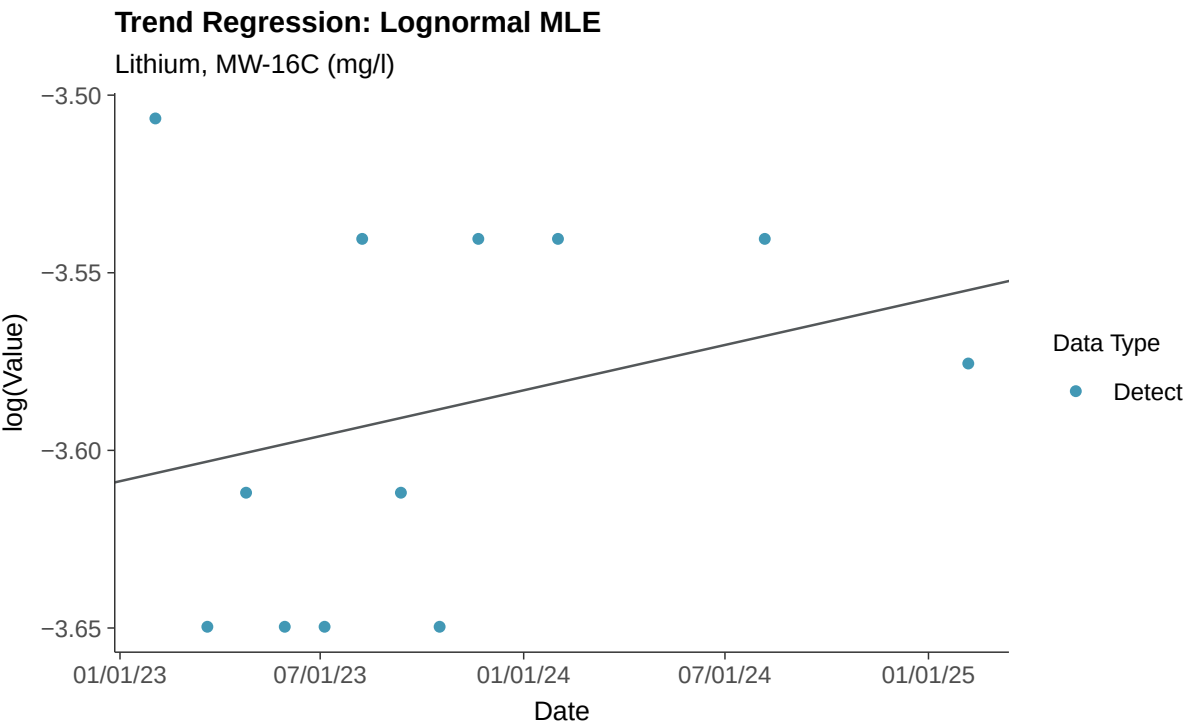
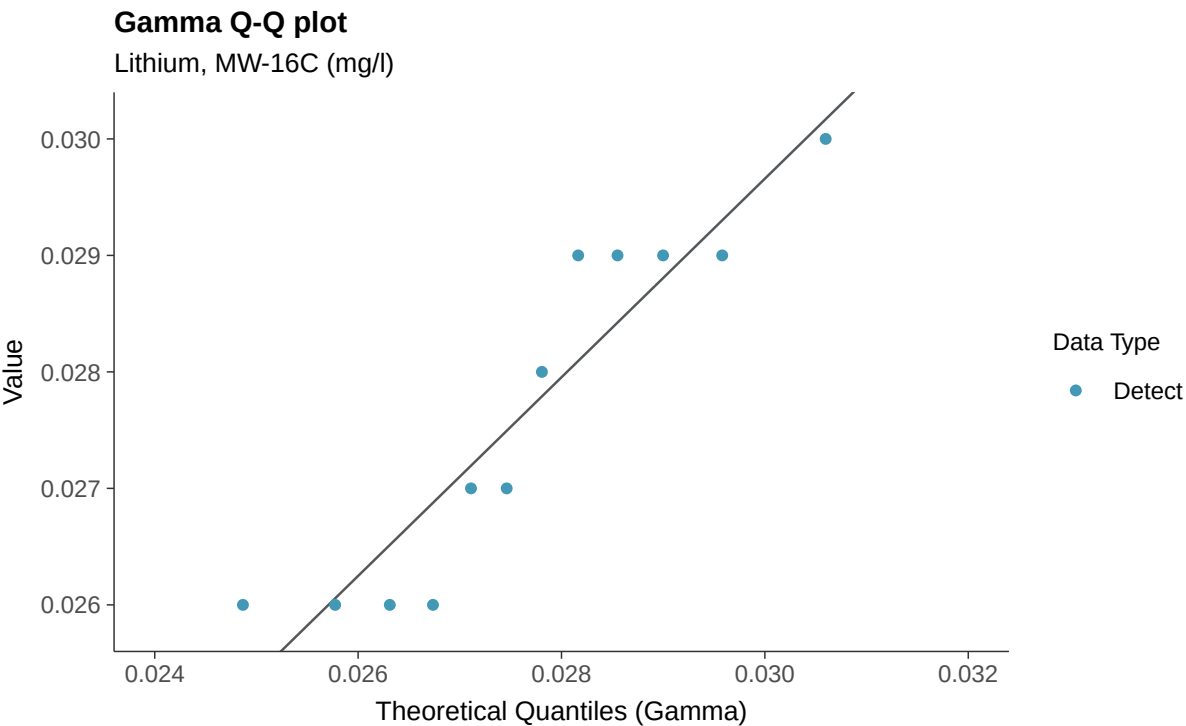
Appendix IV: Lithium, MW-16C

ID: 12_3_116





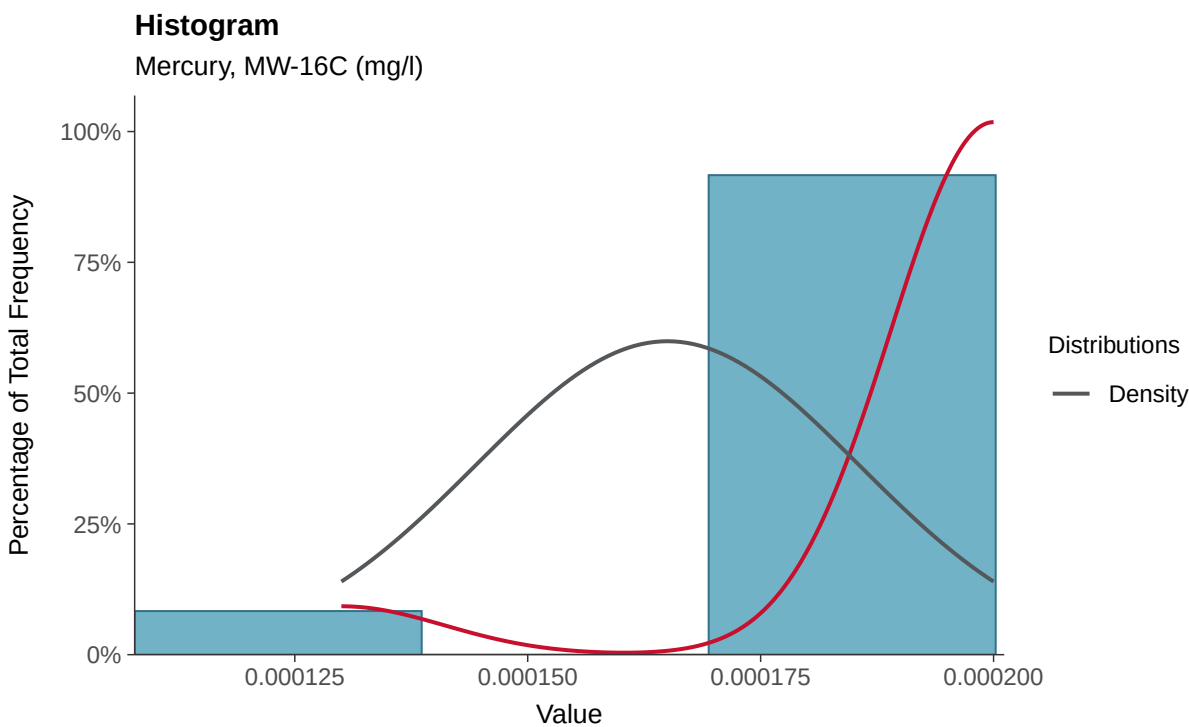
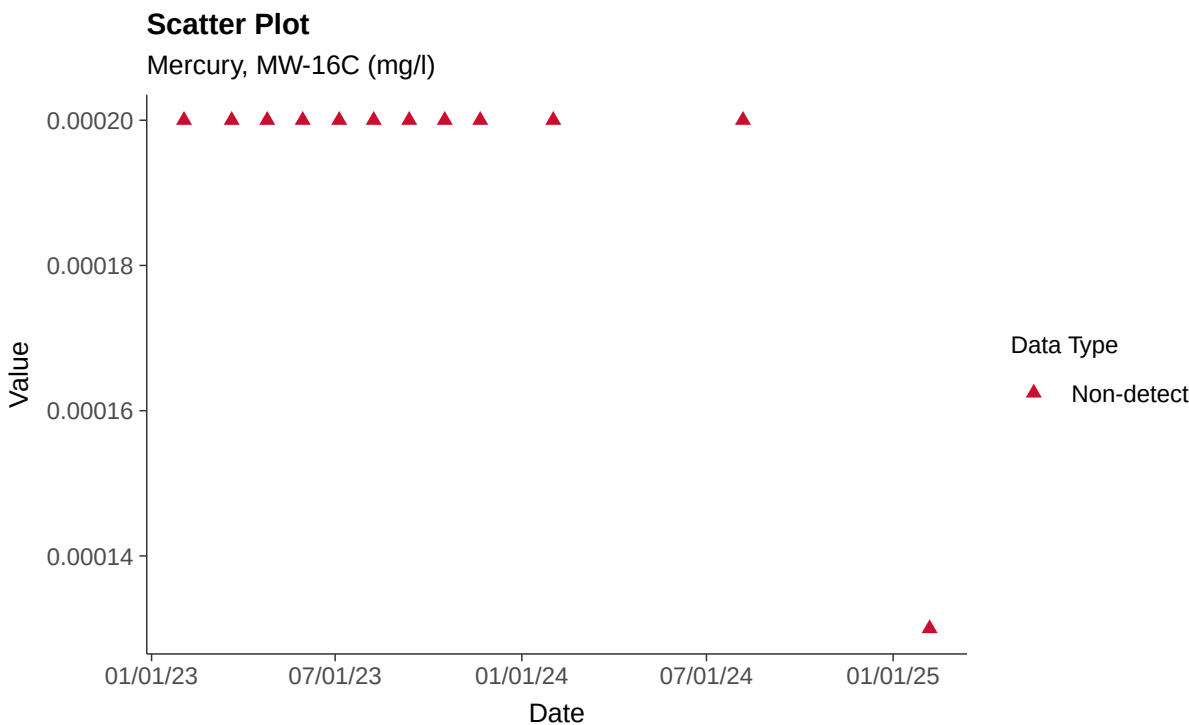


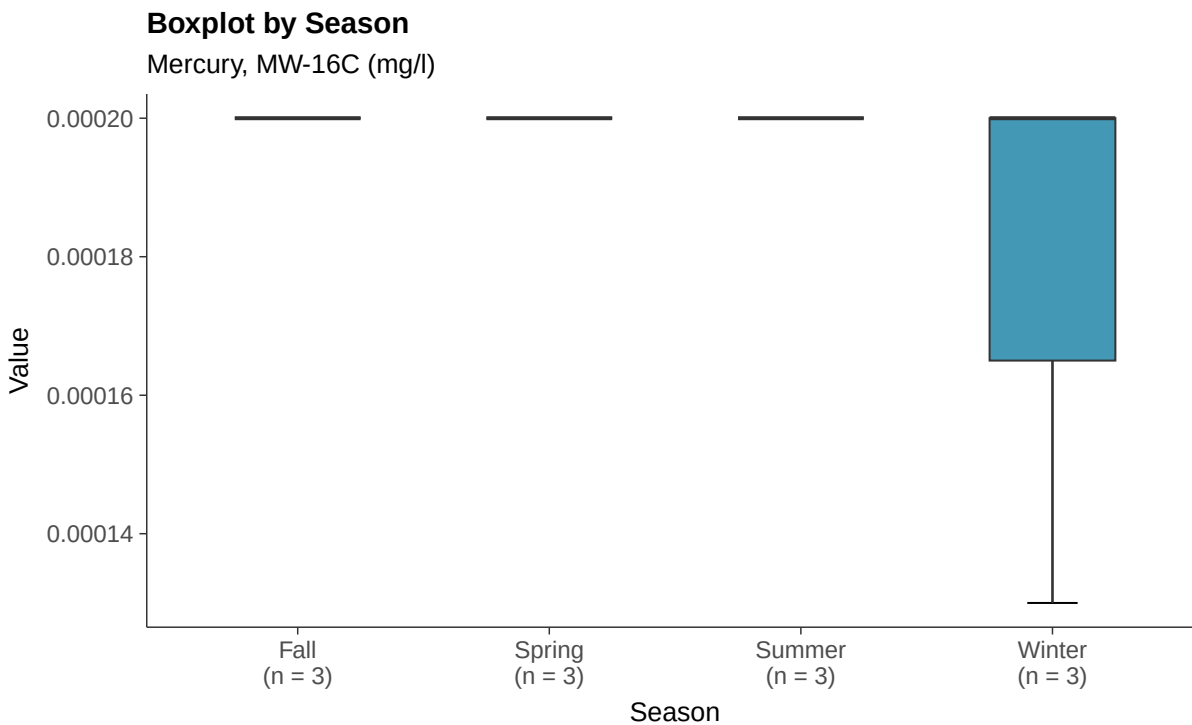
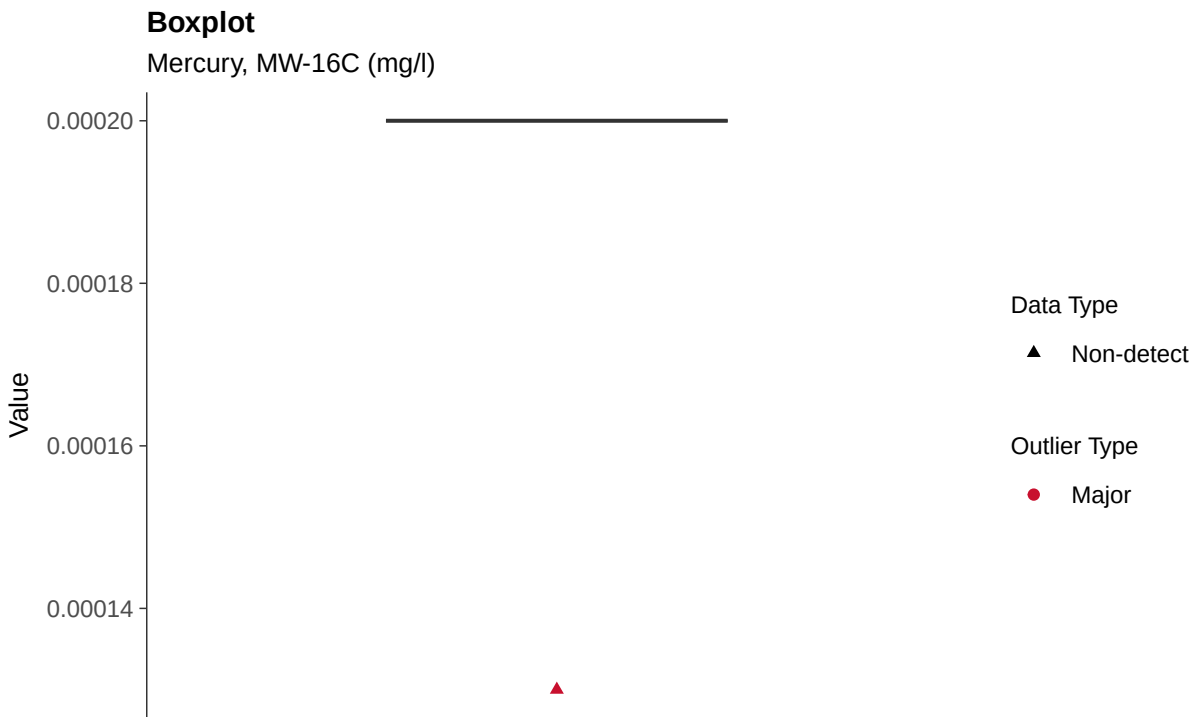




Appendix IV: Mercury, MW-16C

ID: 12_3_117

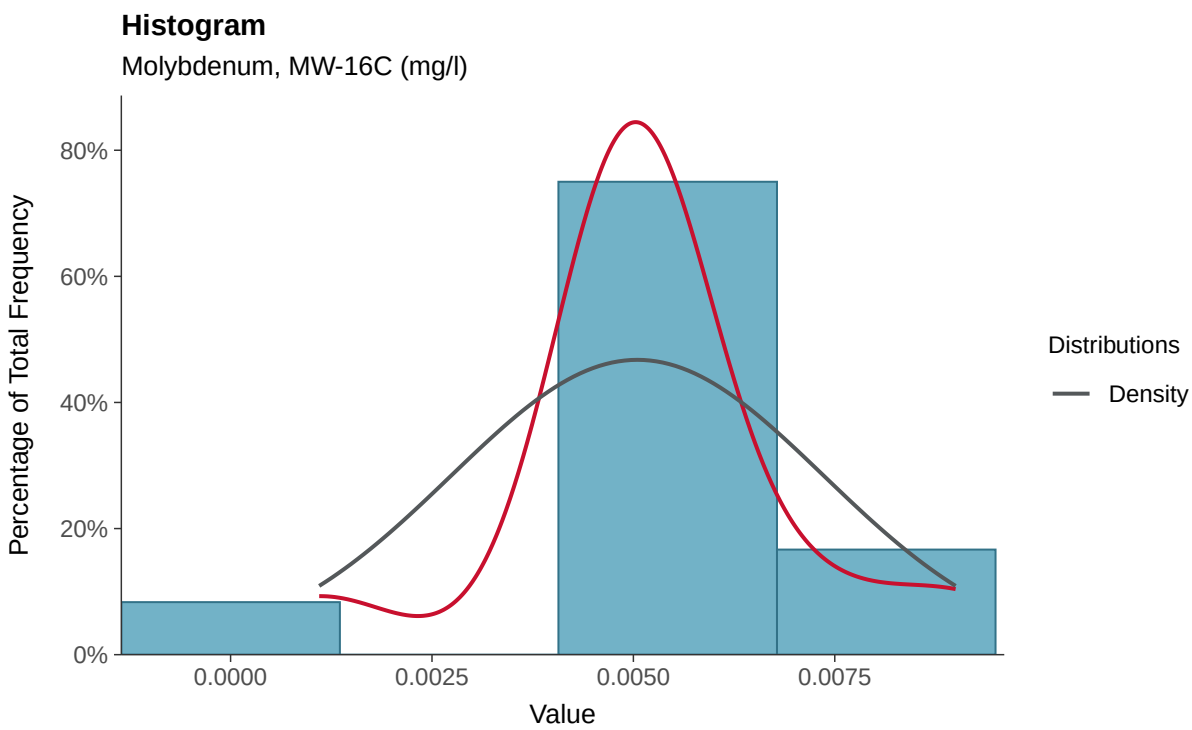
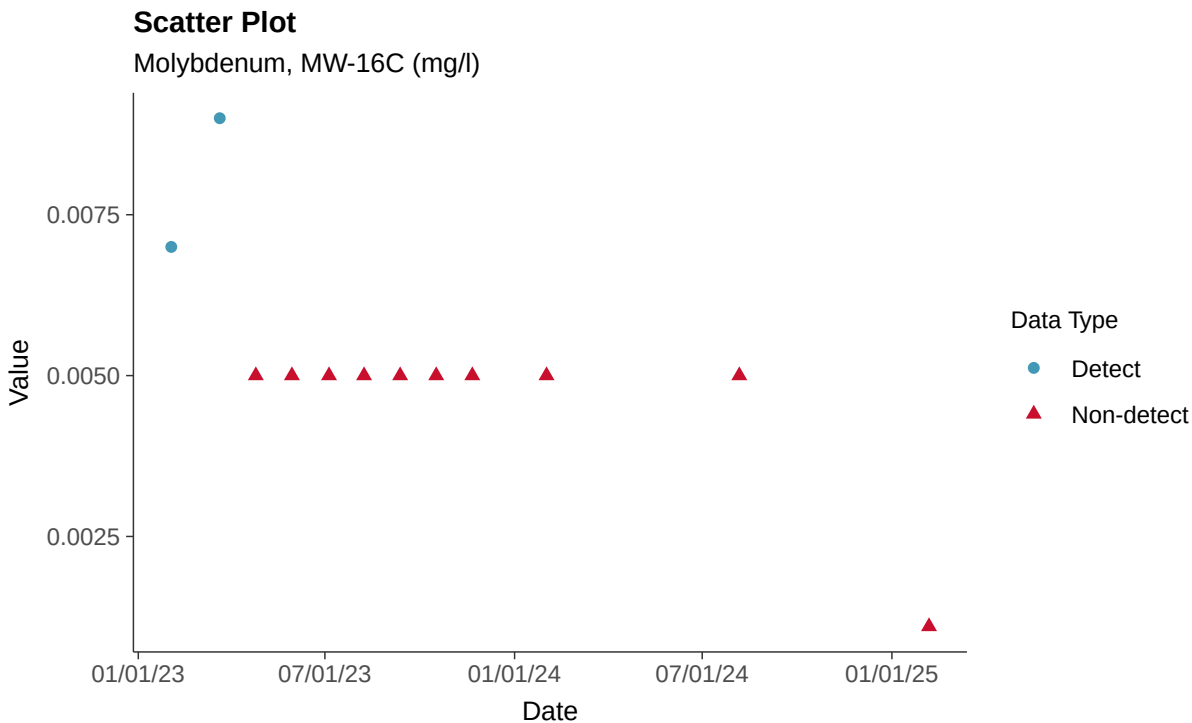


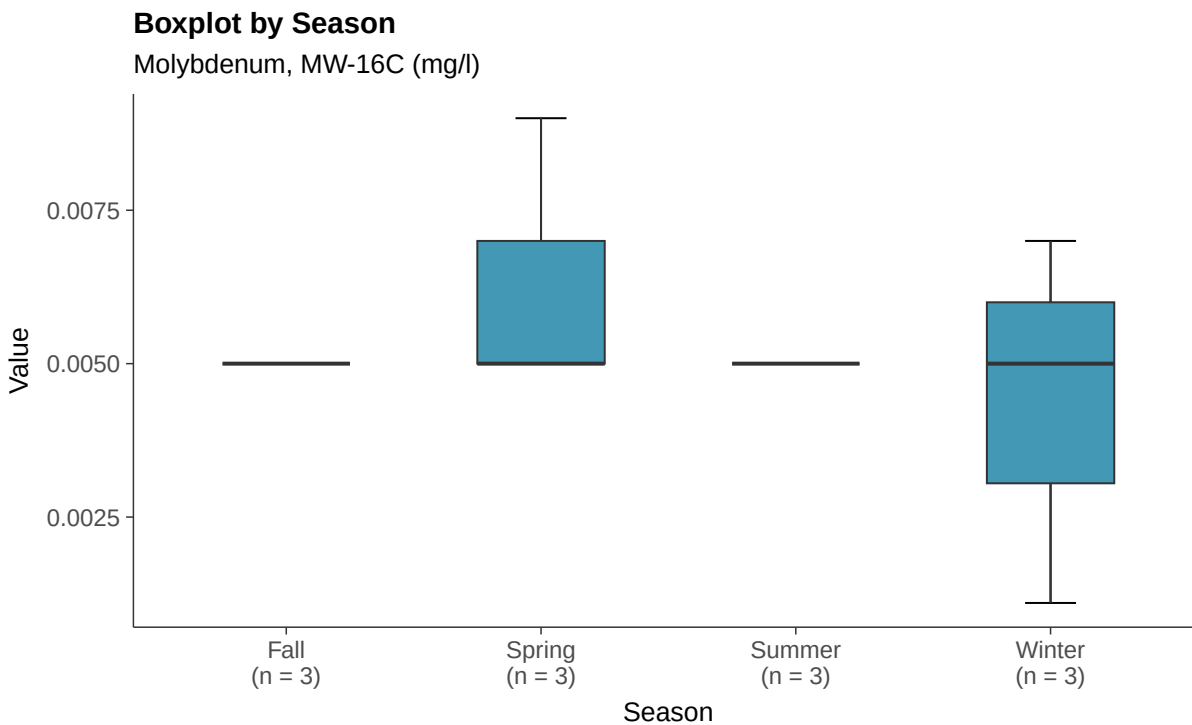
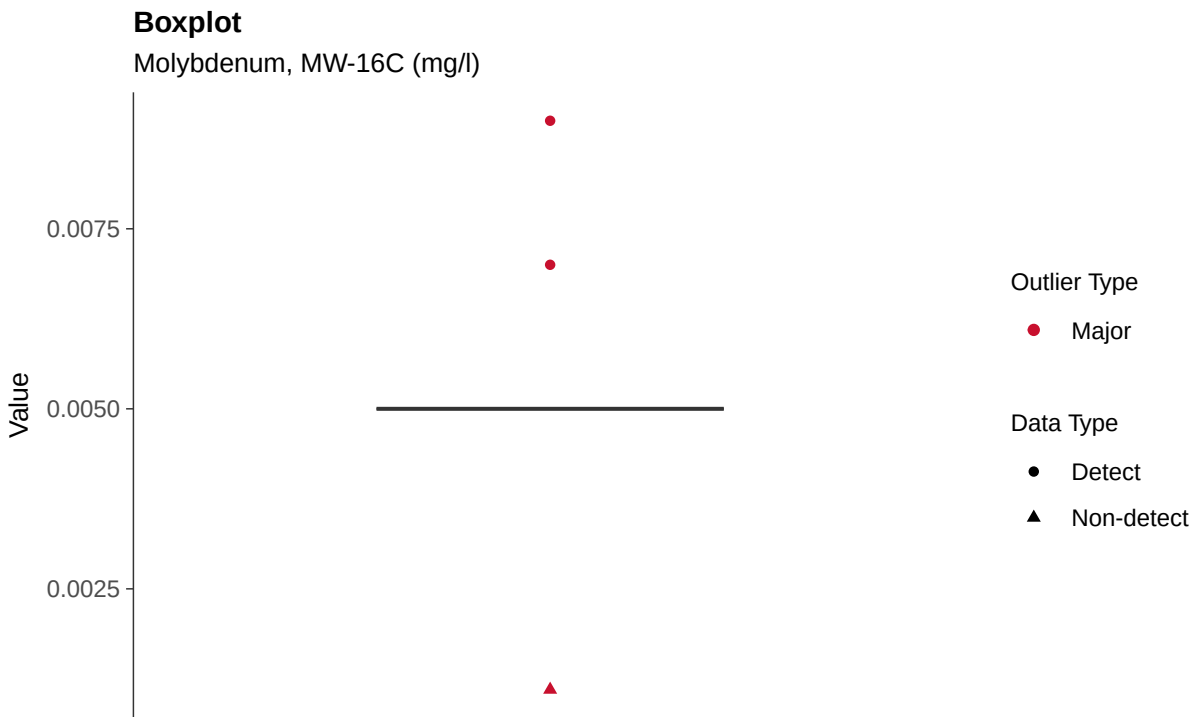


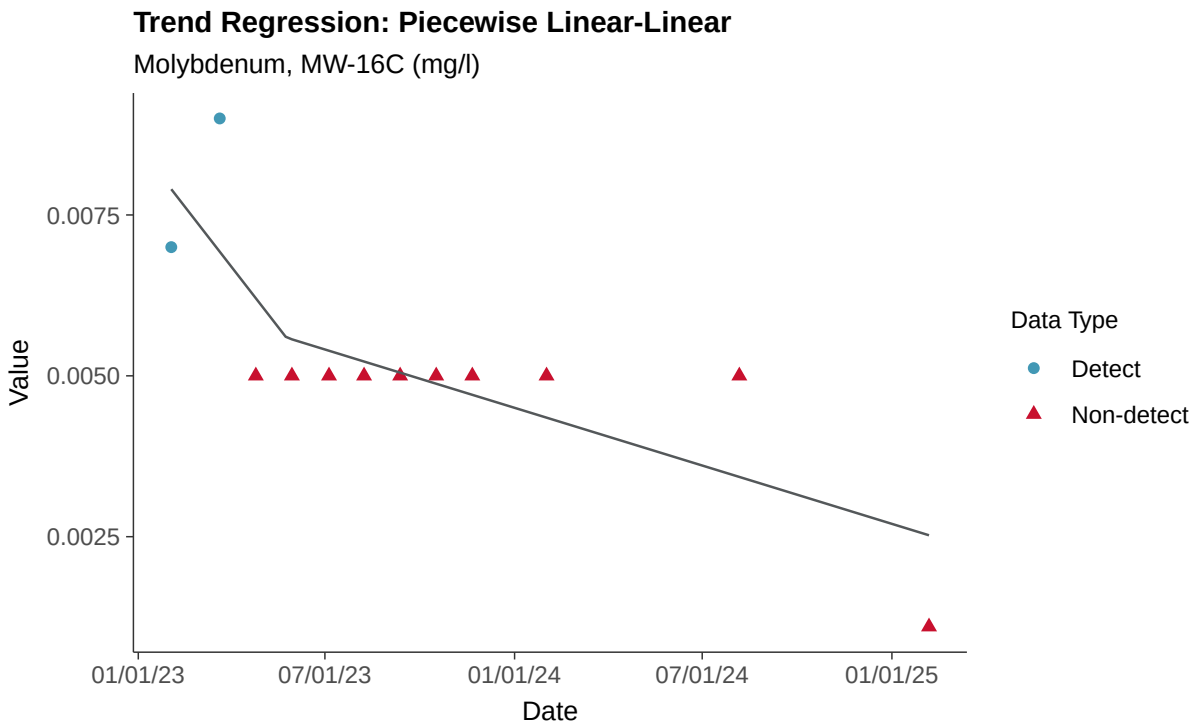
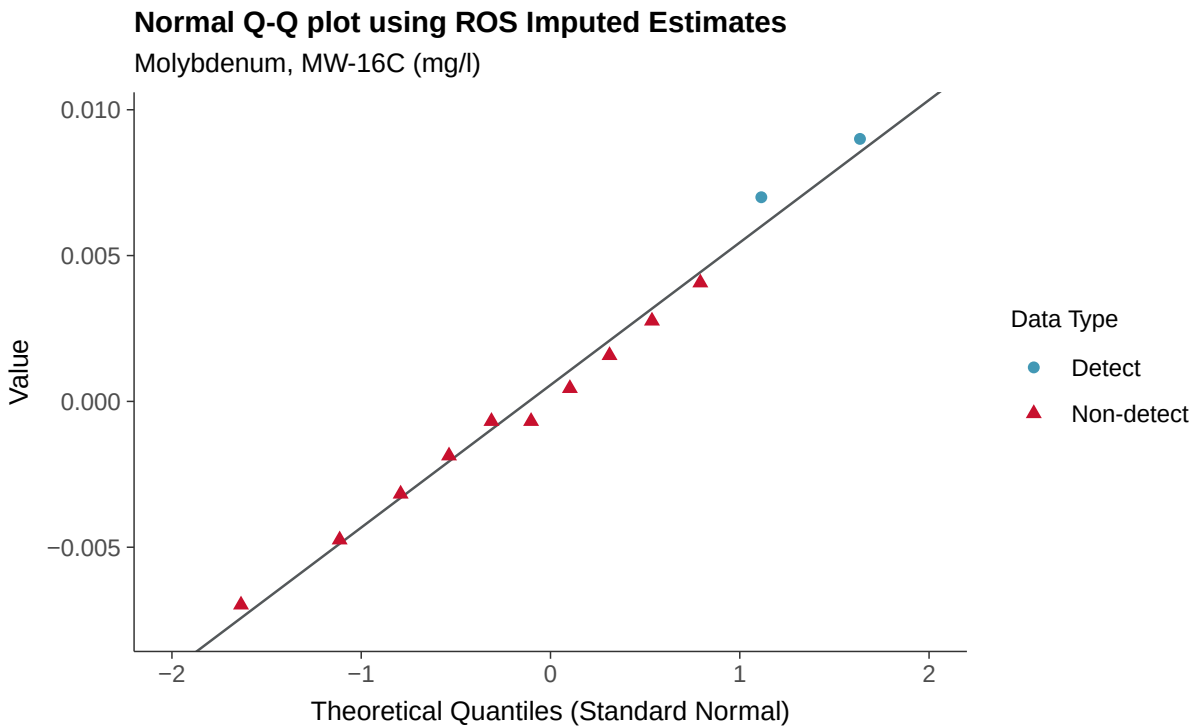


Appendix IV: Molybdenum, MW-16C

ID: 12_3_118



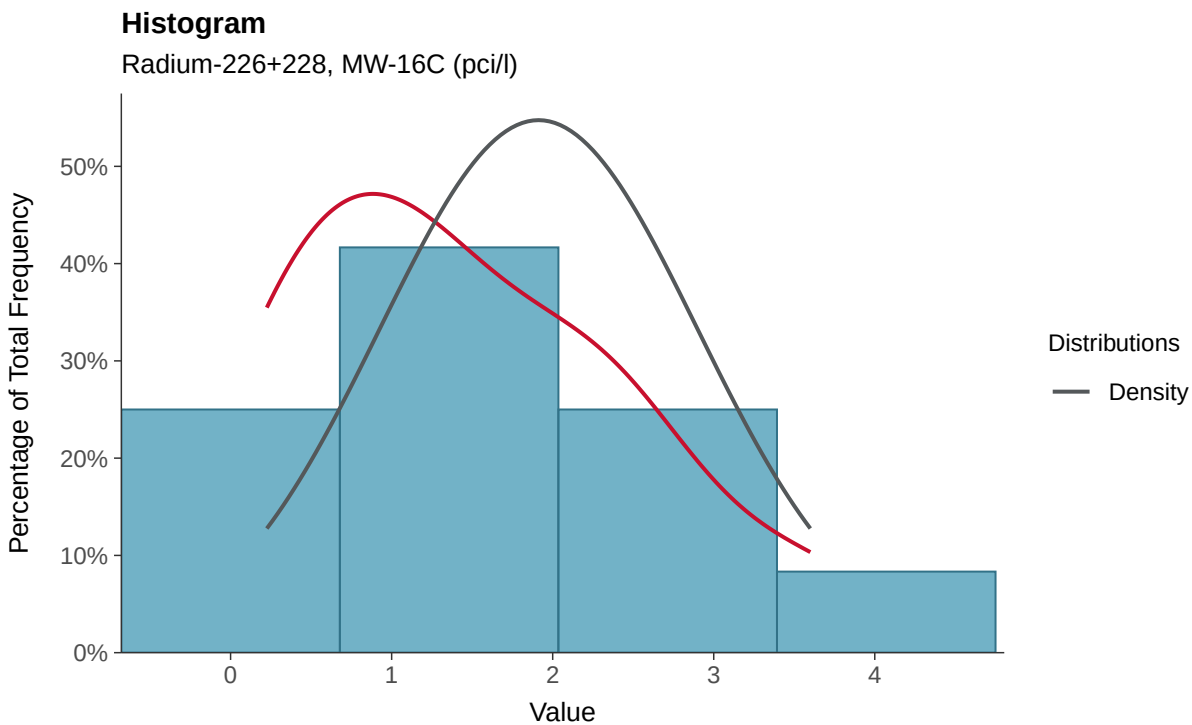
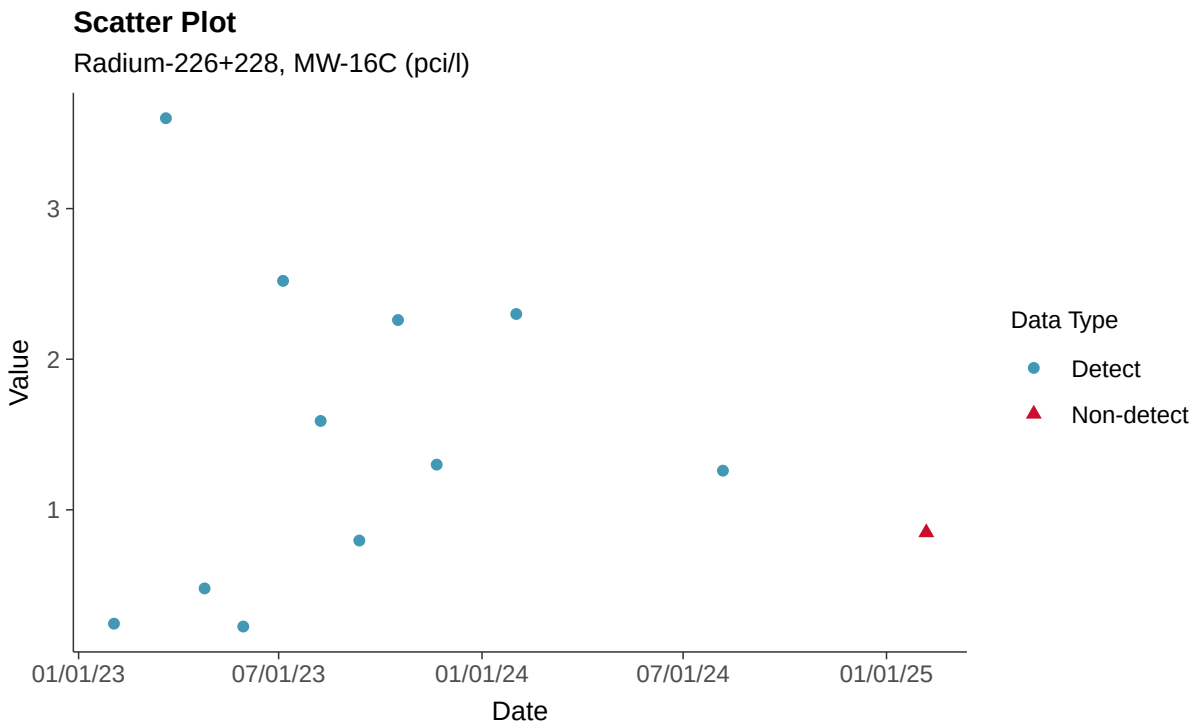






Appendix IV: Radium-226+228, MW-16C

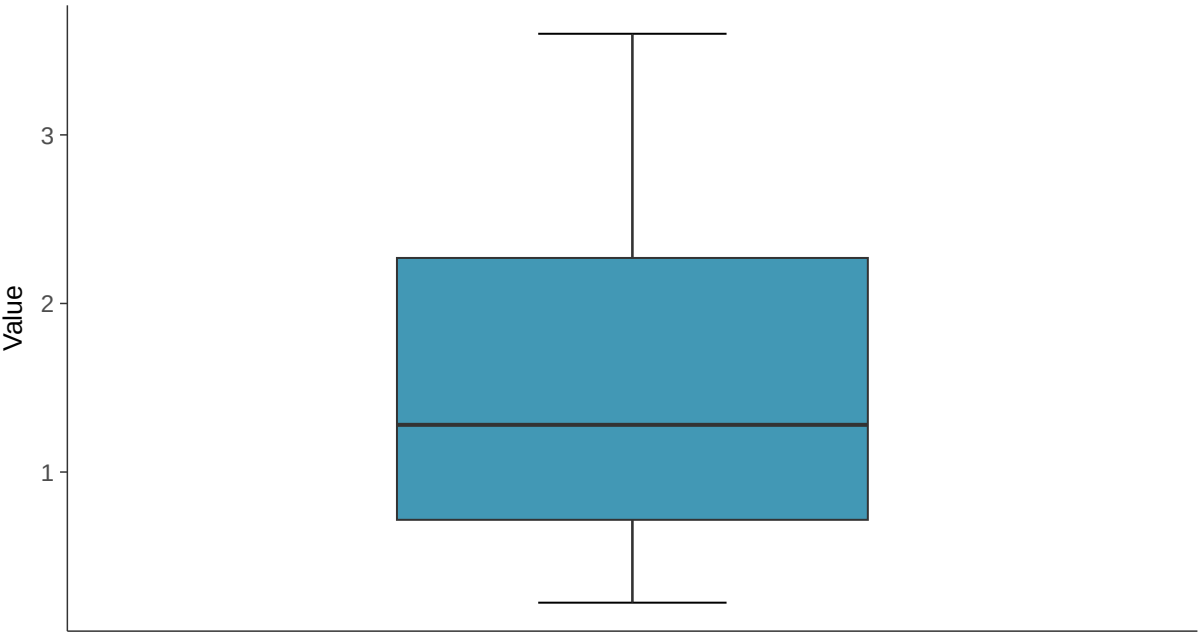
ID: 12_3_121





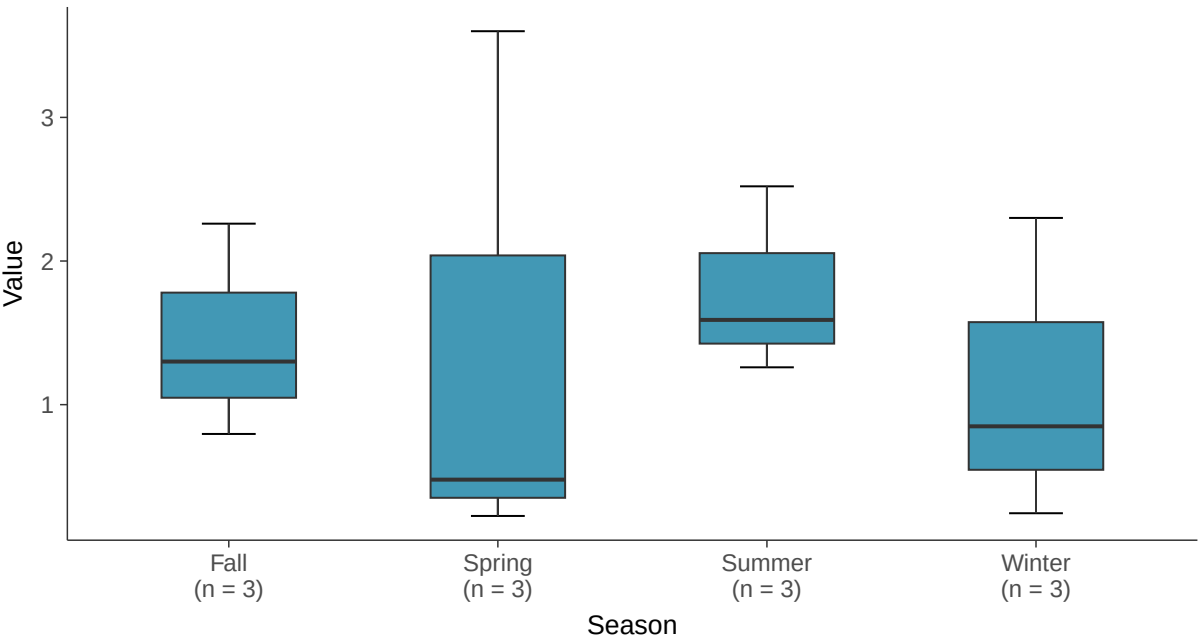
Boxplot

Radium-226+228, MW-16C (pci/l)



Boxplot by Season

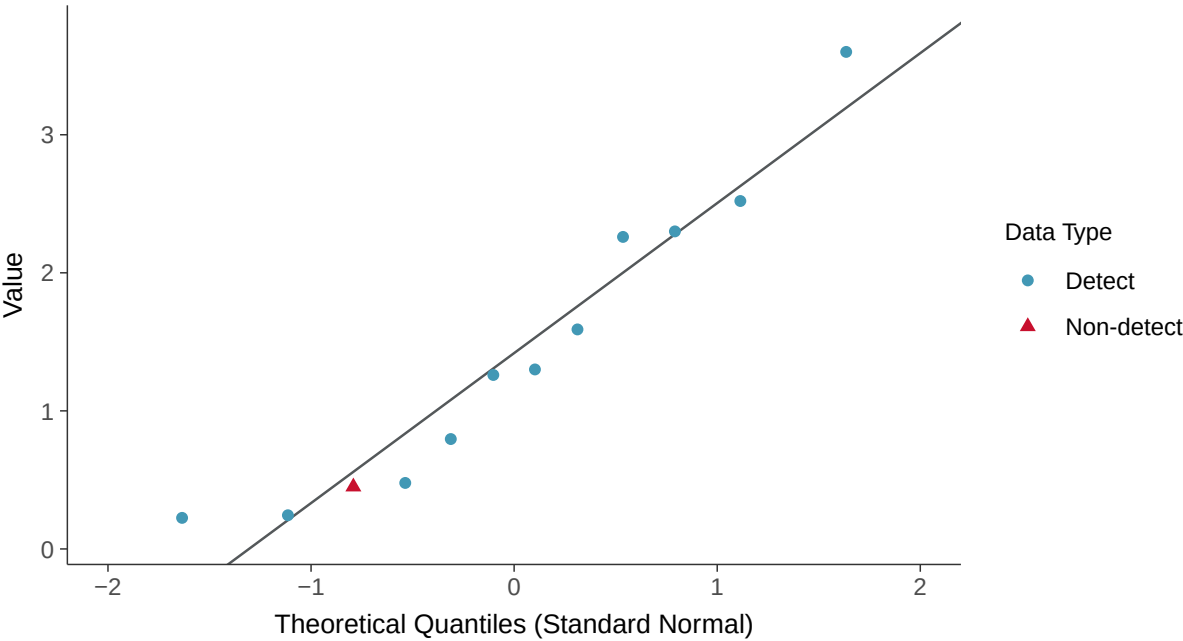
Radium-226+228, MW-16C (pci/l)





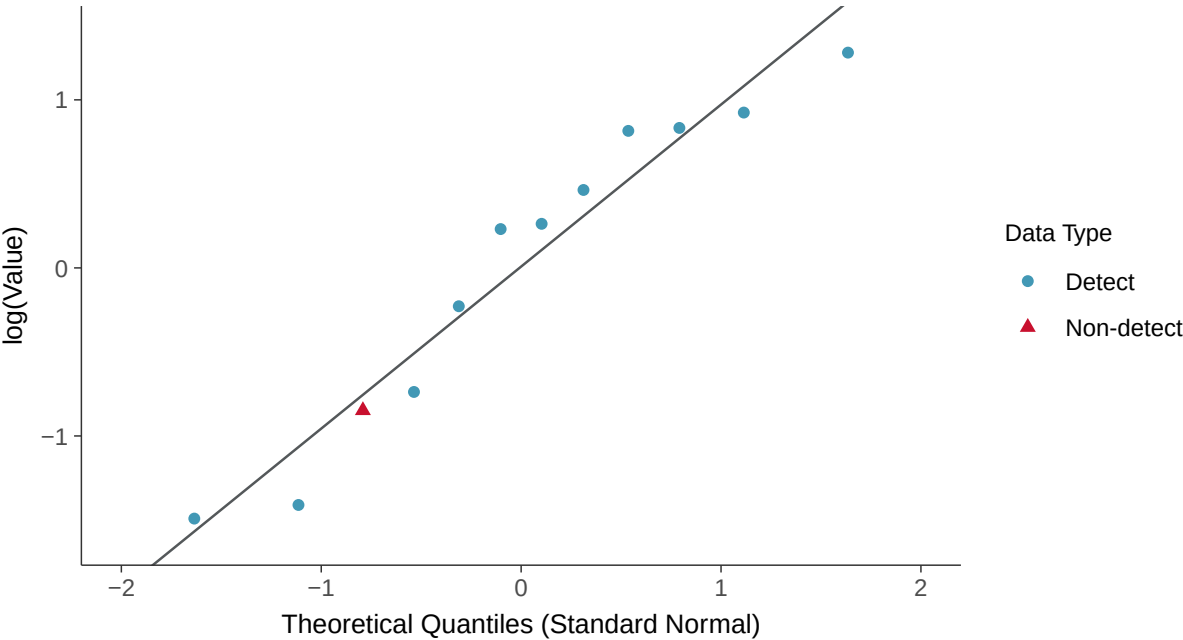
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-16C (pci/l)



Lognormal Q-Q plot using ROS Imputed Estimates

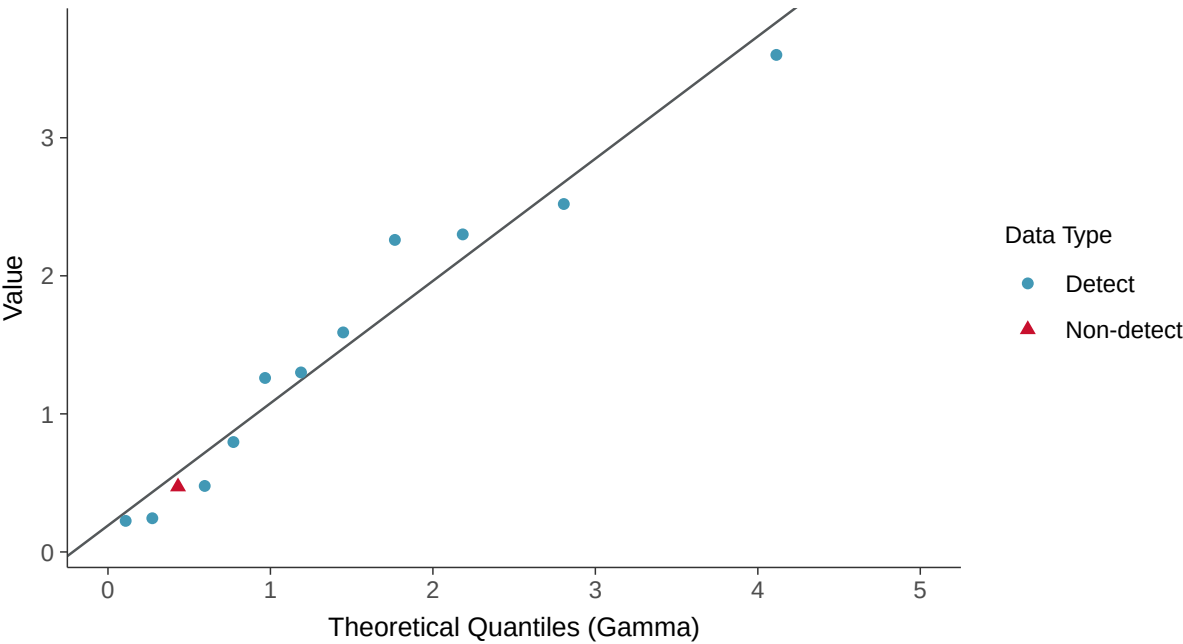
Radium-226+228, MW-16C (pci/l)





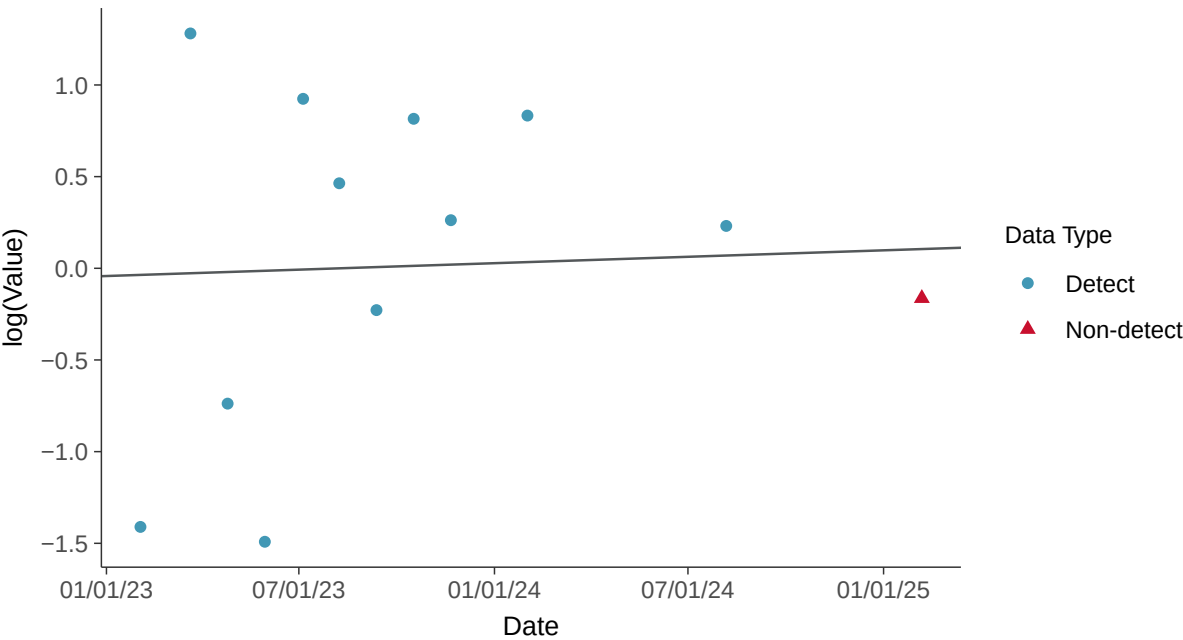
Gamma Q-Q plot using ROS Imputed Estimates

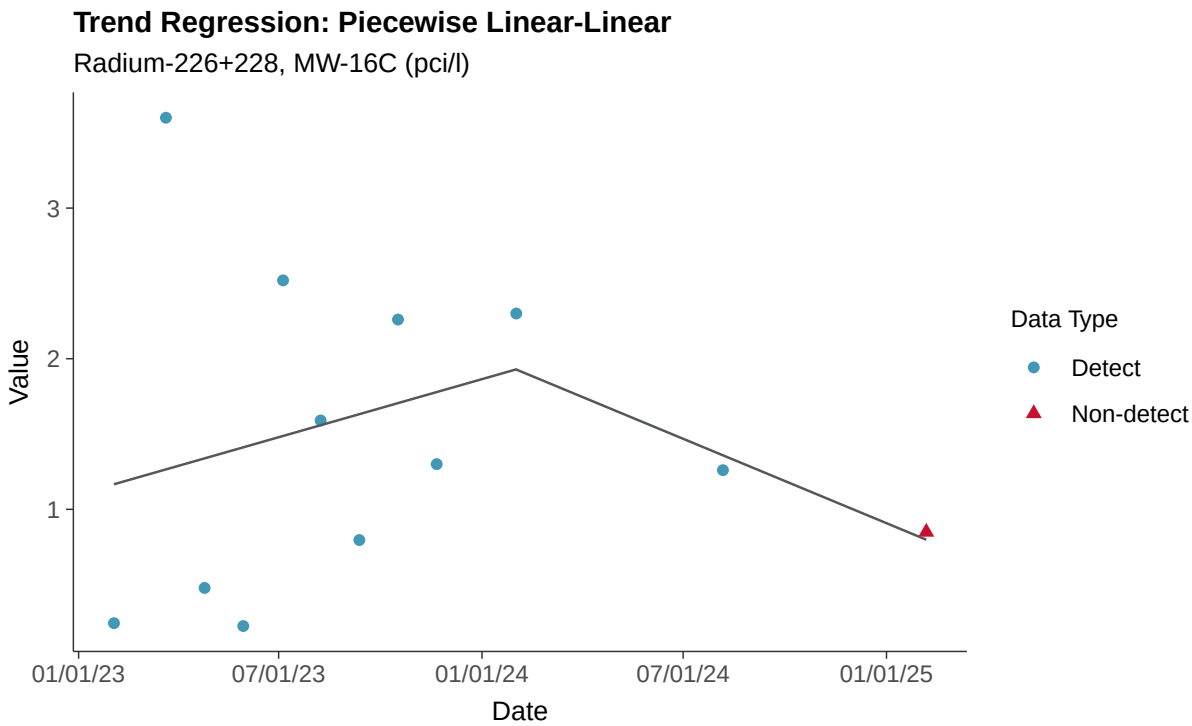
Radium-226+228, MW-16C (pci/l)



Trend Regression: Lognormal MLE

Radium-226+228, MW-16C (pci/l)

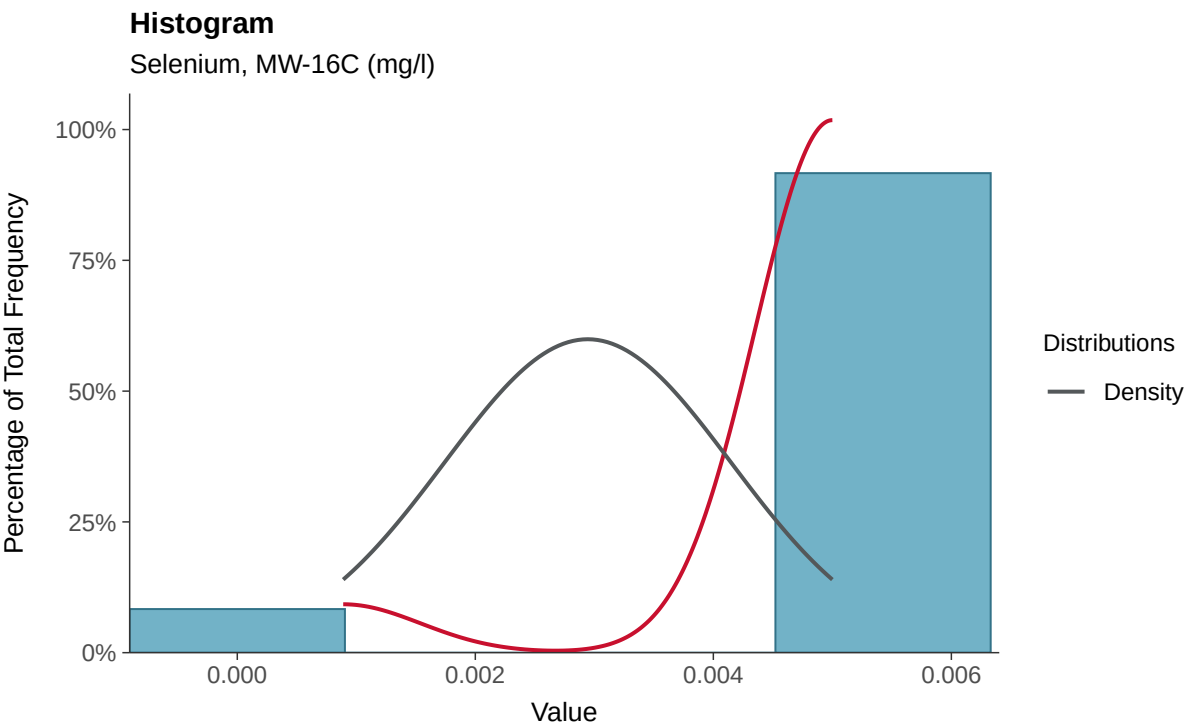
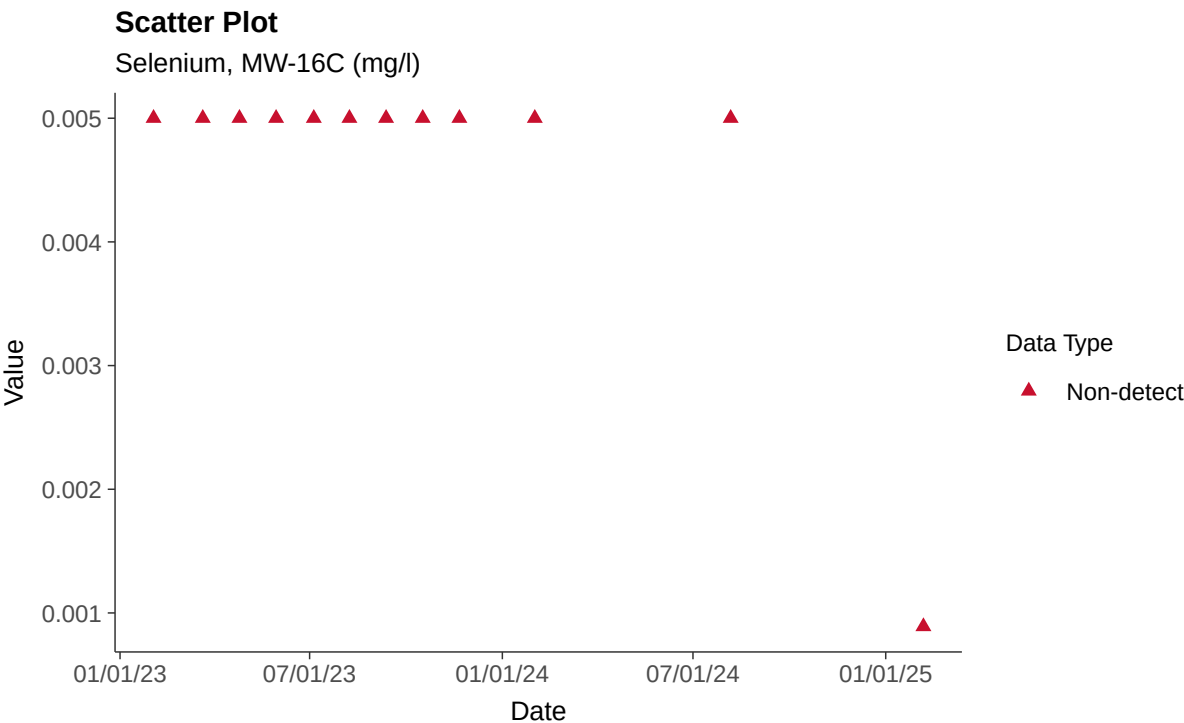


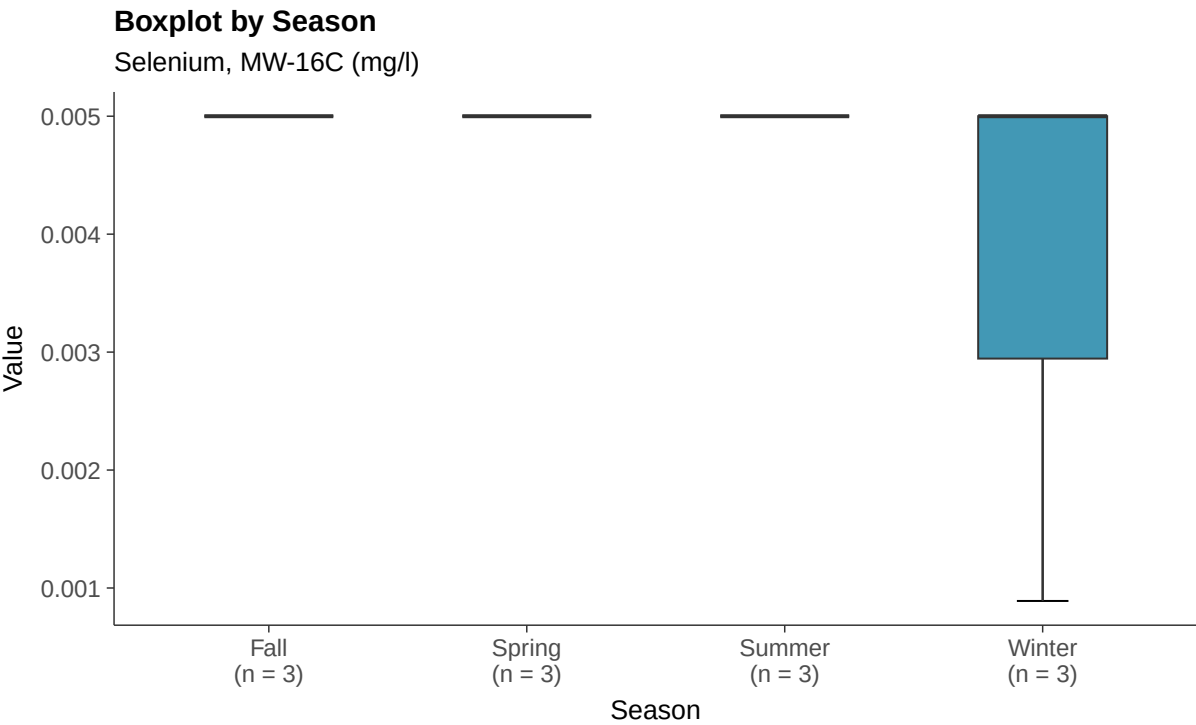
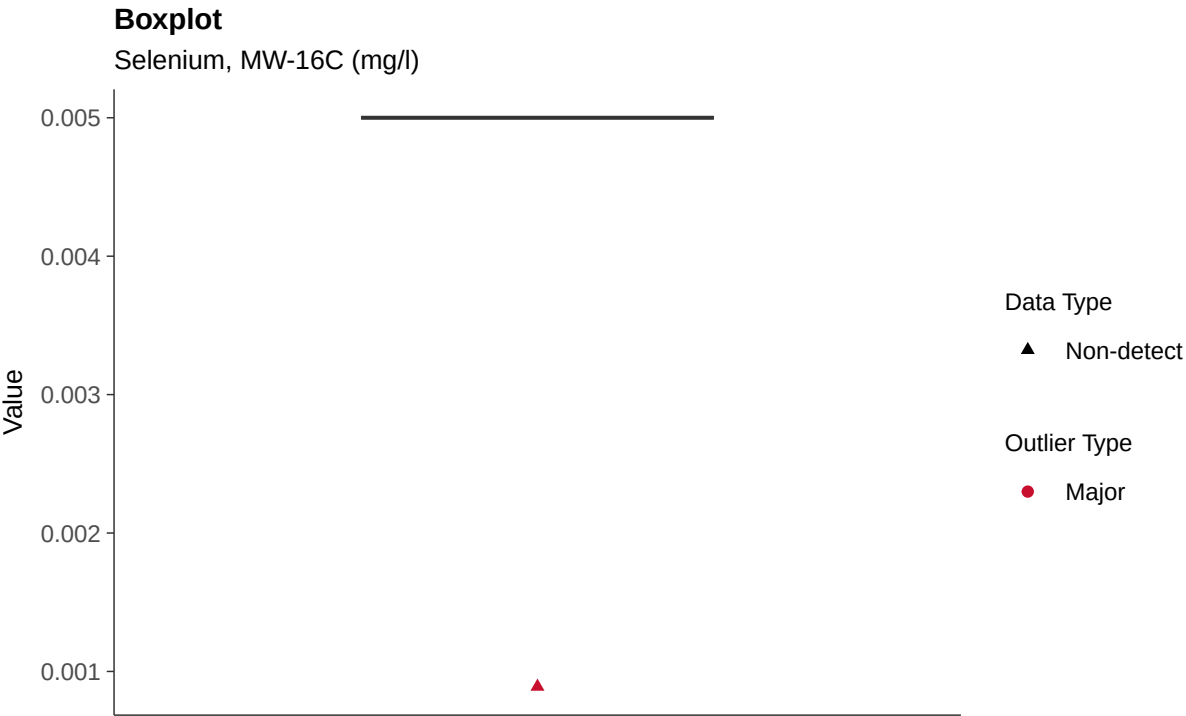




Appendix IV: Selenium, MW-16C

ID: 12_3_122

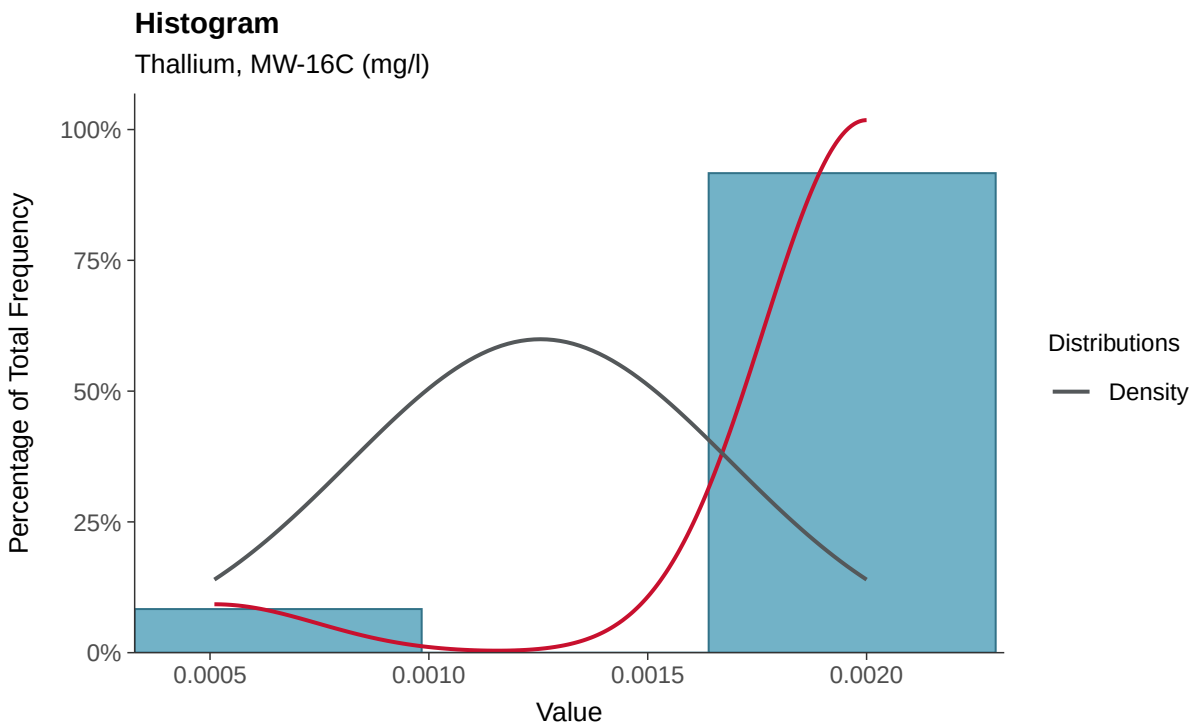
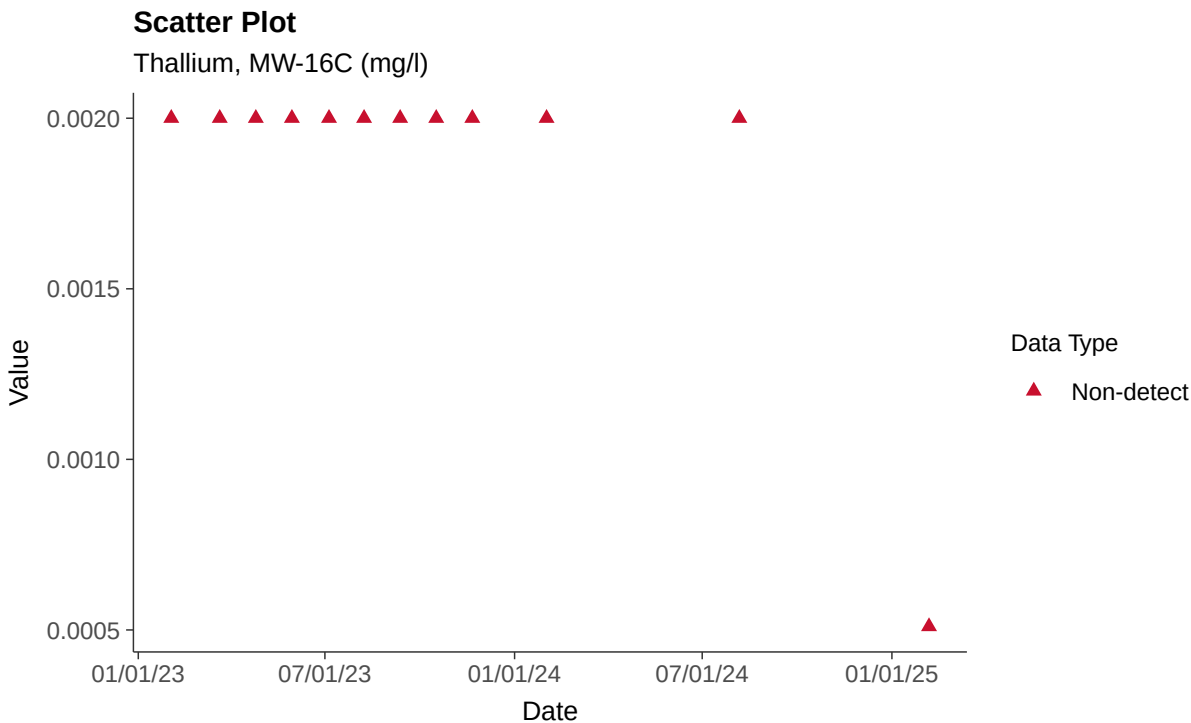


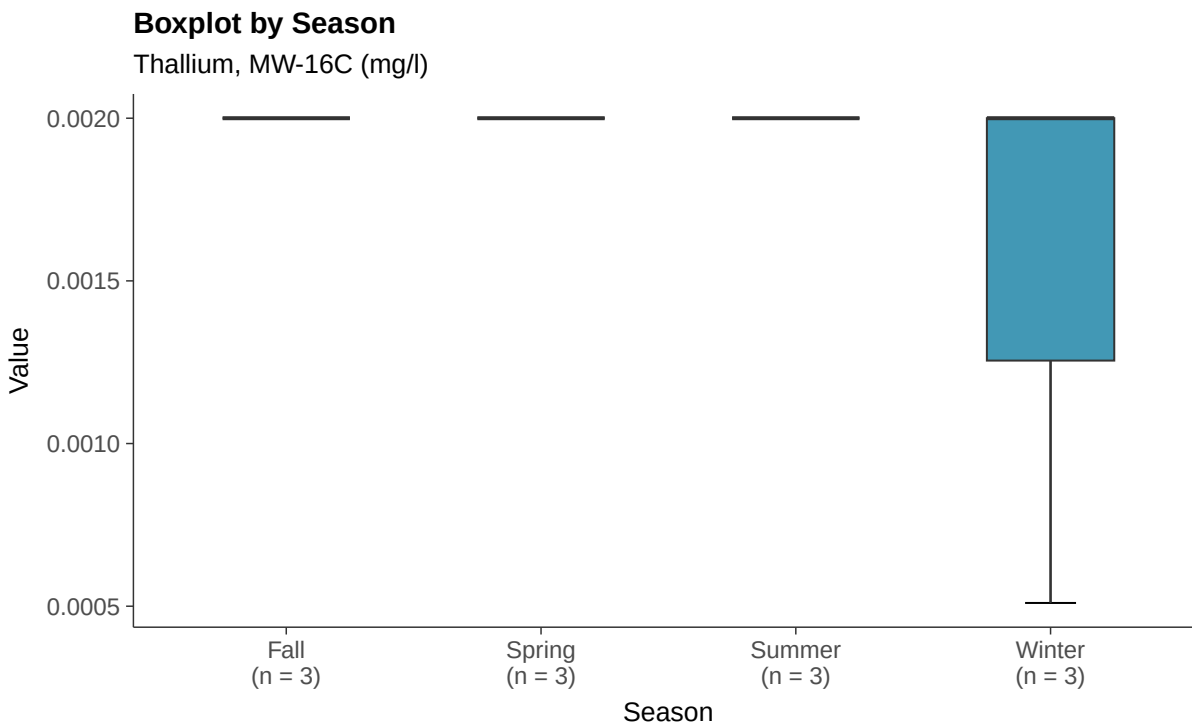
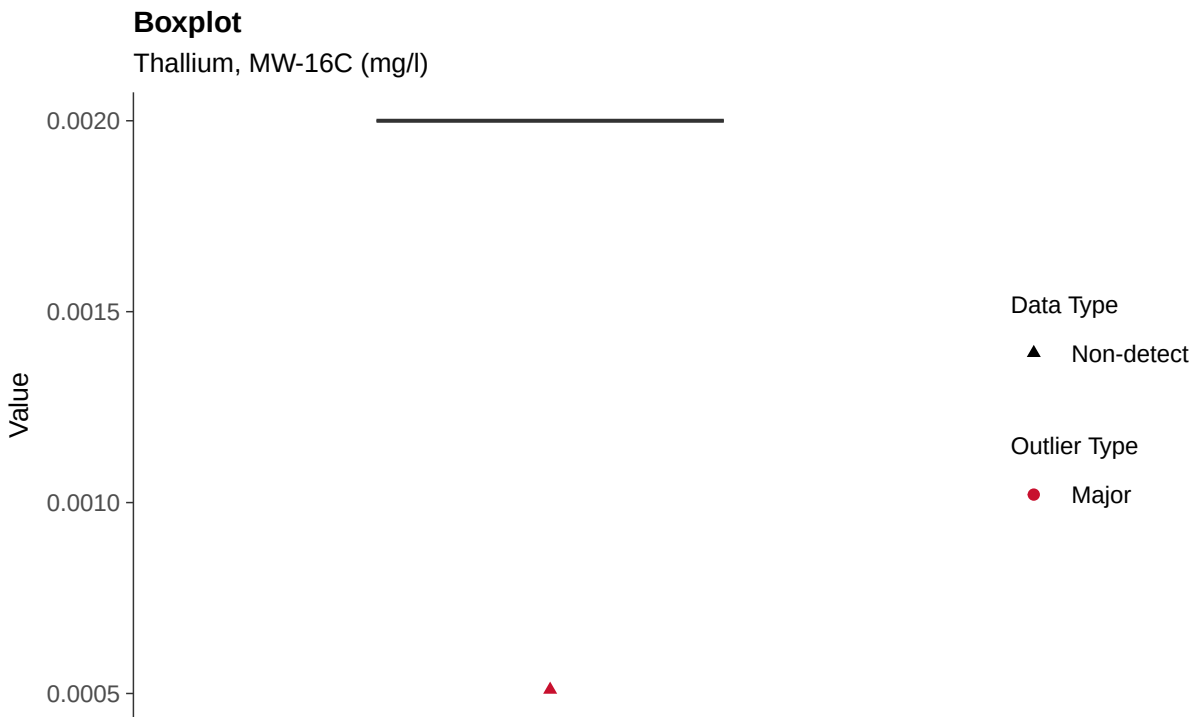




Appendix IV: Thallium, MW-16C

ID: 12_3_125

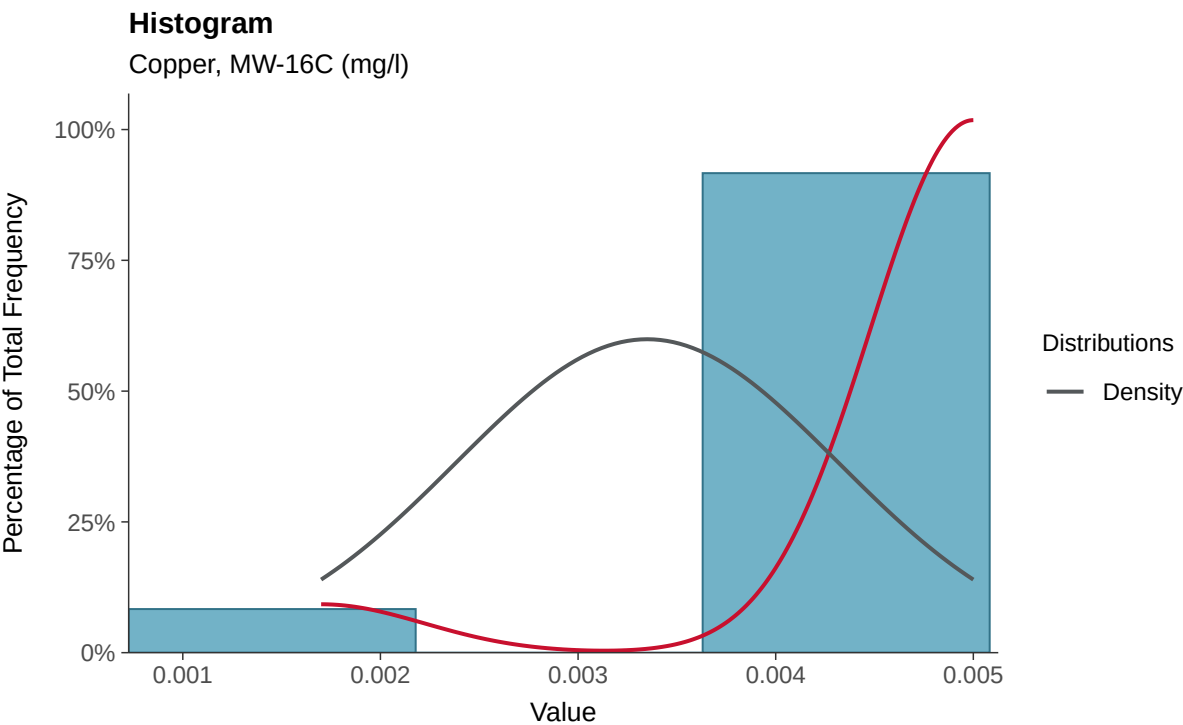
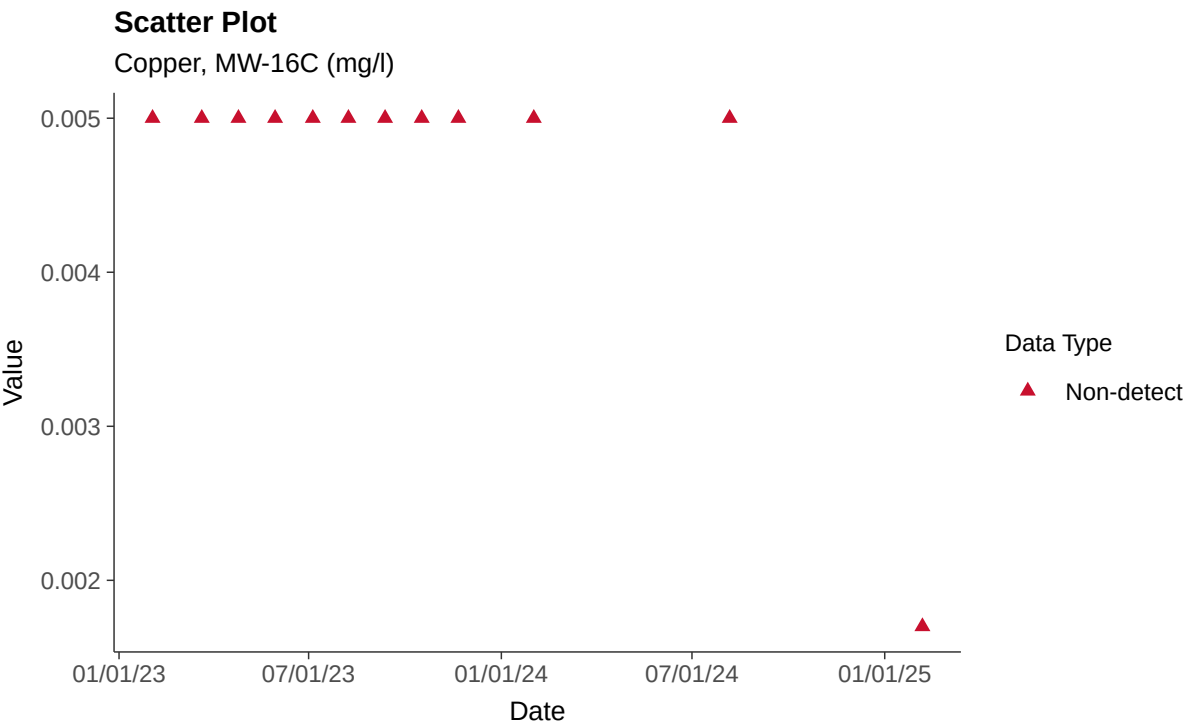


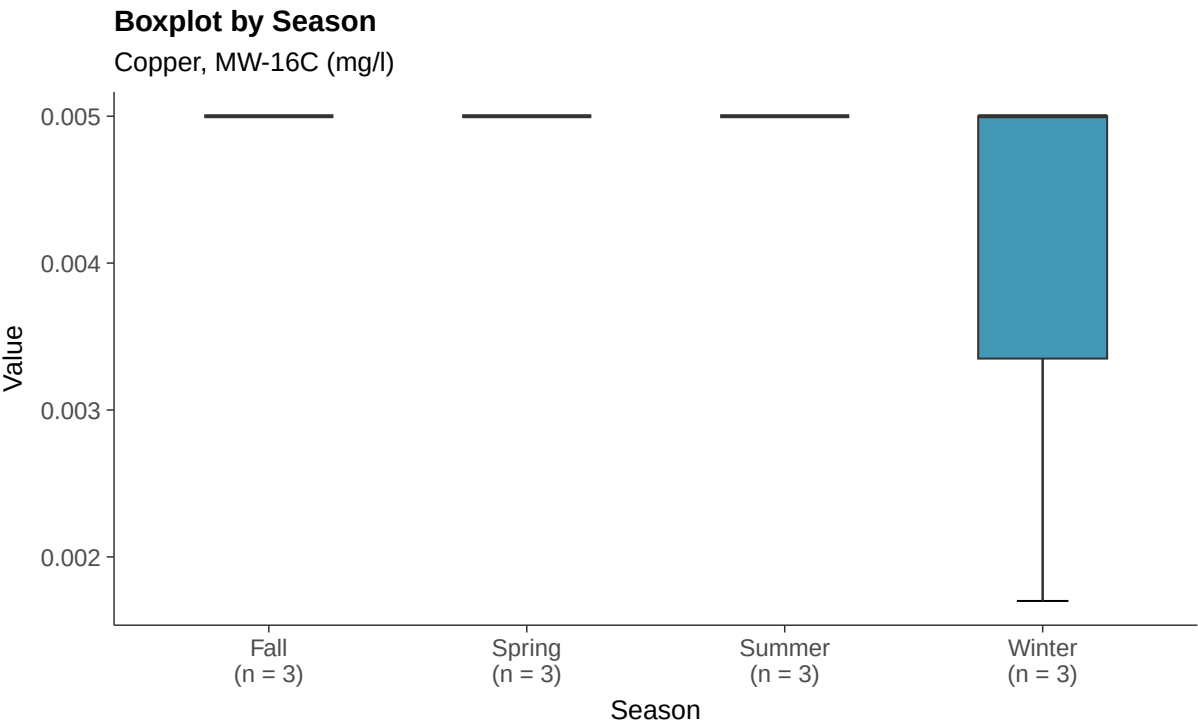
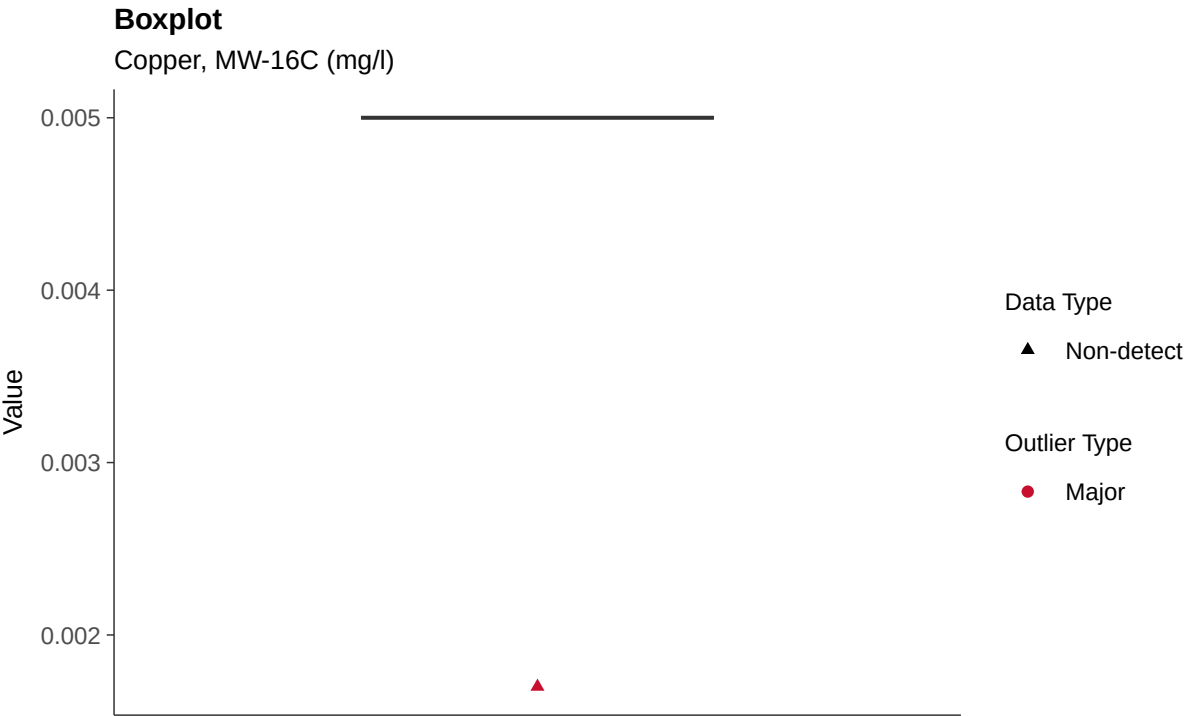




Part 115: Copper, MW-16C

ID: 12_5_111

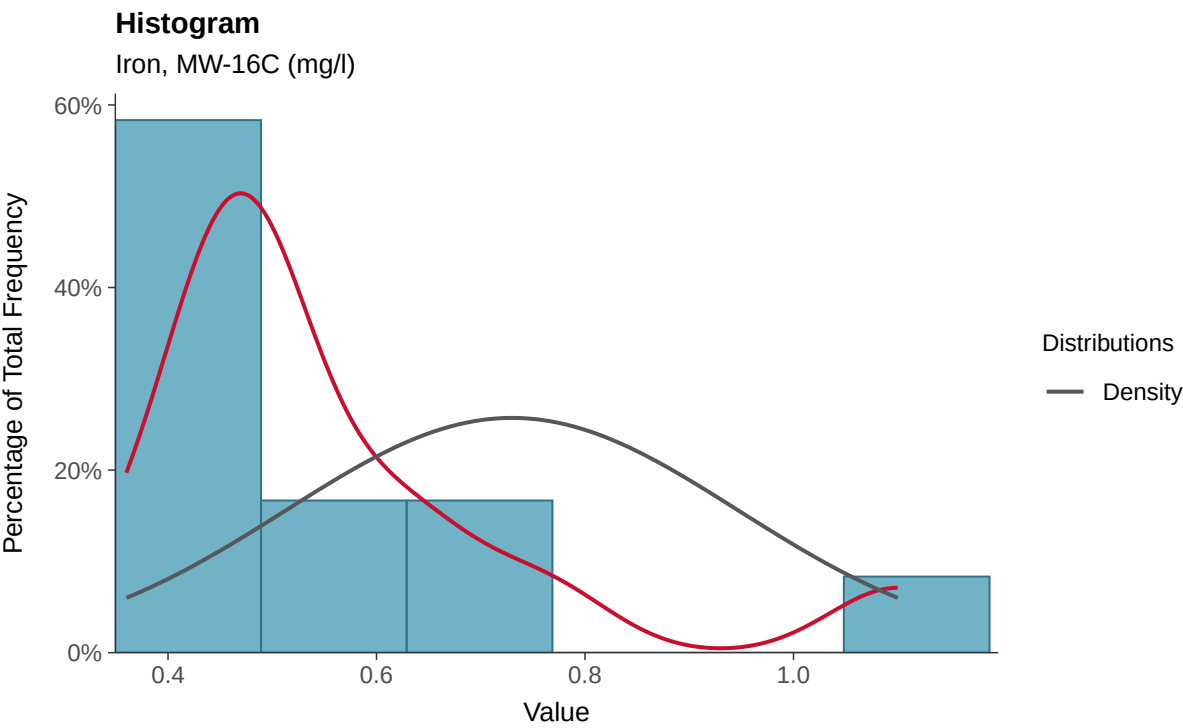
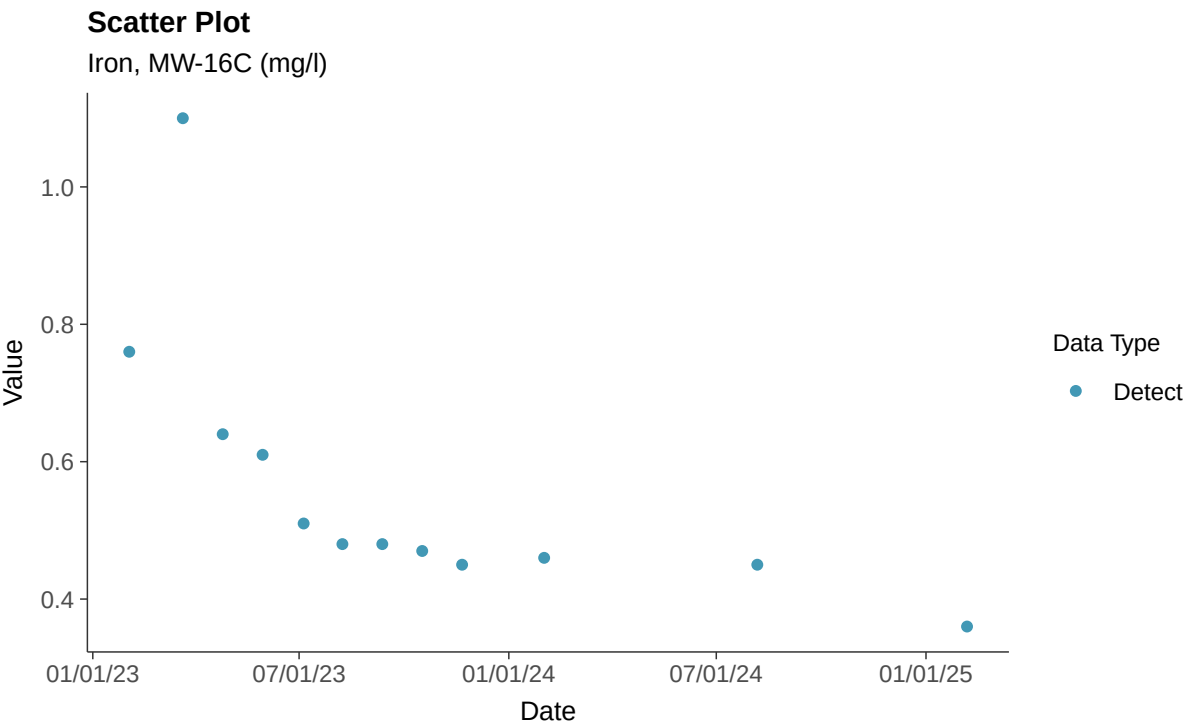


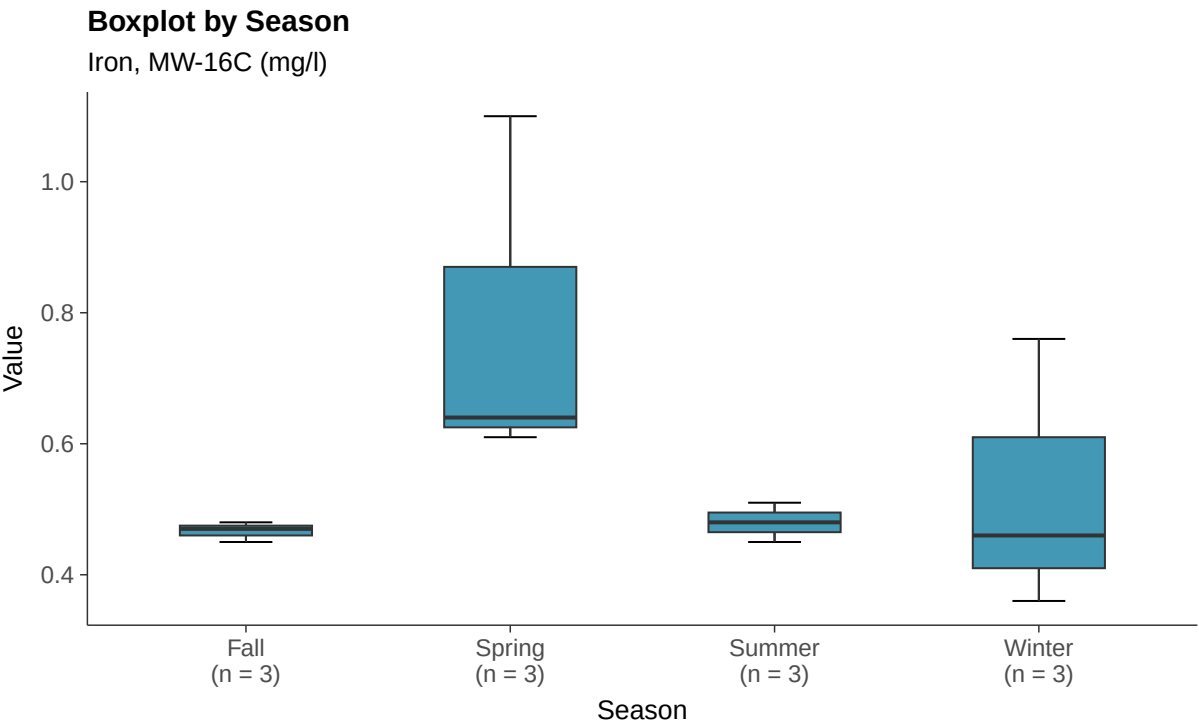
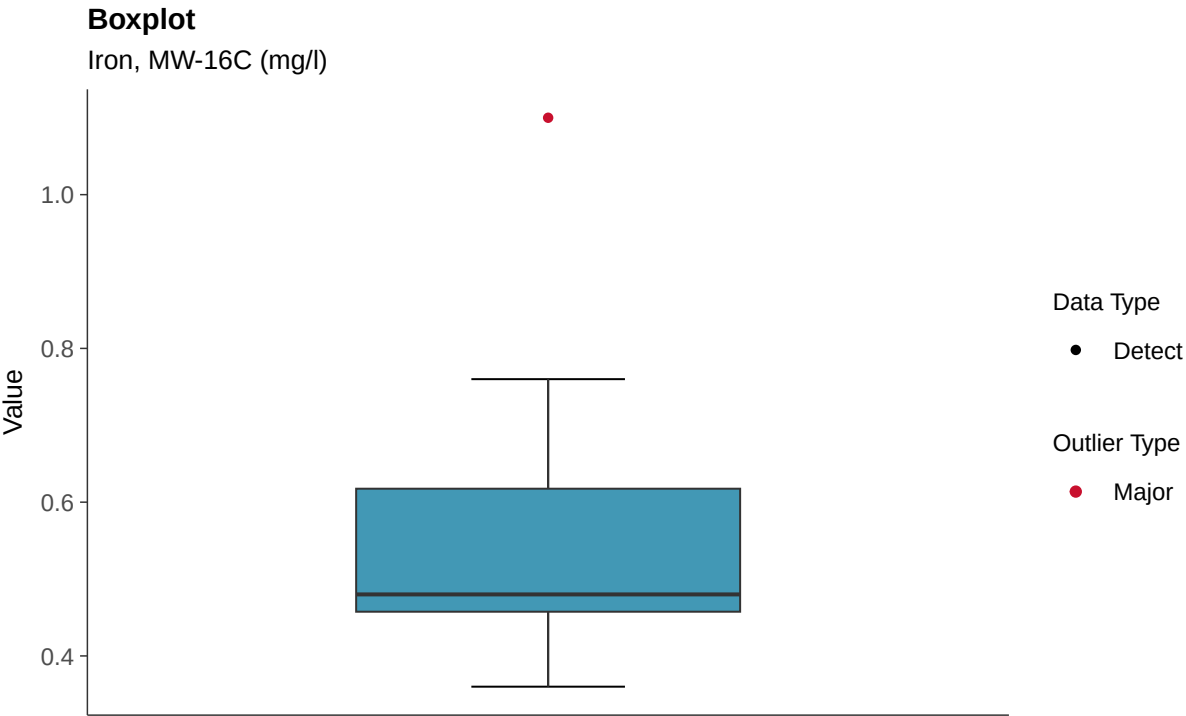


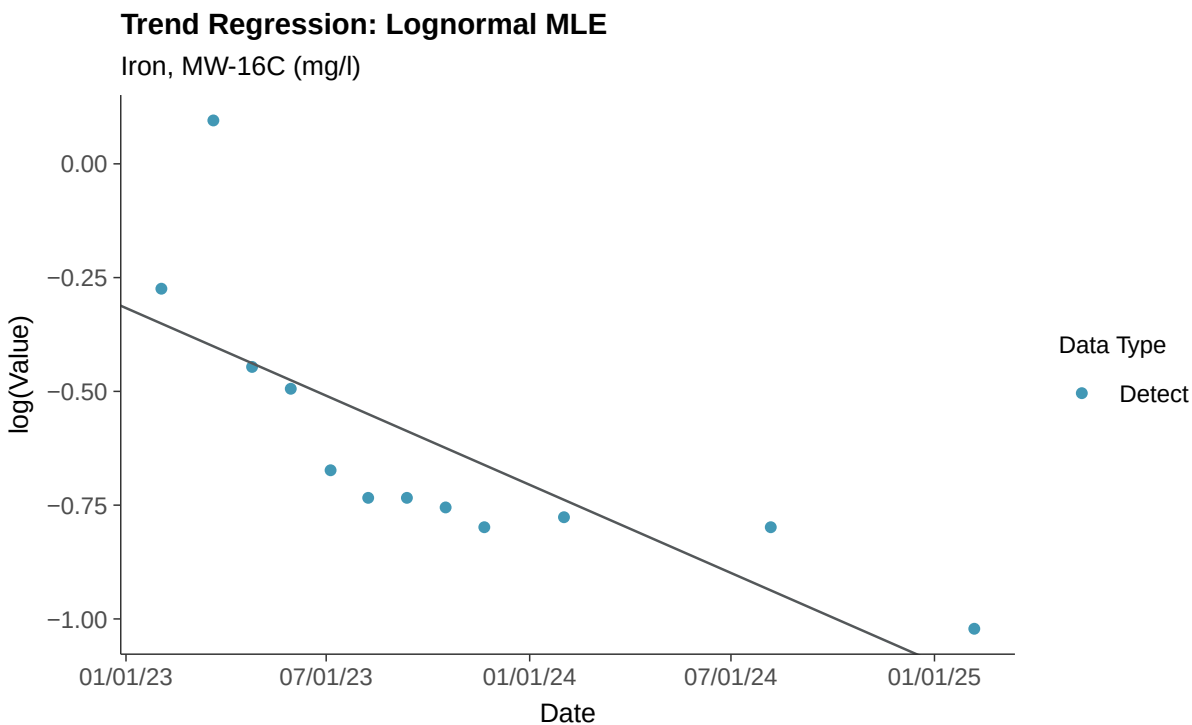
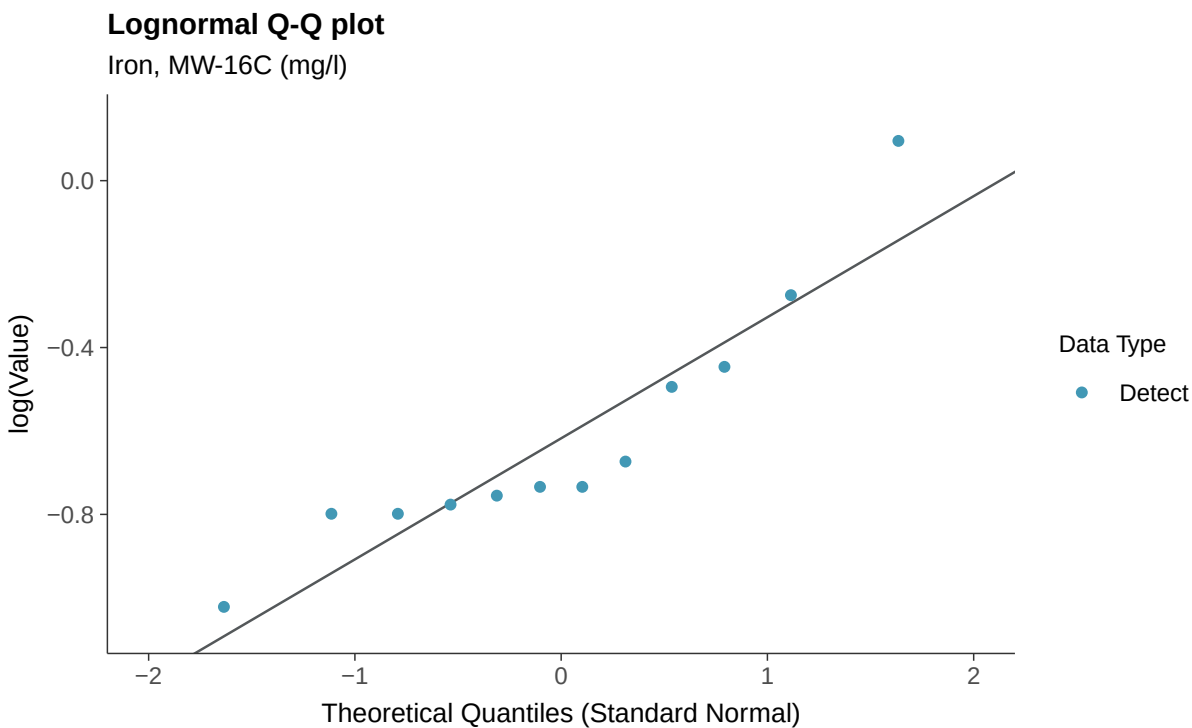


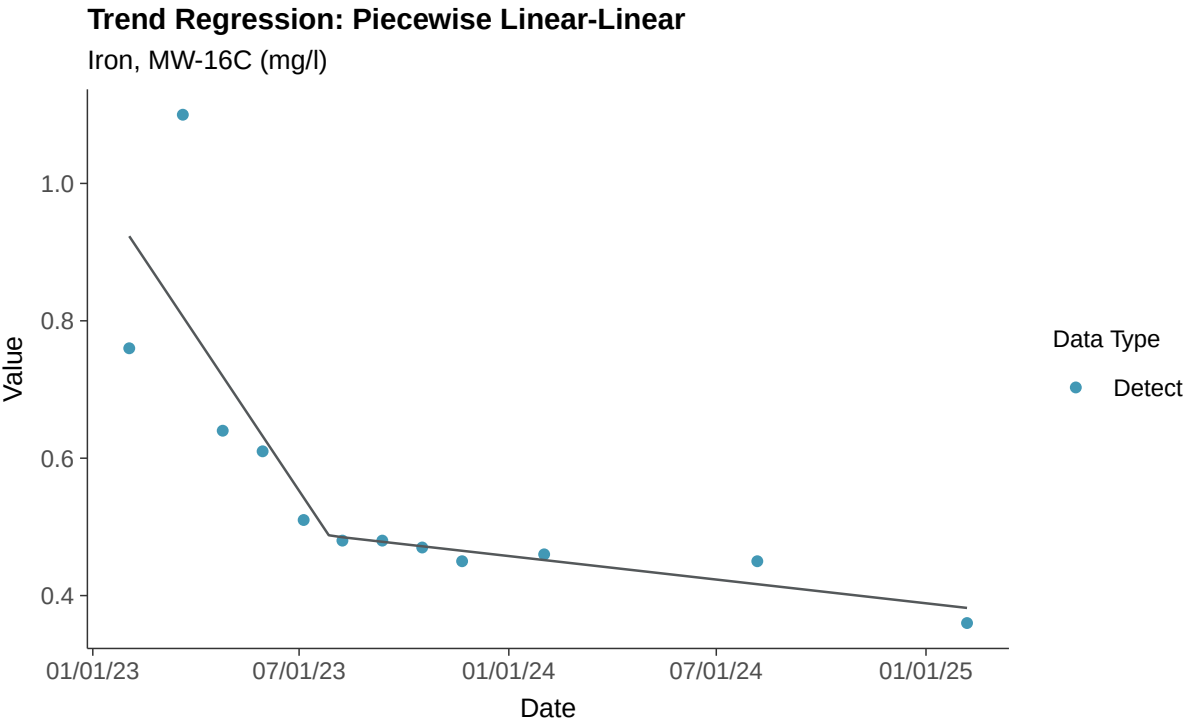
Part 115: Iron, MW-16C

ID: 12_5_114





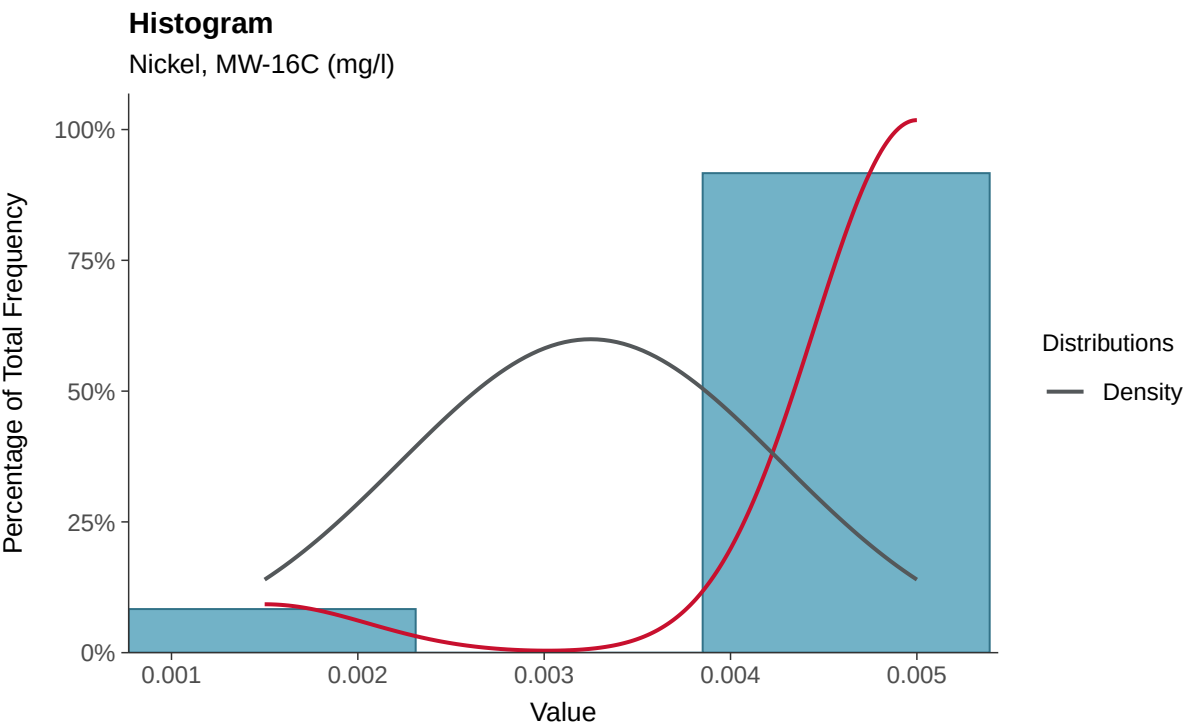
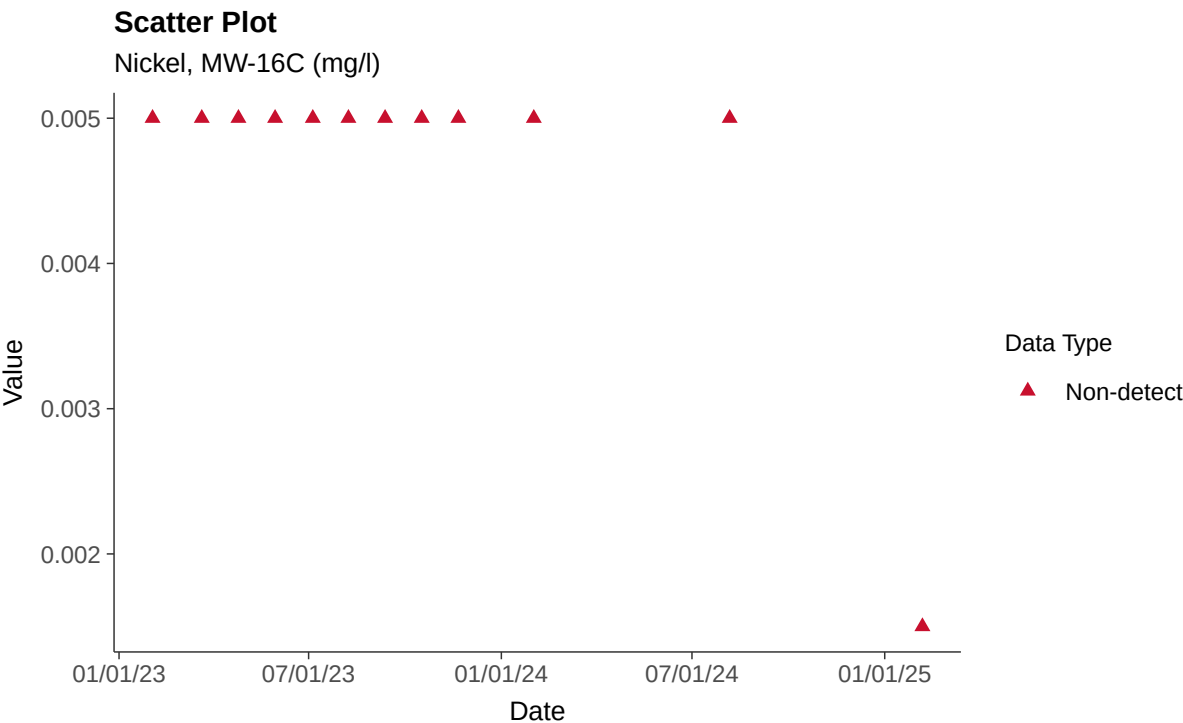


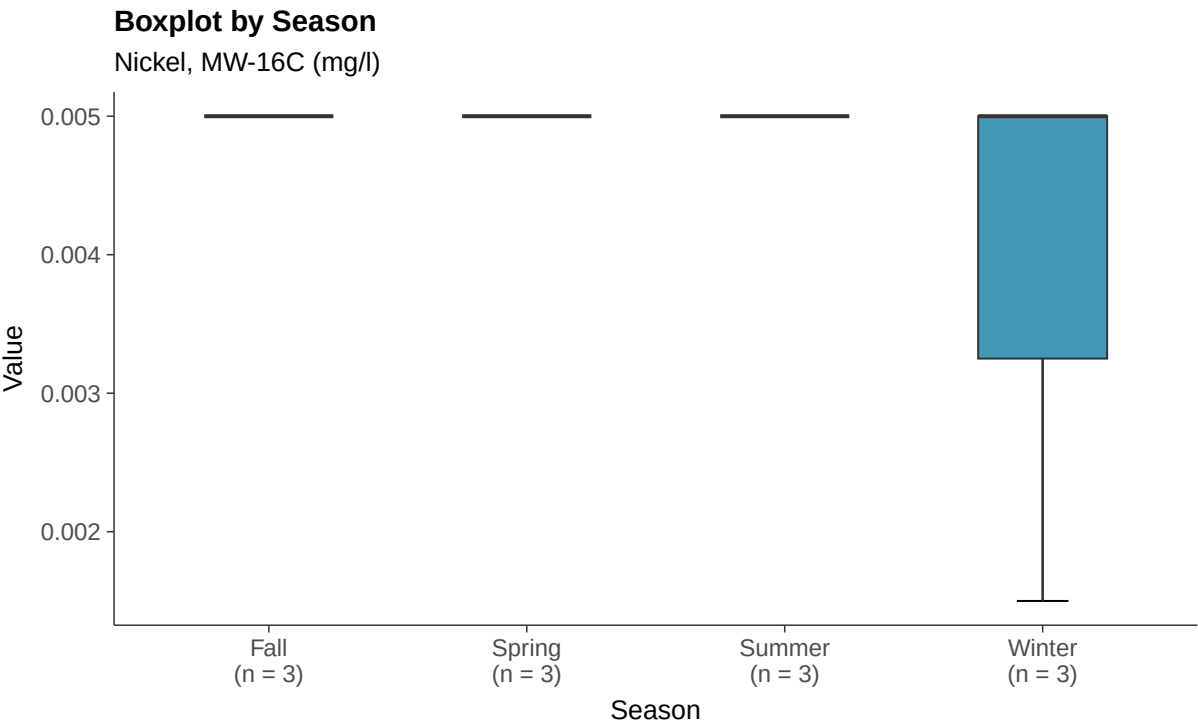
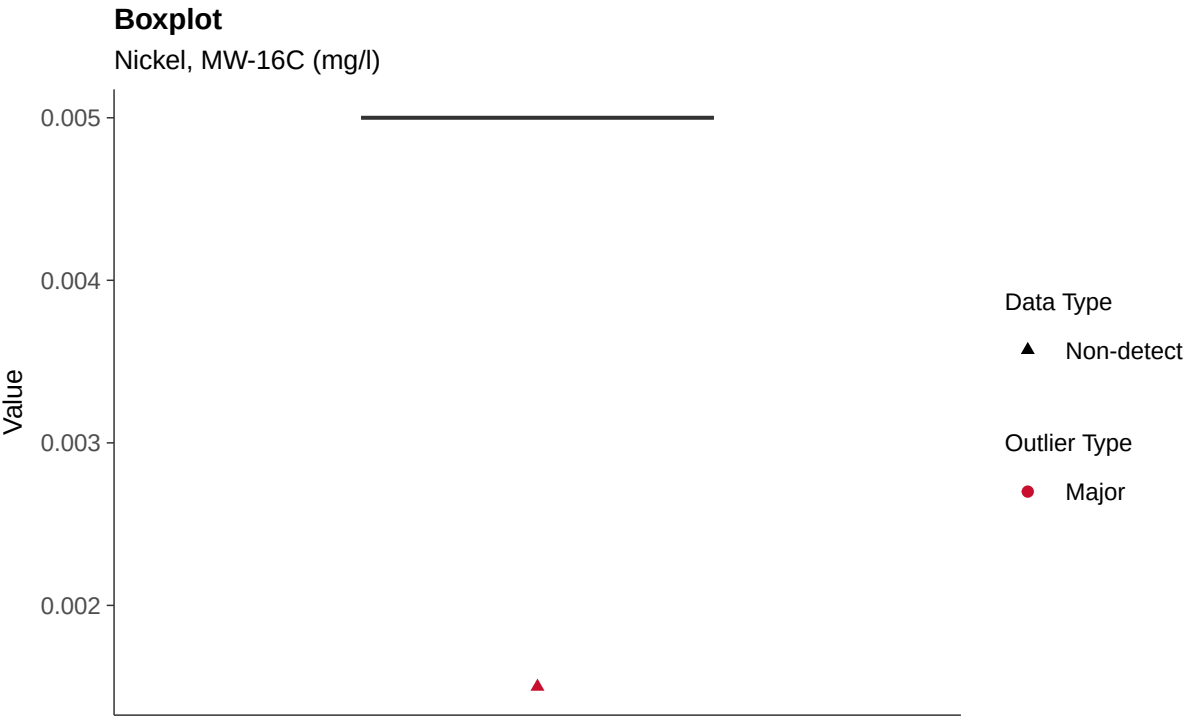




Part 115: Nickel, MW-16C

ID: 12_5_119

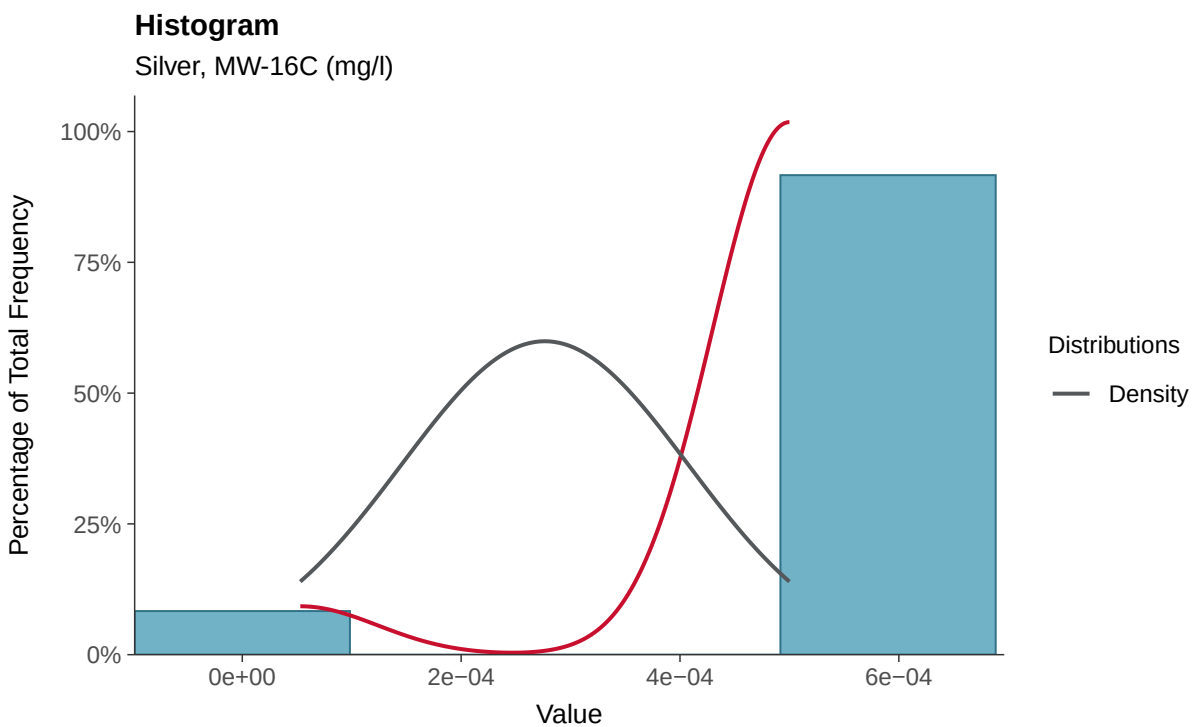
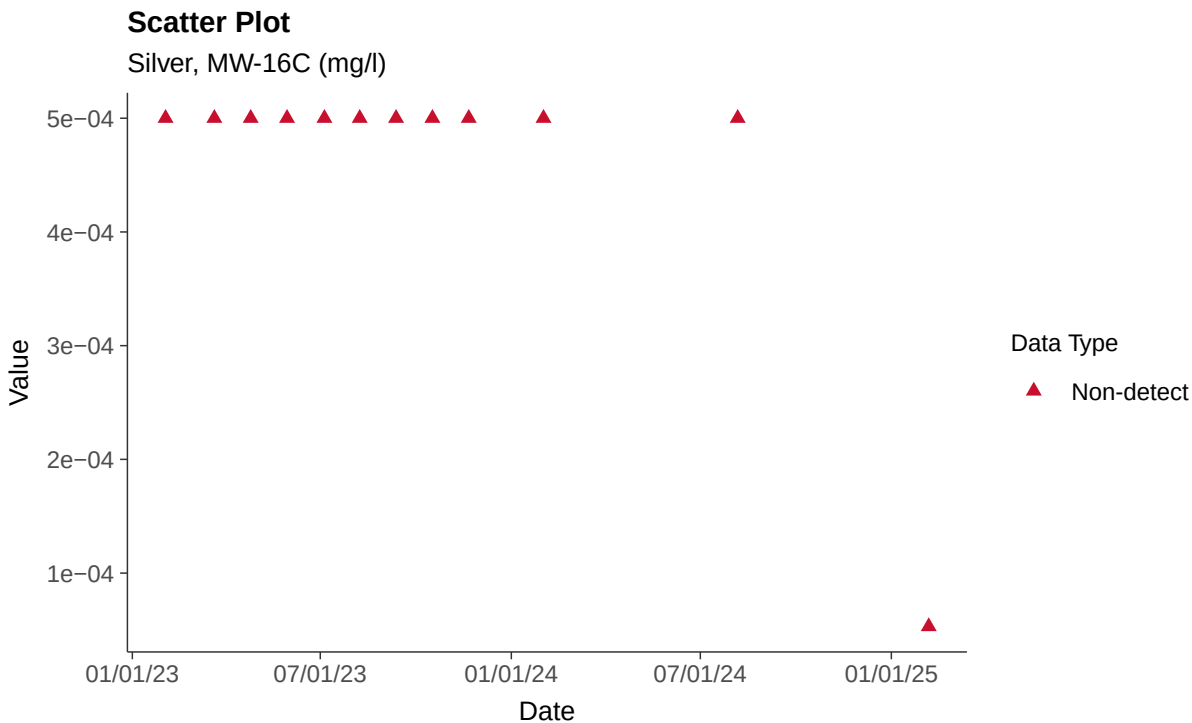


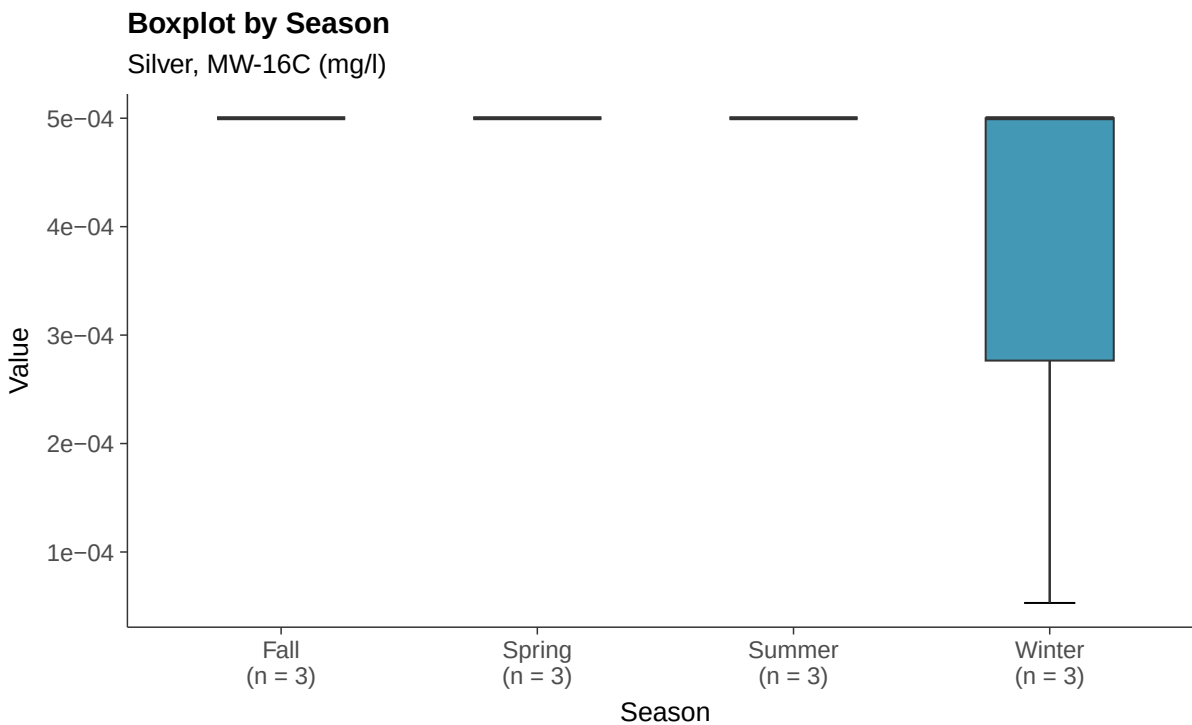
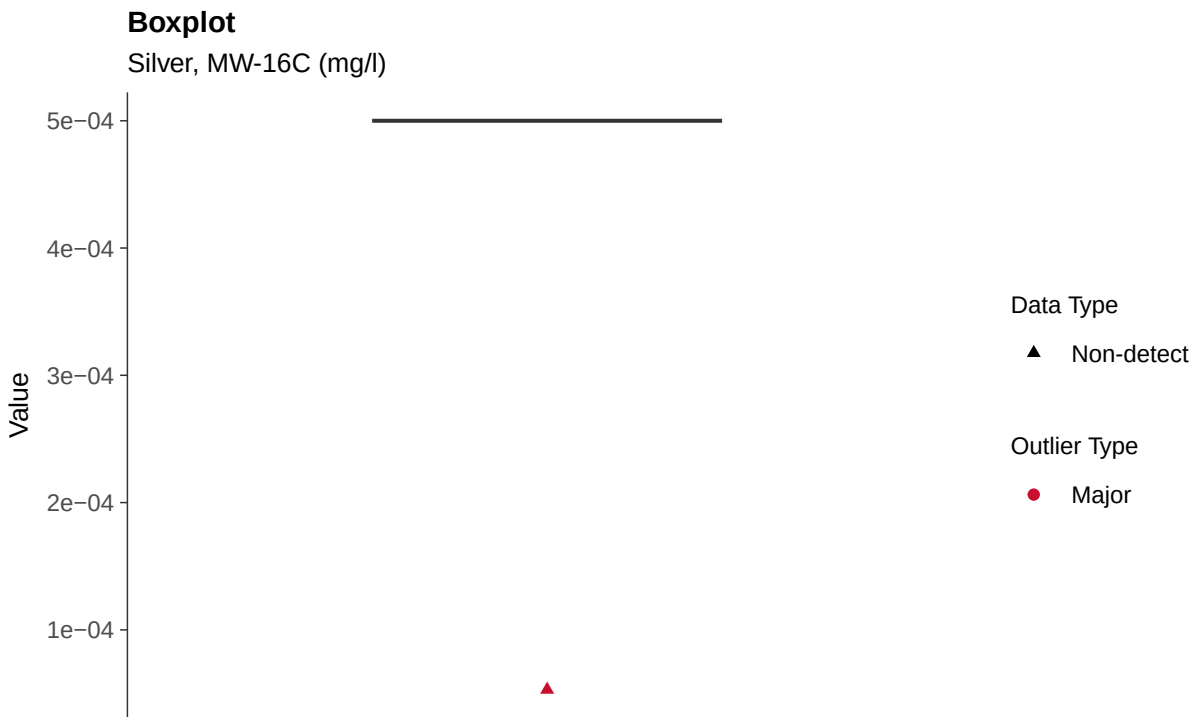




Part 115: Silver, MW-16C

ID: 12_5_123

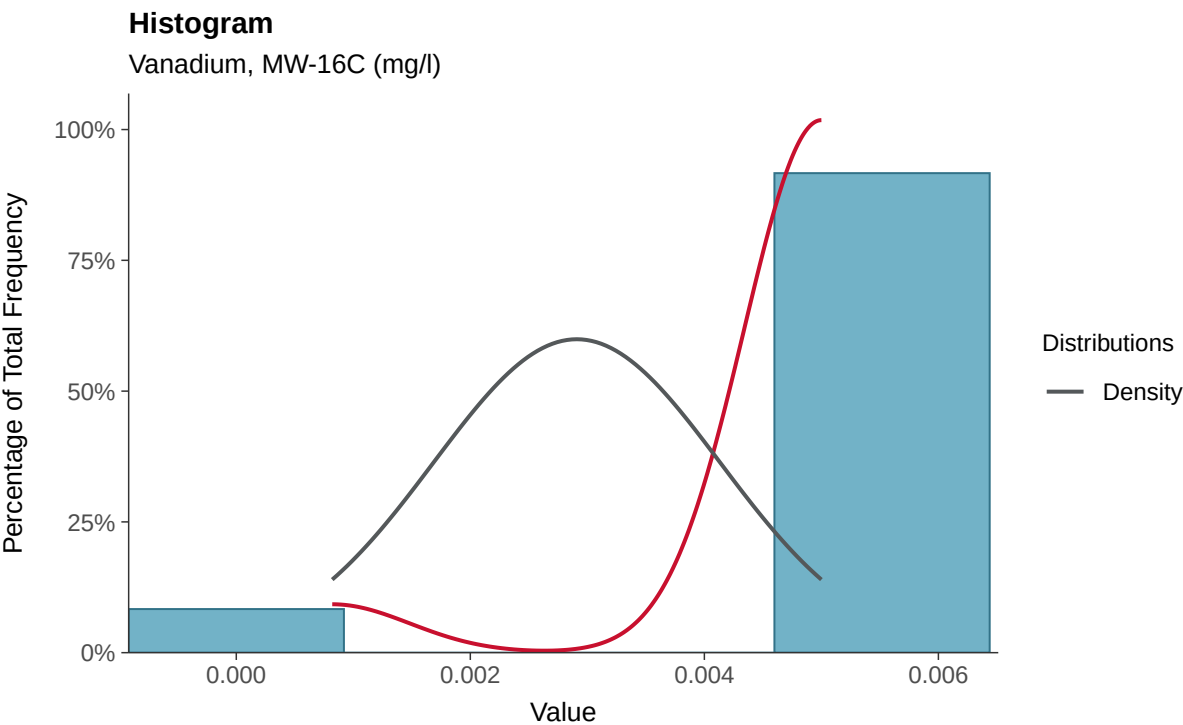
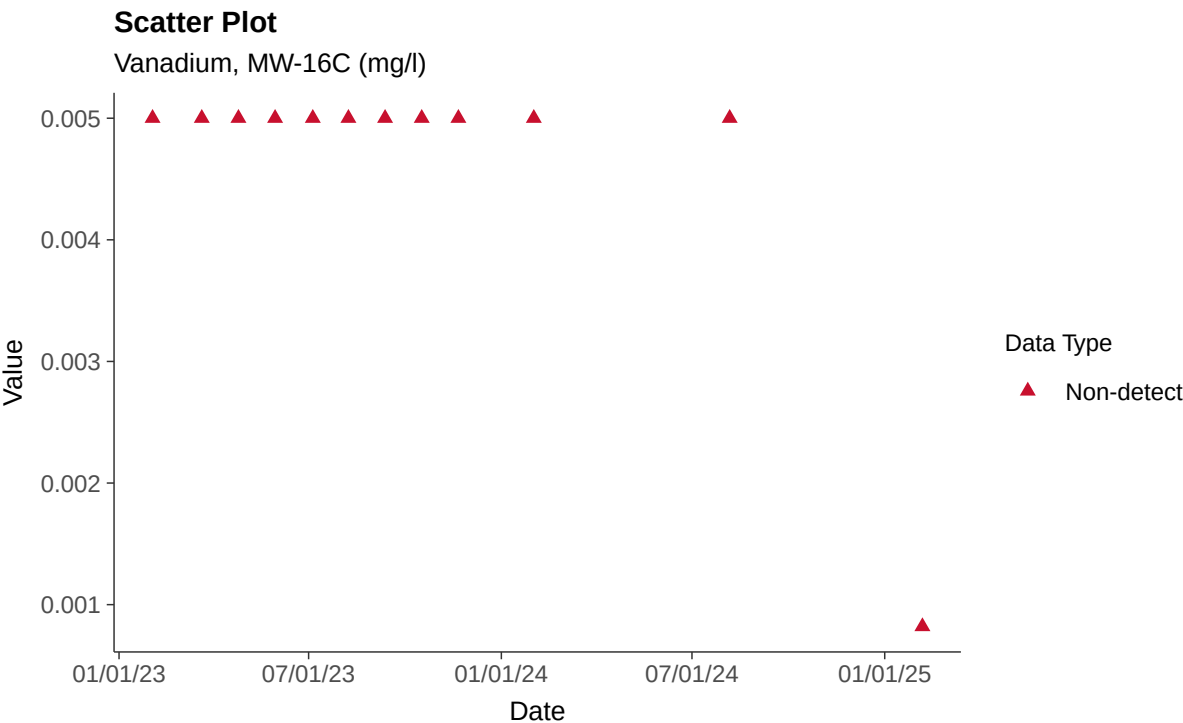


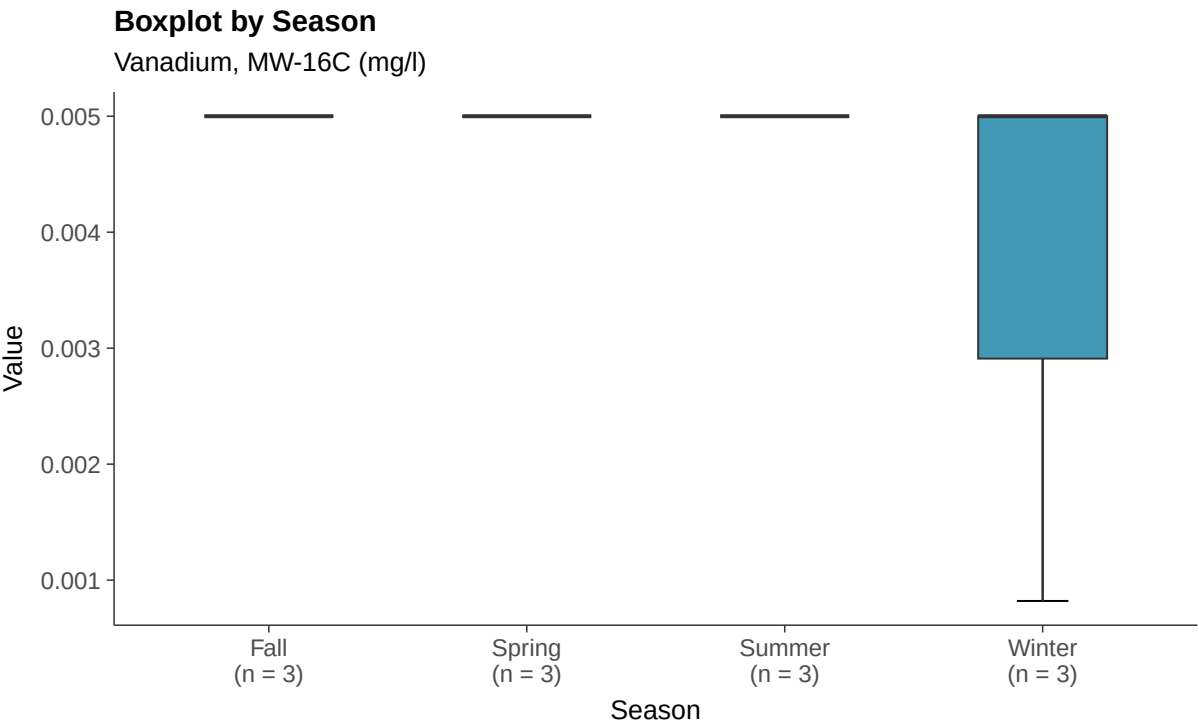
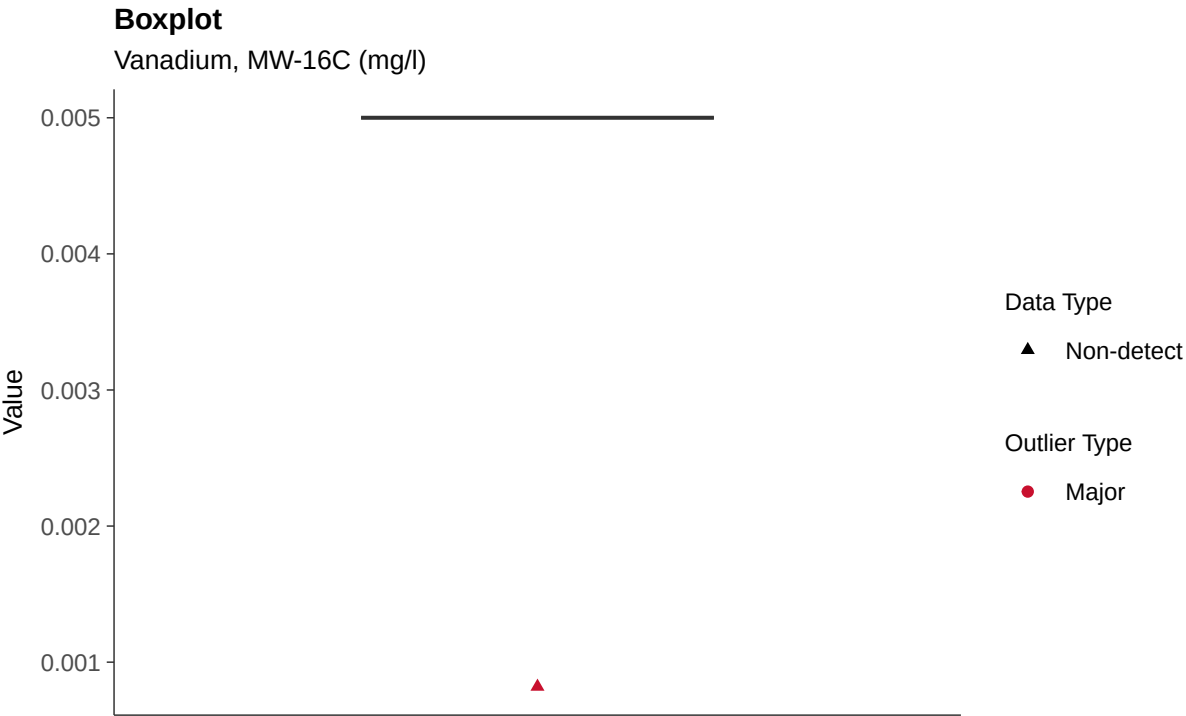




Part 115: Vanadium, MW-16C

ID: 12_5_128

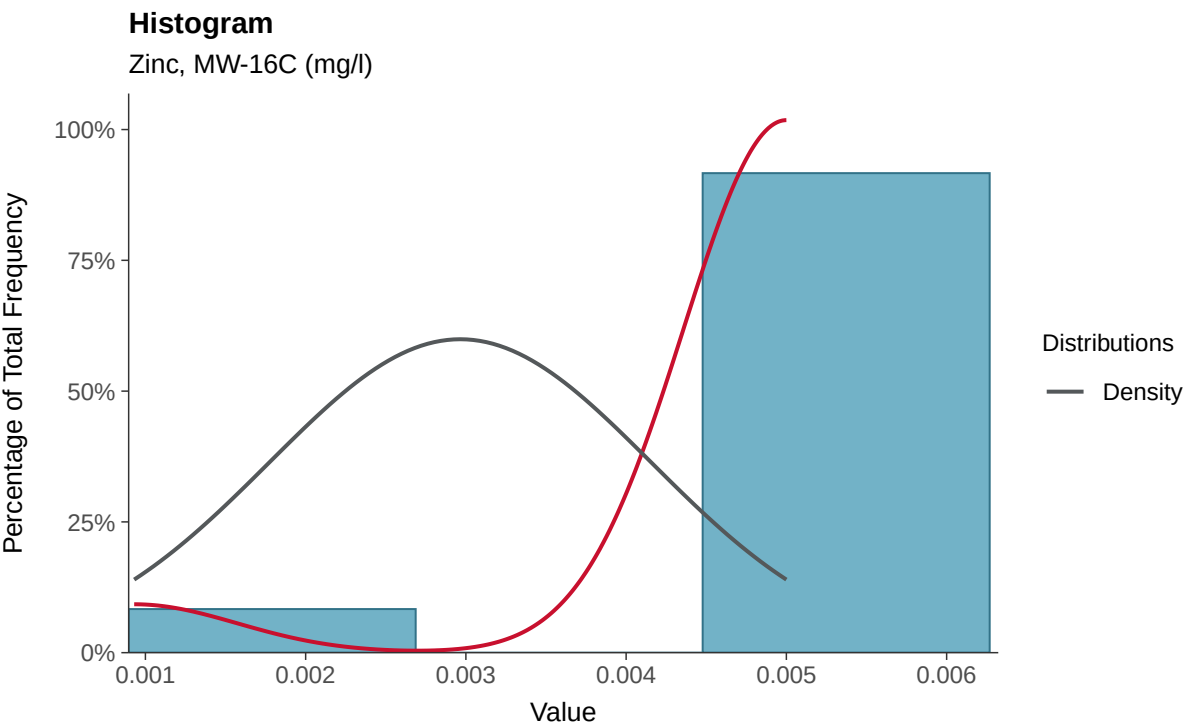
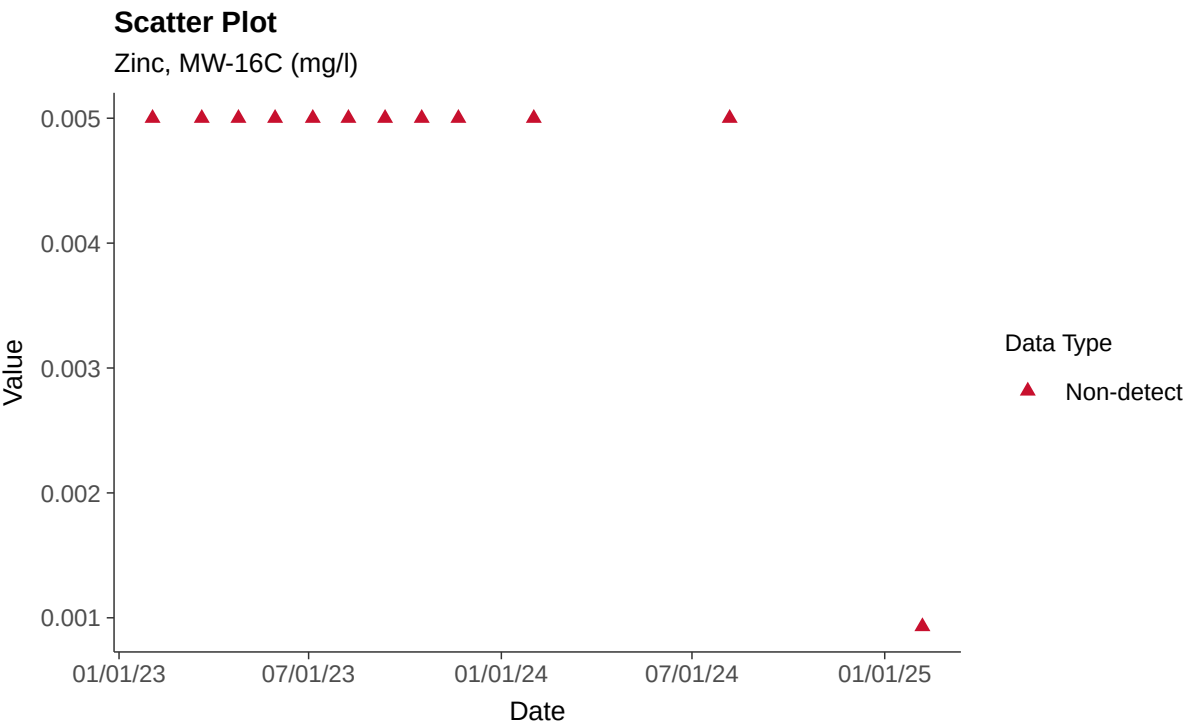


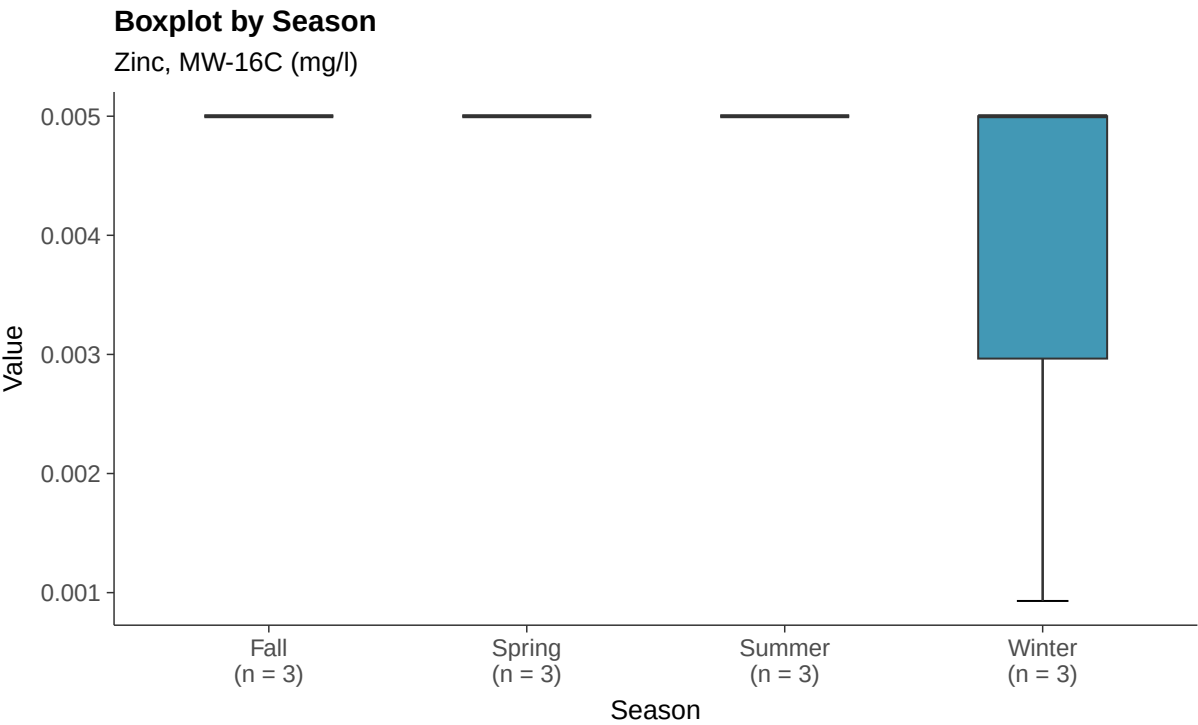
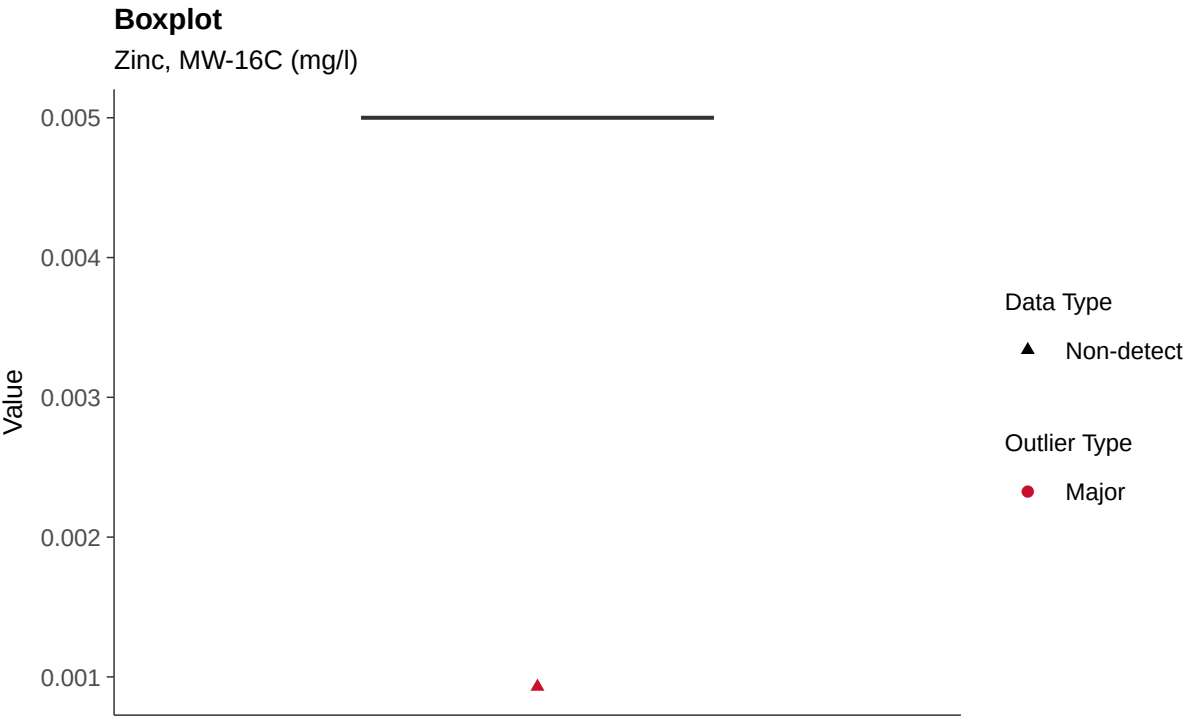




Part 115: Zinc, MW-16C

ID: 12_5_129

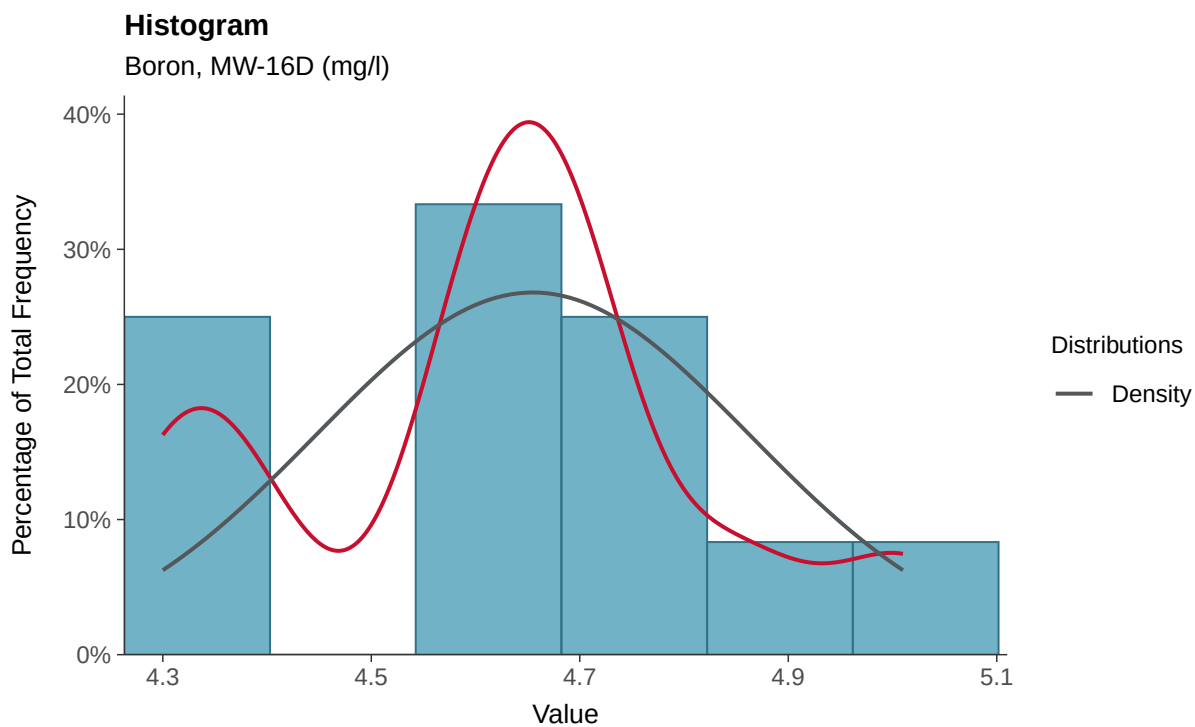
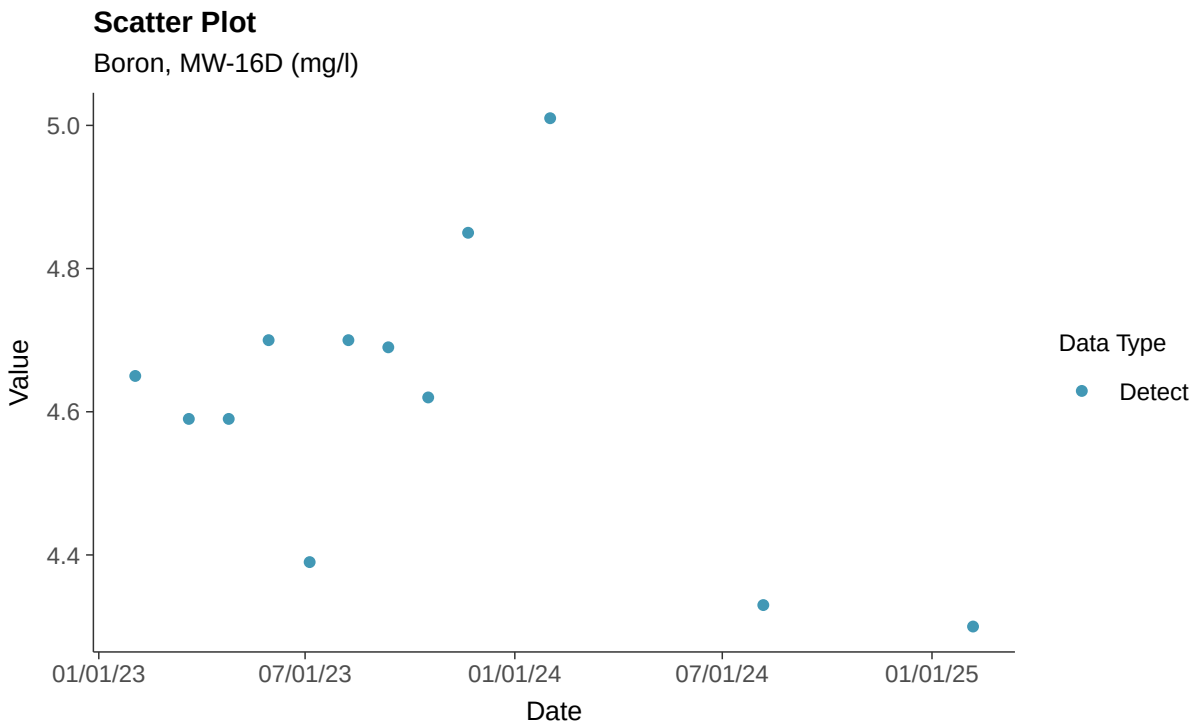


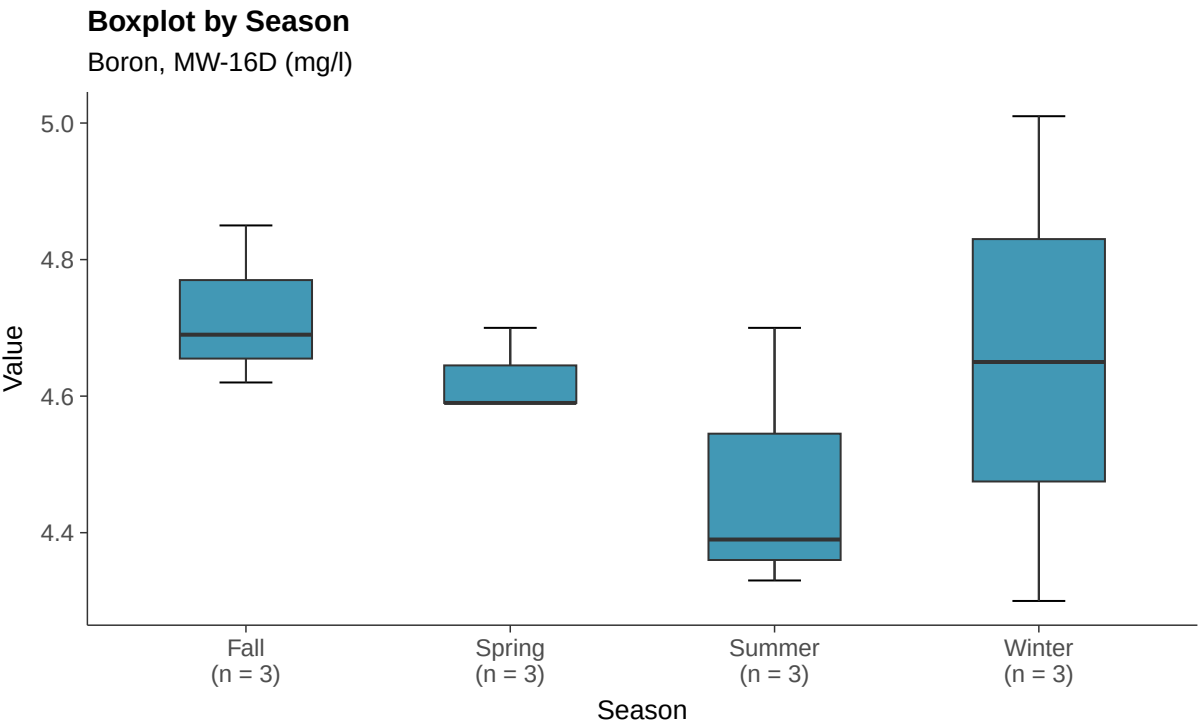
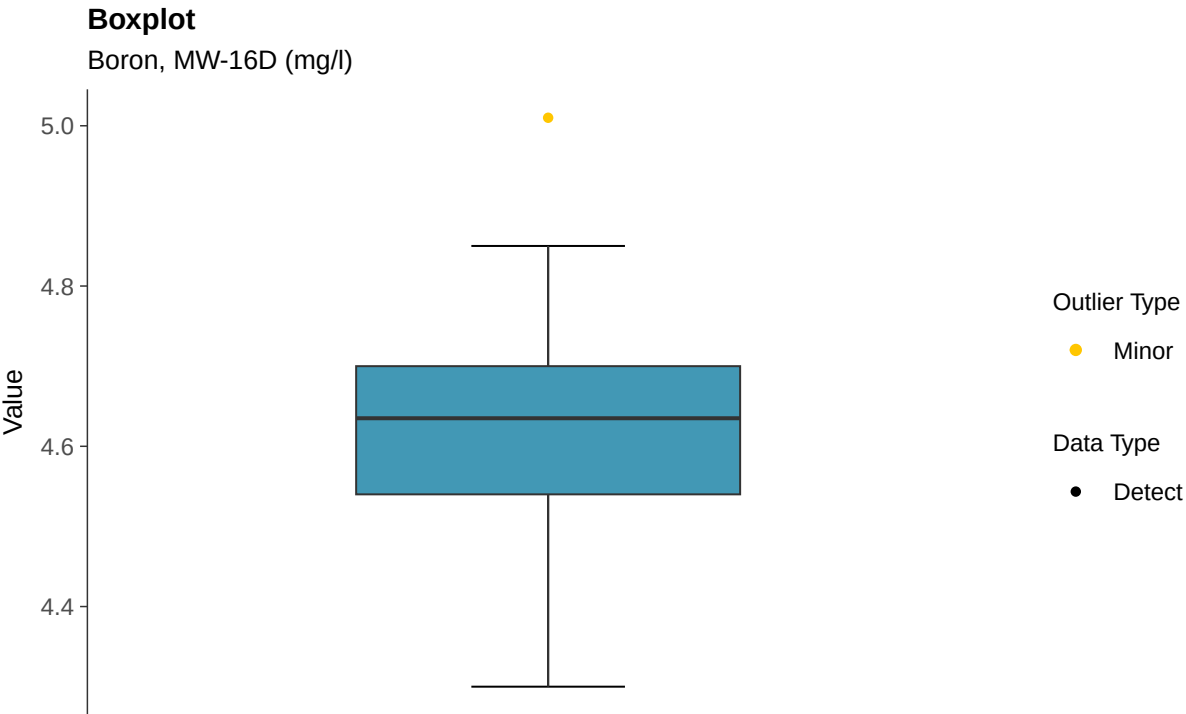


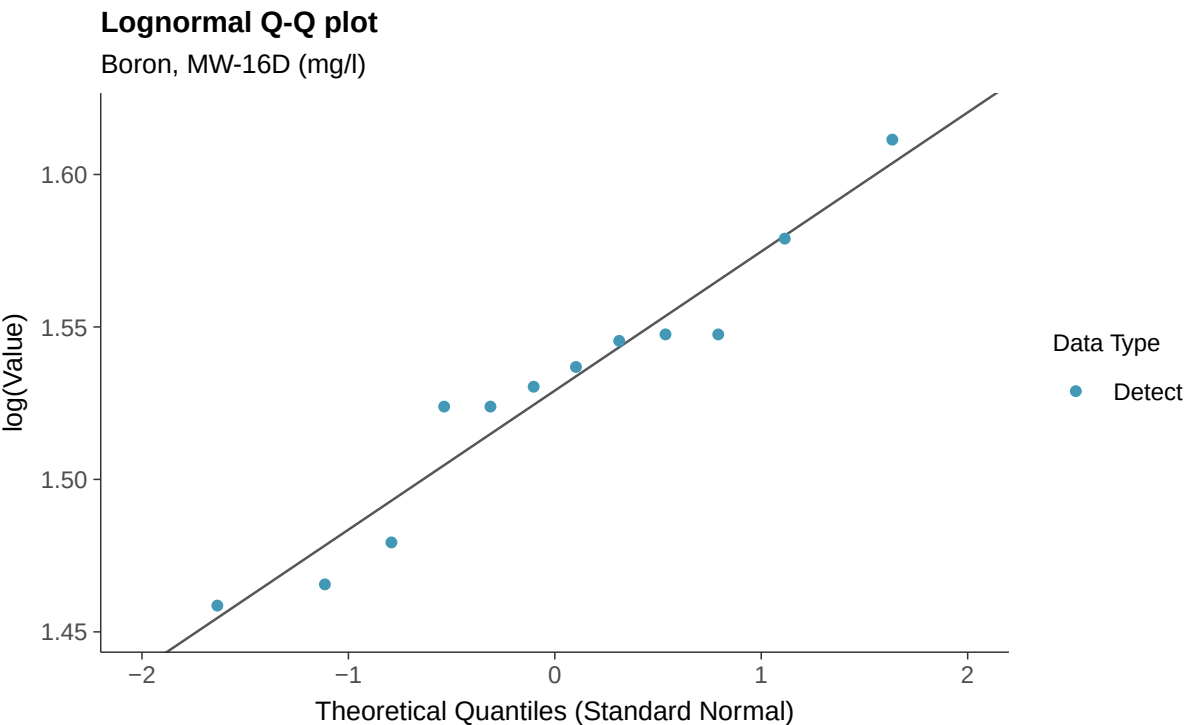
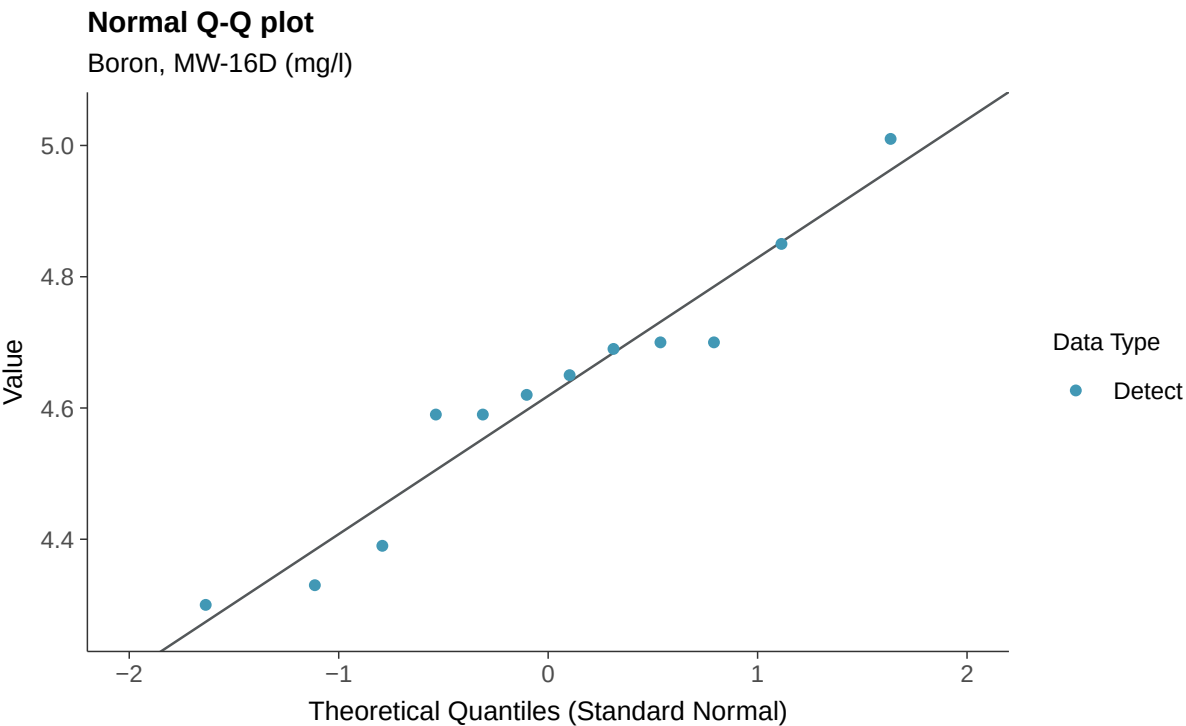


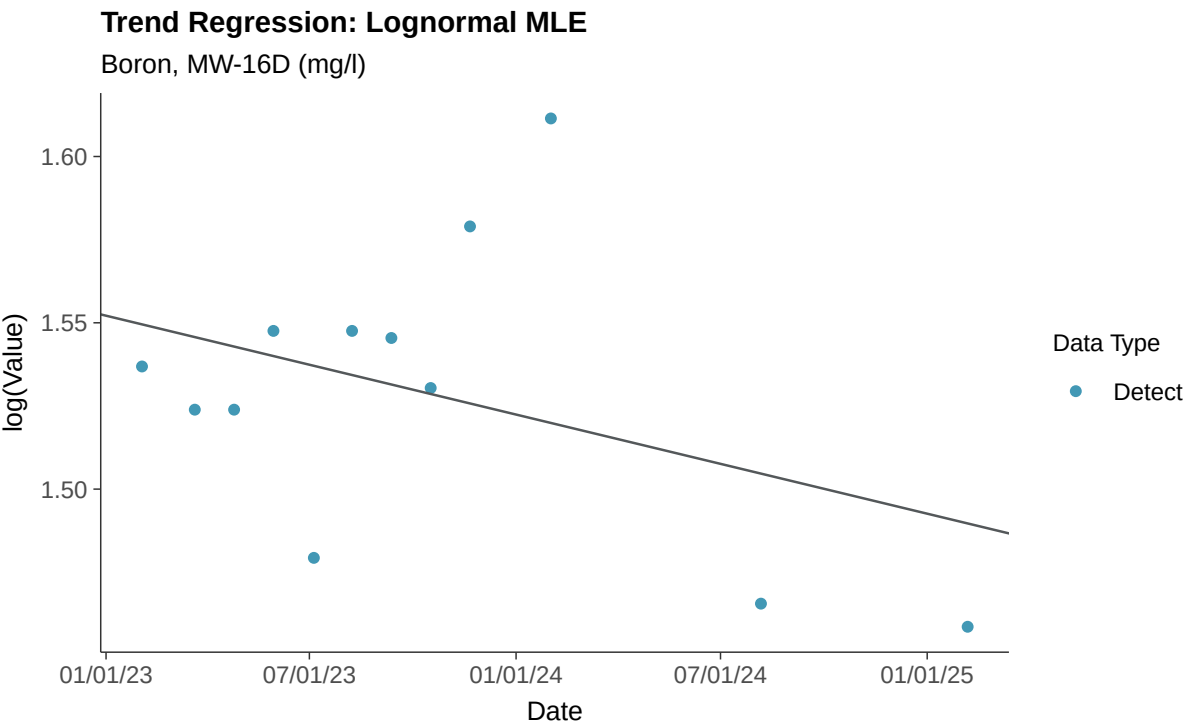
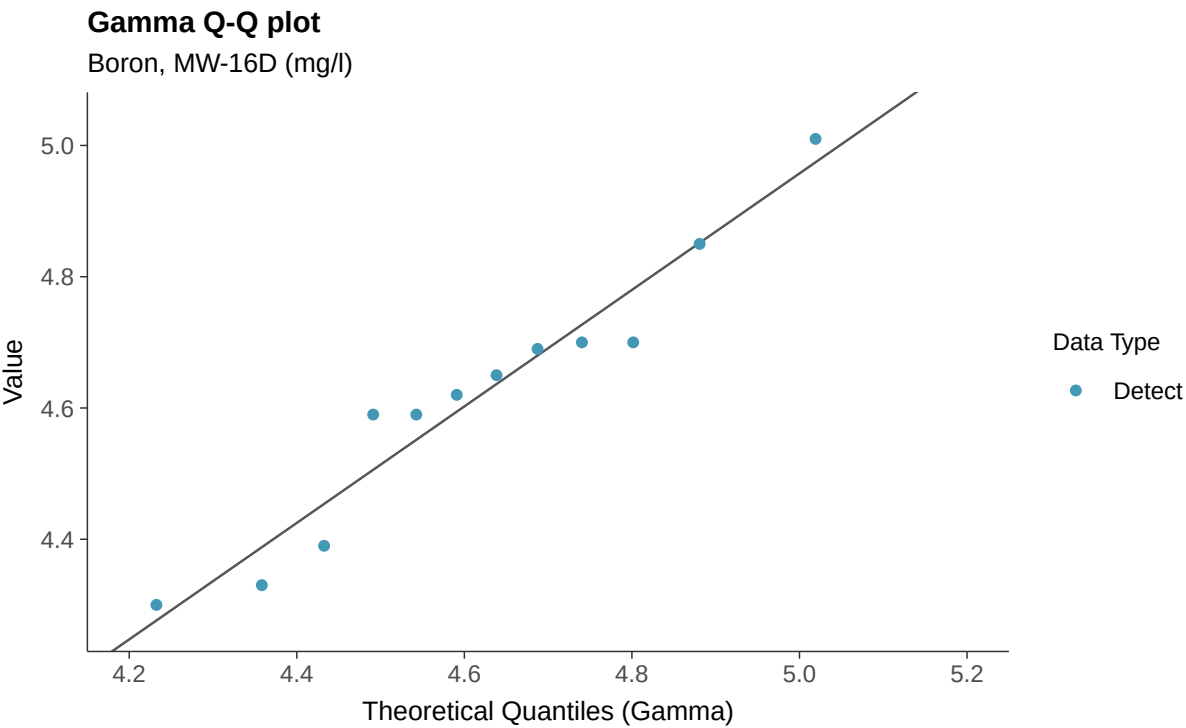
Appendix III: Boron, MW-16D

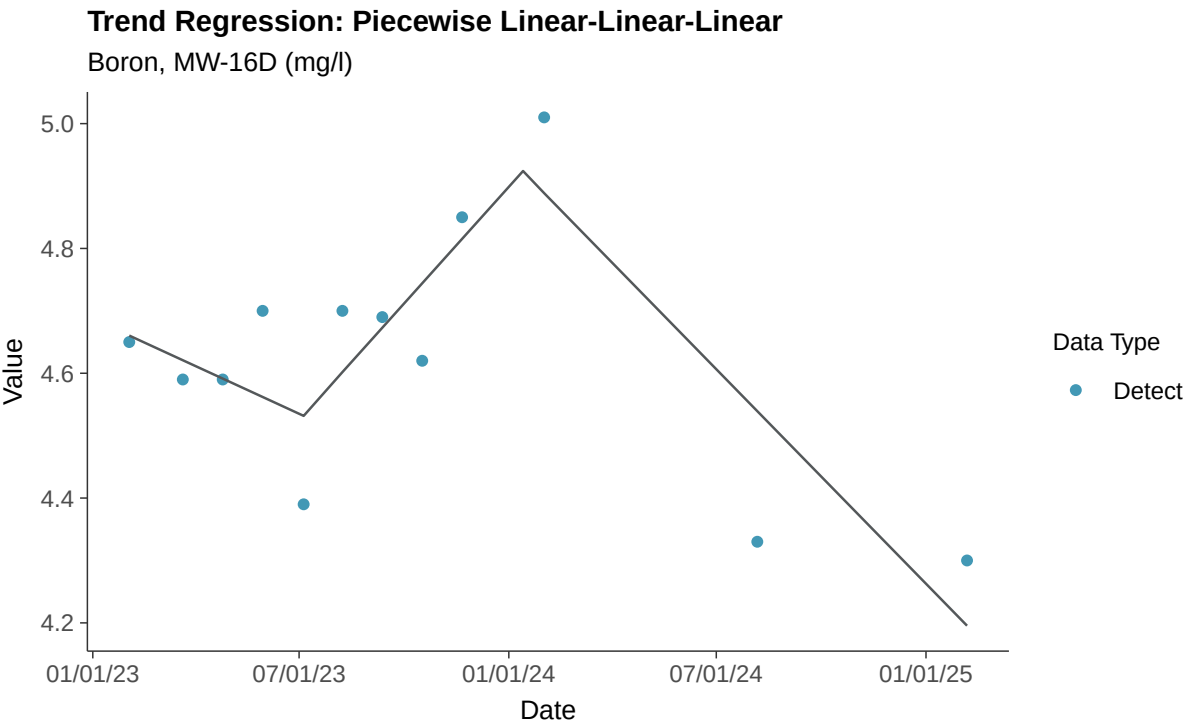
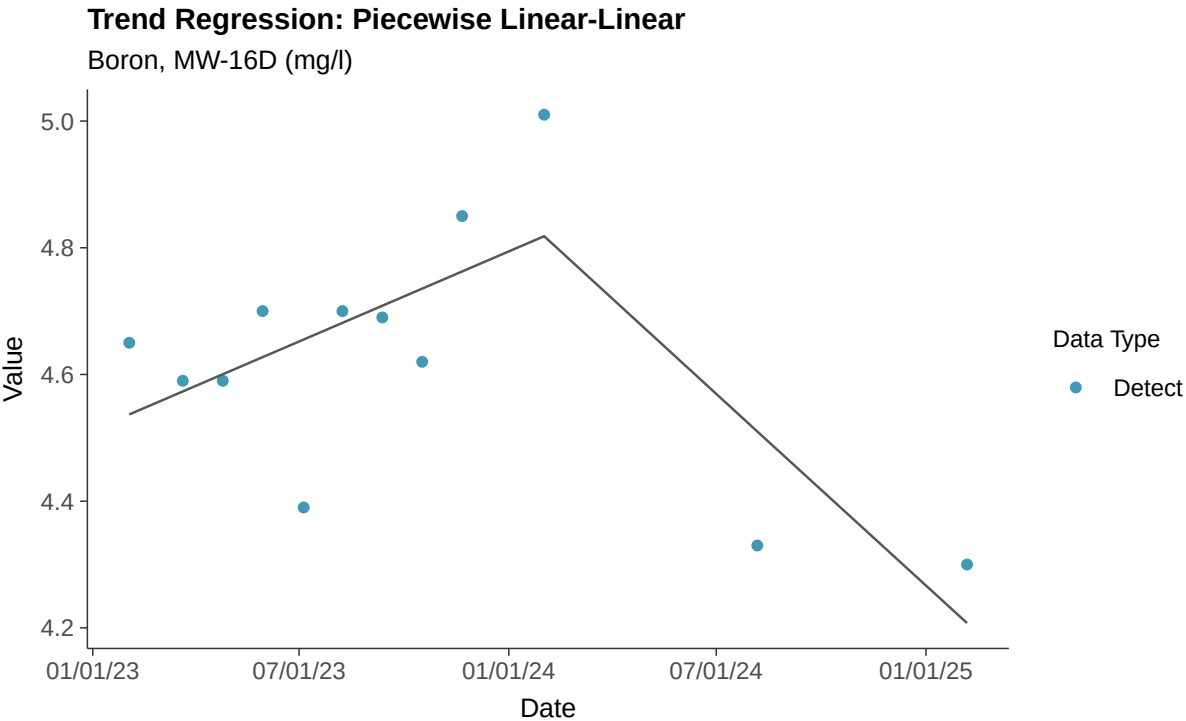
ID: 13_2_105







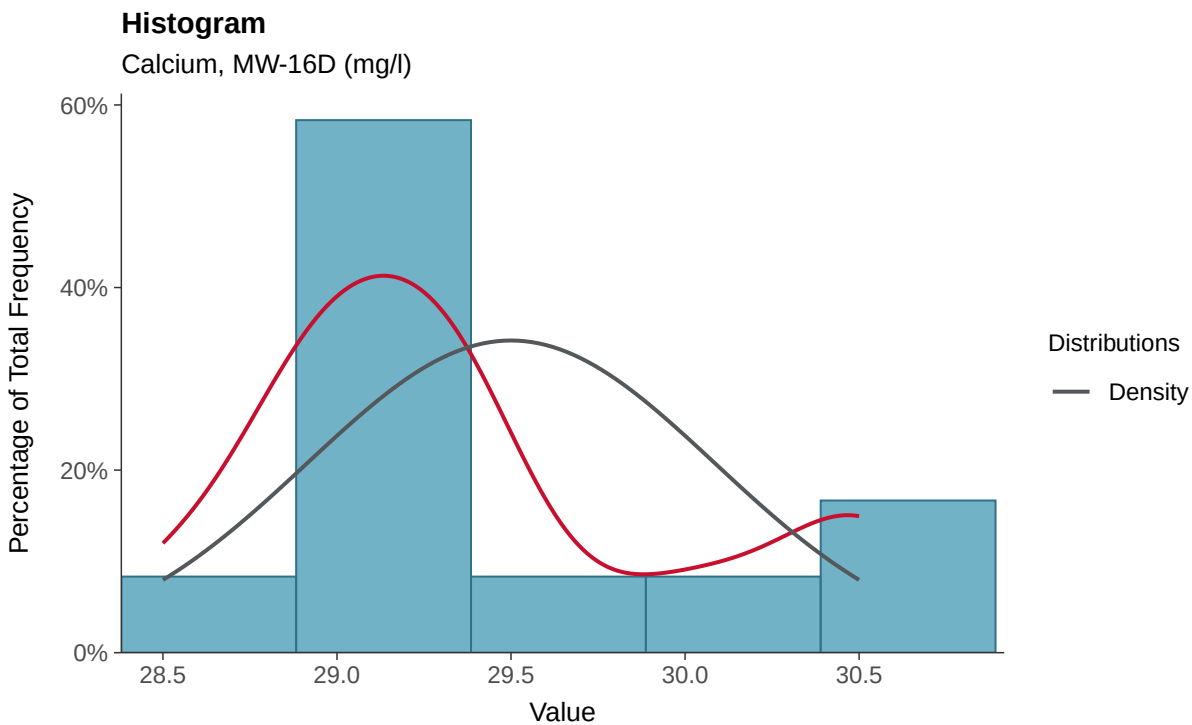
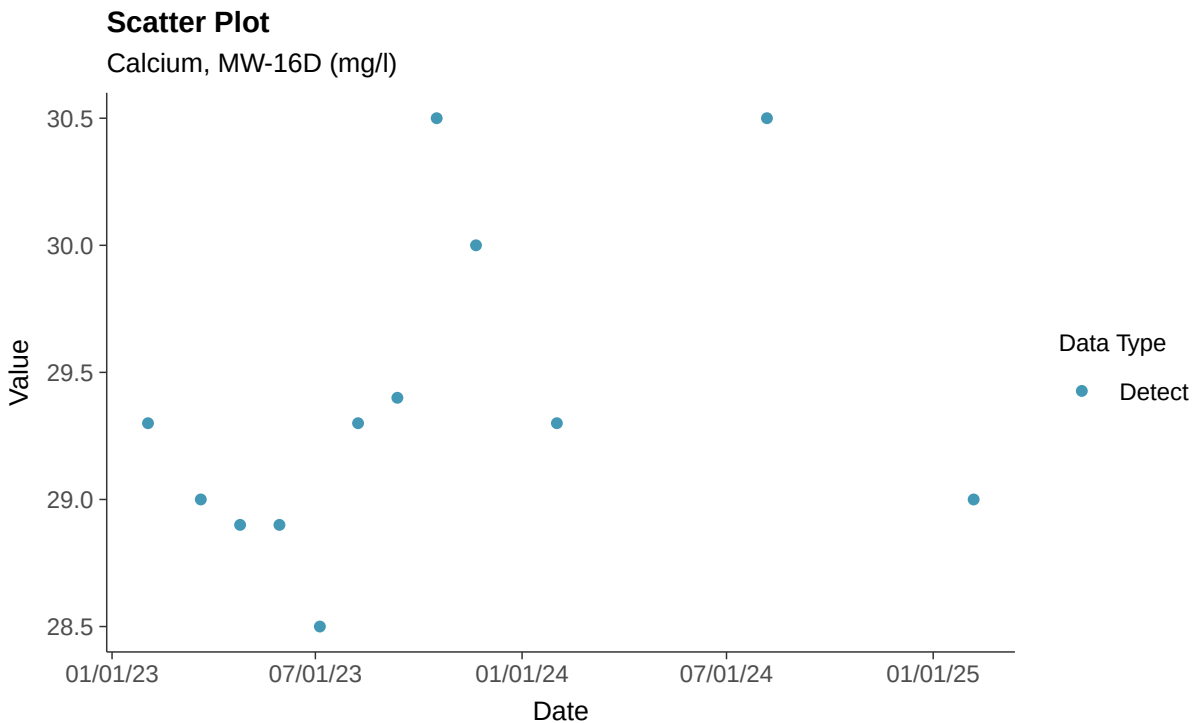


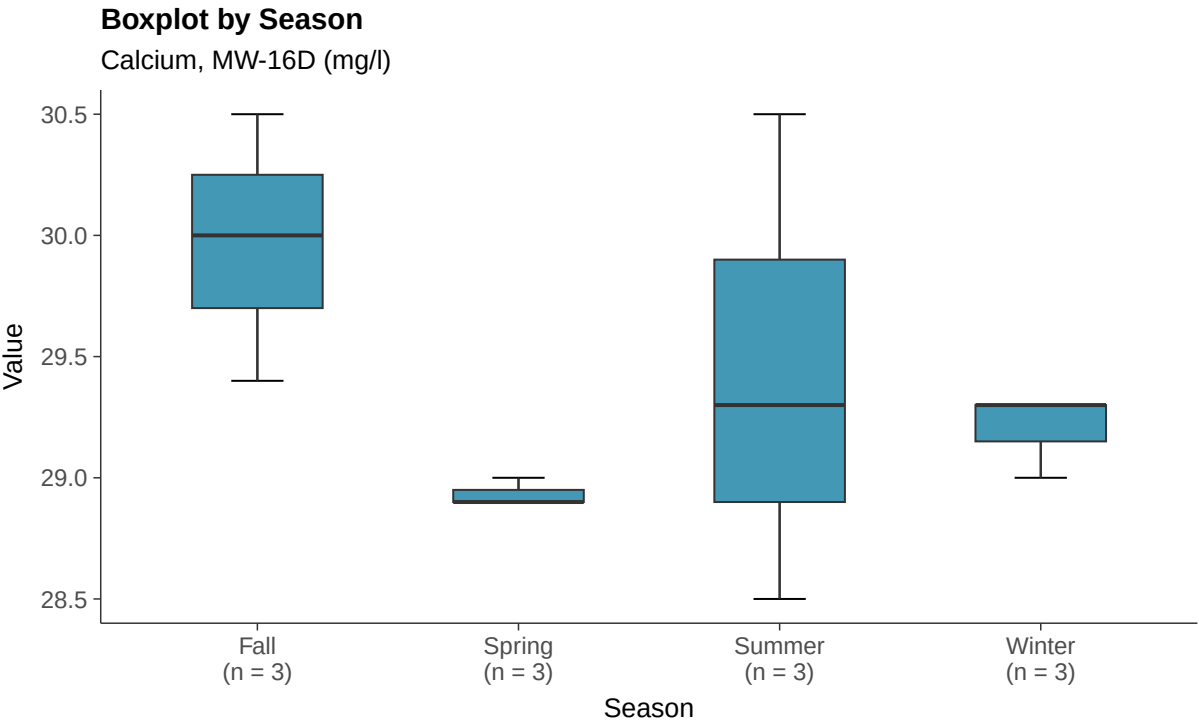
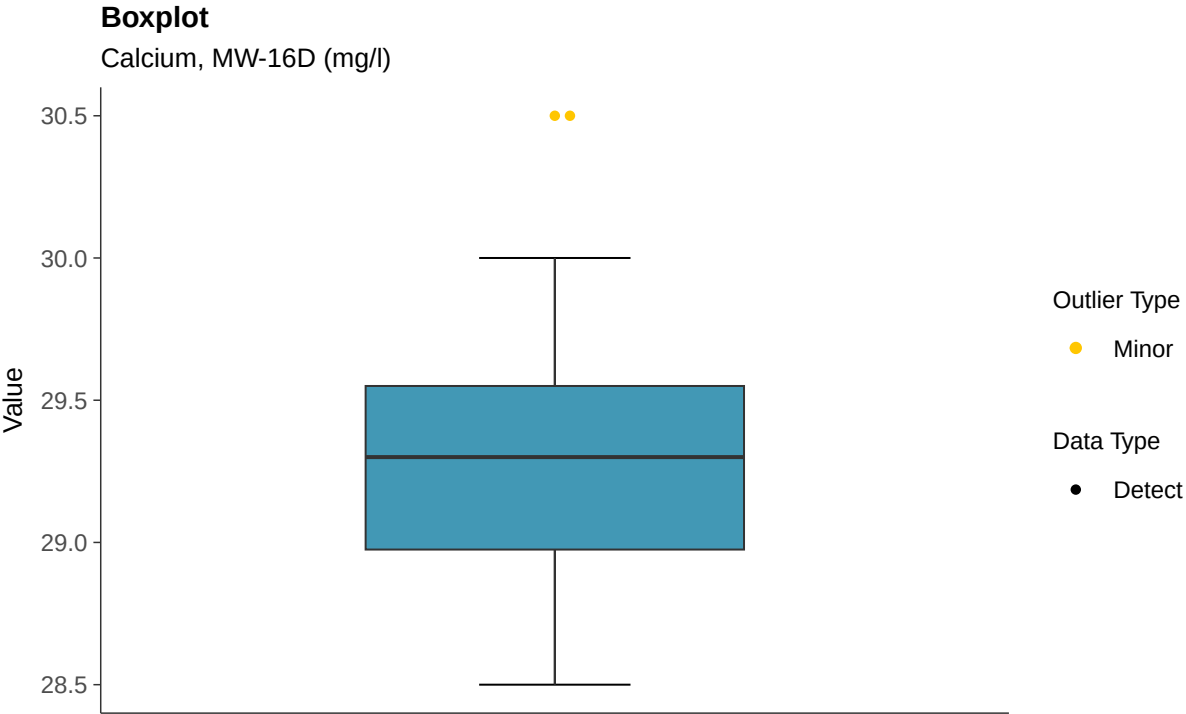


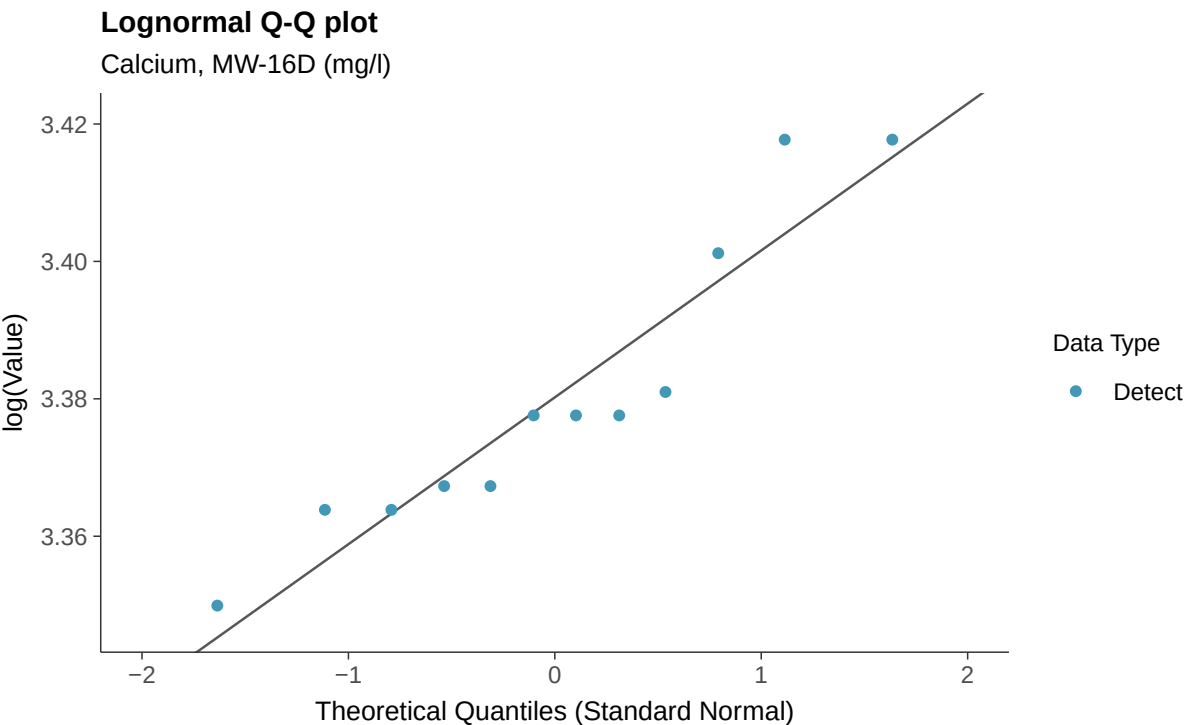
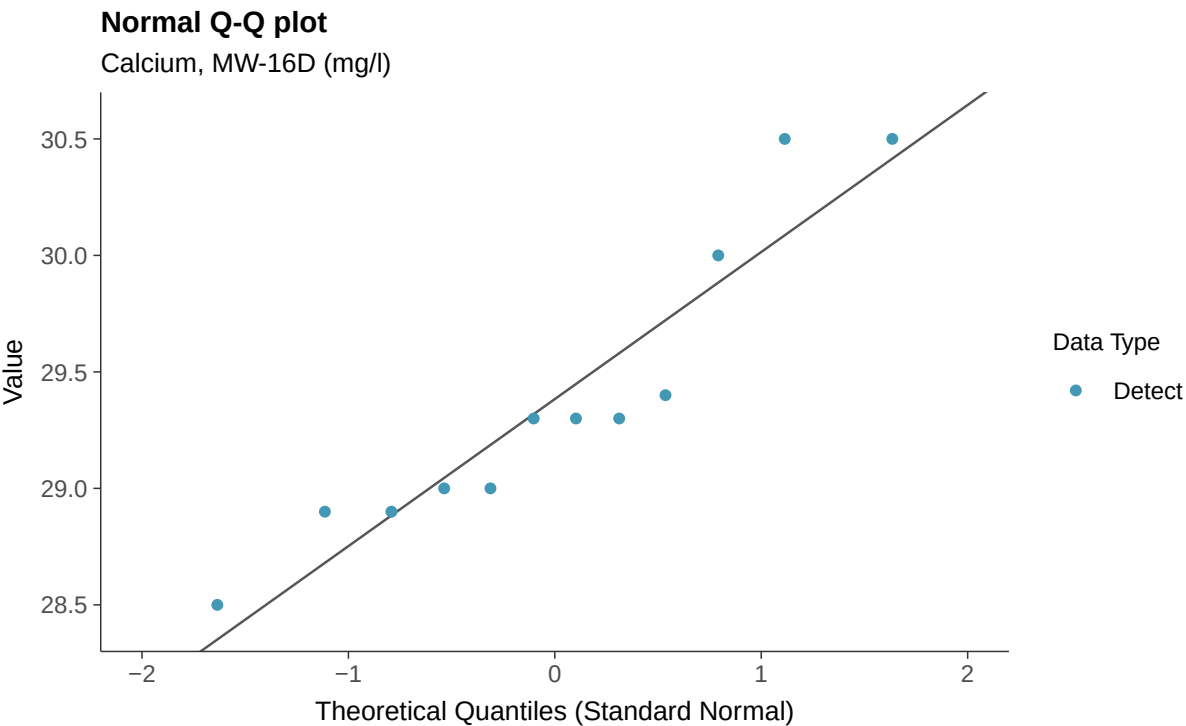


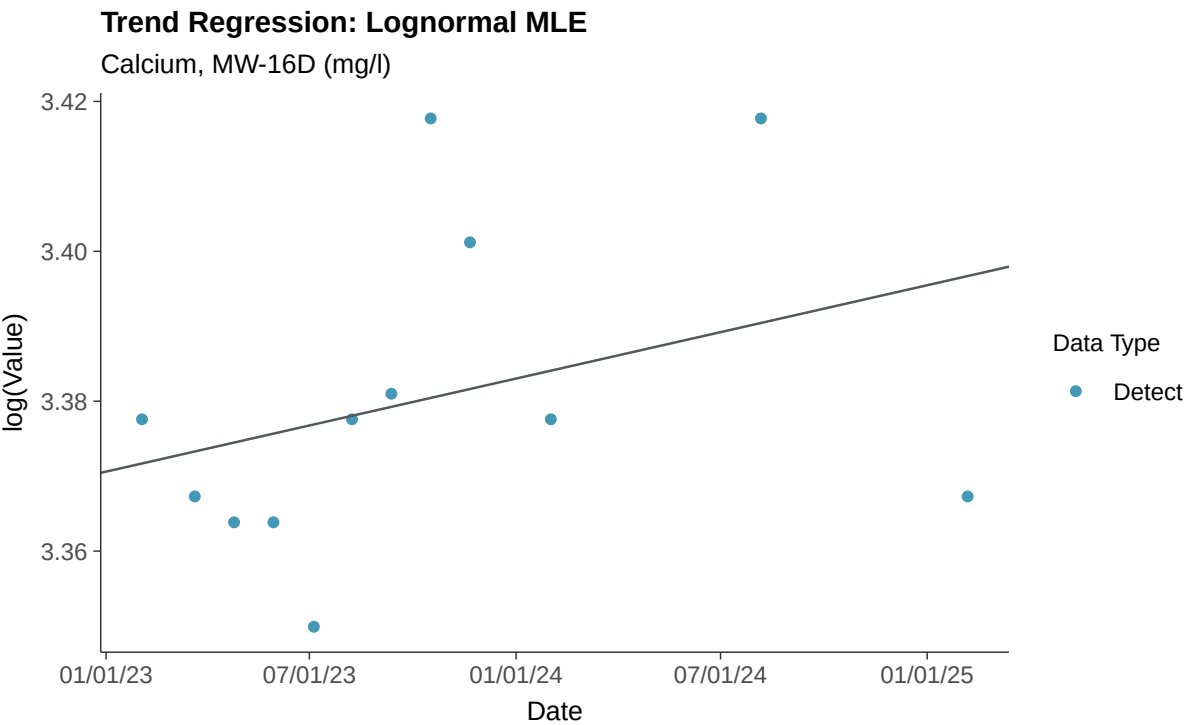
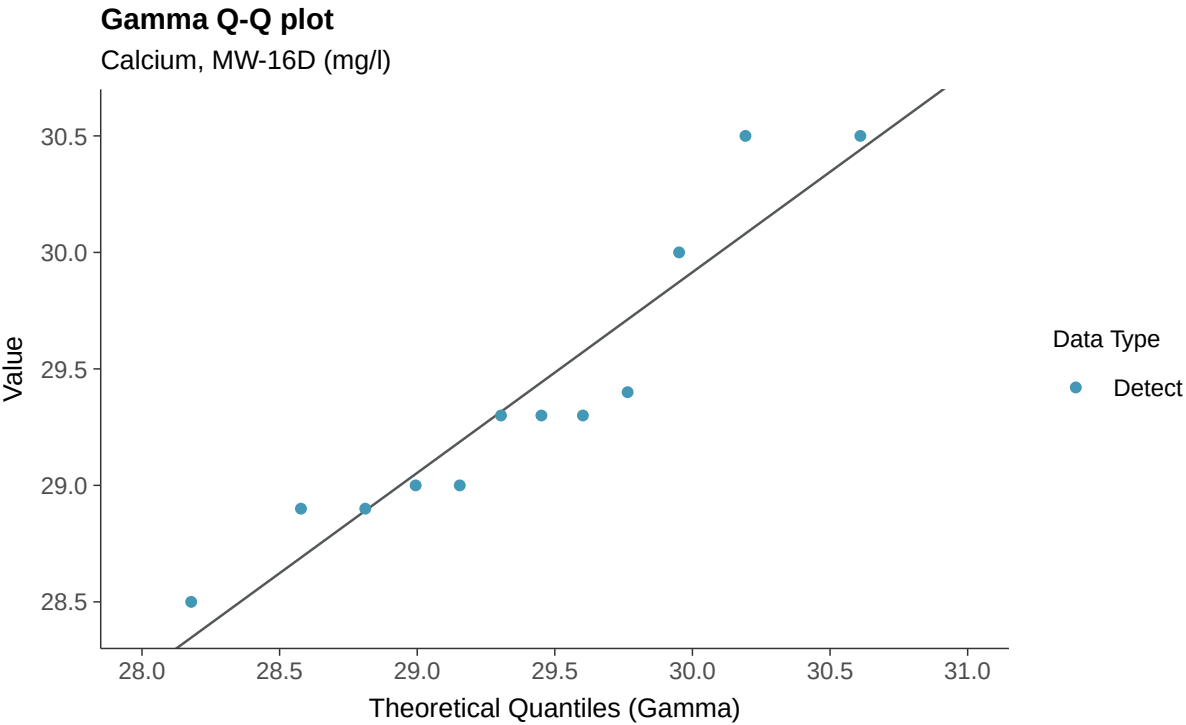
Appendix III: Calcium, MW-16D

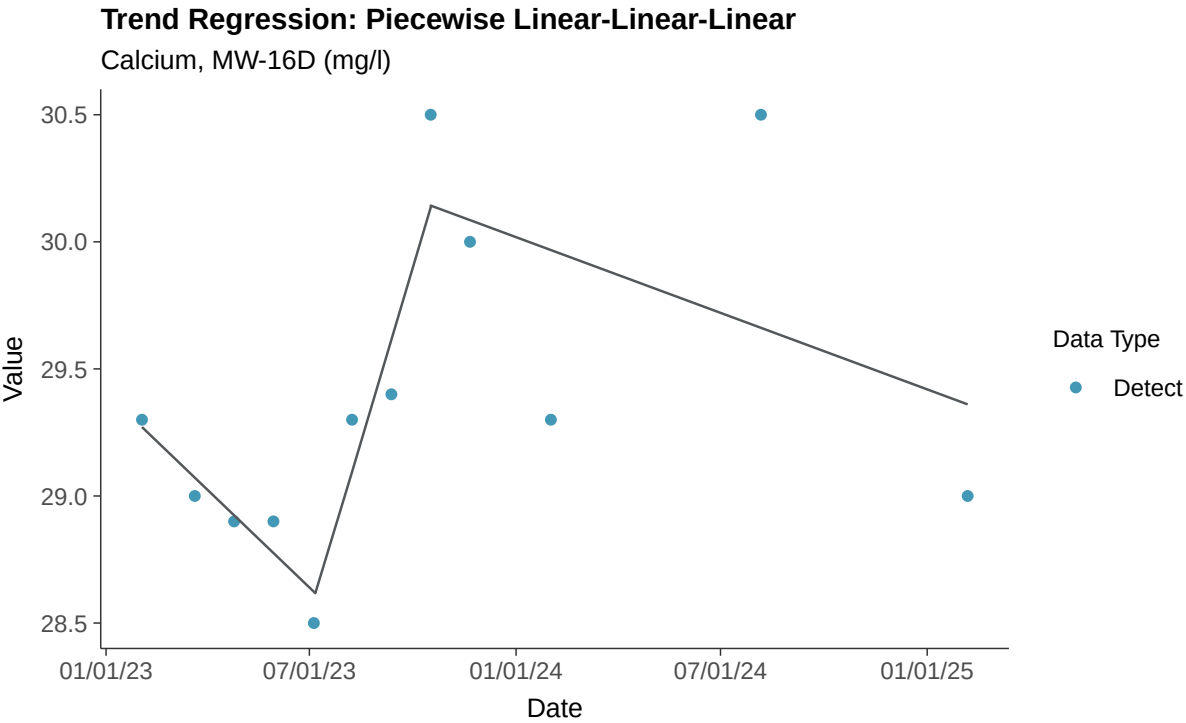
ID: 13_2_107







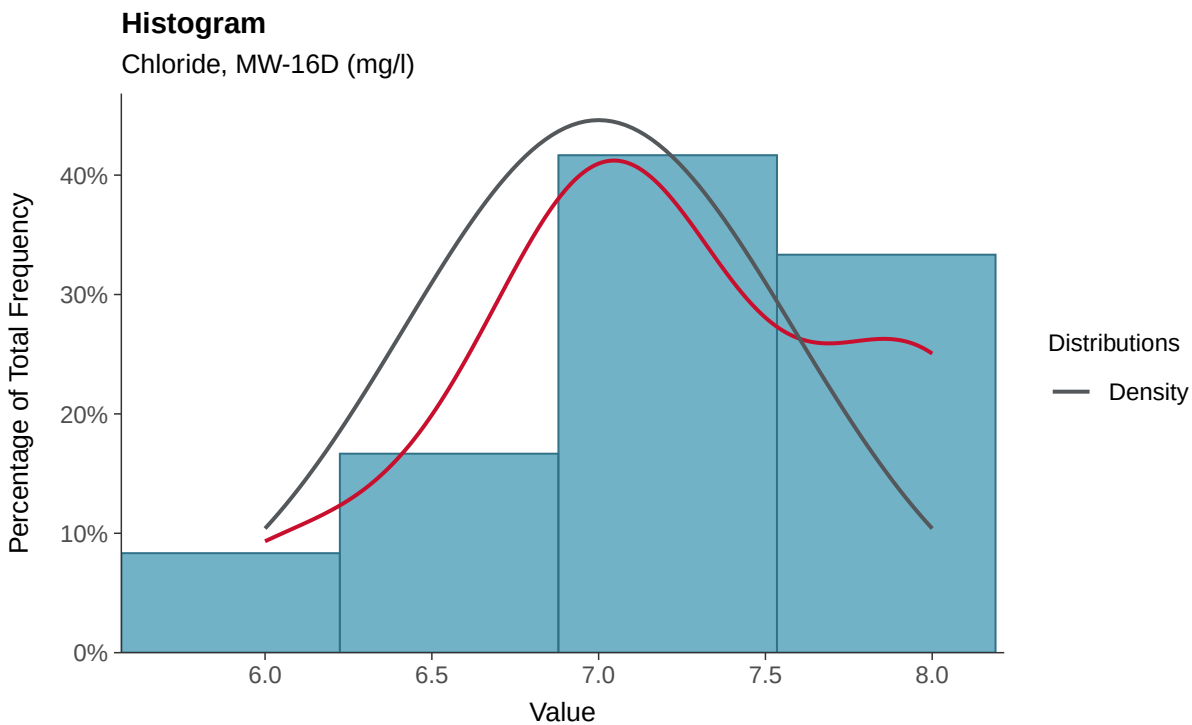
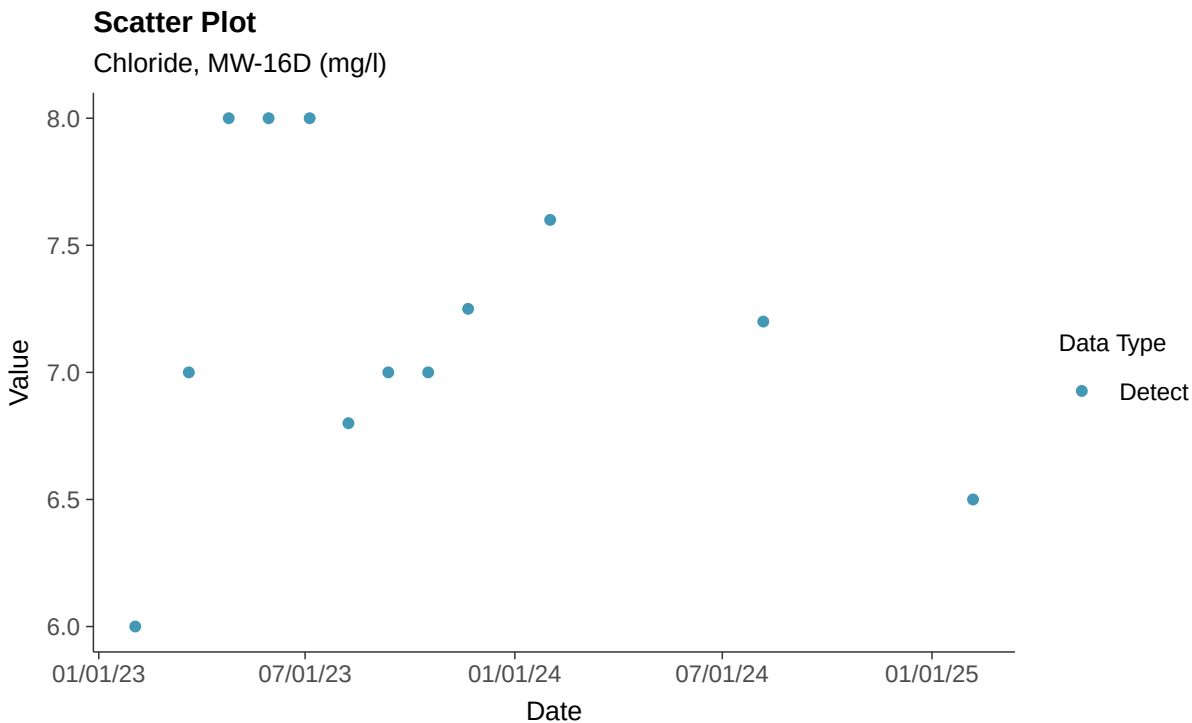






Appendix III: Chloride, MW-16D

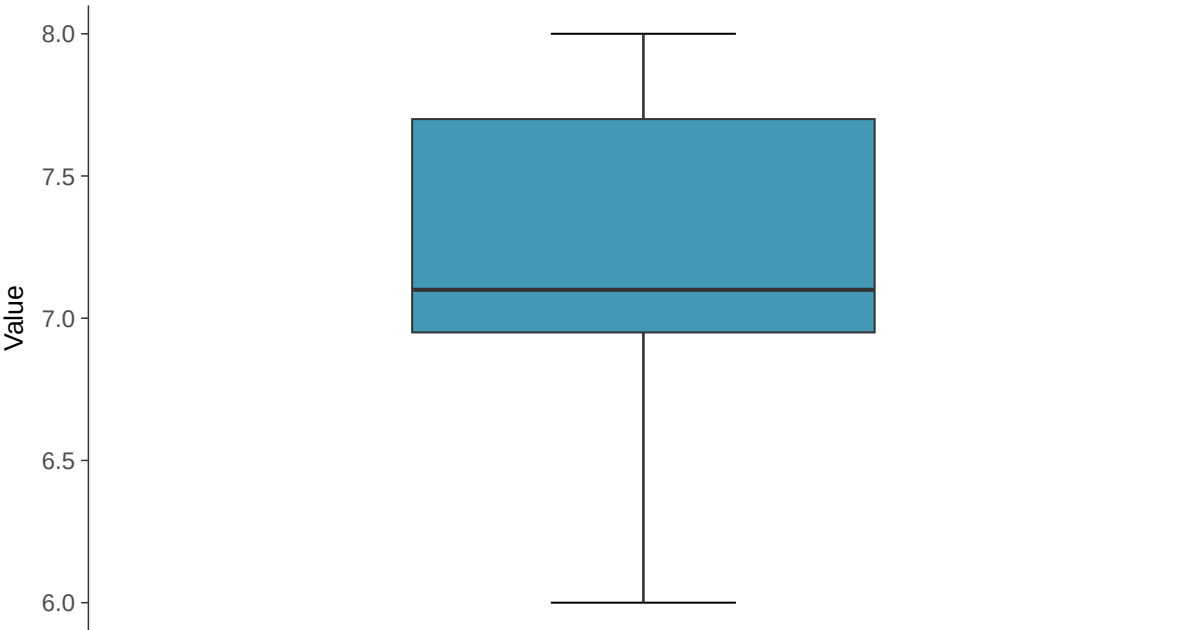
ID: 13_2_108





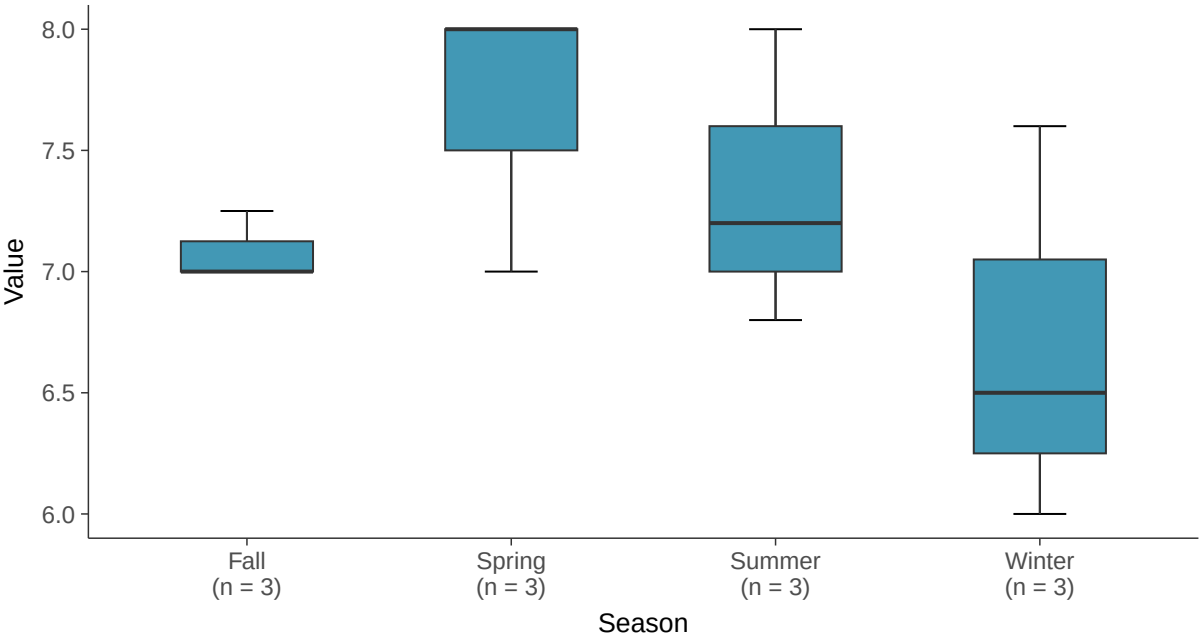
Boxplot

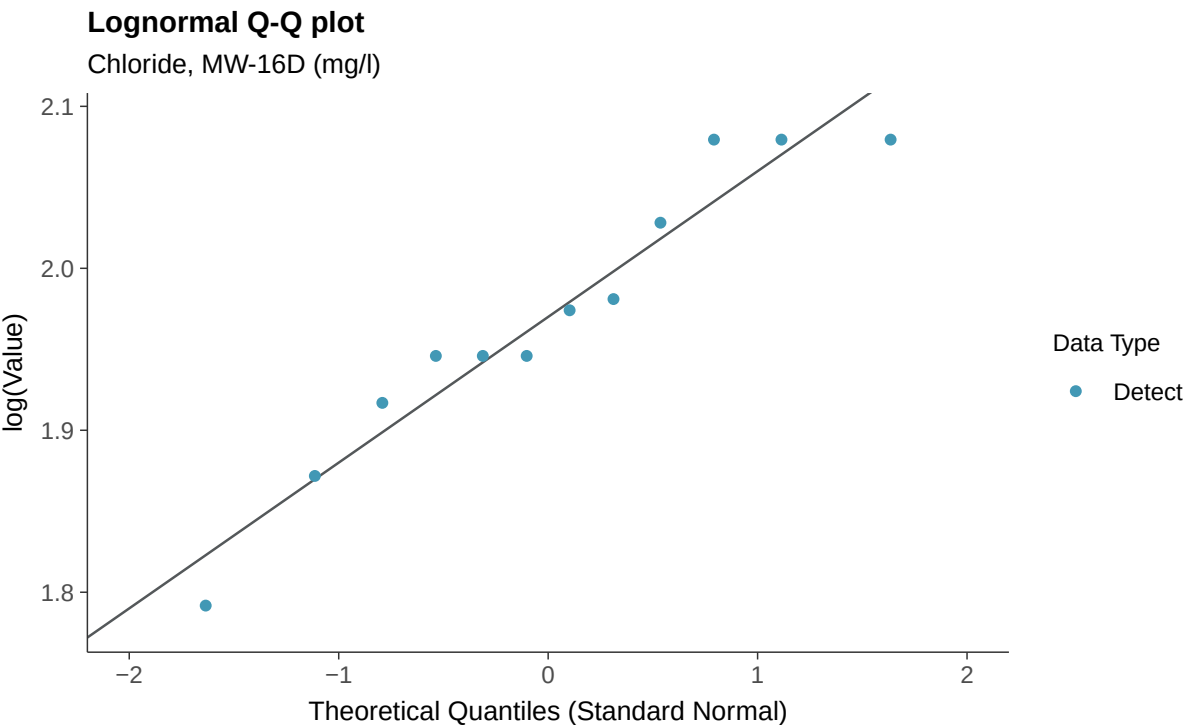
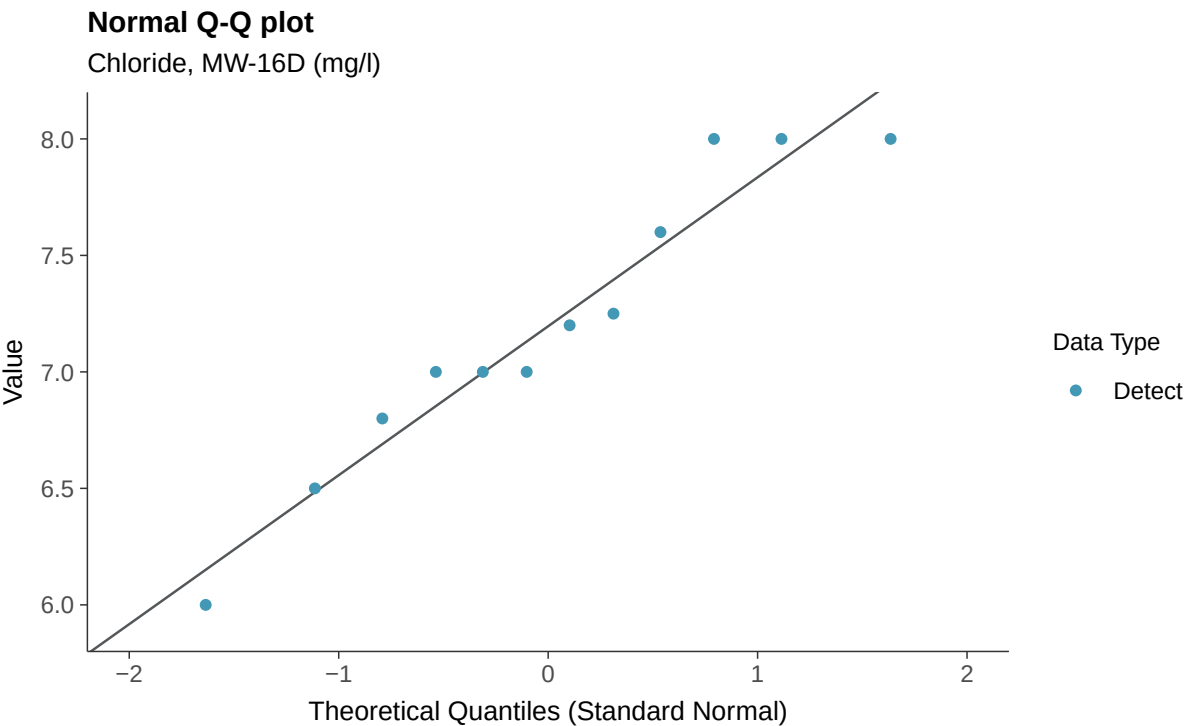
Chloride, MW-16D (mg/l)

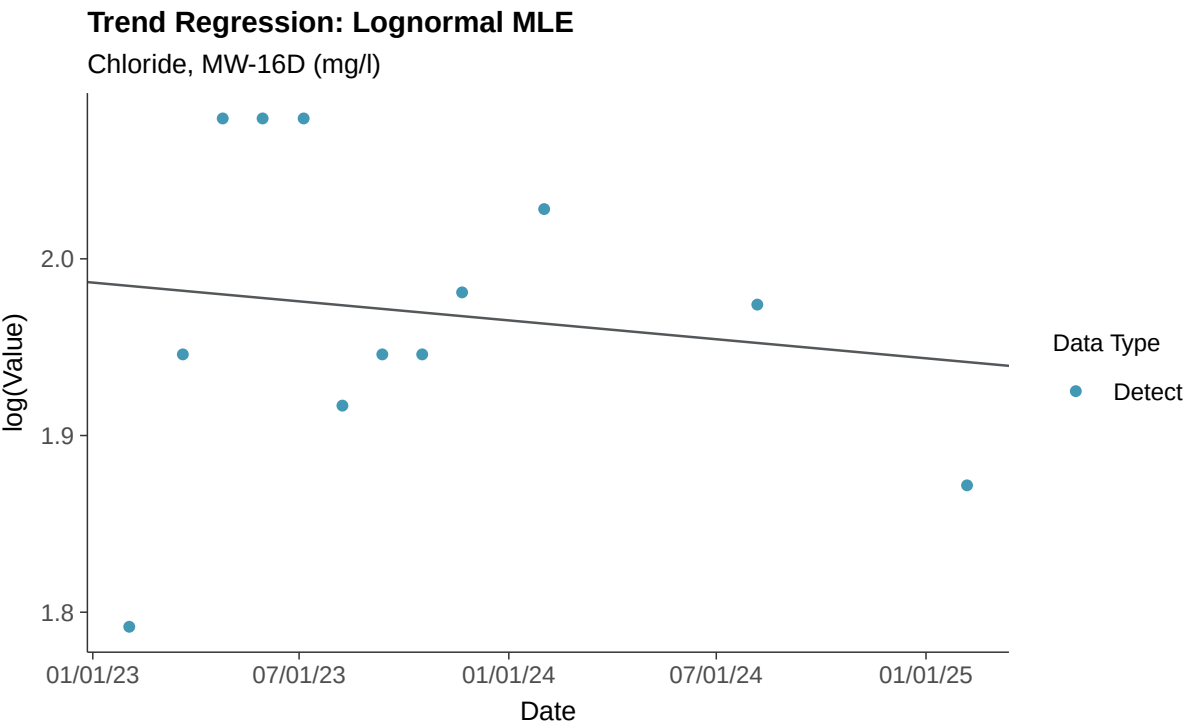
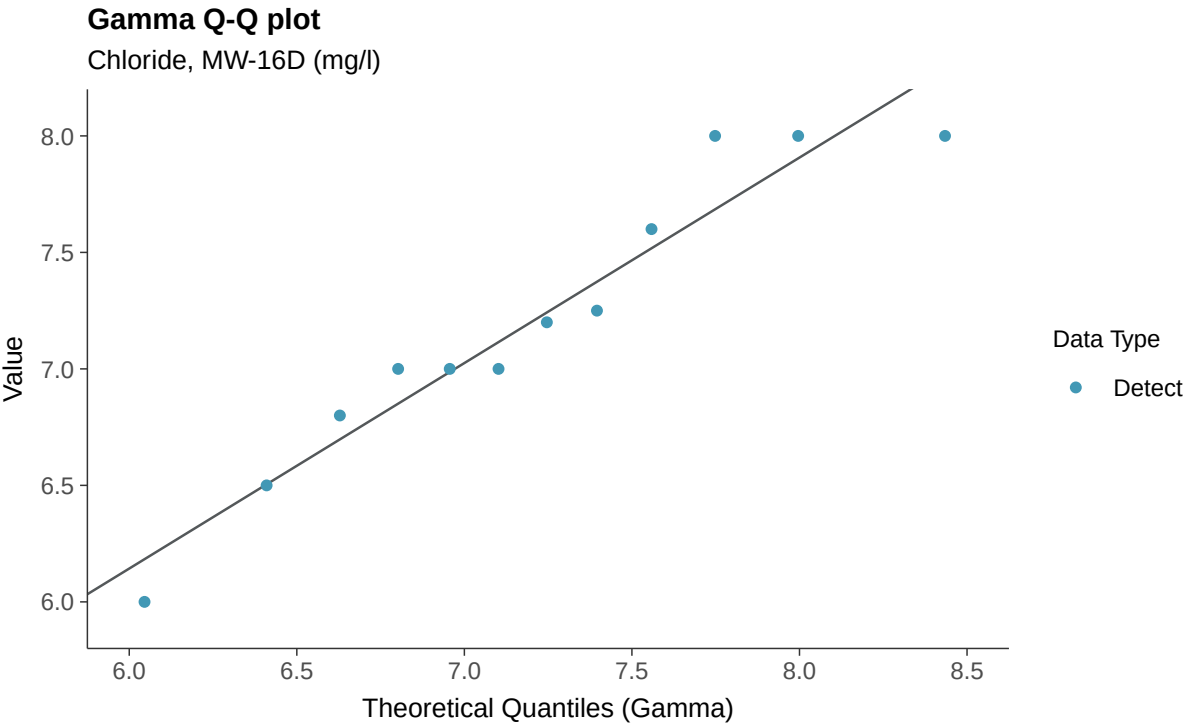


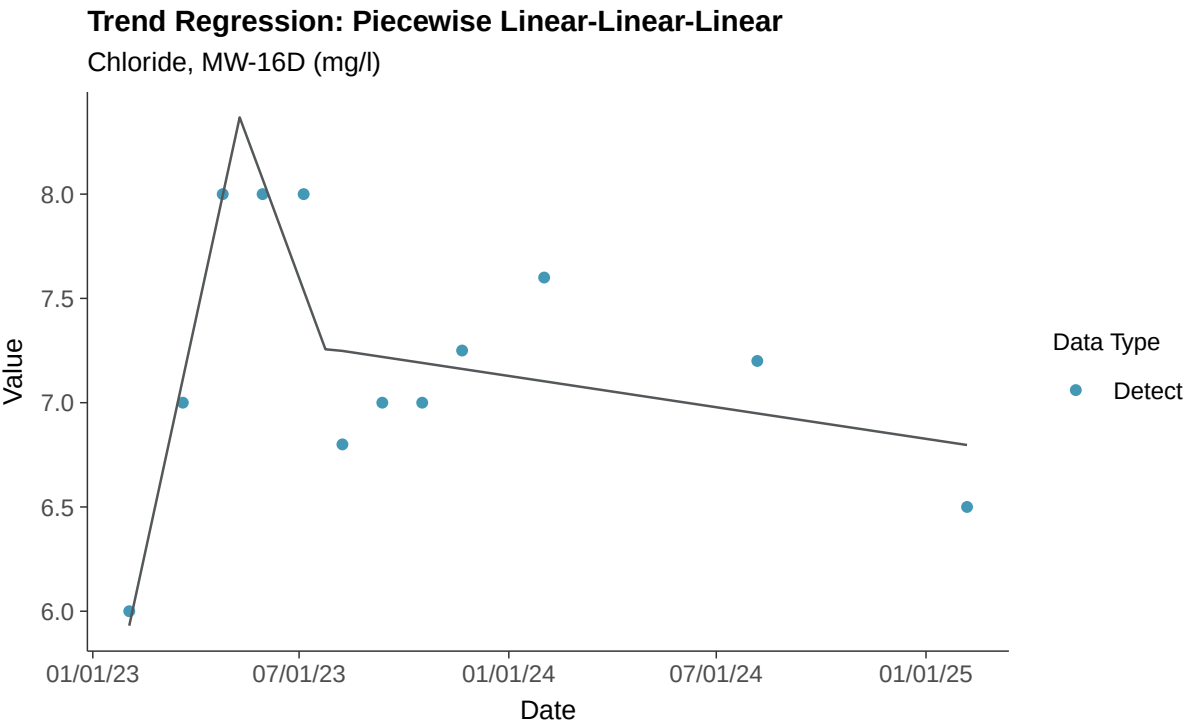
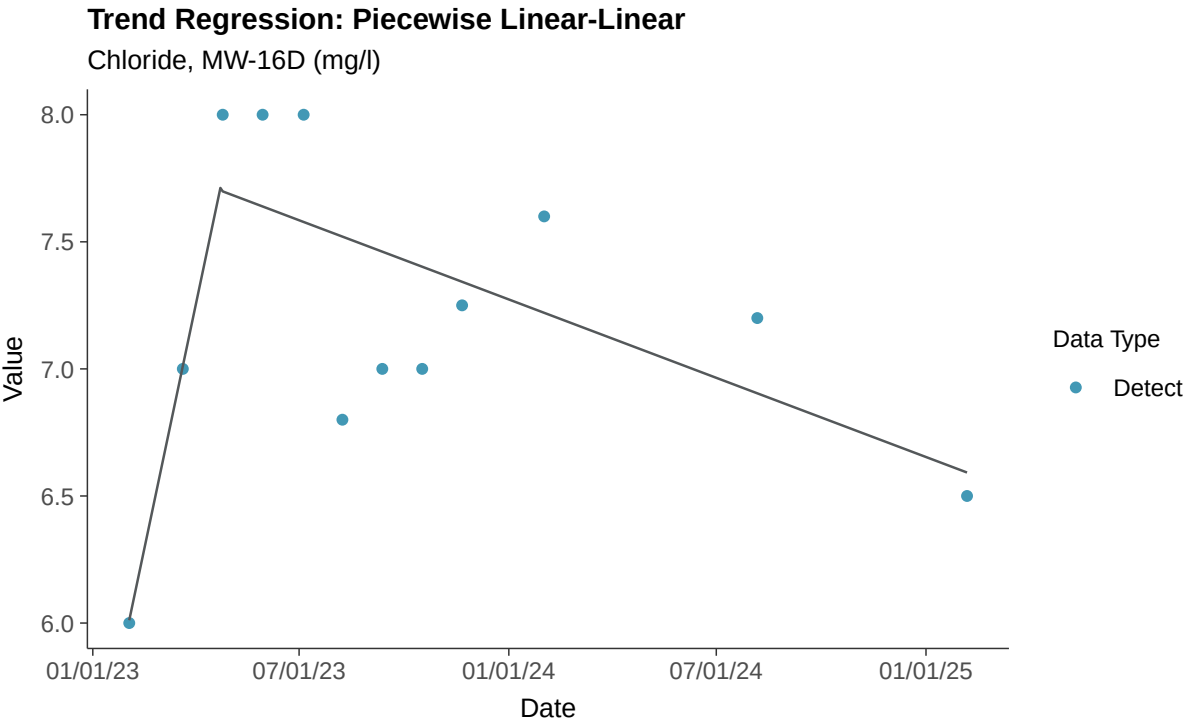
Boxplot by Season

Chloride, MW-16D (mg/l)





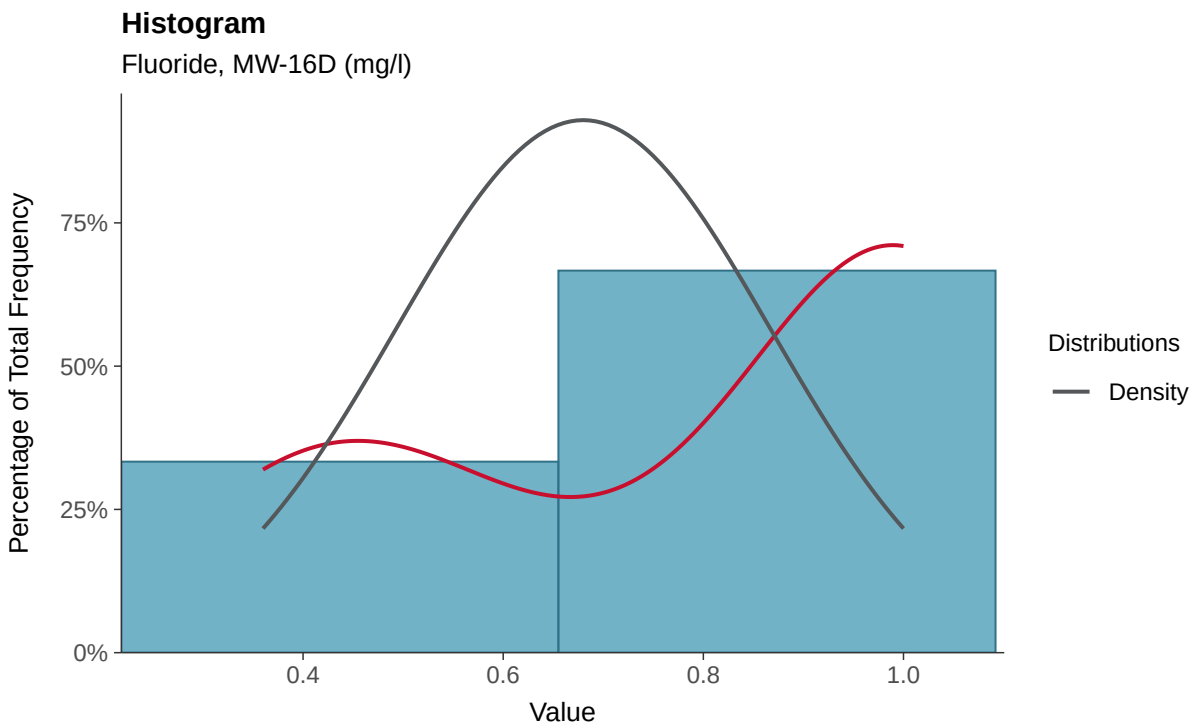
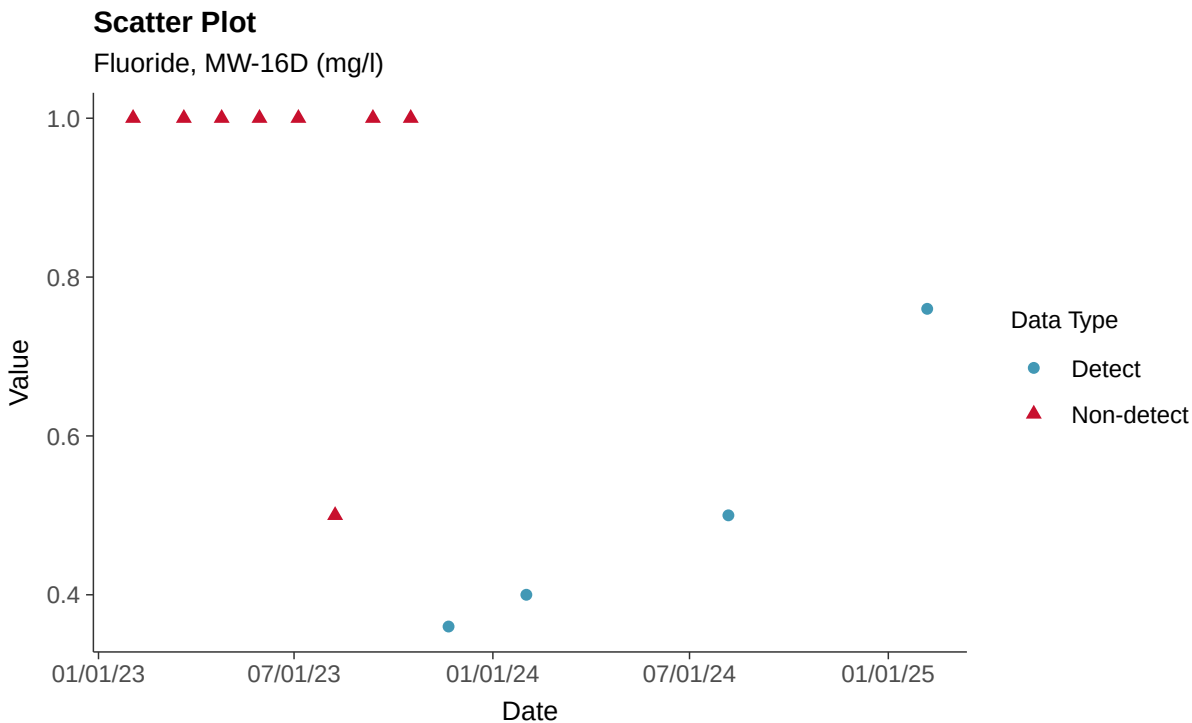


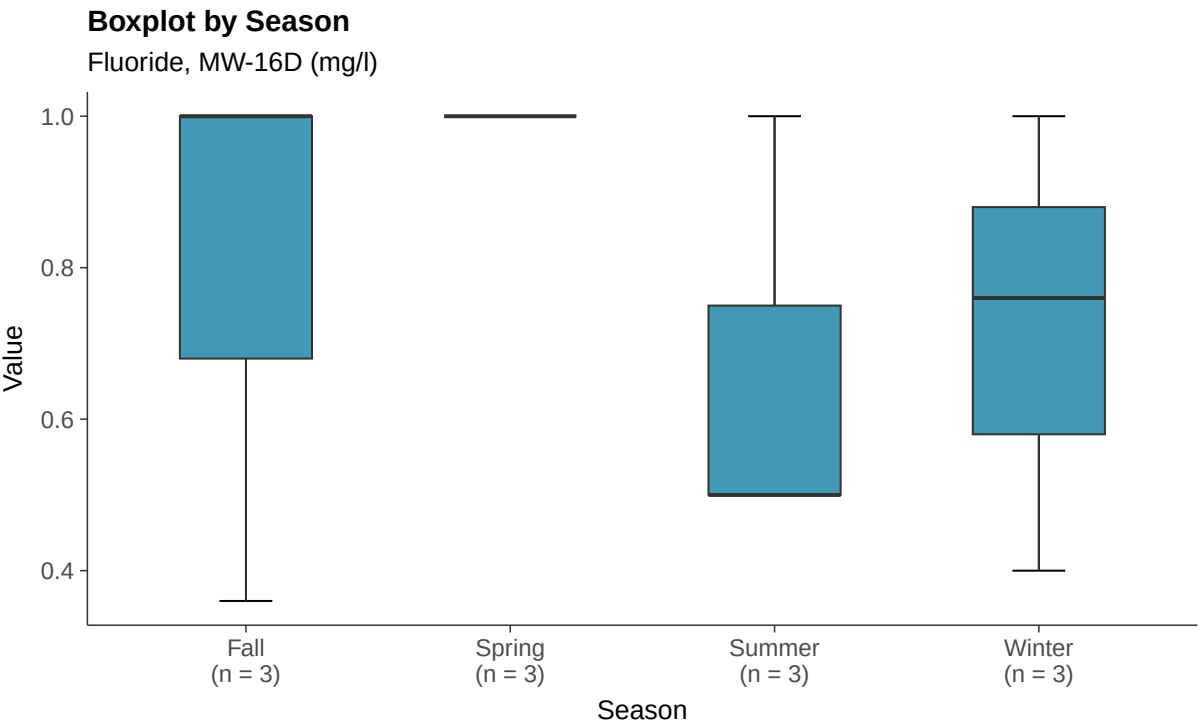
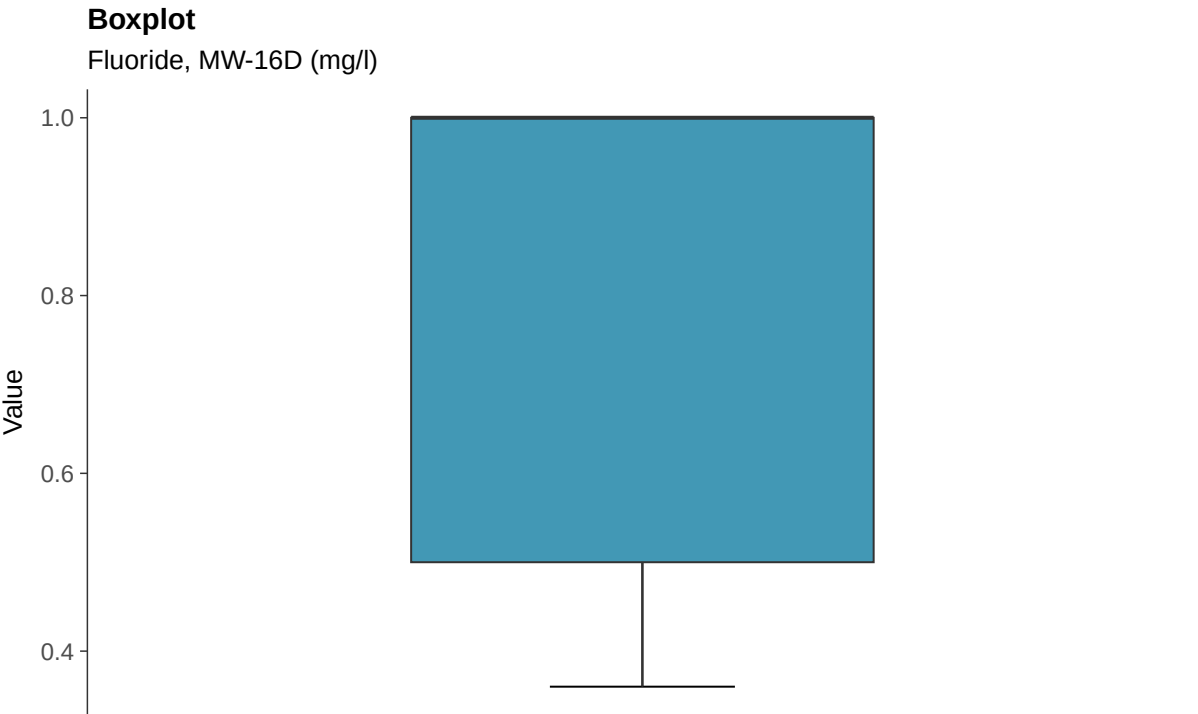




Appendix III: Fluoride, MW-16D

ID: 13_2_112

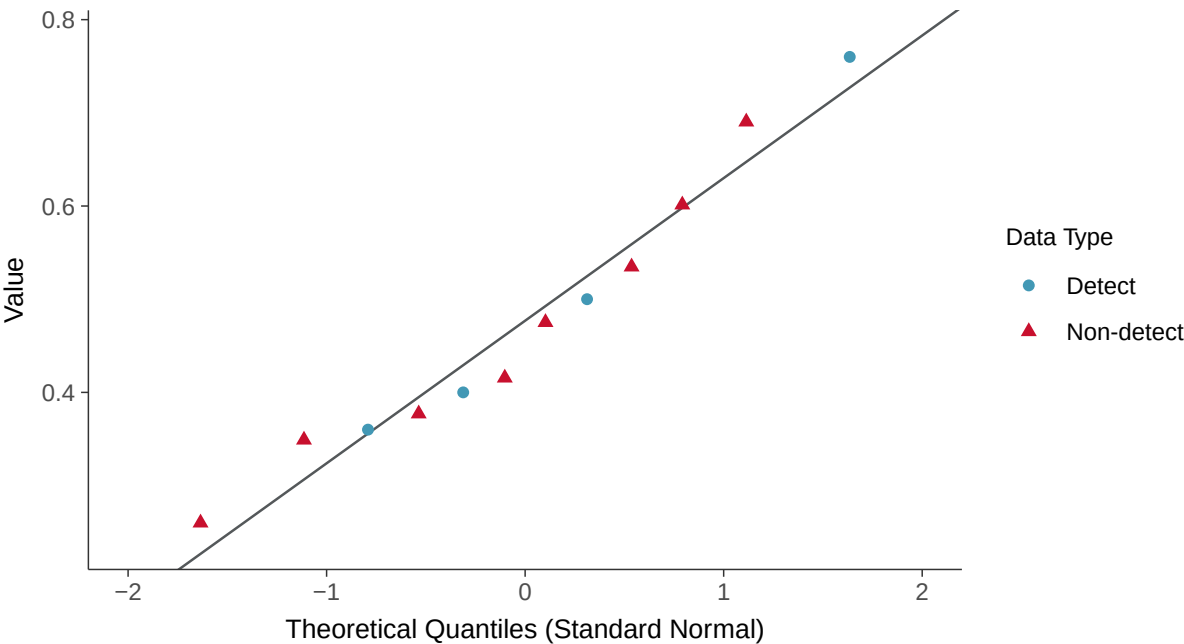






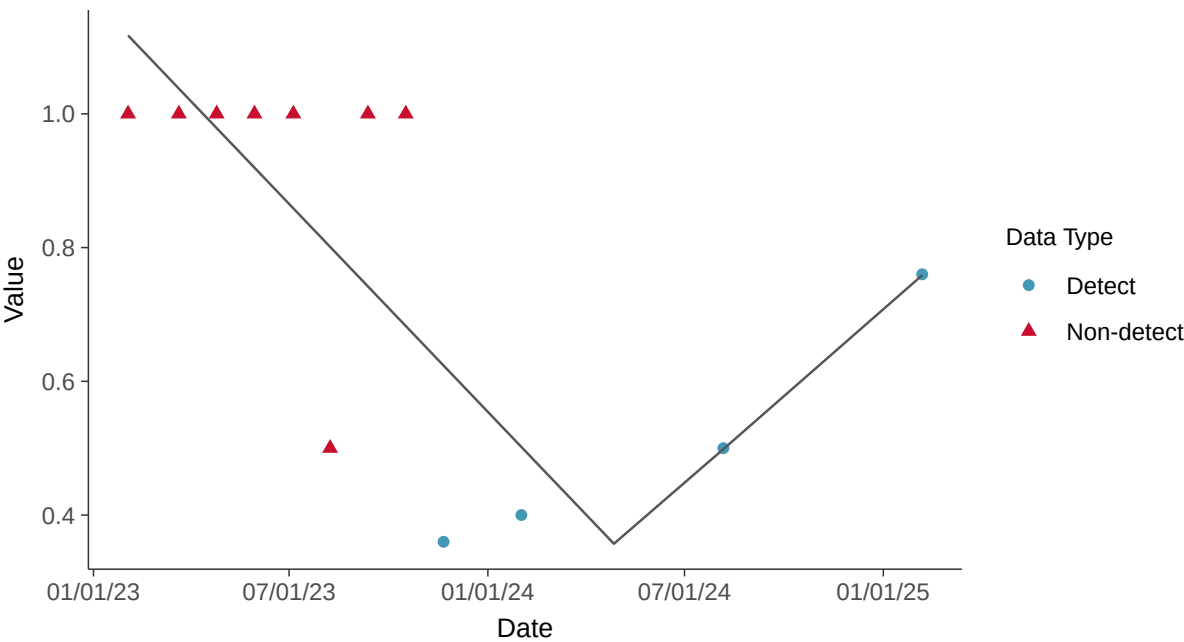
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-16D (mg/l)



Trend Regression: Piecewise Linear-Linear

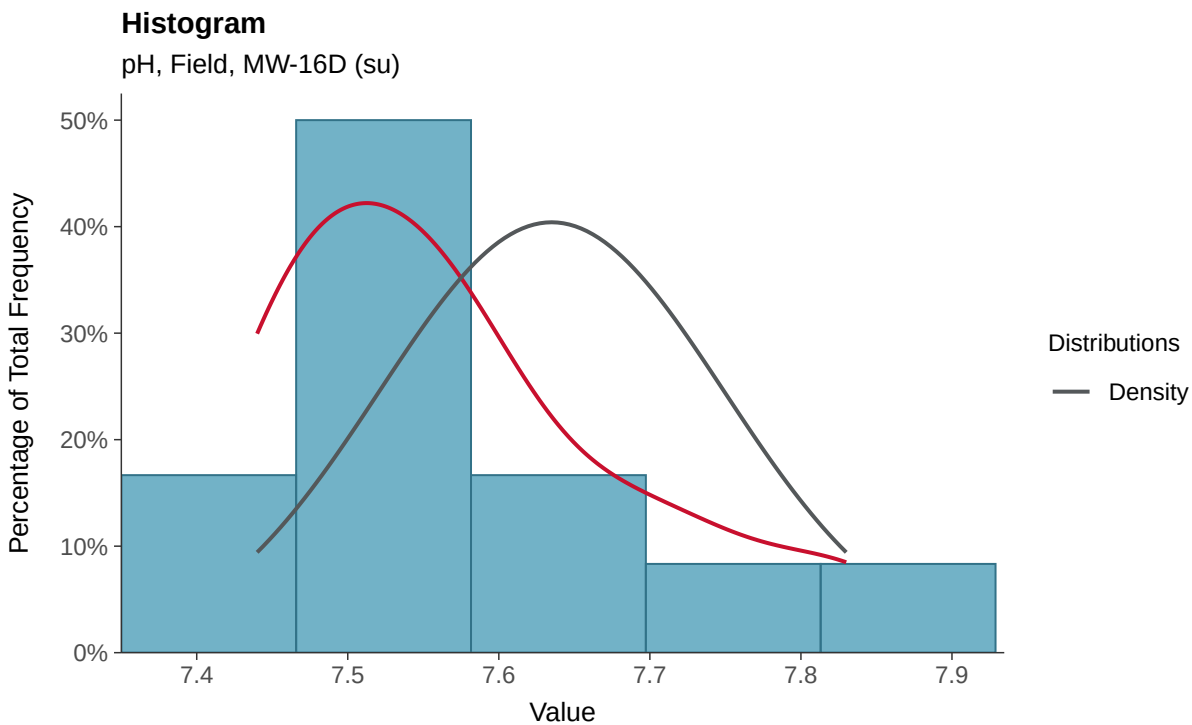
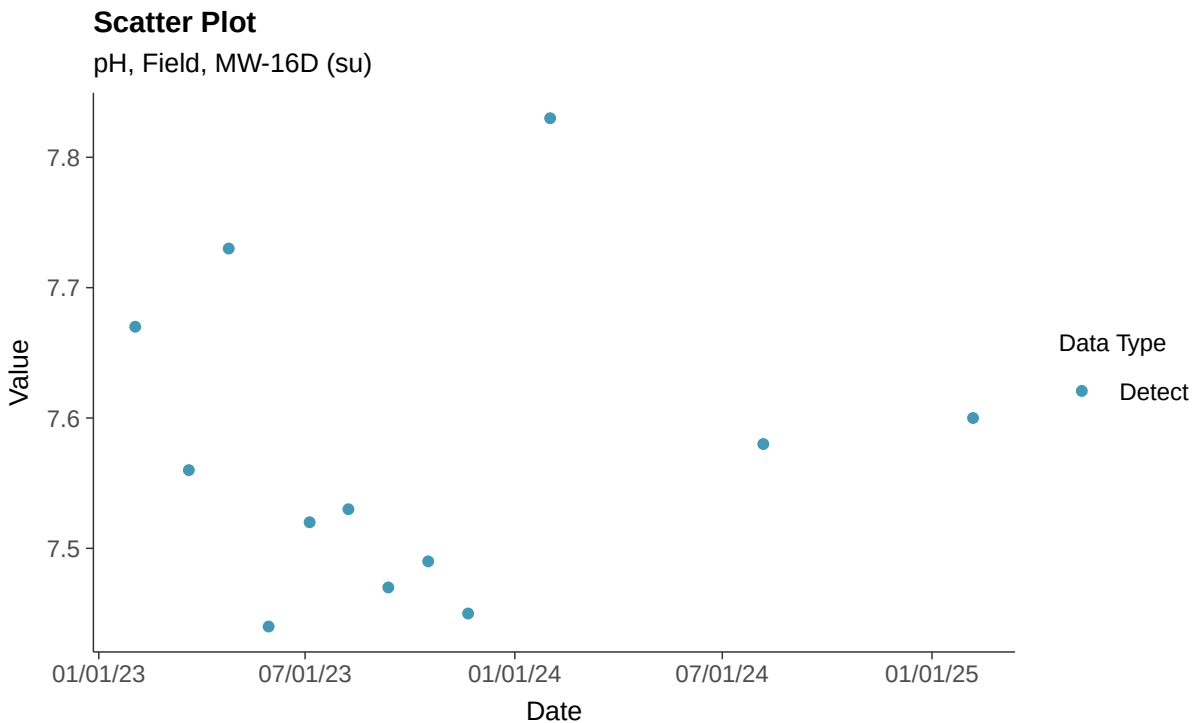
Fluoride, MW-16D (mg/l)

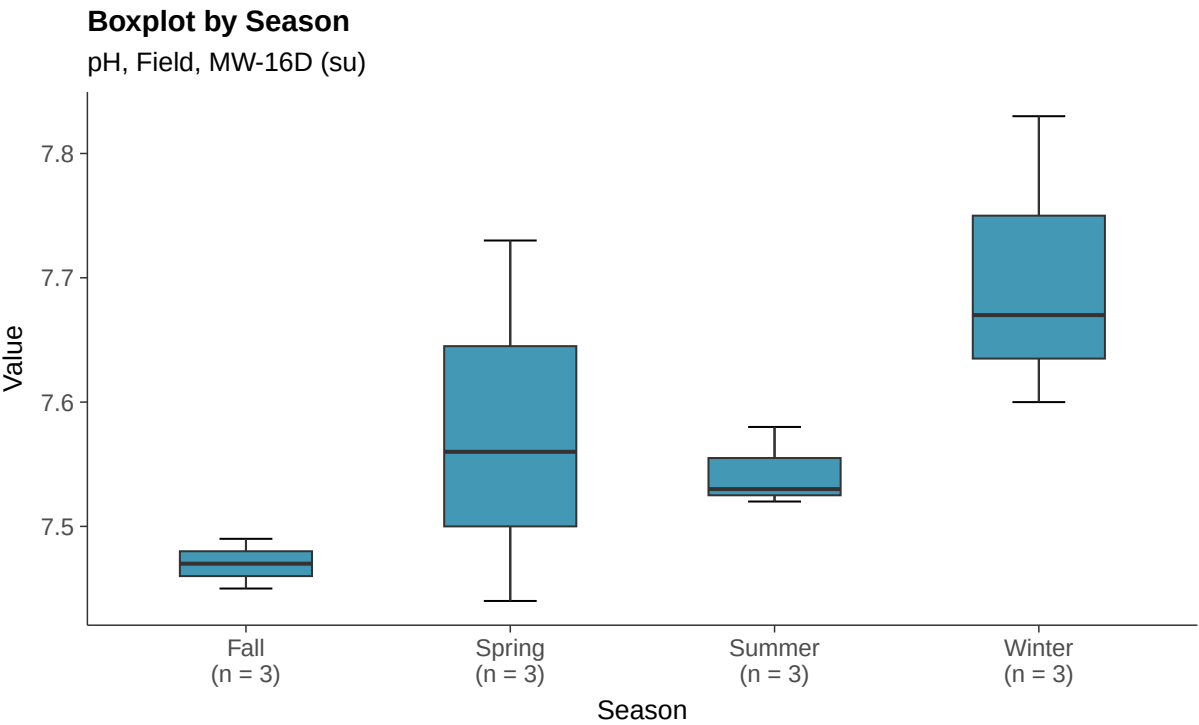
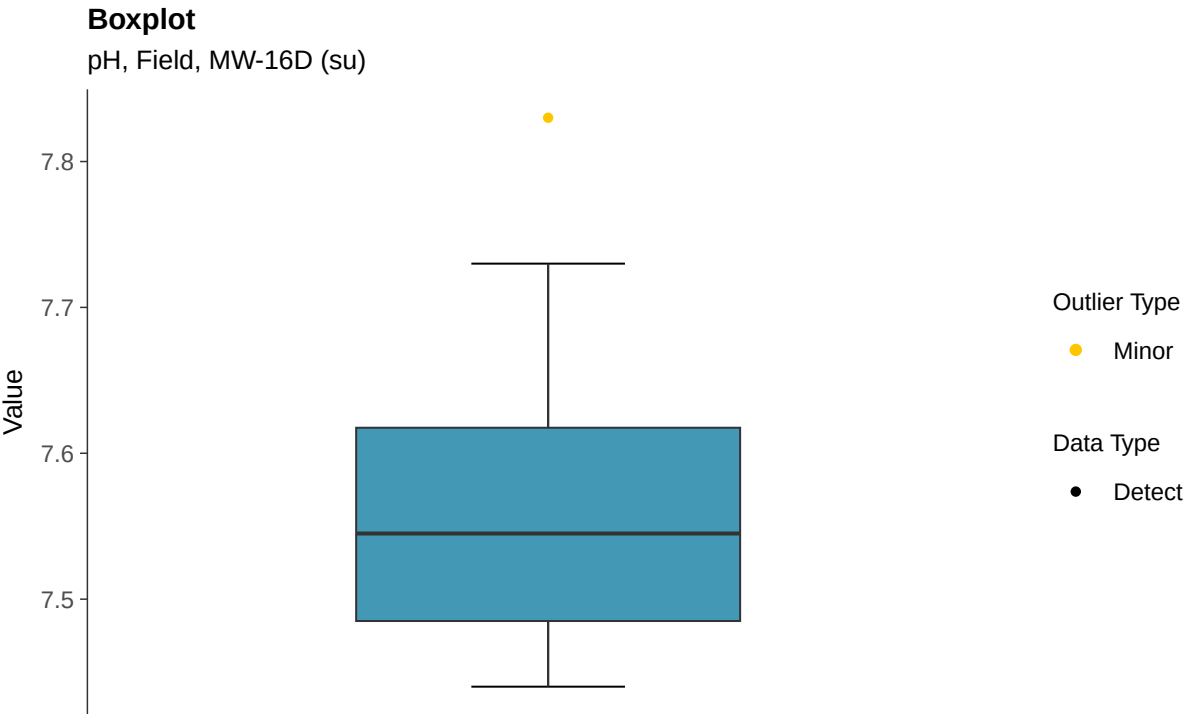


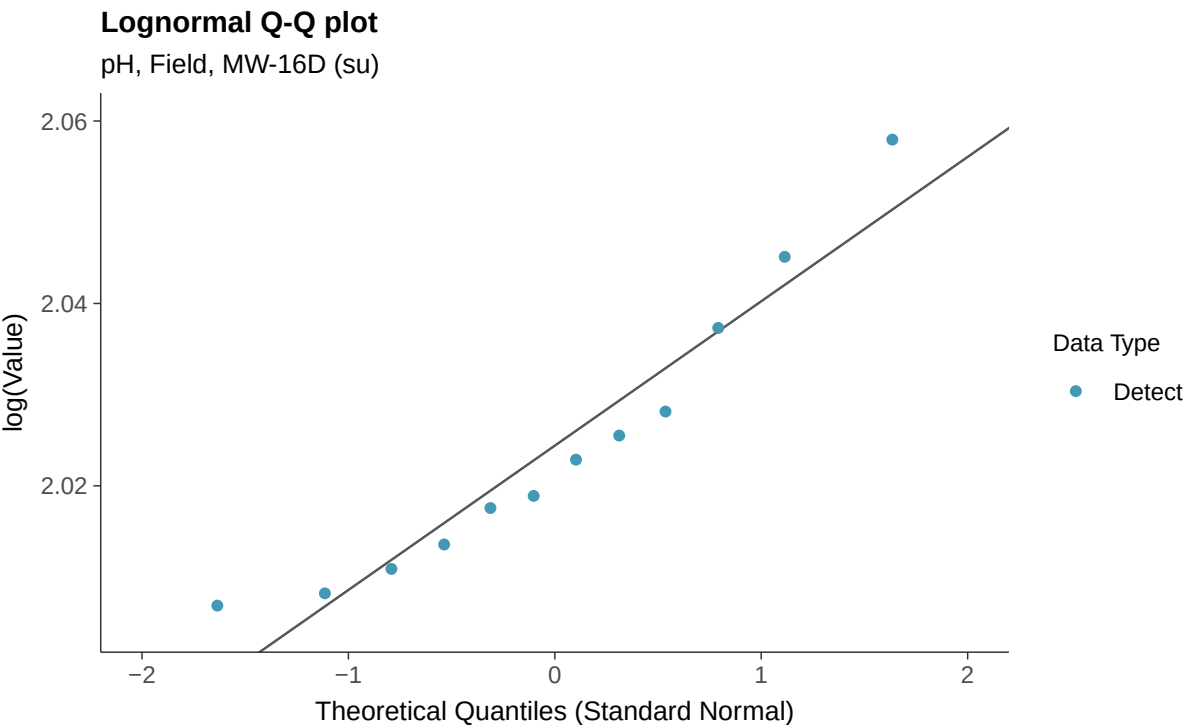
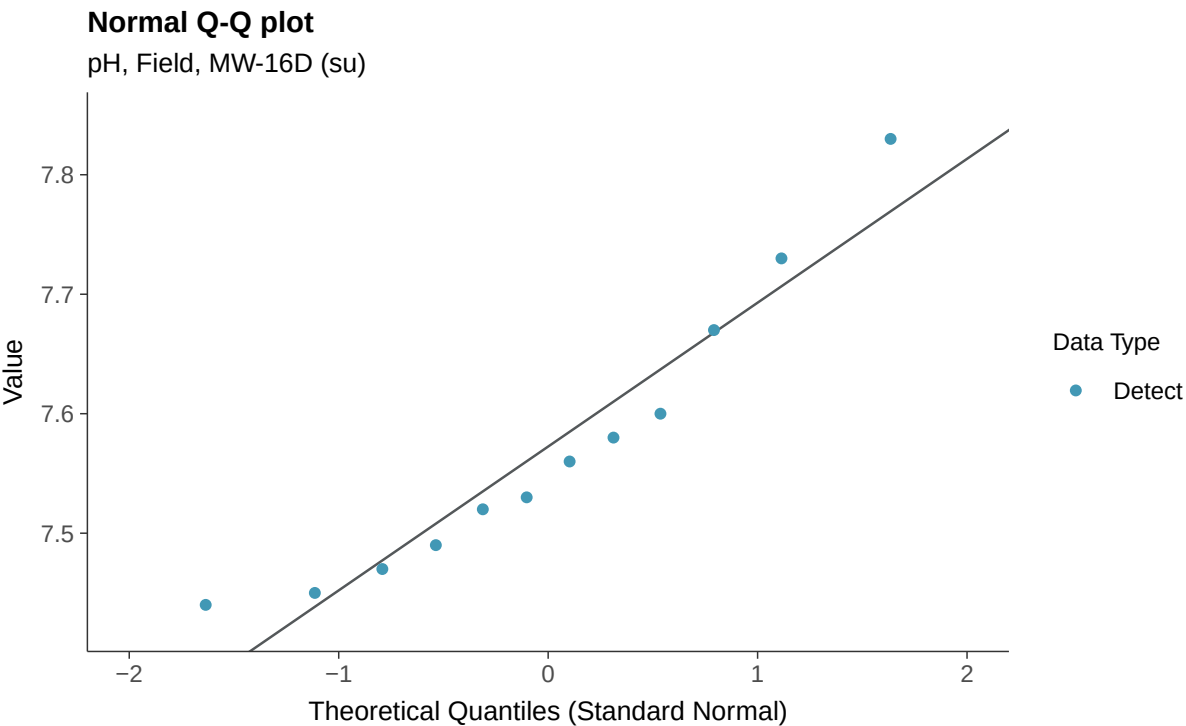


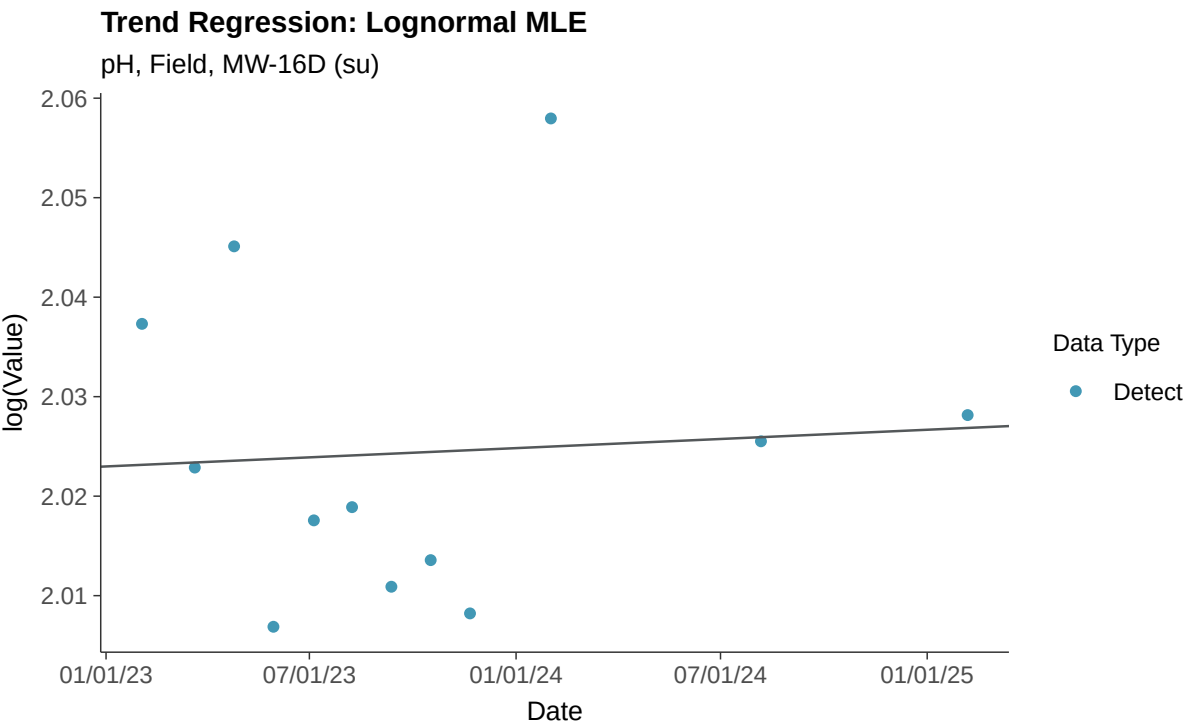
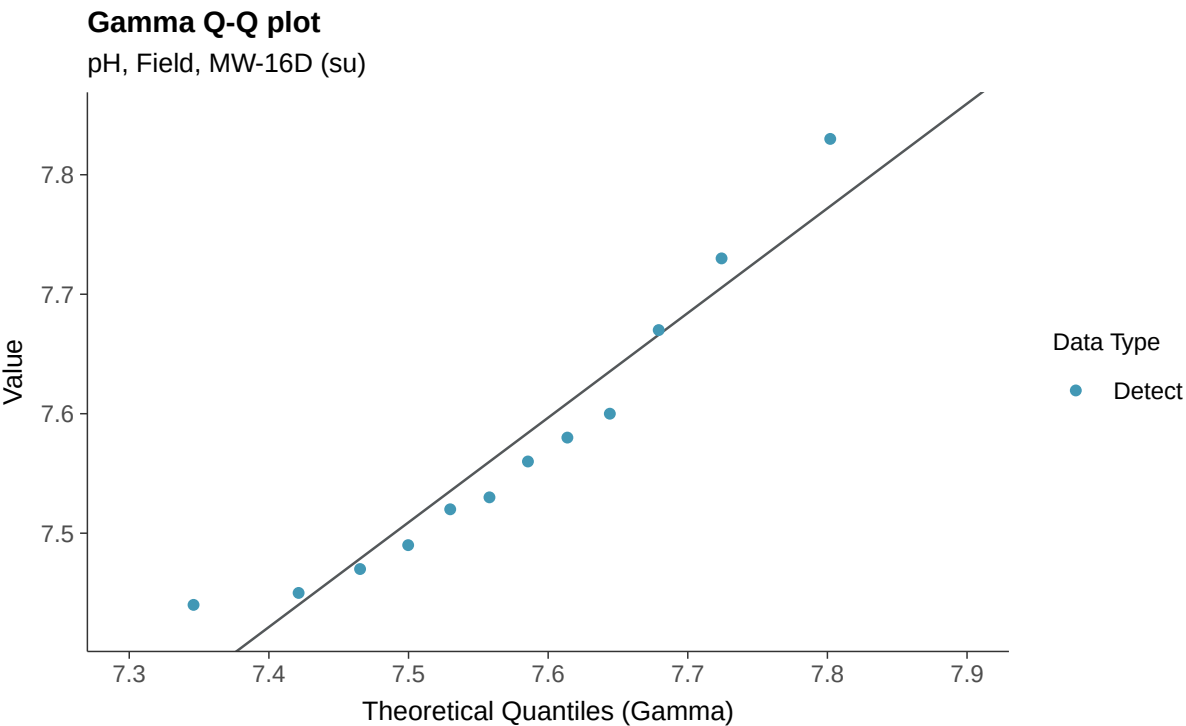
Appendix III: pH, Field, MW-16D

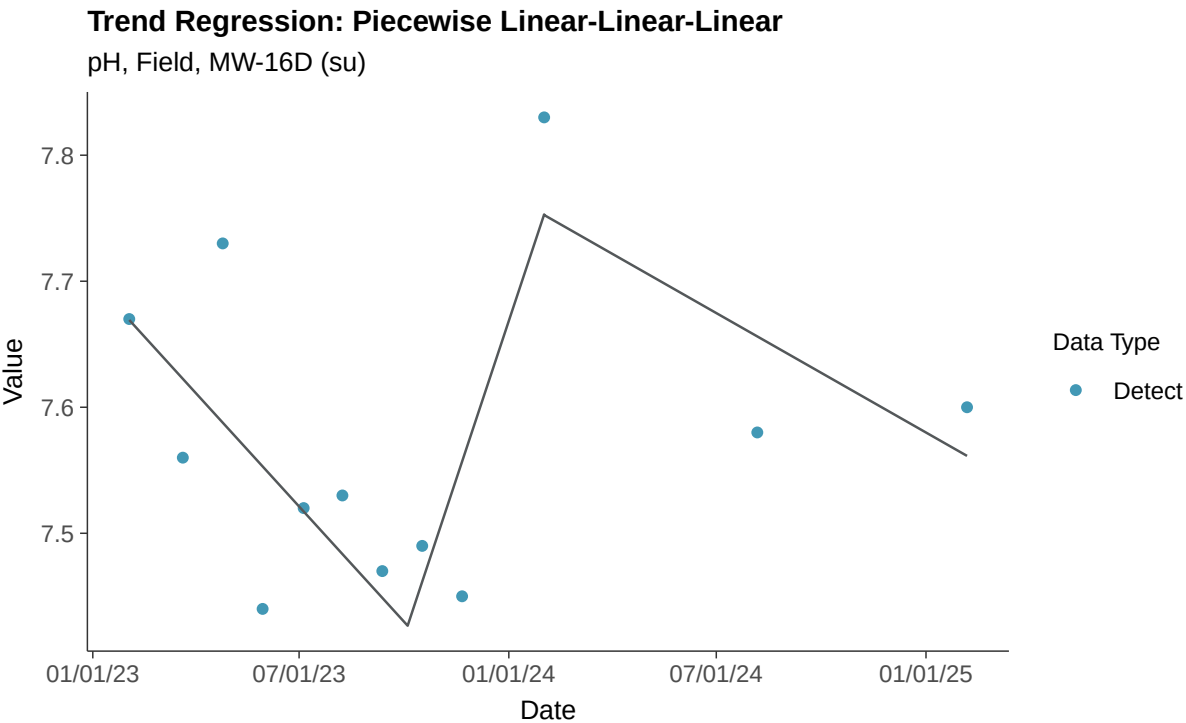
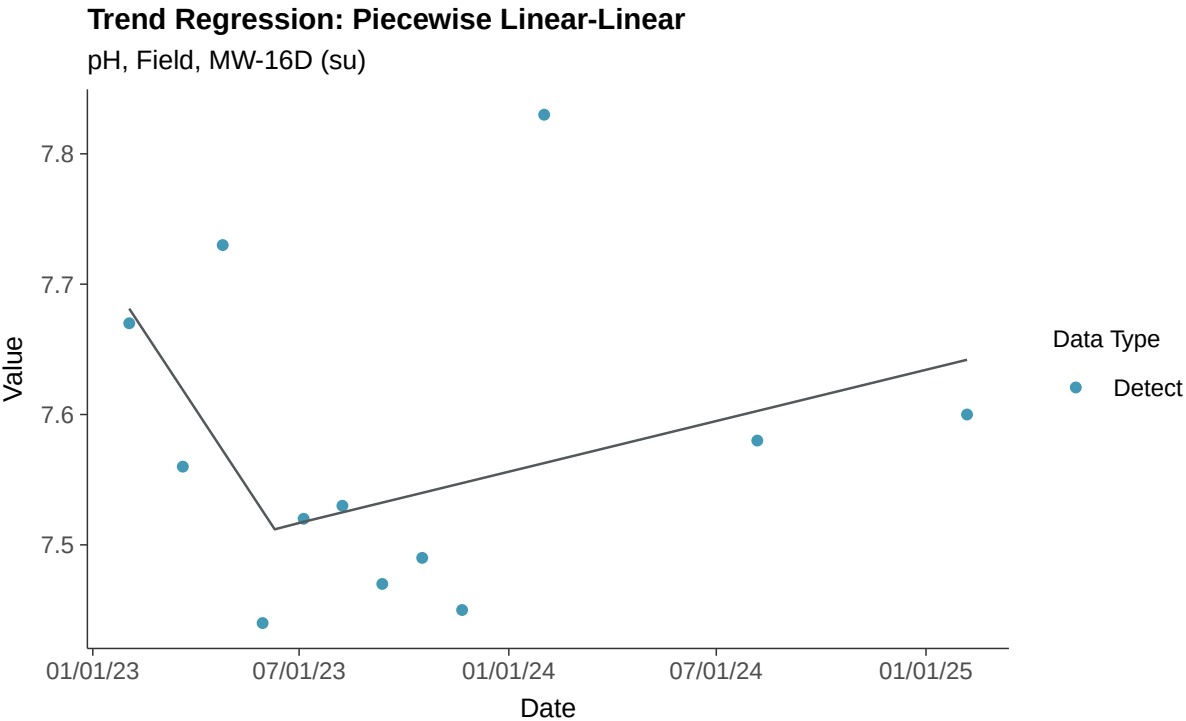
ID: 13_2_120







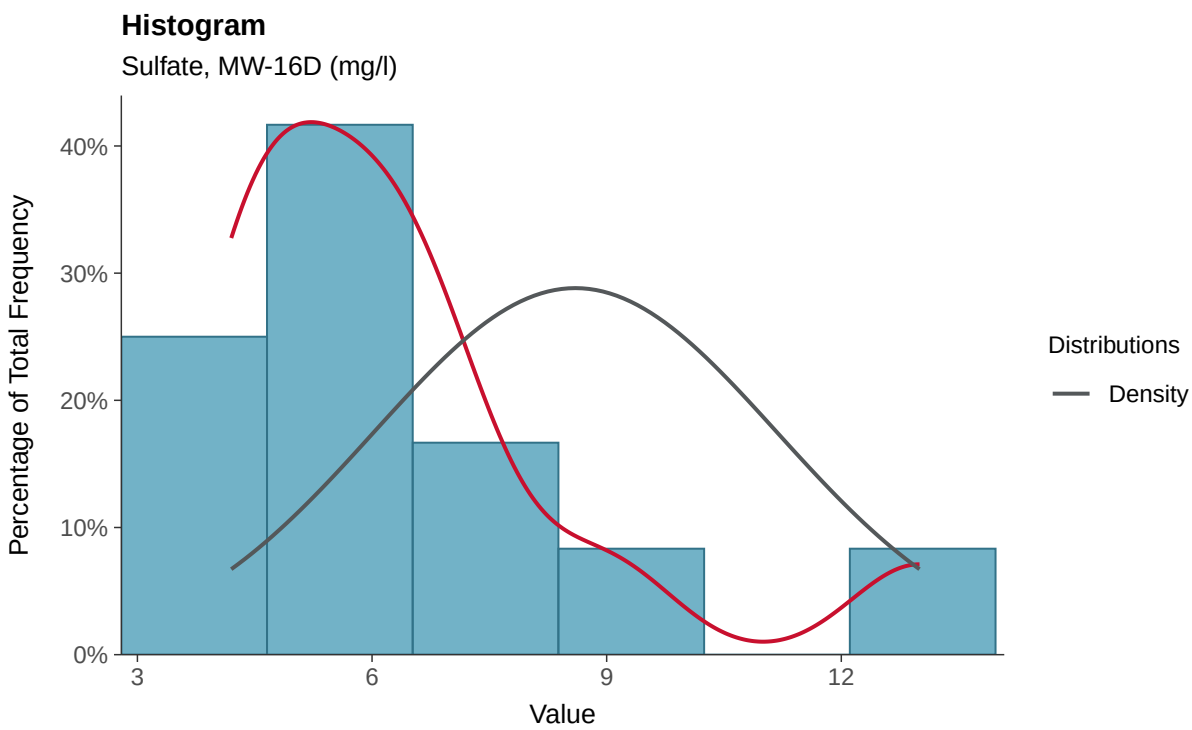
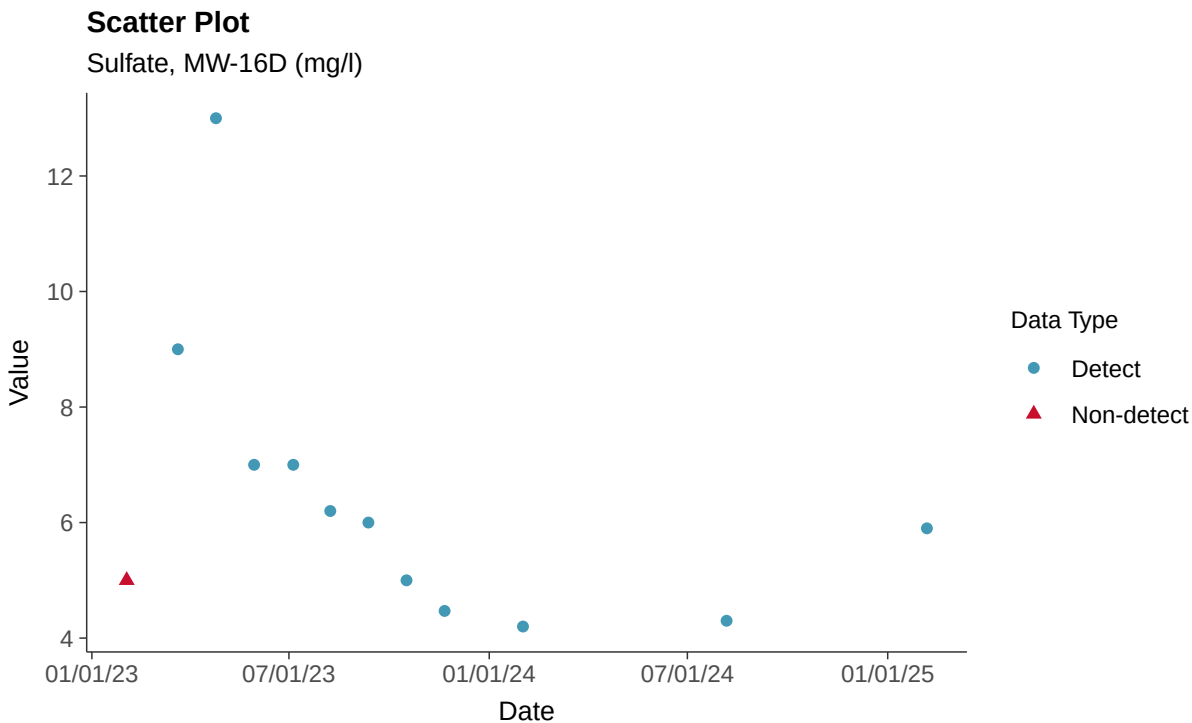


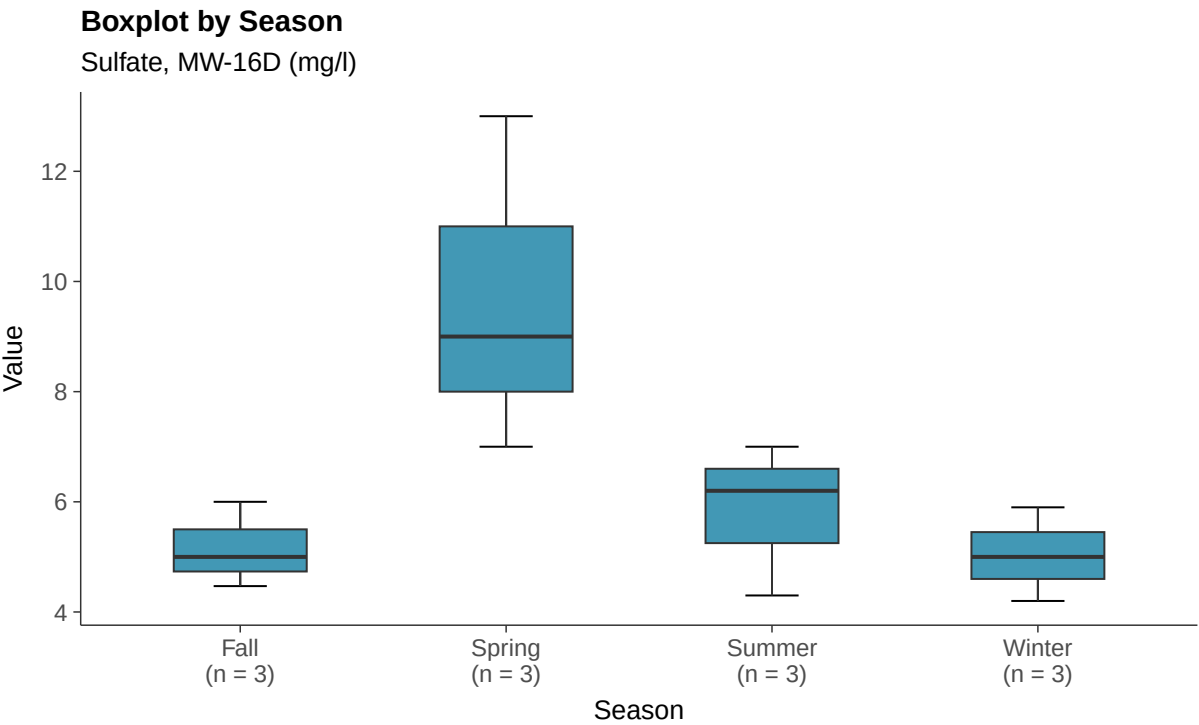
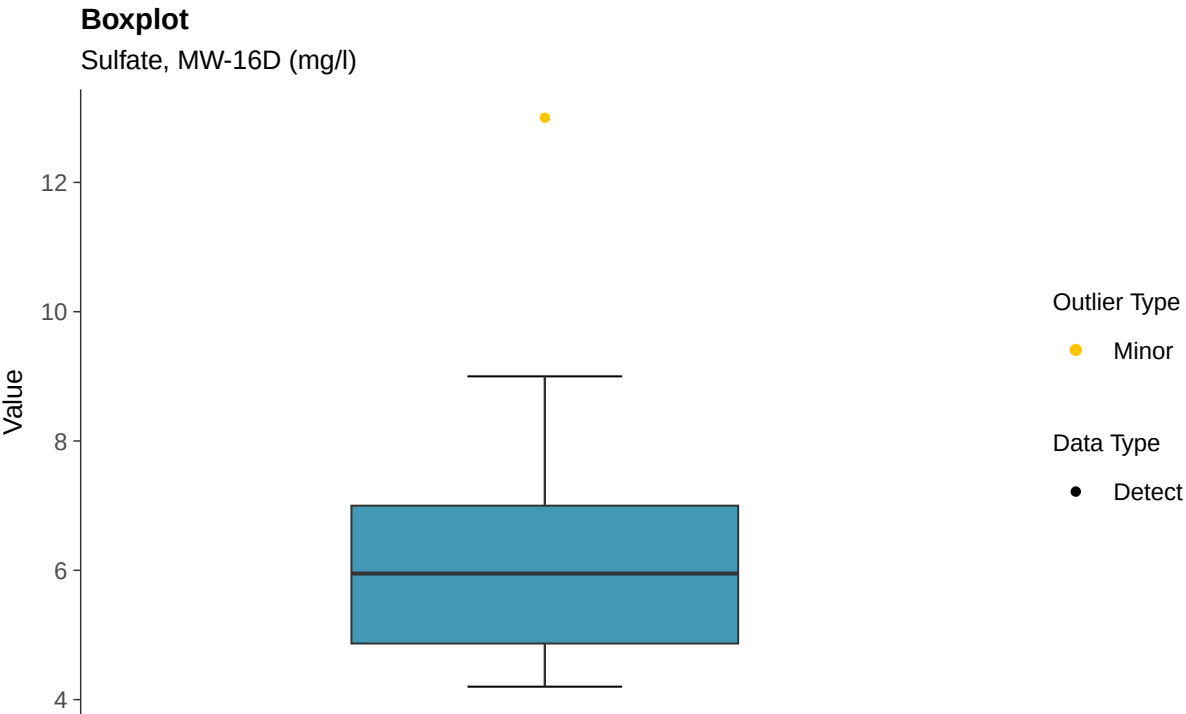




Appendix III: Sulfate, MW-16D

ID: 13_2_124

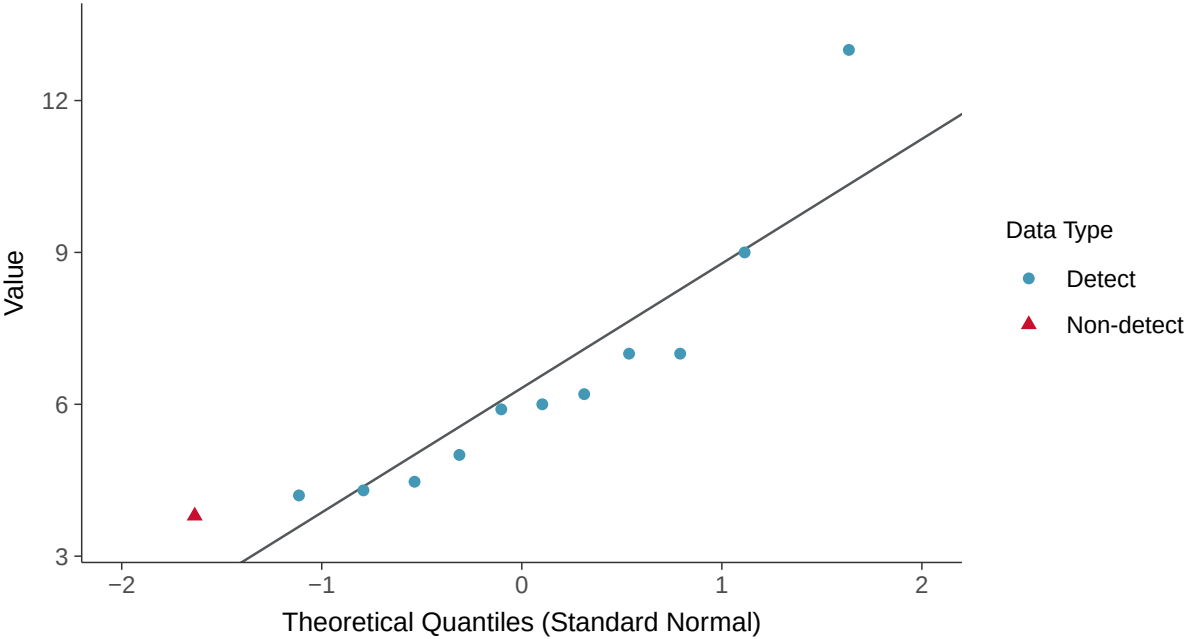






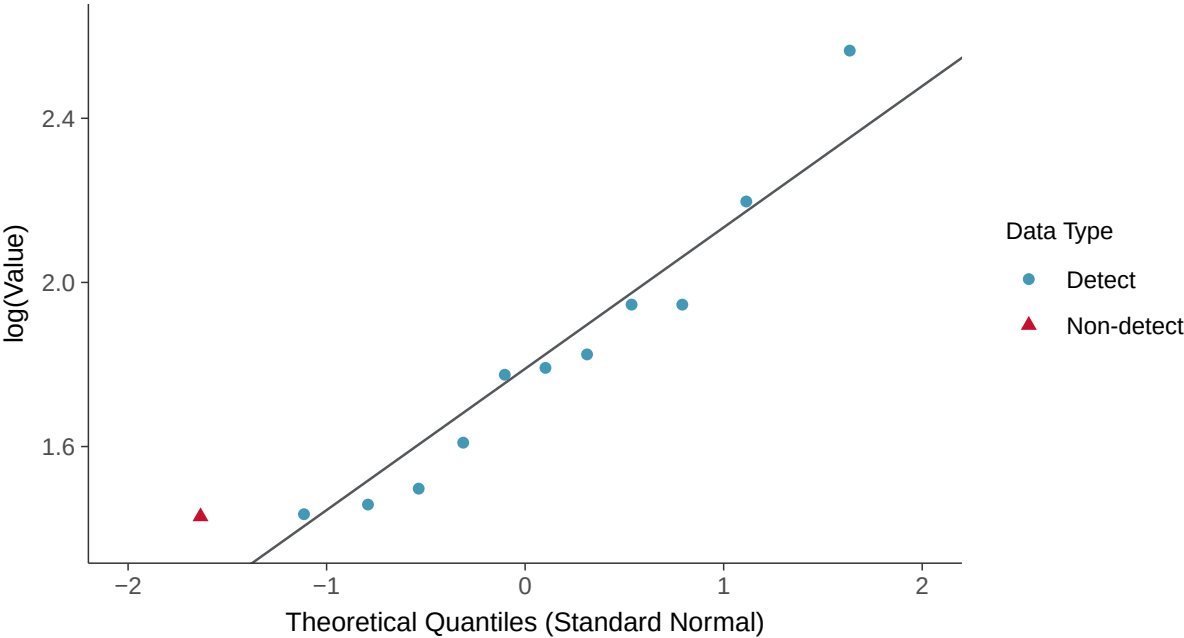
Normal Q-Q plot using ROS Imputed Estimates

Sulfate, MW-16D (mg/l)



Lognormal Q-Q plot using ROS Imputed Estimates

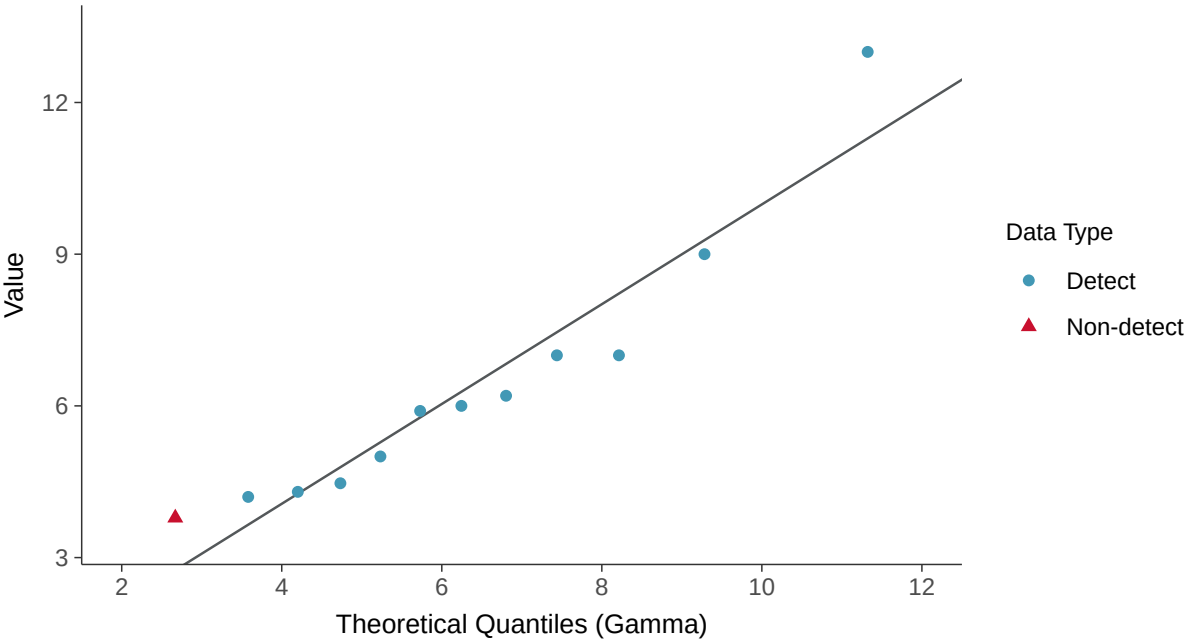
Sulfate, MW-16D (mg/l)





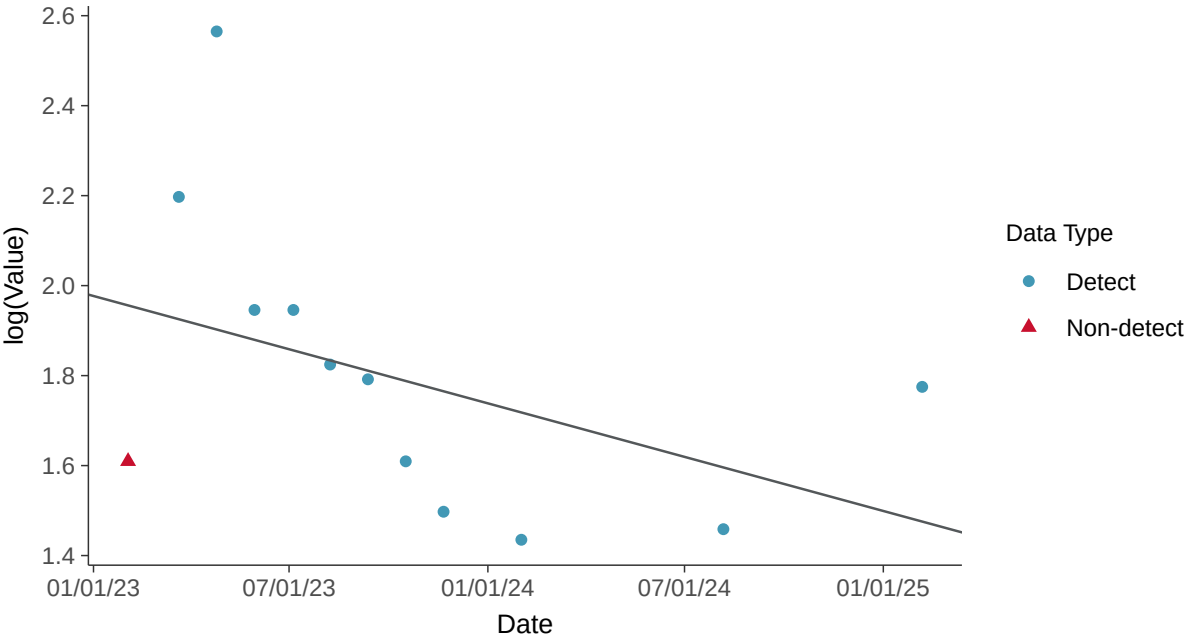
Gamma Q-Q plot using ROS Imputed Estimates

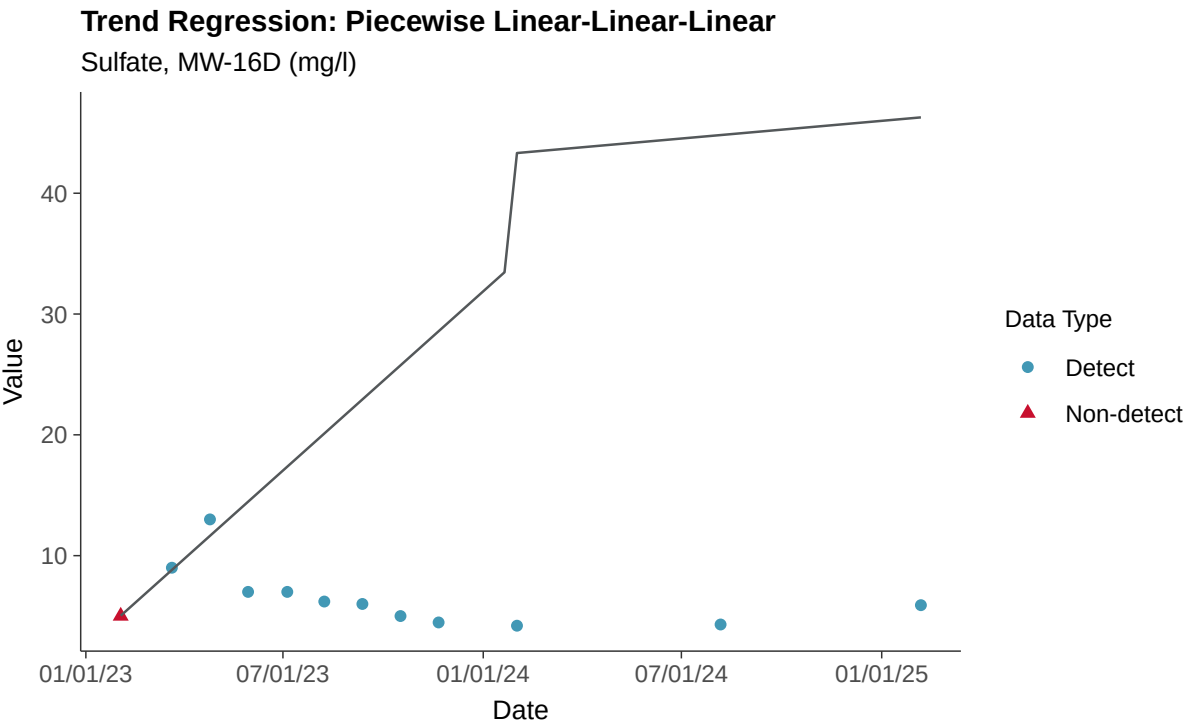
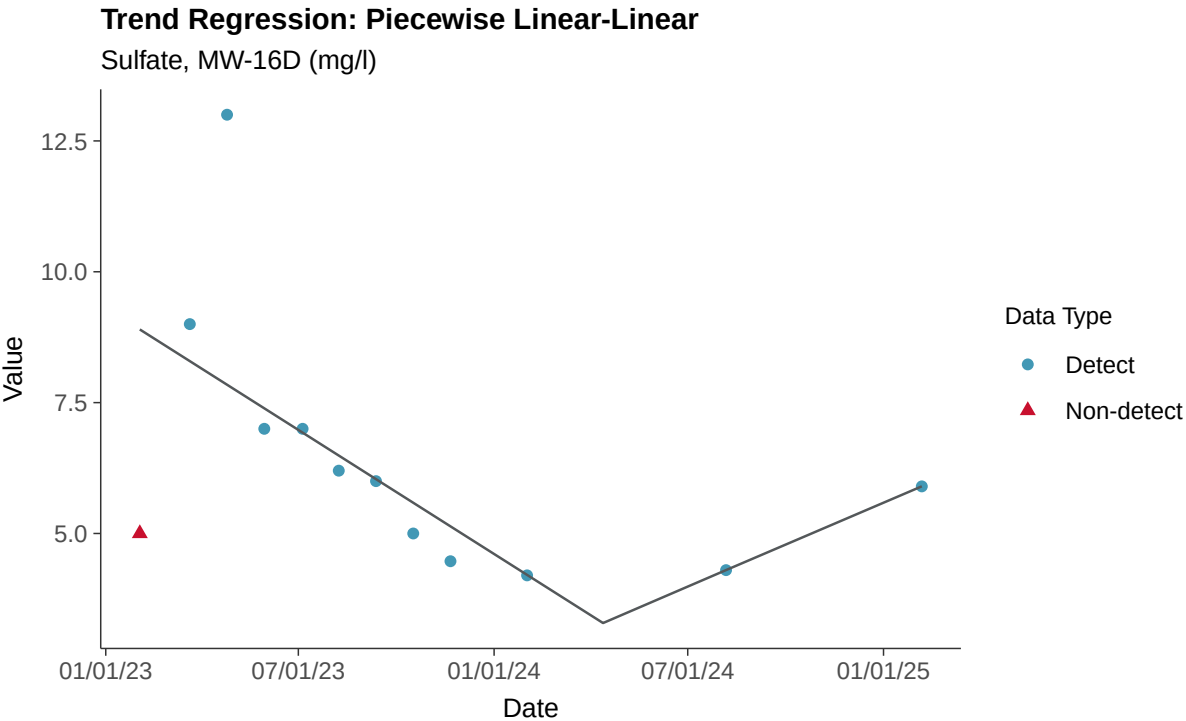
Sulfate, MW-16D (mg/l)



Trend Regression: Lognormal MLE

Sulfate, MW-16D (mg/l)

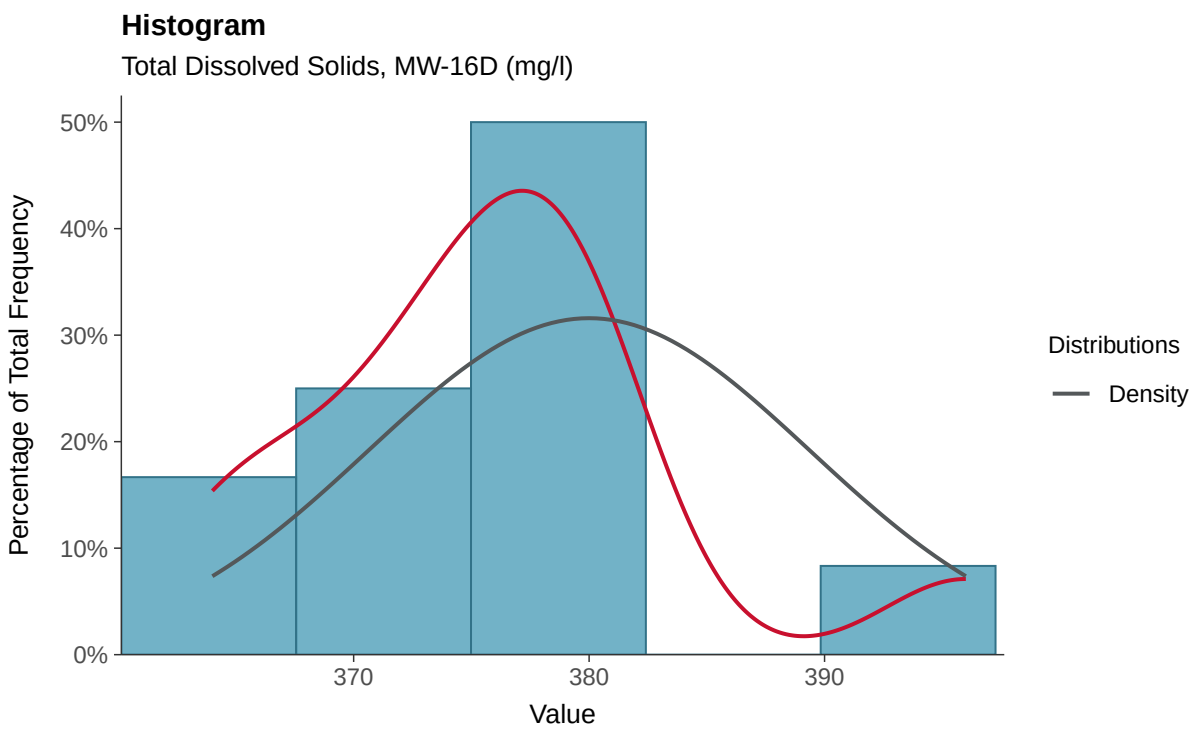
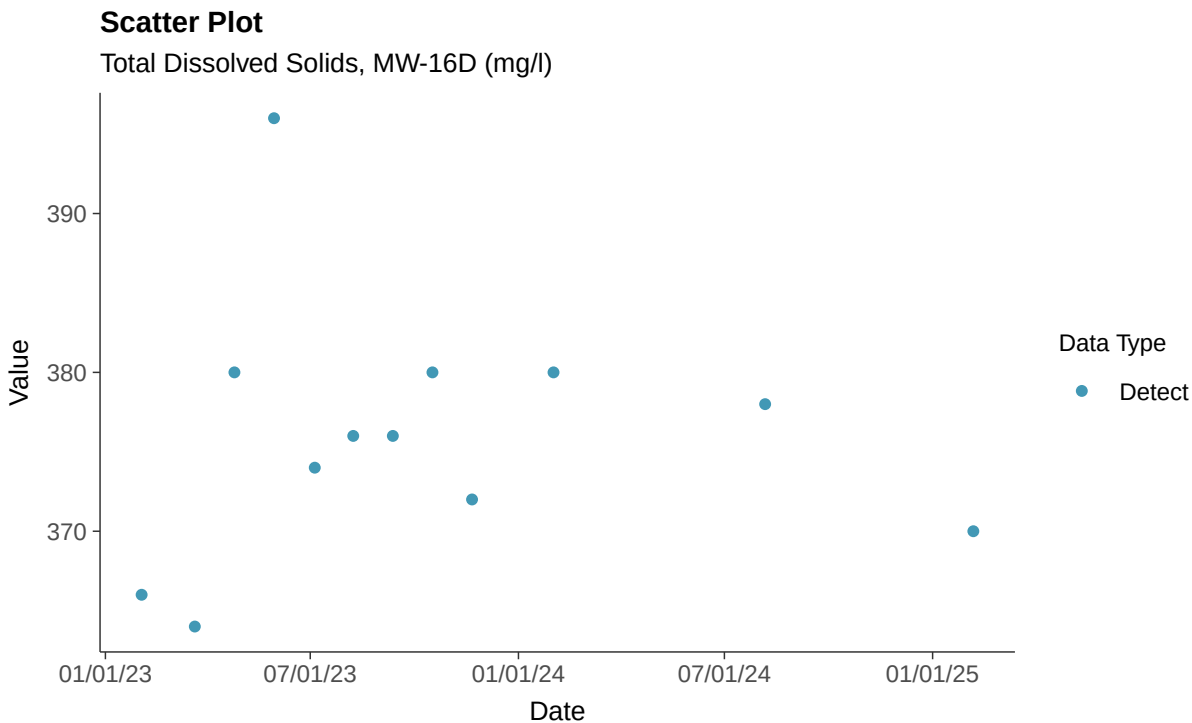


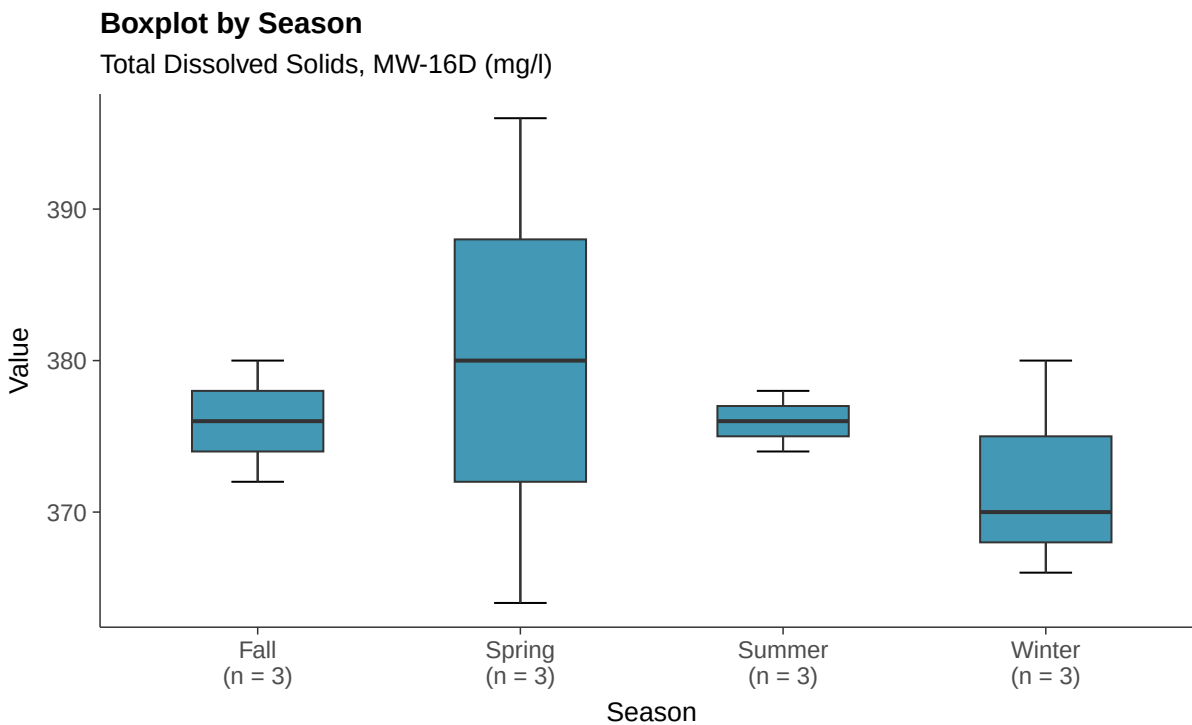
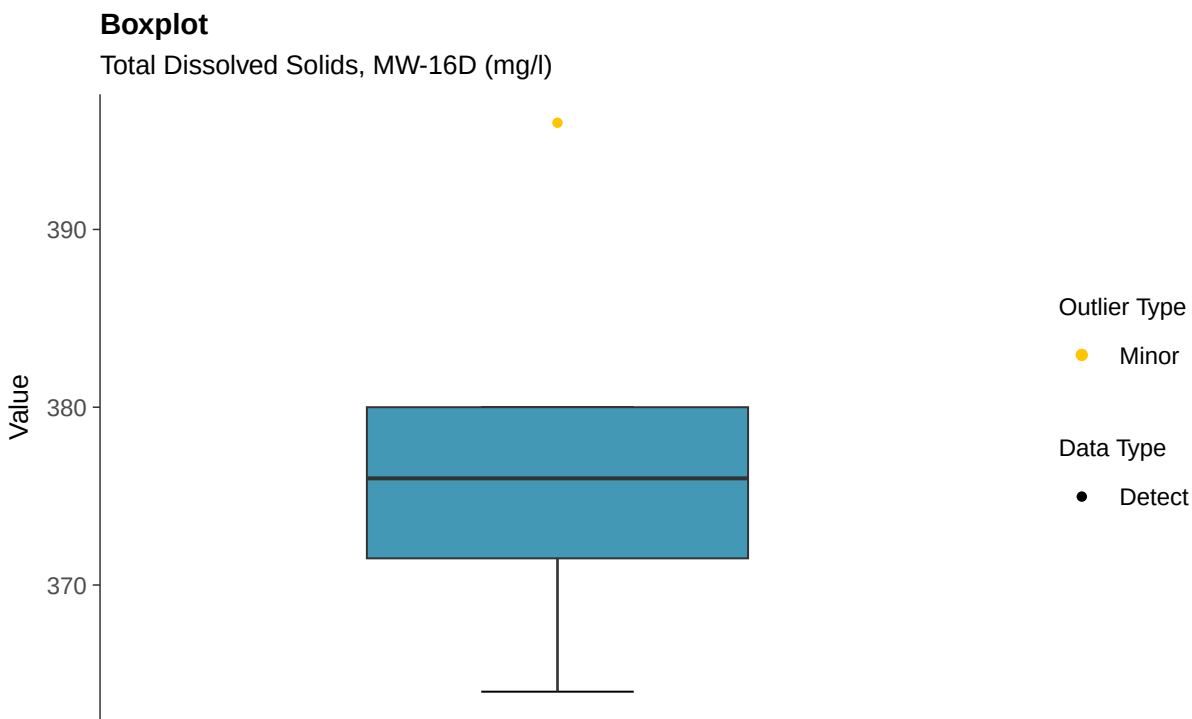




Appendix III: Total Dissolved Solids, MW-16D

ID: 13_2_126

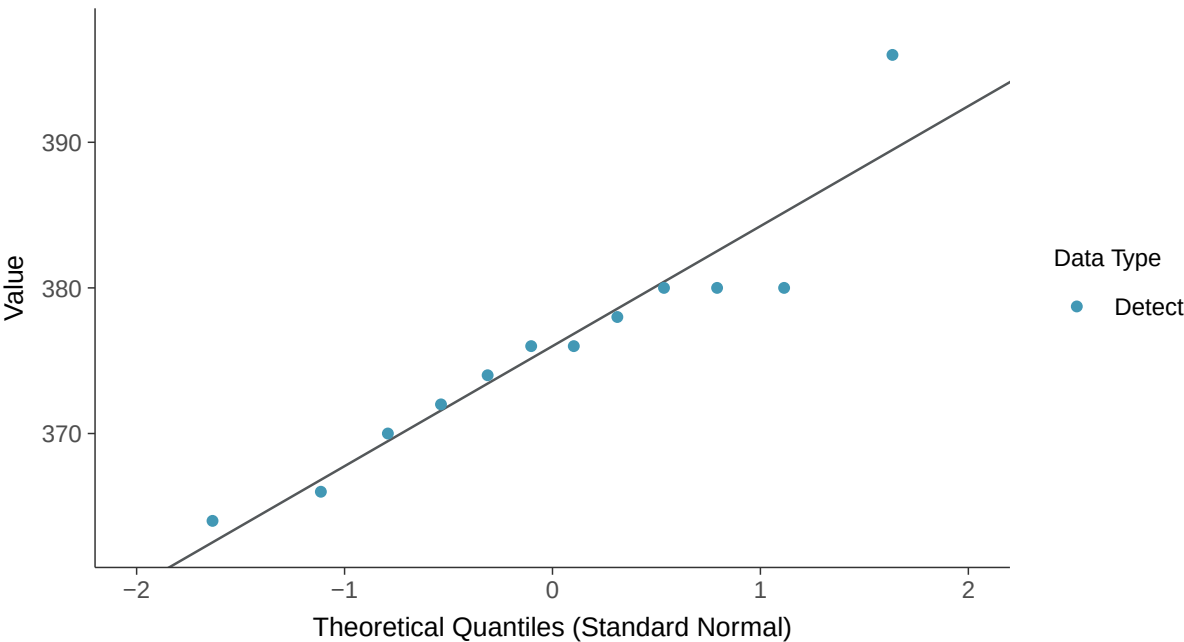






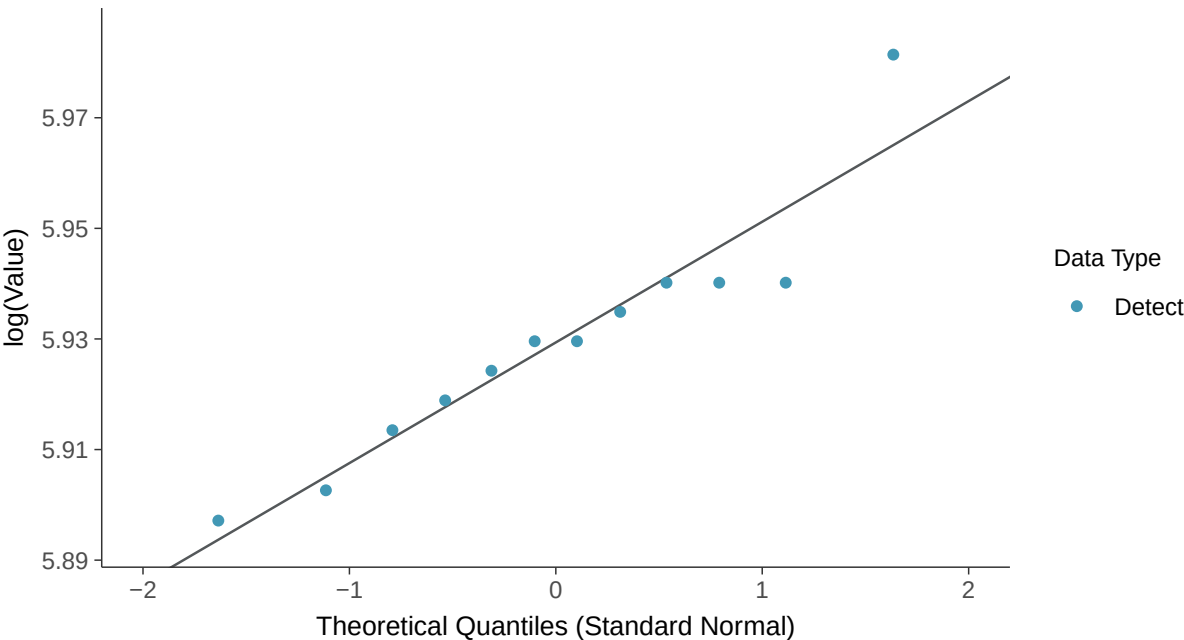
Normal Q-Q plot

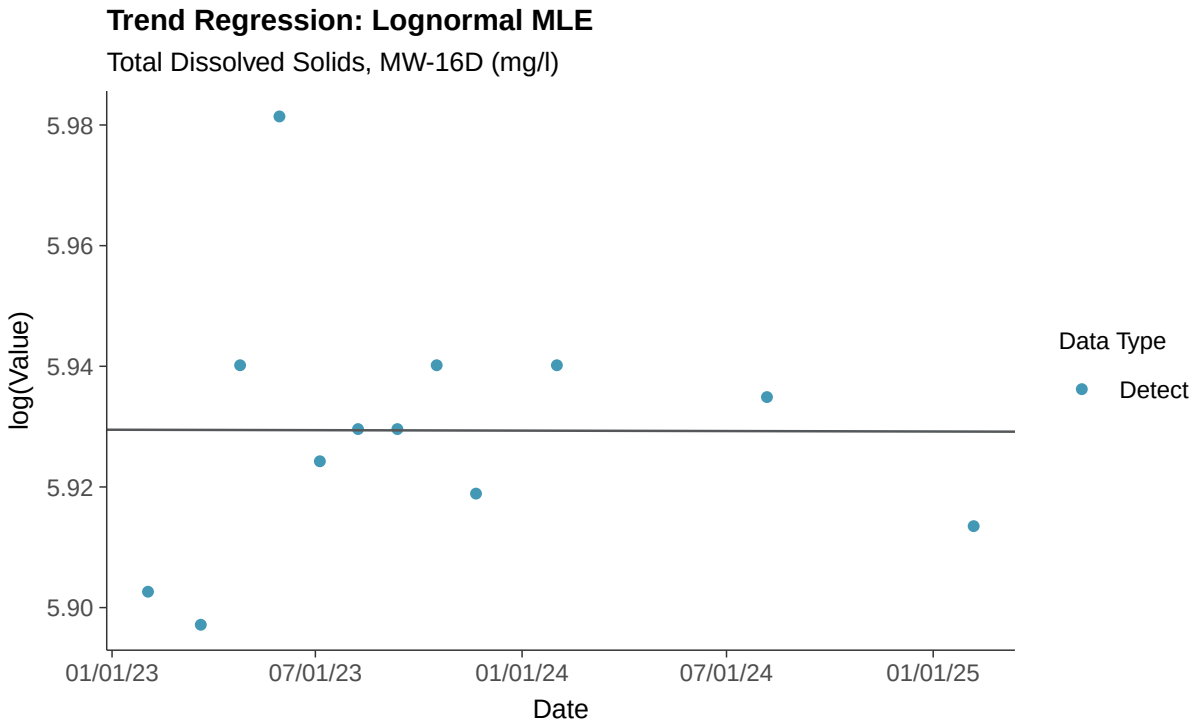
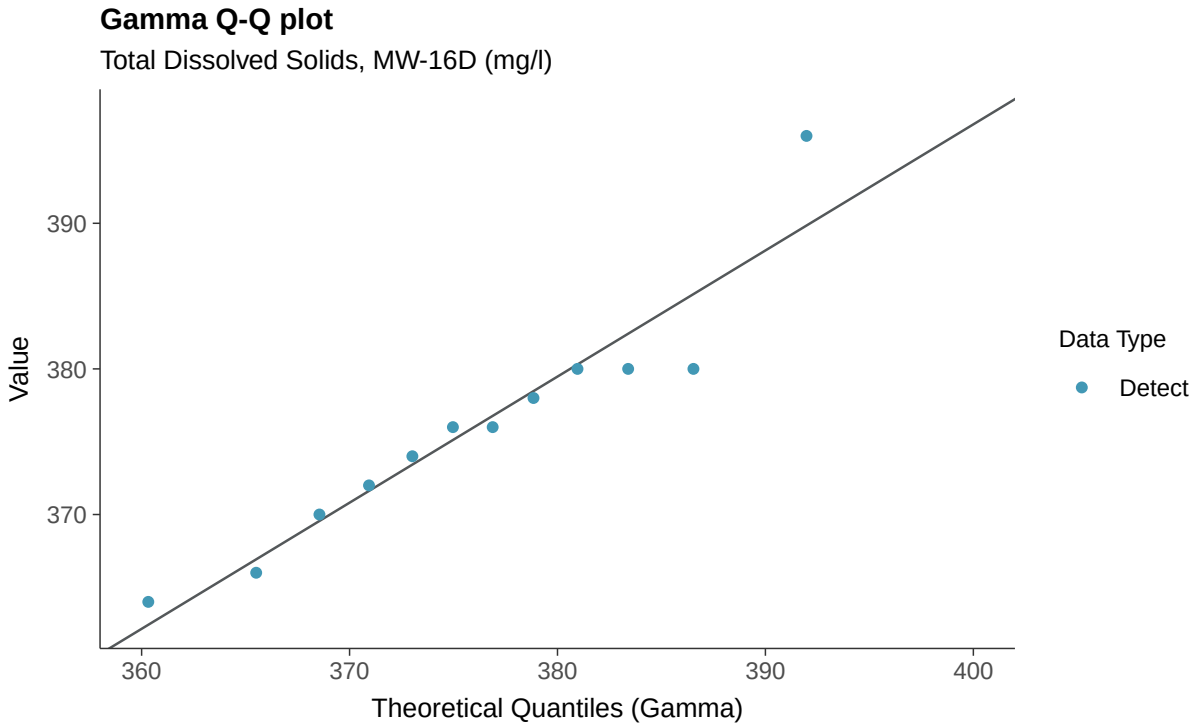
Total Dissolved Solids, MW-16D (mg/l)

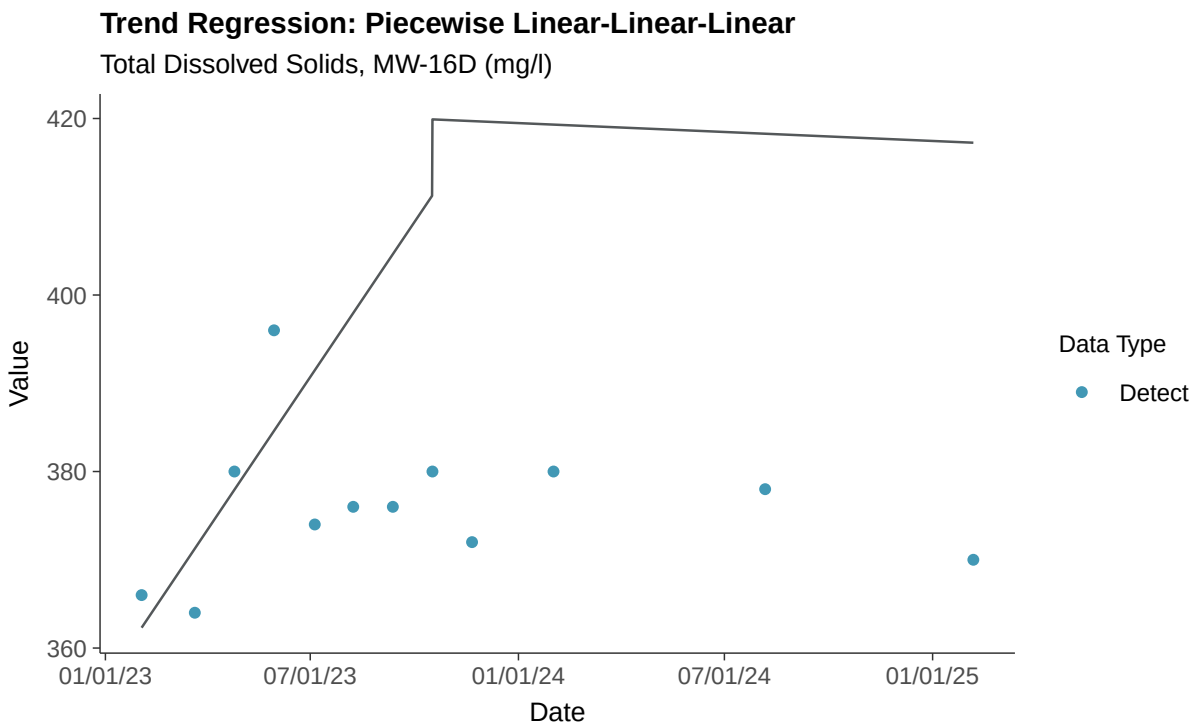
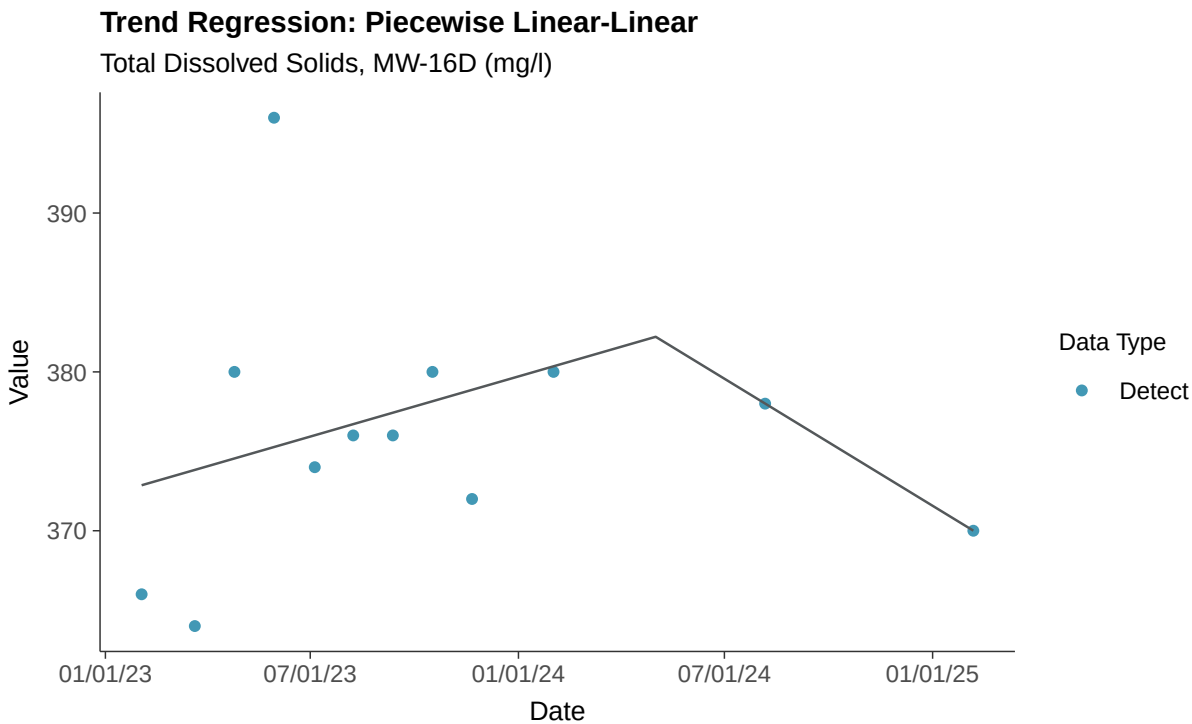


Lognormal Q-Q plot

Total Dissolved Solids, MW-16D (mg/l)



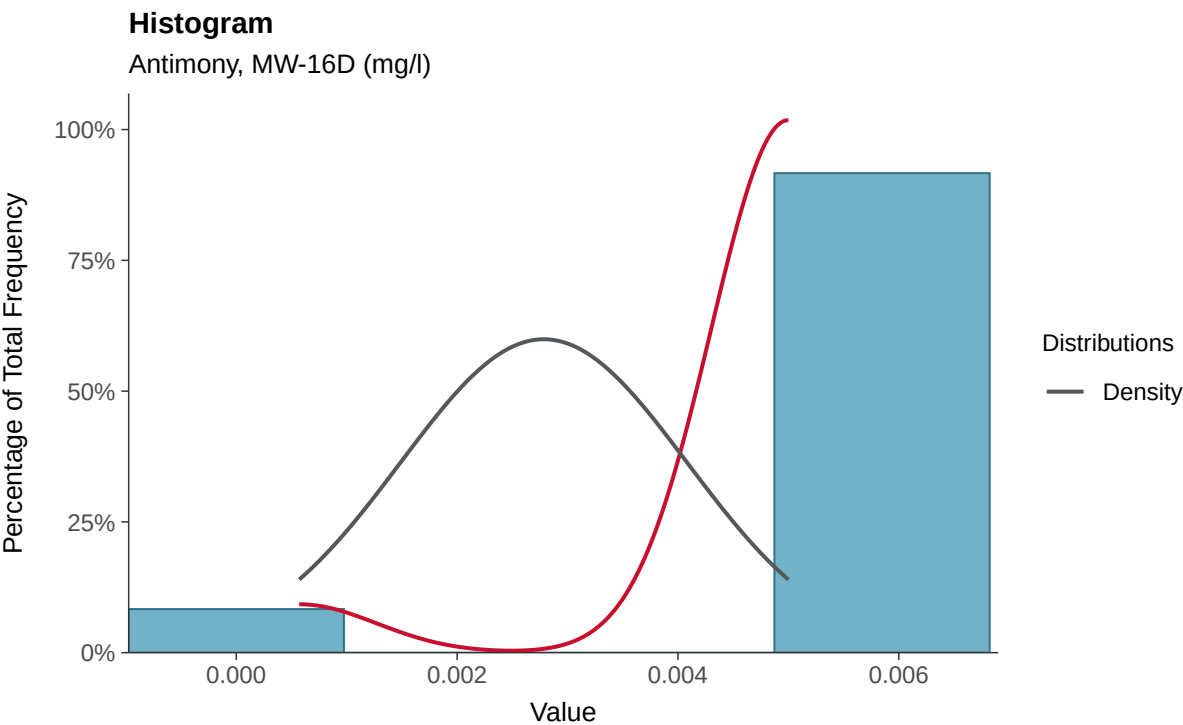
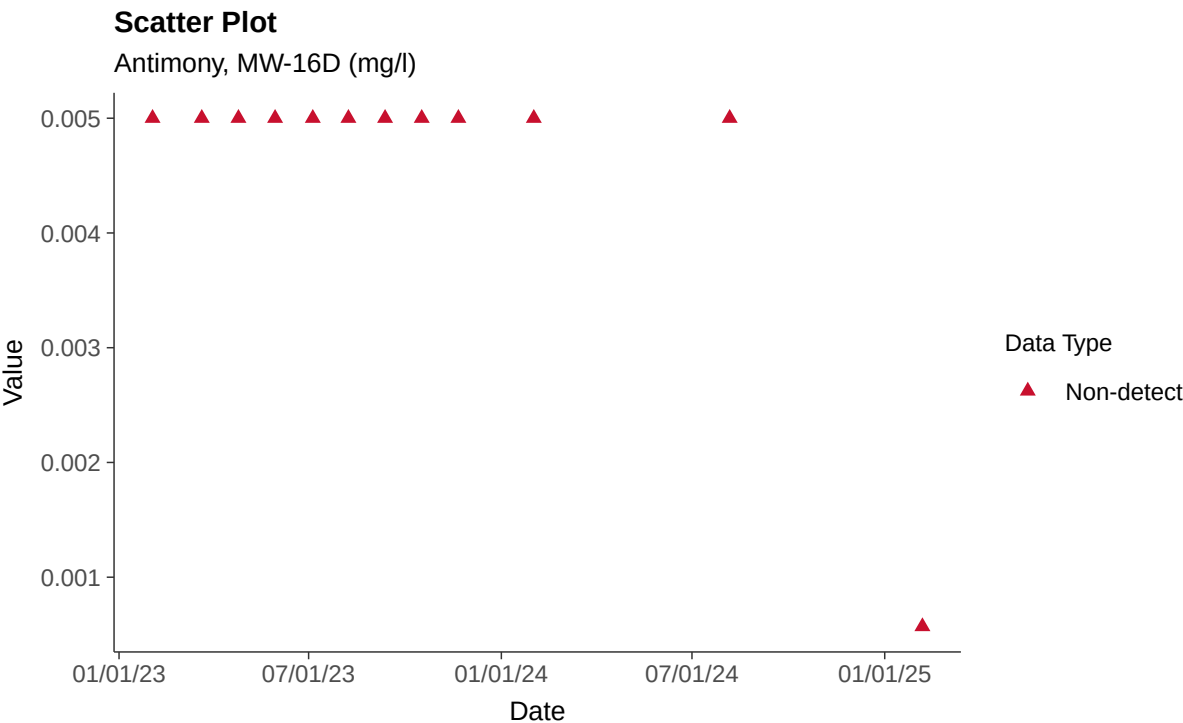


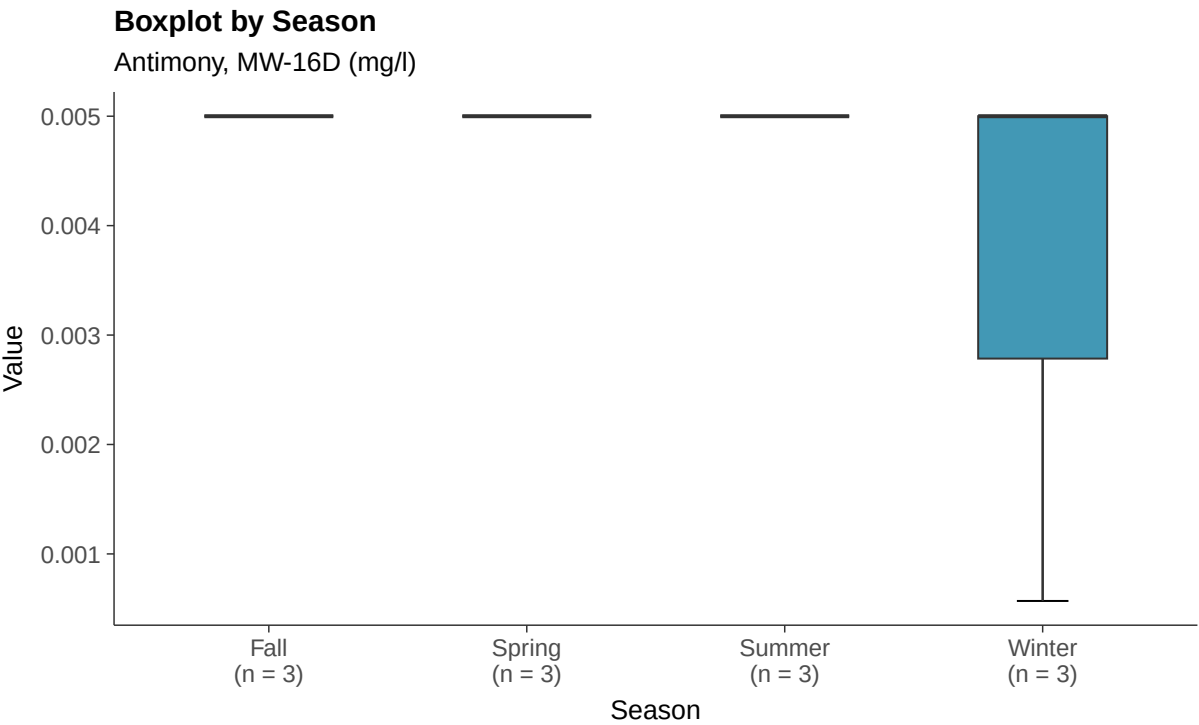
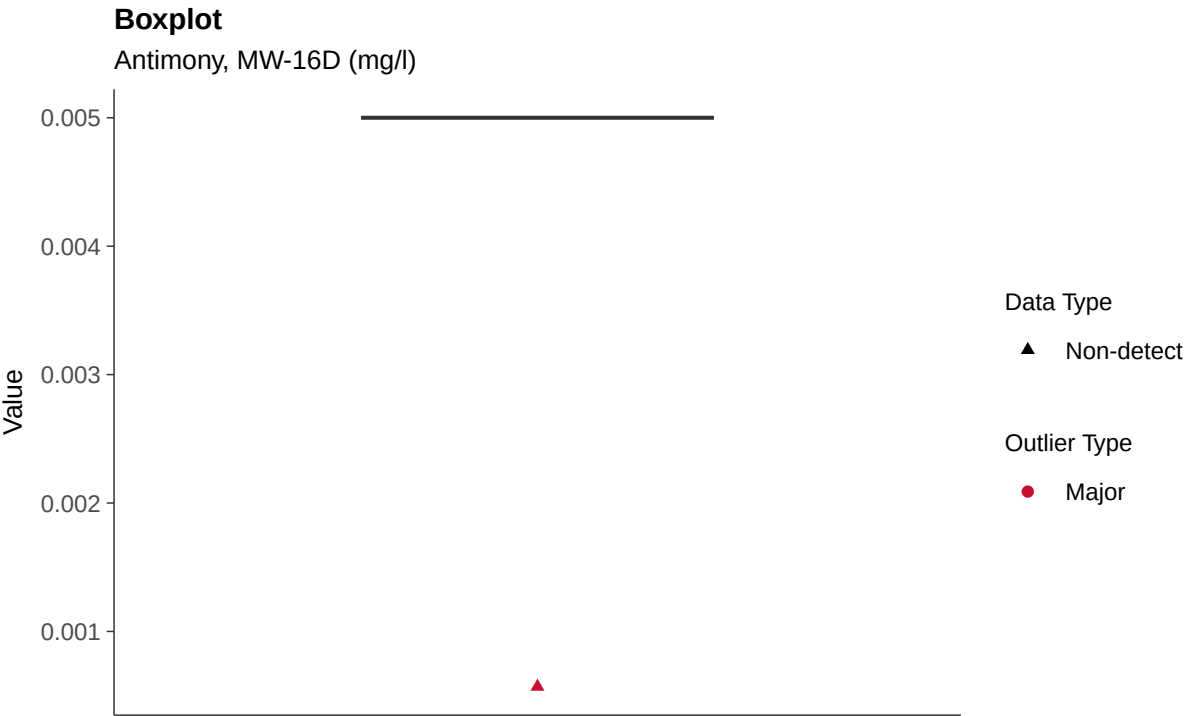




Appendix IV: Antimony, MW-16D

ID: 13_3_101

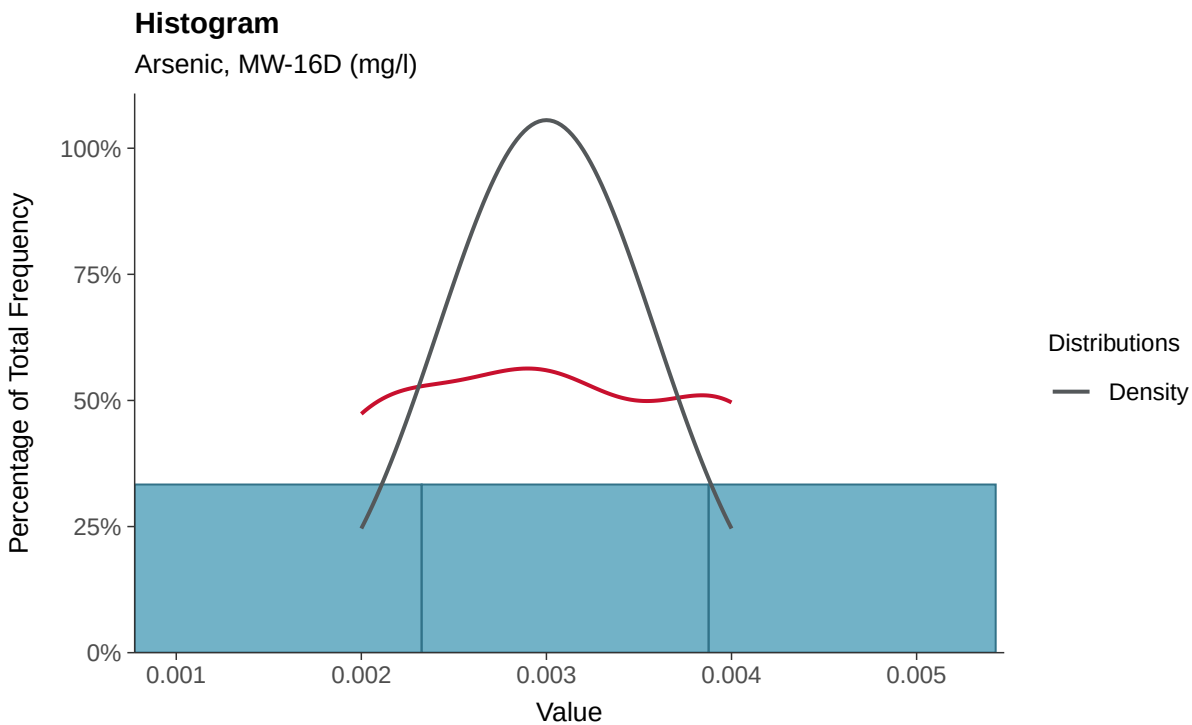
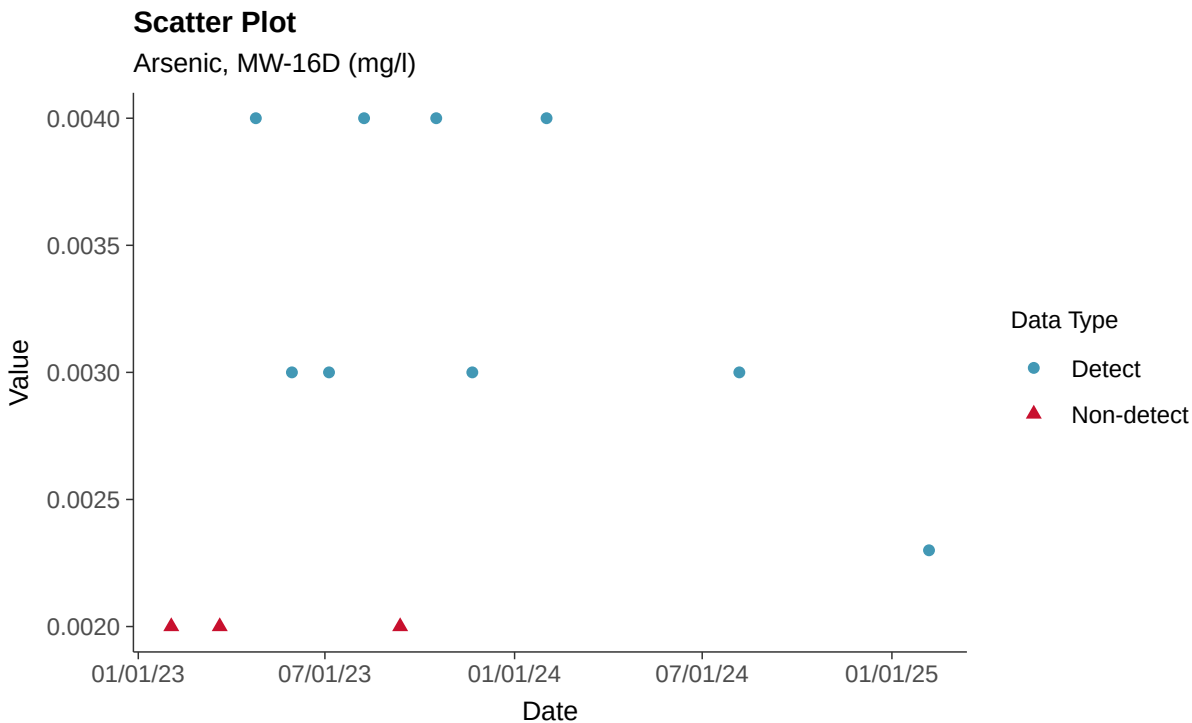


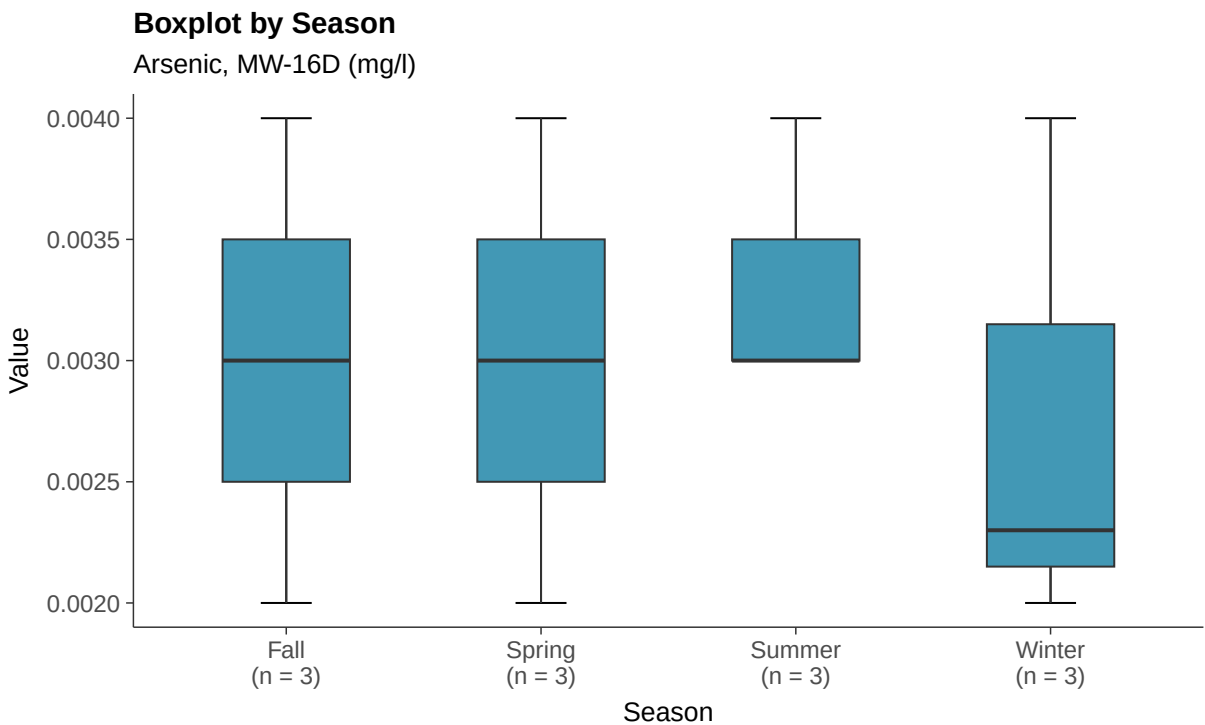
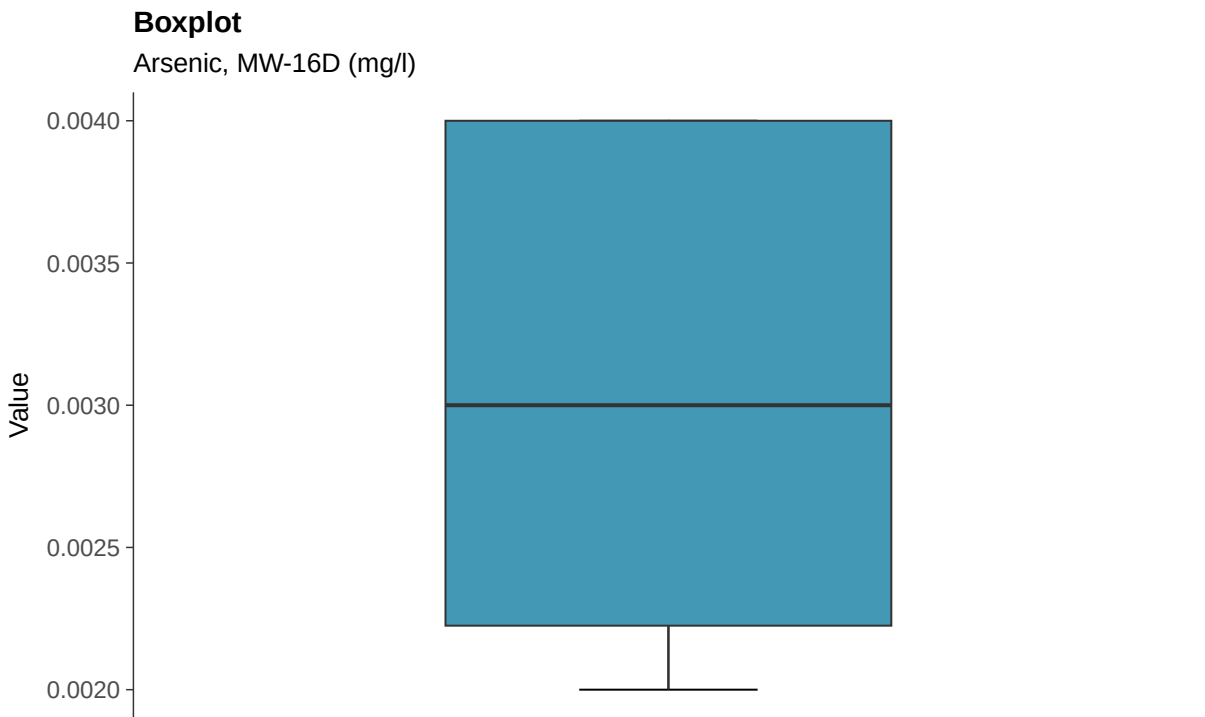


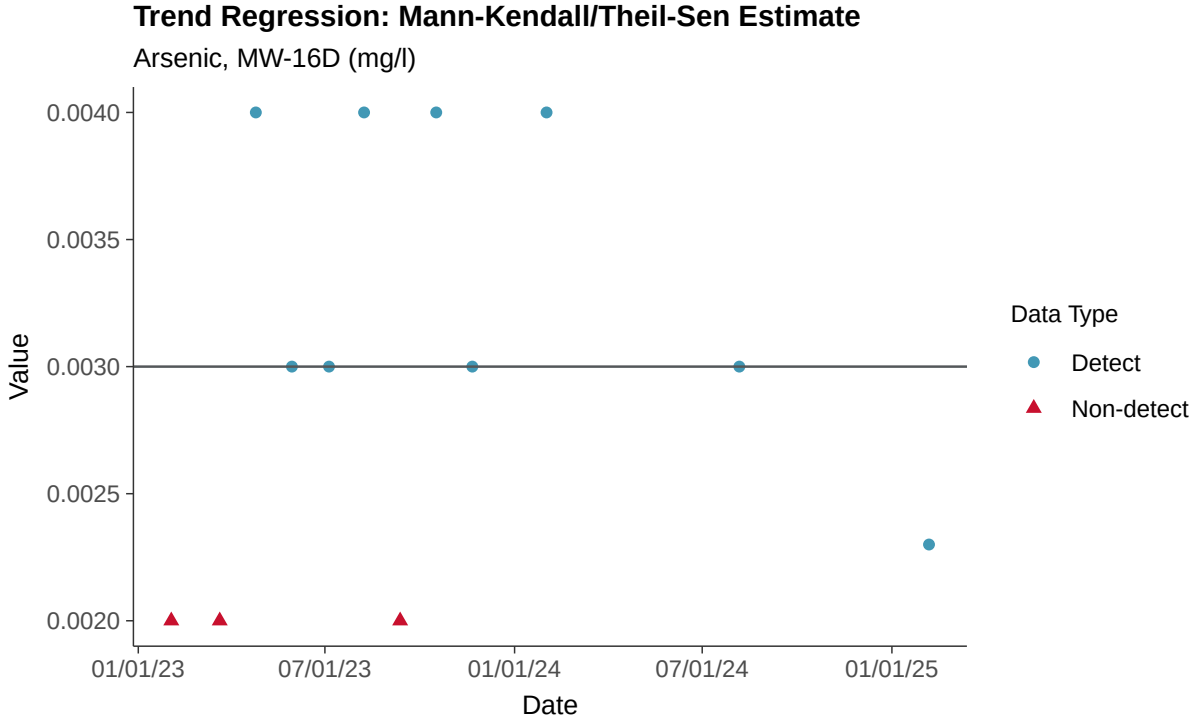
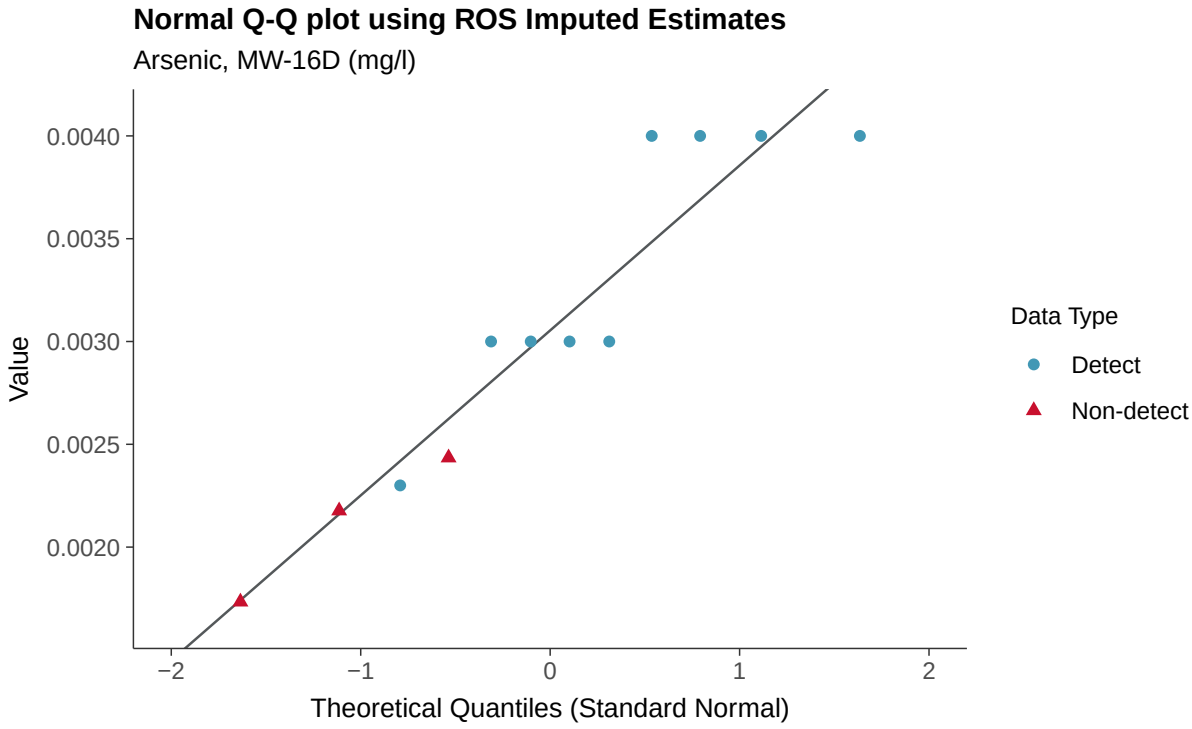


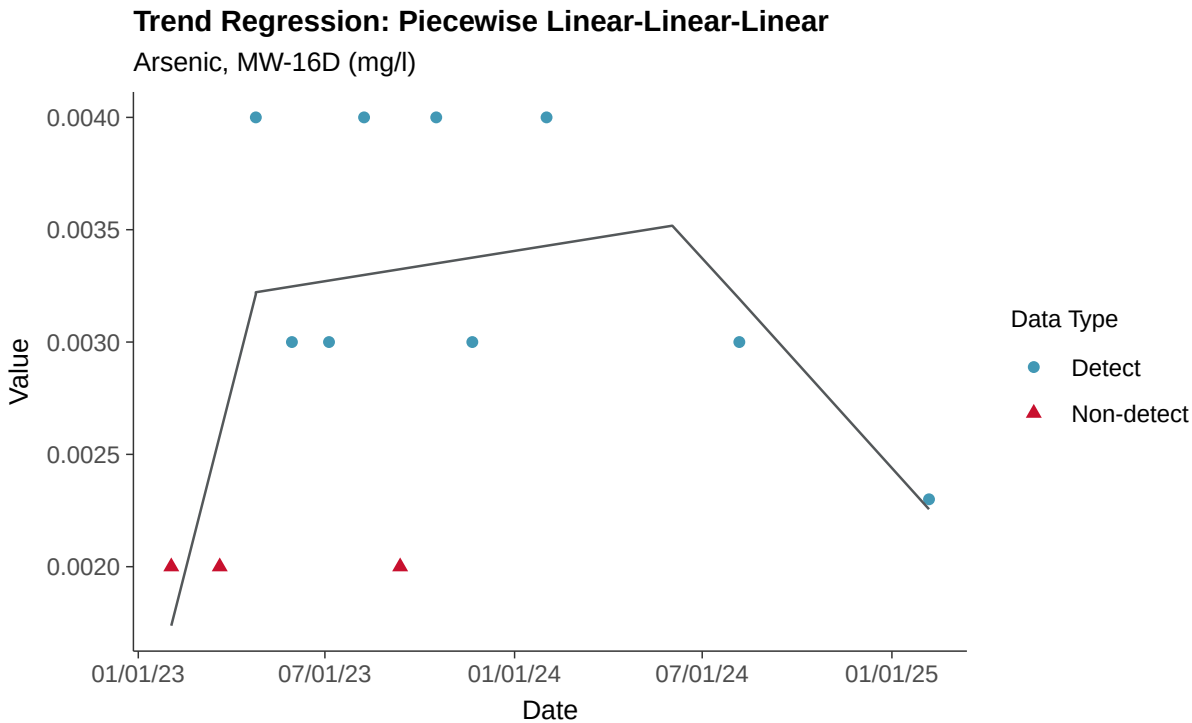
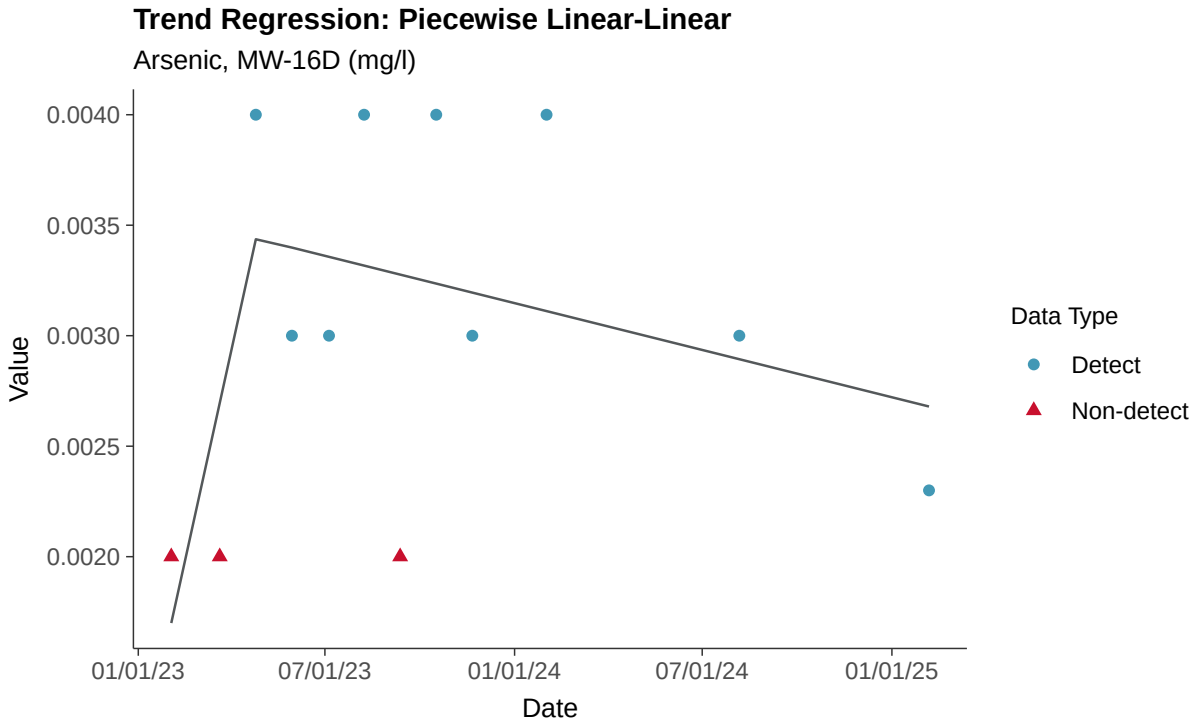
Appendix IV: Arsenic, MW-16D

ID: 13_3_102





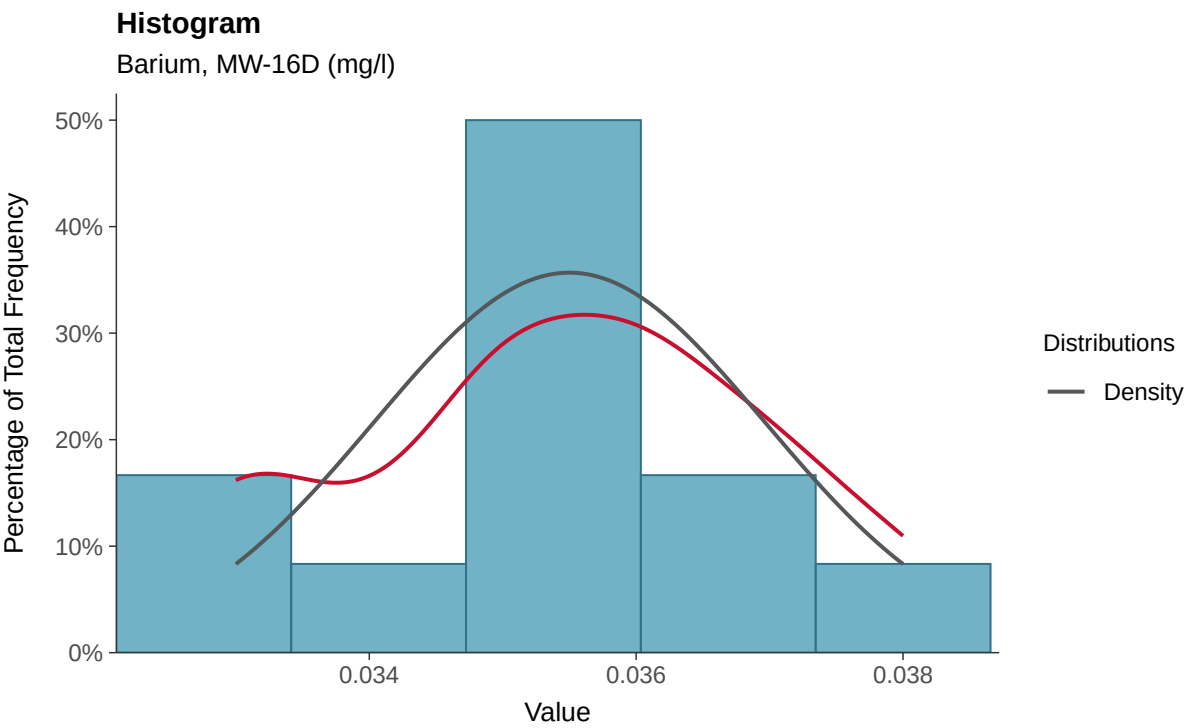
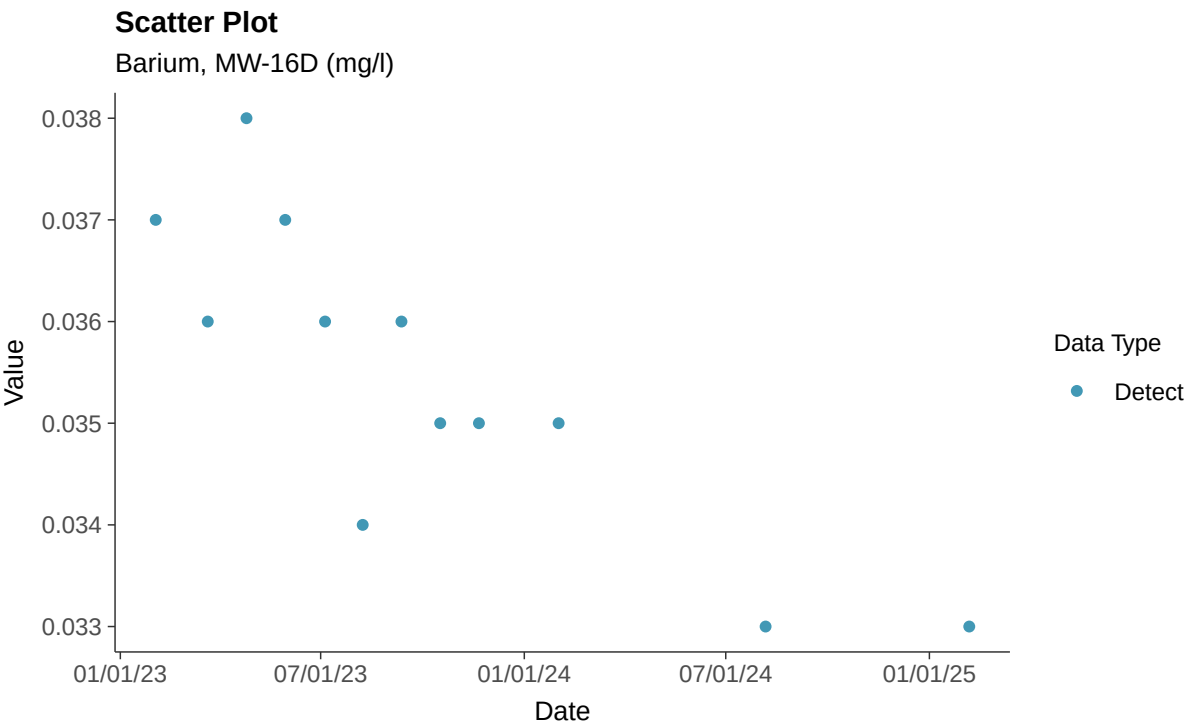


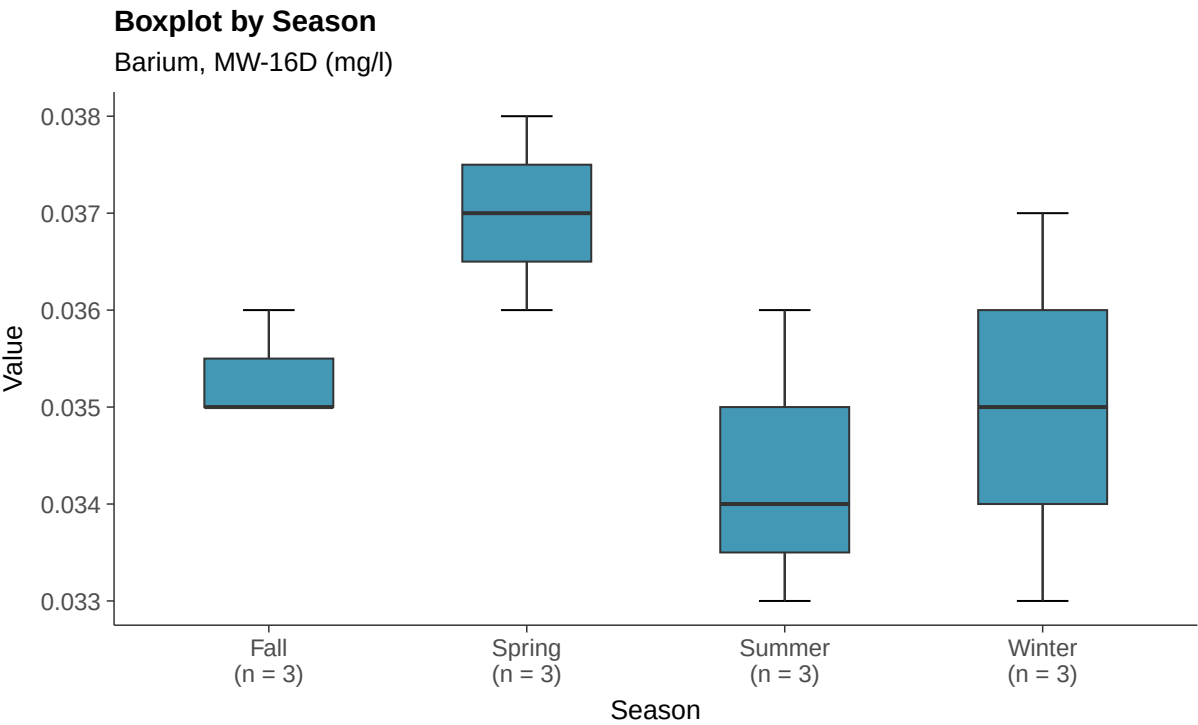
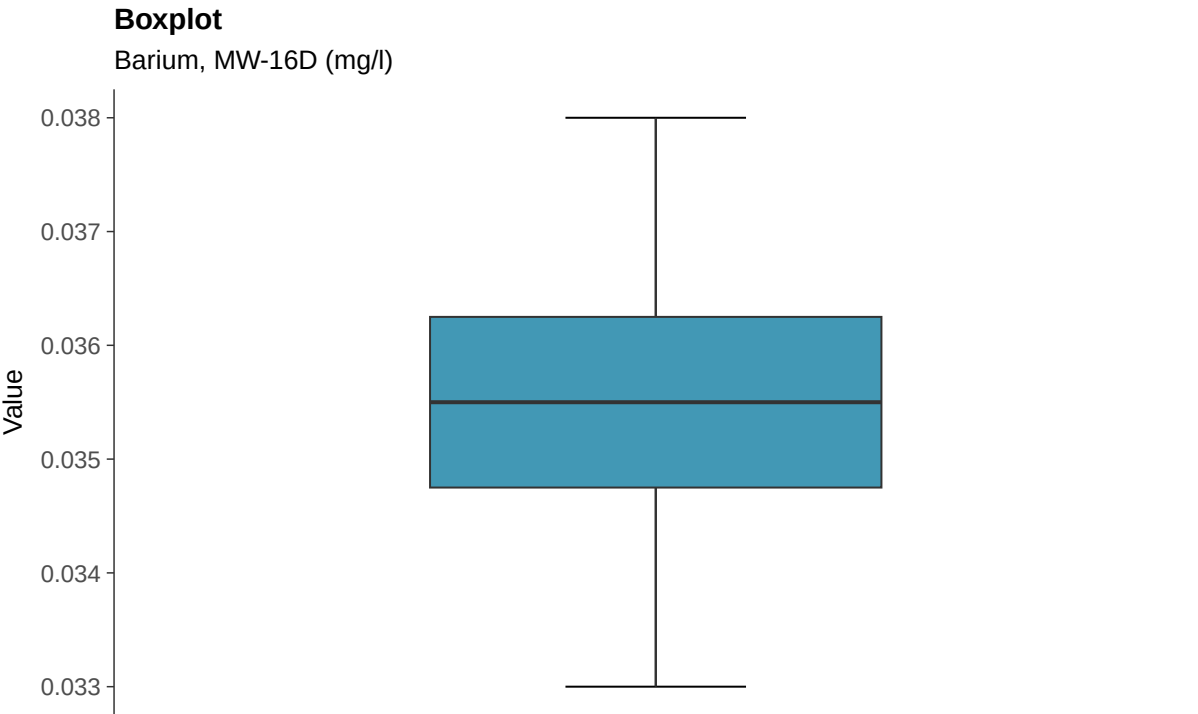


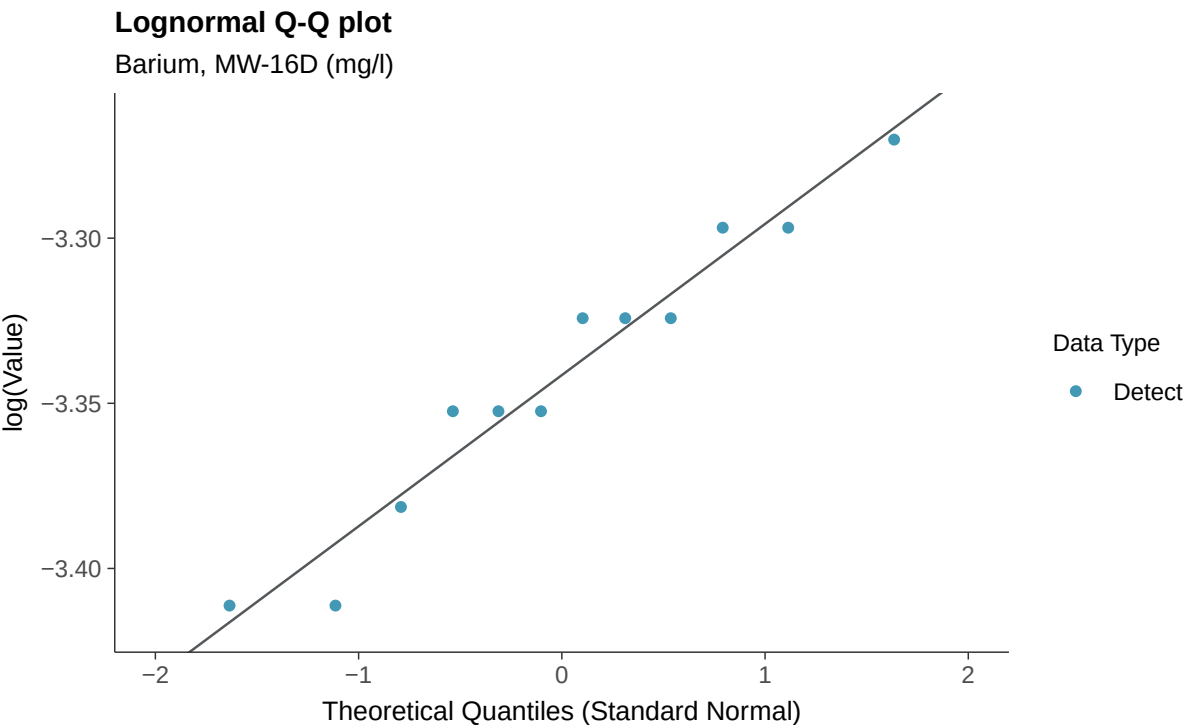
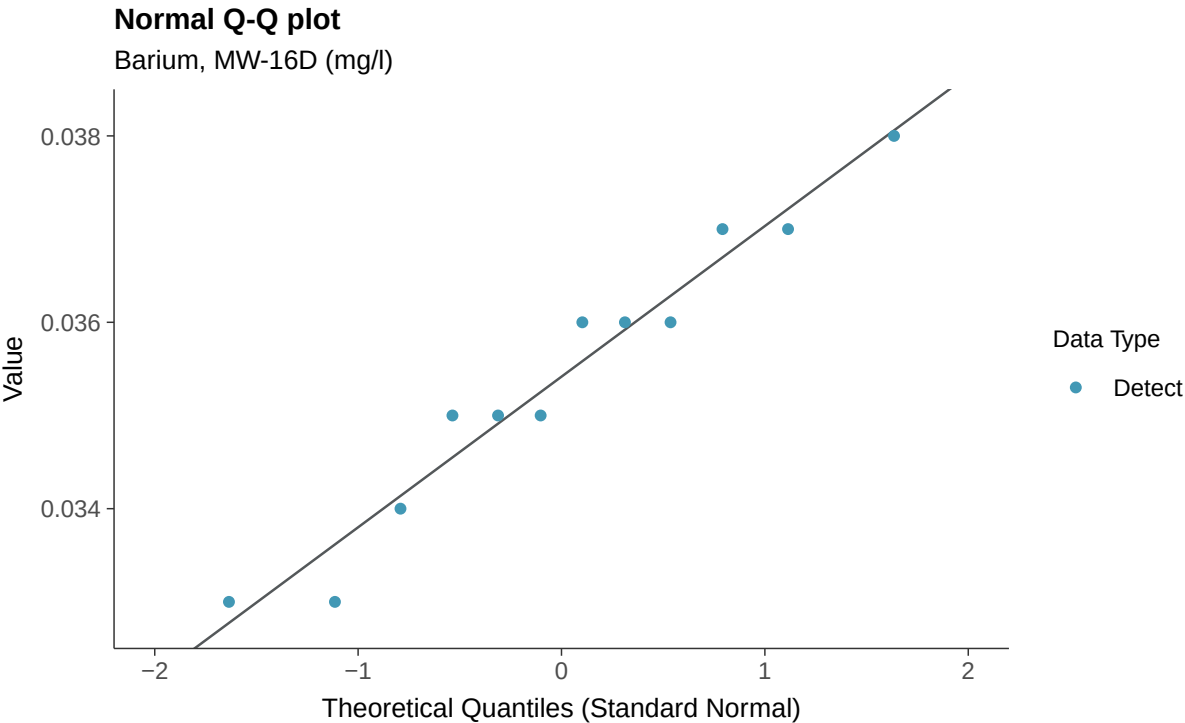


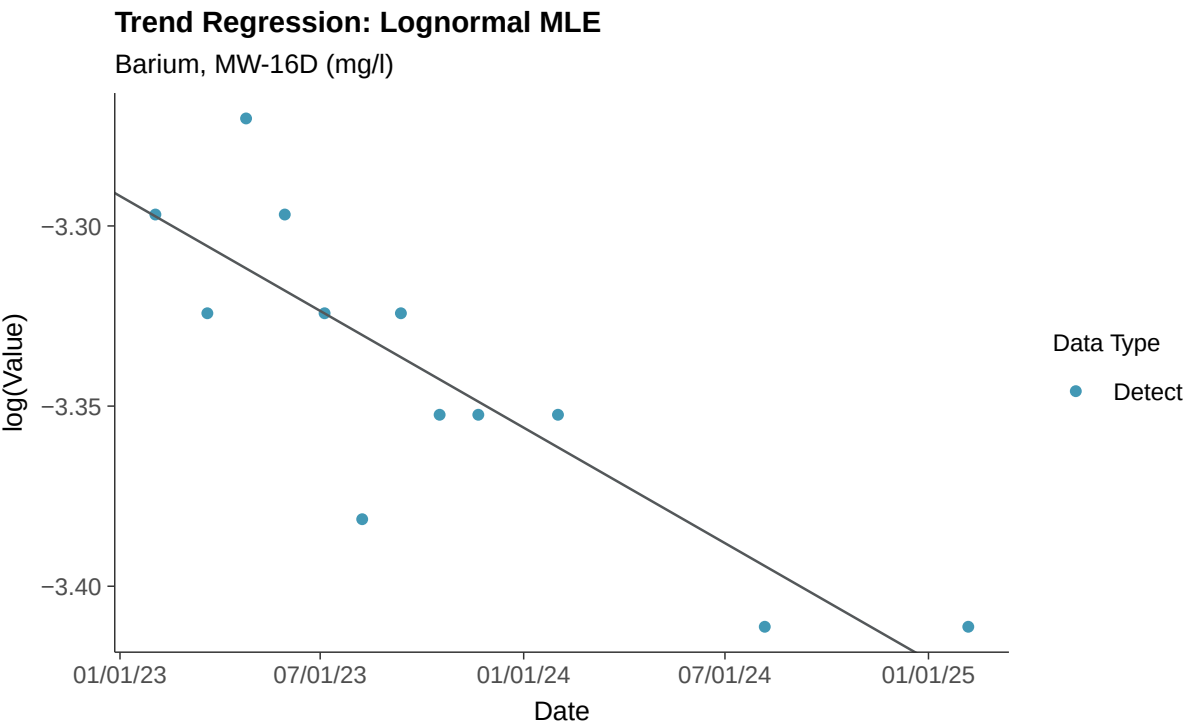
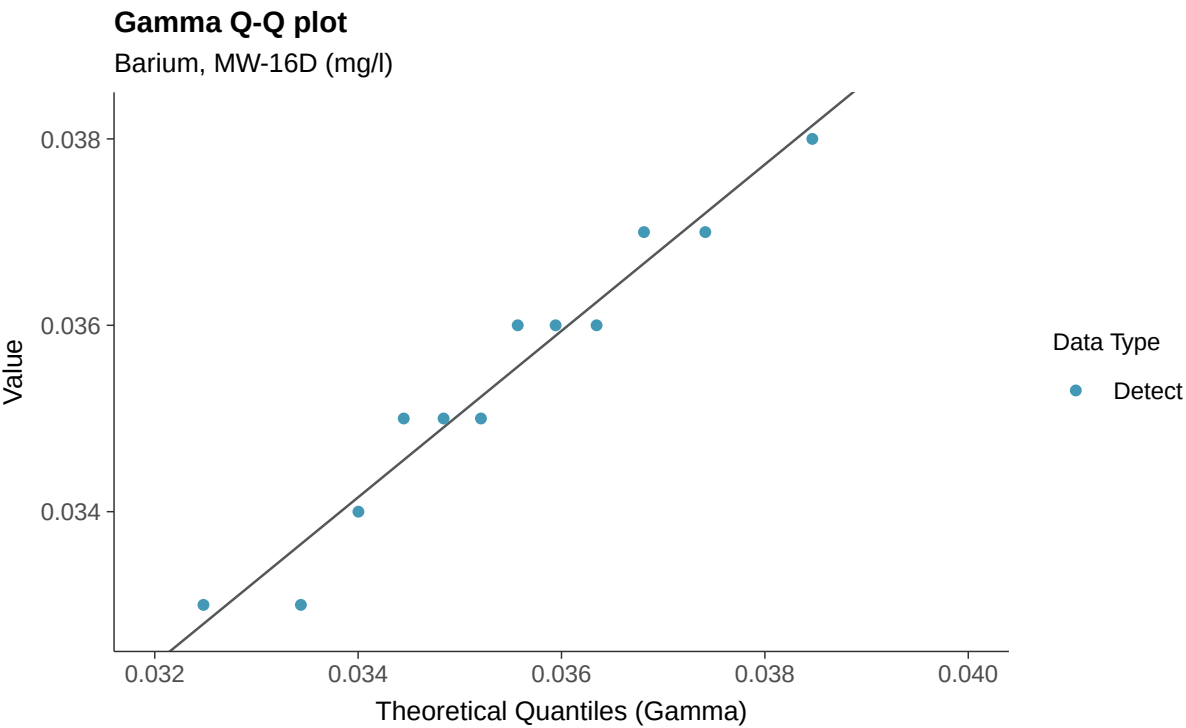
Appendix IV: Barium, MW-16D

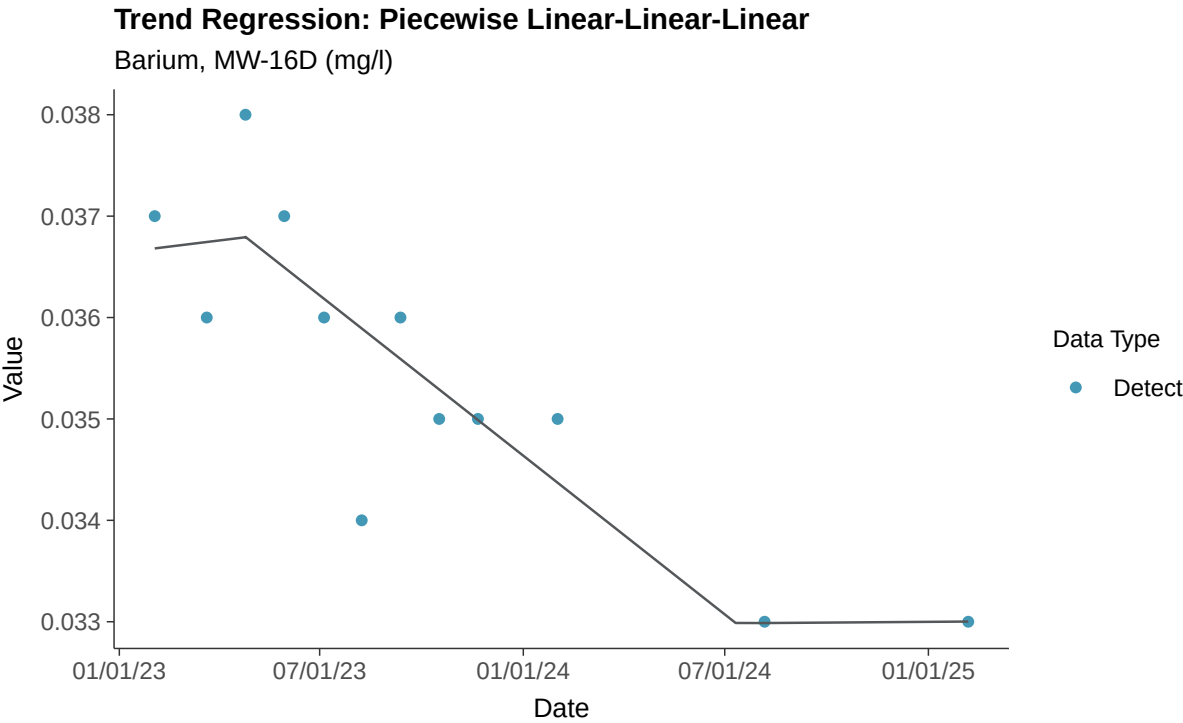
ID: 13_3_103







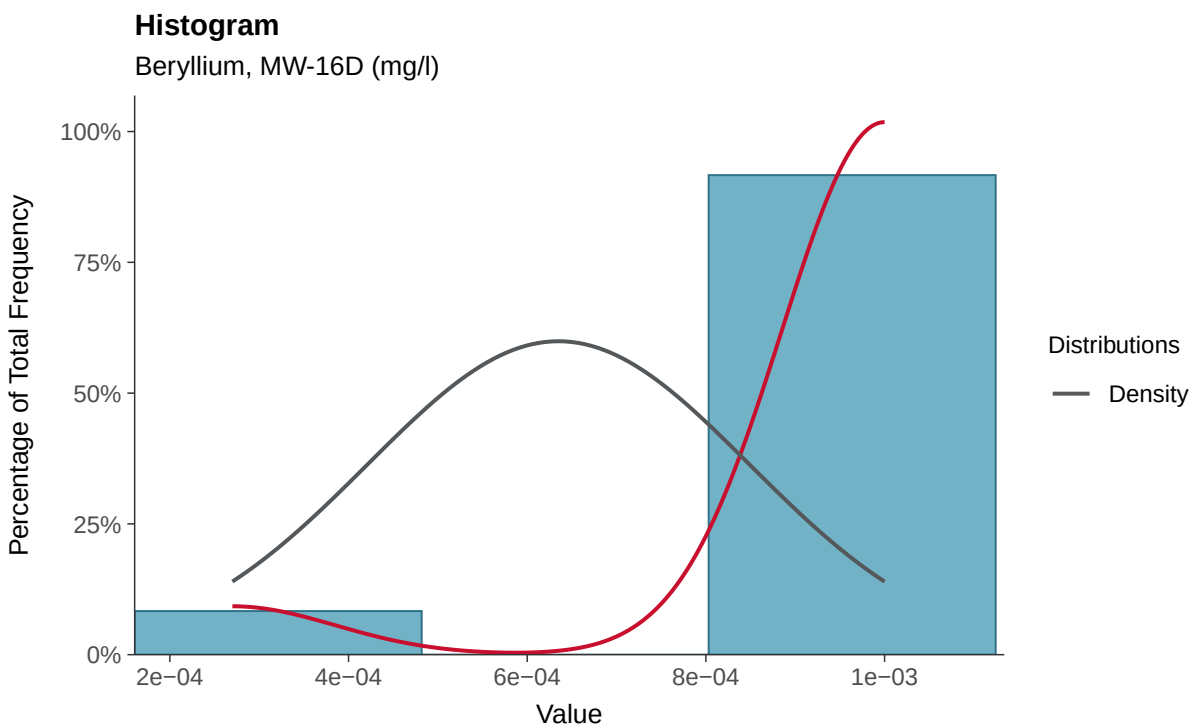
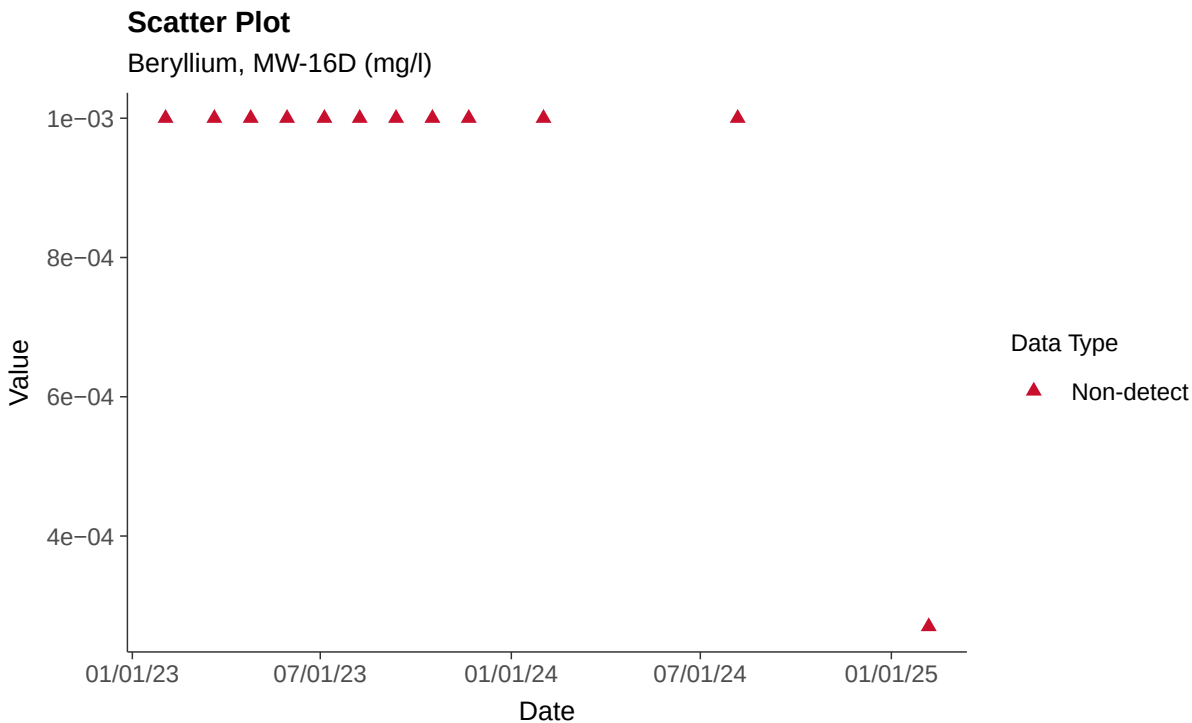


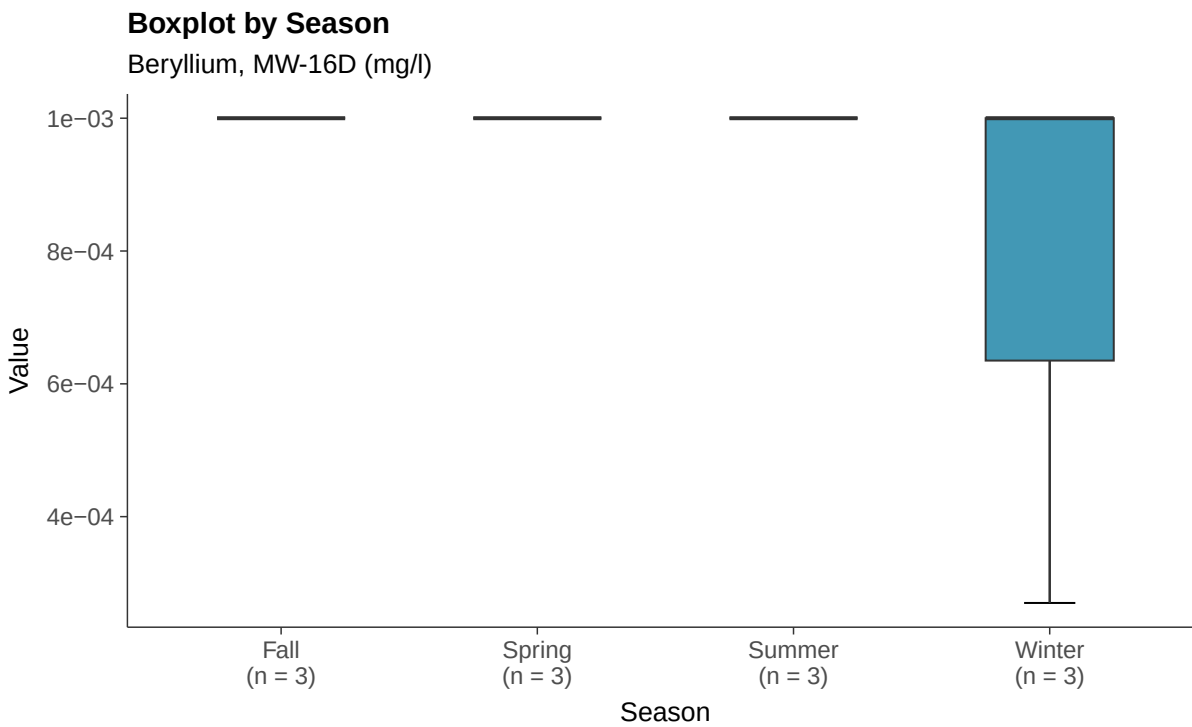
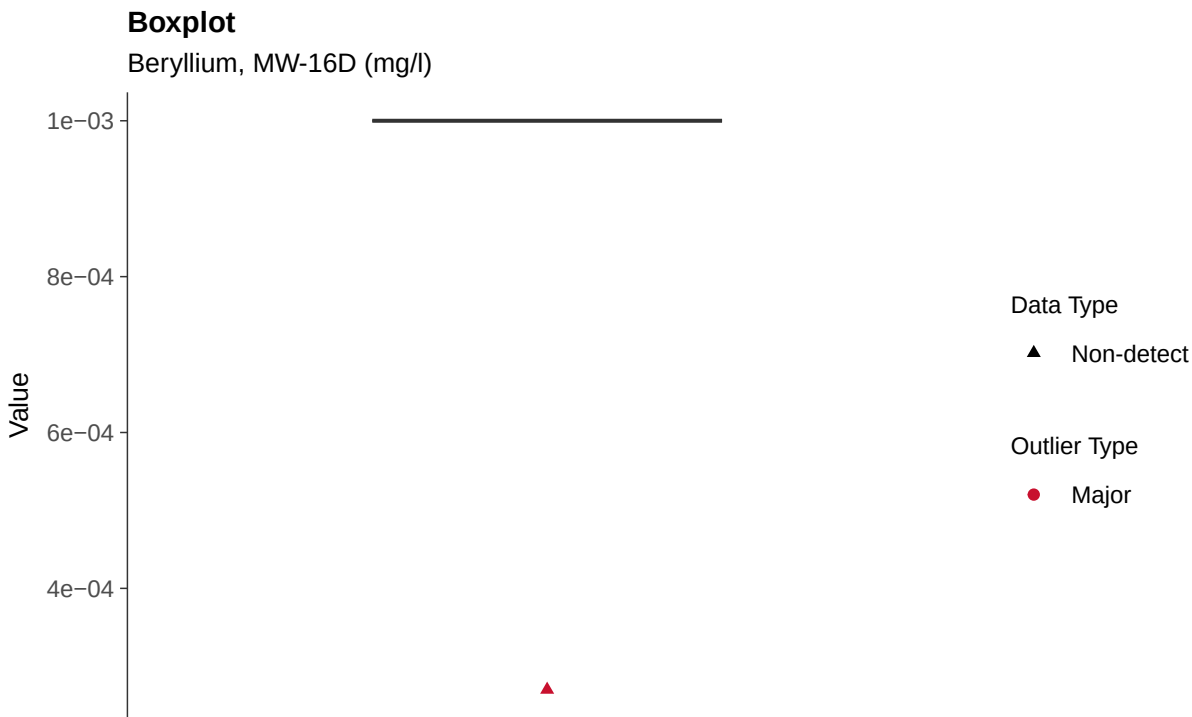




Appendix IV: Beryllium, MW-16D

ID: 13_3_104

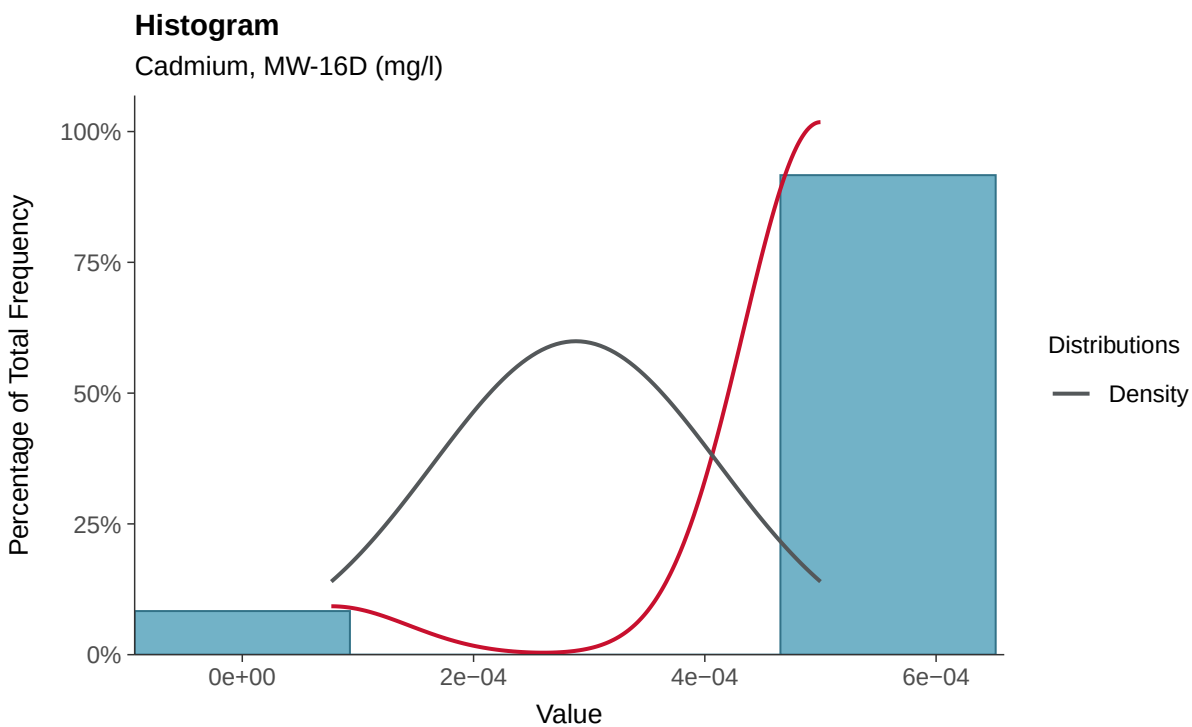
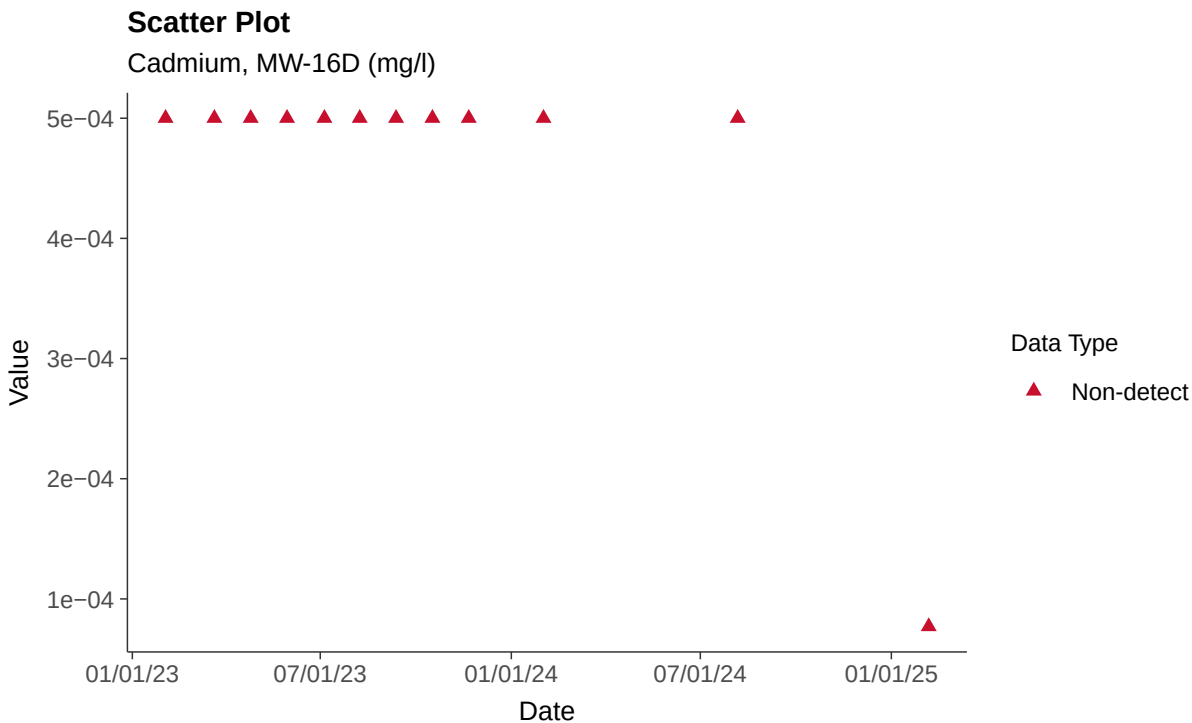


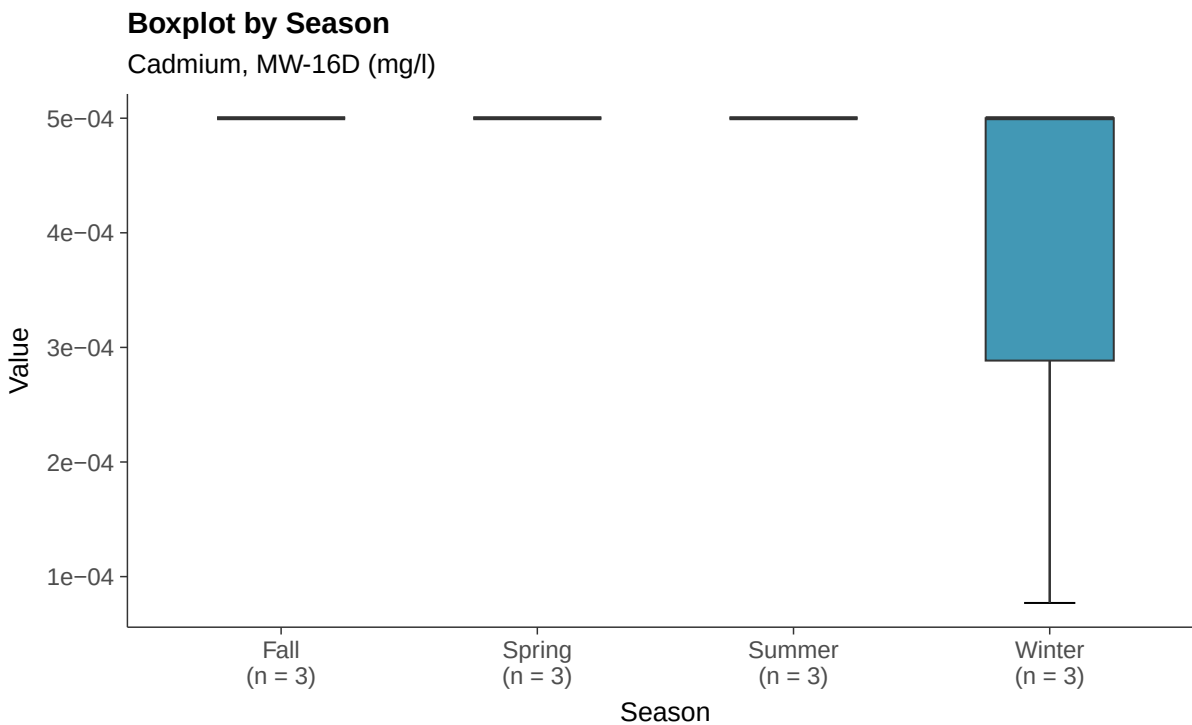
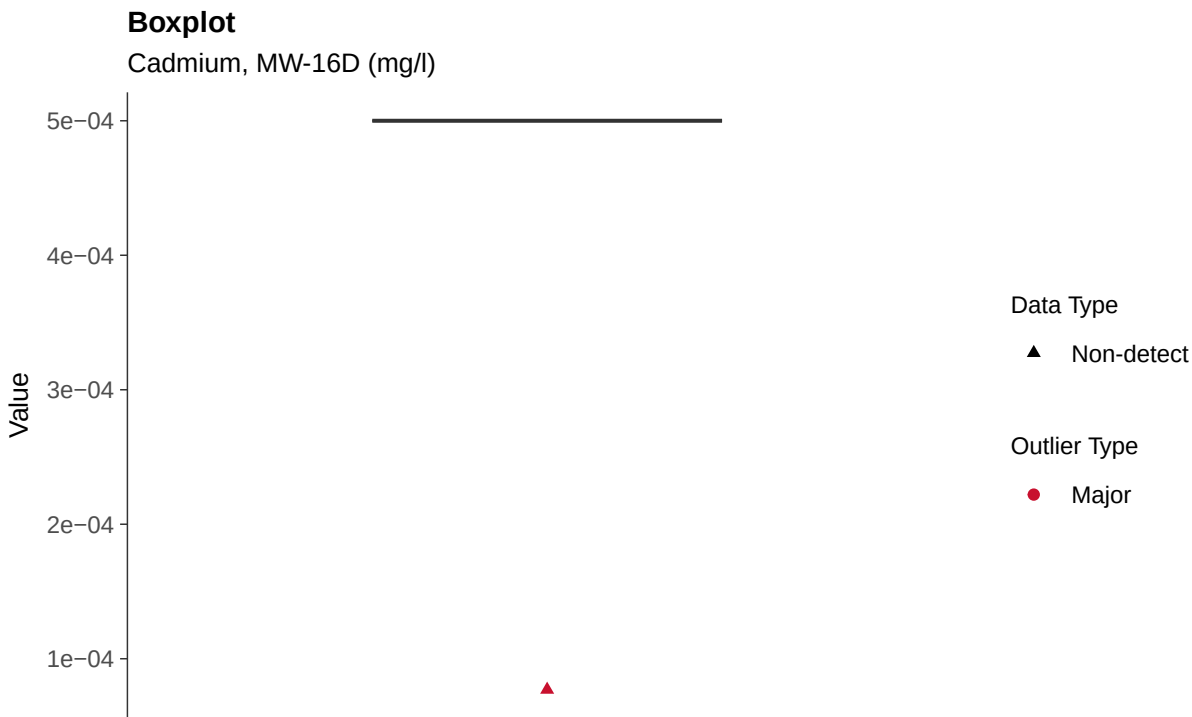




Appendix IV: Cadmium, MW-16D

ID: 13_3_106

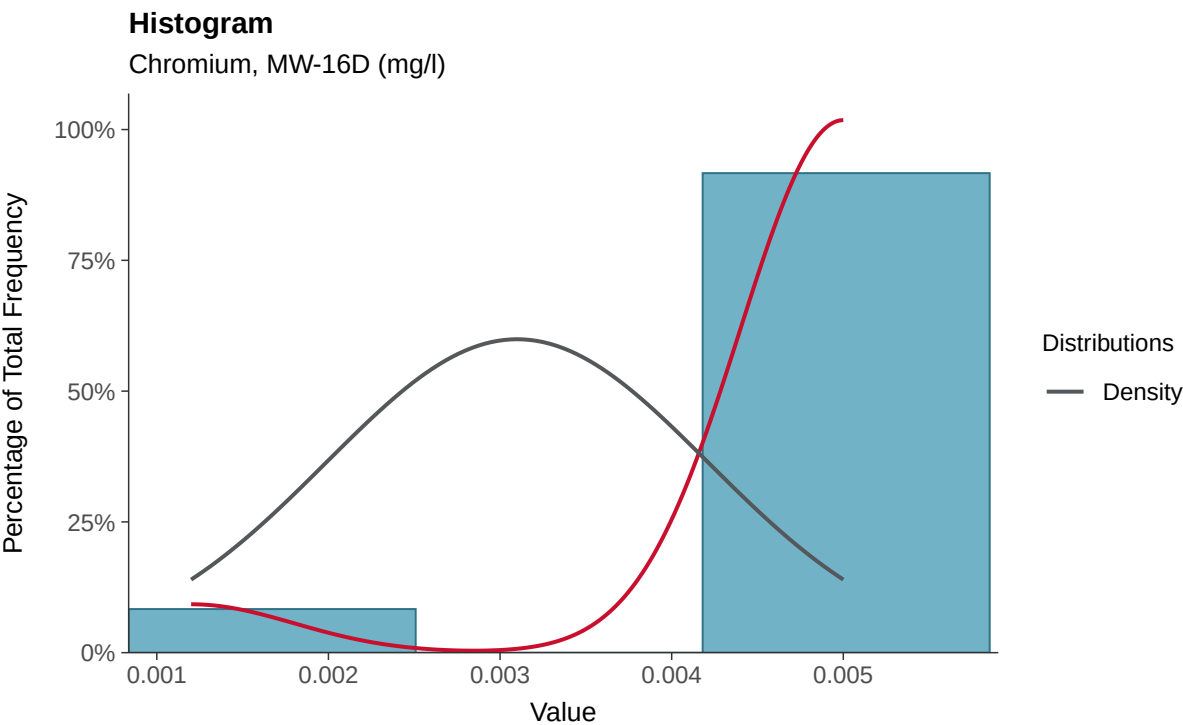
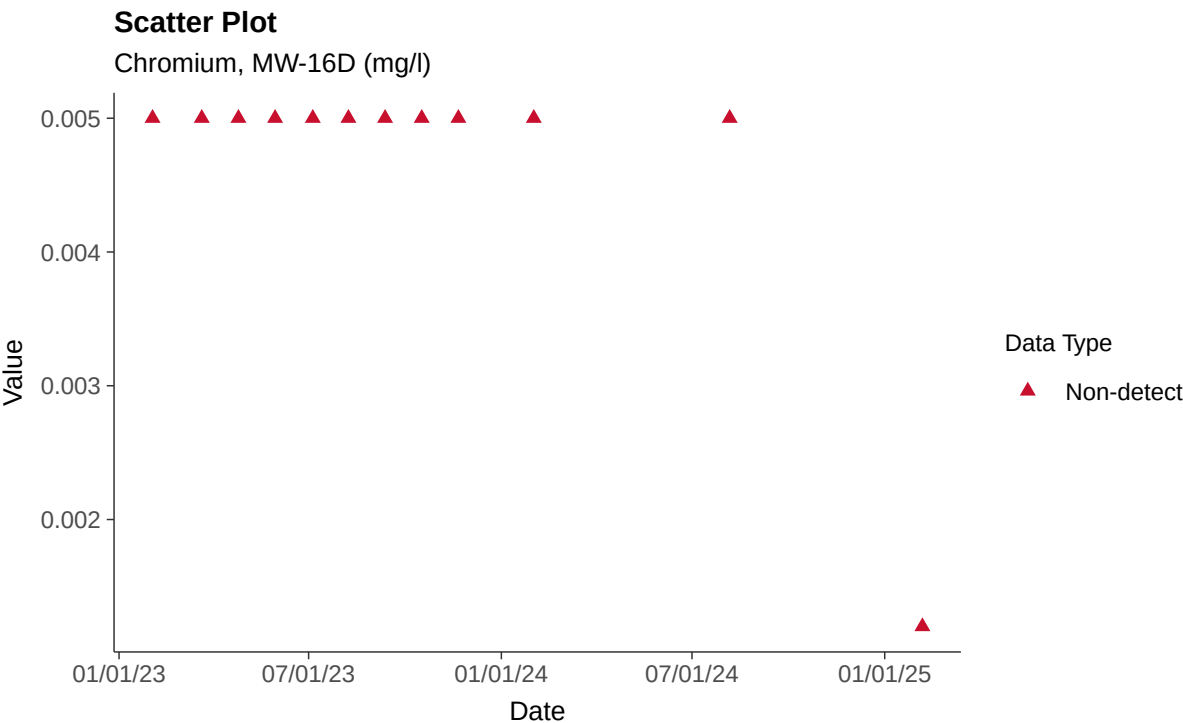


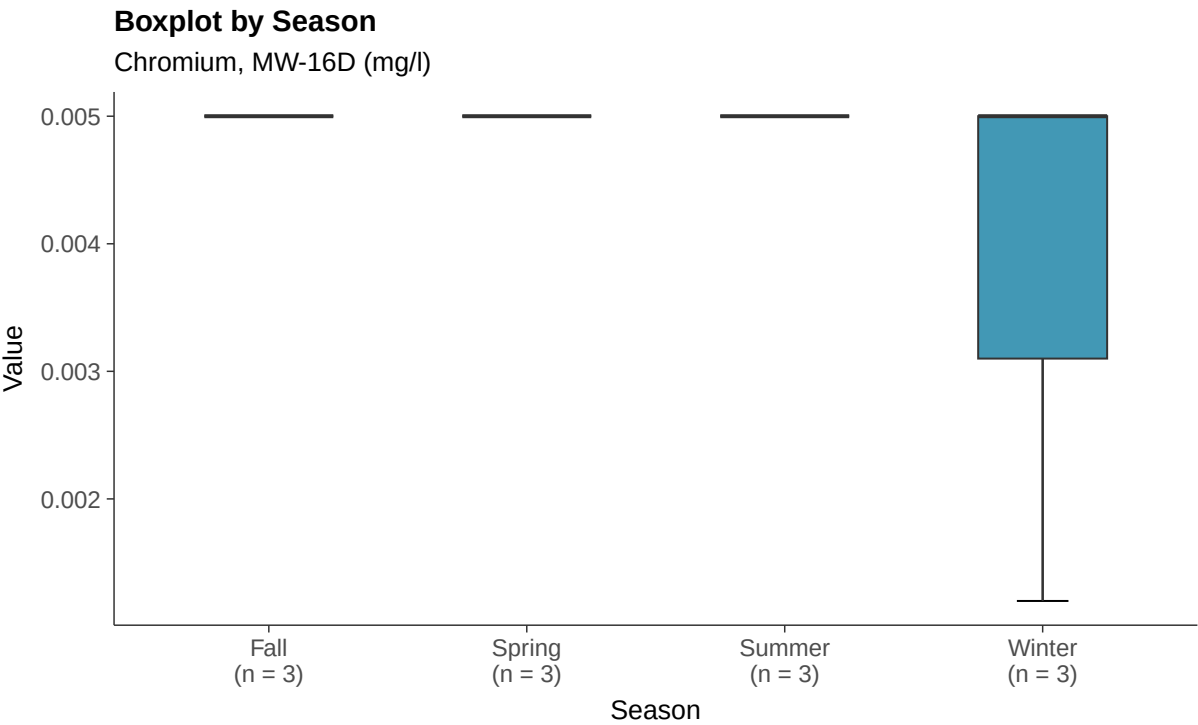
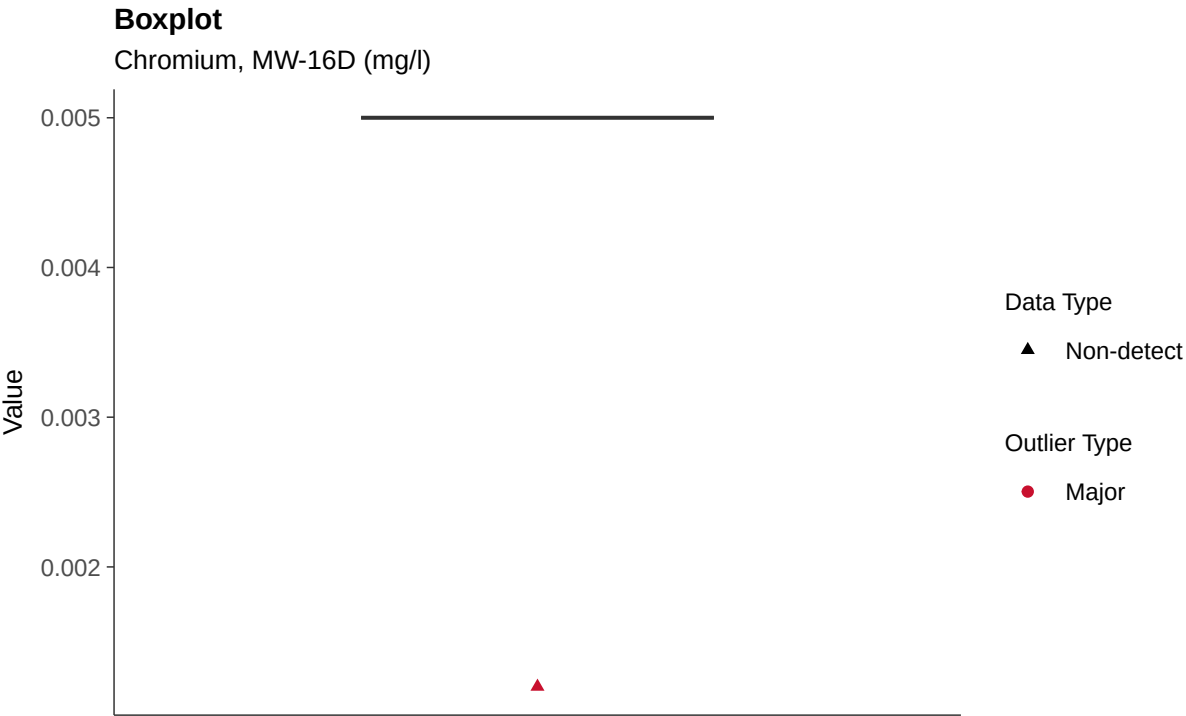




Appendix IV: Chromium, MW-16D

ID: 13_3_109

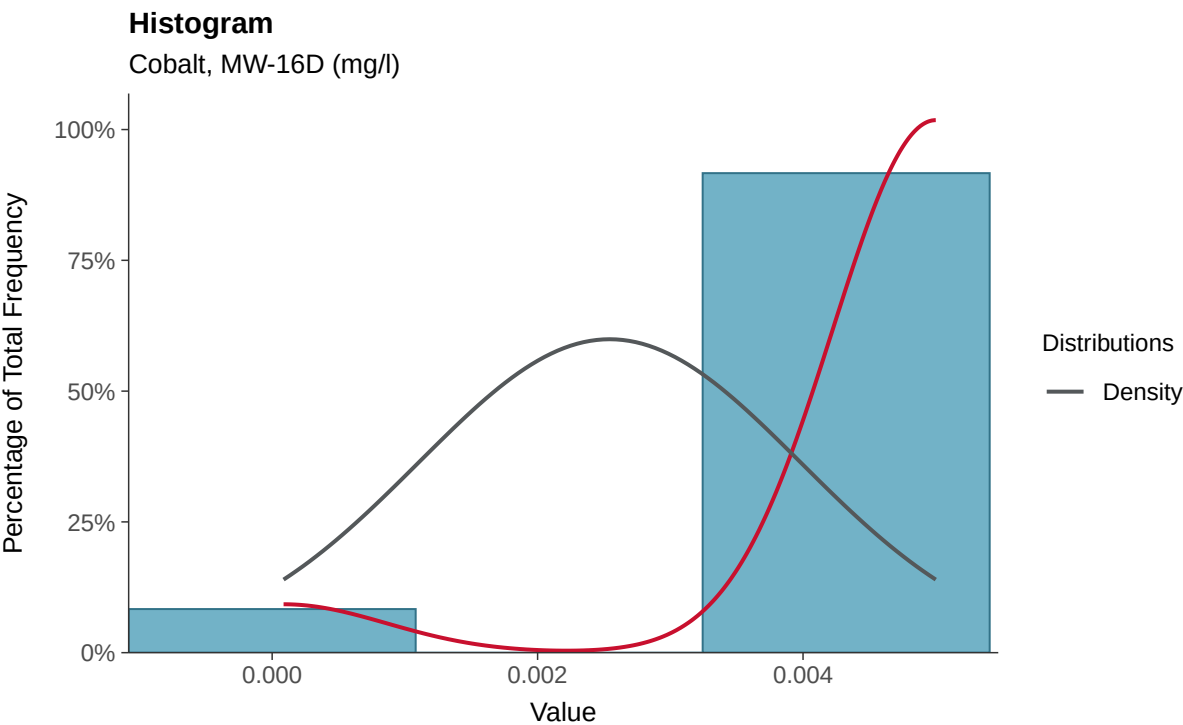
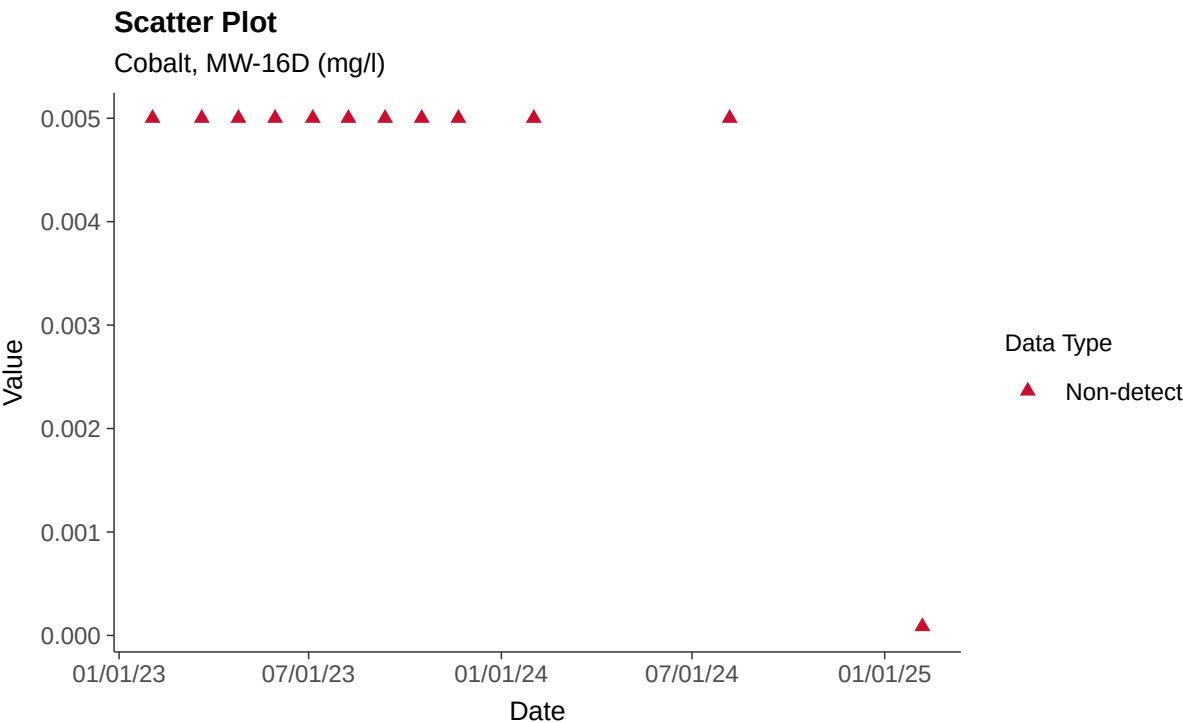


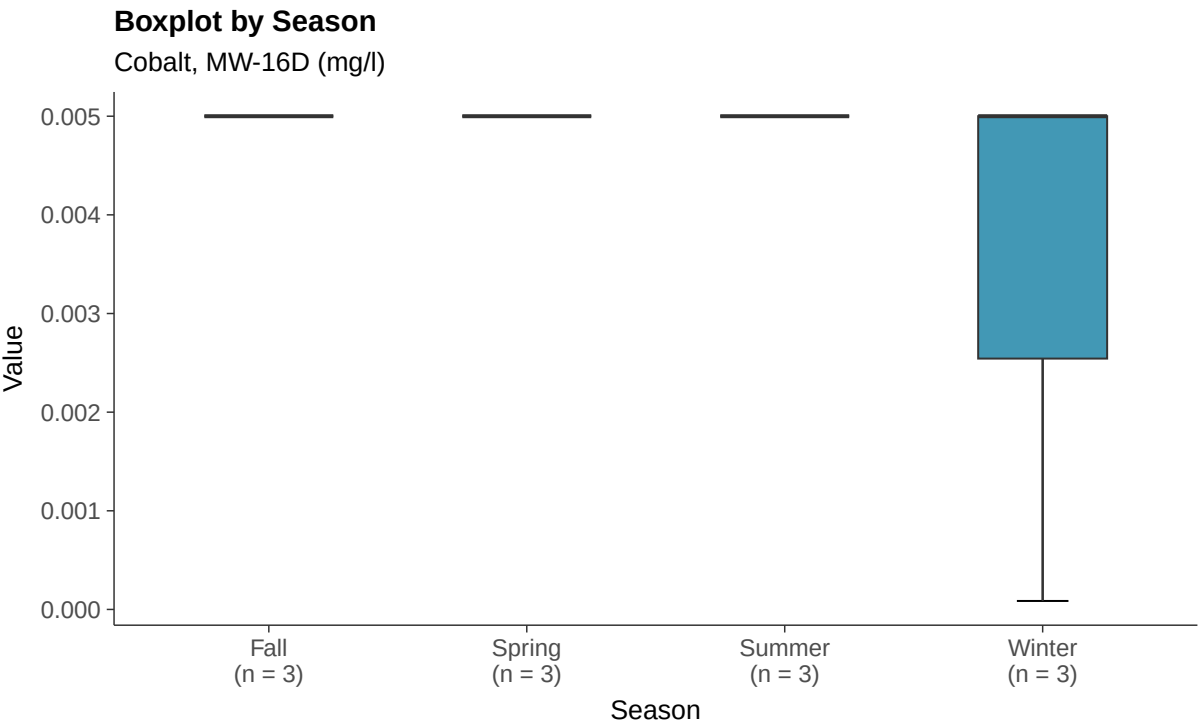
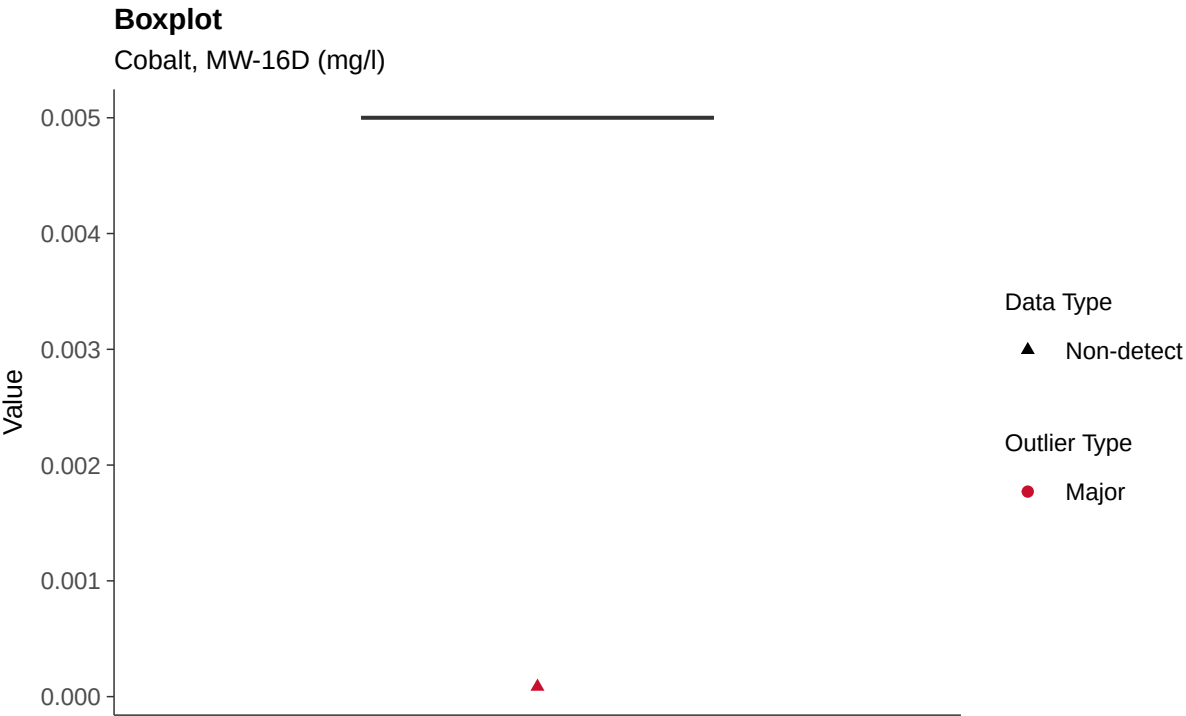




Appendix IV: Cobalt, MW-16D

ID: 13_3_110

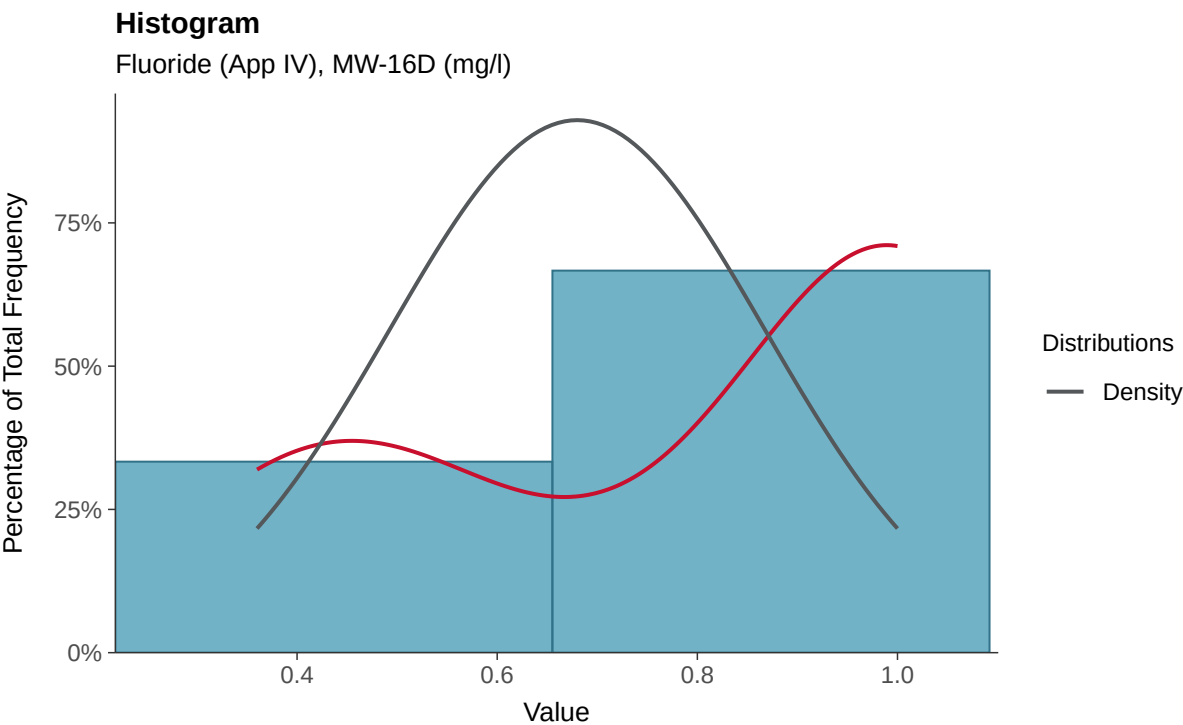
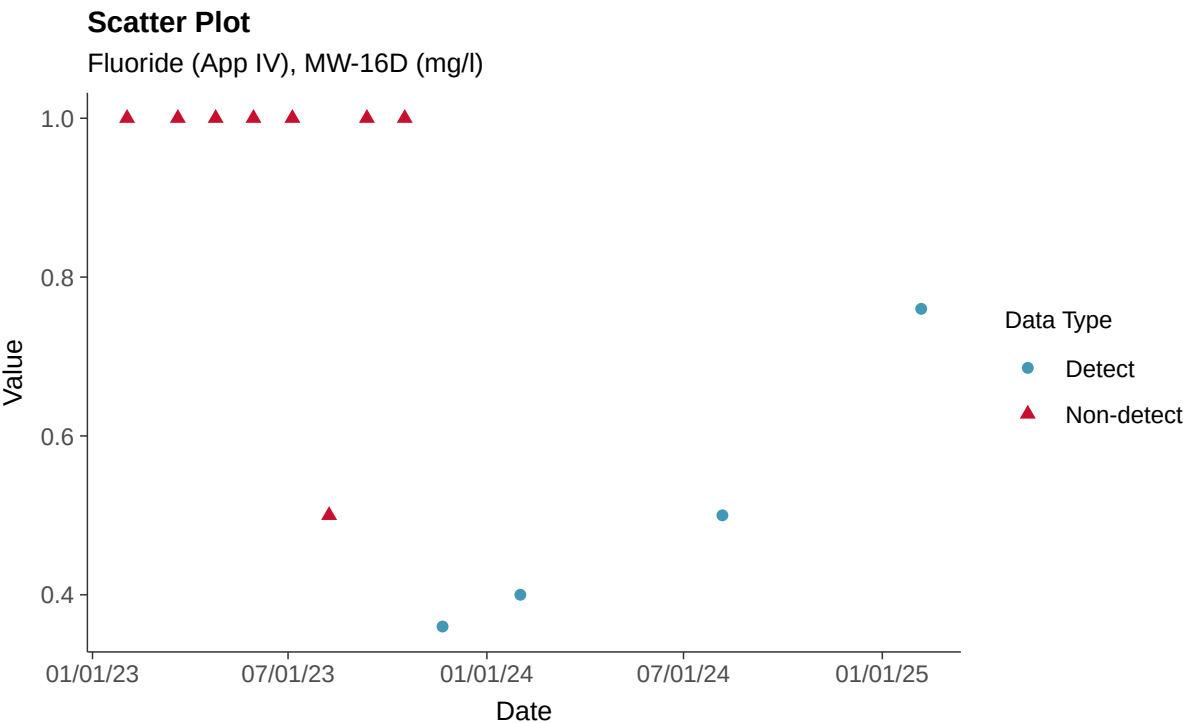






Appendix IV: Fluoride (App IV), MW-16D

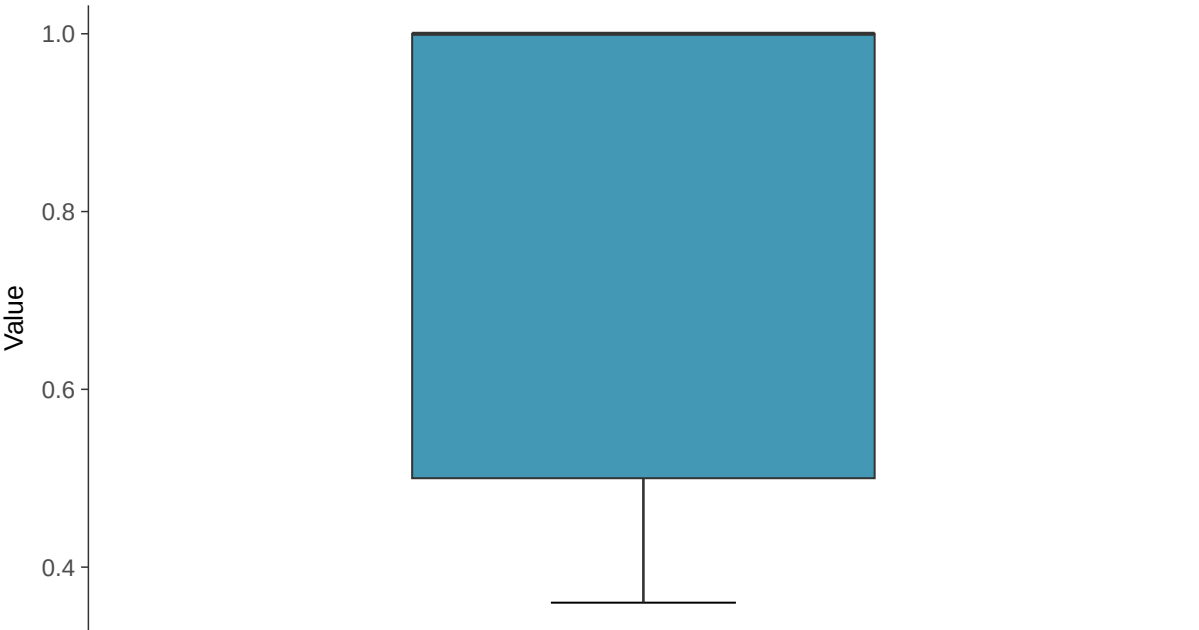
ID: 13_3_113





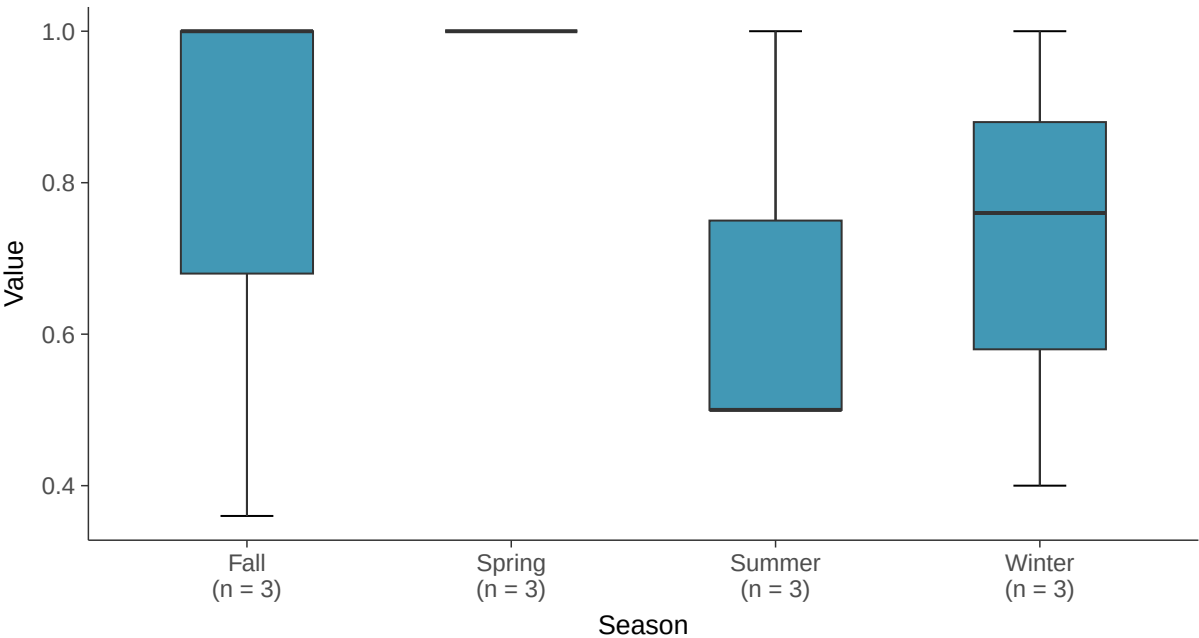
Boxplot

Fluoride (App IV), MW-16D (mg/l)



Boxplot by Season

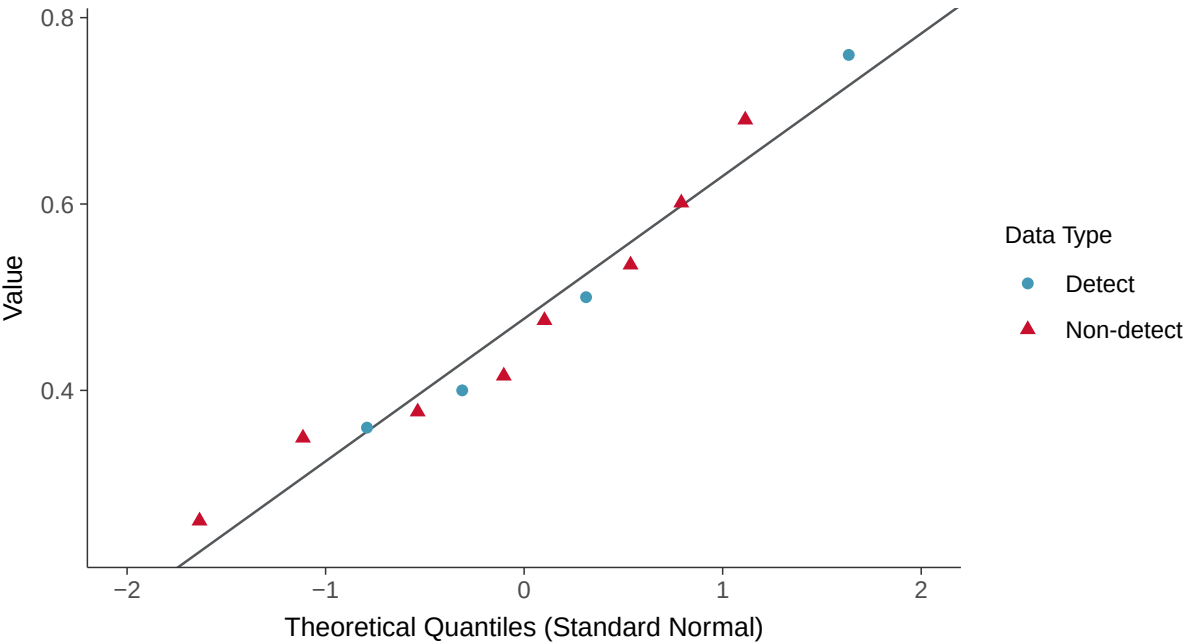
Fluoride (App IV), MW-16D (mg/l)





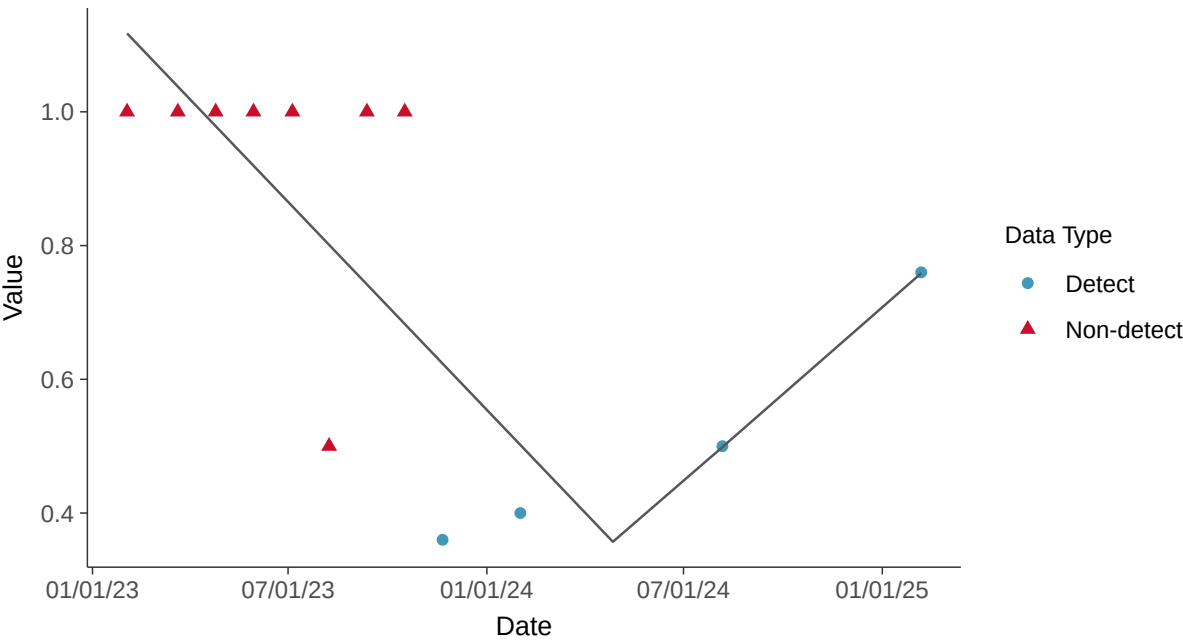
Normal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-16D (mg/l)



Trend Regression: Piecewise Linear-Linear

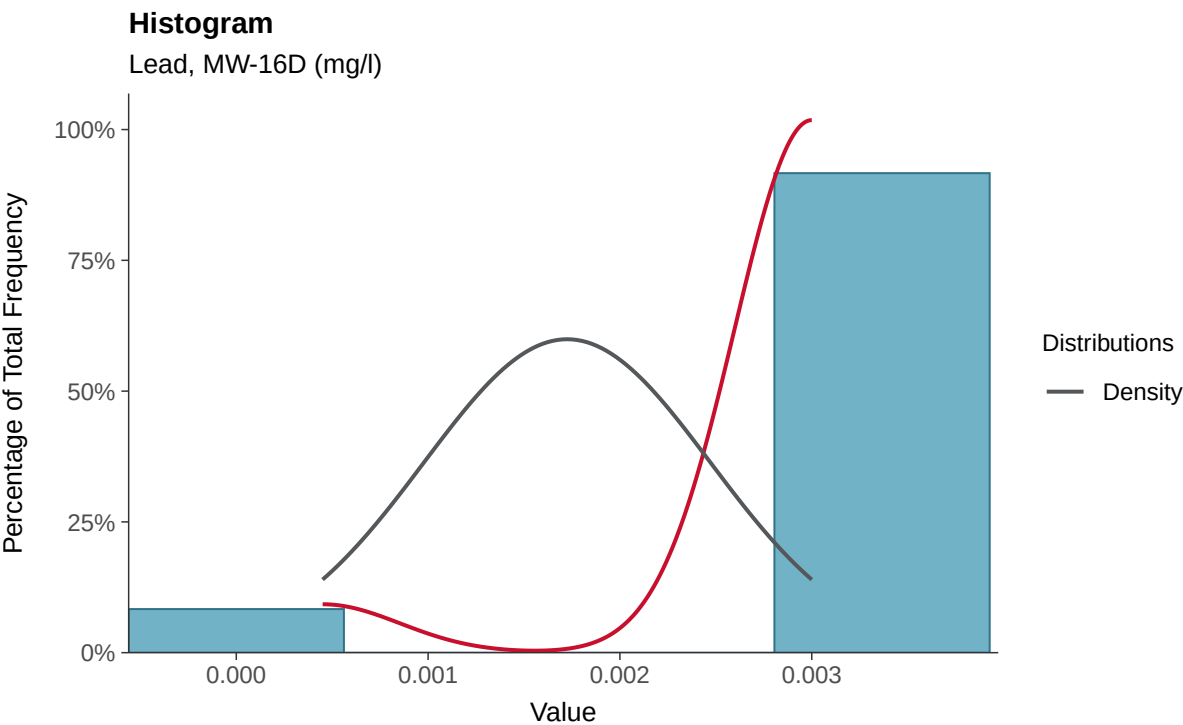
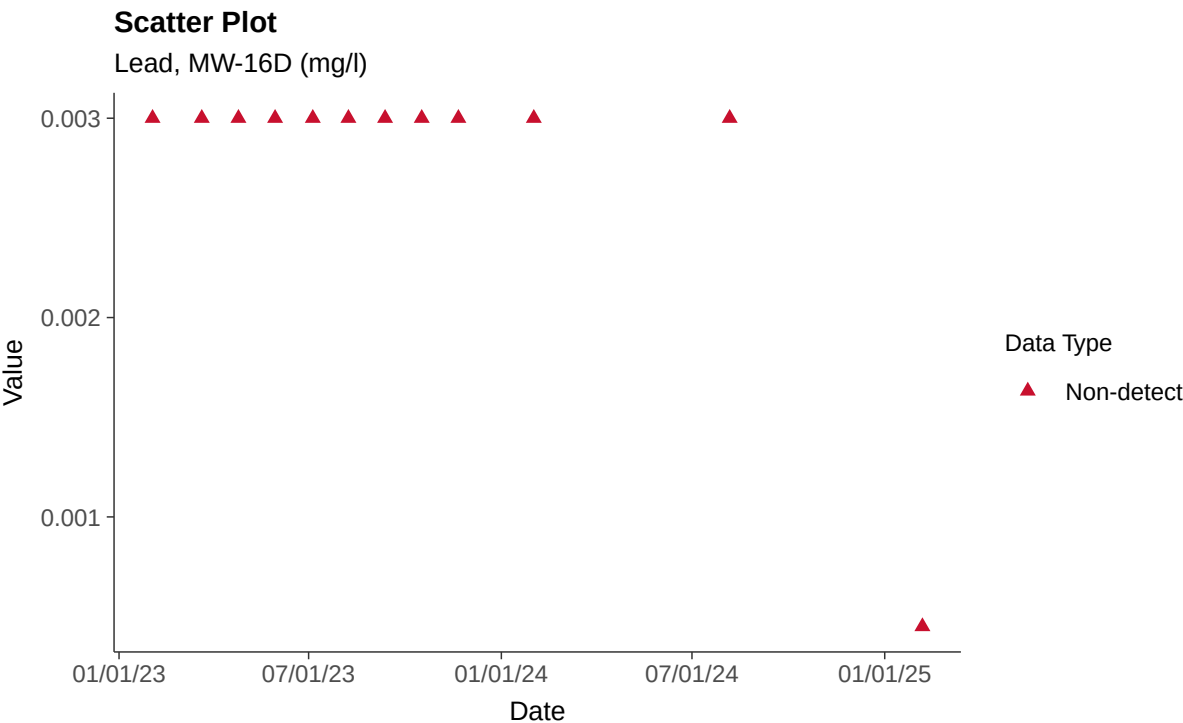
Fluoride (App IV), MW-16D (mg/l)

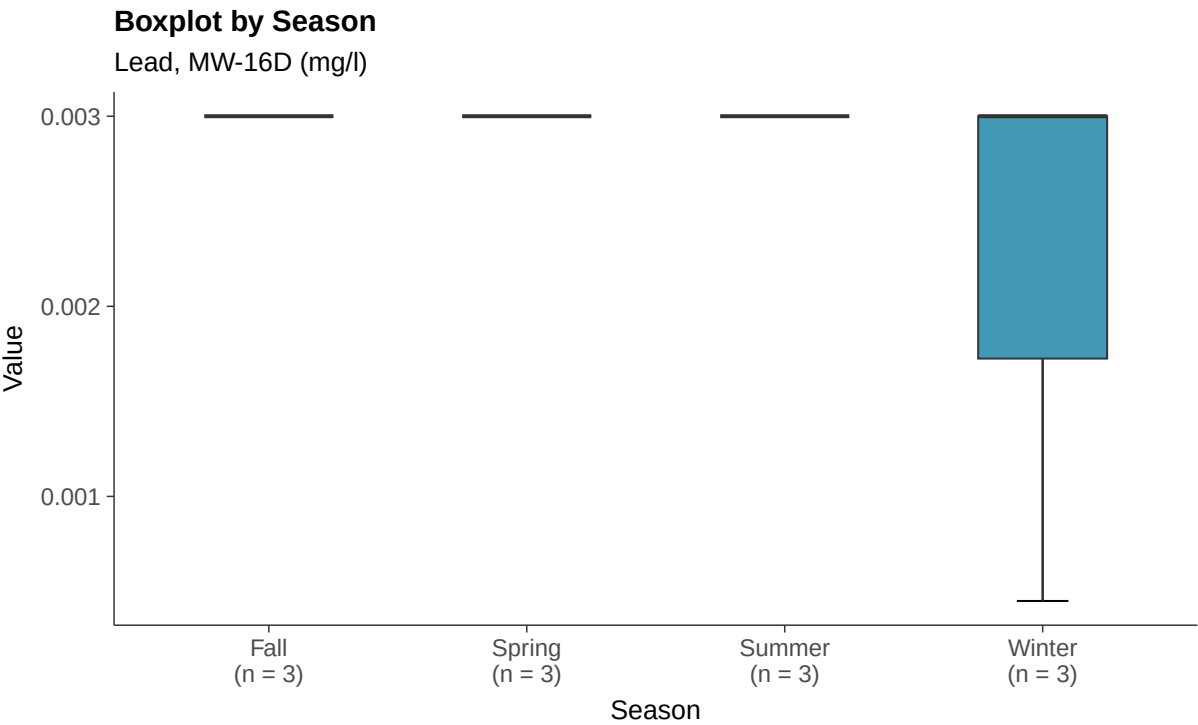
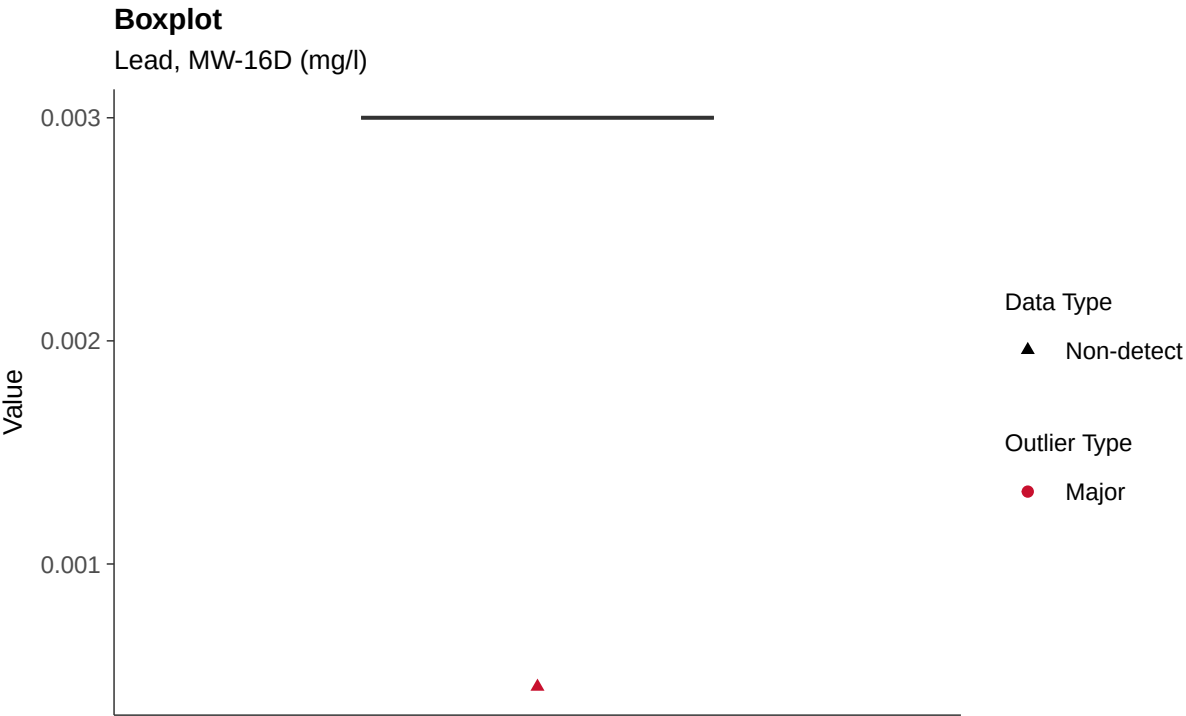




Appendix IV: Lead, MW-16D

ID: 13_3_115

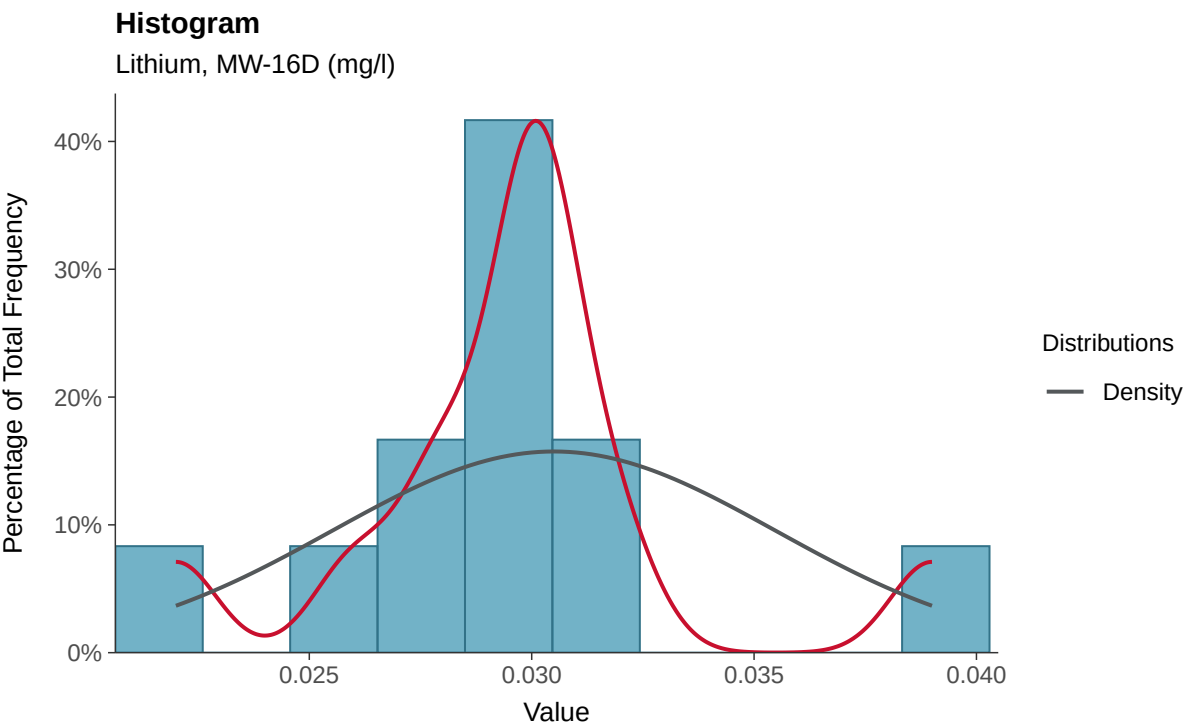
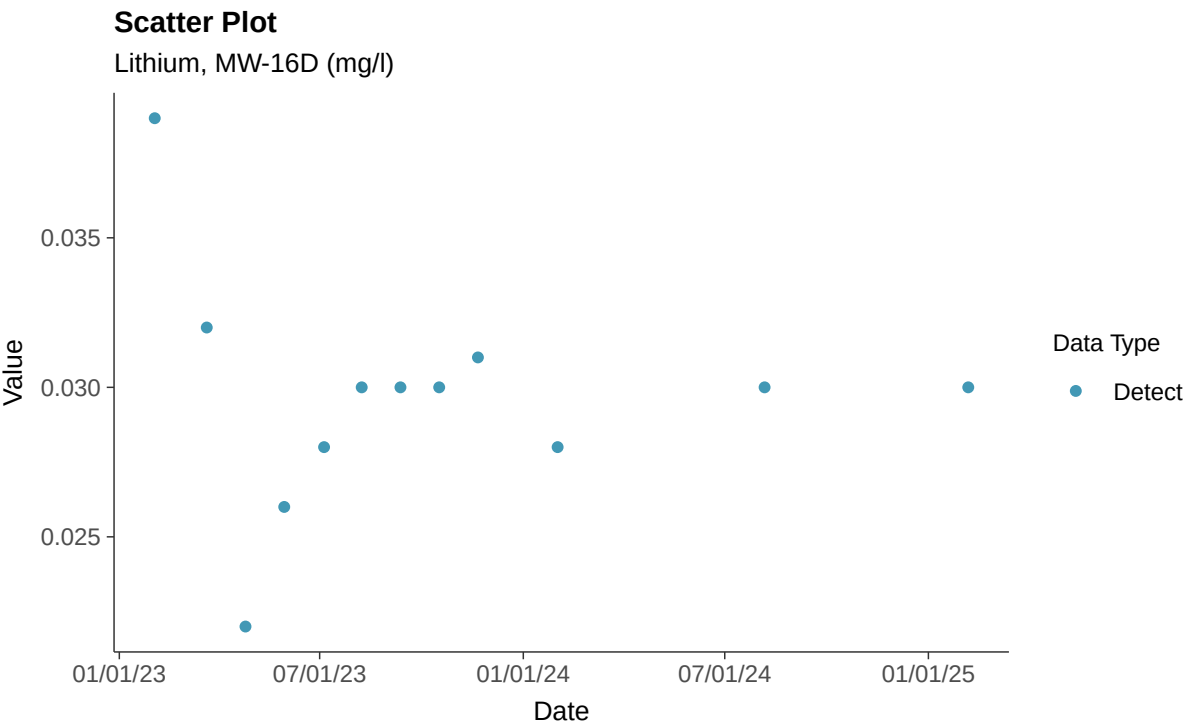


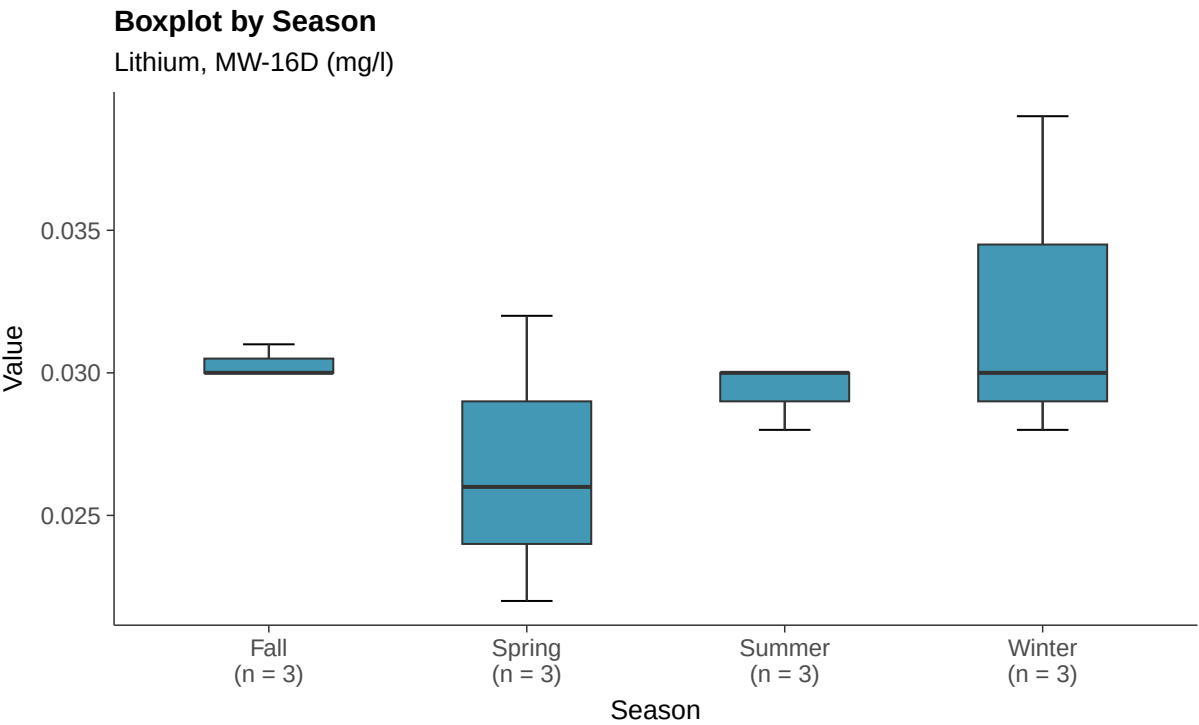
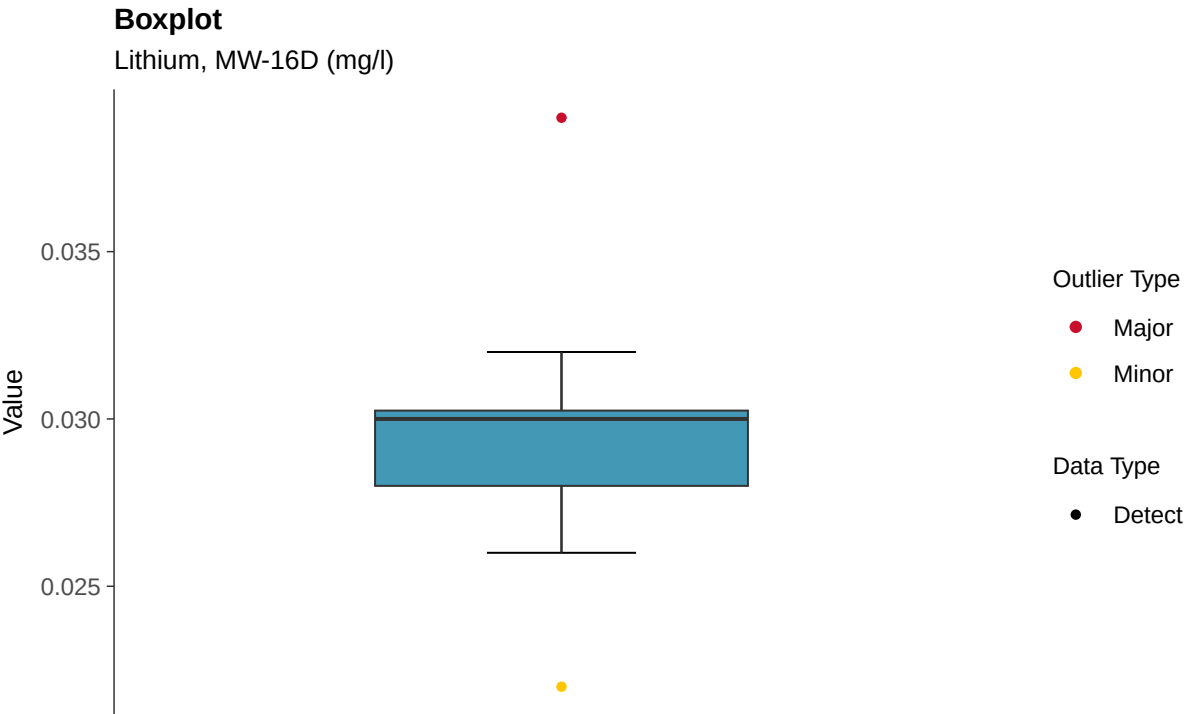


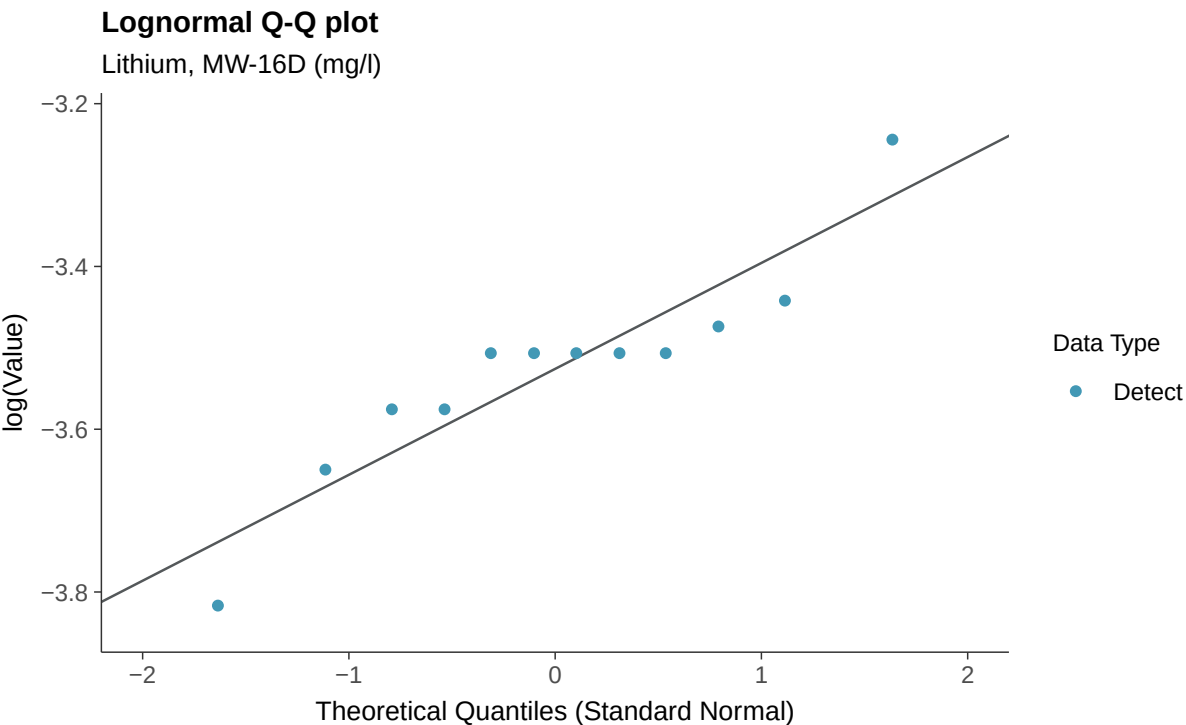
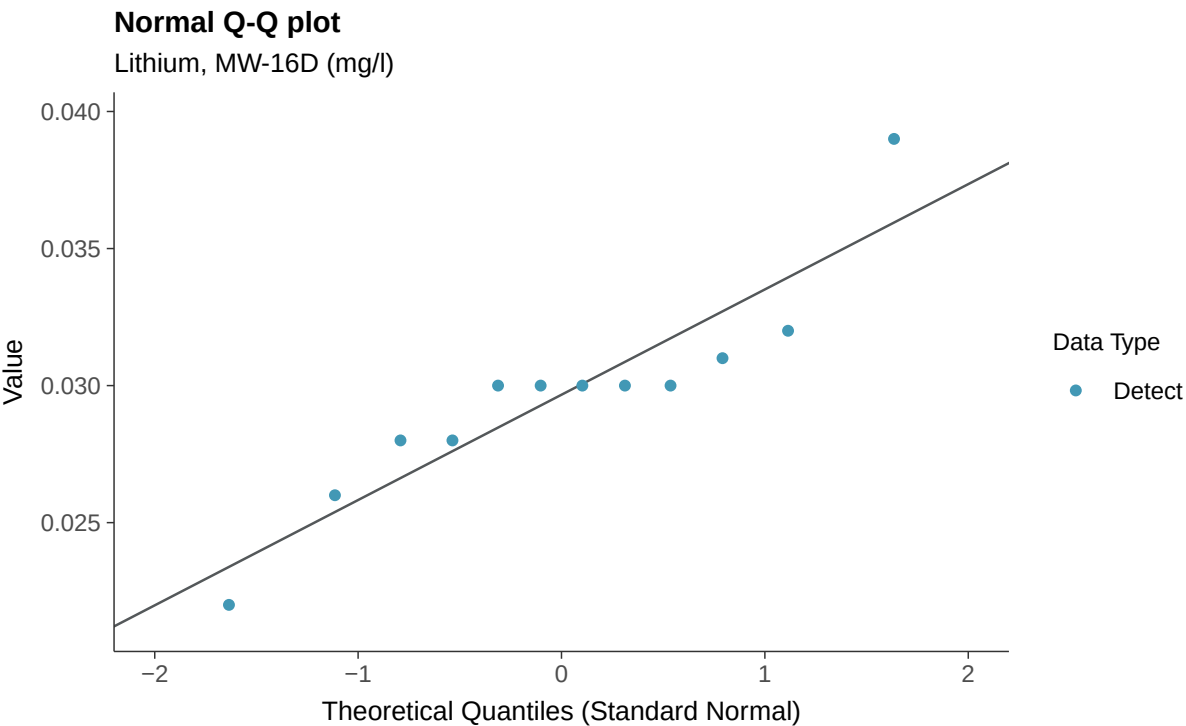


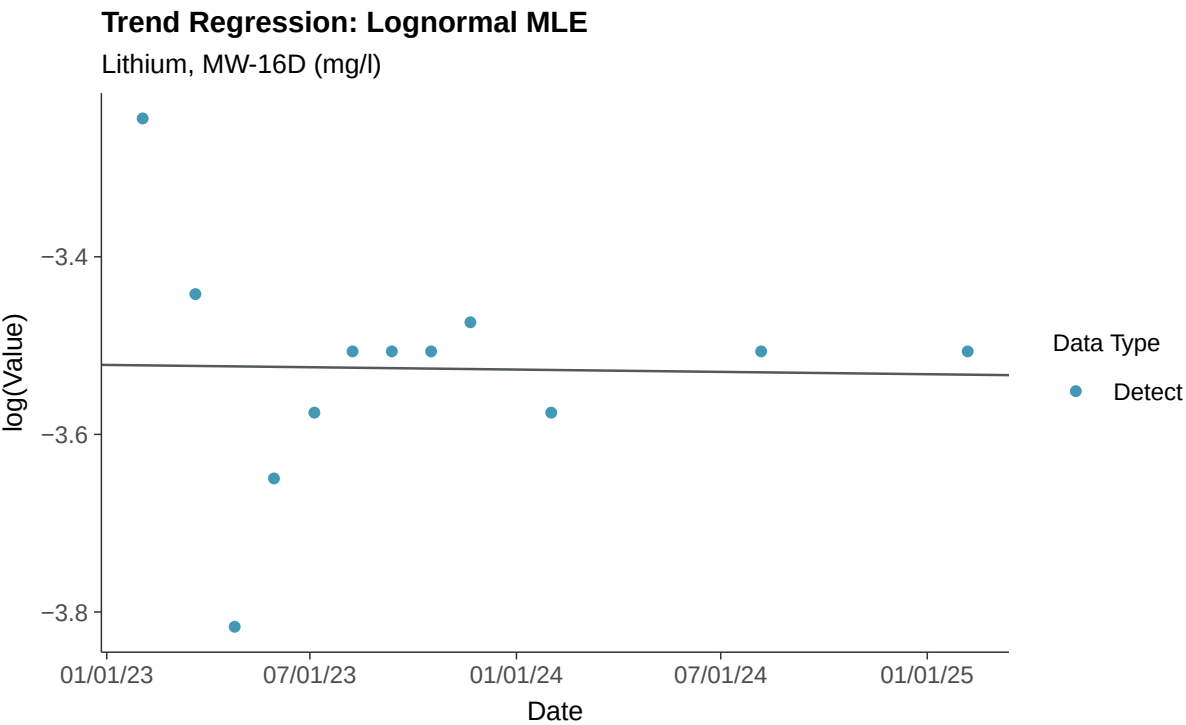
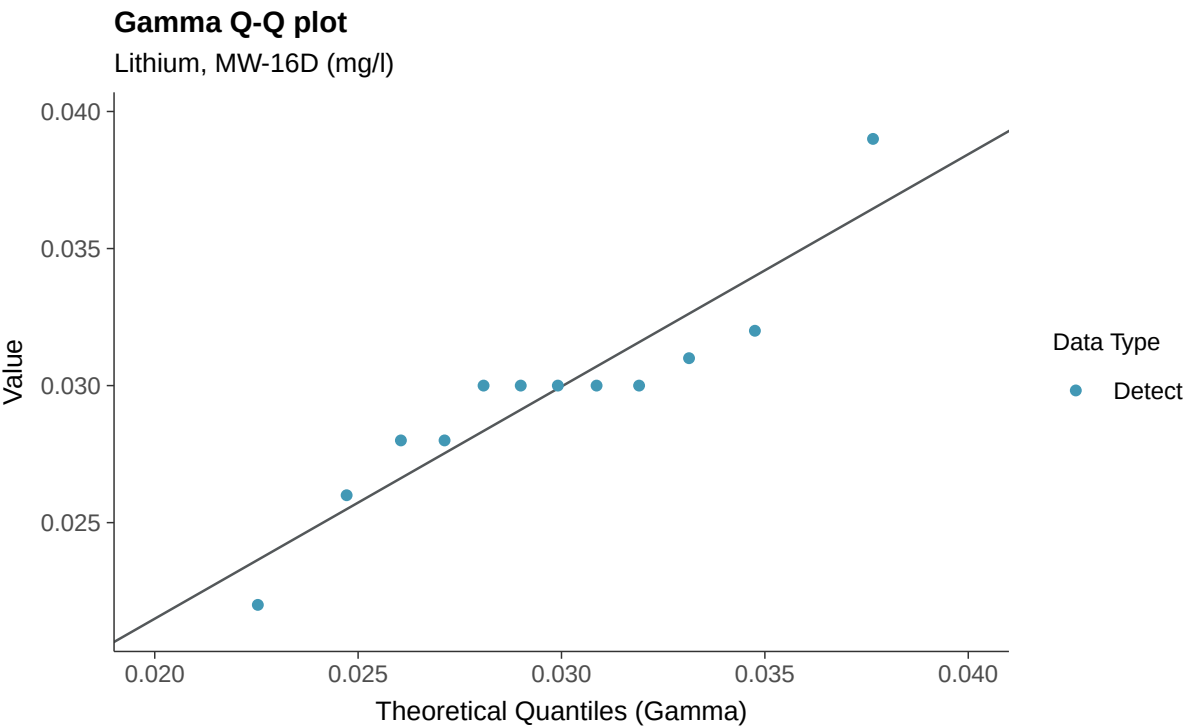
Appendix IV: Lithium, MW-16D

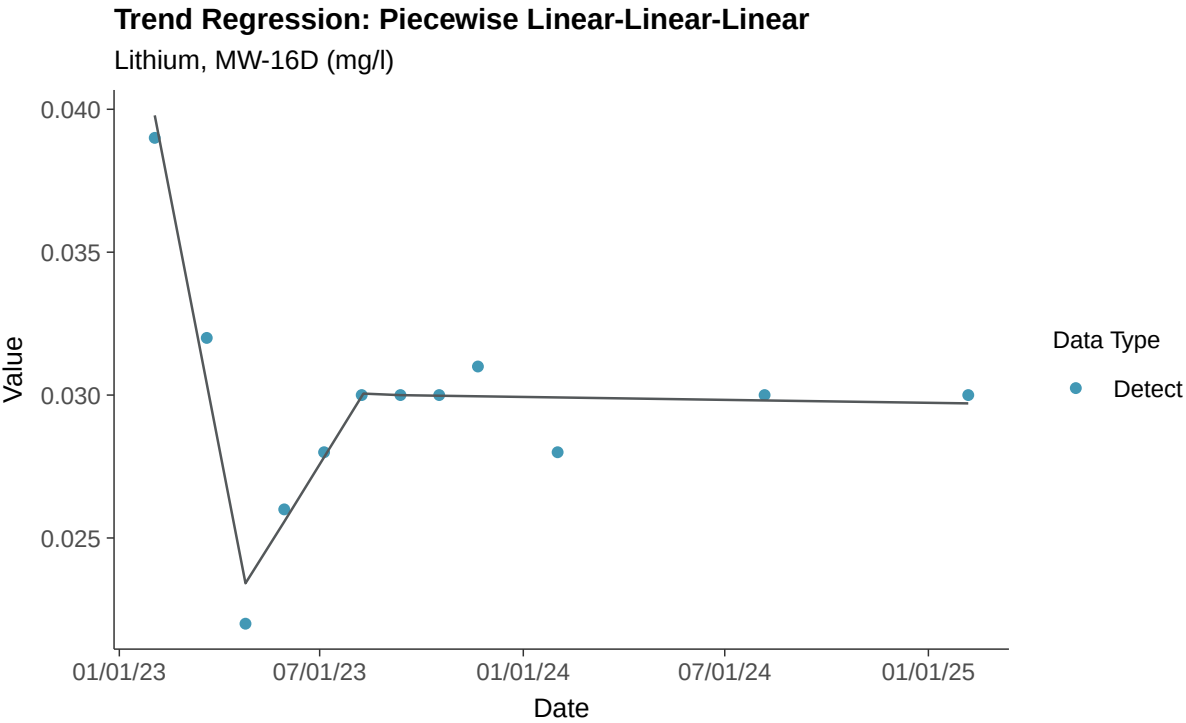
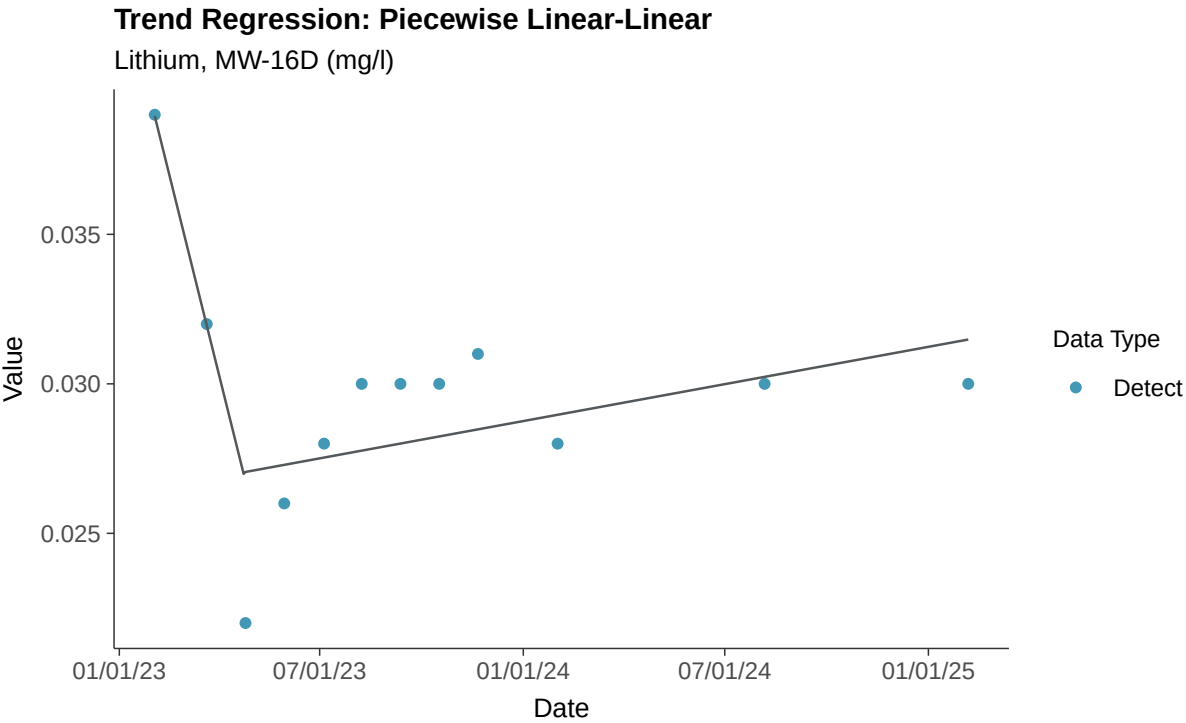
ID: 13_3_116







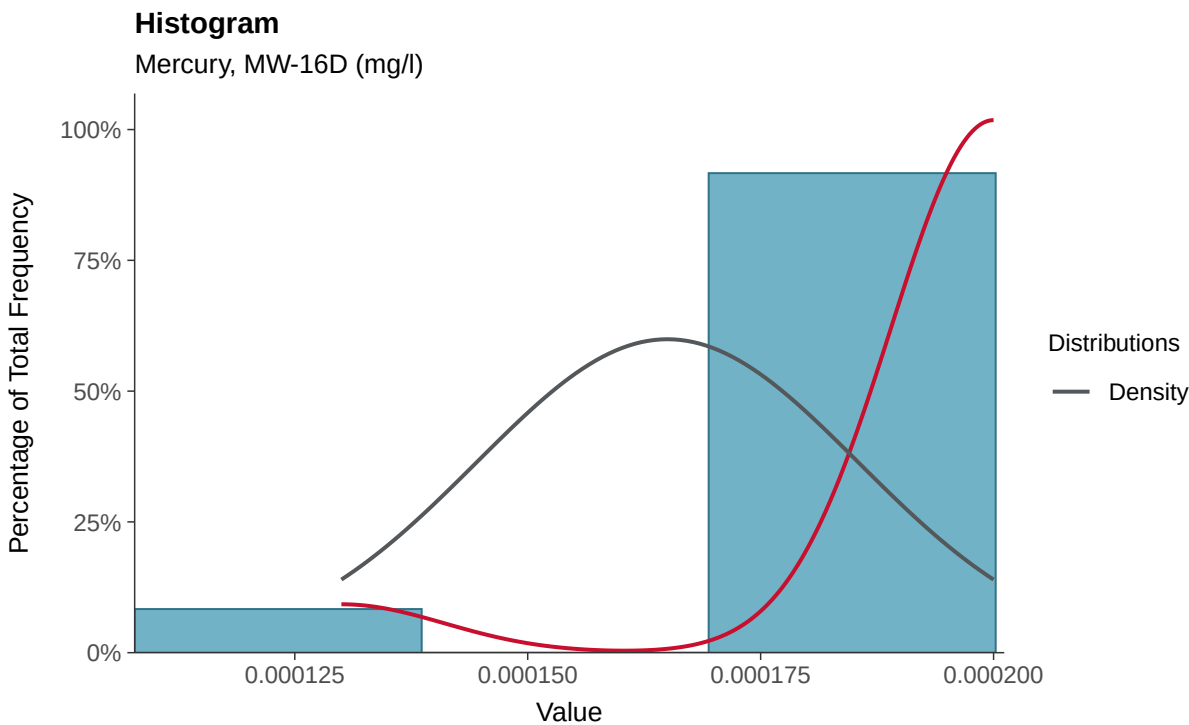
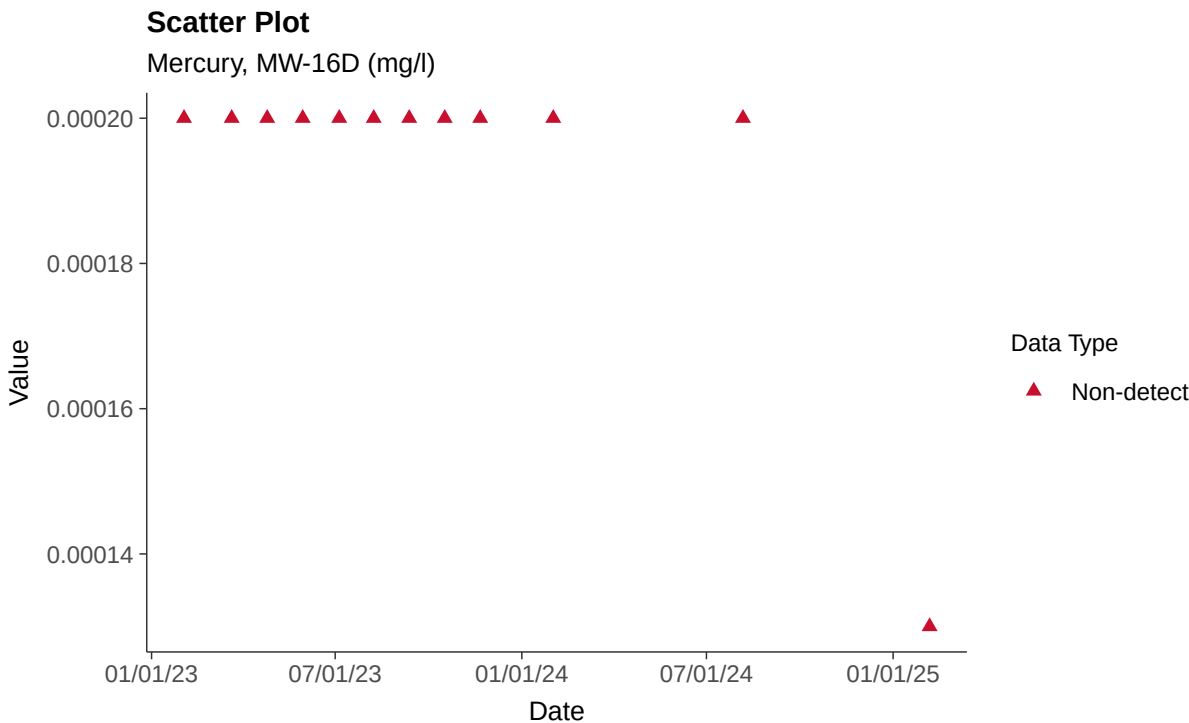


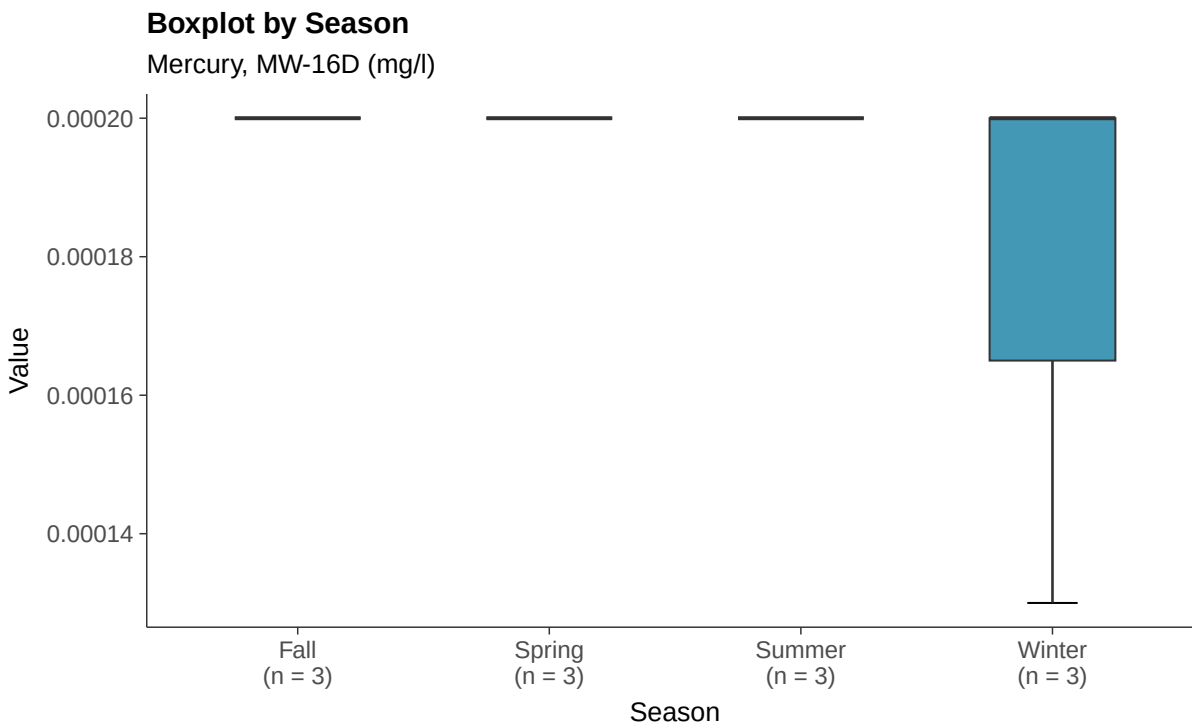
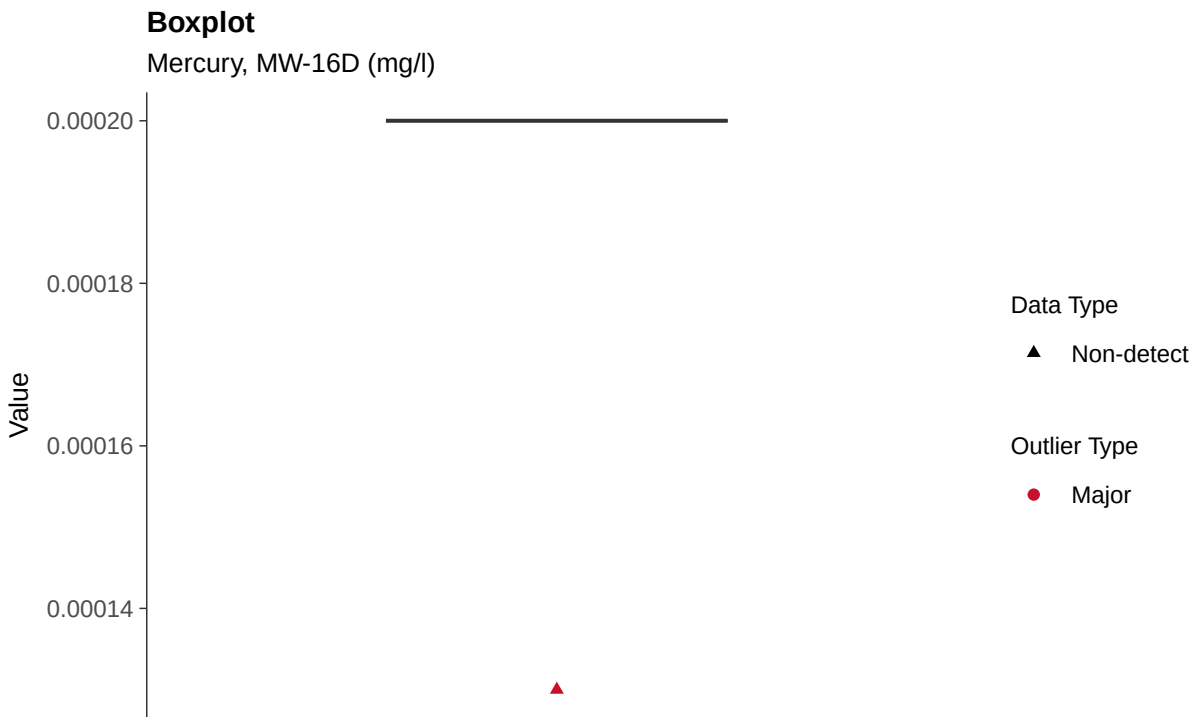




Appendix IV: Mercury, MW-16D

ID: 13_3_117

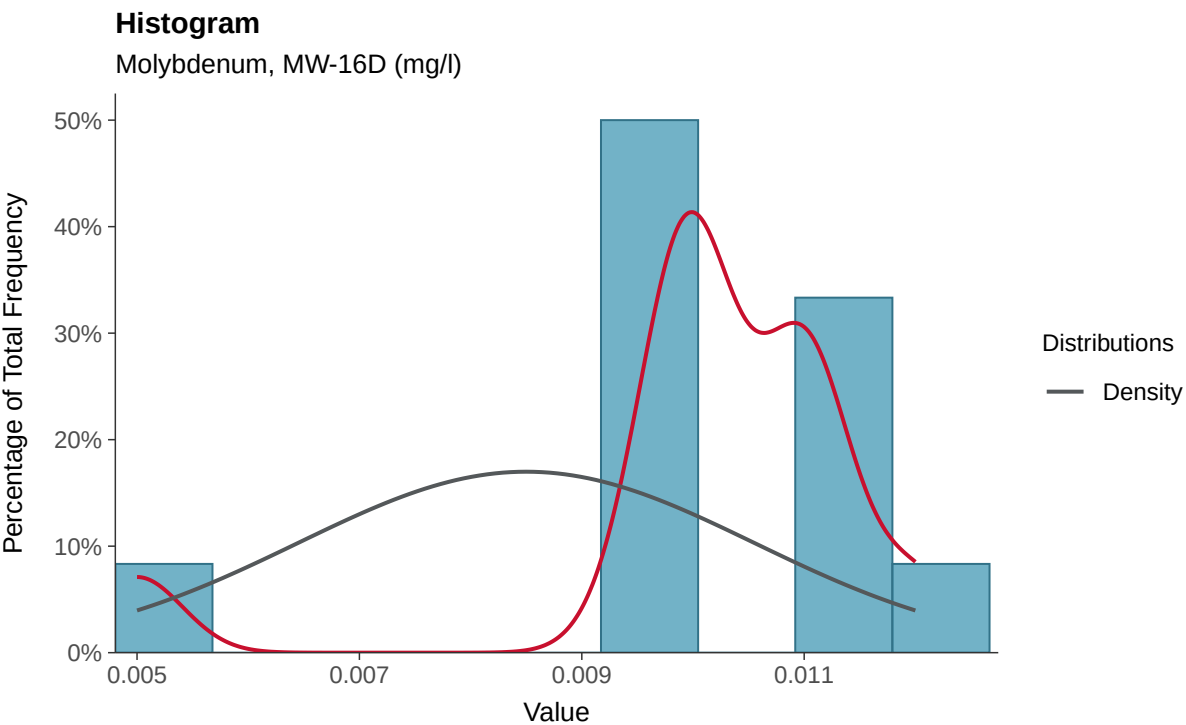
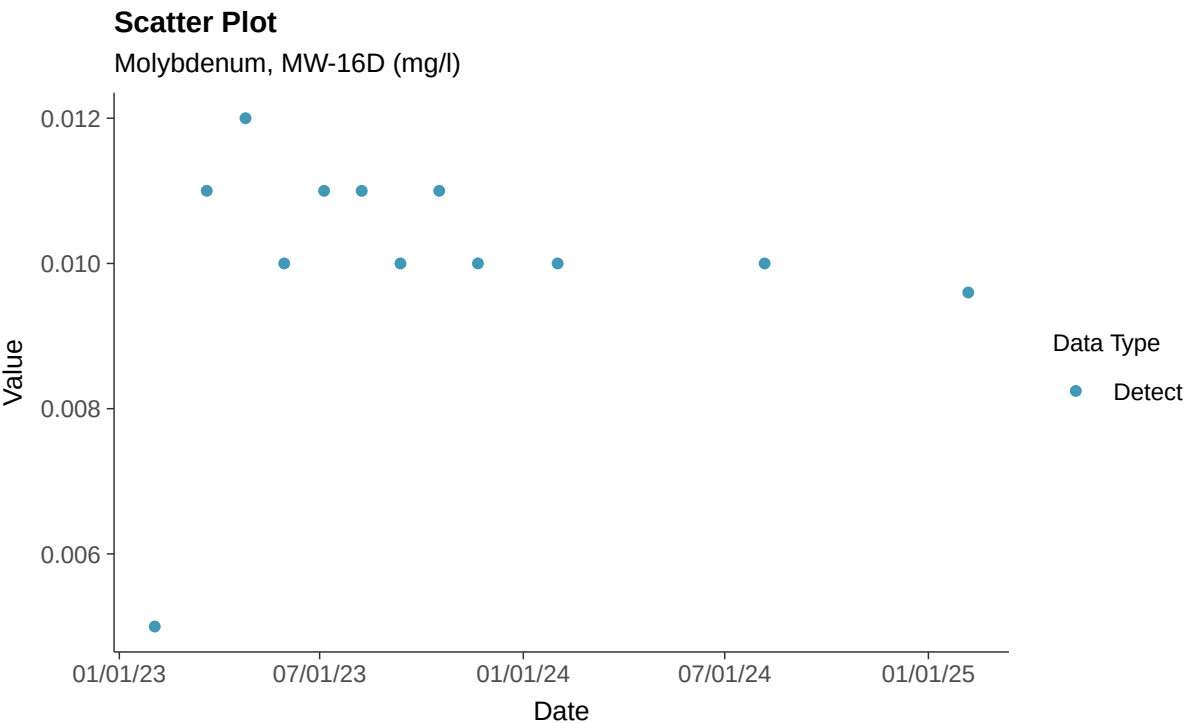


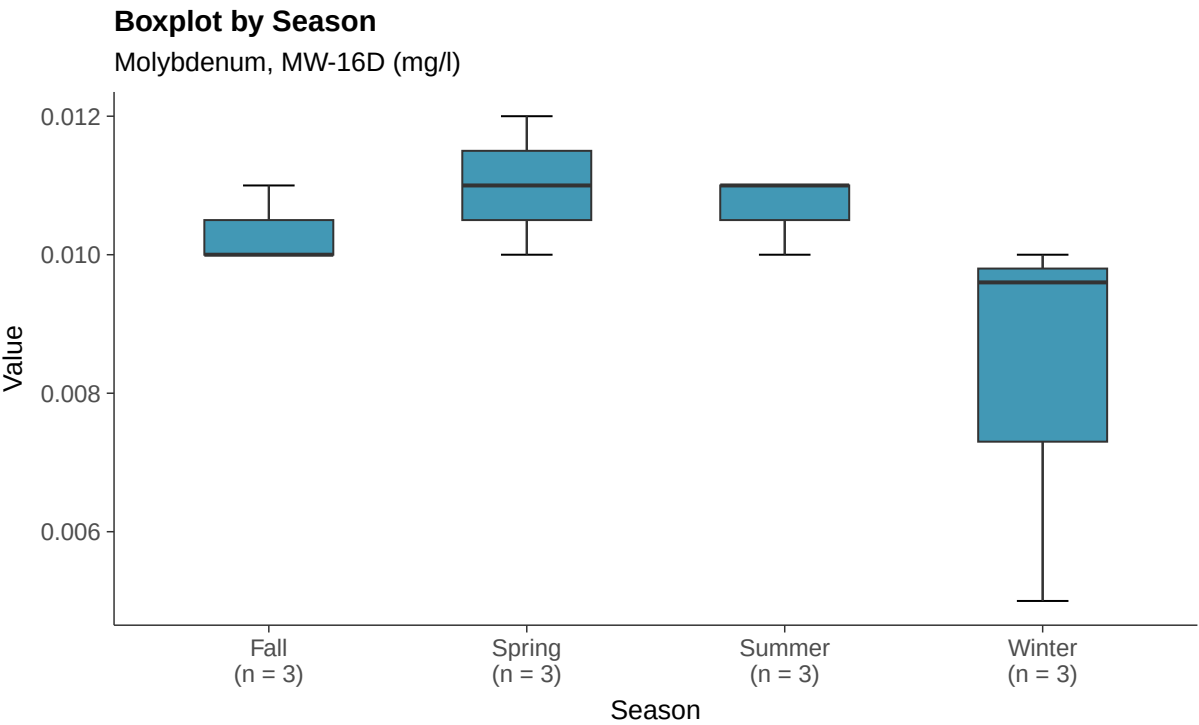
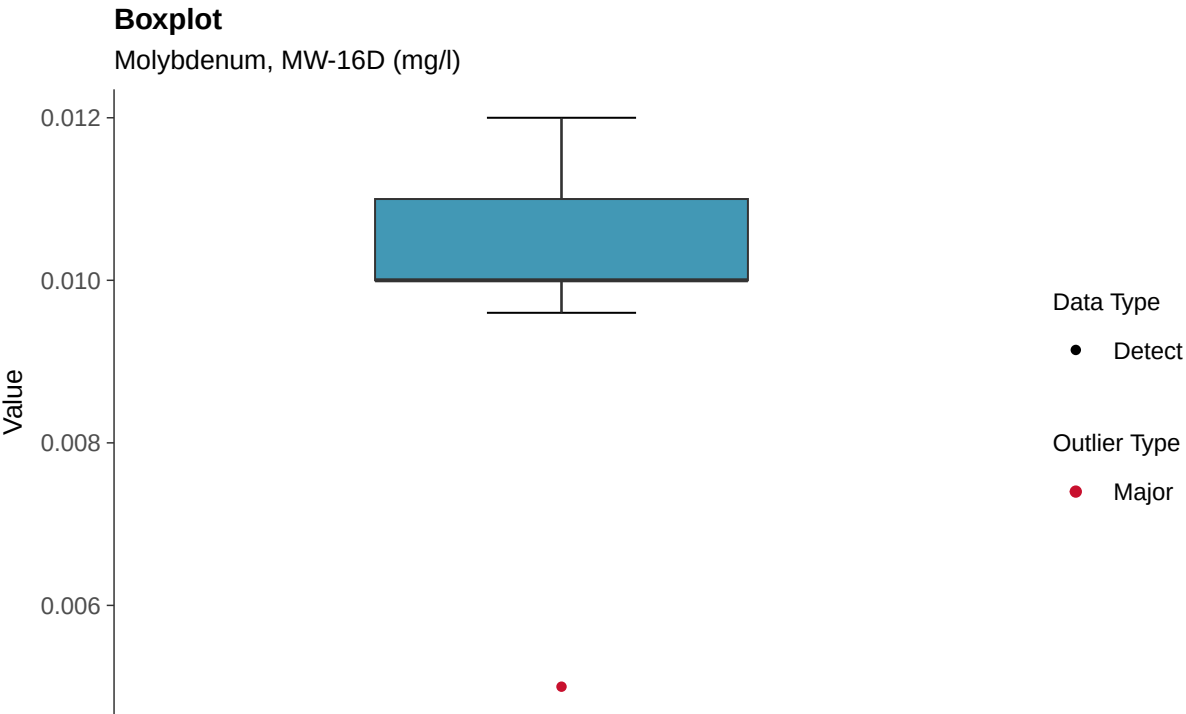


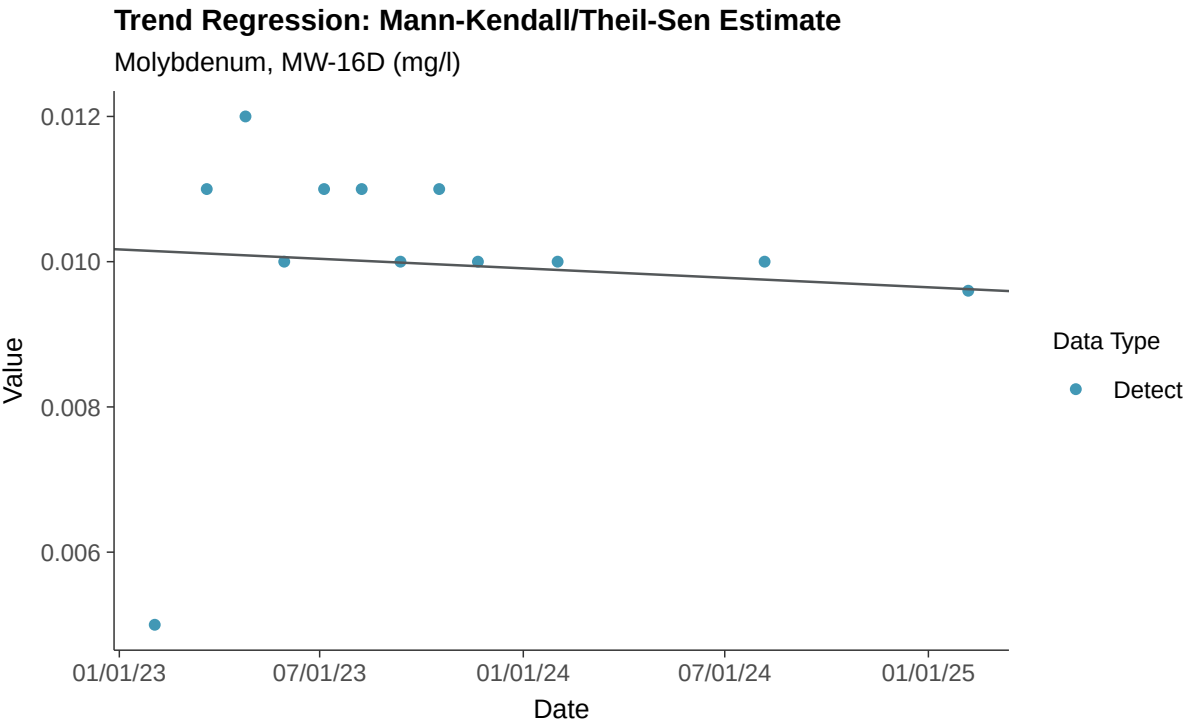
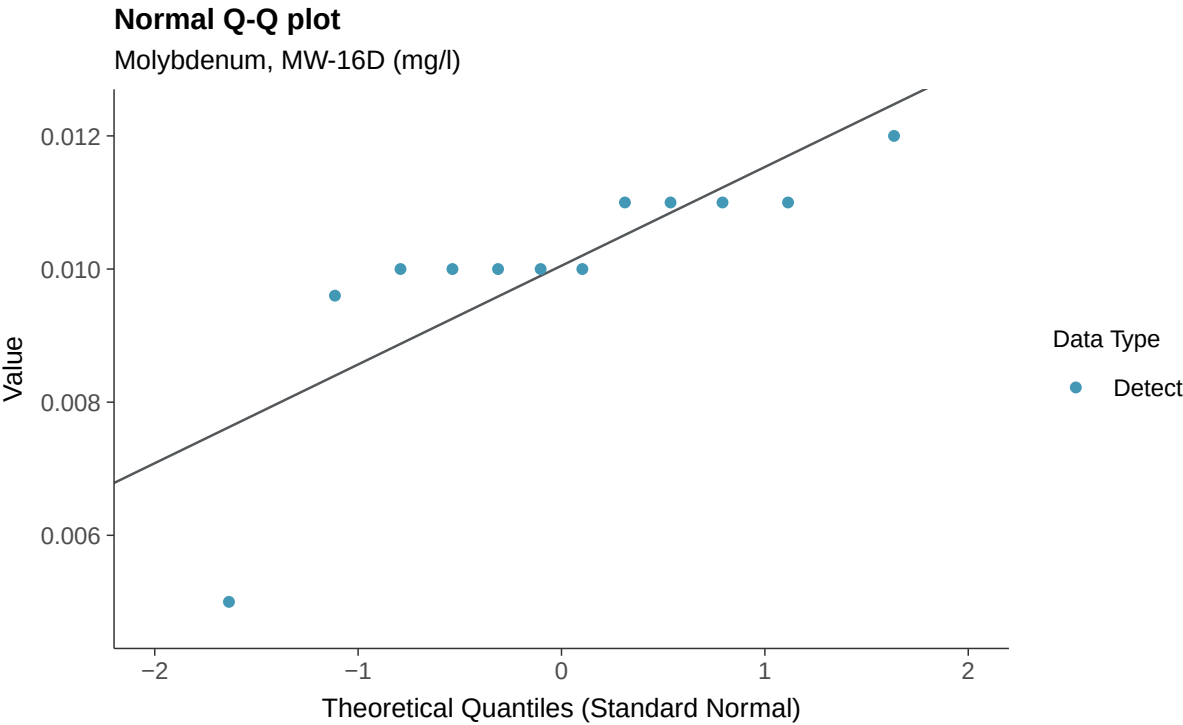


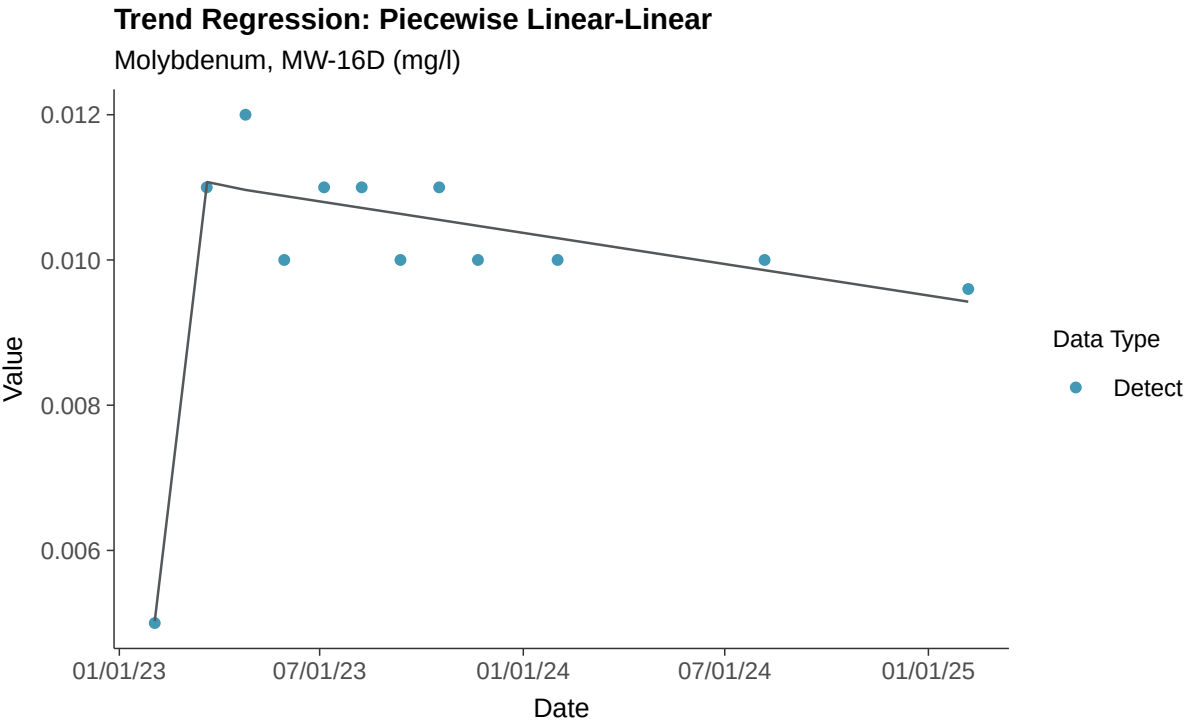
Appendix IV: Molybdenum, MW-16D

ID: 13_3_118





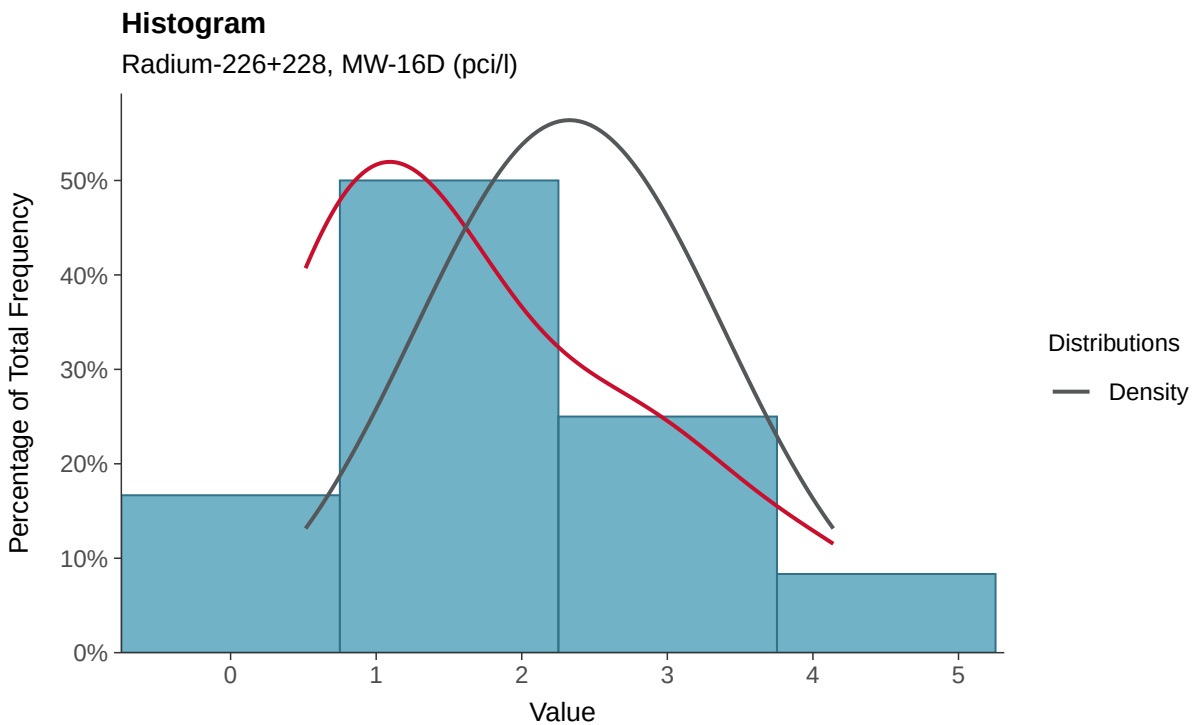
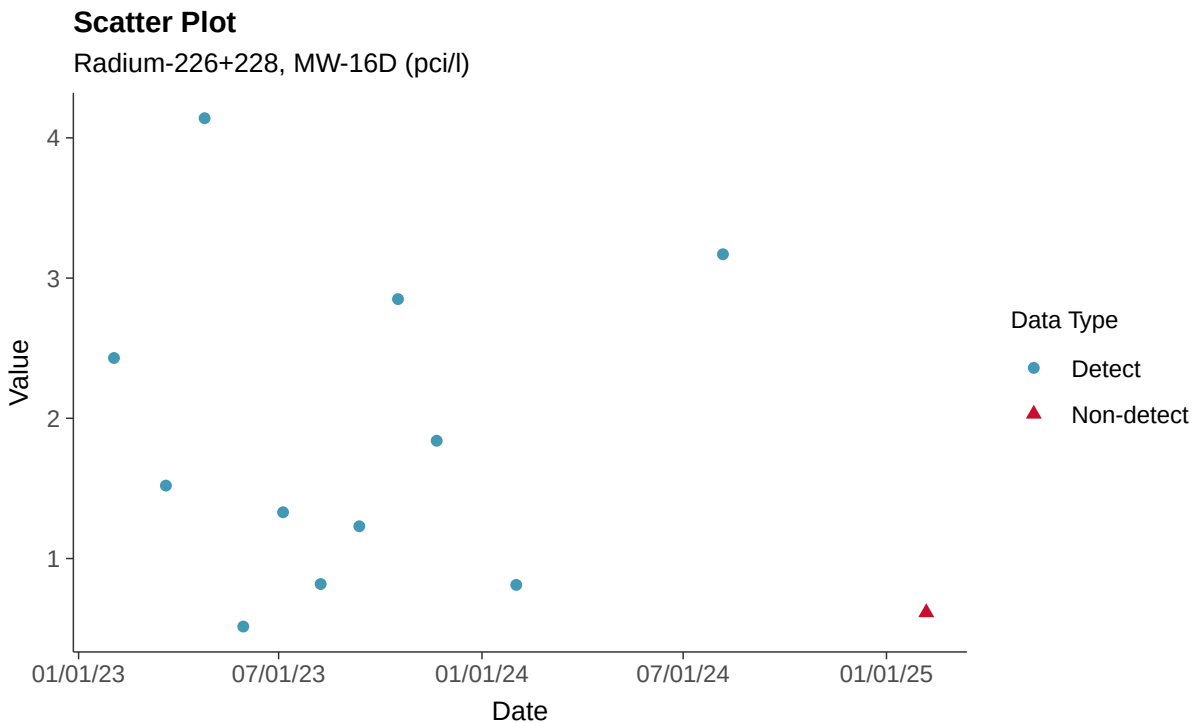






Appendix IV: Radium-226+228, MW-16D

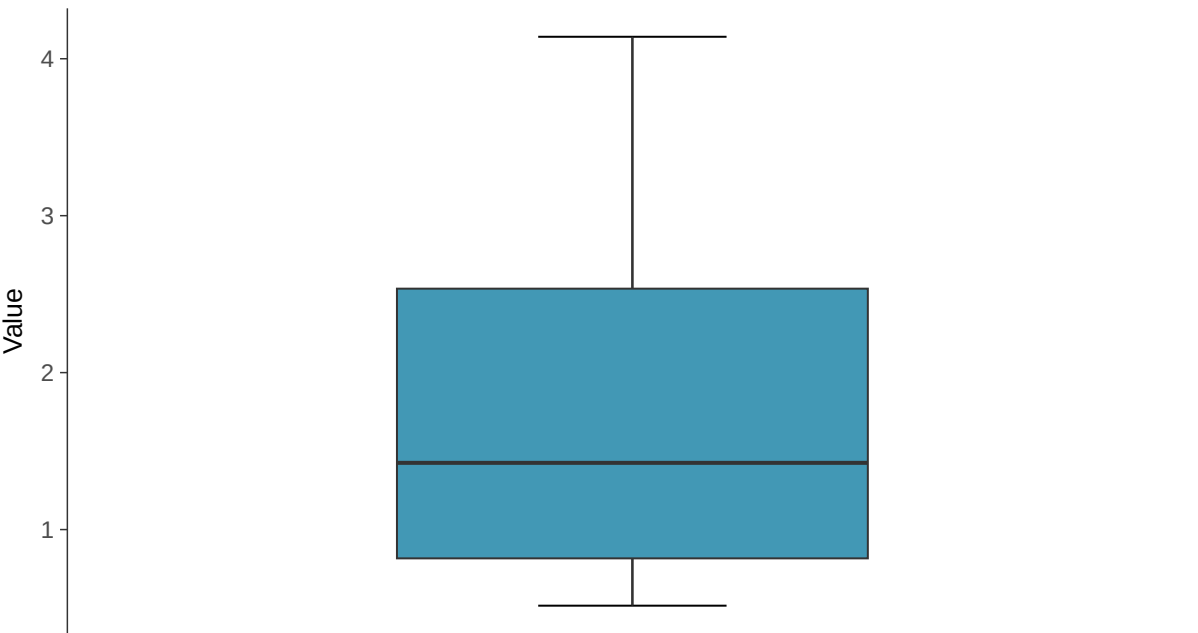
ID: 13_3_121





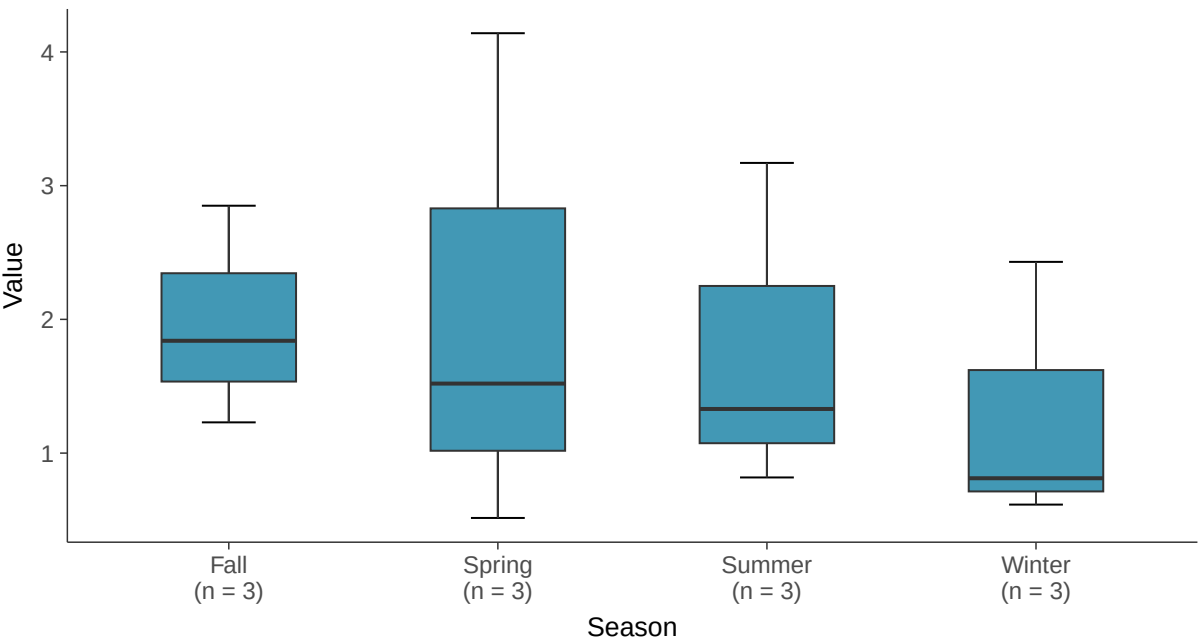
Boxplot

Radium-226+228, MW-16D (pci/l)



Boxplot by Season

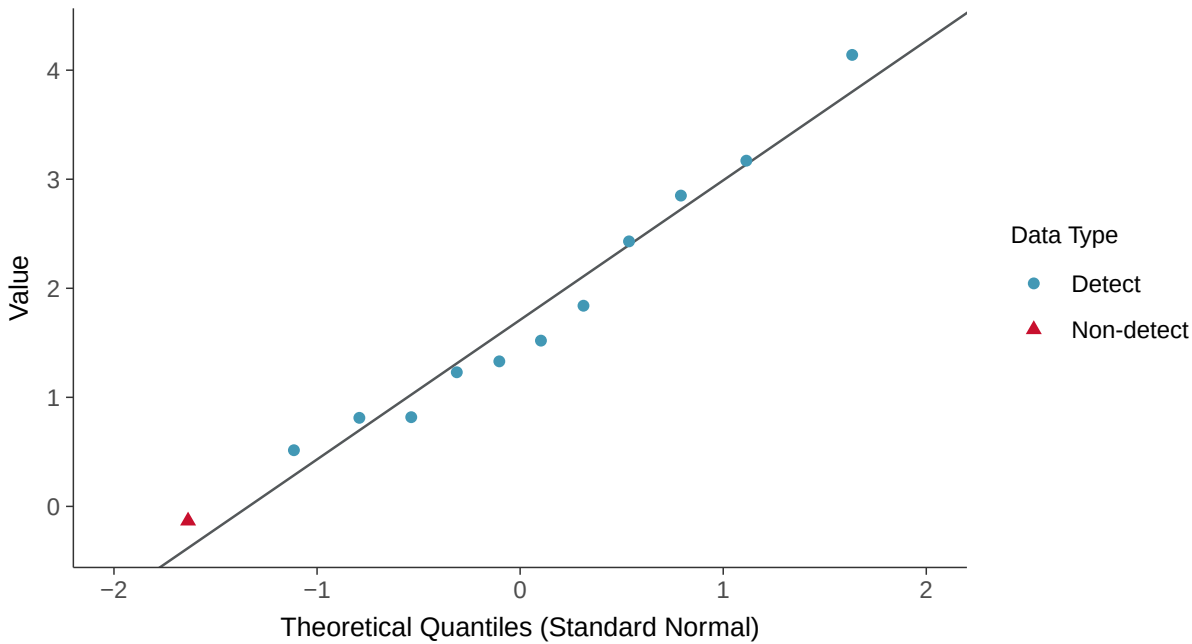
Radium-226+228, MW-16D (pci/l)





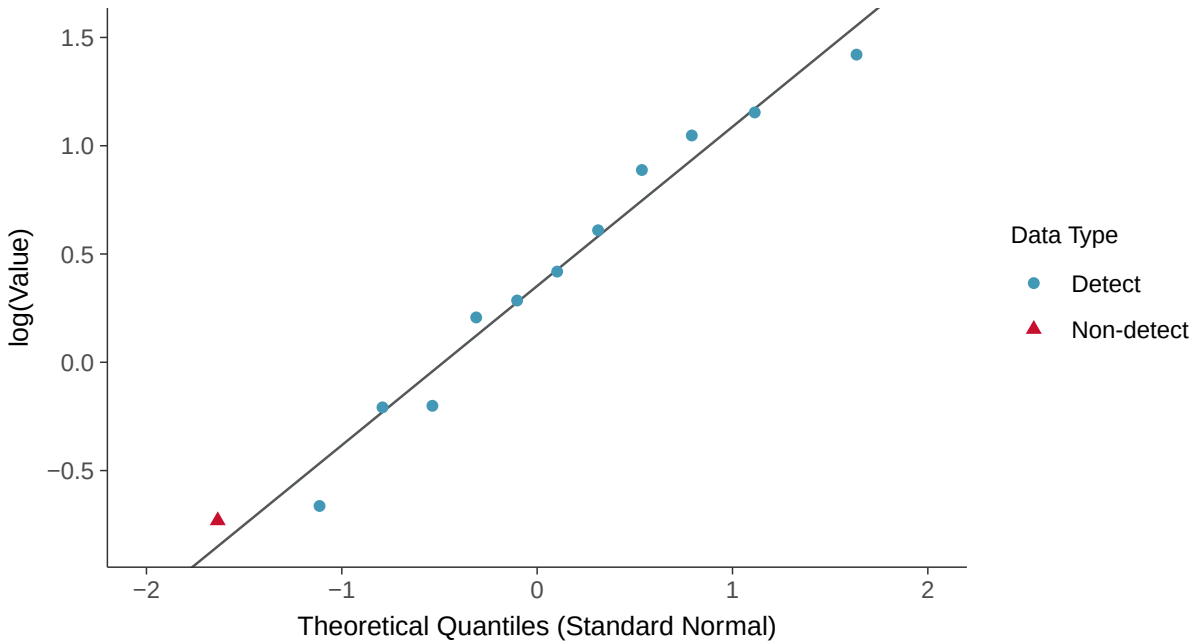
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-16D (pci/l)



Lognormal Q-Q plot using ROS Imputed Estimates

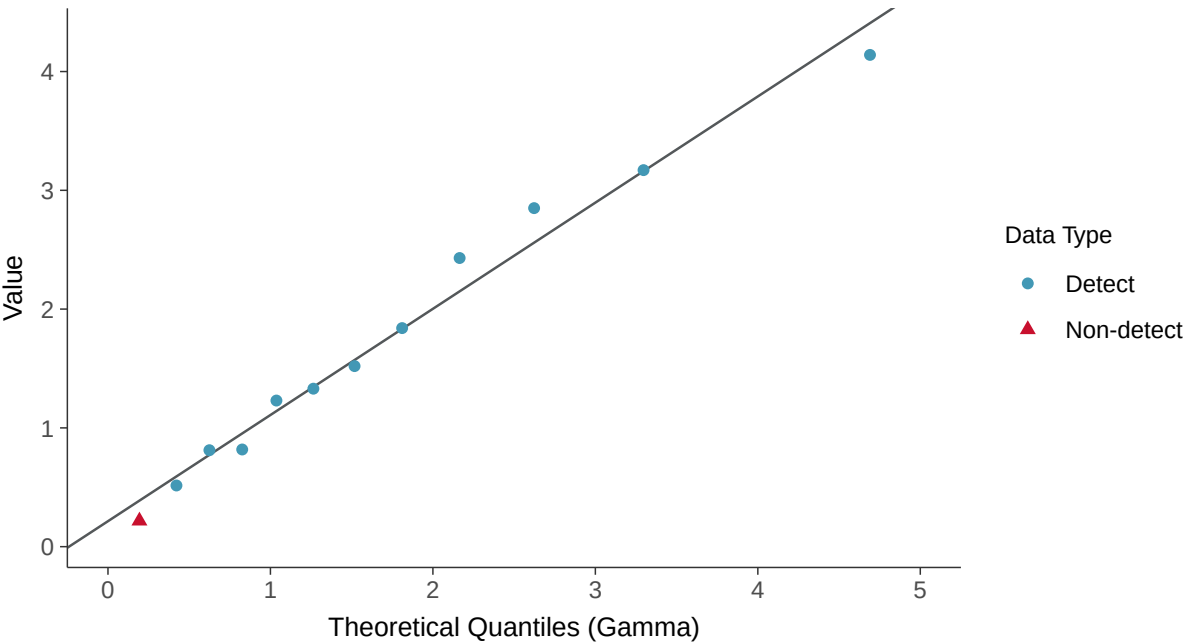
Radium-226+228, MW-16D (pci/l)





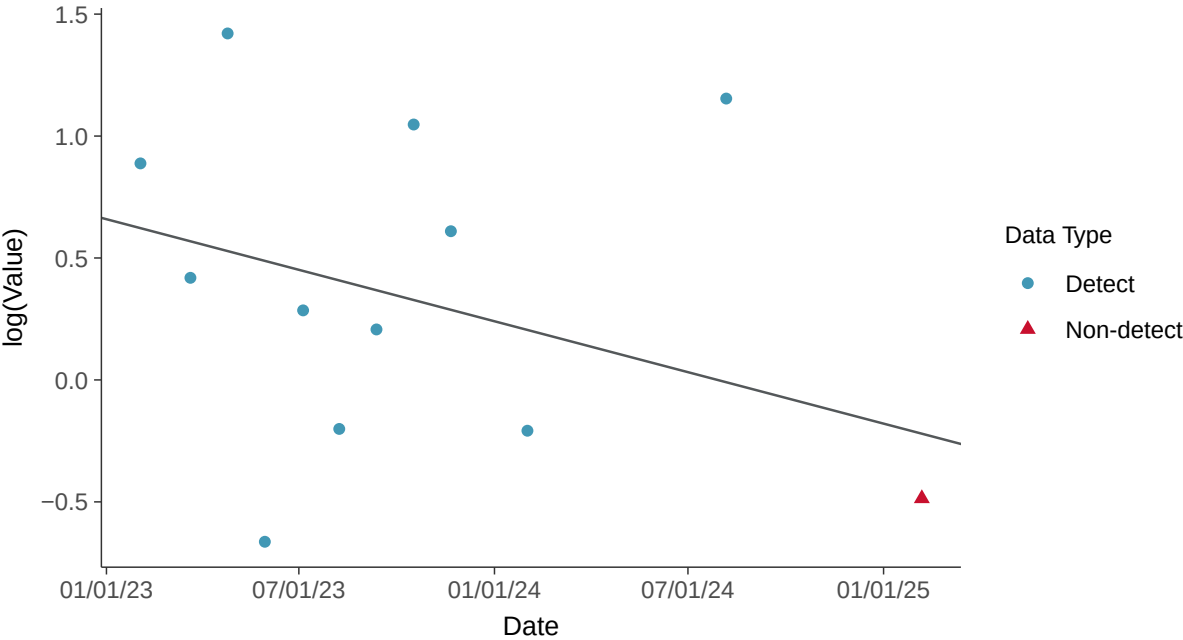
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-16D (pci/l)



Trend Regression: Lognormal MLE

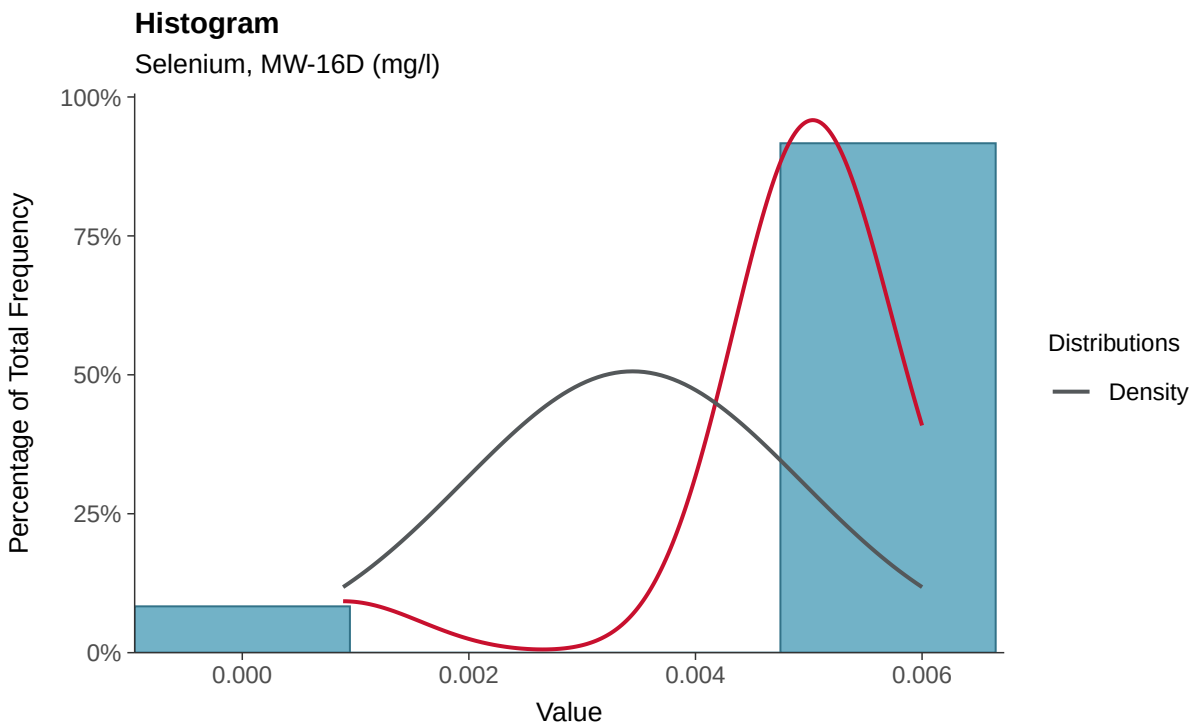
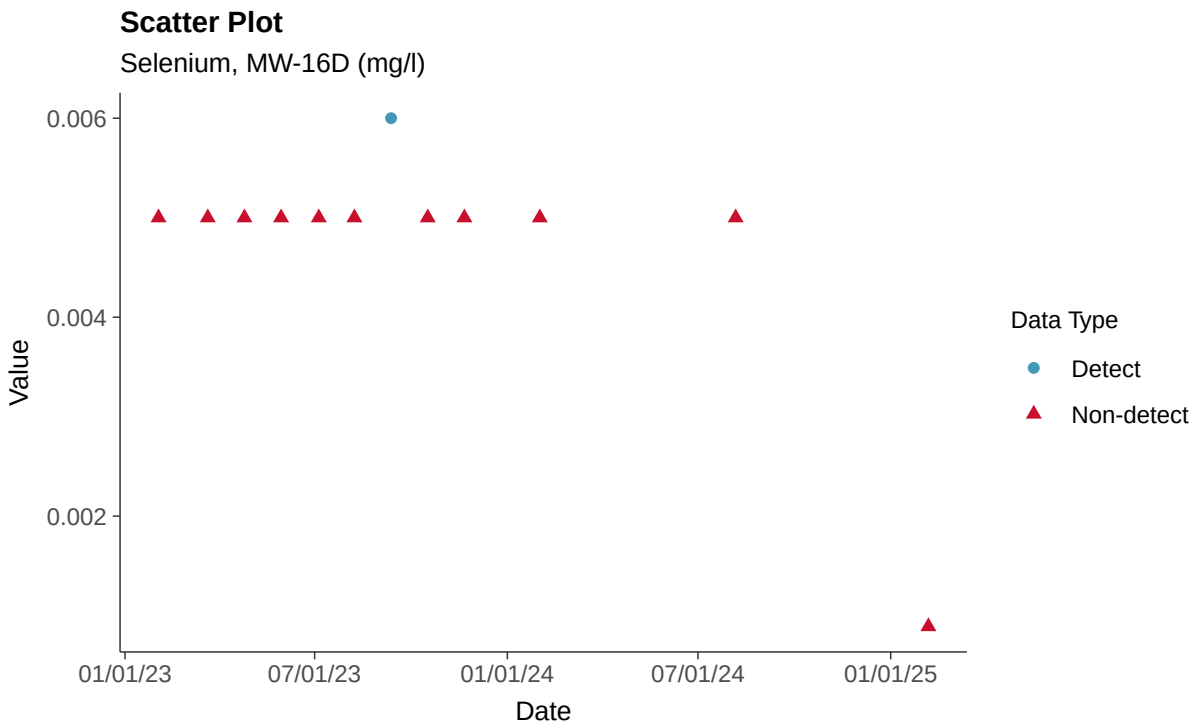
Radium-226+228, MW-16D (pci/l)

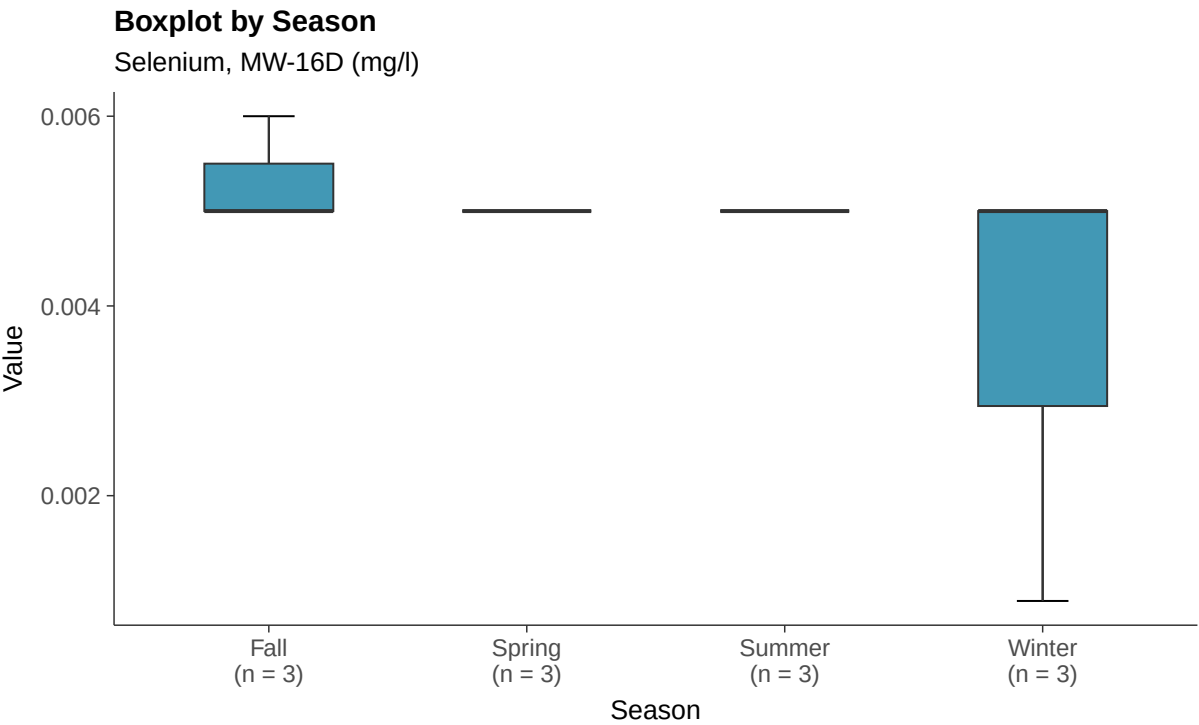
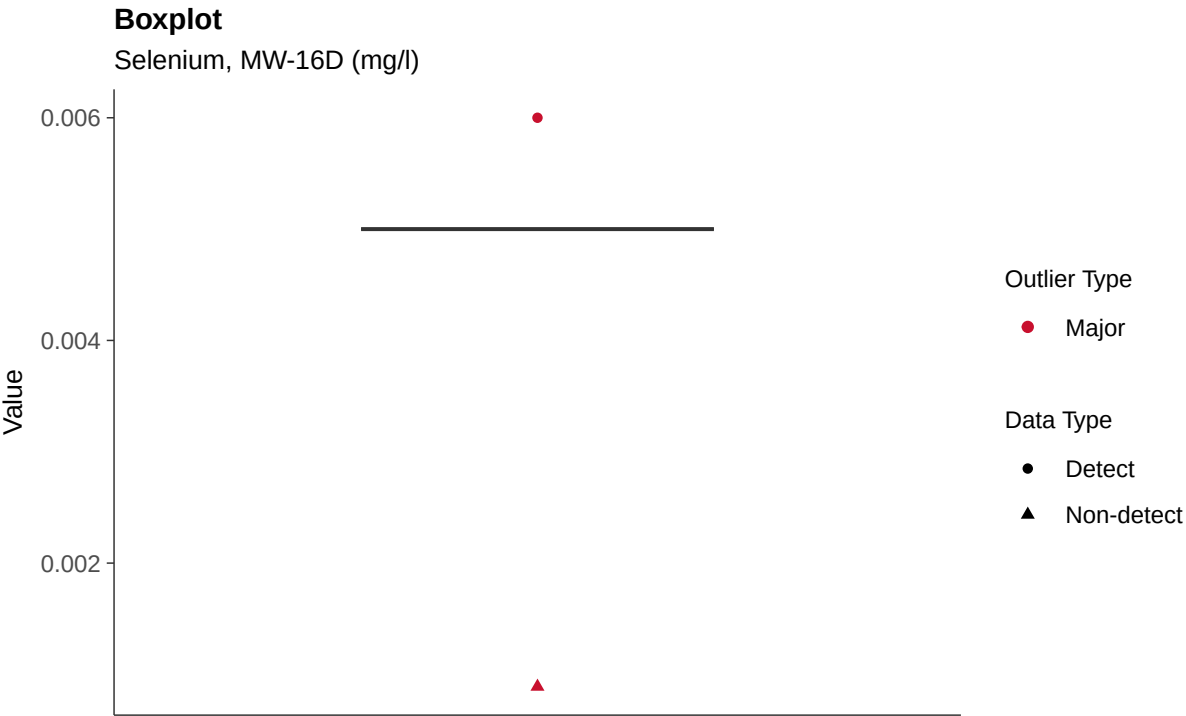


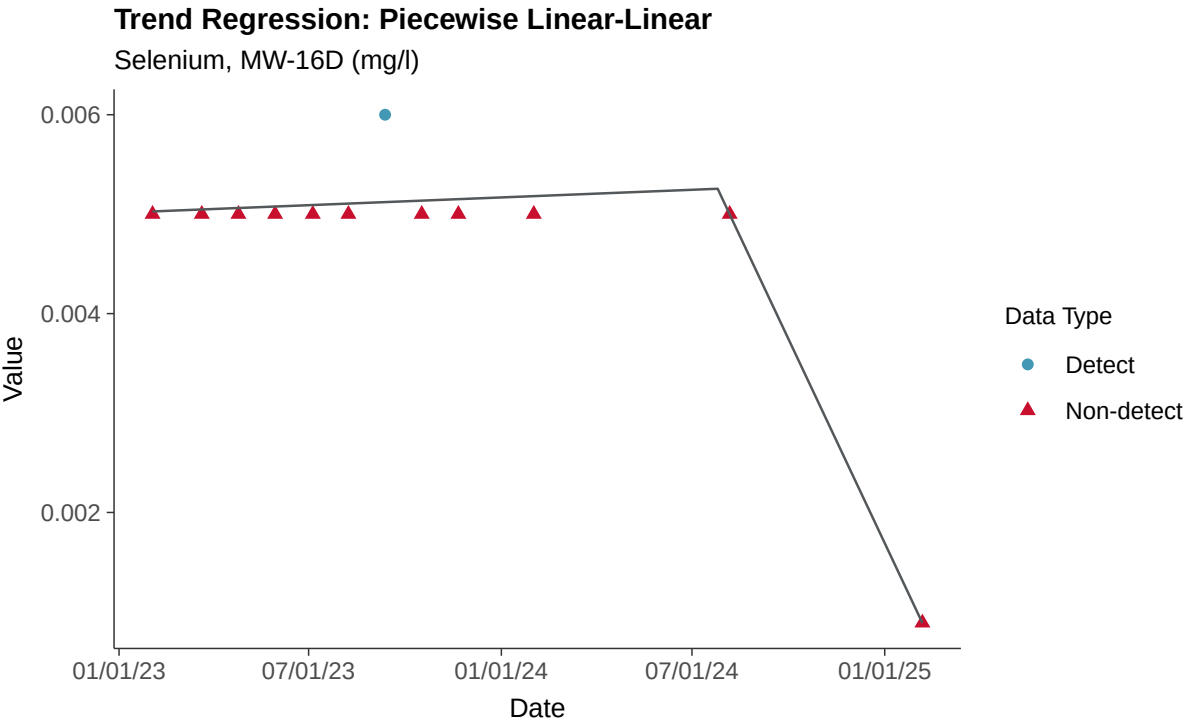


Appendix IV: Selenium, MW-16D

ID: 13_3_122



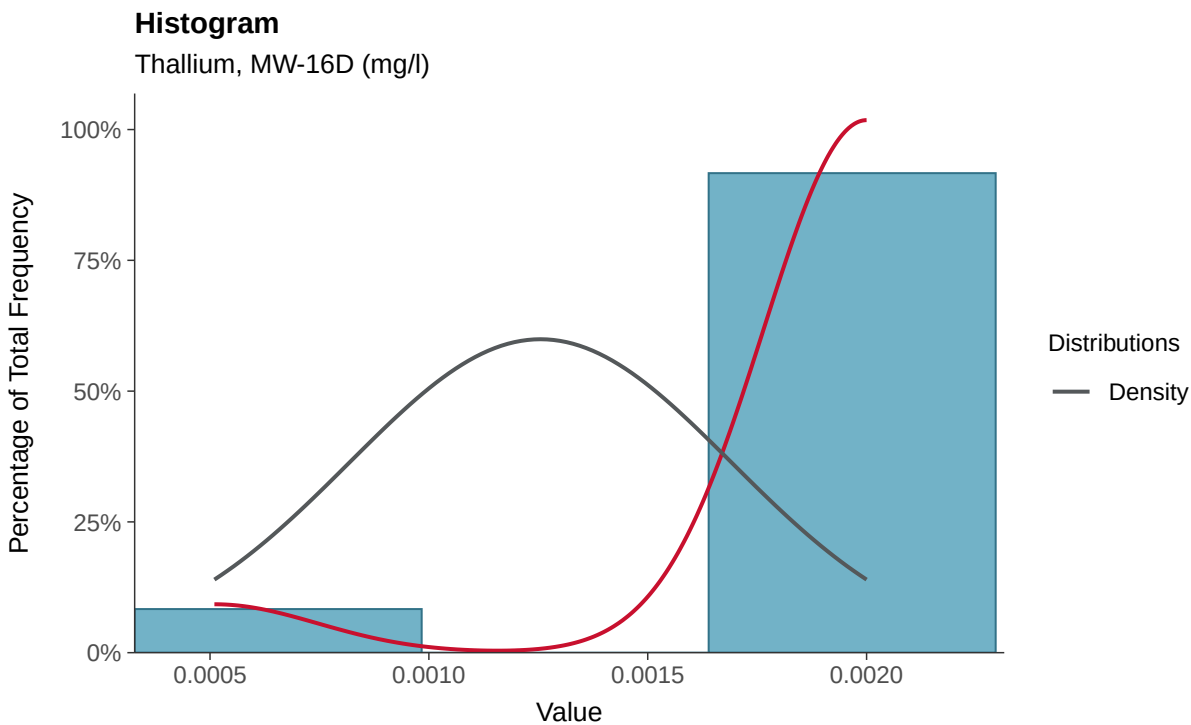
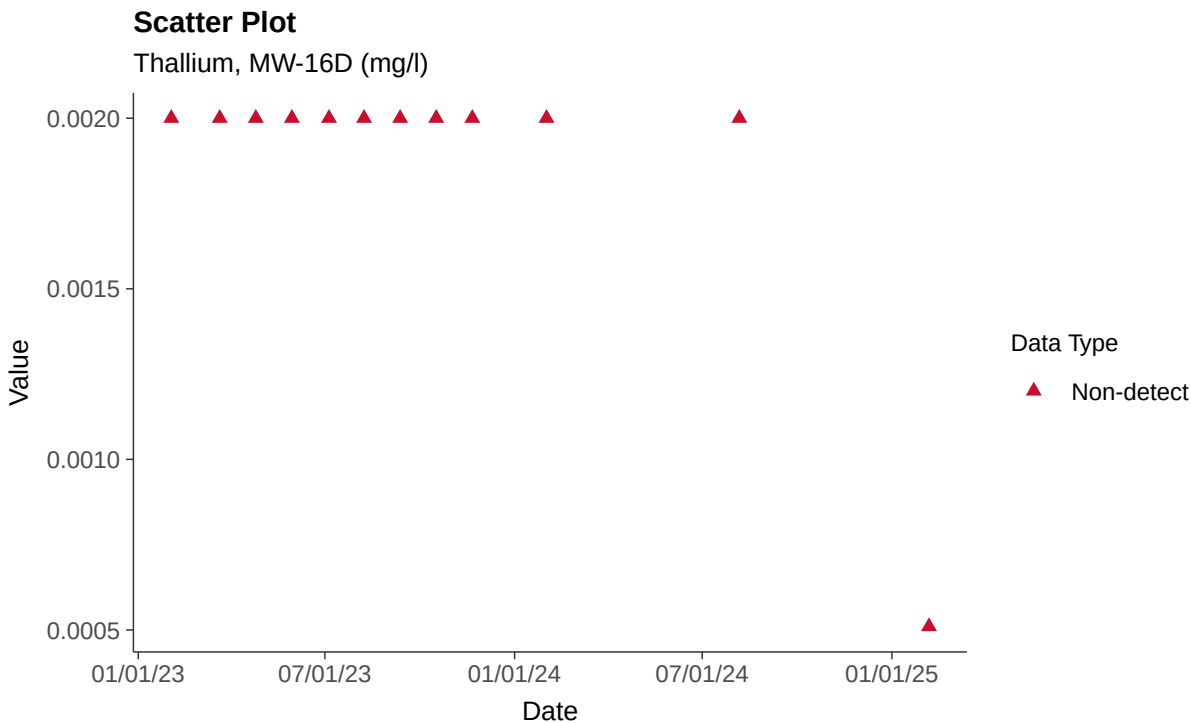


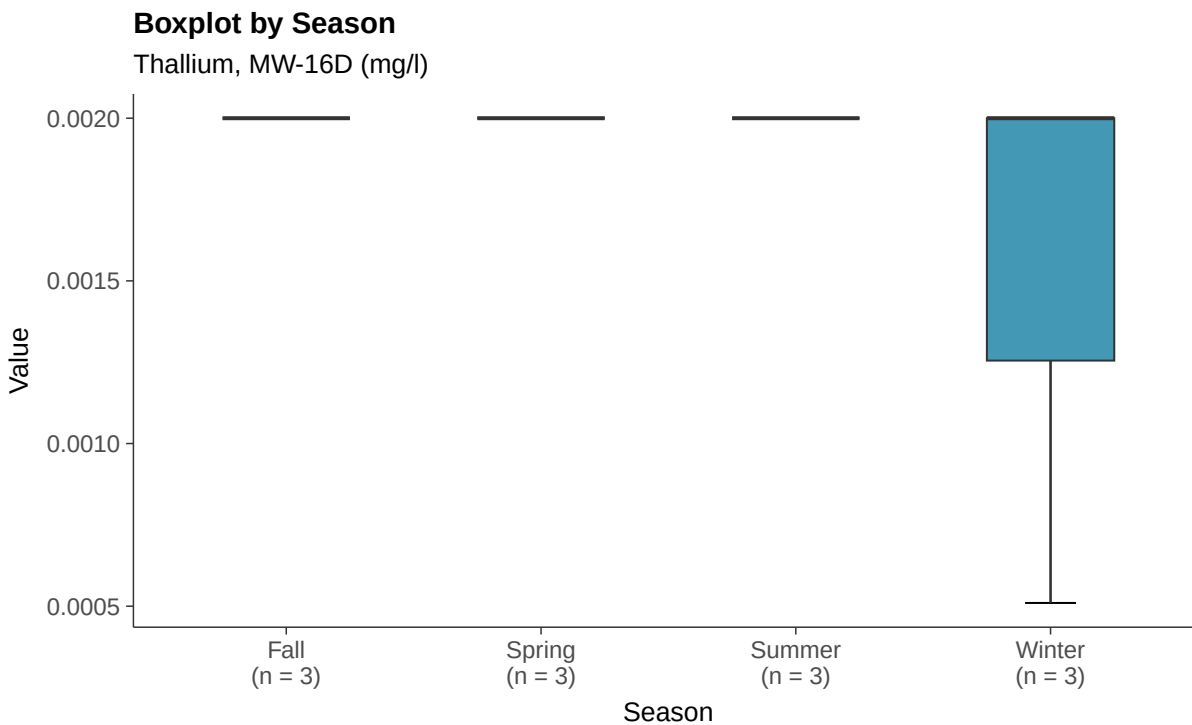
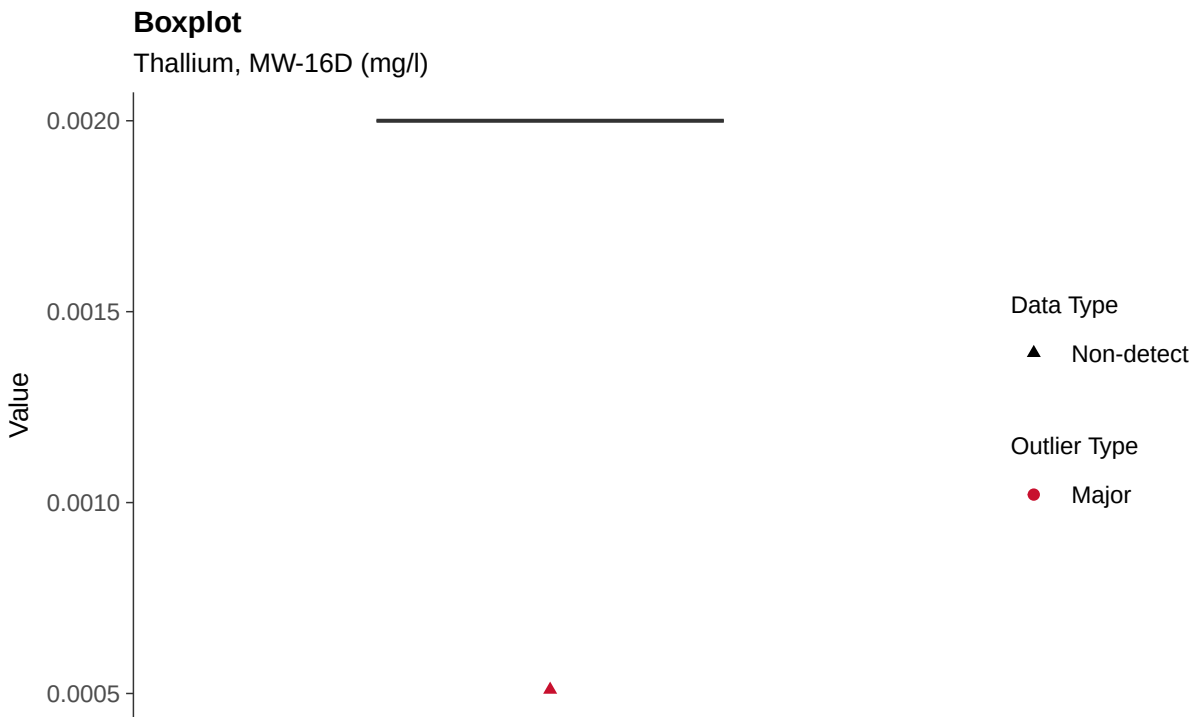




Appendix IV: Thallium, MW-16D

ID: 13_3_125

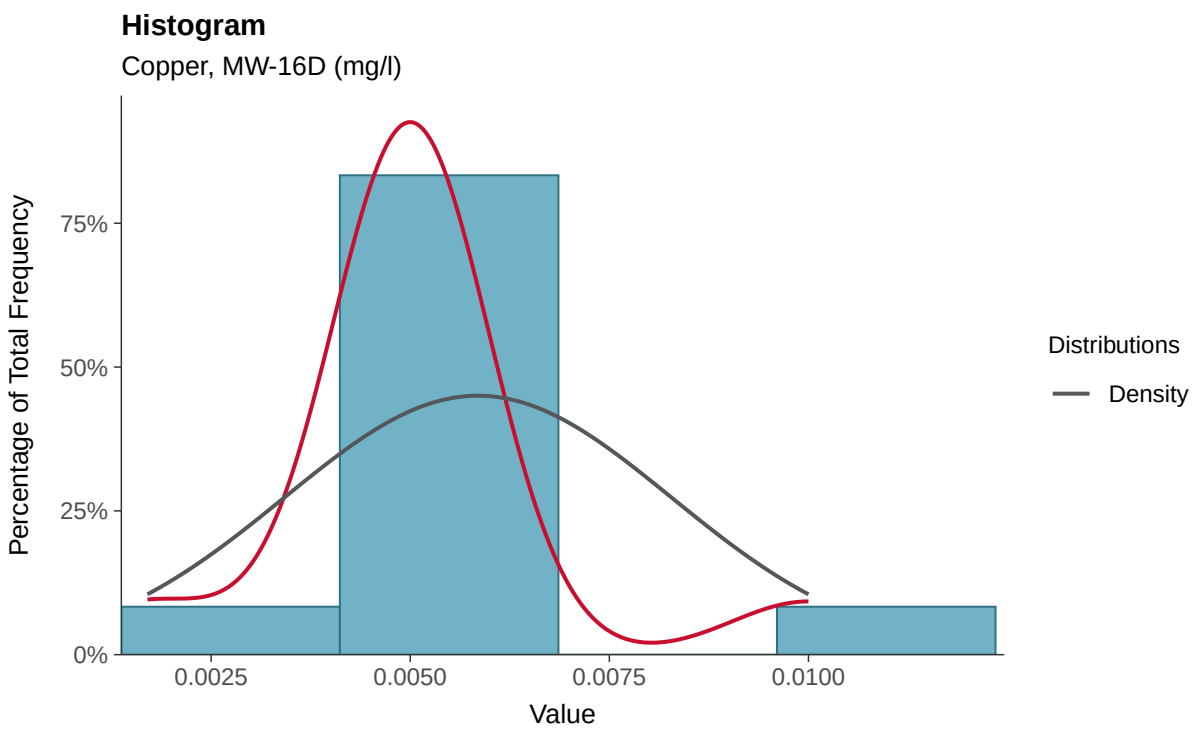
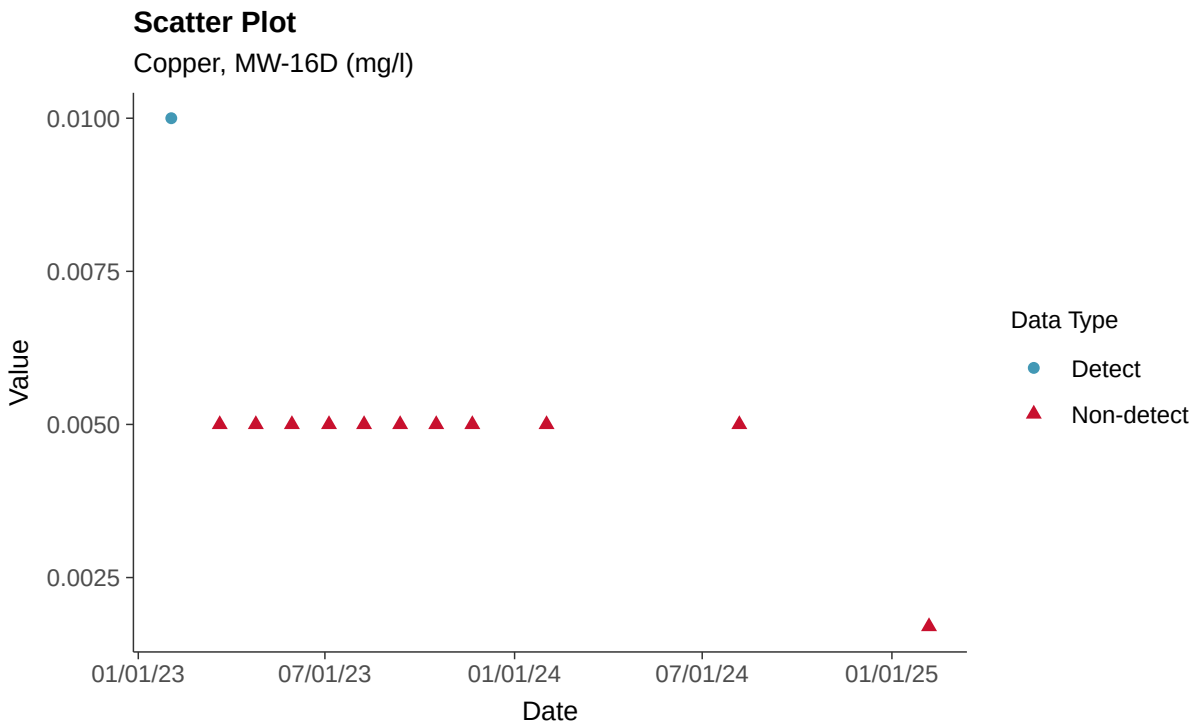


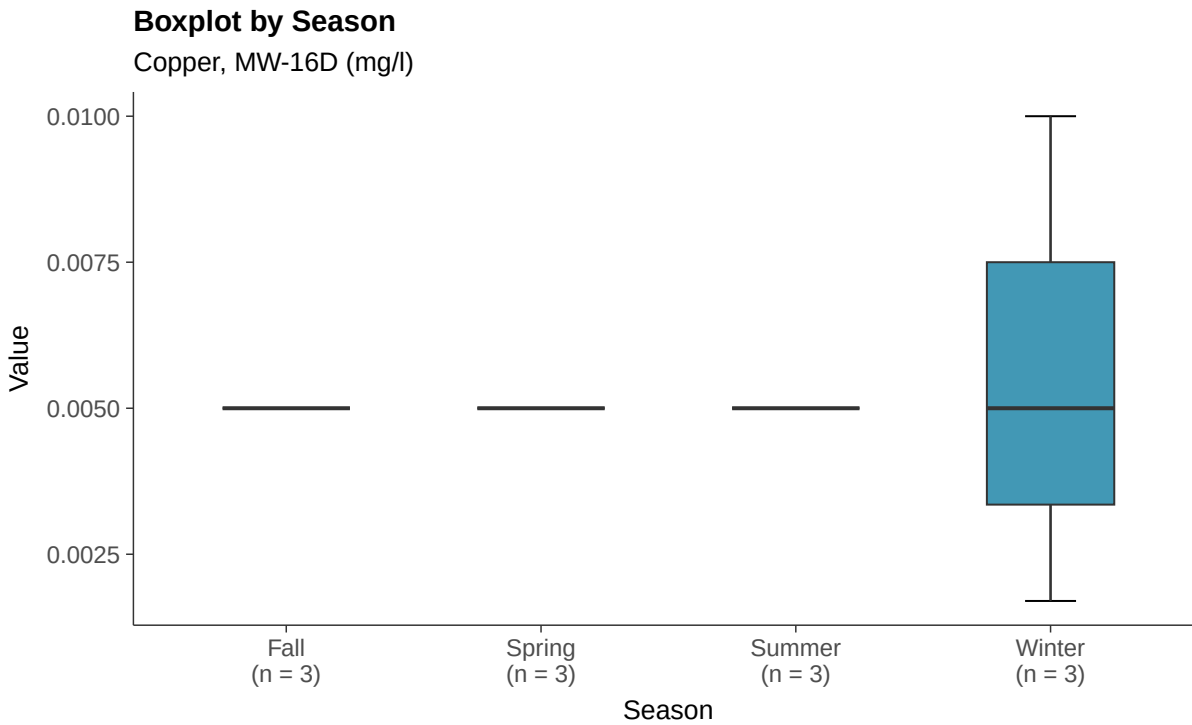
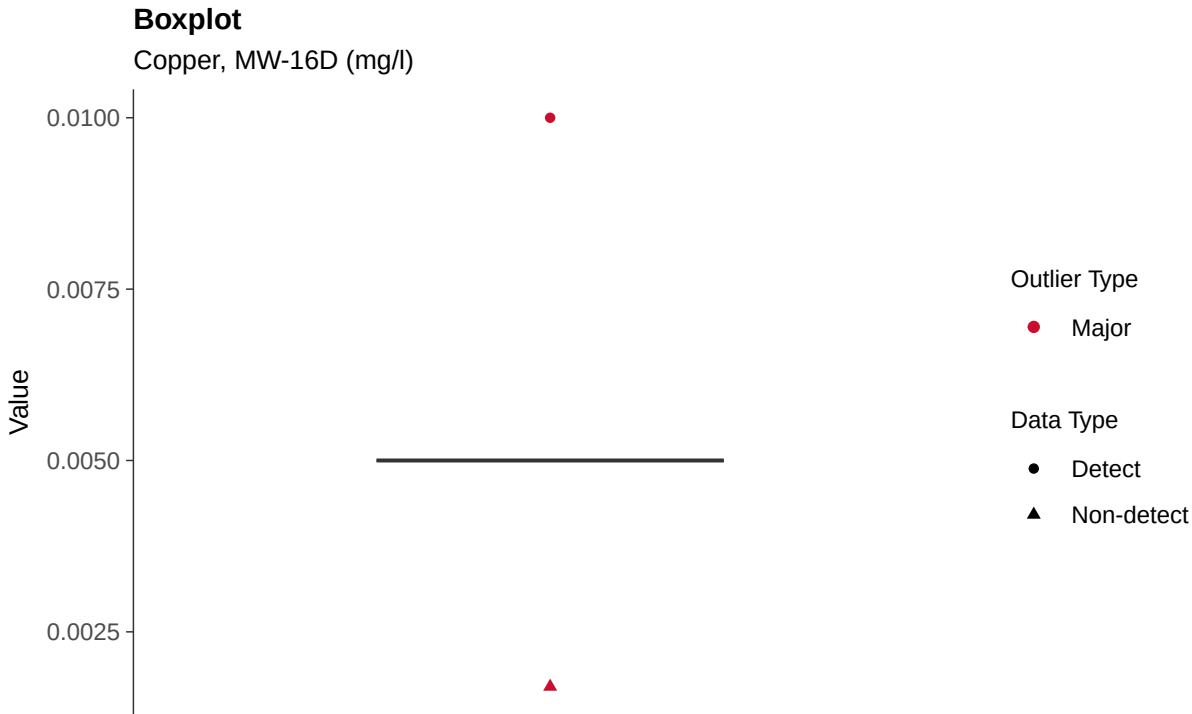




Part 115: Copper, MW-16D

ID: 13_5_111

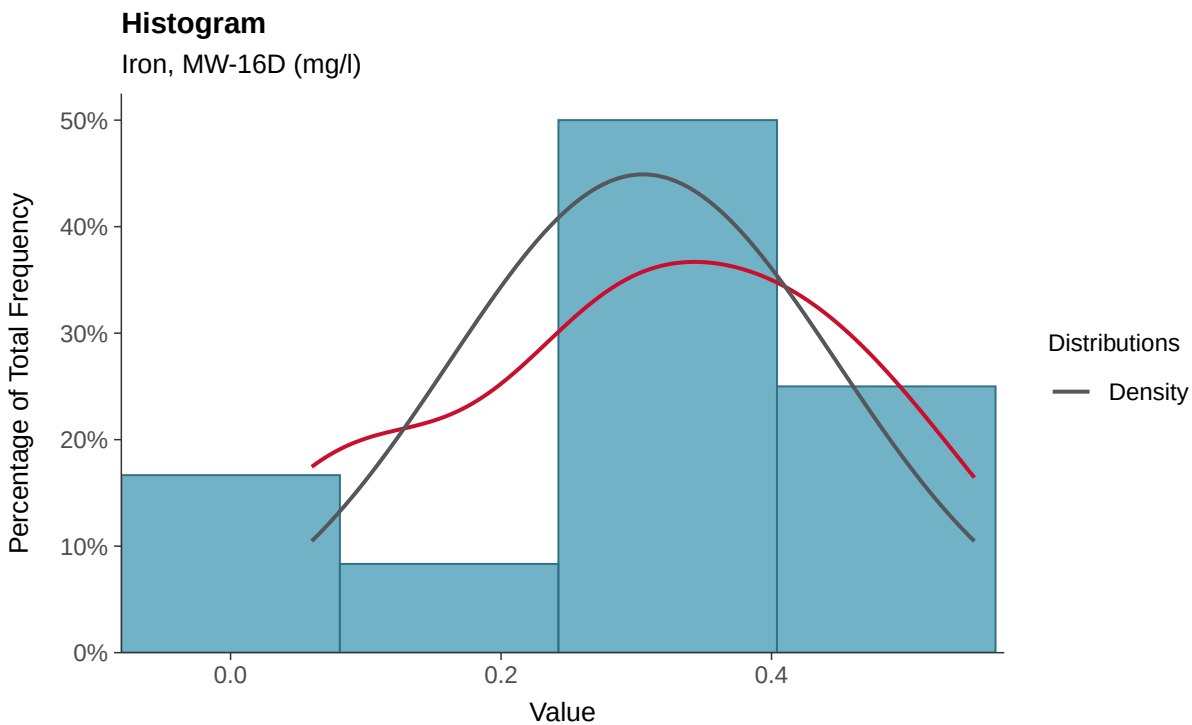
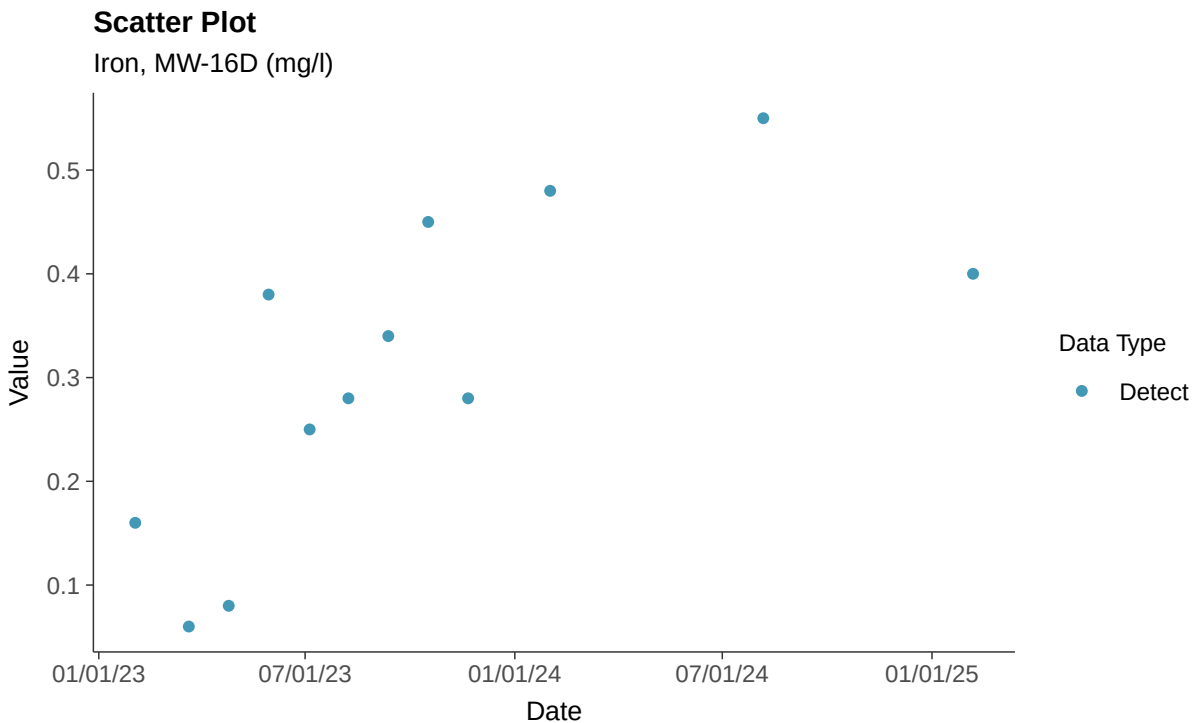


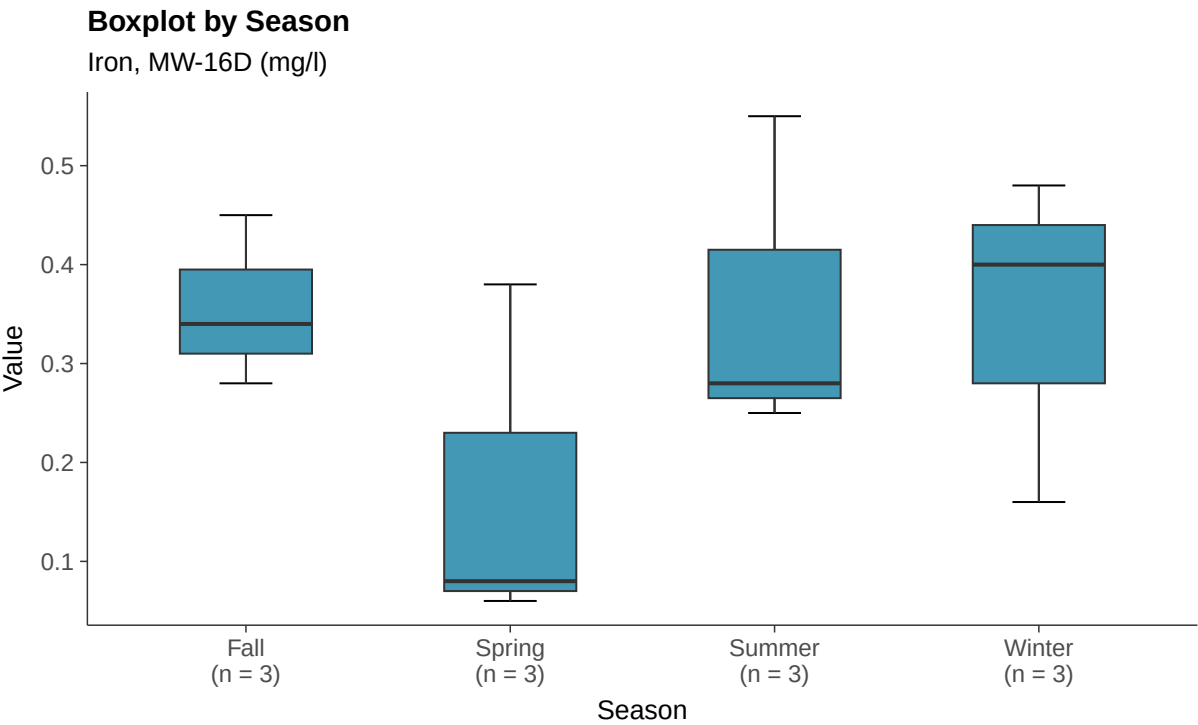
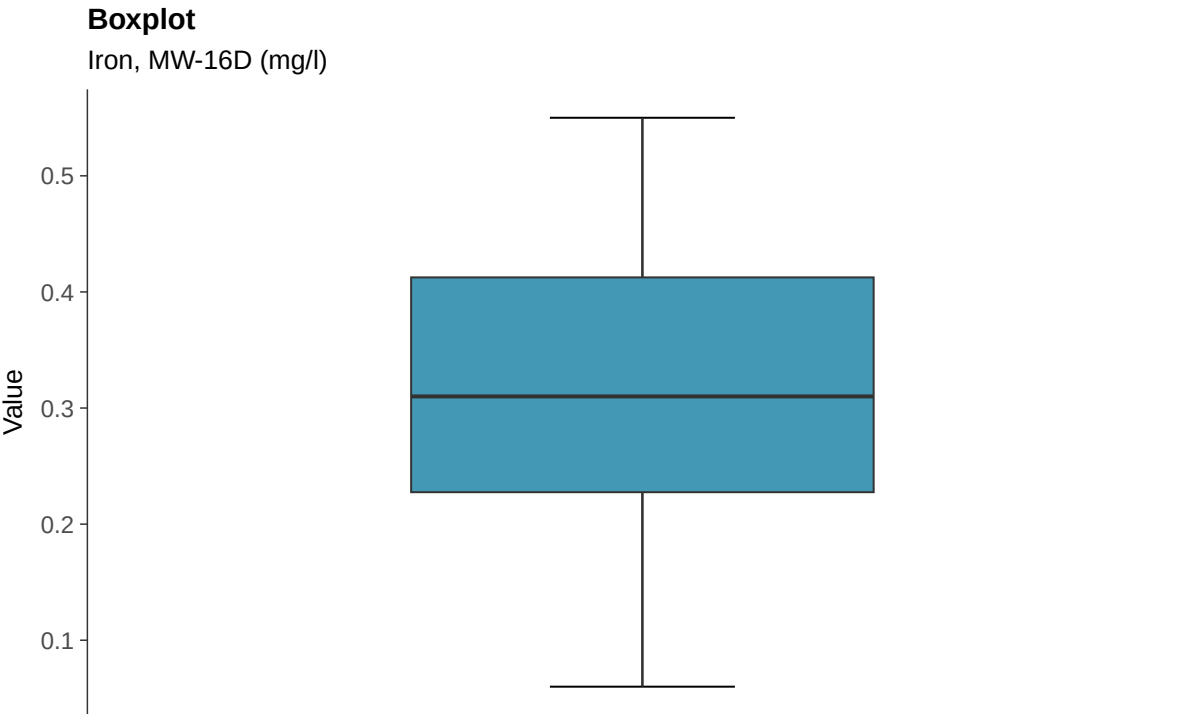


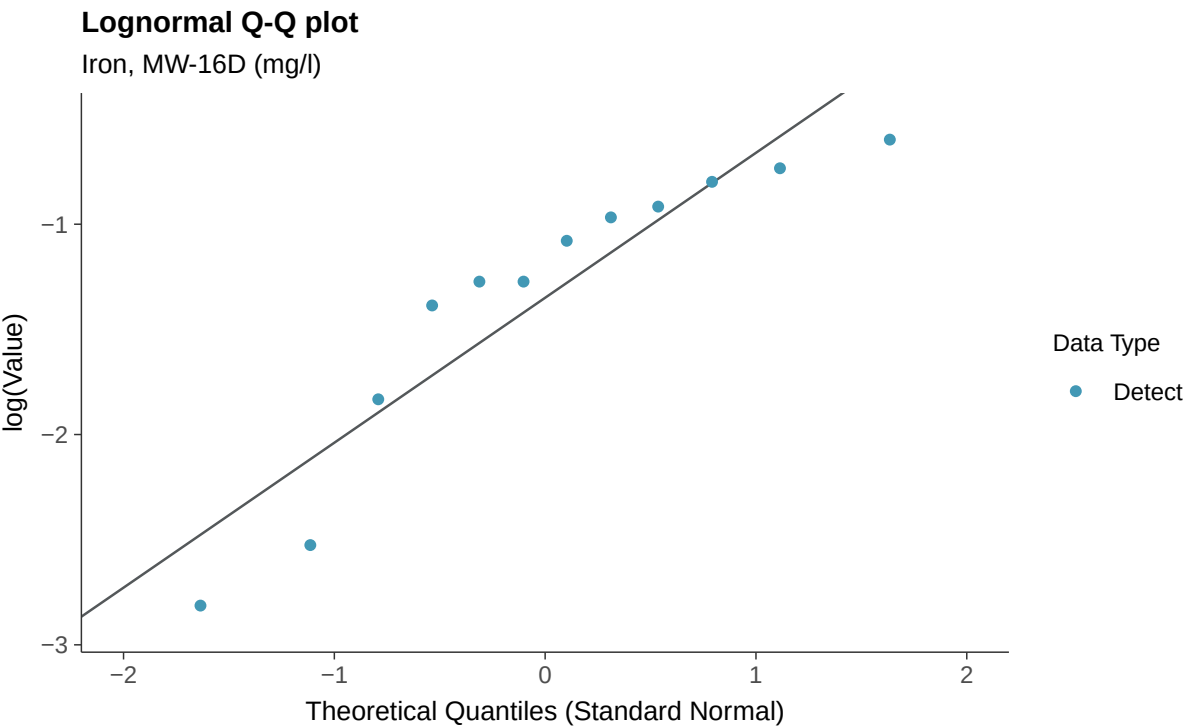
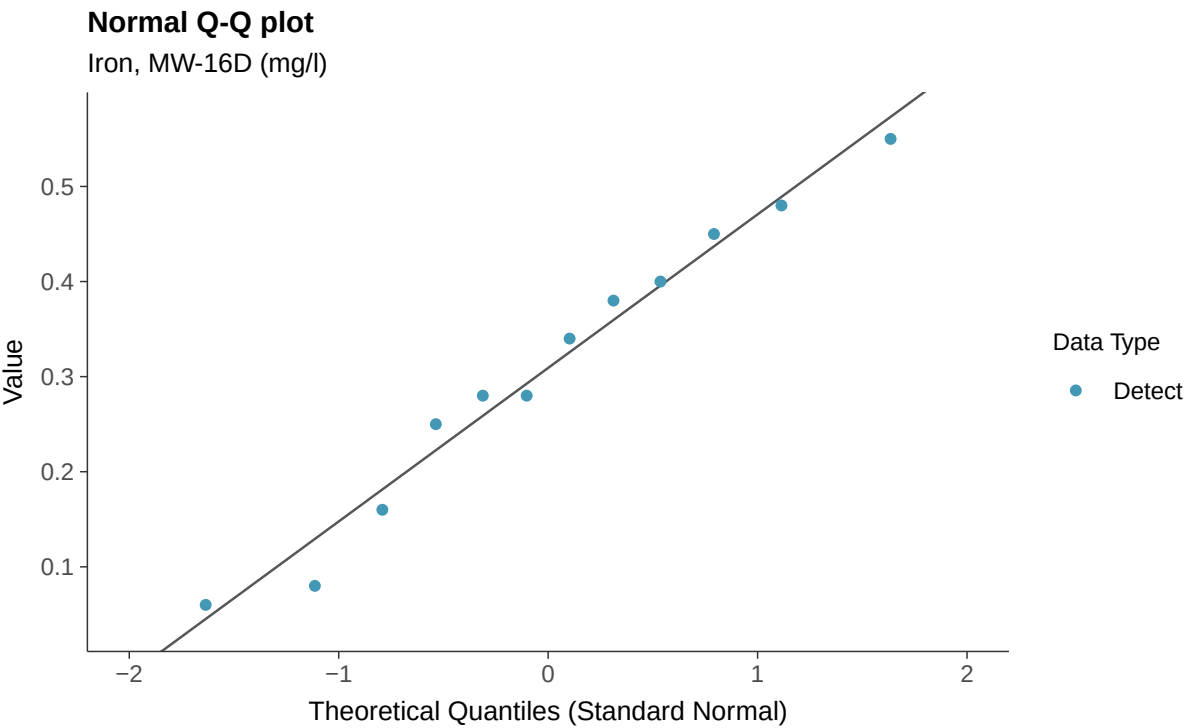


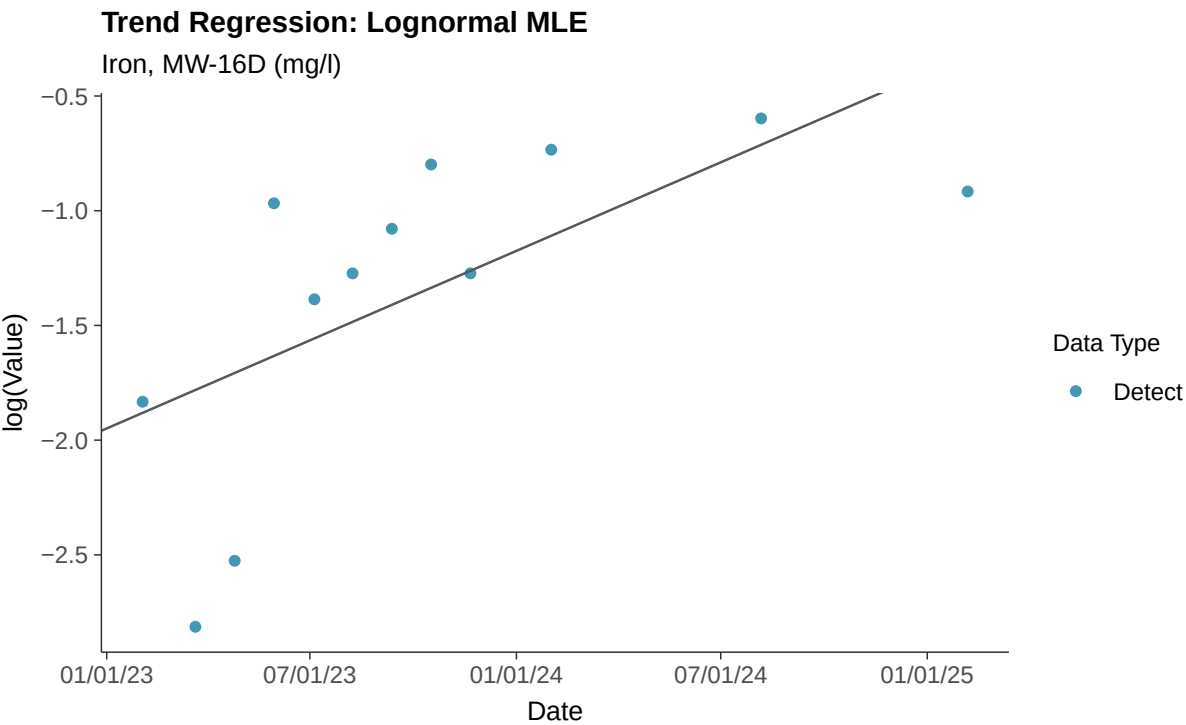
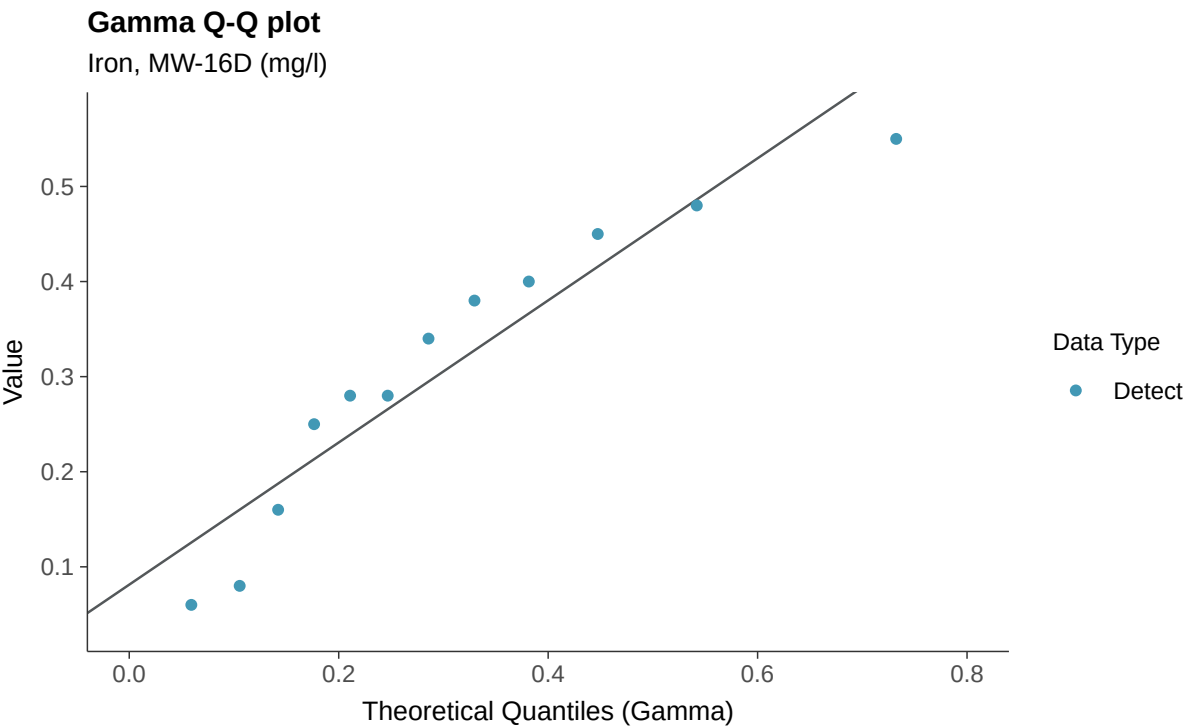
Part 115: Iron, MW-16D

ID: 13_5_114





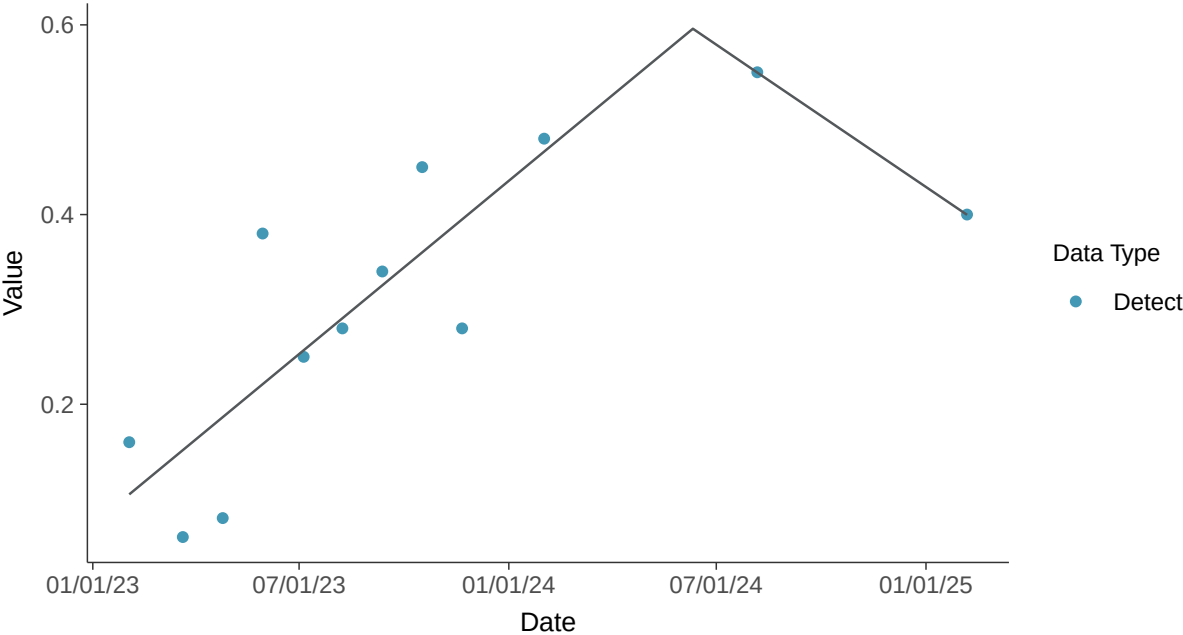






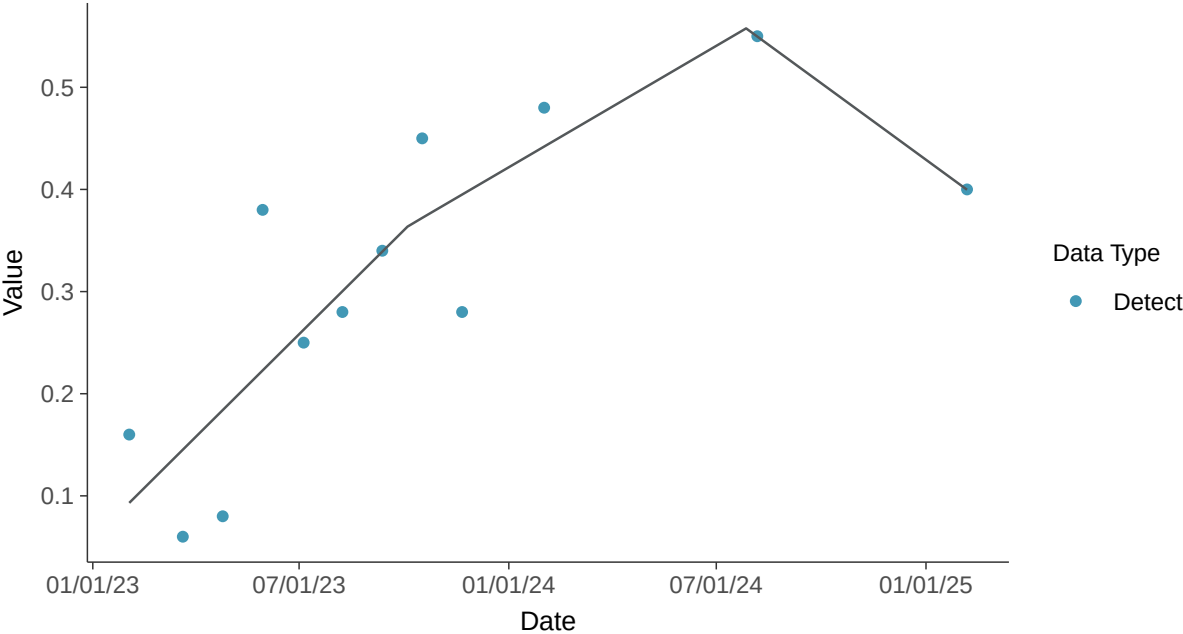
Trend Regression: Piecewise Linear-Linear

Iron, MW-16D (mg/l)



Trend Regression: Piecewise Linear-Linear-Linear

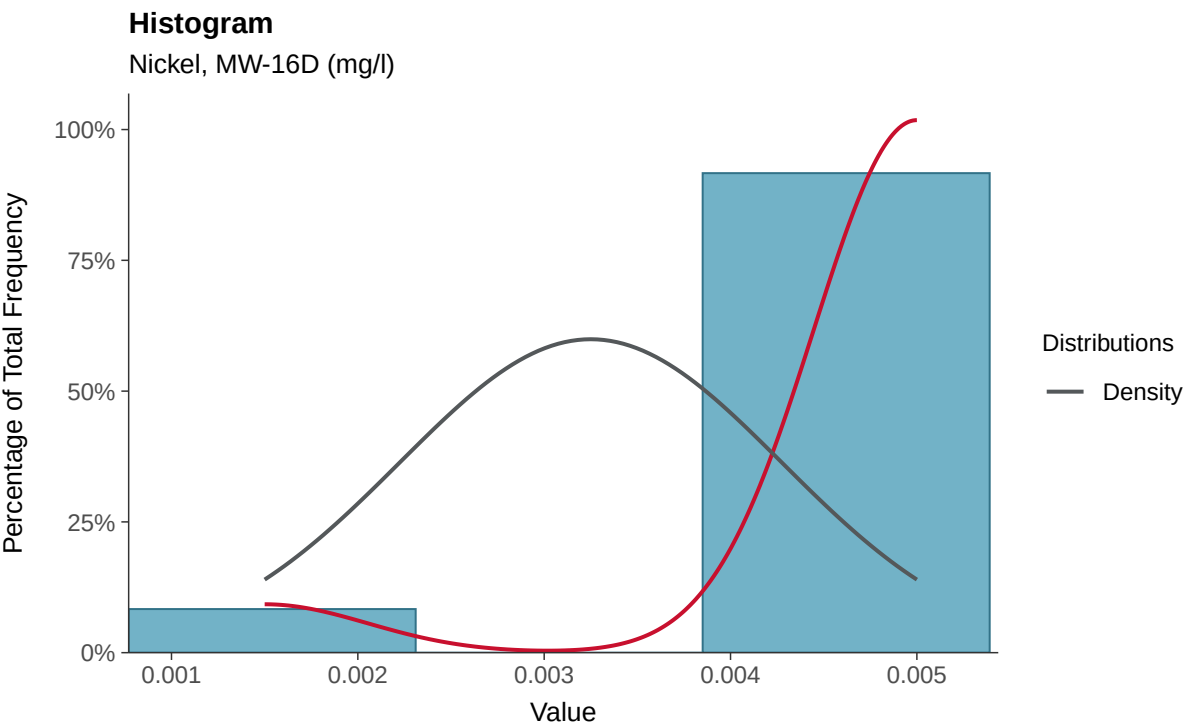
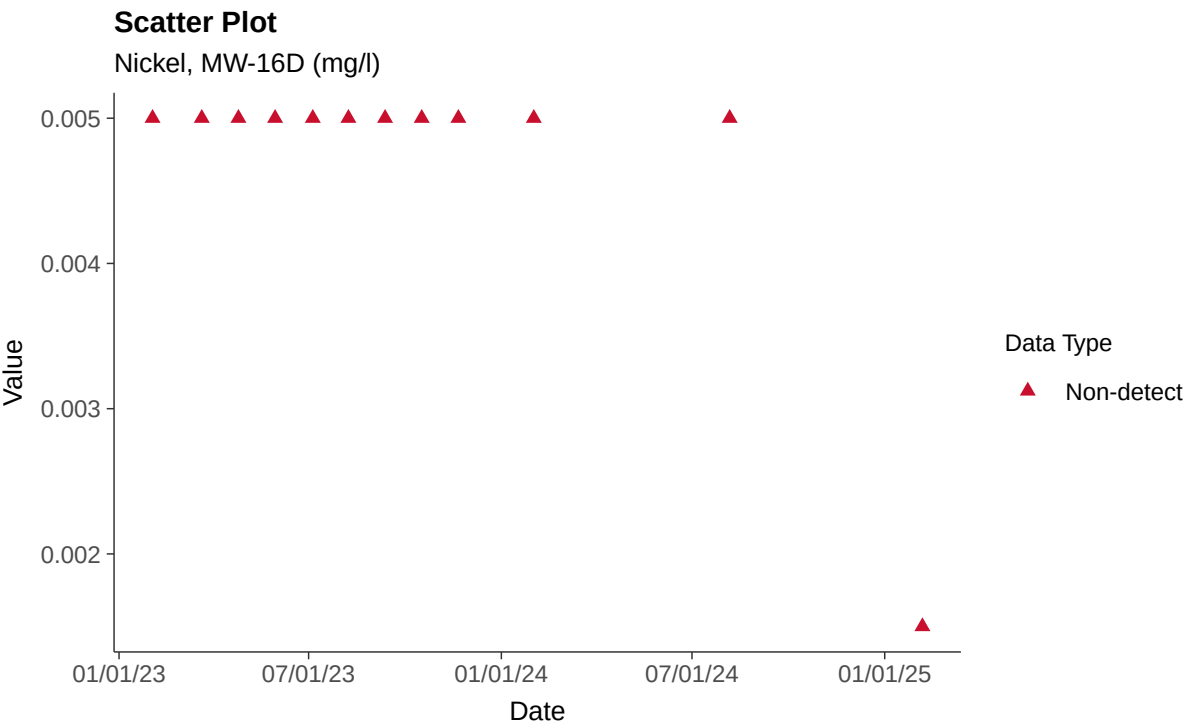
Iron, MW-16D (mg/l)

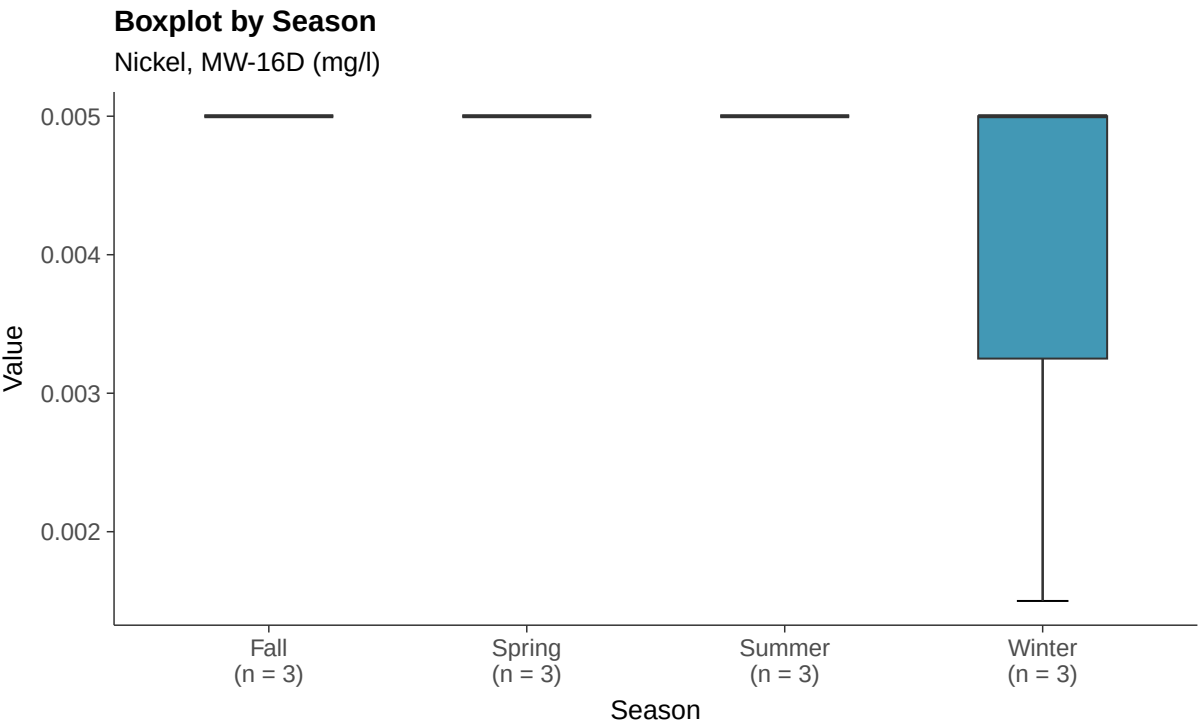
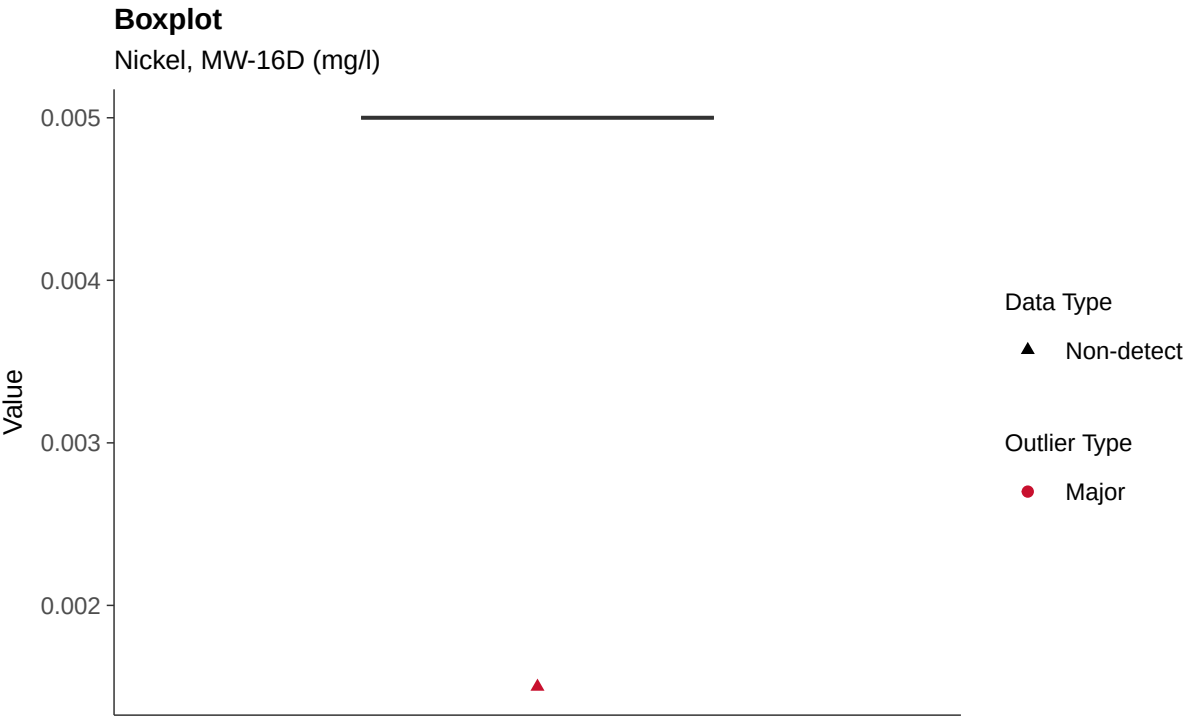




Part 115: Nickel, MW-16D

ID: 13_5_119

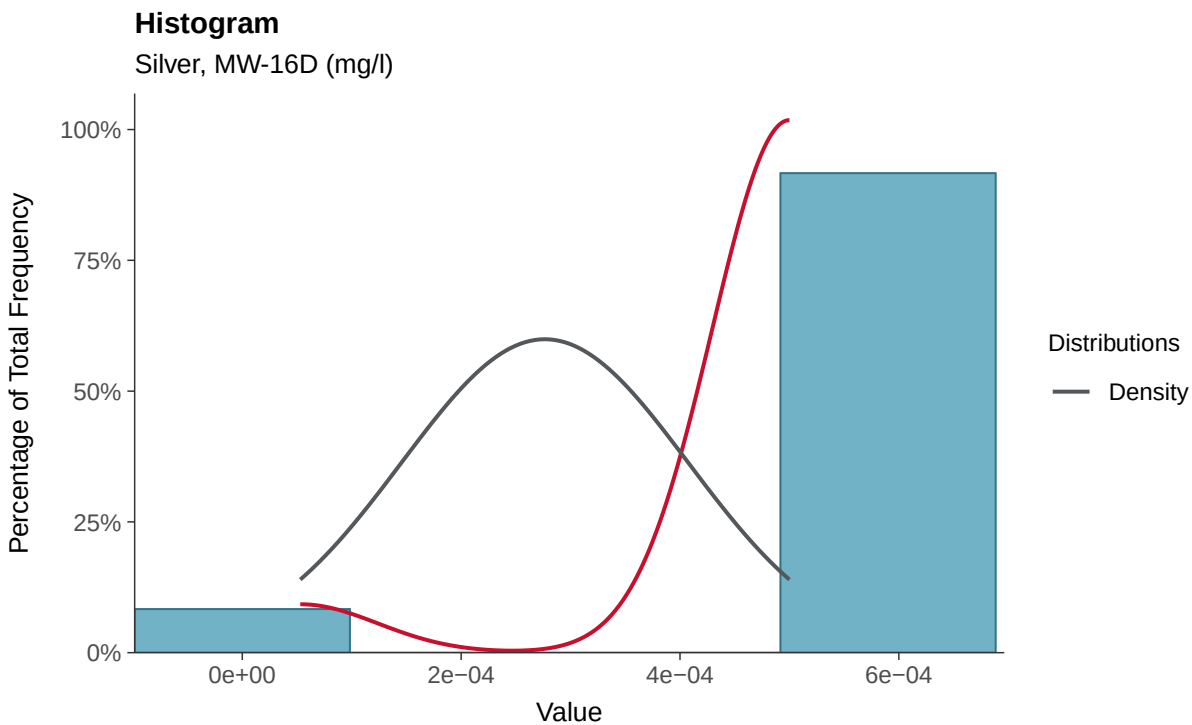
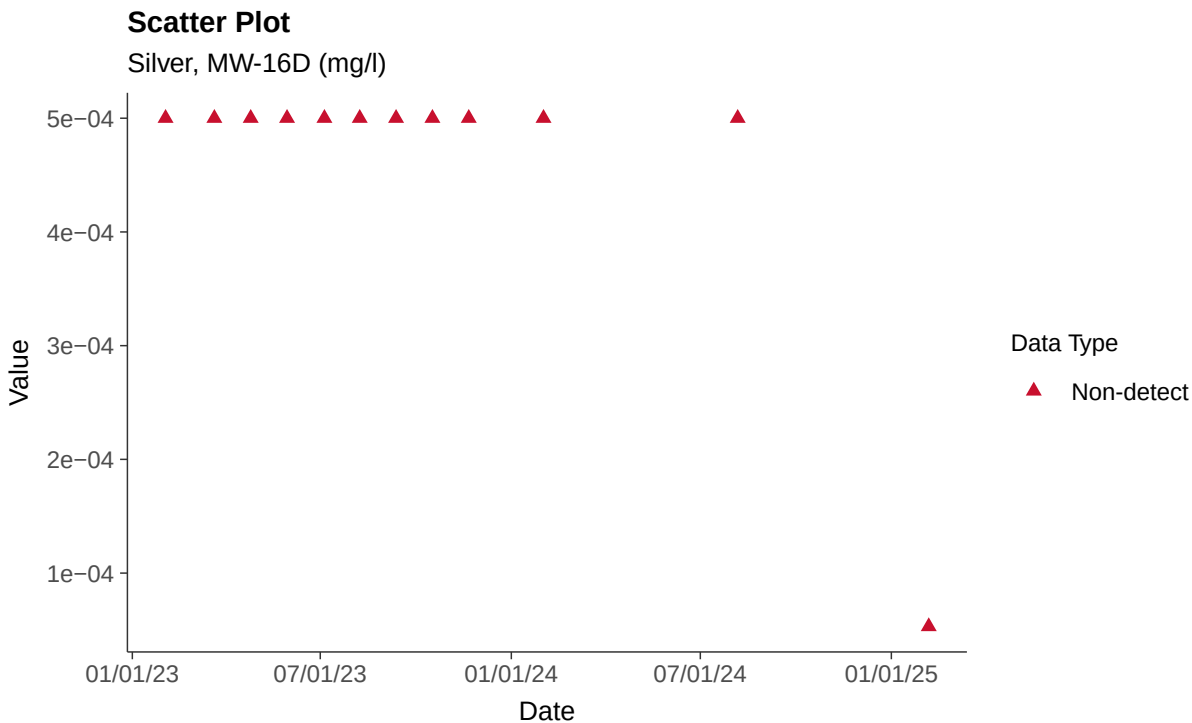


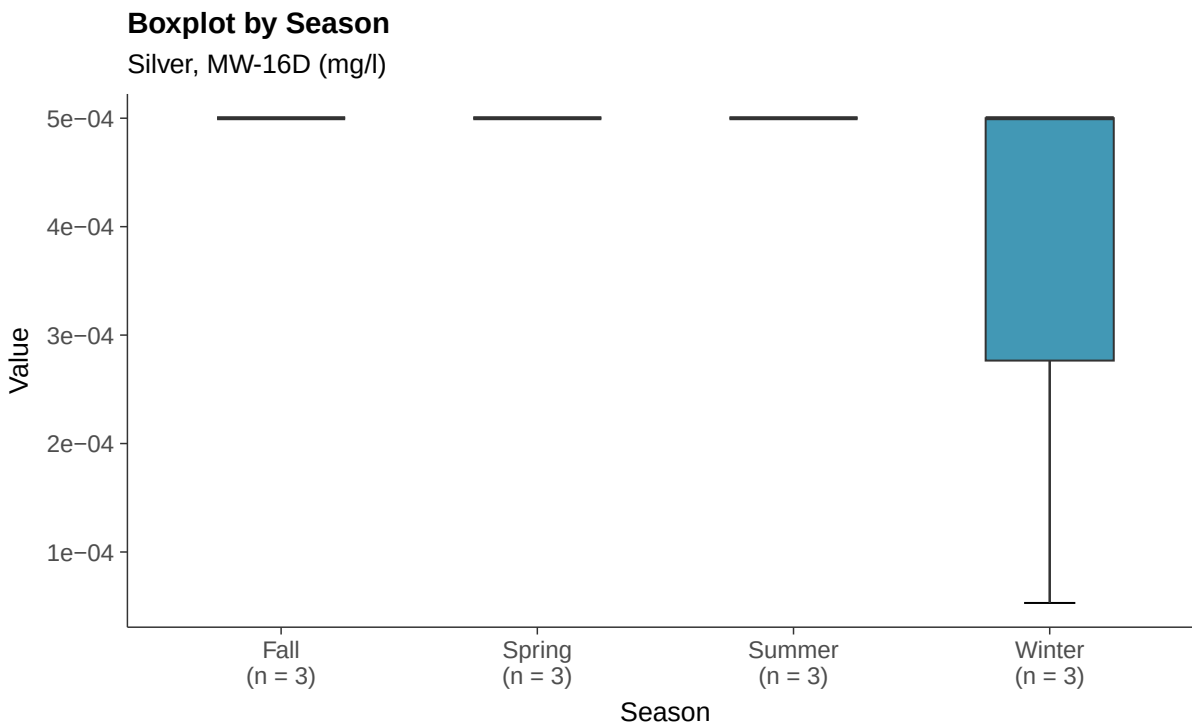
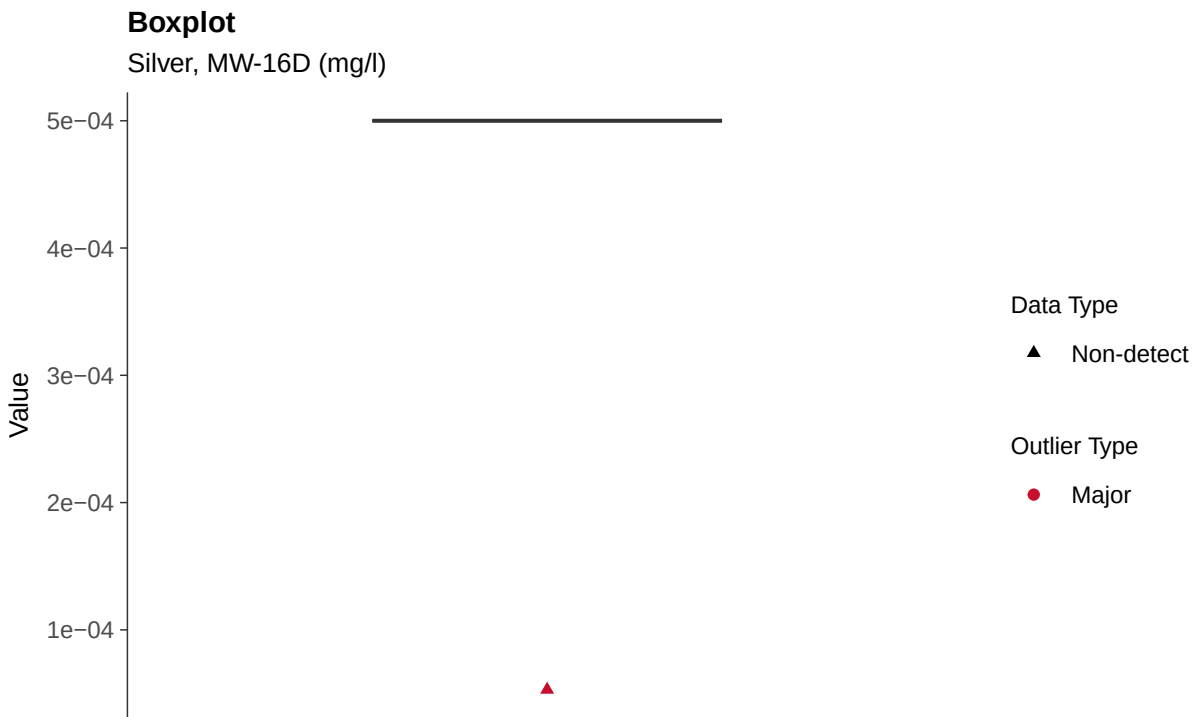




Part 115: Silver, MW-16D

ID: 13_5_123

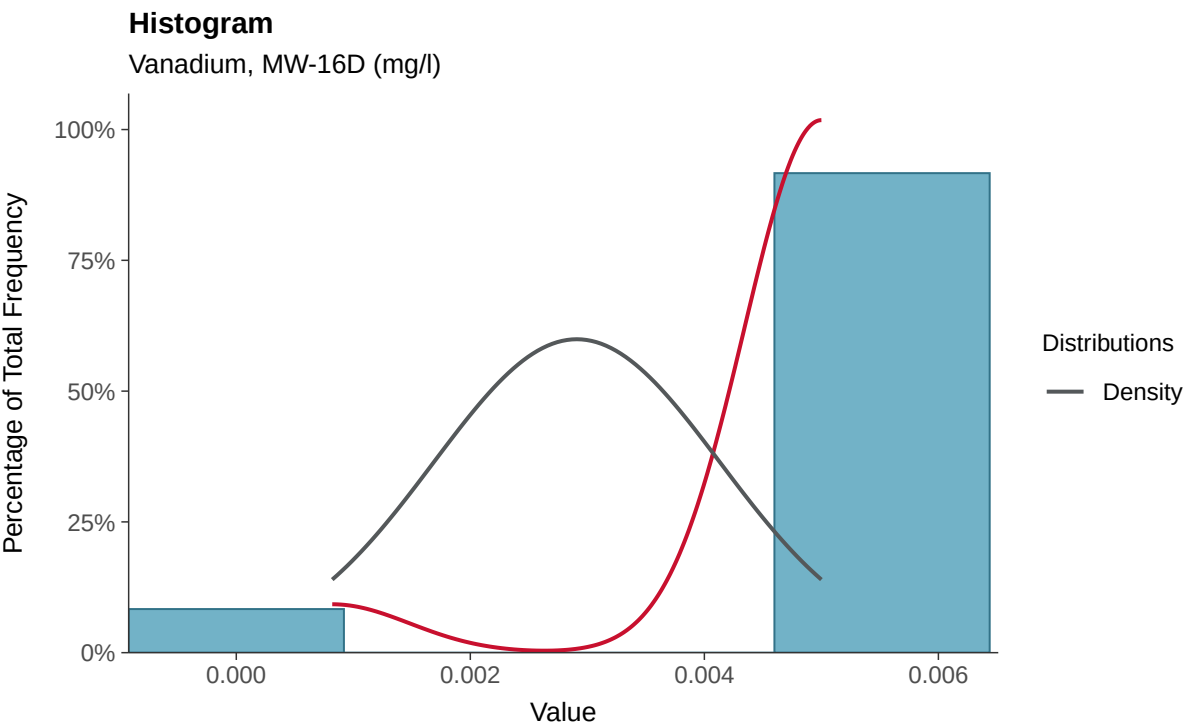
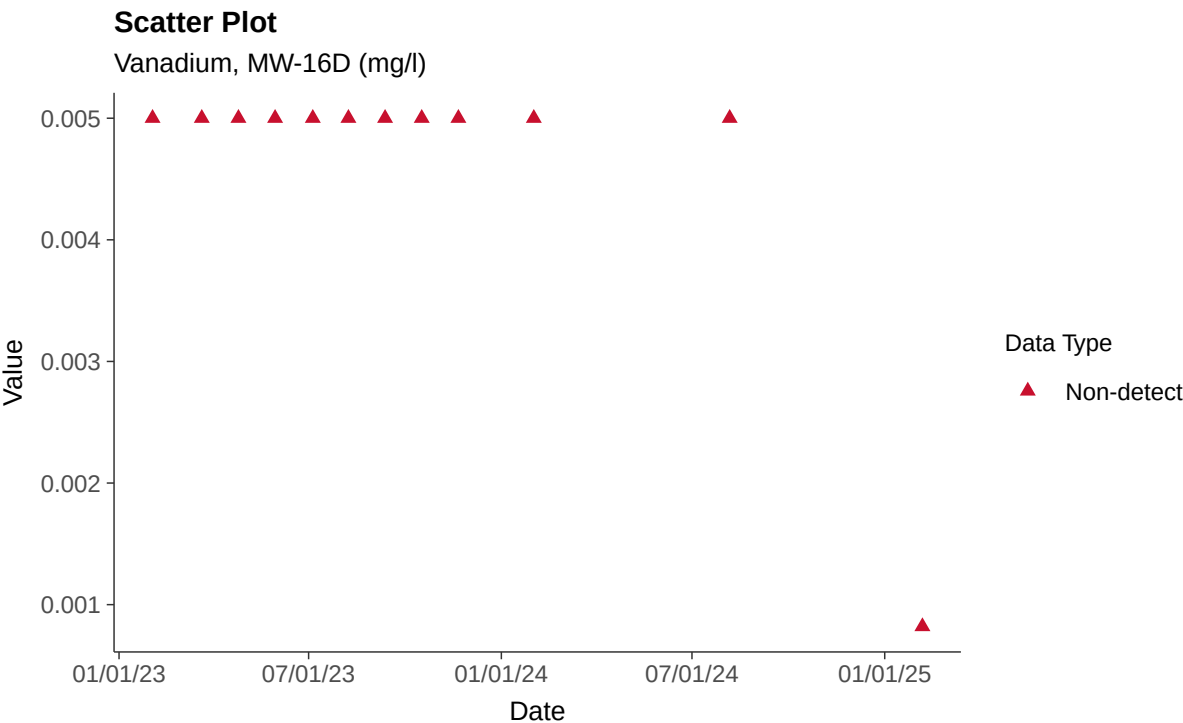


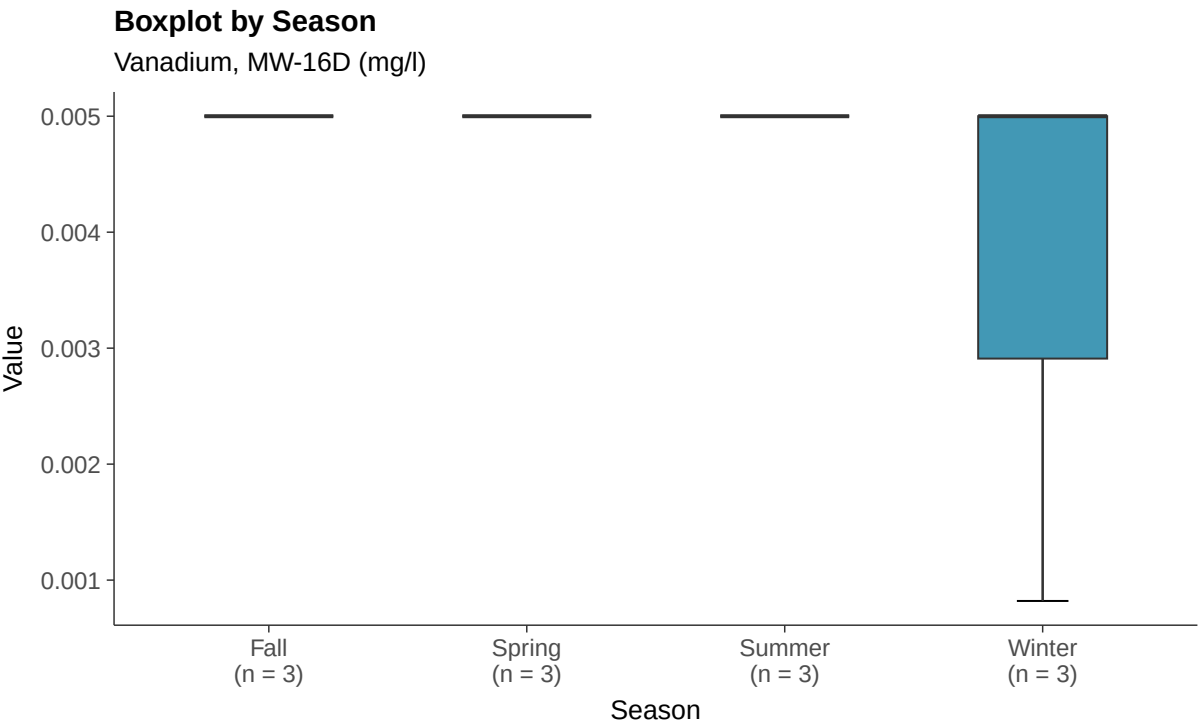
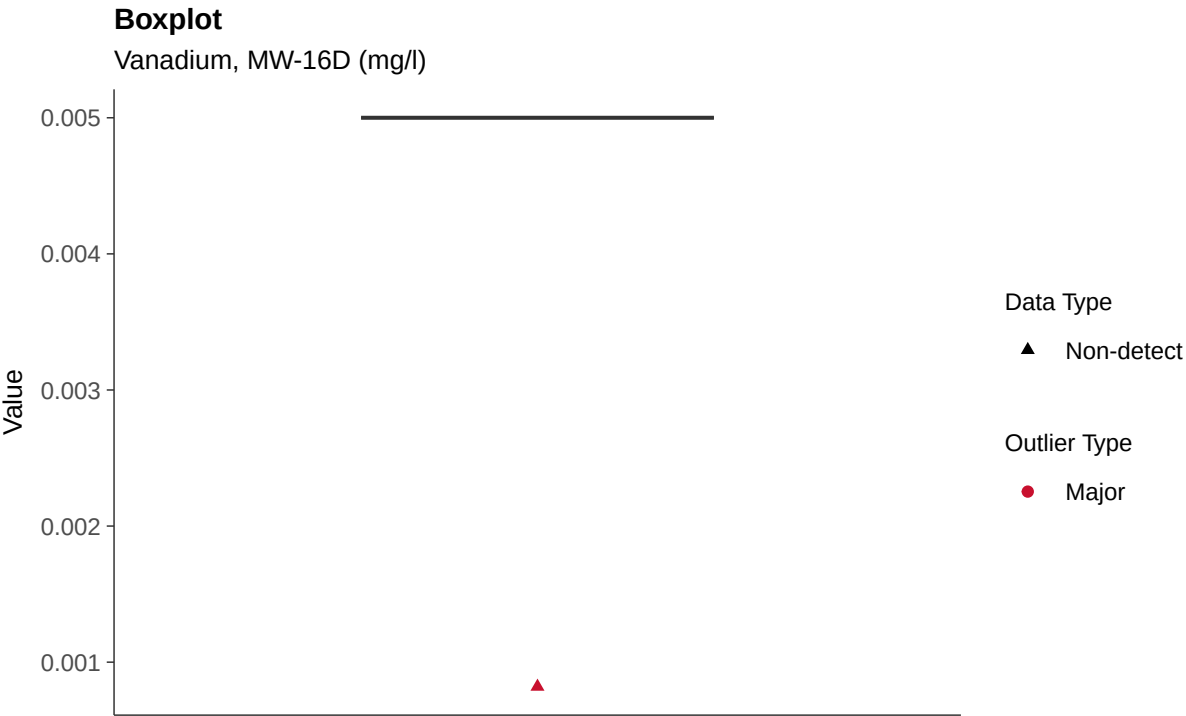




Part 115: Vanadium, MW-16D

ID: 13_5_128

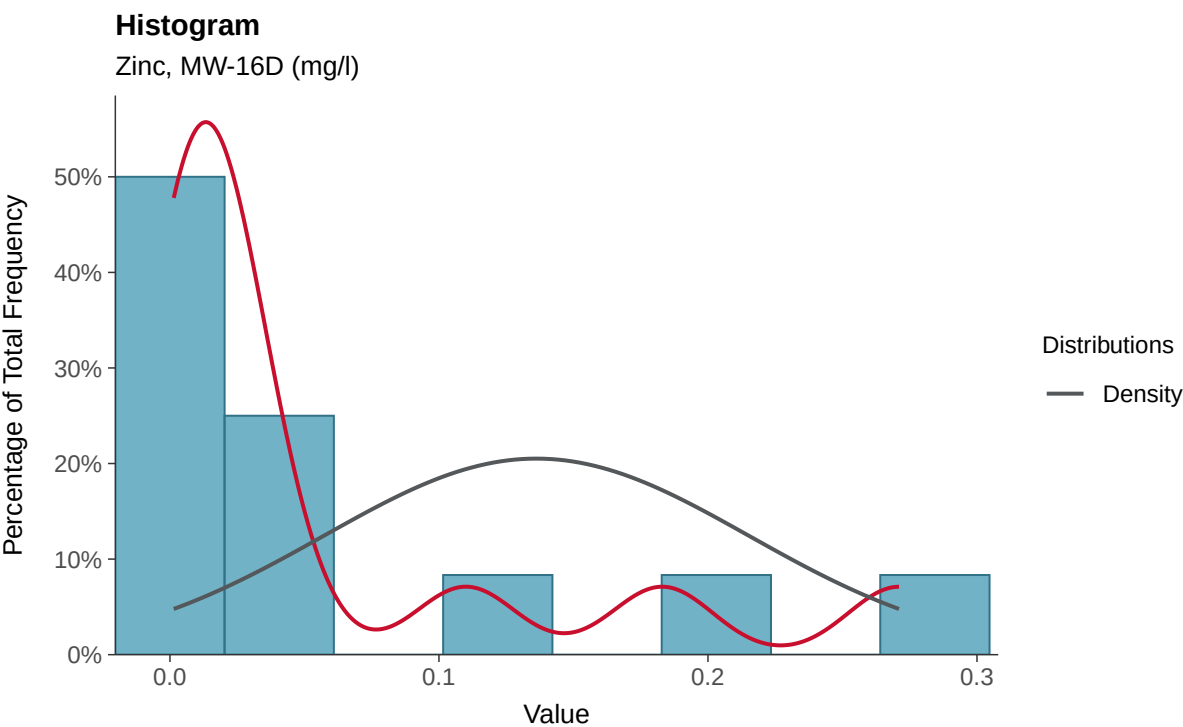
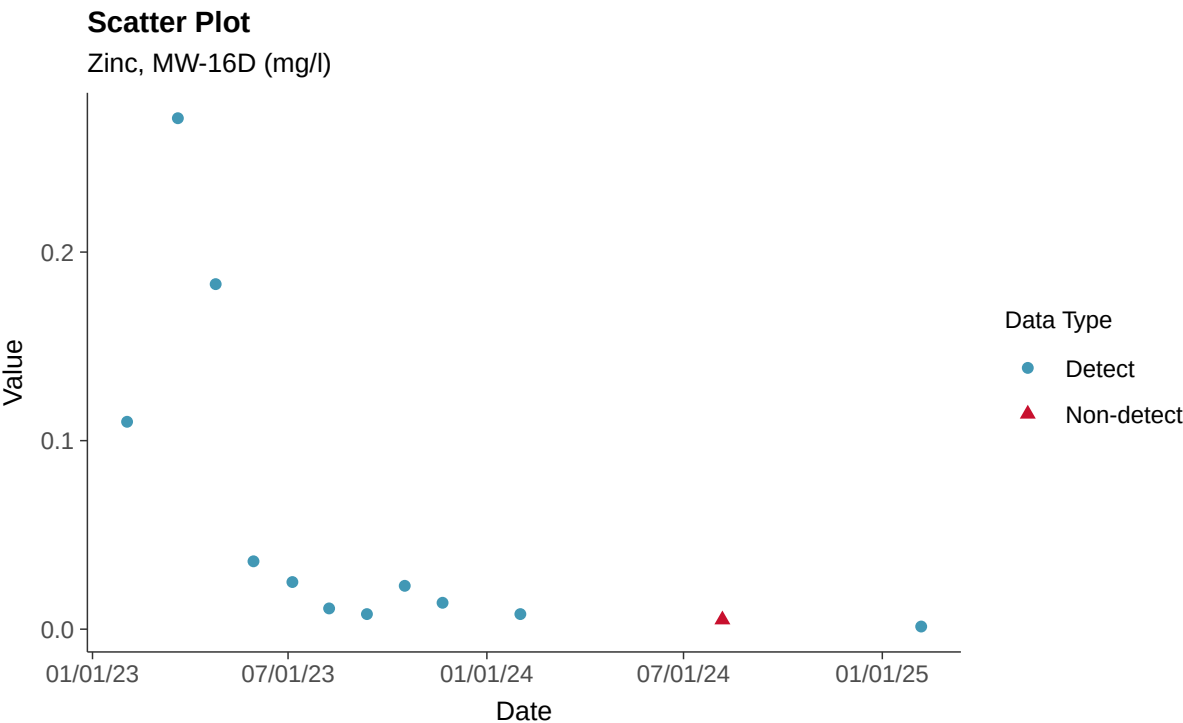


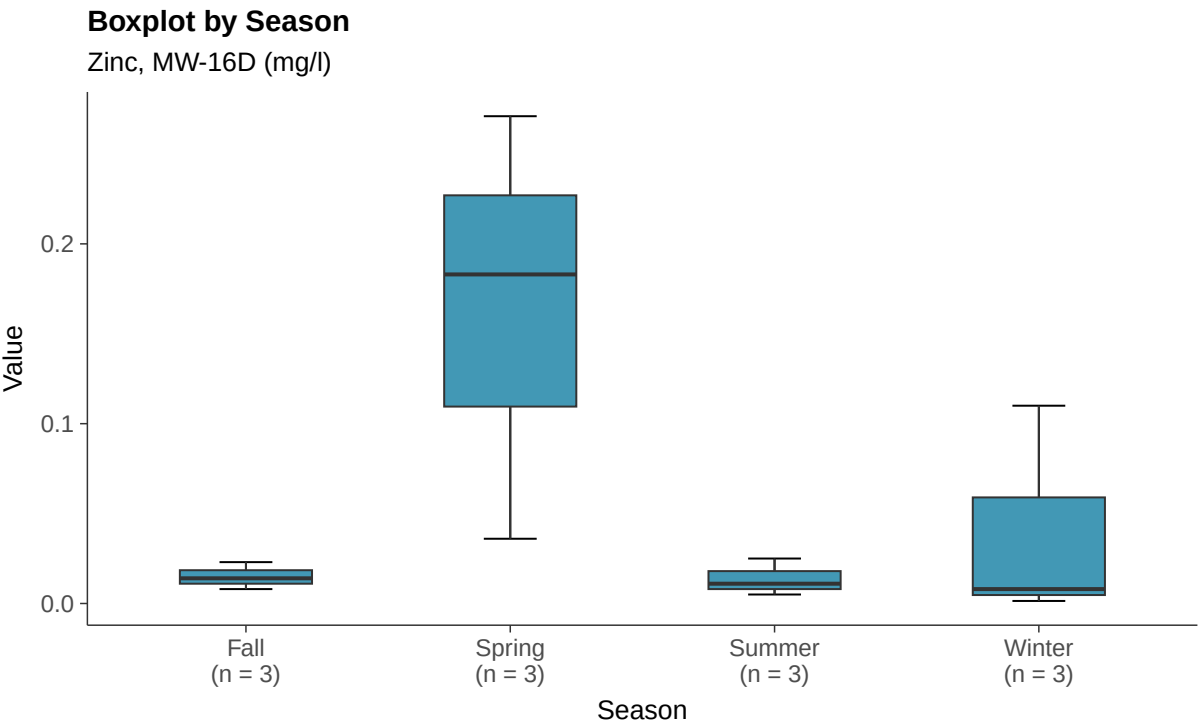
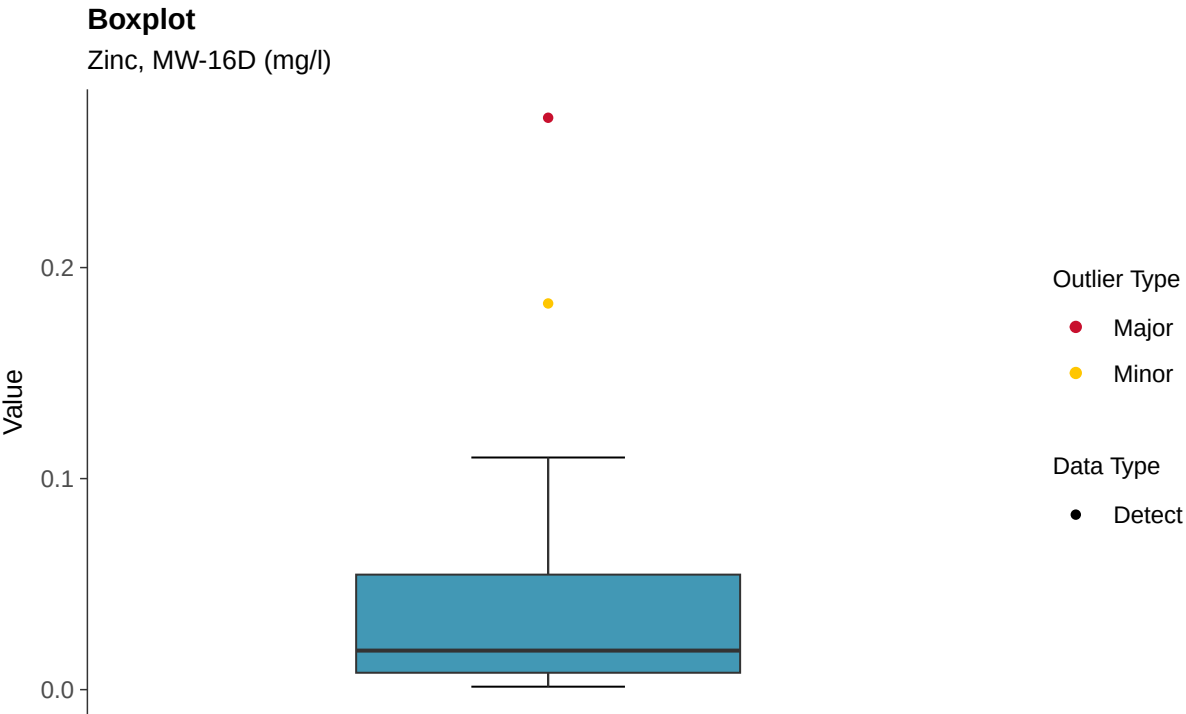




Part 115: Zinc, MW-16D

ID: 13_5_129

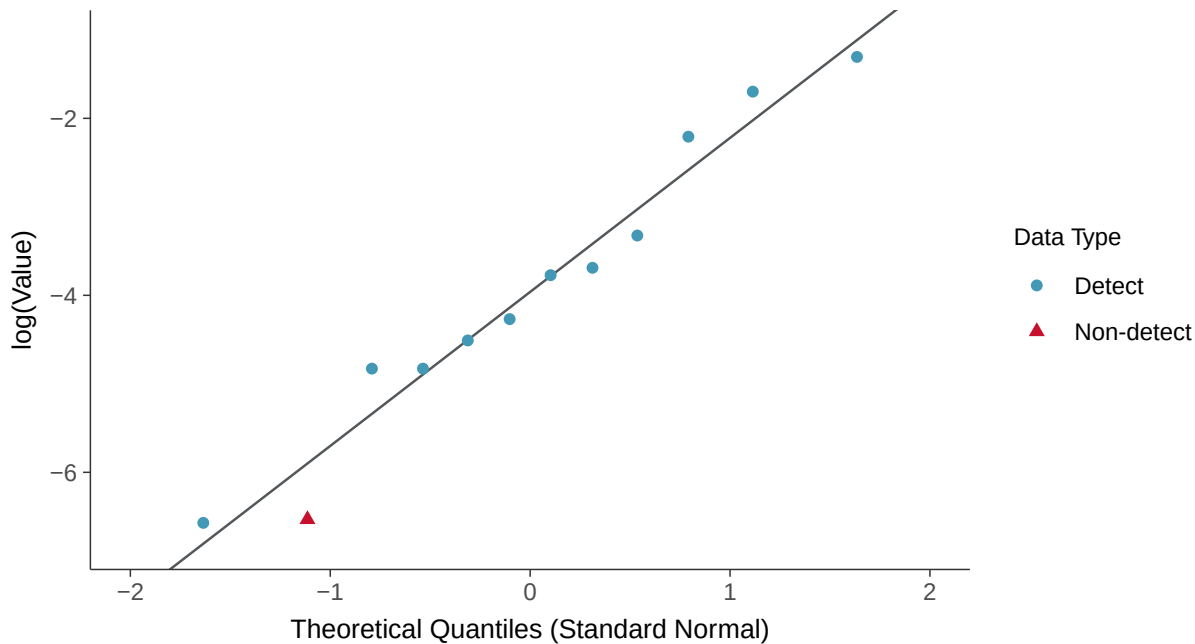






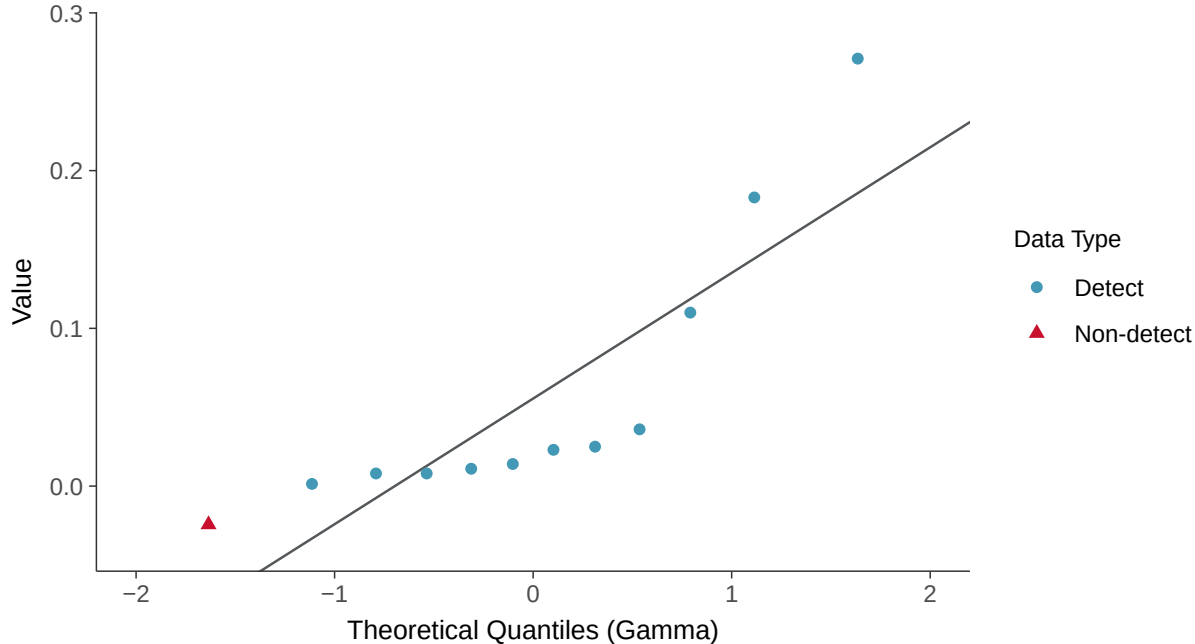
Lognormal Q-Q plot using ROS Imputed Estimates

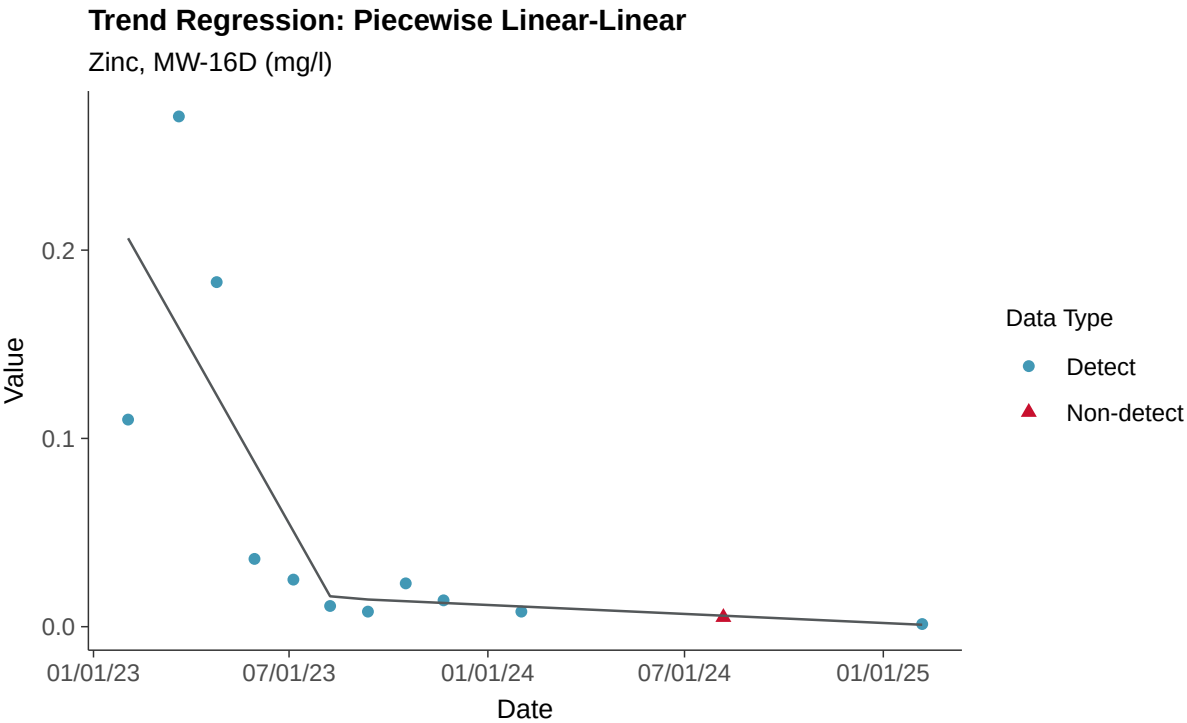
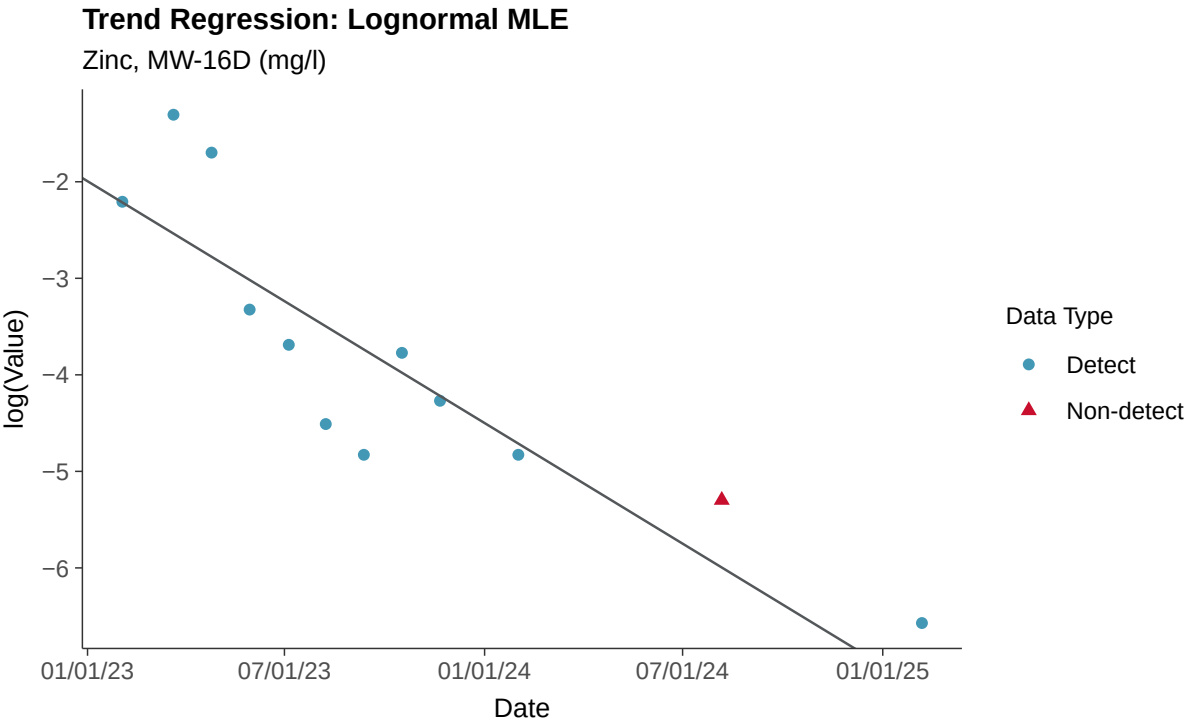
Zinc, MW-16D (mg/l)



Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-16D (mg/l)

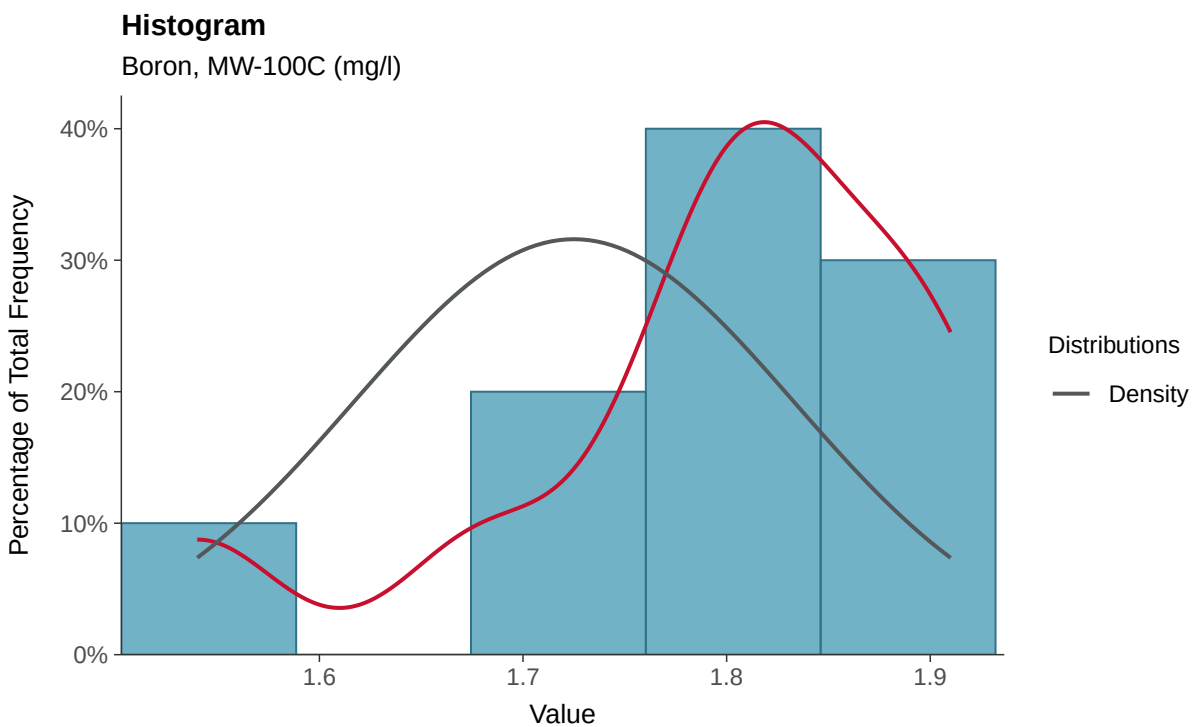
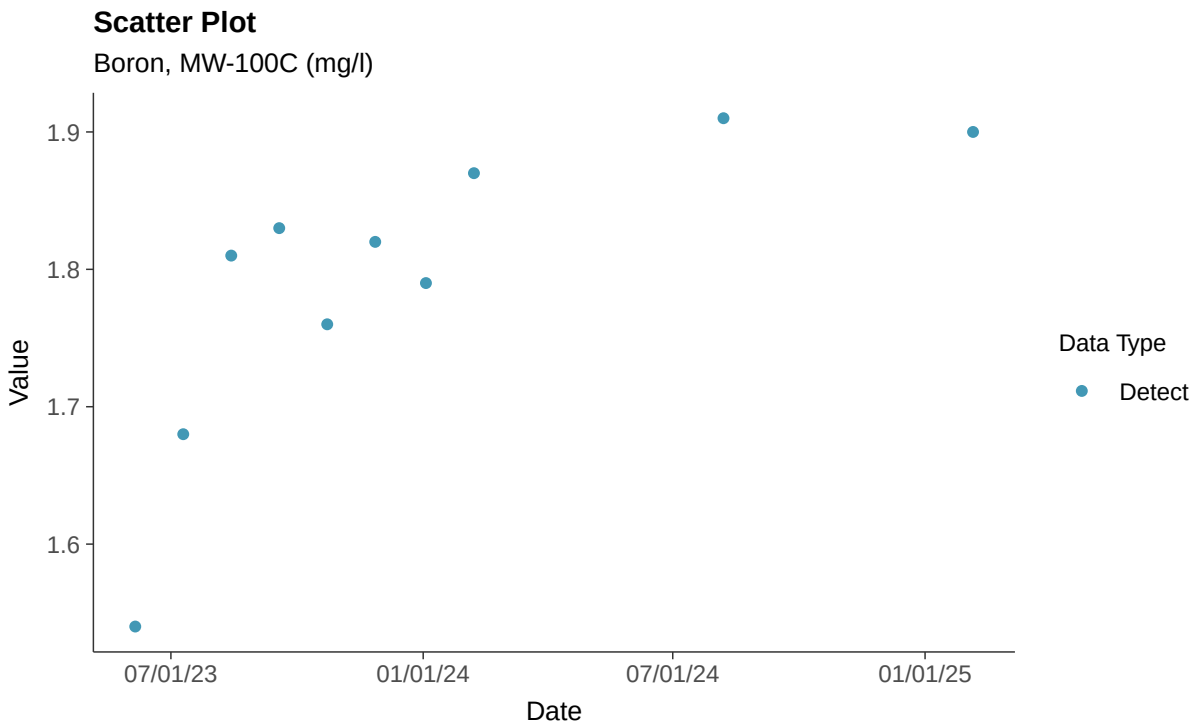


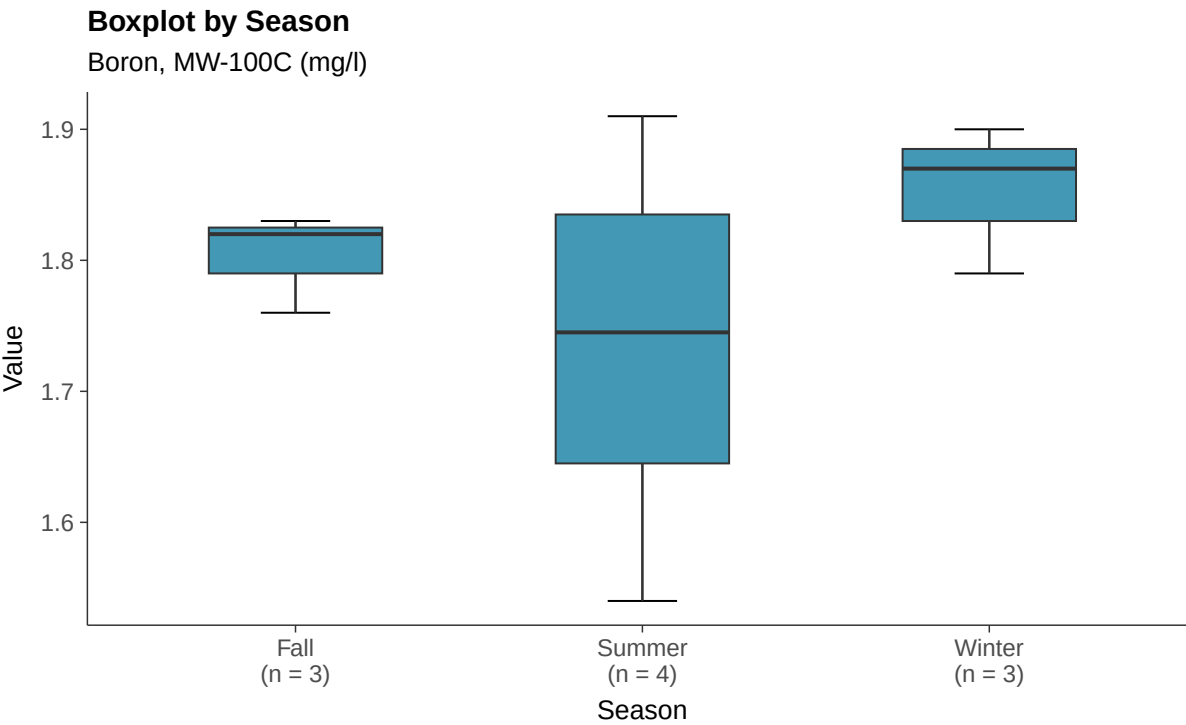
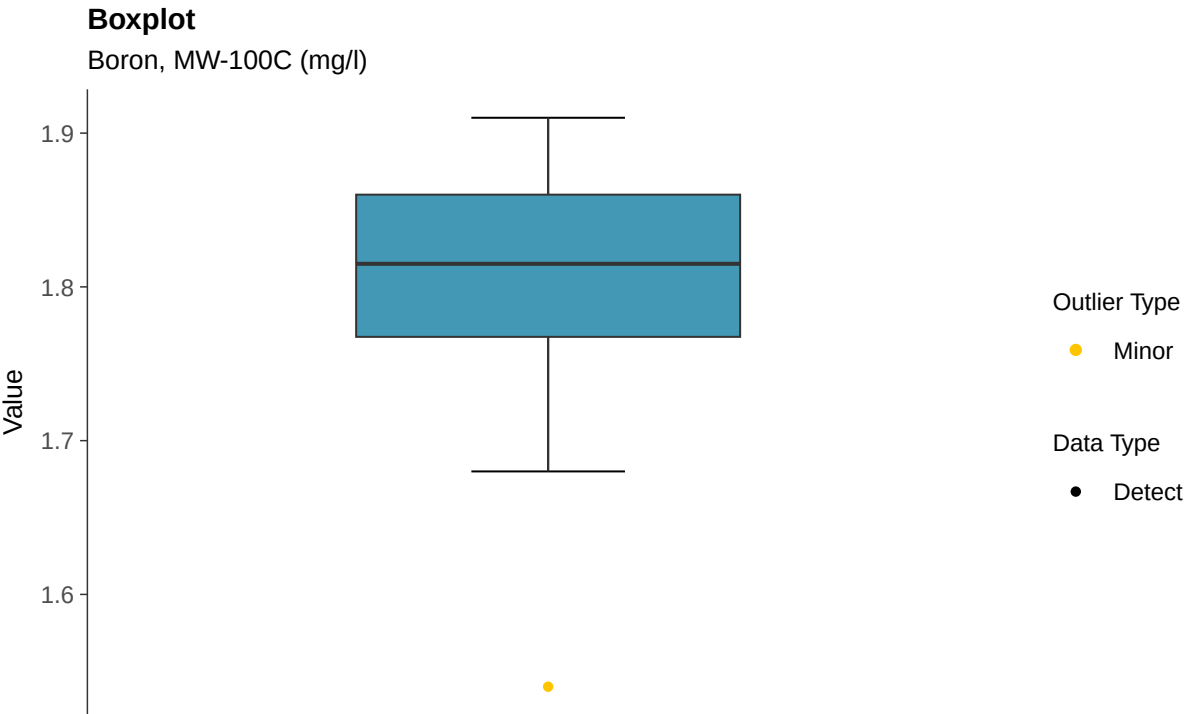


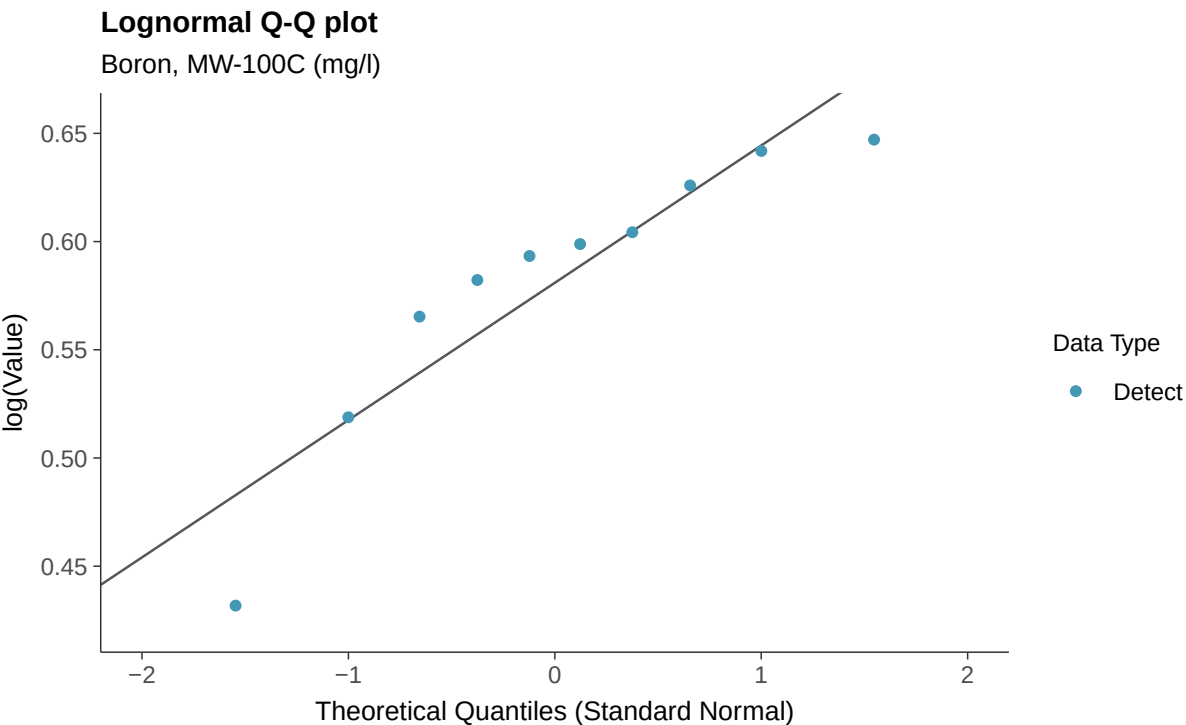
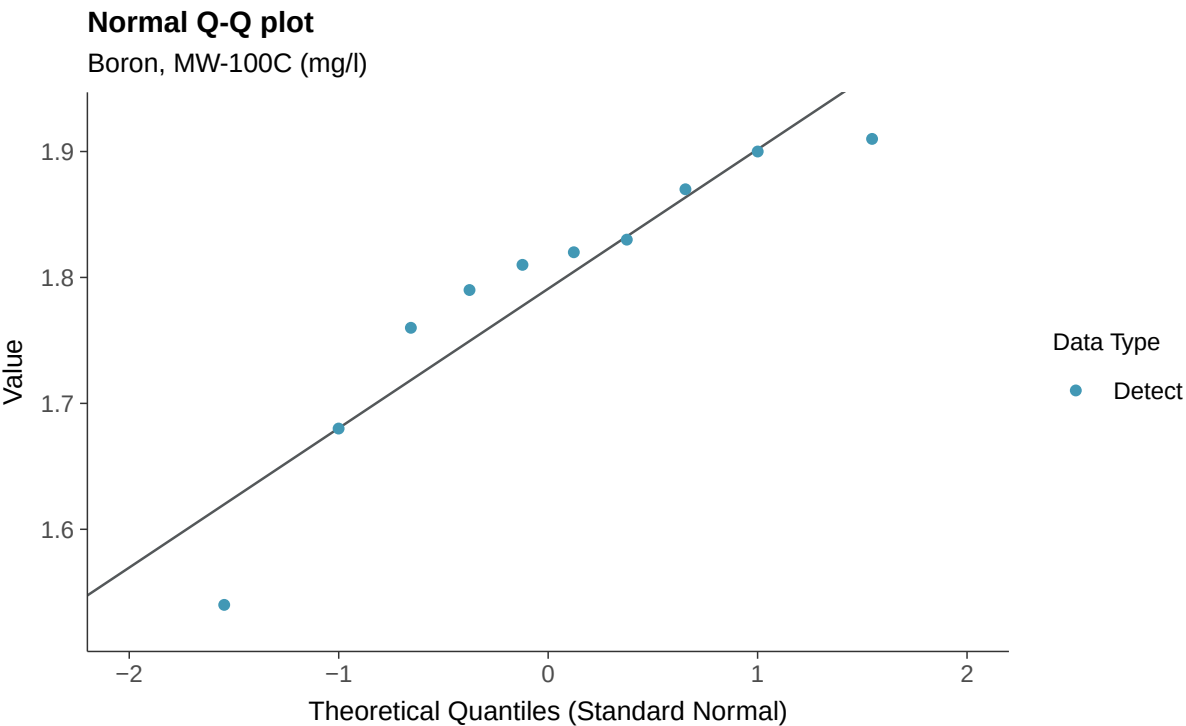


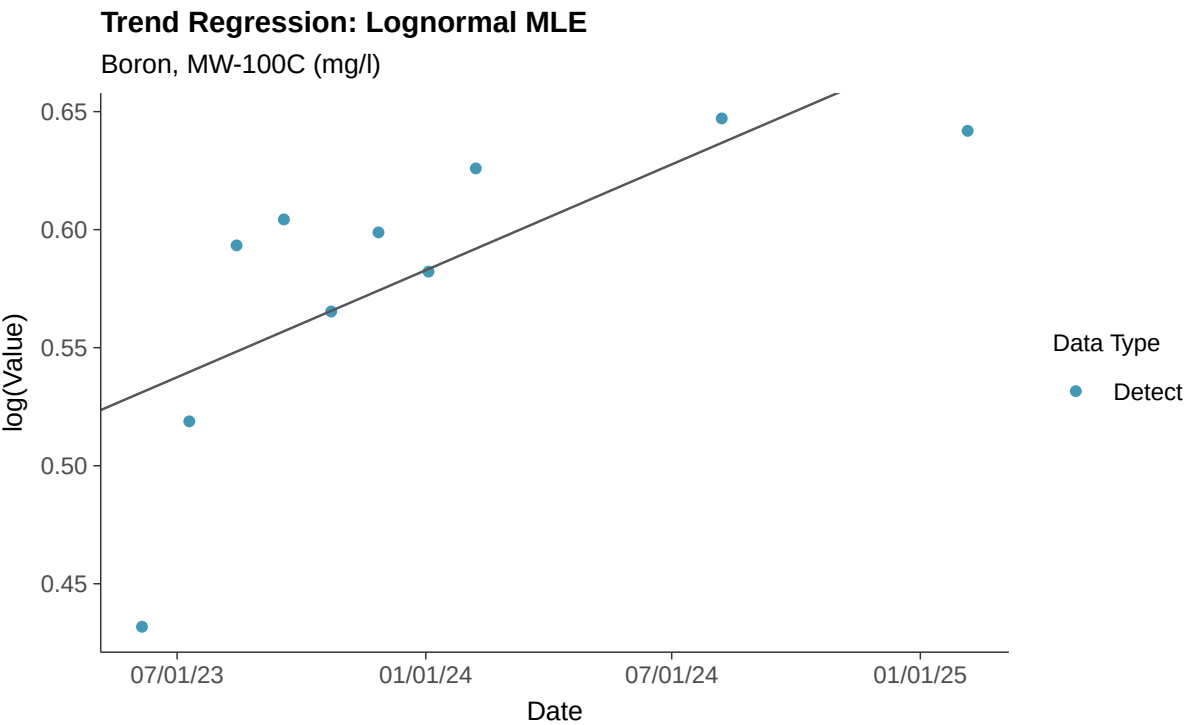
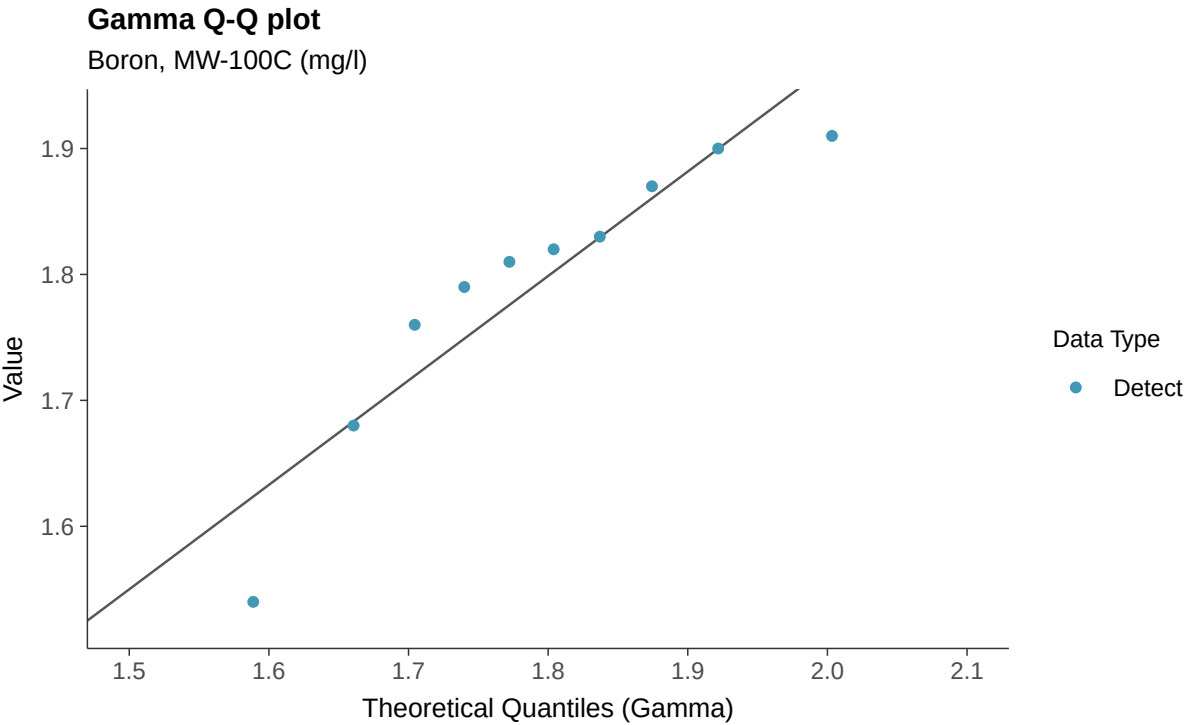
Appendix III: Boron, MW-100C

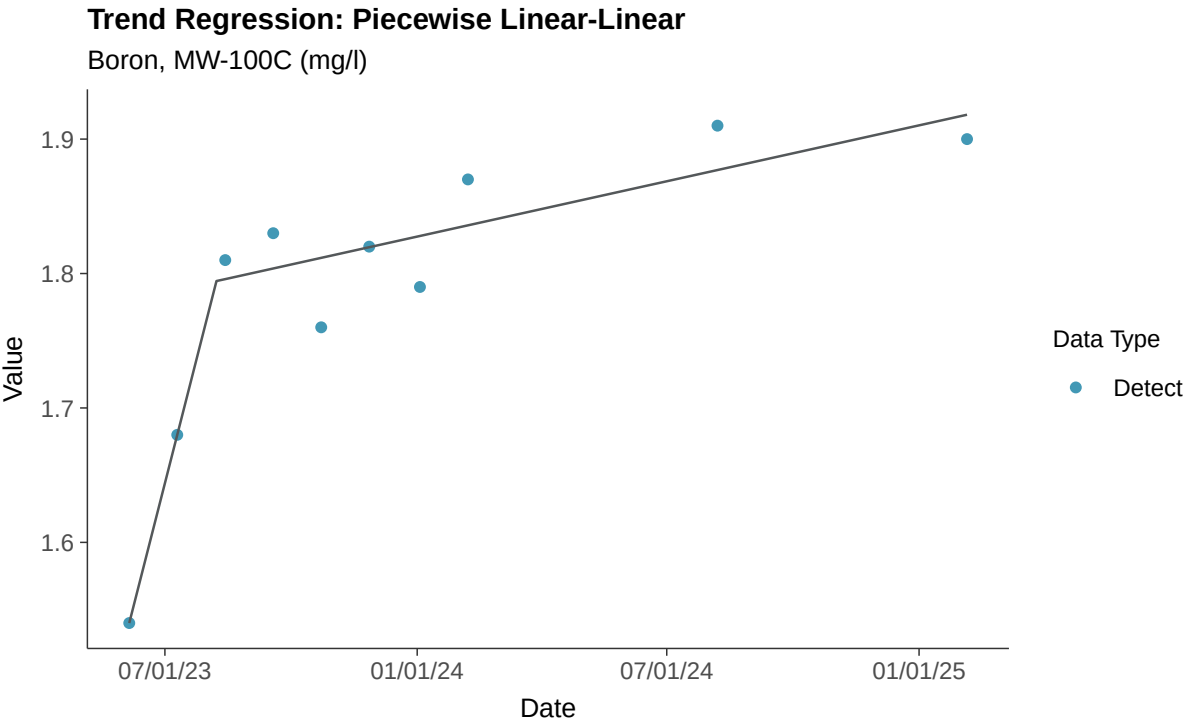
ID: 18_2_105







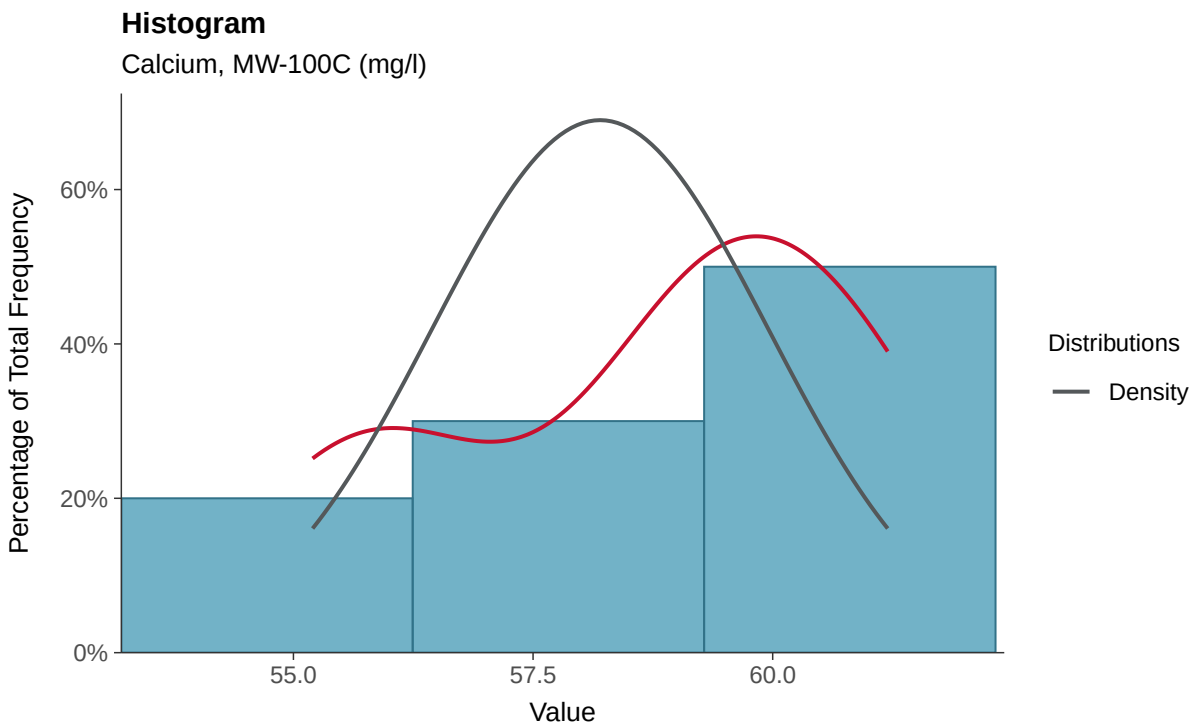
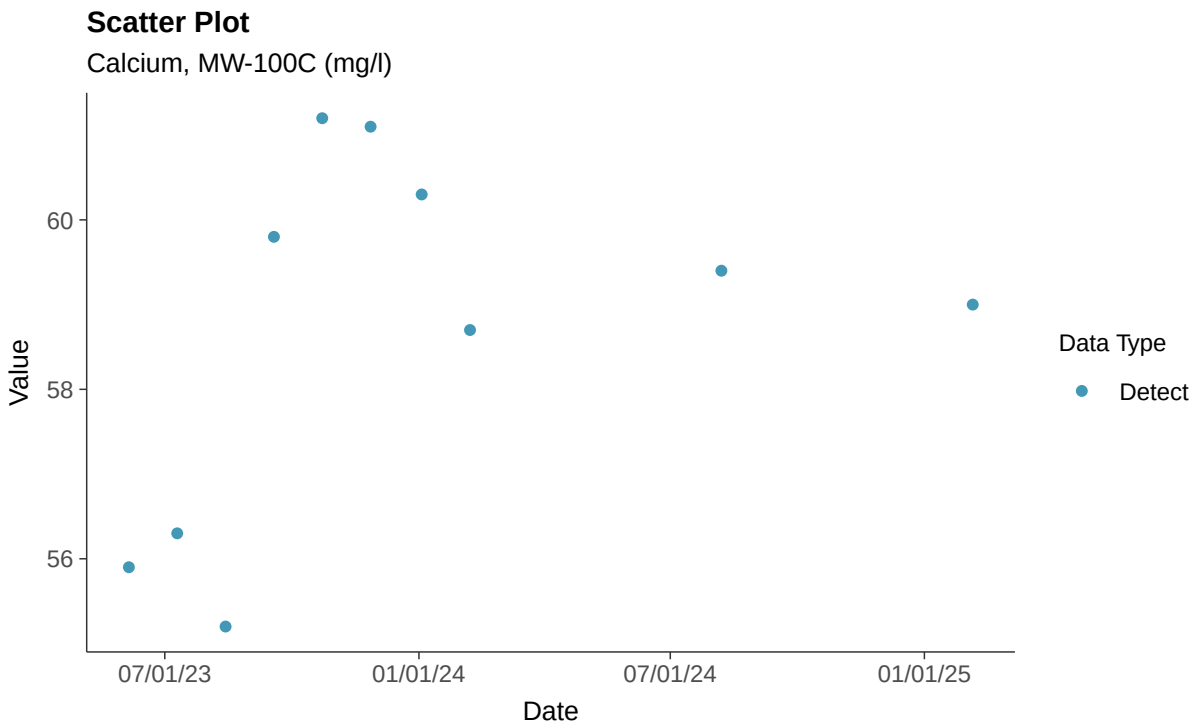


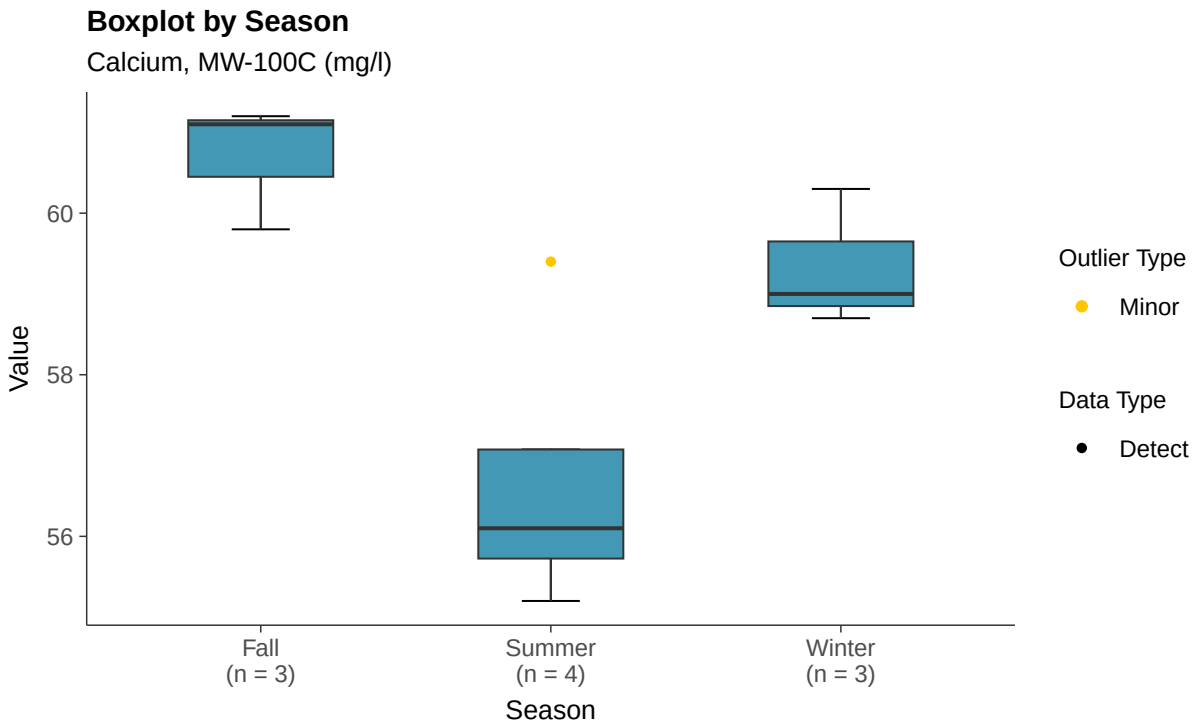
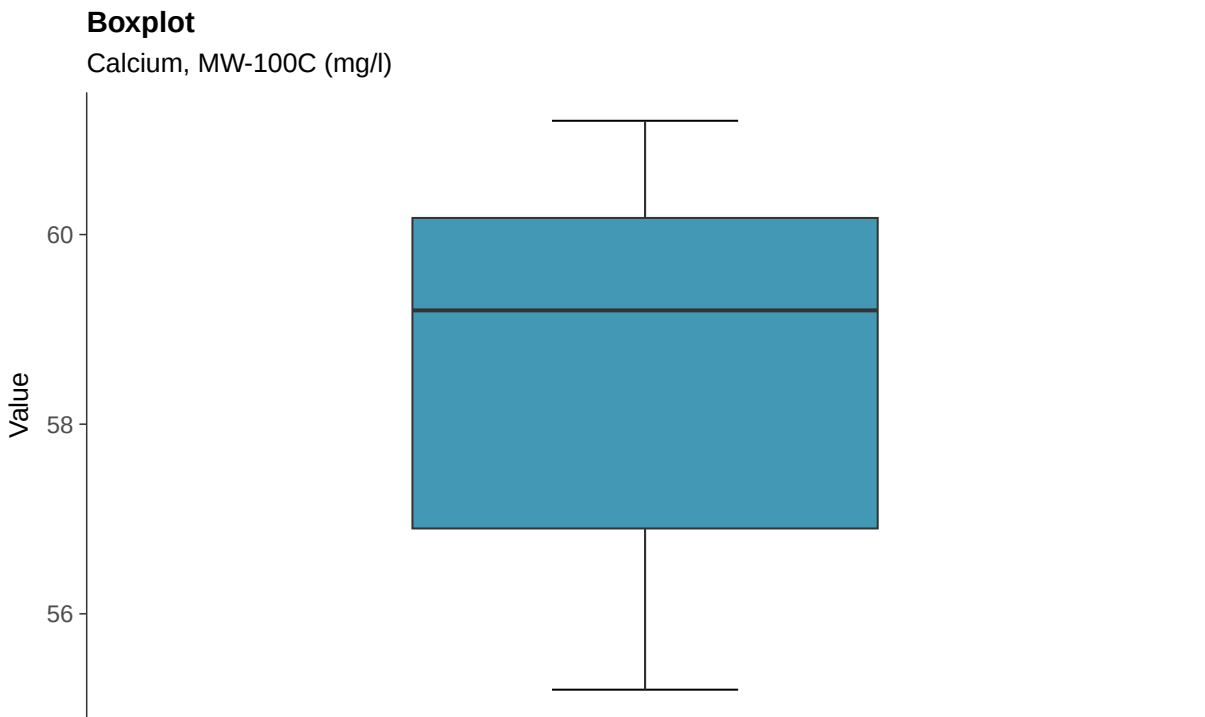


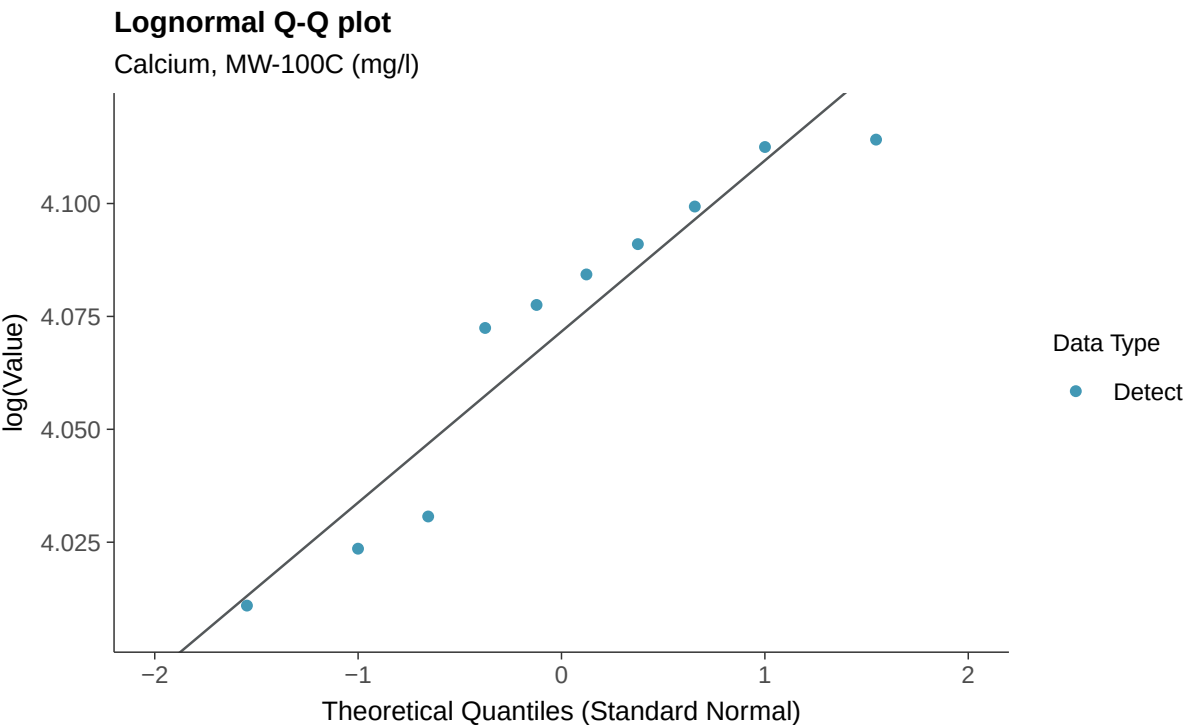
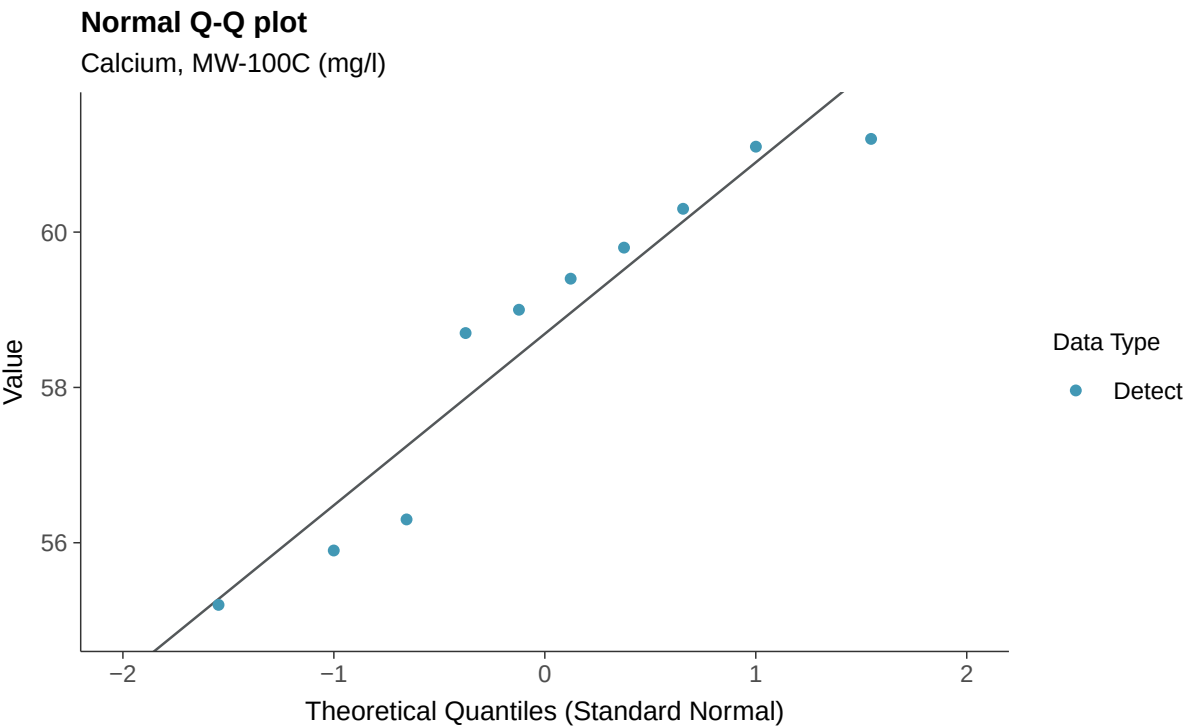


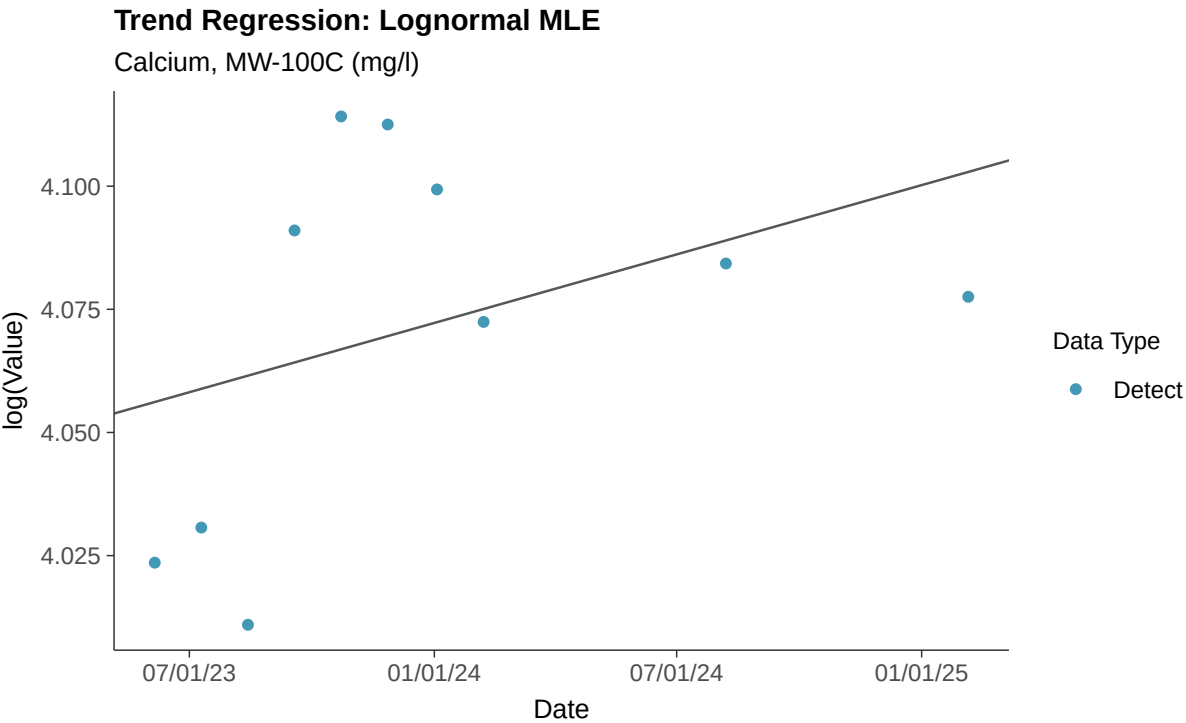
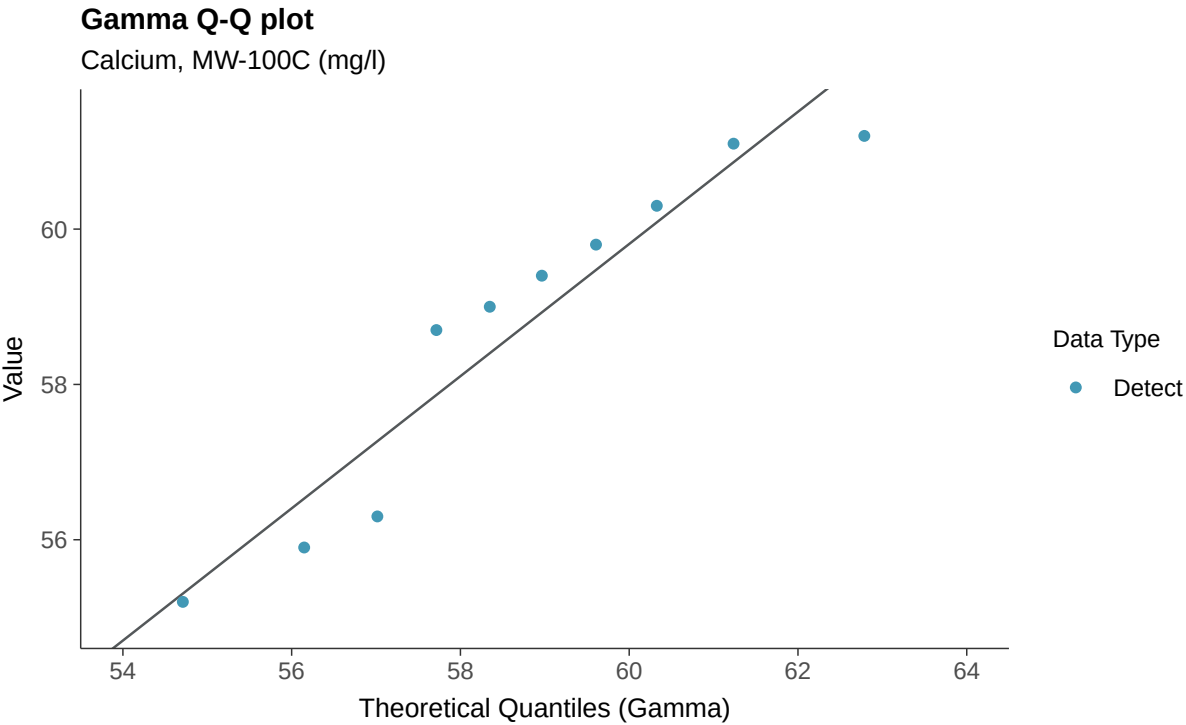
Appendix III: Calcium, MW-100C

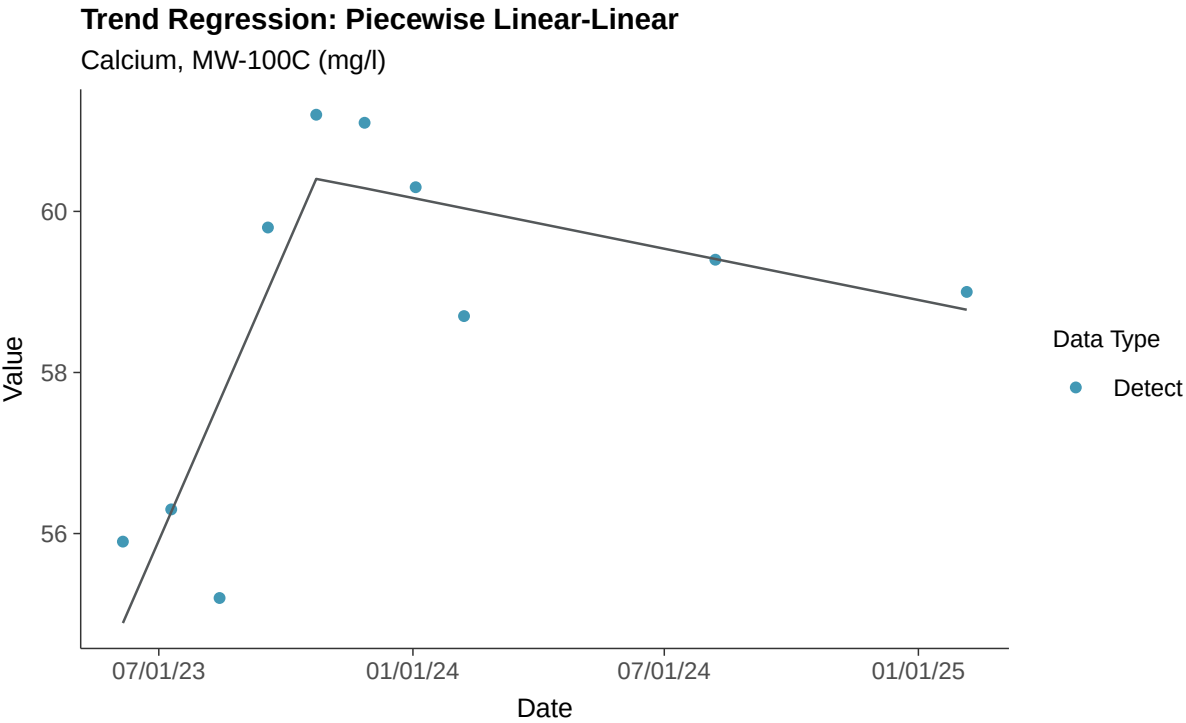
ID: 18_2_107







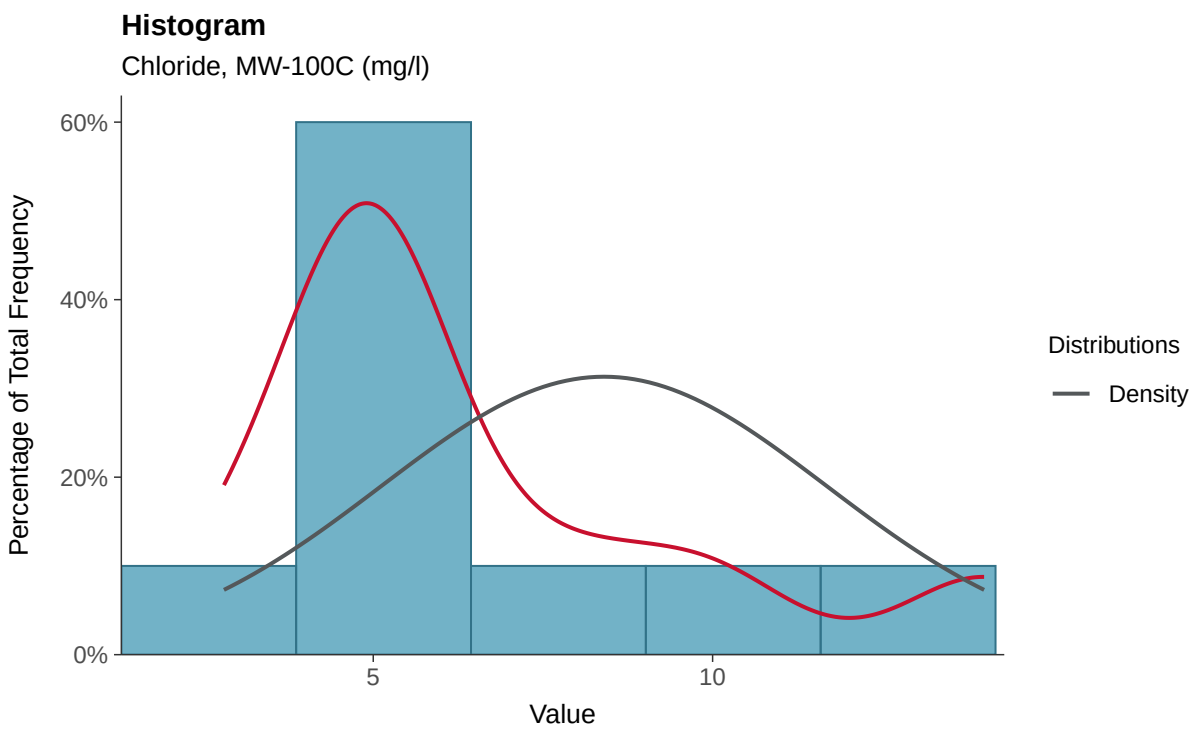
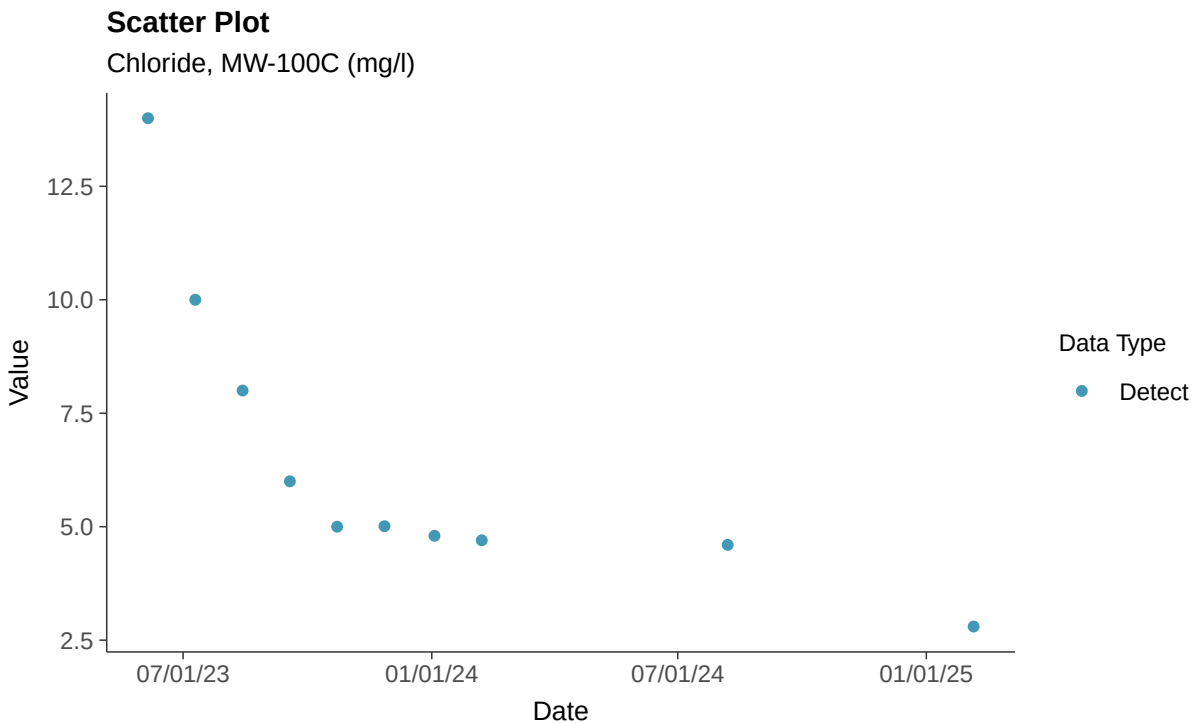


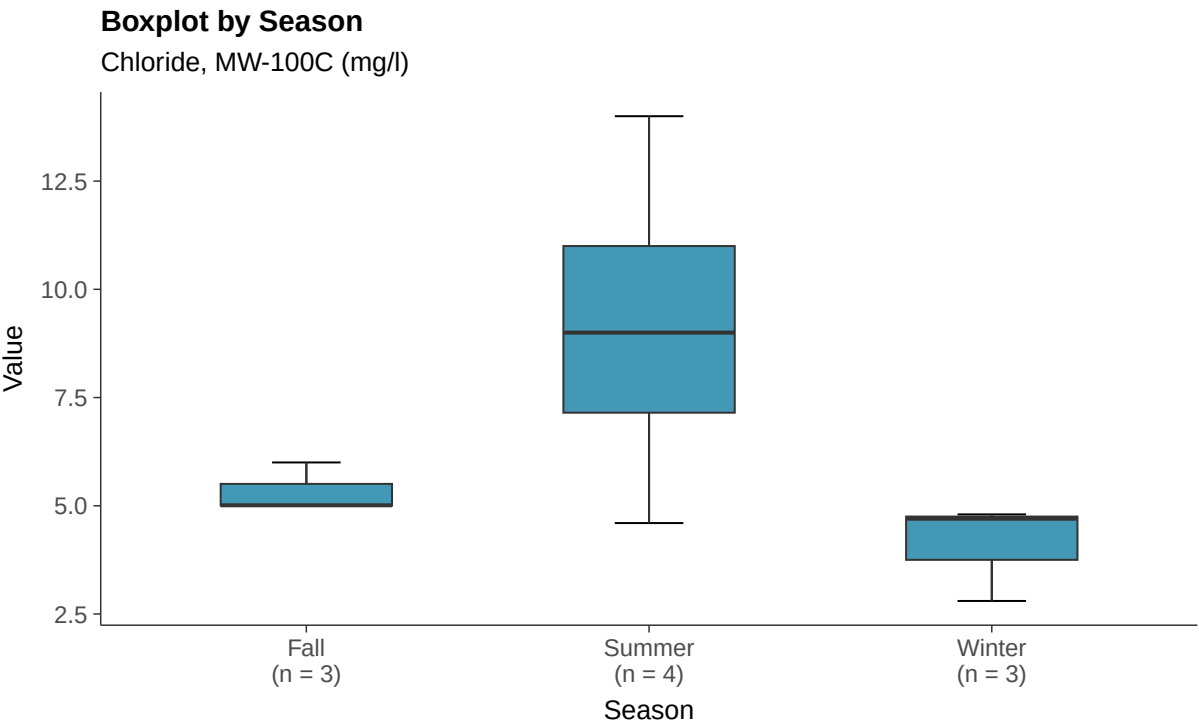
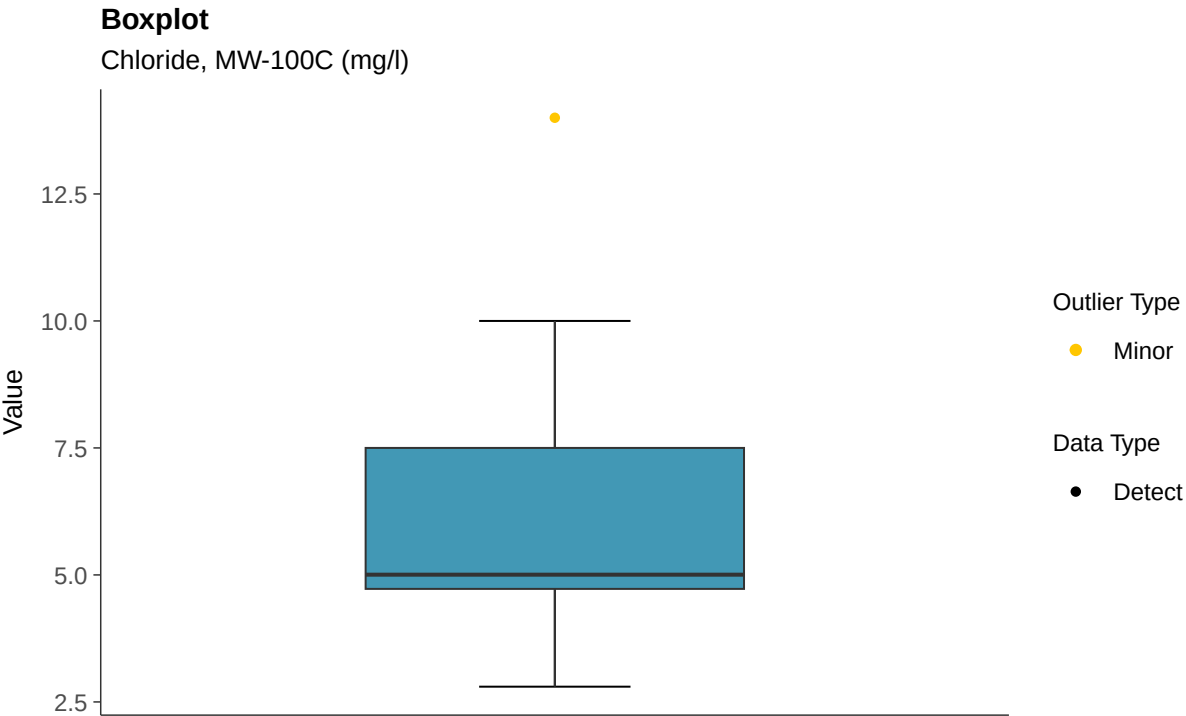




Appendix III: Chloride, MW-100C

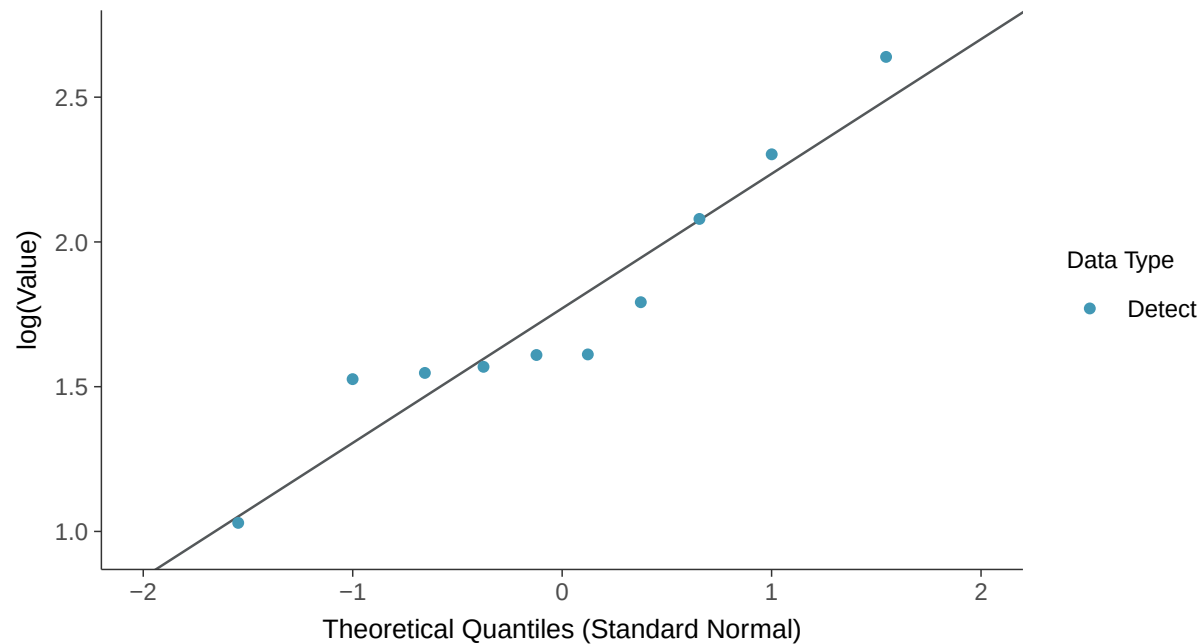
ID: 18_2_108



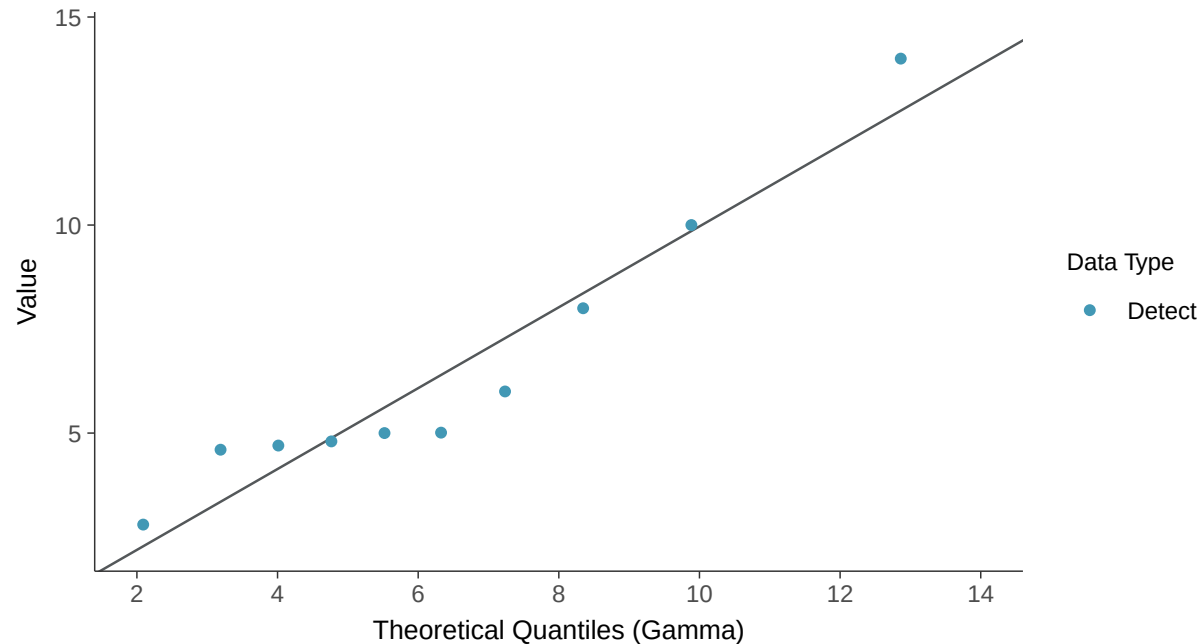




Lognormal Q-Q plot
Chloride, MW-100C (mg/l)



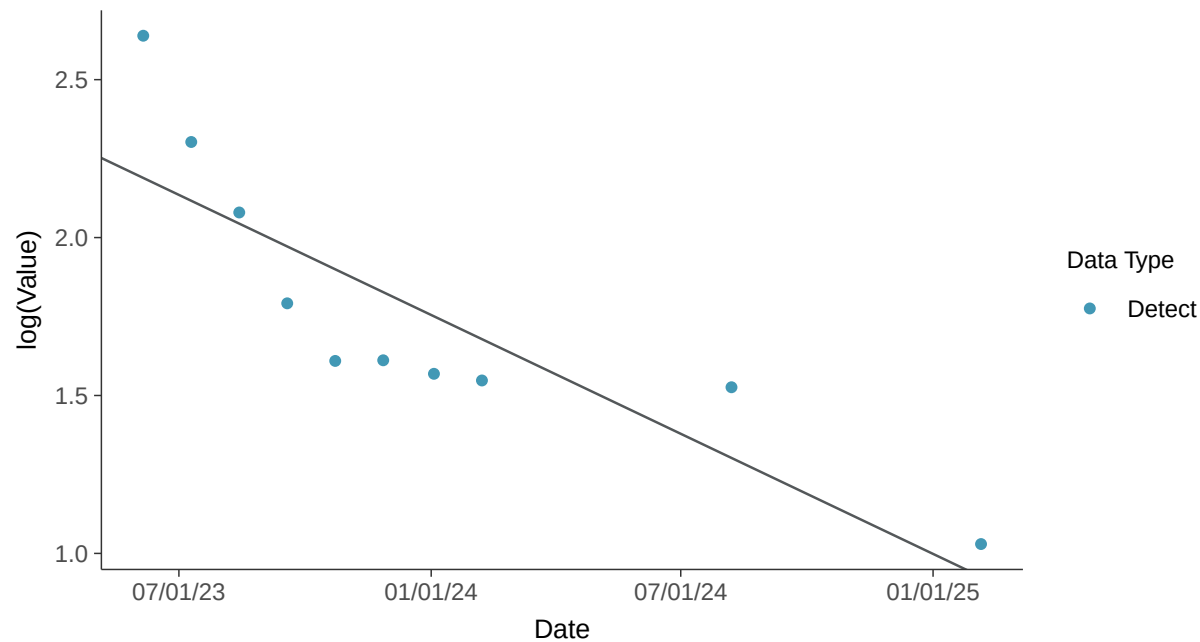
Gamma Q-Q plot
Chloride, MW-100C (mg/l)





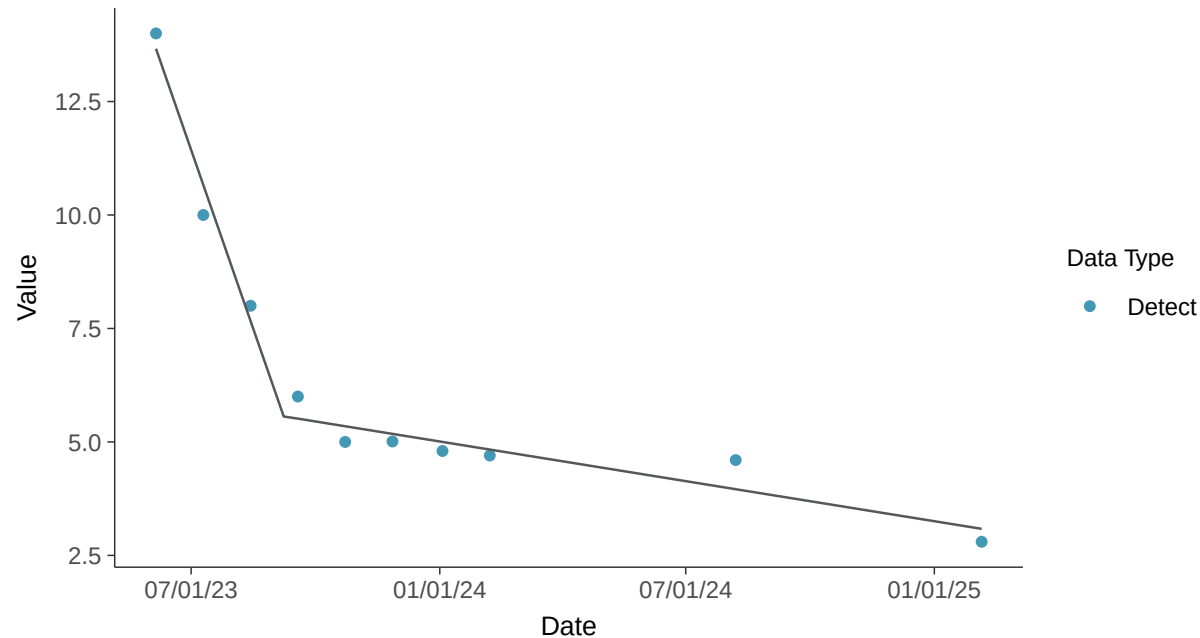
Trend Regression: Lognormal MLE

Chloride, MW-100C (mg/l)



Trend Regression: Piecewise Linear-Linear

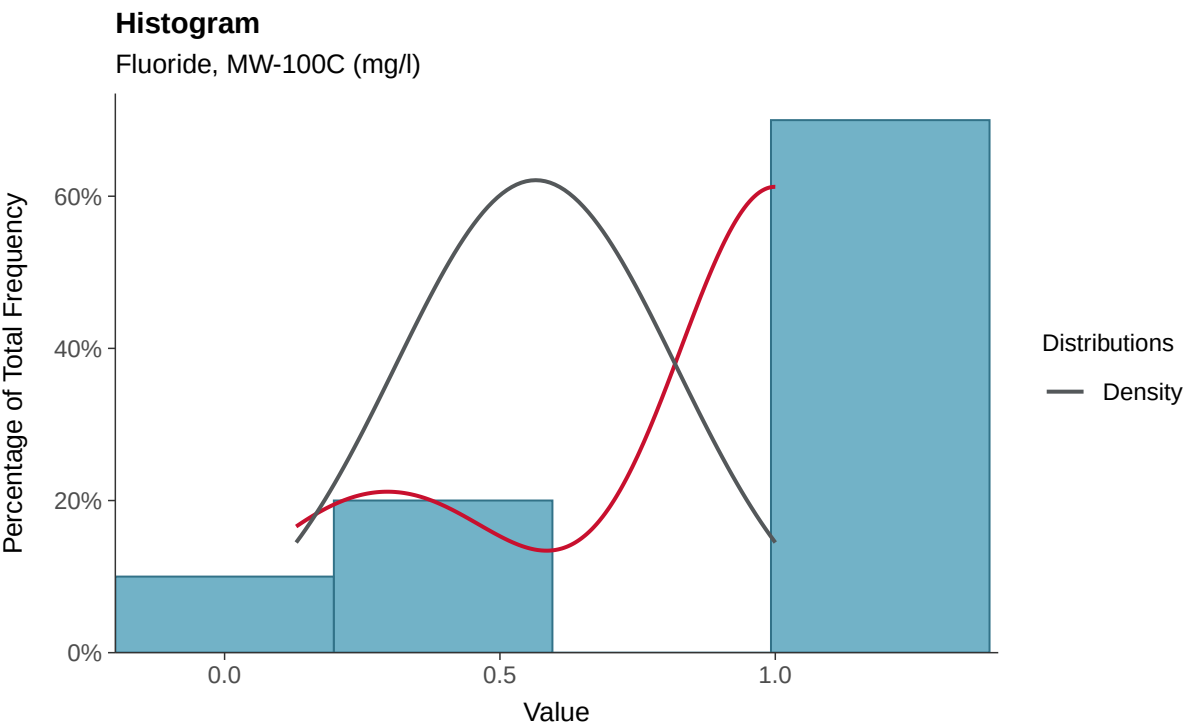
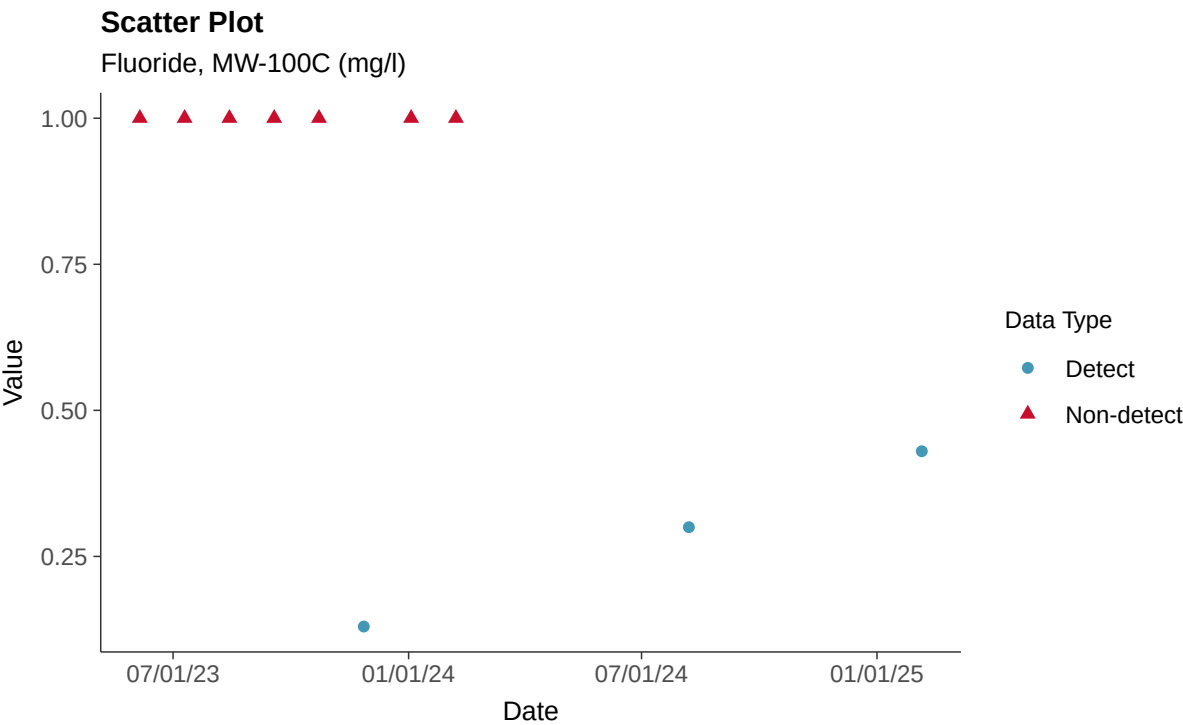
Chloride, MW-100C (mg/l)

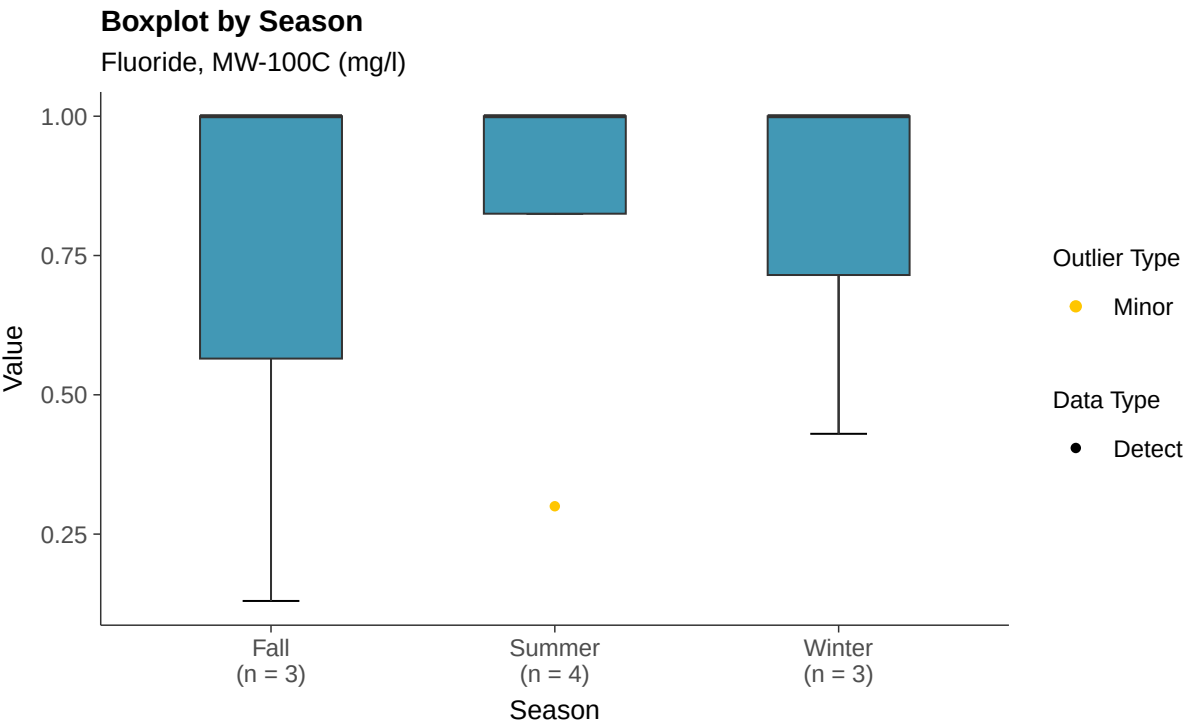
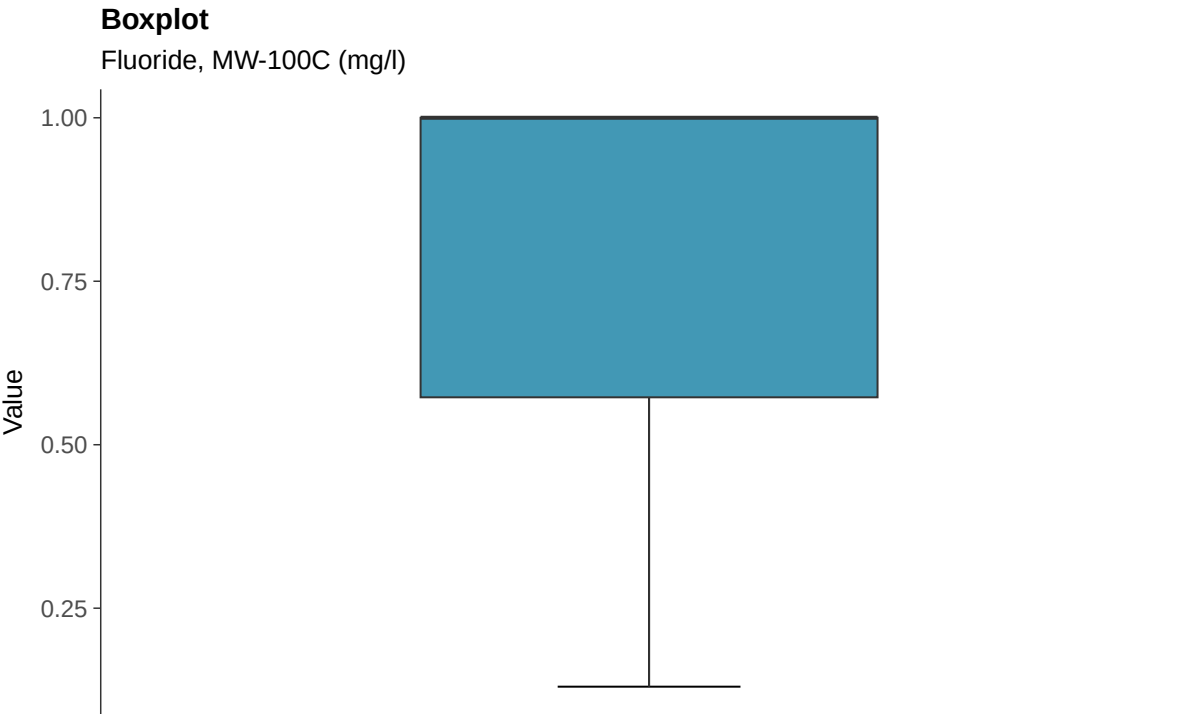




Appendix III: Fluoride, MW-100C

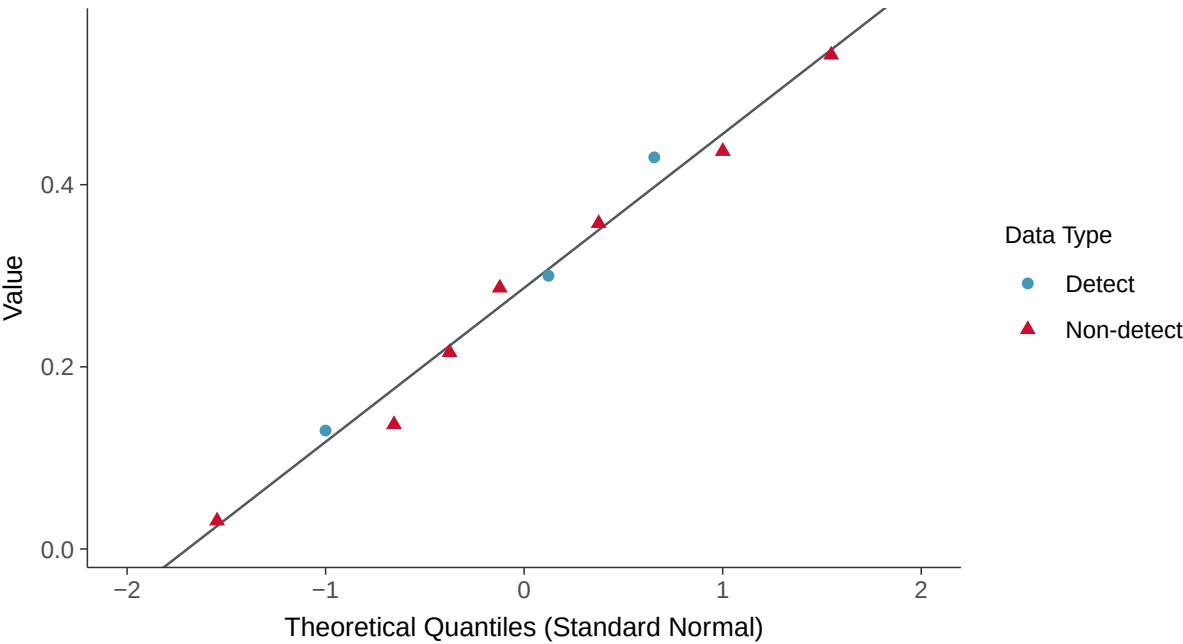
ID: 18_2_112







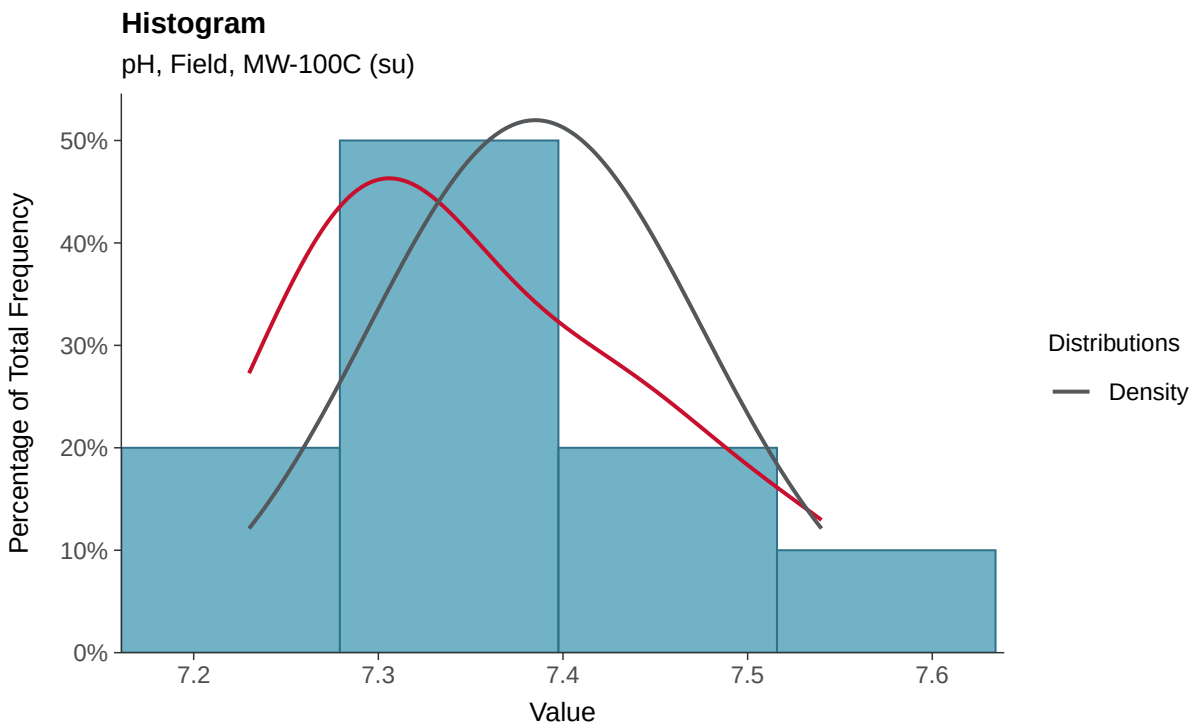
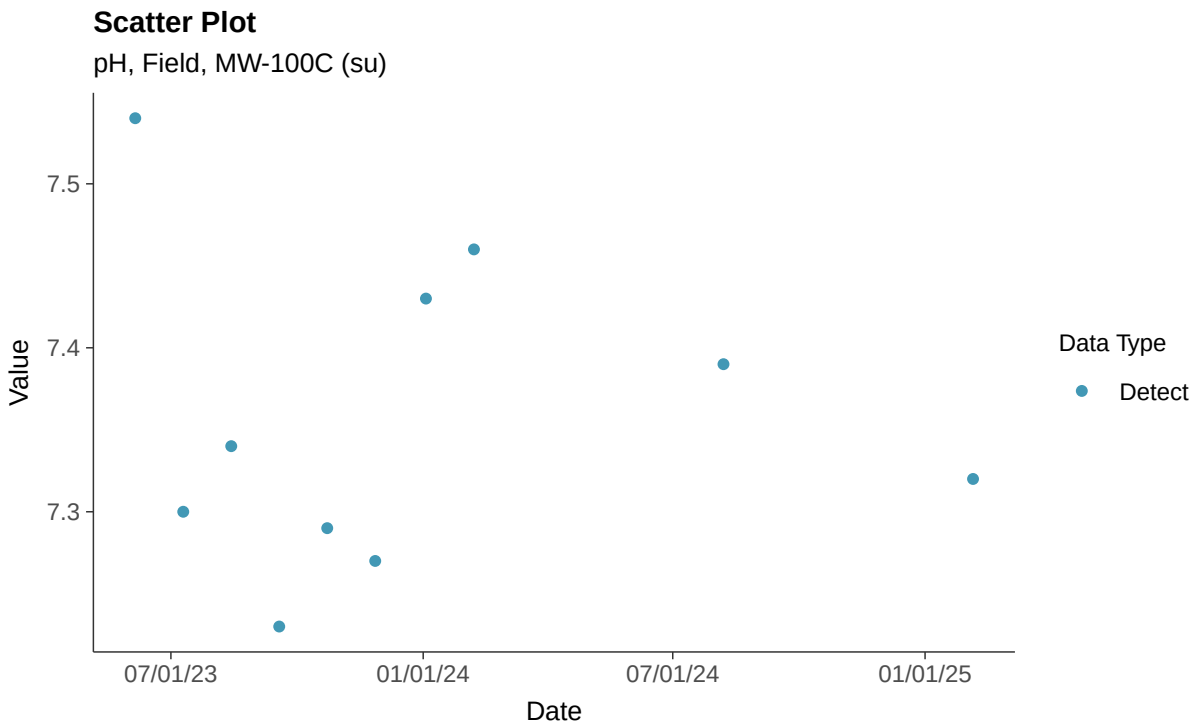
Normal Q-Q plot using ROS Imputed Estimates
Fluoride, MW-100C (mg/l)

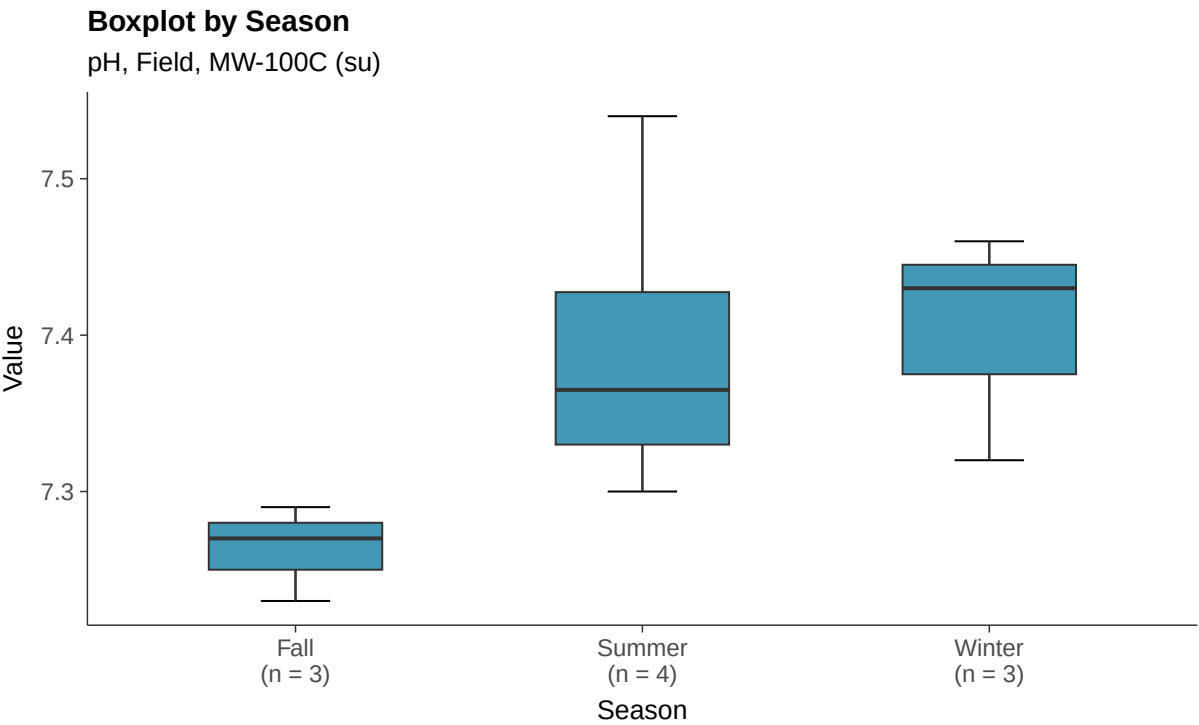
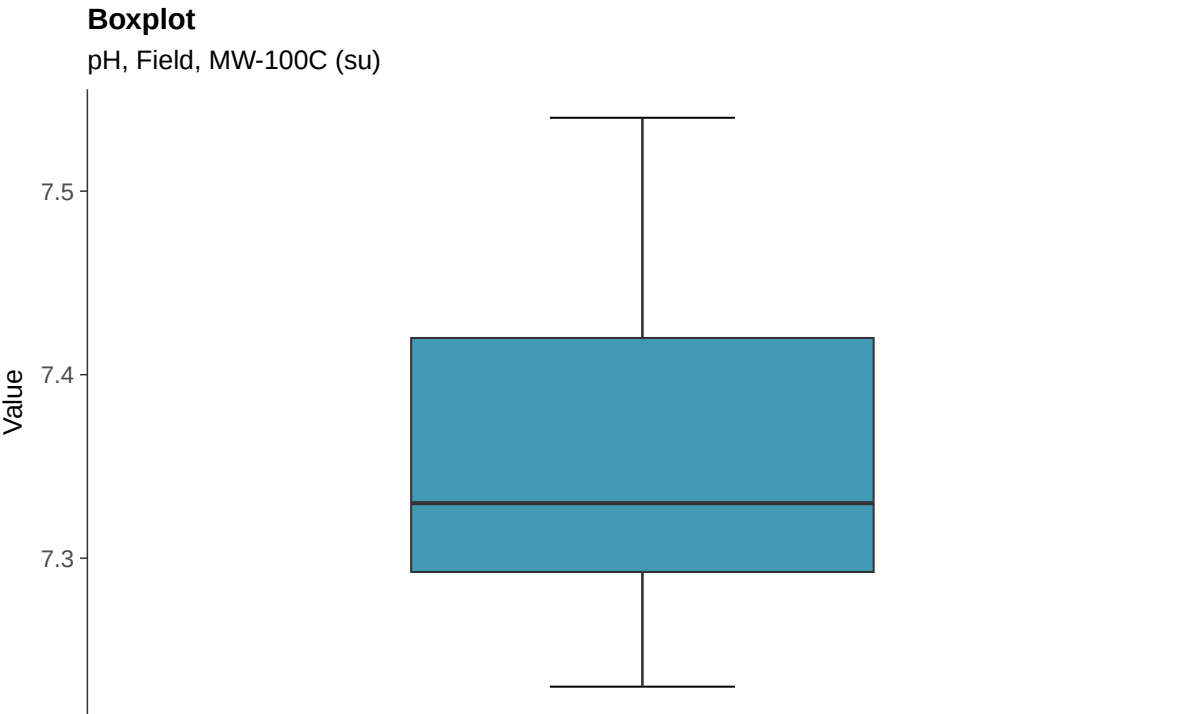


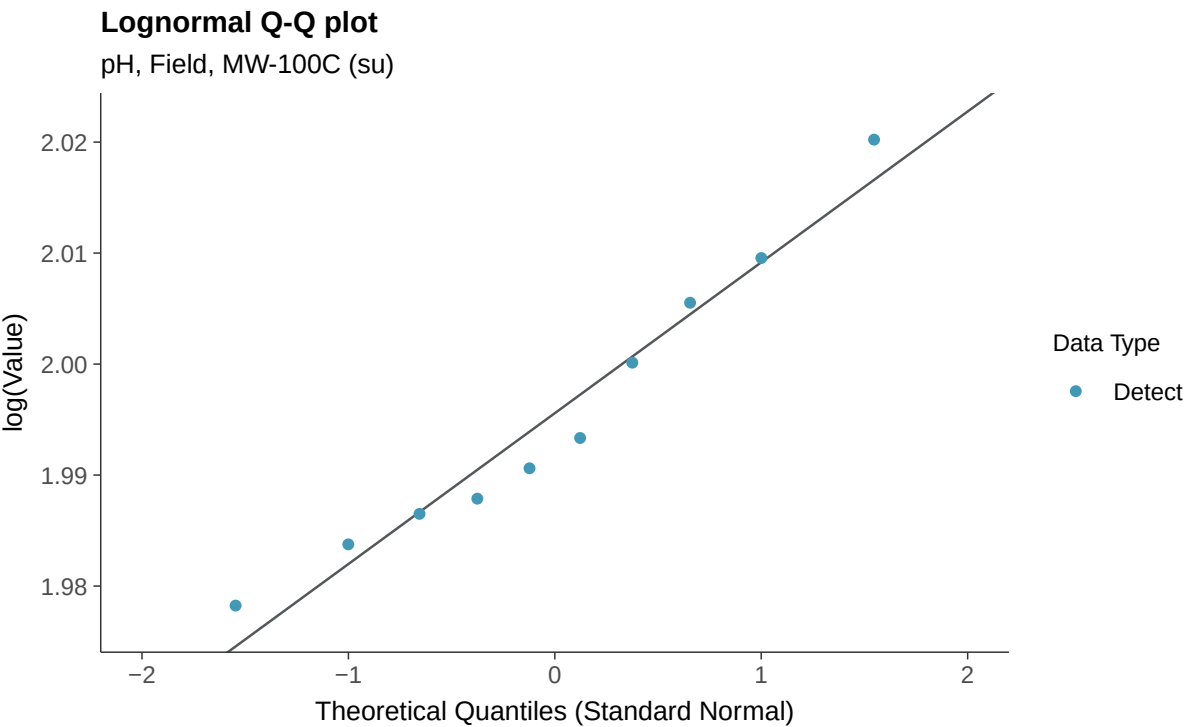
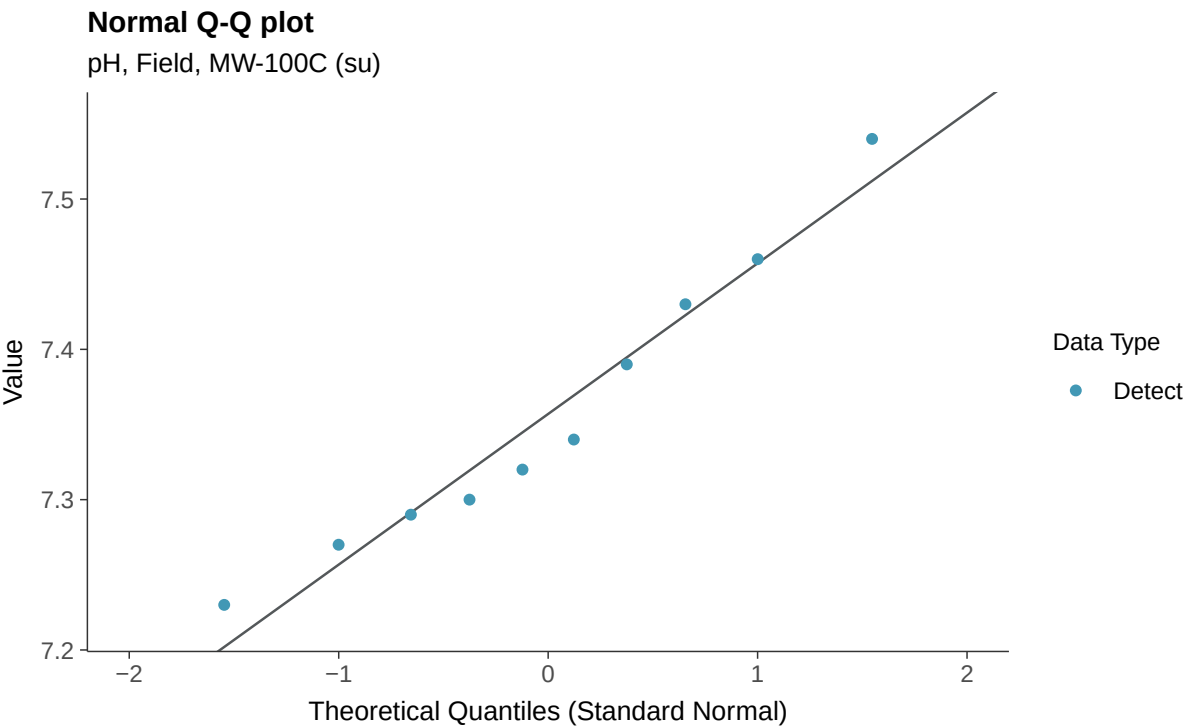


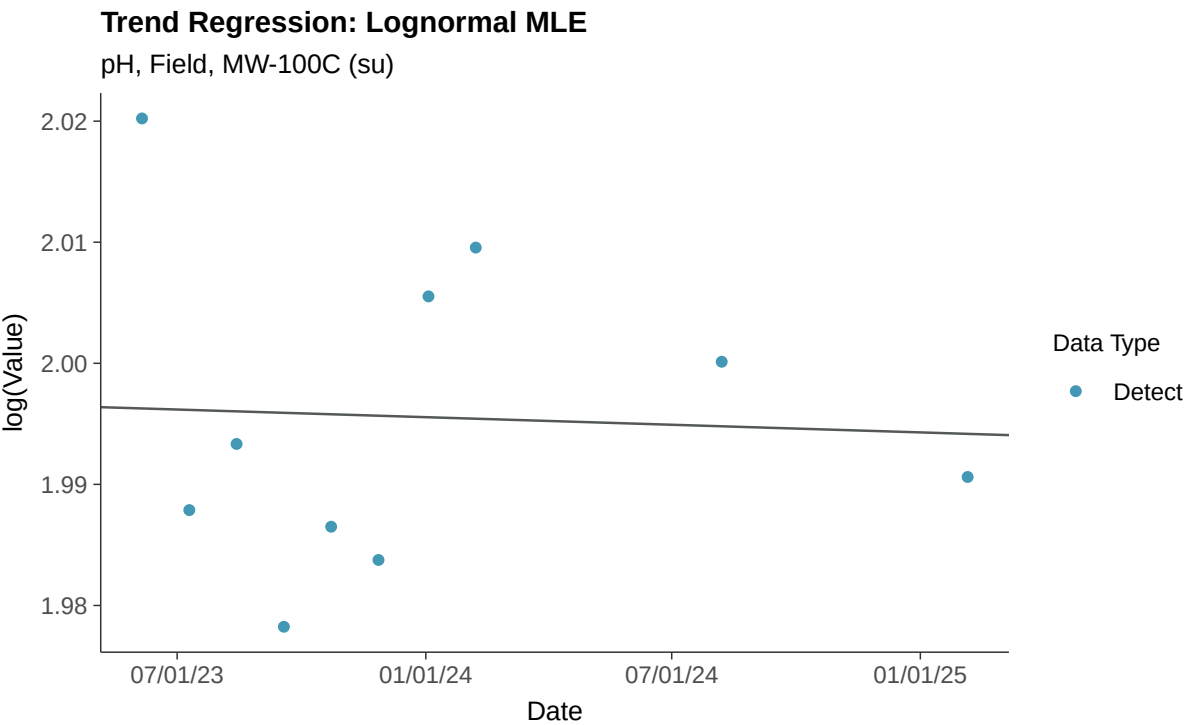
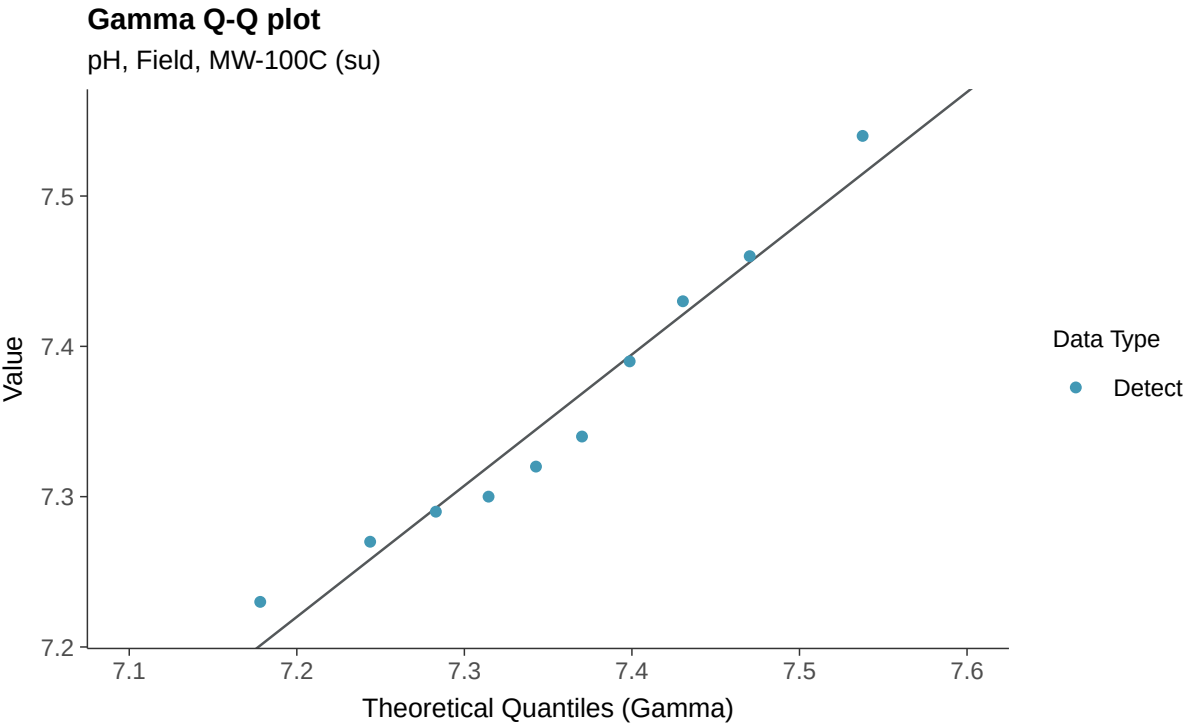
Appendix III: pH, Field, MW-100C

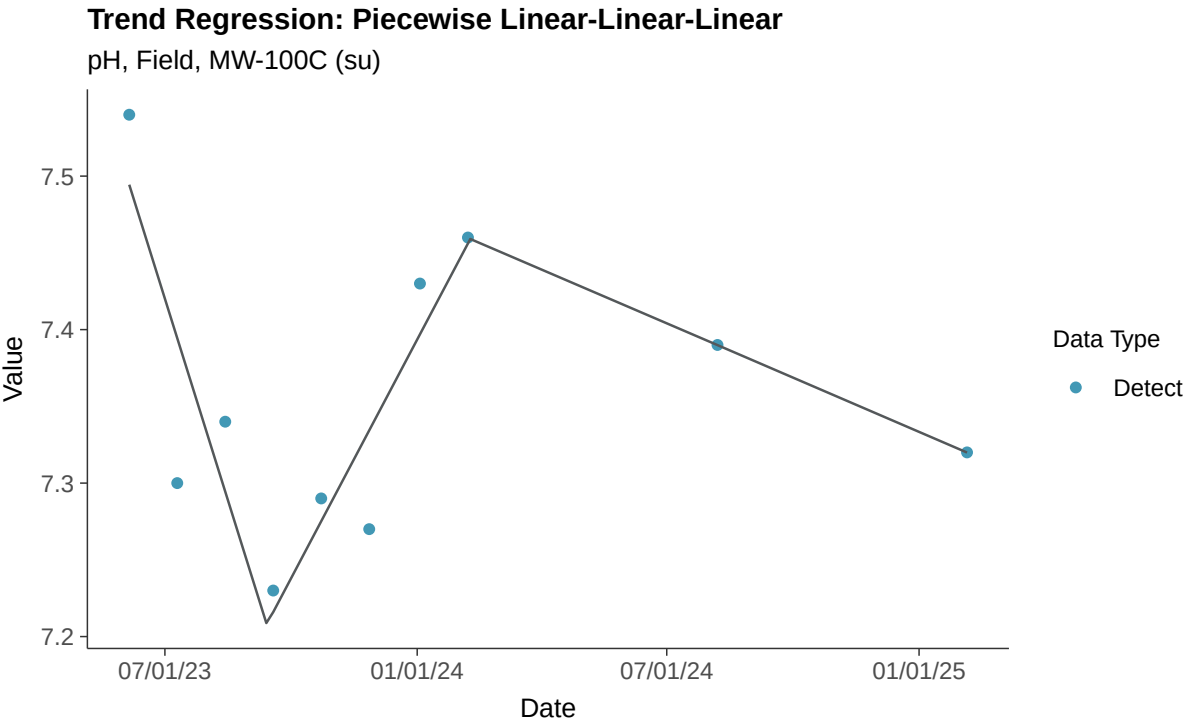
ID: 18_2_120







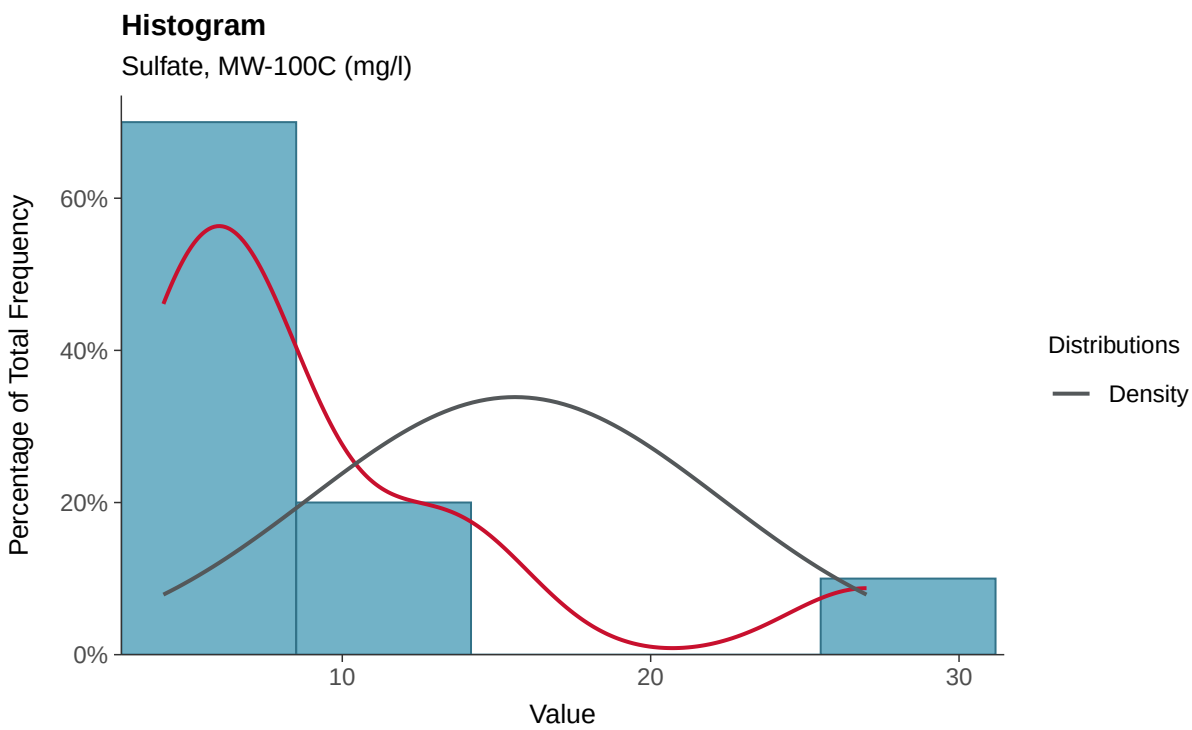
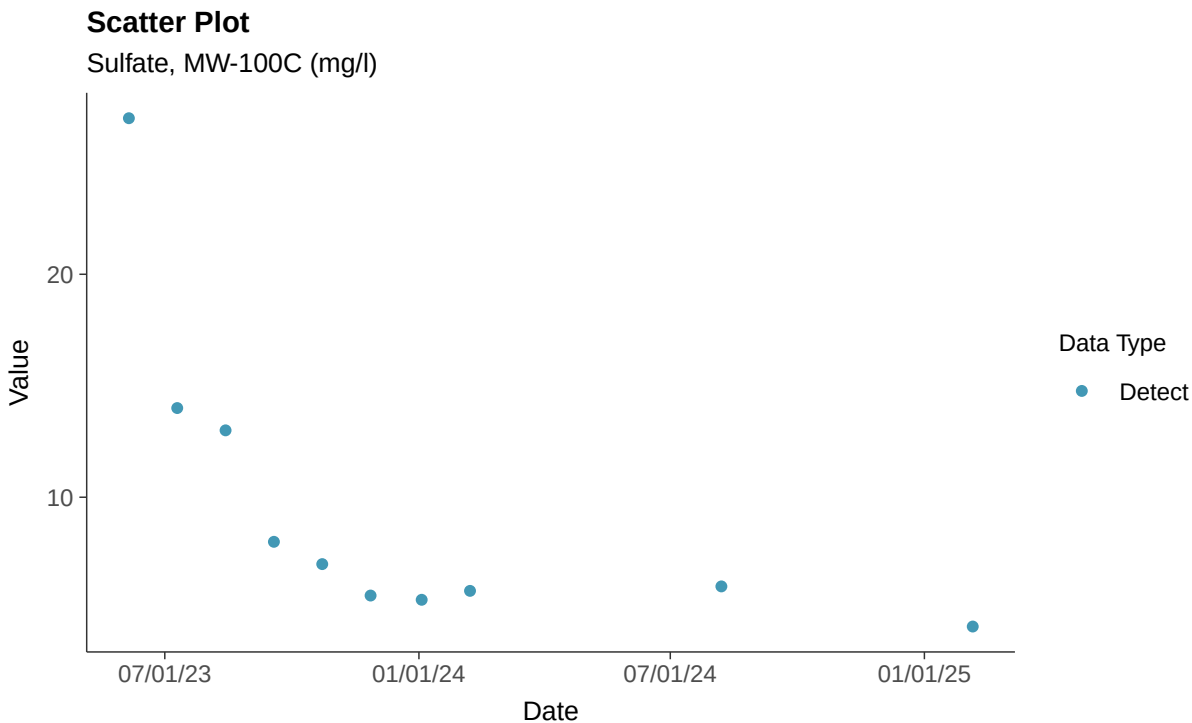


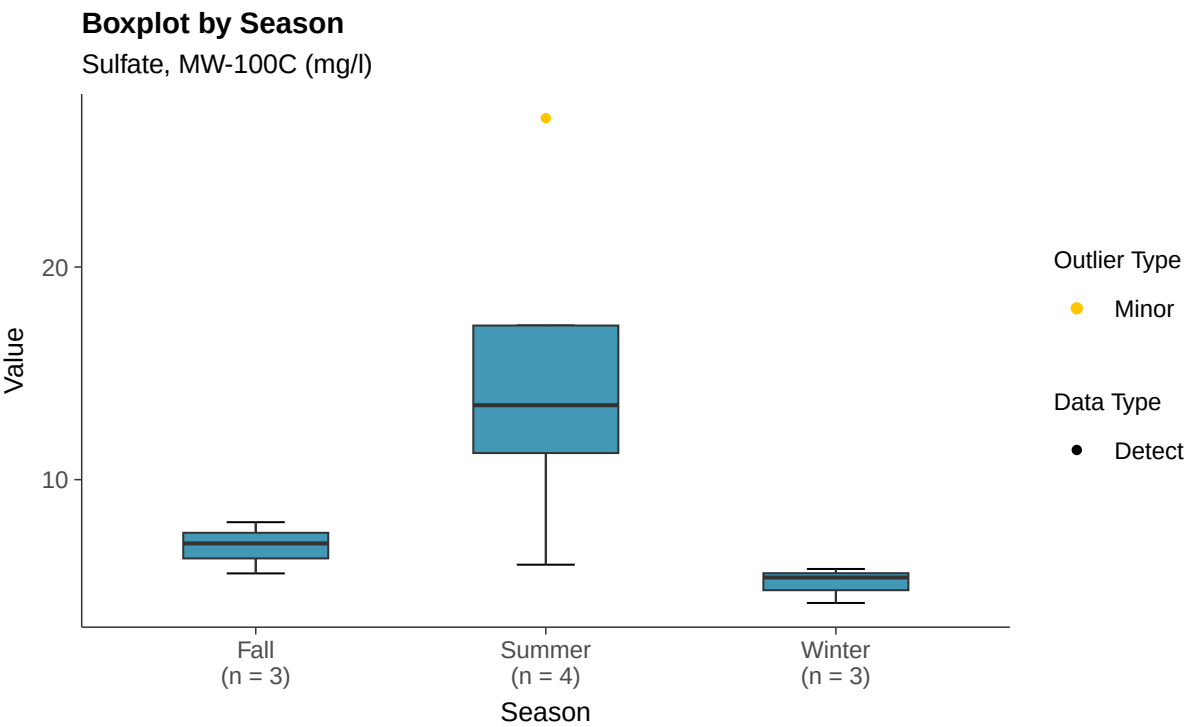
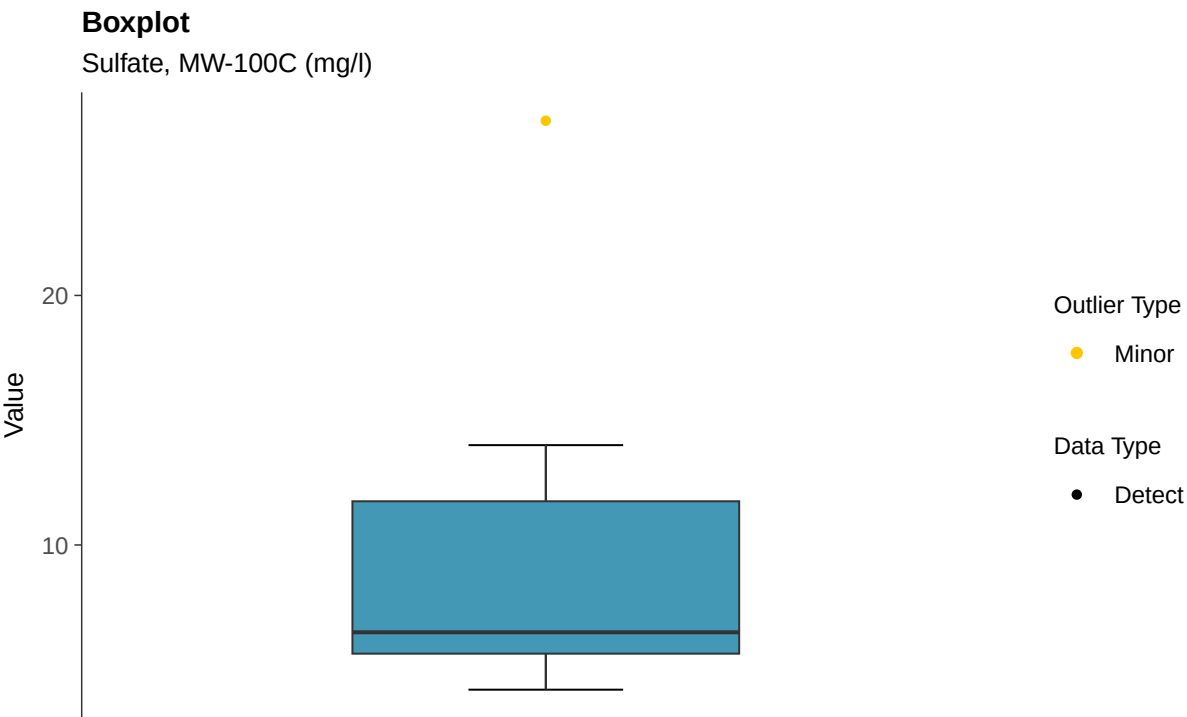




Appendix III: Sulfate, MW-100C

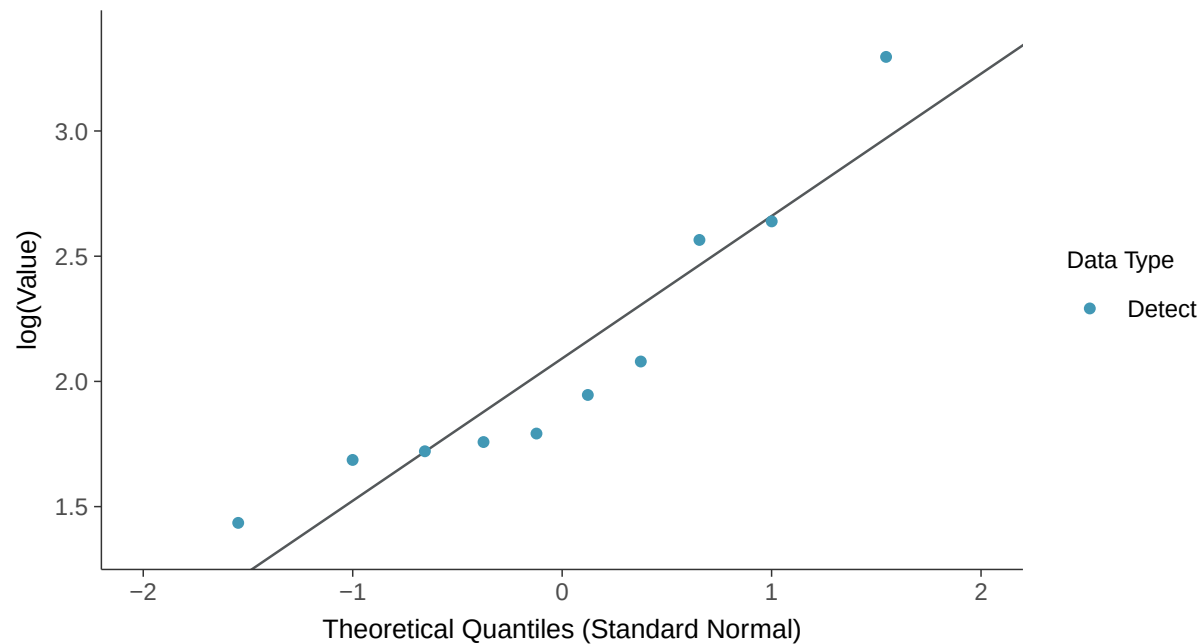
ID: 18_2_124



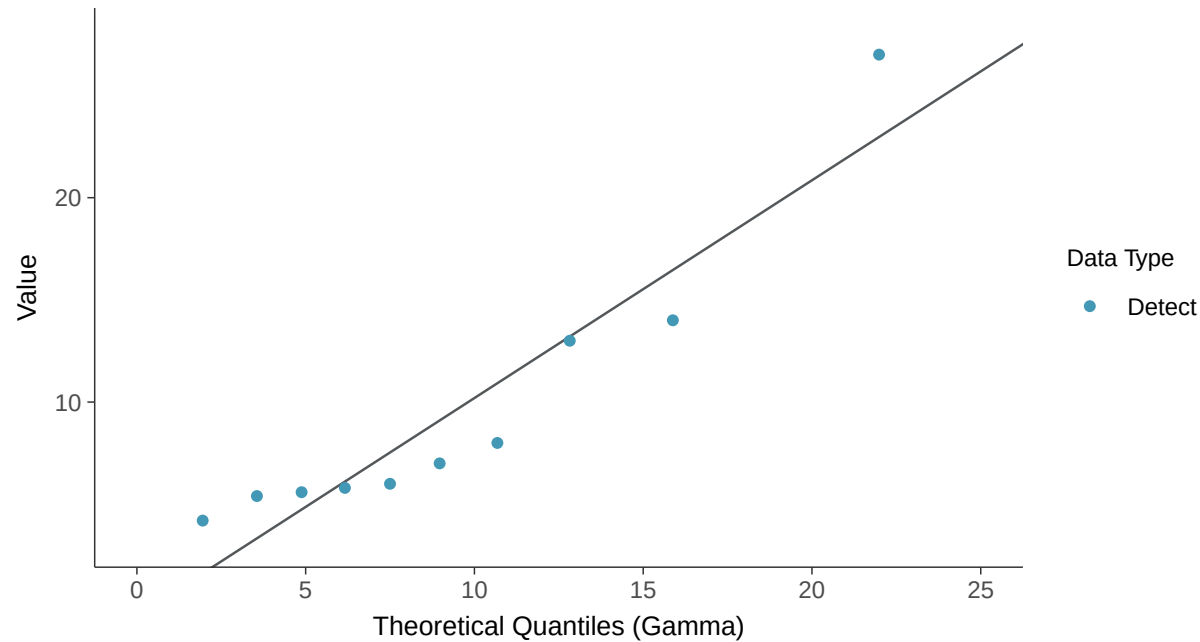




Lognormal Q-Q plot
Sulfate, MW-100C (mg/l)



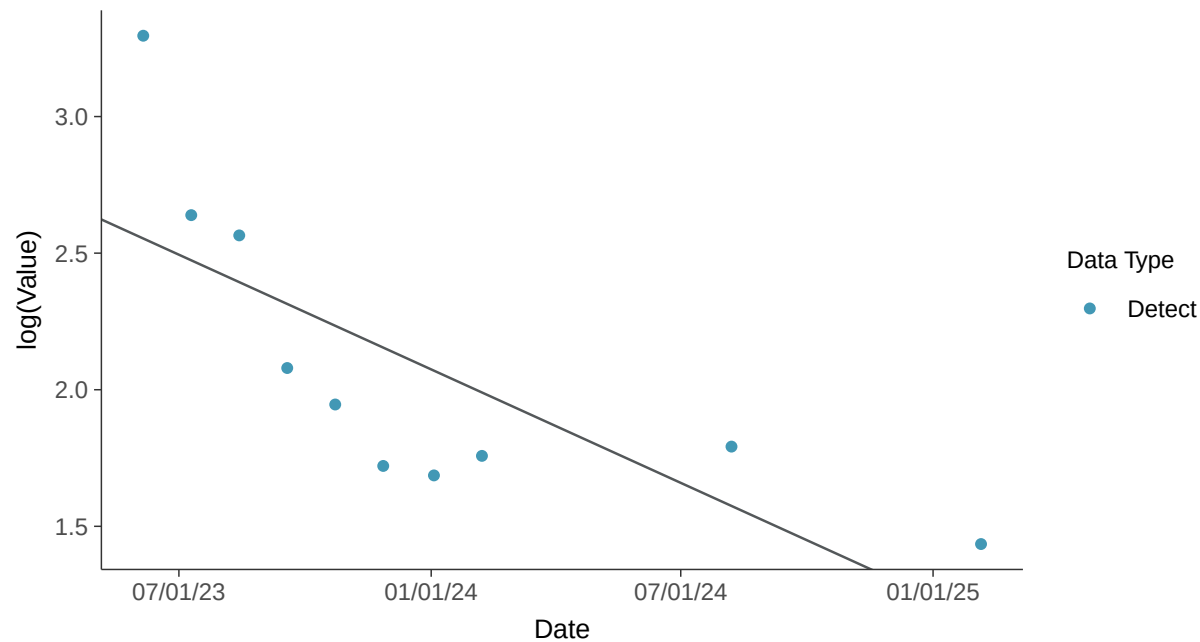
Gamma Q-Q plot
Sulfate, MW-100C (mg/l)





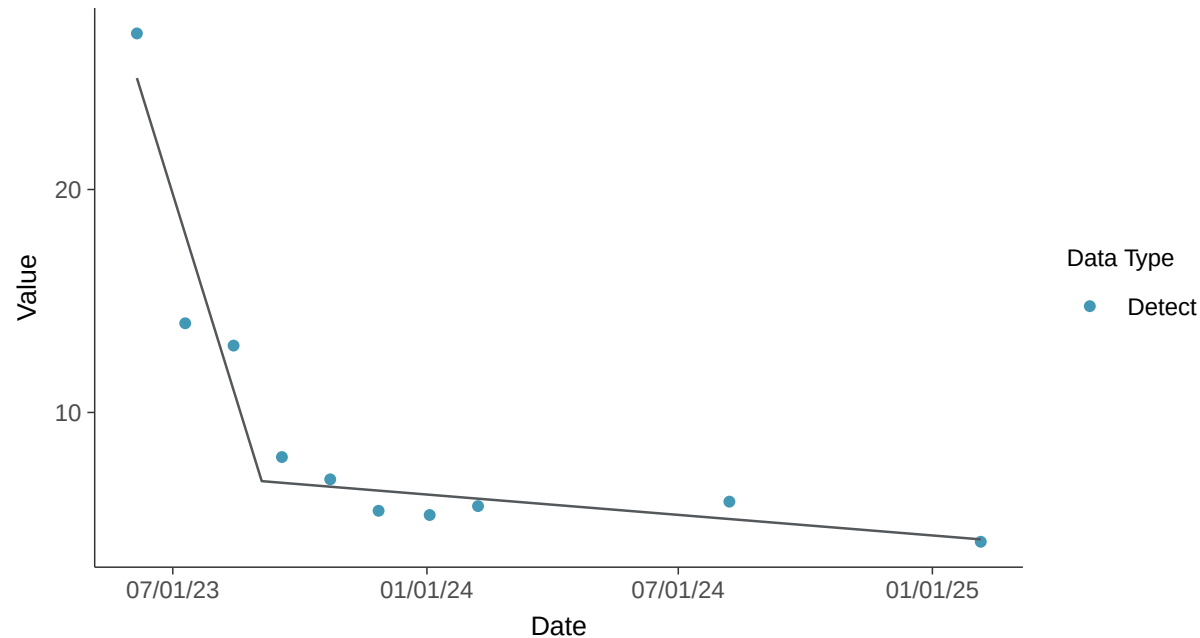
Trend Regression: Lognormal MLE

Sulfate, MW-100C (mg/l)



Trend Regression: Piecewise Linear-Linear

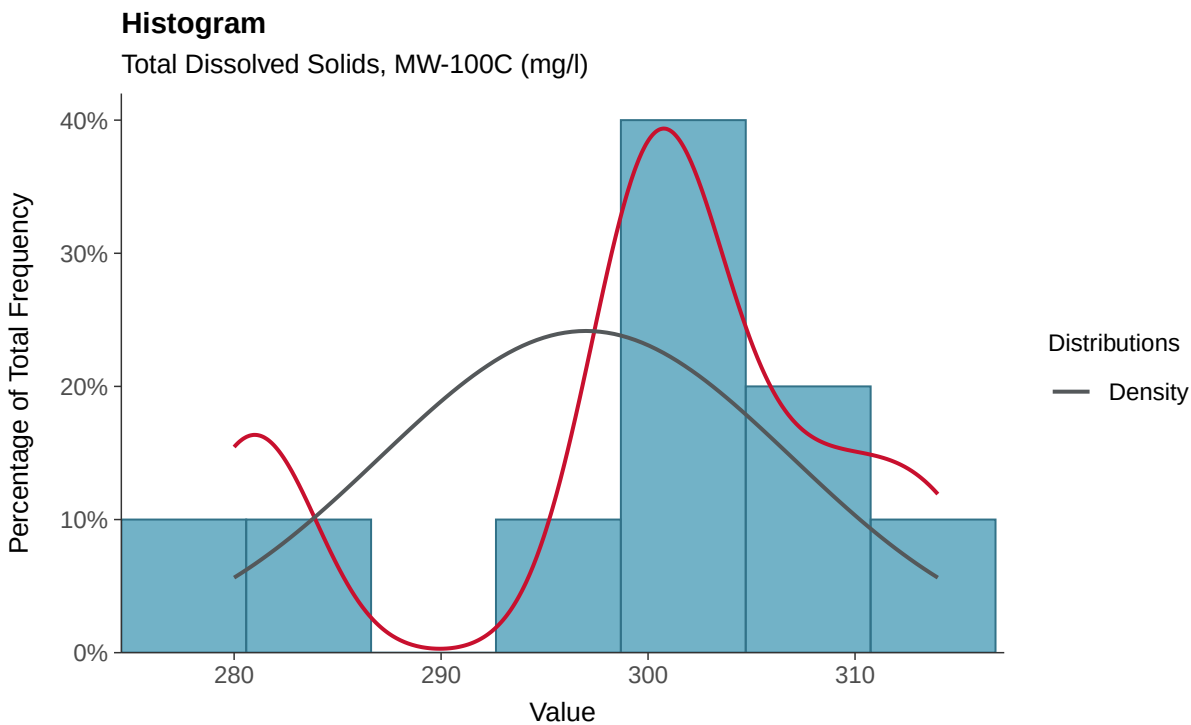
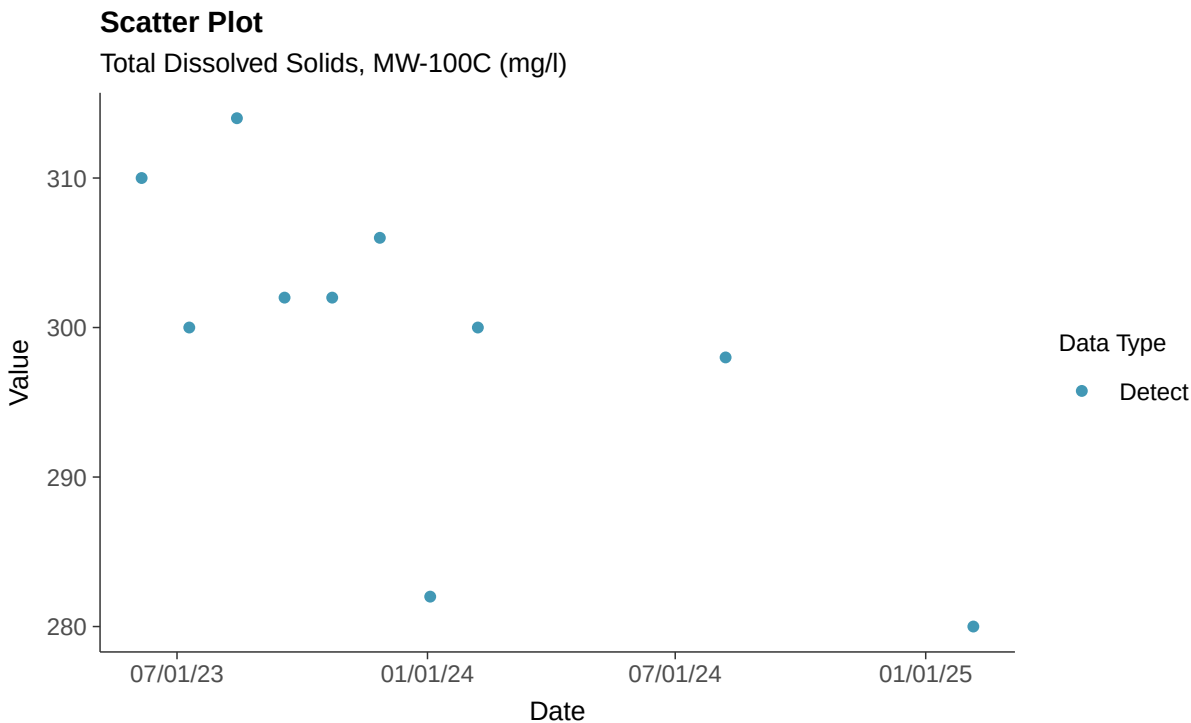
Sulfate, MW-100C (mg/l)

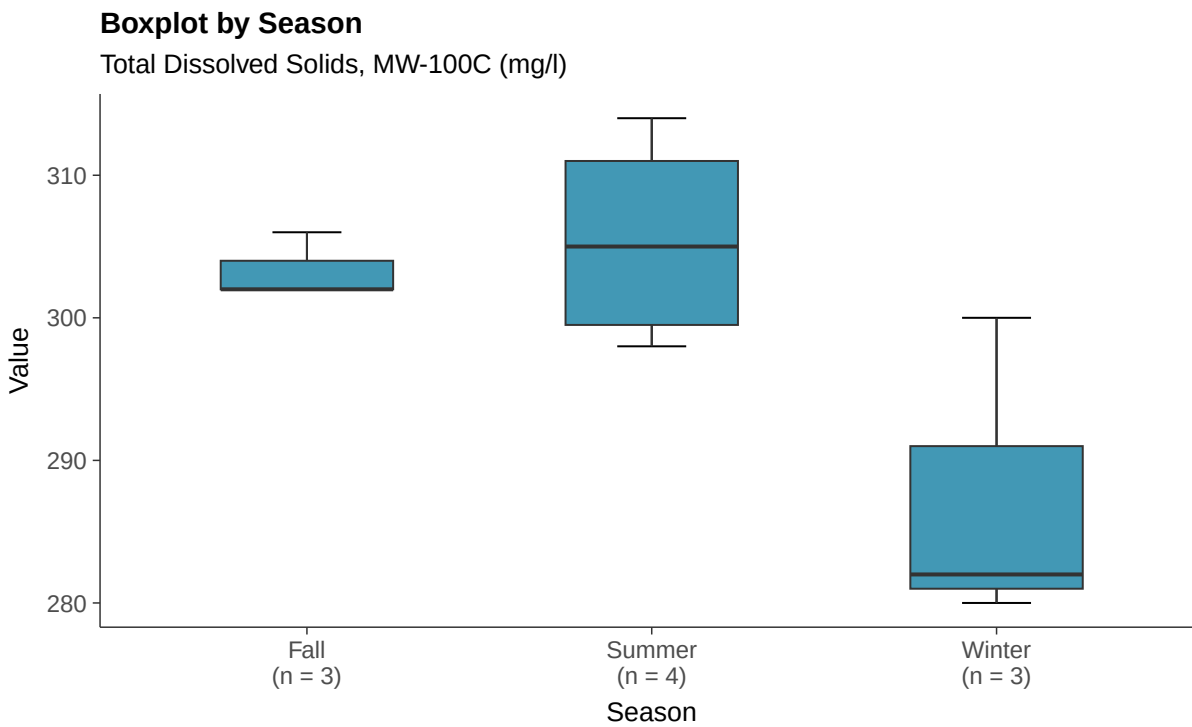
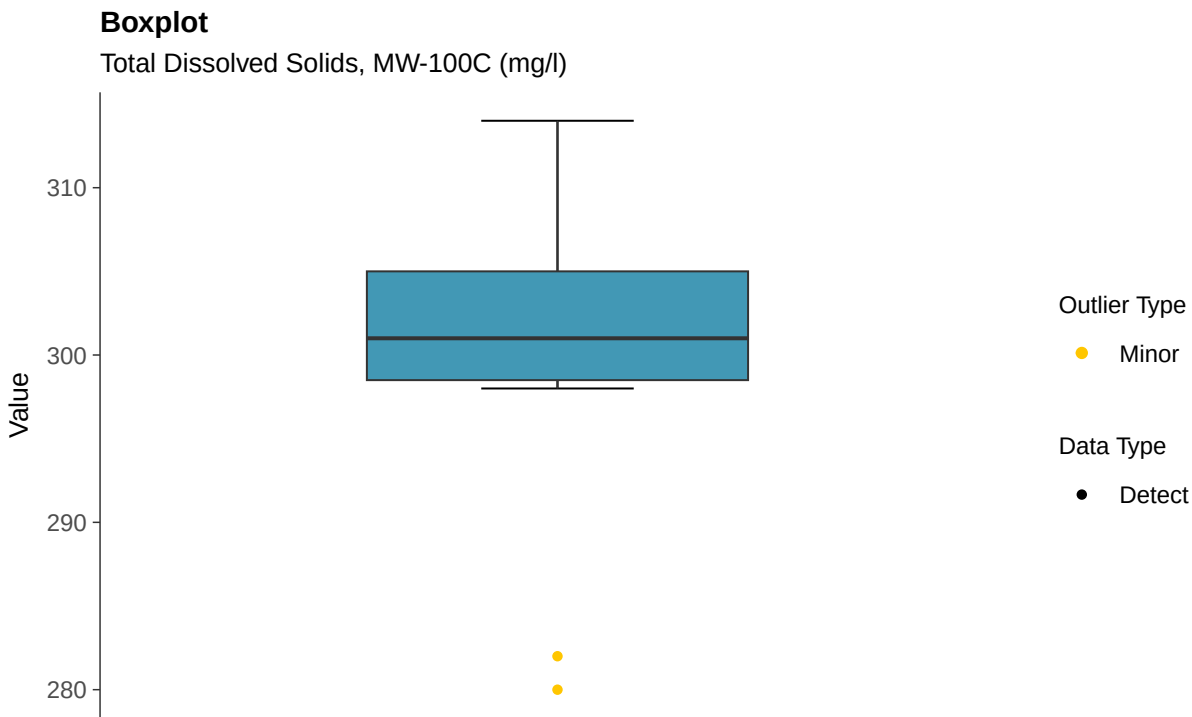




Appendix III: Total Dissolved Solids, MW-100C

ID: 18_2_126

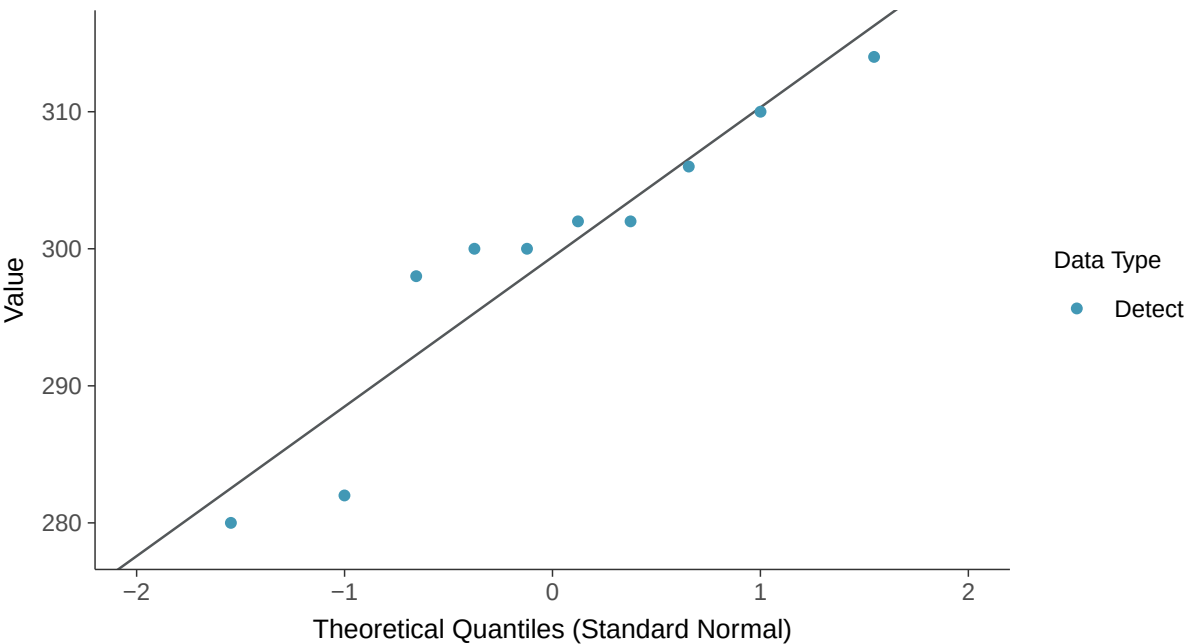






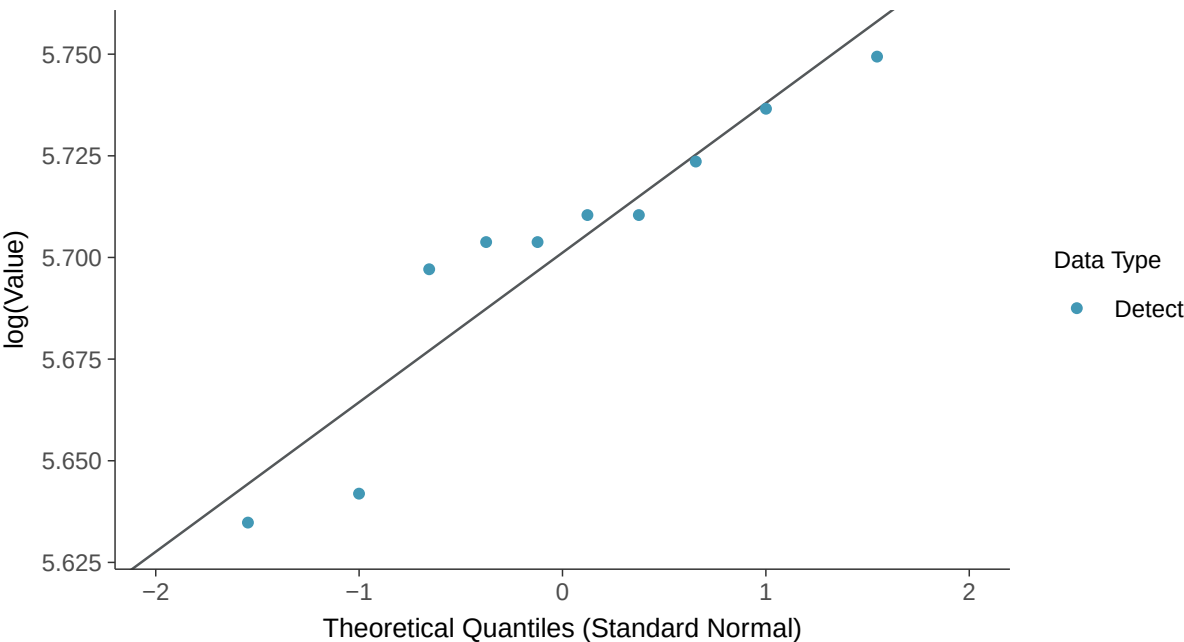
Normal Q-Q plot

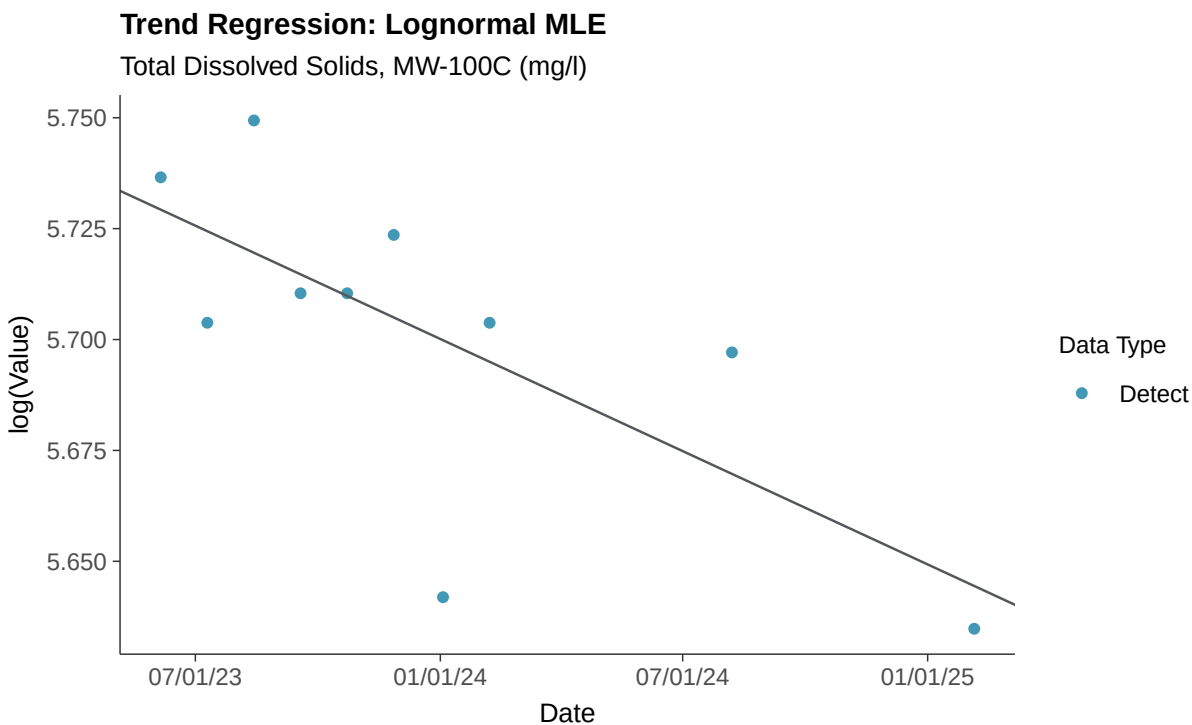
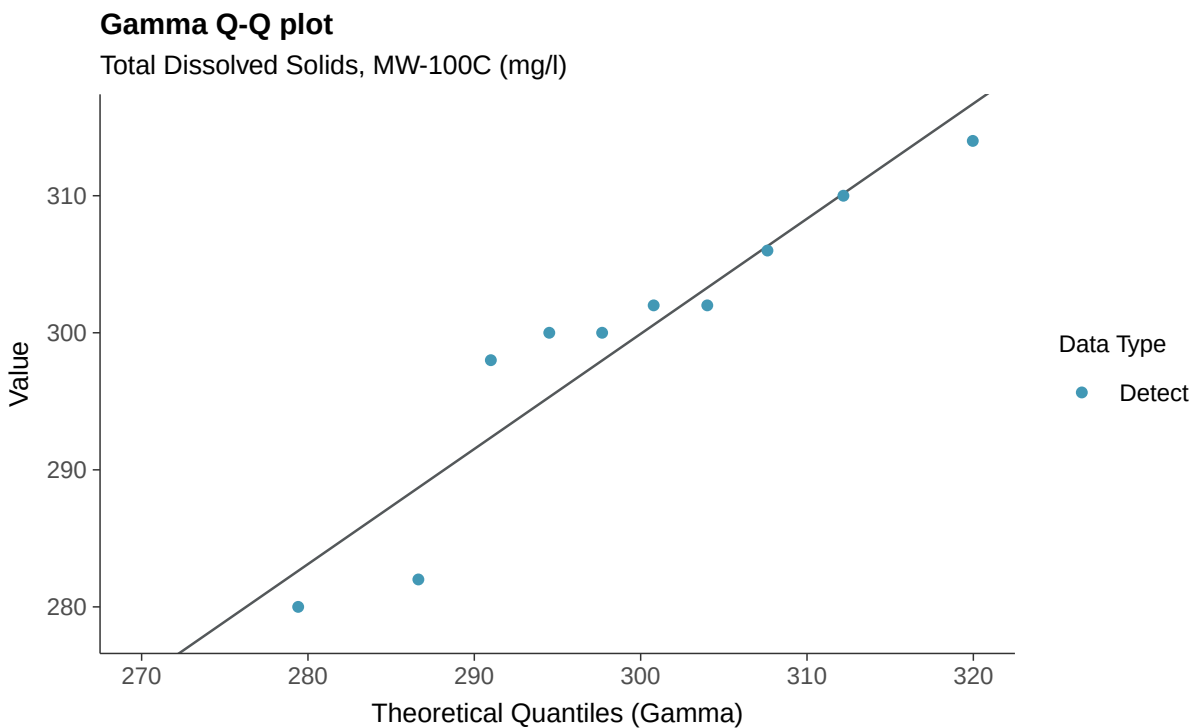
Total Dissolved Solids, MW-100C (mg/l)

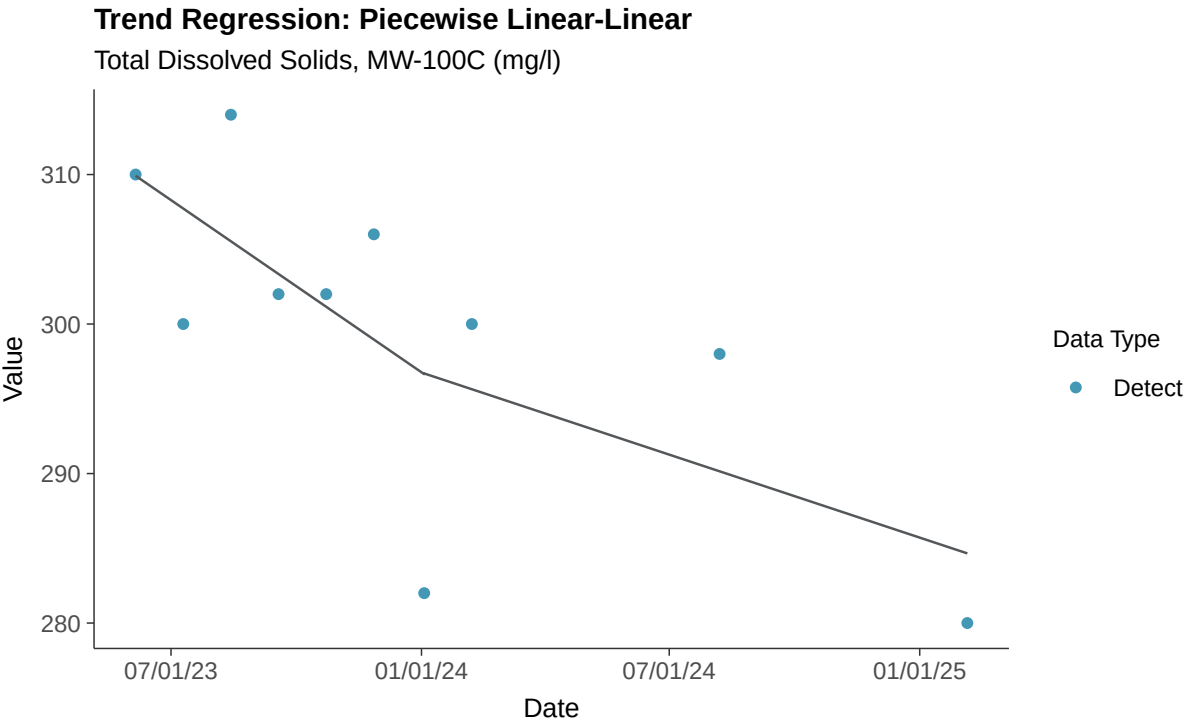


Lognormal Q-Q plot

Total Dissolved Solids, MW-100C (mg/l)



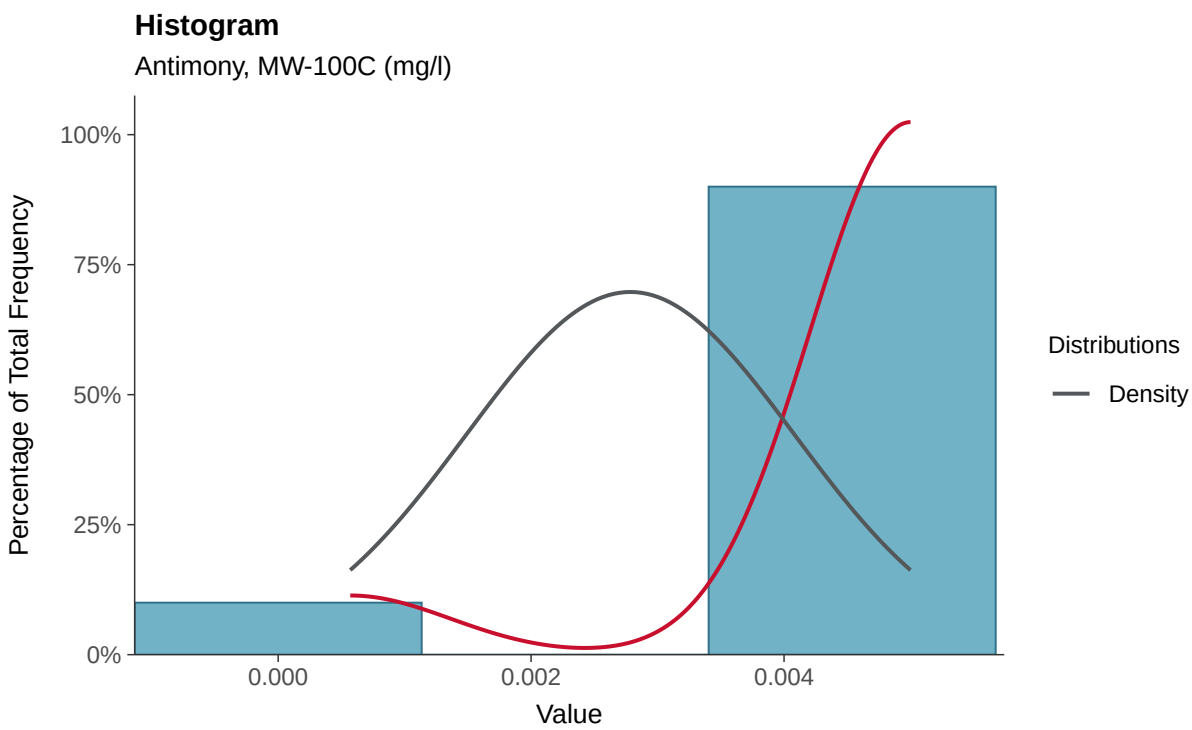
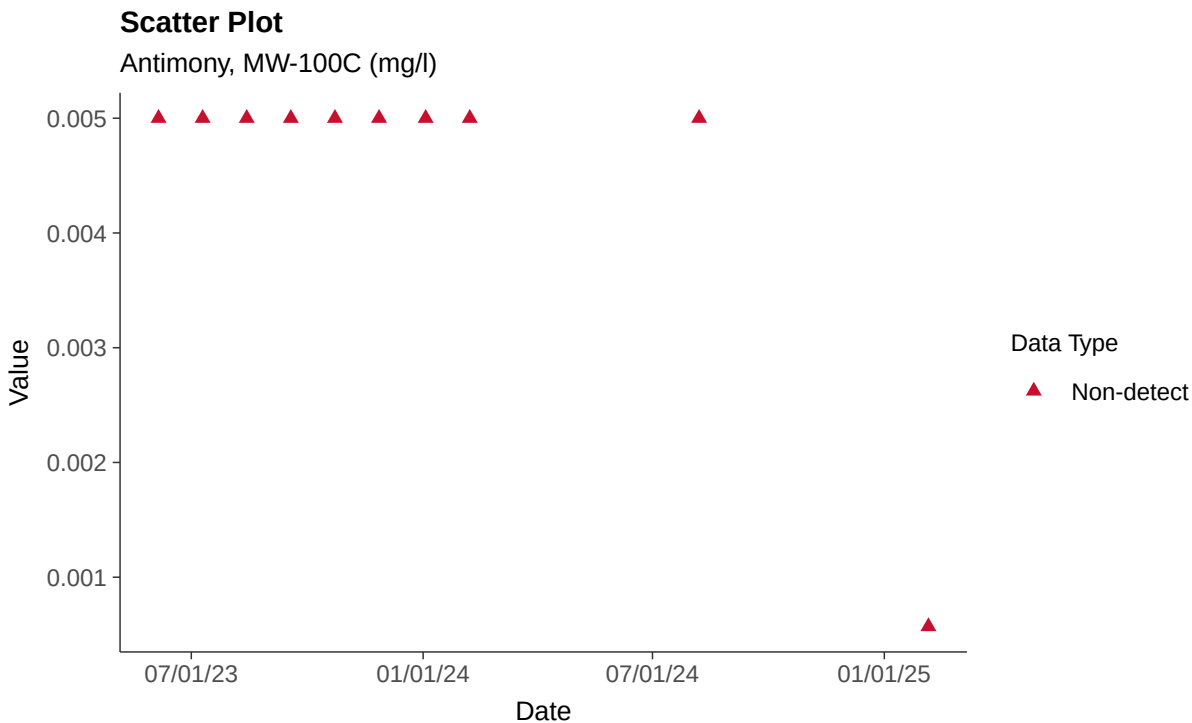


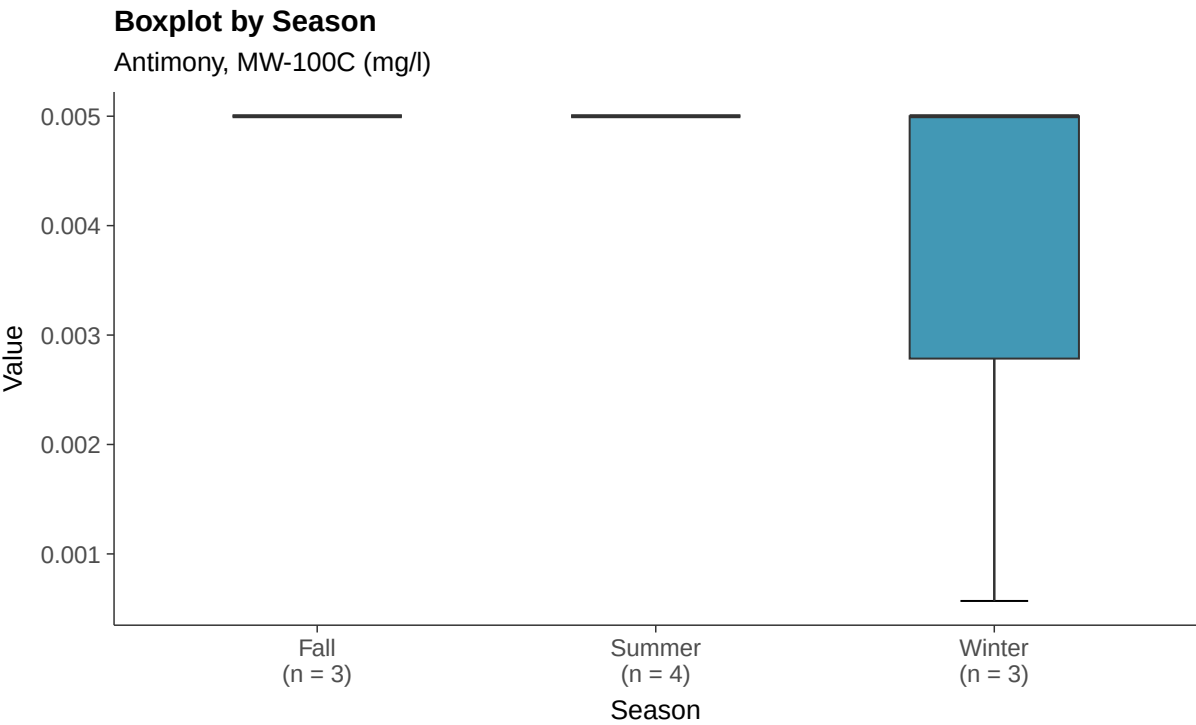
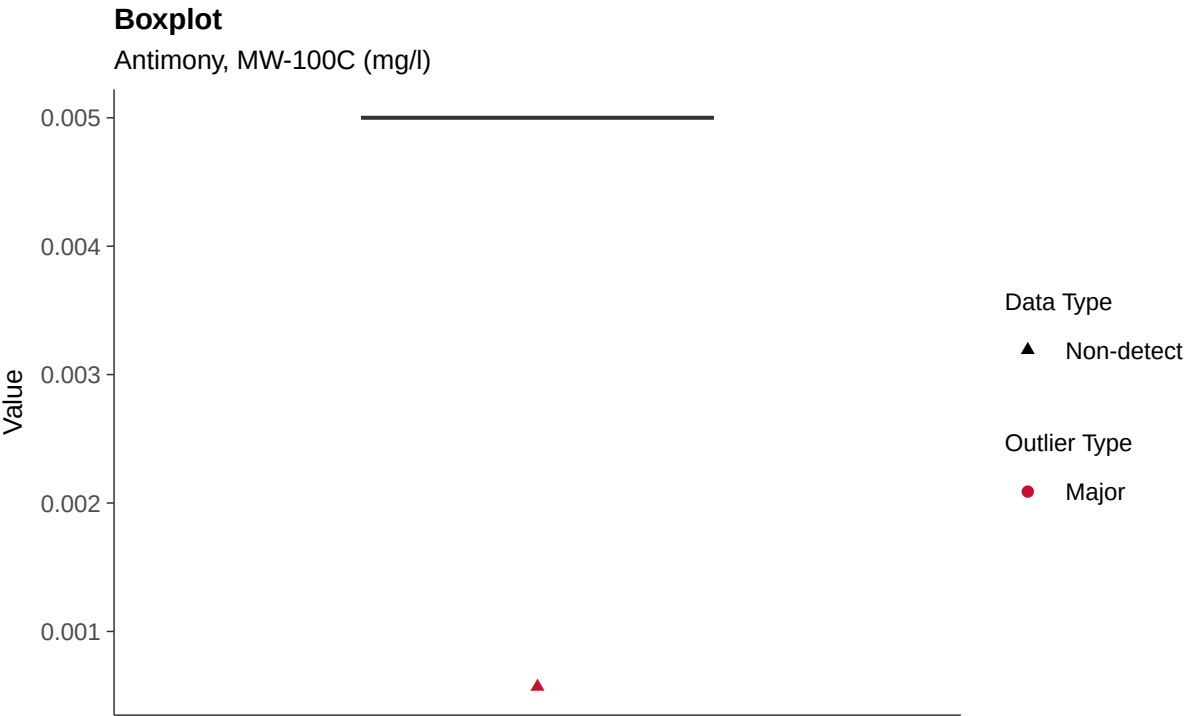




Appendix IV: Antimony, MW-100C

ID: 18_3_101

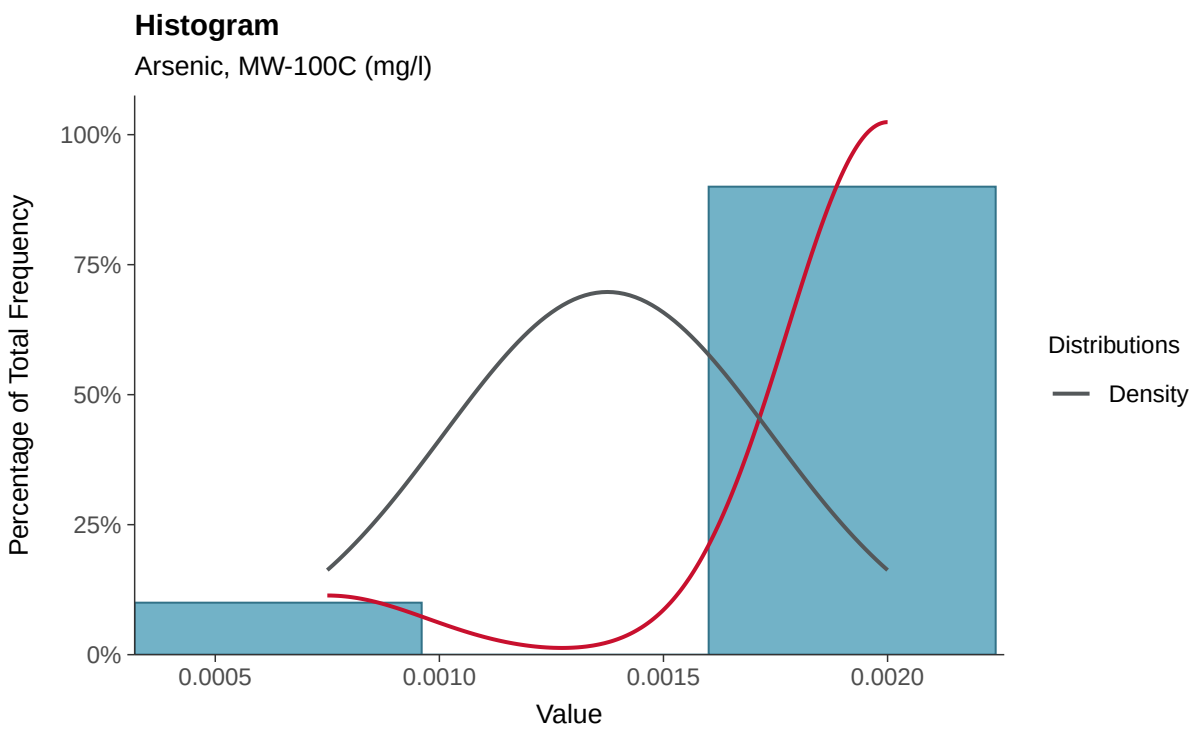
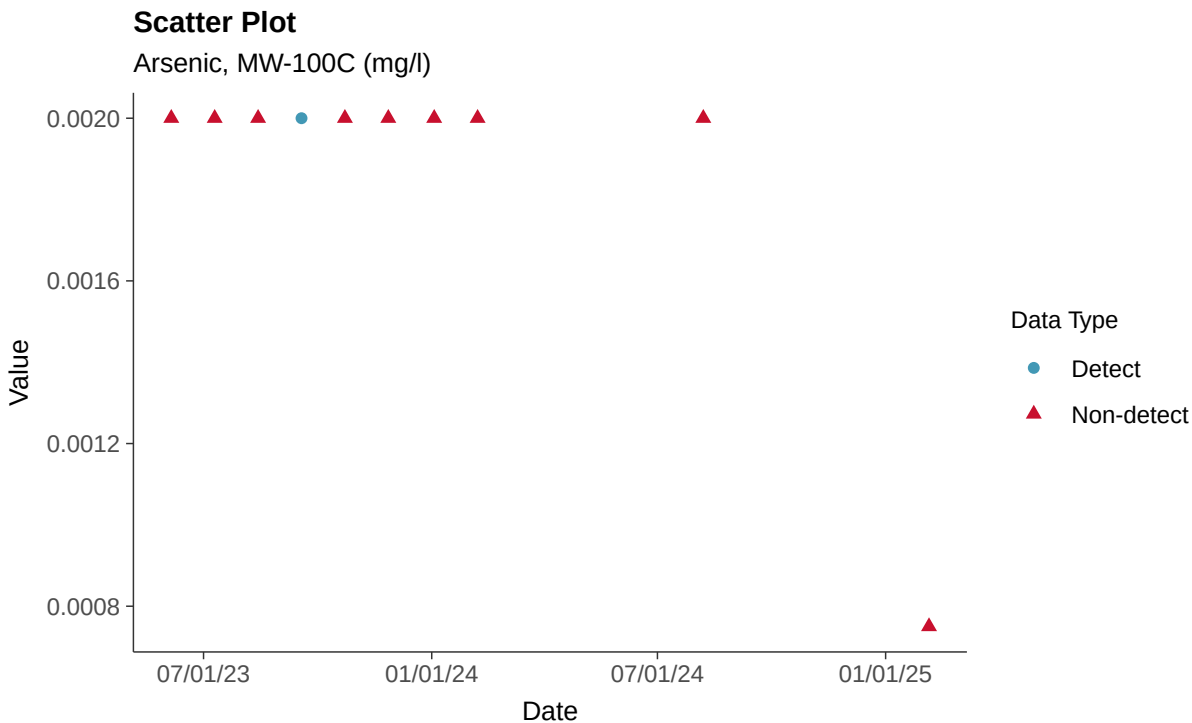


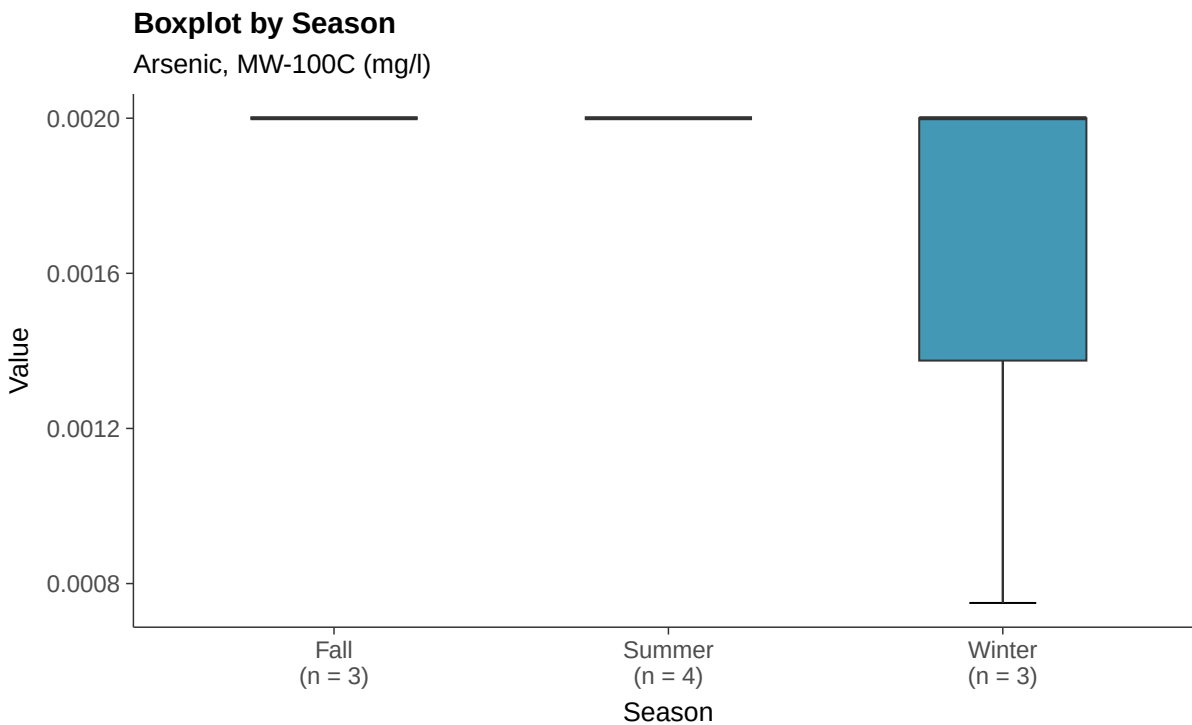
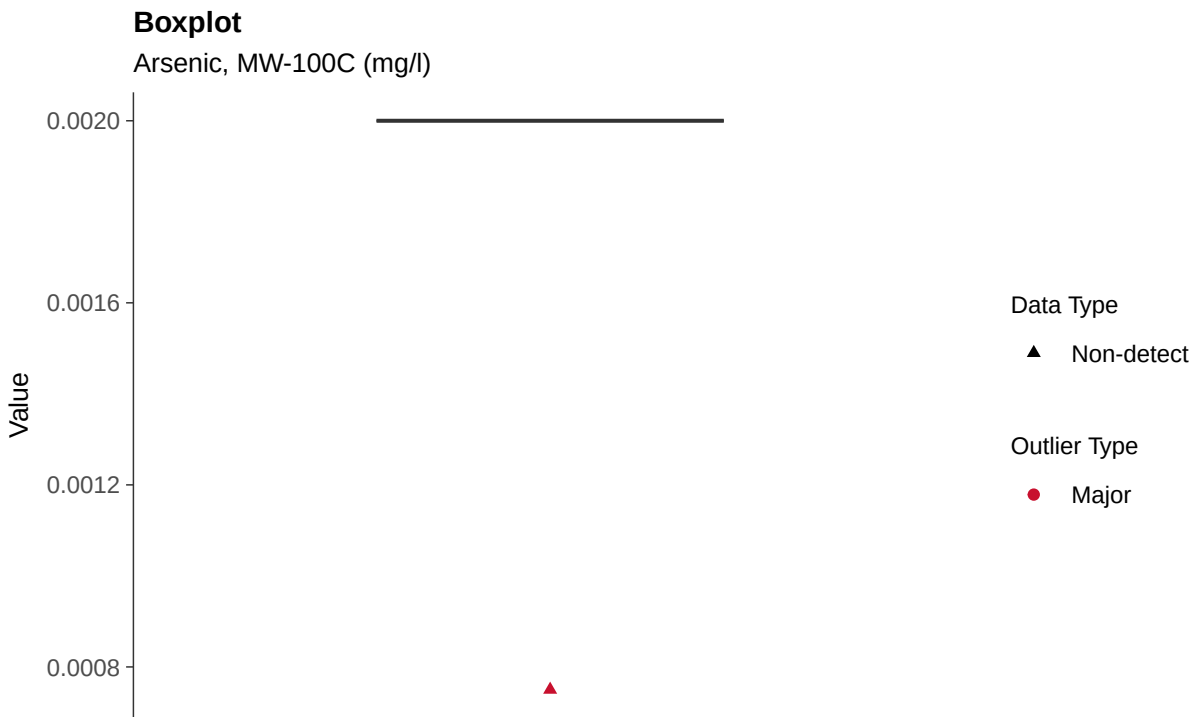




Appendix IV: Arsenic, MW-100C

ID: 18_3_102

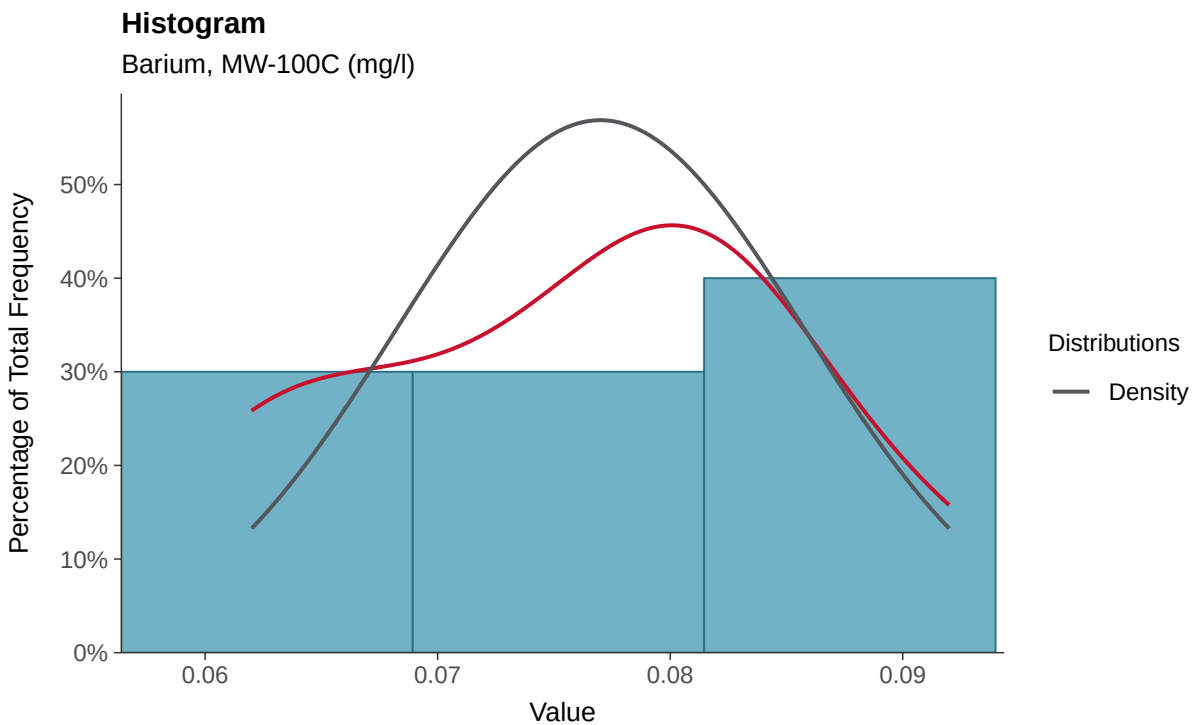
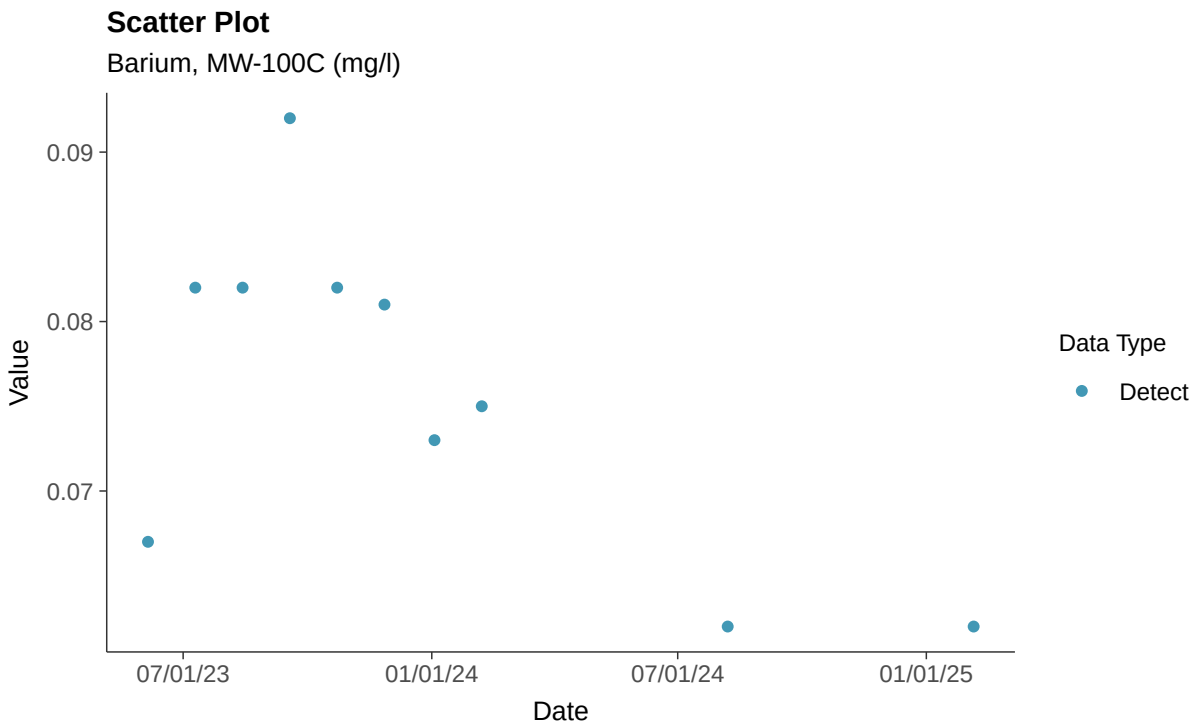


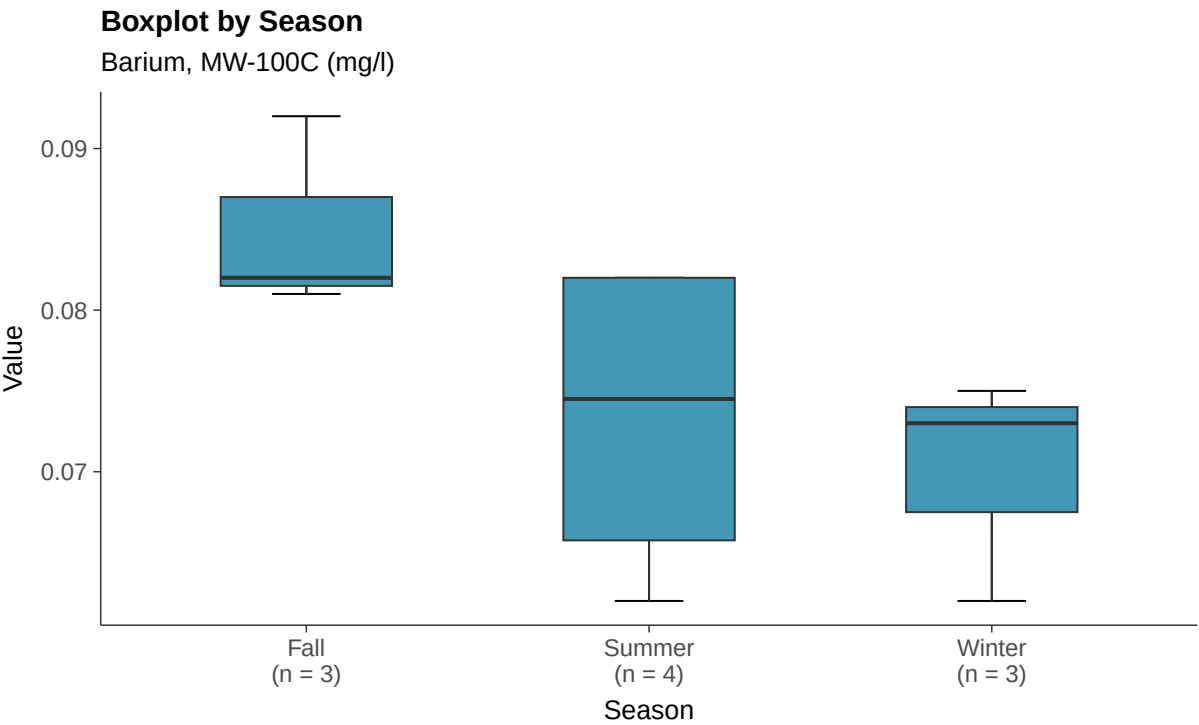
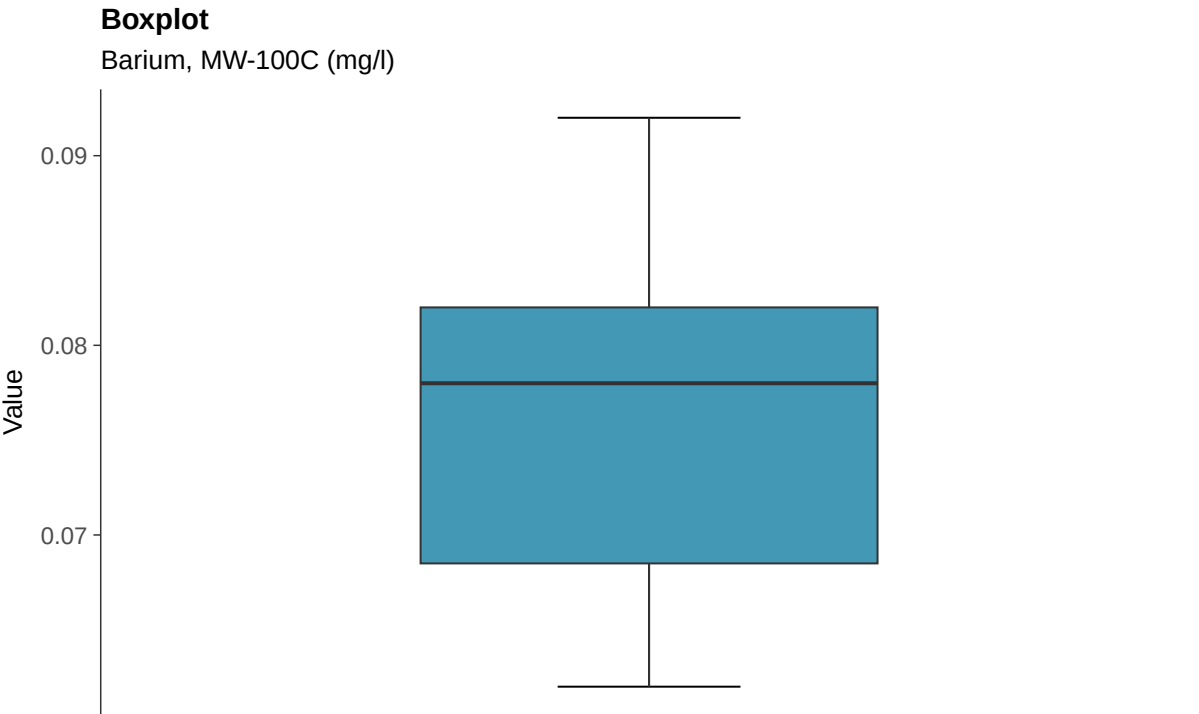


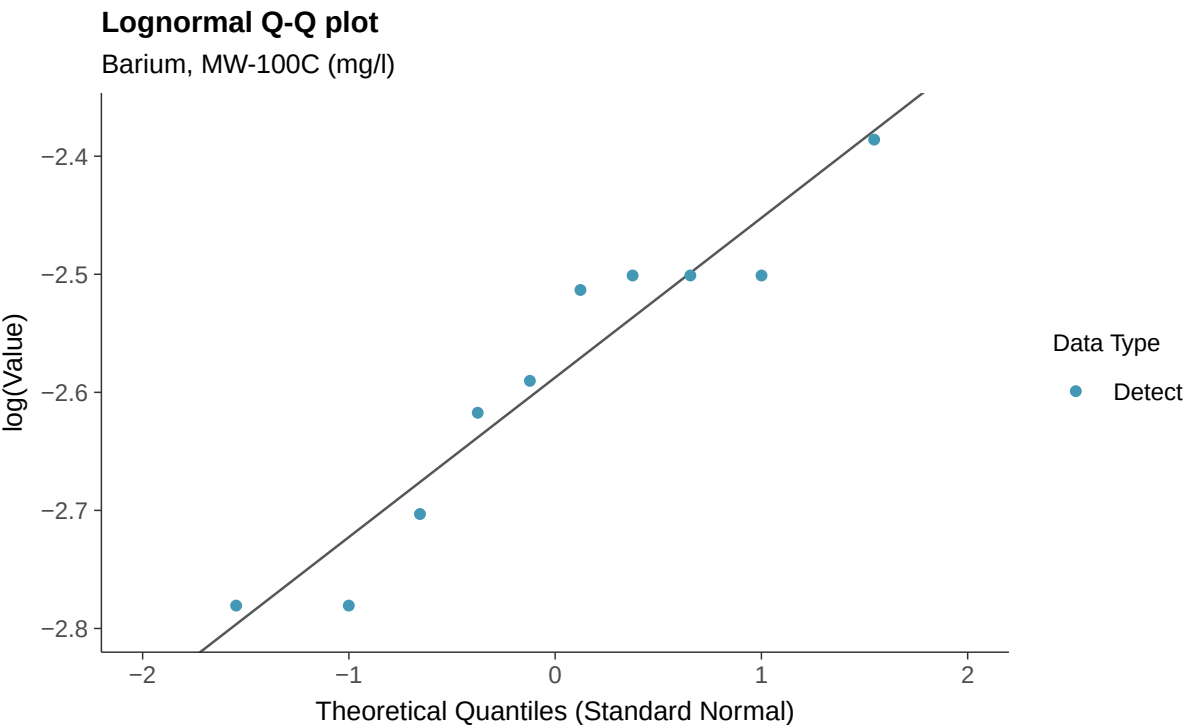
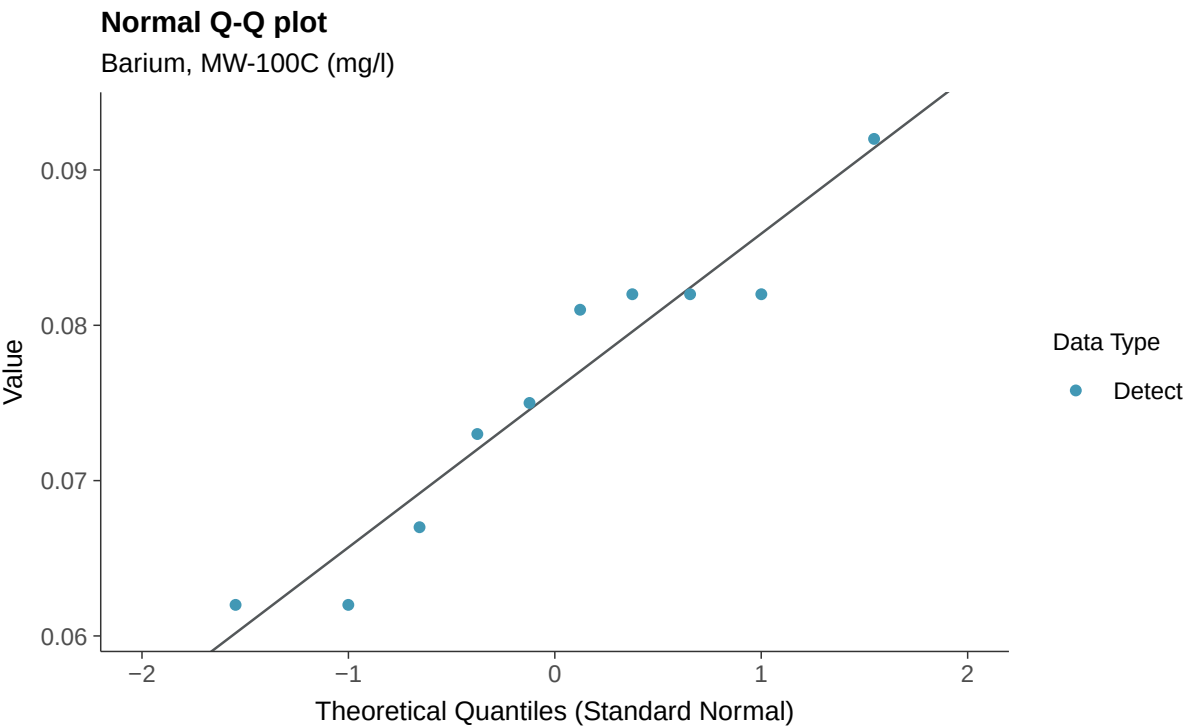


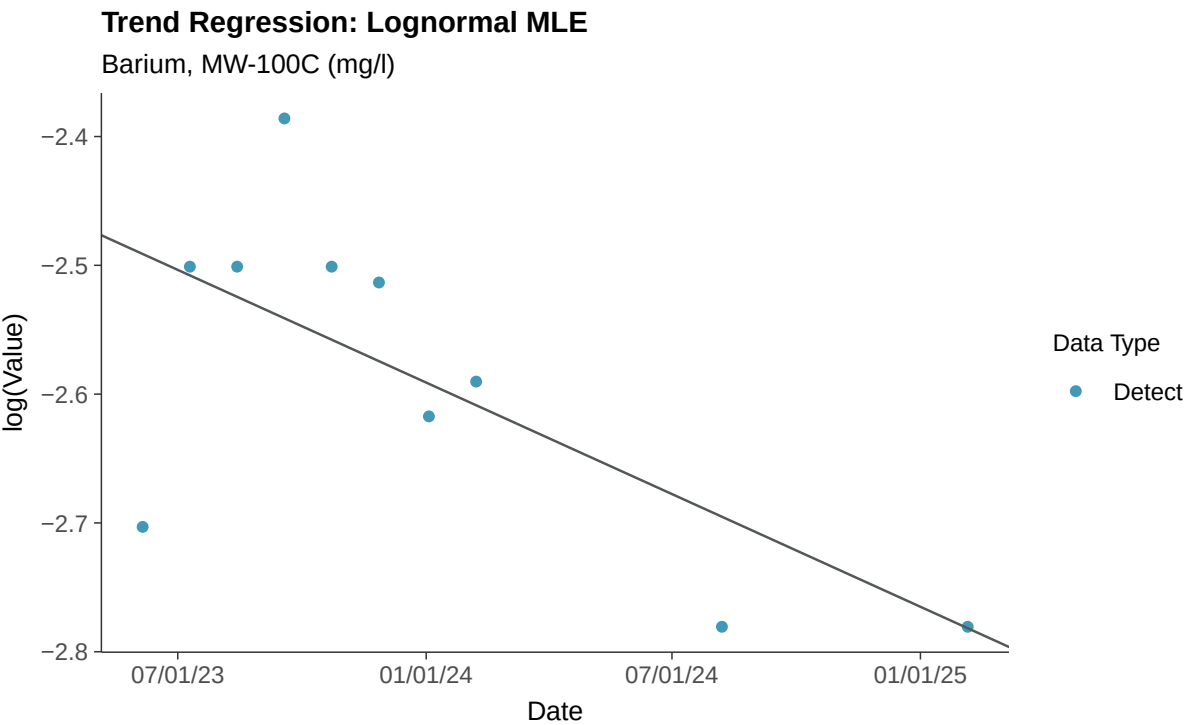
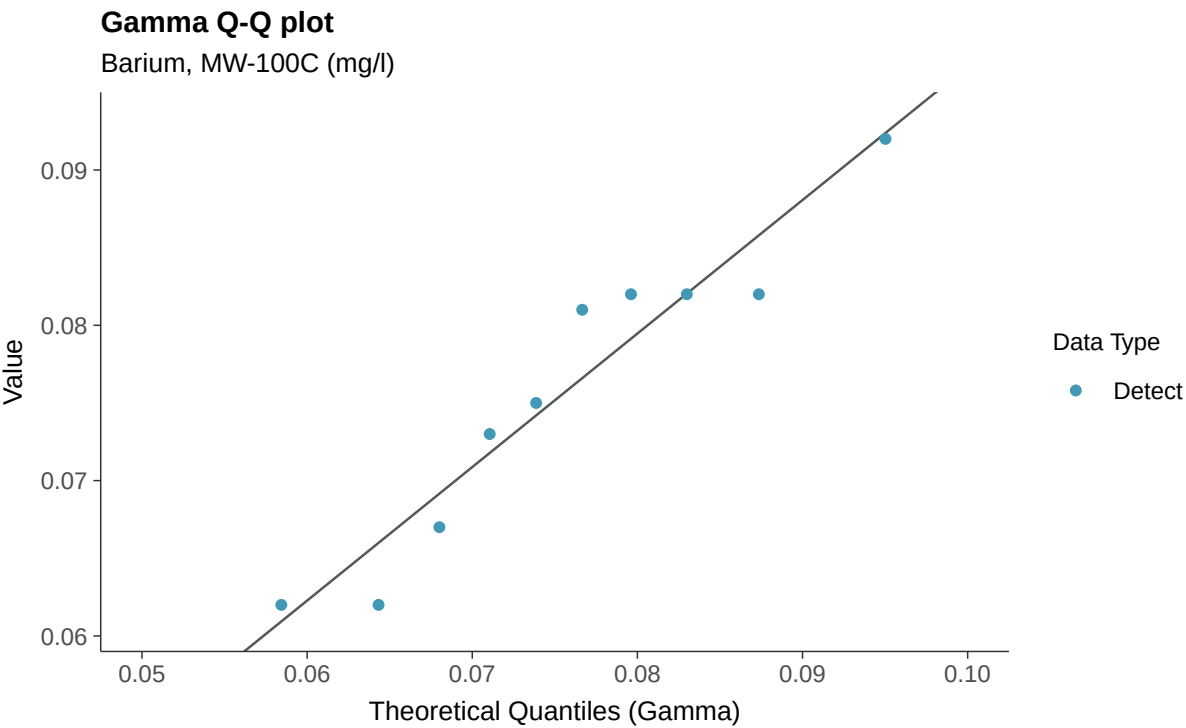
Appendix IV: Barium, MW-100C

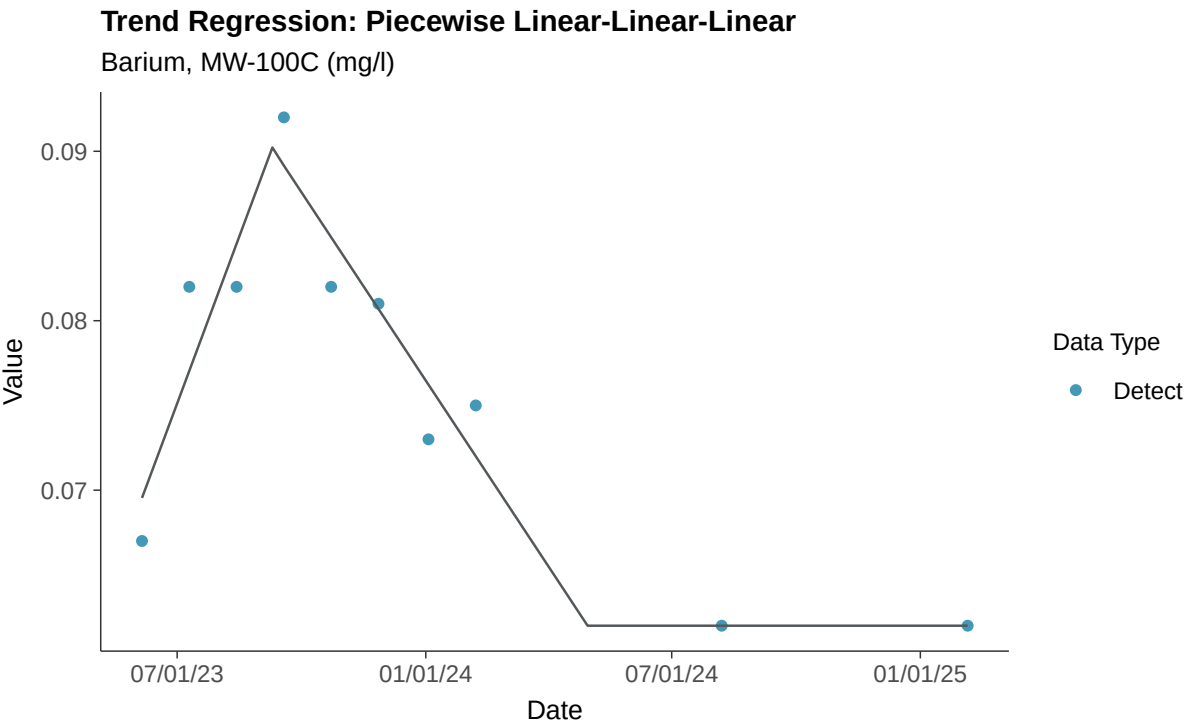
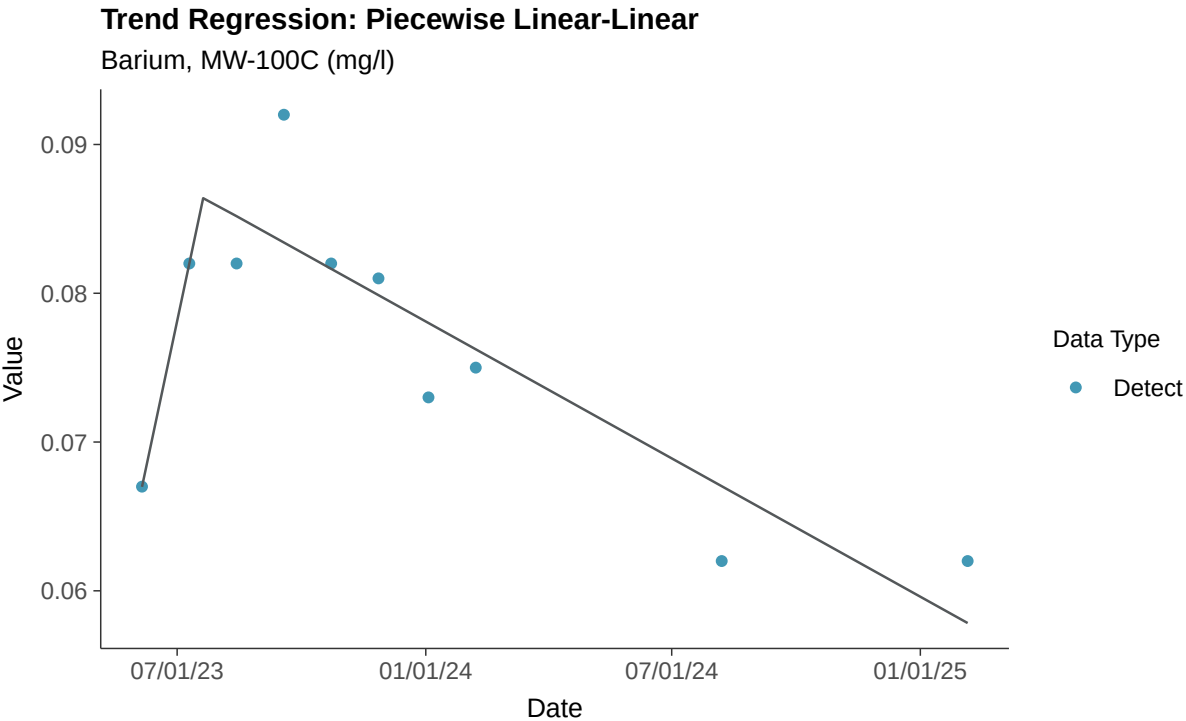
ID: 18_3_103







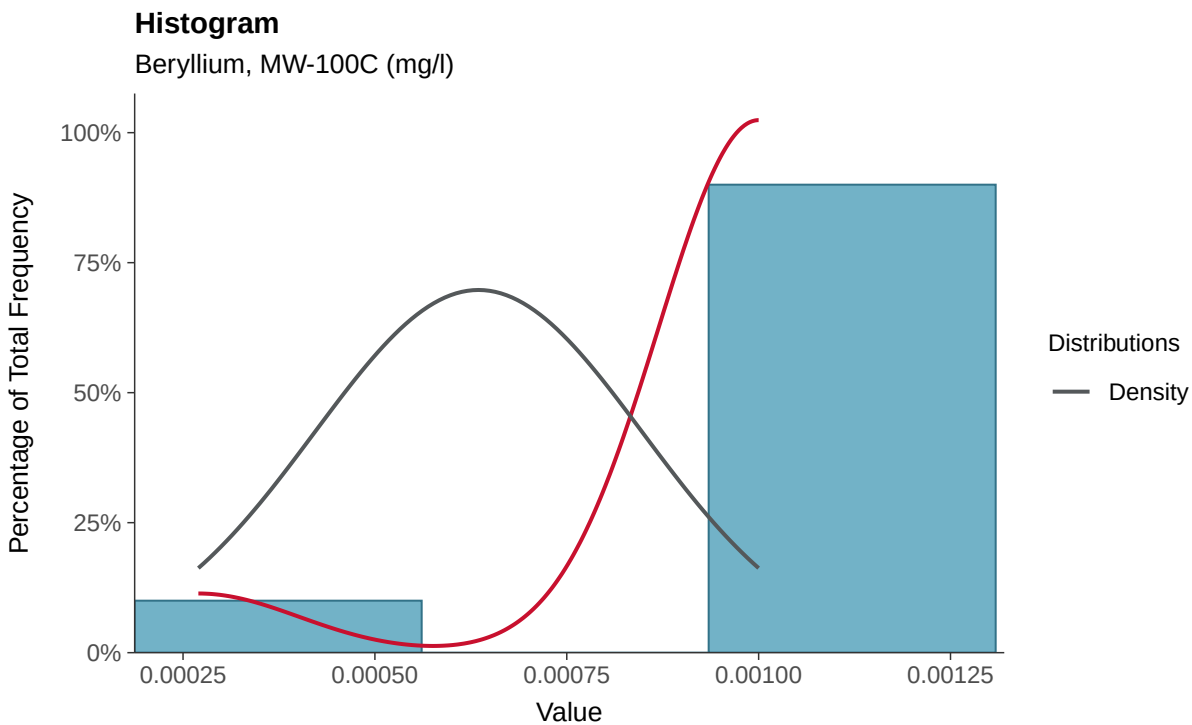
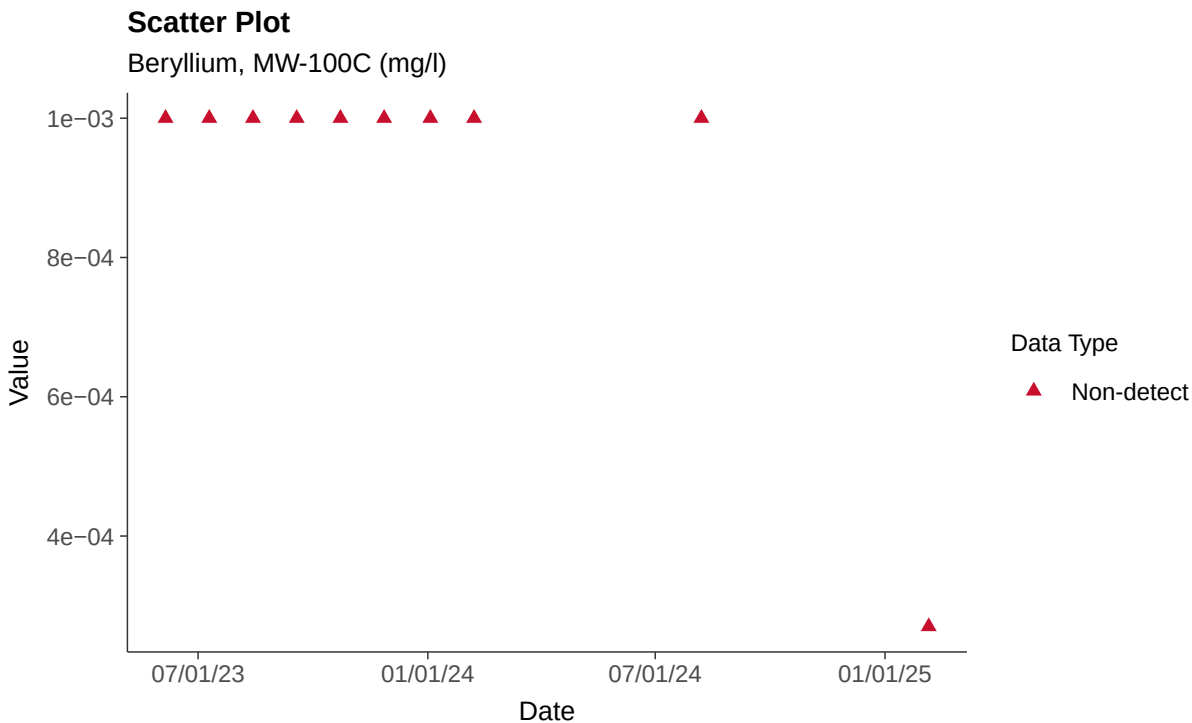


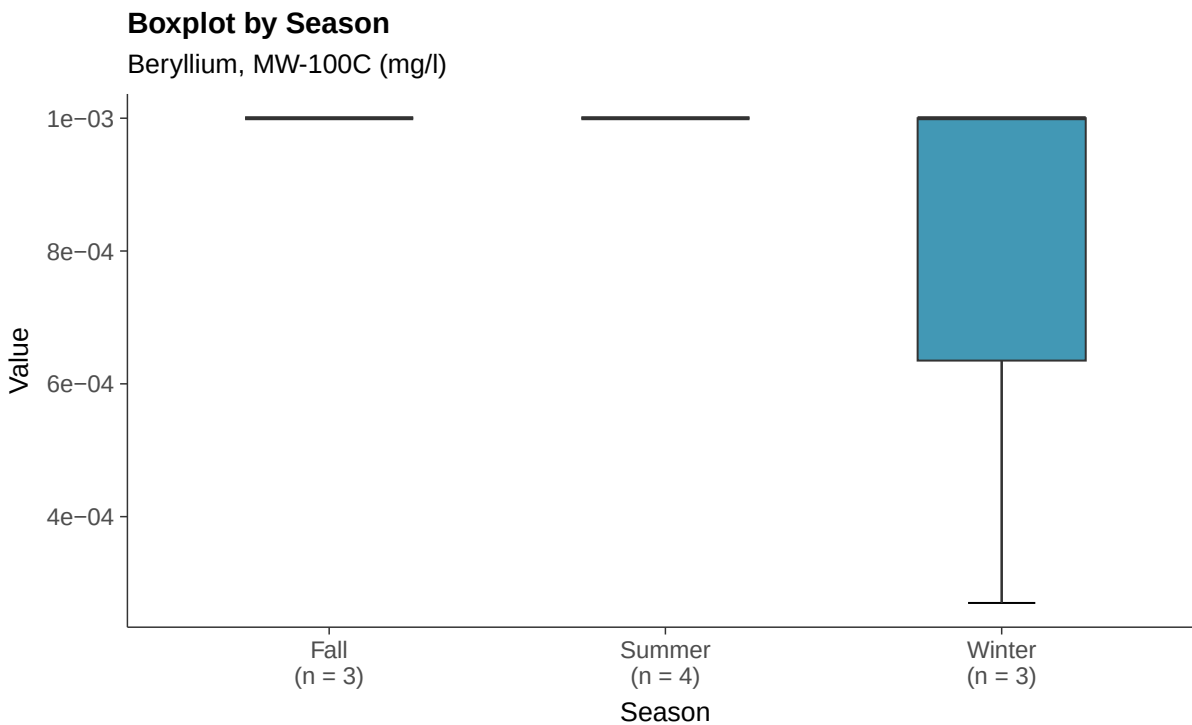
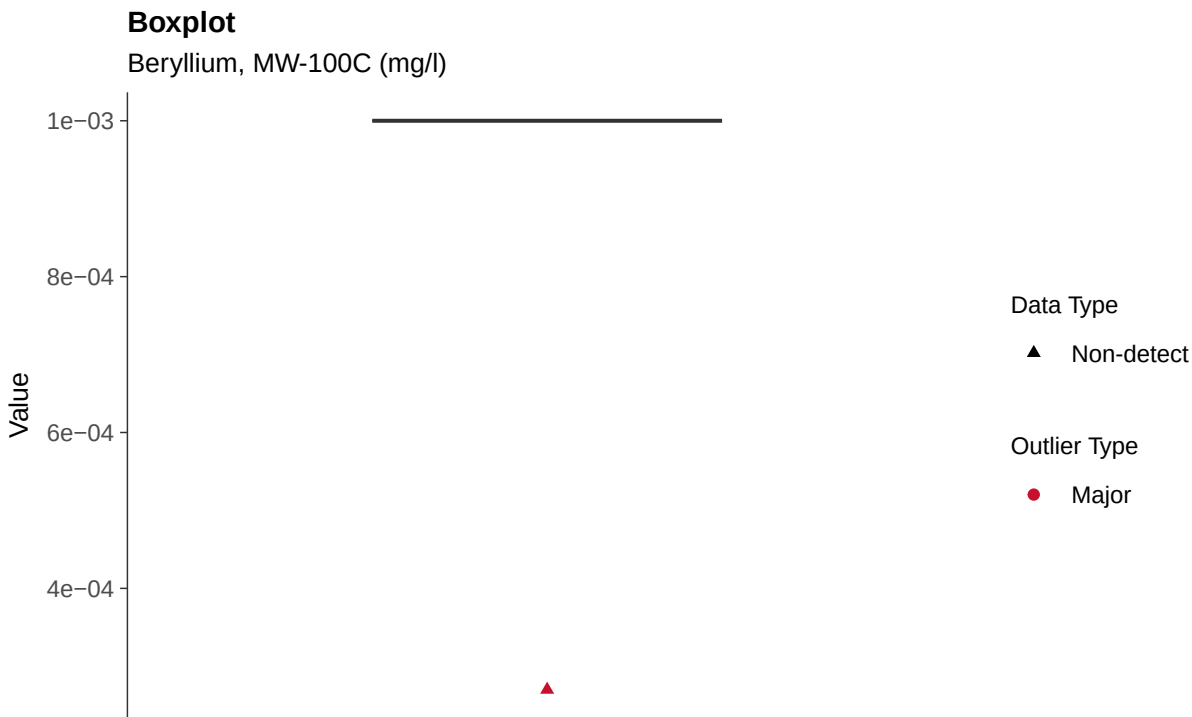




Appendix IV: Beryllium, MW-100C

ID: 18_3_104

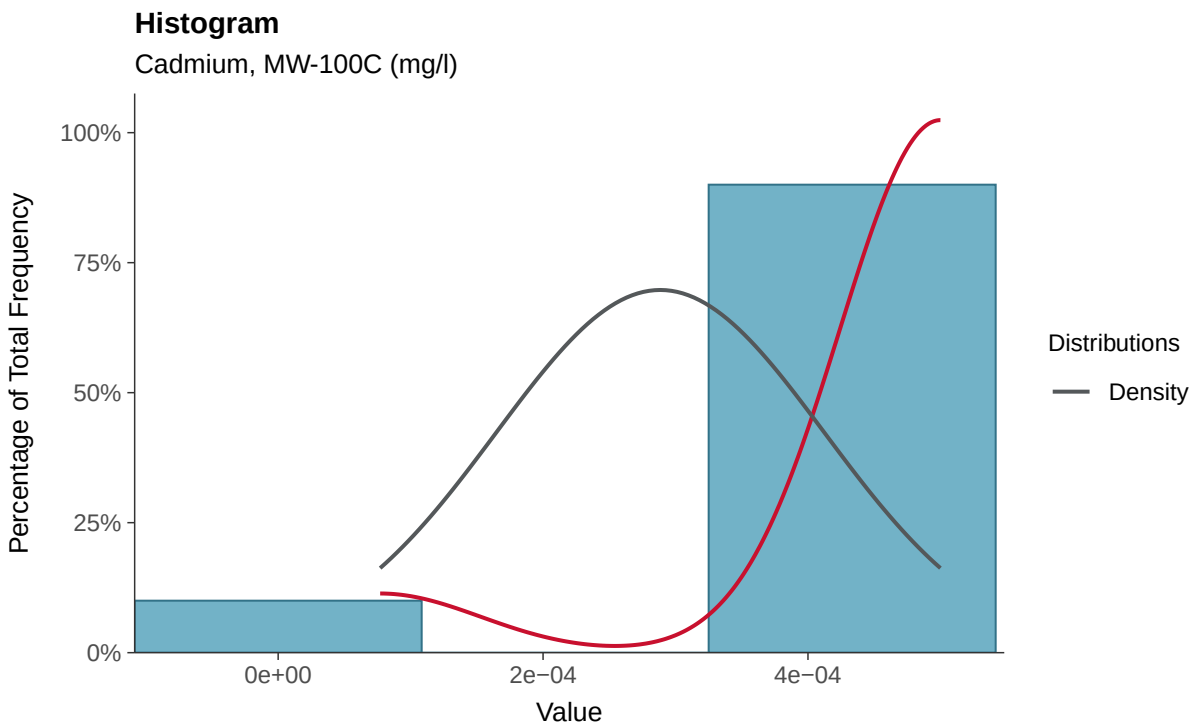
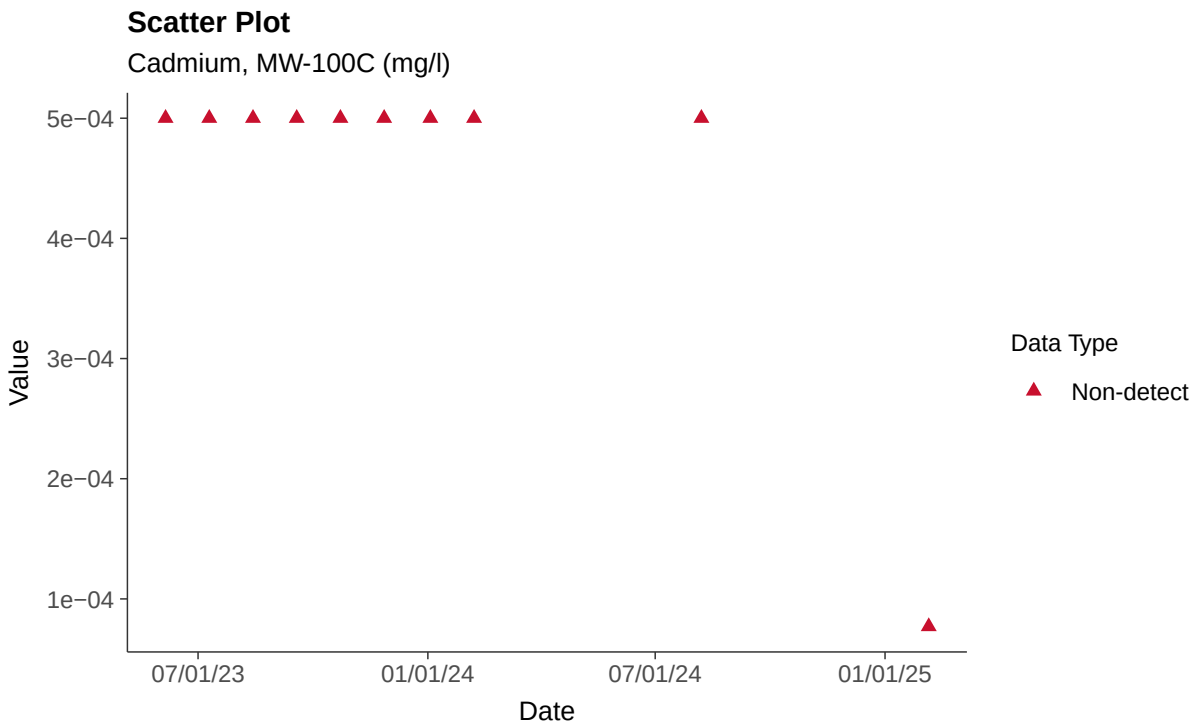


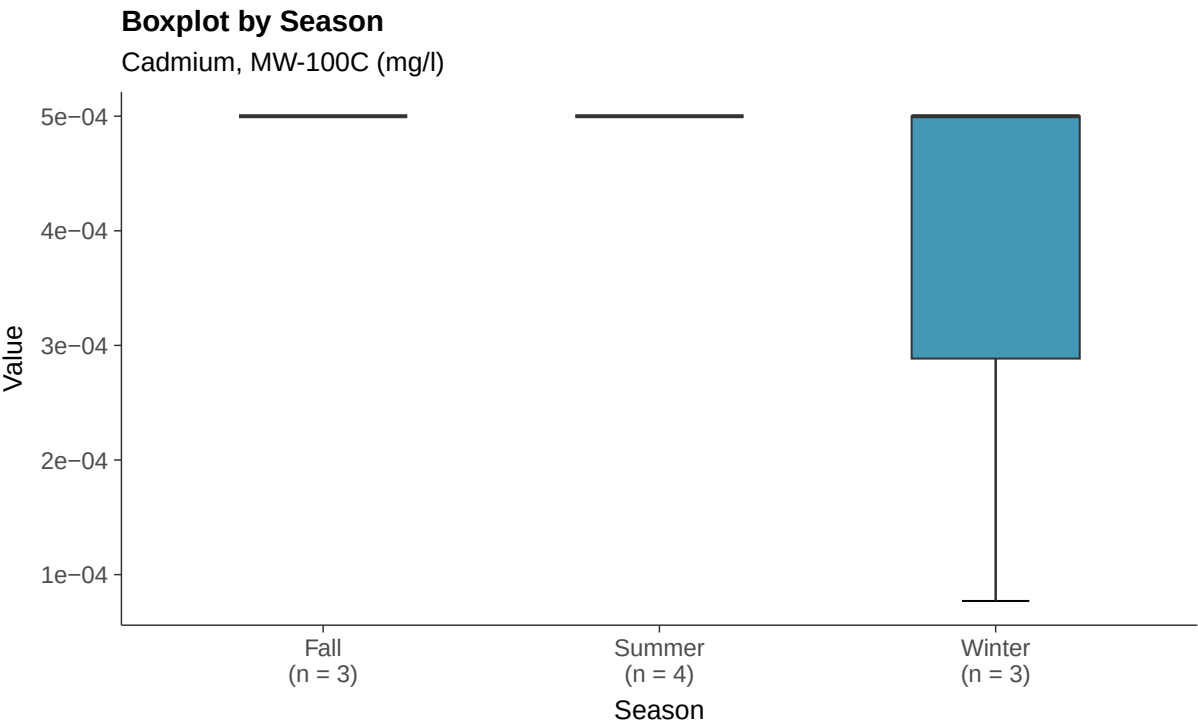
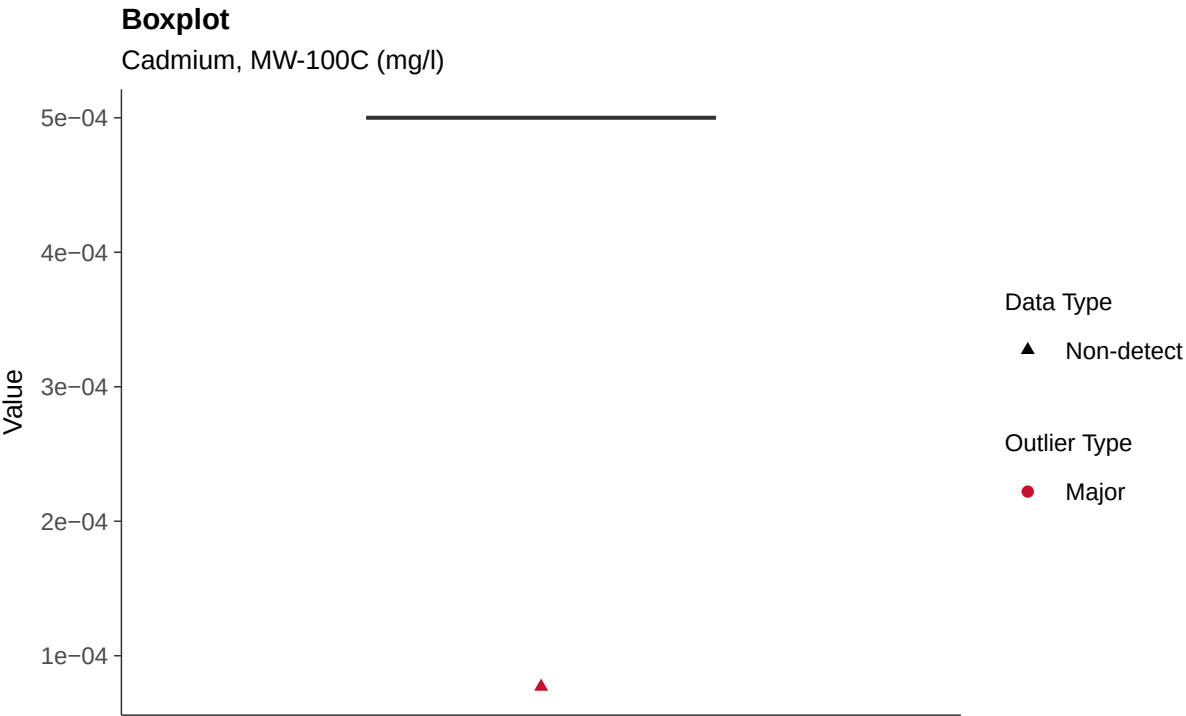




Appendix IV: Cadmium, MW-100C

ID: 18_3_106

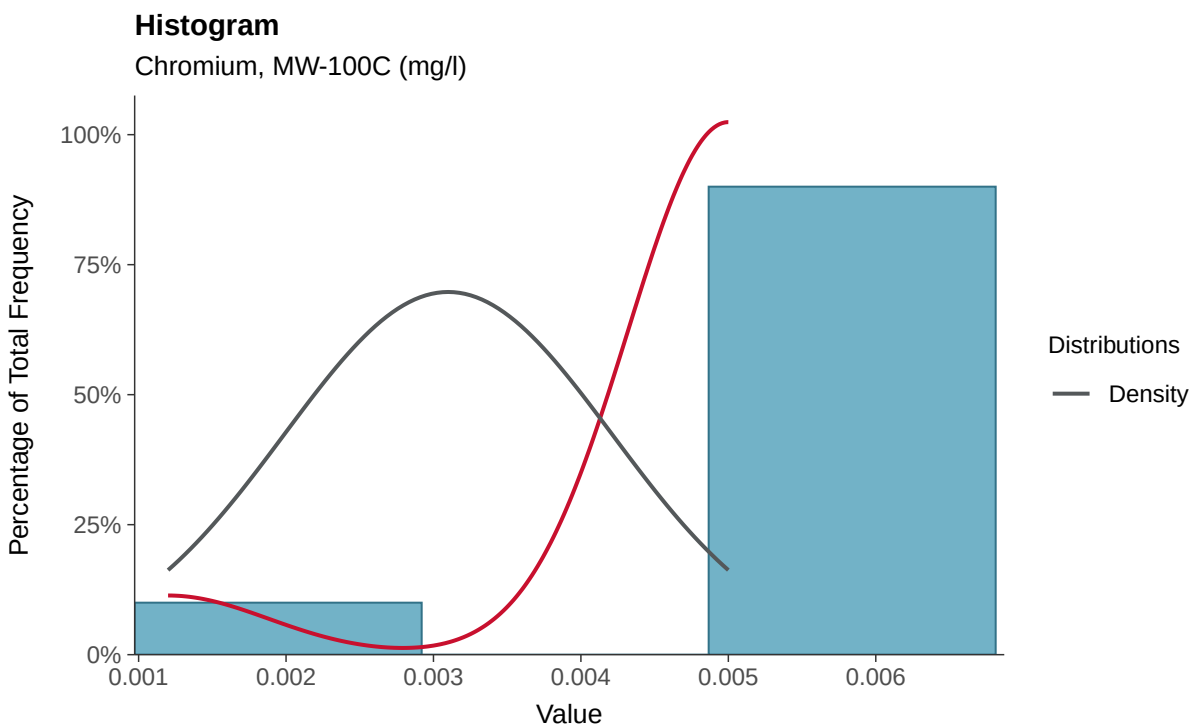
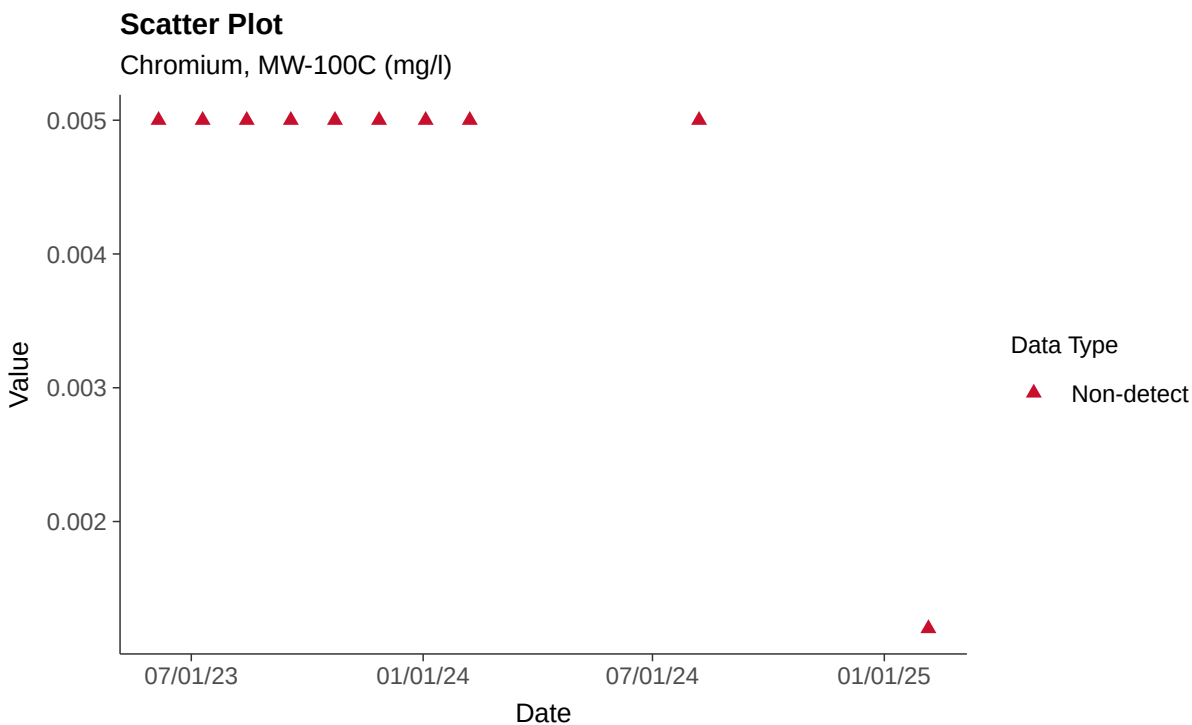


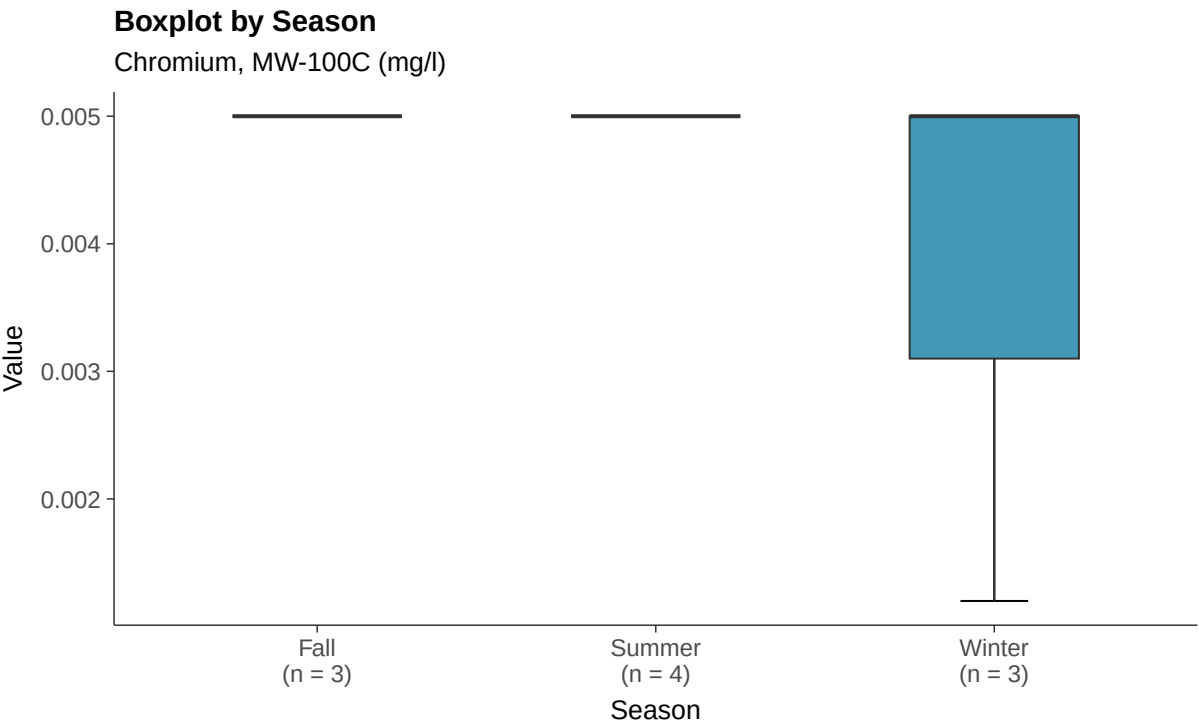
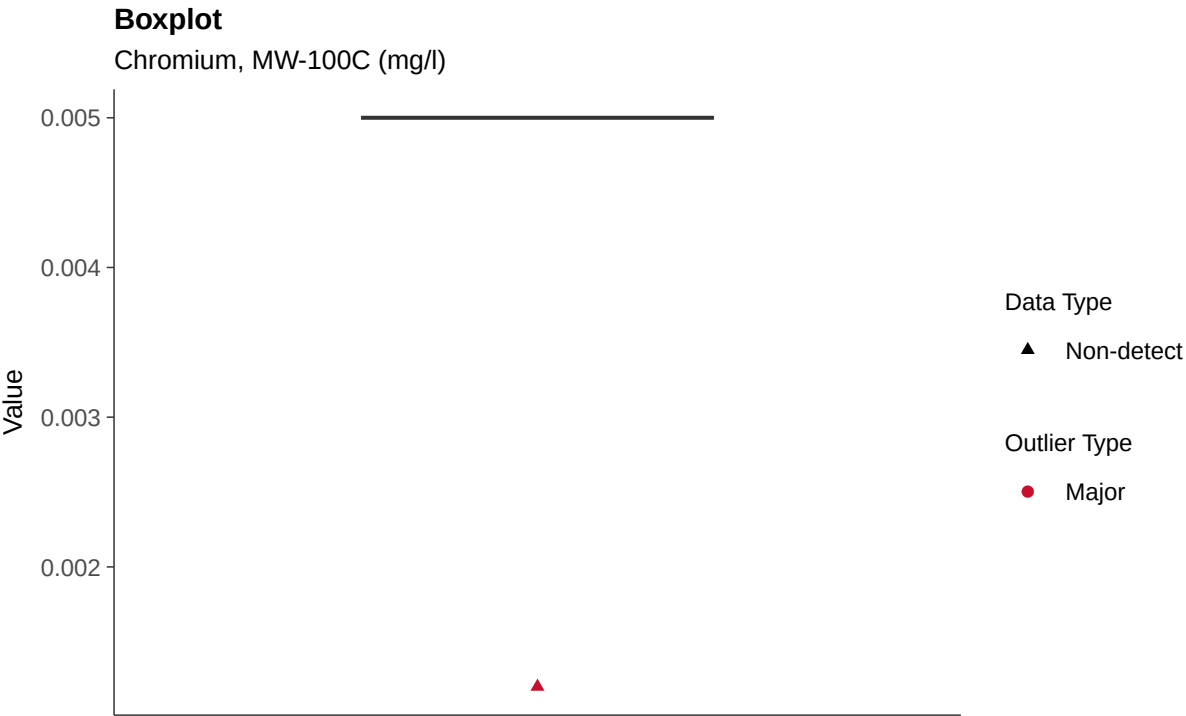




Appendix IV: Chromium, MW-100C

ID: 18_3_109

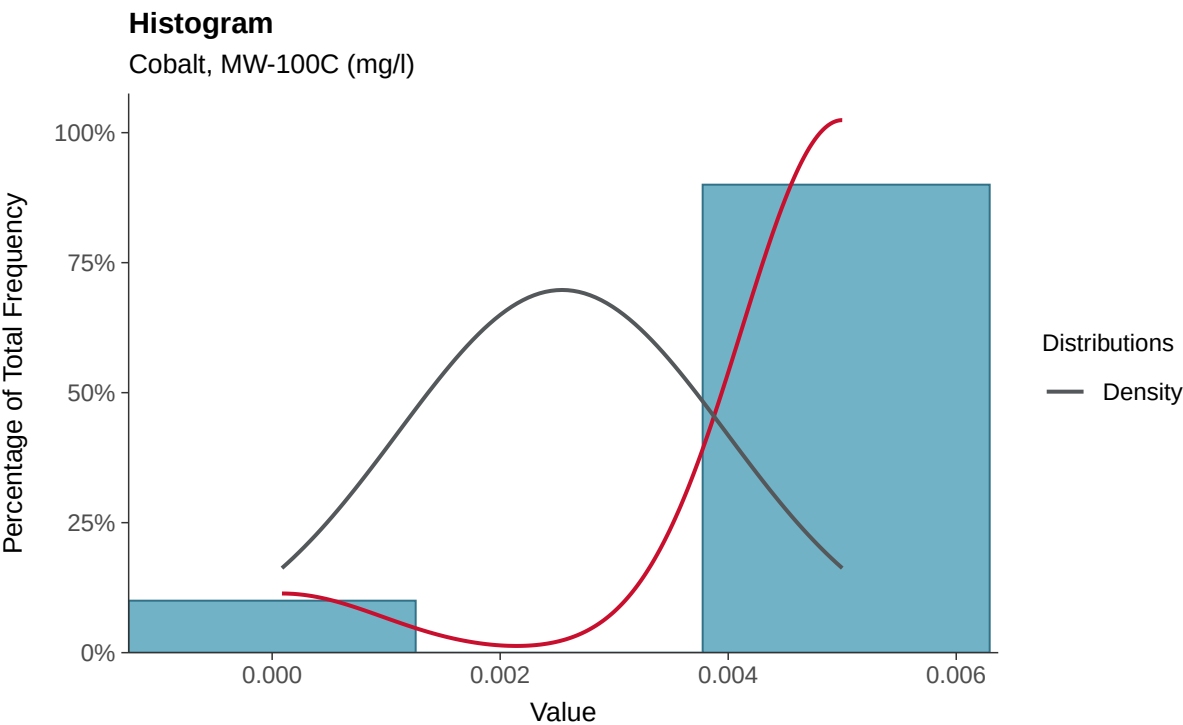
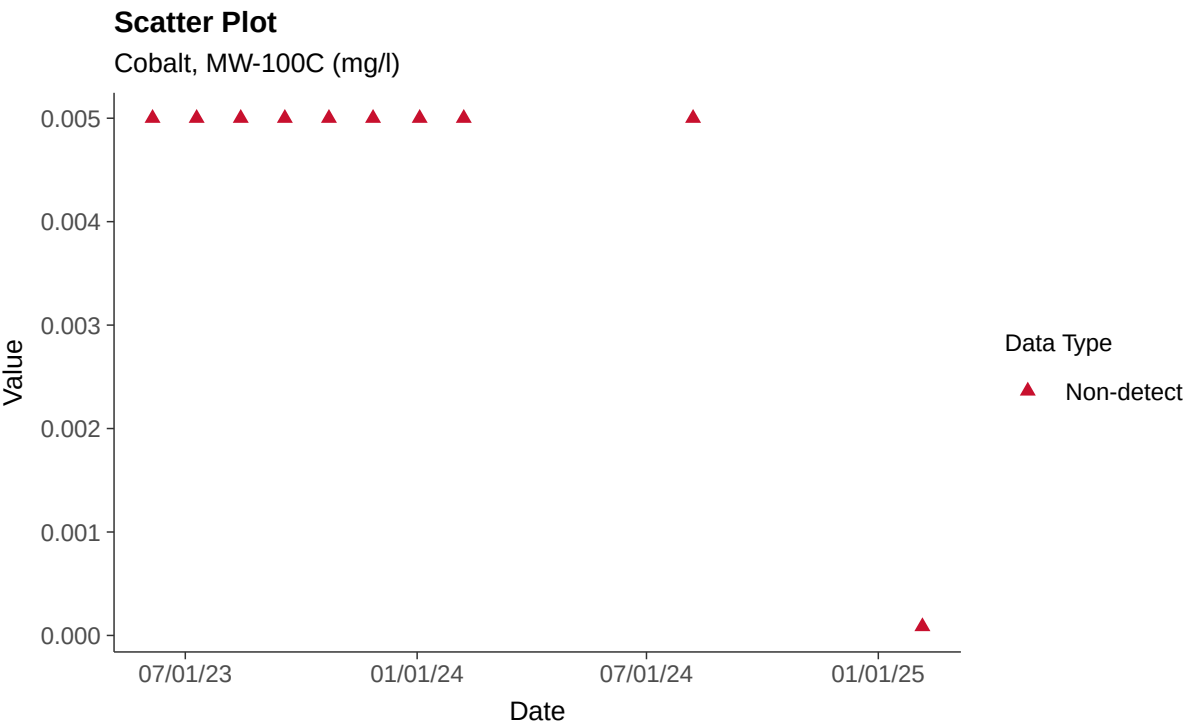


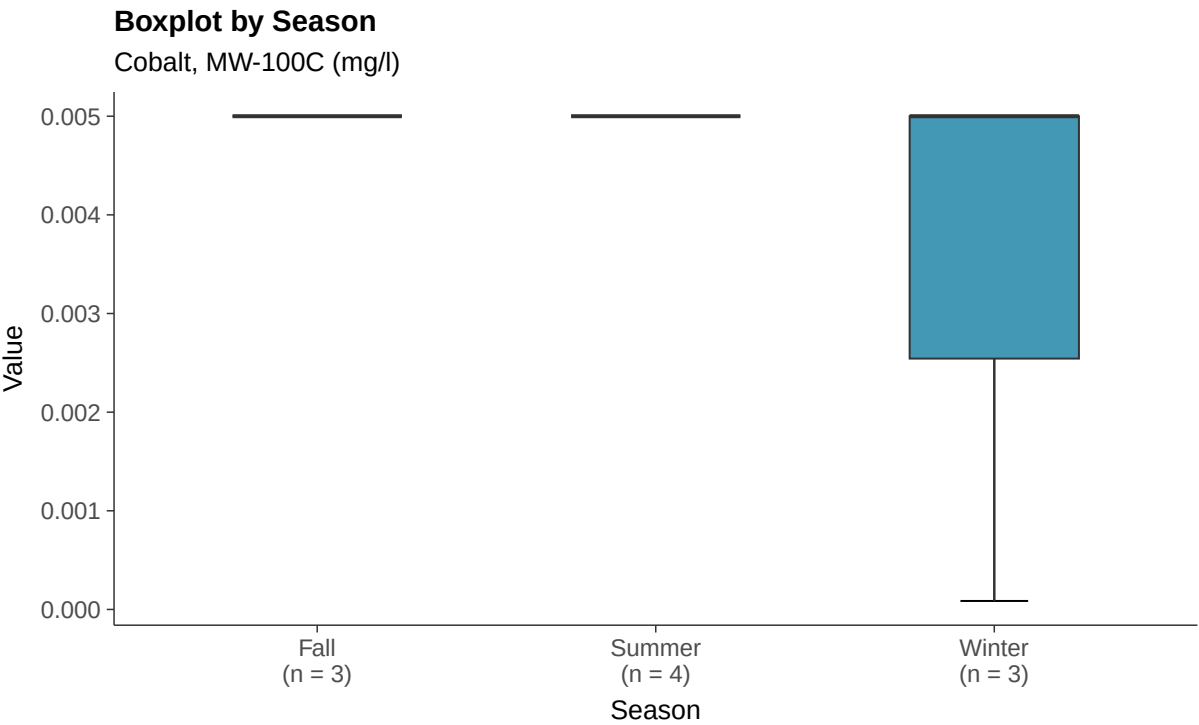
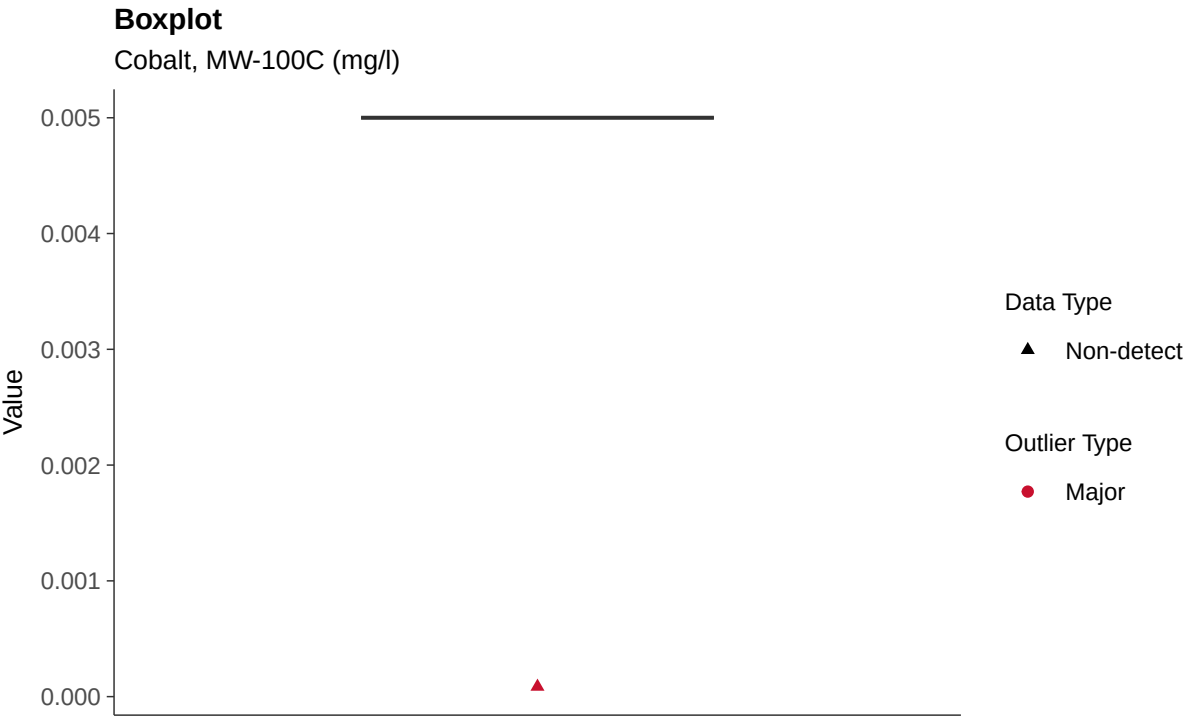




Appendix IV: Cobalt, MW-100C

ID: 18_3_110

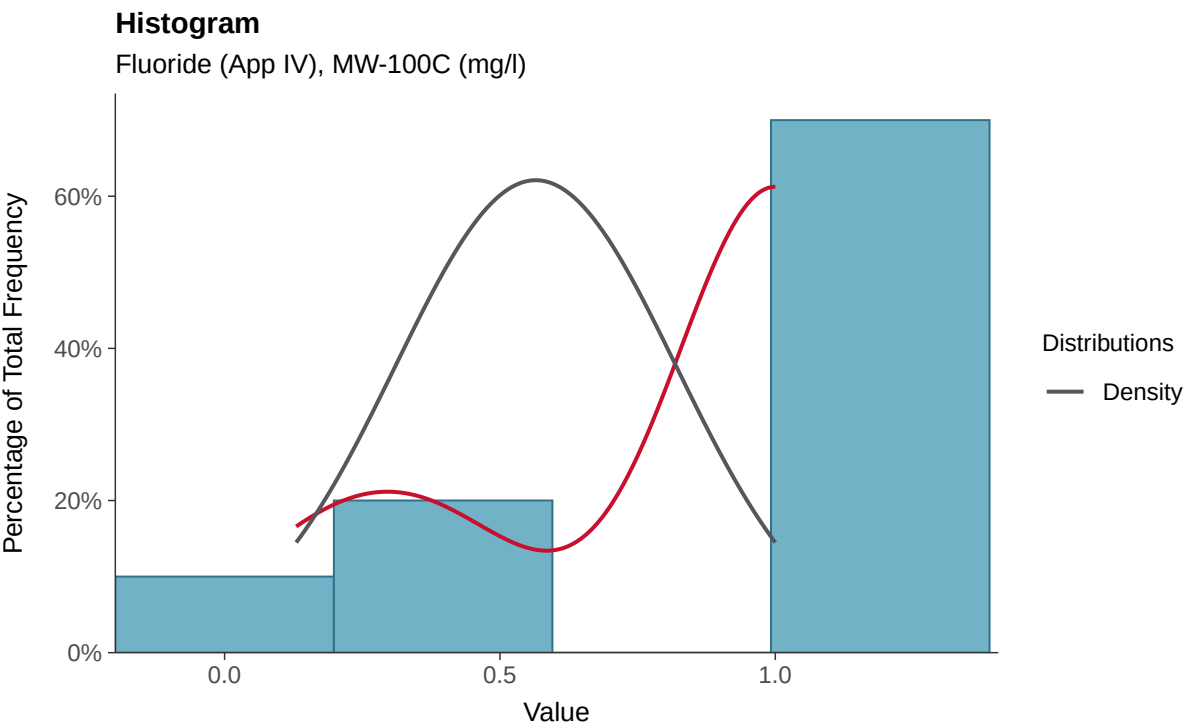
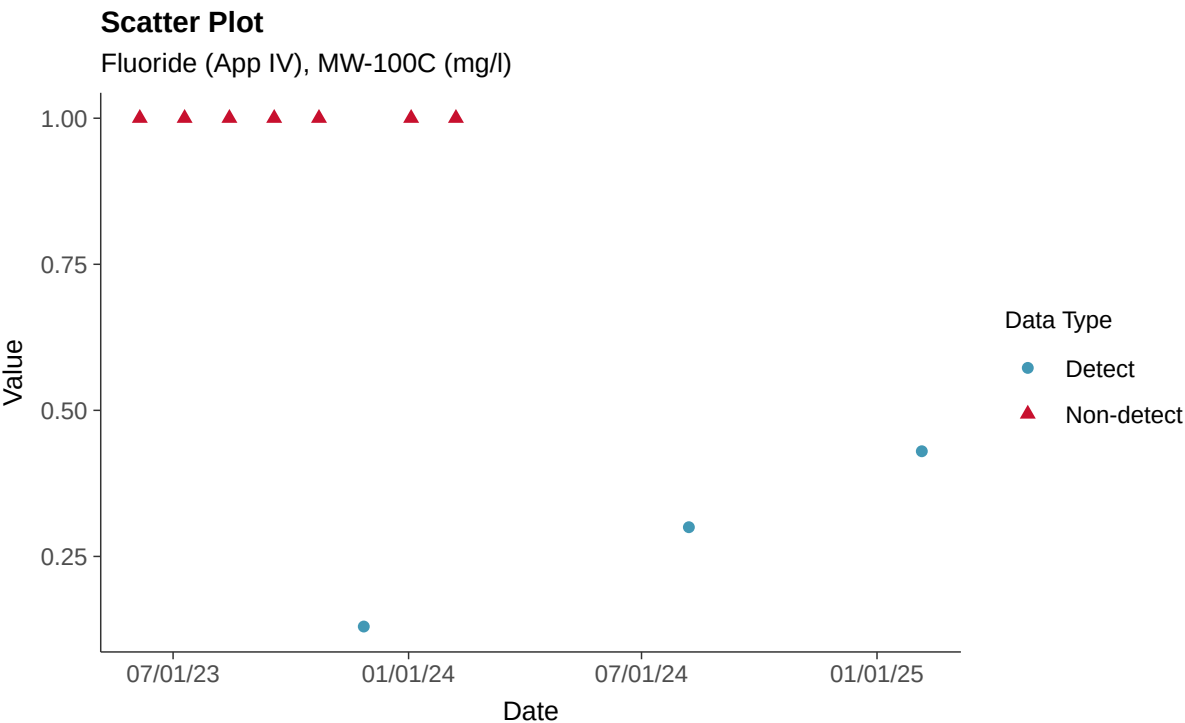


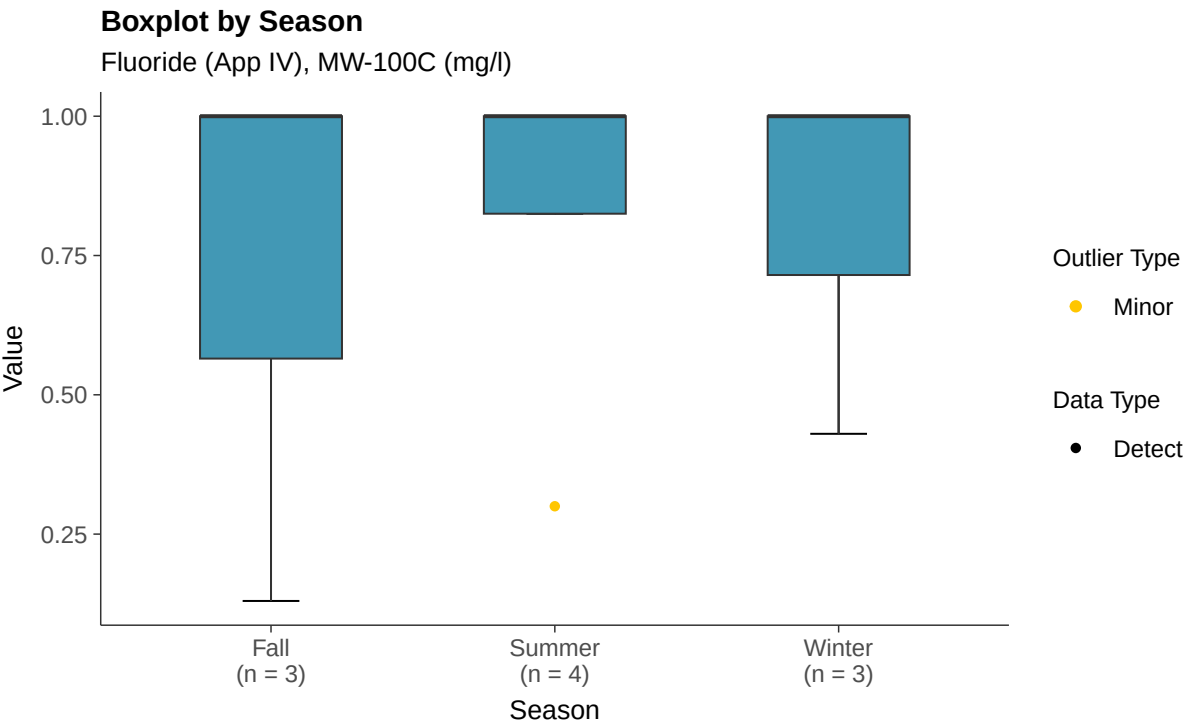
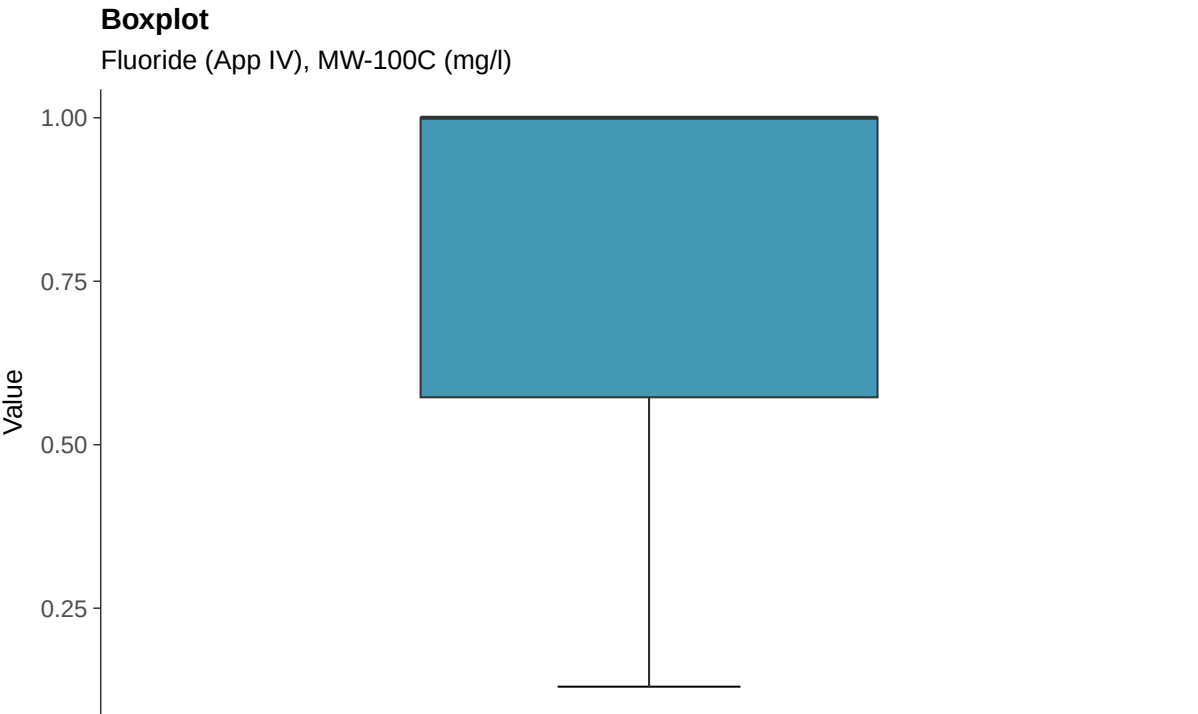




Appendix IV: Fluoride (App IV), MW-100C

ID: 18_3_113

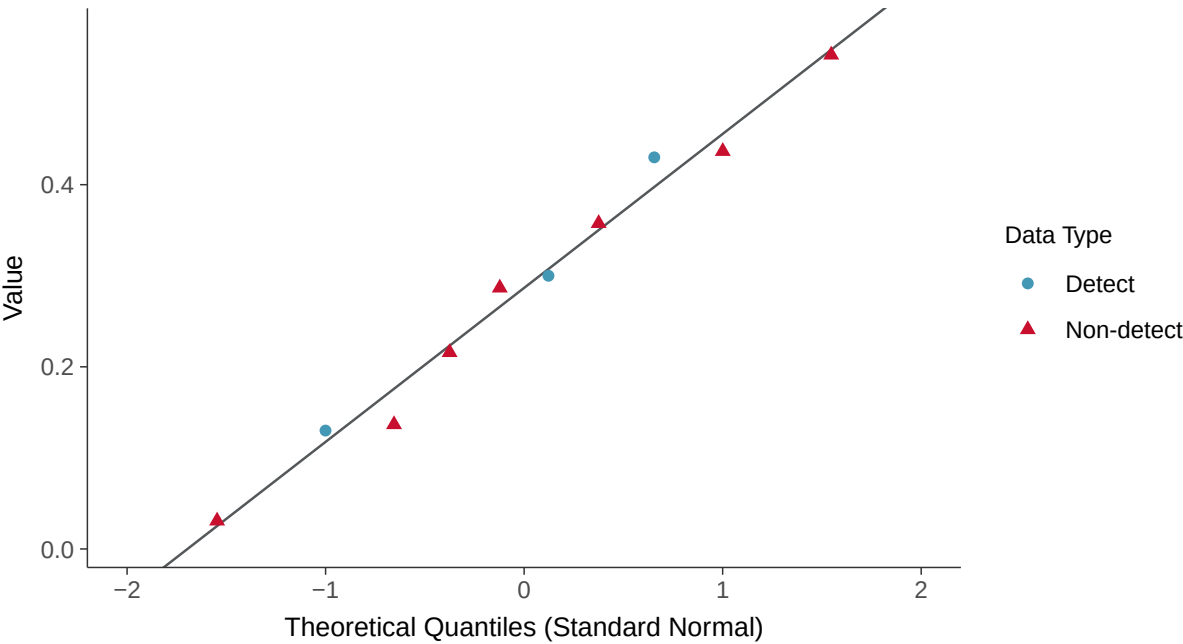






Normal Q-Q plot using ROS Imputed Estimates

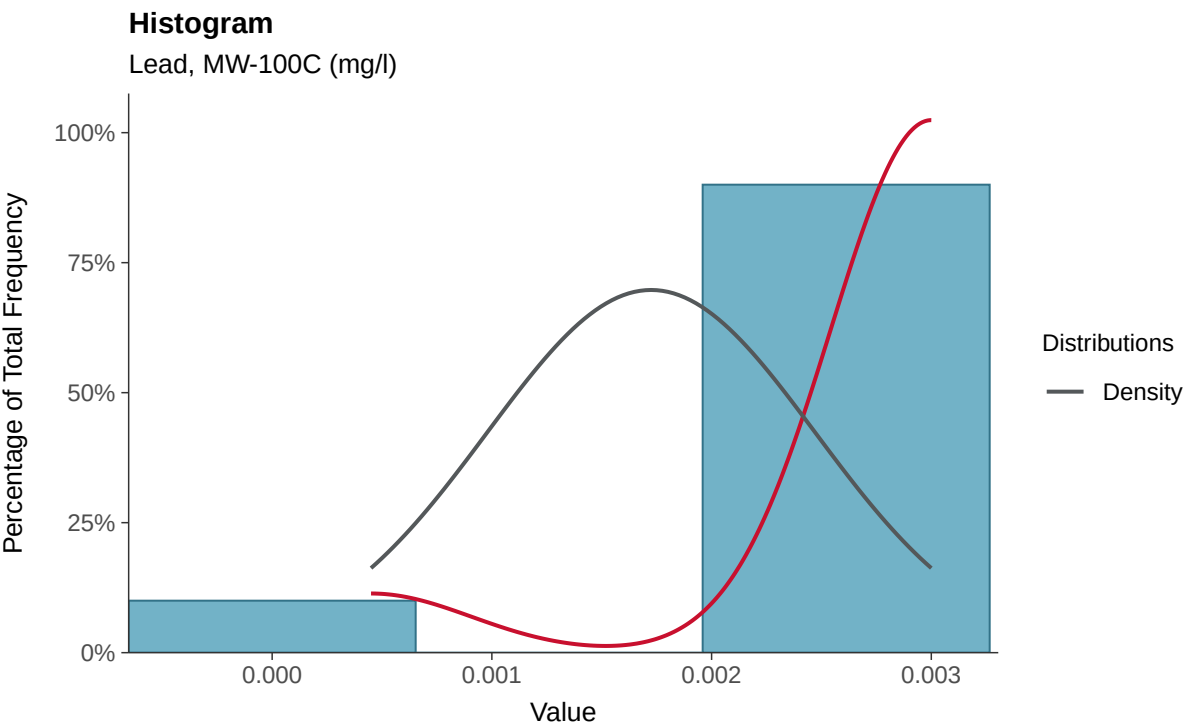
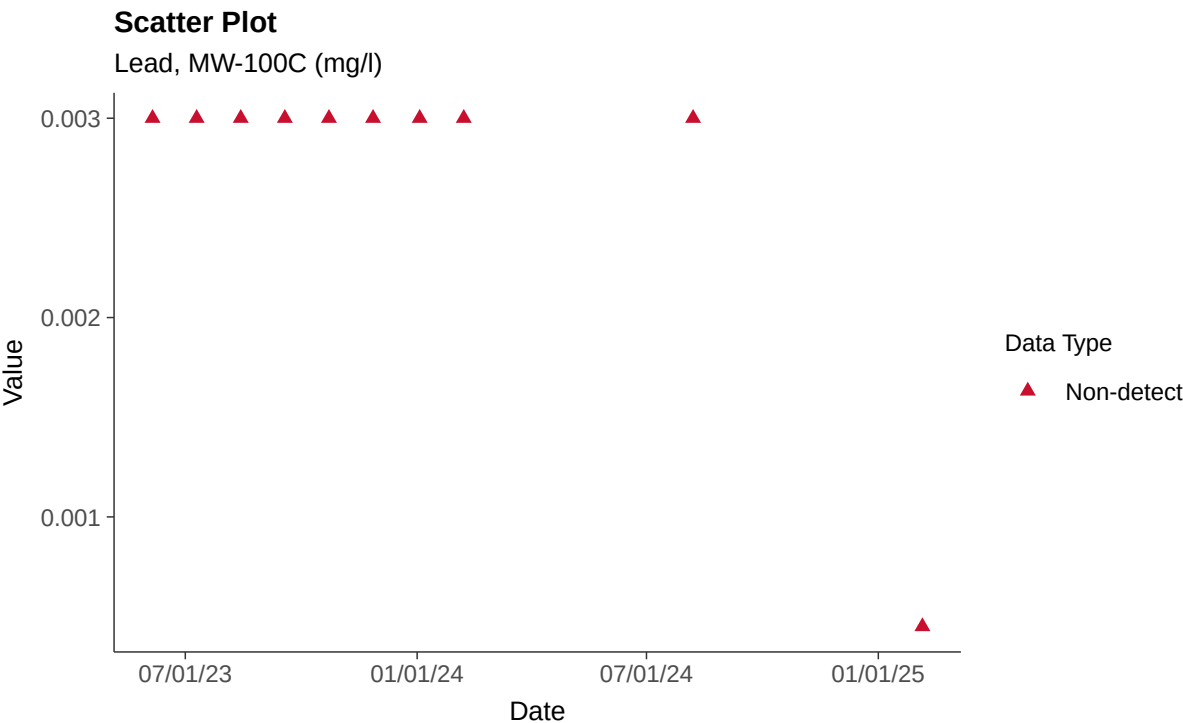
Fluoride (App IV), MW-100C (mg/l)

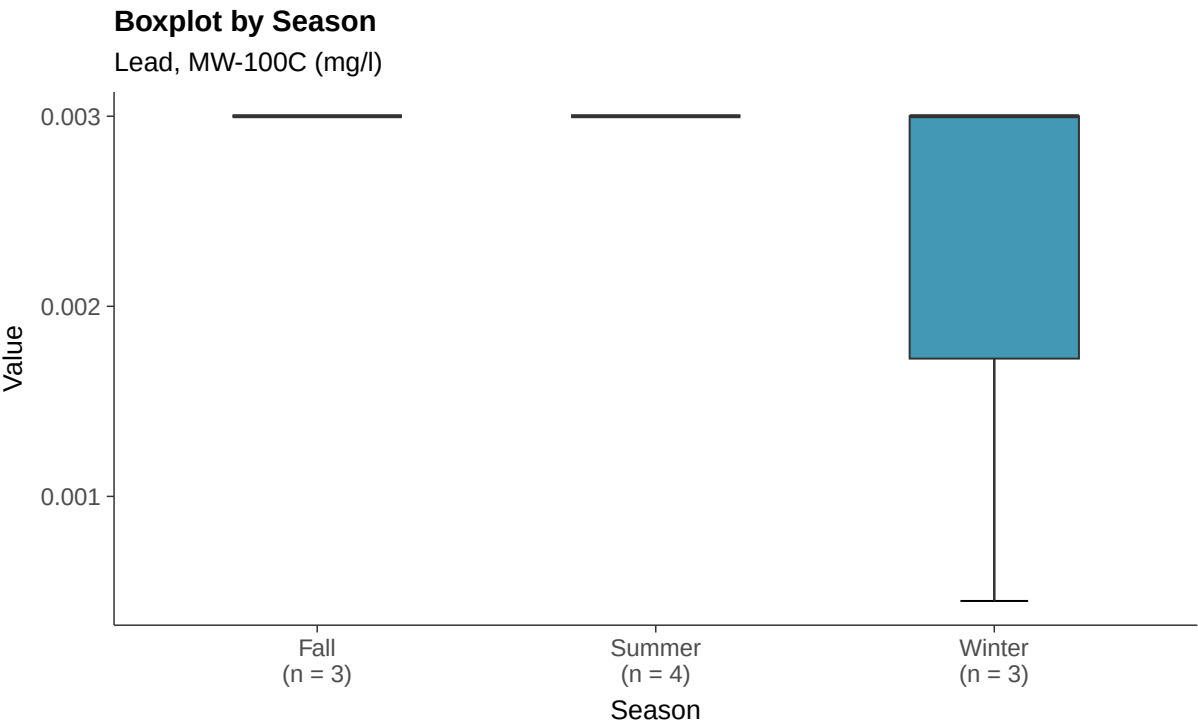
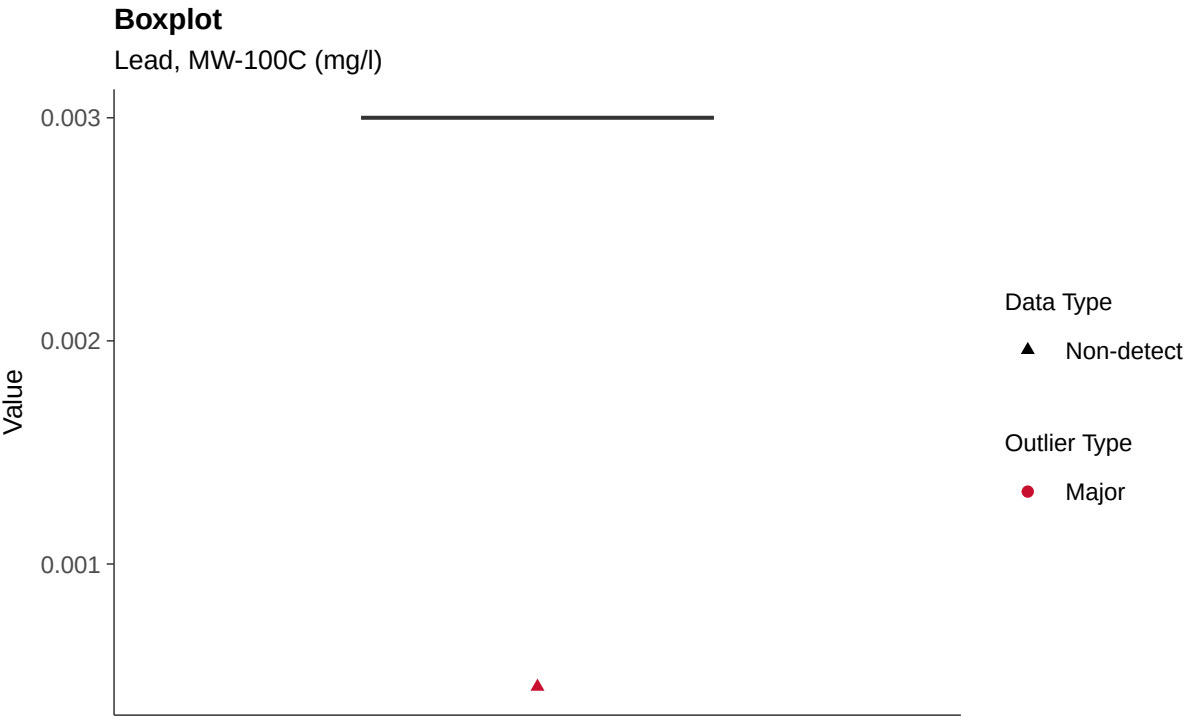




Appendix IV: Lead, MW-100C

ID: 18_3_115

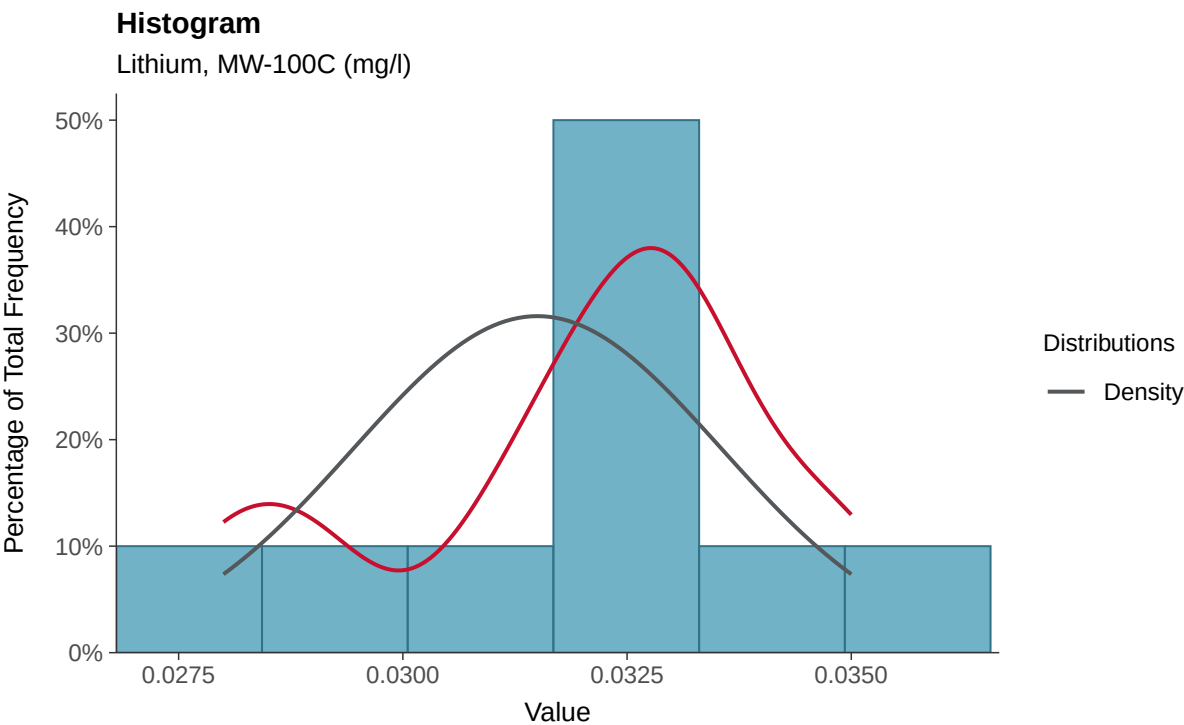
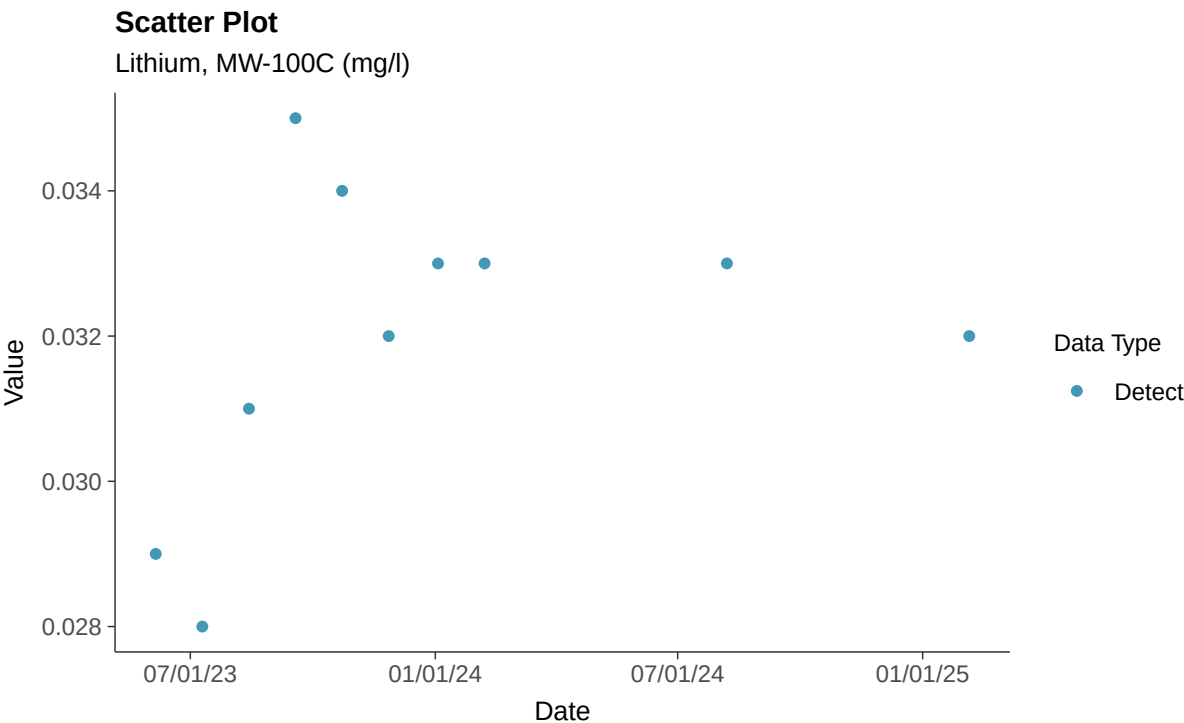


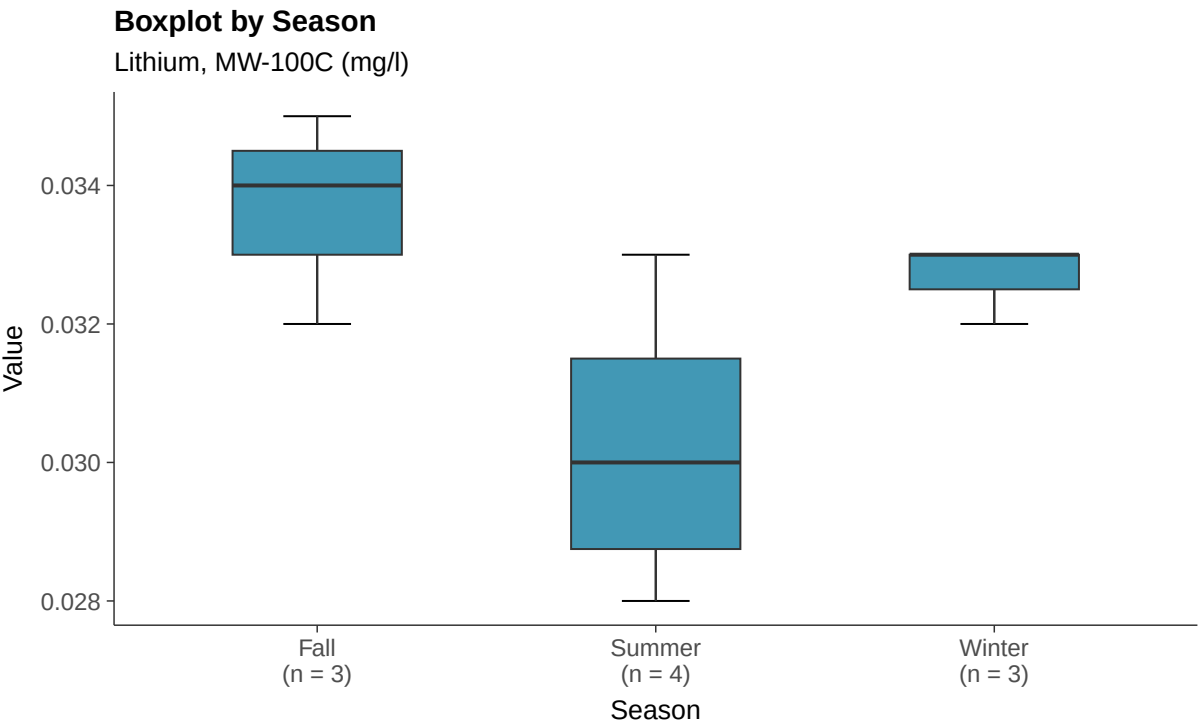
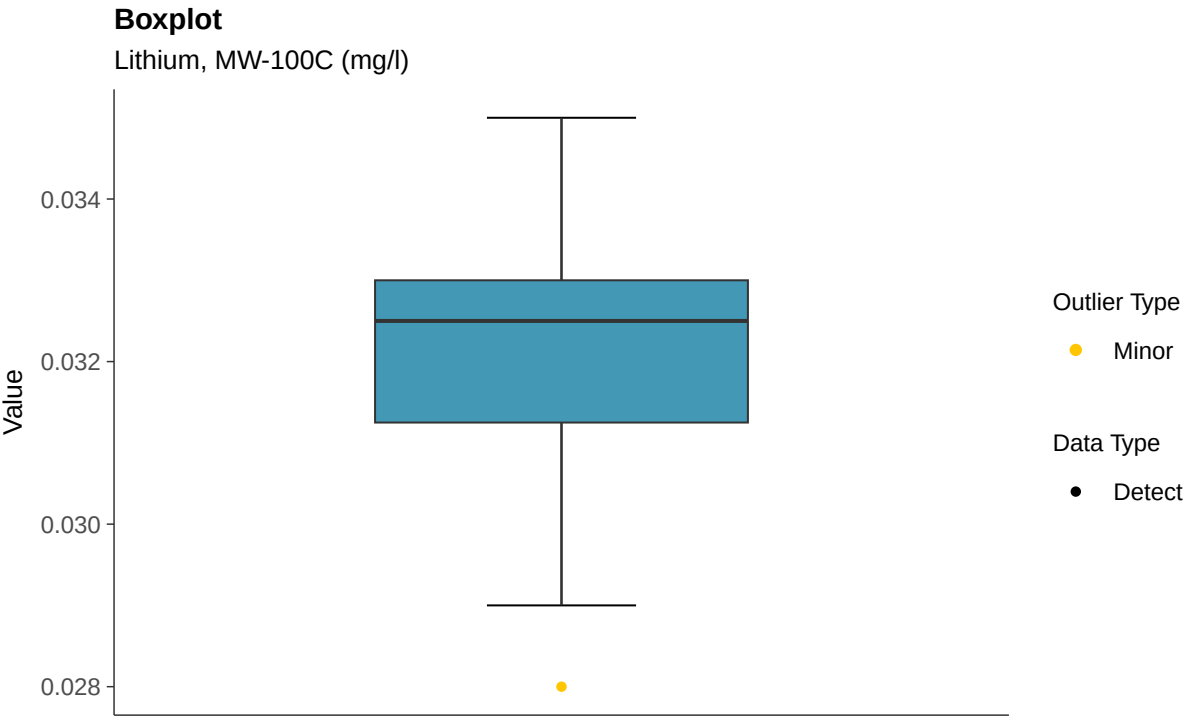


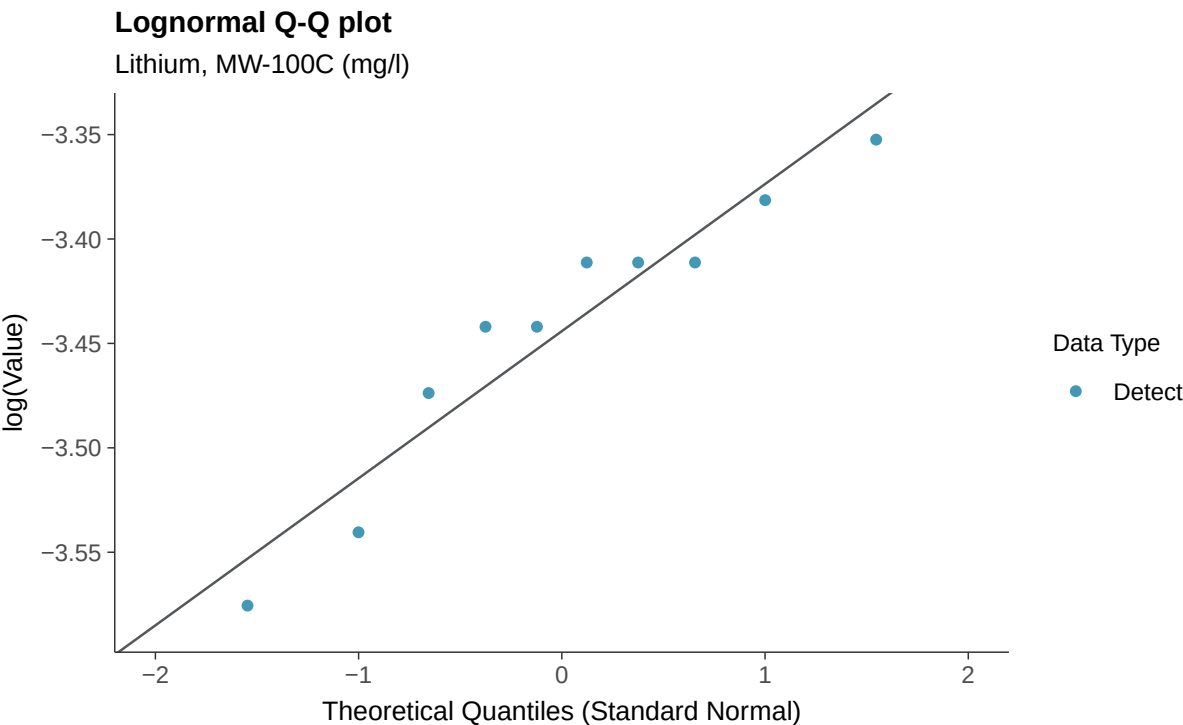
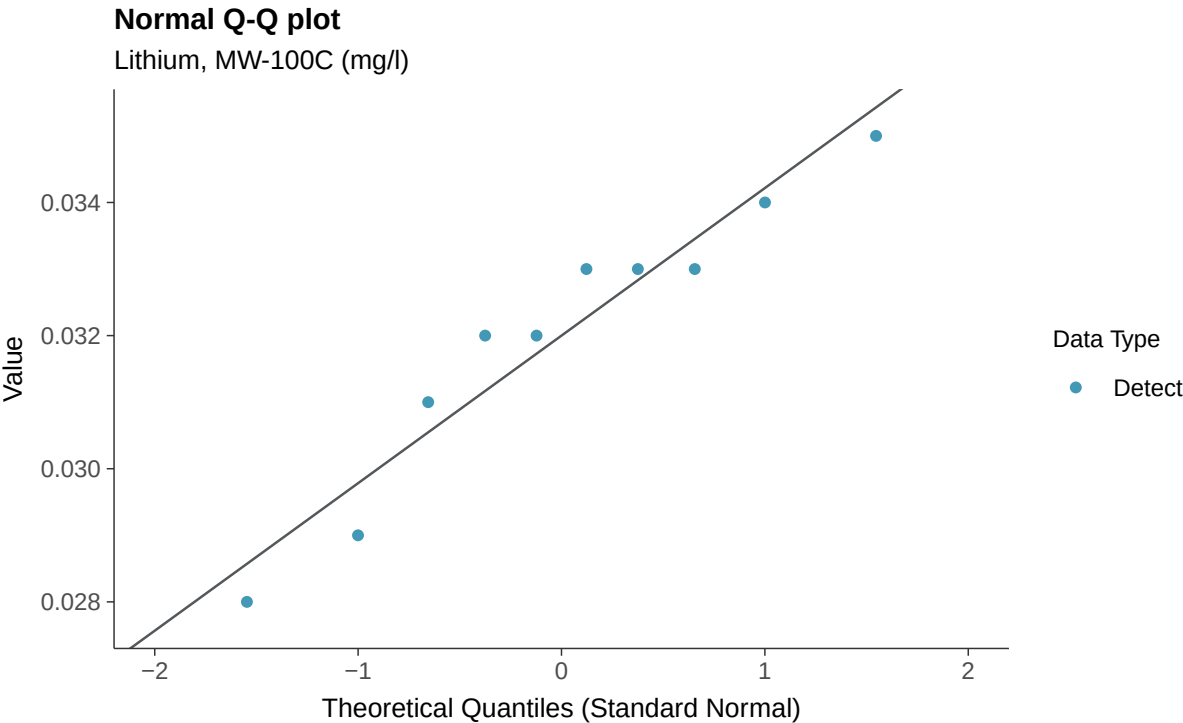


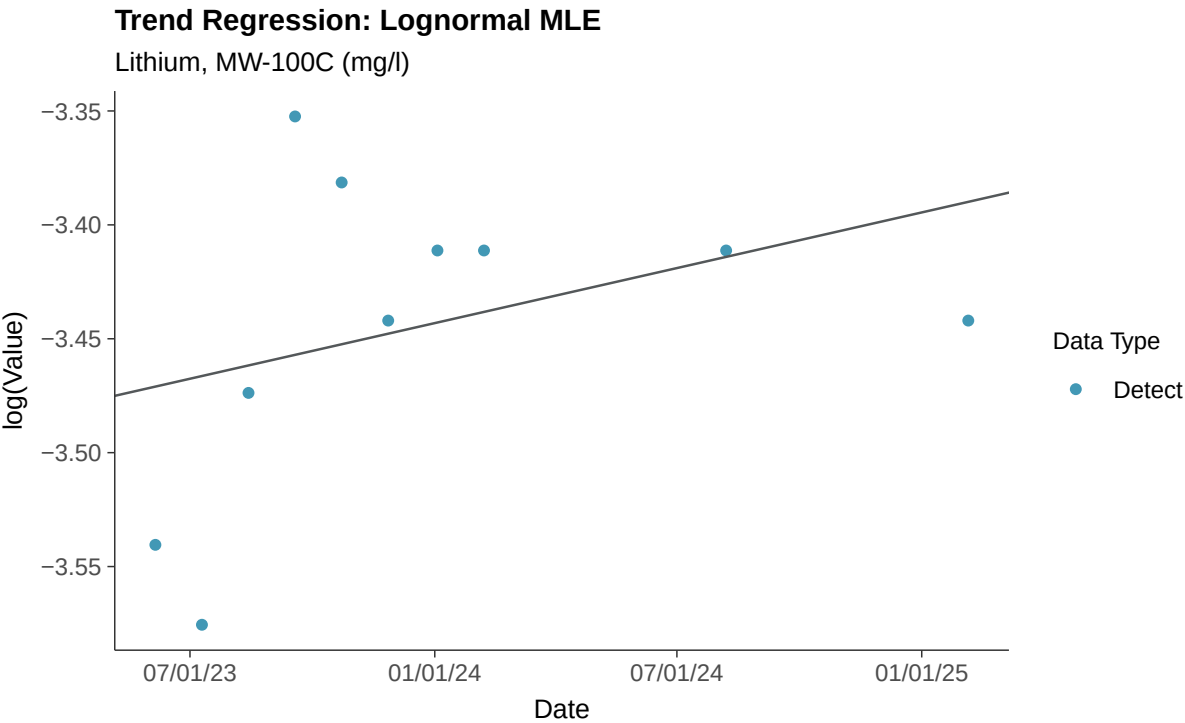
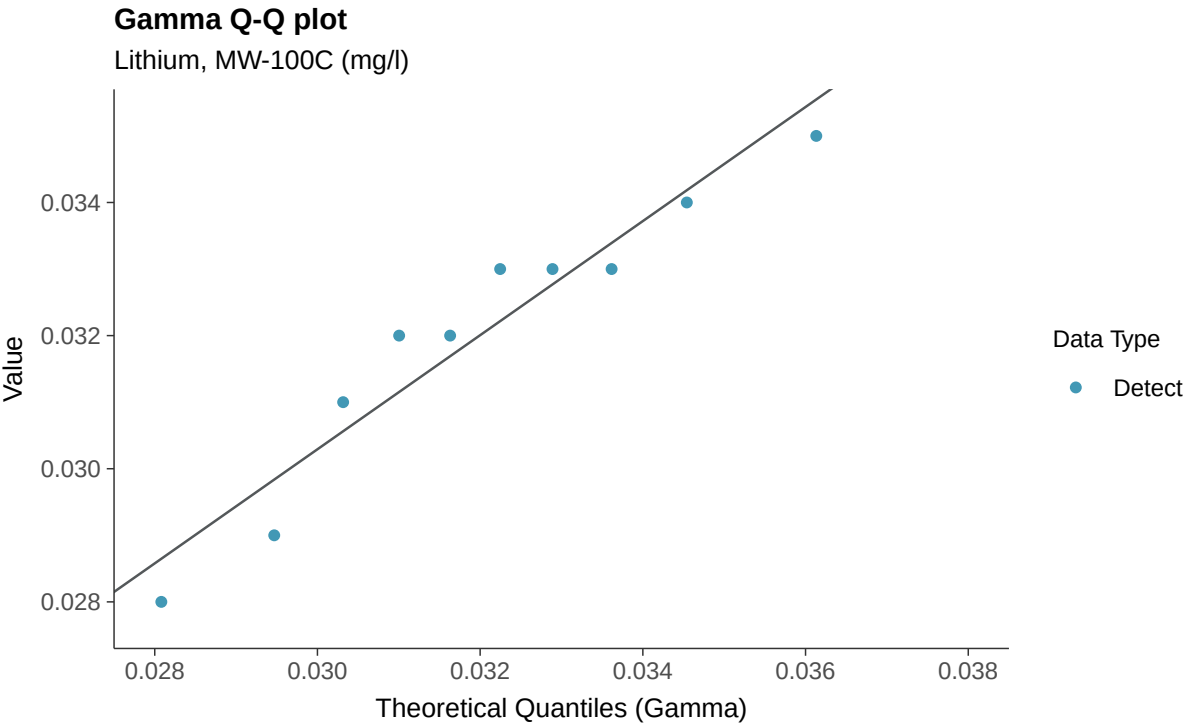
Appendix IV: Lithium, MW-100C

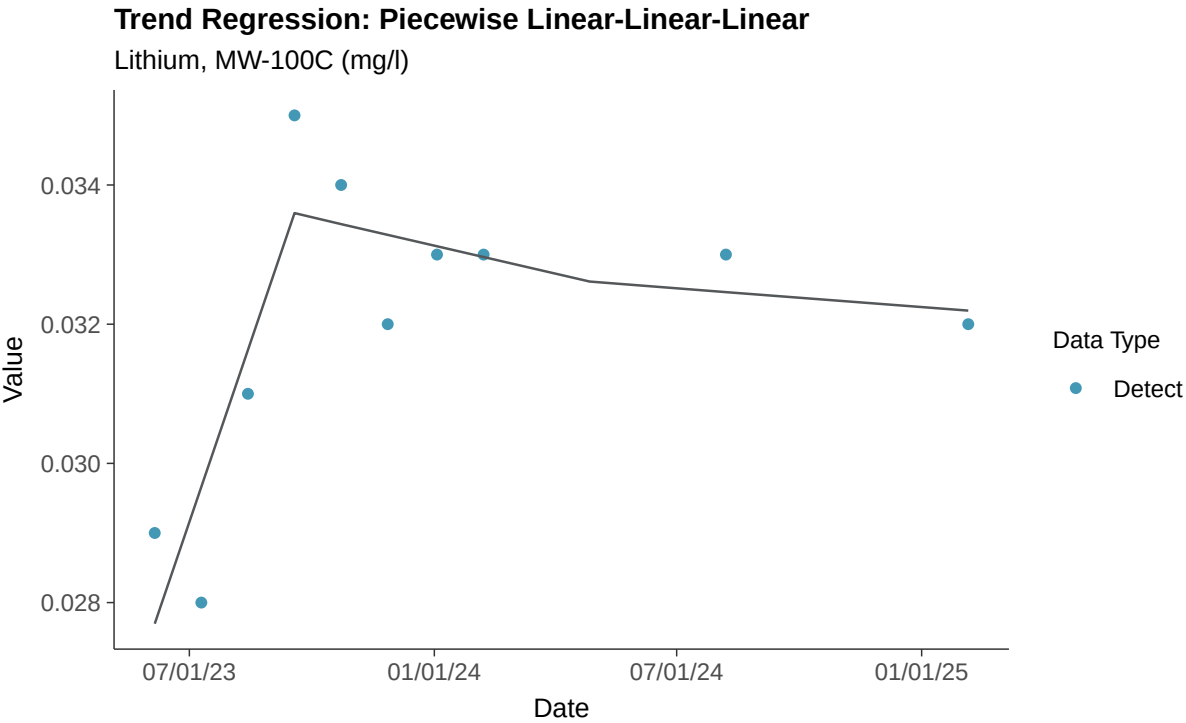
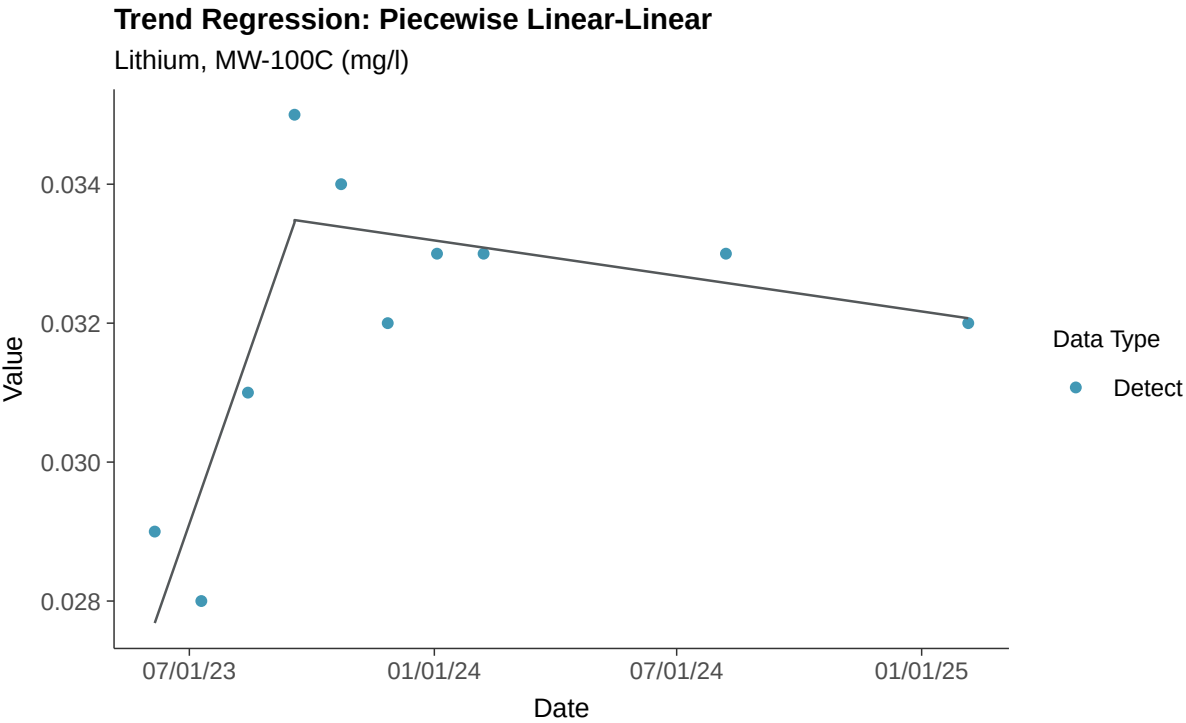
ID: 18_3_116







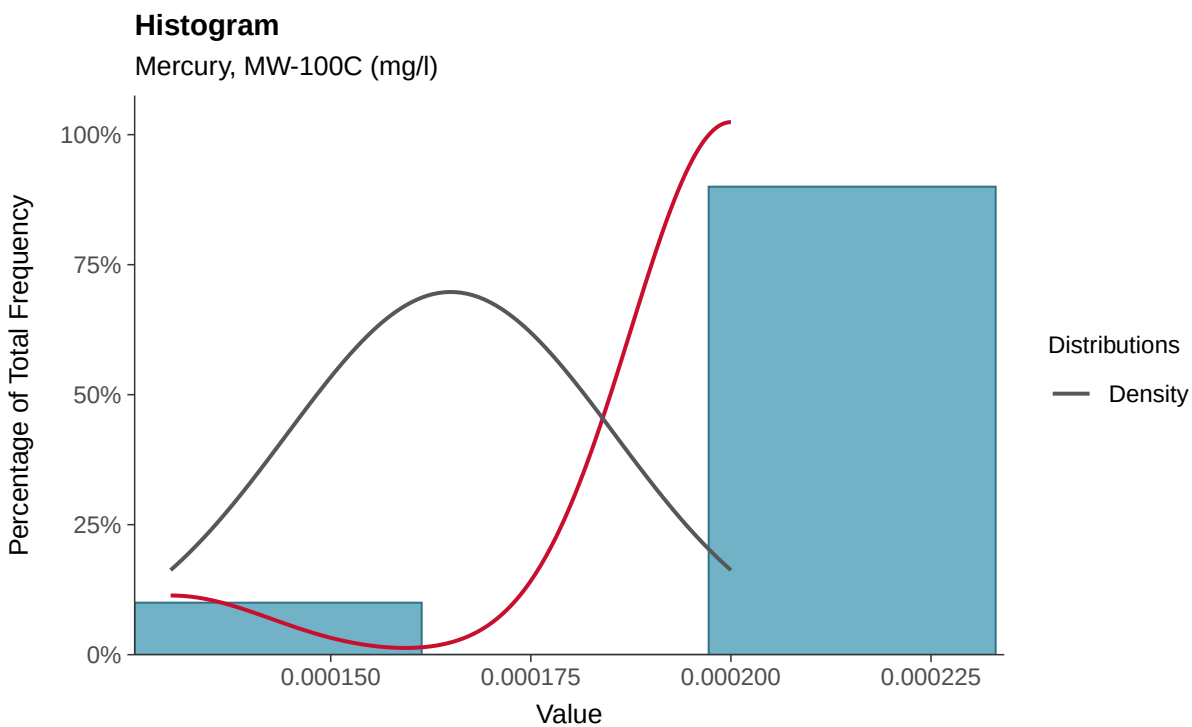
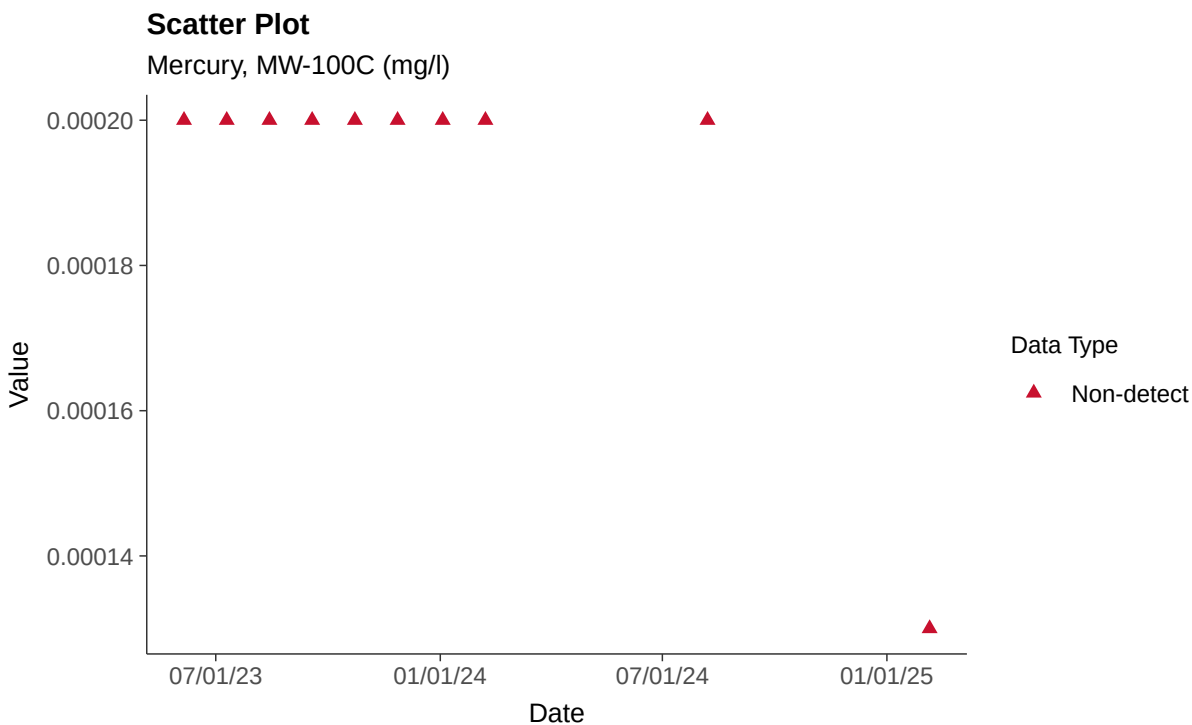


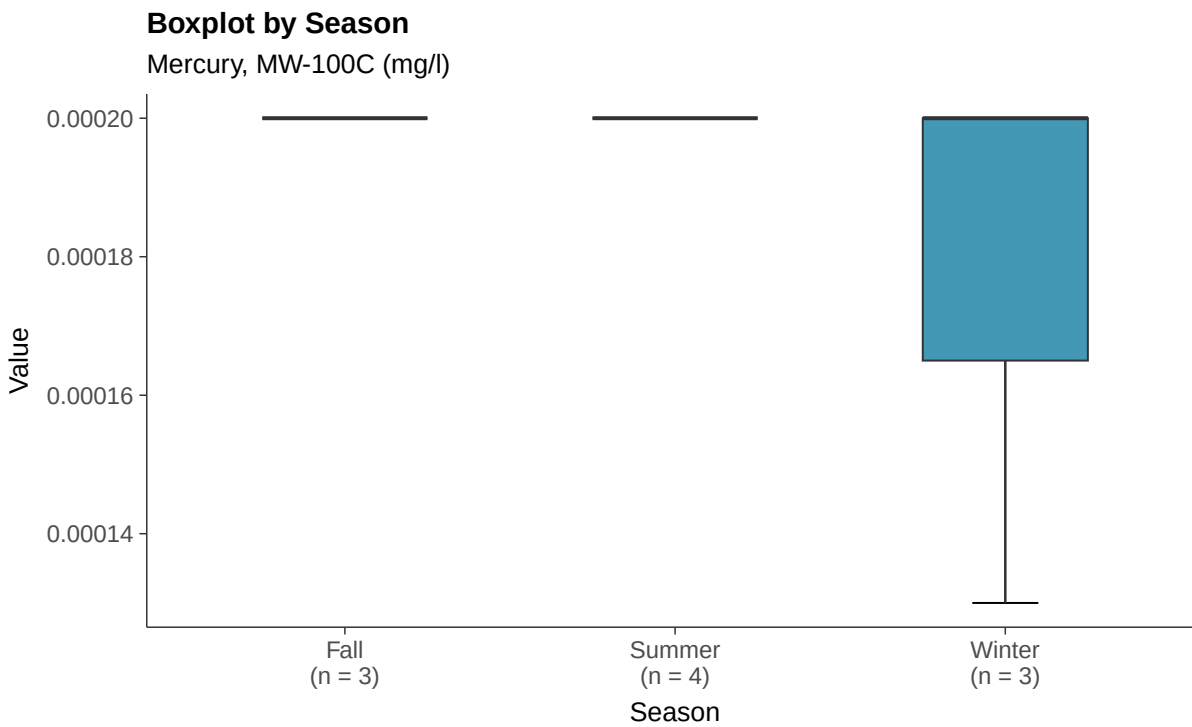
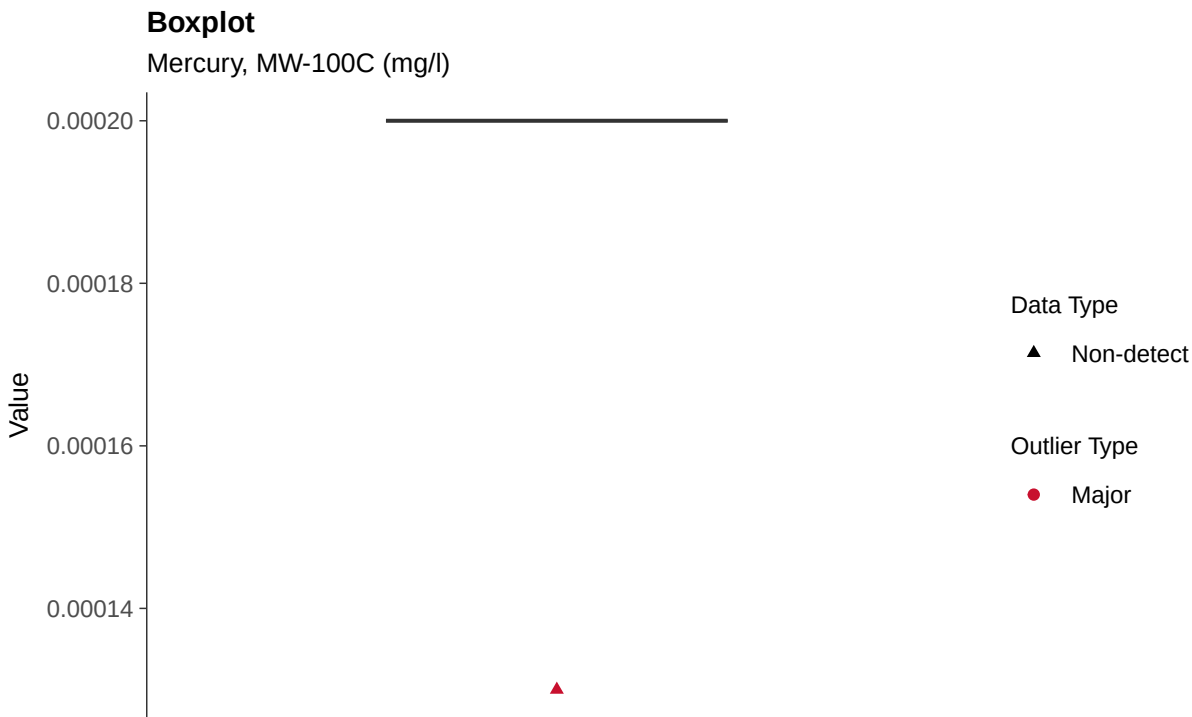




Appendix IV: Mercury, MW-100C

ID: 18_3_117

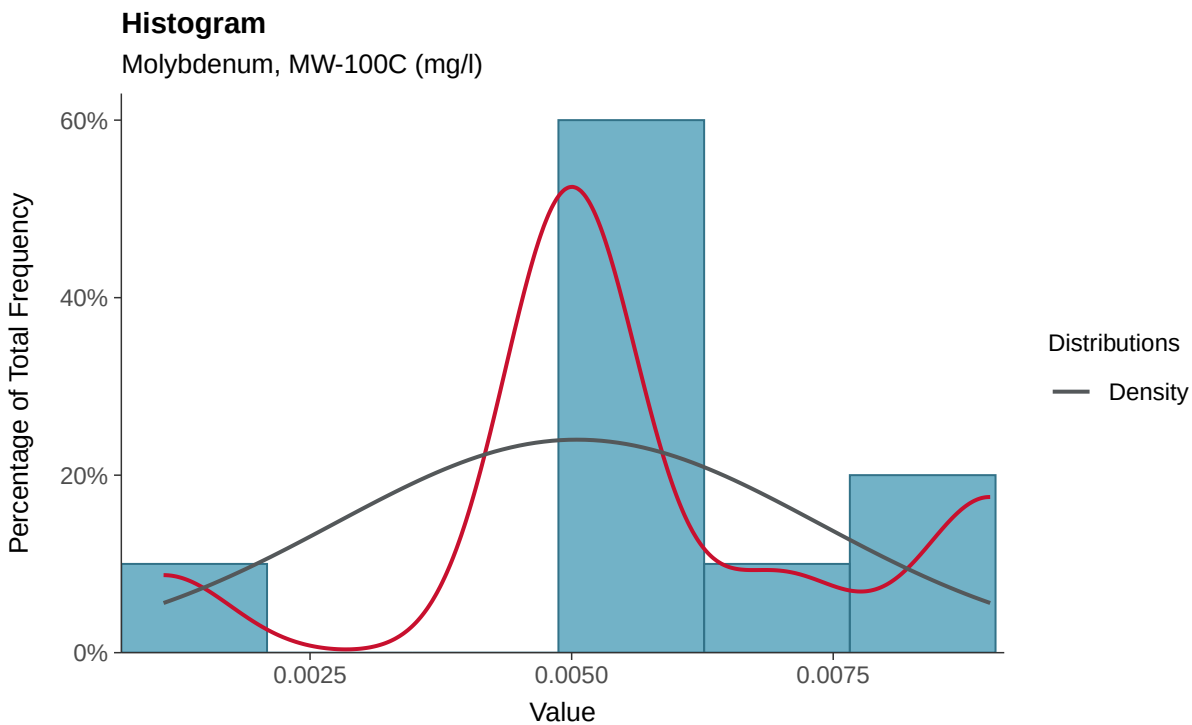
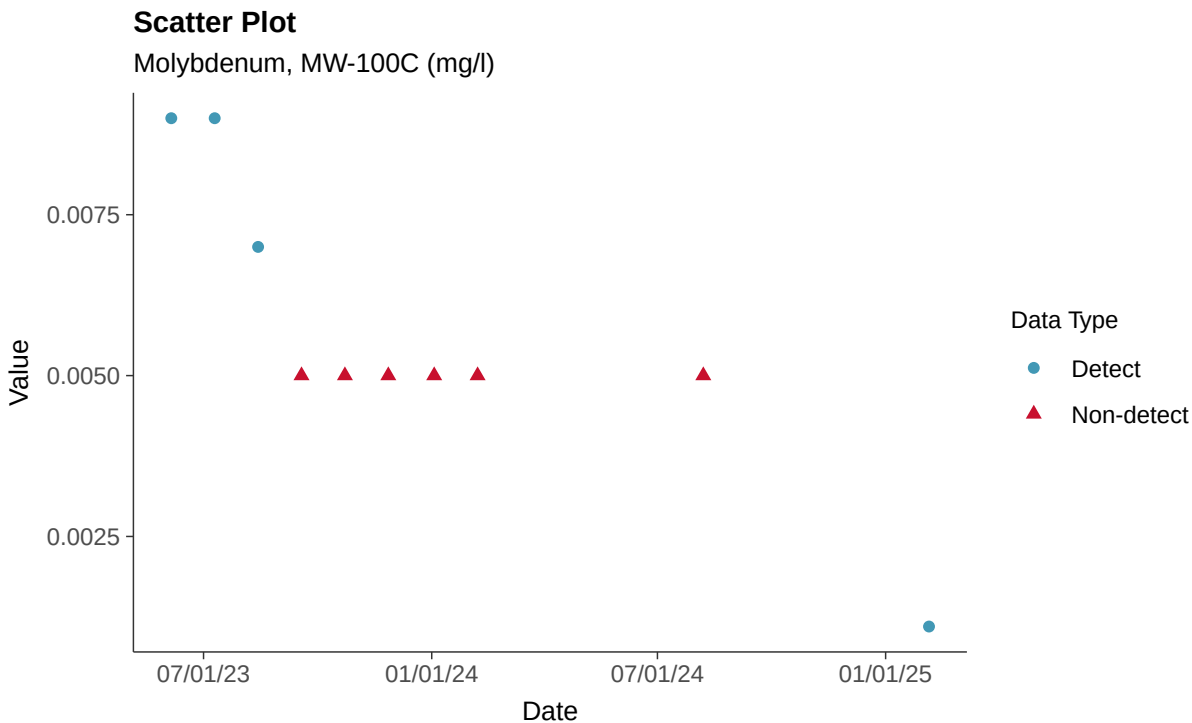


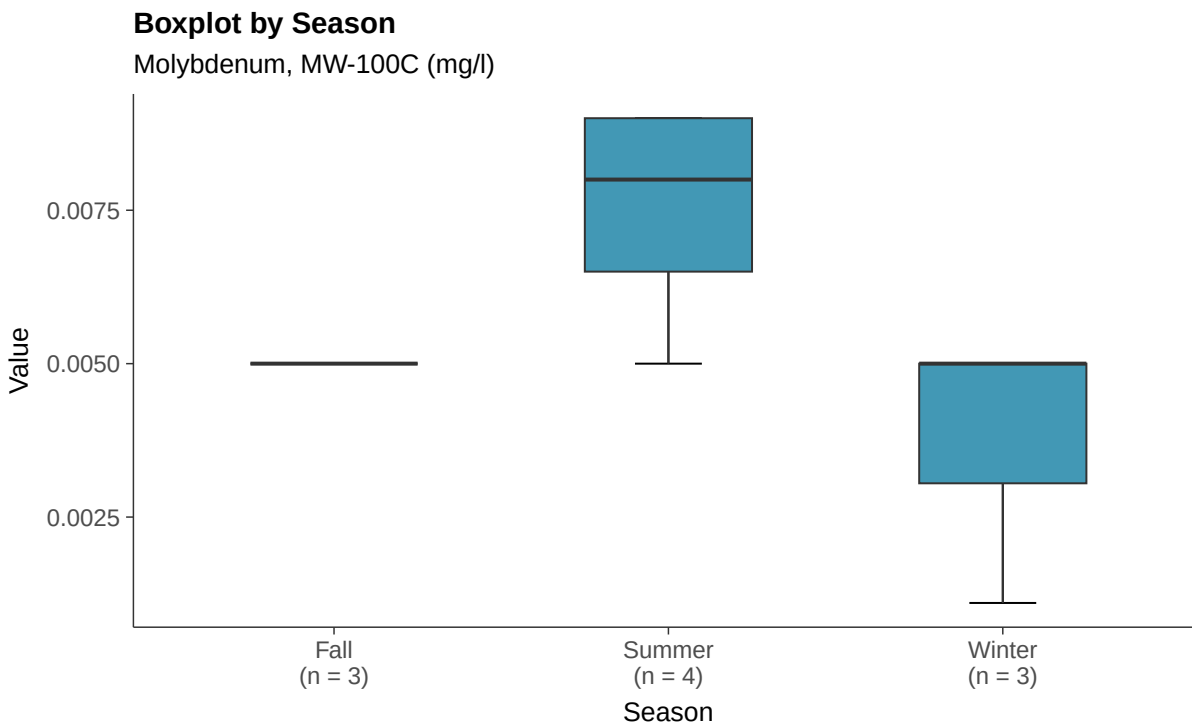
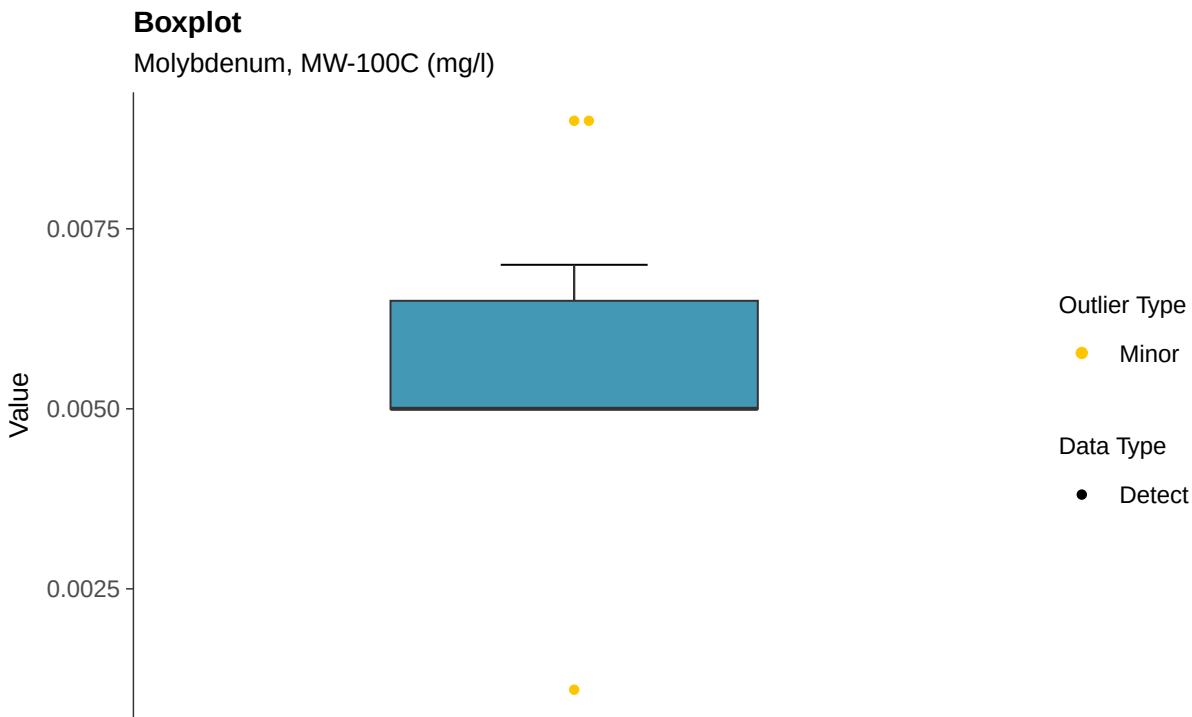


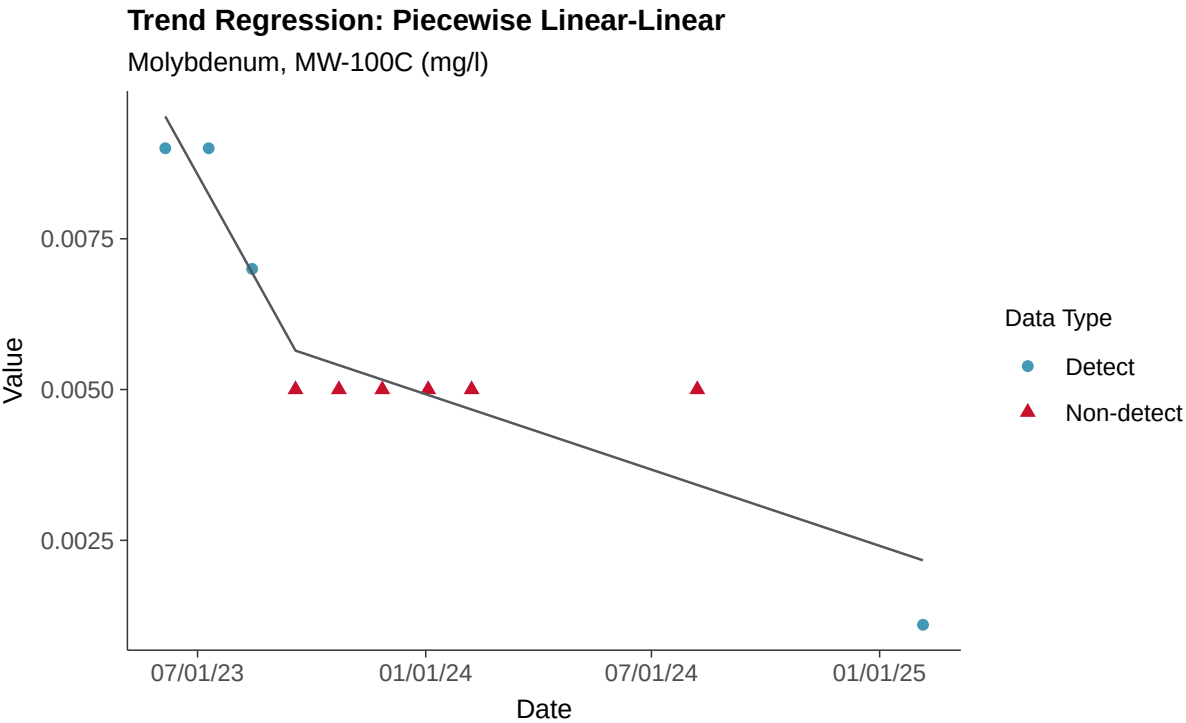
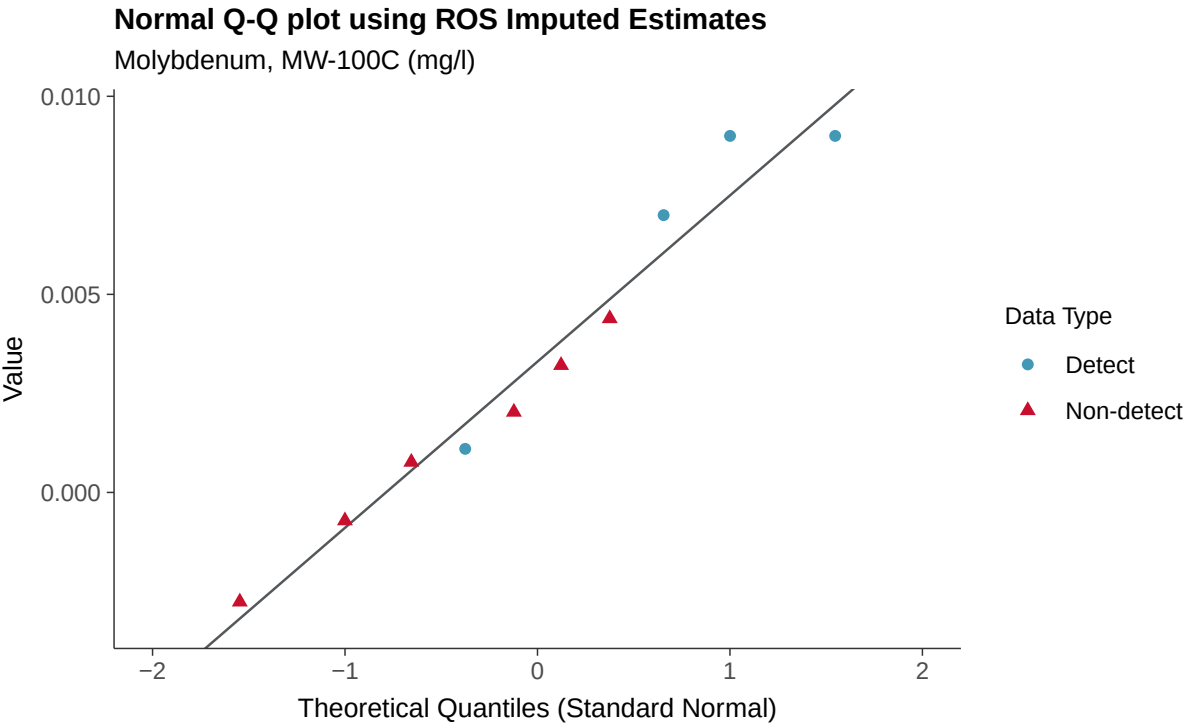


Appendix IV: Molybdenum, MW-100C

ID: 18_3_118



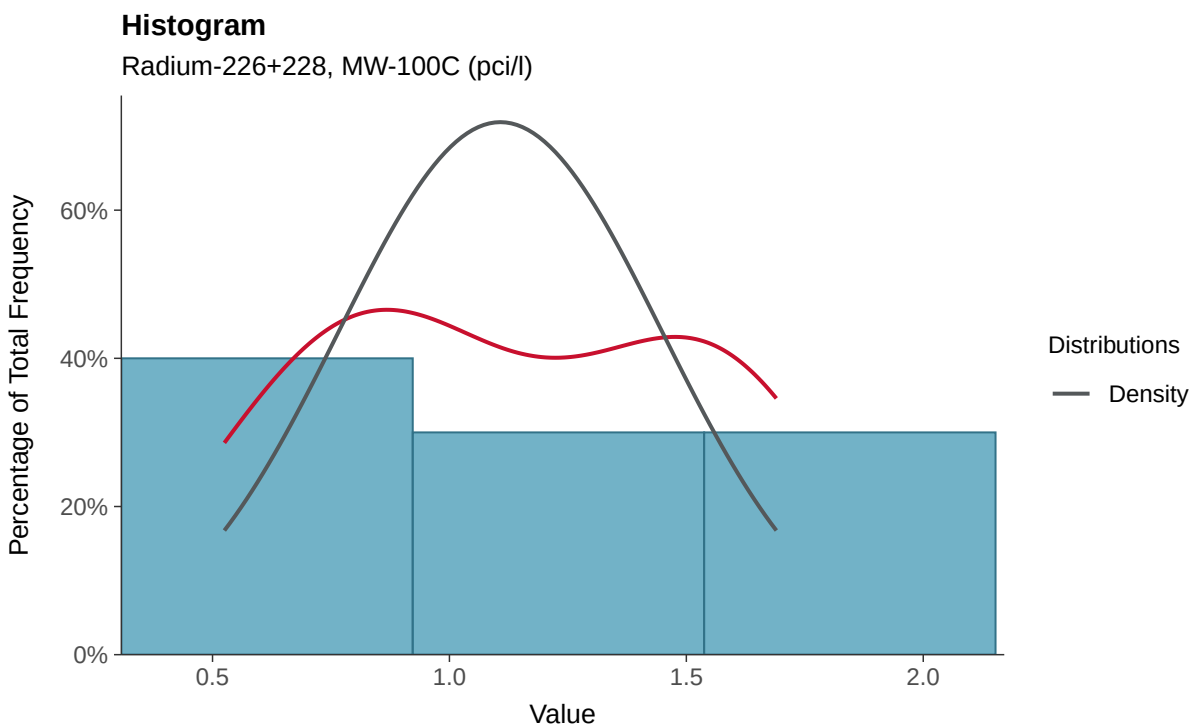
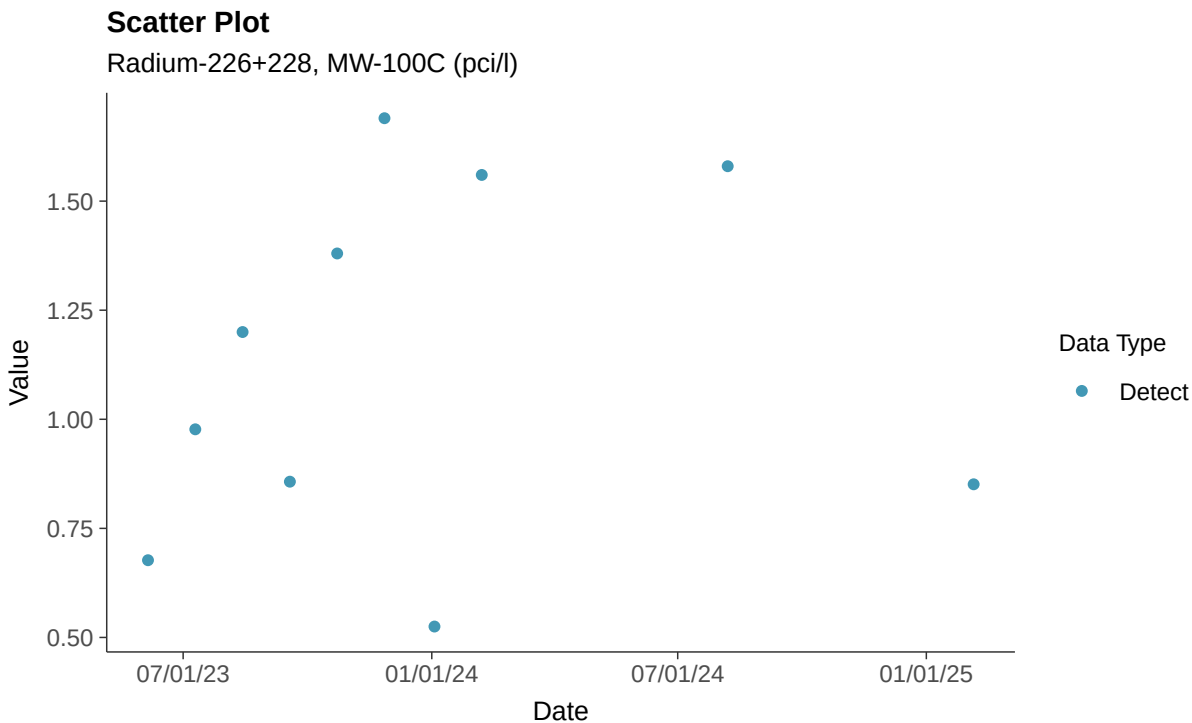






Appendix IV: Radium-226+228, MW-100C

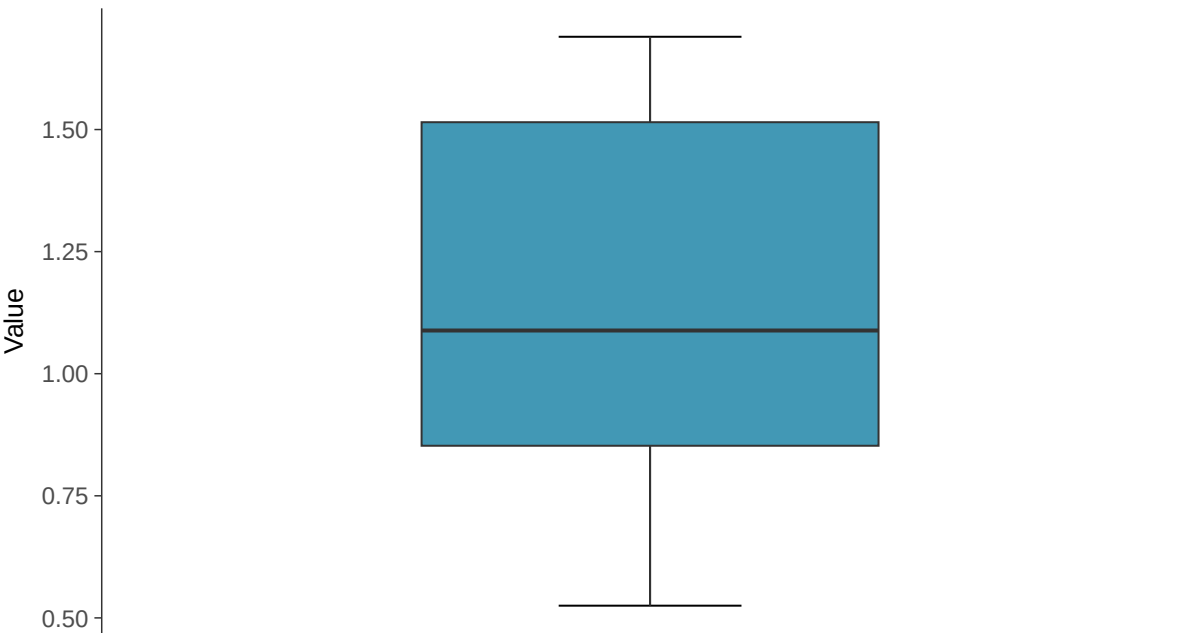
ID: 18_3_121





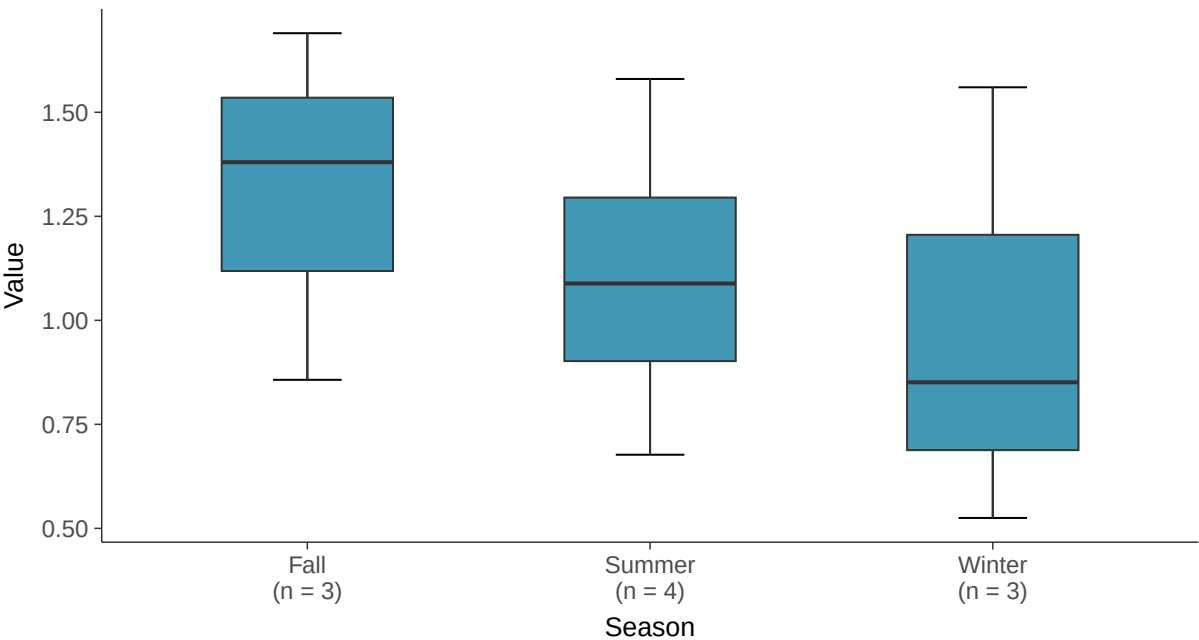
Boxplot

Radium-226+228, MW-100C (pci/l)



Boxplot by Season

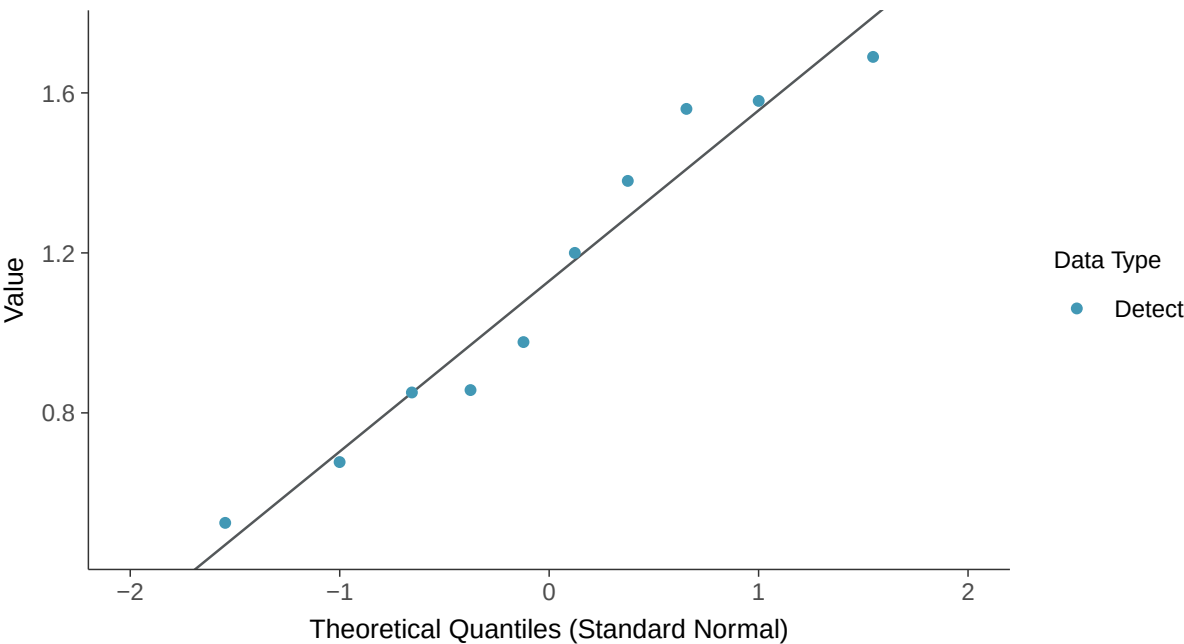
Radium-226+228, MW-100C (pci/l)





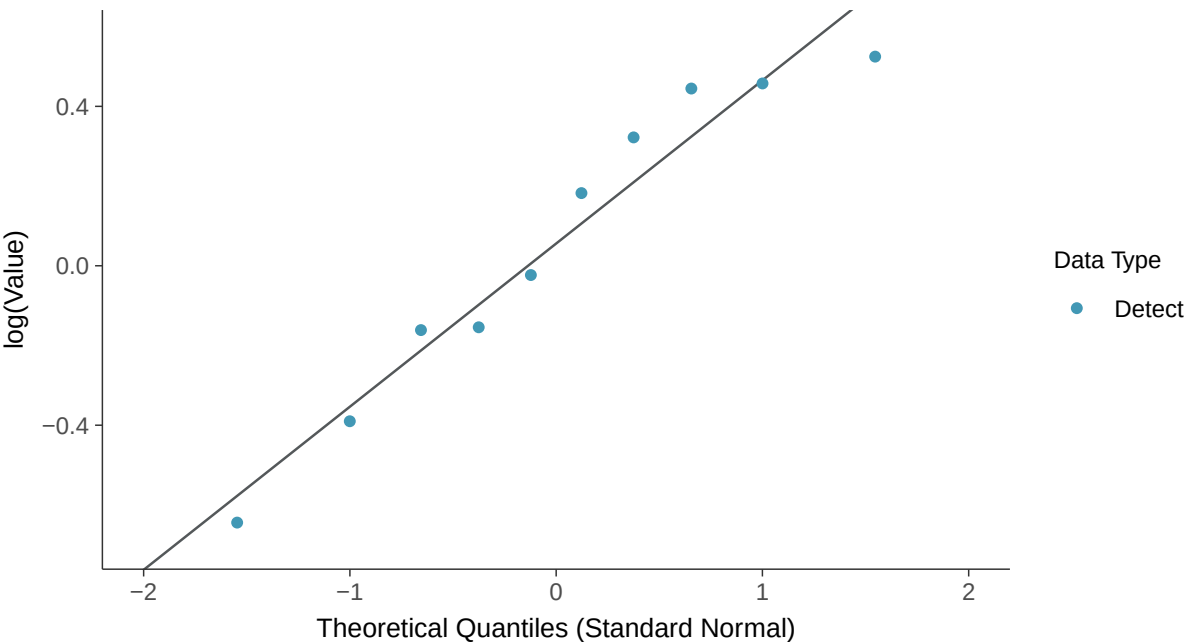
Normal Q-Q plot

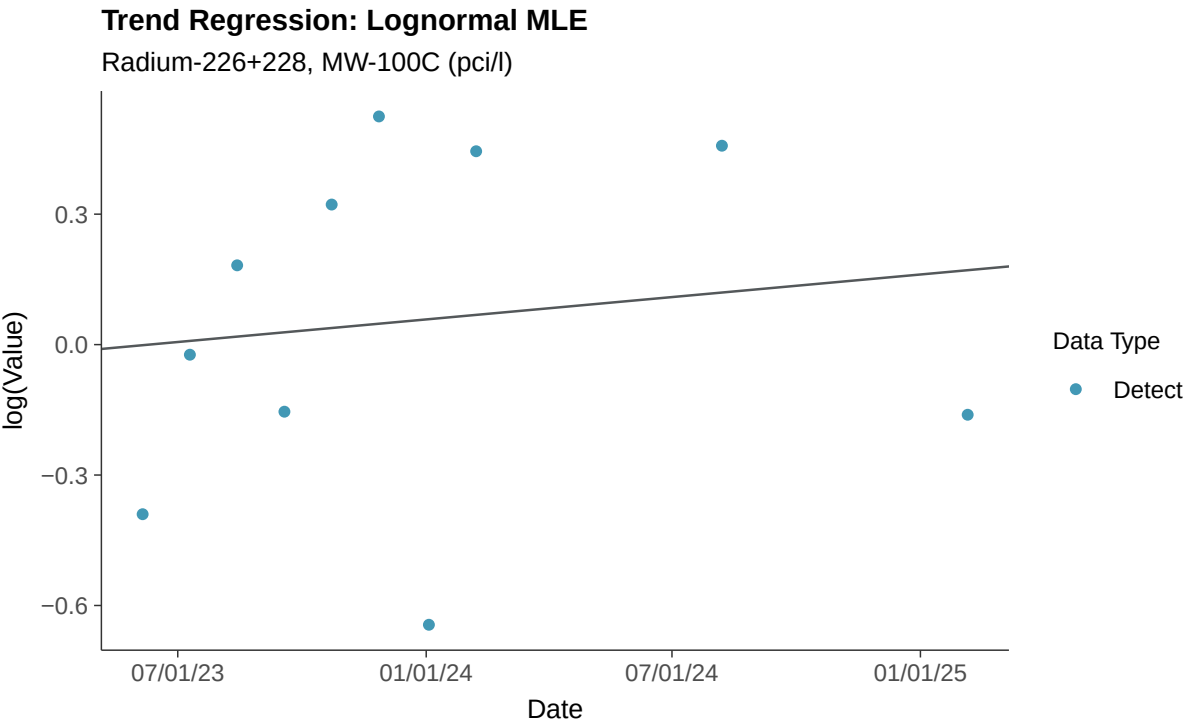
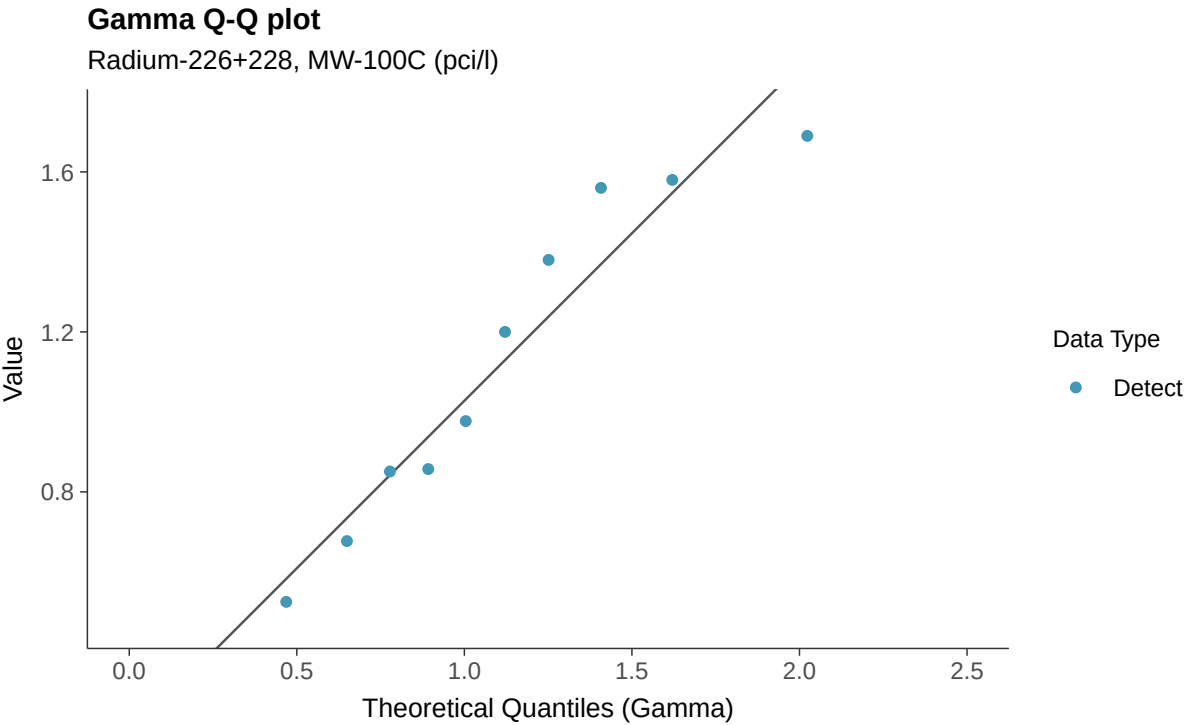
Radium-226+228, MW-100C (pci/l)

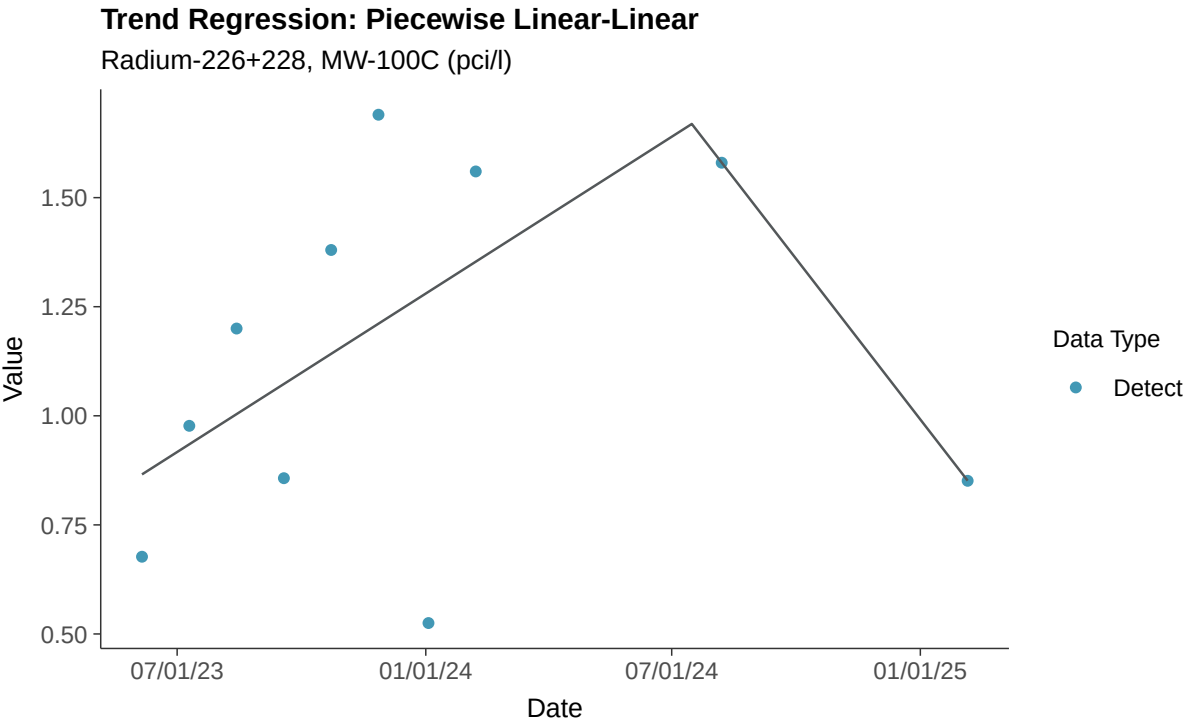


Lognormal Q-Q plot

Radium-226+228, MW-100C (pci/l)



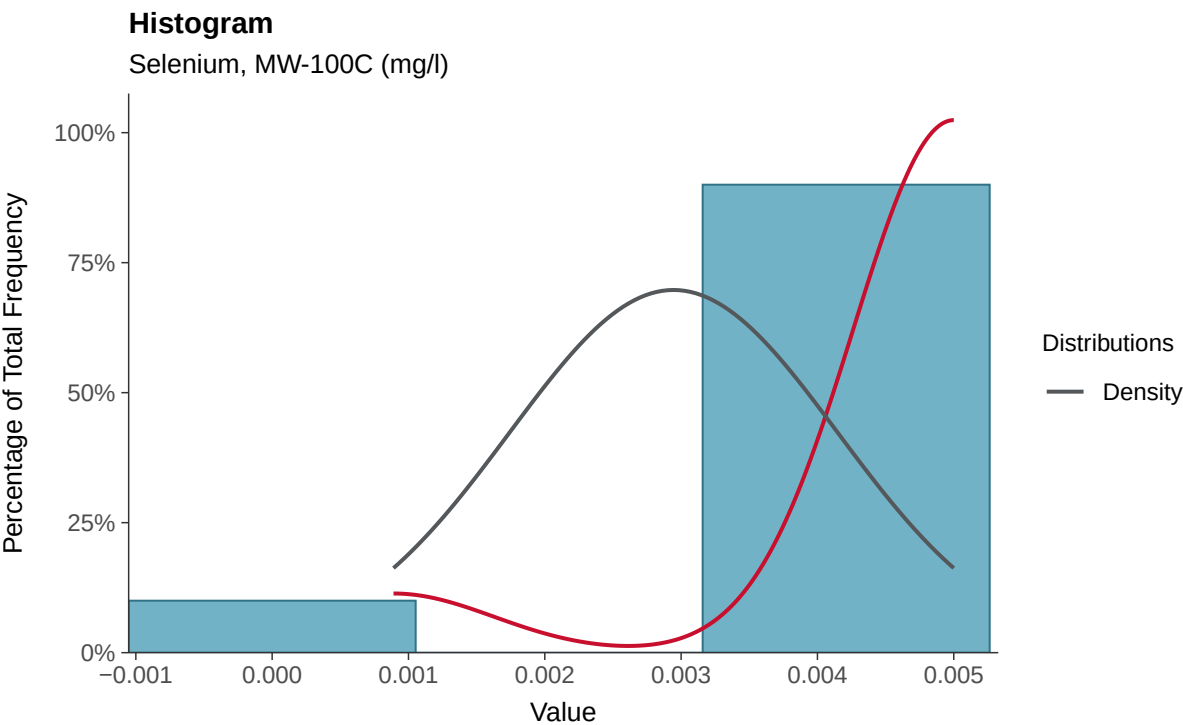
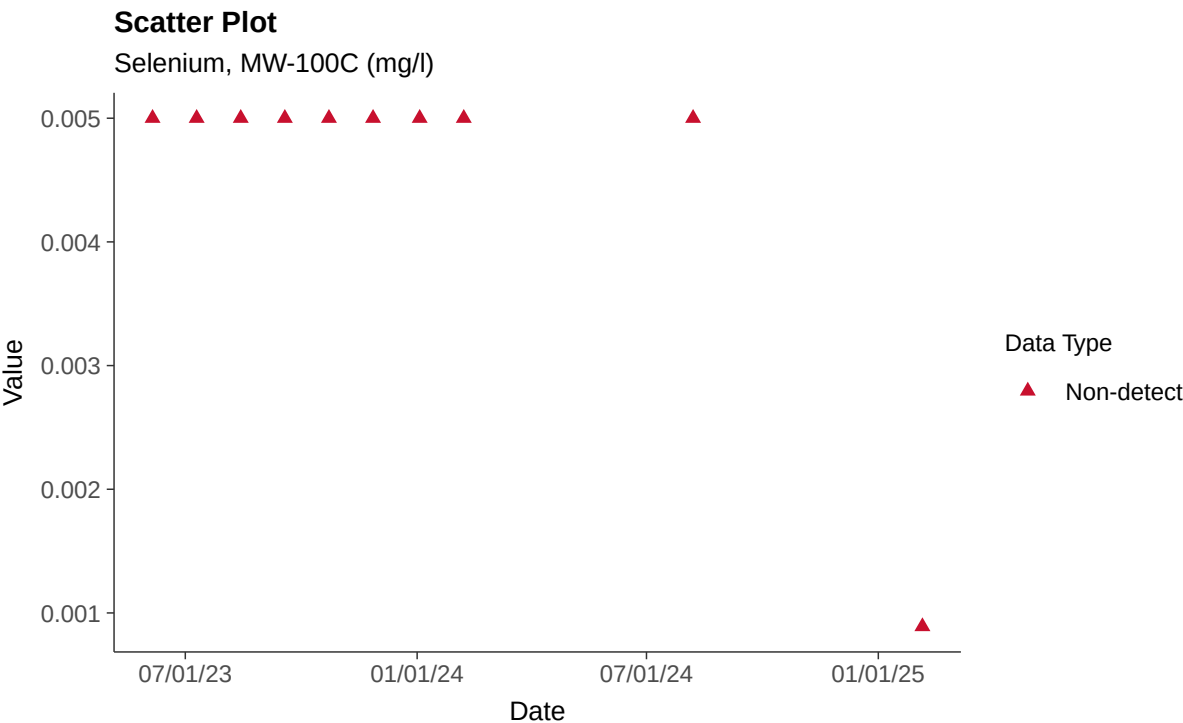


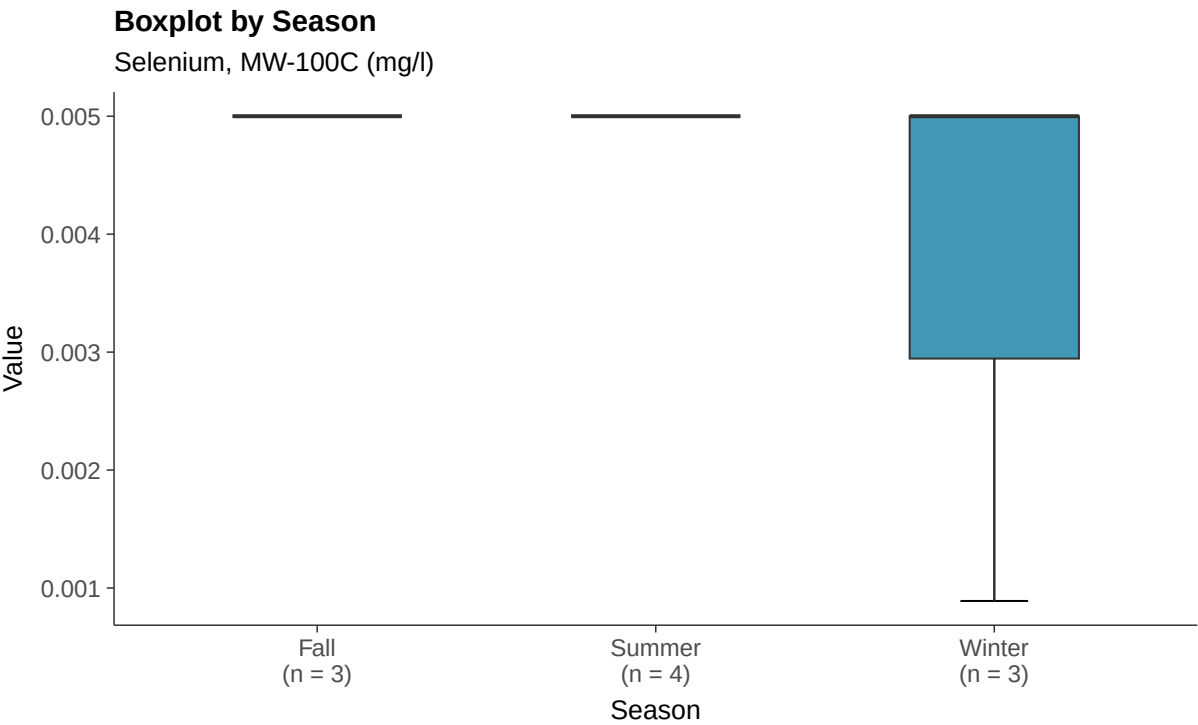
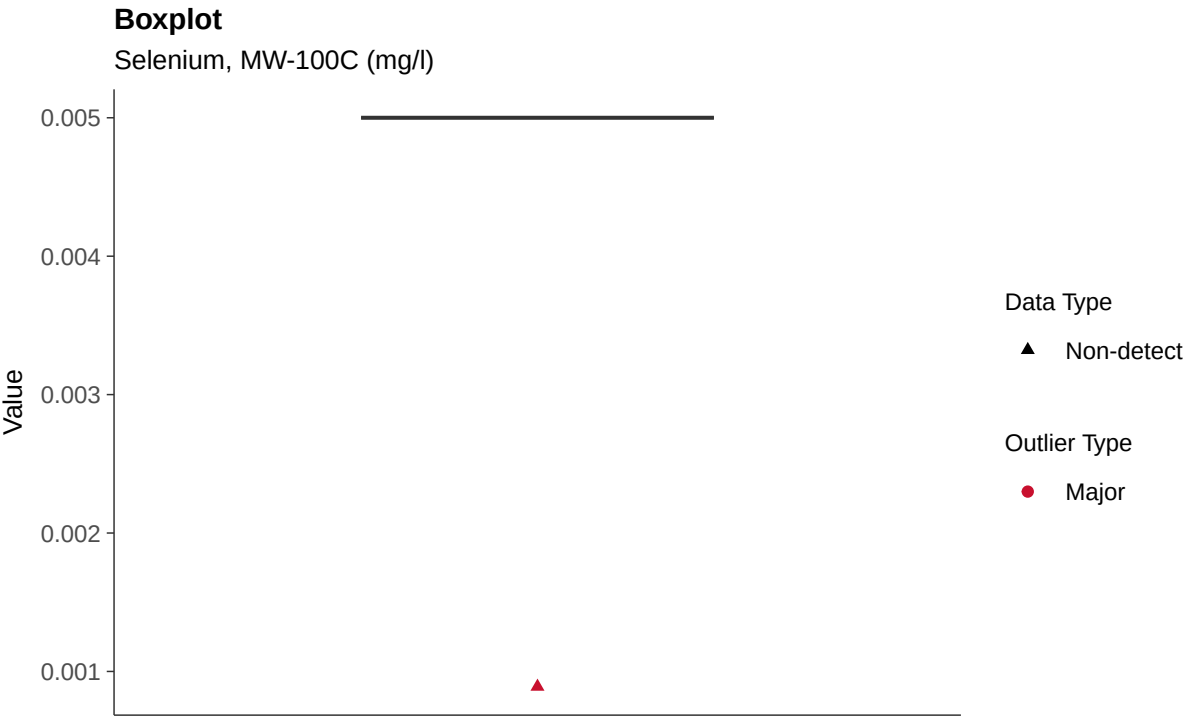




Appendix IV: Selenium, MW-100C

ID: 18_3_122

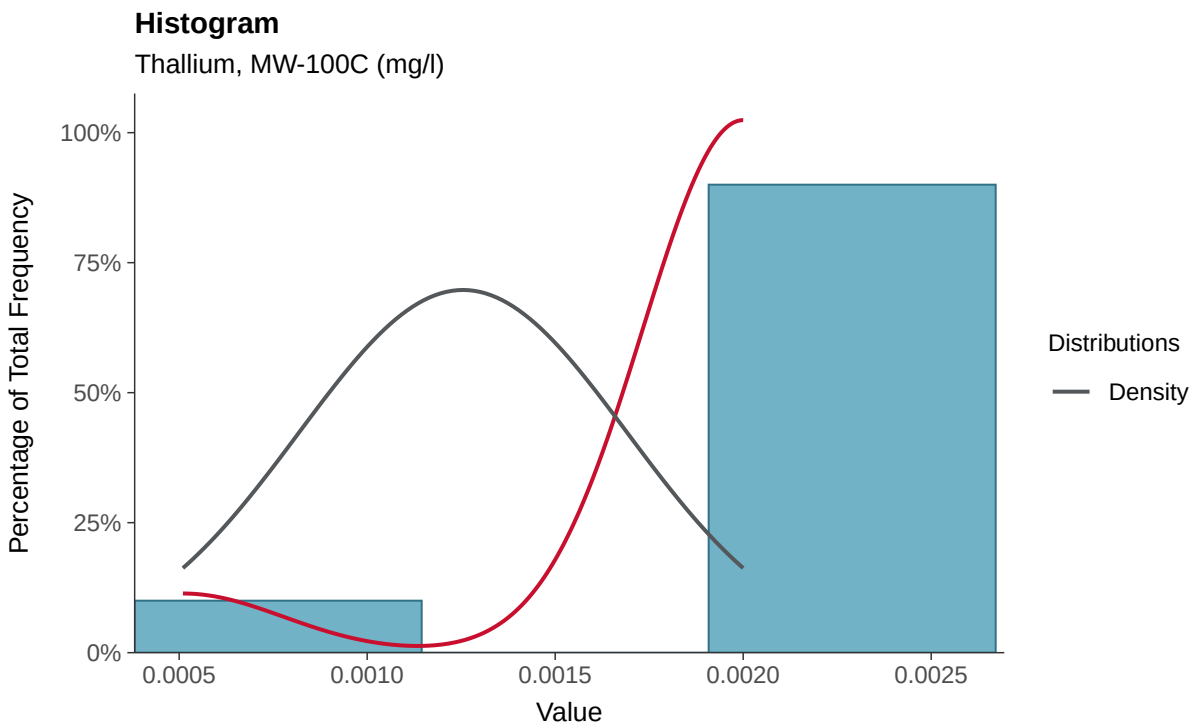
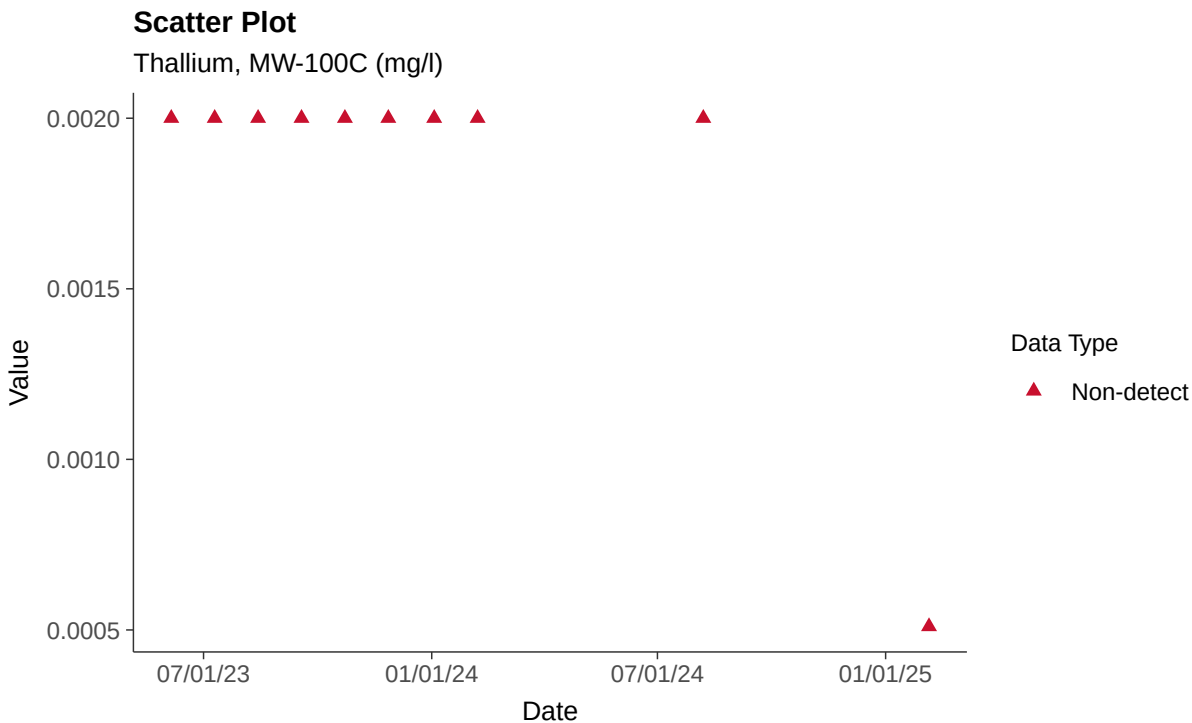


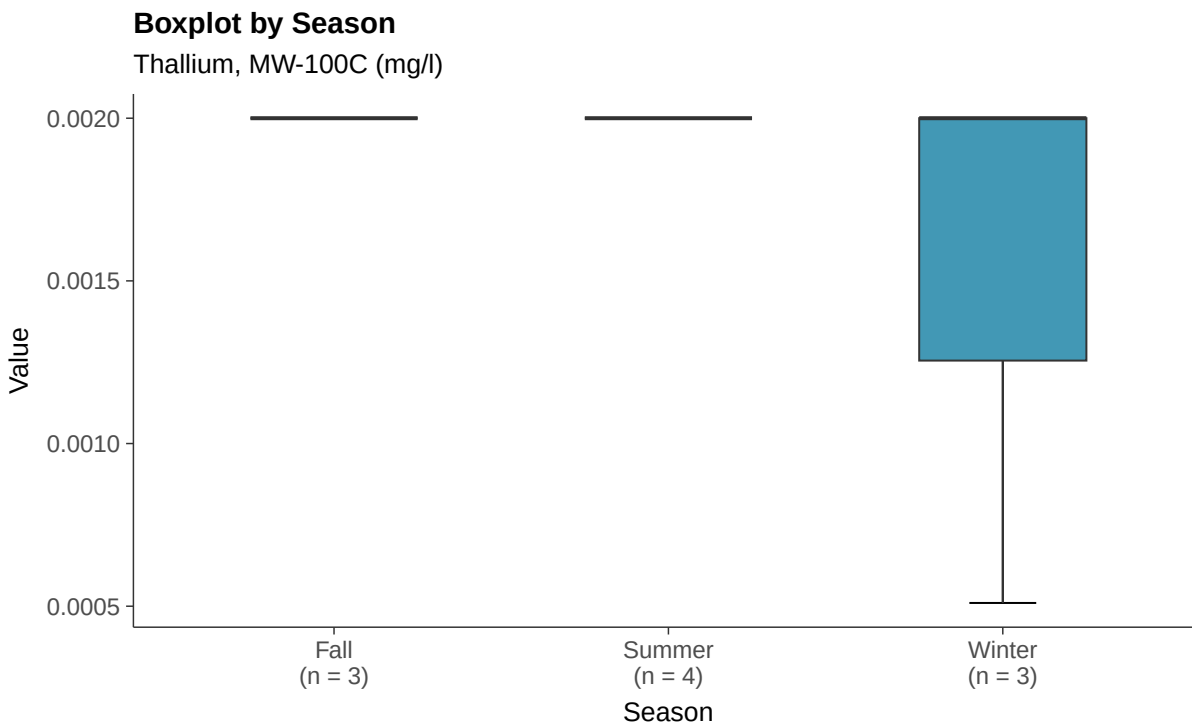
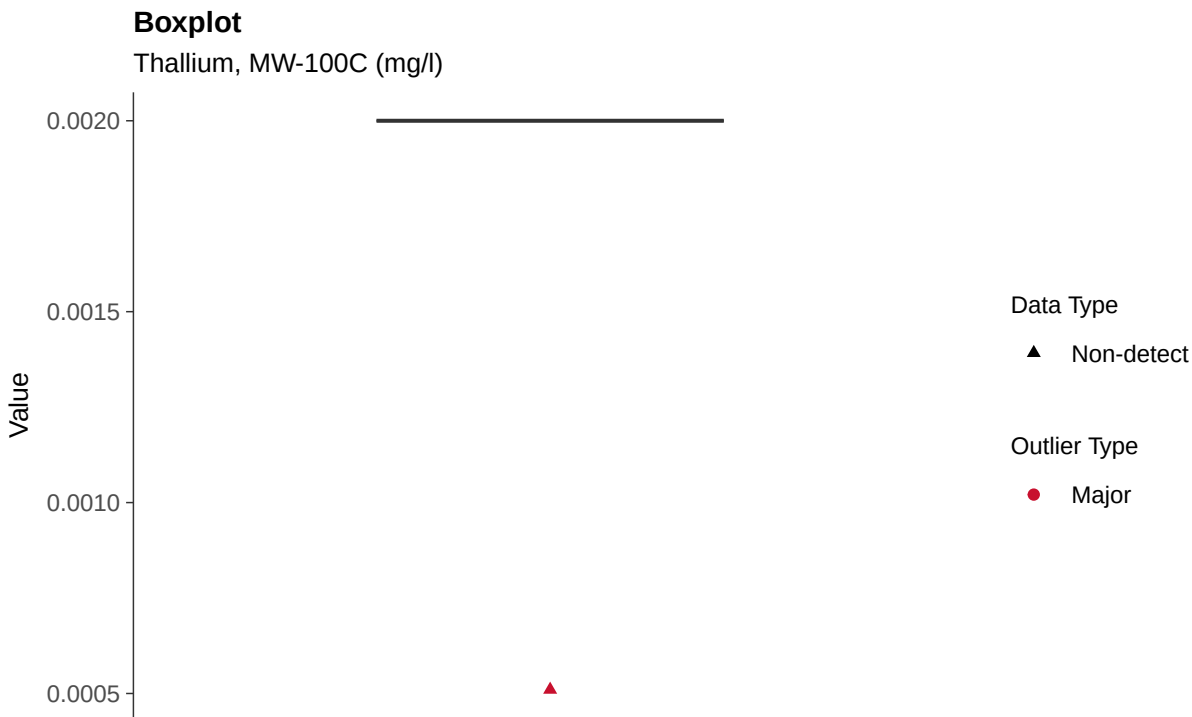




Appendix IV: Thallium, MW-100C

ID: 18_3_125

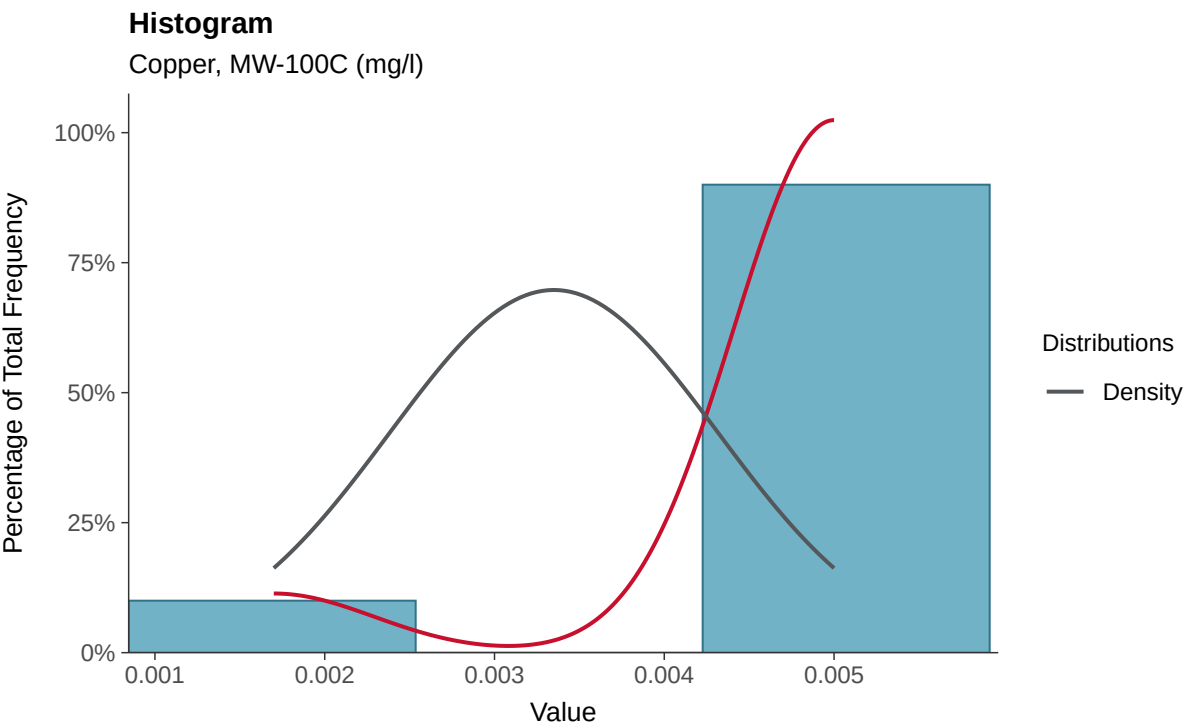
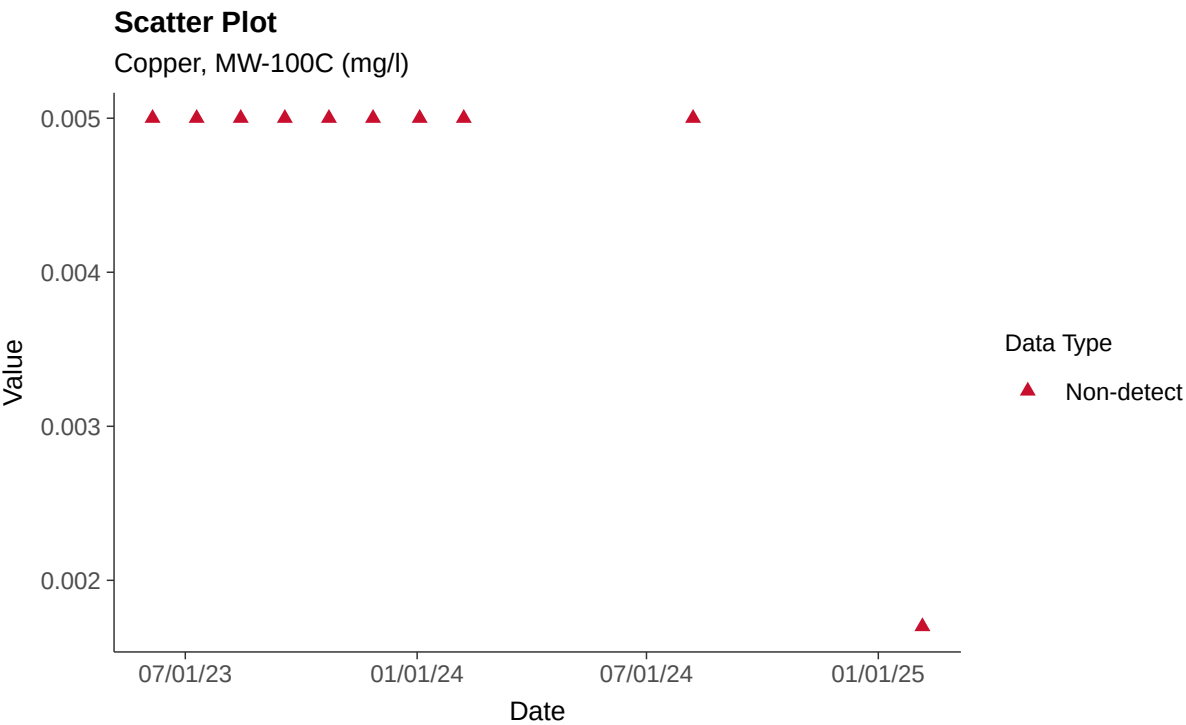


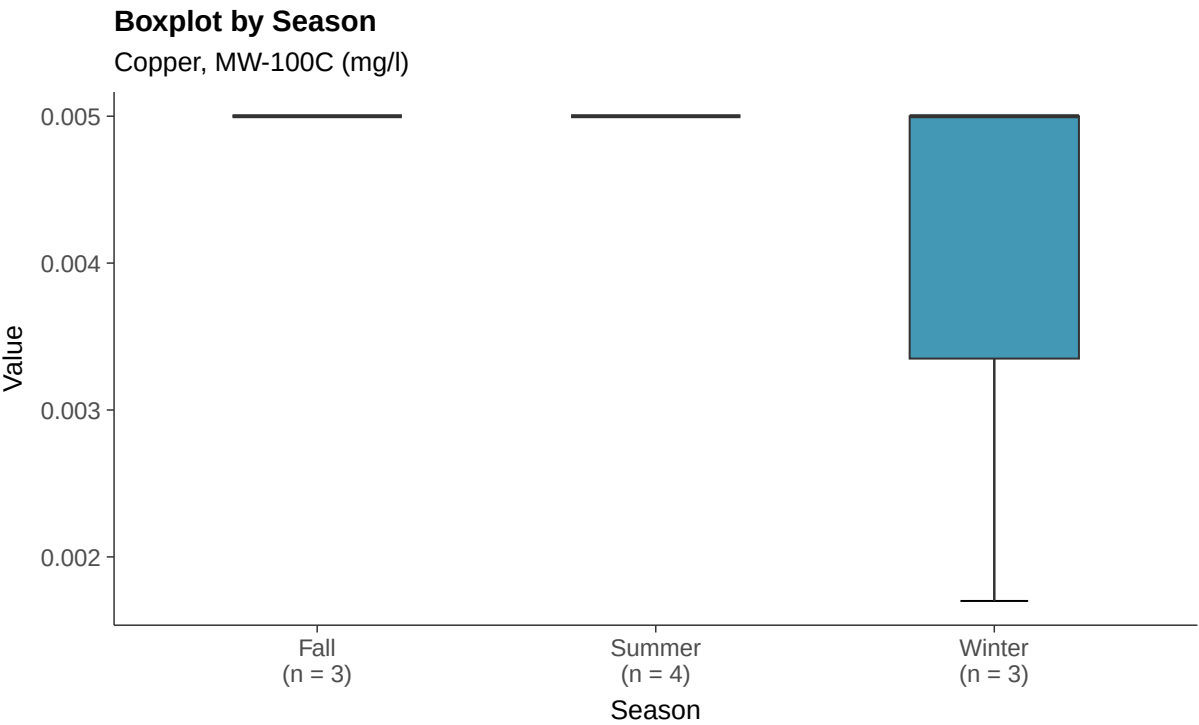
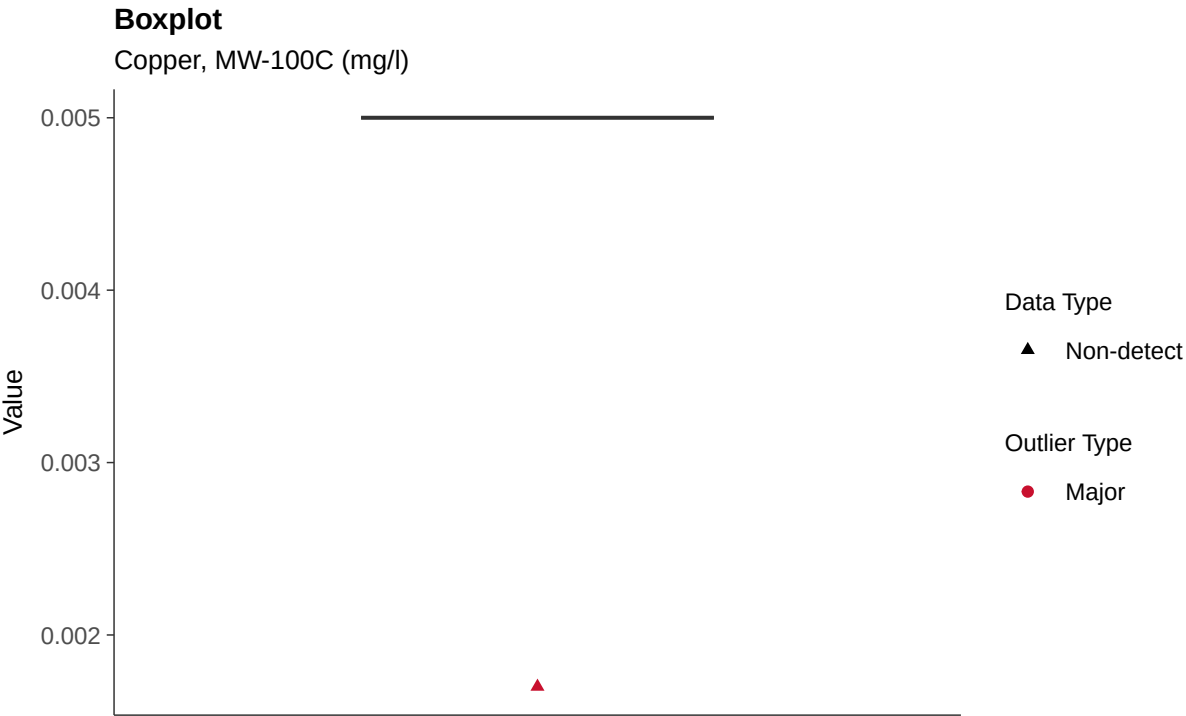




Part 115: Copper, MW-100C

ID: 18_5_111

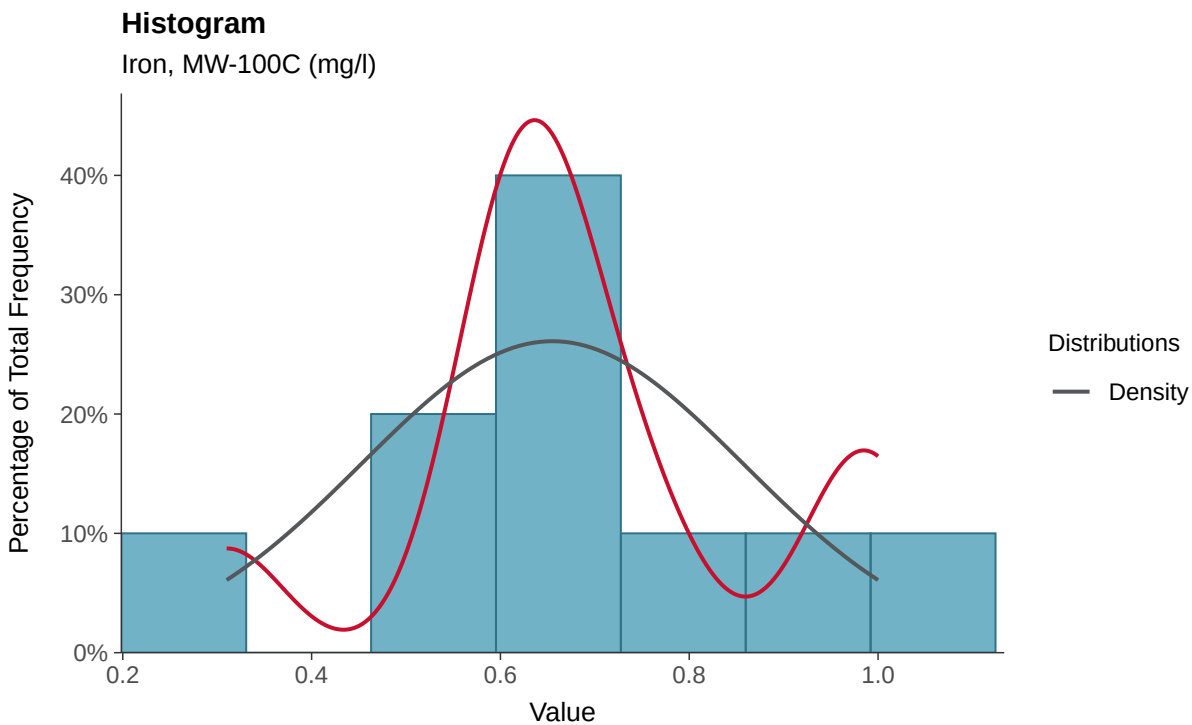
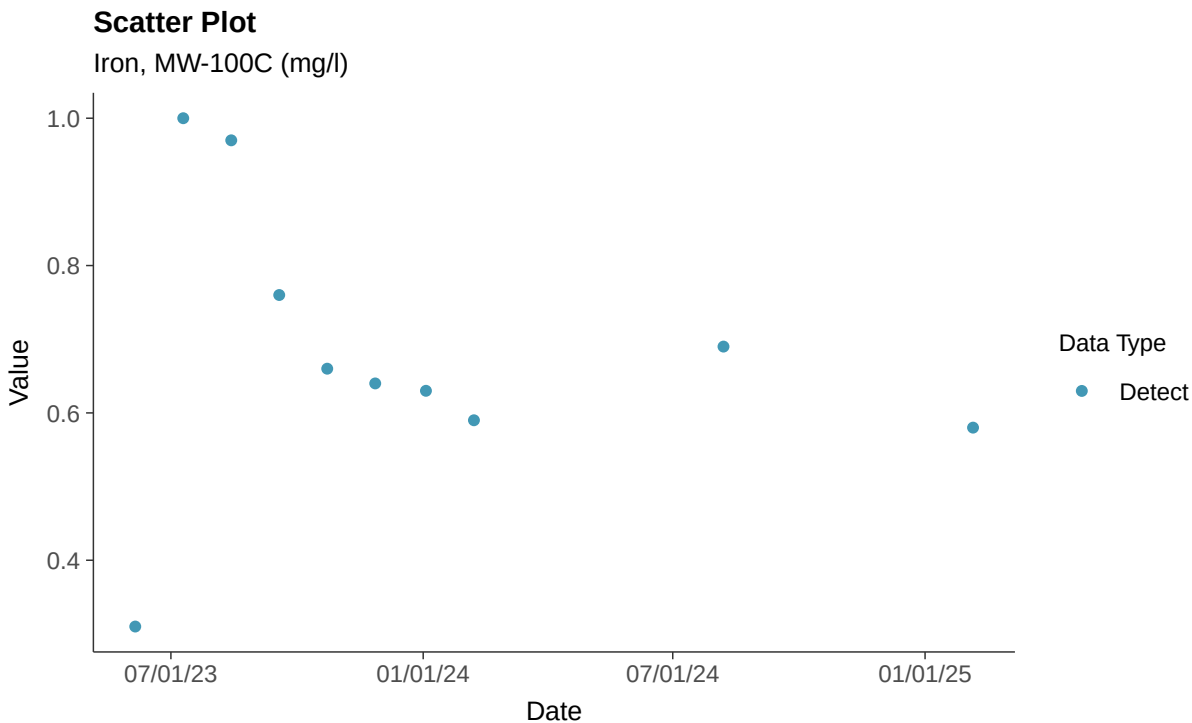


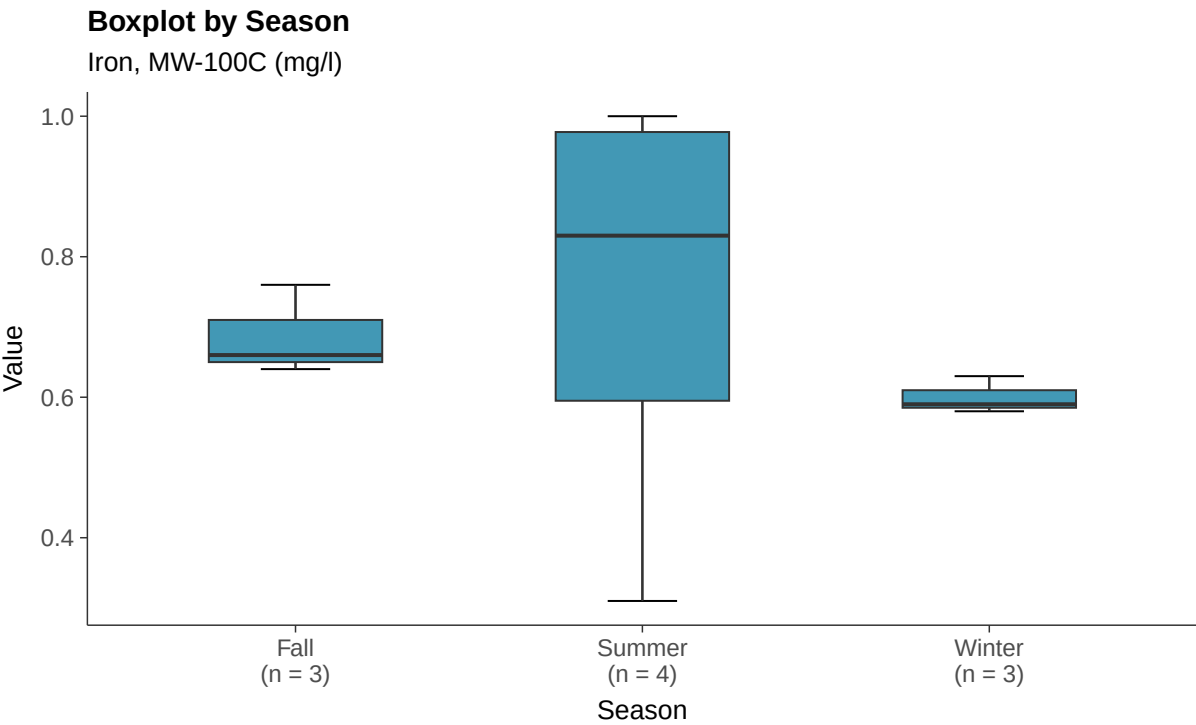
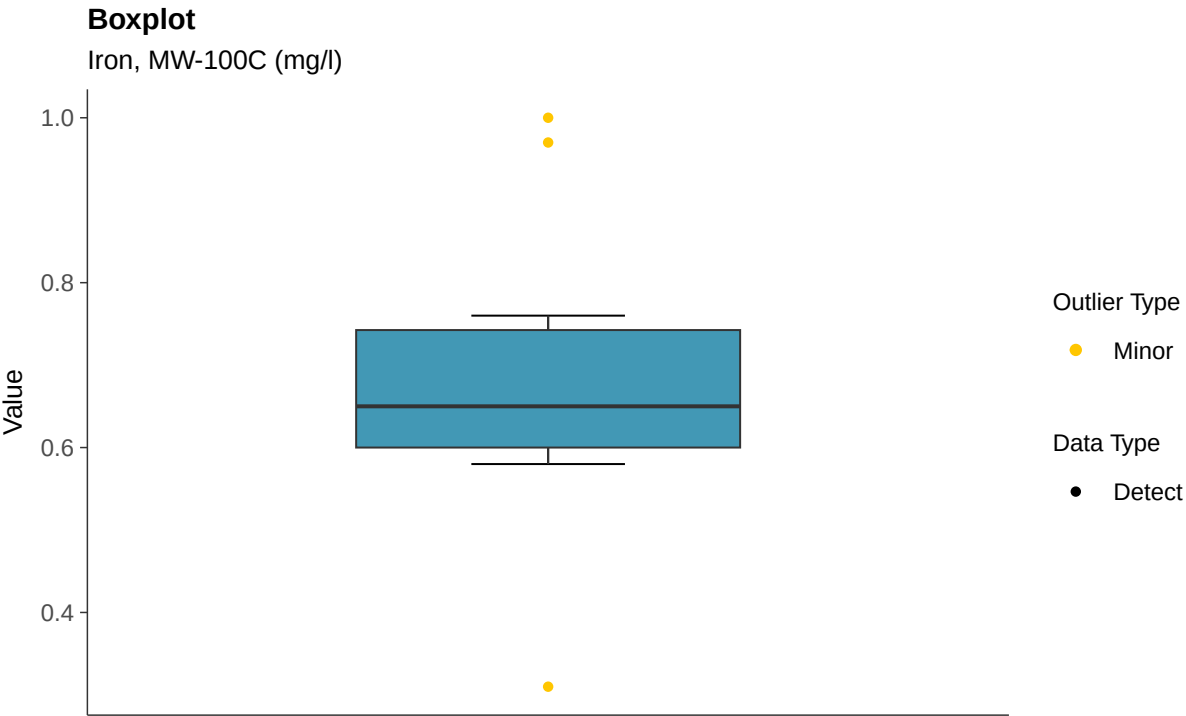


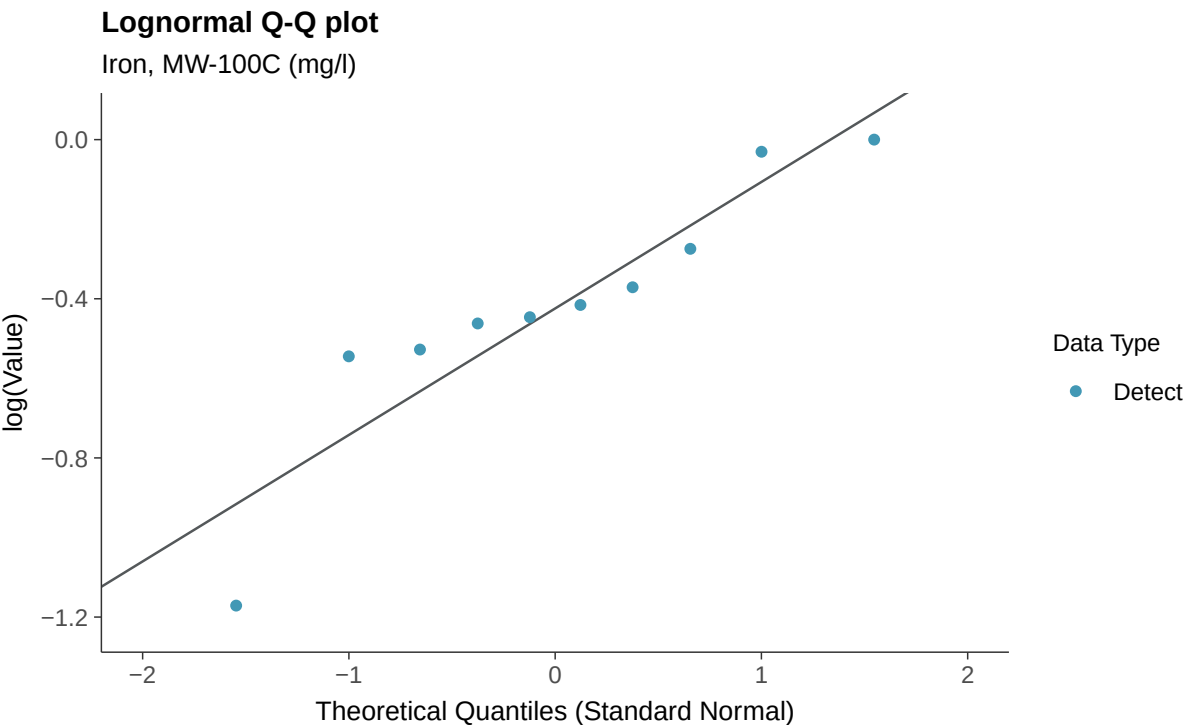
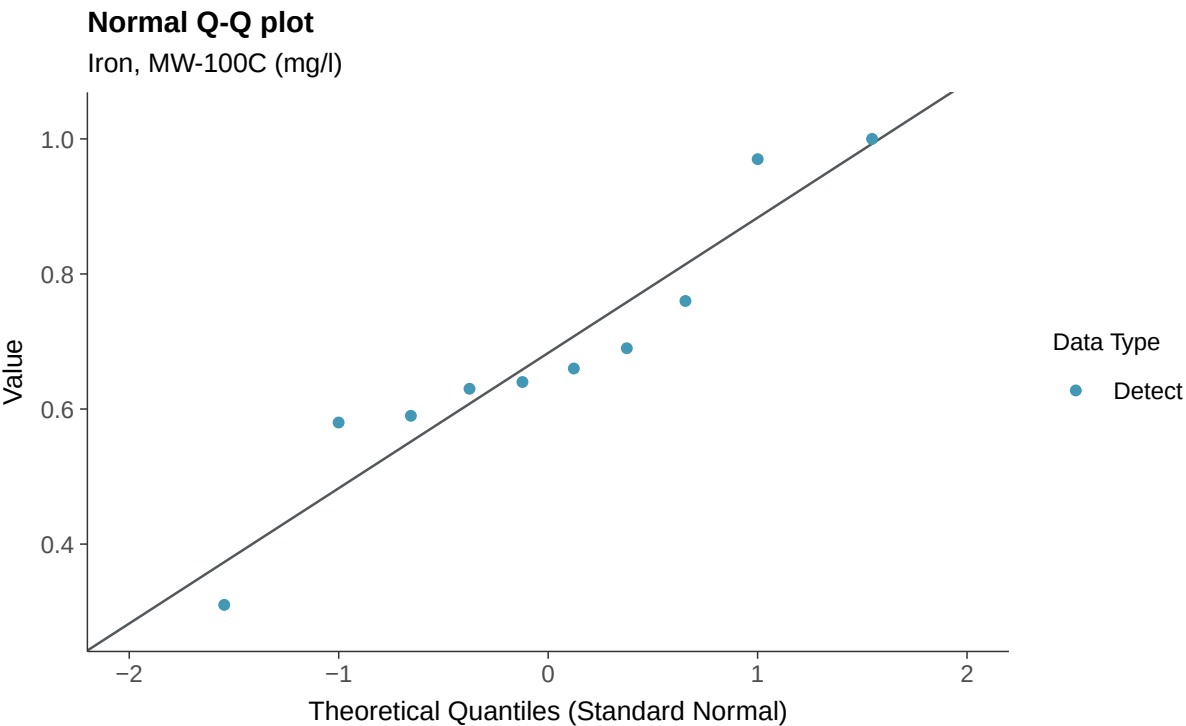


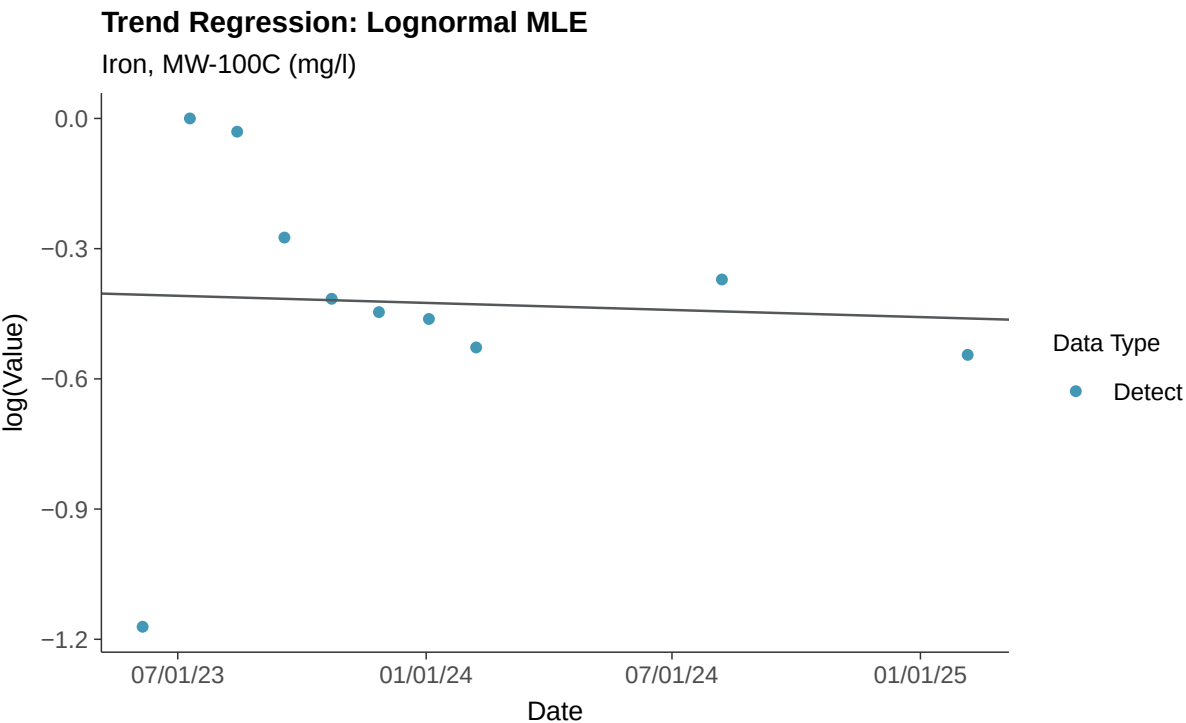
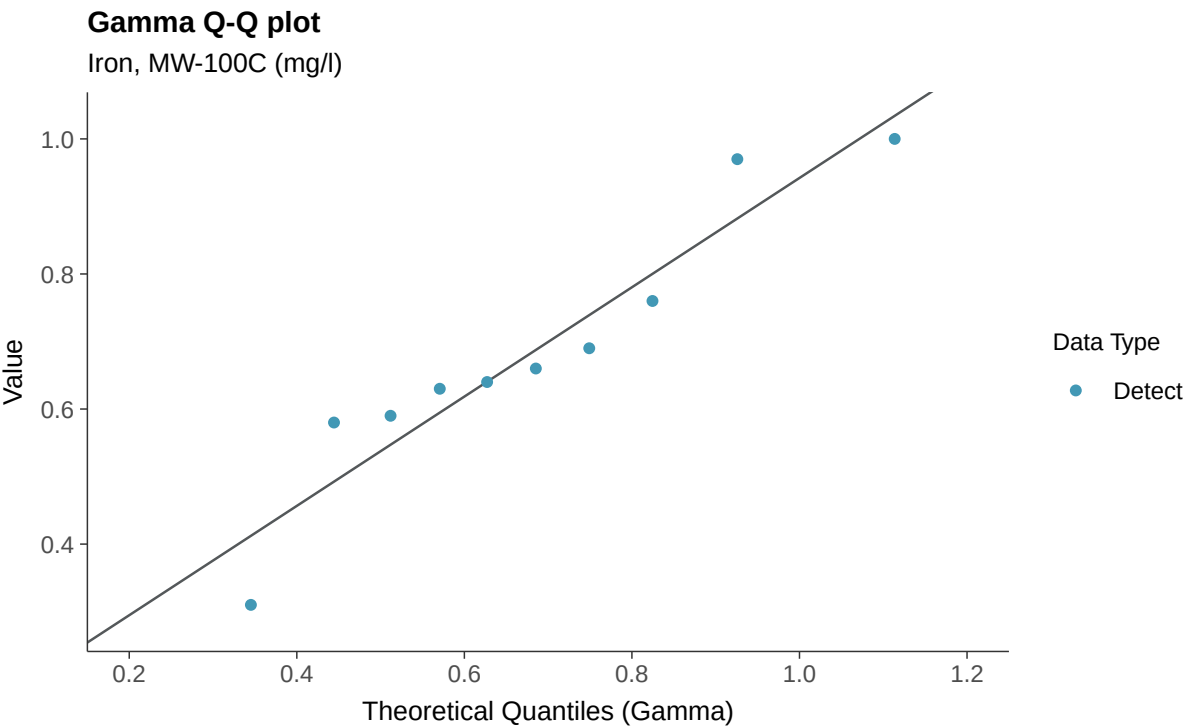
Part 115: Iron, MW-100C

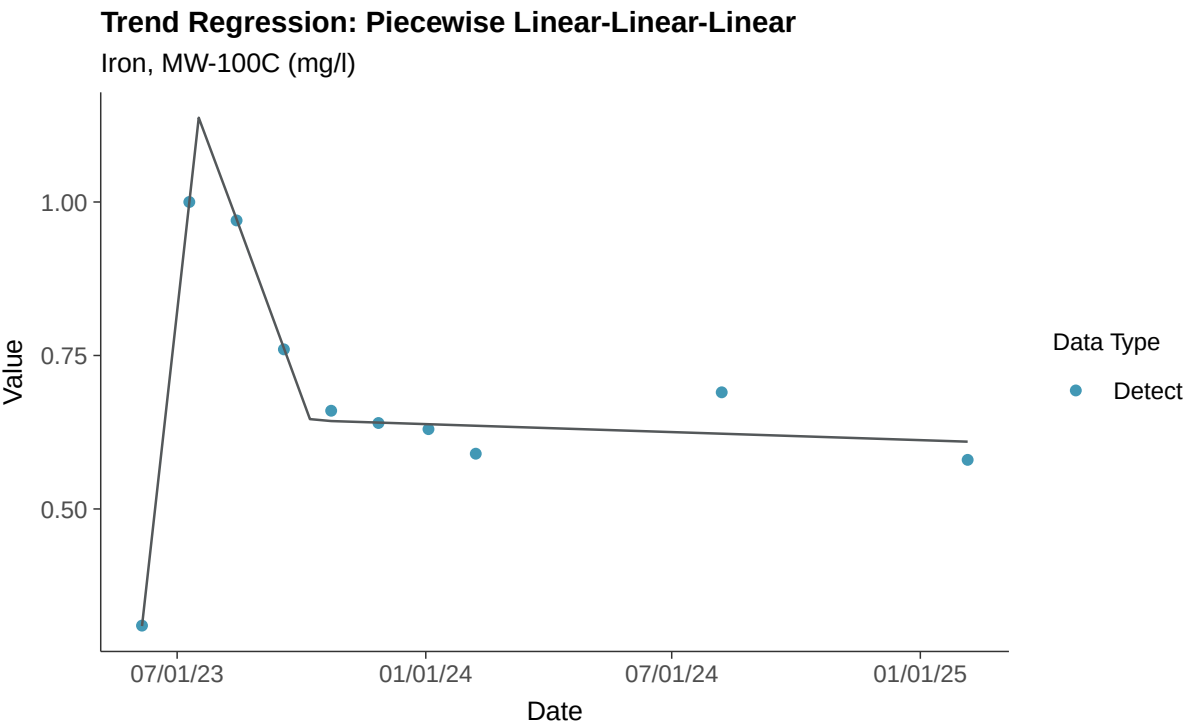
ID: 18_5_114







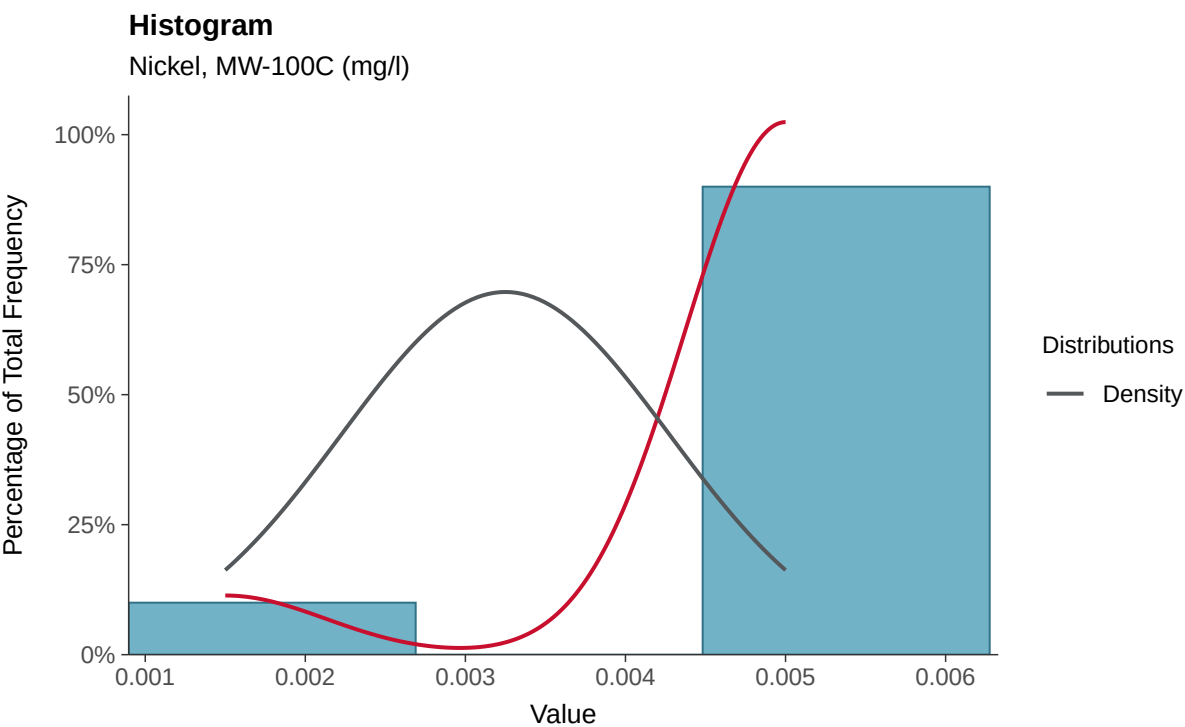
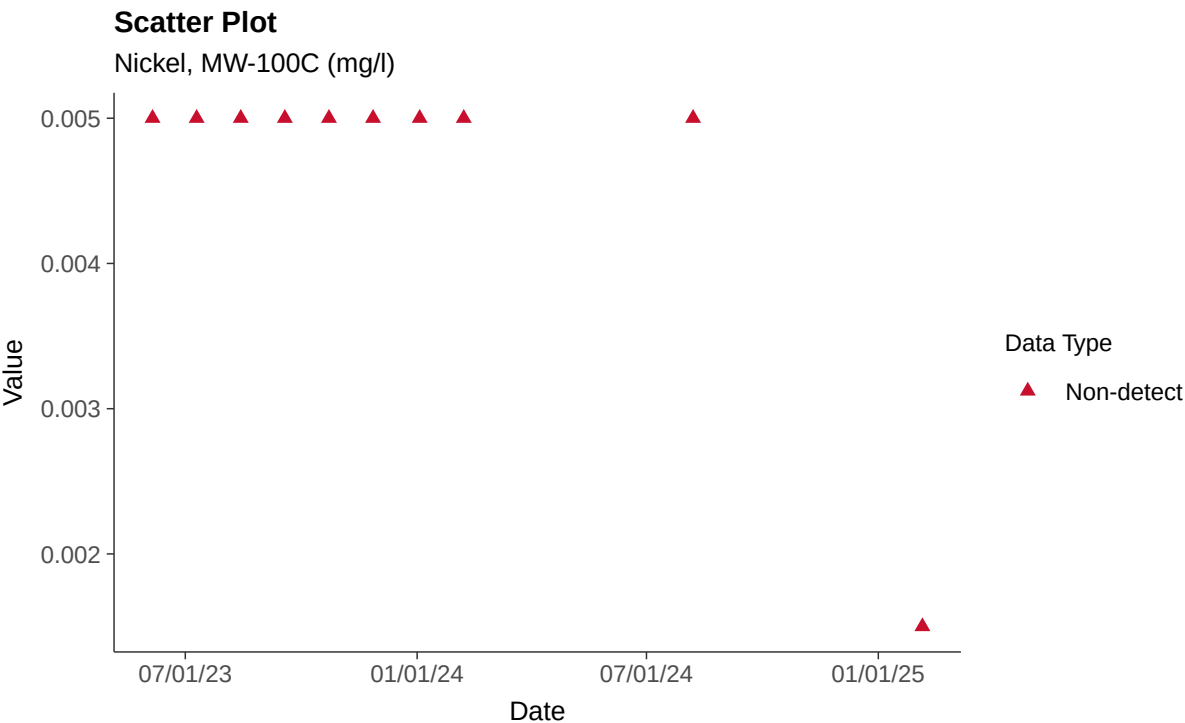


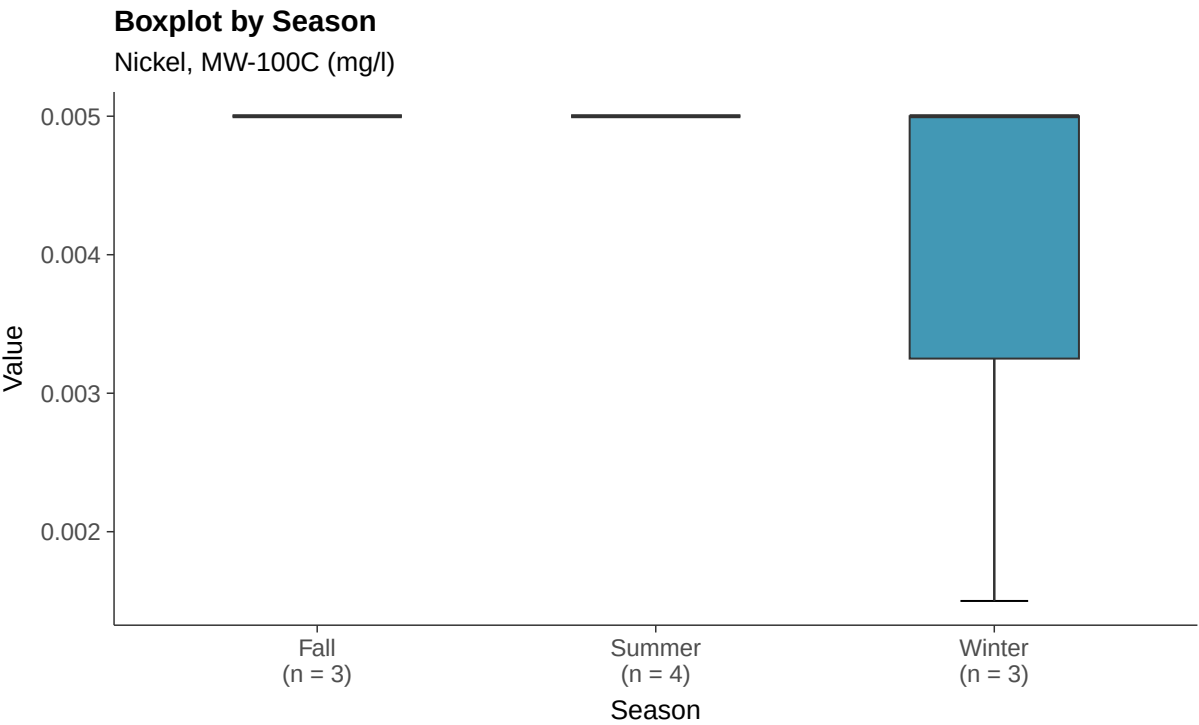
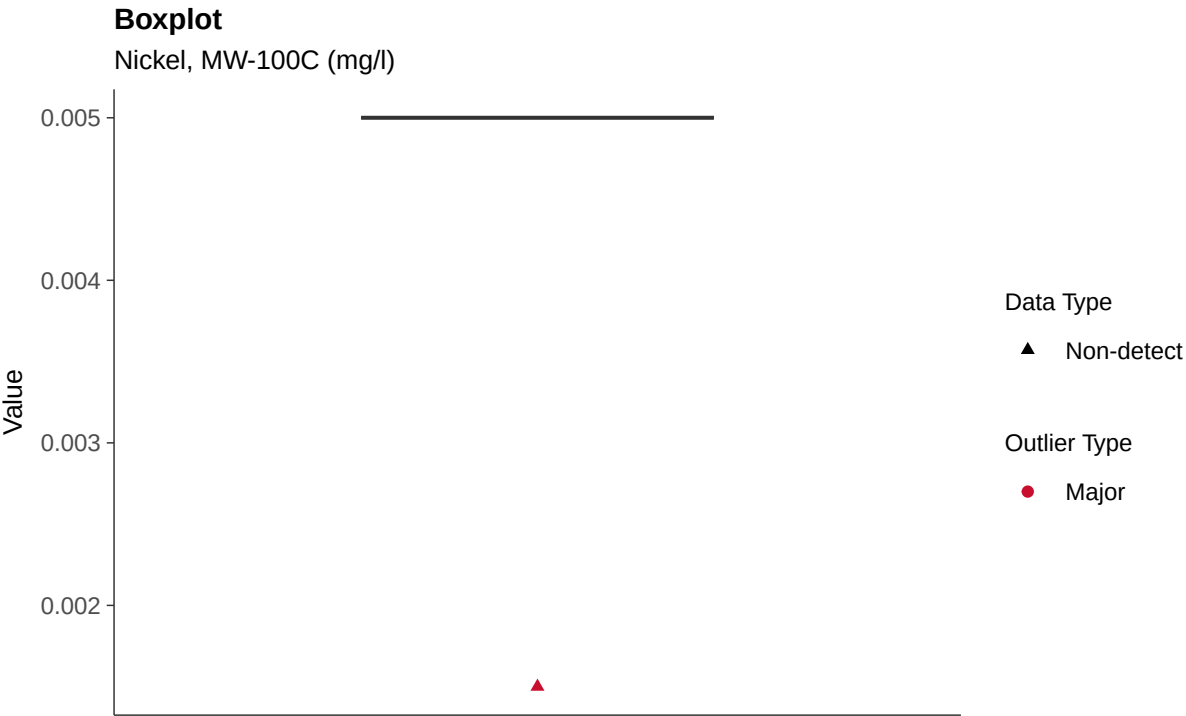




Part 115: Nickel, MW-100C

ID: 18_5_119

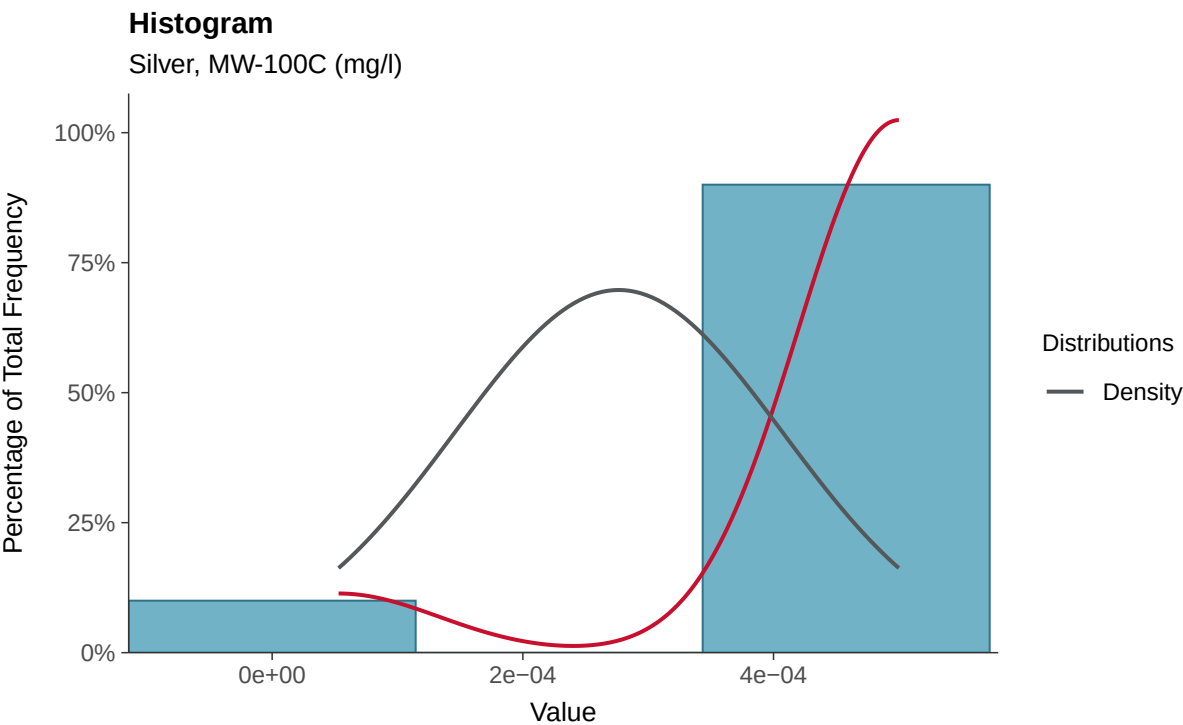
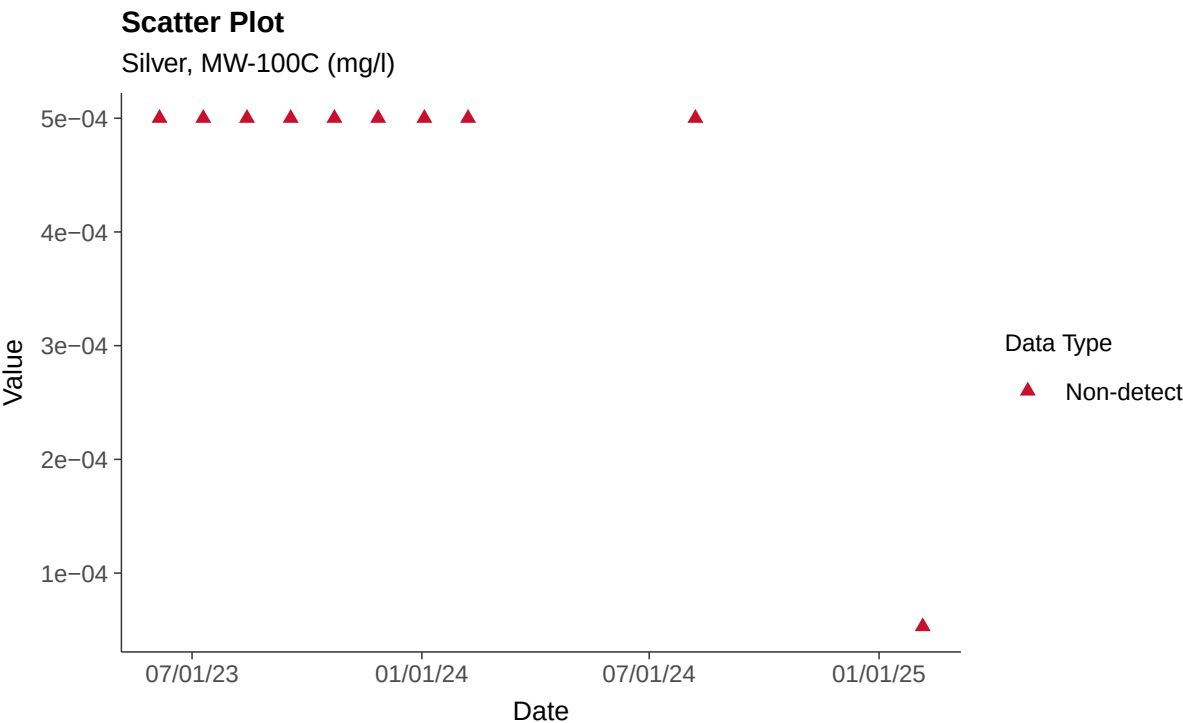


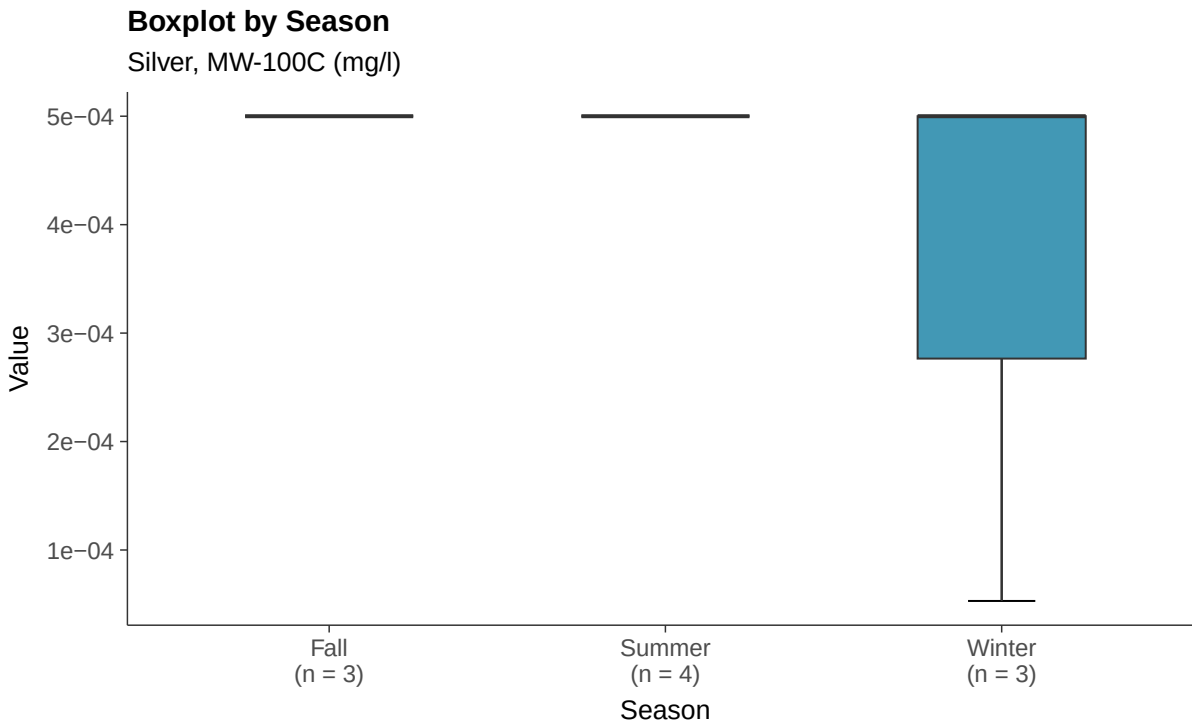
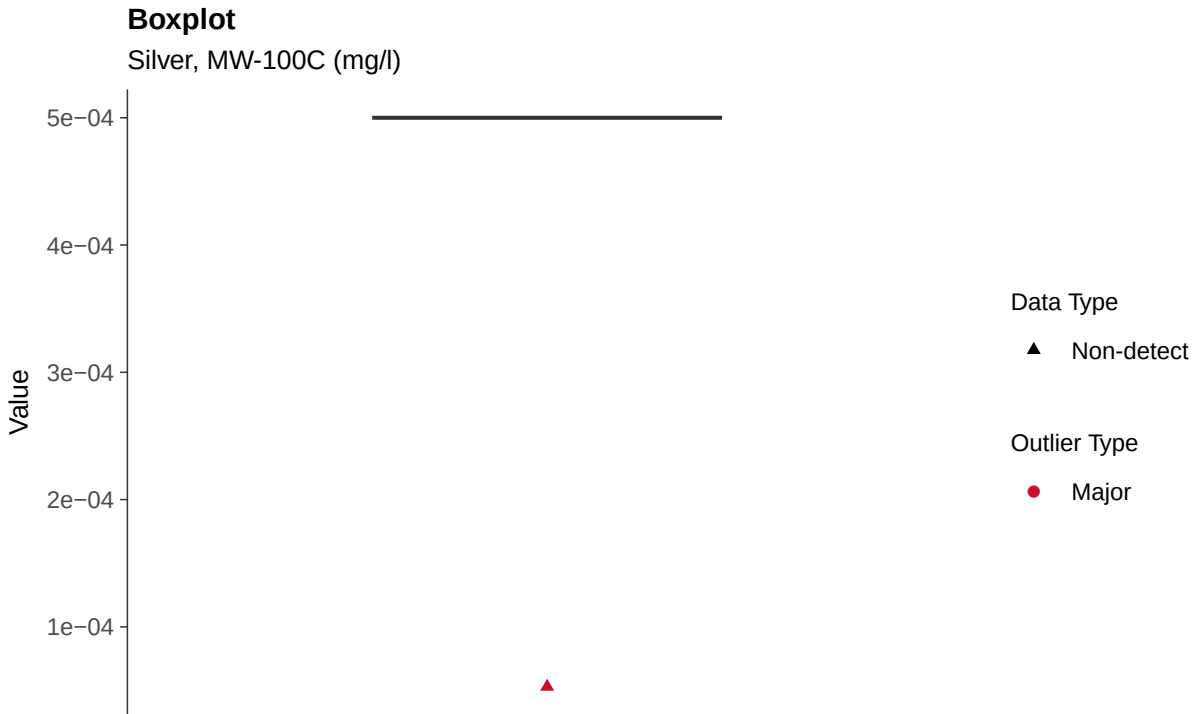




Part 115: Silver, MW-100C

ID: 18_5_123

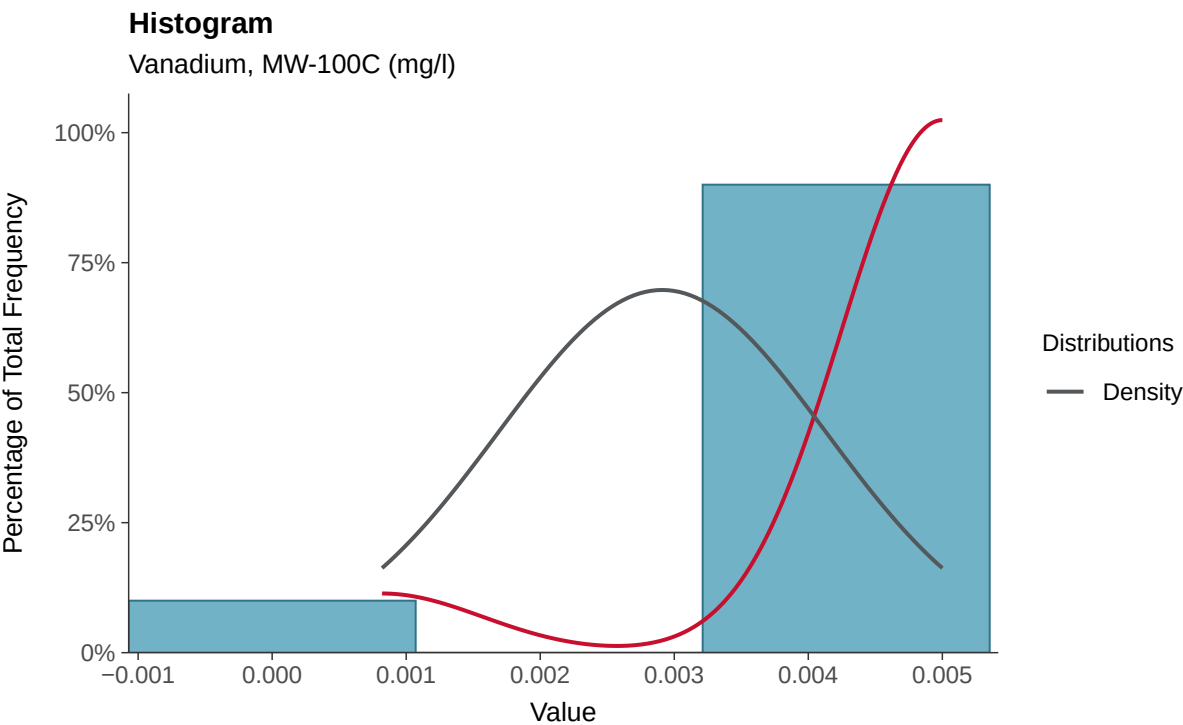
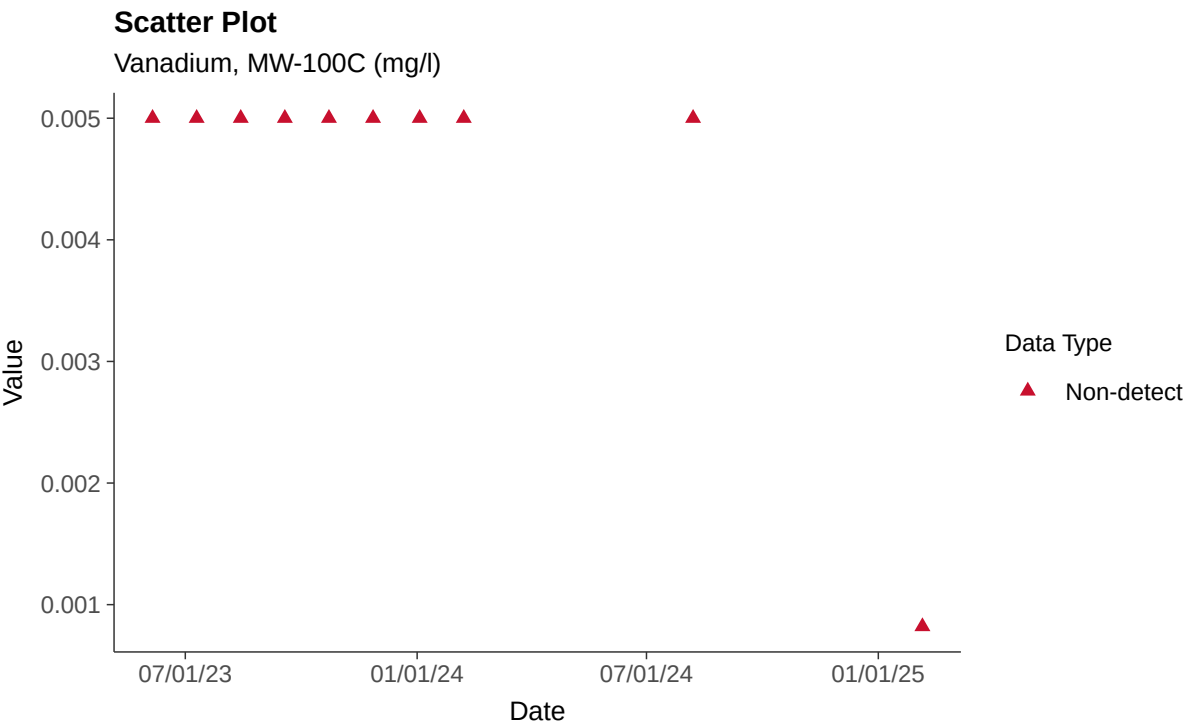


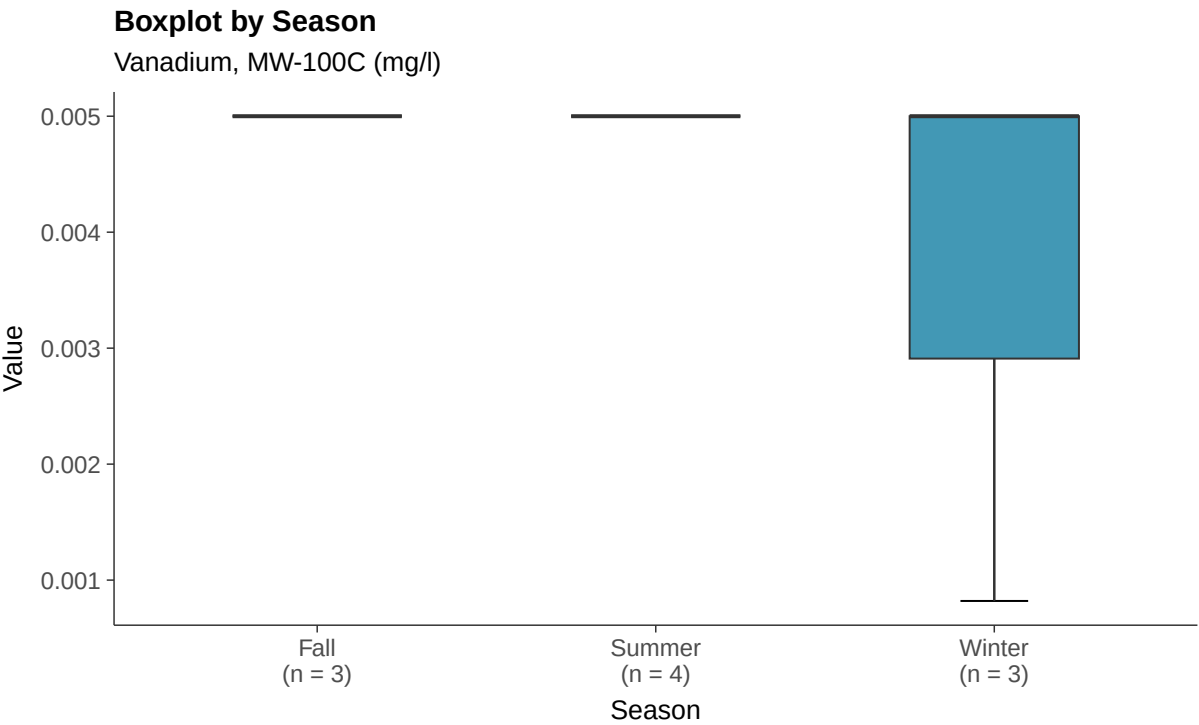
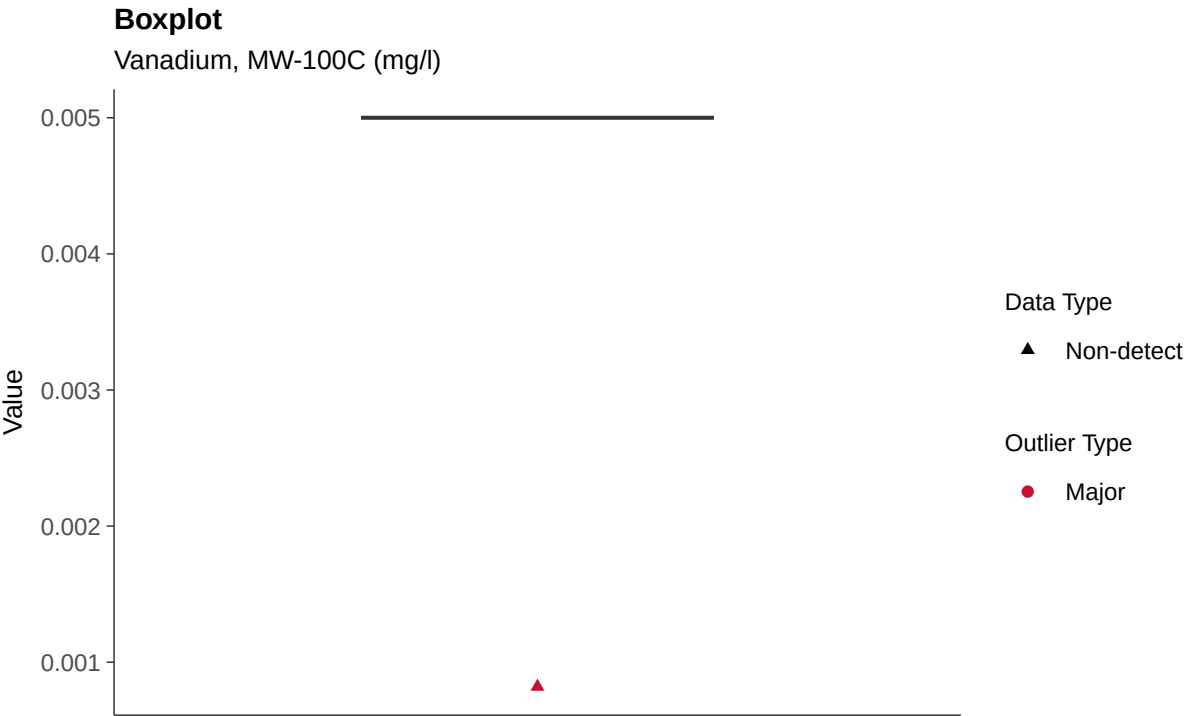




Part 115: Vanadium, MW-100C

ID: 18_5_128

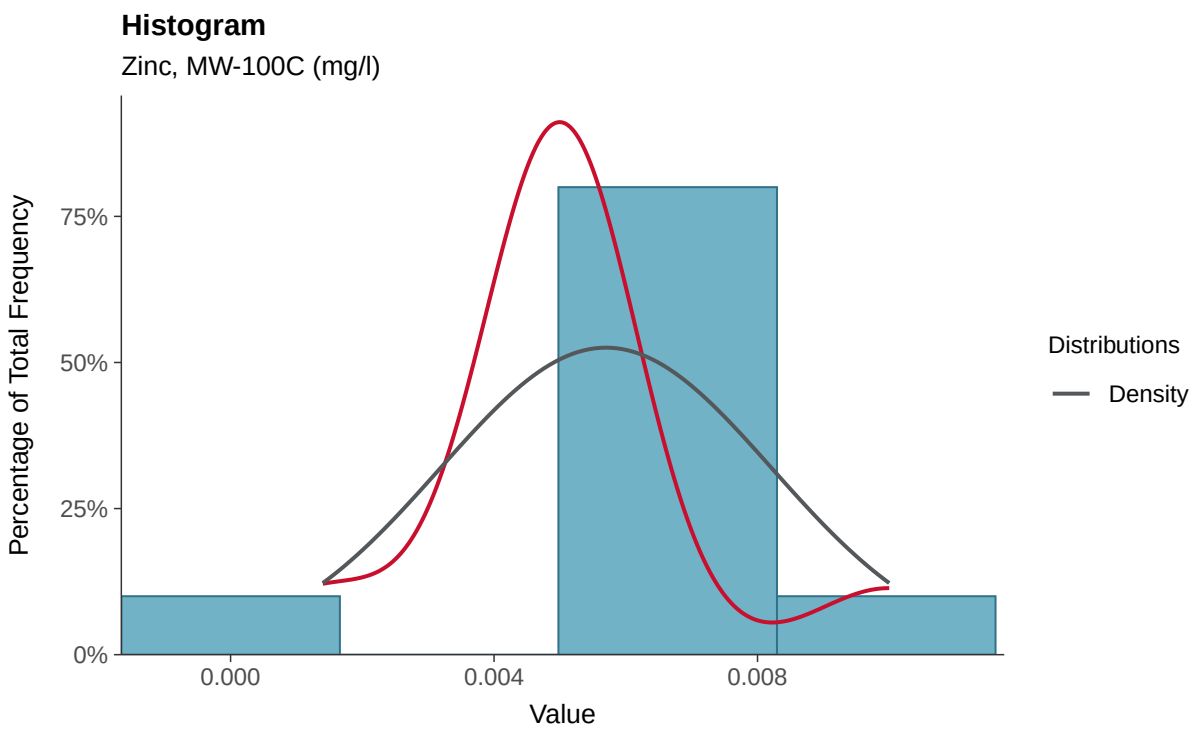
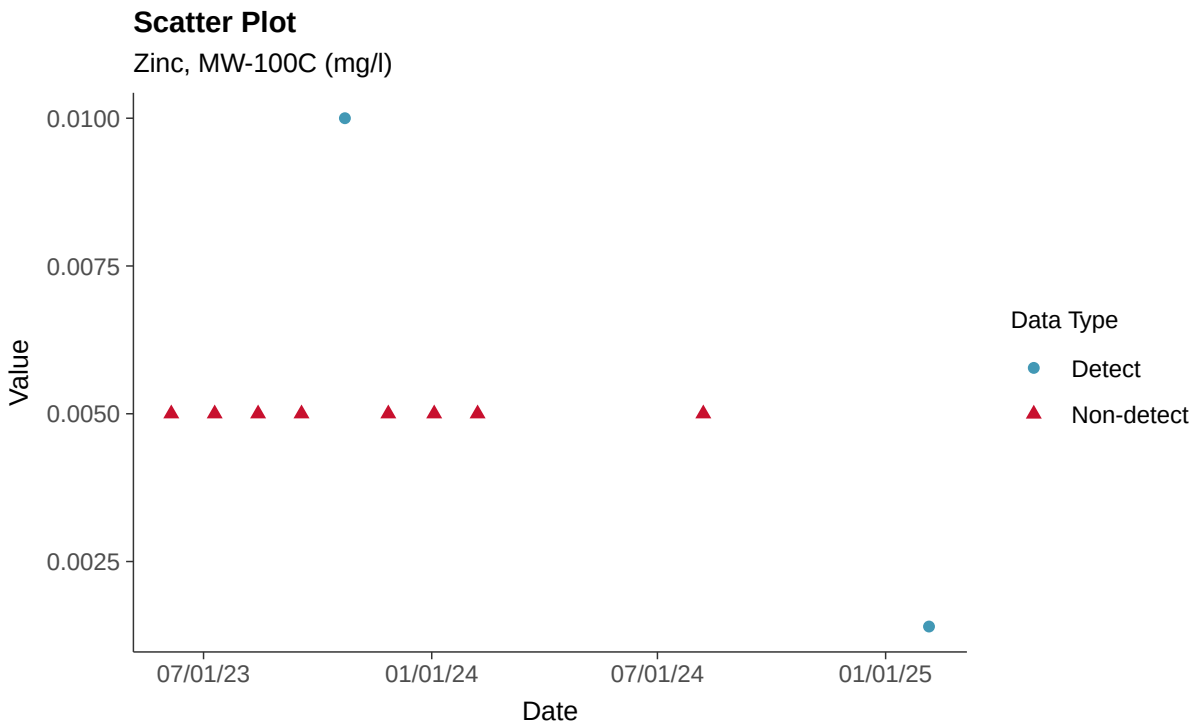


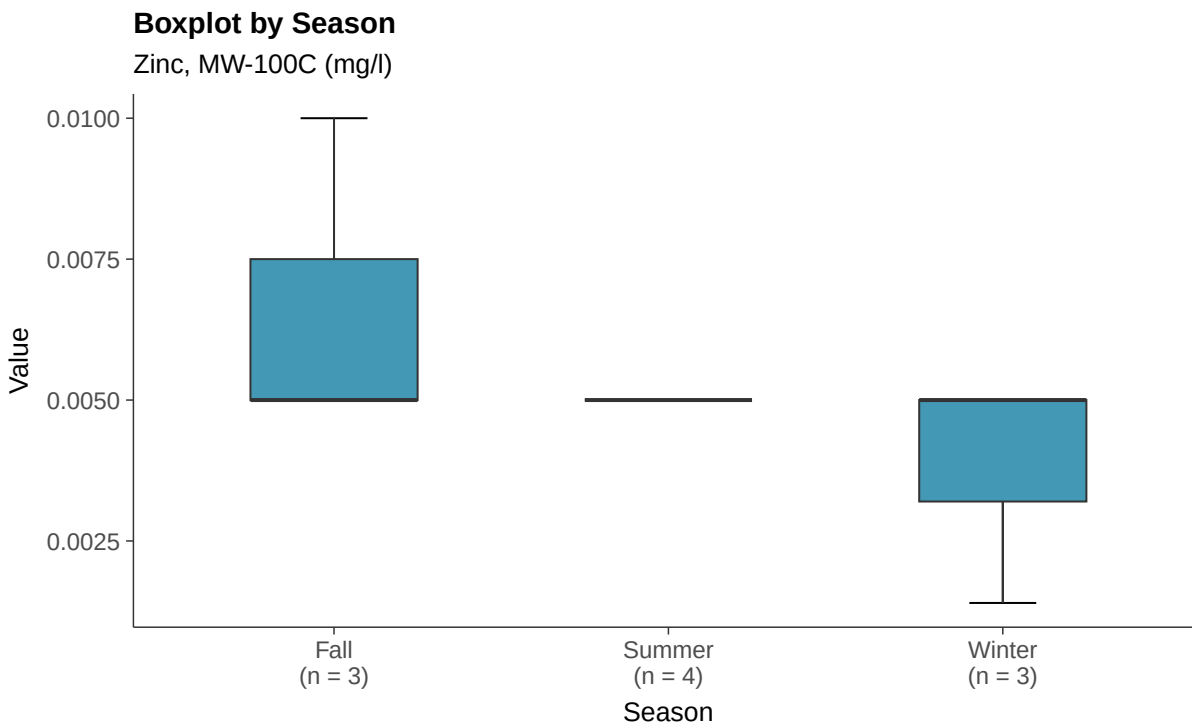
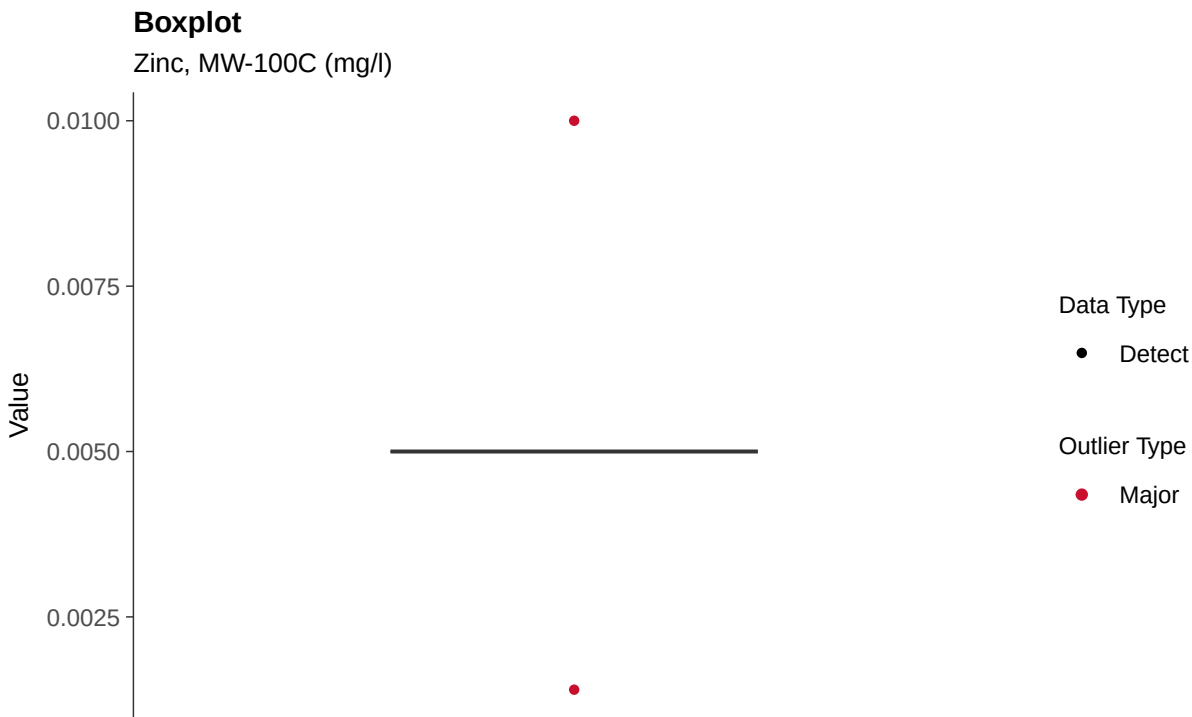


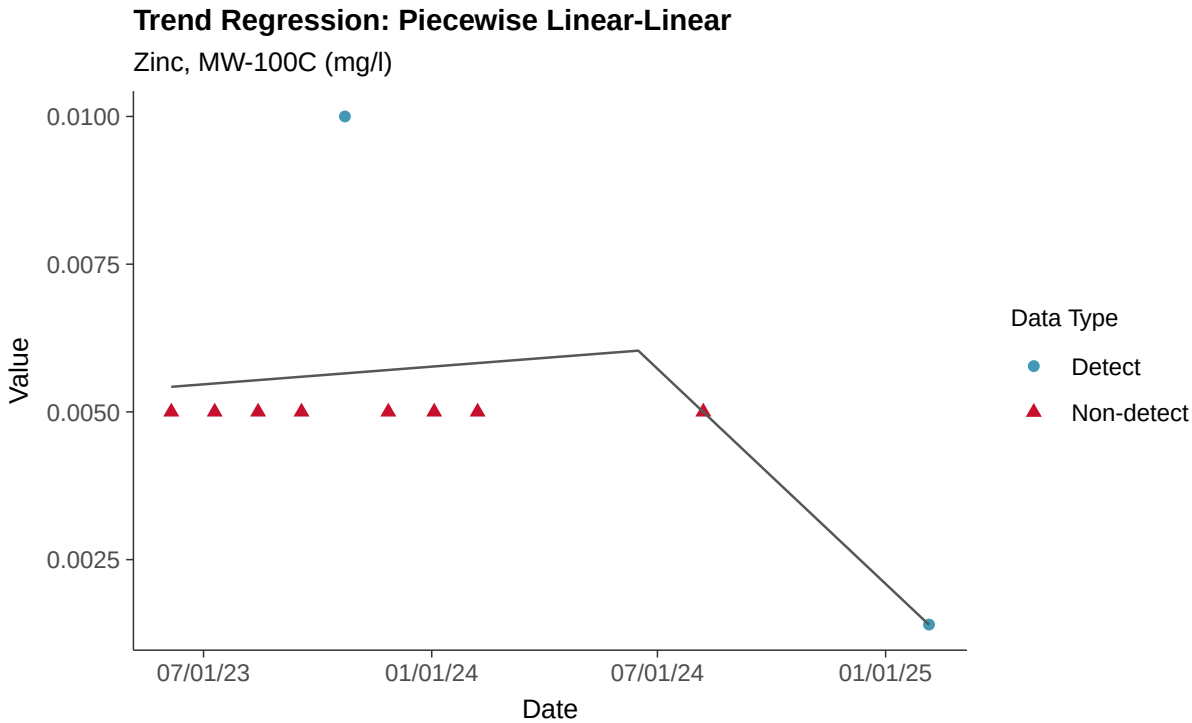
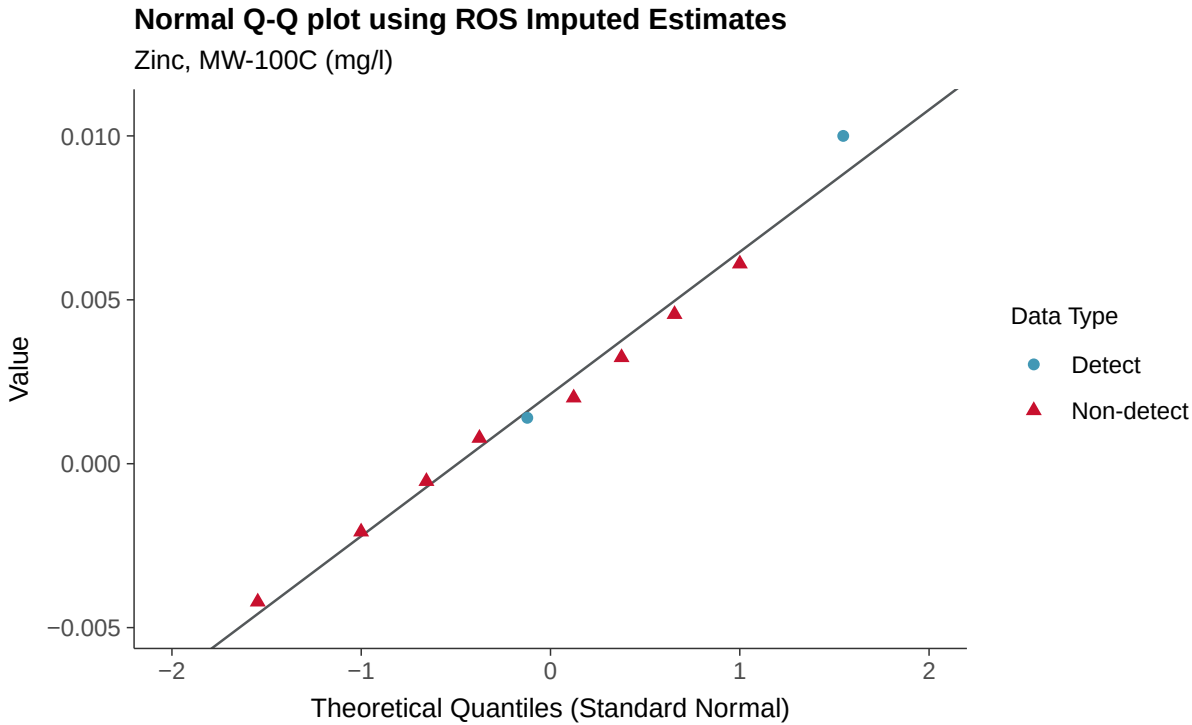


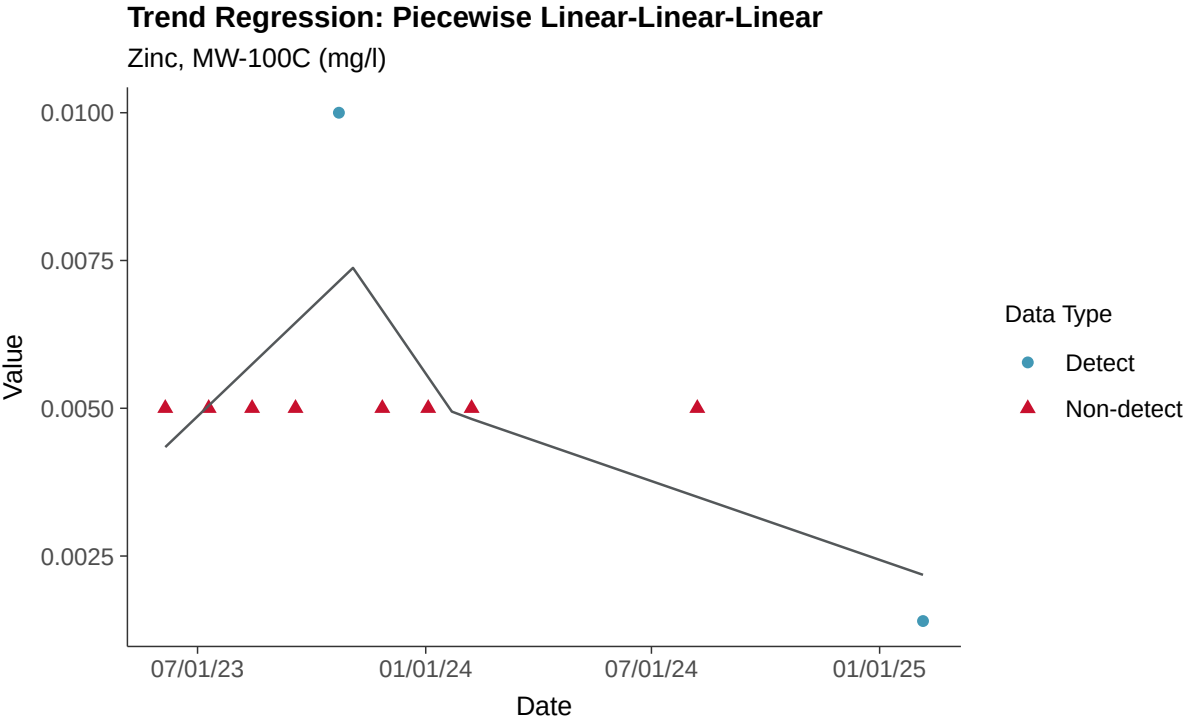
Part 115: Zinc, MW-100C

ID: 18_5_129





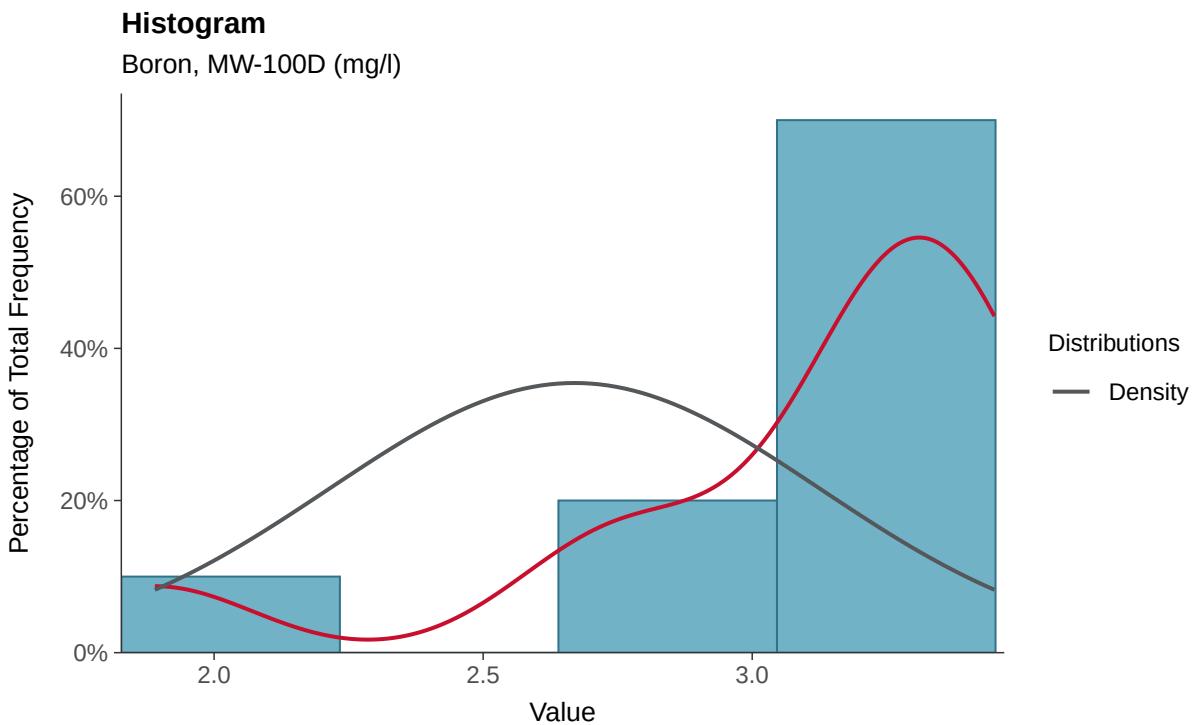
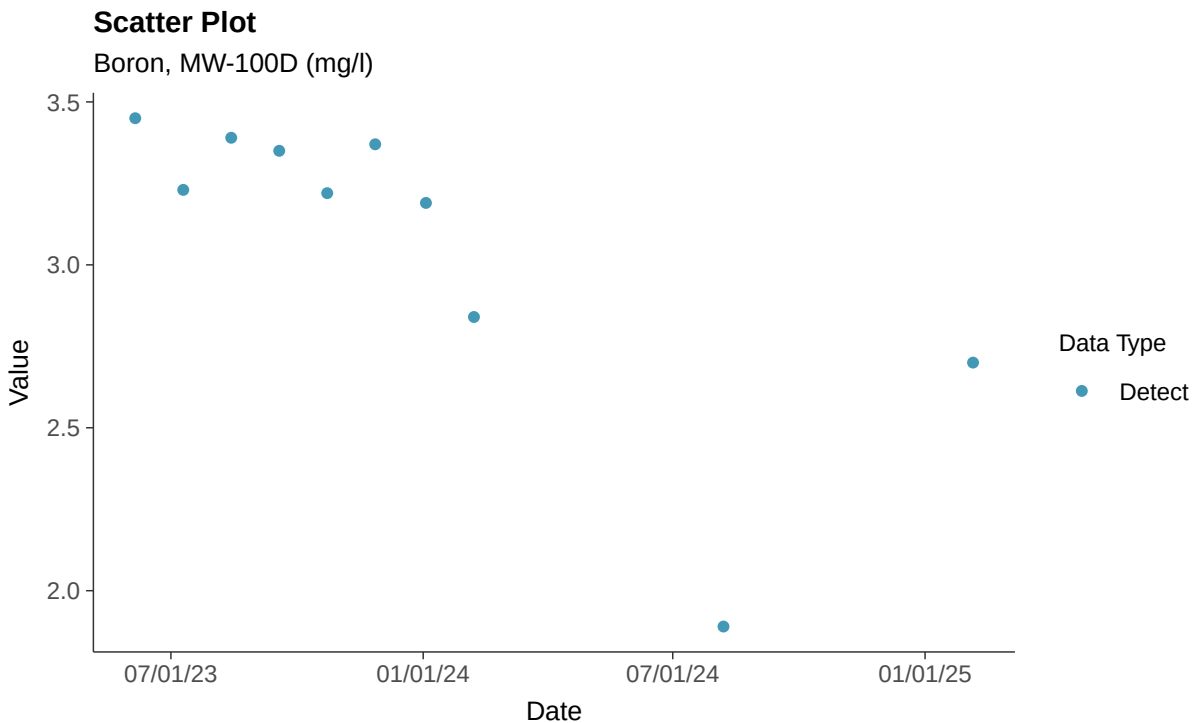


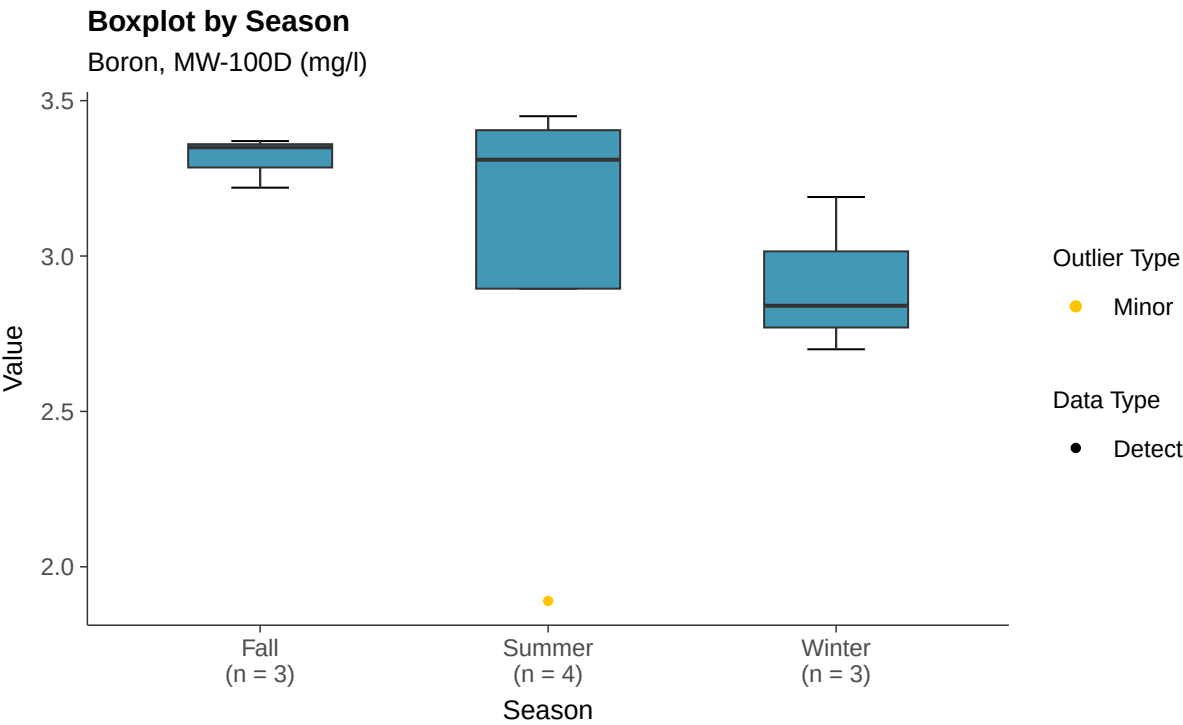
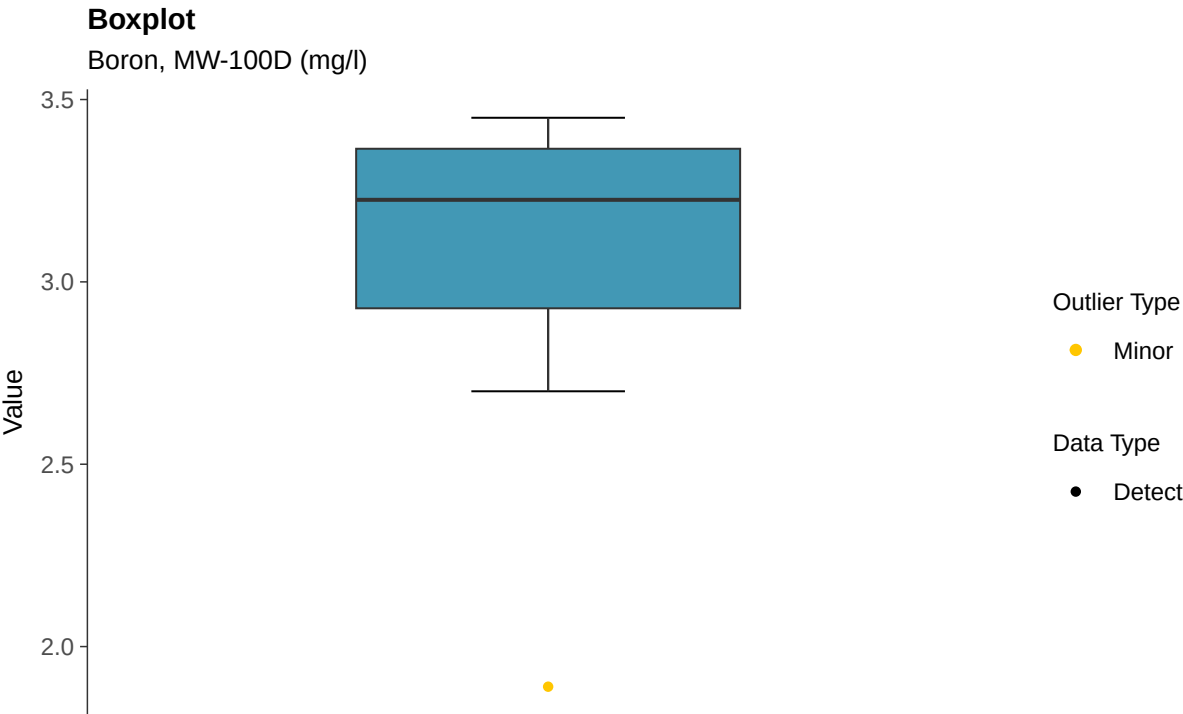


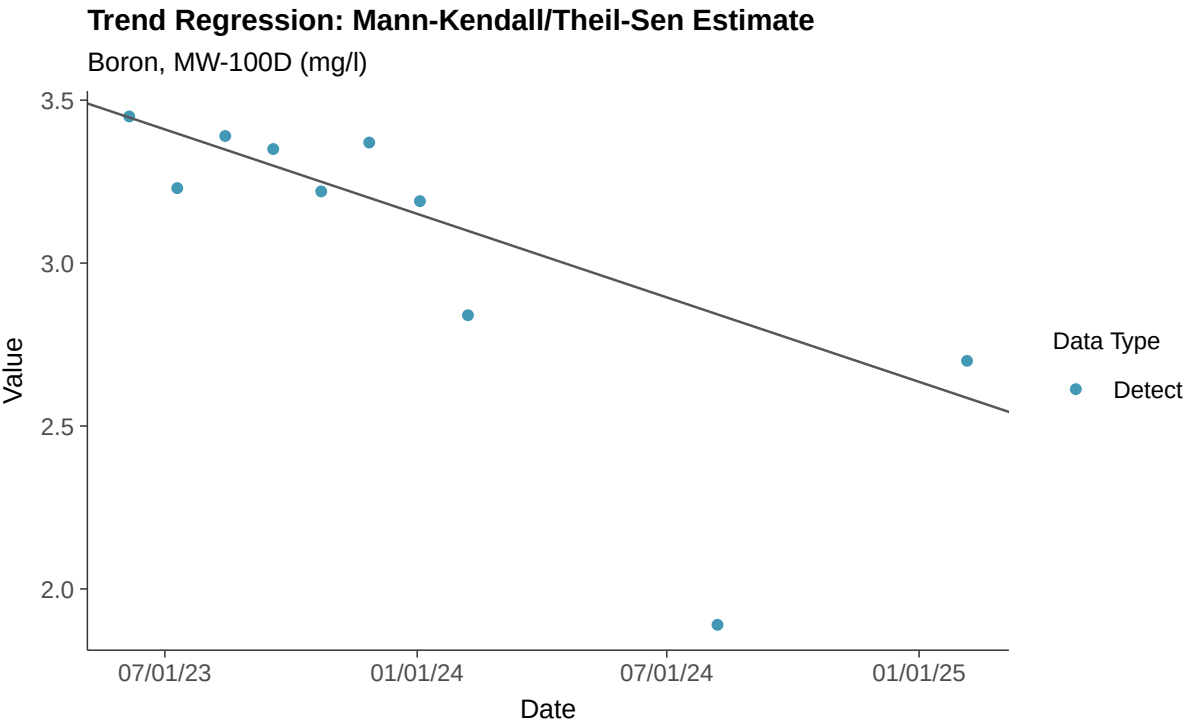
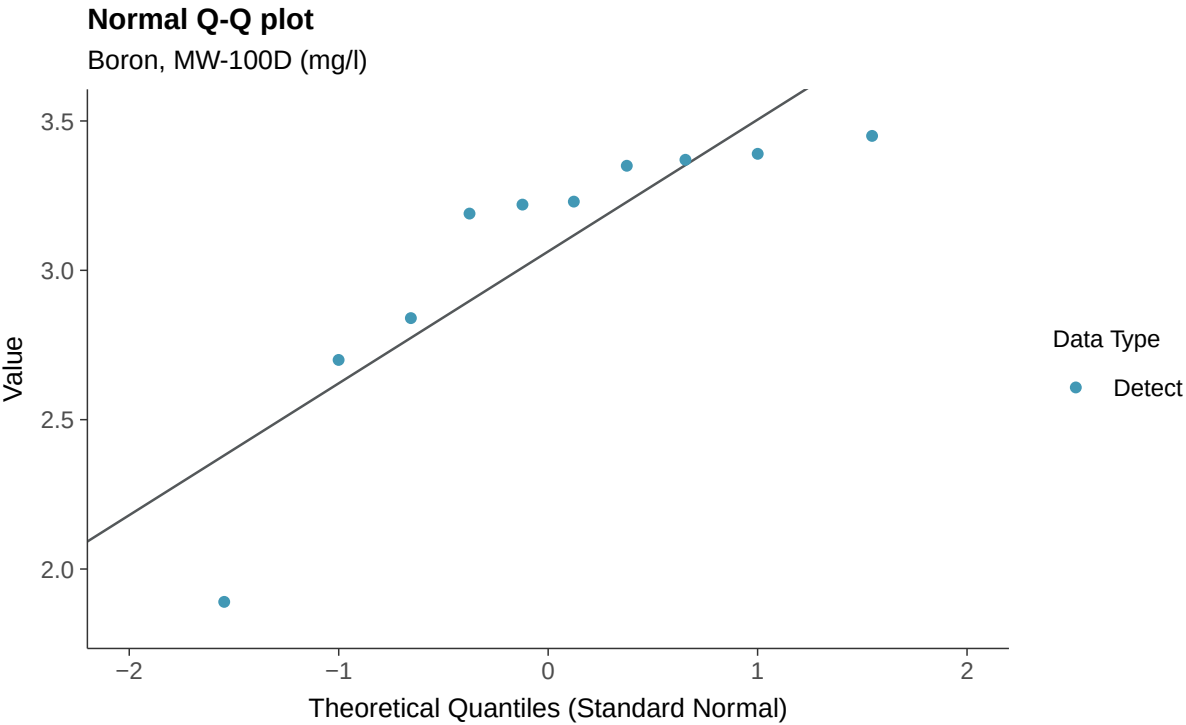


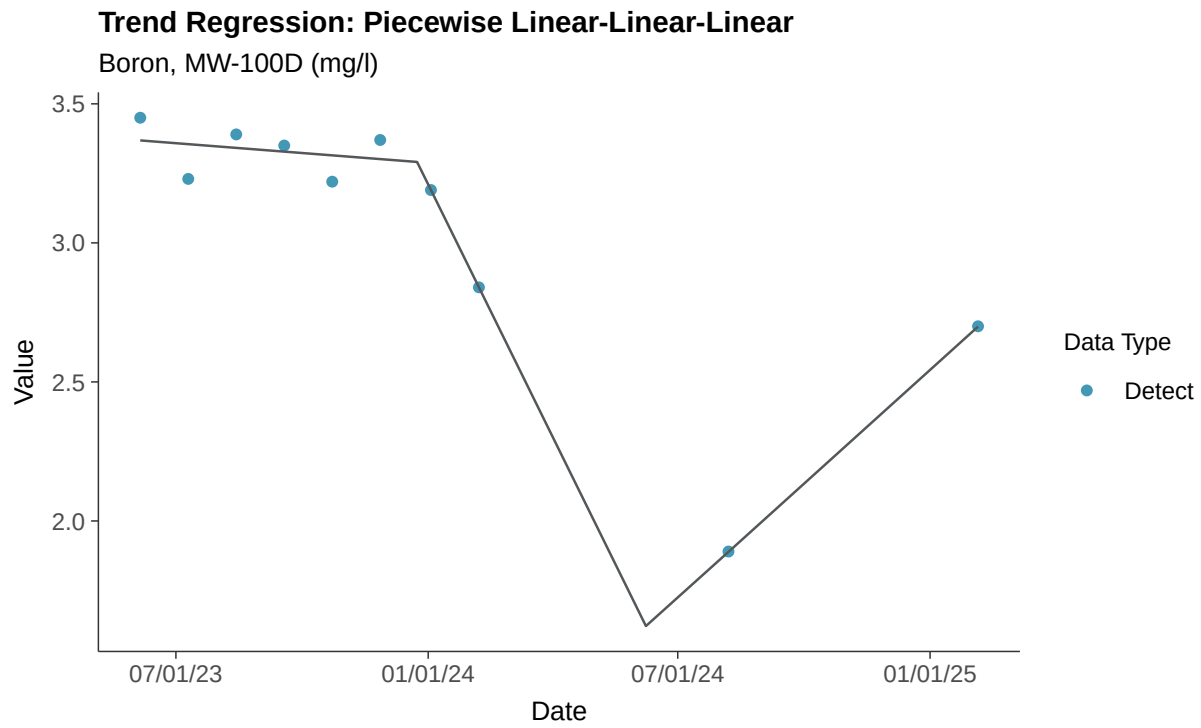
Appendix III: Boron, MW-100D

ID: 19_2_105





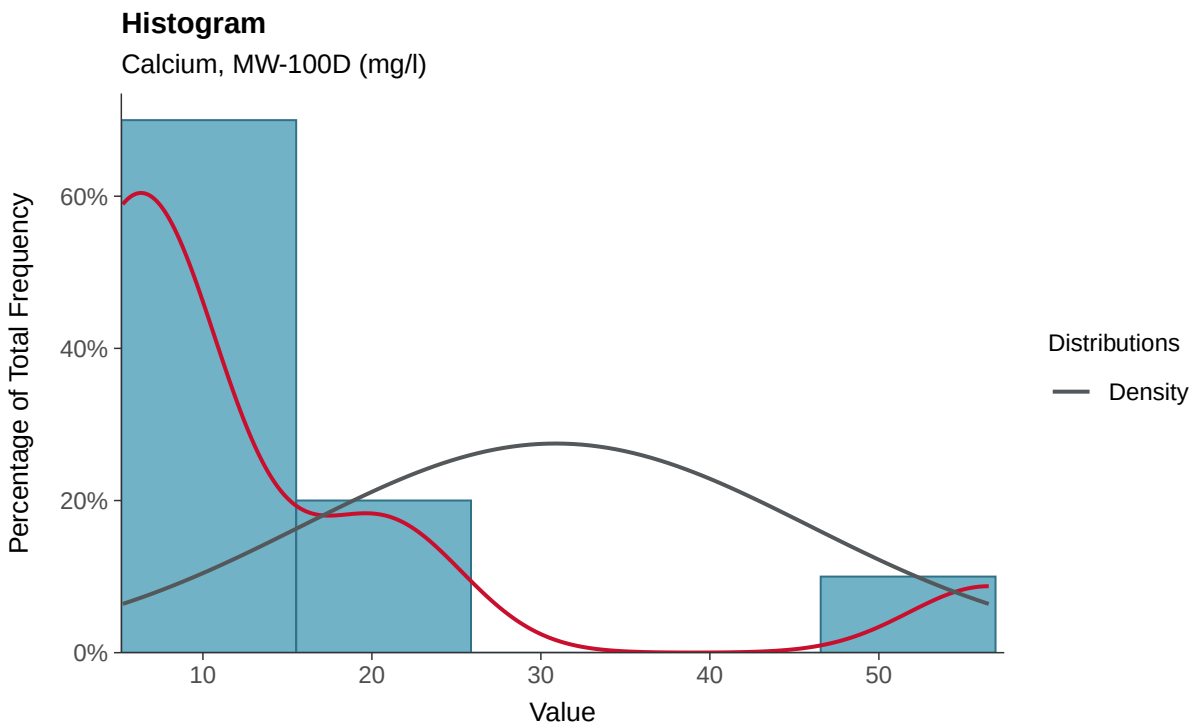
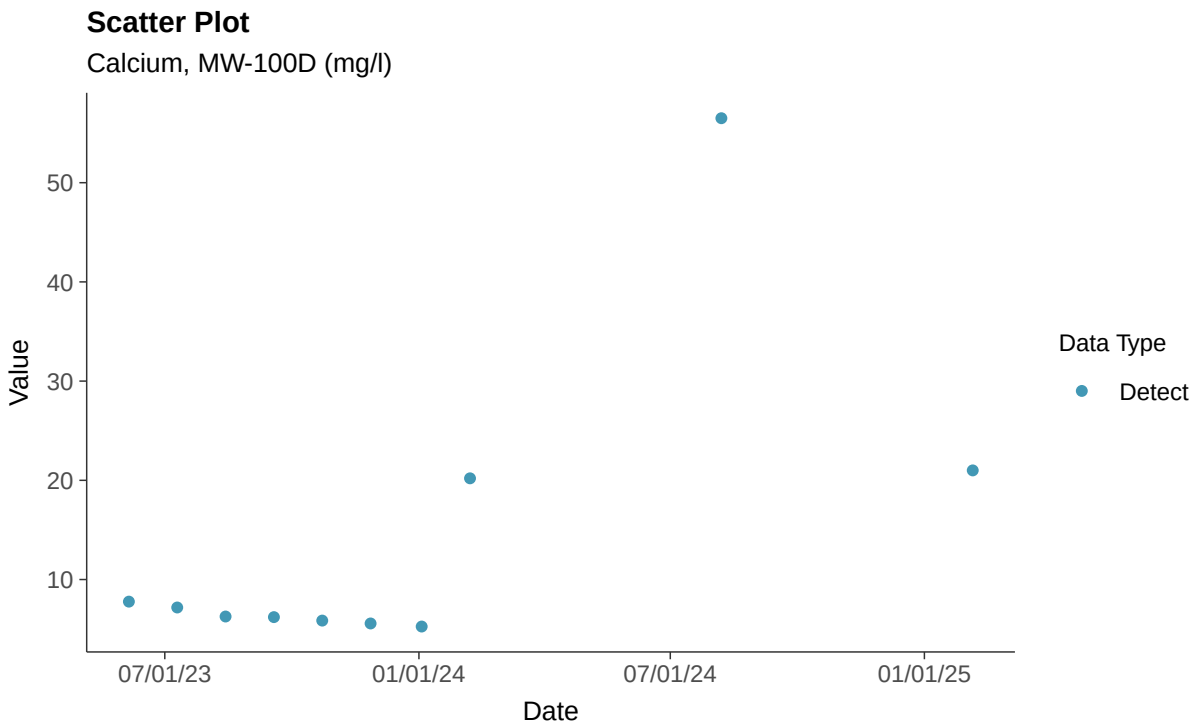


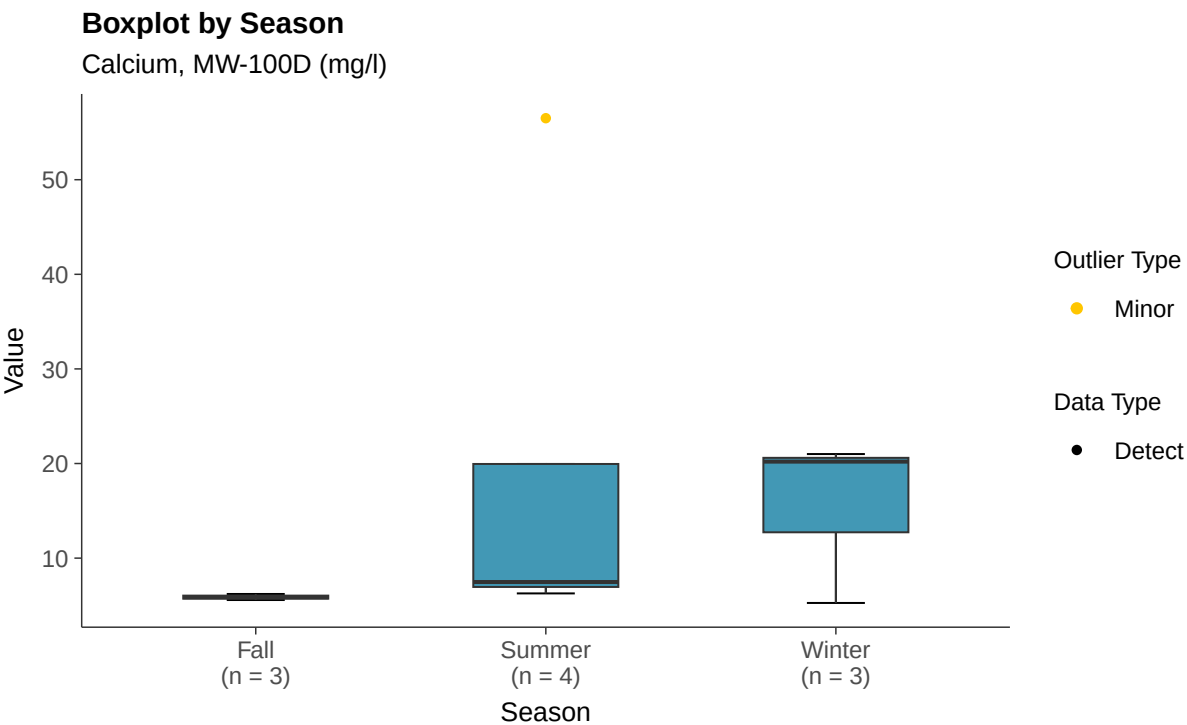
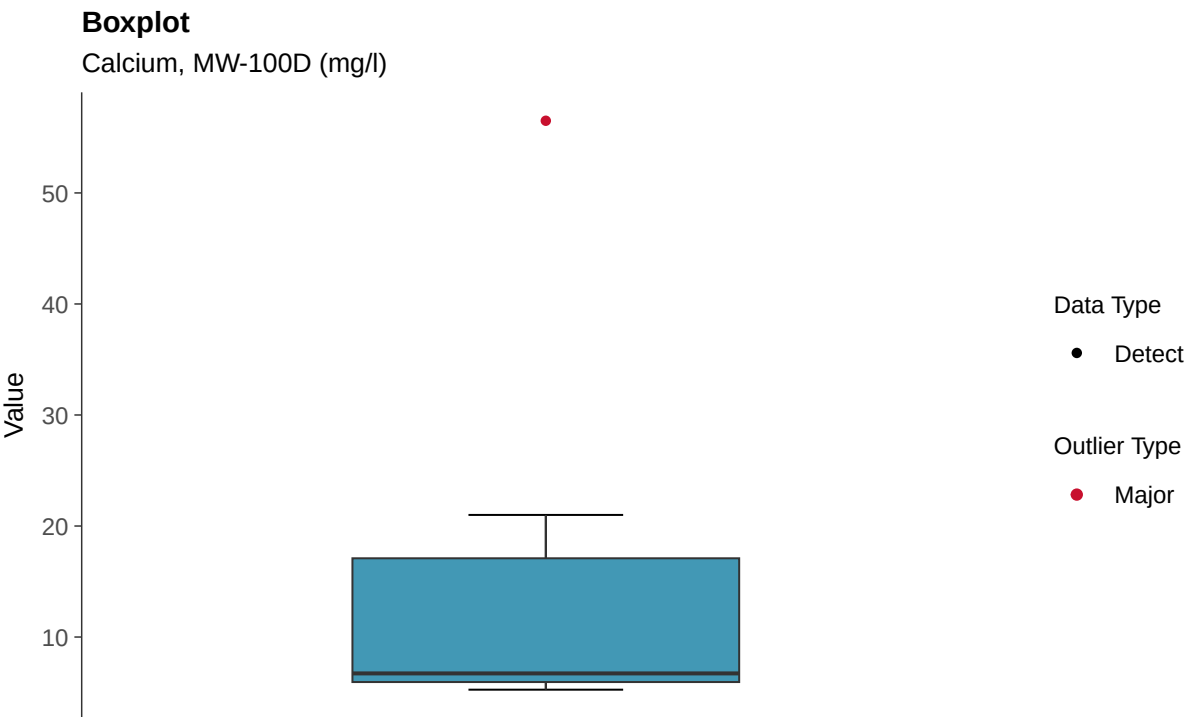


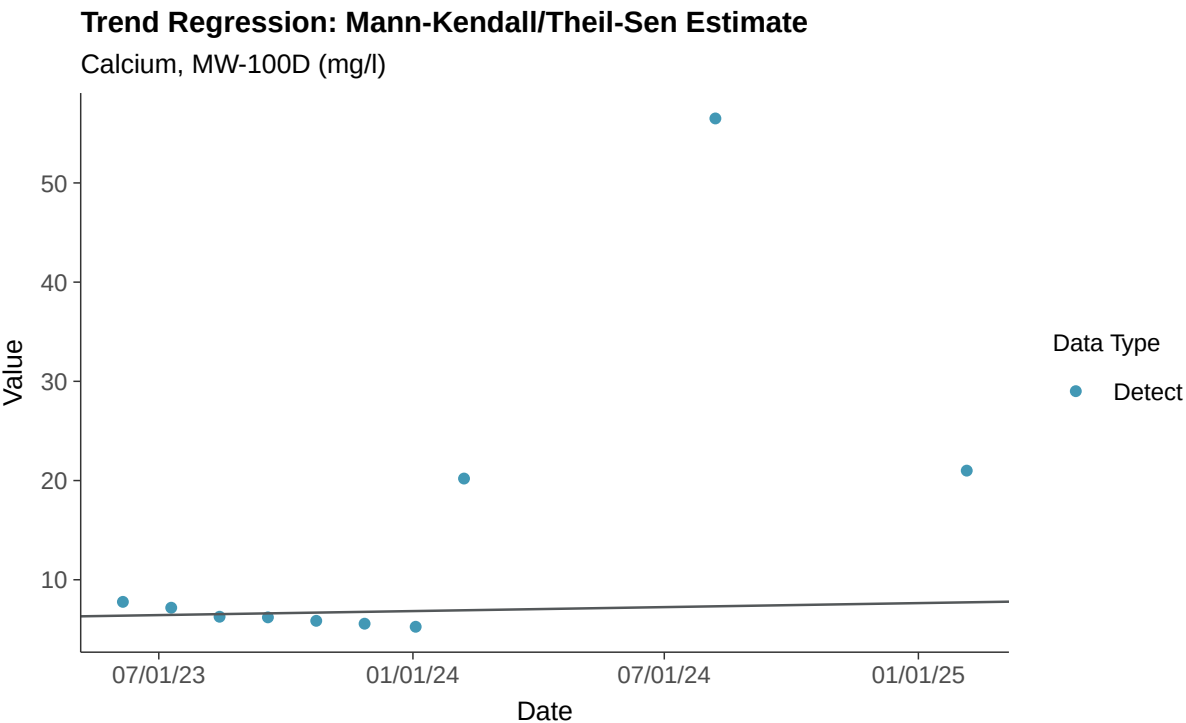
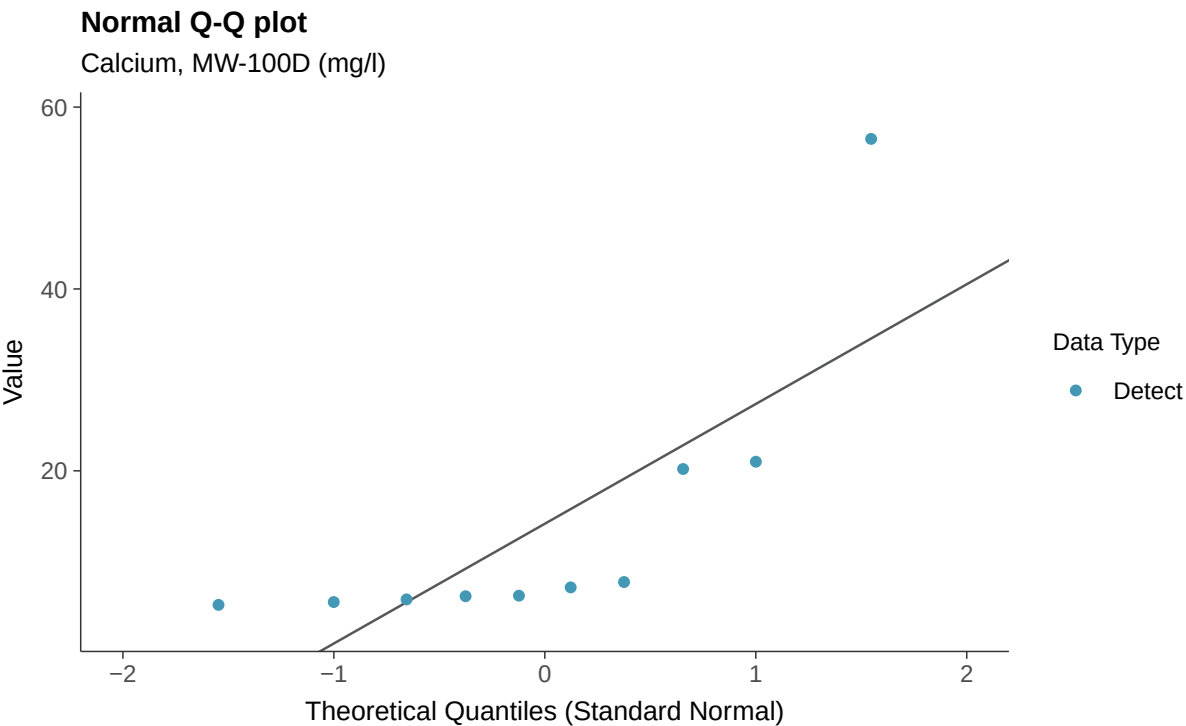


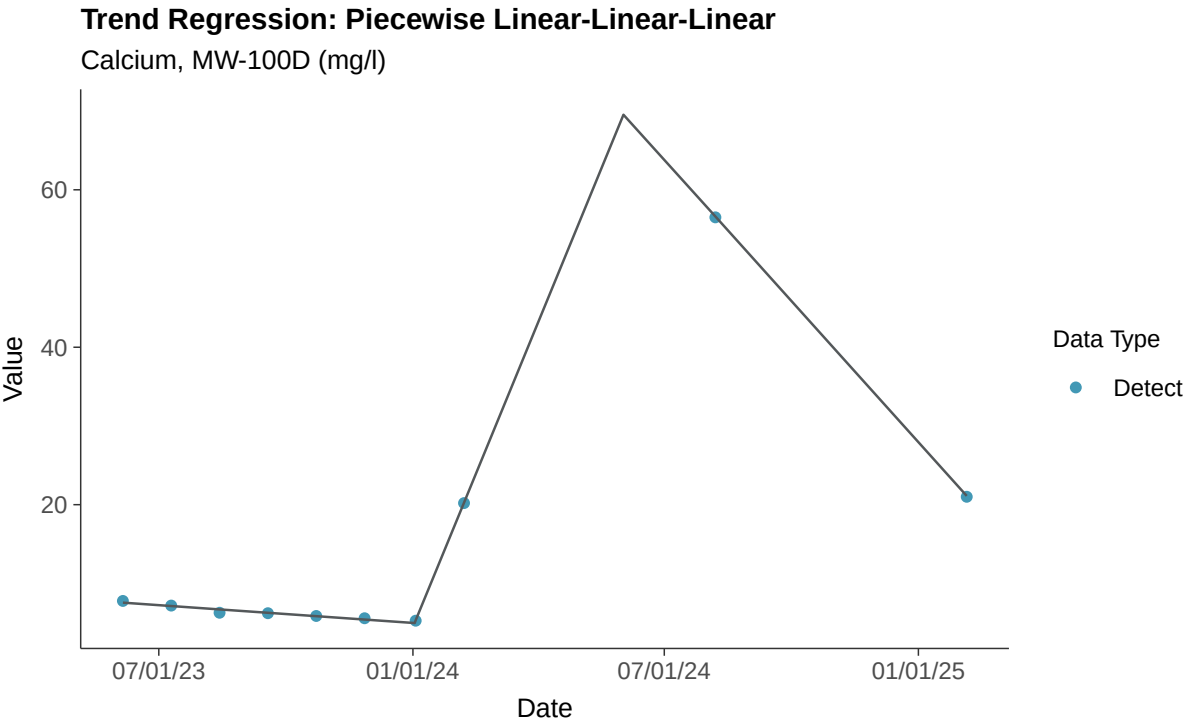
Appendix III: Calcium, MW-100D

ID: 19_2_107





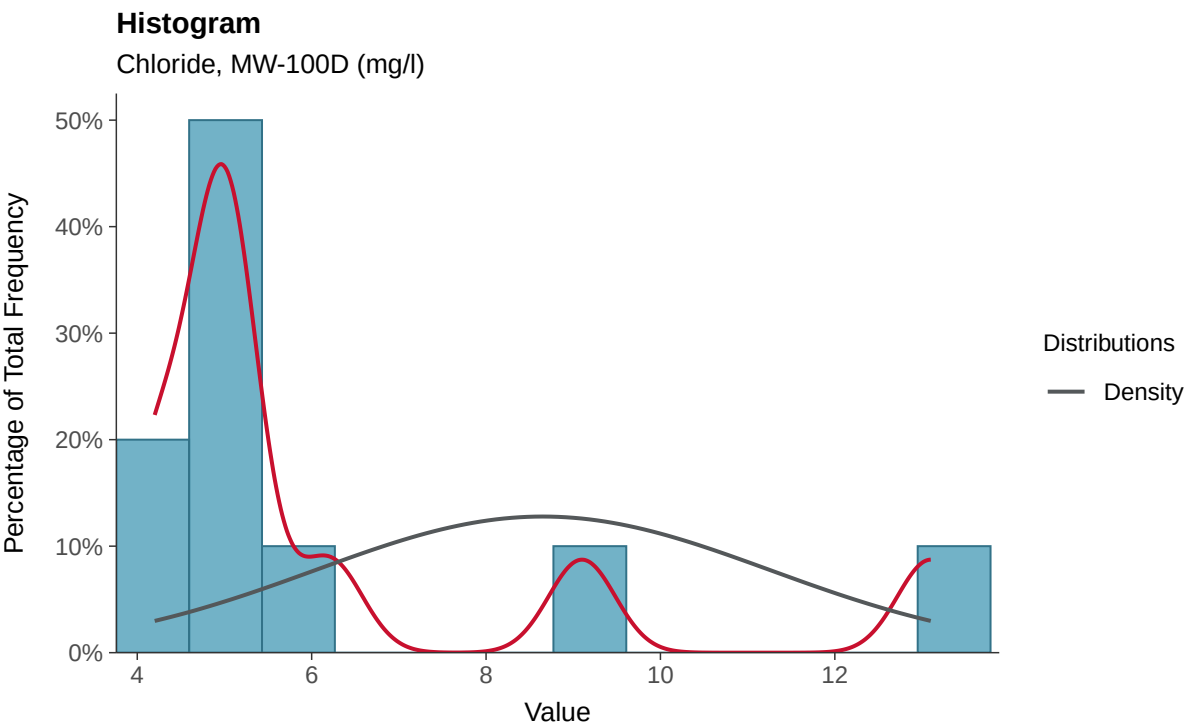
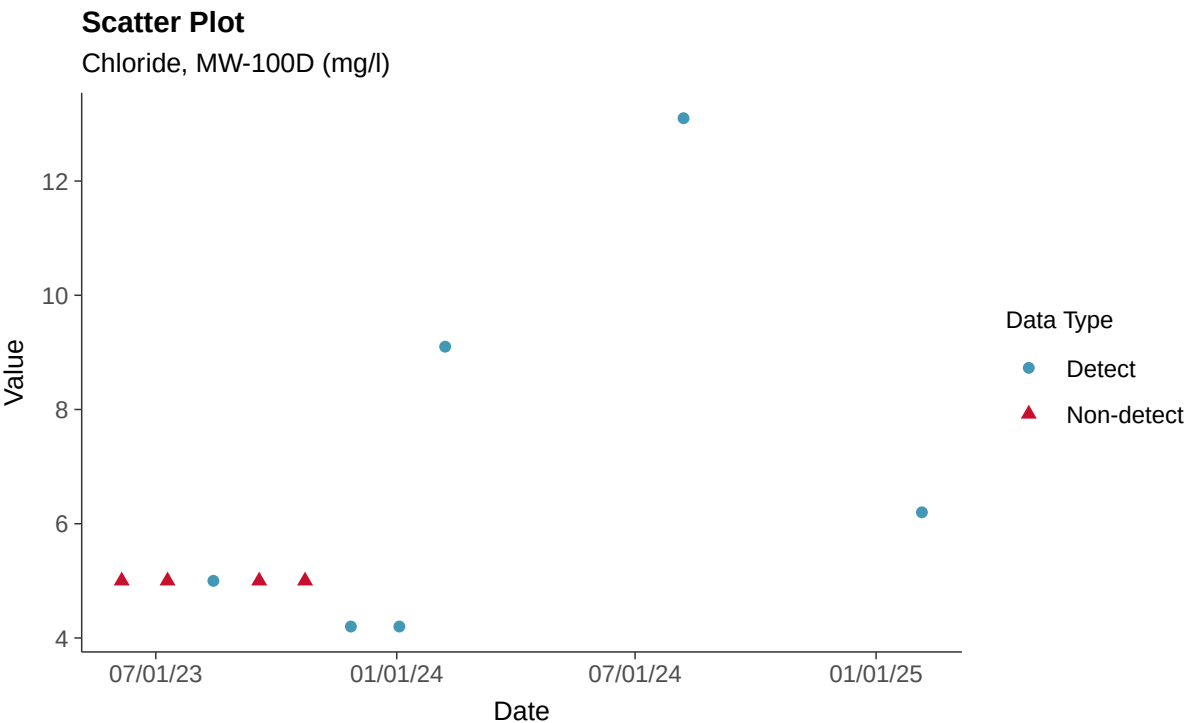


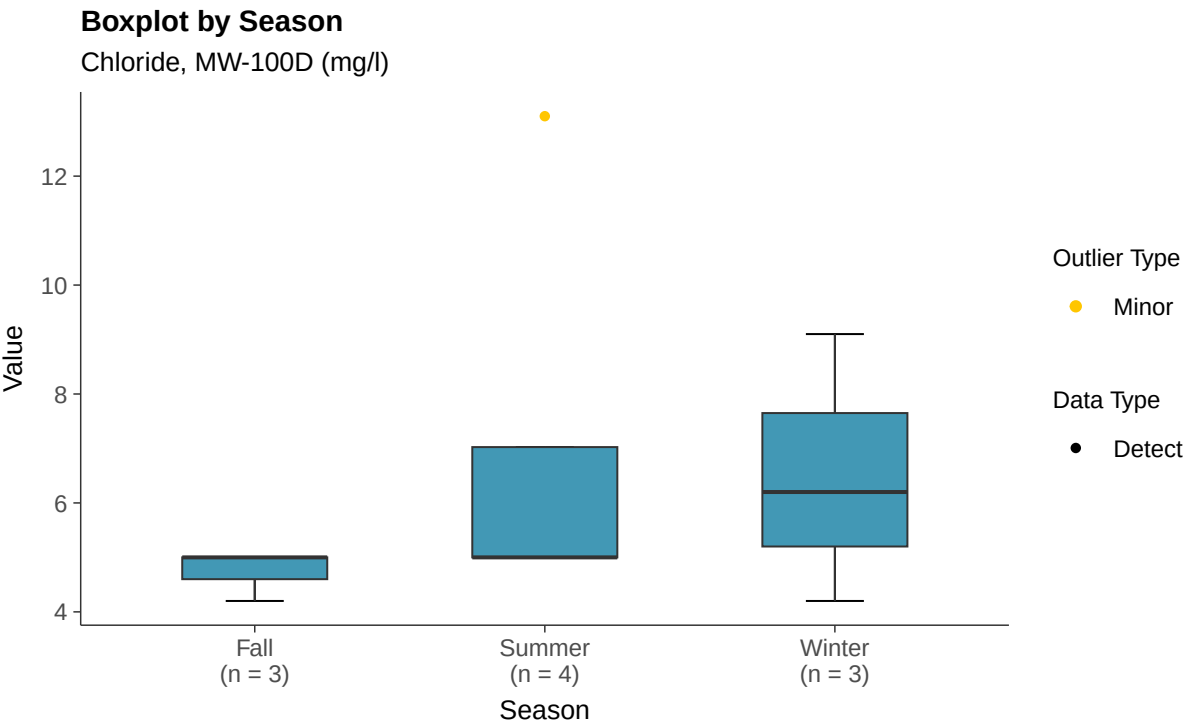
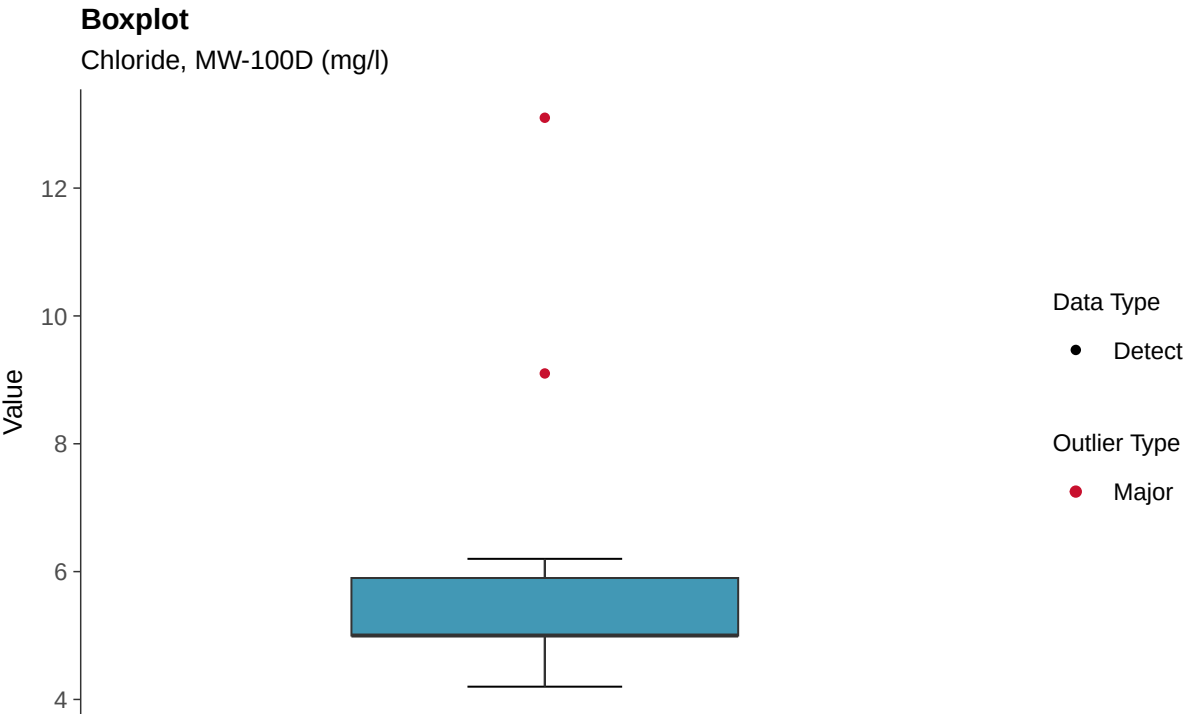




Appendix III: Chloride, MW-100D

ID: 19_2_108

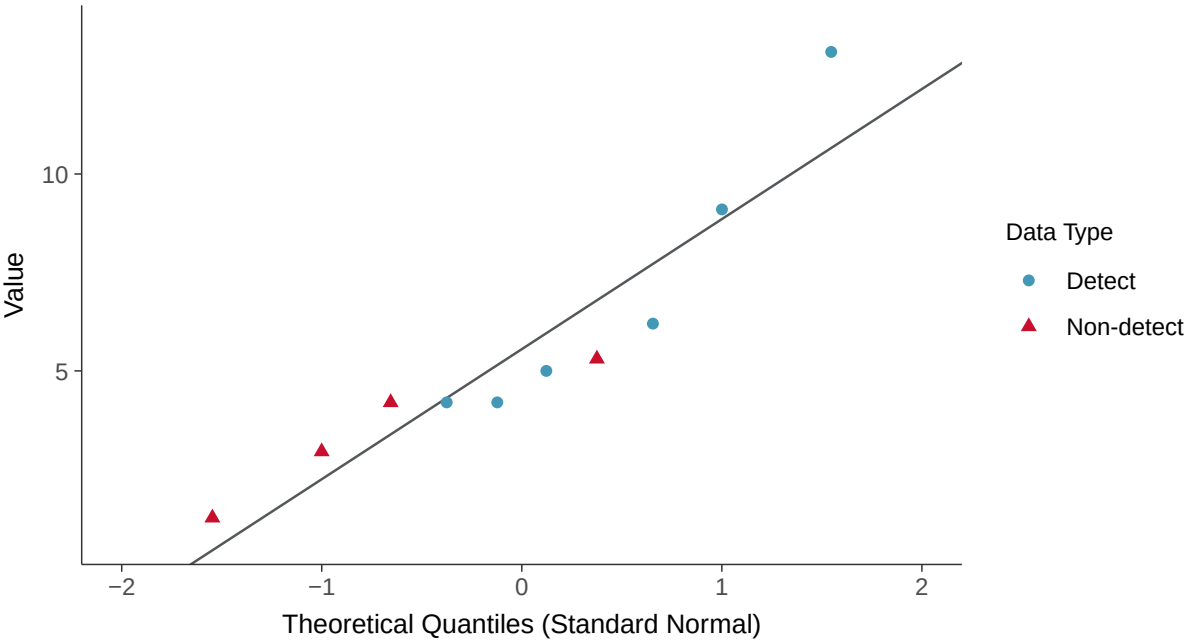






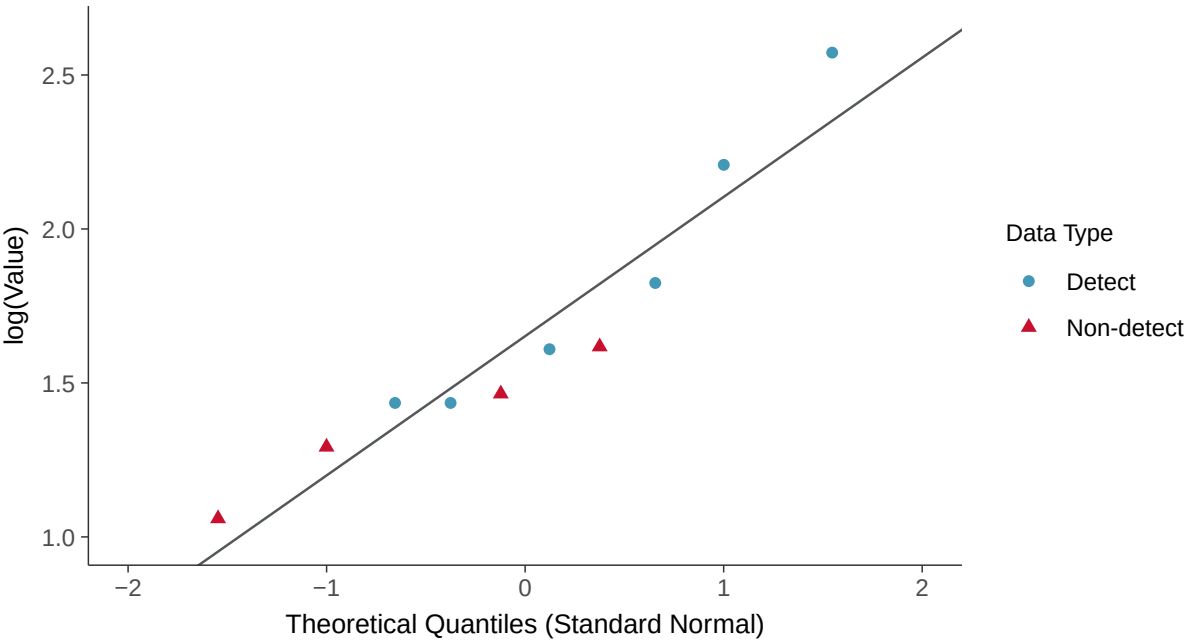
Normal Q-Q plot using ROS Imputed Estimates

Chloride, MW-100D (mg/l)



Lognormal Q-Q plot using ROS Imputed Estimates

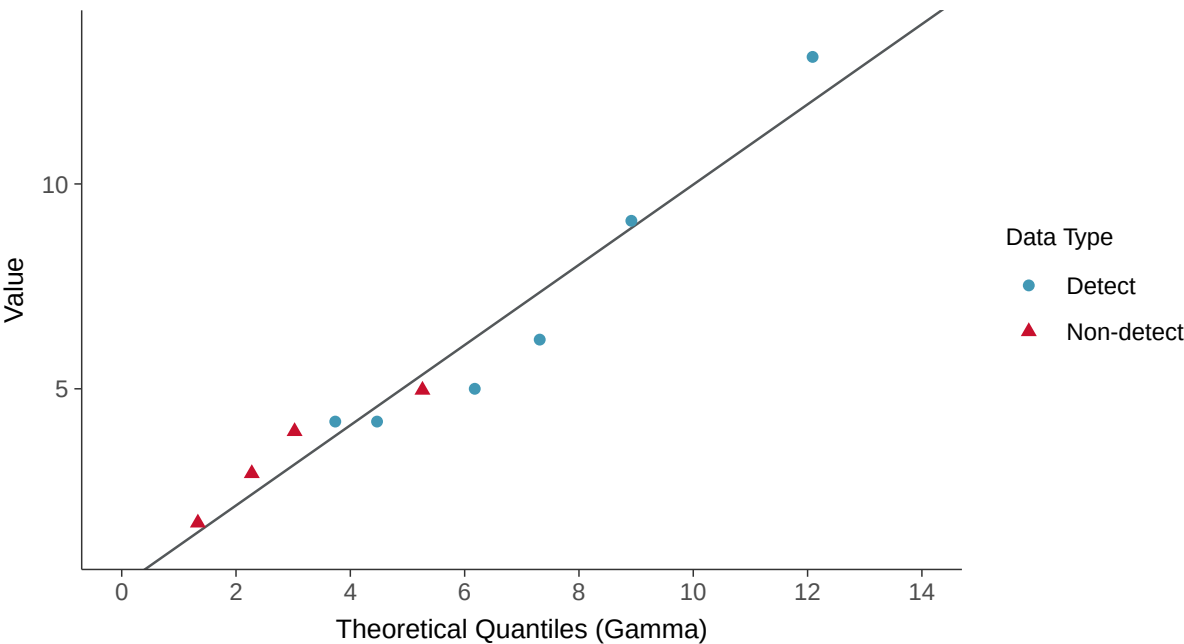
Chloride, MW-100D (mg/l)





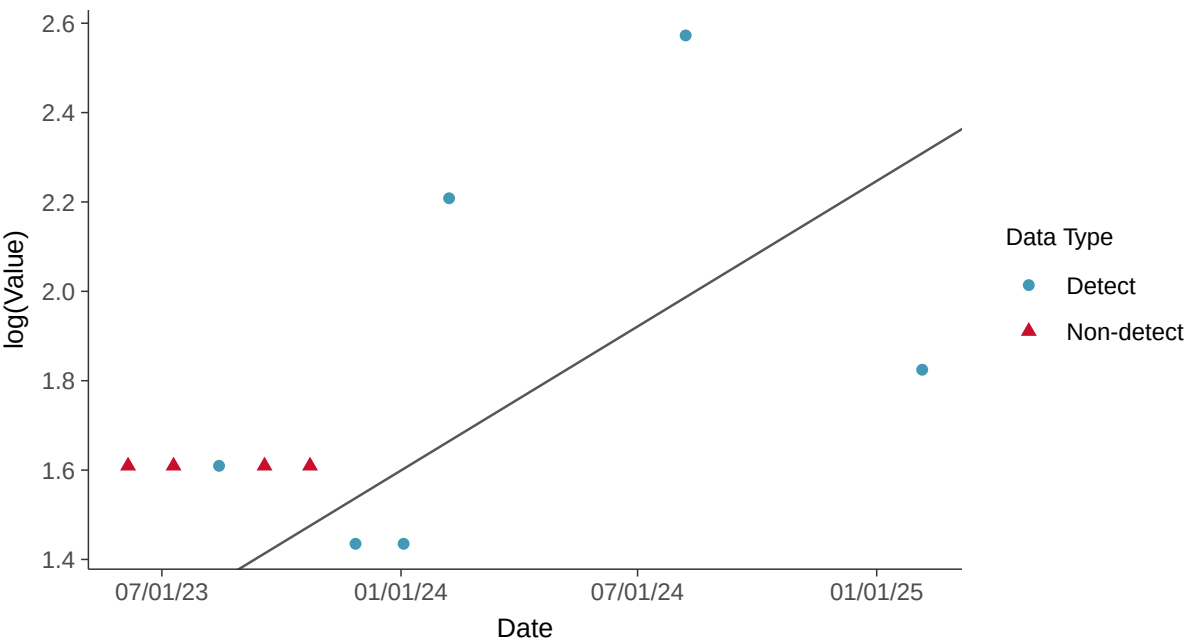
Gamma Q-Q plot using ROS Imputed Estimates

Chloride, MW-100D (mg/l)



Trend Regression: Lognormal MLE

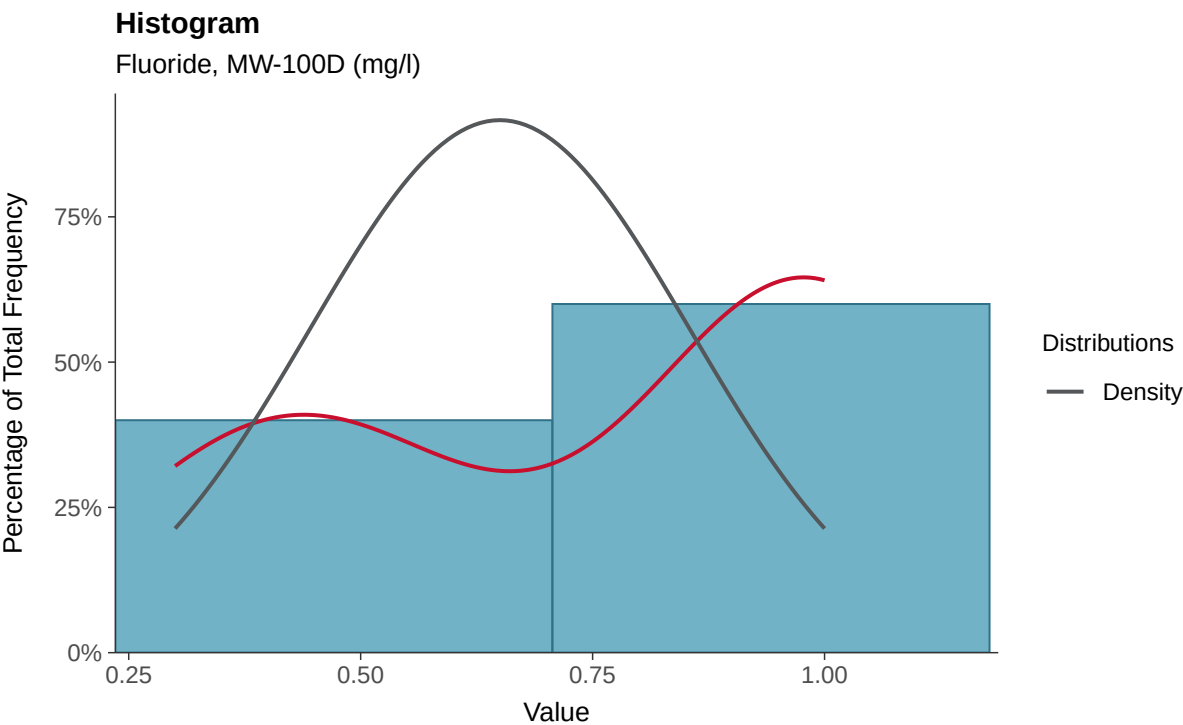
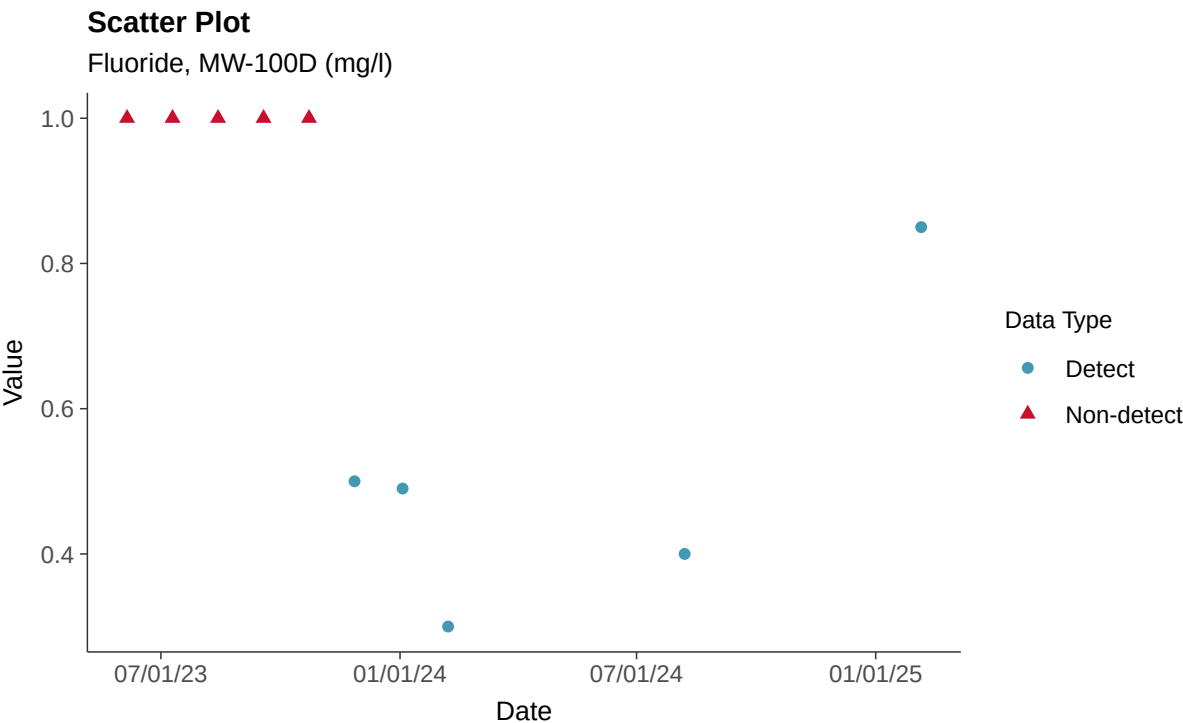
Chloride, MW-100D (mg/l)





Appendix III: Fluoride, MW-100D

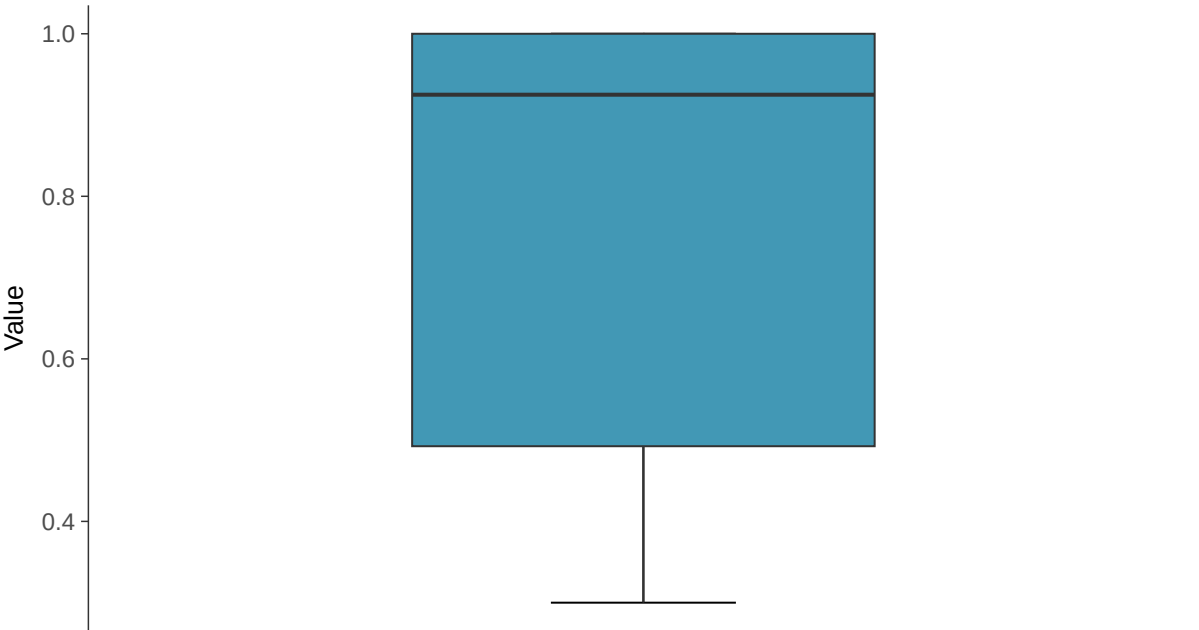
ID: 19_2_112





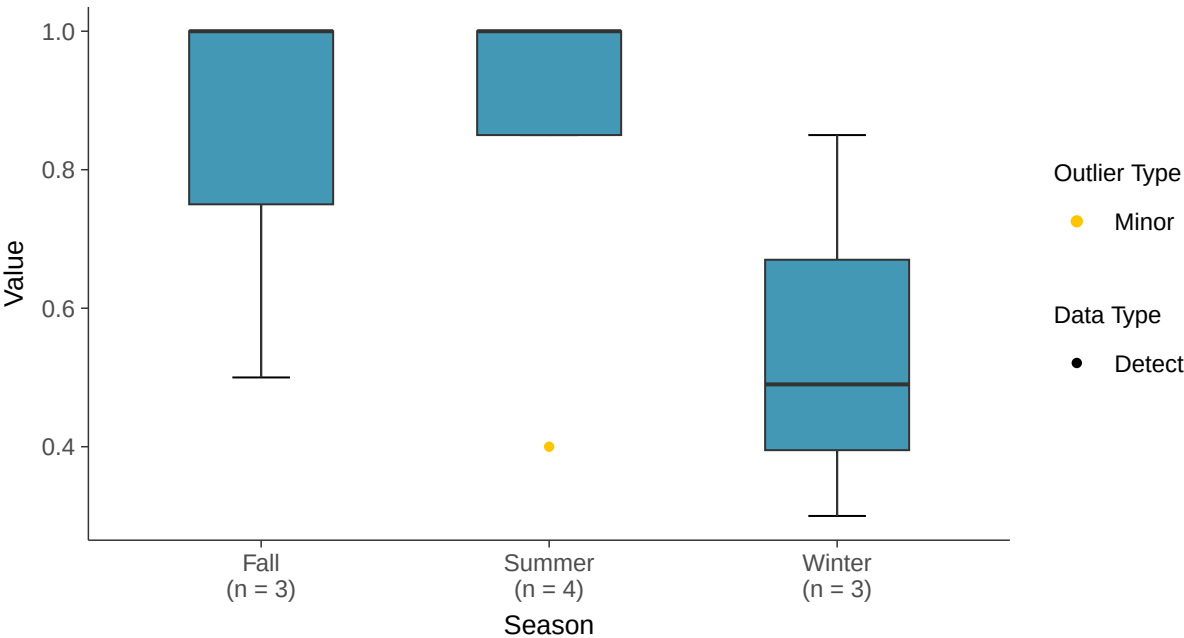
Boxplot

Fluoride, MW-100D (mg/l)



Boxplot by Season

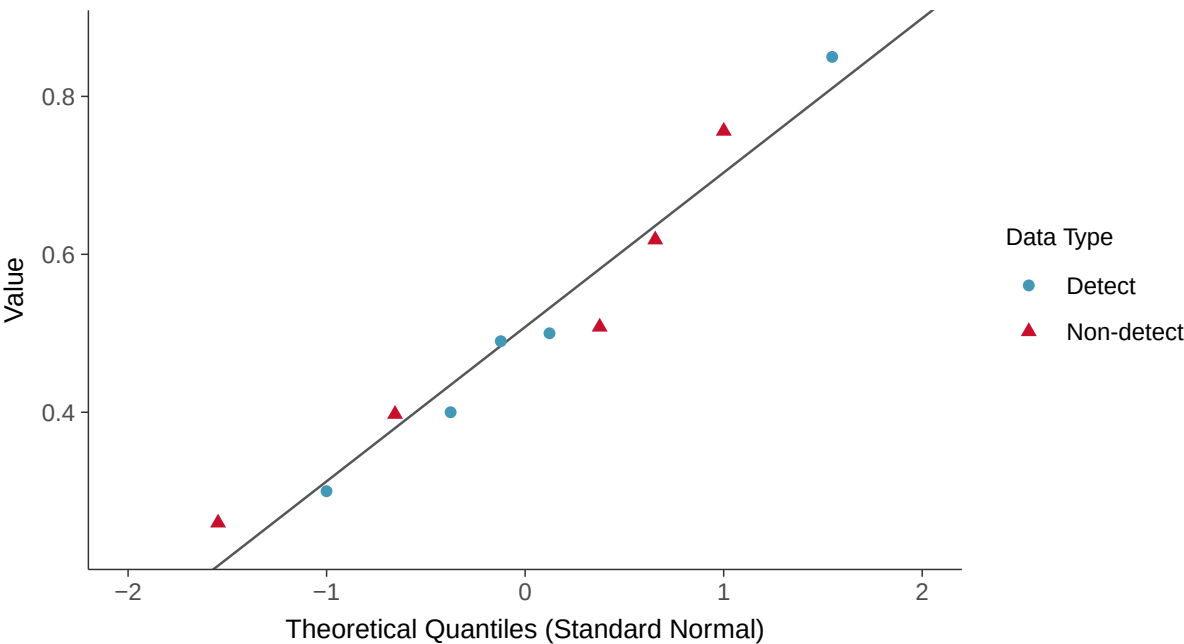
Fluoride, MW-100D (mg/l)





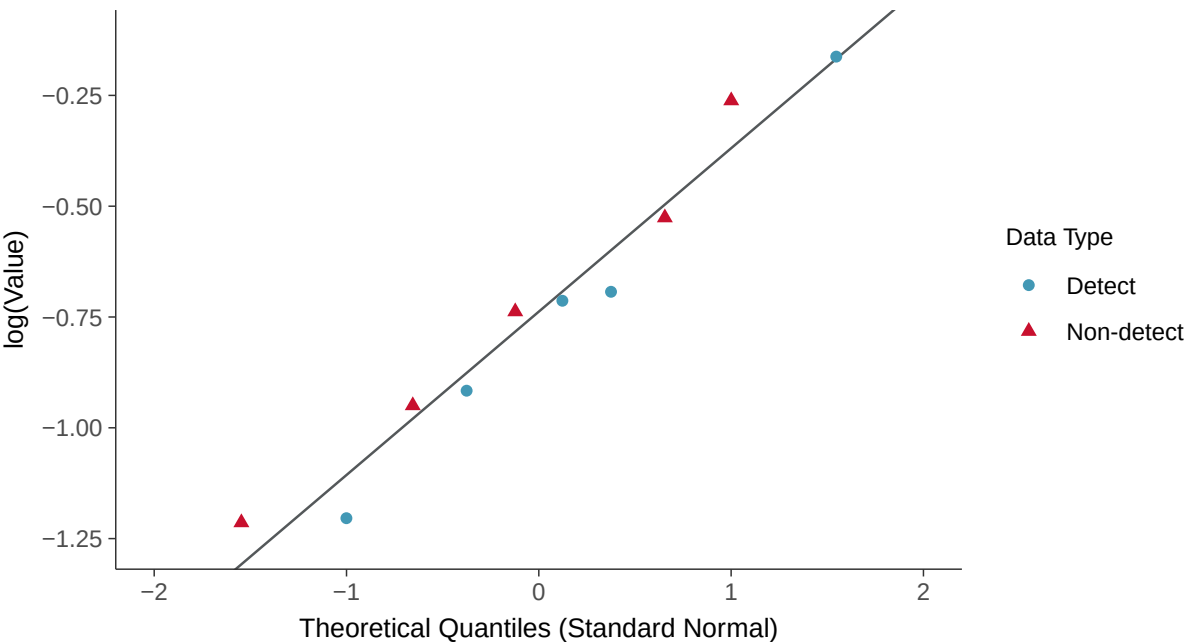
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-100D (mg/l)



Lognormal Q-Q plot using ROS Imputed Estimates

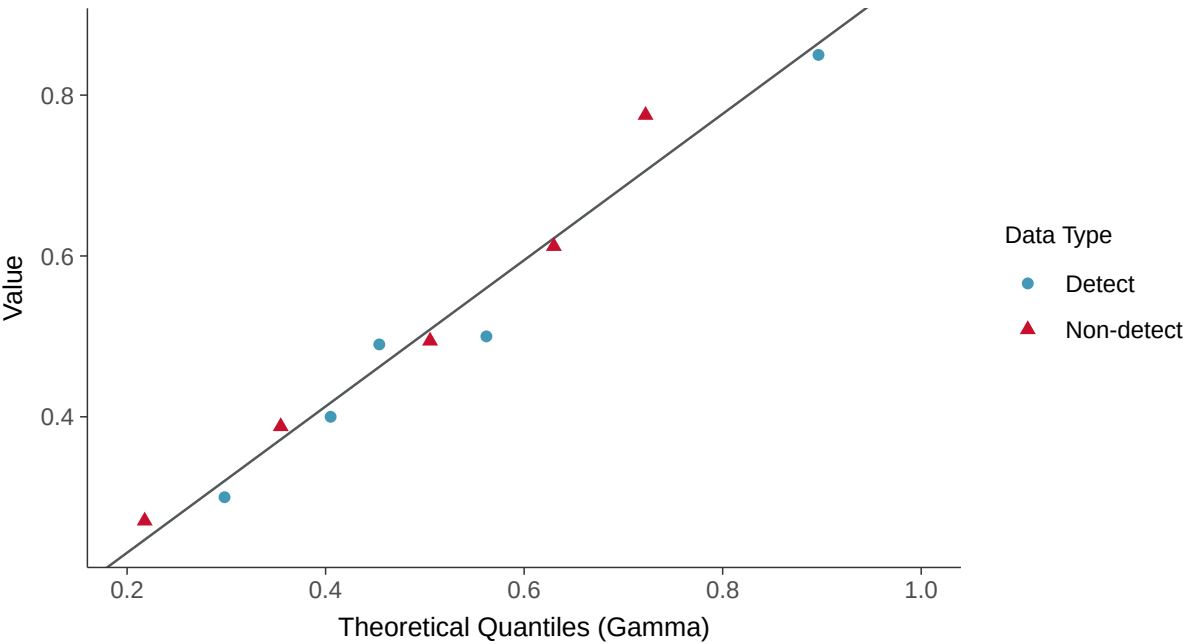
Fluoride, MW-100D (mg/l)





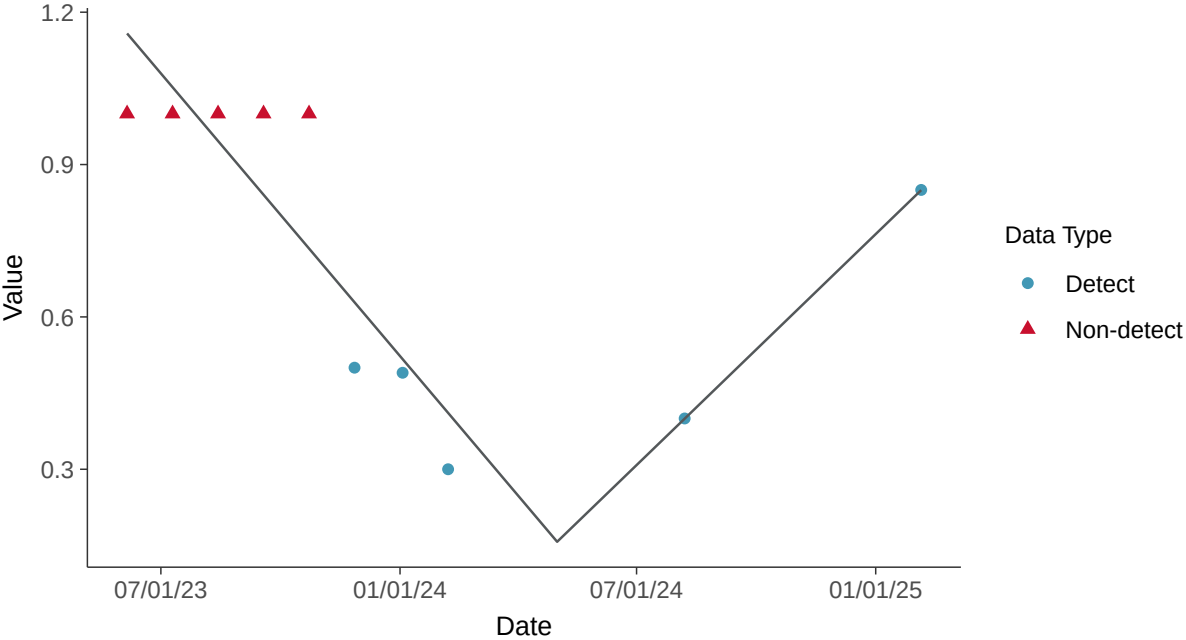
Gamma Q-Q plot using ROS Imputed Estimates

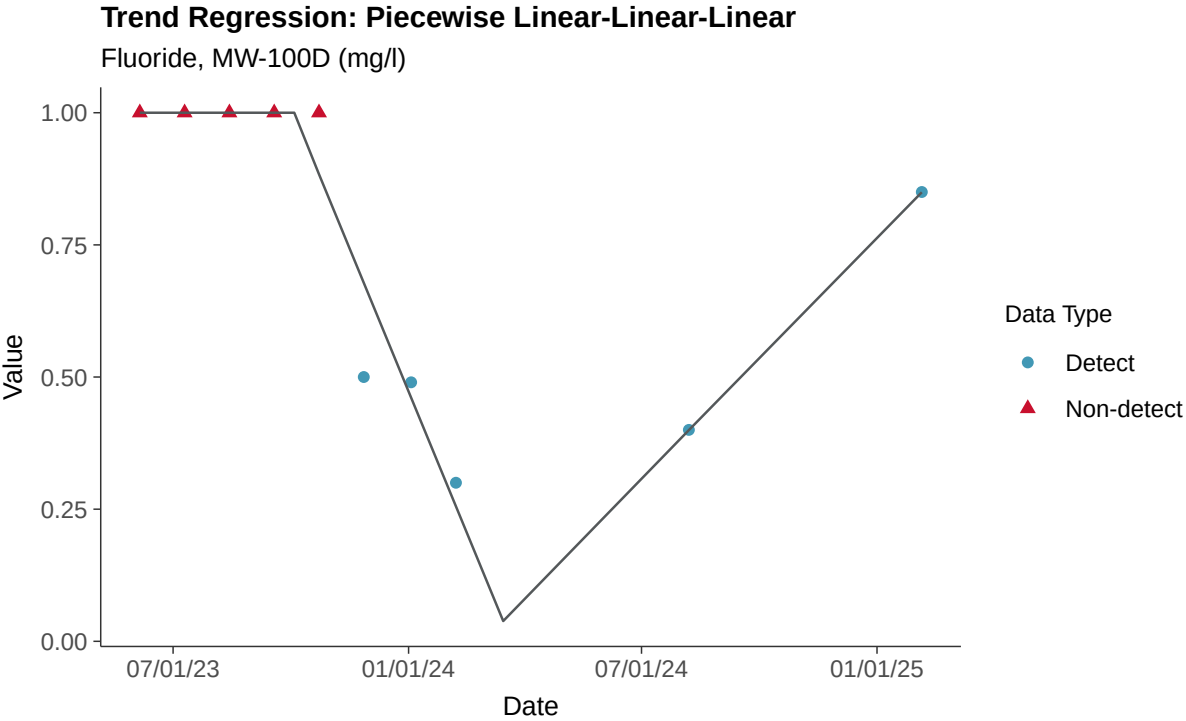
Fluoride, MW-100D (mg/l)



Trend Regression: Piecewise Linear-Linear

Fluoride, MW-100D (mg/l)

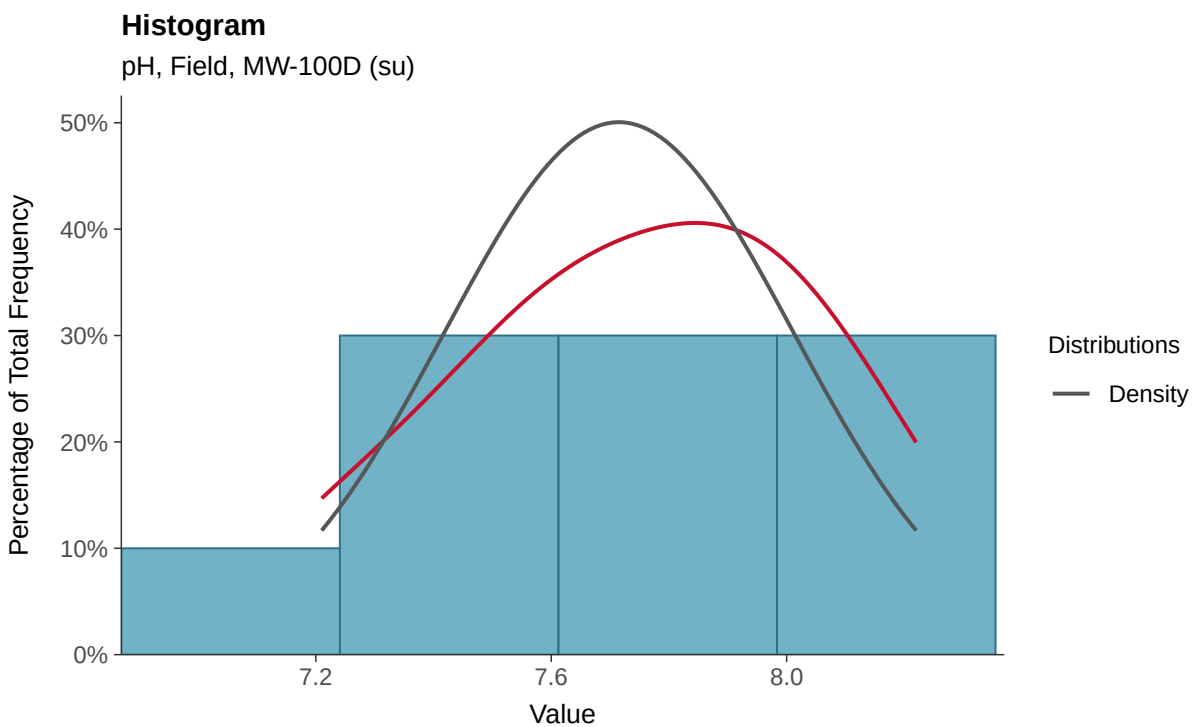
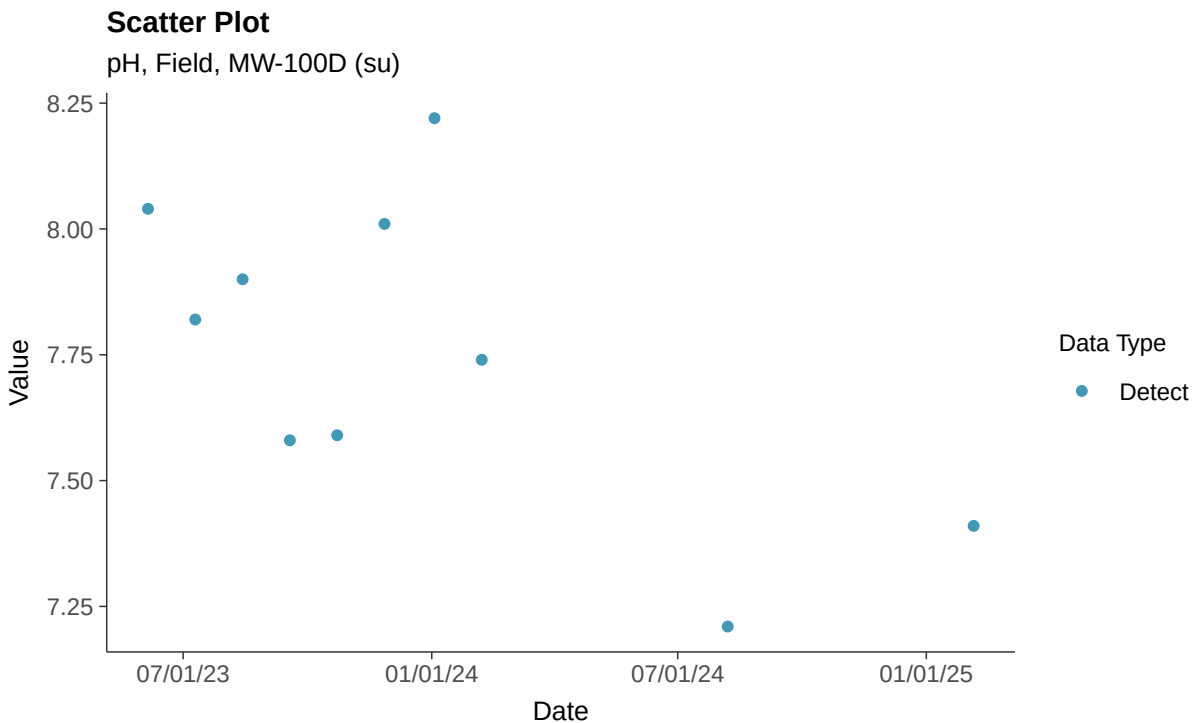


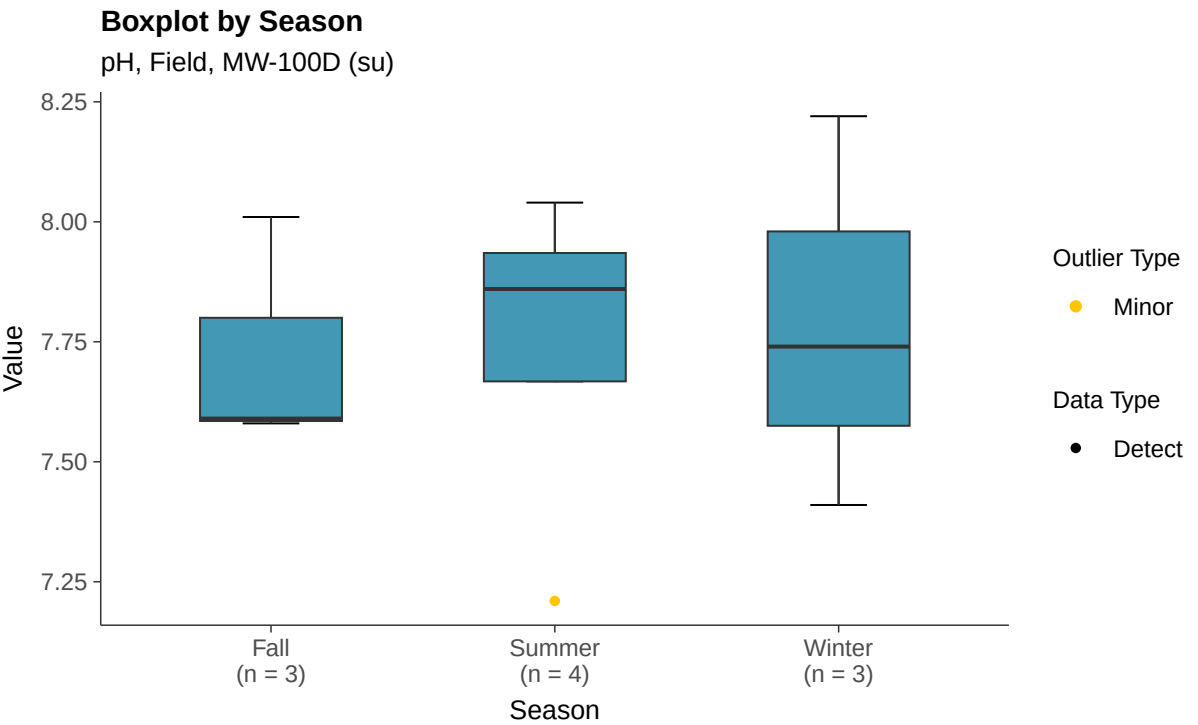
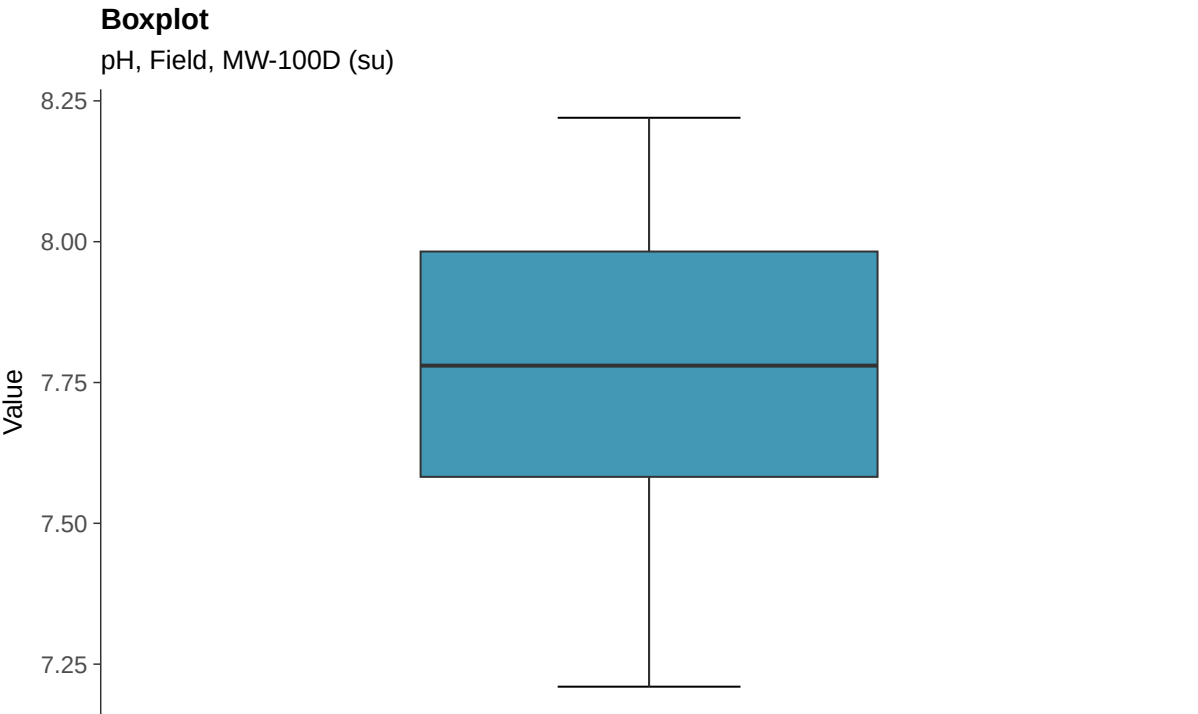


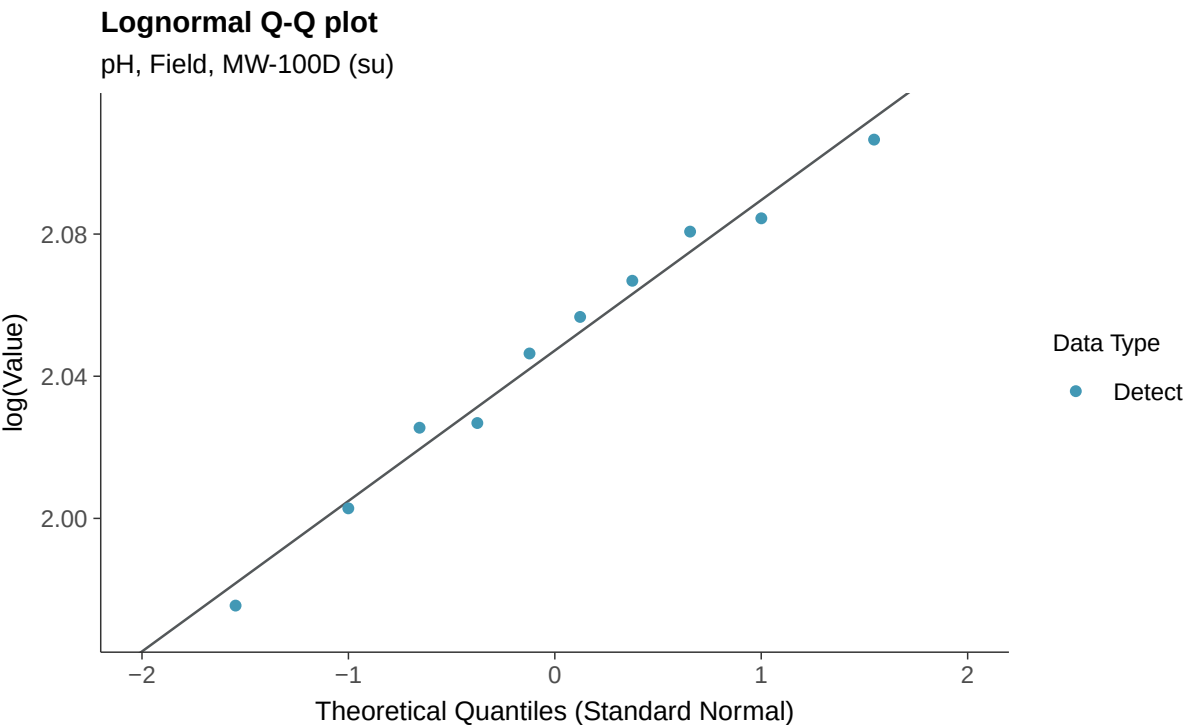
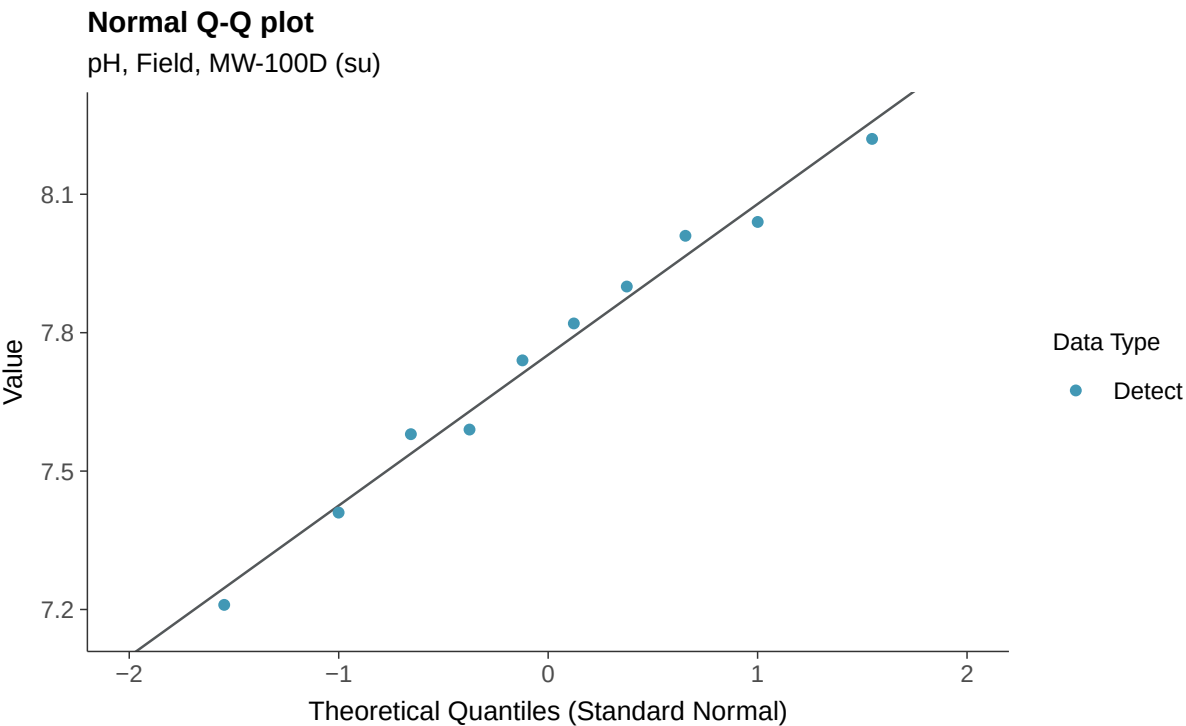


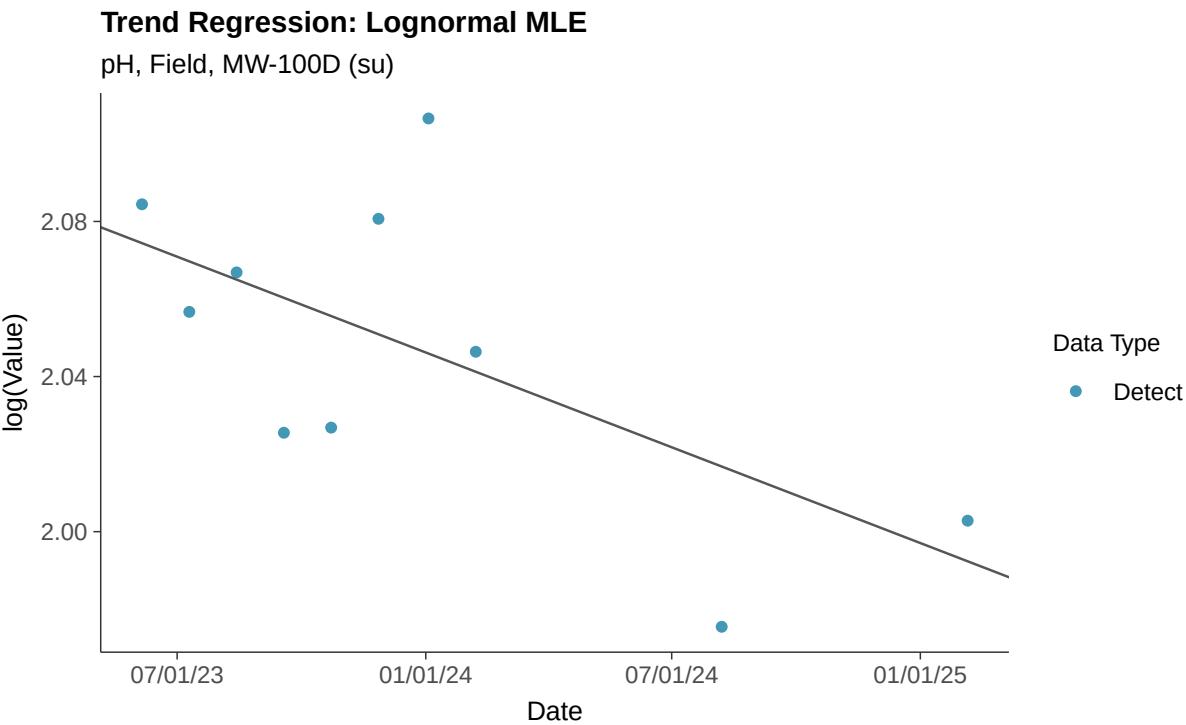
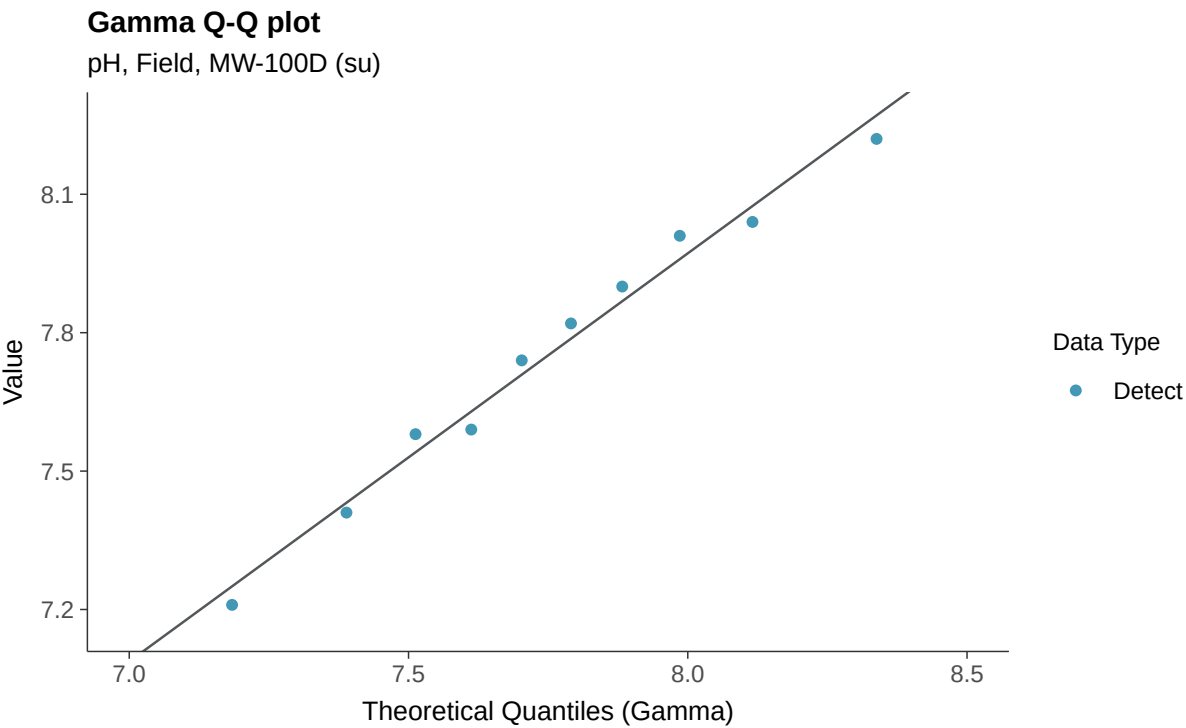
Appendix III: pH, Field, MW-100D

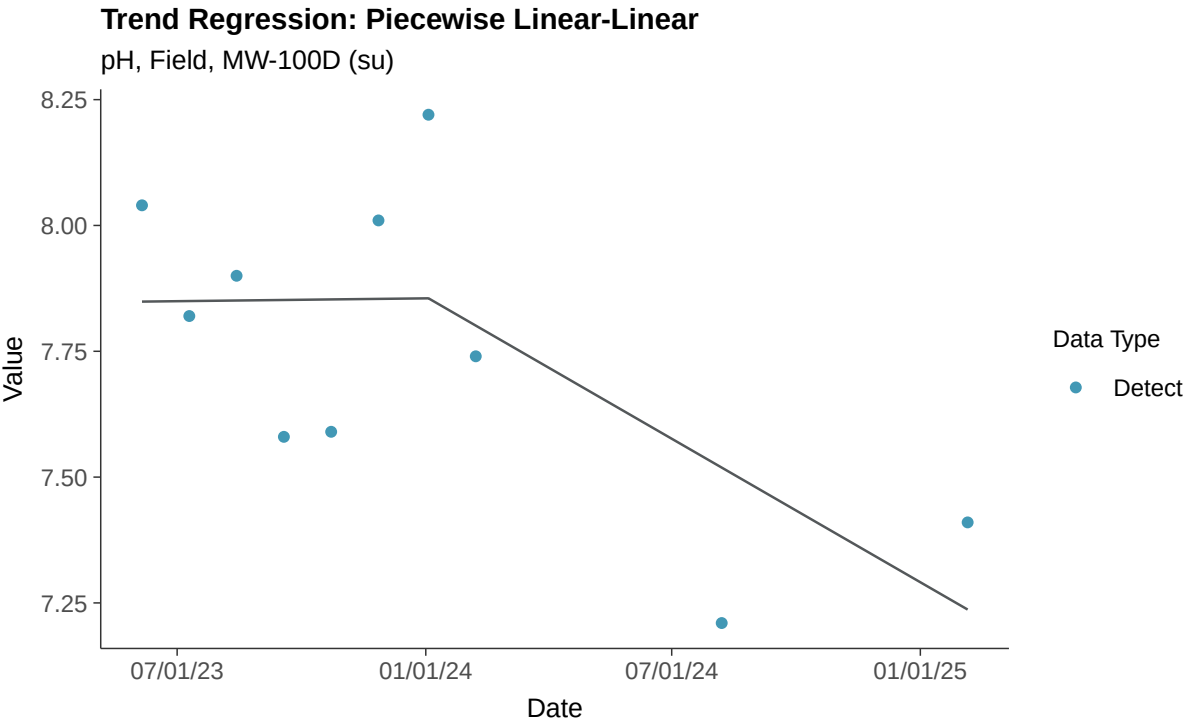
ID: 19_2_120







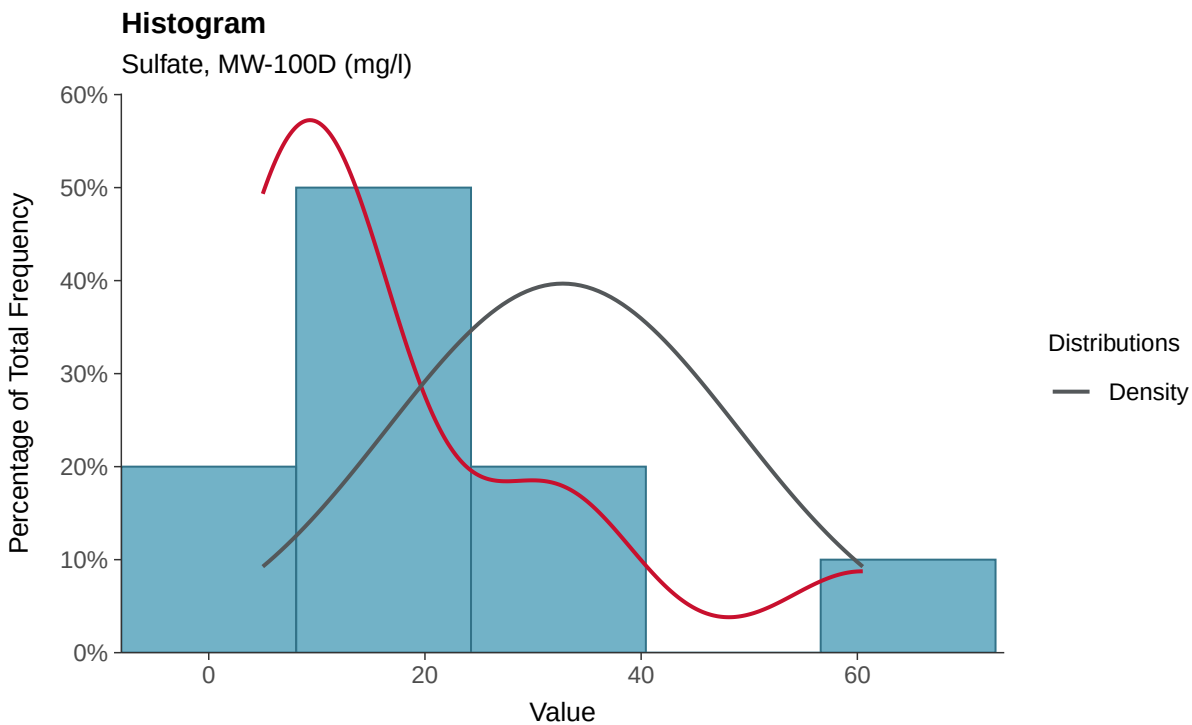
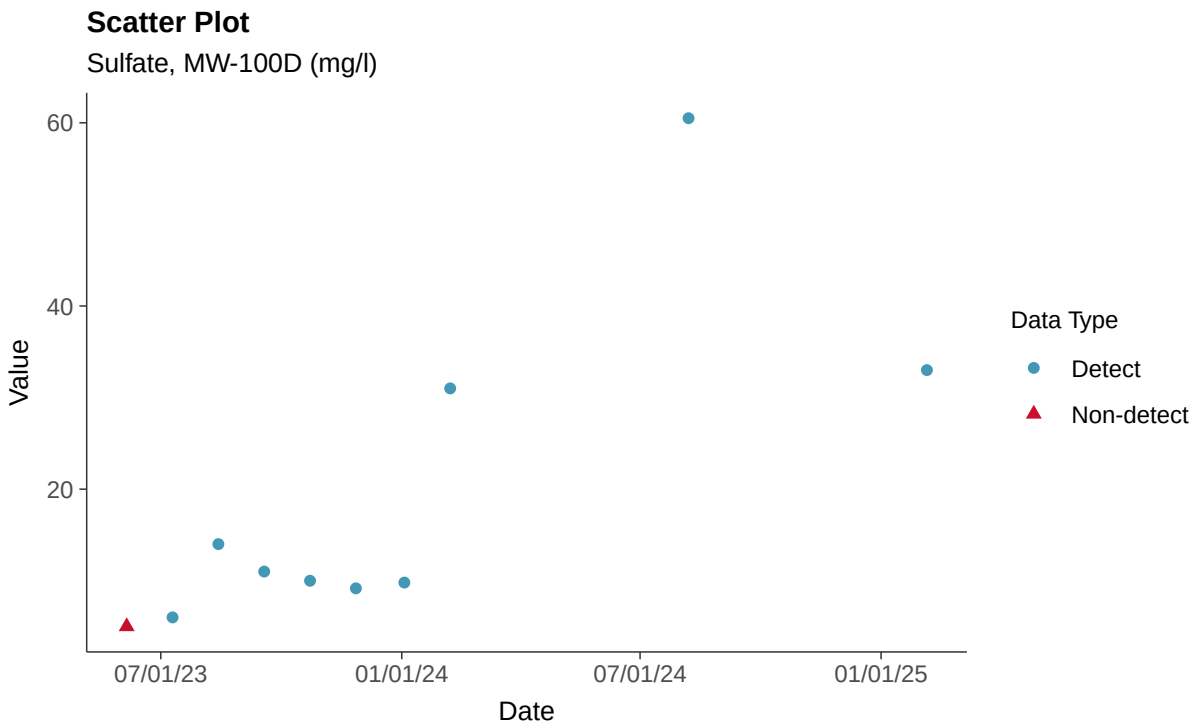


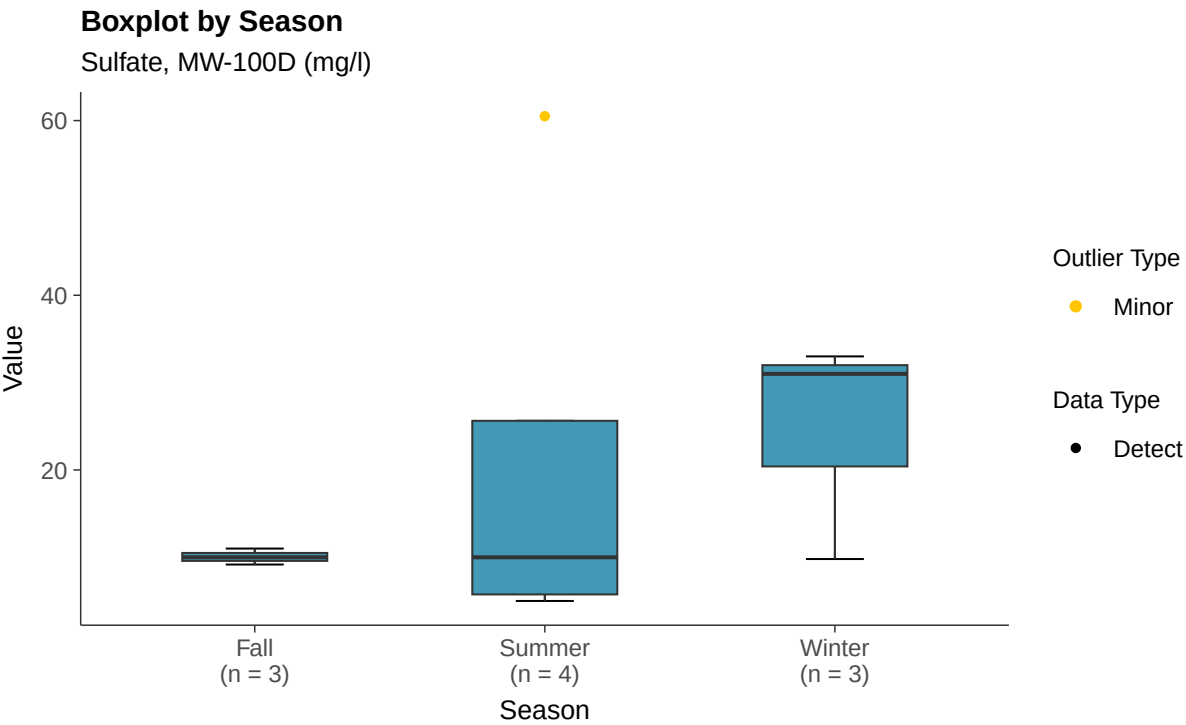
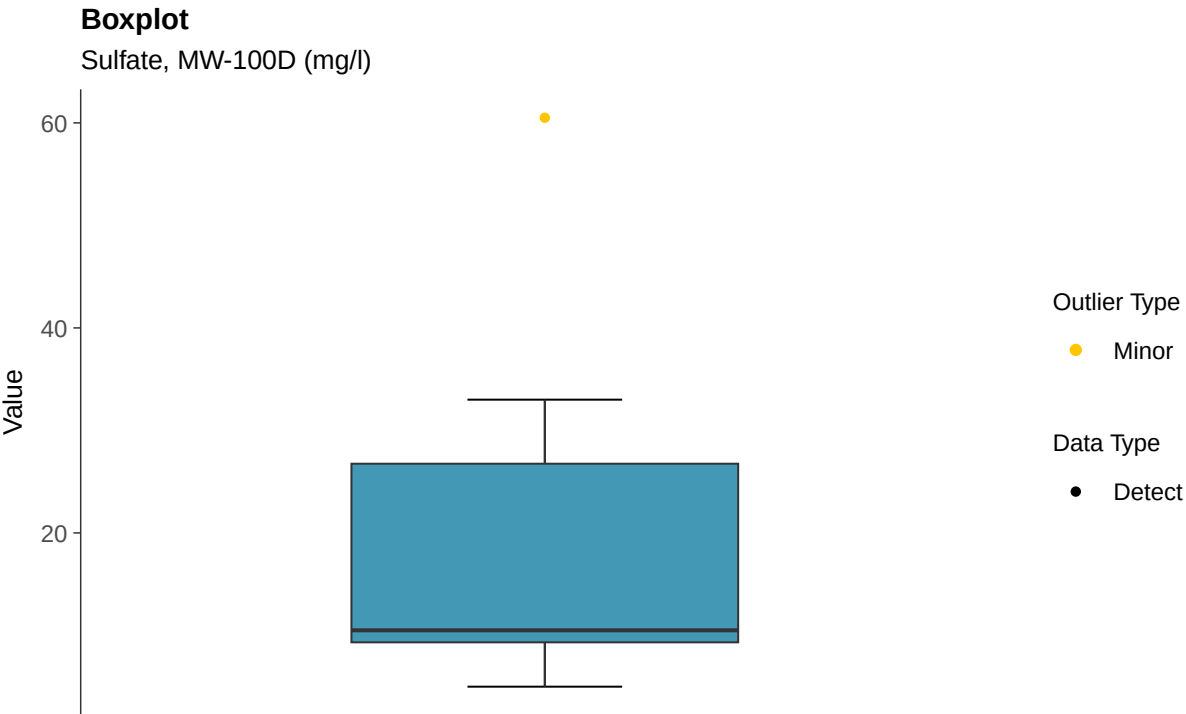




Appendix III: Sulfate, MW-100D

ID: 19_2_124

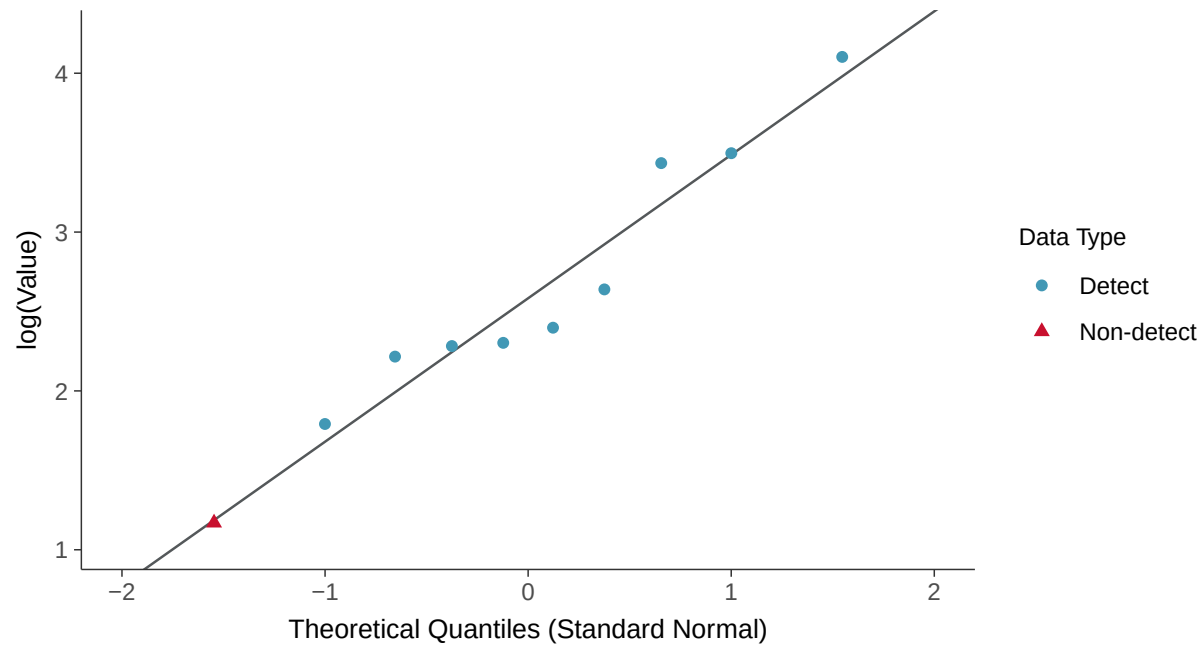






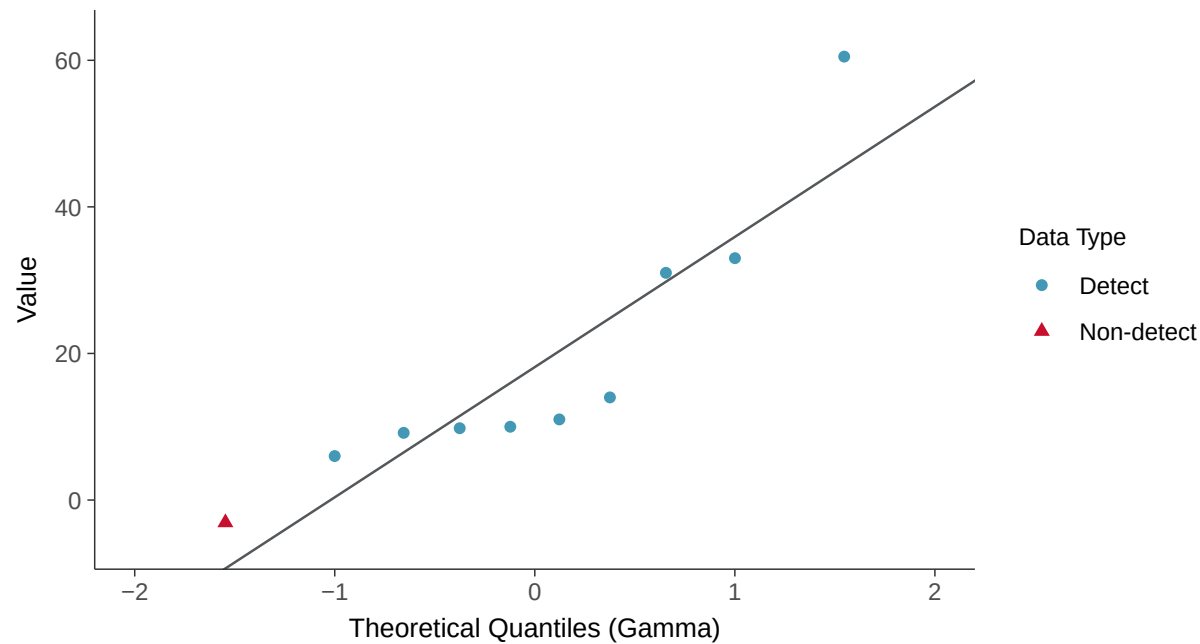
Lognormal Q-Q plot using ROS Imputed Estimates

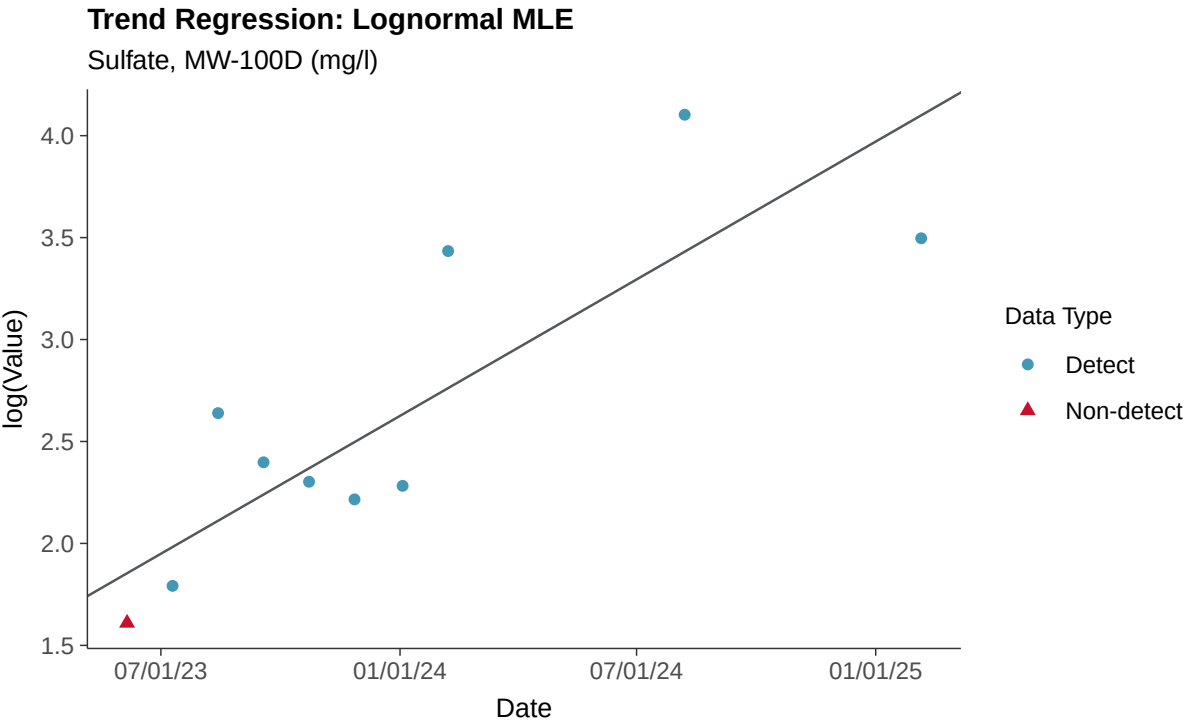
Sulfate, MW-100D (mg/l)



Gamma Q-Q plot using ROS Imputed Estimates

Sulfate, MW-100D (mg/l)

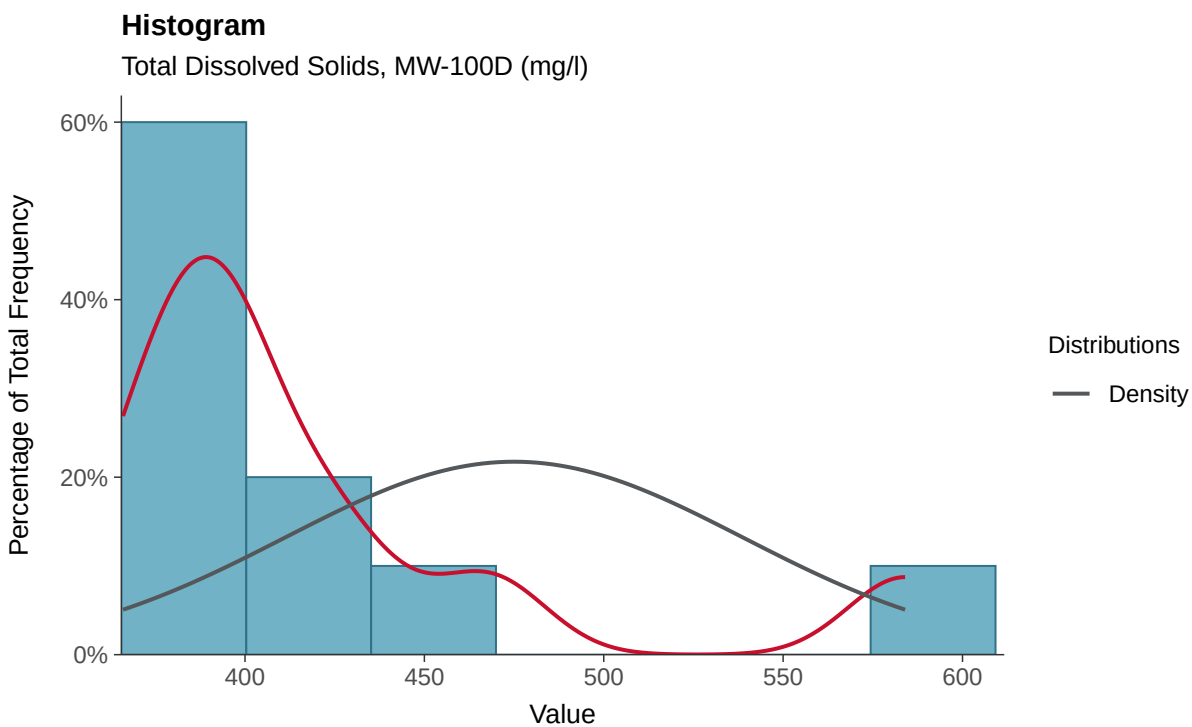
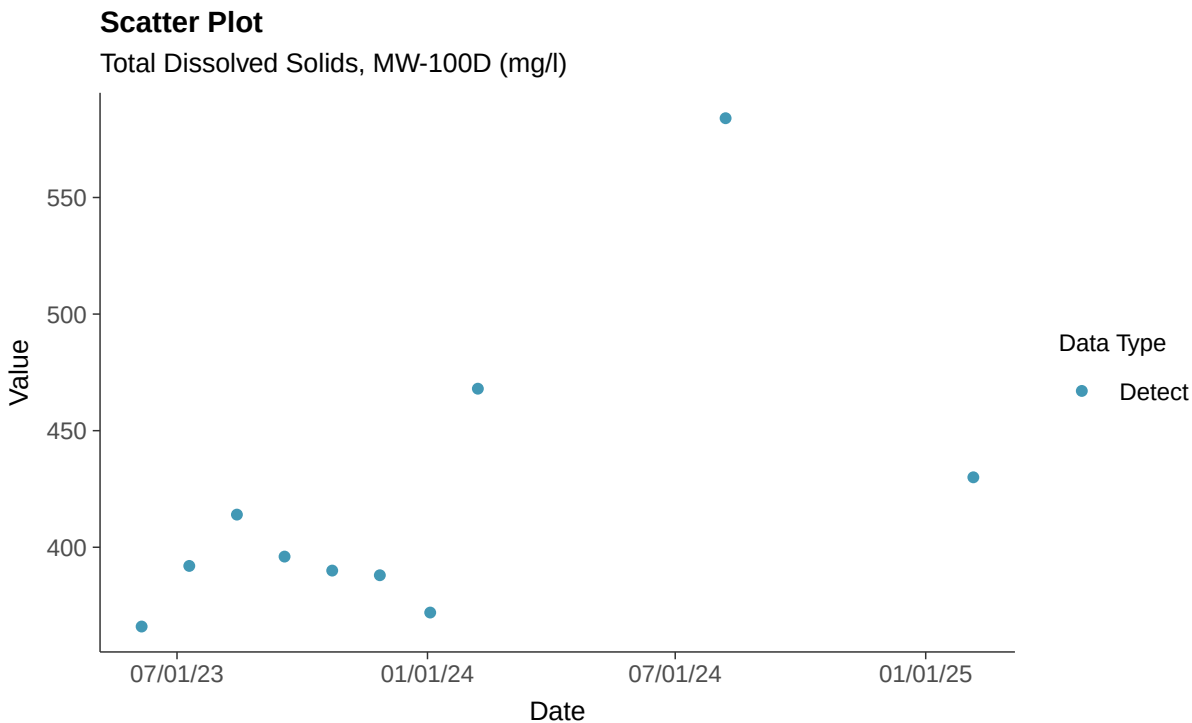


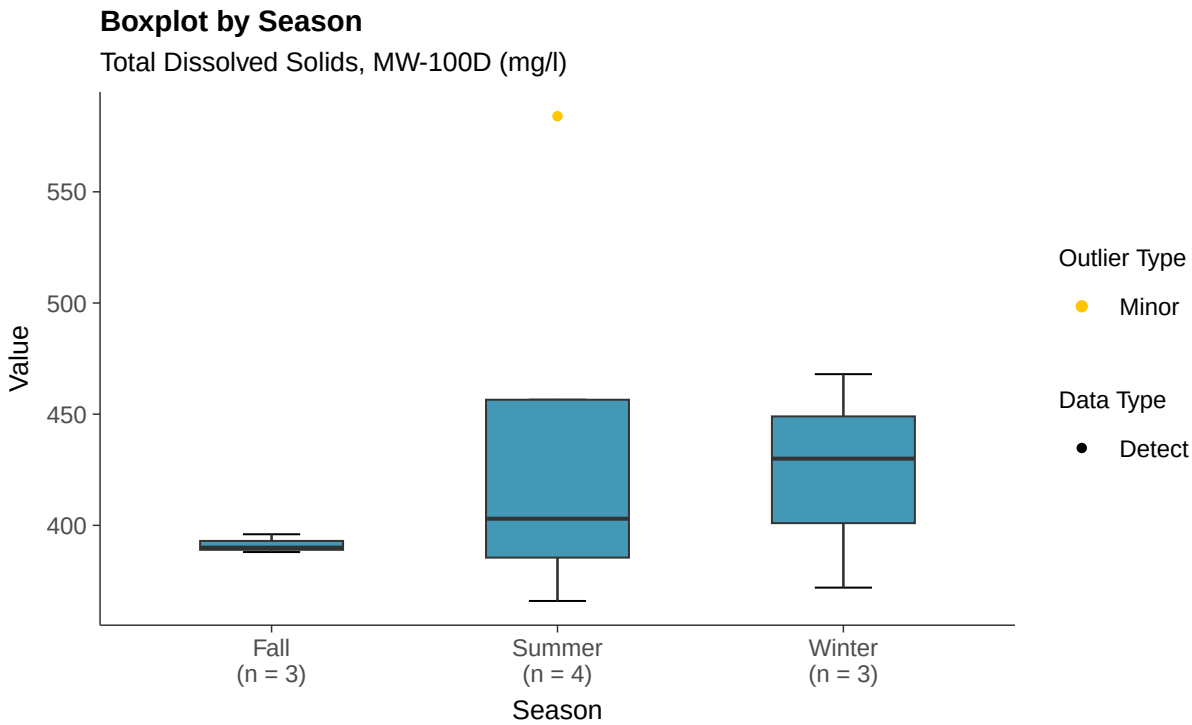
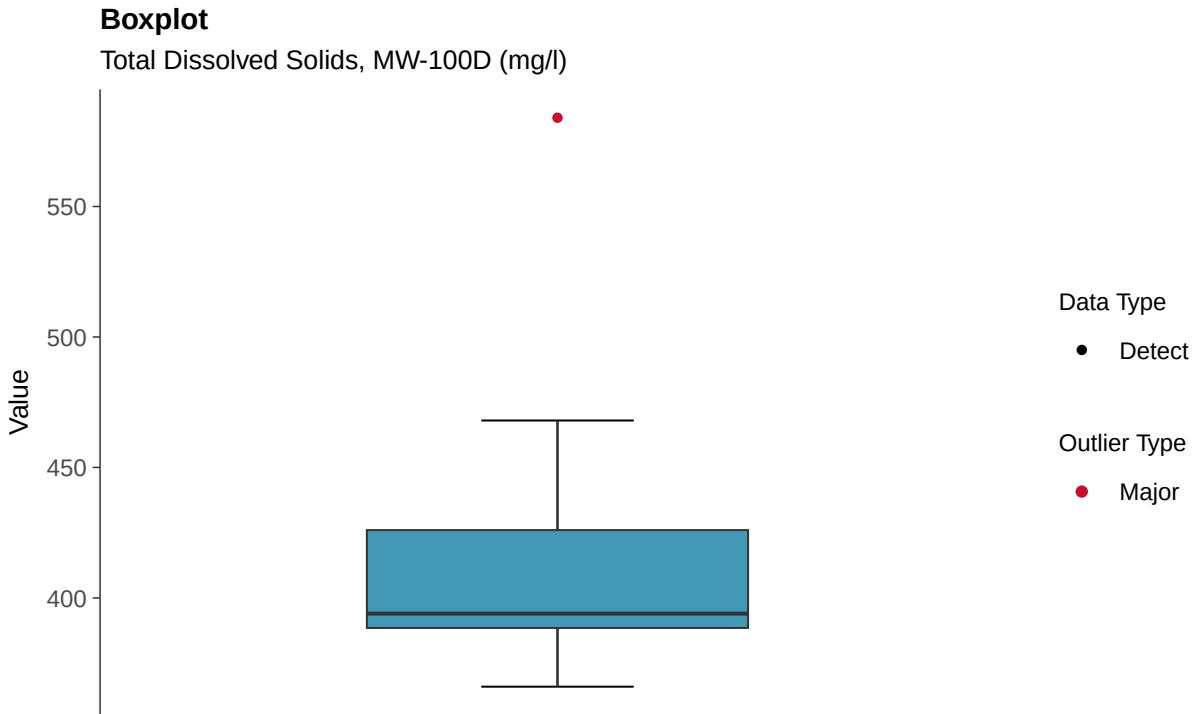


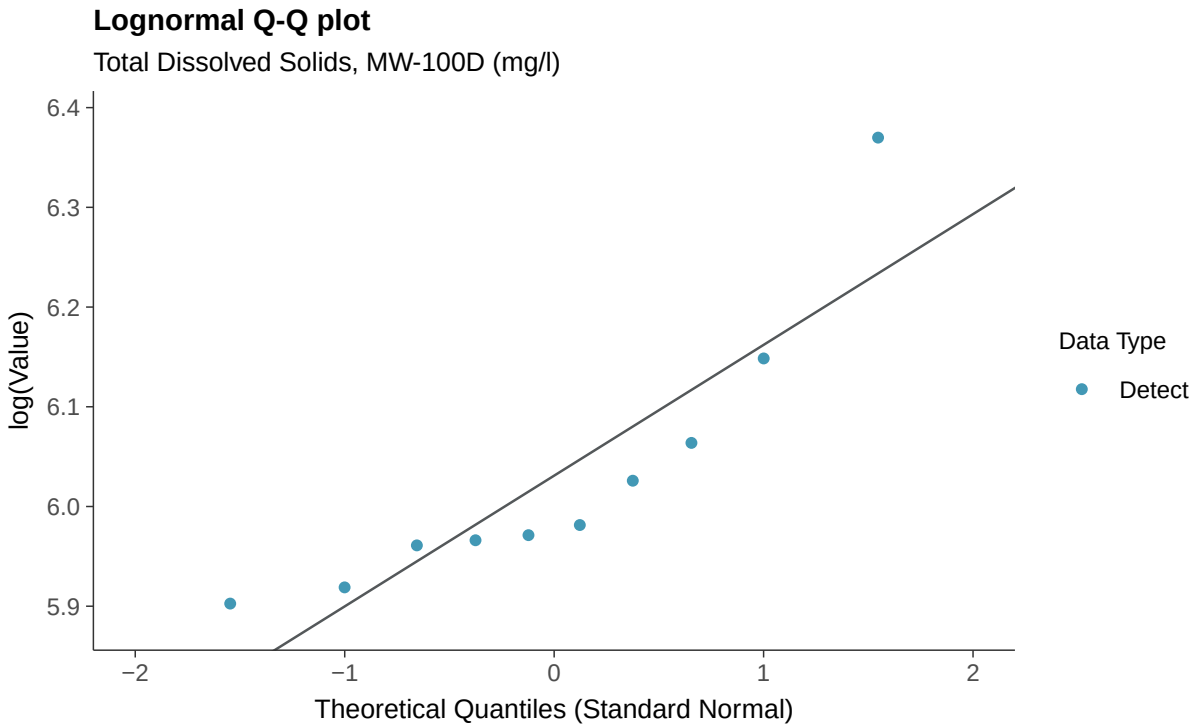
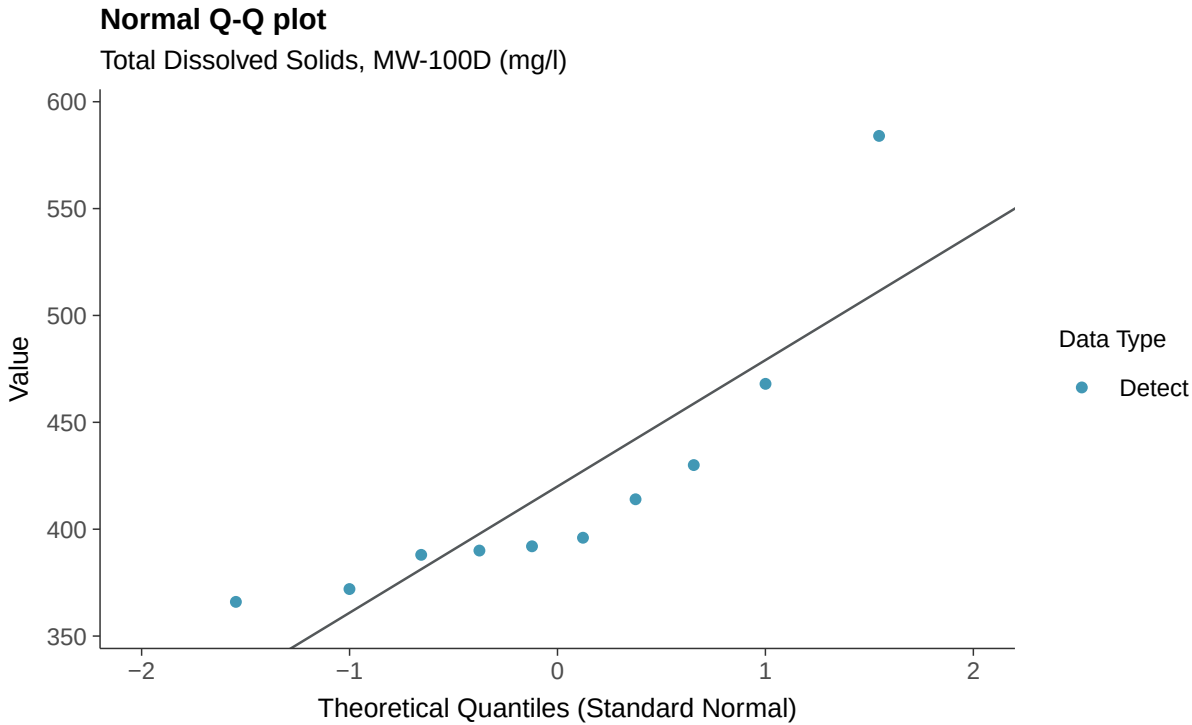


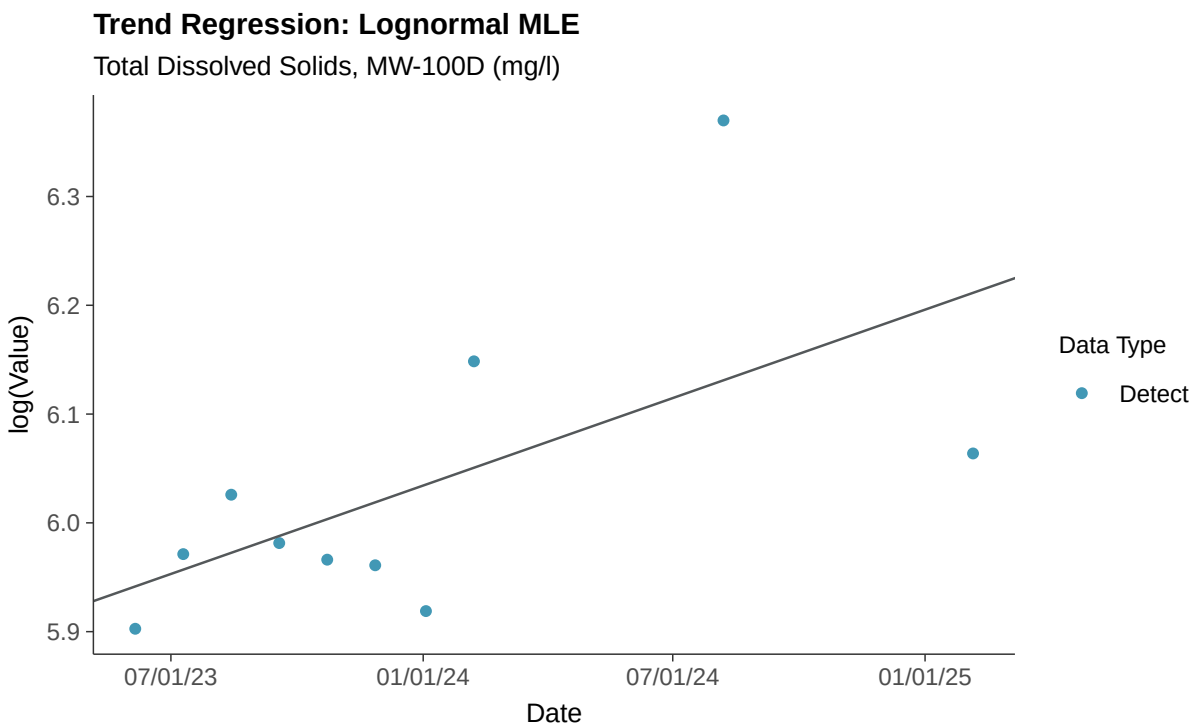
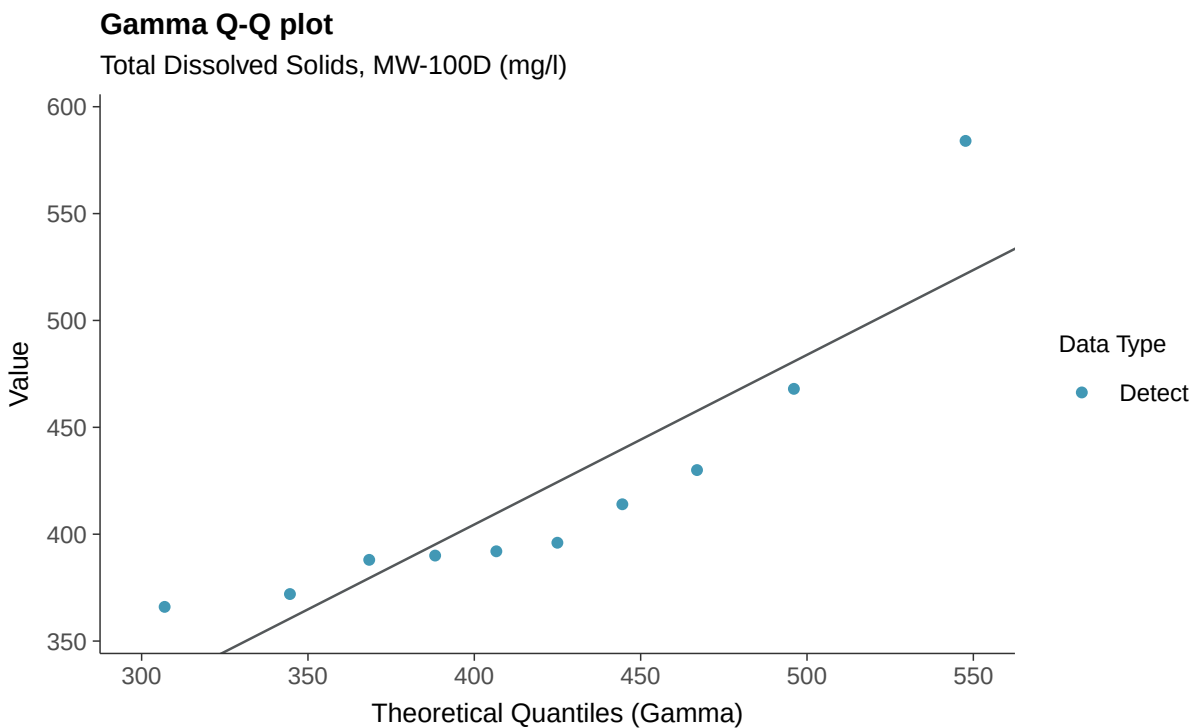
Appendix III: Total Dissolved Solids, MW-100D

ID: 19_2_126





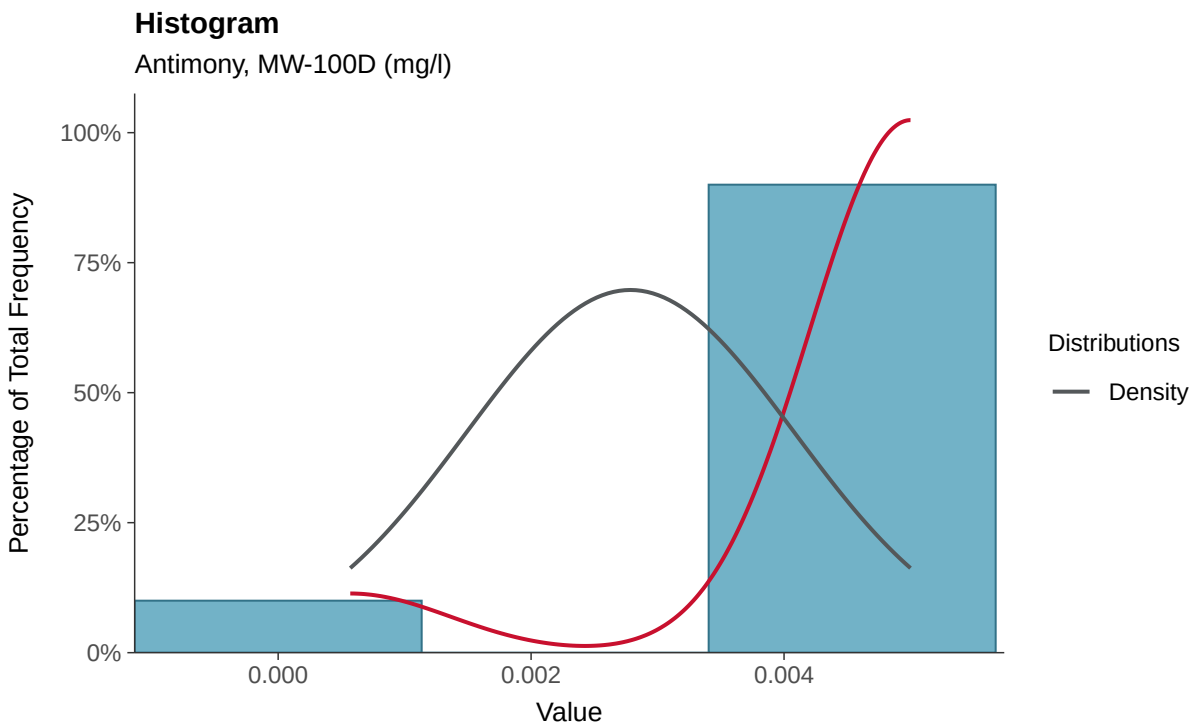
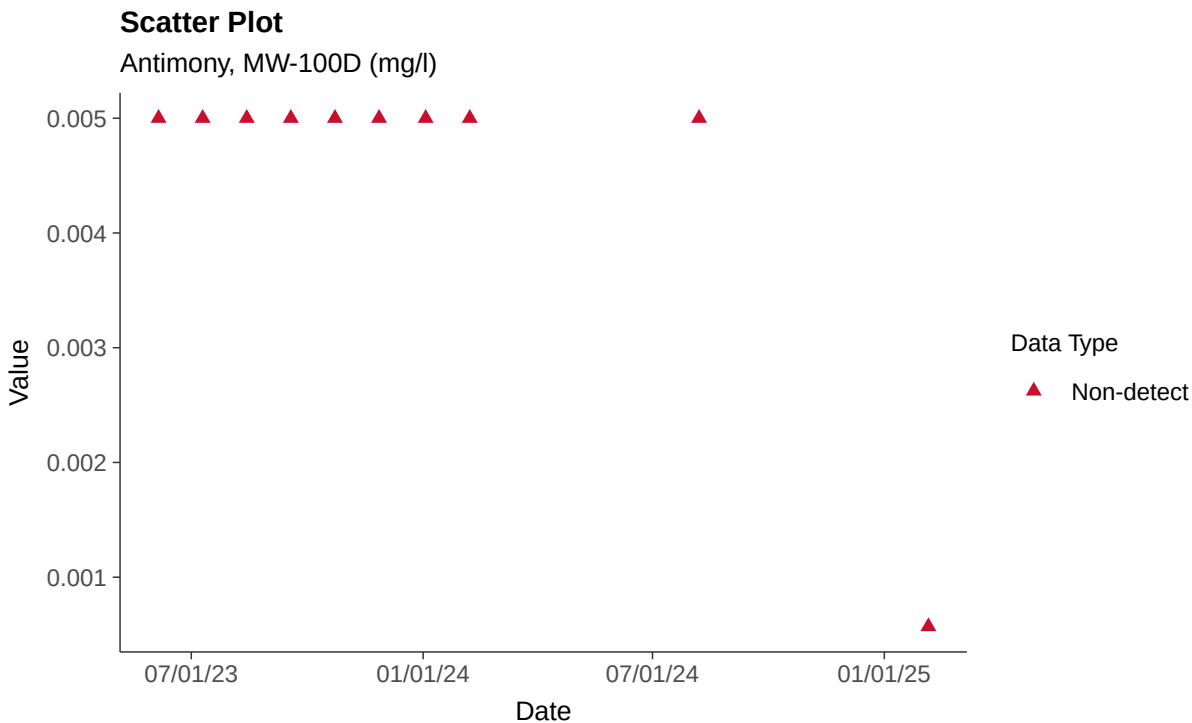


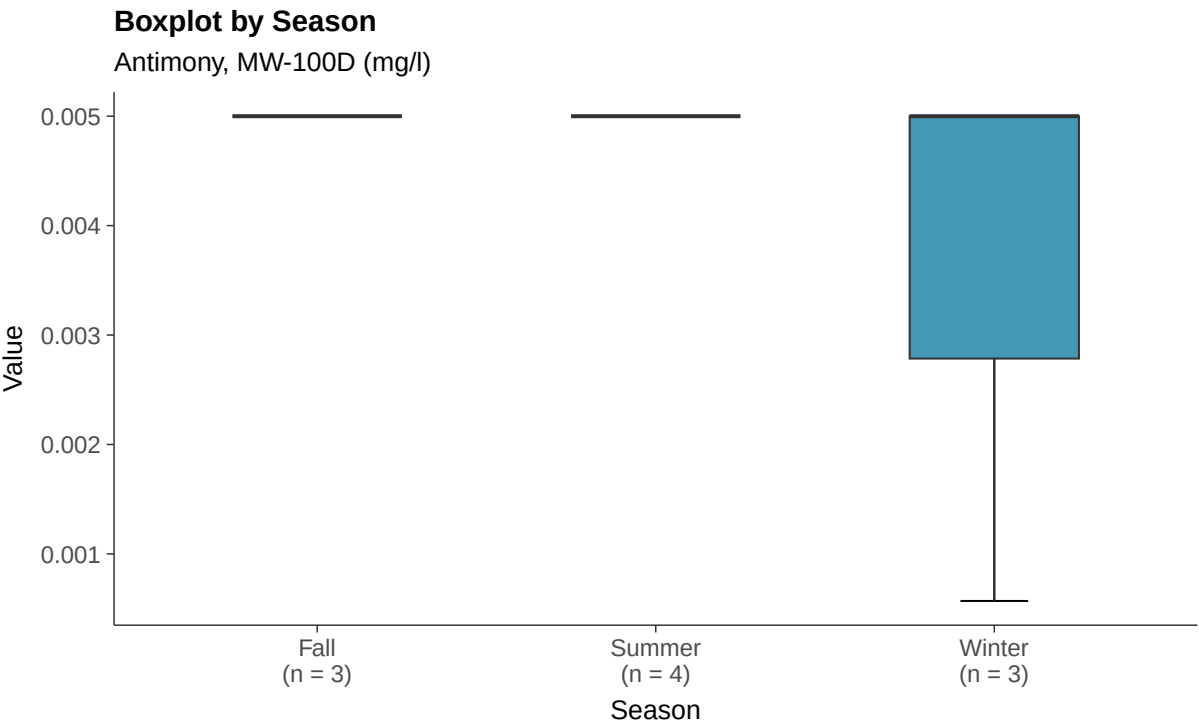
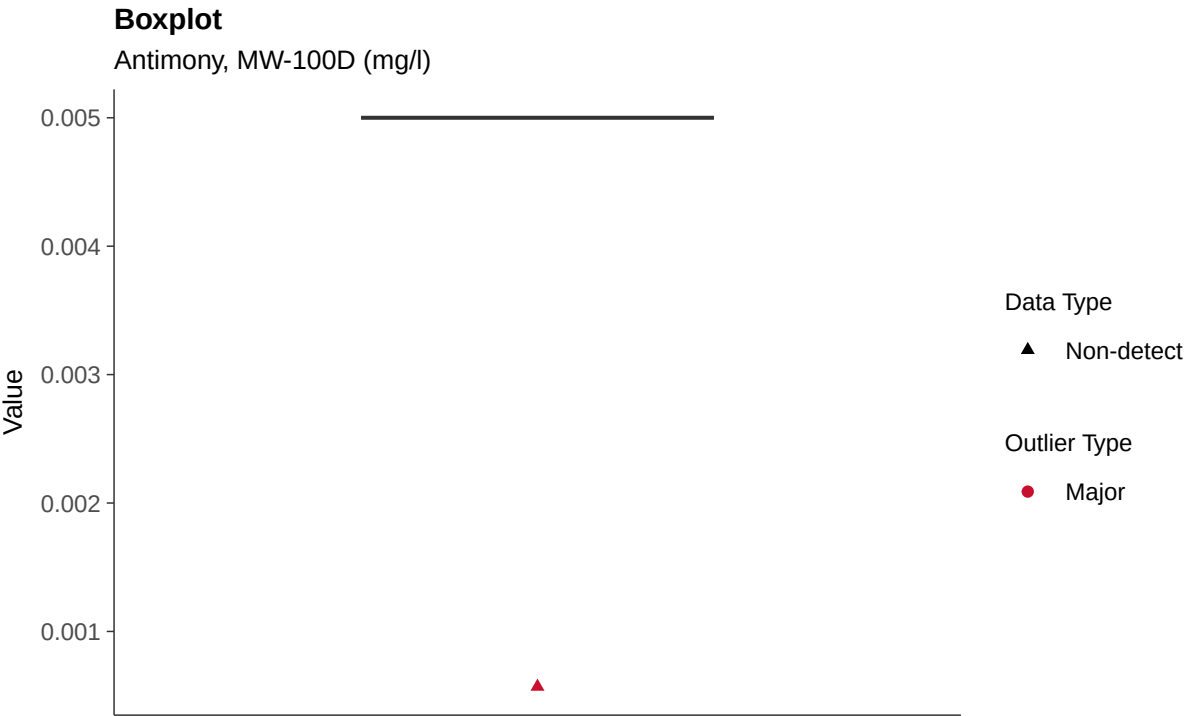




Appendix IV: Antimony, MW-100D

ID: 19_3_101

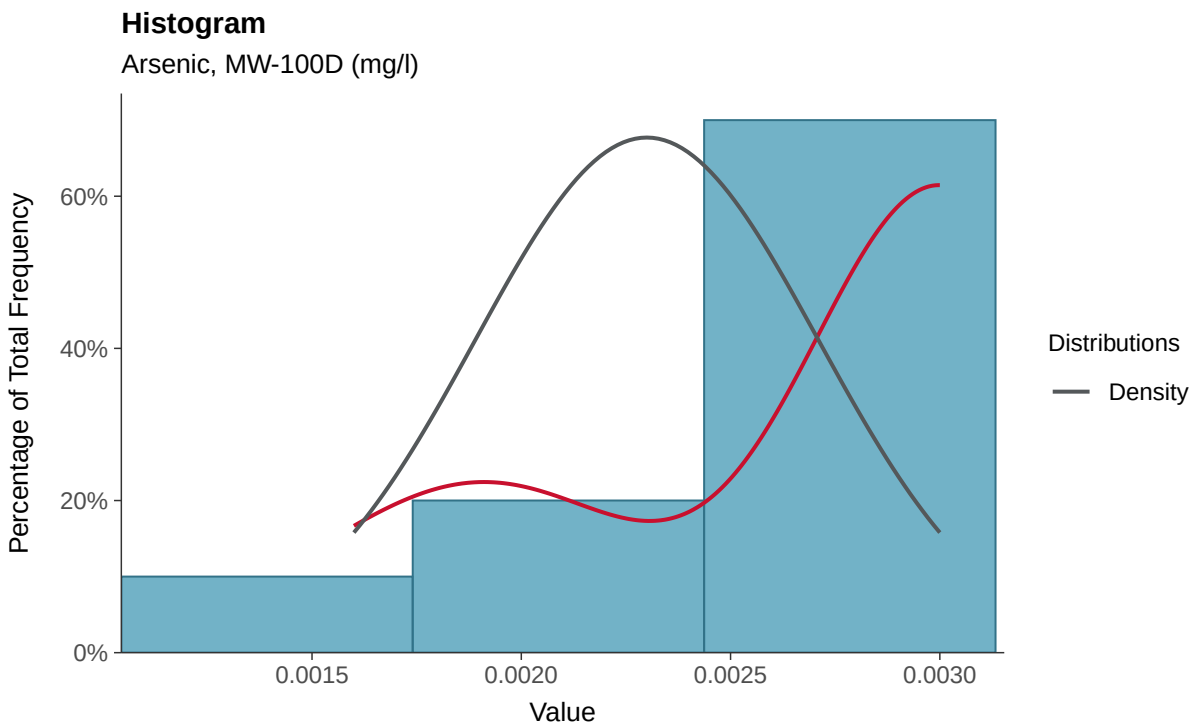
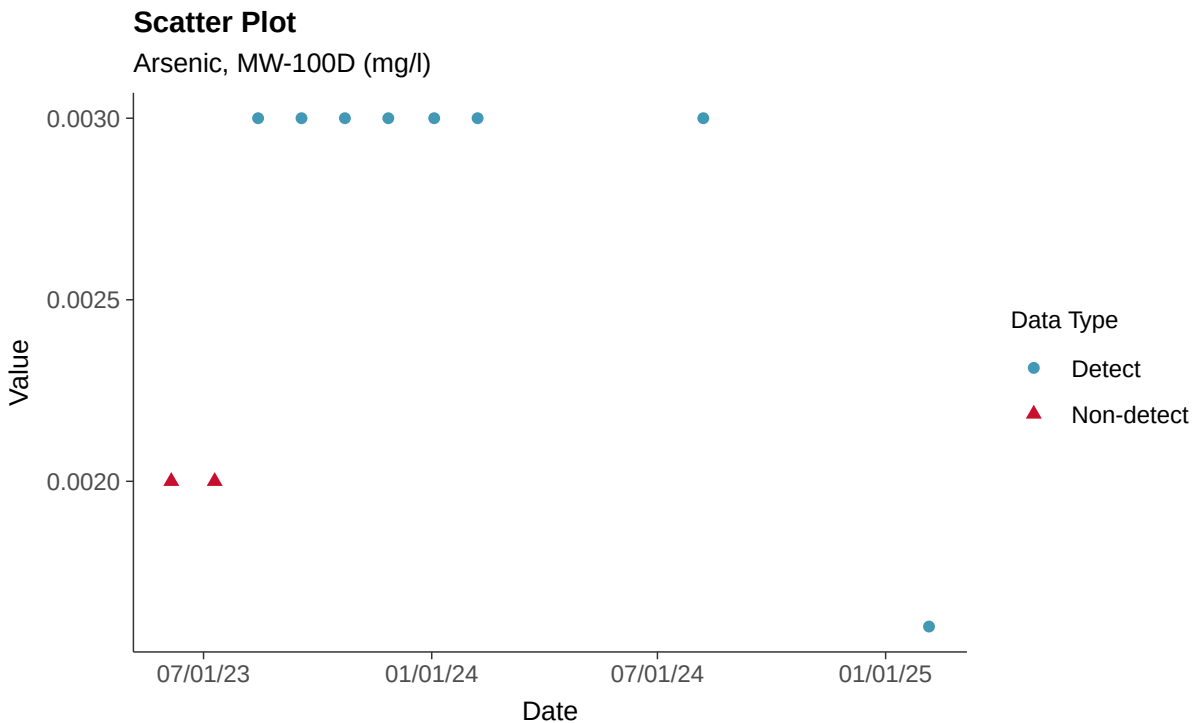


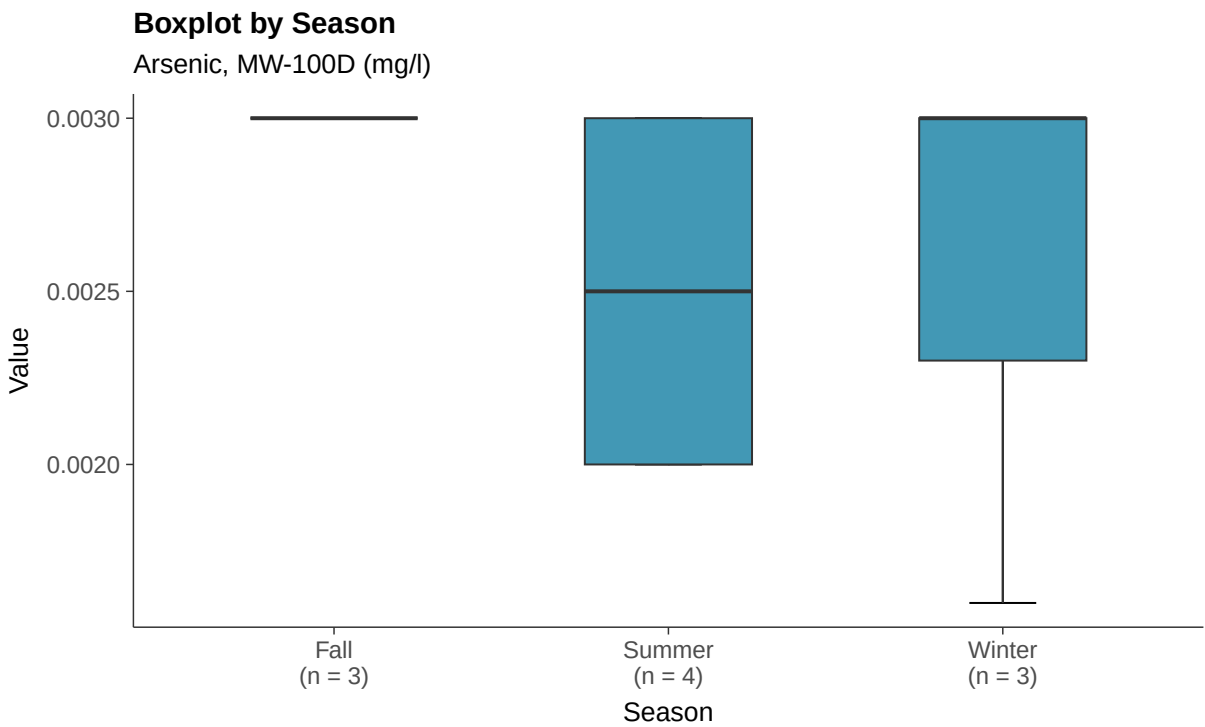
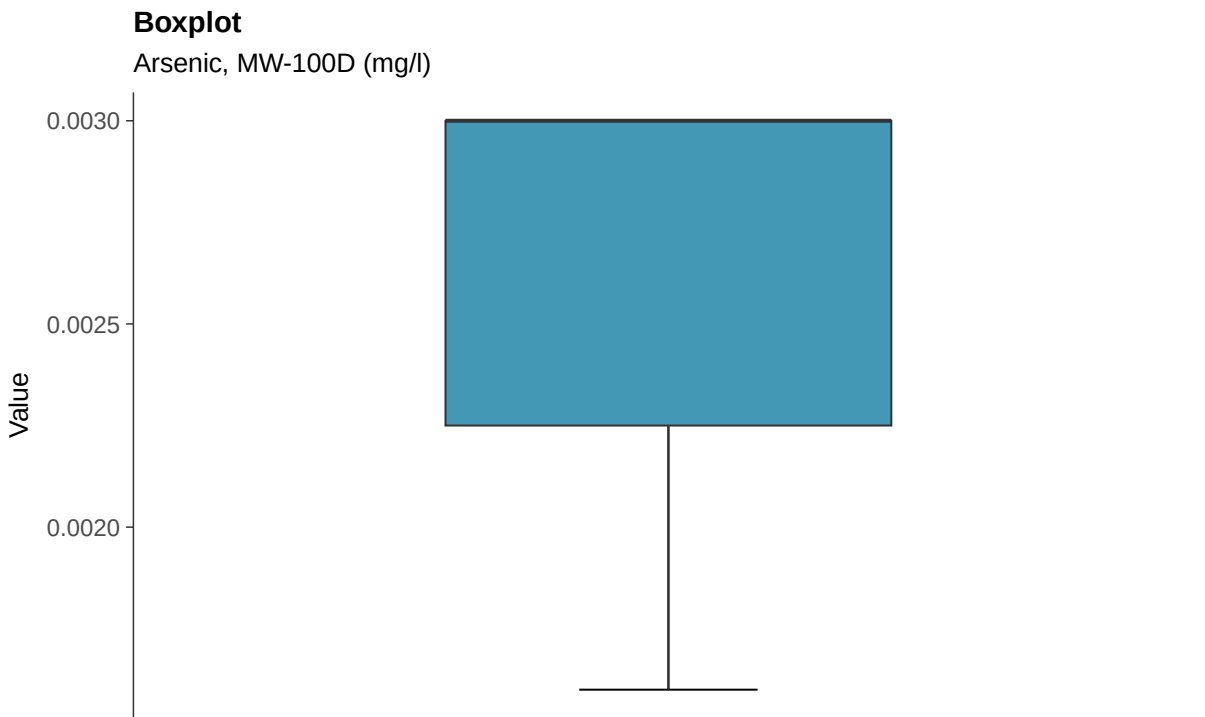


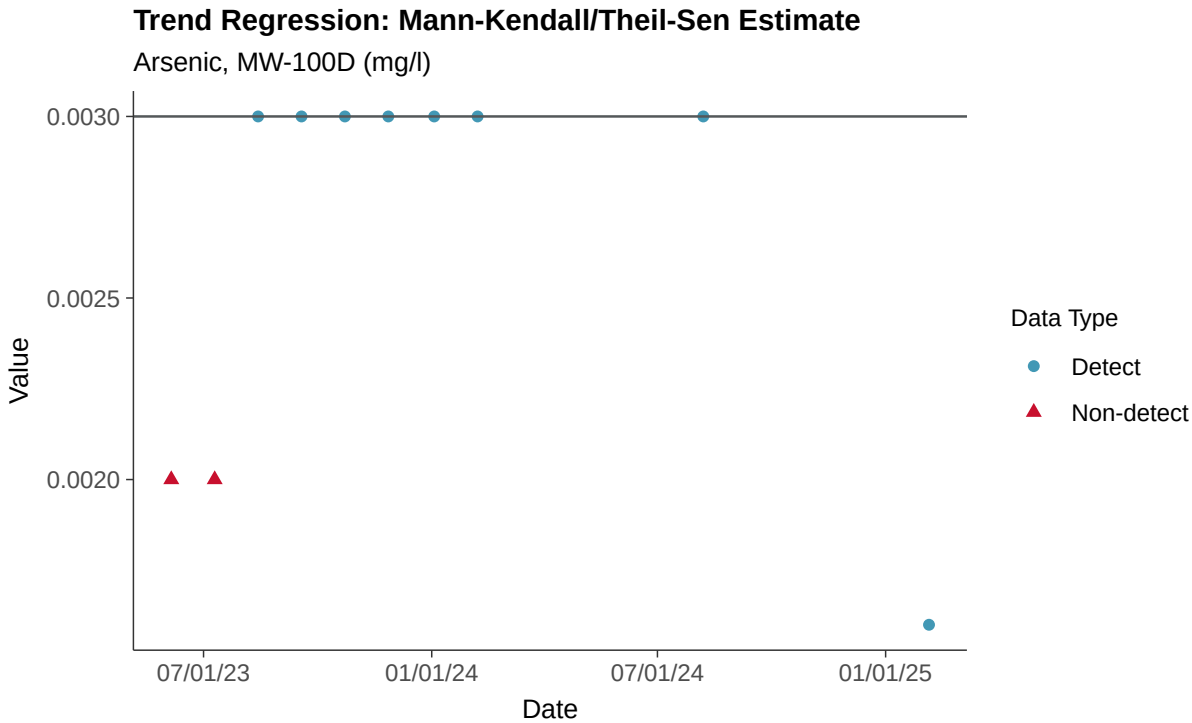
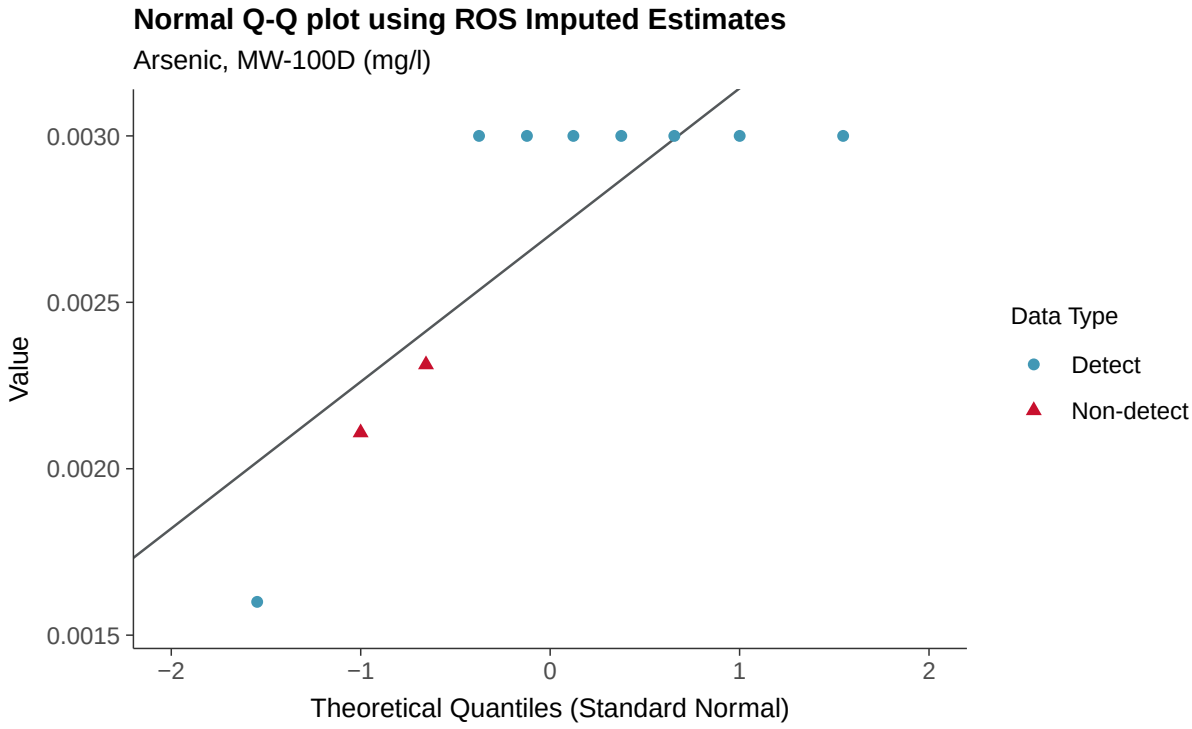


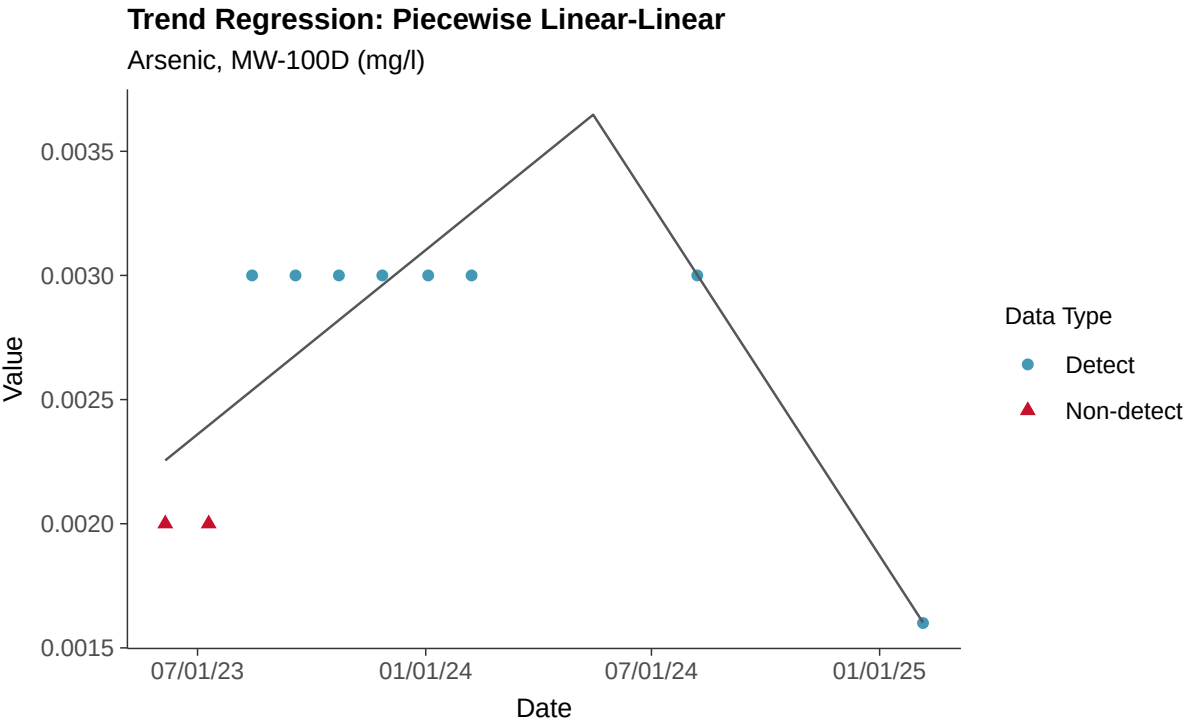
Appendix IV: Arsenic, MW-100D

ID: 19_3_102





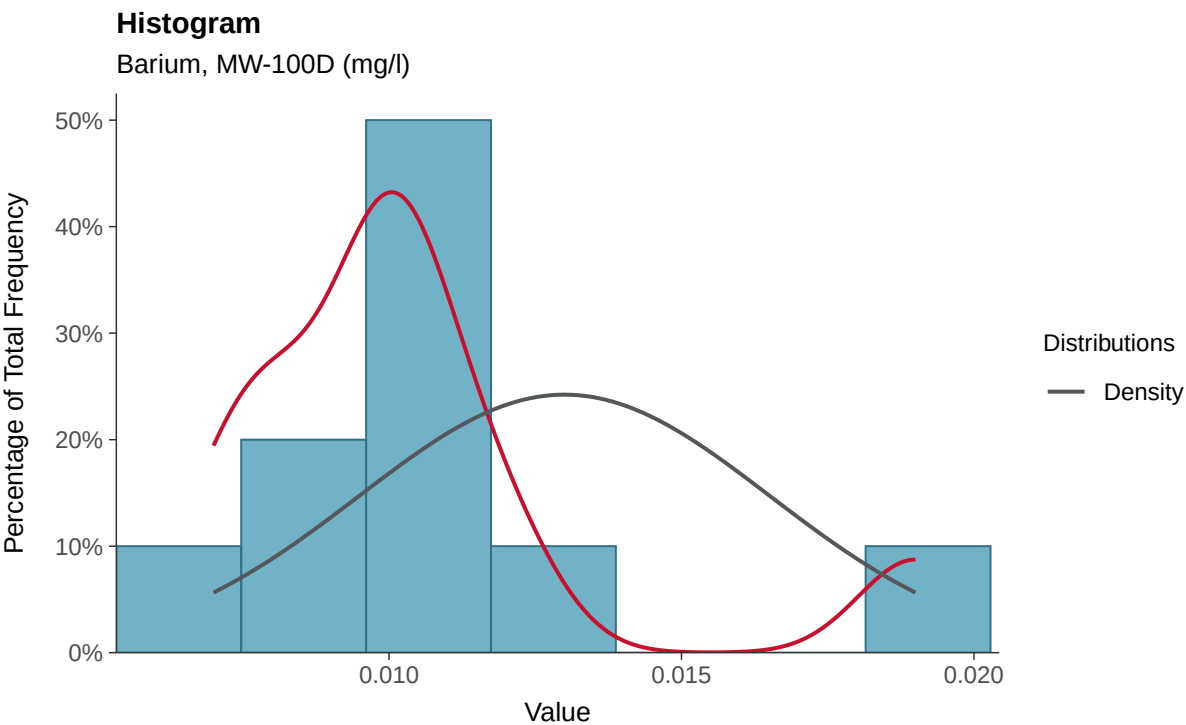
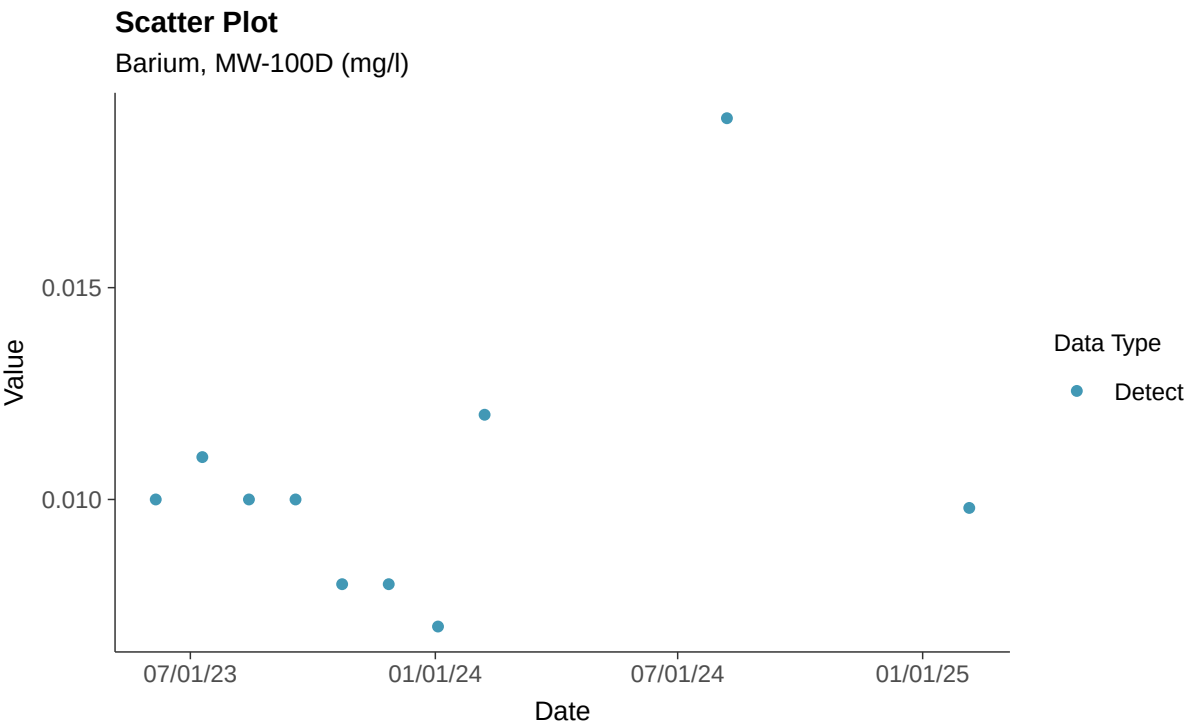


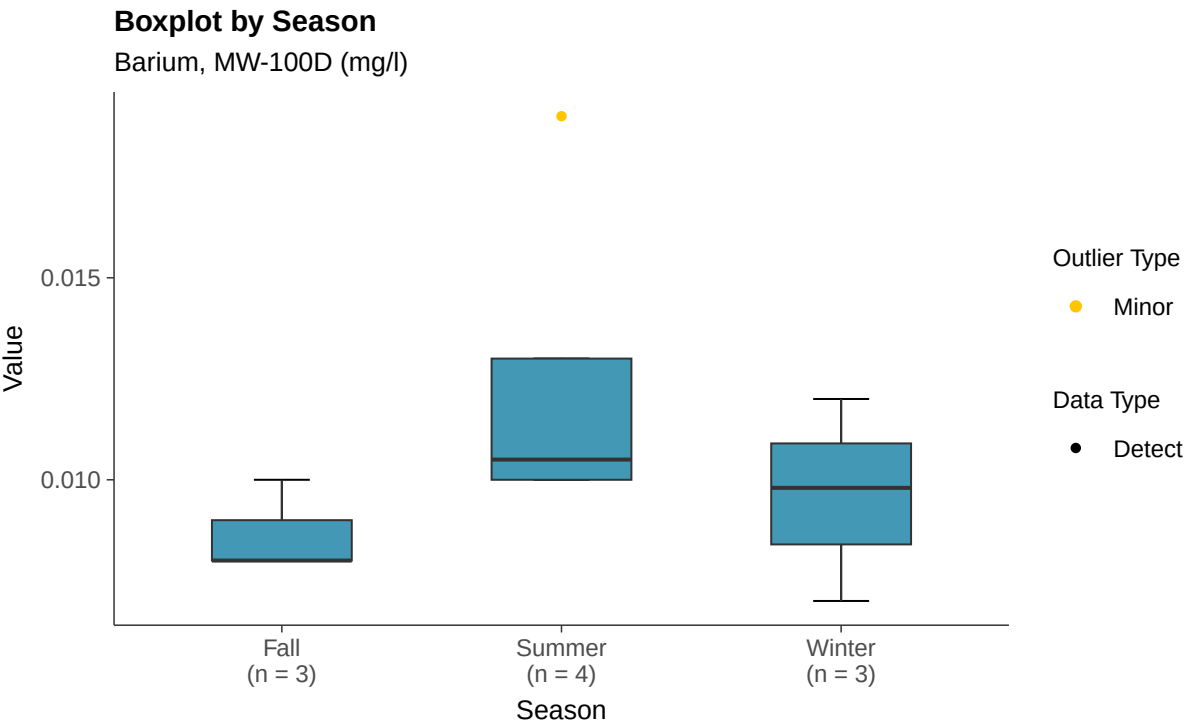
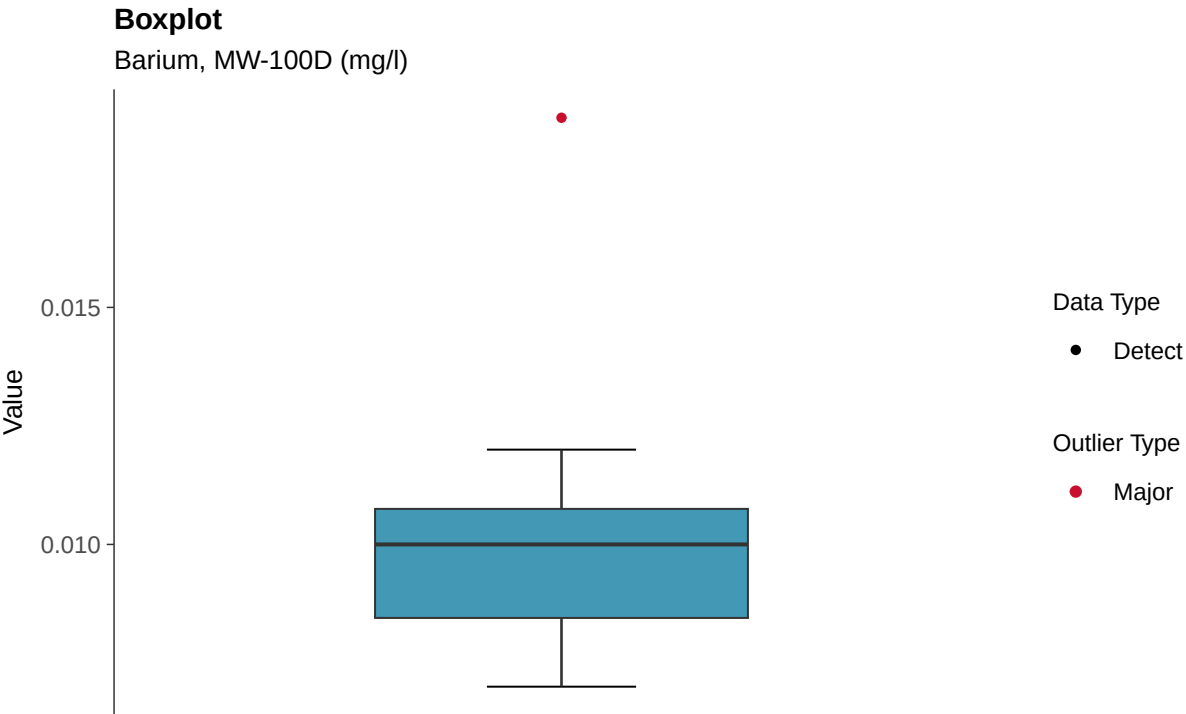


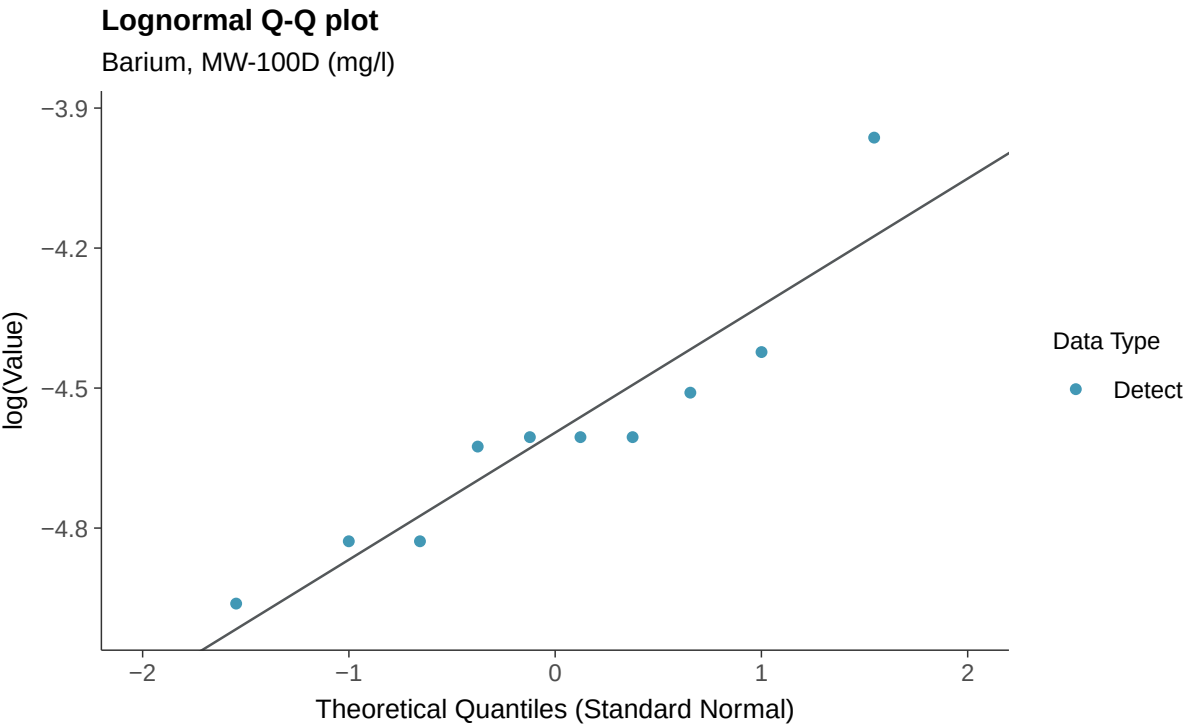
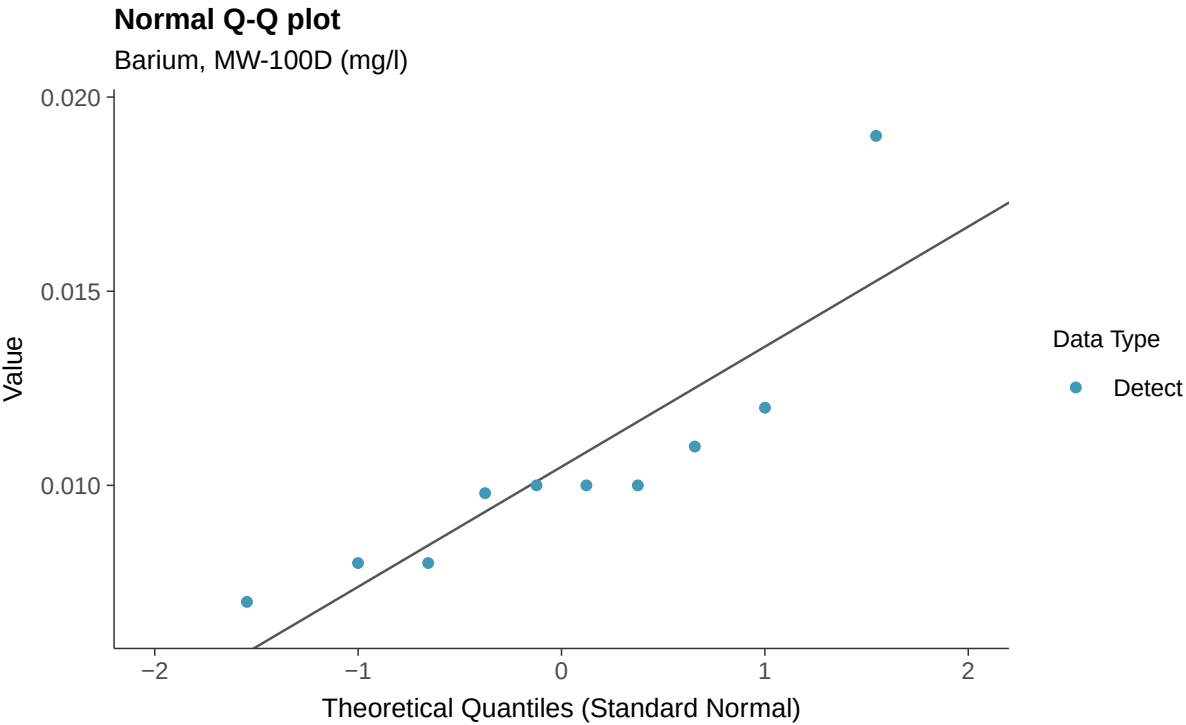


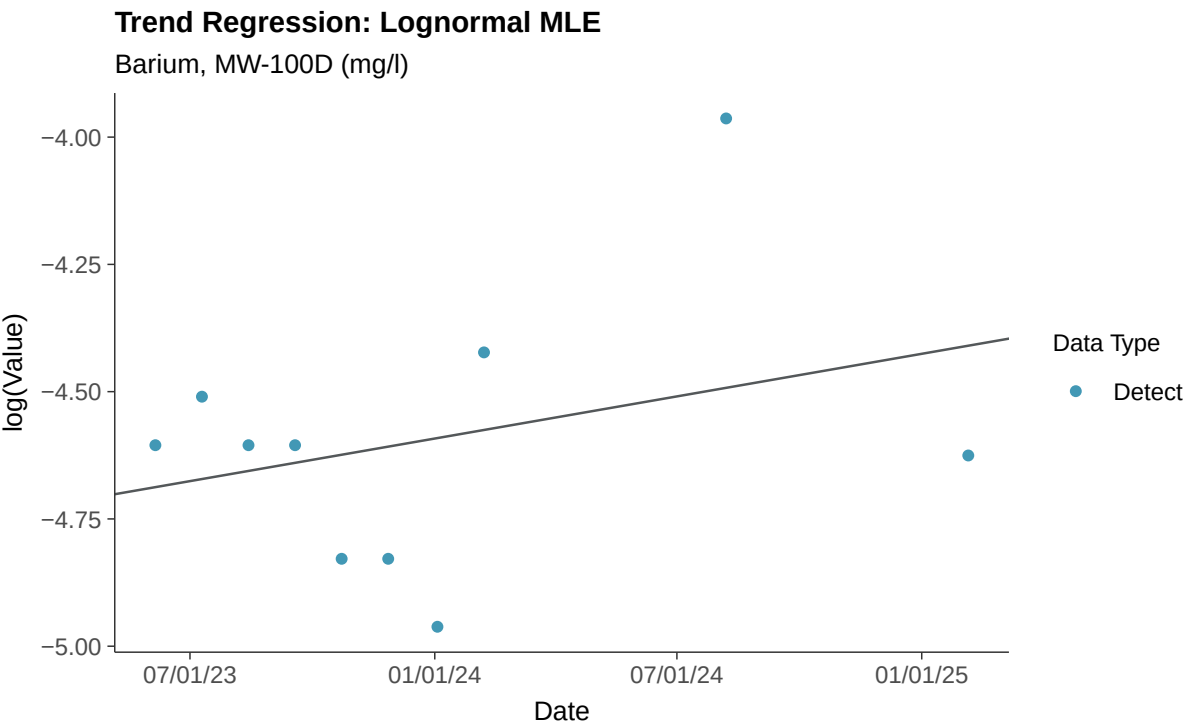
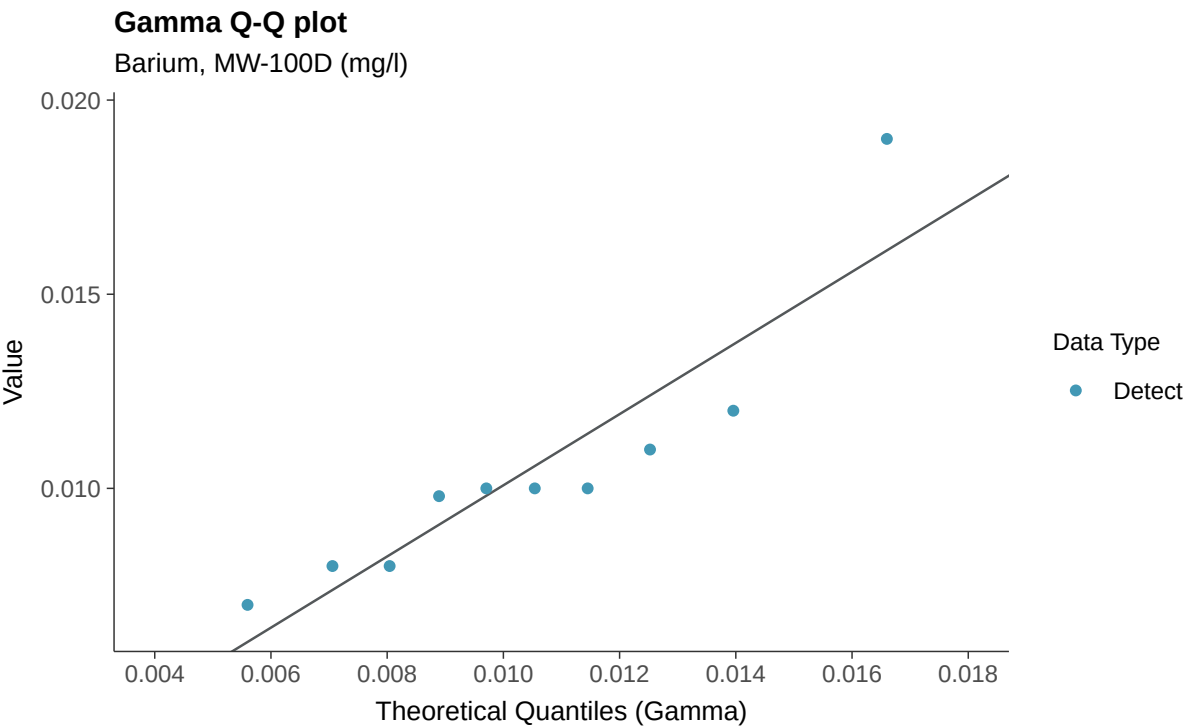
Appendix IV: Barium, MW-100D

ID: 19_3_103





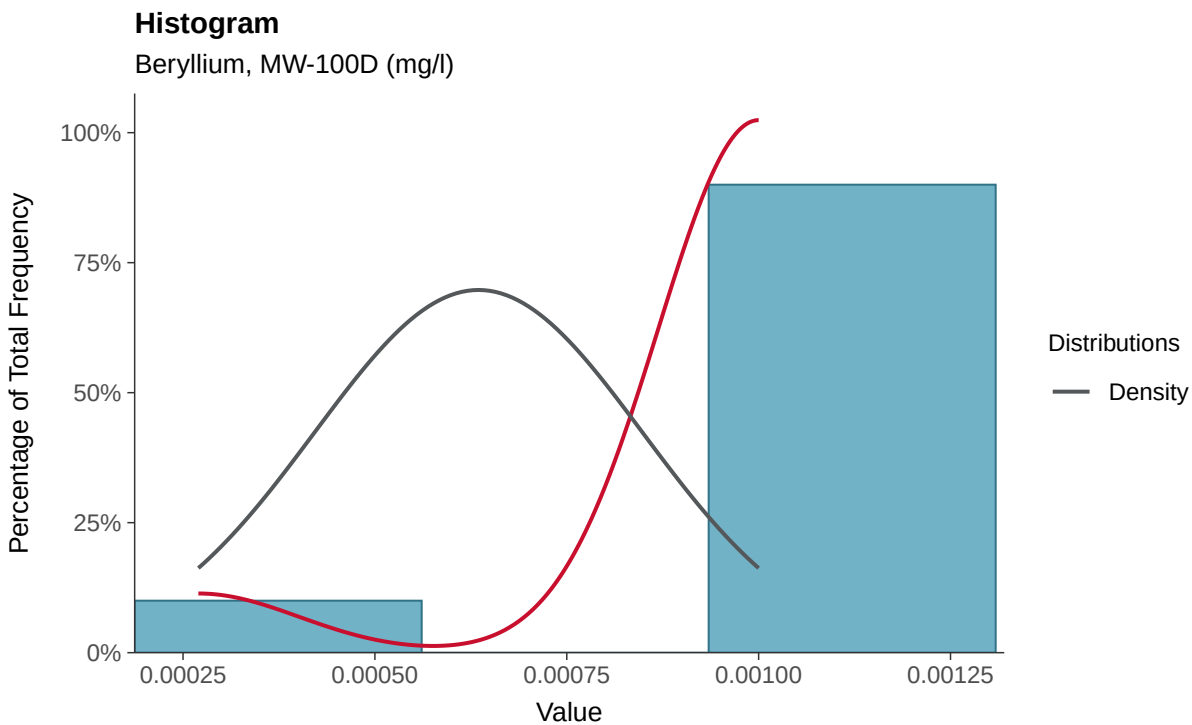
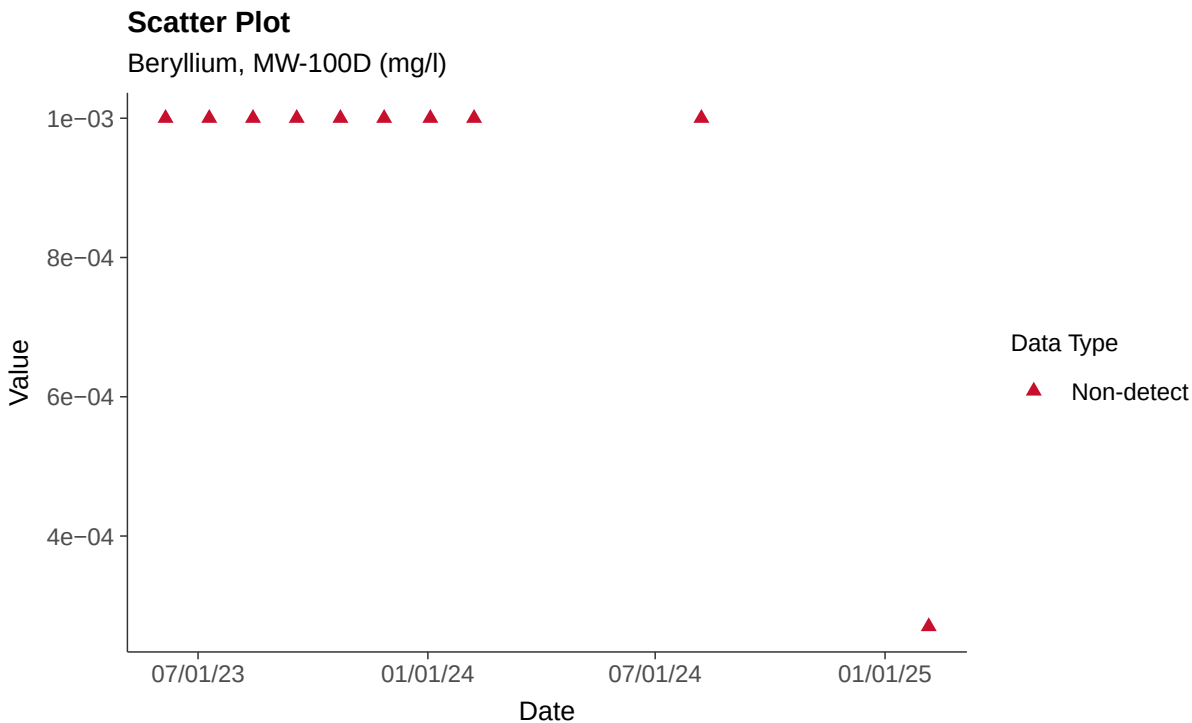


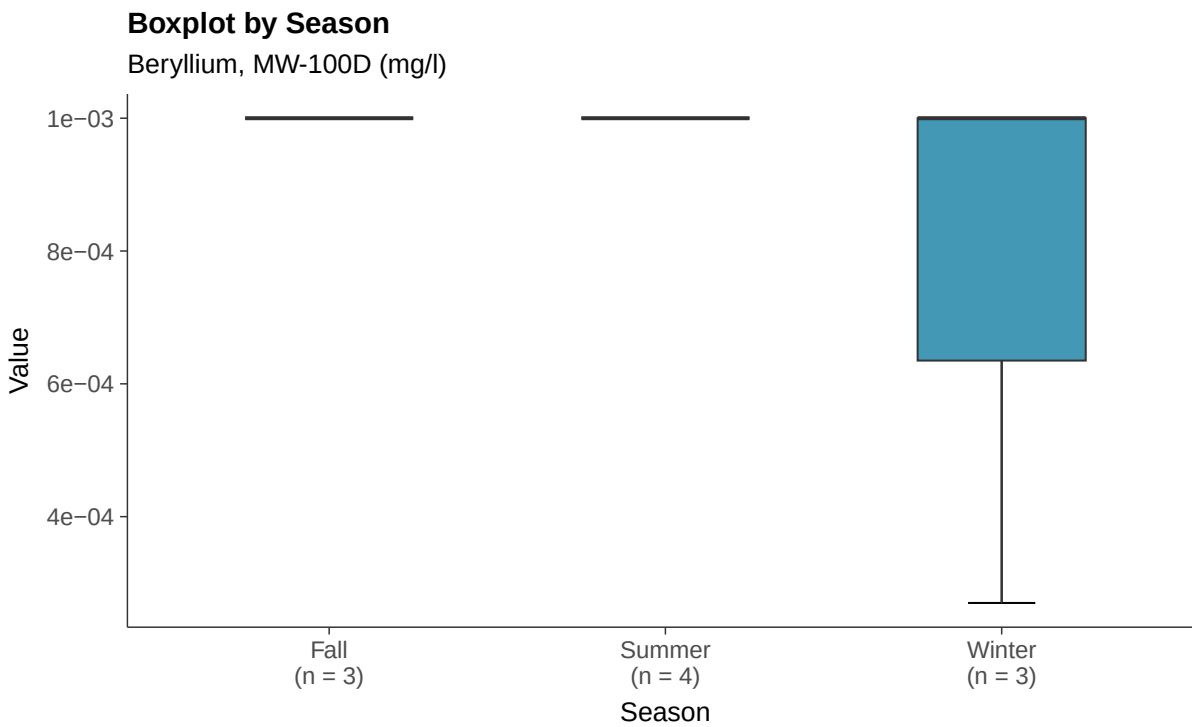
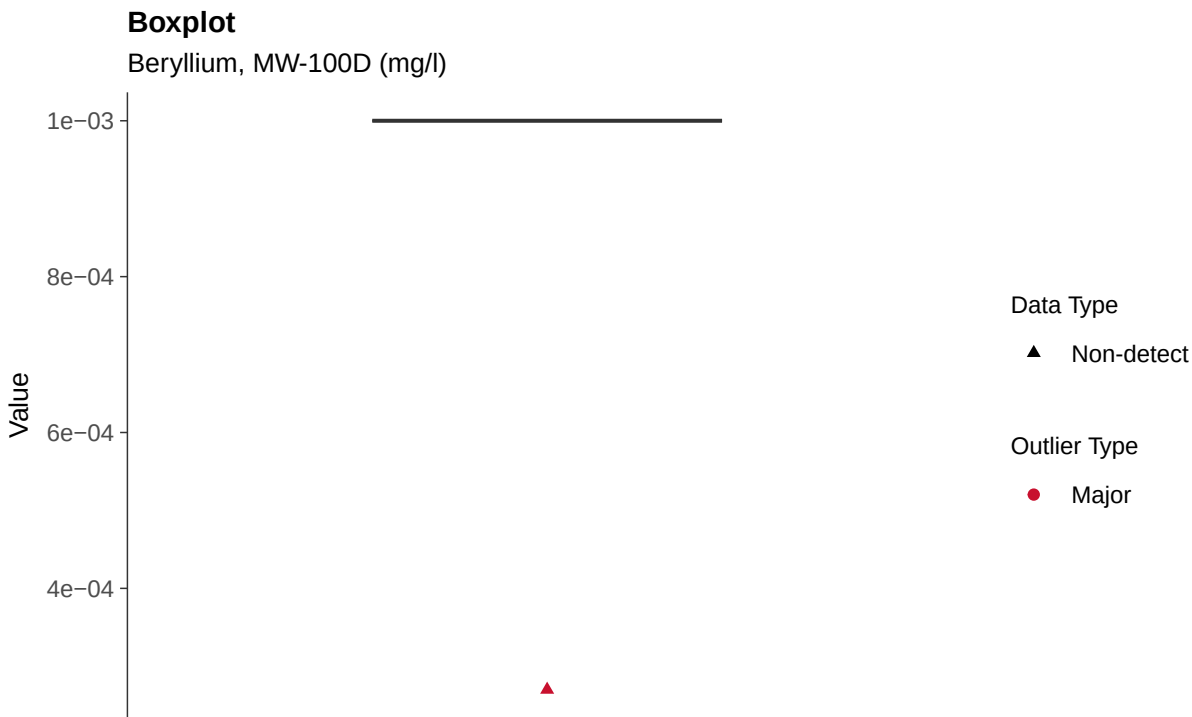




Appendix IV: Beryllium, MW-100D

ID: 19_3_104

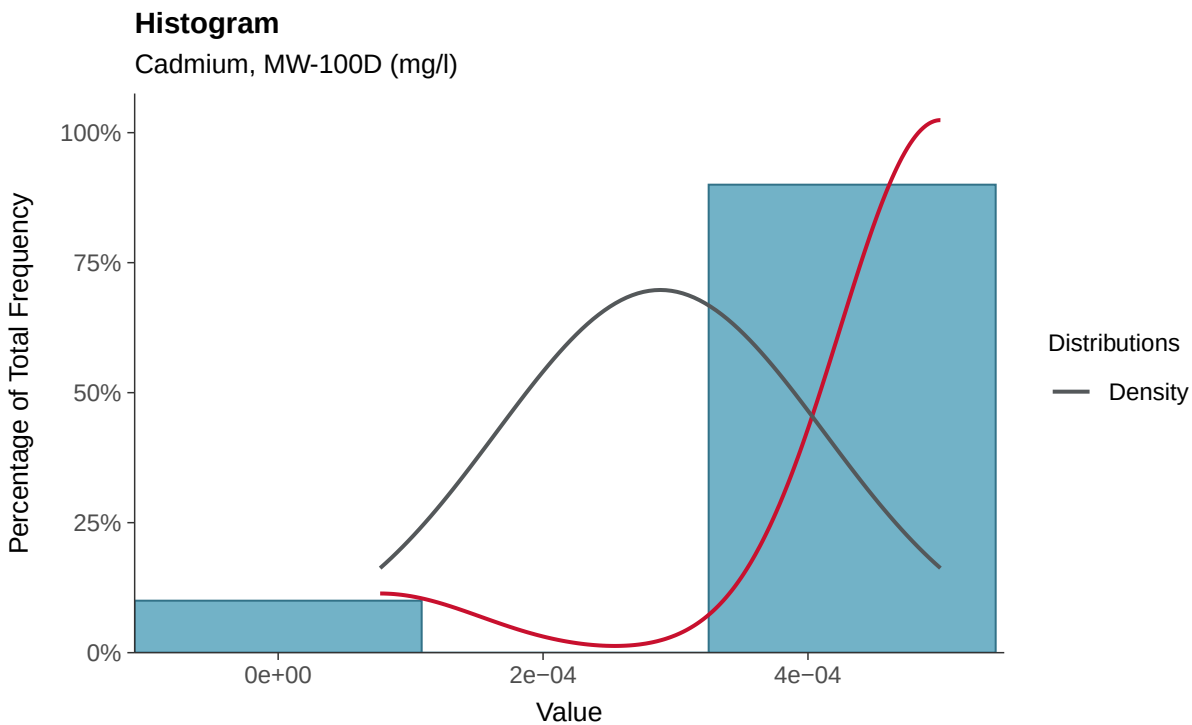
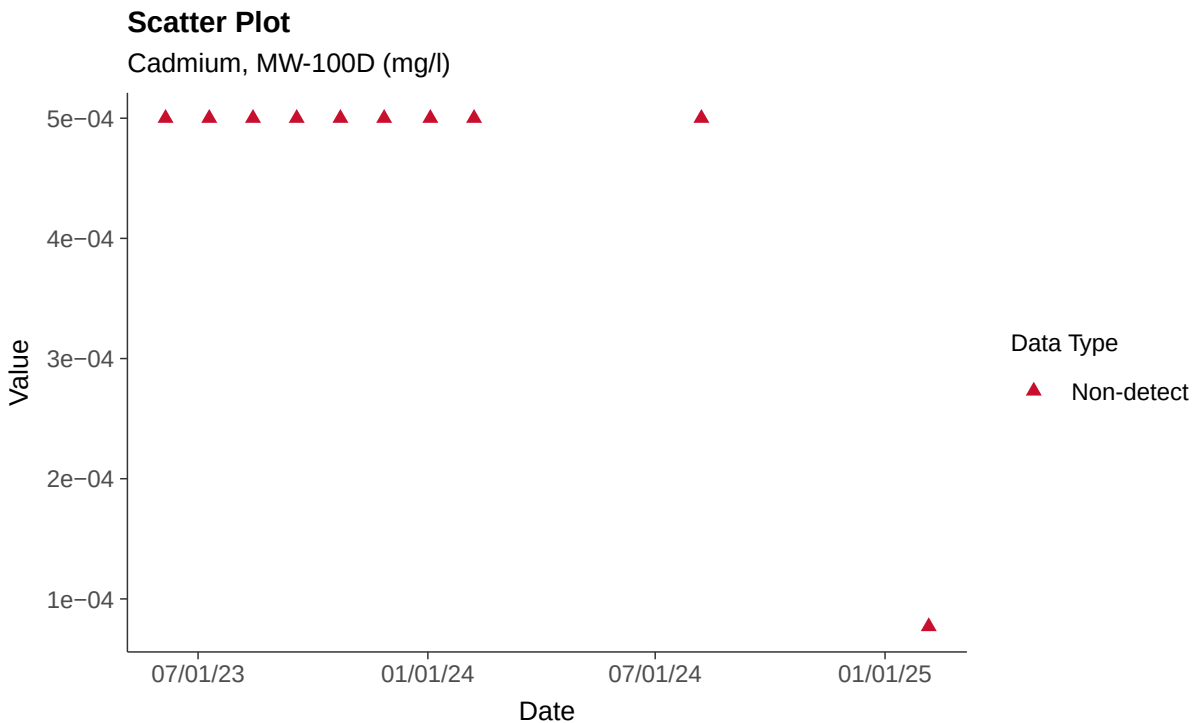


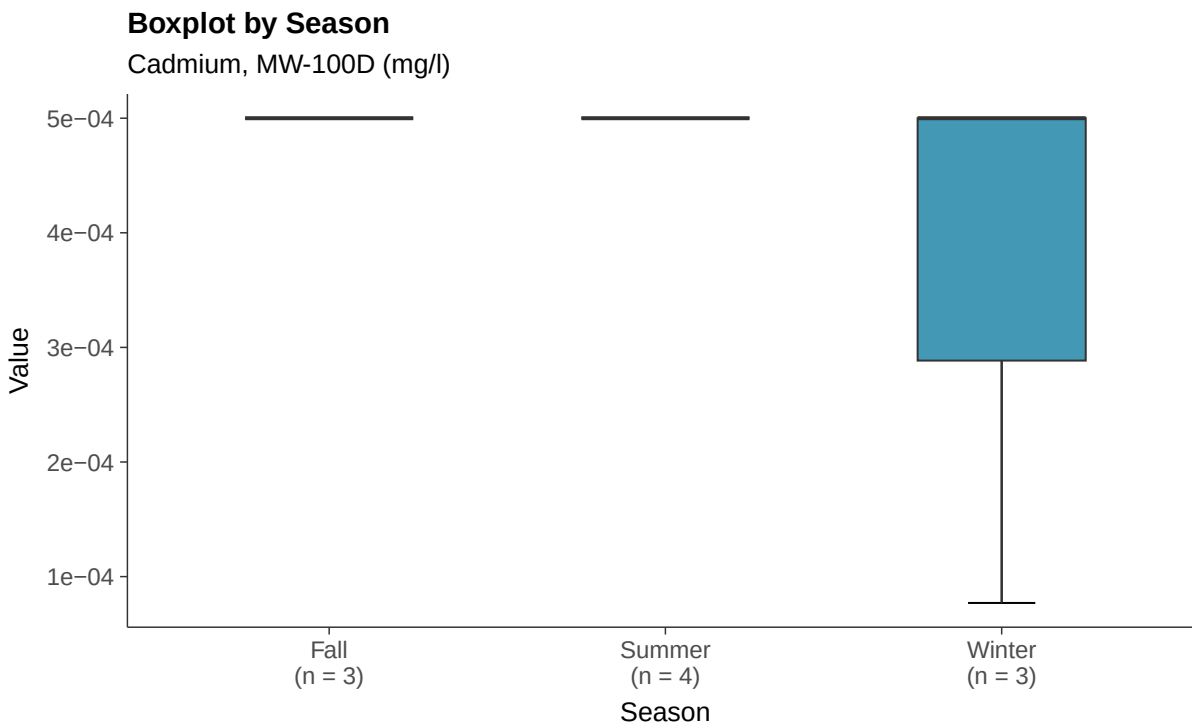
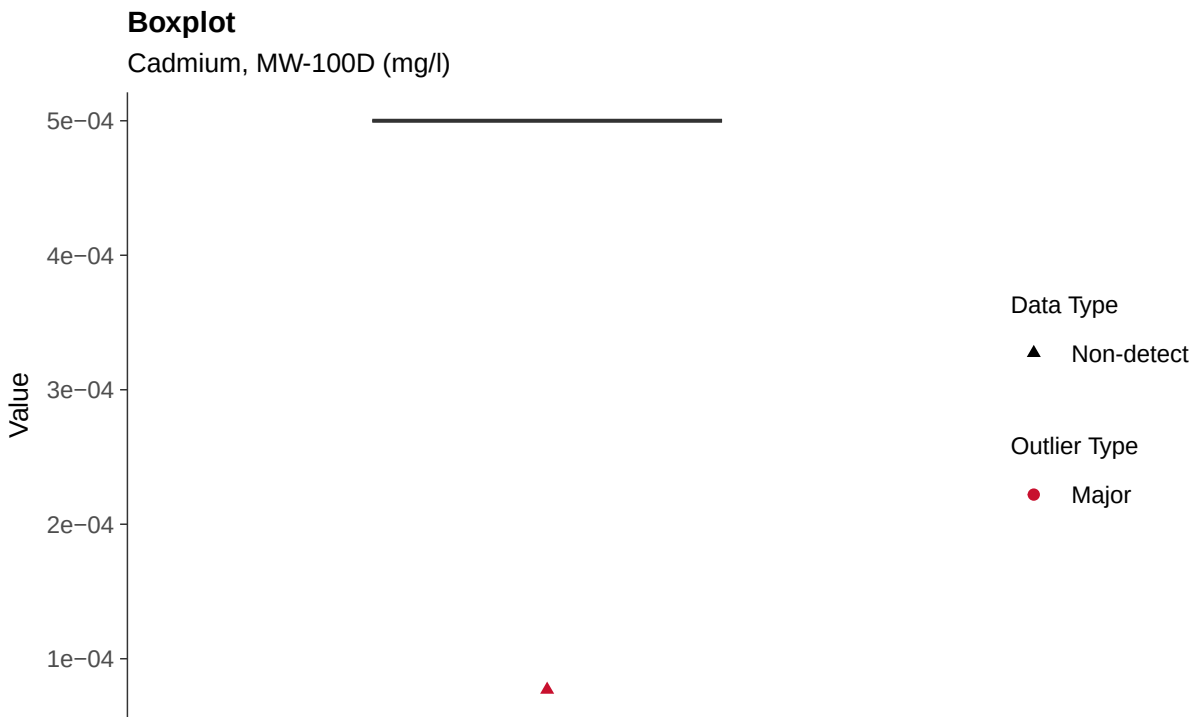




Appendix IV: Cadmium, MW-100D

ID: 19_3_106

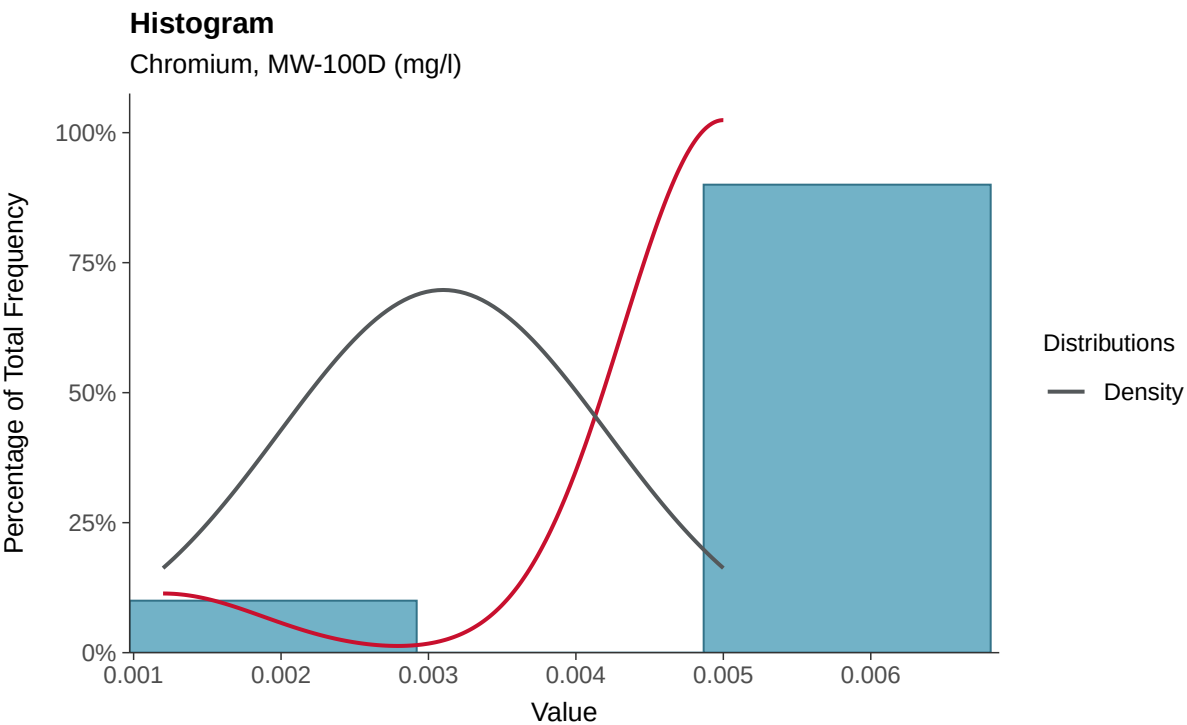
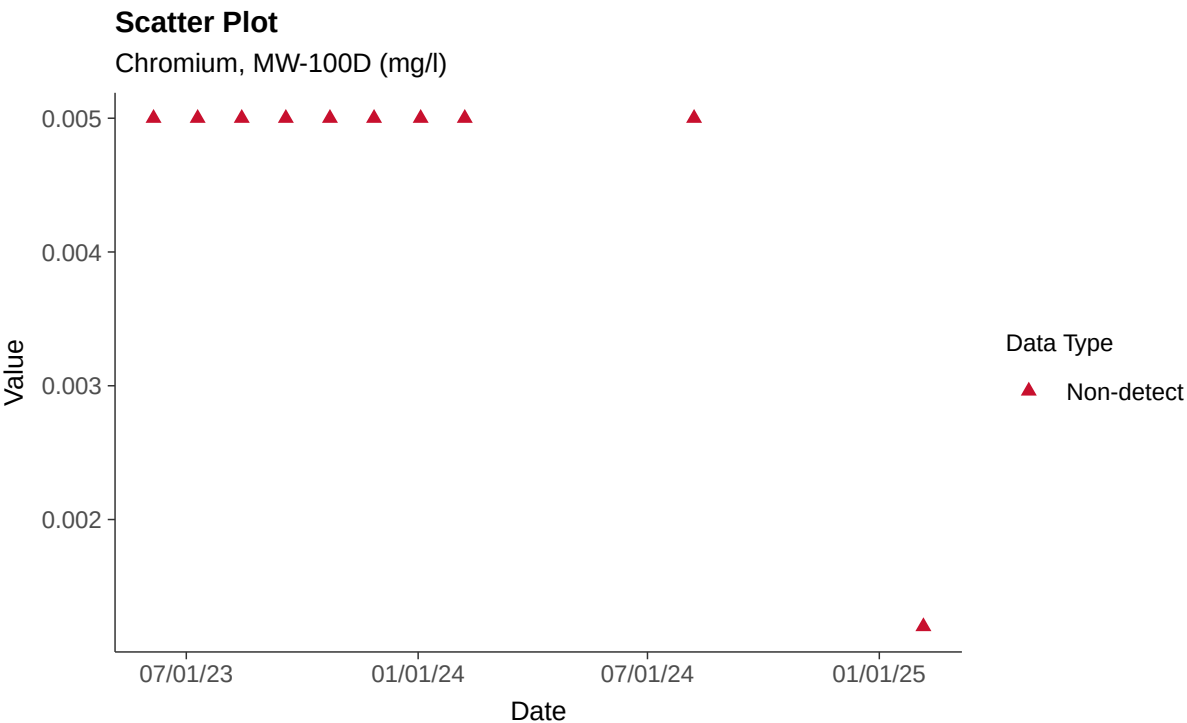


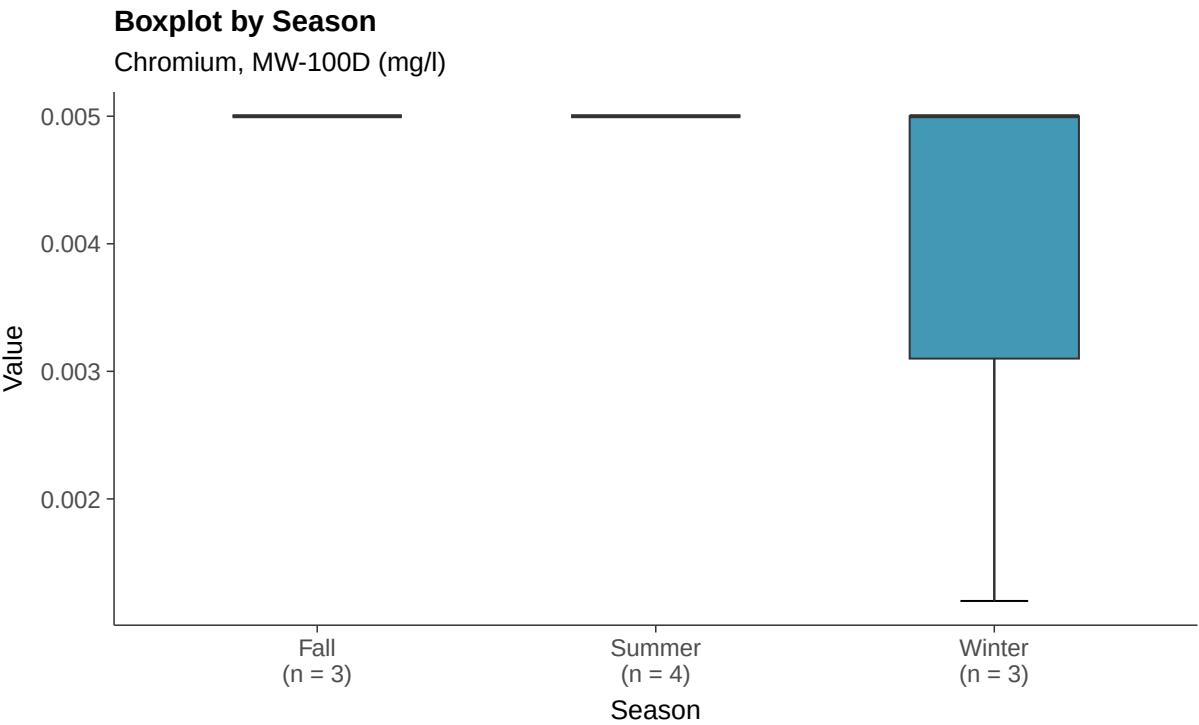
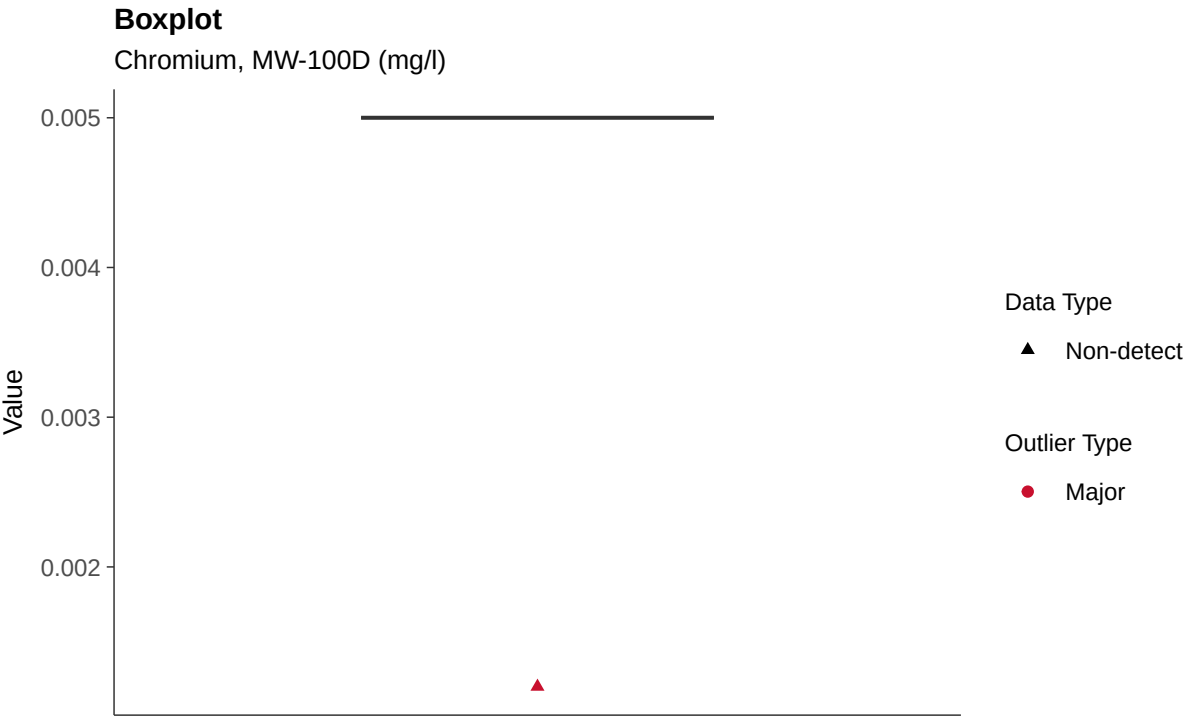




Appendix IV: Chromium, MW-100D

ID: 19_3_109

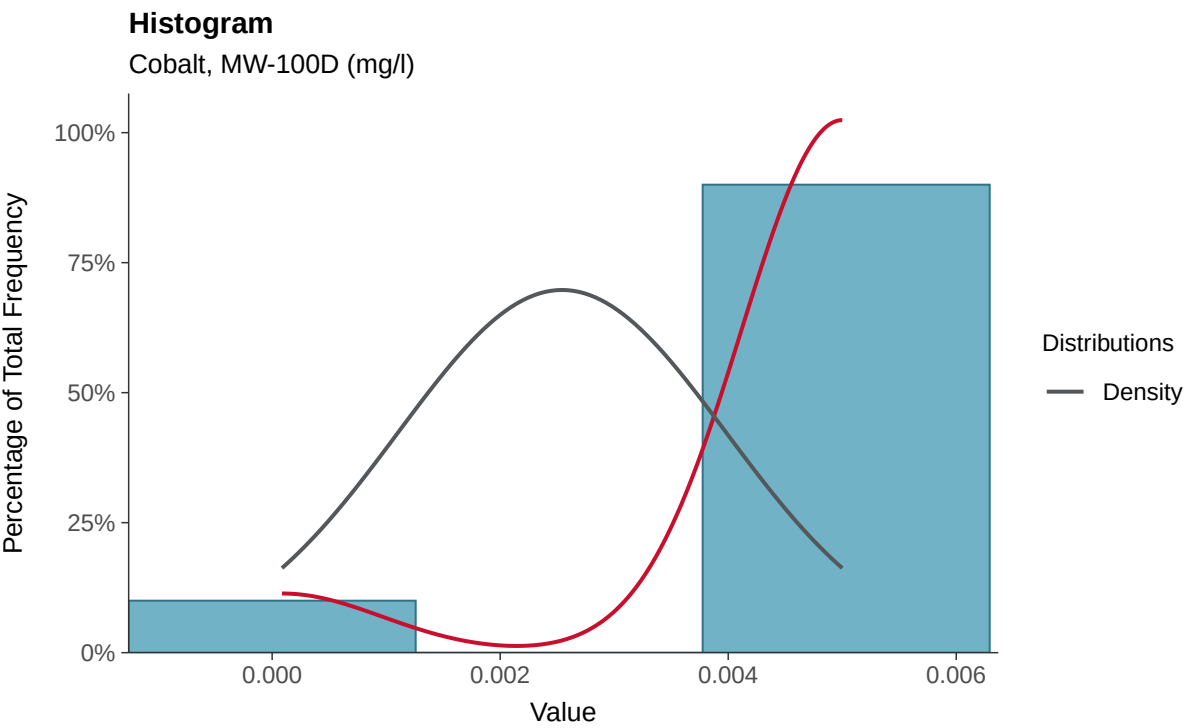
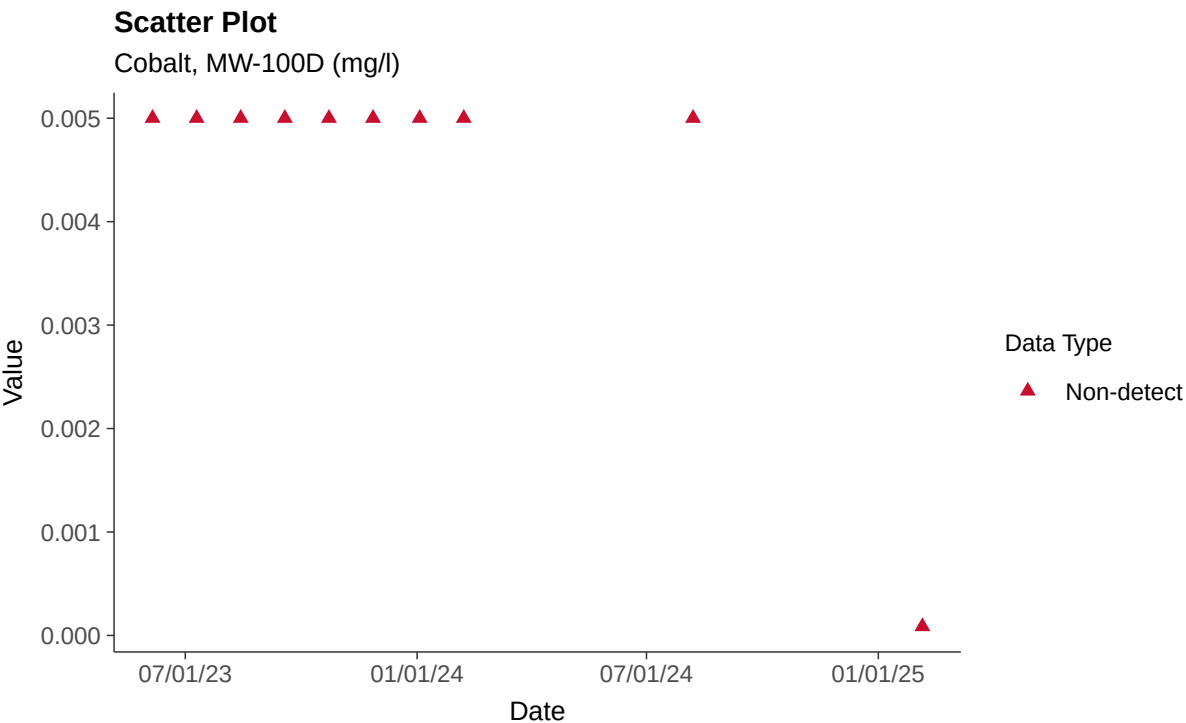


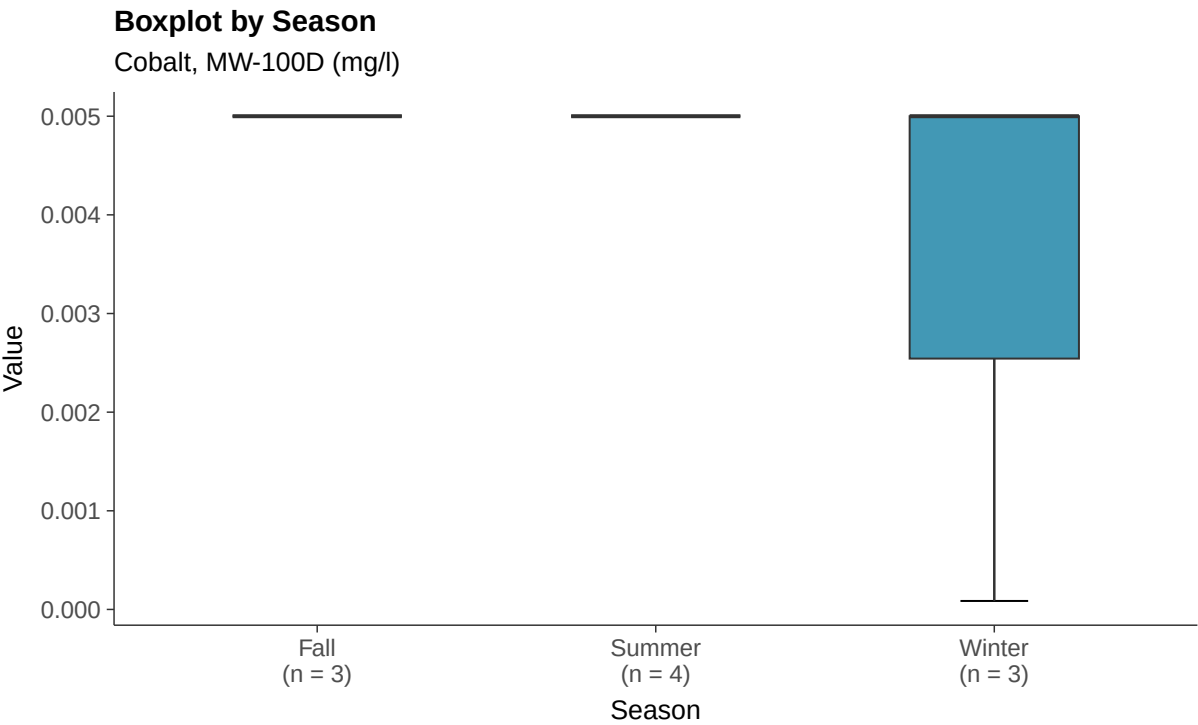
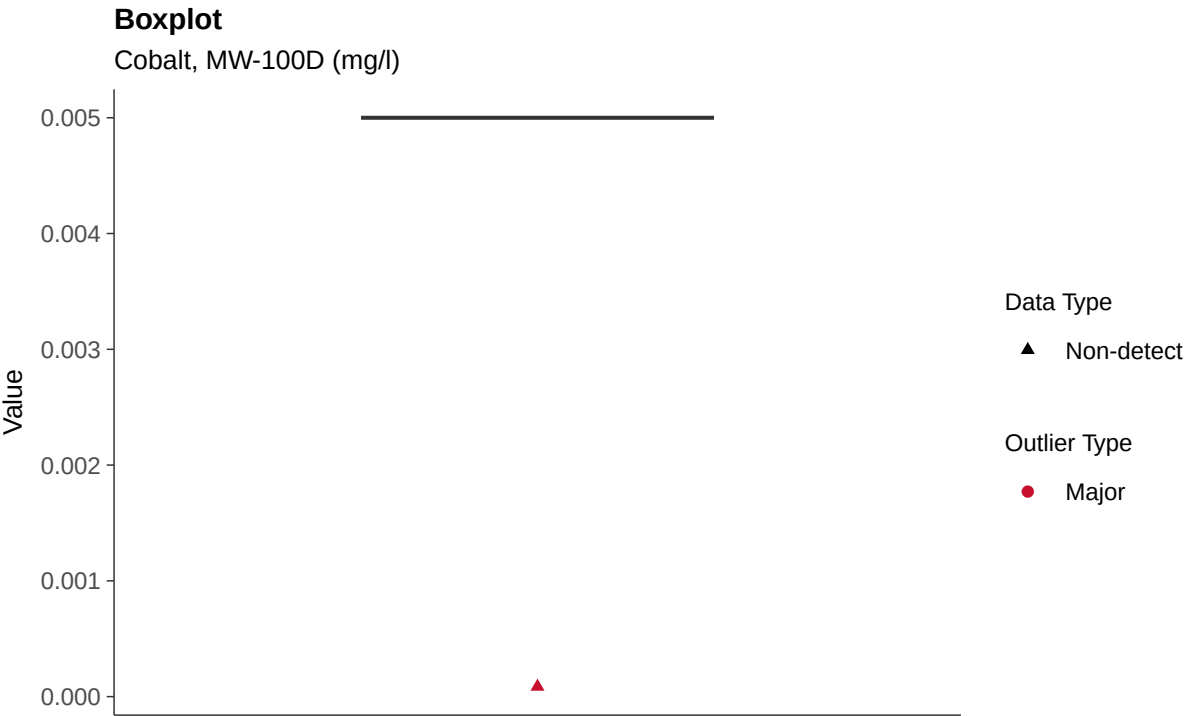




Appendix IV: Cobalt, MW-100D

ID: 19_3_110

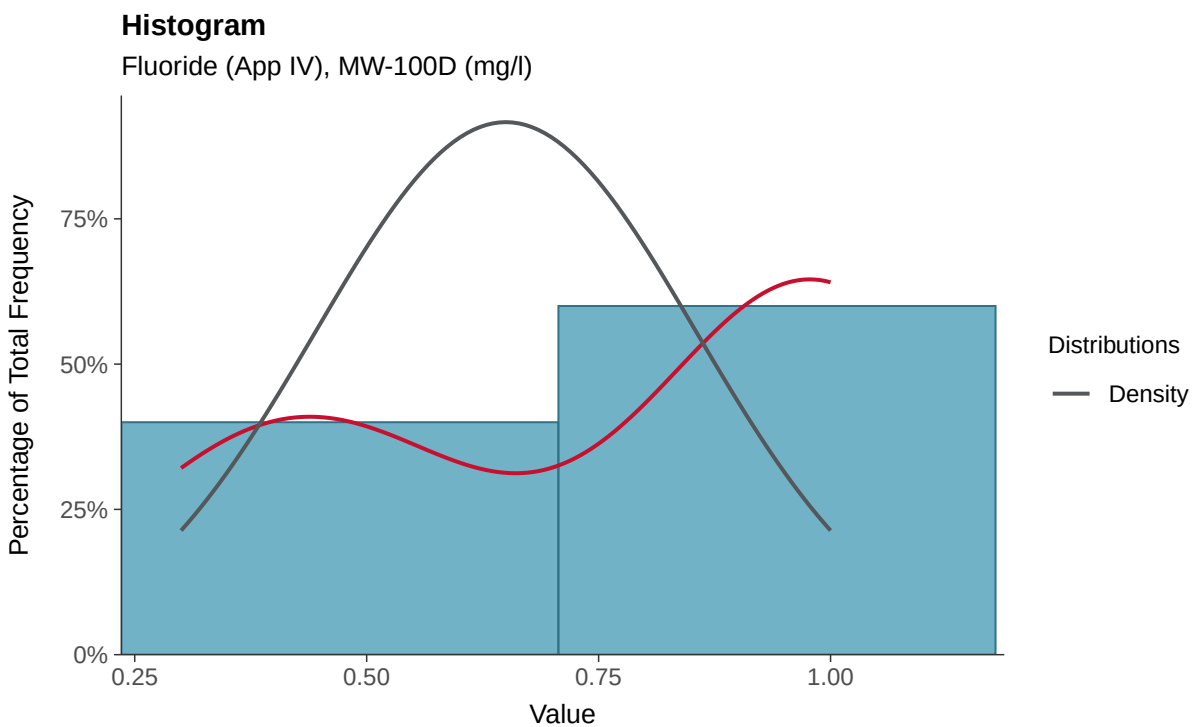
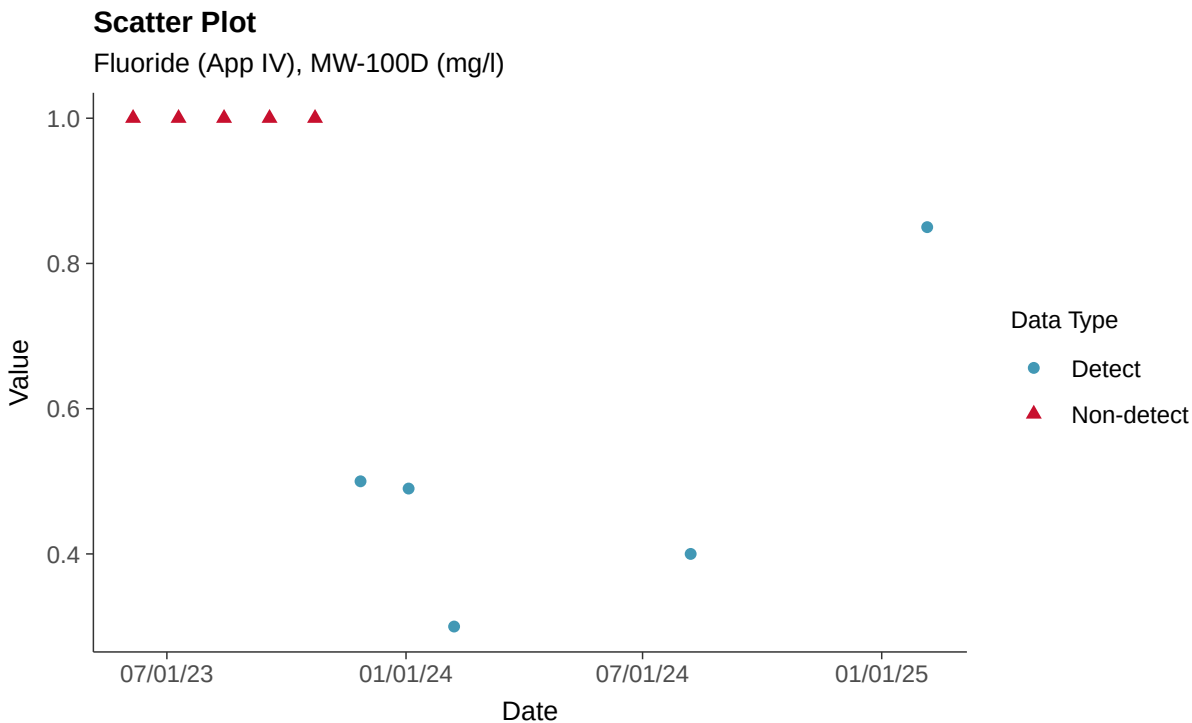






Appendix IV: Fluoride (App IV), MW-100D

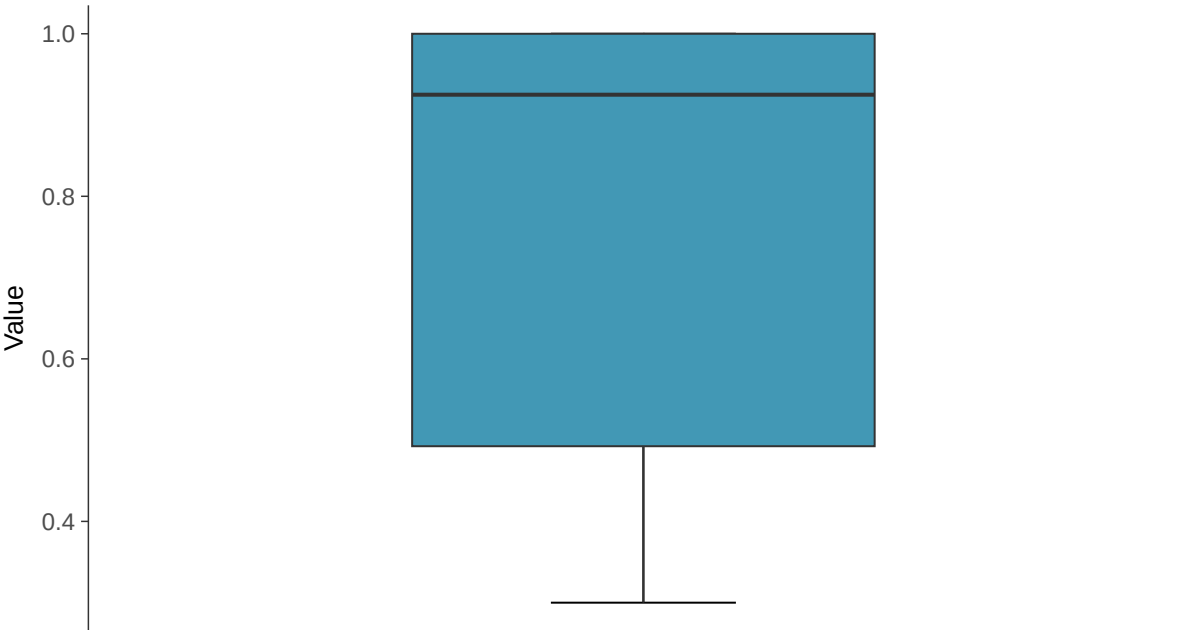
ID: 19_3_113





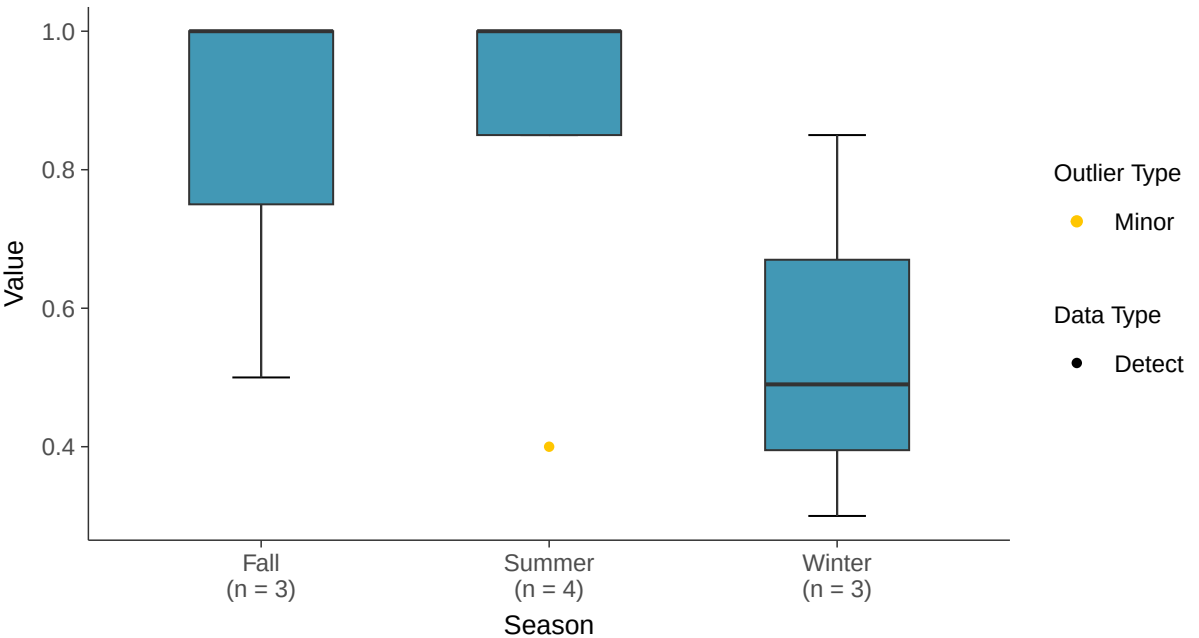
Boxplot

Fluoride (App IV), MW-100D (mg/l)



Boxplot by Season

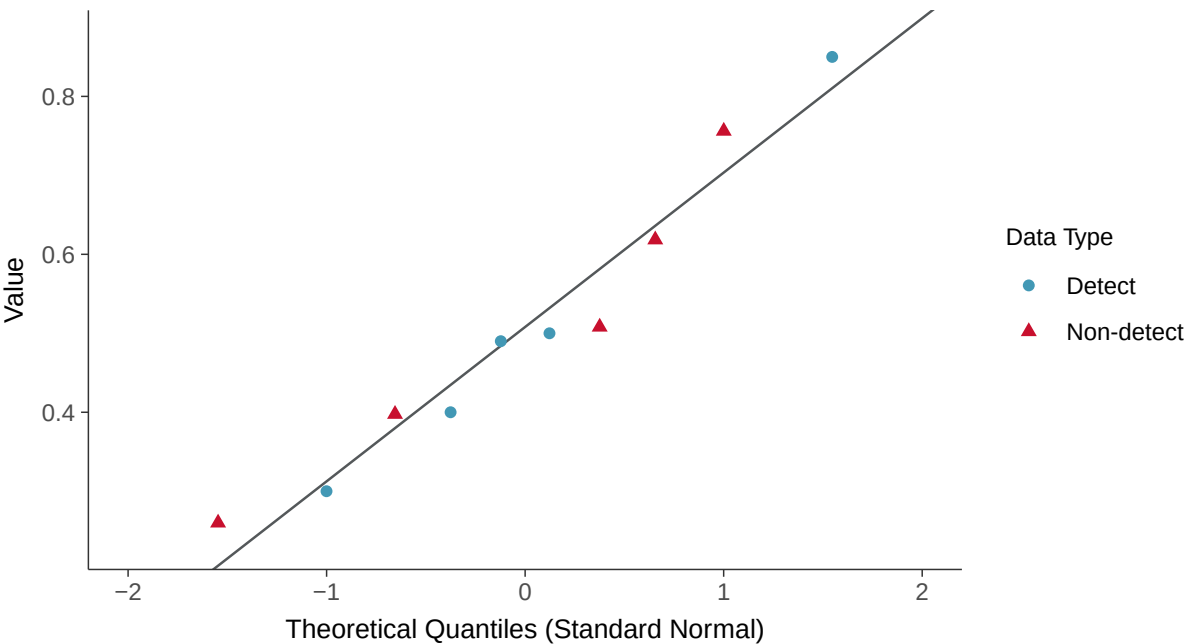
Fluoride (App IV), MW-100D (mg/l)





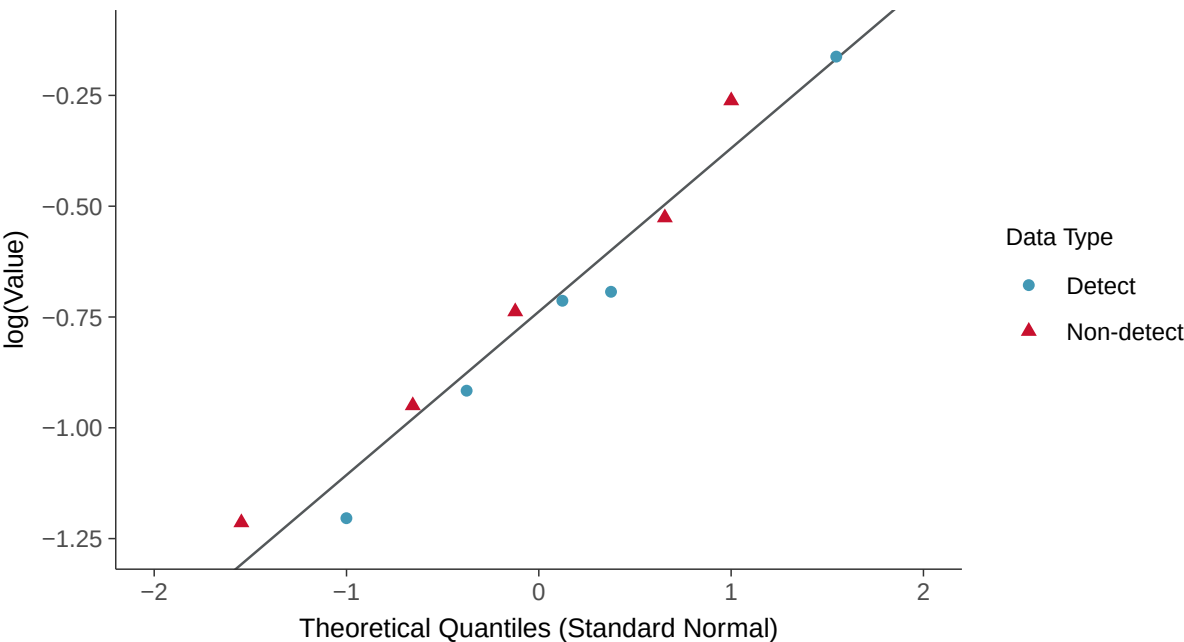
Normal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-100D (mg/l)



Lognormal Q-Q plot using ROS Imputed Estimates

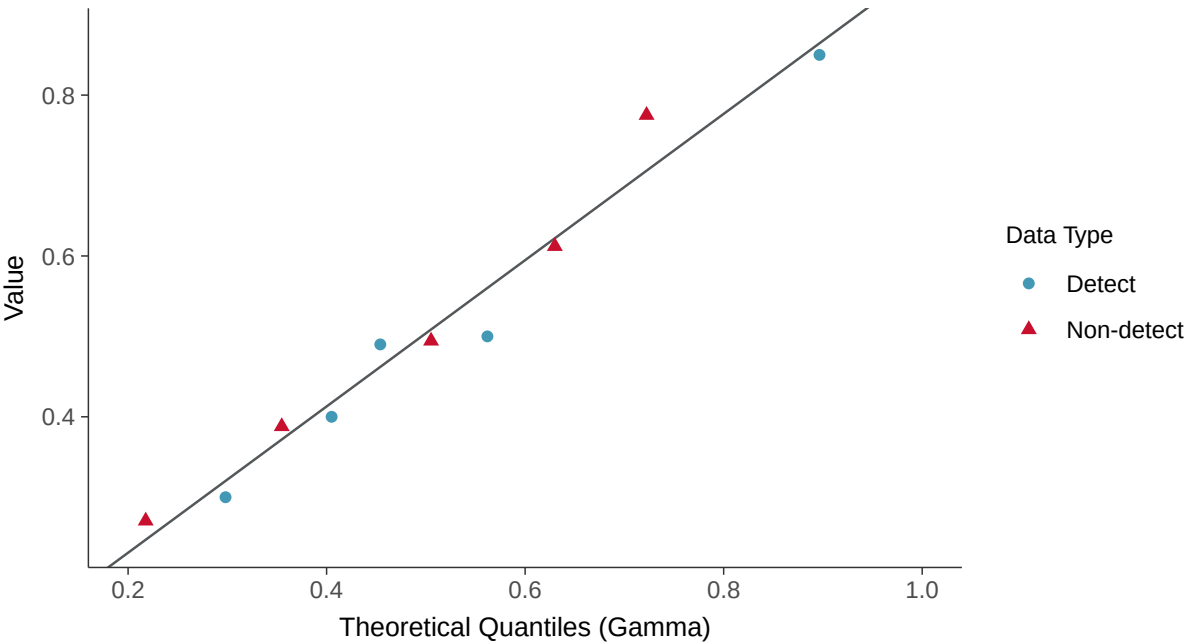
Fluoride (App IV), MW-100D (mg/l)





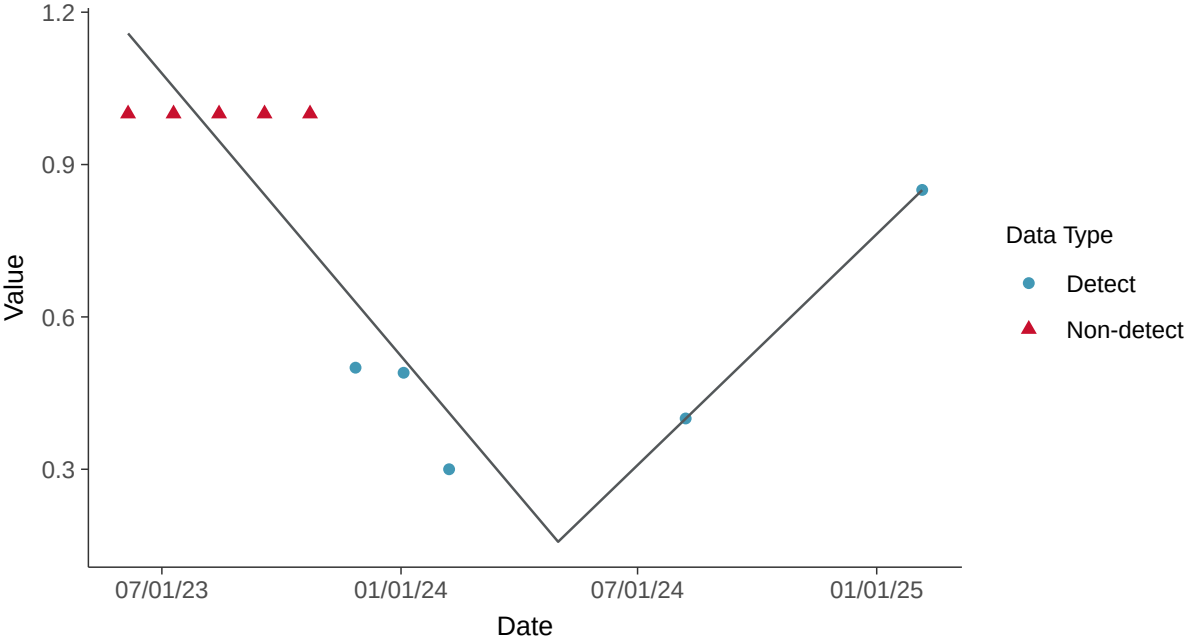
Gamma Q-Q plot using ROS Imputed Estimates

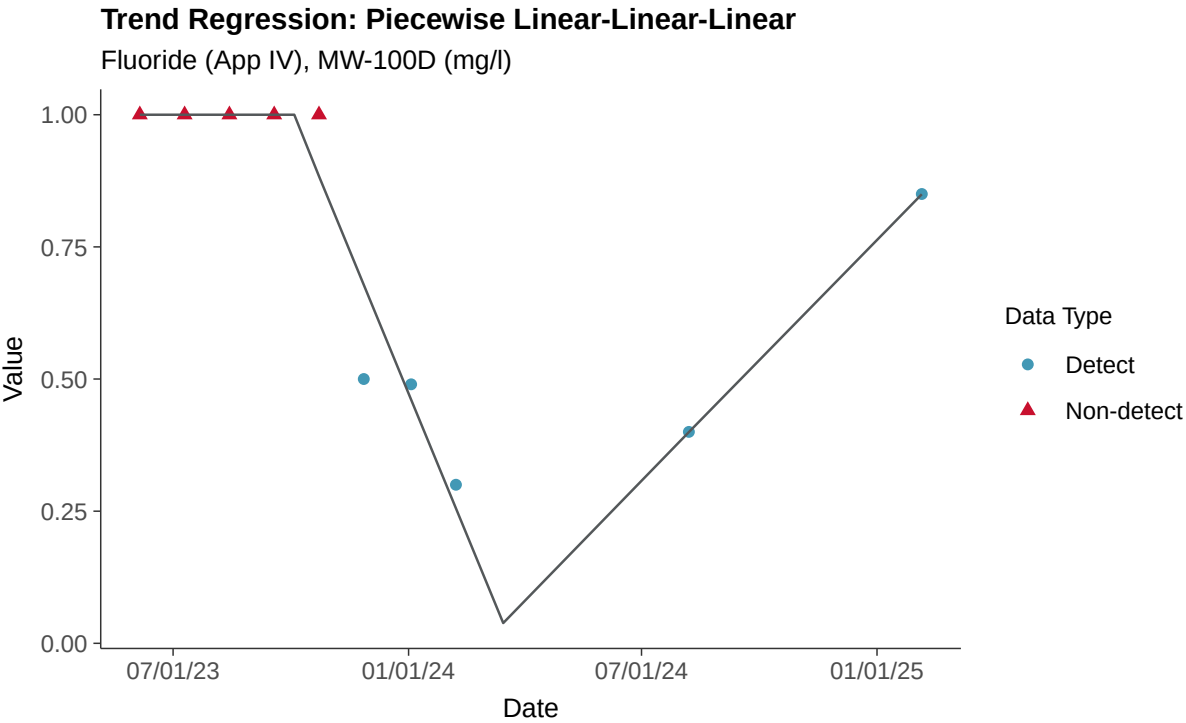
Fluoride (App IV), MW-100D (mg/l)



Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-100D (mg/l)

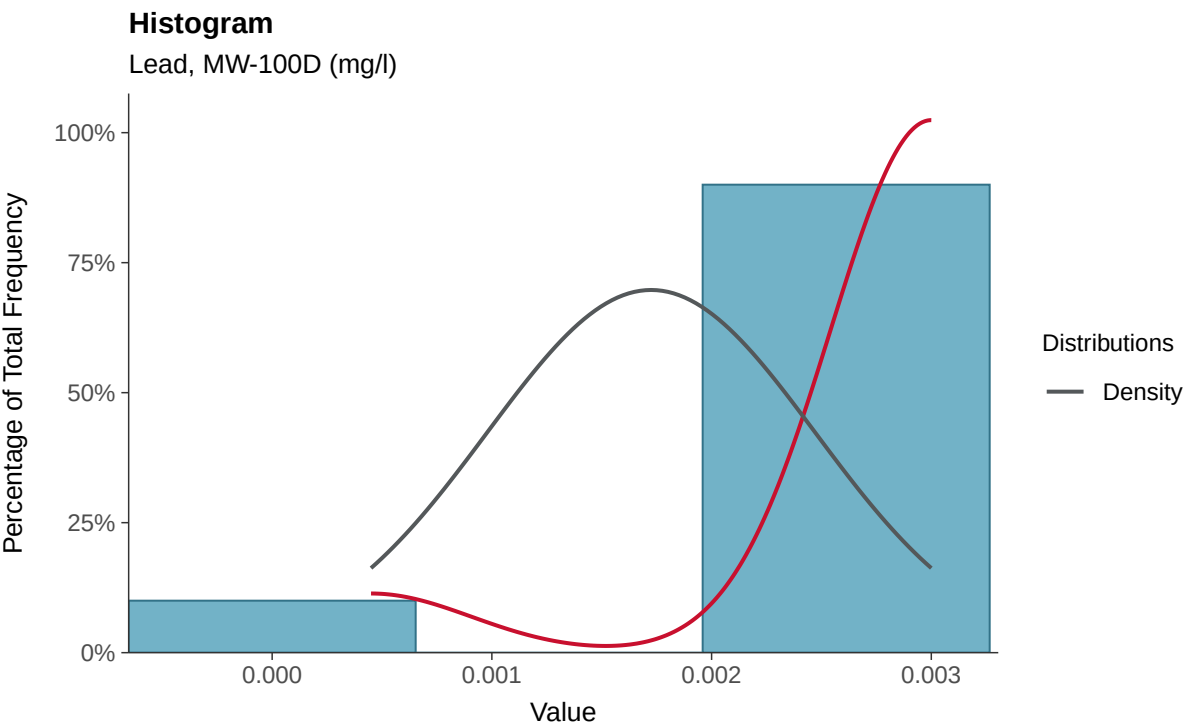
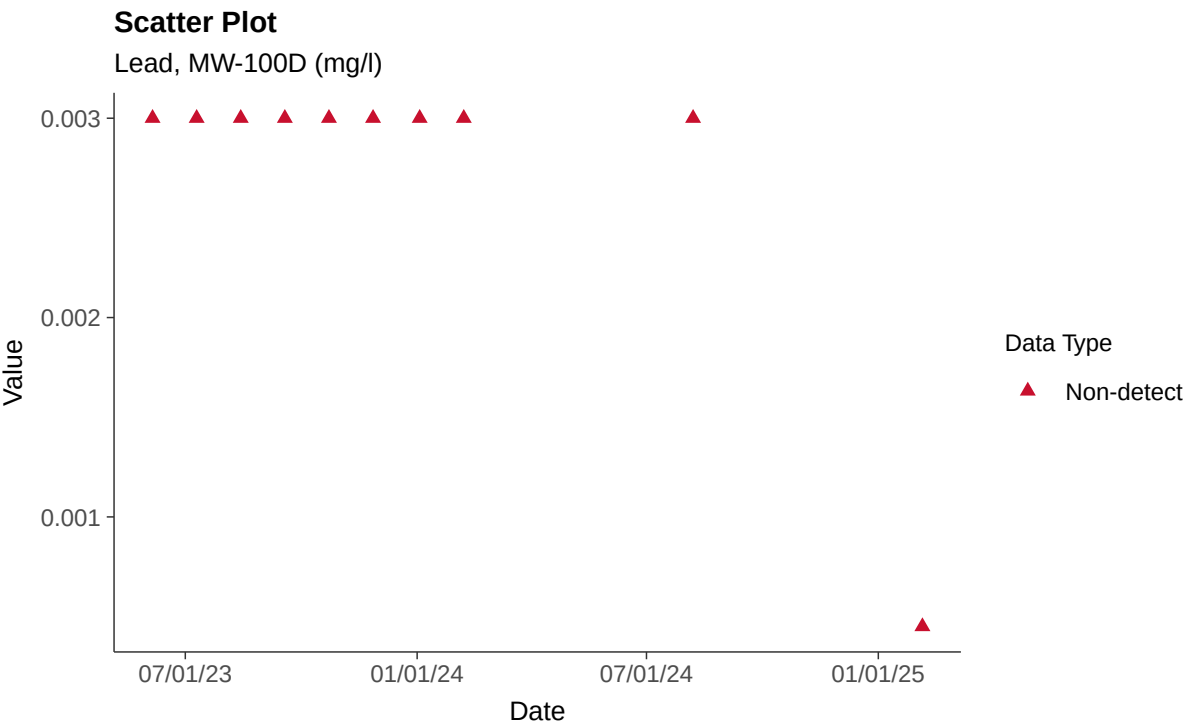


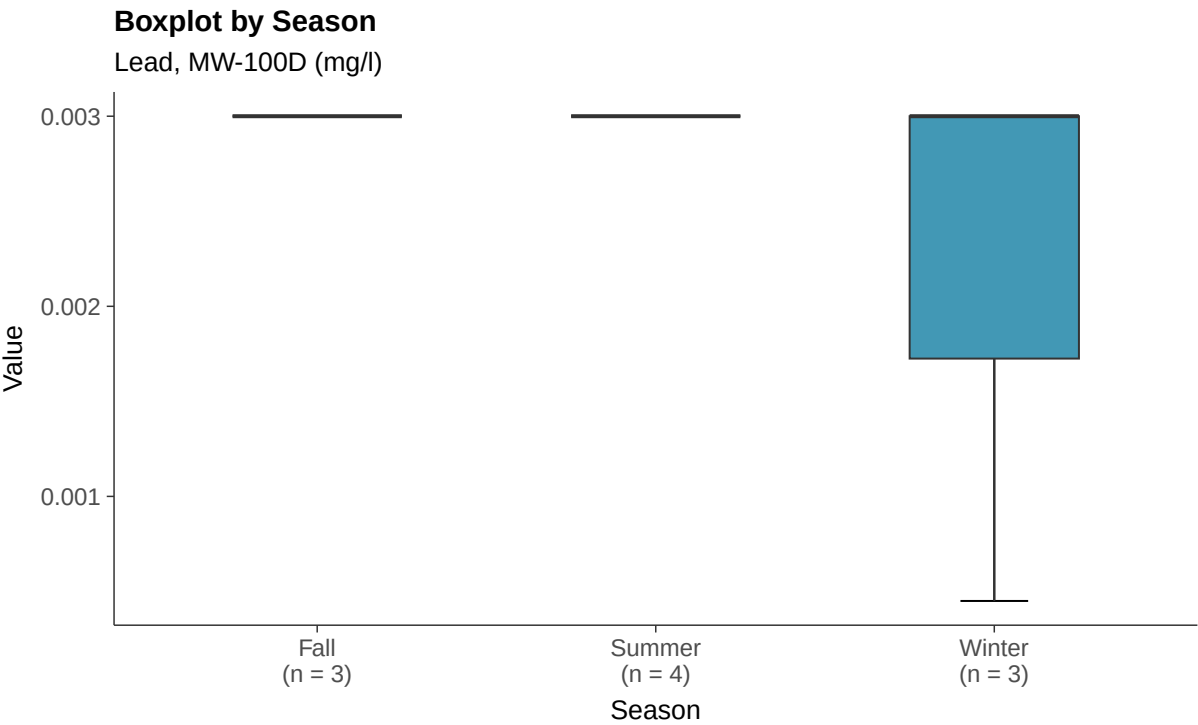
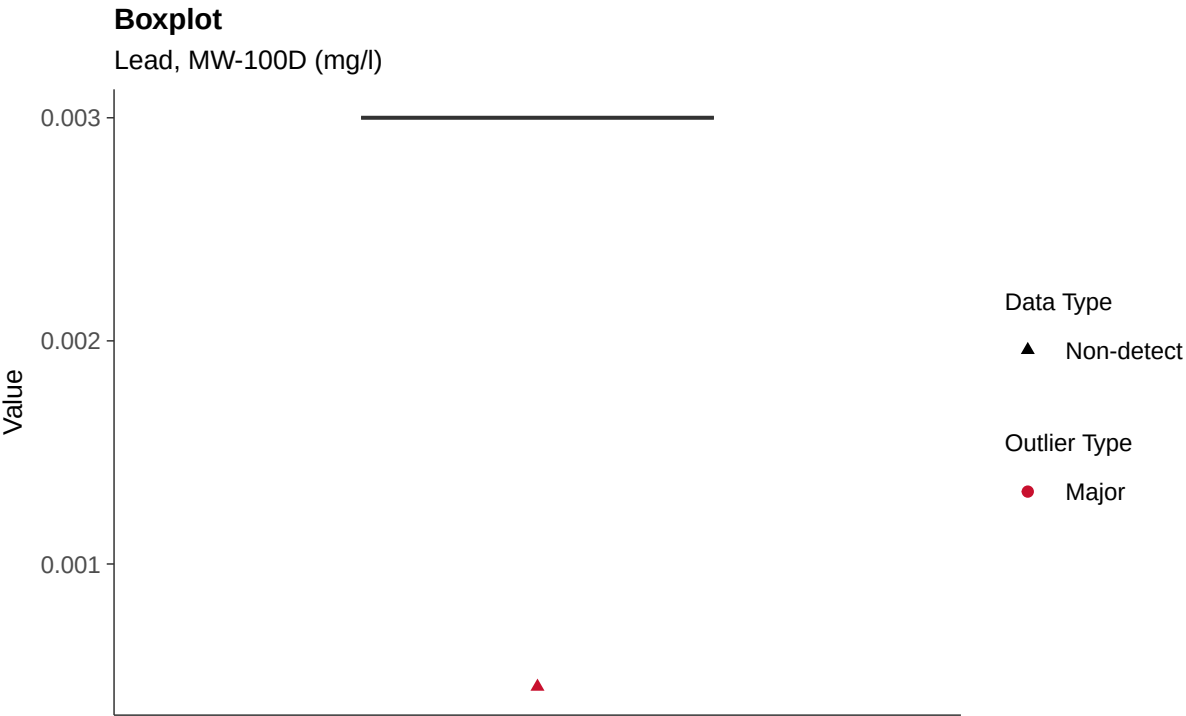




Appendix IV: Lead, MW-100D

ID: 19_3_115

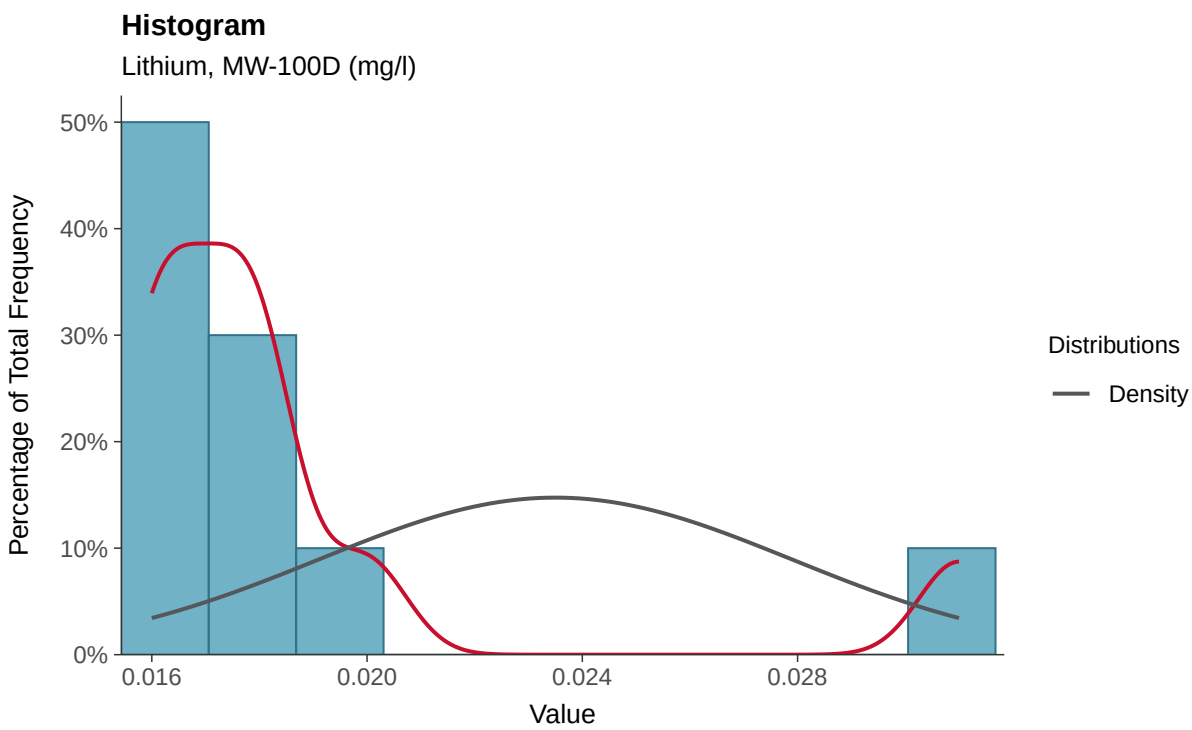
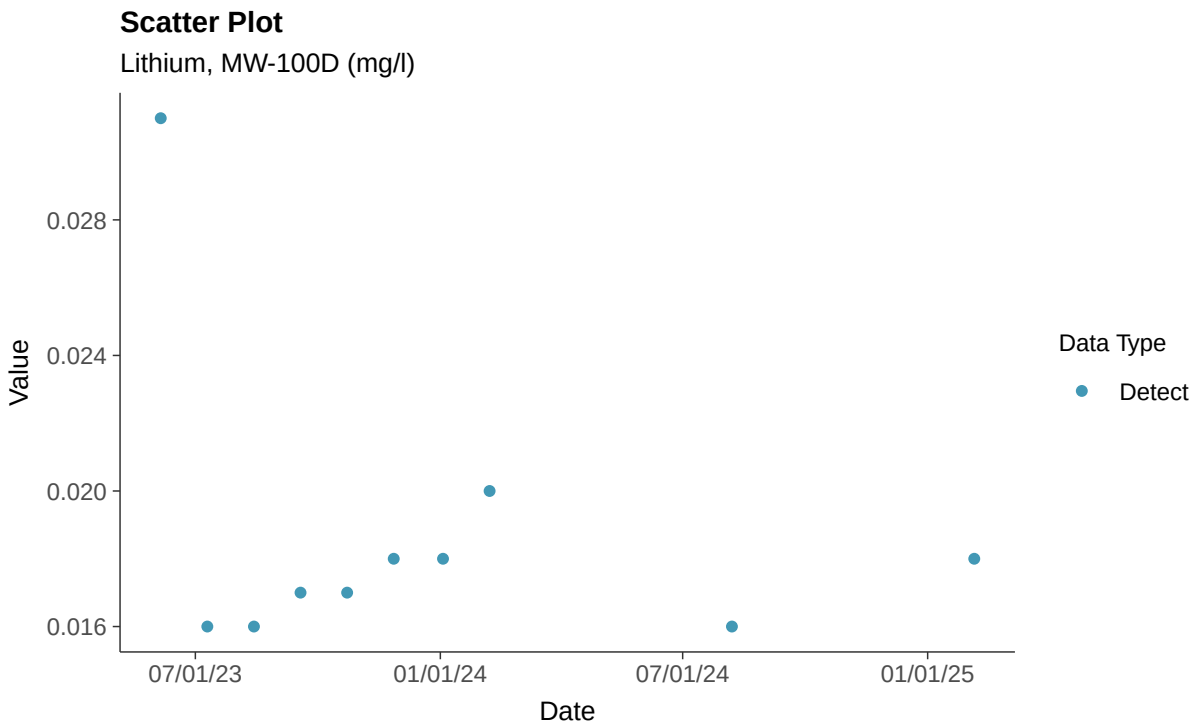


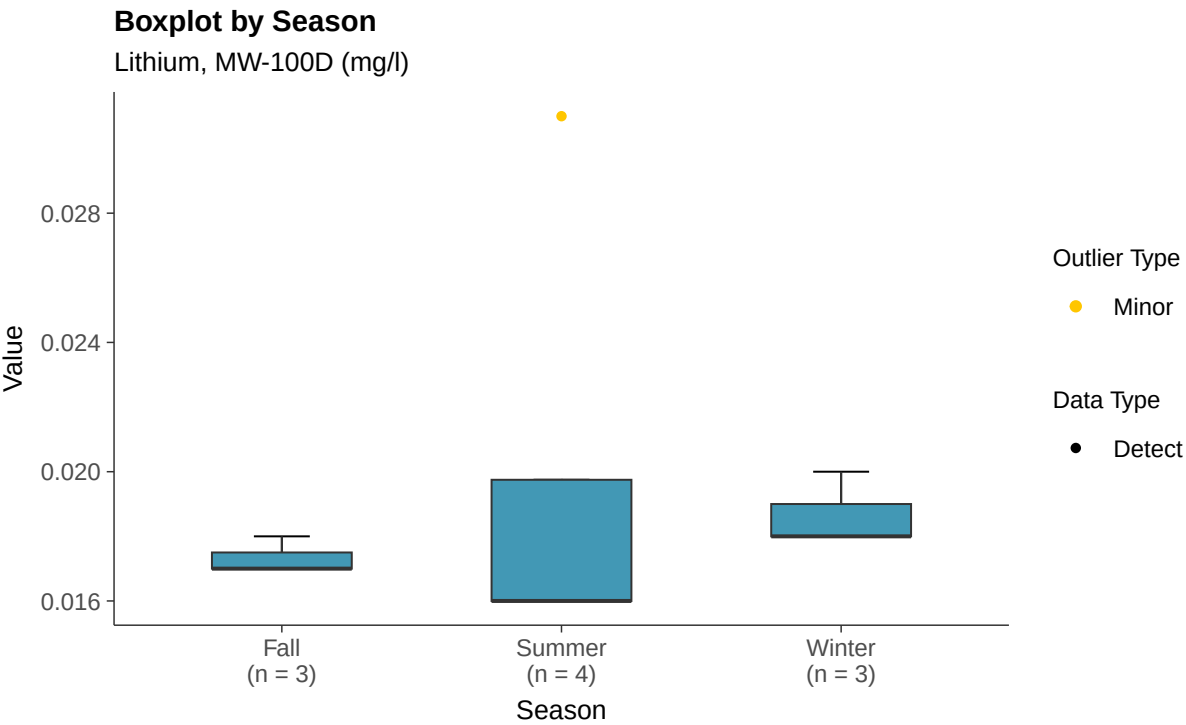
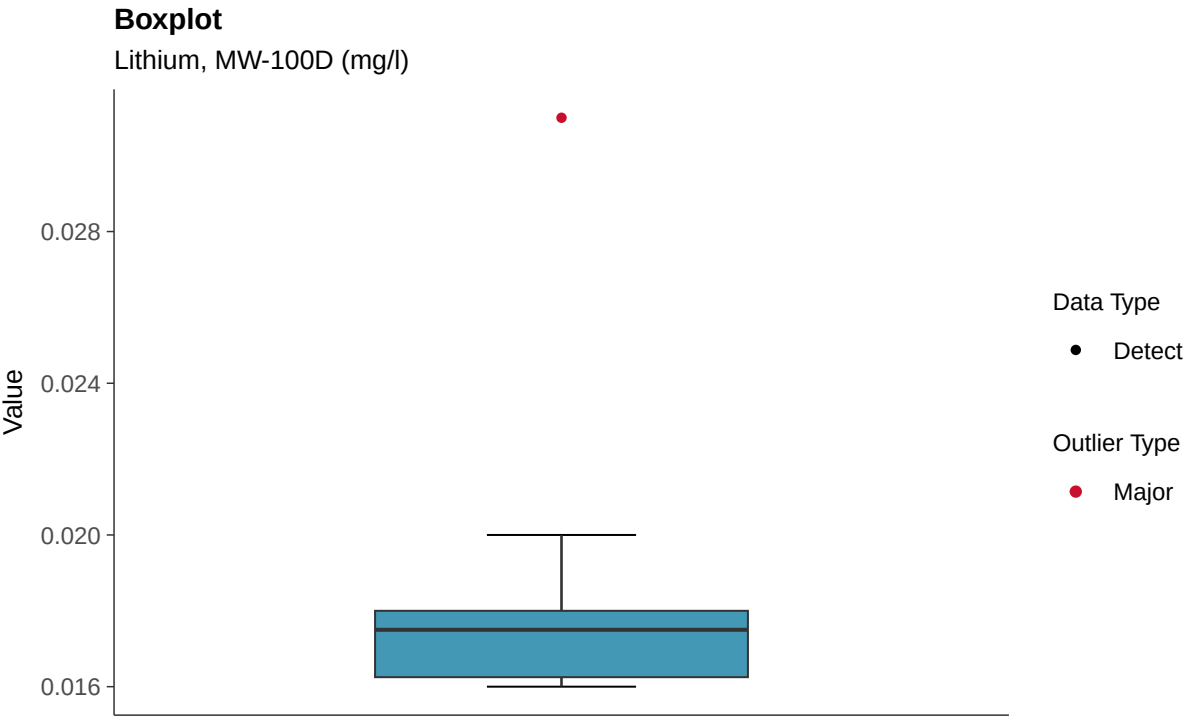


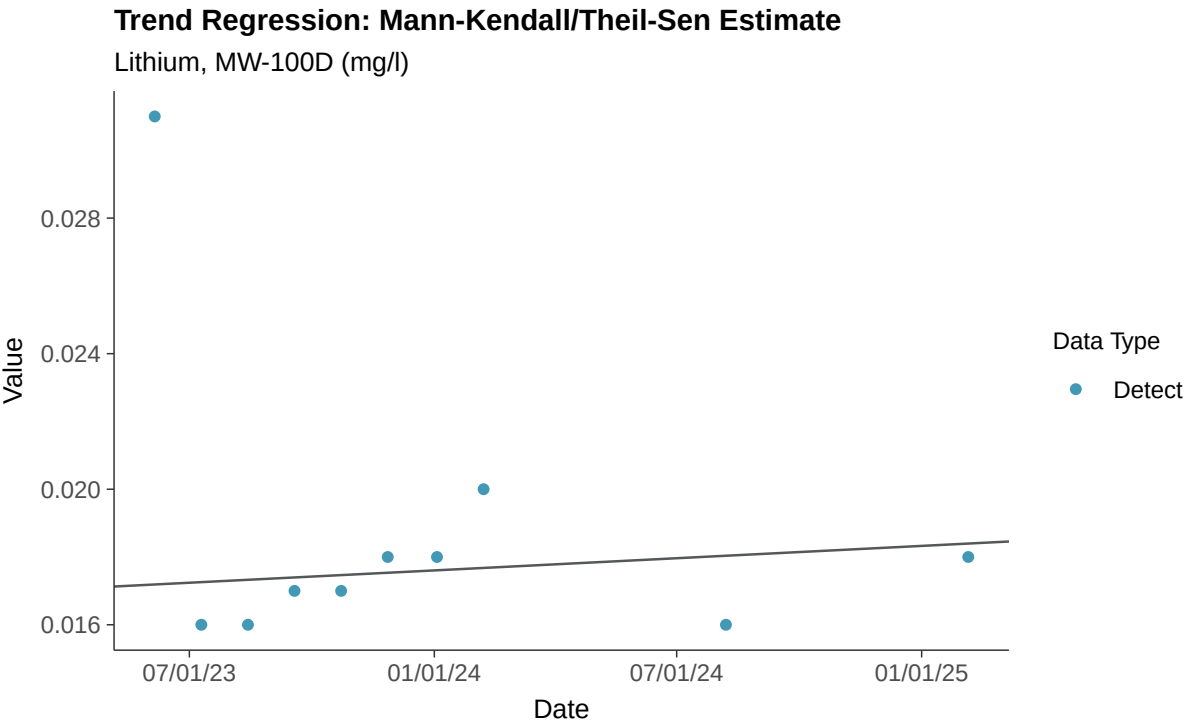
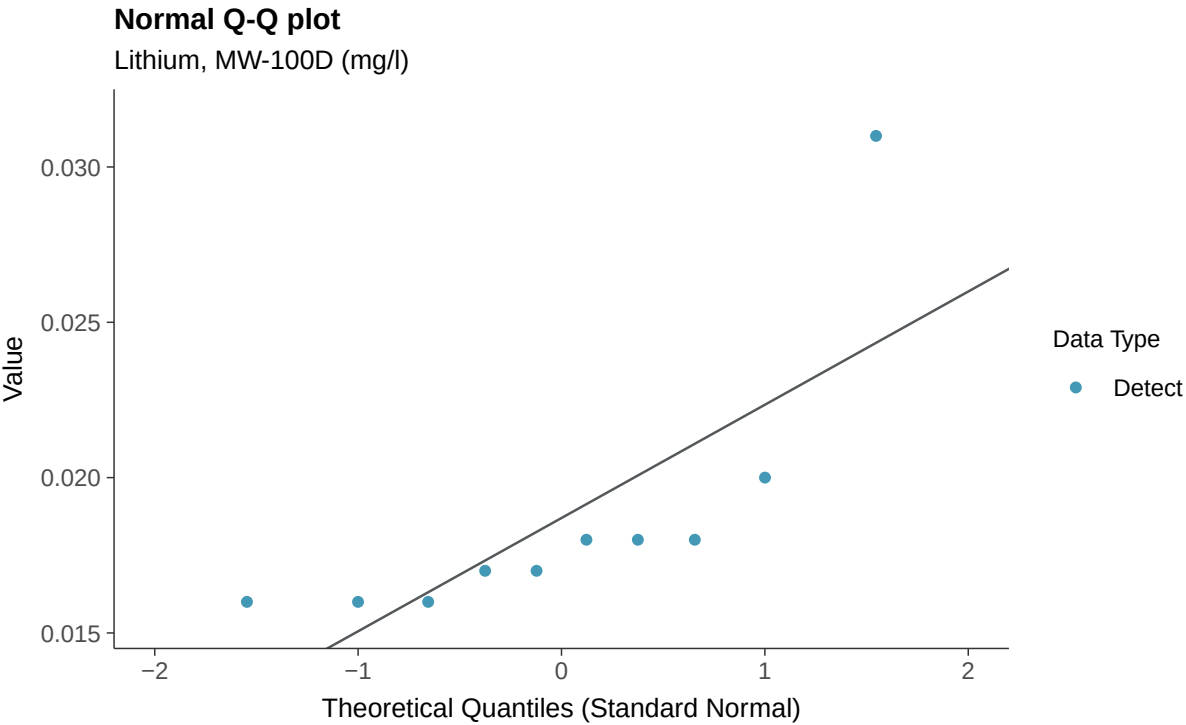


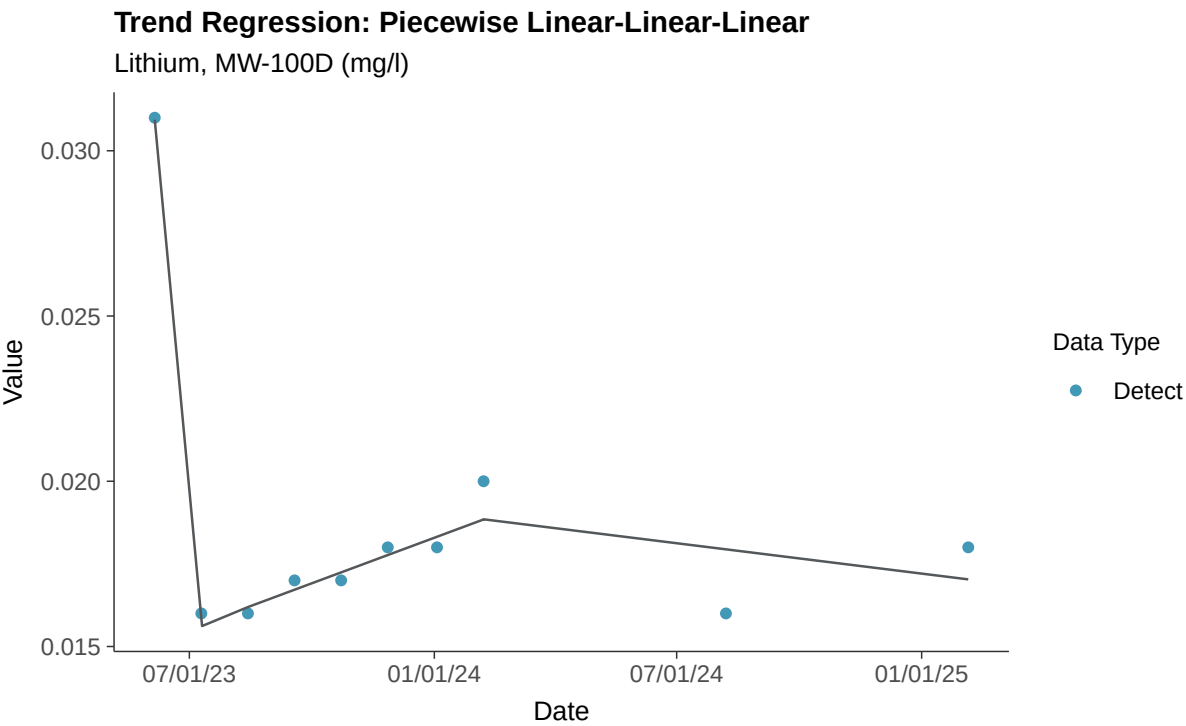
Appendix IV: Lithium, MW-100D

ID: 19_3_116





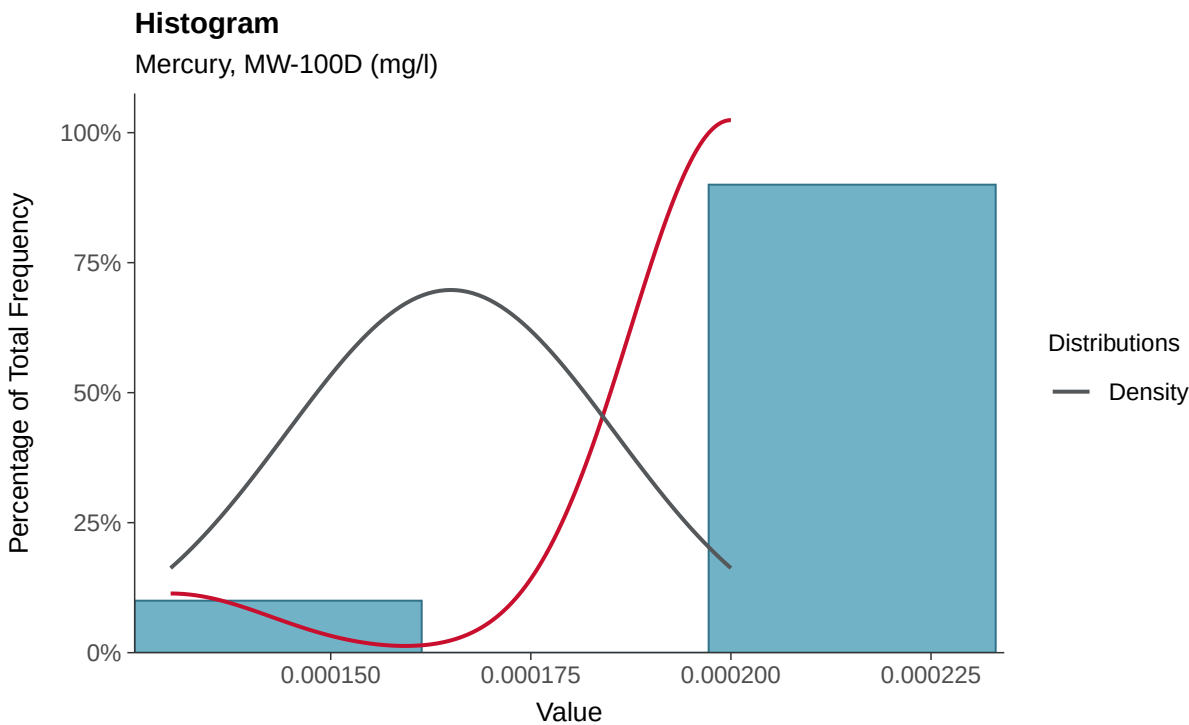
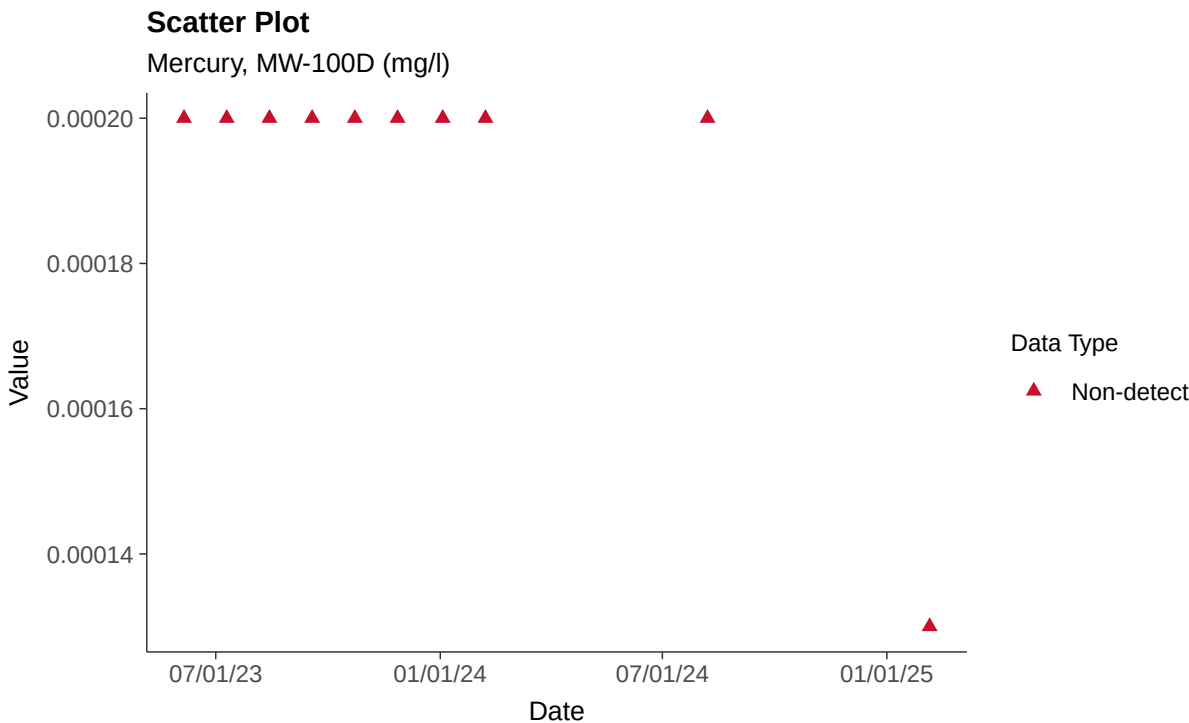


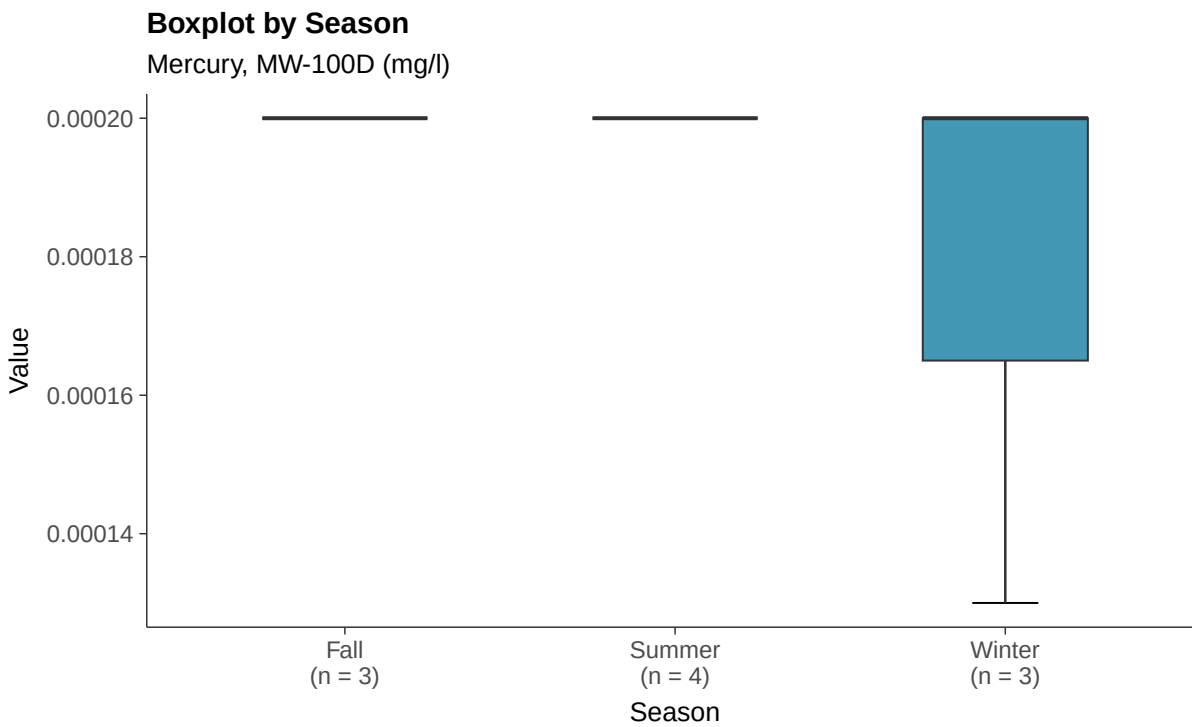
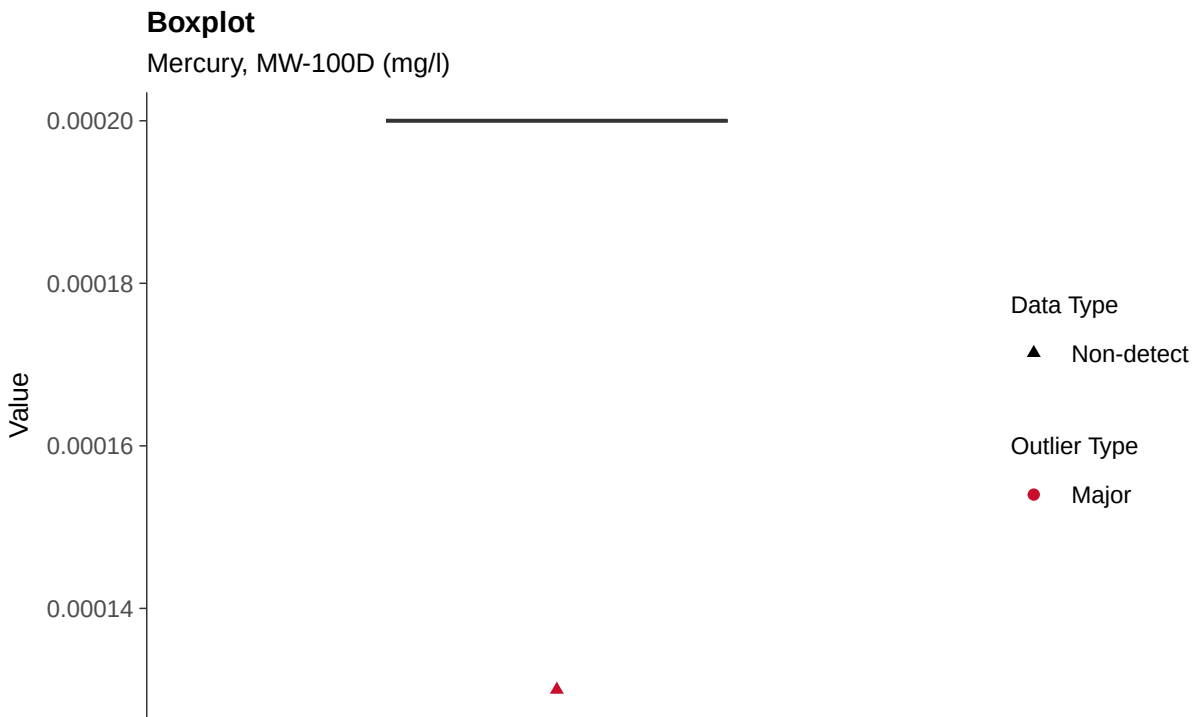




Appendix IV: Mercury, MW-100D

ID: 19_3_117

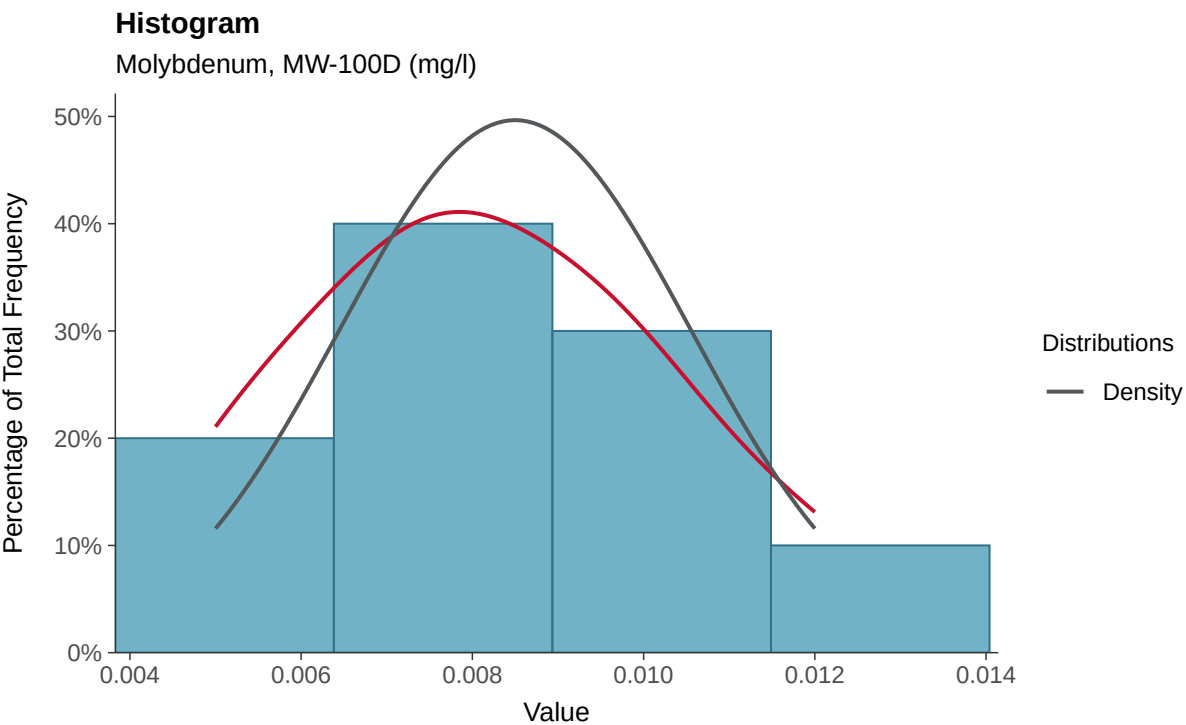
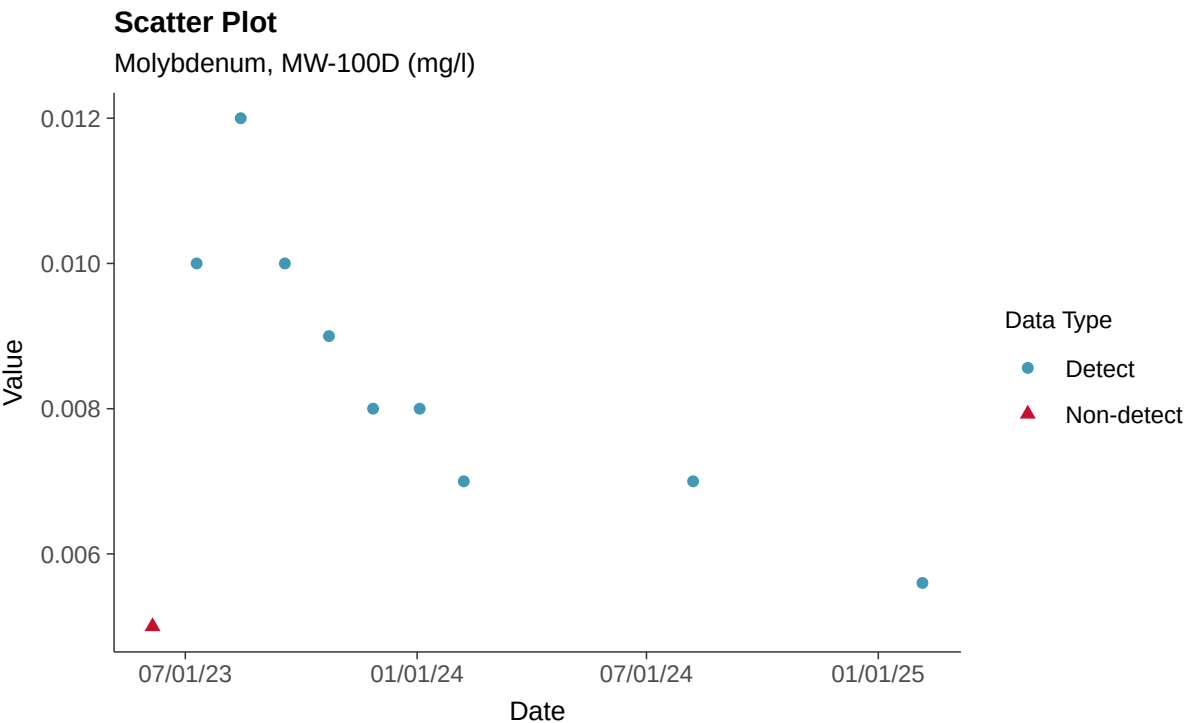


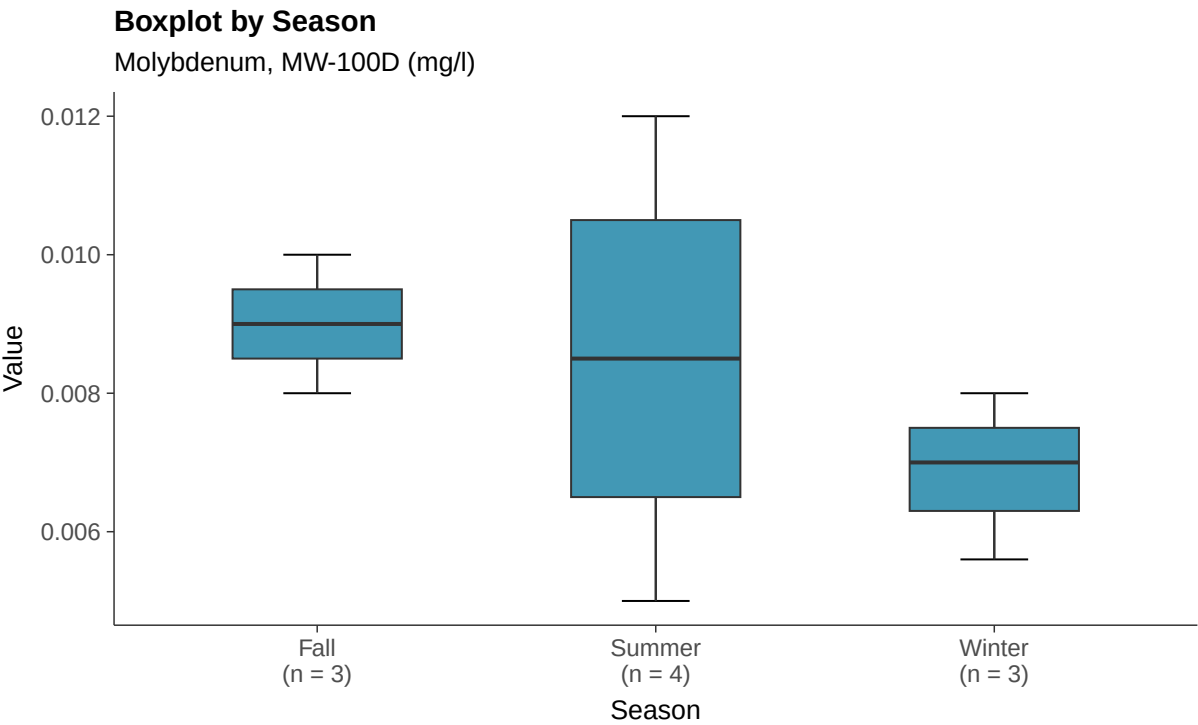
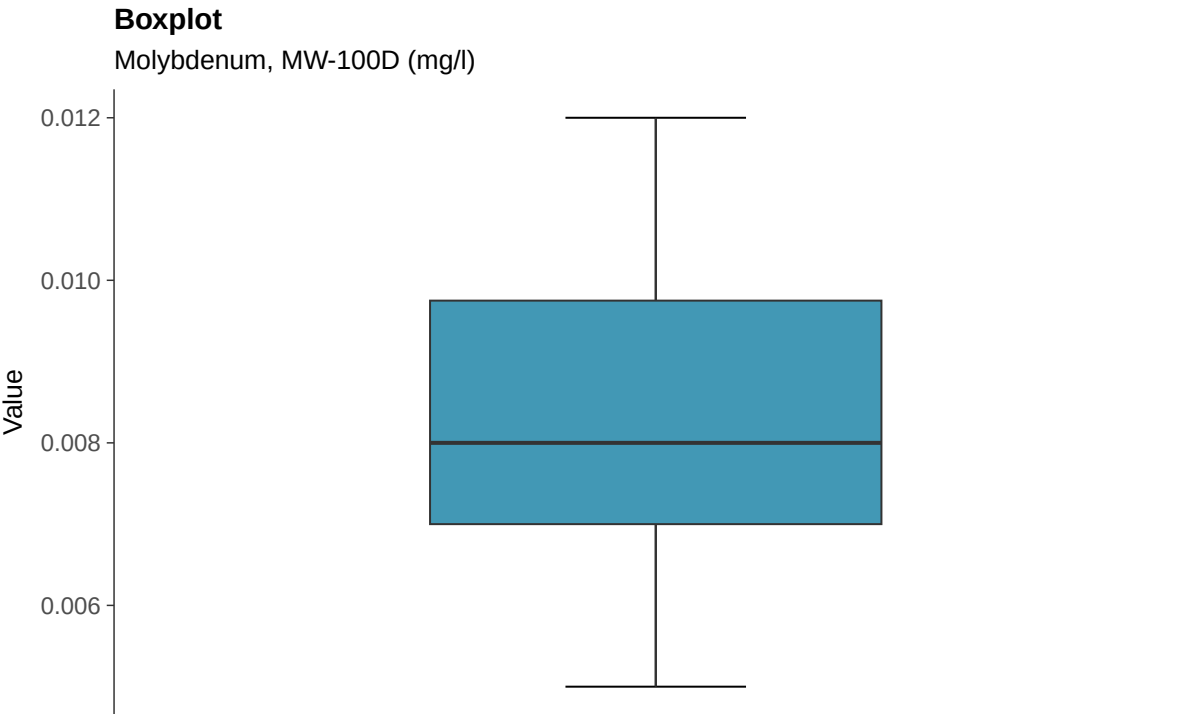


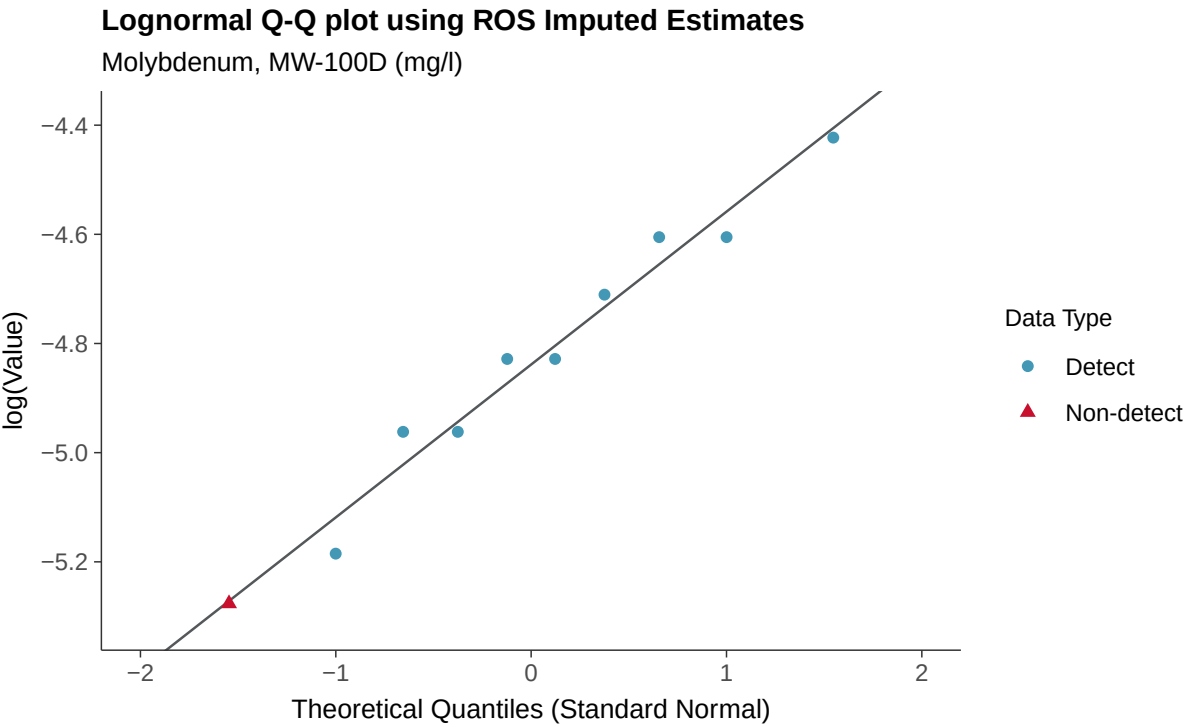
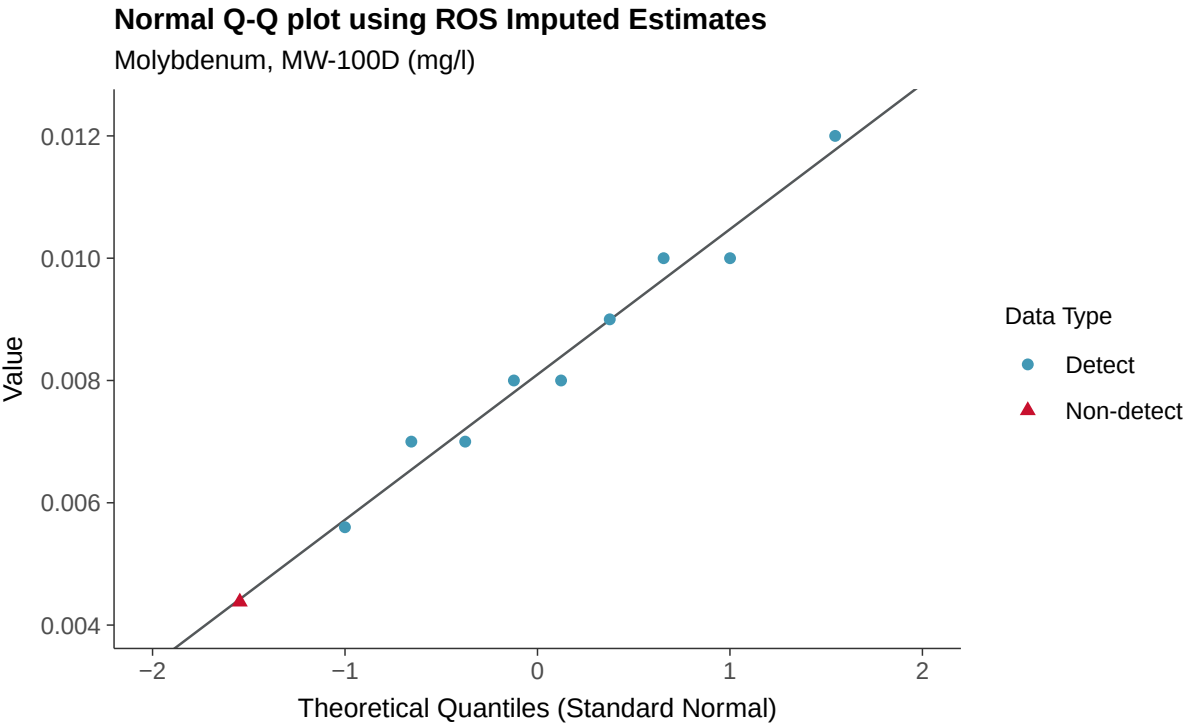


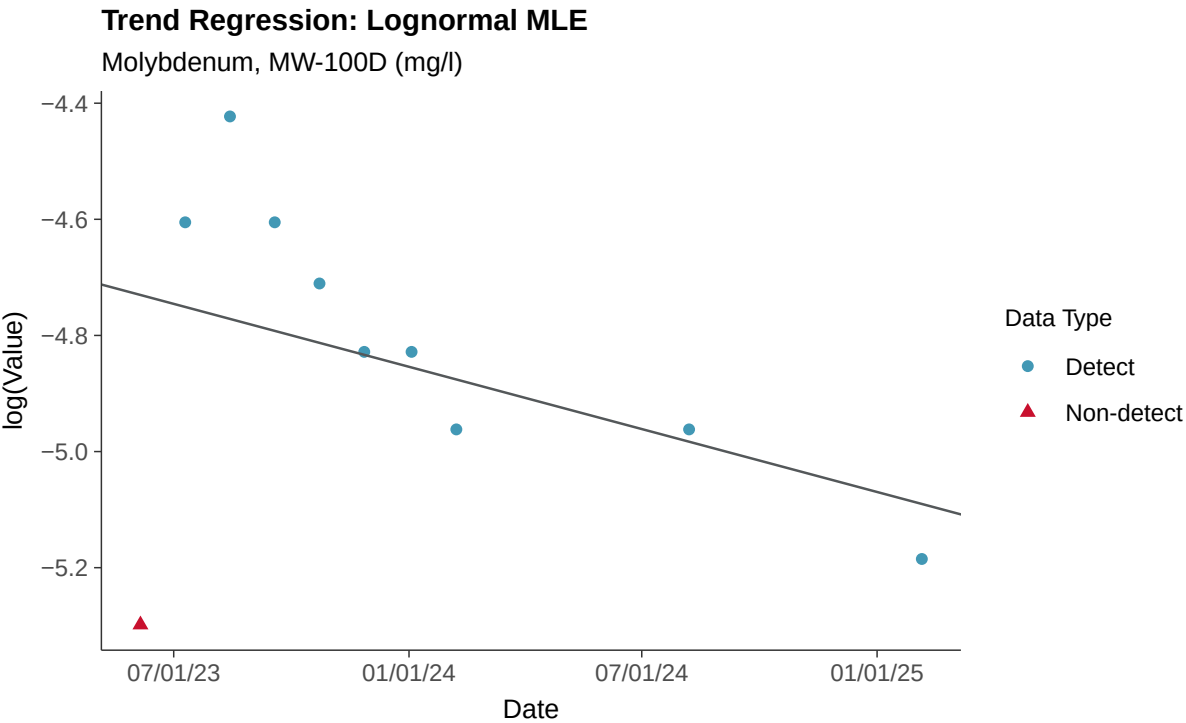
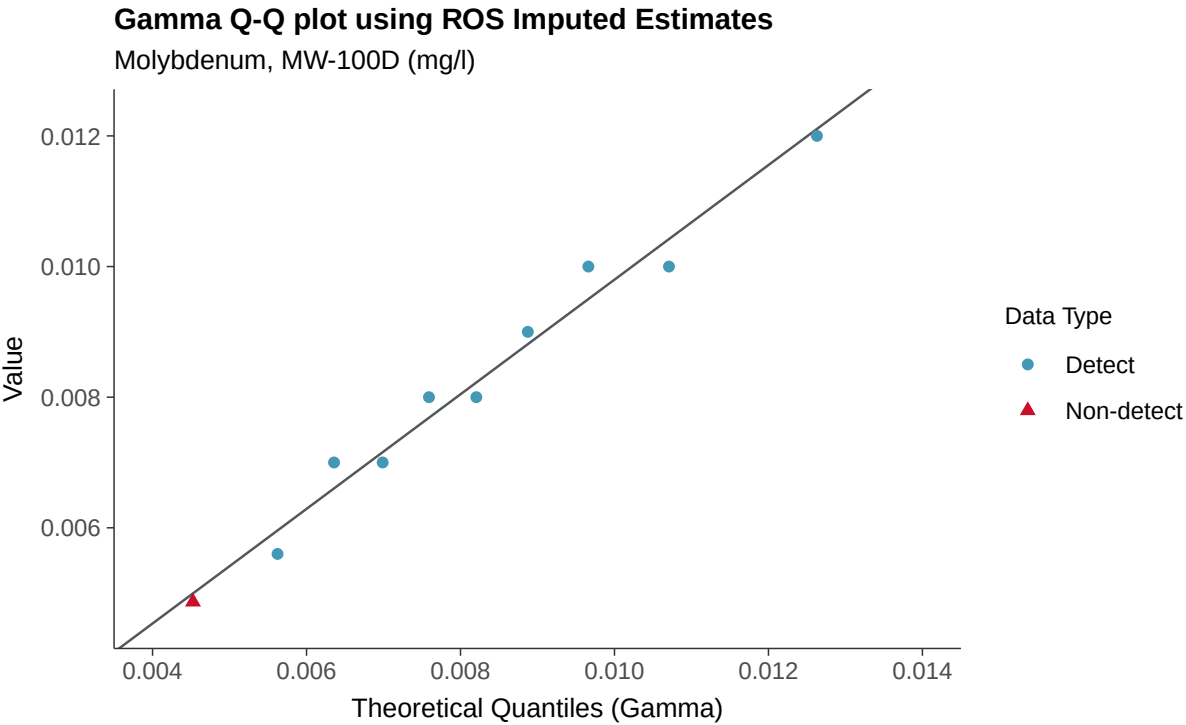
Appendix IV: Molybdenum, MW-100D

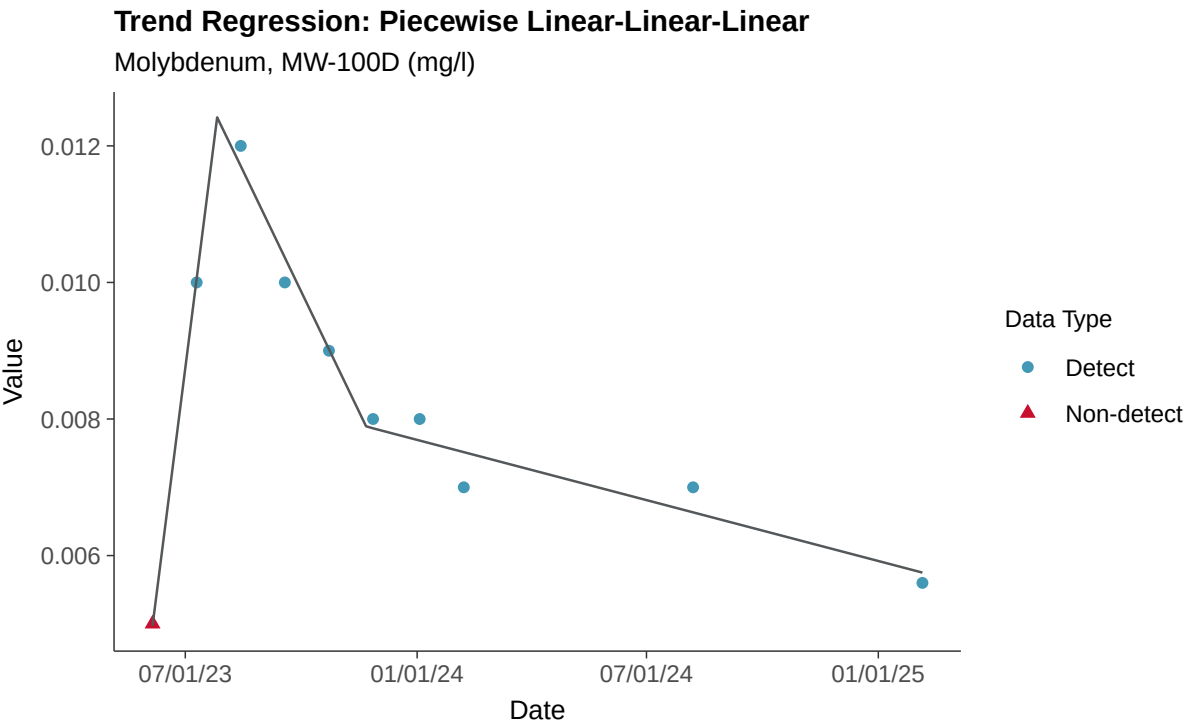
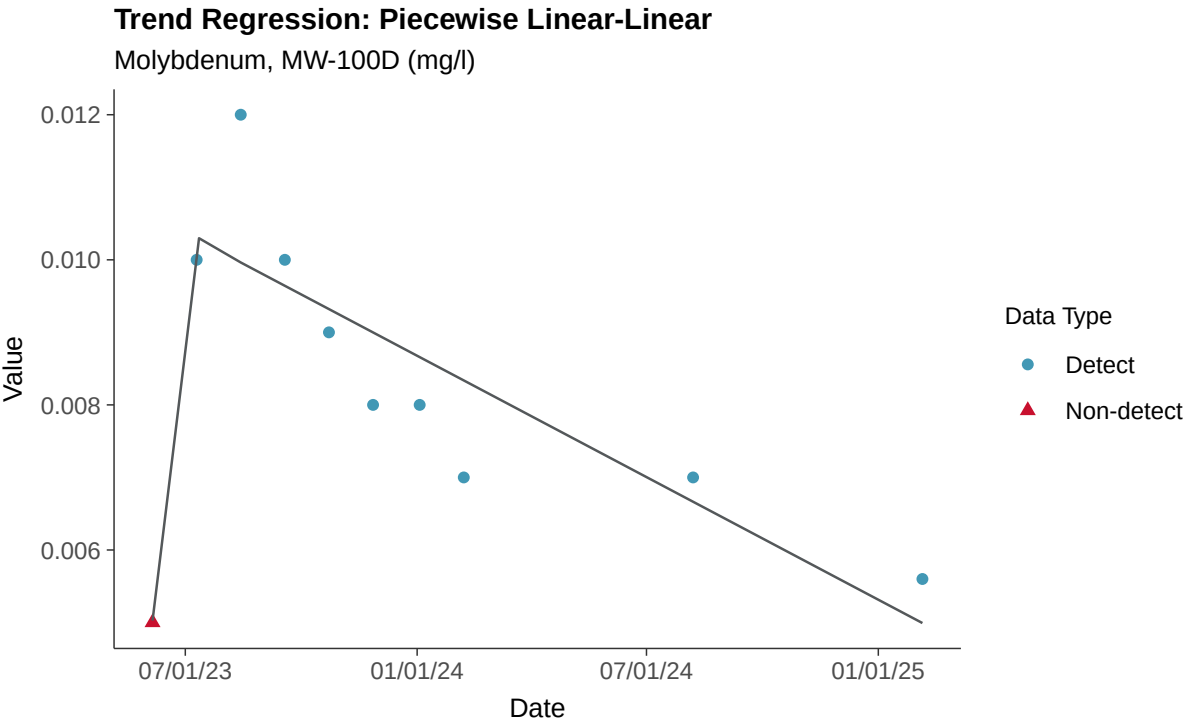
ID: 19_3_118







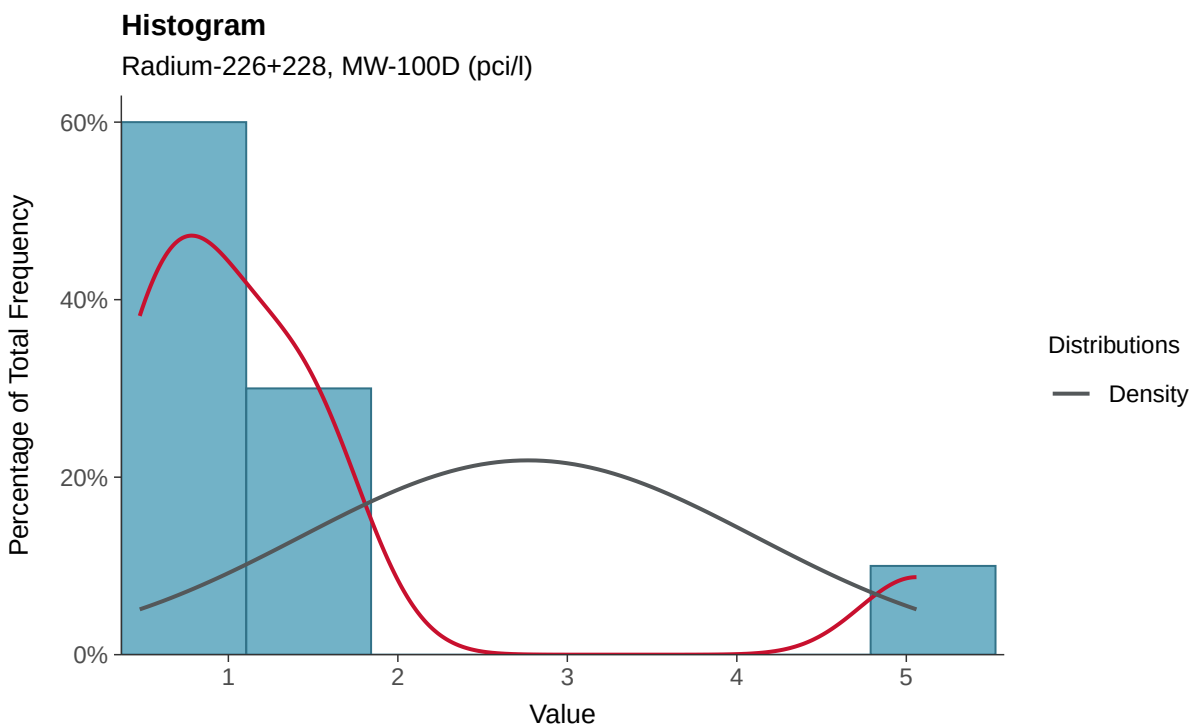
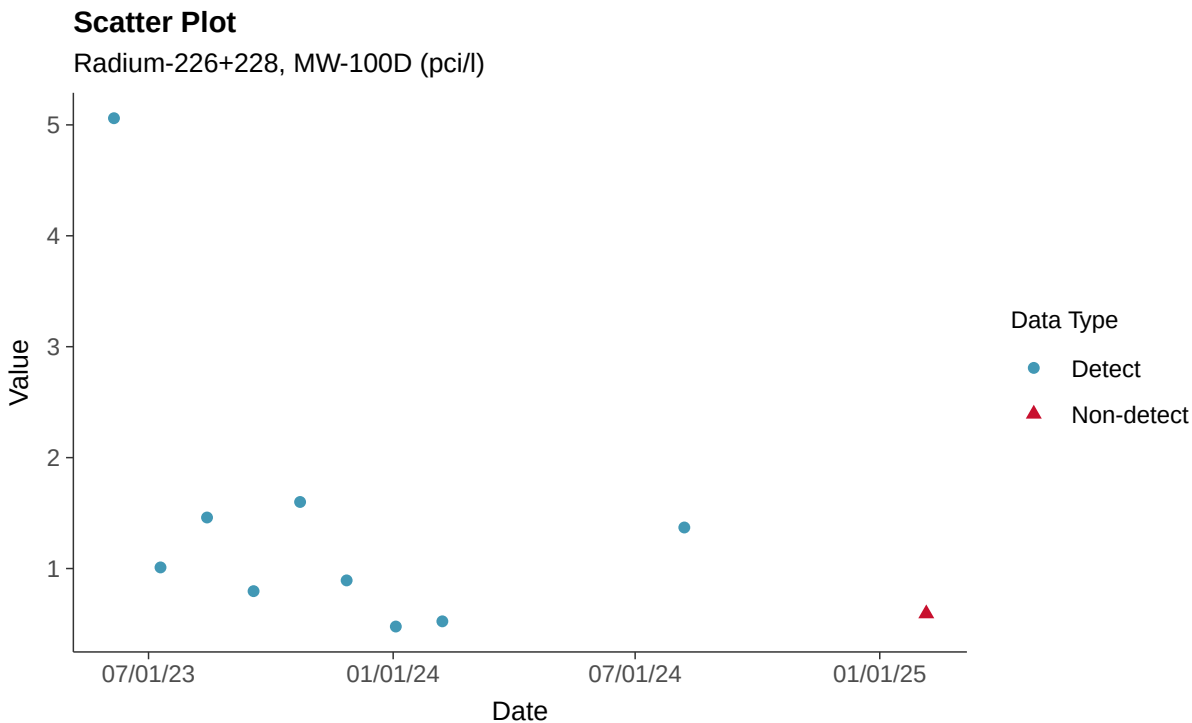






Appendix IV: Radium-226+228, MW-100D

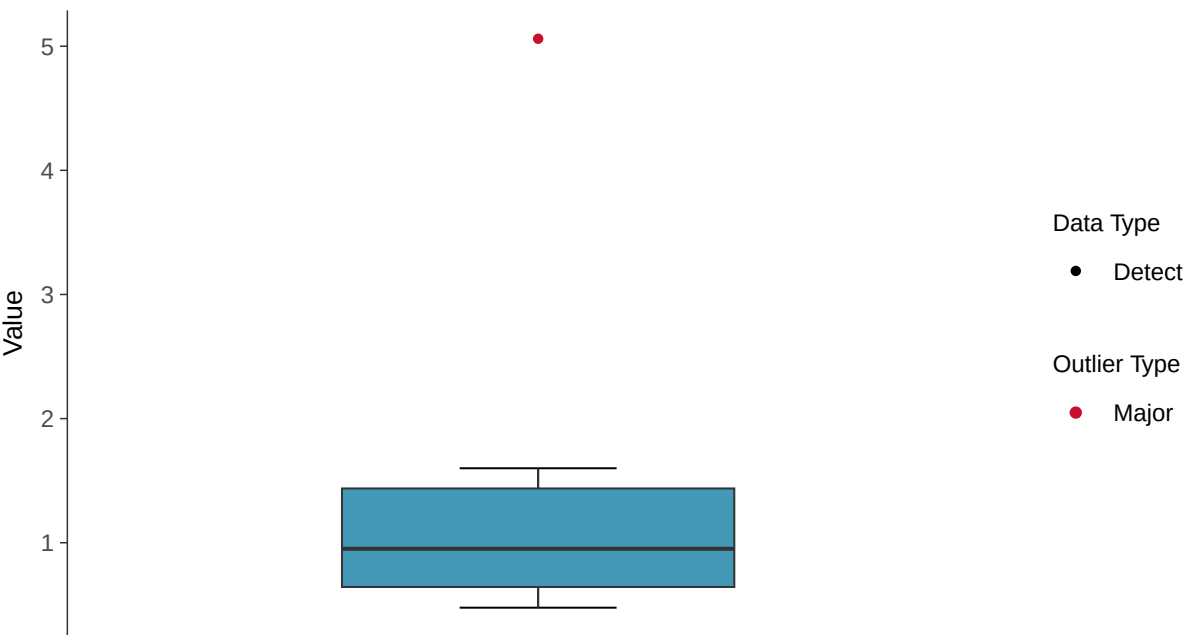
ID: 19_3_121





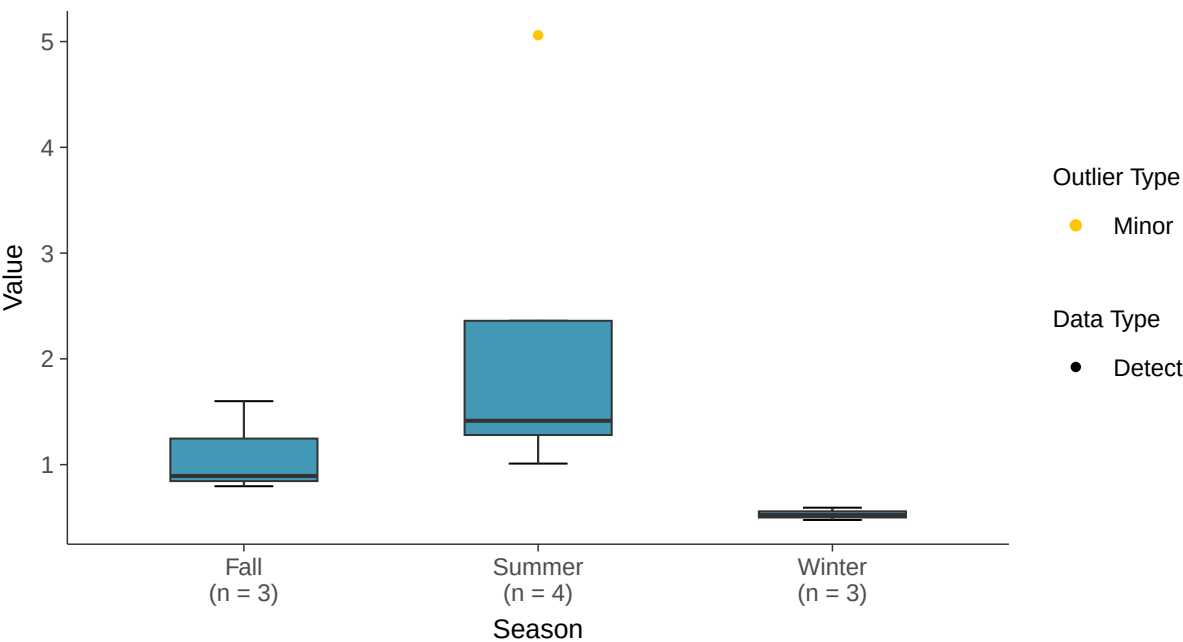
Boxplot

Radium-226+228, MW-100D (pci/l)



Boxplot by Season

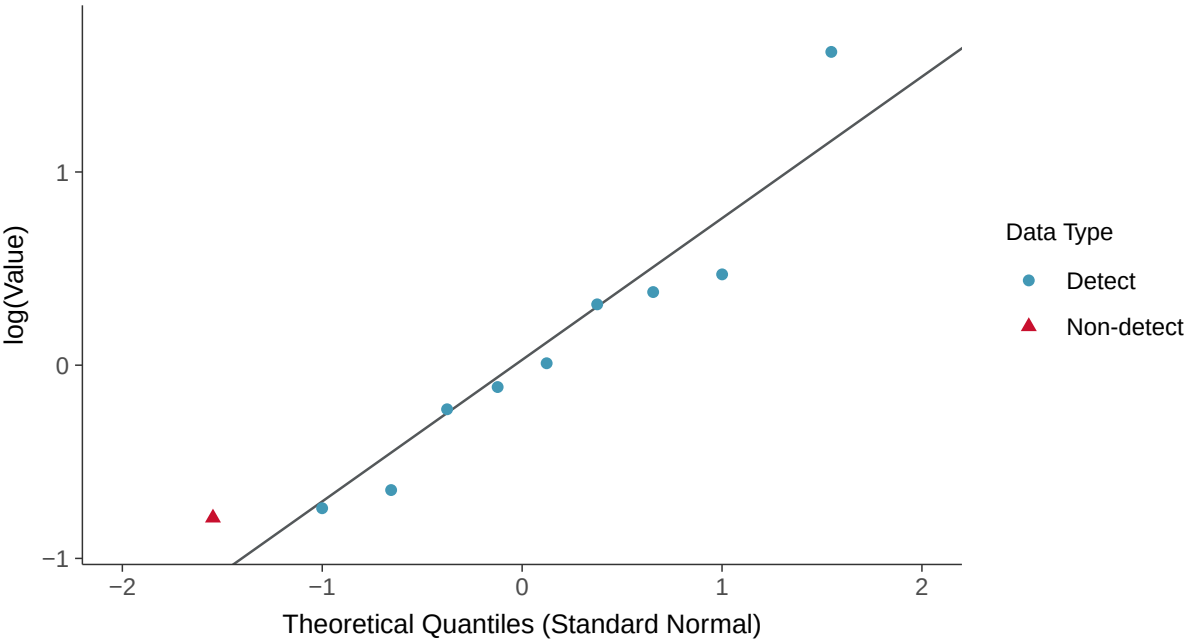
Radium-226+228, MW-100D (pci/l)





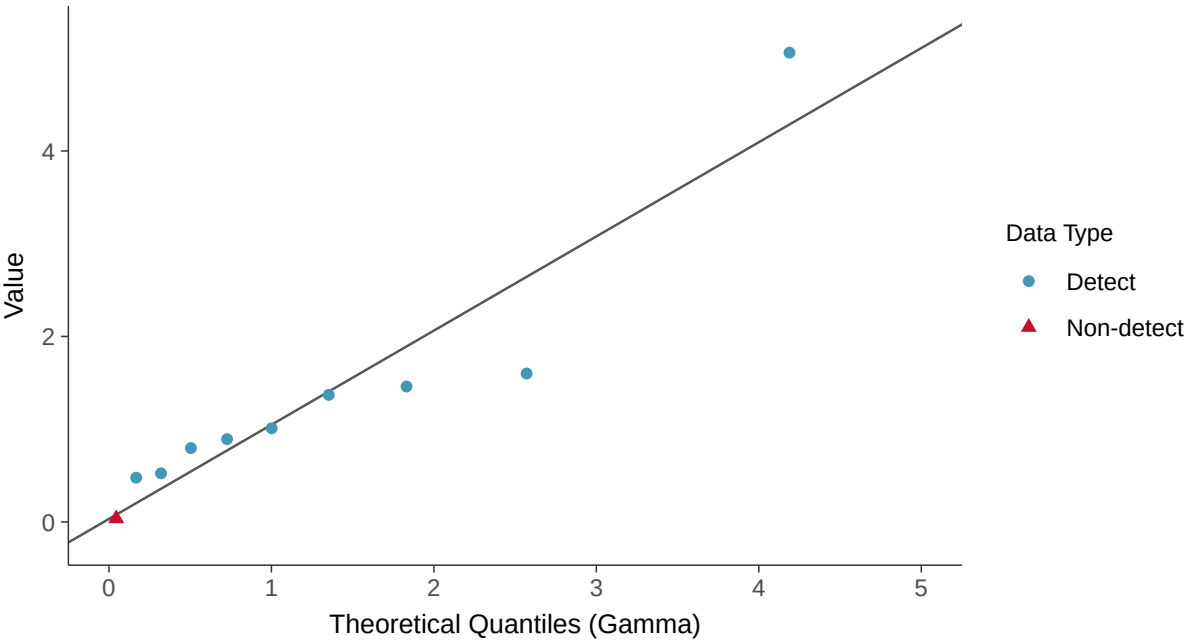
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-100D (pci/l)



Gamma Q-Q plot using ROS Imputed Estimates

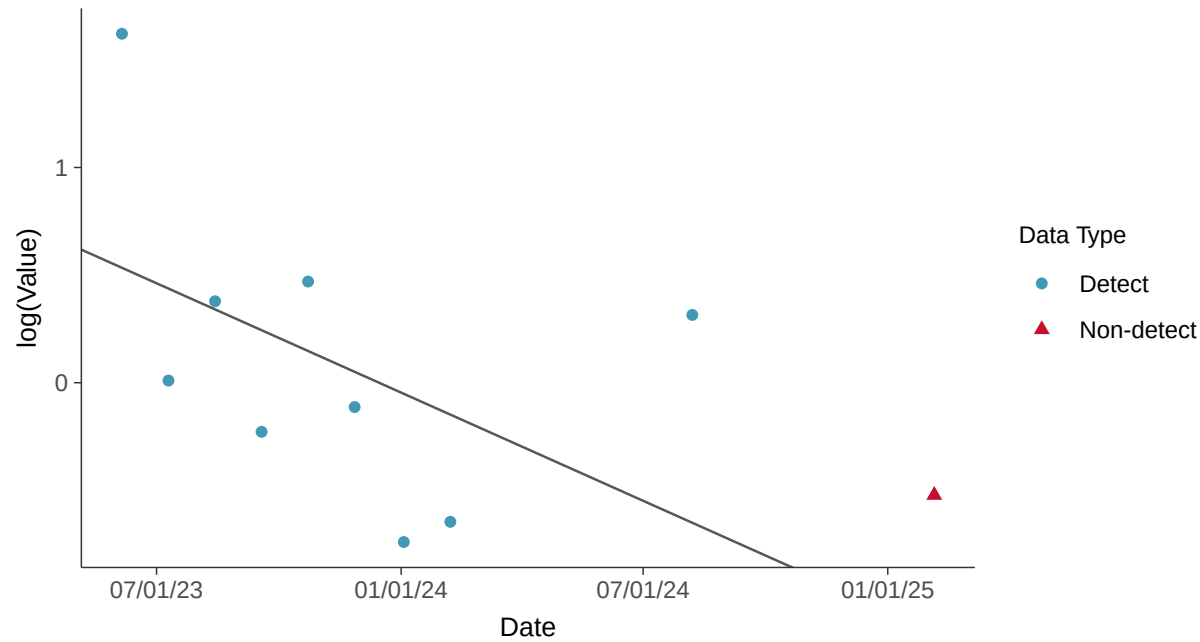
Radium-226+228, MW-100D (pci/l)





Trend Regression: Lognormal MLE

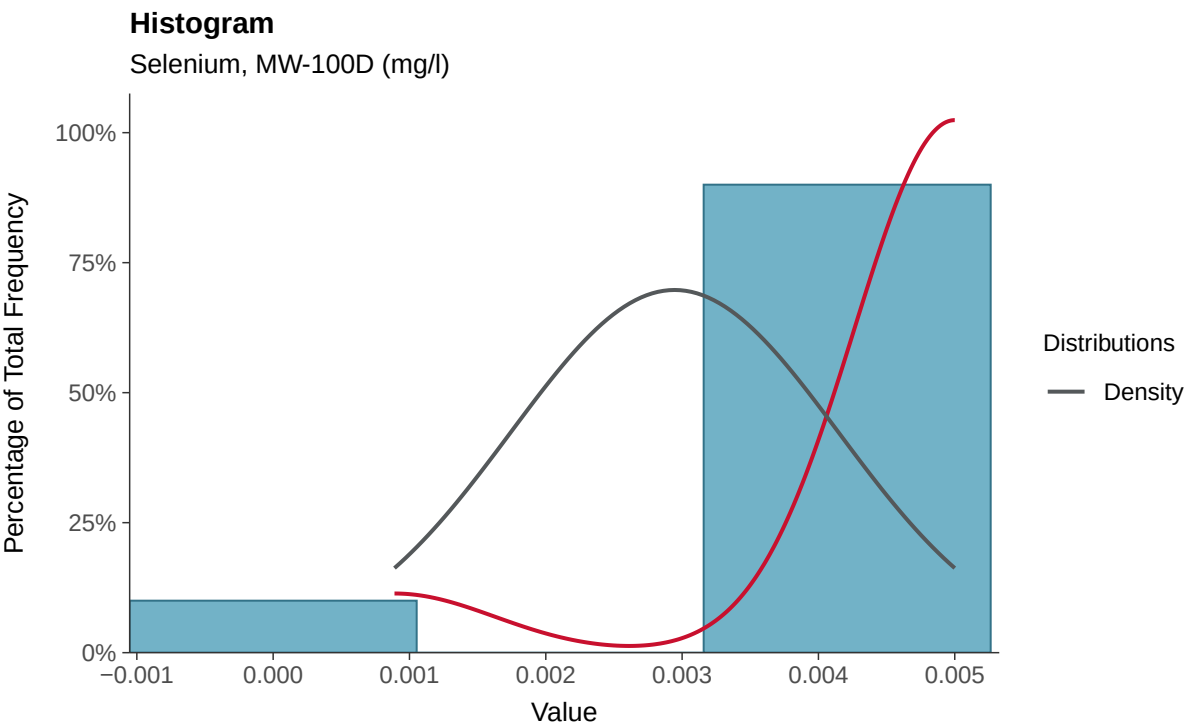
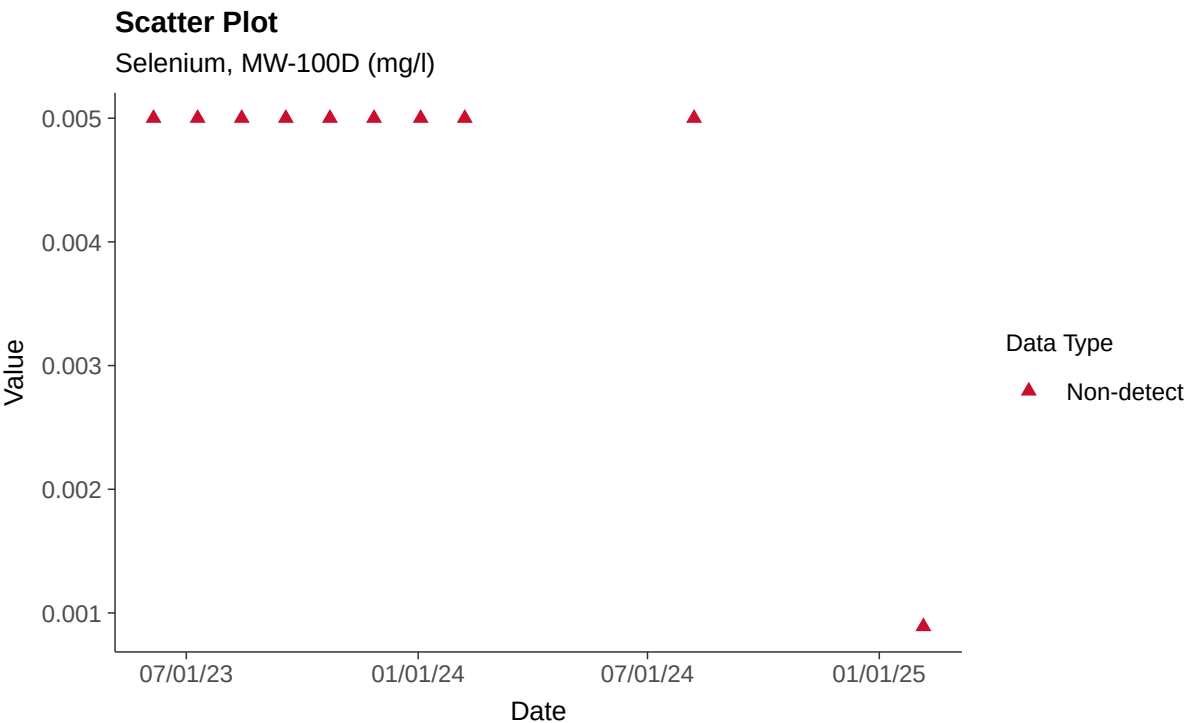
Radium-226+228, MW-100D (pci/l)

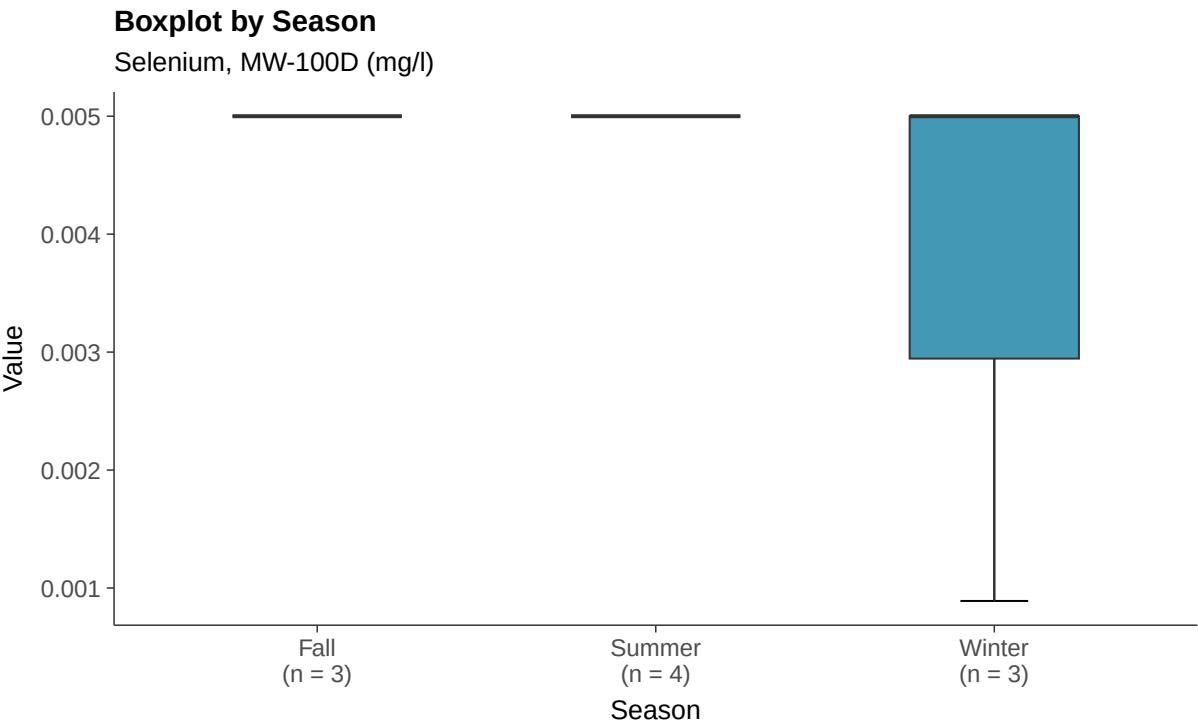
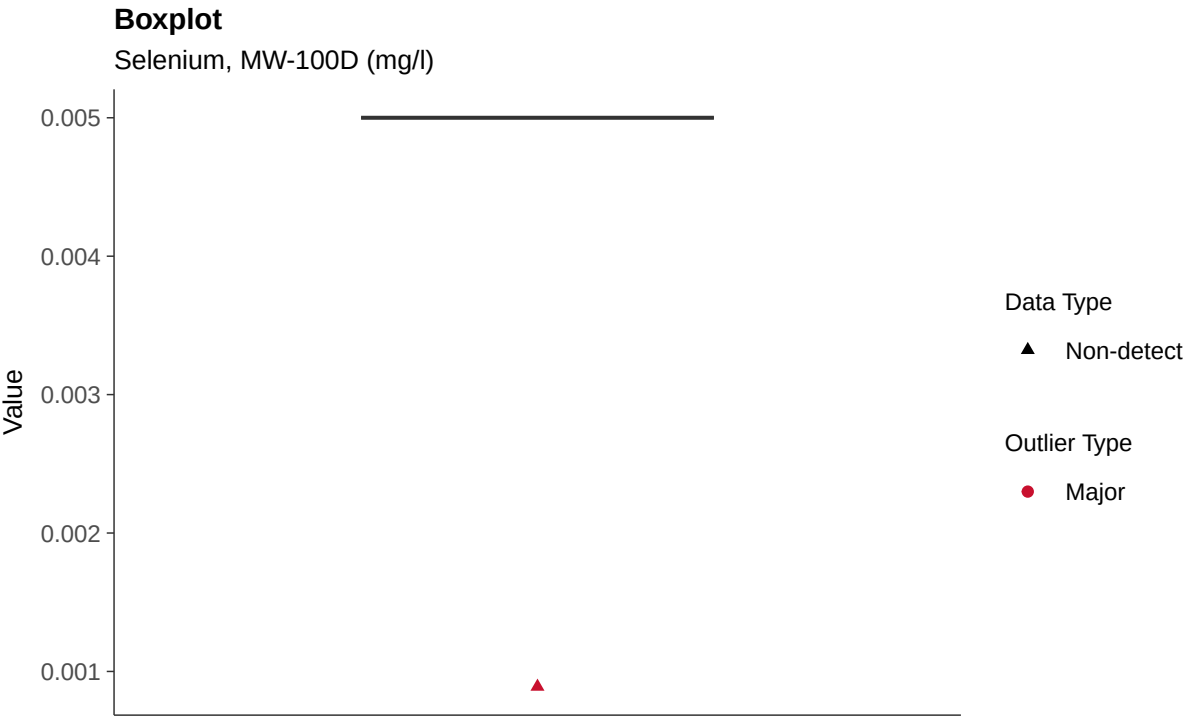




Appendix IV: Selenium, MW-100D

ID: 19_3_122

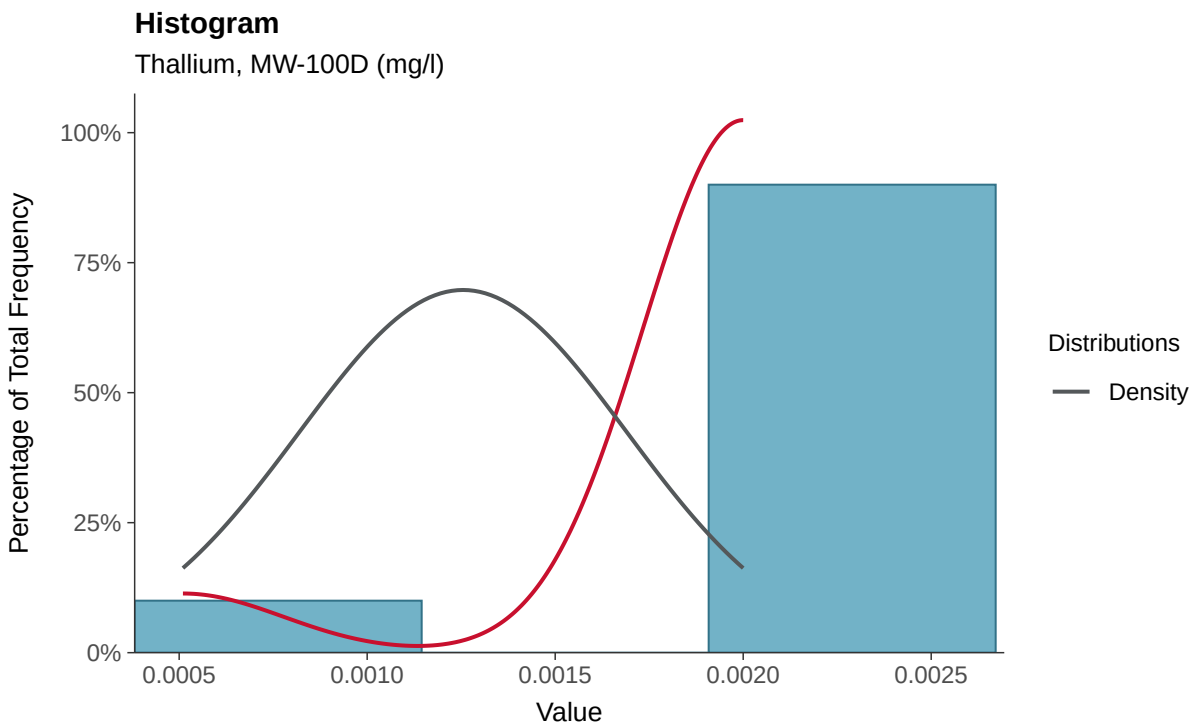
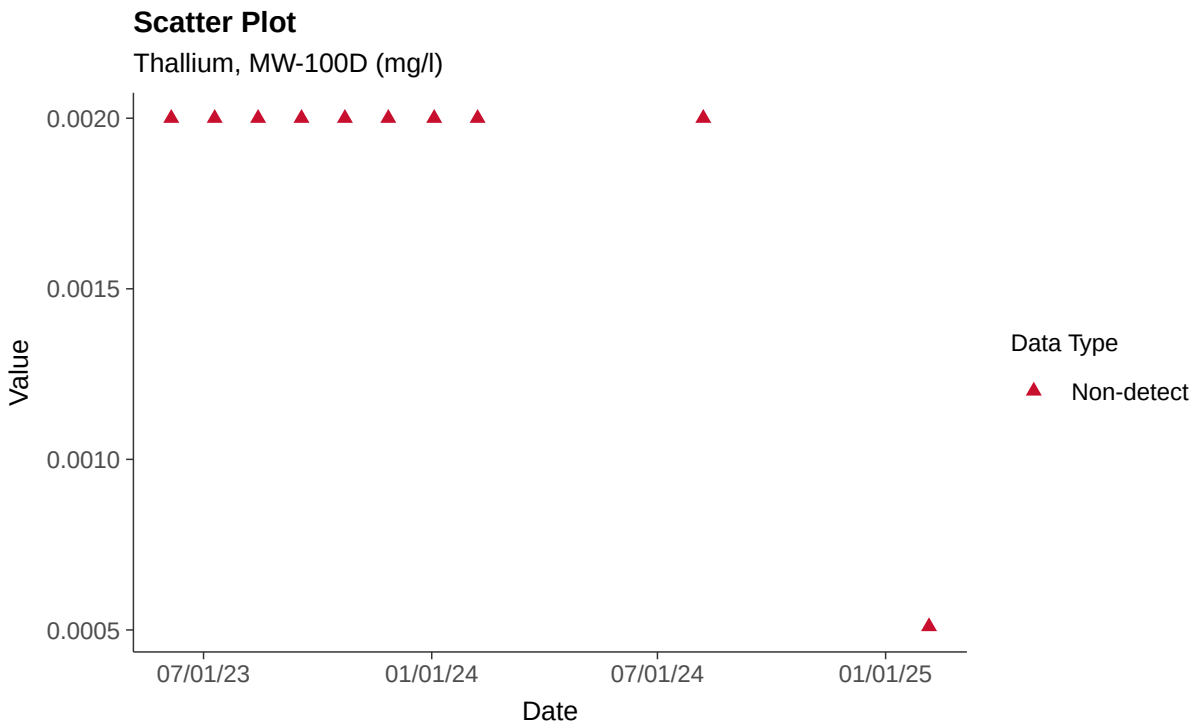


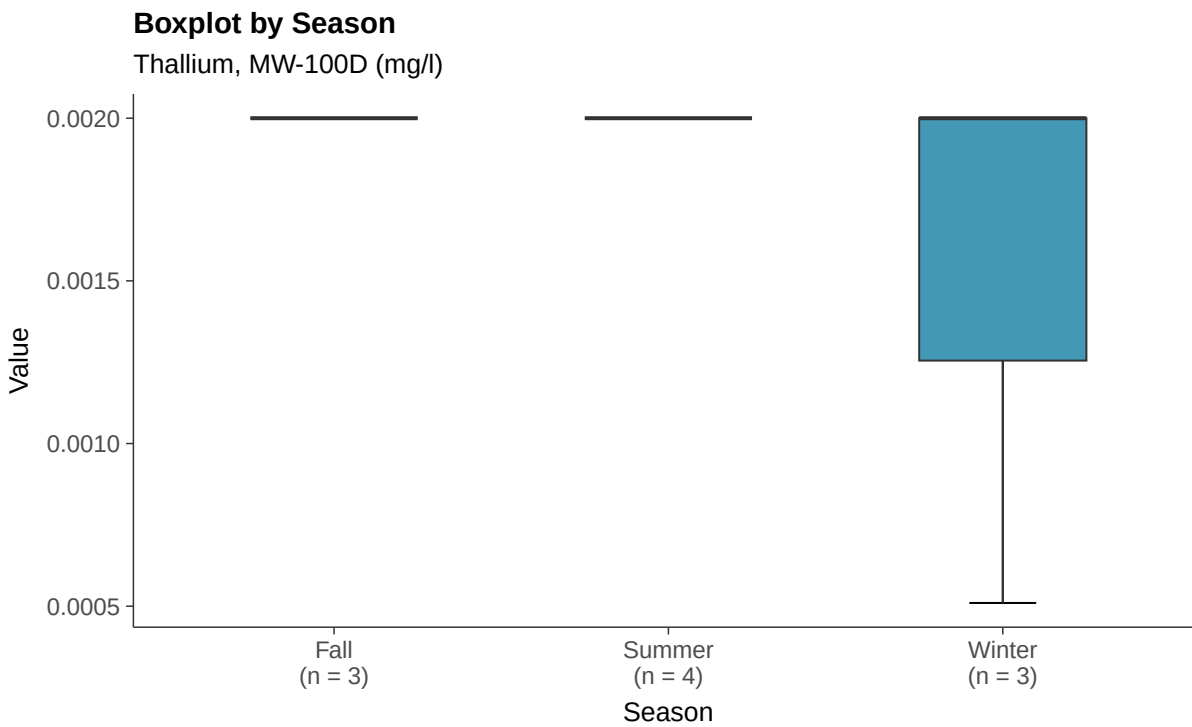
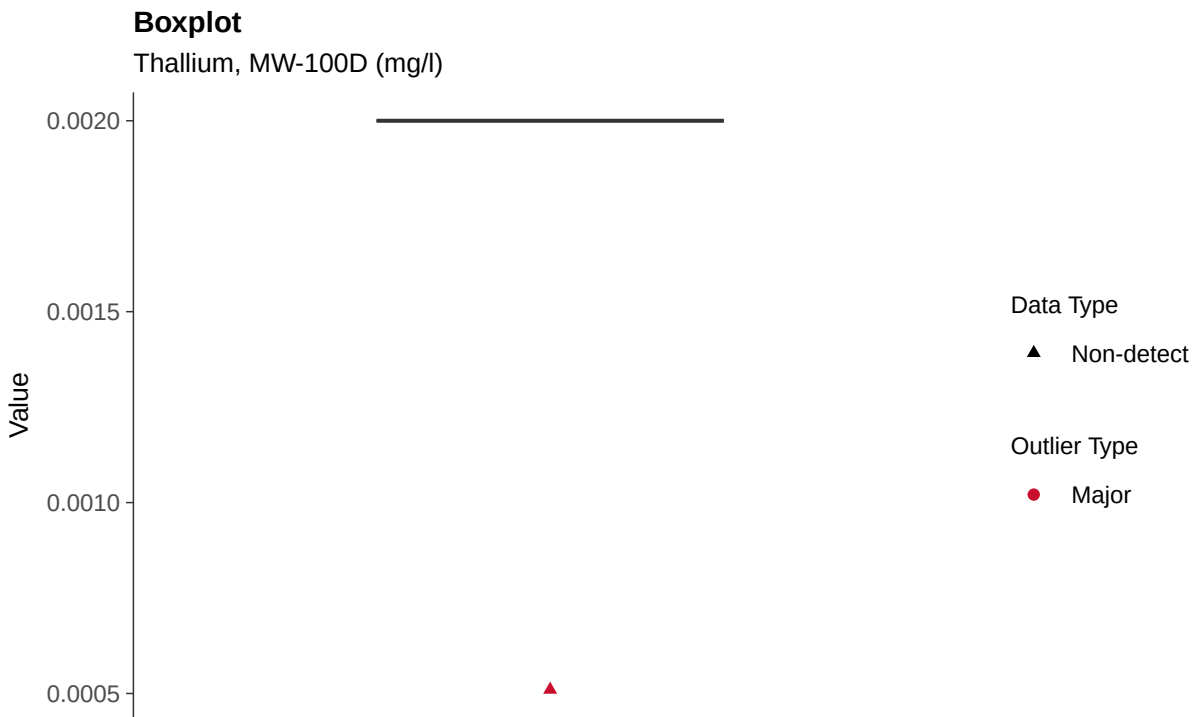




Appendix IV: Thallium, MW-100D

ID: 19_3_125

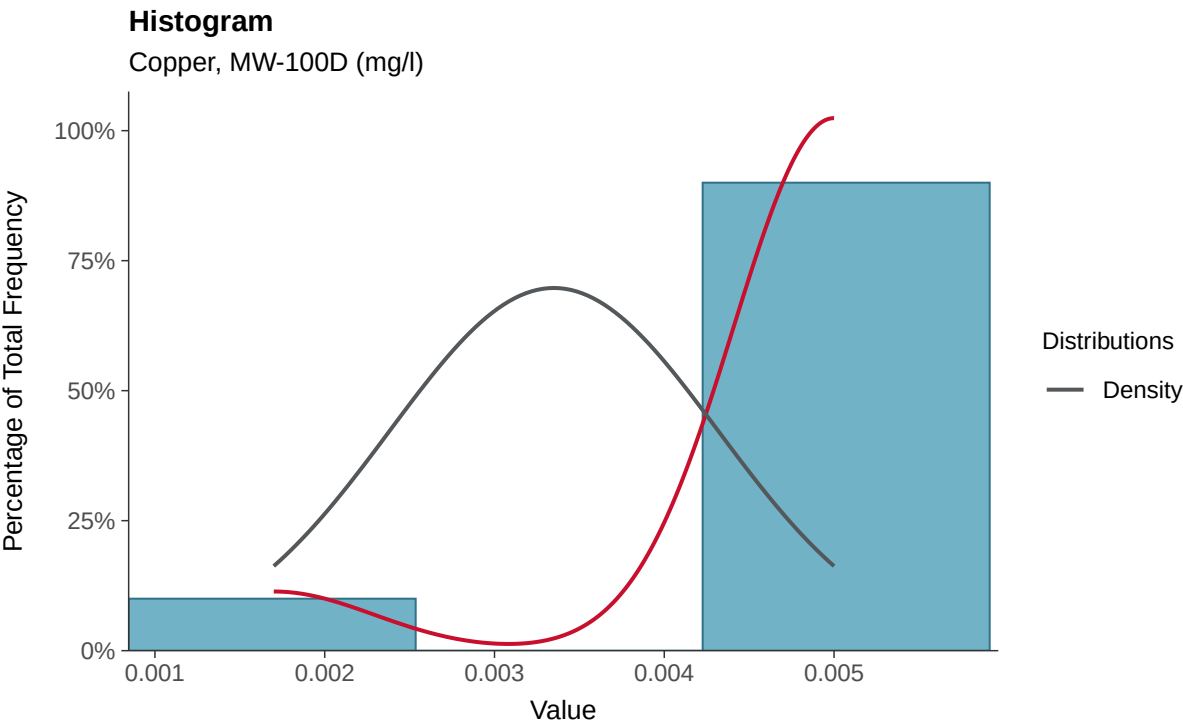
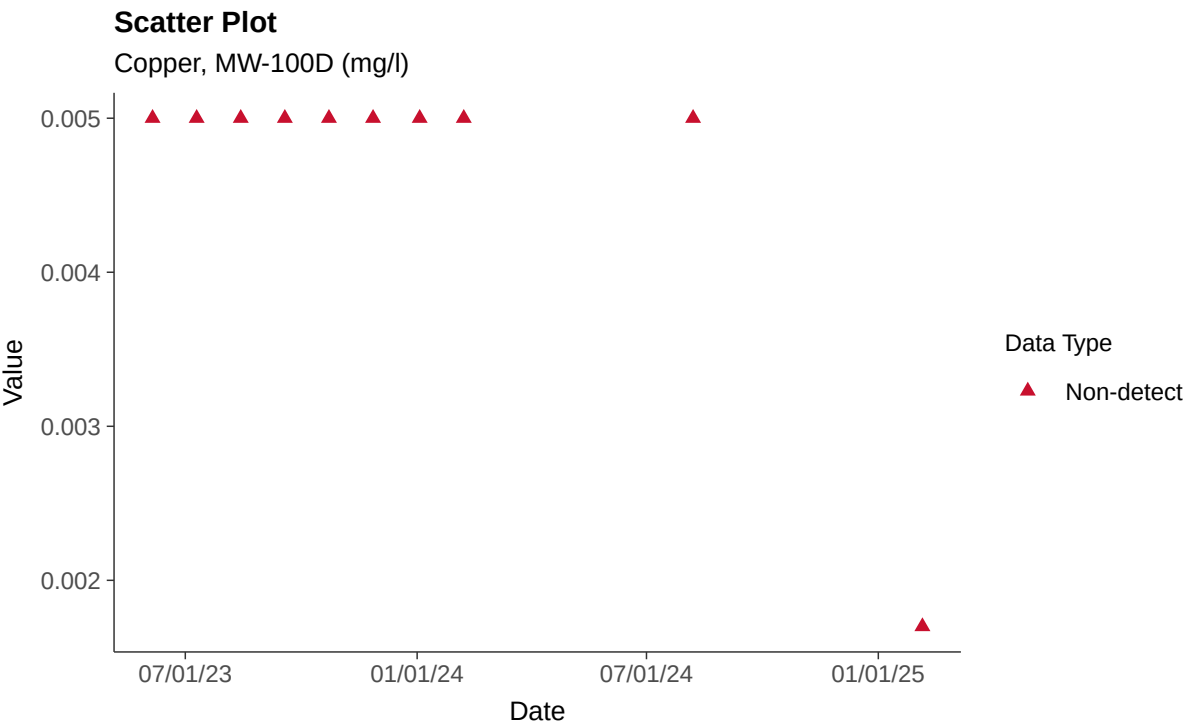


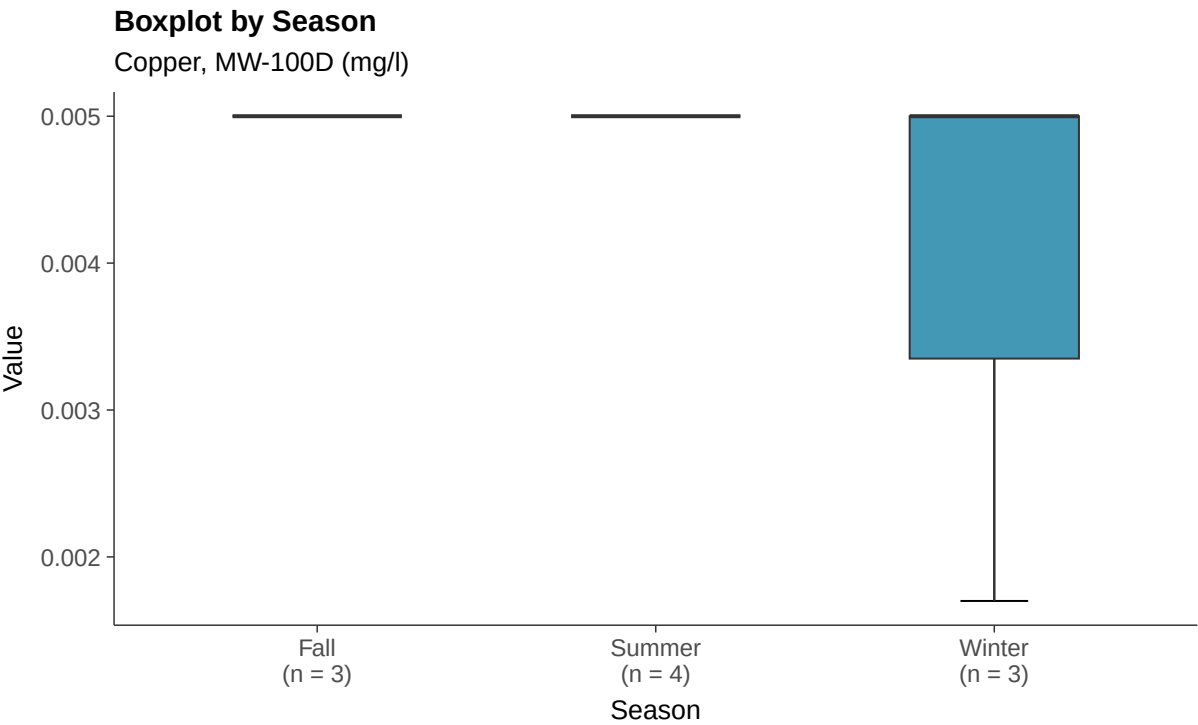
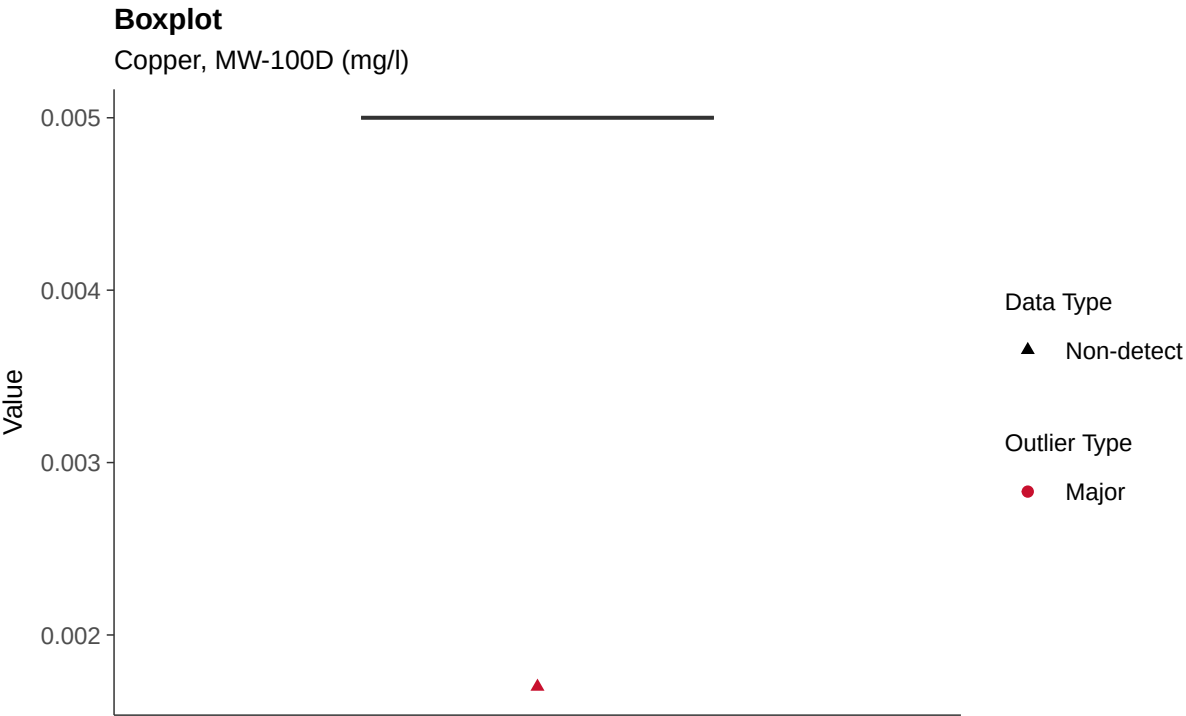




Part 115: Copper, MW-100D

ID: 19_5_111

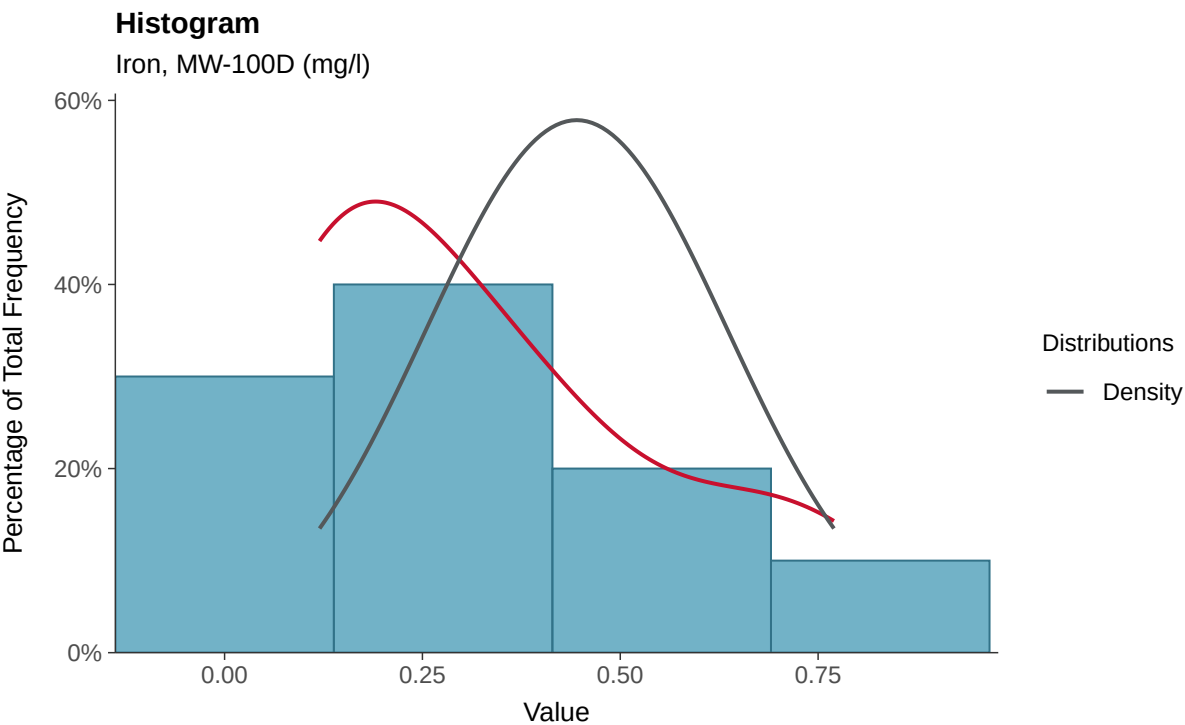
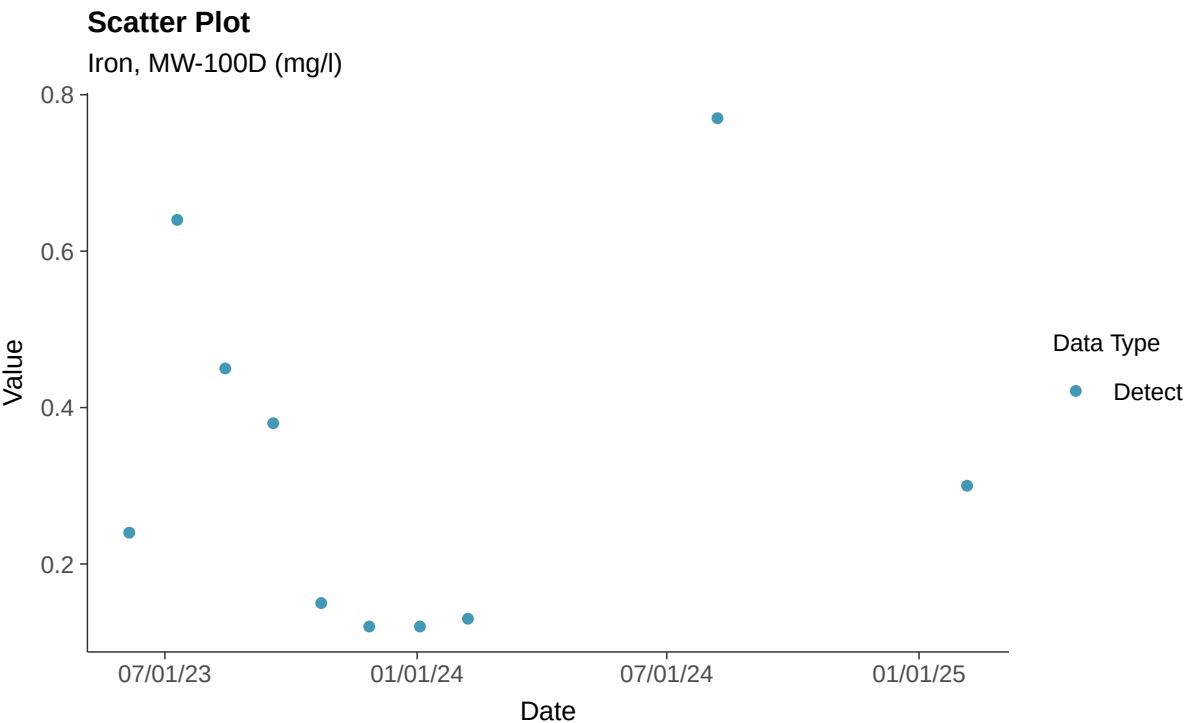


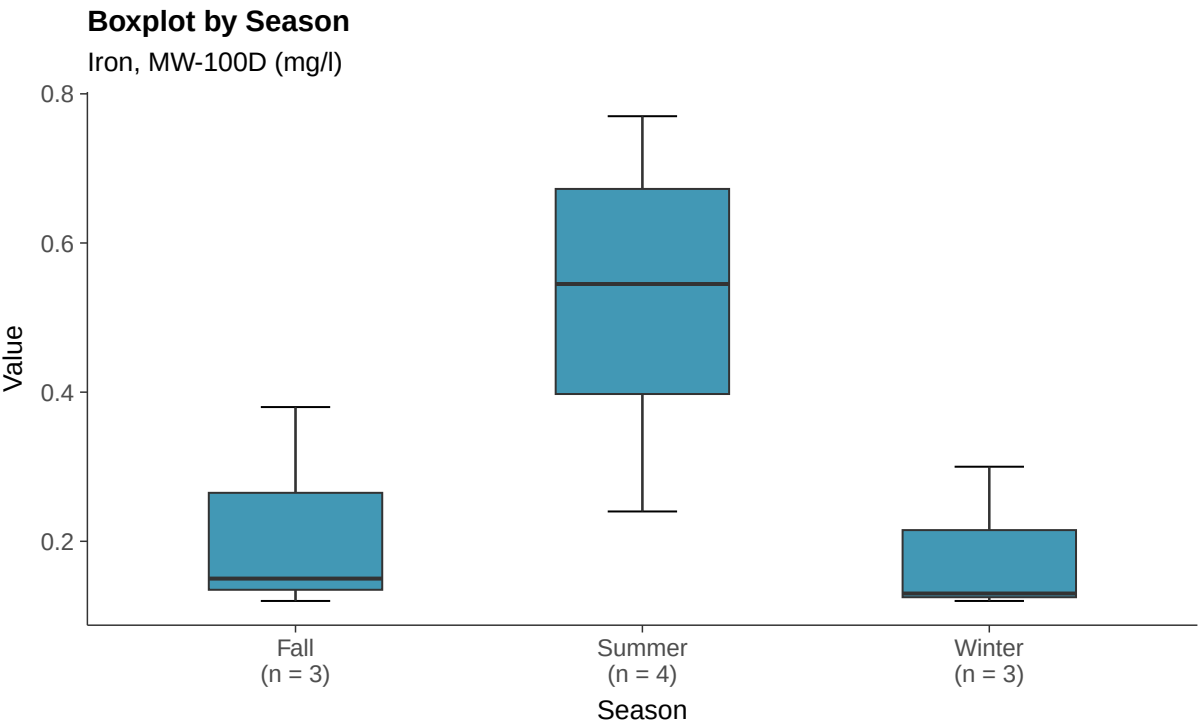
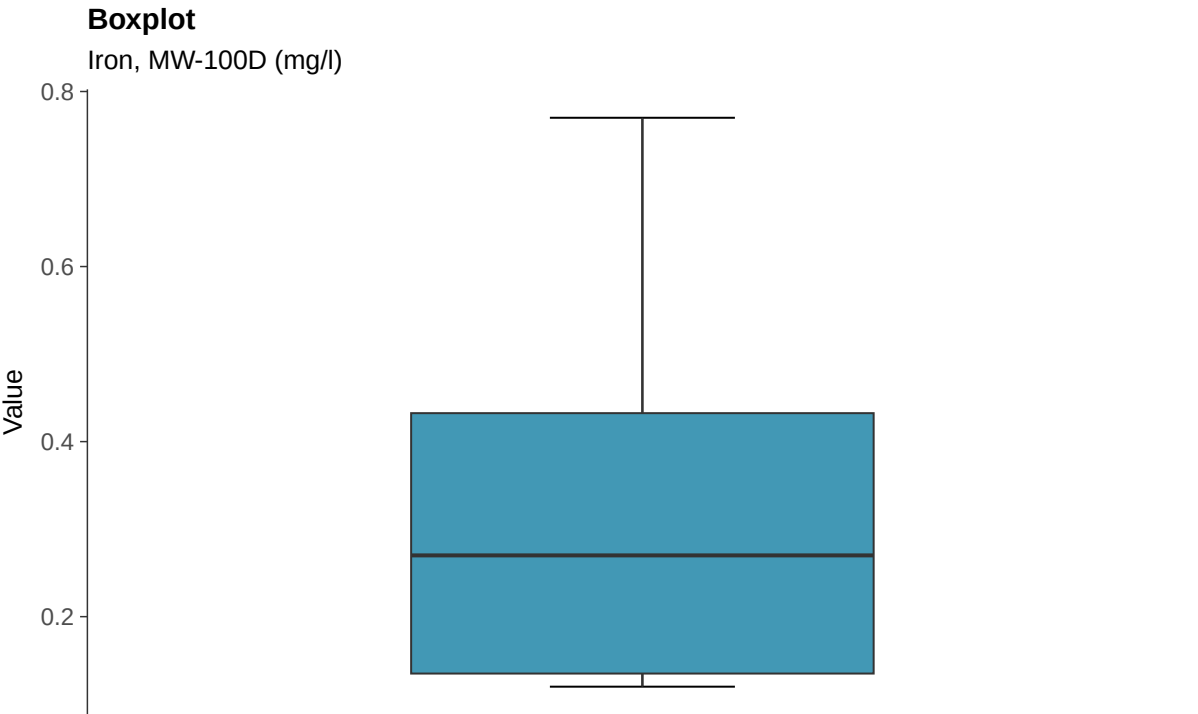




Part 115: Iron, MW-100D

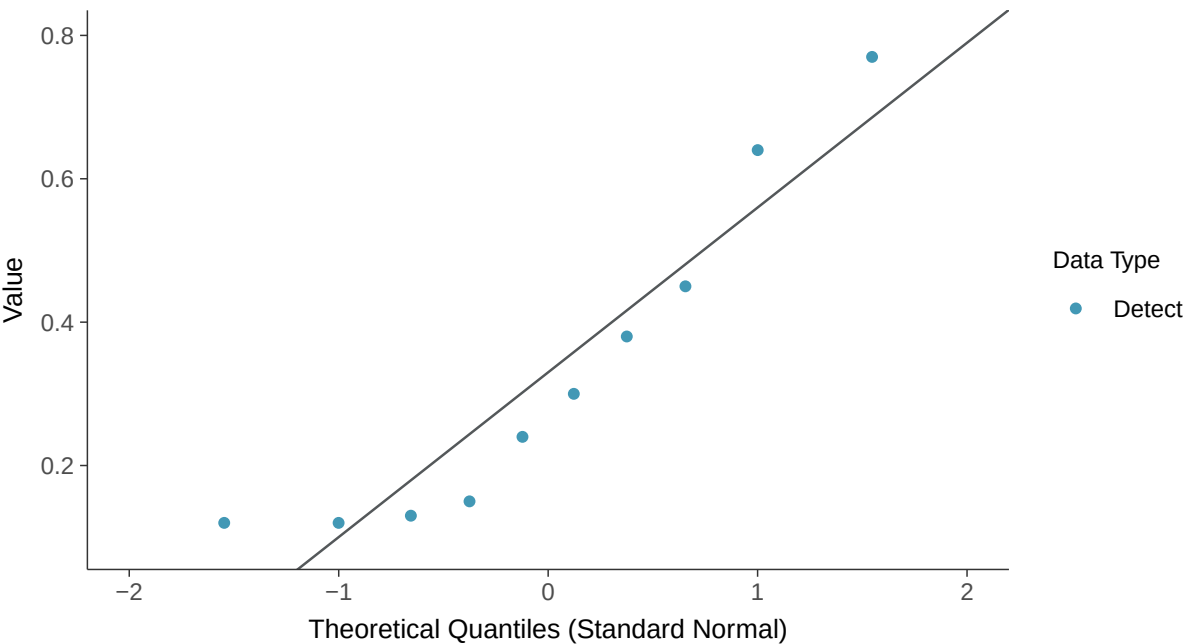
ID: 19_5_114



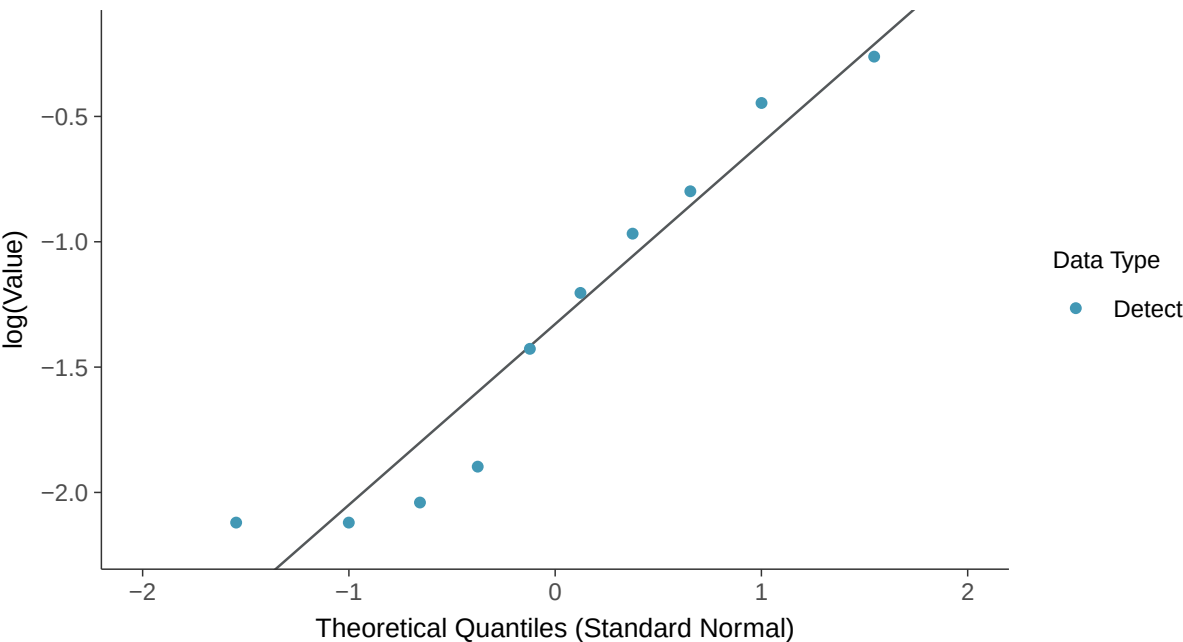


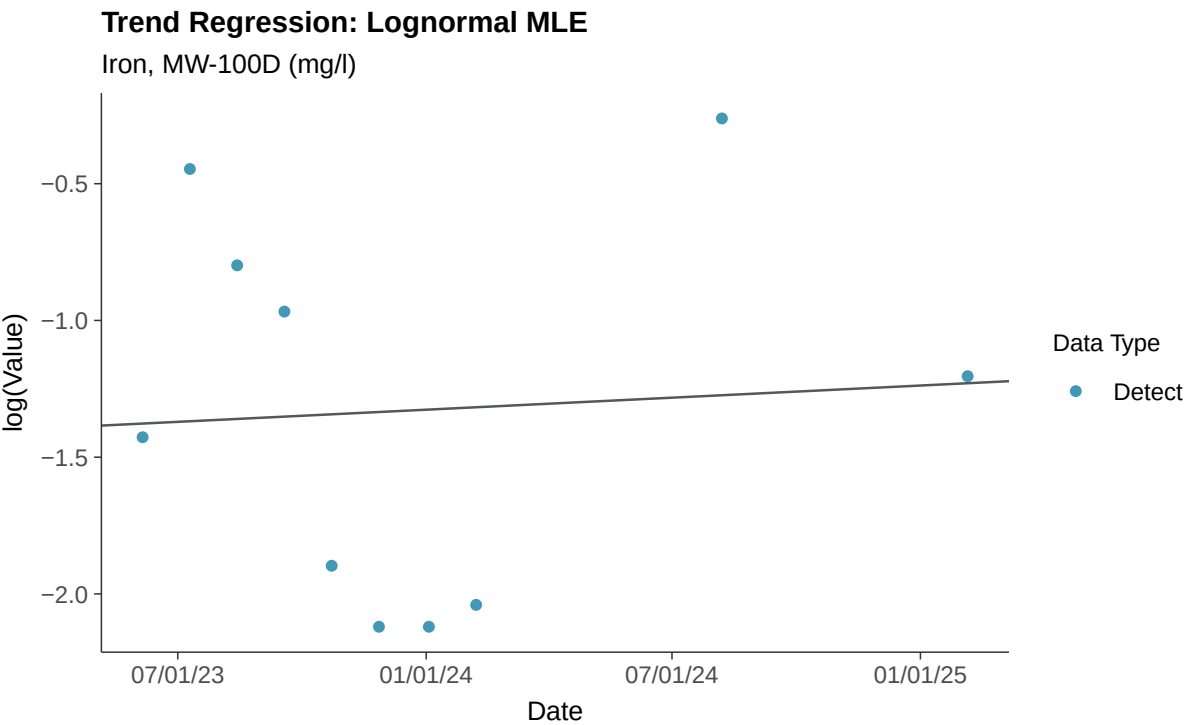
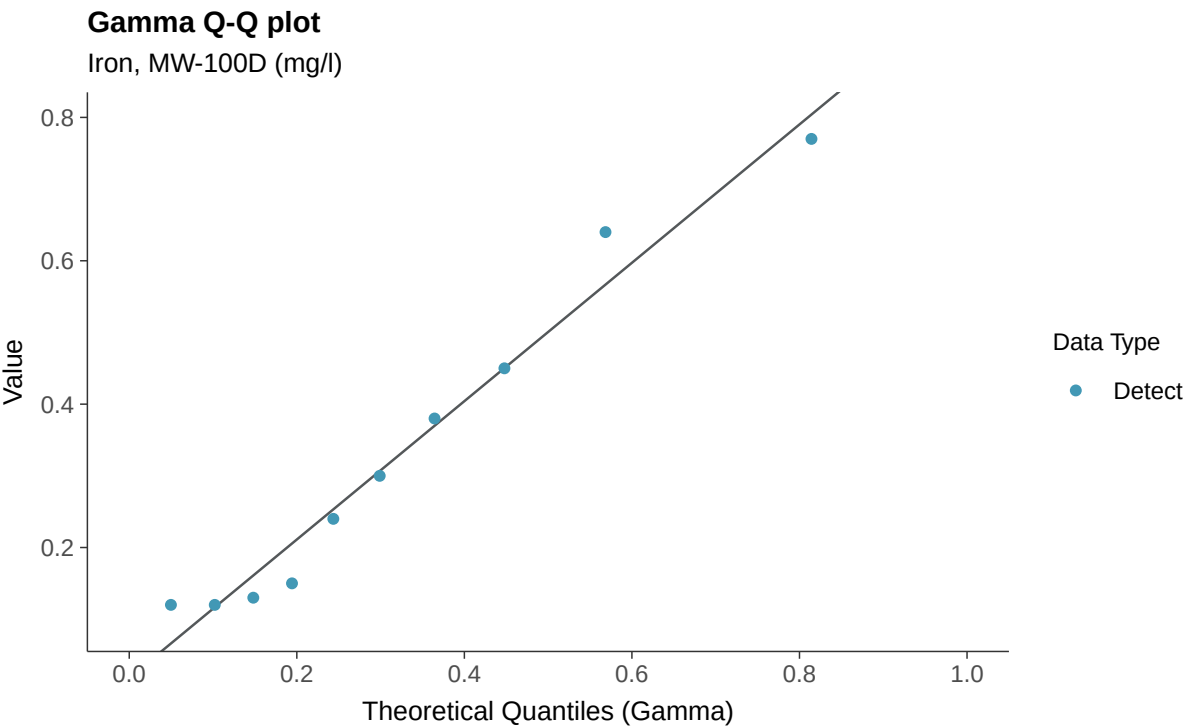


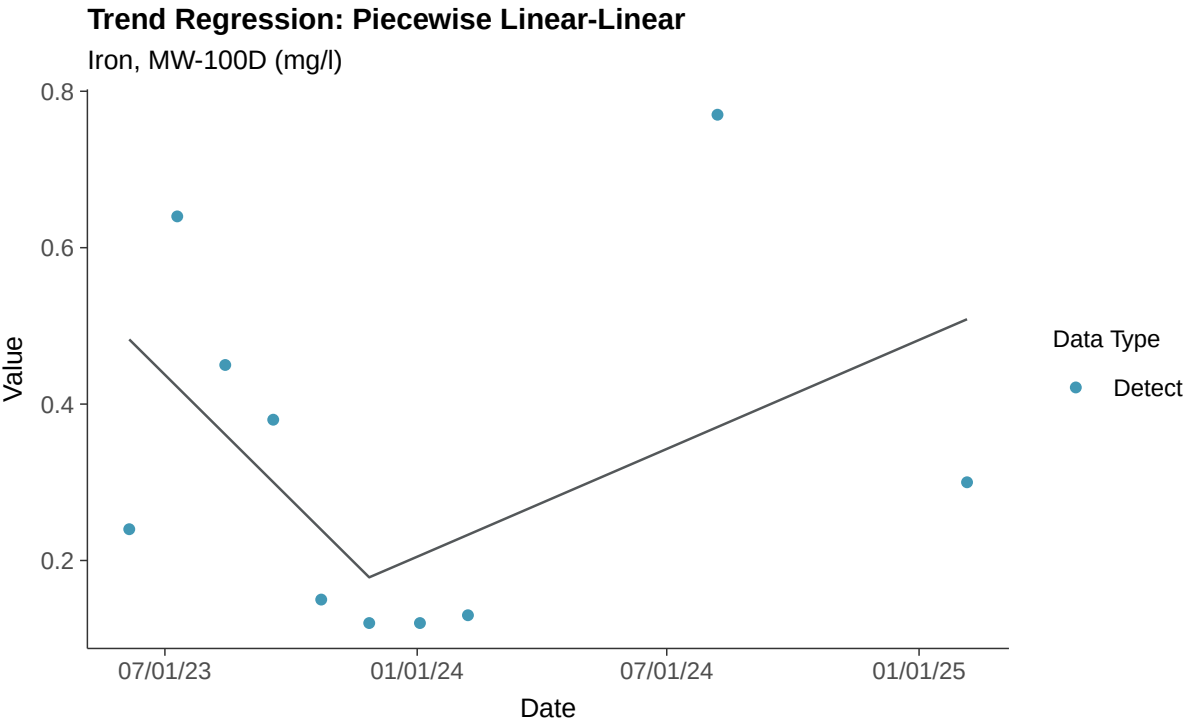
Normal Q-Q plot
Iron, MW-100D (mg/l)



Lognormal Q-Q plot
Iron, MW-100D (mg/l)



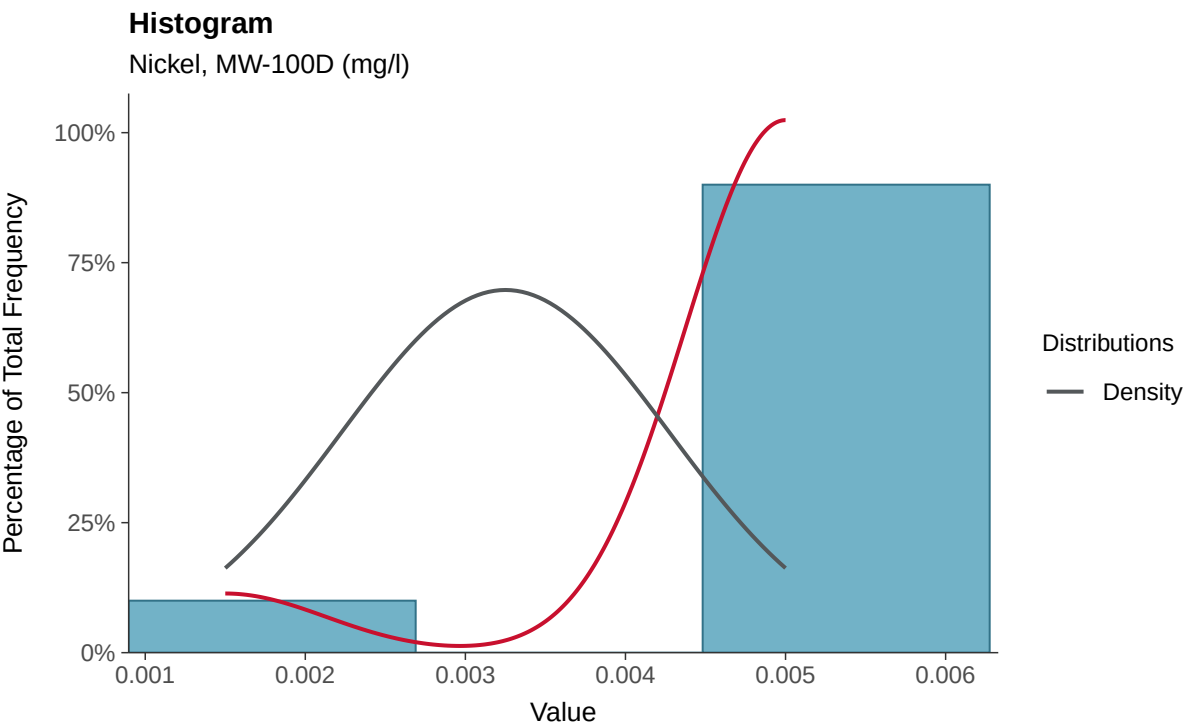
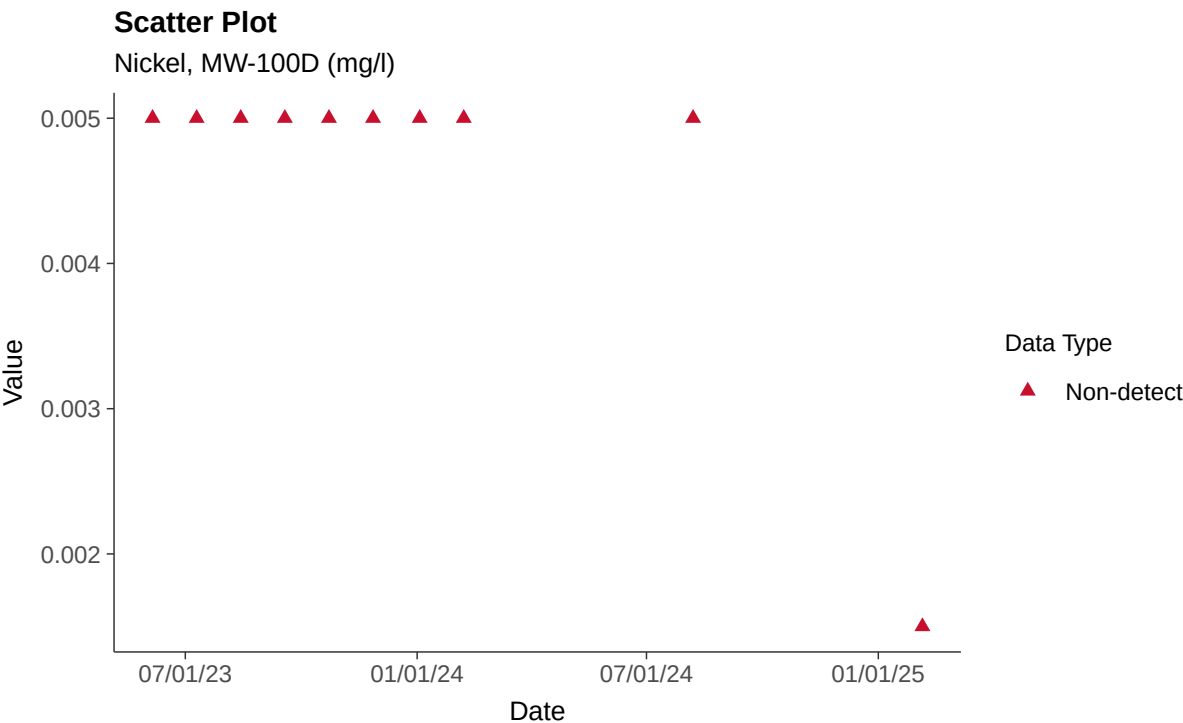


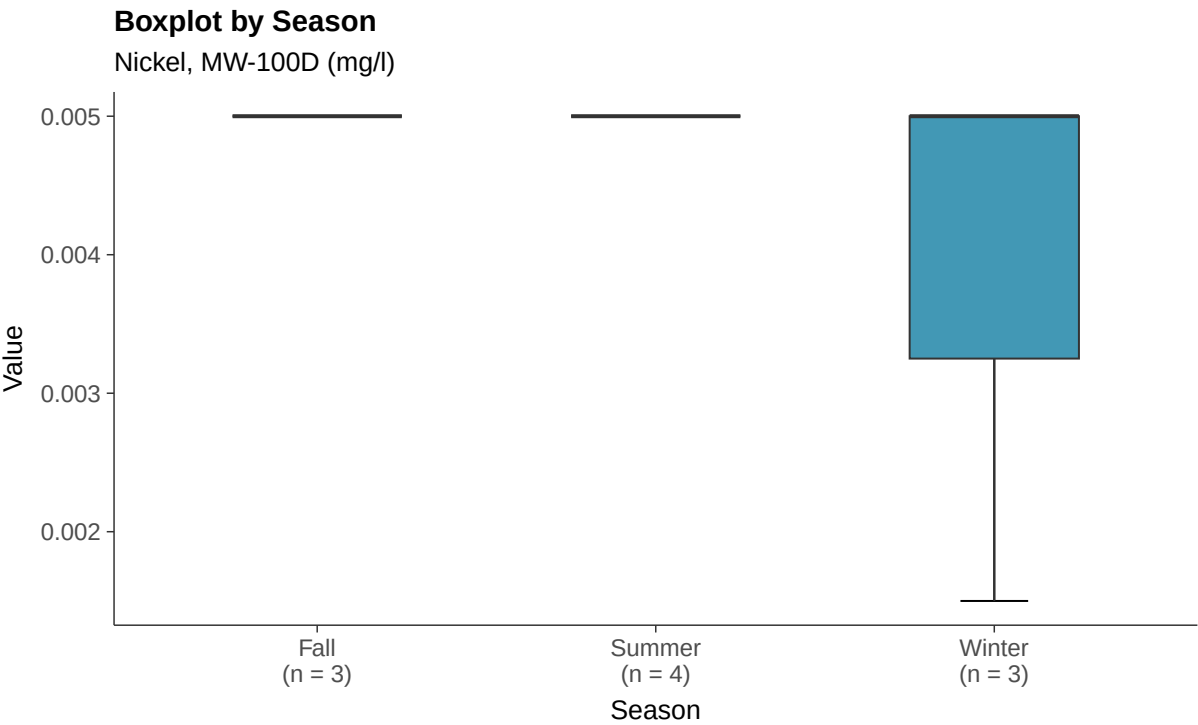
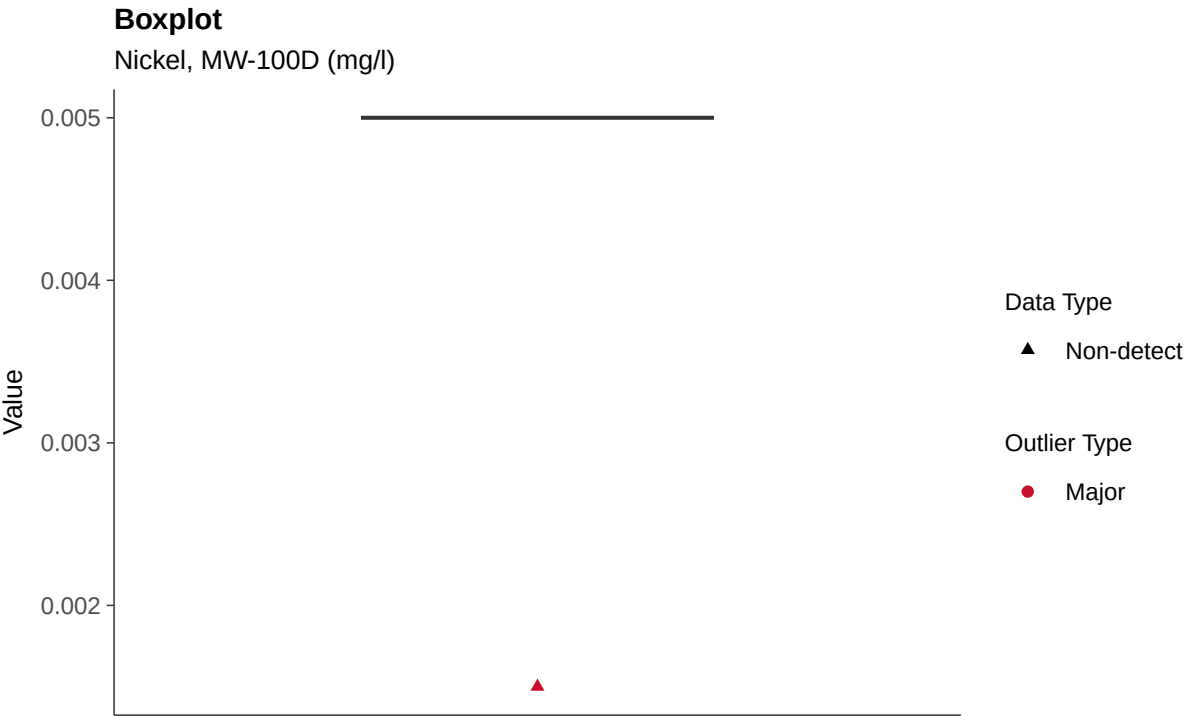




Part 115: Nickel, MW-100D

ID: 19_5_119

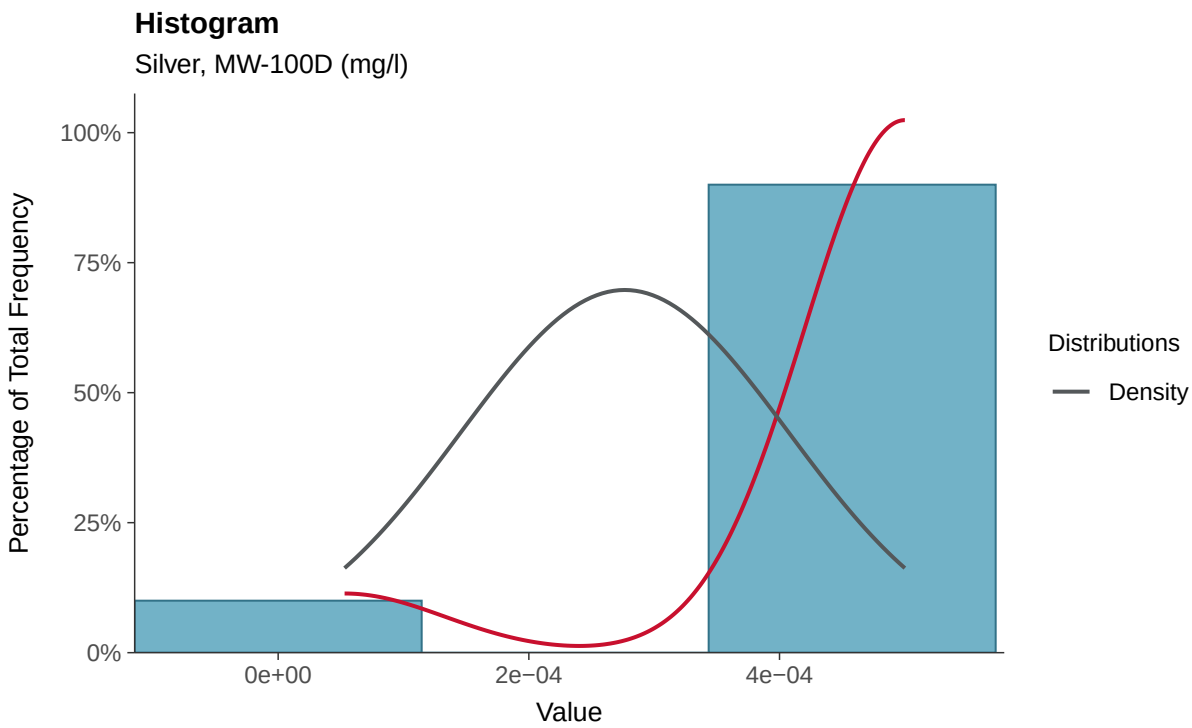
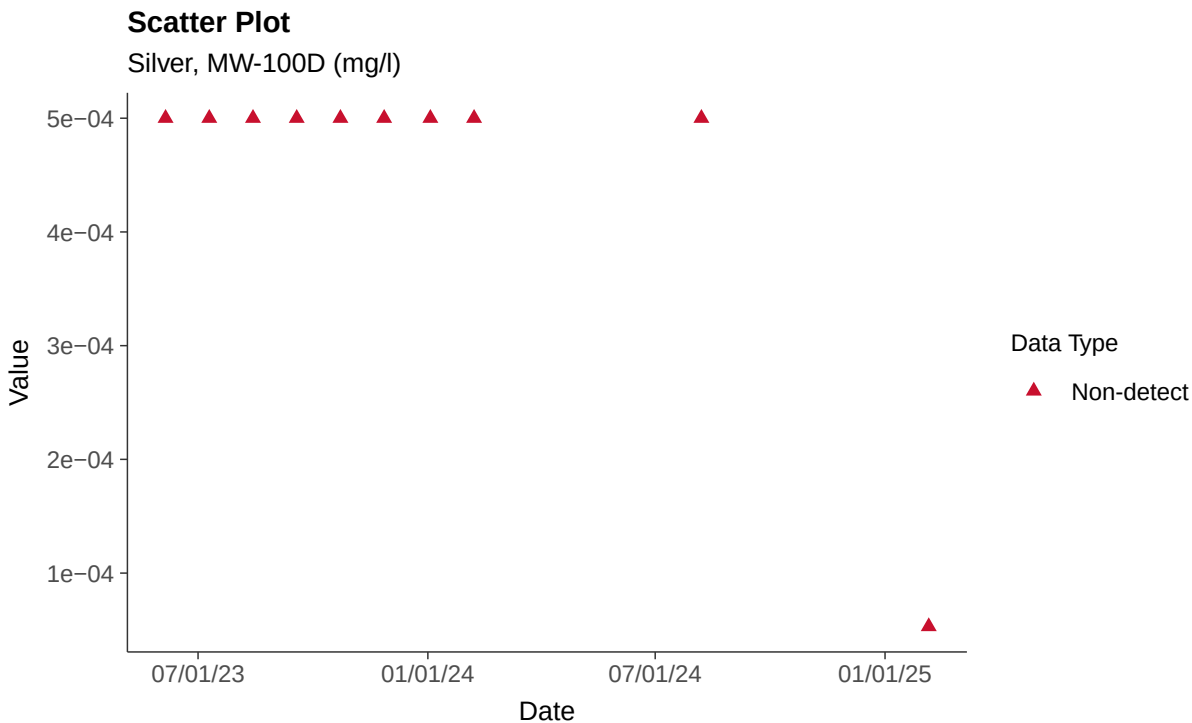


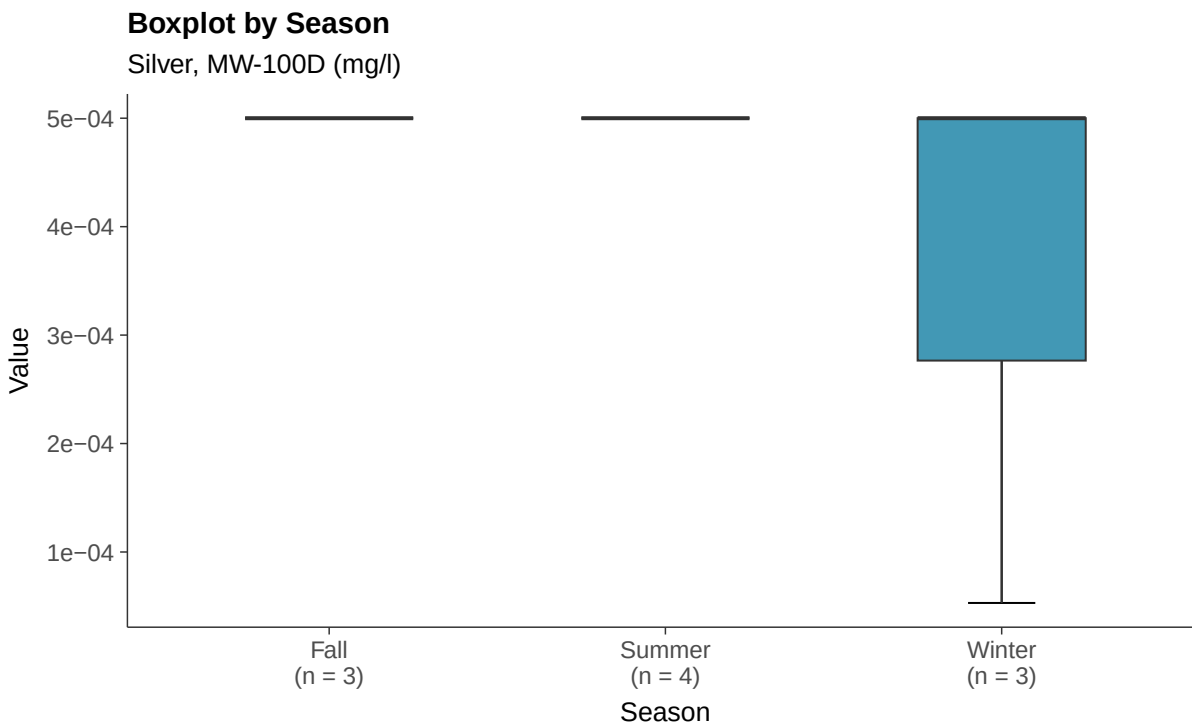
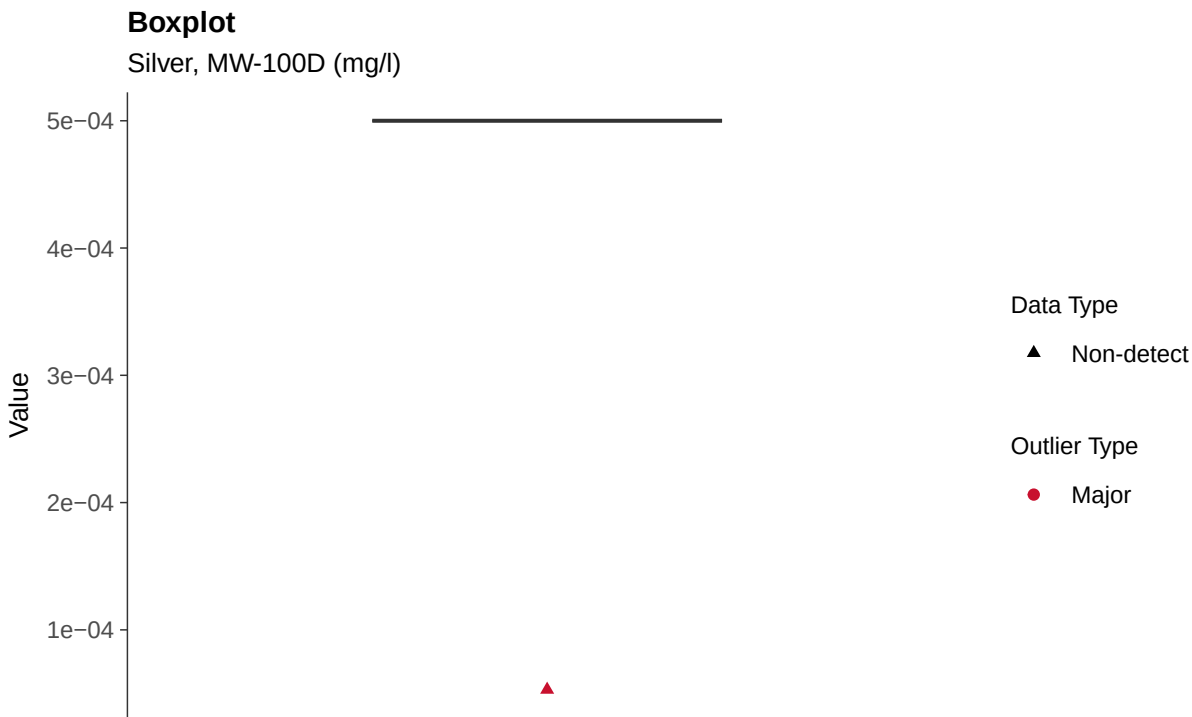




Part 115: Silver, MW-100D

ID: 19_5_123

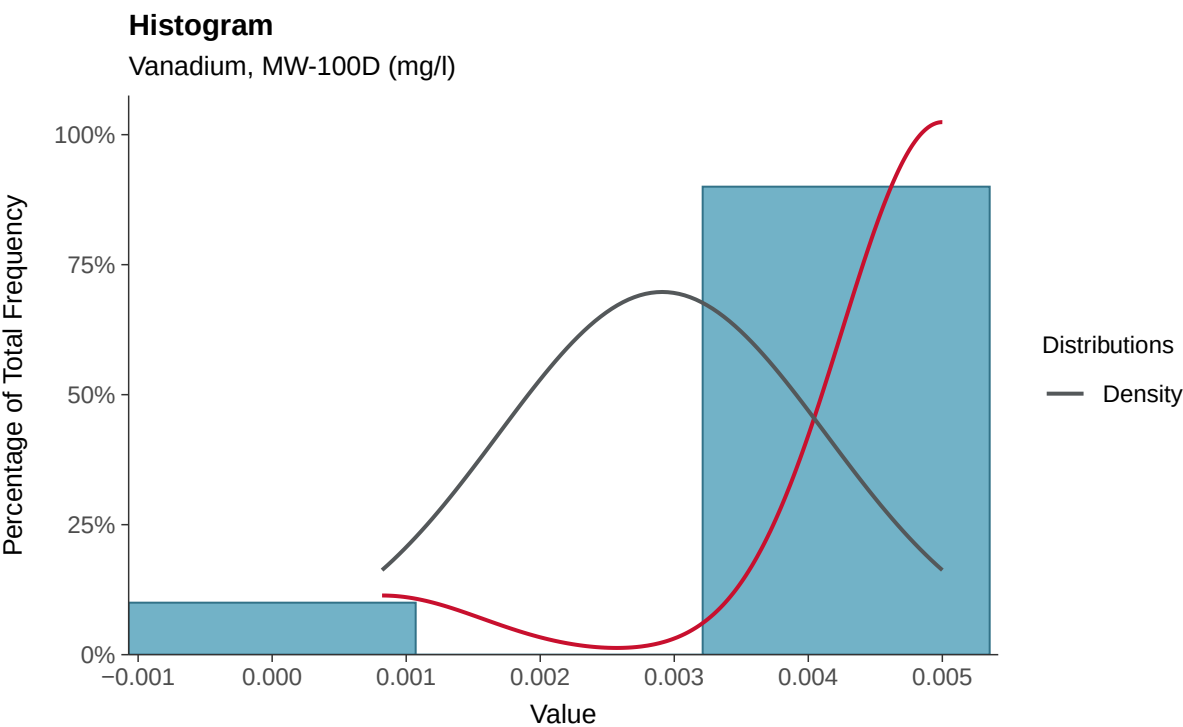
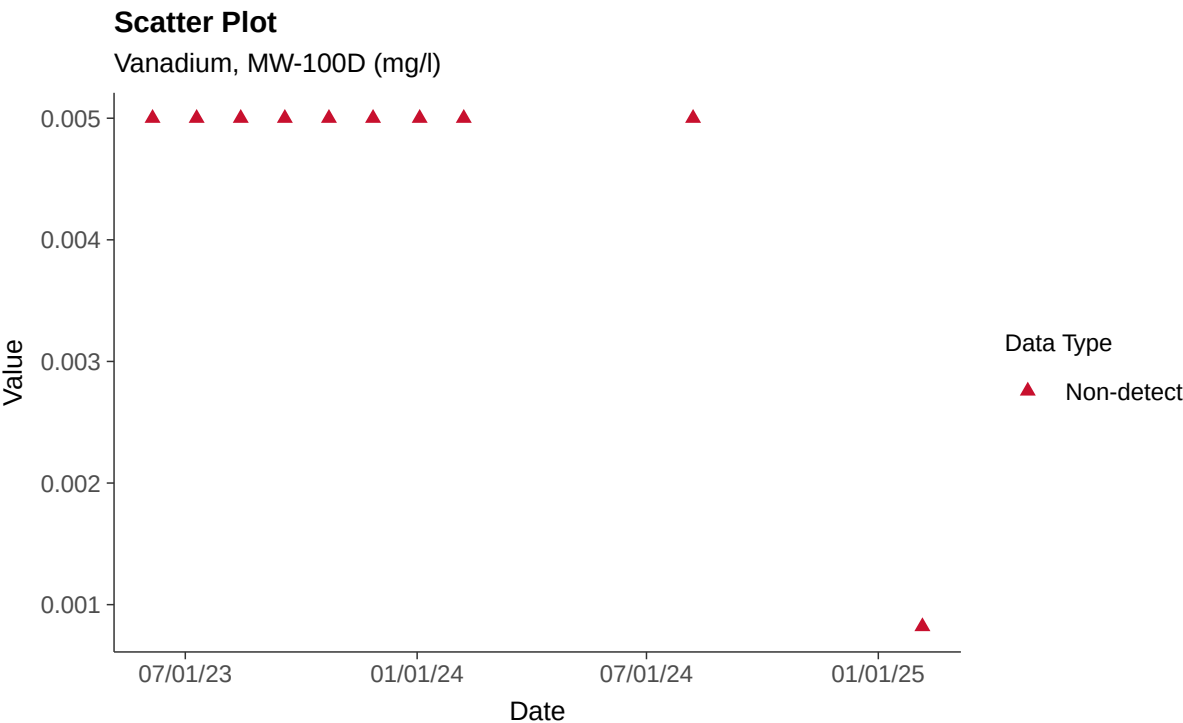


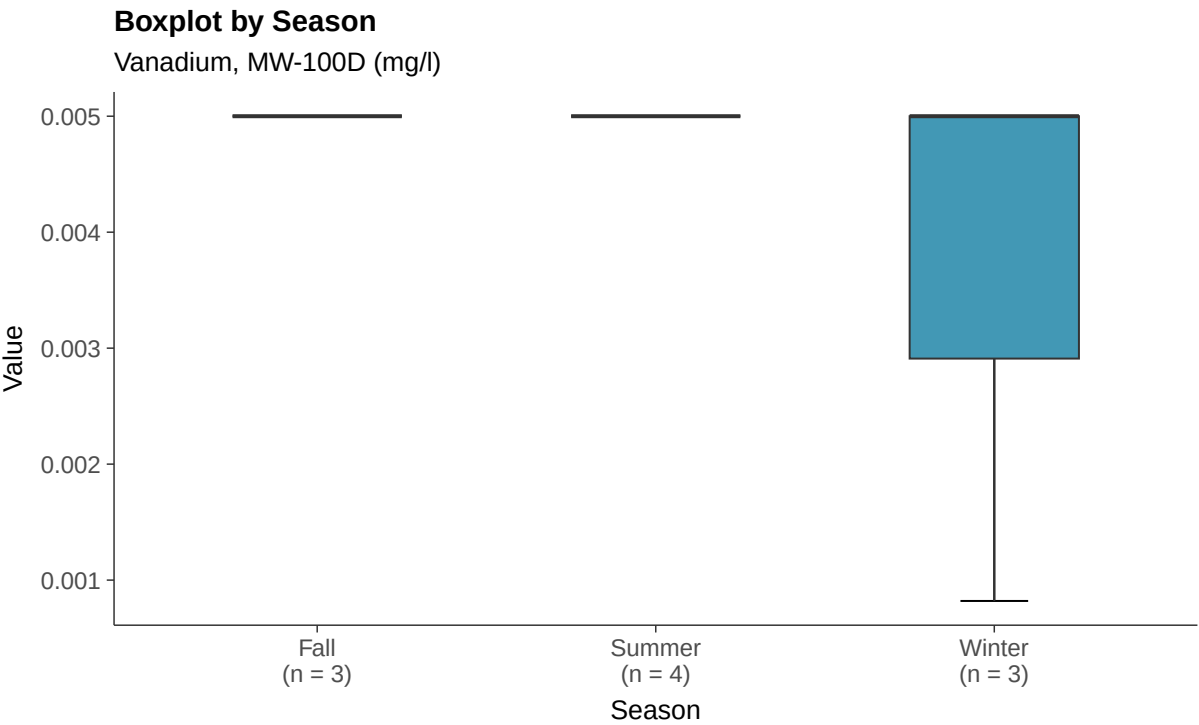
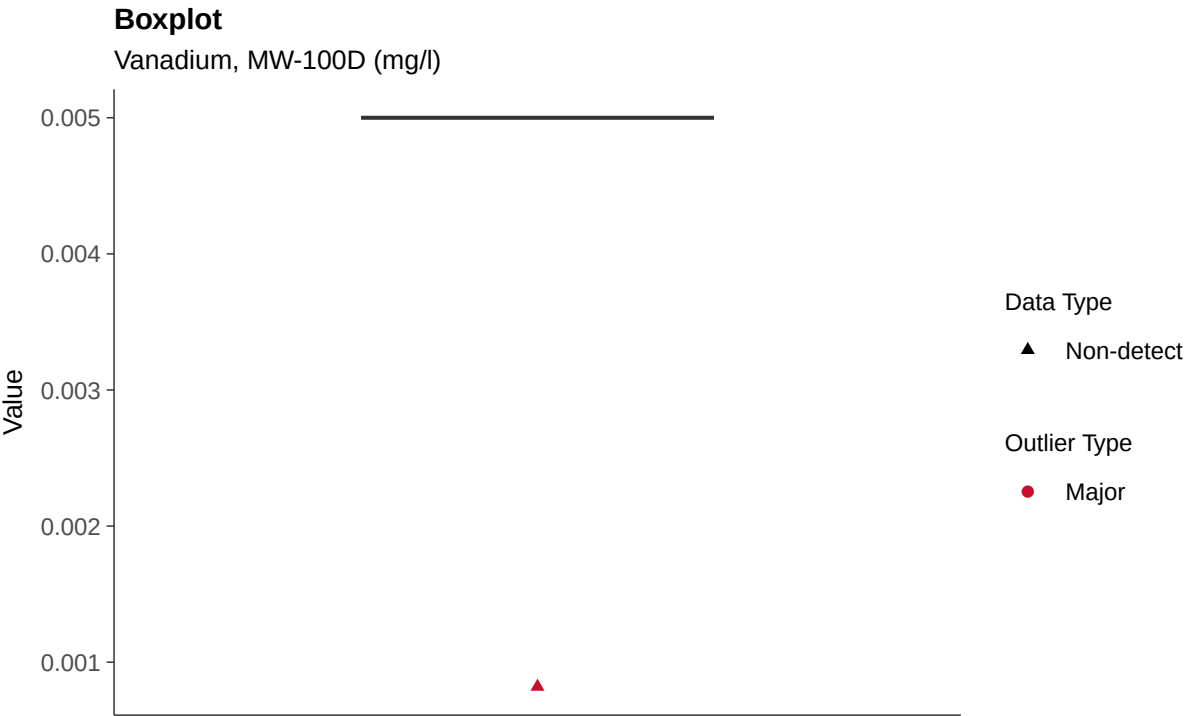




Part 115: Vanadium, MW-100D

ID: 19_5_128







Part 115: Zinc, MW-100D

ID: 19_5_129

