2025 Semi-Annual Groundwater Monitoring and Corrective Action Report and Semi-Annual Remedy Selection and Design Progress Report

for Compliance with the Coal Combustion Residuals (CCR) Rule

Former BC Cobb Power Plant

Muskegon Environmental Redevelopment Group, LLC

July 31, 2025

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Summary of 40 CFR Section § 257.90(e)(6) Groundwater Monitoring System Requirements and Site-Specific Compliance – Former BC Cobb Power Plant		
§ 257.90(e)(6) *A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:*		**Ponds 0-8 and Bottom Ash Pond Status**
§257.90(e)(6)(i)	*At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95.*	Assessment Monitoring Program and Evaluation of Potential Remedies
§257.90(e)(6)(ii)	*At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95.*	Assessment Monitoring Program and Evaluation of Potential Remedies
§257.90(e)(6)(iii)	*If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to § 257.94(e):*	Yes
§257.90(e)(6)(iii)(A)	*Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase.* These SSIs are from the original triggering event.	• MW-15009 – boron, pH • MW-15010 - boron • MW-15011 – boron, pH • MW-15012 – fluoride, pH • MW-15014 – boron, pH • MW-15015 – pH • MW-15017 – pH
§257.90(e)(6)(iii)(B)	*Provide the date when the assessment monitoring program was initiated for the CCR unit.*	April 25, 2018
§257.90(e)(6)(iv)	*If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to § 257.95(g) include all of the following:*	Yes
§257.90(e)(6)(iv)(A)	*Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase.* These SSLs are through the April 2025 sampling event.	MW-17001R – lithium MW-17002 – lithium MW-17002 – arsenic MW-17003 – arsenic
§257.90(e)(6)(iv)(B)	*Provide the date when the assessment of corrective measures was initiated for the CCR unit.*	April 15, 2019
§257.90(e)(6)(iv)(C)	*Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit.*	Will be held 30 days prior to remedy selection
§257.90(e)(6)(iv)(D)	*Provide the date when the assessment of corrective measures was completed for the CCR unit.*	September 11, 2019
§257.90(e)(6)(v)	*Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection.*	Evaluation of potential remedies ongoing
§257.90(e)(6)(vi)	*Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.*	Evaluation of potential remedies ongoing

1.0 Introduction

The U.S. Environmental Protection Agency's (EPA) final Coal Combustion Residuals (CCR) Rule 40 CFR §257 establishes a comprehensive set of requirements for the management and disposal of CCR (or coal ash) in surface impoundments by electric utilities. The former BC Cobb Power Plant (BCC, BC Cobb, or Site) is the site of a former coal-fired power generation facility located in Muskegon, Michigan (**Figure 1**). Consumers Energy Company (CEC) operated BCC between 1948 and 2016. During operations, coal combustion residuals (CCR) were deposited in Ponds 0-8 and the Bottom Ash Pond (**Figure 2**). This CCR unit is subject to the U.S. Environmental Protection Agency's (EPA) CCR Rule (40 CFR Part §257). In accordance with §257.91, CEC installed a groundwater monitoring system around the BCC Ponds as required by §257.91, and background groundwater monitoring was completed as required by §257.93. The CCR ponds are considered one CCR multi-unit.

As documented in the CEC January 14, 2019 *Notification of Appendix IV Constituent Exceeding Groundwater Protection Standard per §257.95(g),* lithium was observed present at statistically significant levels above the site-specific groundwater protection standard (GPS) developed for the CCR Rule compliance program in two downgradient monitoring wells at the BCC Ponds, thus necessitating CEC develop the September 2019 *Assessment of Corrective Measures*.

The Muskegon Environmental Redevelopment Group, LLC (MERG) acquired the BCC property in 2020 with the purpose of CCR removal from the ponds as part of closure efforts since August 2020. The CCR excavation efforts were completed in April of 2022 and dewatering efforts were ceased on June 15, 2022. MERG has continued implementation of the federal CCR Rule groundwater monitoring program, as required by §257.90-95.

In 2025, groundwater monitoring was conducted to collect assessment monitoring samples as specified under Part 257.95. While Semi-Annual reports for CCR Rule compliance typically focus on the remedy selection progress, because MERG may transfer ownership to CEC, this report includes the monitoring data and statistical analysis from monitoring between January and June 2025. This Semi-Annual Groundwater Monitoring Report presents the sampling and analysis completed by MERG through June 2025:

- The status of the groundwater monitoring program for the CCR ponds at the end of June 2025 is assessment monitoring and evaluation of potential remedies.

Figure 1. Vicinity Map for the former BC Cobb Power Plant

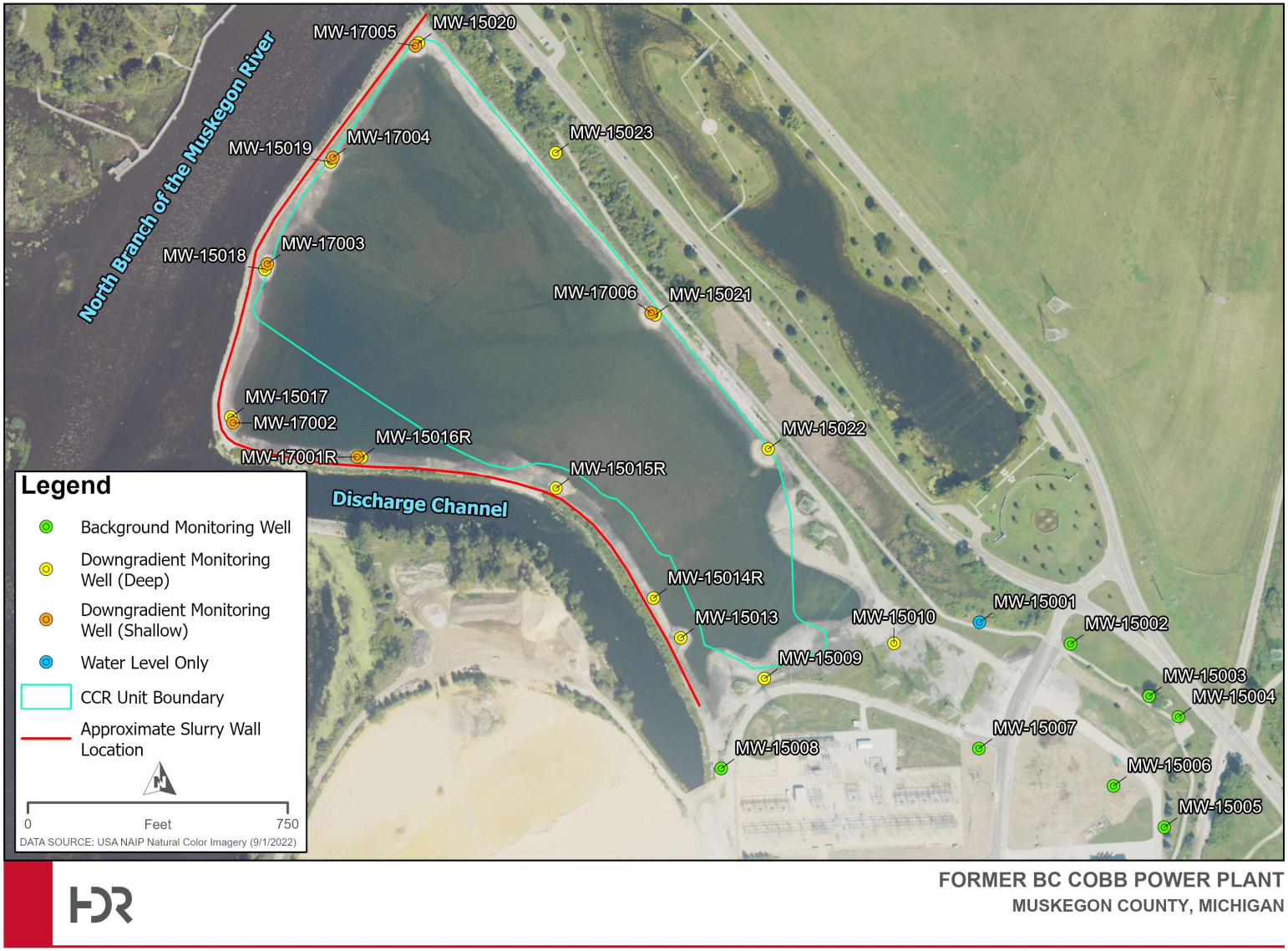


Figure 2. BC Cobb CCR Unit and Monitoring Wells

2.0 Facility Description

The Site is in close proximity with several water bodies. The site is adjacent to the North Branch of the Muskegon River on the north and northwest perimeter berms, and the Veterans Memorial Pond is to the northeast. The Discharge Channel is along the southern border of the Site and discharges into the North Branch of the Muskegon River. The CCR unit, which includes Ponds 0-8 and the Bottom Ash Pond, were wet ash dewatering areas. From 1984 through plant closure in 2016, CCR was deposited in the ponds by utilizing sluicing methods. Bottom ash slurry was directed into the Bottom Ash Pond, with Bottom Ash Pond overflow directed into either Ponds 5 or 6. Fly ash from the power plant was directed into Ponds 7 and 8. The ponded CCR was routed through the remaining ponds in series. Each pond allowed a portion of CCR particles to settle out before the overflow was transferred to the next pond. The overflow from Pond 4 was discharged to a National Pollutant Discharge Elimination System (NPDES) outfall located on the Discharge Channel. CCR was periodically removed from the ponds and disposed offsite or beneficially reused. During operation of the CCR units, the pond surface water elevations were at 588 feet. Since plant closure in 2016, the pond water elevation has lowered and before dewatering efforts began, appeared to be approximately that of the adjacent Muskegon River.

MERG initiated clean closure of the ponds in 2020 by installing a slurry wall around the perimeter berm adjacent to the North Branch of the Muskegon River (**Figure 2**). Dewatering began in July 2020 to prepare for excavation and removal of waste CCR and disposal offsite. Ash removal began in August 2020. Excavation, and ash removal was completed in April of 2022, and dewatering ceased on June 15, 2022. A summary of the CCR removal verification activities is provided in Section 5.1.

2.1 Hydrogeology

According to historic U.S. Geologic Survey (USGS) topographic maps and aerial photographs dating back to 1929, the area currently occupied by the ash ponds was originally marsh land. The subsurface materials in the pond area generally consist of CCR ranging from 3 to 28 feet below ground surface (ft bgs) overlying 10 to 20 feet of poorly graded, fine-grained sand. Discontinuous layers of organic materials (i.e., humus and peat) are present within the fine-grained sand. Organic-rich silt was also encountered at depths ranging from 20 to 30 ft bgs, beneath the fine-grained sand, ranging in thickness from approximately 1 to 13 feet. The organic-rich silt deposits are thickest in the perimeter berms along the southernmost edge of the pond area (toward Muskegon Lake). Thinner deposits of the organic-rich silt were encountered toward the northernmost edge of the pond area. Silty clay and/or poorly graded, fine- to medium-grained sand is generally observed within 30 to 40 ft bgs, beneath the organic-rich silt. An underlying clay was encountered throughout the pond area at approximately 40 ft bgs, beneath the fine to medium-grained sand.

Ponds 0-8 are bound by surface water features (**Figure 2**). The North Branch Muskegon River and former plant-associated discharge channel adjoin the western and southernmost boundaries of the pond area, and Veterans Memorial Park is located north and northeast of the pond area. MERG understands that there is surface water pumping at the Veterans Memorial Park on an occasional basis to limit the flooding in some areas of the park. Pumping performed at the park has the potential to influence the groundwater flow conditions at BCC. Therefore,

changes over time in groundwater flow conditions at the Site boundary will need to give consideration that potential for impact.

Groundwater flow within the uppermost aquifer has varied during plant operations and the post-shutdown period. While the ponds were actively receiving CCR and non-CCR wastewater, groundwater in the pond area was several feet higher than the surrounding surface water in Muskegon River and upgradient groundwater, creating a mound under the BCC Ponds, with groundwater flowing outward toward the surface water features. During shutdown there were significant changes to the groundwater flow direction as a result of the lack of loading to the ponds that began in April 2016, and for a period in 2017 the Veterans Memorial Pond was dewatered for maintenance activities. Between the shutdown of the plant and ash removal dewatering efforts, groundwater was encountered at a similar elevation to the surrounding surface water, generally within the range of 579 to 583 feet above mean sea level (ft AMSL). Using the average hydraulic conductivity measured at the monitoring wells of 58 feet/day (ARCADIS, 2016), and an assumed effective porosity of 0.3, this results in groundwater flow rate of approximately 0.31 feet/day (approximately 113 feet/year).

2.2 Monitoring Well Network

The CCR Rule requires, at a minimum, one upgradient and three downgradient monitoring wells per CCR unit to be completed in the uppermost aquifer. Section §257.90 of the Rule states that the operator: "…may install a multiunit groundwater monitoring system instead of separate groundwater monitoring systems for each CCR unit." In addition, the Rule states that downgradient monitoring wells should be installed to: "accurately represent the quality of groundwater passing the waste boundary of the CCR unit. The downgradient monitoring system must be installed at the waste boundary that ensures detection of groundwater contamination in the uppermost aquifer."

The certified monitoring network at BC Cobb includes seven background wells on the southeast end of the Site to evaluate groundwater conditions unaffected by the CCR unit. Prior to CCR removal, Ponds 0-8 were separated by narrow embankments that were not recommended for well installation. To install downgradient wells at the waste boundary, wells would have needed to be installed on the embankments. Therefore, MERG monitors Ponds 0-8 and the Bottom Ash Pond as a single multiunit groundwater monitoring system composed of 19 wells surrounding the entire CCR unit. The CCR unit boundary and the monitoring well locations are shown on **Figure 2.**

Seven wells (MW-15002 through MW-15008) were installed in the southeast area of the Site to evaluate water quality unaffected by the CCR unit. **Appendix A** maps illustrate that these background wells are still upgradient or at a side gradient to the CCR unit and therefore even with groundwater flow changes at the site these wells remain appropriate background wells. MW-15001 was sampled during the background monitoring phase of the CCR Rule compliance program but now serves as a nature and extent well with only static water level measurement required.

Downgradient wells MW-15009 through MW-15023 were installed in 2015 to form the MERG multiunit network around the CCR unit (Ponds 0-8 and the Bottom Ash Pond). Shallow wells MW-17001 through MW-17006 were installed in 2017 and were paired with existing wells MW-

15016R through MW-15021 to better characterize shallow groundwater quality and flow direction (**Figure 2**). MW-15016R through MW-15021 now provide data on deeper groundwater while MW-17001R through MW-17006 provide shallow groundwater data.

3.0 Monitoring

Semi-annual groundwater sampling for assessment monitoring was conducted on the certified monitoring well network during the first half of 2025. **Table 1** provides the well identification number, well location, the dates the samples were collected, and whether the sample was required by the CCR Rule for the background sampling, detection monitoring or assessment monitoring programs. CEC initiated sample collection for background monitoring in December 2015 and completed the eighth round, as required by the CCR Rule, in July 2017. In accordance with CCR Rule §257.94(b), one round of detection monitoring was completed in September 2017. Three COIs were observed with statistically significant increases (SSIs) above background levels. The initial round of assessment monitoring was completed in April 2018 by CEC, and after an Alternative Source Demonstration was unsuccessful, CEC initiated assessment monitoring. The first round of semi-annual assessment monitoring took place in June 2018.

Assessment monitoring was performed in April 2025.

Table 1. Dates of groundwater samples collected for each well in 2025 and the required monitoring programs for the BC Cobb facility §257.90(e)(3)

Monitoring Well I.D.	Well Location	Dates Monitored	CCR Rule Monitoring Purpose
MW-15001	Water Level Only	April 22, 2025	Water Level Monitoring
MW-15002	Background/Upgradient	April 24, 2025	Assessment Monitoring
MW-15003	Background/Upgradient	April 24, 2025	Assessment Monitoring
MW-15004	Background/Upgradient	April 24, 2025	Assessment Monitoring
MW-15005	Background/Upgradient	April 23, 2025	Assessment Monitoring
MW-15006	Background/Upgradient	April 23, 2025	Assessment Monitoring
MW-15007	Background/Upgradient	April 23, 2025	Assessment Monitoring
MW-15008	Background/Upgradient	April 23, 2025	Assessment Monitoring
MW-15009	Downgradient	April 23, 2025	Assessment Monitoring
MW-15010	Downgradient	April 22, 2025	Assessment Monitoring
MW-15013	Downgradient	April 24, 2025	Assessment Monitoring
MW-15014R	Downgradient	April 24, 2025	Assessment Monitoring
MW-15015R	Downgradient	April 24, 2025	Assessment Monitoring
MW-15016R	Downgradient	April 24, 2025	Assessment Monitoring
MW-15017	Downgradient	April 23, 2025	Assessment Monitoring
MW-15018	Downgradient	April 23, 2025	Assessment Monitoring
MW-15019	Downgradient	April 23, 2025	Assessment Monitoring
MW-15020	Downgradient	April 22, 2025	Assessment Monitoring
MW-15021	Downgradient	April 23, 2025	Assessment Monitoring
MW-15022	Downgradient	April 23, 2025	Assessment Monitoring
MW-15023	Downgradient	April 22, 2025	Assessment Monitoring
MW-17001R	Downgradient	April 24, 2025	Assessment Monitoring
MW-17002	Downgradient	April 23, 2025	Assessment Monitoring
MW-17003	Downgradient	April 23, 2025	Assessment Monitoring
MW-17004	Downgradient	April 23, 2025	Assessment Monitoring
MW-17005	Downgradient	April 22, 2025	Assessment Monitoring

Monitoring Well I.D.	Well Location	Dates Monitored	CCR Rule Monitoring Purpose
MW-17006	Downgradient	April 24, 2025	Assessment Monitoring

Note: MW-15001 is measured for water level only. No samples are collected from MW-15001.

3.2 Water Levels and Sample Collection

Water levels were collected in each well following the Groundwater Level Monitoring Standard Operating Procedure (SOP) (HDR, 2020). Water levels were measured before well purging began. Wells were purged until field parameters (pH, turbidity, conductivity, dissolved oxygen, temperature, and oxidation reduction potential) stabilized using a peristaltic pump and dedicated tubing. 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 2**. One round of assessment monitoring samples were collected from each well in April 2025. For quality control, two field duplicate samples were collected during the sample event. Samples from the event were delivered to Trace Analytical Laboratories in Muskegon, Michigan.

3.3 Analytical Testing

Samples were taken for assessment monitoring in April 2025. Samples were analyzed for all Appendix III and Appendix IV parameters, plus TSS as listed in **Table 2**. Additional constituents of copper, nickel, iron, vanadium, silver, and zinc are analyzed to comply with the concurrent State of Michigan Part 115 groundwater program.

Table 2. Constituents of Interest

Appendix III Constituents	Appendix IV Constituents
Boron	Antimony
Calcium	Arsenic
Chloride	Barium
Fluoride	Beryllium
pH	Cadmium
Sulfate	Chromium
Total Dissolved Solids (TDS)	Cobalt
Additional Parameters	Fluoride
Total Suspended Solids (TSS)	Lead
	Lithium
	Mercury
	Molybdenum
	Selenium
	Thallium
	Radium 226 and 228 combined

3.4 Data Validation and Data Management

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 were reviewed and evaluated, and no samples were rejected. Most quality control analyses were within reportable limits; however, when quality control was outside limit controls, samples were reported as estimated. Data analyses required minimal qualifications, and all data were

usable, even when qualified. Qualifiers are included in the footnotes of the reporting tables, contained in **Appendix B** and data validation reports are included in **Appendix C**.

4.0 Monitoring Results

4.1 Water Levels and Groundwater Flow Direction

Water level measurements collected in 2025 are provided in **Table 3**. Potentiometric surface maps have been developed based on water levels measured in April 2025, provided in **Appendix A**. The maps display the groundwater elevations at the wells and groundwater contours for the shallow screened wells (MW-170xx) and deeper screened wells (MW-150xx).

In April 2025, the potentiometric contours show flow direction from southeast to northwest toward the North Branch of the Muskegon River, consistent with previous measurements. As observed in **Figure 3**, measurements collected in 2024 and 2025 indicate groundwater elevations have returned to stable, pre-construction levels, as anticipated. In April 2025, groundwater elevations beneath the area of the impoundments range between 579.20 and 580.18 ft amsl. The observed flow direction in the shallow wells was toward the Muskegon River to the northwest.

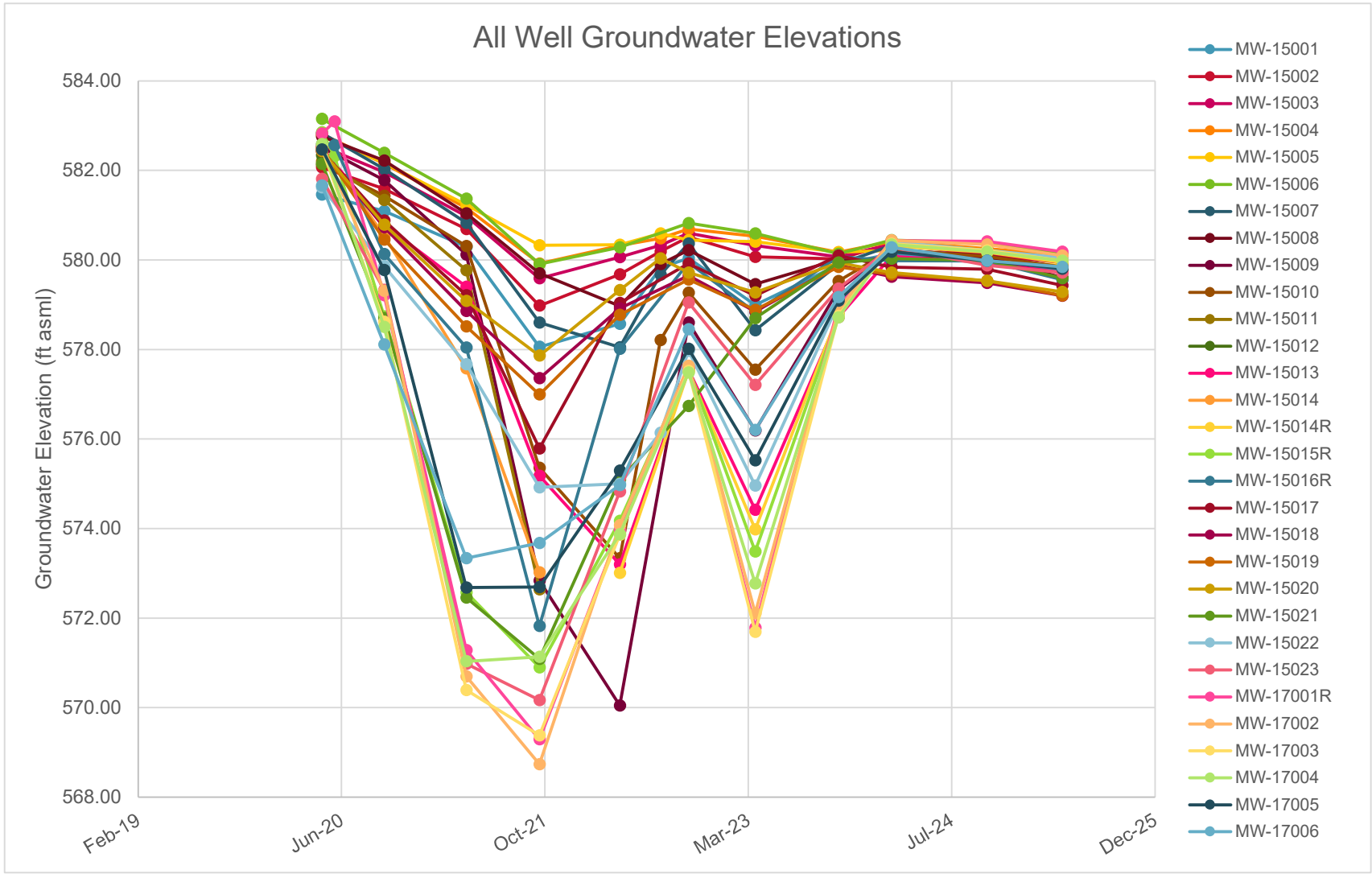


Figure 3. Groundwater Elevations in Impoundment Monitoring Wells

Table 3. Groundwater elevations measured in 2025

Well ID	TOC Elevation (ft amsl)	Groundwater Elevation (ft amsl) Week of April 22, 2025
MW-15001	586.52	579.75
MW-15002	586.87	579.94
MW-15003	587.12	580.04
MW-15004	590.57	580.11
MW-15005	587.77	579.87
MW-15006	587.81	580.14
MW-15007	587.43	579.95
MW-15008	587.76	579.60
MW-15009	589.27	579.83
MW-15010	588.11	579.84
MW-15013	590.00	579.71
MW-15014R	589.70	579.94
MW-15015R	586.52	580.00
MW-15016R	586.62	579.55
MW-15017	586.33	579.43
MW-15018	586.33	579.20
MW-15019	586.32	579.21
MW-15020	586.26	579.29
MW-15021	593.73	579.59
MW-15022	595.82	580.05
MW-15023	588.08	579.72
MW-17001R	586.61	580-18
MW-17002	586.26	580.10
MW-17003	586.31	579.98
MW-17004	586.27	579.99
MW-17005	586.33	579.80
MW-17006	593.78	579.84

Note: MW-15001 is measured for water level only. No samples are collected from MW-15001.

4.2 Water Quality

As stipulated in the CCR Rule, eight rounds of background groundwater sampling were completed by CEC between December 2015 and July 2017. Samples were analyzed for Appendix III and IV parameters, plus TSS. The water quality collected from the monitoring wells located upgradient of the CCR units were compiled and statistically analyzed to develop background threshold values (BTVs) for each constituent of interest (COI) (TRC, 2019). The first detection monitoring event was conducted in September 2017. After reporting SSIs for boron, fluoride, and pH in several wells, BC Cobb moved into assessment monitoring. The first assessment monitoring event was conducted in April 2018 and samples were analyzed for Appendix IV constituents and compared to GPS values. Lithium was found to be present at statistically significant levels (SSL) above the GPS in MW-17001 and MW-17002. This

discovery prompted CCR removal and closure activities as detailed in the Assessment of Corrective Measures and Response Action Plan (TRC, 2019).

Background statistical threshold values were updated in 2024. The statistics and updated background values are documented in the Background Water Quality Statistical Certification dated November 1, 2024. This updated the upper tolerance values (UTLs) for most of the parameters, which resulted in updated GPD values for some constituents. The updated GPS values are provided in **Table 4**.

Table 4. CCR Rule GPS Values

Constituent	Units	Maximum Contaminant Level	Background Concentrations (UTL)[1]	CCR Rule GPS
Antimony	ug/L	6.0	1.4	6.0
Arsenic	ug/L	10	18	18
Barium	ug/L	2,000	270	2,000
Beryllium	ug/L	4.0	1.2	4.0
Cadmium	ug/L	5.0	0.22	5.0
Chromium	ug/L	100	3.7	100
Cobalt	ug/L	6.0*	1.2	6.0
Fluoride	ug/L	4,000	1,400	4,000
Lead	ug/L	15	2.0	15
Lithium	ug/L	40*	48	48
Mercury	ug/L	2.0	0.20	2.0
Molybdenum	ug/L	100*	9.7	100
Radium-226/228	pCi/L	5.0	3.74	5.0
Selenium	ug/L	50	3.3	50
Thallium	ug/L	2.0	0.19	2.0

*EPA adopted health-based value in place of MCL.
1 Background values updated in 2024.

In April 2025, assessment monitoring samples were collected from the certified monitoring well network wells and all samples were analyzed for Appendix III and Appendix IV COIs plus Michigan Part 115 constituents. Water quality data tables are included in **Appendix B** and laboratory reports are provided in **Appendix C**. In accordance with CCR Rule §257.95(e), downgradient concentrations from the April 2025 assessment monitoring event were compared against background values, and some concentrations were found to be above background values. In accordance with CCR Rule §257.95(f), detected Appendix IV COI concentrations in downgradient wells were compared against GPS and were found to exceed GPS. Wells in **Table 5** had concentrations of one of more COIs that exceeded GPS during the April 2025 sampling event and are considered one-time exceedances (SSLs above GPS are addressed separately).

Table 5. April 2025 Exceedances of Federal GPS

March 2024 Sampling Event	Arsenic	Lithium	Molybdenum
Federal GPS	**18.0 (ug/L)**	**48.0 (ug/L)**	**100 (ug/L)**
MW-15012	--	--	245
MW-15015R	55	67	140
MW-15022	--	53	--
MW-15023	--	67	--
MW-17001R	--	77	--
MW-17002	90	240	770
MW-17003	180	360	--
MW-17004	--	71	--

Therefore, in accordance with CCR Rule §257.95(g), downgradient well concentrations were statistically evaluated to determine “if one or more constituents in appendix IV to this part are detected at SSL above the groundwater protection standard.” To determine if an exceedance of a GPS was statistically significant, the 95% lower confidence limit (95 LCL) was calculated for each of the downgradient wells for each of the Appendix IV COIs. The LCL results that exceeded their respective GPS are provided in **Table 6.** Downgradient wells MW-17001R and MW-17002 had SSLs of lithium over the GPS. Downgradient wells MW-17002 and MW-17003 had SSLs of arsenic over the GPS. These are the first instances of an SSL of arsenic in MW-17002 and MW-17003.

Table 6. LCLs for Appendix IV Constituents for Wells with SSLs over GPS in April 2025

Appendix IV Constituent		Arsenic	Lithium
Units		**ug/L**	**ug/L**
GPS		**18.0**	**48.0**
April 2025 95% LCL	MW-17001R	---	52
	MW-17002	25	130
	MW-17003	20	---

5.0 Remedy Selection Progress Update

This section provides the semi-annual progress report describing the progress towards remedy selection for the ash impoundments in accordance with §257.97(a). Semiannual progress reports will be prepared and posted to the CCR website until a remedy is selected and documented in a final report.

5.1 Source Control

A Closure Plan prepared and certified by Golder Associates, Inc. was placed in CEC's Operating record and provided formal Notification of Intent to Initiate Closure on March 30, 2018, which confirmed that CEC planned to close the BCC Ponds under the CCR Rule's closure by removal provision in §257.102(c). A closure work plan was also submitted by CEC to the Michigan Department of Environment, Great Lakes, and Energy (EGLE), who approved it on October 16, 2018 and clarified the workplan on August 13, 2018 and September 20, 2019. MERG acquired the property on April 16, 2020 to complete the CCR ash removal. Upon acquisition, MERG immediately initiated closure commencement activities. MERG began excavating the CCR material from the impoundments in August 2020 to April 2022.

The CCR Removal Report was submitted to EGLE on September 19, 2022. Supplement No. 1 to this report was submitted to EGLE on December 7, 2022 detailing additional excavation and verification sampling at locations that did not meet verification requirements. On April 11, 2023, MERG received a letter from EGLE concurring that MERG followed the CCR Removal Work Plan and documented the removal of the discreet amount of waste using multiple lines of evidence as required by the work plan.

As described in the 2023 Semiannual Update for Selection of Remedy, sloughing on the interior slope of the North Embankment was observed in January 2023 (HDR, 2023a). CCR Removal Report Supplement No. 2 was submitted on June 8, 2023 detailing reverification at locations potentially impacted by the sloughing of the North Embankment. At the request of EGLE, Supplement No. 3 was submitted on December 7, 2023 detailing reverification at locations along the Southern and Western Perimeter Embankments that experienced minor sloughing. At each of these phases, MERG has held meetings with EGLE and each of these supplements and associated reverifications have been in coordination with EGLE. On February 20, 2024, EGLE approved Supplement No. 3 of the CCR Removal Report.

5.2 Progress Towards Remedy Selection

An Assessment of Corrective Measures (ACM) was submitted to EGLE on September 11, 2019 (TRC, 2019). MERG intends to follow the ACM for the Site, and follow the adaptive management strategy, which includes measures to remove source material, reduce infiltration, and minimize the potential for future migration.

As described above, source removal efforts at Site were completed in April 2022 and dewatering was ceased in June 2022. Based on the potentiometric contours of deep monitoring wells of 2024, provided in **Appendix A,** the hydraulic gradient has equilibrated. The reduction of hydraulic loading and recharge of the aquifer are changing groundwater redox conditions and the physical removal of CCR is further changing groundwater quality. Some of the increases of

metals, like arsenic, are assumed to be temporary in response to construction stirring of the sediments and subsurface material as wells as exposing subsurface, non-CCR material like the wood chips in the southwestern corner of the impoundments to oxygen temporarily during ash removal and embankment sloughing repairs. Groundwater quality is anticipated to improve as a result of CCR removal. Future groundwater statistical evaluations, once eight samples have been collected after CCR removal, will compare upper confidence limits to GPS to begin to evaluate if there is a statistical downward trend in the UCL at wells with exceedances.

Beginning in 2024 and in the first half of 2025, MERG has been evaluating the means and methods to remove the containment berms that contain CCR at the site as directed by EGLE. There are numerous complications with this approach that include working with the U.S. Army Corp of Engineers, coordination with Muskegon County to remove a force main, and coordination with CEC because a large transmission power supply to North Muskegon would need to be moved. Additionally, removal of the embankments separating the former impoundment and the Muskegon River would remove monitoring of groundwater. These and other complicating factors will take time to evaluate and are underway.

Further field investigation is underway regarding the woody debris characterization and in-situ conditions that will be used to determine the limits of removal during the berm removal process. MERG will amend the approved 2018 Closure Plan to address the work noted for submission to EGLE by the end of September 2025. Permitting for the job is anticipated to take 12 to 14 months, and work to remove the berm and other materials (if required) is expected to begin in the second quarter of 2027.

Additionally, MERG will continue executing the self-implementing groundwater compliance schedule in conformance with §257.90 - §257.98, which includes semiannual assessment monitoring in accordance with §257.95 to monitor groundwater conditions and inform the remedy selection. The final remedy will be formally selected per §257.97 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 §257.96(e).

6.0 Summary

The following observations are based on CCR Rule compliance groundwater monitoring program development during the first half of 2025:

- The wells of the certified well network were sampled in April 2025 for the assessment monitoring event. Assessment monitoring data was statistically evaluated, and SSLs above GPS were observed at MW-17001R and MW-17002 for lithium and at MW-17002 and MW-17003 for arsenic.
- The CCR status at the end of June 2025 is assessment monitoring and evaluation of potential remedies.

MERG has completed source removal; therefore, evaluation of potential remedies includes: 1) whether clean closure criteria in groundwater have been met, 2) if the data trend indicates that MNA in addition to the source removal will be an effective remedy, or 3) if additional evaluation of enhanced MNA or other remedies is warranted.

MERG has been evaluating the means and methods to remove the containment berms that contain CCR at the site as directed by EGLE, and coordinating with the numerous agencies involved, including the U.S. Army Corp of Engineers. Further field investigation is underway regarding the woody debris characterization and in-situ conditions that will be used to determine the limits of removal during the berm removal process. Additionally, MERG will continue executing the self-implementing groundwater compliance schedule in conformance with §257.90 - §257.98, which includes semiannual assessment monitoring in accordance with §257.95 to monitor groundwater conditions and inform the remedy selection.

The final remedy will be formally selected per §257.97 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 §257.96(e).

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

- Continued semiannual groundwater assessment monitoring.
- Evaluating the means, methods, and permitting for containment berm removal and coordination with agencies.
- Woody debris characterization and in-situ condition assessment.

7.0 References

Arcadis, 2016. Summary of Monitoring Well Design, Installation, and Development. May 13, 2016.

CEC, 2019. Notification of Appendix IV Constituent Exceeding Groundwater Protection Standard per §257.95(g). January 14, 2019.

TRC, 2019. Assessment of Corrective Measures Report. September 11, 2019.

HDR, 2020. Groundwater Level Monitoring Standard Operating Procedure. July 8, 2020.

HDR, 2022. CCR Removal Report. September 19, 2022.

HDR, 2022a. CCR Removal Report Supplement No. 1. December 7, 2022.

HDR, 2023. CCR Removal Report Supplement No. 2. June 8, 2023.

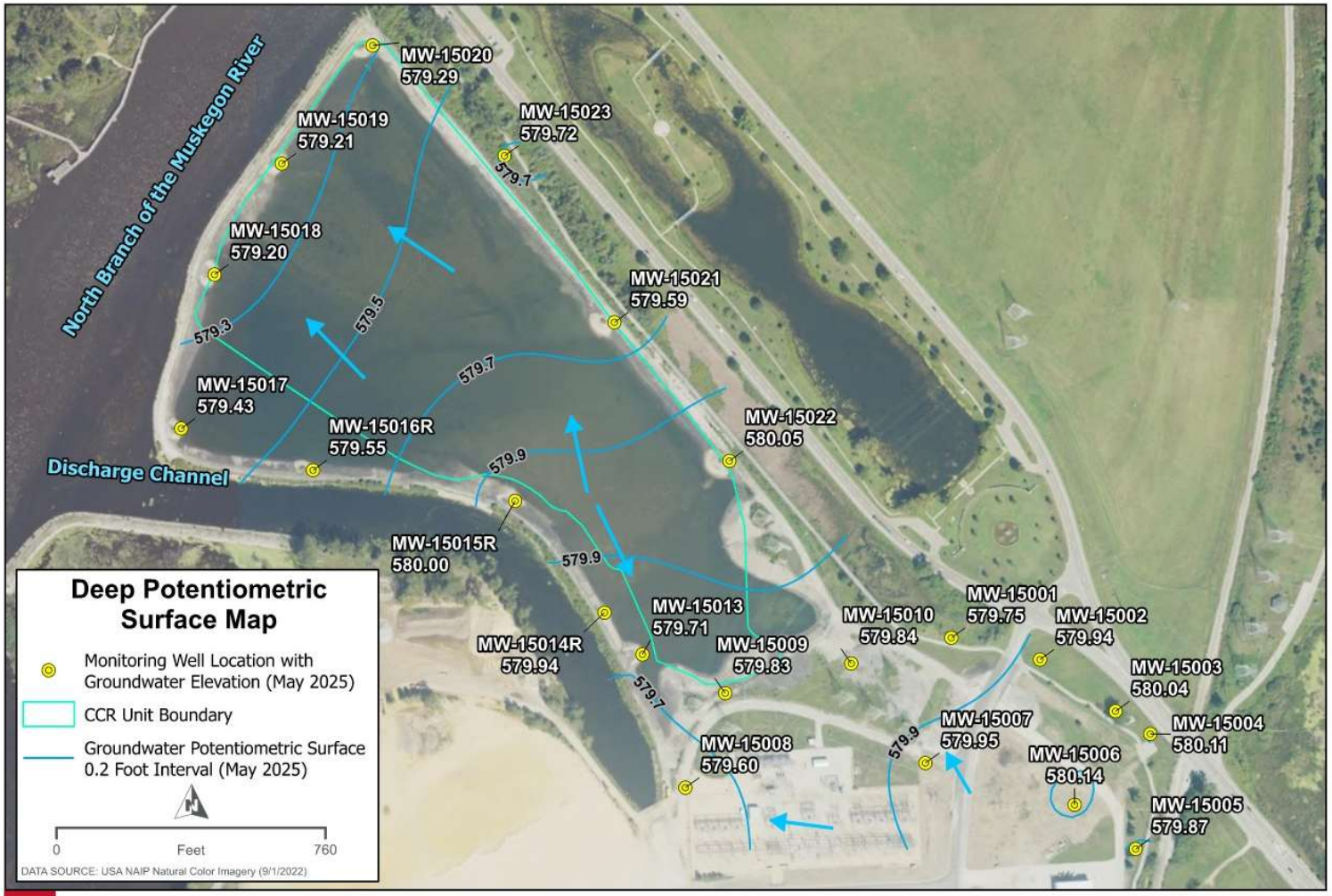
HDR, 2023a. Semiannual Update for Selection of Remedy per §257.97(a). July 21, 2023.

HDR, 2023b. CCR Removal Report Supplement No. 3. December 7, 2023.

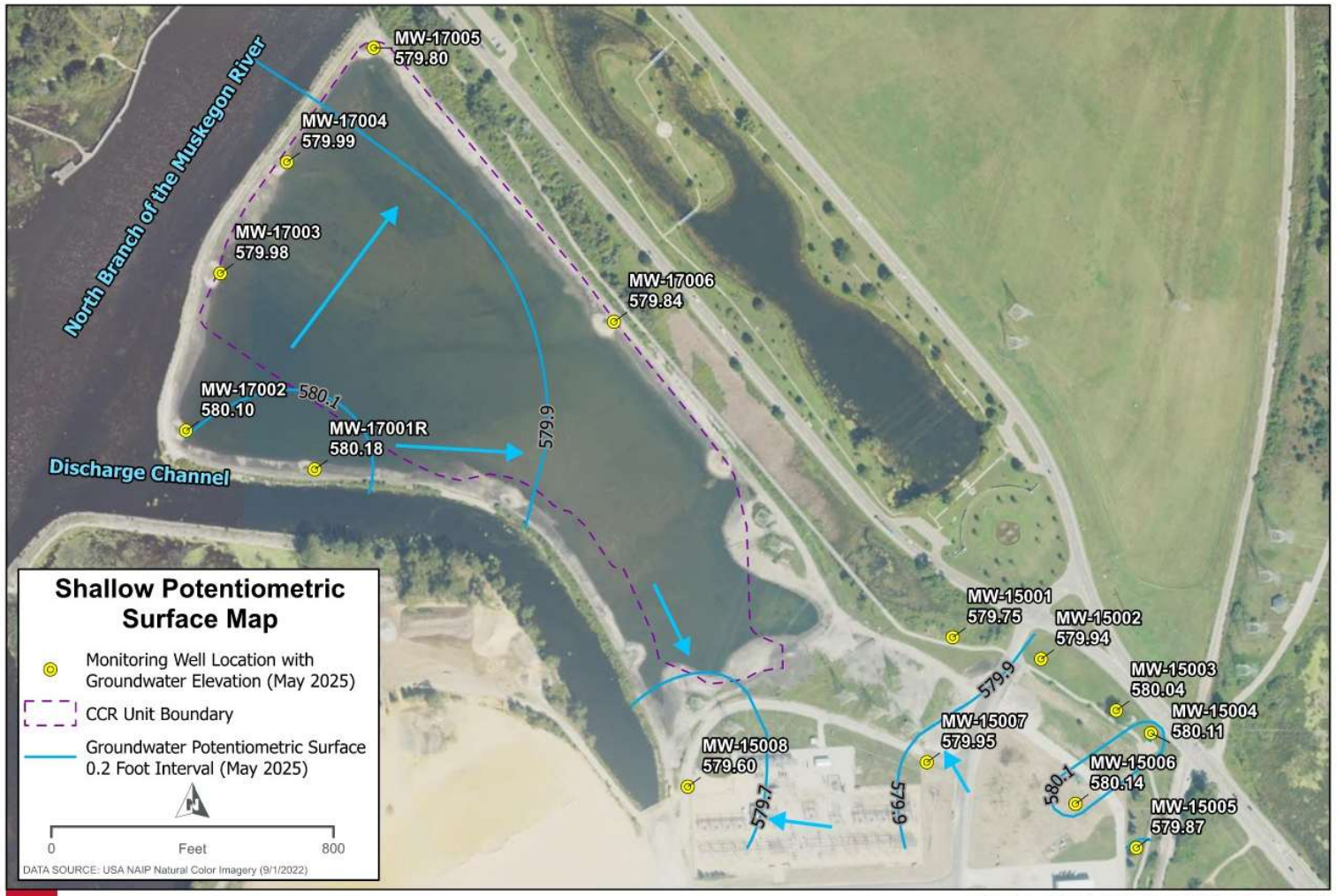
HDR, 2024. 2024 Annual Inspection Report. May 17, 2024.

Appendix A

Potentiometric Surface Maps



FORMER BC COBB POWER PLANT
MUSKEGON COUNTY, MICHIGAN



FORMER BC COBB POWER PLANT
MUSKEGON COUNTY, MICHIGAN

Appendix B

Lab Results Summary Tables

									Sample Location:	MW-15001							
									Compliance Phase:	Background Monitoring							
									Sample Dates:	11/30/2015	2/17/2016	4/12/2016	7/12/2016	9/27/2016	2/13/2017	4/4/2017	7/11/2017
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Background							
Field Parameters																	
pH	su	--	--	--	--	--	--	--	--	6.96	7.0	7.1	7.1	6.7	6.9	7.0	6.92
Conductivity	µS/cm	--	--	--	--	--	--	--	--	884	859	802	766	880	780	848	721
Turbidity	NTU	--	--	--	--	--	--	--	--	0.94	2.4	5.6	4.5	<1	5.5	<1	3.94
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.09	0.8	0.5	0.4	0.4	0.5	0.1	0.11
Temperature	°C	--	--	--	--	--	--	--	--	13.12	8.4	9.3	15.4	12.7	11.2	10.7	14.60
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-139.3	-92.3	-66.1	-162.2	-83.1	-93.6	-94.8	-110.8
Appendix III																	
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	5	1,120	1,290	1,310	1,290	1,010	1,060	1,080	1,100
Calcium	mg/L	NC	NC	NC	500	259	259	500	1	118	129	105	113	130	105	107	91.1
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5	35.0	22.4	21.3	19.7	19.9	23.2	22.3	27.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
pH, Field	SU	6.5 - 8.5	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	--	--	--	0.1	6.96	7.0	7.1	7.1	6.7	6.9	7.0	6.92
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	67.0	46.2	33.8	33.5	35.6	41.9	37.0	44.8
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10	580	520	460	470	520	470	470	526
Appendix IV																	
Antimony	ug/L	6	6	6	130	6	1	6	1	<1	<1	<1	<1	<1	<1	<1	<1.0
Arsenic	ug/L	10	**10**	**10**	**10**	**10**	**10**	**10**	1	<1	<1	<1	<1	<1	<1	<1	<1.0
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1	127	118	114	98	116	102	105	109
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	<1	<1	<1	<1	<1	<1	<1	<1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	<1	1	3	2	<1	1	1	<1.0
Cobalt	ug/L	6	40	100	100	15	15	15	15	<15	<15	<15	<15	<15	<15	<15	<15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Lead	ug/L	15	4	4	29	15	2	4	1	<1	<1	<1	<1	<1	<1	<1	<1.0
Lithium	ug/L	40	170	350	440	40	28	40	10	32.2	32.2	31	30	30	28	27	32
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5	<5	<5	<5	<5	<5	<5	<5	<5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.366	0.387	0.312	0.255	0.311	0.297	<0.276	<0.948
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A	1.54	0.963	1.23	1.39	<1.11	1.55	0.885	<1.80
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.17	<0.812	0.921	1.13	<1.11	1.25	0.610	<0.855
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1	<1	<1	<1	1	<1	<1	<1	<1.0
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.5	<2	<2	<2	<2	<2	<2	<2	<2.0

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 8/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)
Field Parameters																			
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	25.0	8.8	8.8	8.8	8.8	8.8	8.8	44	44	88
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	0.26	2.6	2.6	2.6	2.6	1.3	1.3	2.6
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	2.5	0.1	7.5	7.5	7.5	15	15	7.5	7.5	3.8
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	150	100	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	0.10	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3	3	3	3	3	3	30	3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	20	20	20	20	20	20	40
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Barium	ug/L	2,000	2,000	2,000	**690**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	2.5	12	12	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	150.0	100	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	12	2.5	2.5	2.5	12	12	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.304	1.0	0.37	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.11	1.0	0.59	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.804	1.0	0.59	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	8.0	8.0	8.0	4.0	4	8
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	50	50	250	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	0.25	1.2	6.2	6.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.05	0.25	0.25	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 10/2024)	RDL (Trace 04/2025)	Sample Location:									
												Compliance Phase:	Background Monitoring							Detection	Initial A.M.
												Sample Dates:	11/30/2015	2/17/2016	4/12/2016	7/12/2016	9/27/2016	2/13/2017	4/4/2017	7/11/2017	9/14/2017	4/19/2018
Field Parameters																					
pH	su	--	--	--	--	--	--	--	--	--	--		6.74	7.1	7.0	7.0	7.0	7.2	7.2	7.11	7.2	7.5
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--		3,401	3,114	3,693	3,087	2,003	1,784	2,072	2,479	1,338	1,318
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--		1.72	<1	<1	<1	<1	<1	<1	<1	2.33	0.8
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--		0.14	0.2	0.3	0.4	0.4	0.5	0.6	0.10	0.21	0.25
Temperature	°C	--	--	--	--	--	--	--	--	--	--		12.52	9.6	10.5	17.0	14.1	11.4	10.2	14.21	14.73	10.8
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--		-129.4	-82.0	-82.9	-43.4	-50.5	-77.4	-59.8	-11.0	56.4	-7.1
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	88	8.8		**1,320**	1,200	1,050	834	979	1,110	1,170	988	1,130	--
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	2.6	1.3		214	259	197	169	165	184	167	185	132	--
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	7.5	7.5		720	519	681	577	328	226	354	472	152	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	200		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--		6.74	7.1	7.0	7.0	7.0	7.2	7.2	7.11	7.2	7.5
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6	1		250	**327**	**300**	202	127	116	85.6	113	13.8	--
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	48	40		1,900	1,900	1,900	1,800	1,100	1,100	1,200	1,500	772	--
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55		10	4	2	2	1	1	<1	<1	--	< 1.0
Barium	ug/L	2,000	2,000	2,000	**690**	2,000	**270**	**690**	1	2.5	2.5		274	257	252	232	148	134	146	186	--	79.4
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25		1	2	3	2	<1	2	2	<1	--	< 1.0
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52		<15	<15	<15	<15	<15	<15	<15	<15.0	--	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	200		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	0.55		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5	2.5		<10	<10	<10	<10	<10	<10	<10	11	--	< 10
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	1.2		<5	<5	<5	<5	<5	<5	<5	<5	--	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0		0.816	0.600	0.893	0.641	<0.254	0.419	0.387	<0.912	--	0.586
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0		3.03	2.03	2.32	1.88	<0.927	1.41	1.79	2.20	--	< 1.16
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0		2.21	1.43	1.43	1.24	<0.927	0.995	1.40	1.49	--	< 0.685
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5		1	<1	<1	1	<1	<1	1	1	--	< 1.0
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	0.38		<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	8	4		--	--	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25		--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	50	50		--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05		--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	--

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	MW-15002												
										Assessment Monitoring												
										6/14/2018	11/28/2018	4/8/2019	9/25/2019	5/4/2020	10/26/2020	4/19/2021	10/19/2021	5/5/2022	8/11/2022	10/21/2022	4/11/2023
										Background												
Field Parameters																						
pH	su	--	--	--	--	--	--	--	--	7.4	7.2	7.1	7.3	7.23	7.50	6.99	7.18	7.16	6.88	7.29	7.33
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,014	1,314	1,054	1,610	781	650	930	1,390	2,260	2,180	1,910	1,690
Turbidity	NTU	--	--	--	--	--	--	--	--	1.6	0.67	6.7	0.88	186.95	1.19	0.02	0.02	1.22	0.02	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.3	0.42	0.2	0.43	0.17	0.08	0.2	0.09	0.28	1.04	0.03	0.11
Temperature	°C	--	--	--	--	--	--	--	--	16.2	11.64	10.9	14.9	11.1	13.2	11.1	13.8	10.9	12.3	12.1	10.9
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	18.4	61.4	-58.6	-96	131.4	-105.7	105.2	-75.7	-246.3	-186.5	-129.6	-244
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	422	434	420	360	295	270	250	1,200	**5,400**	**4,900**	**4,900**	**4,900**
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	95.6	103	130	120	115	85	78	120	160	160	170	160
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	115	161	170	300	54.5	34	120	240	480	410	550	260
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 1,000	< 1,000	< 1,000	< 1,000	670	710	530	240	280	310	280	240
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.4	7.2	7.1	7.3	7.8	7.50	7.3	7.18	7.14	7.35	7.29	7.33
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	3.0	< 2.0	< 2.0	< 20	0.068	< 0.6	3.6	< 3	24	13	4.8	26
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	738	644	790	870	442	510	550	870	1,300	1,200	1,500	990
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8
Barium	ug/L	2,000	2,000	2,000	**690**	2,000	**270**	**690**	1	79.6	76.0	100	100	68.0	66	65	120	130	150	160	120
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	--	0.027	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.0	< 1.0	< 1.0	< 1.0	0.37	0.32	0.97	1.3	0.26	0.55	0.29	< 1.2
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 15.0	< 6.0	< 6.0	--	0.2	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 1,000	< 1,000	< 1,000	< 1,000	670	710	530	240	280	310	280	240
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	< 10	< 10	< 10	< 10	6	4.3	< 1.2	< 12	13	23	33	31
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.482	< 0.719	0.391	0.380	0.138	0.31	0.33	0.26	-0.01	0.58	0.03 U	0.114 U
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.60	< 1.58	0.499	1.14	1.27	< 1	< 0.59	0.26	0.73	0.84	1.62	0.201 U
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.24	1.10	< 0.481	0.760	1.14	-0.04	-0.35	0.34	0.73	0.694	1.59	0.0873 U
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	< 2.5	< 4	< 4	< 8	< 8	< 4	< 8	< 4
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	< 1.0	1.4	0.94	< 0.25	< 0.25	< 0.25	< 1.2
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	250	**320**	**460**	280	150	97	210
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	< 50	< 0.25	0.45	< 0.25	< 0.25	< 1.2	< 6.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	< 10	3.1	8.7	< 1.2	< 1.2	< 1.2	12

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	10/2/2023	10/2/2023	3/28/2024	10/22/2024	4/24/2025
Field Parameters											Field Dup			
pH	su	--	--	--	--	--	--	--	--	7.33	7.33	7.47	7.25	7.22
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,910	1,910	1,840	2,350	2,490
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	0.02	0.02	0.02	0.61
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	4.22	4.22	0.01	0.19	0.18
Temperature	°C	--	--	--	--	--	--	--	--	13.6	13.6	10.8	14.7	12.2
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-213	-213	117.8	-27.5	-14.6
Appendix III														
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	**4,800**	**4,800**	**3,800**	**3,300**	**2,700**
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	210	220	180	160	160
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	270	270	340	480	570
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	210	210	360	<200	270
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.33	7.33	7.47	7.25	7.22
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	220	220	30	<6	0.25
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	1,200	1,200	1,100	1,300	1,500
Appendix IV														
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 2.8	< 2.8	0.12	0.18	0.16
Barium	ug/L	2,000	2,000	2,000	**690**	2,000	**270**	**690**	1	160	160	130	140	140
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.2	< 1.2	0.34	0.61	0.67
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 2.6	< 2.6	0.11	0.39	0.17
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	210	210	360	< 200	270
Lead	ug/L	15	4	4	29	15	2	15	1	< 2.8	< 2.8	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	38	39	34	27	25
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 6.2	< 6.2	< 1.2	3	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.442	0.356	0.36	0.86	0.556
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.05	1.05	0.871	0.86	2.12
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.607	0.691	0.511[U]	0.14	1.56
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 2.5	< 2.5	< 0.5	0.12	0.11
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 1.9	< 1.9	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	< 4	< 4	< 8	< 4.0	5
Michigan CCR														
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	< 250	< 250	52	190	230
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 6.2	< 6.2	< 1.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.25	< 0.25	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 6.2	< 6.2	< 1.2	1.5	1.4
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	12	12	< 1.2	< 1.2	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L).	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 8/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	25.0	8.8	8.8	8.8	8.8	8.8	8.8	44	44
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.0	0.3	2.6	0.26	2.6	2.6	2.6	1.3	1.3
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	25.0	0.1	15	1.5	7.5	15	15	7.5	7.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	150	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	0.10	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3	3	3	3	3	3	3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	20.0	10.0	20	20	20	20	20	20	20
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	0.25	1.2	1.2
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	0.55	2.8	2.8
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	2.5	12	12
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	0.25	1.2	1.2
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	0.25	1.2	1.2
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	0.25	1.2	1.2
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	0.52	2.6	2.6
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	150	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	0.55	2.8	2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	2.5	12	12
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	1.2	6.2	6.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.204	1.0	0.34	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	0.974	1.0	0.52	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.77	1.0	0.52	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	0.5	2.5	2.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	0.38	1.9	1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4	8	8.0	5.3	8.0	4.0	4
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	0.25	1.2	1.2
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	50	250	250
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	0.25	1.2	6.2	6.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.05	0.25	0.25
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	1.2	6.2	6.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	1.2	6.2	6.2

												Sample Location:							
												Compliance Phase:	Background Monitoring						
												Sample Dates:	11/30/2015	2/17/2016	4/12/2016	7/12/2016	9/27/2016	2/13/2017	4/4/2017	7/12/2017
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L).	RDL (Most Common from Previous Data	RDL (Trace 03/2024)	RDL (Trace 10/2024)	RDL (Trace 04/2025)								
Field Parameters																				
pH	su	--	--	--	--	--	--	--	--	--	--	--	7.24	7.1	7.2	7.1	7.1	7.4	7.3	7.07
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	2,957	3,291	2,991	2,796	2,749	2,438	2,349	1,803
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	5.1	<1	<1	<1	<1	2.1	1.6	5.79
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	2.32	0.3	0.3	0.3	0.4	0.4	0.0	0.15
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	11.24	7.5	9.8	15.5	14.3	9.9	9.2	14.60
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	34.1	-76.2	-51.2	-119.9	-67.8	-82.6	-107.0	-87.2
Appendix III																				
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	88	8.8	8.8	542	574	2,370	528	494	608	679	695
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	2.6	0.26	1.3	216	233	180	177	179	163	167	154
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	3.8	3.8	3.8	700	682	640	581	512	456	363	293
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	200	200	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--	--	7.24	7.1	7.2	7.1	7.1	7.4	7.3	7.07
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	3	6.0	1	46.0	48.7	41.2	28.3	27.2	20.1	16.7	6.8
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	40	50	40	1,900	1,900	1,700	1,600	1,500	1,400	1,200	1,110
Appendix IV																				
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55	0.55	2	<1	<1	1	<1	<1	<1	<1
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	2.5	2.5	236	219	189	170	159	137	138	112
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25	0.25	<1	2	2	2	1	1	1	1
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52	0.52	<15	<15	<15	<15	<15	<15	<15	<15
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	200	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	0.55	0.55	<1	<1	<1	<1	<1	<1	<1	<1
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5	2.5	2.5	<10	<10	<10	<10	<10	<10	<10	11
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	1.2	1.2	<5	<5	<5	<5	<5	<5	<5	<5
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	1.0	0.667	0.633	0.522	0.387	0.284	0.350	0.442	0.442
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0	1.0	2.40	1.30	1.39	1.66	1.53	1.58	1.25	<1.03
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	1.0	1.73	0.664	0.870	1.27	1.25	1.23	0.807	<0.858
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5	0.5	2	<1	<1	1	<1	<1	1	1
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	0.38	0.38	<2	<2	<2	<2	<2	<2	<2	<2
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4	4.0	4.0	--	--	--	--	--	--	--	--
Michigan CCR																				
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25	0.25	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	50	50	50	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2	1.2	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05	0.05	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2	1.2	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2	1.2	--	--	--	--	--	--	--	--

										MW-15003													
										Detection Monitoring		Initial A.M.	Assessment Monitoring										
										9/14/2017	2/21/2018	4/19/2018	6/14/2018	11/28/2018	4/8/2019	9/25/2019	5/4/2020	10/26/2020	4/19/2021	10/19/2021	5/6/2022	8/11/2022
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L).	RDL (Most Common from Previous Data	Background													
Field Parameters																							
pH	su	--	--	--	--	--	--	--	--	7.1	7.3	7.5	7.3	7.2	7.2	7.3	7.24	7.44	7.21	7.15	6.85	6.30
Conductivity	µS/cm	--	--	--	--	--	--	--	--	2,151	--	3,911	3,522	3,225	1,549	2,760	3,125	2,230	1,890	790	2,050	3,130
Turbidity	NTU	--	--	--	--	--	--	--	--	<1	--	2.5	2.3	2.16	5.1	0.99	2.11	0.02	0.02	0.26	3.26	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.21	--	0.23	0.28	0.28	0.04	0.3	0.22	0.08	0.16	0.1	0.48	0.38
Temperature	°C	--	--	--	--	--	--	--	--	14.13	--	8.9	14.2	11.54	8.6	14.3	8.9	13.3	9.2	15.1	9.0	13.1
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	69.1	--	-28.9	14.5	60.3	-67.5	-110.5	90.9	-110.0	48.2	-70	-23.6	-63.0
Appendix III																							
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	361	--	--	290	313	390	230	259	310	280	400	580	630
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	145	--	--	148	129	100	150	149	140	110	82	170	200
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	493	--	--	917	737	360	670	742	480	350	68	480	740
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 1,000	--	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	360	380	370	340	270	290
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.1	7.3	7.5	7.3	7.2	7.2	7.3	7.7	7.44	7.21	7.15	6.84	6.88
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 20	4.5	< 0.6	< 3	< 3	< 3	< 3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	1,370	--	--	2,060	1,550	1,100	1,400	1,660	1,400	1,100	420	1,200	2100
Appendix IV																							
Antimony	ug/L	6	6	6	130	6	1.4	6	1	--	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	--	--	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	--	--	151	139	108	79	110	119	97	75	43	150	250
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	--	--	< 1.0	< 1.0	< 1.0	< 1.0	--	0.025	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	--	--	< 0.20	< 0.20	< 1.0	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	--	--	< 1.0	< 1.0	< 5.0	1.0	< 1.0	0.51	0.52	0.73	0.39	0.38	0.54
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	--	--	< 15.0	< 15.0	< 30.0	< 6.0	--	0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 1,000	--	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	360	380	370	340	270	290
Lead	ug/L	15	4	4	29	15	2	15	1	--	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	--	--	12	12	11	< 10	< 10	8.1	4.2	< 1.2	< 1.2	11	16
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	--	--	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	--	--	< 5.0	< 5.0	< 25.0	< 5.0	< 5.0	<0.13	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	--	--	0.707	0.573	< 0.862	0.194	< 0.267	0.269	0.47	0.36	0.11	0.18	0.444
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	--	--	1.81	1.86	1.85	< 0.696	1.58	0.269	1.03	< 0.52	0.96	< 1	0.66
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	--	--	1.10	1.29	1.13	< 0.696	1.33	-0.191	0.56	0.15	0.96	-0.02	0.669
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	--	--	--	< 2.5	< 4	< 4	< 8	< 8	< 5.3
Michigan CCR																							
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	--	--	< 1	< 0.25	< 0.25	< 0.25	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	--	--	--	**690**	**620**	**410**	**1,200**	**1,500**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	--	--	< 50	< 0.25	< 0.25	< 0.25	< 0.25
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L).	RDL (Most Common from Previous Data	10/21/2022	4/11/2023	10/2/2023	3/28/2024	10/22/2024	10/22/2024	4/24/2025
Field Parameters															Field Dup	
pH	su	--	--	--	--	--	--	--	--	6.83	6.82	6.93	7.02	6.93	6.93	6.96
Conductivity	µS/cm	--	--	--	--	--	--	--	--	2,730	2,280	2,090	1,920	1,720	1,720	1,720
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	0.02	0.36	0.02	0.02	0.02	0.94
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.03	0.57	0.24	0.2	0.15	0.15	0.17
Temperature	°C	--	--	--	--	--	--	--	--	13.8	9.8	14.5	9.8	14.8	14.8	10.3
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-74.8	-120.6	-87.5	18.1	-10.1	-10.1	-7.7
Appendix III																
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	640	550	600	440	500	510	480
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	180	150	100	74	88	96	93
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	770	530	500	350	330	330	360
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	330	330	410	580	< 200	< 200	540
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	6.89	6.82	6.93	7.02	6.93	6.93	6.96
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	< 3	< 3	< 3	< 3	< 6.0	< 6.0	<1
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	1800	1,300	1,200	1,000	970	980	980
Appendix IV																
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 0.55	< 2.8	< 2.8	0.16	0.17^{J-}	0.34^{J+}	0.13
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	200	170	110	77	93	97	91
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	< 1.2	< 1.2	< 0.25	0.089	0.11	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25^{UJ}	0.14^{J+}	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	0.44	< 1.2	< 1.2	0.78	0.77	0.97	0.83
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 0.52	< 2.6	< 2.6	0.23	0.18^{J-}	0.65^{J+}	0.16
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	330	330	410	580	< 200^{UJ}	370^{J+}	540
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	< 2.8	< 2.8	< 0.55	< 0.55^{UJ}	0.13^{J+}	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	16	**48**	12	8.4	11	11	10
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 1.2	< 6.2	< 6.2	0.71^{J+}	< 1.2^{J-}	1.1^{J+}	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.84	0.443	0.334	0.194	0.31^{UJ}	0.49^{UJ}	0.339
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	3.74	1.3	0.835	1.14	0.52^{UJ}	0.49^{UJ}	1.03
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	2.9	0.861	0.5^{U}	0.943	0.21^{UJ}	-0.93^{UJ}	0.69
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 0.5	< 2.5	< 2.5	0.11	0.11^{J-}	0.2^{J+}	0.1
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 1.9	< 1.9	0.19^{UJ}	< 0.38^{J-}	0.15^{J+}	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	< 8	< 4	< 4	7.0	< 4.0	< 4.0	< 4.0
Michigan CCR																
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25J^{UJ}	0.56^{J+}	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**1,600**	**1,600**	**1,400**	**940**	**1,300**	**1,400**	**1,300**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2^{UJ}	0.69^{J+}	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.25	< 0.25	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	< 6.2	< 6.2	1.0	1.7	2.0	1.6
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	< 1.2	16	8.5	7.3	< 1.2^{UJ}	4.6^{J+}	< --

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)
Field Parameters																			
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	1,320	5,400	5,400	5,400	5.0	8.8	8.8	8.8	8.8	8.8	44	44	8.8	8.8
Calcium	mg/L	NC	NC	NC	500	259	260	260	500	1.0	0.3	0.26	0.26	2.6	2.6	1.3	1.3	0.26	0.26
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**250**	**2500**	**2,500**	25.0	0.1	1.5	3.8	7.5	15	7.5	7.5	3.8	1.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	4,000	1,400	2,000	100	20.0	200.0	100	100	100	100	100	100	200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	**--**	0.10	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	**250**	200	250	0.25	0.60	6	3	3	3	3	3	3	6.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10.0	10.0	20	20	20	20	20	20	40	48
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	6	1.4	6	1.0	0.3	0.3	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1.0	0.6	0.6	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	2,000	**270**	**690**	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5	2.5
Beryllium	ug/L	4	4	4	6.7	4	4	1.0	4.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	5	0.2	3.1	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Chromium	ug/L	100	100	100	11	100	100	3	11	1.0	0.3	0.3	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cobalt	ug/L	6	40	100	100	15	6	1.2	6	1.0	0.5	0.5	0.52	0.52	0.52	2.6	2.6	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	4,000	1,000	2,000	100	20.0	200.0	100	100	100	100	100	100	200
Lead	ug/L	15	4	4	29	15	15	2	15	1.0	0.6	0.6	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Lithium	ug/L	40	170	350	440	40	40	48	48	20.0	1.2	1.2	5.9	2.5	2.5	2.5	12	2.5	2.5
Mercury	ug/L	2	2	2	0.20#	2	2	0.2	2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	100	9.7	100	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	--	0.25	1.0	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	**5**	3.74	5	1.2	1.0	0.49	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	--	0.954	1.0	0.49	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	50	**3.3**	**5**	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	2	0.2	2.0	1.0	0.4	0.4	0.38	0.38	0.38	1.9	1.9	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	--	5.0	4.0	4.0	8.0	8.0	8.0	4.0	4	4	4.0
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	250	250	50	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 04/2025)											
Sample Location:																					
Compliance Phase:											Background Monitoring								Detection	Initial A.M.	
Sample Dates:											11/30/2015	2/17/2016	4/12/2016	7/12/2016	9/27/2016	2/13/2017	4/4/2017	7/12/2017	9/14/2017	4/19/2018	6/12/2018
Field Parameters																					
pH	su	--	--	--	--	--	--	--	--	--	7.28	7.2	6.9	6.7	6.9	7.1	7.1	6.95	6.8	7.3	7
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	655	556	616	741	688	570	615	648	1,740	957	909
Turbidity	NTU	--	--	--	--	--	--	--	--	--	3.09	2.3	<1	<1	<1	<1	<1	3.08	1.76	2.5	3.6
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	1.64	1.0	0.5	0.3	0.4	0.6	0.6	0.14	0.25	0.37	0.35
Temperature	°C	--	--	--	--	--	--	--	--	--	11.07	7.0	7.6	15.9	16.9	9.0	8.7	15.02	15.57	8.8	17
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	-7.3	41.1	-14.0	-120.7	-69.5	-11.2	-67.3	-39.2	77.4	-29.7	-23.6
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	1,320	5,400	5,400	5,400	8.8	198	124	166	338	279	193	376	302	325	--	269
Calcium	mg/L	NC	NC	NC	500	259	260	260	500	0.26	94.6	80.9	70.7	87.0	81.9	75.1	73.4	67.2	115	--	71.4
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**250**	**2500**	**2,500**	1.5	27.0	18.1	22.0	30.9	22.1	28.2	35.2	45.7	382	--	98.1
Fluoride	ug/L	4,000	NC	NC	NC	4,000	4,000	1,400	2,000	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	**--**	--	7.28	7.2	6.9	6.7	6.9	7.1	7.1	6.95	6.8	7.3	7.0
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	**250**	200	250	6	33.0	17.8	13.6	<2	8.06	7.20	<2	2.9	5.8	--	< 2.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**500**	**4,800**	**4,800**	40	440	340	350	420	380	340	380	450	934	--	506
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	6	1.4	6	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**18**	**18**	0.55	2	1	1	2	7	2	2	3.2	--	1.5	1.1
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	2,000	**270**	**690**	2.5	33	18	29	43	42	29	33	38.4	--	39.4	45.8
Beryllium	ug/L	4	4	4	6.7	4	4	1.0	4.0	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	5	0.2	3.1	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20
Chromium	ug/L	100	100	100	11	100	100	3	11	0.25	<1	1	2	2	1	1	3	<1.0	--	< 1.0	< 1.0
Cobalt	ug/L	6	40	100	100	15	6	1.2	6	0.52	<15	<15	<15	<15	<15	<15	<15	<15	--	< 15.0	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	4,000	1,000	2,000	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
Lead	ug/L	15	4	4	29	15	15	2	15	0.55	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Lithium	ug/L	40	170	350	440	40	40	48	48	2.5	<10	<10	<10	<10	<10	<10	<10	<10	--	< 10	< 10
Mercury	ug/L	2	2	2	0.20#	2	2	0.2	2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	100	9.7	100	1.2	<5	<5	7	<5	<5	<5	<5	<5	--	< 5.0	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	--	1.0	<0.203	<0.216	<0.370	<0.157	<0.292	<0.181	<0.308	<0.654	--	0.602	< 0.728
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	**5**	3.74	5	1.0	1.02	<0.565	0.518	0.808	1.08	1.18	1.02	<1.45	--	1.34	< 1.43
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	--	1.0	0.879	<0.565	0.518	0.768	0.986	1.10	1.02	<0.796	--	< 0.821	< 0.701
Selenium	ug/L	50	50	50	**5**	50	50	**3.3**	**5**	0.5	<1	2	2	<1	<1	<1	1	1	--	< 1.0	< 1.0
Thallium	ug/L	2	2	2	3.7	2	2	0.2	2.0	0.38	<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	--	4.0	--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	50	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--

										MW-15004													
										Assessment Monitoring													
										11/28/2018	4/9/2019	9/25/2019	5/4/2020	10/26/2020	4/19/2021	10/20/2021	5/6/2022	10/21/2022	4/11/2023	10/2/2023	3/28/2024	10/22/2024
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Background													
Field Parameters																							
pH	su	--	--	--	--	--	--	--	--	6.8	7.2	7.3	7.11	7.13	6.9	6.9	6.72	7.09	7.09	7.23	7.05	6.98
Conductivity	µS/cm	--	--	--	--	--	--	--	--	646	342	1,321	920	920	760	990	2,130	2,370	900	1,630	1,180	810
Turbidity	NTU	--	--	--	--	--	--	--	--	0.84	7.9	0.93	10.17	2.16	0.02	0.27	2.49	0.02	0.02	3.95	0.02	2.6
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.4	0.39	0.31	0.78	0.03	0.06	1.2	0.14	0.49	2	0.09	0.47	0.99
Temperature	°C	--	--	--	--	--	--	--	--	11.48	7.3	16	9.0	14.7	9.1	15.8	9.6	15.3	9.3	16	9.2	16.4
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	13.8	0.39	0.31	119.6	-89.5	-45.4	-80.3	-3.8	-84.9	-74.4	-132.7	9.3	-75.1
Appendix III																							
Boron	ug/L	NC	**500**	**500**	7,200	1,320	5,400	5,400	5,400	158	120	270	143	200	130	160	170	190	90	150	100	180
Calcium	mg/L	NC	NC	NC	500	259	260	260	500	69.6	59	95	71	70	77	84	140	140	95	63	70	71
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**250**	**2500**	**2,500**	24	20	240	116	110	70	140	510	640	140	300	190	89
Fluoride	ug/L	4,000	NC	NC	NC	4,000	4,000	1,400	2,000	< 1,000	< 1,000	< 1,000	560	690	1400	490	390	500	490	540	630	180
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	**--**	6.8	7.2	7.0	7.5	7.13	6.9	6.9	7.01	7.09	7.09	7.23	7.05	6.98
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	**250**	200	250	9.1	7.4	< 20	4.3	< 0.6	7.1	< 3	4.3	3.3	5.7	3.9	3.9	3.9
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**500**	**4,800**	**4,800**	342	280	730	500	620	440	490	930	1,500	520	920	650	460
Appendix IV																							
Antimony	ug/L	6	6	6	130	6	6	1.4	6	< 1.0	< 1.0	--	0.2	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	0.11
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**18**	**18**	2.7	2.2	4.7	7.1	4.6	3.3	1.3	1.1	2.0	< 2.8	1.2	0.39	1.3
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	2,000	**270**	**690**	26.3	24	60	45	46	37	54	110	110	50	50	39	40
Beryllium	ug/L	4	4	4	6.7	4	4	1.0	4.0	< 1.0	< 1.0	--	0.027	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	5	0.2	3.1	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	100	3	11	< 1.0	1.0	1.0	0.9	0.49	0.29	0.38	0.39	0.37	< 1.2	< 1.2	0.31	0.51
Cobalt	ug/L	6	40	100	100	15	6	1.2	6	< 6.0	< 6.0	--	0.44	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6	0.12	0.17
Fluoride	ug/L	4,000	NC	NC	NC	4,000	4,000	1,000	2,000	< 1,000	< 1,000	< 1,000	560	690	1,400	490	390	500	490	540	630	180
Lead	ug/L	15	4	4	29	15	15	2	15	< 1.0	< 1.0	--	0.16	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	40	48	48	< 10	< 10	< 10	2.9	1.7	< 1.2	< 5.9	3.1	< 2.5	< 2.5	< 12	< 2.5	2.5
Mercury	ug/L	2	2	2	0.20#	2	2	0.2	2	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	100	9.7	100	< 5.0	< 5.0	< 5.0	1.5	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	1.2	0.77
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	--	< 0.798	0.149	0.383	0.159	0.08	0.48	0.32	0.31	0.29	0.0581[U]	0.123[U]	0.139	-0.07[U]
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	**5**	3.74	5	< 1.58	< 0.588	1.09	0.433	0.63	1	0.92	< 1	2.8	0.57[U]	0.85	0.573[U]	0.64[U]
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	--	< 0.786	< 0.588	0.705	0.274	0.55	0.52	0.6	0.63	2.51	0.512[U]	0.727[U]	0.434[U]	0.88
Selenium	ug/L	50	50	50	**5**	50	50	**3.3**	**5**	< 1.0	< 1.0	< 1.0	0.53	< 0.5	< 0.5	< 0.5	0.73	0.68	< 2.5	< 2.5	0.53	0.24
Thallium	ug/L	2	2	2	3.7	2	2	0.2	2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	--	--	--	--	10	< 4	< 4	< 8	< 8	< 8	< 4	< 4	< 4	< 4.0
Michigan CCR																							
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	< 1	< 0.25	< 0.25	0.73	0.34	1.5	< 1.2	0.48	0.29
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	**1,600**	**2,200**	**1,500**	**3,300**	**2,700**	**1,100**	**1,500**	**1,000**	**1,800**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	< 50	< 0.25	< 0.25	0.35	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	< 10	< 1.2	< 1.2	1.3	< 1.2	< 6.2	< 6.2	3.7	2.5

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	4/24/2025
Field Parameters										
pH	su	--	--	--	--	--	--	--	--	6.91
Conductivity	µS/cm	--	--	--	--	--	--	--	--	700
Turbidity	NTU	--	--	--	--	--	--	--	--	1
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.25
Temperature	°C	--	--	--	--	--	--	--	--	10
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-61.9
Appendix III										
Boron	ug/L	NC	**500**	**500**	7,200	1,320	5,400	5,400	5,400	120
Calcium	mg/L	NC	NC	NC	500	259	260	260	500	71
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**250**	**2500**	**2,500**	73
Fluoride	ug/L	4,000	NC	NC	NC	4,000	4,000	1,400	2,000	550
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	**--**	6.93
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	**250**	200	250	4.7
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**500**	**4,800**	**4,800**	400
Appendix IV										
Antimony	ug/L	6	6	6	130	6	6	1.4	6	0.12
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**18**	**18**	0.49
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	2,000	**270**	**690**	36
Beryllium	ug/L	4	4	4	6.7	4	4	1.0	4.0	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	5	0.2	3.1	< 0.25
Chromium	ug/L	100	100	100	11	100	100	3	11	0.39
Cobalt	ug/L	6	40	100	100	15	6	1.2	6	0.14
Fluoride	ug/L	4,000	NC	NC	NC	4,000	4,000	1,000	2,000	550
Lead	ug/L	15	4	4	29	15	15	2	15	< 0.55
Lithium	ug/L	40	170	350	440	40	40	48	48	0.19
Mercury	ug/L	2	2	2	0.20#	2	2	0.2	2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	100	9.7	100	0.97
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	--	0.45
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	**5**	3.74	5	0.0466
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	--	0.0466
Selenium	ug/L	50	50	50	**5**	50	50	**3.3**	**5**	-0.137
Thallium	ug/L	2	2	2	3.7	2	2	0.2	2.0	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	--	< 4.0
Michigan CCR										
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.4
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**970**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)
Field Parameters																			
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	5.0	8.8	8.8	8.8	8.8	8.8	8.8	44	8.8	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.0	0.3	0.26	0.26	1.3	2.6	1.3	1.3	0.26	0.26
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	0.25	0.1	1.5	0.75	0.75	0.75	7.5	0.75	0.75	1.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100.0	20.0	150	100	100	100	100	100	100	200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	0.10	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3	3	3	3	3	3	3	6.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	20	20	20	20	40	40	48
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	150	100	100	100	100	100	100	200
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	5.9	2.5	2.5	2.5	12	2.5	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.353	1.0	0.41	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.28	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.923	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	5.0	4.0	4.0	8.0	8.0	8.0	4.0	4	4	4.0
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	1.0	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50.000	50.000	250	250	50	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2

Notes:
ug/L - micrograms per liter. mg/L - milligrams per liter.

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 04/2025)	Sample Location:										
											Compliance Phase:	Background Monitoring							Detection	Initial A.M.	
											Sample Dates:	12/1/2015	2/17/2016	4/12/2016	7/12/2016	9/27/2016	2/13/2017	4/4/2017	7/12/2017	9/14/2017	4/19/2018	6/14/2018
Field Parameters																						
pH	su	--	--	--	--	--	--	--	--	--		7.18	7.2	7.3	7.2	7.1	7.3	7.6	7.33	7.3	7.7	7.4
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--		345	731	573	482	387	921	424	375	424	513	451
Turbidity	NTU	--	--	--	--	--	--	--	--	--		1.23	<1	1.1	2.3	2.3	4.5	8.0	2.68	4.2	2.9	4.4
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--		0.67	0.3	0.7	0.3	0.5	0.9	3.2	0.20	0.19	4.22	0.31
Temperature	°C	--	--	--	--	--	--	--	--	--		9.19	5.4	6.7	17.3	19.0	7.1	7.4	18.31	17.26	6.3	17.2
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--		-100.7	-65.7	-37.1	-141.1	-79.1	-35.7	-66.6	-90.8	-117.9	-62.5	-14.7
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	8.8		<20	51	35	46	43	39	25	31.3	36.8	--	27.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	0.26		57.2	93.3	60.6	75.4	67.3	99.2	43.9	60.2	64.2	--	51.1
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5		9.50	137	66.6	13.1	1.23	181	20.1	3.0	7.0	--	14.2
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--		7.18	7.2	7.3	7.2	7.1	7.3	7.6	7.33	7.3	7.7	7.4
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6.0		10.0	5.27	4.69	5.39	<2	5.57	7.88	4.4	2.9	--	4.9
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	48		230	480	340	590	230	570	200	204	240	--	322
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55		1	1	<1	2	2	<1	<1	1.1	--	1.3	< 1.0
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5		83	125	97	151	147	173	82	116	--	99.3	103
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	--	< 0.20	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25		<1	<1	2	1	<1	<1	<1	<1	--	< 1.0	< 1.0
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52		<15	<15	<15	<15	<15	<15	<15	<15	--	< 15.0	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55		<1	<1	<1	1	<1	<1	<1	<1	--	2.0	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5		<10	<10	<10	<10	<10	<10	<10	<10	--	< 10	< 10
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2		<5	<5	<5	<5	<5	<5	<5	<5	--	< 5.0	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0		0.180	<0.336	<0.244	0.221	<0.332	<0.192	<0.279	<0.675	--	< 0.450	< 0.635
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0		0.882	<0.494	<0.378	0.662	0.545	1.02	0.447	<1.41	--	< 1.22	< 1.63
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0		0.702	<0.494	<0.378	0.441	0.471	1.02	0.447	<0.739	--	< 0.769	< 0.999
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38		<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0		--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25		--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	50		--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2		--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05		--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2		--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2		--	--	--	--	--	--	--	--	--	--	--

Notes:
ug/L - micrograms per liter. mg/L - milligrams per liter.

										MW-15005													
										Assessment Monitoring													
										11/27/2018	4/9/2019	9/25/2019	5/4/2020	10/27/2020	4/19/2021	10/19/2021	5/5/2022	10/19/2022	4/11/2023	10/4/2023	3/28/2024	10/22/2024
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Background													
Field Parameters																							
pH	su	--	--	--	--	--	--	--	--	7.4	7.4	7.4	7.40	7.56	7.21	7.2	7.1	7.43	7.28	7.08	7.14	6.75
Conductivity	µS/cm	--	--	--	--	--	--	--	--	385	824	810	283	375	463	573	519	420	430	540	510	590
Turbidity	NTU	--	--	--	--	--	--	--	--	9.8	7.2	6	57.77	18.80	7.05	5.44	0.19	0.02	0.02	0.02	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.71	0.52	0.27	0.95	0.07	0.01	0.19	0.59	0.21	0.81	0.09	0.28	0.02
Temperature	°C	--	--	--	--	--	--	--	--	8.64	7.7	16	9.9	12.9	8.5	15.6	9	14.4	9.4	16.3	9.0	17.3
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	35.1	-22.4	-149.9	207.0	-141.1	-40.7	-82.7	-7.1	-134.9	-94.1	11.9	-14.1	-42.9
Appendix III																							
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	38.5	56	< 50	13.1	22	16	94	59	54	47	45	48	95
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	55.0	76	58	37	58	60	88	73	72	71	88	68	85
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	32.0	150	89	10	3.6	60	20	37	11	16	9.3	16	19
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 1,000	< 1,000	< 1,000	110	< 20	< 150	< 100	140	< 100	100	77	170	< 200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.4	7.4	7.4	8.0	7.56	7.05	7.20	7.13	7.43	7.28	7.08	7.14	6.75
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	2.8	5.4	3.8	7.5	5.5	5.6	< 3	3.8	5.6	< 3	5.9	1.9	< 6.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	244	640	460	158	290	310	300	300	260	250	320	300	360
Appendix IV																							
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	< 1.0	--	0.57	< 0.25	0.65	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 1.0	< 1.0	3.0	1.3	2.4	0.87	1.5	< 0.55	1.2	< 2.8	1.1	0.41	0.74
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	94.4	160	150	72	150	130	170	140	150	120	180	110	190
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	0.059
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.20	--	0.15	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	0.078	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.0	1.1	1.3	0.5	0.51	0.35	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	0.21
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 6.0	< 6.0	--	0.097	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6	0.26	0.27
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 1,000	< 1,000	< 1,000	110	< 20	< 150	< 100	140	< 100	100	77	170	< 200
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 1.0	--	1.1	1.6	0.68	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	< 10	< 10	< 10	< 20.0	< 1.2	< 1.2	< 5.9	3.2	< 2.5	< 2.5	< 12	2.2	4
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 5.0	< 5.0	< 5.0	1.7	1.7	1.5	< 1.2	1.4	1.7	< 6.2	1.2	0.75[J+]	0.86
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.890	0.131	< 0.273	0.649	0.33	-0.07	0.37	0.14	-0.05[U]	0.0853[U]	0.134[U]	0.141	0.61
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	< 1.43	< 0.585	< 0.461	0.649	< 1	< 0.5	0.37	< 1	0.33[U]	1.35	0.94[J+]	0.306[U]	0.61[u]
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.01	< 0.585	< 0.461	-0.476	0.02	-0.5	0.25	0.21	0.33[U]	1.26	0.805[J+]	0.165[U]	-0.25[u]
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	0.24	0.15
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	9	< 4	8	14	< 8	< 8	< 4	< 4	5	< 4.0
Michigan CCR																							
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	1.4	2.7	0.41	1.3	< 0.25	< 1.2	< 1.2	0.61	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	**6,100**	**2,500**	**4,500**	**1,200**	**2,900**	**1,000**	**5,400**	**1,900**	**4,700**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	< 50	0.6	0.54	0.39	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2	0.66
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	48	30	20	14	12	43	27	34	6.4

Notes:
ug/L - micrograms per liter. mg/L - milligrams per liter.

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	4/23/2025	4/23/2025
Field Parameters											Field Dup
pH	su	--	--	--	--	--	--	--	--	7.07	7.07
Conductivity	µS/cm	--	--	--	--	--	--	--	--	460	460
Turbidity	NTU	--	--	--	--	--	--	--	--	9.27	9.27
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.36	0.36
Temperature	°C	--	--	--	--	--	--	--	--	9.5	9.5
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	3.1	3.1
Appendix III											
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	110	91
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	80	80
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	10	9.8
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	160	160
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.07	7.07
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	2.7	2.5
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	270	280
Appendix IV											
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.23	0.26
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.96	1.1
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	140	140
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.17	0.17
Chromium	ug/L	100	100	100	11	100	3	11	1	0.24^{J-}	0.5^{J+}
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.21	0.22
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	160	160
Lead	ug/L	15	4	4	29	15	2	15	1	0.44^{J-}	0.57^{J+}
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5	2.4
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	0.82	0.8
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.0157^{J-}	0.127^{J+}
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	0.0157^{J-}	0.176^{J+}
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	-0.167^{J-}	0.048^{J+}
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.32	0.35
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	12^{J+}	5^{J-}
Michigan CCR											
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	1.4	1.4
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**3,600**	**3,700**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 1.2^{UJ}	0.68^{J+}
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	0.98	1
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	38	39

Notes:
ug/L - micrograms per liter. mg/L - milligrams per liter.

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	5.0	8.8	8.8	8.8	8.8	8.8	44	44	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.0	0.3	0.26	2.6	1.3	2.6	1.3	1.3	0.26
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	0.25	0.1	1	0.75	0.75	0.75	0.75	0.75	0.75
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	150	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	0.10	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3	3	3	3	3	3	3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	20	20	20	20	42	40
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	0.10	20.0	150	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	12	2.5	2.5	2.5	12	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.245	1.0	0.43	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.26	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.01	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	8.0	8.0	4.0	4	4
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	1.0	0.25	0.25	0.25	1.2	1.2	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	250	250	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 10/2024)	RDL (Trace 04/2025)	Sample Location:									
												Compliance Phase:	Background Monitoring							Detection Monitoring	
												Sample Dates:	11/30/2015	2/17/2016	4/13/2016	7/12/2016	9/27/2016	2/13/2017	4/4/2017	7/12/2017	9/14/2017	2/21/2018
Field Parameters																					
pH	su	--	--	--	--	--	--	--	--	--	--		7.03	7.3	7.2	6.9	6.9	7.3	7.4	7.15	7.2	6.9
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--		683	471	518	678	557	503	414	599	545	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--		2.81	8.7	<1	<1	<1	<1	<1	<1	2.28	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--		2.71	2.7	2.6	1.4	1.2	2.0	3.5	1.49	0.39	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--		9.71	4.6	6.8	23.9	19.4	5.5	8.0	21.51	20.6	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--		-55.1	73.4	60.5	-18.5	-5.5	-49.7	-10.0	33.2	-25	--
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	8.8	8.8		48	39	33	43	55	32	35	42.3	45.1	--
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	0.26	0.26		84.5	73.9	60.0	60.6	86.2	70.5	67.9	68.8	79.6	--
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	1.5		50.0	12.8	32.5	63.1	19.6	48.0	23.5	69.8	16.1	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	200		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	--
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--		7.03	7.3	7.2	6.9	6.9	7.3	7.4	7.15	7.2	6.9
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6.0	6		17.0	17.1	12.7	8.54	12.2	7.34	6.88	9.4	11.6	--
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	50	40		380	290	300	380	320	330	260	346	322	--
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25		<1	1	<1	<1	1	<1	<1	<1	--	--
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55		1	1	<1	2	3	3	2	4.3	--	--
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	2.5		26	16	17	20	26	17	17	27.8	--	--
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25		<1	<1	<1	<1	<1	<1	<1	<1	--	--
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25		<1	1	2	1	<1	1	1	1	--	--
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52		<15	<15	<15	<15	<15	<15	<15	<15	--	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	200		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	--
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	0.55		<1	<1	<1	<1	<1	<1	<1	<1	--	--
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5	2.5		<10	<10	<10	<10	<10	<10	<10	<10	--	--
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	1.2		5	6	7	7	7	8	8	8.5	--	--
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0		<0.301	<0.268	<0.205	<0.225	<0.416	<0.240	<0.198	<0.701	--	--
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0		0.629	<0.623	<0.479	<0.522	<0.571	<0.483	0.652	<1.41	--	--
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0		0.584	<0.623	<0.479	<0.522	<0.571	<0.483	0.459	<0.708	--	--
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5		3	3	2	1	1	<1	1	1.2	--	--
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	0.38		<2	<2	<2	<2	<2	<2	<2	<2	--	--
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	4.0		--	--	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25		--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	50	50		--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05		--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	--

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	MW-15006												
										Initial A.M.	Assessment Monitoring										
										4/19/2018	6/14/2018	11/27/2018	4/9/2019	9/24/2019	5/4/2020	10/27/2020	4/20/2021	10/19/2021	5/5/2022	10/19/2022	4/11/2023
										Background											
Field Parameters																						
pH	su	--	--	--	--	--	--	--	--	7.5	7.3	7.2	7.4	7.4	7.17	7.53	7.14	7.55	7.01	7.24	7.24
Conductivity	µS/cm	--	--	--	--	--	--	--	--	642	420	446	286	430	394	1270	491	610	601	600	585
Turbidity	NTU	--	--	--	--	--	--	--	--	2.8	8.1	1.62	2.6	0.37	9.32	3.01	0.02	6.5	2.89	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	4.34	1.16	2.48	2.05	0.34	1.85	0.03	0.65	0.37	1.15	1.73	1.99
Temperature	°C	--	--	--	--	--	--	--	--	5.1	18.8	7.38	8.3	19	10.0	14.2	9.2	18.8	9.5	13.3	9.0
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-6	-15.3	22.3	-20.7	-118.5	148.9	-123.9	61	-90.1	25.8	-73.7	-72.0
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	--	42.1	42.5	< 50	50	30	51	35	54	82	70	44
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	--	49.8	74.7	63	64	67	60	80	95	98	99	100
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	--	16.7	24.4	2.0	10	5	200	2.5	9.4	16	6.8	5.2
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	240	320	380	130	160	140	140
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.5	7.3	7.2	7.4	7.4	7.9	7.53	7.14	7.55	7.26	7.24	7.24
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	--	6.8	11.3	9.2	11	8	25	25	12	42	44	45
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	--	340	298	240	310	234	760	310	340	410	370	350
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	1.4	< 1.0	< 1.0	--	0.56	0.65	0.47	0.38	0.61	0.81	< 1.2
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.6	**40.9**	2.3	3.1	8.5	4.6	8.5	3.4	**15**	< 0.55	2.4	< 2.8
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	20.5	52.1	19.1	16	25	14	34	20	29	32	29	27
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	0.22	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.0	3.7	< 1.0	1.1	< 1.0	0.3	0.25	0.25	0.28	< 0.25	0.27	< 1.2
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 15.0	< 15.0	< 6.0	< 6.0	--	0.41	0.54	1.2	1.1	< 0.52	0.58	< 2.6
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	240	320	380	130	160	140	140
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	1.1	< 1.0	< 1.0	--	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	< 10	< 10	< 10	< 10	< 10	< 20.0	1.8	< 1.2	< 12	< 2.5	< 2.5	< 2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	5.5	7.9	< 5.0	6.0	5.8	3.7	9.7	4.6	3	1.6	2.2	< 6.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.452	< 0.515	< 0.938	< 0.173	< 0.157	-0.0315	0.21	0.14	0.41	0.24	0.23^{U}	0.0385^{U}
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	< 1.13	< 1.62	< 1.69	< 0.681	< 0.533	0.000	0.6	< 0.5	1.12	< 1	0.23^{U}	0.282^{U}
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.682	< 1.10	0.758	< 0.681	< 0.533	-0.295	0.39	0.23	0.71	0.17	-11.2^{UG}	0.243^{U}
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.2	2.2	1.1	1.8	< 1.0	0.93	0.55	1.2	0.79	1.9	3.3	< 2.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	--	< 2.5	4	< 4	< 8	< 8	< 8	< 4
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	< 1	< 1	0.37	0.65	0.64	< 1.2
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	--	**2,800**	**1,400**	**5,400**	200	**2,200**	**1,300**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	< 50	0.65	0.46	0.38	< 1.2	< 6.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	1.6	1.4	< 6.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	10/2/2023	3/28/2024	10/22/2024	4/23/2025
Field Parameters													
pH	su	--	--	--	--	--	--	--	--	7.3	7.28	7.03	7.15
Conductivity	µS/cm	--	--	--	--	--	--	--	--	510	440	490	456
Turbidity	NTU	--	--	--	--	--	--	--	--	2.32	0.02	0.02	5.68
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.06	0.95	0.01	1.18
Temperature	°C	--	--	--	--	--	--	--	--	18.6	7.2	17.1	8.8
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-145.2	-25.5	-51.3	-37.2
Appendix III													
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	48	25	48	37
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	88	62	80	76
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5.6	4.3	5.1	4.7
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	160	370	< 200	230
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.3	7.28	7.03	7.15
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	20	17	11	7.5
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	320	260	330	300
Appendix IV													
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.2	0.14[J+]	0.33	0.52
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	**10**	1.6	5	4.3
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	28	14	22	18
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.2	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 1.2	< 0.25	< 0.25	0.078
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.2	< 0.25	< 0.25	0.36
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.5	0.52	1.2	1.4
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	160	370	< 200	230
Lead	ug/L	15	4	4	29	15	2	15	1	< 2.8	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	< 12	< 2.5	< 2.5	< 2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	5.2	5.1	8.1	5.4
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.0485[U]	0.0861[U]	0.7	0.109
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	0.231[U]	0.287[U]	1.55	0.537
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.183[U]	0.201[U]	0.85	0.428
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 2.5	0.79	0.52	1.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 1.9	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	7	< 4	4.0	5
Michigan CCR													
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 1.2	1.0	0.6	1.5
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**7,500**	**1,500**	**2,400**	**3,100**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 6.2	< 1.2	1	0.91
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.25	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 6.2	< 1.2	< 1.2	0.77
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	< 6.2	2.1	< 1.2	1.6

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)
Field Parameters																			
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	5.0	8.8	8.8	8.8	8.8	8.8	44	44	8.8	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.0	0.3	0.26	0.26	2.6	2.6	1.3	1.3	0.26	0.26
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	25	0.1	15	7.5	3.8	7.5	7.5	7.5	0.75	1.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	150	100	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	0.10	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3	3	3	30	3	3	3	6.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	20	20	20	20	38	40	50
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	150	100	100	100	100	100	100	200
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	5.9	2.5	2.5	12	12	2.5	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.241	1.0	0.43	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.18	1.0	0.46	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.938	1.0	0.46	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	8.0	8.0	4.0	4	4	4.0
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	1.0	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	250	250	50	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2

										Sample Location:												
										Compliance Phase:	Background Monitoring								Detection Monitoring		Initial A.M.
										Sample Dates:	12/1/2015	2/17/2016	4/13/2016	7/12/2016	9/27/2016	2/13/2017	4/4/2017	7/12/2017	9/14/2017	2/21/2018	4/19/2018
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 04/2025)												
Field Parameters																						
pH	su	--	--	--	--	--	--	--	--	--	6.74	6.6	6.6	6.6	6.6	6.7	6.7	6.74	6.7	6.8	7.0
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	6,286	7,506	7,861	7,314	8,664	6,474	6,047	4,980	4,965	--	2,993
Turbidity	NTU	--	--	--	--	--	--	--	--	--	2.03	1	<1	<1	<1	1.3	<1	2.12	2.19	--	2.5
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	0.23	1.4	0.3	0.3	0.4	0.5	0.1	0.13	0.13	--	0.44
Temperature	°C	--	--	--	--	--	--	--	--	--	10.56	5.3	7.1	19.1	20.3	6.1	7.6	19.60	19.7	--	5.9
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	-134.8	-72.5	-48.7	-109.9	-94.8	-90.8	-72.9	-118.7	-67.7	--	-3
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	8.8	79	74	65	89	135	76	83	130	141	--	--
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	0.26	165	222	226	234	250	181	169	170	133	--	--
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	1,900	2,300	2,480	2,280	2,390	1,850	1,670	1,900	1,940	--	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	--	< 1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	6.74	6.6	6.6	6.6	6.6	6.7	6.7	6.74	6.7	6.8	7.0
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6.0	21.0	15.7	11.0	9.87	9.38	3.19	4.25	9.1	8.3	--	--
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	40	3,700	2,000	3,900	4,500	4,800	3,700	3,100	3,700	2,690	--	--
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	<1	<1	<1	<1	<1	<1	1	<1	--	--	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	5	1	1	5	3	1	2	5.8	--	--	2.0
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	285	267	236	294	377	227	167	229	--	--	61.0
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	--	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	<1	2	2	2	1	2	2	1.1	--	--	< 1.0
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	<15	<15	<15	<15	<15	<15	<15	<15	--	--	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	--	< 1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	<1	<1	<1	<1	<1	<1	<1	<1	--	--	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5	<10	<10	<10	<10	<10	<10	<10	<10	--	--	< 10
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	8	<5	<5	<5	<5	<5	<5	<5	--	--	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	0.686	0.659	0.289	0.554	1.15	0.629	0.492	<0.711	--	--	< 0.445
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	2.19	1.69	1.56	1.65	2.75	2.02	1.29	<1.45	--	--	< 1.21
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.50	1.03	1.27	1.10	1.60	1.39	0.796	0.850	--	--	< 0.760
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	1	<1	<1	<1	<1	<1	2	<1	--	--	< 1.0
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	<2	<2	<2	<2	<2	<2	<2	<2	--	--	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	50	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	MW-15007 Assessment Monitoring Background 6/14/2018	11/27/2018	4/9/2019	9/24/2019	5/4/2020	10/27/2020	4/20/2021	10/19/2021	5/5/2022	5/5/2022	10/19/2022	4/12/2023	10/4/2023
Field Parameters																			Field Dup			
pH	su	--	--	--	--	--	--	--	--	6.9	6.8	6.8	6.8	6.71	7.02	6.85	7.49	6.65	6.65	6.84	6.86	6.91
Conductivity	µS/cm	--	--	--	--	--	--	--	--	2,626	2,394	2,469	3,715	2,352	2,170	2,030	1,700	1,880	1,880	1,730	1,750	1,390
Turbidity	NTU	--	--	--	--	--	--	--	--	3.7	2.26	3.7	0.52	13.60	2.80	5.37	1.8	3.64	3.64	0.02	0.75	0.77
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.39	0.23	0	0.38	0.25	0.25	1.53	0.23	0.09	0.09	0.24	0.2	0.15
Temperature	°C	--	--	--	--	--	--	--	--	17.4	10.22	6.7	19.7	8.7	14.7	8.4	18	7.9	7.9	15.6	7.8	17.6
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	22.2	-0.38	-86.7	-114.6	109.1	-113.1	-46.4	-108.2	-94.8	-94.8	-94.4	-115.5	-94.6
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	93.7	91.0	90	150	77	120	83	170	140	130	160	85	140
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	108	109	130	160	91	63	72	81	120	120	120	110	100
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	759	718	790	1,100	513	500	440	280	250	250	270	190	200
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 1,000	< 1,000	**< 5,000**(1)	< 2,000	320	490	350	310	210	220	250	200	210
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	--	--	--	0.1	6.9	6.8	6.8	6.8	7.3	7.02	6.85	7.49	6.84	6.85	6.84	6.86	6.91
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	17.9	44.6	< 10	4.4	3.6	< 0.6	4	< 3	29^{J-}	170^{J+}	190	240	62
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	1,510	1,620	1,900	2,000	1,180	1,200	1,100	830	890	910	1,100	1,200	890
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	0.33	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	6.4	2.0	1.8	5.0	2.0	3.1	1.9	1.3	< 0.55	< 0.55	2.4	< 2.8	3.2
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	66.5	81.4	100	150	58	64	66	75	89	96	99	110	95
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	--	0.024	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 1.0	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.0	< 1.0	< 1.0	< 1.0	0.55	0.73	0.94	2.1	0.25	0.27	0.28	< 1.2	< 1.2
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 15.0	< 6.0	< 6.0	--	0.39	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	0.52	< 2.6	0.59
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 1,000	< 1,000	**< 5,000**(1)	< 2,000	320	490	350	310	210	220	250	200	210
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 5.0	< 1.0	--	0.092	< 0.55	0.69	0.77	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	< 10	< 10	< 10	< 10	2.6	1.4	< 1.2	< 5.9	2.5^{J-}	5.9^{J+}	< 2.5	24	< 12
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 5.0	< 25.0	< 5.0	< 5.0	2.7	5.3	4.4	< 1.2	< 1.2	< 1.2	6.1	< 6.2	2.5
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.408	< 0.858	< 0.177	0.198	0.0852	0.46	0.45	0.26	-0.02	0.17	0.12^{U}	0.195	0.313
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	< 1.38	< 1.61	< 0.718	< 0.569	0.800	1.4	1.29	0.26	0.00	0.17	0.47^{U}	1.06	0.313^{UJ}
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.972	1.07	< 0.718	< 0.569	0.715	0.94	0.84	0.19	-0.13	-0.67	0.35^{U}	0.87	-0.0351^{UJ}
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.2	< 2.5	< 2.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 10.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	2	< 4	5	< 8	< 8	< 8	< 8	< 4	< 4
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	< 1	1.4	4.9	0.29	0.42	0.28	< 1.2	< 1.2
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	**7,900**	**8,500**	**7,700**	**11,000**	**11,000**	**8,300**	**10,000**	**6,800**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	< 50	0.6	0.84	0.31	0.37	< 1.2	< 6.2	< 6.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	< 10	< 1.2	1.7	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	< 10	2.5	4.4	< 1.2	< 1.2	< 1.2	11	7.0

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	3/28/2024	10/22/2024	4/23/2025
Field Parameters												
pH	su	--	--	--	--	--	--	--	--	6.98	6.92	6.87
Conductivity	µS/cm	--	--	--	--	--	--	--	--	820	780	820
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	5.87	8.66
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.05	0.09	0.41
Temperature	°C	--	--	--	--	--	--	--	--	7.1	17.2	9
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	119	-49	-24.6
Appendix III												
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	65	130	81
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	72	77	79
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	99	57	100
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	300	< 200	320
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	6.98	6.92	6.87
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	27	17	9.5
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	600	500	440
Appendix IV												
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	0.48	0.31
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	3.3	4.4
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	20	34	32
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 0.25	0.26	0.31
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.53	0.56	0.73
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	300	< 200	320
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	0.1	0.11
Lithium	ug/L	40	170	350	440	40	48	48	10	< 2.5	2.1	< 2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	7.6	13	8.9
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	-0.00361[U]	0.67	0.368
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	0.0996[U]	0.67[U]	0.567
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.0996[U]	-0.85[U]	0.199
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.98	1.1	0.99
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	< 4	4.0	5
Michigan CCR												
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	1.1	1.1	1.1
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**710**	**2,100**	**5,500**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	0.67	1.1	1.1
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	1.1	1.5
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	2.9	1.9	2.4

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	25.0	8.8	8.8	8.8	8.8	8.8	44	44	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.0	0.3	0.26	2.6	2.6	2.6	1.3	1.3	0.26
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	25	0.1	1	1.5	0.75	0.75	0.75	0.75	0.75
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	150	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	0.10	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3	3	15	15	3	3	3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	20	20	20	20	20	40
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	150	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	2.5	12	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.199	1.0	0.35	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.1	1.0	0.57	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.9	1.0	0.57	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	8.0	8.0	4.0	4	4
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	250	250	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 10/2024)	RDL (Trace 04/2025)	Sample Location:									
												Compliance Phase:	Background Monitoring							Detection	Initial
												Sample Dates:	12/1/2015	2/17/2016	4/13/2016	7/12/2016	9/28/2016	2/14/2017	4/4/2017	7/12/2017	9/14/2017	4/18/2018
Field Parameters																					
pH	su	--	--	--	--	--	--	--	--	--	--		8.15	8.3	8.1	8.1	7.8	7.8	7.6	7.62	7.7	7.8
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--		938	956	1,133	2,443	2,149	1,078	864	711	743	896
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--		1.18	<1	<1	<1	<1	<1	<1	3.79	1.49	0.9
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--		0.00	0.1	0.2	0.2	0.4	0.6	0.5	0.11	0.13	0.23
Temperature	°C	--	--	--	--	--	--	--	--	--	--		12.78	6.2	6.7	21.8	19.9	6.5	7.8	18.29	19.03	6.7
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--		-308.4	-219.5	-230.2	-239.0	-250.7	-117.9	-88.3	-114.3	-108	-1
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	8.8	8.8		1,060	897	794	866	1,160	489	416	396	401	--
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	0.26	0.26		39.6	39.5	48.4	77.2	109	63.4	63.0	54.4	51.8	--
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	1.5		160	157	193	546	423	129	95.9	70.0	68.9	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	200		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--		8.15	8.3	8.1	8.1	7.8	7.8	7.6	7.62	7.7	7.8
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6.0	6		45.0	3.05	5.13	22.3	12.0	8.70	4.60	3.9	3.0	--
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	50	40		540	530	590	1,300	1,100	650	510	414	448	--
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55		1	<1	<1	4	<1	<1	<1	2.3	--	< 1.0
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	2.5		39	42	49	61	100	63	59	54.6	--	64.2
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25		<1	<1	1	2	<1	<1	1	1	--	< 1.0
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52		<15	<15	<15	<15	<15	<15	<15	<15	--	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	200		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	0.55		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5	2.5		12.9	13.5	16	19	28	17	18	23	--	22
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	1.2		<5	<5	<5	<5	<5	<5	<5	<5	--	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0		<0.188	<0.215	<0.199	0.174	<0.217	<0.173	<0.284	<0.592	--	0.690
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0		0.620	<0.457	0.646	<0.405	1.03	0.843	<0.346	1.66	--	< 1.19
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0		0.521	<0.457	0.516	<0.405	0.893	0.672	<0.346	1.47	--	< 0.684
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5		<1	<1	<1	1	<1	<1	1	<1	--	< 1.0
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	0.38		<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	4.0		--	--	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25		--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	50	50		--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05		--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	--

										MW-15008													
										A.M.	Assessment Monitoring												
										4/18/2018	6/14/2018	11/27/2018	4/9/2019	9/24/2019	5/4/2020	10/27/2020	4/20/2021	10/19/2021	5/5/2022	10/19/2022	4/12/2023	10/3/2023
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Background													
Field Parameters										Field Dup													
pH	su	--	--	--	--	--	--	--	--	7.8	7.5	7.4	7.5	7.6	7.33	7.72	7.5	7.2	7.01	7.01	7.2	7.08
Conductivity	µS/cm	--	--	--	--	--	--	--	--	896	786	757	953	872	1,195	730	481	850	980	850	497	760
Turbidity	NTU	--	--	--	--	--	--	--	--	0.9	6.8	1.14	3.5	0.9	115.55	4.35	7.26	1.28	0.56	0.81	0.02	9.04
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.23	0.3	0.38	-0.01	0.3	0.27	0.12	0.12	0.12	0.74	0.09	0.75	0.13
Temperature	°C	--	--	--	--	--	--	--	--	6.7	17.5	10.4	6.9	19.3	9.0	14.9	8.6	21.2	5.8	18.4	9.3	21.3
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-1	-23.4	32.4	-81.7	-126.3	111.2	-133.3	-77	-147.5	-50.8	-81.7	-84.2	-102.9
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	--	242	269	230	300	294	130	68	700	640	740	210	610
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	--	56.7	63.1	100	87	103	78	71	110	140	130	77	110
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	--	93.9	95.2	200	81	162	45	13 J	55	50	29	8.6	48
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	240	210	< 150	200	130	200	140	170
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	7.5	7.4	7.5	7.6	7.9	7.7	7.5	7.2	7.26	7.01	7.2	7.08
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	--	< 2.0	3.1	2.0	2.1	1.1	57.0	51 J	78	170	140	31	67
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	--	534	474	710	470	656	420	310	430	630	610	290	490
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	< 0.25	0.31	< 0.25	< 1.2	< 1.2
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 1.0	2.1	2.3	1.6	1.8	1.3	**18**	**74**	**17**	8	4.5	3.6	**12**
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	70.7	66.5	64.1	130	92	120	60	43	85	100	100	47	75
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.2	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 15.0	< 15.0	< 6.0	< 6.0	--	0.16	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	240	210	< 150	200	130	200	140	170
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	18	19	19	14	17	16	9	1.7	13	13	21	11	17
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.37	< 1.2	1.4	< 1.2	2.3	2.2	< 6.2	2.8
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.444	< 0.422	1.12	0.217	< 0.138	0.401	-0.02	0.32	0.39	0.01	0.27	0.0515[U]	0.184[U]
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	< 1.06	< 1.44	1.53	0.532	< 0.546	0.892	< 1	< 0.57	0.39	< 1	1.82	0.722	0.299[U]
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.616	< 1.02	< 0.533	< 0.478	< 0.546	0.491	0.2	0.21	0.08	-0.09	1.55	0.671[U]	0.115[U]
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	--	< 2.5	< 4	< 4	< 8	< 8	< 8	< 4	< 4
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	< 1	< 0.25	< 0.25	0.3	< 0.25	< 1.2	< 1.2
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	--	**830**	**2,500**	**2,200**	**970**	**2,400**	**970**	**3,600**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	< 50	< 0.25	0.44	0.6	< 1.2	< 6.2	< 6.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	1.7	< 1.2	< 6.2	< 6.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	3/28/2024	10/24/2024	4/23/2025
Field Parameters												
pH	su	--	--	--	--	--	--	--	--	7.4	6.82	7.26
Conductivity	µS/cm	--	--	--	--	--	--	--	--	570	590	599
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	0.02	2.36
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.05	0.01	0.14
Temperature	°C	--	--	--	--	--	--	--	--	7.7	17	9.1
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	102	17.3	-36.5
Appendix III												
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	5	240	370	180
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	74	78	89
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	22	18	12
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	320	< 200	200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.4	6.82	7.26
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	9.2	5.4	2.8
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	400	340	350
Appendix IV												
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	0.14	0.15
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	2.7	5.8	2.7
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	47	53	52
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 0.25	0.27	< 0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 0.52	0.12	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	320	< 200	200
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	10	15	13
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	0.72^{J+}	3	1.4
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.221	0.47^{U}	0.102
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	0.327^{U}	0.67^{U}	0.503
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.106^{U}	0.2^{U}	0.401
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 0.5	< 0.5	0.1
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	< 4	< 4.0	< 4.0
Michigan CCR												
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 0.25	< 0.25	0.69
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**1,100**	**1,400**	**1,200**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 1.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	4.3	2.5	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	125	8.8	8.8	8.8	8.8	8.8	44	44	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	2.6	1.3	5.1	2.6	1.3	1.3	0.26
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5	0.1	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	100	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3	3	3	3	3	3	15
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	20	20	20	20	10	40
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	100	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	2.5	12	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.204	1.0	0.3	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.29	1.0	0.48	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.09	1.0	0.48	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	7.7	8.0	4.0	4	4
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	30	7.5	50	50	250	250	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05
Vanadium	mg/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2

											Sample Location:										
											Compliance Phase:	Background Monitoring									Detection
											Sample Dates:	12/1/2015	2/17/2016	4/18/2016	7/12/2016	9/28/2016	2/14/2017	4/5/2017	7/11/2017	7/11/2017	9/13/2017
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 10/2024)	RDL (Trace 04/2025)									Field Dup	
Field Parameters																					
pH	su	--	--	--	--	--	--	--	--	--	--	10.62	10.8	10.3	10.0	10.0	10.2	10.1	9.60	9.60	10.2
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	335	352	346	356	358	329	338	296	296	307
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	1.93	<1	<1	<1	<1	1.2	2.5	6.99	6.99	2.88
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	0.41	0.2	0.4	0.2	0.4	0.4	0.0	0.05	0.05	0.03
Temperature	°C	--	--	--	--	--	--	--	--	--	--	13.50	12.7	17.7	19.7	16.8	13.6	13.5	17.00	17.00	16.14
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	-236.7	-280.2	-195.5	-367.1	-365.3	-361.2	-292.0	-319.6	-319.6	-363.9
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	44	8.8	**2,380**	**2,520**	**2,170**	**2,070**	**2,190**	**2,110**	**2,190**	**2,210**	**1,690**	**2,120**
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.3	1.3	42.7	44.1	40.1	44.1	46.7	37.7	38.2	37.6	36.5	34.9
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	1.5	24.0	24.0	27.1	26.9	24.3	22.8	24.9	26.3	26.3	26.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	<1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--	**10.62**	**10.8**	**10.3**	**10**	**10**	**10.2**	**10.1**	**9.6**	--	**10.2**
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	15	6	63.0	39.3	49.5	55.2	49.1	31.6	39.8	43.0	47.2	41.7
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	50	40	240	230	220	220	230	200	190	216	246	188
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25	1	<1	<1	<1	<1	<1	<1	<1	<1	--
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55	**45**	**31**	**24**	**24**	**20**	**14**	**13**	**12.0**	**10.8**	--
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	2.5	16	12	11	11	11	9	10	13.2	10.8	--
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25	<1	<1	1	2	<1	<1	<1	<1	<1	--
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52	<15	<15	<15	<15	<15	<15	<15	<15	<15	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	--
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	0.55	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
Lithium	ug/L	40	170	350	440	40	48	48	10	12	12	15.6	14.6	15	14	14	13	14	19	19	--
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	1.2	57	60	50	49	49	40	38	43.7	41.8	--
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	<0.166	<0.157	<0.209	<0.158	<0.269	<0.159	<0.347	<0.756	< 0.887	--
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0	<0.451	<0.475	<0.467	<0.461	<0.628	0.747	<0.502	<2.72	< 3.85	--
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	<0.451	<0.475	<0.467	<0.461	<0.628	0.678	<0.502	<1.96	< 2.96	--
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5	<1	<1	2	<1	<1	<1	<1	<1	<1	--
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	0.38	<2	<2	<2	<2	<2	<2	<2	<2	<2	--
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	4.0	--	--	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	250	250	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--

										MW-15009												
										Initial A.M.	Assessment Monitoring											
										4/16/2018	6/13/2018	11/28/2018	4/9/2019	9/25/2019	5/7/2020	10/27/2020	4/20/2021	10/21/2021	5/5/2022	10/19/2022	4/12/2023	10/3/2023
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Downgradient												
Field Parameters																						
pH	su	--	--	--	--	--	--	--	--	9.8	9.8	9.8	9.4	8.7	8.05	8.32	8.08	8.19	7.13	7.75	7.74	7.82
Conductivity	µS/cm	--	--	--	--	--	--	--	--	482	477	516	349	490	810	626	603	660	1870	740	1020	720
Turbidity	NTU	--	--	--	--	--	--	--	--	2.4	0.5	0.94	2.8	0.29	96.65	1.35	2.84	0.02	0.02	0.02	0.02	2.63
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.3	0.31	0.28	0.02	0.31	2.25	0.06	0.63	0.12	0.08	0.14	0.05	0.05
Temperature	°C	--	--	--	--	--	--	--	--	10.9	18.1	12.73	13.2	15.6	13.7	13.9	11.8	15.1	11.2	11.7	12.6	15
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-381.1	-107.9	-34.6	-254.3	-258.8	-157.3	-168.4	-88.4	-201.9	-195.6	-155.8	-206.1	-162.6
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	--	**1,670**	**1,690**	**1,600**	**1,500**	**1,560**	1,100	760	**1,700**	**2,200**	870	1,000	650
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	--	42.4	27.9	33	51	97	74	96	110	270	100	150	98
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	--	95.7	51.1	32	41	134	55	32	30	220	46	54	41
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 1000	<1,000	< 1,000	< 1,000	< 1,000	37	< 20	120	< 100	< 100	< 100	100	92
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	**9.8**	**9.8**	**9.8**	**9.4**	**8.7**	8.2	8.3	8.08	8.19	7.2	7.75	7.74	7.82
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	--	< 2.0	19.2	49	30	17	12	5.3	18	34	86	140	85
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	--	456	454	300	290	502	500	340	230	900	480	640	460
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	9.4	8.5	4.1	3.9	2.3	1.4	1.0	0.74	0.93	< 0.55	2.4	**14**	**15**
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	16.5	13.8	10.2	16	27	64	55	49	65	250	72	120	80
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19	< 0.25	< 0.25	< 0.25	0.32	< 0.25	< 1.2	< 1.2
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 15.0	< 15.0	< 6.0	< 6.0	--	0.16	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 1000	<1,000	< 1,000	< 1,000	< 1,000	37	< 20	120	< 100	< 100	< 100	100	92
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	24	21	20	21	32	**64**	**46**	30	11	30	21	30	25
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	16.0	11.6	5.2	< 5.0	< 5.0	0.56	< 1.2	< 1.2	< 1.2	< 1.2	1.4	0.9	1.5
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.934	< 0.580	< 0.567	< 0.153	0.370	0.0720	0.0500	0.13	0.38	0.71	0.03[U]	0.324	0.0829[U]
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	< 1.89	< 3.85	< 1.47	< 0.583	0.807	0.0720	1.0300	< 0.48	0.86	0.71	0.03[U]	0.805	0.343[U]
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.957	< 3.27	< 0.903	< 0.583	< 0.551	-0.960	0.980	-0.33	0.48	0.08	-1.53[U]	0.481[U]	0.26[U]
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	--	< 2.5	< 4	< 4	< 8	< 7.7	< 8	< 4	< 4
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	< 1	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	--	< 200	37	21	**570**	200	**1,300**	**760**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	< 50	< 0.25	0.25	0.36	< 1.2	< 6.2	< 6.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25
Vanadium	mg/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	12	6.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	3/28/2024	10/23/2024	4/23/2025
Field Parameters												
pH	su	--	--	--	--	--	--	--	--	7.78	7.66	7.73
Conductivity	µS/cm	--	--	--	--	--	--	--	--	990	1020	740
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	0.02	4
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.02	0.01	0.05
Temperature	°C	--	--	--	--	--	--	--	--	12.1	13.5	12.4
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	104.8	-90.9	-119.7
Appendix III												
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	700	800	650
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	140	150	97
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	45	44	48
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	88	< 200	120
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.78	7.66	7.73
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	200	210	170
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	740	700	480
Appendix IV												
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	**21**	**22**	8.4
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	100	120	60
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 0.25	< 0.25	< 0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 0.52	0.1	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	88	< 200	120
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	28	32	27
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	6.5	4.4	**16**
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.182	0.4^{U}	0.0959
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	0.487^{U}	1.01^{U}	0.0959
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.305^{U}	0.61	-0.011
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 0.5	< 0.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	< 4	5.0	< 4
Michigan CCR												
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 0.25	< 0.25	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**1,500**	**1,500**	**1,100**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 1.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05	< 0.05
Vanadium	mg/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	9.0	4.7	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 8/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)
Field Parameters																				
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																				
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	50	8.8	8.8	8.8	8.8	8.8	8.8	44	44	8.8	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	0.26	1.3	2.6	2.6	2.6	1.3	1.3	2.6	1.3
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	2.5	0.1	1.5	3.8	7.5	7.5	7.5	7.5	7.5	3.8	3.8
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	150	100	100	100	100	100	100	100	200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	0.10	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3	3	15	3	3	3	3	3	6.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	20	20	20	20	20	10	40	40
Appendix IV																				
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	2.5	12	12	2.5	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	150	100	100	100	100	100	100	100	200
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	2.5	12	12	2.5	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.241	1.0	0.41	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.24	1.0	0.55	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1	1.0	0.55	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	0.38	1.9	1.9	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	8.0	4.0	8.0	4.0	4	4	4.0
Michigan CCR																				
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	50	250	250	50	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	1.2	6.2	6.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 04/2025)											
Sample Location:																					
Compliance Phase:											Background Monitoring								Detection Monitoring		Initial A.M.
Sample Dates:											12/1/2015	2/17/2016	4/13/2016	7/13/2016	9/28/2016	2/14/2017	4/5/2017	7/11/2017	9/13/2017	9/13/2017	4/16/2018
Field Parameters																				Field Dup	
pH	su	--	--	--	--	--	--	--	--	--	7.74	7.8	7.8	7.8	8.0	8.0	7.8	7.8	7.8	7.8	7.8
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	587	402	344	449	547	390	556	345	875	875	941
Turbidity	NTU	--	--	--	--	--	--	--	--	--	2.51	2.8	<1	3.1	<1	<1	<1	4.71	1.43	1.43	0.7
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	0.01	0.1	0.2	0.3	0.4	0.5	0.5	0.08	0.11	0.11	0.26
Temperature	°C	--	--	--	--	--	--	--	--	--	12.97	11.4	10.9	16.0	18.5	12.0	11.3	15.50	14.98	14.98	10.6
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	-246.0	-197.3	-182.6	-174.7	-104.8	-192.3	-52.9	-193.4	-126.9	-126.9	-146.3
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	8.8	**1,970**	**1,510**	**1,340**	1,270	**1,570**	**1,440**	**1,760**	**1,340**	**1,770**	**1,770**	--
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.3	71.2	51.9	37.4	58.2	66.4	49.8	80.5	40.7	129	133	--
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	23.0	22.5	21.5	22.7	25.1	22.3	24.2	25.5	24.5	24.4	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	<1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	7.74	7.8	7.8	7.8	8.0	8.0	7.8	7.8	7.8	--	7.8
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6.0	120	52.6	31.0	50.7	69.7	24.2	53.5	24.8	143	143	--
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	40	410	270	220	260	320	250	360	288	570	618	--
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	--	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	<1	<1	<1	<1	<1	<1	<1	<1	--	--	< 1.0
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	49	34	28	42	45	31	51	29.2	--	--	63.4
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	--	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	<1	<1	2	<1	<1	1	<1	<1	--	--	< 1.0
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	<15	<15	<15	<15	<15	<15	<15	<15	--	--	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	<1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	<1	<1	<1	<1	<1	<1	<1	<1	--	--	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5	36.1	22.7	18	15	22	14	18	21	--	--	**46**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	33	29	27	15	20	9	7	16.2	--	--	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	<0.302	<0.217	<0.244	<0.145	<0.297	<0.179	<0.216	<0.642	--	--	< 0.869
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	0.973	<0.502	<0.447	0.451	0.820	<0.363	<0.380	<1.60	--	--	< 1.75
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	0.849	<0.502	<0.447	0.420	0.728	<0.363	<0.380	<0.956	--	--	< 0.877
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	<1	<1	1	1	<1	<1	<1	<1	--	--	< 1.0
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	<2	<2	<2	<2	<2	<2	<2	<2	--	--	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	50	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--

										MW-15010												
										Assessment Monitoring												
										6/14/2018	11/28/2018	4/9/2019	9/24/2019	5/4/2020	10/27/2020	4/21/2021	10/21/2021	5/5/2022	8/11/2022	10/19/2022	4/12/2023	10/4/2023
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Downgradient												
Field Parameters																						
pH	su	--	--	--	--	--	--	--	--	7.4	7.5	7.6	7.4	7.16	7.39	7.38	7.30	7.08	5.63	7.11	7.06	7.24
Conductivity	µS/cm	--	--	--	--	--	--	--	--	991	1,003	570	798	814	565	720	1,080	2,170	1,660	1,580	2,210	1,890
Turbidity	NTU	--	--	--	--	--	--	--	--	5.1	2.83	4.5	1	9.07	9.13	1.16	0.02	0.93	0.02	0.49	0.02	2.32
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.34	0.38	0.02	0.29	0.23	0.05	0.23	0.23	0.38	2.68	0.05	0.2	0.08
Temperature	°C	--	--	--	--	--	--	--	--	13.3	12.15	11.9	14.8	11.4	12.9	11.3	13.9	11.0	12.5	10.2	12.4	13.6
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	5.3	68.1	-140.2	-120.3	105.4	-105.7	9.6	-128.7	-104.2	-144.0	-94.1	-121.5	-69.7
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	**2,100**	**1,850**	**1,700**	1,100	638	510	730	530	1,000	1,300	**1,600**	1,000	1,200
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	133	115	110	130	127	78	89	120	180	130	110	240	140
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	29.3	39.6	22	42	43	35	58	140	400	300	290	390	390
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	<1,000	< 1,000	< 1,000	< 1,000	360	380	360	260	410	320	310	280	270
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.4	7.5	7.6	7.4	7.6	7.4	7.38	7.3	7.23	7.28	7.11	7.06	7.24
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	73.7	48.3	49	2.9	1	< 0.6	< 3	8.9	110	22	3.1	170	38
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	636	590	490	450	471	520	430	580	1,200	960	860	1,400	1,100
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	64.8	68.1	78	61	55	39	47	60	130	130	130	210	130
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.0	< 1.0	< 1.0	< 1.0	0.26	< 0.25	0.32	0.25	0.25	0.36	0.35	< 1.2	< 1.2
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 15.0	< 6.0	< 6.0	--	0.19	< 0.52	0.56	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	<1,000	< 1,000	< 1,000	< 1,000	360	380	360	260	410	320	310	280	270
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	**54**	**51**	**41**	**43**	**41**	28	20	21	29	24	22	**44**	25
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 5.0	< 5.0	< 5.0	< 5.0	1.1	1.6	1.8	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.661	< 0.820	< 0.185	< 0.140	0.146	0.05	0.43	0.40	0.16	0.636	0.25[U]	0.328	0.35
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	< 1.45	< 1.63	< 0.516	< 0.578	0.780	1.350	2.03	0.40	< 1	1.06	1.81	1.93	1.77
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.978	< 0.805	< 0.516	< 0.578	0.634	1.3	1.60	-0.80	-0.53	0.6	1.56	1.6	1.42
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	< 2.5	< 4	< 4	< 8	< 8	< 4	< 8	< 4	< 4
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	< 1	0.51	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	**1,700**	**1,700**	**2,100**	**1,800**	**1,400**	**1,600**	**2,500**	**1,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	< 50	0.63	0.72	0.61	< 1.2	< 1.2	< 6.2	< 6.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	< 0.2	1.6	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	19	9.3

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	3/28/2024	10/22/2024	4/22/2025	4/22/2025
Field Parameters													Field Dup
pH	su	--	--	--	--	--	--	--	--	7.15	7.02	7.04	7.04
Conductivity	µS/cm	--	--	--	--	--	--	--	--	2,040	1,820	1	1
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	0.02	3.99	3.99
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.21	0.13	0.16	0.16
Temperature	°C	--	--	--	--	--	--	--	--	11.4	14.5	11.7	11.7
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	39.3	-66.0	-32.0	-32.0
Appendix III													
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	860	1,100	1,000	1,000
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	160	180	180	180
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	330	300	79	79
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	300	< 200	310	300
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.15	7.02	7.04	7.04
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	70	51	42	42
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	1,200	1000	790	760
Appendix IV													
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.41	0.33	0.15	0.15
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	120	140	85	87
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	0.058	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 0.25	0.21	0.24	0.21
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.11	0.50	< 0.52	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	300	< 200	310	310
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	29	29	46	44
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.7	3.2	1.4	1.3
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.21	0.28^{U}	0.223^{J-}	0.591^{J+}
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.30	0.28^{U}	0.8^{J-}	1.51^{J+}
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.09	-0.8^{U}	0.576^{J-}	0.916^{J+}
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 0.5	< 0.5	< 0.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4	7.0	< 4	< 4
Michigan CCR													
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.22	0.43	< 0.25	< --
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**730**	**730**	**810**	**900**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 1.2	< 1.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	1	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	10	< 1.2	< 1.2	< 1.2

													Sample Location:							
													Compliance Phase:	Background Monitoring						
													Sample Dates:	12/1/2015	2/17/2016	4/13/2016	7/12/2016	9/28/2016	2/14/2017	4/5/2017	7/11/2017
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)								
Field Parameters																				
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	8.68	8.5	8.2	8.5	8.7	9.2	9.0	8.2
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	391	346	323	371	390	389	427	346
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	3.54	<1	<1	<1	<1	<1	<1	2.65
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.00	0.2	0.3	0.2	0.4	0.5	0.1	0.10
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	13.76	10.4	14.1	19.2	15.2	12.2	13.0	16.00
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	-322.4	-180.3	-145.7	-208.0	-100.0	-221.3	-198.5	-198.1
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	125	250	8.8	8.8	8.8	**1,680**	**1,420**	**1,340**	1,210	1,180	1,280	**1,340**	1,060
Calcium	mg/L	NC	NC	NC	500	259	259	500	1	1	0.3	2.6	1.3	53.0	47.6	36.9	47.3	48.0	47.9	52.0	42.2
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5	5	0.1	0.75	0.75	22.0	20.7	22.1	24.8	21.0	19.5	22.2	22.9
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	100	100	1,200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--	**8.68**	**8.5**	8.2	**8.5**	**8.7**	**9.2**	**9.0**	8.2
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	5	0.60	3	15	50.0	30.8	35.8	43.8	38.5	37.2	42.8	29.1
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10	10.0	10.0	20	20	270	230	210	240	230	230	240	224
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1	6	1	1.0	0.3	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**10**	1	1.0	0.6	0.55	0.55	5	3	3	4	6	7	8	<1
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1	1.0	2.5	2.5	2.5	36	29	25	30	31	31	32	30.7
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	1	<1	2	1	<1	<1	<1	<1
Cobalt	ug/L	6	40	100	100	15	15	15	15	1.0	0.5	0.52	0.52	<15	<15	<15	<15	<15	<15	<15	<15
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	100	100	1,200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Lead	ug/L	15	4	4	29	15	2	4	1	1.0	0.6	0.55	0.55	<1	<1	<1	<1	<1	<1	<1	<1
Lithium	ug/L	40	170	350	440	40	28	40	10	20.0	1.2	1.2	1.2	17.2	16	14	15	16	17	17	20
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2	0.20	0.2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5	1.0	1.2	1.2	1.2	20	29	35	26	27	25	22	21.4
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.230	1.0	0.52	1.0	<0.199	<0.141	<0.319	<0.166	<0.284	<0.160	<0.296	<1.12
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A	1.23	1.0	0.52	1.0	1.01	<0.447	<0.435	<0.402	<0.496	<0.394	<0.599	<2.07
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.999	1.0	0.43	1.0	0.956	<0.447	<0.435	<0.402	<0.496	<0.394	<0.599	<0.954
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1	1.0	0.5	0.5	0.5	<1	<1	<1	1	<1	<1	<1	<1
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.0	1.0	0.4	0.38	0.38	<2	<2	<2	<2	<2	<2	<2	<2
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--	--	200	30	7.5	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	--	--	--	--	--	--	--	--

										MW-15011													
										Detection	Initial A.M.	Assessment Monitoring											
										9/13/2017	4/16/2018	6/13/2018	11/28/2018	4/10/2019	9/25/2019	9/25/2019	5/7/2020	10/27/2020	10/27/2020	4/20/2021	4/20/2021	10/21/2021
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Downgradient													
Field Parameters																Field Dup			Field Dup		Field Dup		
pH	su	--	--	--	--	--	--	--	--	8.5	9.1	8.5	8.9	8.8	8.4	8.4	8.23	8.34	8.34	8.08	8.08	7.51
Conductivity	µS/cm	--	--	--	--	--	--	--	--	247	272	251	332	300	655	655	708	820	820	650	650	970
Turbidity	NTU	--	--	--	--	--	--	--	--	<1	3.5	1.2	0.71	2.5	1.25	1.25	46.18	0.14	0.14	0.02	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.11	0.25	0.34	0.45	0.12	0.38	0.38	0.13	0.19	0.19	0.5	0.5	4.77
Temperature	°C	--	--	--	--	--	--	--	--	15.07	12.5	18.3	12.22	13	14.9	14.9	13.8	13.1	13.1	13.2	13.2	13.9
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-127.8	-215.1	-25.9	55.5	-204.2	-179.1	-179.1	-248.7	-135.9	-135.9	-53.3	-53.3	-129.1
Appendix III																							
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	125	**1,490**	--	**1,630**	**1,650**	**1,600**	**1,600**	**1,600**	**1,870**	**1,500**	**1,400**	1,200	1,200	**2,000**
Calcium	mg/L	NC	NC	NC	500	259	259	500	1	23.9	--	22.6	29.5	41	63	63	90	120	120	98	98	170
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5	24.0	--	23.2	26.3	38	37	37	31	42	43	34	34	17
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	<1,000	<1,000	<1,000	< 1,000	< 1,000	< 1,000	< 1,000	180	250	240	230	240	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	**8.5**	**9.1**	**8.5**	**8.9**	**8.8**	8.4	--	8.4	8.34	8.34	8.08	8.08	7.51
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6.4	--	12.3	21.9	38	97	99	109	81	83	< 3	< 3	170
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10	140	--	244	182	260	380	400	464	610	600	410	430	520
Appendix IV																							
Antimony	ug/L	6	6	6	130	6	1	6	1	--	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**10**	1	--	6.4	1.5	7.3	9.3	< 1.0	< 1.0	0.84	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1	--	15.2	16.6	18.5	31	39	39	55	74	72	63	63	90
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	--	< 0.20	< 0.20	< 0.20	< 0.20	--	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.18	< 0.25	< 0.25	< 0.25	< 0.25	0.41
Cobalt	ug/L	6	40	100	100	15	15	15	15	--	< 15.0	< 15.0	< 6.0	< 6.0	--	--	0.15	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	<1,000	<1,000	<1,000	< 1,000	< 1,000	< 1,000	< 1,000	180	250	240	230	240	100
Lead	ug/L	15	4	4	29	15	2	4	1	--	< 1.0	< 1.0	< 1.0	< 1.0	--	--	0.041	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	28	40	10	--	21	11	18	18	13	13	20	24	23	27	27	9
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2	--	< 0.20	< 0.20	< 0.20	< 0.20	--	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5	--	8.9	5.8	13.9	15	< 5.0	< 5.0	1.3	1.4	1.3	1.8	1.7	4.3
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	--	< 0.742	0.350	< 0.771	0.226	0.272	< 0.192	0.209	0.15	0.33	0.89	0.37	0.54
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A	--	< 1.61	< 1.25	< 1.52	< 0.532	0.726	0.622	0.209	0.950	1.830	1.1	0.65	1.13
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	--	< 0.872	< 0.923	< 0.747	< 0.532	0.454	< 0.519	-0.278	0.8	1.5	0.21	-0.41	0.59
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.34	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.0	--	< 2.0	< 2.0	< 2.0	< 2.0	--	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	--	--	--	< 2.5	< 4	< 4	< 4	< 4	< 8
Michigan CCR																							
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	--	--	--	< 1	< 0.25	< 0.25	0.31
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--	--	--	--	--	--	--	--	--	--	< 200	140	110	260
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	--	--	--	< 50	< 0.25	< 0.25	12
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	--	--	--	< 10	1.2	< 1.2	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	10/21/2021
Field Parameters										Field Dup
pH	su	--	--	--	--	--	--	--	--	7.51
Conductivity	µS/cm	--	--	--	--	--	--	--	--	970
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	4.77
Temperature	°C	--	--	--	--	--	--	--	--	13.9
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-129.1
Appendix III										
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	125	**1,900**
Calcium	mg/L	NC	NC	NC	500	259	259	500	1	170
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5	17
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.51
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	170
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10	400
Appendix IV										
Antimony	ug/L	6	6	6	130	6	1	6	1	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**10**	1	< 0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1	90
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	0.41
Cobalt	ug/L	6	40	100	100	15	15	15	15	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 100
Lead	ug/L	15	4	4	29	15	2	4	1	< 0.55
Lithium	ug/L	40	170	350	440	40	28	40	10	8.8
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5	3.7
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.42
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A	1.14
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.72
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1	< 0.5
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.0	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	< 8
Michigan CCR										
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 0.25
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--	260
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	12
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	< 1.2

										Sample Location:	MW-15012												
										Compliance Phase:	Background Monitoring								Detection	Initial A.M.			
										Sample Dates:	12/1/2015	2/17/2016	4/13/2016	7/13/2016	9/29/2016	2/14/2017	4/5/2017	7/12/2017	9/13/2017	4/17/2018	6/13/2018	11/28/2018
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	Downgradient												
Field Parameters																							
pH	su	--	--	--	--	--	--	--	--	--	7.98	--	8.1	8.9	9.2	8.6	8.5	9.89	11.4	9.7	10.2	9.8
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	374	--	570	406	354	318	340	265	441	774	884	556
Turbidity	NTU	--	--	--	--	--	--	--	--	--	2.25	--	1.8	<1	<1	<1	<1	4.41	<1	0.5	0.8	0.66
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	0.49	--	0.2	0.4	0.5	0.6	0.4	0.12	0.12	0.24	0.34	0.34
Temperature	°C	--	--	--	--	--	--	--	--	--	14.33	--	14.2	19.9	14.7	12.2	12.6	15.20	15.91	12.3	18.3	12.04
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	0.8	--	-217.3	-179.0	-174.9	-186.8	-208.8	-297.0	-172.3	-345.6	-98.6	6.5
Appendix III																							
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	125	125.0	961	**1,390**	**1,830**	**1,450**	**1,470**	**1,380**	**1,500**	**1,340**	1,140	--	**1,450**	1,280
Calcium	mg/L	NC	NC	NC	500	259	259	500	1	5.0	49.5	82.1	65.5	44.5	43.5	32.0	34.9	24.6	48.7	--	95.1	55.7
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5	5.0	20.0	20.4	23.7	23.0	22.6	19.7	22.7	24.1	23.3	--	22.7	21.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100.0	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	1,200	1,100	<1,000	<1,000	< 1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	--	--	--	0.1	1.0	7.98	8.1	8.1	**8.9**	**9.2**	**8.6**	8.5	**9.89**	**11.4**	**9.7**	**10.2**	**9.8**
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	25.0	69.0	111	106	65.6	50.9	55.7	57.2	21.8	59.6	--	**355**	137
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10	20.0	300	370	340	250	210	190	200	168	318	--	902	302
Appendix IV																							
Antimony	ug/L	6	6	6	130	6	1	6	1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**10**	1	1.0	<1	2	8	**12**	9	2	3	6.1	--	1.8	3.4	1.3
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1	2	40	63	68	34	22	25	28	14.3	--	109	105	51.7
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	<1	<1	1	1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0
Cobalt	ug/L	6	40	100	100	15	15	15	15	1.0	<15	<15	<15	<15	<15	<15	<15	<15	--	< 15.0	< 15.0	< 6.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	1,200	1,100	<1,000	<1,000	< 1,000
Lead	ug/L	15	4	4	29	15	2	4	1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0
Lithium	ug/L	40	170	350	440	40	28	40	10	20.0	15.6	20.8	19	18	15	11	12	12	--	13	11	10
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2	0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5	2	29	9	35	37	44	35	27	**94.5**	--	50.8	71.3	28.3
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.312	<0.164	<0.243	<0.256	<0.216	<0.335	<0.153	<0.243	0.436	--	< 0.693	< 0.526	0.700
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A	1.26	<0.471	<0.634	0.919	<0.539	<0.548	<0.416	<0.554	<2.28	--	< 1.43	< 1.32	1.27
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.947	<0.471	<0.634	0.827	<0.539	<0.548	<0.416	<0.554	<2.08	--	< 0.733	< 0.789	< 0.992
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1	1.0	<1	<1	<1	<1	<1	<1	<1	1.2	--	1.2	3.3	< 1.0
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.0	1.0	<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0	< 2.0	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	--	--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																							
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--

										Sa			
										Com	Assessment Monitoring		
											4/10/2019	4/10/2019	9/25/2019	5/7/2020
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data					
Field Parameters												Field Dup		
pH	su	--	--	--	--	--	--	--	--		9.4	9.4	10.1	10.02
Conductivity	µS/cm	--	--	--	--	--	--	--	--		420	420	1,123	1,573
Turbidity	NTU	--	--	--	--	--	--	--	--		4.3	4.3	1.41	40.91
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--		0.65	0.65	0.37	0.13
Temperature	°C	--	--	--	--	--	--	--	--		13.3	13.3	15.1	13.5
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--		-218.4	-218.4	-288.7	-241.5
Appendix III														
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	125		1,300	1,300	1,300	**1,470**
Calcium	mg/L	NC	NC	NC	500	259	259	500	1		61	60	140	250
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5		20	20	22	21
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000		< 1,000	< 1,000	< 1,000	120
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1		**9.4**	--	**10.1**	**9.4**
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2		190	180	**540**	**768**
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10		380	380	850	1,260
Appendix IV														
Antimony	ug/L	6	6	6	130	6	1	6	1		< 1.0	< 1.0	--	0.18
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**10**	1		1.4	1.4	2.3	2.3
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1		79	79	190	234
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0		< 1.0	< 1.0	--	< 0.20
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2		< 0.20	< 0.20	--	0.029
Chromium	ug/L	100	100	100	11	100	3	11	1		< 1.0	< 1.0	< 1.0	< 1.0
Cobalt	ug/L	6	40	100	100	15	15	15	15		< 6.0	< 6.0	--	0.26
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000		< 1,000	< 1,000	< 1,000	120
Lead	ug/L	15	4	4	29	15	2	4	1		< 1.0	< 1.0	--	< 1.0
Lithium	ug/L	40	170	350	440	40	28	40	10		12	12	< 10	26.6
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2		< 0.20	< 0.20	--	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5		26	26	**75**	**245**
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A		< 0.142	0.219	0.241	0.125
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A		< 0.485	0.514	0.776	0.125
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A		< 0.485	< 0.481	< 0.551	-0.219
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1		< 1.0	< 1.0	2.2	1.4
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.0		< 2.0	< 2.0	--	< 1.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5		--	--	--	< 2.5
Michigan CCR														
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--		--	--	--	--
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--		--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--		--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--		--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--		--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--		--	--	--	--

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)
Field Parameters																			
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	125	8.8	8.8	8.8	8.8	8.8	44	44	8.8	44
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	2.6	1.3	2.6	2.6	1.3	1.3	2.6	1.3
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5	0.1	1	0.75	0.75	0.75	0.75	0.75	0.75	1.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	4,000	150	100	100	100	100	100	100	200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	5	0.60	3	15	15	3	3	3	3	15
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	20	20	20	20	10	40	50
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	4,000	150	100	100	100	100	100	100	200
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	2.5	12	2.5	12
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.234	1.0	0.32	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.52	1.0	0.41	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.29	1.0	0.41	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	20.0	4.0	8.0	7.7	8.0	4.0	4	4	4.0
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	250	250	50	250
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2

										Sample Location:												
										Compliance Phase:	Background Monitoring								Detection	Initial A.M.	
										Sample Dates:	12/1/2015	2/18/2016	4/13/2016	7/13/2016	9/29/2016	2/14/2017	4/5/2017	7/12/2017	9/13/2017	4/17/2018	4/17/2018
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 04/2025)												
Field Parameters																						Field Dup
pH	su	--	--	--	--	--	--	--	--	--	7.61	7.2	7.4	7.3	7.4	7.7	7.4	7.36	7.9	7.6	7.6
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	528	436	400	392	449	444	435	417	320	423	423
Turbidity	NTU	--	--	--	--	--	--	--	--	--	1.59	<1	<1	<1	<1	1.2	<1	3.97	<1	1.6	1.6
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	0.07	0.4	0.3	0.4	0.5	0.4	0.1	0.13	0.12	0.28	0.28
Temperature	°C	--	--	--	--	--	--	--	--	--	14.25	8.7	13.5	15.8	14.4	12.4	13.0	14.80	15.46	12.4	12.4
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	-262.9	-119.7	-130.3	-117.9	-118.8	-161.6	-137.0	-169.9	-122.3	-91.5	-91.5
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	8.8	1,140	1,290	1,180	1,080	1,090	1,050	1,120	916	1,270	--	--
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	0.26	65.2	58.3	47.5	48.4	59.7	52.5	50.9	43.9	34.4	--	--
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	21.0	20.9	21.5	21.0	22.9	19.8	19.9	23.4	21.2	--	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	< 1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	7.61	7.2	7.4	7.3	7.4	7.7	7.4	7.36	7.9	7.6	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6	89.0	44.3	34.3	27.5	31.3	23.1	15.1	8.7	59.9	--	--
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	40	330	290	260	250	250	260	250	240	192	--	--
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	71	58	49	47	51	52	48	41.9	--	43.3	44.7
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	<1	<1	2	1	<1	<1	<1	<1	--	< 1.0	< 1.0
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	<15	<15	<15	<15	<15	<15	<15	<15	--	< 15.0	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	< 1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	10	12	17.5	19.9	18	17	18	18	17	23	--	27	28
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	17	20	21	12	11	10	9	7.7	--	< 5.0	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	0.272	<0.299	0.173	<0.181	<0.215	<0.230	<0.215	0.731	--	< 0.505	< 0.506
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.19	<0.527	0.900	0.596	<0.598	<0.481	<0.516	<1.56	--	< 1.14	< 1.29
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	0.914	<0.527	0.727	0.483	<0.598	<0.481	<0.516	<0.940	--	< 0.633	< 0.780
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	<1	<1	<1	1	<1	<1	<1	<1	--	< 1.0	< 1.0
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	250	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--

										MW-15013												
										Assessment Monitoring												
										6/13/2018	6/13/2018	11/29/2018	4/11/2019	9/25/2019	5/7/2020	10/28/2020	4/21/2021	10/21/2021	5/5/2022	10/19/2022	4/12/2023	10/3/2023
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Downgradient												
Field Parameters											Field Dup											
pH	su	--	--	--	--	--	--	--	--	7.7	7.7	7	7.3	8	8.8	7.72	7.74	7.33	7.17	7.11	7.05	7.13
Conductivity	µS/cm	--	--	--	--	--	--	--	--	400	400	321	304	400	695	432	740	1,000	850	740	850	830
Turbidity	NTU	--	--	--	--	--	--	--	--	1.2	1.2	0.63	3.1	0.76	105.32	0.02	0.02	0.02	1.96	1.48	0.84	7.38
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.41	0.41	0.89	0.08	0.35	0.15	0.15	0.43	0.04	0.04	0.02	0.12	0.21
Temperature	°C	--	--	--	--	--	--	--	--	18.3	18.3	11.85	12	14.8	13.4	13.5	13.3	14.4	13.6	14.0	13	16.8
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-17.8	-17.8	70.6	-126.9	-209.3	-211.8	-136.1	-115.7	-207.1	-296.4	-128.0	-170	-114.7
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	1,130	1,100	1,070	1,200	1,300	1,230	1,100	**1,400**	**1,500**	**1,400**	890	1,000	780
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	47.3	48.9	50.8	50	45	66	52	120	160	120	100	110	110
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	21.5	21.6	21.3	21	24	21	24	23	27	41	46	44	40
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	<1,000	< 1,000	< 1,000	< 1,000	< 1,000	280	490	270	170	< 100	< 100	140	97
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.7	--	7.0	7.3	8.0	8.7	7.7	7.74	7.33	7.2	7.11	7.05	7.13
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	8.7	7.9	5.9	4.8	53	226	6	< 3	100	110	54	20	70
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	324	268	210	260	250	451	310	430	660	410	480	470	490
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 0.55	< 0.55	0.78	< 0.55	< 0.55	< 2.8	< 2.8
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	43.9	41.1	39.5	45	31	40	48	88	140	76	120	140	120
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.0	< 1.0	< 1.0	< 1.0	1.0	0.1	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 15.0	< 15.0	< 6.0	< 6.0	--	0.082	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	<1,000	< 1,000	< 1,000	< 1,000	< 1,000	280	490	270	170	< 100	< 100	140	97
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	24	24	23	17	13	17	24	17	21	37	35	38	31
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 5.0	< 5.0	5.0	5.7	9.9	**77.2**	3.7	1.6	3.2	2	< 1.2	< 6.2	< 6.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.546	< 0.585	< 0.696	< 0.232	< 0.201	0.495	0.19	0.37	0.57	0.16	0.32	0.12	0.338
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	< 1.30	< 1.49	< 1.42	< 0.450	0.508	0.495	1.060	0.83	0.57	0.16	0.95^{U}	0.36	0.996^{J+}
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.754	< 0.903	< 0.728	< 0.450	< 0.482	-1.76	0.87	0.46	0.18	0.09	0.63^{U}	0.24	0.658^{UJ}
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	--	< 2.5	< 20	4	10	< 7.7	< 8.0	< 4	< 4
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	< 1	< 0.25	< 0.25	0.26	< 0.25	< 1.2	3.3
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	--	**900**	**2,200**	**5,100**	**1,400**	**1,300**	**1,400**	**700**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	< 50	< 0.25	< 0.25	0.35	< 1.2	< 6.2	< 6.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	15	11

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	3/28/2024	10/24/2024	4/24/2025
Field Parameters												
pH	su	--	--	--	--	--	--	--	--	7.46	7.51	7.55
Conductivity	µS/cm	--	--	--	--	--	--	--	--	700	1180	0.577
Turbidity	NTU	--	--	--	--	--	--	--	--	2.21	1.07	2.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.01	0.05	0.19
Temperature	°C	--	--	--	--	--	--	--	--	10.4	13.2	11.1
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	104.7	18.3	-85
Appendix III												
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	700	830	660
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	97	220	79
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	48	39	48
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	230	< 200	130
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.46	7.51	7.55
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	74	360	48
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	460	810	360
Appendix IV												
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.2	0.24	2
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	93	180	75
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	< 0.25	0.28
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 0.25	< 0.25	2.5
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.11	0.12	0.35
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	230	< 200	130
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	< 0.55	4.7
Lithium	ug/L	40	170	350	440	40	48	48	10	28	46	27
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	0.62^{J+}	1.1	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.181	0.52	0.0625
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.06	0.52^{U}	0.447
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.879	0.11^{U}	0.384
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 0.5	< 0.5	0.28
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 0.38	0.14
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	< 4.0	240.0
Michigan CCR												
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 0.25	0.27	5.1
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**420**	**290**	**2,700**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 1.2	1.8	1.5
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	< 1.2	5.3
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	8.3	7.2	3.3

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	Sample Location:							
														Compliance Phase:	Background Monitoring						
														Sample Dates:	12/1/2015	2/18/2016	4/18/2016	7/13/2016	9/29/2016	2/14/2017	4/5/2017	7/12/2017
Field Parameters																					
pH	su	--	--	--	--	--	--	--	--	--	--	--	--		11.53	11.6	11.2	11	11.1	11.5	11.3	11.5
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--		605	642	654	676	590	576	568	761
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--		3.47	<1	1	1.6	<1	<1	<1	4.76
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--		0.17	0.1	0.2	0.3	0.4	0.4	0.3	0.14
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--		15.87	10.8	13.6	14.8	12.4	10.9	10.5	14.00
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--		-308.7	-215.0	-221.3	-205.9	-242.5	-226.2	-237.2	-315.6
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	125	250	8.8	8.8	8.8		**2,560**	**2,230**	**1,840**	**1,630**	**1,690**	**1,530**	**1,560**	**1,300**
Calcium	mg/L	NC	NC	NC	500	259	259	500	1	1	0.3	0.26	1.3		75.6	75.3	63.9	73.5	64.7	66.3	65.3	61.8
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5	2.5	0.1	1	0.75		21.0	21.9	21.9	22.0	22.7	18.6	22.1	22.4
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	4,000	150	100		<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--		**11.53**	**11.6**	**11.2**	**11**	**11.1**	**11.5**	**11.3**	**11.5**
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3	60		43.0	34.7	31.4	35.6	23.7	27.8	23.9	24.9
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10	10.0	10.0	20	20		350	310	270	290	250	280	270	292
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1	6	1	1.0	0.3	0.25	0.25		<1	<1	<1	<1	<1	<1	<1	1.7
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**10**	1	1.0	0.6	0.55	0.55		**15**	**11**	**11**	8	9	7	7	8.4
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1	5	2.5	2.5	2.5		329	376	257	508	357	571	546	**732**
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25		<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25		<1	2	1	1	<1	<1	<1	<1
Cobalt	ug/L	6	40	100	100	15	15	15	15	1.0	0.5	0.52	0.52		<15	<15	<15	<15	<15	<15	<15	<15
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	4,000	150	100		<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Lead	ug/L	15	4	4	29	15	2	4	1	1.0	0.6	0.55	0.55		<1	<1	<1	<1	<1	<1	<1	<1
Lithium	ug/L	40	170	350	440	40	28	40	10	20.0	1.2	1.2	1.2		<10	<10	<10	<10	<10	<10	<10	19
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2	0.20	0.2	0.2	0.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5	1.0	1.2	1.2	6.2		**119**	**76**	58	69	**81**	**80**	**77**	70.9
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.237	1.0	0.37	1.0		<0.176	<0.175	<0.177	0.214	<0.218	<0.211	<0.289	<0.511
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A	0.989	1.0	0.39	1.0		1.31	<0.735	<0.562	<0.606	<0.485	0.883	<0.423	<1.58
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.752	1.0	0.39	1.0		1.23	<0.735	<0.562	<0.606	<0.485	0.810	<0.423	<1.07
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1	1.0	0.5	0.5	0.5		<1	1	<1	<1	<1	1	**8**	2.3
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.0	1.0	0.4	0.38	0.38		<2	<2	<2	<2	<2	<2	<2	<2
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	20.0	4.0	8.0		--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25		--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--	--	200	7.5	7.5		--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25		--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05		--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2		--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2		--	--	--	--	--	--	--	--

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	MW-15014											Abandoned February 2022
										Detection	Initial A.M.	Assessment Monitoring									
										9/13/2017	4/17/2018	6/13/2018	11/29/2018	4/11/2019	4/11/2019	9/25/2019	5/6/2020	10/28/2020	4/21/2021	10/21/2021	
										Downgradient											
Field Parameters															Field Dup						
pH	su	--	--	--	--	--	--	--	--	12	11.6	11.4	11.5	11.3	11.3	11.3	11.07	11.11	10.99	9.99	
Conductivity	µS/cm	--	--	--	--	--	--	--	--	679	554	474	391	373	373	524	476	1650	391	1340	
Turbidity	NTU	--	--	--	--	--	--	--	--	1.65	2.9	2.2	2.39	3.6	3.6	0.25	144.5	22.7	2.31	0.02	
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.09	0.21	0.27	0.36	0.04	0.04	0.32	0.1	0.04	0.28	0.49	
Temperature	°C	--	--	--	--	--	--	--	--	15.11	11.6	17.9	10.14	11.8	11.8	14.6	13.4	12.9	12.1	14.2	
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-185.6	-155.1	-71.2	-33.7	-263.5	-263.5	-286.5	-389.2	-274.6	-143.6	-278.2	
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	125	**1,410**	--	**1,370**	**1,400**	**1,500**	**1,600**	**1,400**	**1,330**	1,000	1,100	1,200	
Calcium	mg/L	NC	NC	NC	500	259	259	500	1	57.8	--	50.8	51.1	49	53	50	43	350	40	240	
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5	22.5	--	21.3	20.5	20	22	23	24	24	22	22	
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	<1,000	<1,000	<1,000	< 1,000	< 1,000	< 1,000	< 1,000	330	330	160	< 100	
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	**12.0**	**11.6**	**11.4**	**11.5**	**11.3**	--	**11.3**	11.1	11.1	11.0	10.0	
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	19.2	--	2.4	12.4	12	14	25	12	**870**	59	**770**	
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10	282	--	338	224	260	290	250	212	1,600	220	1,000	
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1	6	1	--	1.1	< 1.0	< 1.0	< 1.0	< 1.0	--	0.43	< 0.25	0.5	0.52	
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**10**	1	--	6.2	5.5	4.0	3.8	4.0	2.6	2.5	2.1	4.3	1.3	
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1	--	**779**	607	604	620	630	560	468	480	130	410	
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25	< 0.25	< 0.25	
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	0.25	
Chromium	ug/L	100	100	100	11	100	3	11	1	--	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	0.17	< 0.25	< 0.25	< 0.25	
Cobalt	ug/L	6	40	100	100	15	15	15	15	--	< 15.0	< 15.0	< 6.0	< 6.0	< 6.0	--	0.081	< 0.5	< 0.52	< 0.52	
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	<1,000	<1,000	<1,000	< 1,000	< 1,000	< 1,000	< 1,000	330	330	160	< 100	
Lead	ug/L	15	4	4	29	15	2	4	1	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	0.11	< 0.55	< 0.55	< 0.55	
Lithium	ug/L	40	170	350	440	40	28	40	10	--	27	16	21	12	11	23	21	35	10	**150**	
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5	--	**94.7**	**100**	**106**	**120**	**110**	**99**	**88**	44	11	**1,400**	
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	--	< 1.11	< 1.17	< 1.52	< 0.192	< 0.182	< 0.185	0.143	0.15	0	0.29	
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A	--	< 2.08	< 3.02	< 3.25	< 0.538	< 0.379	< 0.513	0.369	1.06	< 0.39	1.03	
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	--	< 0.972	< 1.85	< 1.73	< 0.538	< 0.379	< 0.513	0.225	0.91	0.26	0.74	
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1	--	1.2	1.2	2.6	**5.2**	2.6	4.7	3.9	0.7	< 0.5	< 0.5	
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.0	--	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	--	--	--	< 2.5	5	< 4	< 8	
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	--	--	< 1	< 0.25	0.37	
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--	--	--	--	--	--	--	--	--	< 200	11	20	
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	--	--	< 50	0.29	0.43	
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	--	--	< 10	11	5.9	
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	

Sample Location:
Compliance Phase:
Sample Dates: 2/1/2022

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	MDL (Trace)	RDL (Trace 2/2022)	RDL (Trace 3/2022)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)	RDL (Trace 04/2025)	
Field Parameters																			
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.14
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,400
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.32
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.9
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-119
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	0.018	0.018	8.8	8.8	8.8	8.8	44	44	44	8.8	**1,400**
Calcium	mg/L	NC	NC	NC	500	260	260	500	2.6	2.6	2.6	5.1	26	1.3	1.3	1.3	1.3	1.3	460
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	0.75	0.75	0.75	0.75	15	7.5	7.5	3.8	1.5	1.5	27
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	100	100	100	100	100	100	100	100	200	200	270
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	1	--	--	--	--	--	--	--	--	--	7.14
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	120	120	150	60	60	30	30	15	30	30	**1,700**
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	20	20	10	20	20	20	38	40	50	40	2,900
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1.2	1.2	0.25	0.25	0.25	1.2	1.2	0.25	0.25	0.25	<1.2
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	0.55	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55	0.55	2
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	12	12	2.5	2.5	2.5	12	12	2.5	2.5	2.5	190
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25	0.25	<0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	1.2	1.2	0.25	0.25	0.25	1.2	1.2	0.25	0.25	0.25	<1.2
Chromium	ug/L	100	100	100	11	100	3	11	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25	0.25	<0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	0.52	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52	0.52	<0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	100	100	100	100	100	100	100	100	200	200	270
Lead	ug/L	15	4	4	29	15	2	15	2.8	2.8	0.55	0.55	0.55	2.8	2.8	0.55	0.55	0.55	<2.8
Lithium	ug/L	40	170	350	440	40	48	48	2.5	2.5	2.5	2.5	2.5	2.5	12	2.5	12	12	**67**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	<0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	6.2	6.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2	1.2	11
Radium-226	pCi/L	5	NC	NC	NC	--	--	--		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.44
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.76
Radium-228	pCi/L	5	NC	NC	NC	--	--	--		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.32
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5	0.5	<0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2	1.9	0.38	0.38	0.38	1.9	1.9	0.38	0.38	0.38	<1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	4	15.0	8.0	8.2	8.0	4.0	4	4	4.0	4.0	15
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25	0.25	<0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	50	50	50	50	50	50	250	50	250	250	**1,600**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	0.25	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2	1.2	3
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	0.25	0.25	0.05	0.05	0.05	0.25	0.25	0.05	0.05	0.05	<0.25
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2	1.2	<1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2	1.2	<1.2

										MW-15014R								
										Background Monitoring								
										3/10/2022	5/4/2022	10/19/2022	4/11/2023	4/11/2023	10/3/2023	3/28/2024	10/23/2024	4/24/2025
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	MDL (Trace)	Downgradient								
Field Parameters														Field Dup				
pH	su	--	--	--	--	--	--	--	--	7	7.18	7.10	6.83	6.83	6.97	7.12	7.04	7.11
Conductivity	µS/cm	--	--	--	--	--	--	--	--	2,820	2,620	1,270	2,140	2,140	2,280	1,820	2,000	1,419
Turbidity	NTU	--	--	--	--	--	--	--	--	7.93	3.98	0.02	0.87	0.87	1.31	0.63	1.17	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.08	0.04	0.02	0.14	0.14	0.09	0.01	0.08	0.47
Temperature	°C	--	--	--	--	--	--	--	--	13.0	13.9	10.9	13.6	13.6	14.8	12	13.9	14
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-110	-90.2	-130.4	-116.2	-116.2	-132.5	117.6	-118.9	-87.7
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	0.018	1,300	**1,500**	**1,400**	**1,600**	**1,600**	**1,500**	1,300	**1,400**	**1,400**
Calcium	mg/L	NC	NC	NC	500	260	260	500	2.6	340	350	340	300	300	330	290	320	300
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	0.75	28	28	98	130	120	280	140	130	77
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	100	300	270	180	250	200	200	290	< 200	290
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	1	7	7.02	7.10	6.83	6.83	6.97	7.12	7.04	7.11
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	120	**1,400**	**1,300**	**1,100**	**510**	**520**	**250**	**350**	**410**	**530**
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	20	2,300	1,600	1,800	1,400	*2,000 R*	1,500	1,400	1400	1,400
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1.2	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	< 2.8	0.28	0.26	0.2
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	12	160	170	170	170	160	200	160	180	160
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 1.2	< 0.25	0.1	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	1.2	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 1.2	< 0.25	< 0.25	0.43
Cobalt	ug/L	6	40	100	100	6	1.2	6	0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6	< 2.6	< 0.52	0.13	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	100	300	270	180	250	200	200	290	< 200	290
Lead	ug/L	15	4	4	29	15	2	15	2.8	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	< 2.8	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	2.5	36	39	**43**	**130**	**130**	**56**	**48**	**48**	**48**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	6.2	3	3.3	2.0	< 6.2	< 6.2	< 6.2	0.68^{J+}	1.1	1.9
Radium-226	pCi/L	5	NC	NC	NC	--	--	--		0.670	0.72	0.11^{U}	0.283	0.309	0.24^{U}	0.348	0.54^{U}	0.3
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5		0.670	0.72	0.23^{U}	0.452^{U}	0.642^{U}	1.45	1.43	0.75^{U}	0.431
Radium-228	pCi/L	5	NC	NC	NC	--	--	--		0.250	-0.03	0.12^{U}	0.17^{U}	0.333^{U}	1.21	1.08	0.21^{U}	0.131
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	< 2.5	< 0.5	0.11	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	< 1.9	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	4	18	35	30^{J}	28^{J+}	*< 4 UR*	30	14	26	6
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	0.25	1.8000	0.29	< 0.25	< 1.2	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	50	**1,200**	**1,200**	**1,200**	**1,200**	**1,200**	**1,200**	**6,100**	**7,300**	**5,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	0.25	2.5	2	< 1.2	< 6.2	< 6.2	< 6.2	< 1.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	0.25	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.25	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 6.2	< 1.2	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	1.2	< 1.2	< 1.2	< 1.2	16	16	13	13	7	< 1.2

										Sample Location:	MW-15015												
										Compliance Phase:	Background Monitoring									Detection Monitoring		Initial A.M.
										Sample Dates:	12/1/2015	2/18/2016	4/13/2016	7/13/2016	9/29/2016	2/14/2017	4/5/2017	7/12/2017	7/12/2017	9/13/2017	9/13/2017	4/17/2018
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	Downgradient												
Field Parameters																			Field Dup		Field Dup		
pH	su	--	--	--	--	--	--	--	--	--	7.56	7.4	7.4	7.4	7.8	7.7	7.6	8.35	8.35	8.7	8.7	8.3
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	313	298	296	318	349	354	369	329	329	340	340	407
Turbidity	NTU	--	--	--	--	--	--	--	--	--	1.84	<1	<1	<1	<1	<1	1.2	1.77	1.77	<1	<1	1.2
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	0.02	0.2	0.2	0.3	0.4	0.4	0.1	0.14	0.14	0.07	0.07	0.24
Temperature	°C	--	--	--	--	--	--	--	--	--	14.51	9.4	12.5	15.8	13.6	10.8	11.1	14.10	14.10	15.06	15.06	11.2
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	-299.8	-230.1	-222.5	-140.4	-152.8	-201.7	-170.2	-222.6	-222.6	-183.4	-183.4	-125.4
Appendix III																							
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	125	50	1,190	1,170	963	614	656	662	599	489	678	433	433	--
Calcium	mg/L	NC	NC	NC	500	259	259	500	1	1	32.8	33.0	30.6	36.2	40.1	38.4	37.6	29.4	32.3	36.9	36.9	--
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5	5	21.0	22.0	21.6	20.4	19.5	19.2	22.7	20.1	20.0	20.3	20.3	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	<1,000	< 1,000	<1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	--	--	--	0.1	1	7.56	7.4	7.4	7.4	7.8	7.7	7.6	8.35	--	**8.7**	**8.7**	8.3
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	5	7.80	6.56	8.34	13.9	9.26	10.4	13.8	18.8	17.9	16.1	16.1	--
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10	10.0	220	200	190	180	180	200	190	166	190	192	192	--
Appendix IV																							
Antimony	ug/L	6	6	6	130	6	1	6	1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**10**	1	1.0	2	2	2	6	5	5	6	6.4	7.6	--	--	4.7
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1	1.0	23	22	21	25	28	30	28	30.1	33.6	--	--	39.9
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	<1	<1	1	1	<1	<1	<1	<1	<1	--	--	< 1.0
Cobalt	ug/L	6	40	100	100	15	15	15	15	1.0	<15	<15	<15	<15	<15	<15	<15	<15	<15	--	--	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	<1,000
Lead	ug/L	15	4	4	29	15	2	4	1	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	< 1.0
Lithium	ug/L	40	170	350	440	40	28	40	10	20.0	<10	<10	<10	<10	<10	<10	<10	12	11	--	--	16
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2	0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5	1.0	17	14	17	11	10	9	11	11.9	13.0	--	--	9.4
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.279	<0.193	<0.157	<0.242	<0.133	<0.378	<0.166	<0.340	<0.832	< 0.698	--	--	< 0.467
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A	1.2	<0.578	<0.577	<0.521	<0.467	0.850	<0.408	<0.420	<1.63	< 1.45	--	--	< 1.20
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.917	<0.578	<0.577	<0.521	<0.467	0.850	<0.408	<0.420	<0.799	< 0.748	--	--	< 0.730
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1	1.0	<1	<1	<1	1	<1	<1	<1	<1	<1	--	--	< 1.0
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.0	1.0	<2	<2	<2	<2	<2	<2	<2	<2	<2	--	--	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	--	--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																							
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	--	--	--	--	--	--	--

										Assessment Monitoring				
										6/13/2018	11/29/2018	4/11/2019	9/26/2019	5/6/2020
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data					
Field Parameters														
pH	su	--	--	--	--	--	--	--	--	7.9	7.8	7.6	8.4	7.96
Conductivity	µS/cm	--	--	--	--	--	--	--	--	408	345	419	444	944
Turbidity	NTU	--	--	--	--	--	--	--	--	1.5	0.81	7.5	0.77	3.8
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.33	0.29	0.05	0.4	0.2
Temperature	°C	--	--	--	--	--	--	--	--	16.4	10.91	10.2	13.5	12.8
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	11.3	-0.4	-190	-239	-304.5
Appendix III														
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	125	398	505	630	510	512
Calcium	mg/L	NC	NC	NC	500	259	259	500	1	45.0	50.8	68	46	128
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5	19.5	17.8	20	17	19
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	<1,000	< 1,000	< 1,000	< 1,000	140
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	--	--	--	0.1	7.9	7.8	7.6	8.4	8.1
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	12.6	13.2	88	69	**291**
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10	316	238	360	250	646
Appendix IV														
Antimony	ug/L	6	6	6	130	6	1	6	1	< 1.0	< 1.0	< 1.0	--	0.18
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**10**	1	5.5	4.3	4.3	5.7	6.6
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1	37.9	41.0	63	44	135
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	--	< 0.20
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.20	< 0.20	--	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.0	< 1.0	< 1.0	< 2.0	0.16
Cobalt	ug/L	6	40	100	100	15	15	15	15	< 15.0	< 6.0	< 6.0	--	0.16
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	<1,000	< 1,000	< 1,000	< 1,000	140
Lead	ug/L	15	4	4	29	15	2	4	1	< 1.0	< 1.0	< 1.0	--	0.074
Lithium	ug/L	40	170	350	440	40	28	40	10	13	14	11	< 10	21.7
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2	< 0.20	< 0.20	< 0.20	--	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5	7.0	7.2	11	< 10	9.6
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.475	< 0.677	< 0.224	< 0.165	0.932
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A	< 1.24	< 1.75	< 0.518	< 0.491	0.932
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.763	< 1.07	< 0.518	< 0.491	-1.49
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1	< 1.0	< 1.0	< 1.0	< 2.0	0.39
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.0	< 2.0	< 2.0	< 2.0	--	< 1.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	< 2.5
Michigan CCR														
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--

Abandonded

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Pace 5/21)	RDL (Pace 6/15)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)
Field Parameters																			
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	50	50	8.8	8.8	44	8.8	8.8	8.8	44	44	88
Calcium	mg/L	NC	NC	NC	500	260	260	500	3	5	0.3	2.6	1.3	13	26	1.3	1.3	1.3	2.6
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	2.5	2.5	0.1	1	0.75	0.75	0.75	0.75	0.75	0.75	1.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	100	100	20.0	150	100	100	100	100	100	100	200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	1	1	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	25	25	0.60	30	60	60	60	60	60	60	60
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	20	20	10.0	20	40	40	20	20	40	40	50
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1.0	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1.0	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1.0	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.20	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.20	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1.0	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	1.0	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	100	100	20.0	150	100	100	100	100	100	100	200
Lead	ug/L	15	4	4	29	15	2	15	1.0	1.0	0.6	0.55	2.8	0.55	0.55	2.8	2.8	0.55	0.55
Lithium	ug/L	40	170	350	440	40	48	48	20.0	20.0	1.2	1.2	1.2	2.5	2.5	2.5	12	2.5	25
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.20	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.0	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	0.242	0.338	1.0	0.37	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.08	1.26	1.0	0.47	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	0.839	0.918	1.0	0.47	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1.0	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	1.0	1.0	0.4	0.38	1.9	0.38	0.38	1.9	1.9	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	8.0	8.0	4.0	4	4	4.0
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	50	250	50	500
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Trace 04/2025)	Sample Location:	Compliance Phase:	Sample Dates:											
										MW-15015R													
										Assessment Monitoring													
										Downgradient													
										5/21/2020	6/15/2020	10/30/2020	4/21/2021	10/21/2021	5/4/2022	10/19/2022	4/11/2023	4/11/2023	10/3/2023	3/28/2024	10/23/2024	4/24/2025
Field Parameters																		Field Dup					
pH	su	--	--	--	--	--	--	--	--	7.67	6.84	7.89	7.41	7.5	7.37	7.20	7.07	7.07	7.19	7.15	7.09	7.04
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,721	1,010	1,570	1,680	2,200	2,990	2,200	2,850	2,850	2,430	2,370	2,800	2,184
Turbidity	NTU	--	--	--	--	--	--	--	--	5.05	6.78	2.96	0.02	0.02	6.5	1.98	2.49	2.49	0.36	7.62	0.23	9.29
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.23	0.1	0.66	0.13	0.09	0.23	0.02	0.79	0.79	0.1	0.12	0.08	0.3
Temperature	°C	--	--	--	--	--	--	--	--	13.3	11.7	14.2	11.9	13.5	10.7	13.2	11.6	11.6	14	10.7	14.2	12.6
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-151.9	-321.1	-233.3	-83.4	-142	-50	-108.9	-81	-81	-119.4	122.4	-90.2	-54.5
Appendix III																							
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	8.8	718	675	870	1,100	**1,400**	**1,600**	**1,400**	**2,000**	**1,900**	**1,600**	**1,700**	**2,200**	**2,100**
Calcium	mg/L	NC	NC	NC	500	260	260	500	2.6	282	228	240	250	330	**510**	340	**510**	460^{J}	430	400	540	580
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	1.5	17	17	20	21	24	29	25	33	32	26	29	37	45
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	200	84	12	140	180	< 100	110	< 100	< 100	< 100	110	< 100	< 200	< 200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	--	7.7	7.8	7.9	7.41	7.5	7.49	7.20	7.07	7.07	7.19	7.15	7.09	7.04
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	60	**825**	**636**	**670**	**670**	**1,200**	**1,700**	**1,300**	**1,400**	**1,300**	**1,100**	**1,100**	**1300**	**1,700**
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	40	1,460	1,140	1,200	1,300	860	1,600	2,000	2,400	2,300	2,000	2,300	2400	2,800
Appendix IV																							
Antimony	ug/L	6	6	6	130	6	1.4	6	0.25	< 1.0	< 1.0	< 0.25	< 0.25	< 0.25	4	0.85	13^{J+}	6.9^{J-}	< 1.2	1.7	0.41	0.62
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	0.55	**12.7**	8.8	**12.0**	3.2	8.6	**25**	**24**	**38**	**37**	**19**	**23**	**43**	**55**
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	2.5	107	108	140	150	120	120	170	83	79	150	60	82	66
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.25	< 0.20	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 1.2	< 0.25	0.058	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.25	< 0.20	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	0.25	0.22	< 1.0	< 0.25	0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	0.52	0.42	0.31	< 0.5	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6	< 2.6	0.22	0.21	0.15
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	200	84	12	140	180	< 100	110	< 100	< 100	< 100	110	< 100	< 200	< 200
Lead	ug/L	15	4	4	29	15	2	15	2.8	< 1.0	< 1.0	< 0.55	< 0.55	< 2.8	< 0.55	< 0.55	< 2.8	< 2.8	< 2.8	< 0.55	< 0.55	< 2.8
Lithium	ug/L	40	170	350	440	40	48	48	25	36	23.2	27	3.8	**55**	**40**	**41**	**120**	**140**	**52**	**48**	**58**	**67**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.2	27.7	23.1	18	4.4	2	**430**	**240**	**230**	**180**	30	**240**	**180**	**140**
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	1.0	0.394	0.166	0.09	0.13	0.25	0.12	0.33	0.398^{J+}	0.24^{J-}	0.398	0.148^{U}	0.16^{U}	0.15
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.0	0.918	2.12	0.58	< 0.47	0.25	< 1	1.58	2.05^{J+}	0.892^{J-}	0.998^{J+}	0.63^{U}	0.46^{U}	0.681
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	1.0	0.524	1.95	0.49	0.1	-2.16	-0.13	1.25	1.65^{J+}	0.652^{J-}	0.601^{J+}	0.482	0.3^{U}	0.531
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	0.5	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	1.1	1.0	< 2.5	< 2.5	< 2.5	0.27	0.29	0.24
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	1.9	< 1.0	< 1.0	< 0.38	< 0.38	< 1.9	< 0.38	< 0.38	< 1.9	< 1.9	< 1.9	< 0.38	< 0.38	< 1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	4.0	4	< 2.5	< 4	9	46	10	16	5	6	31	4	17	12
Michigan CCR																							
Copper	ug/L	--	--	--	--	--	--	13 or UTL	0.25	--	--	< 1	< 0.25	< 0.25	0.91	0.42	< 1.2	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	500	--	--	**390**	**660**	**24,000**	**3,600**	**8,400**	**4,100**	**4,100**	**16,000**	**3,000**	**5,000**	**8,900**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	1.2	--	--	< 50	< 0.25	< 0.25	0.65	< 1.2	< 6.2	< 6.2	< 6.2	1.2	0.7	0.82
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	0.05	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.25	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	1.2	--	--	< 10	9.4	< 1.2	660	66	240^{J+}	150^{J-}	19	34	51	31
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	1.2	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	9.5	8.4	10	4.3	2.5	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	Sample Location:	MW-15016										
											Compliance Phase:	Background Monitoring								Detection	Initial A.M.	
											Sample Dates:	12/1/2015	2/18/2016	4/13/2016	7/13/2016	9/29/2016	2/14/2017	4/5/2017	7/12/2017	9/13/2017	4/17/2018	6/12/2018
												Downgradient										
Field Parameters																						
pH	su	--	--	--	--	--	--	--	--	--		6.55	6.5	6.4	6.3	6.4	6.4	6.6	6.44	6.6	6.8	6.5
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--		1,902	2,061	2,170	2,171	2,161	2,061	1,929	2,005	2,018	2,121	2,038
Turbidity	NTU	--	--	--	--	--	--	--	--	--		2.92	2.8	<1	5	<1	1.3	<1	3.58	3.11	2.2	3.2
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--		0.84	0.1	0.1	0.3	0.3	0.5	0.4	0.09	0.11	0.2	0.27
Temperature	°C	--	--	--	--	--	--	--	--	--		10.85	11.0	12.1	16.7	15.0	11.4	10.6	14.21	15.55	9.9	17.8
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--		-109.7	-61.8	-92.2	-126.3	-90.1	-97.3	-96.3	-63.7	-87.9	-71.6	-88.4
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	125	5.0		108	119	86	100	88	92	83	85.9	83.0	--	76.6
Calcium	mg/L	NC	NC	NC	500	259	259	500	1	1.0		172	184	164	172	181	176	172	170	182	--	168
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5	5.0		200	204	203	165	204	196	200	10.4	226	--	197
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100.0		<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	--	--	--	0.1	1.0		6.55	6.5	**6.4**	**6.3**	**6.4**	**6.4**	6.6	**6.44**	6.6	6.8	**6.5**
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25		<2	<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10	20.0		980	1,000	980	920	930	990	1,000	1,050	995	--	986
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1	6	1	1.0		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**10**	1	1.0		2	2	3	3	2	2	2	1.5	--	1.5	1.3
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1	5.0		656	647	614	619	621	666	613	596	--	649	652
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0		2	3	3	4	3	3	3	1.9	--	2.1	2.0
Cobalt	ug/L	6	40	100	100	15	15	15	15	1.0		<15	<15	<15	<15	<15	<15	<15	<15	--	< 15.0	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100		<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Lead	ug/L	15	4	4	29	15	2	4	1	1.0		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Lithium	ug/L	40	170	350	440	40	28	40	10	20.0		<10	<10	<10	<10	<10	<10	<10	<10	--	< 10	< 10
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2	0.20		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5	1.0		<5	<5	<5	<5	<5	<5	<5	<5	--	< 5.0	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.242		<0.263	1.51	1.31	1.50	1.06	1.17	1.60	1.30	--	1.56	< 0.810
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A	1.16		**2.29**	**3.83**	**3.00**	**3.18**	**2.74**	**3.54**	**3.66**	**2.36**	--	**3.64**	**2.50**
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.922		2.29	2.32	1.69	1.68	1.68	2.37	2.06	1.06	--	2.08	1.81
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1	1.0		2	4	2	**7**	1	2	2	3.6	--	1.5	1.4
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.0	1.0		<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	25		--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--		--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--	--		--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--		--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--		--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--		--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--		--	--	--	--	--	--	--	--	--	--	--

										Co	Assessment Monitoring			
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data		11/29/2018	4/11/2019	9/26/2019	5/6/2020
Field Parameters														
pH	su	--	--	--	--	--	--	--	--		6.6	6.4	6.6	6.35
Conductivity	µS/cm	--	--	--	--	--	--	--	--		1,607	1,552	2,143	2,084
Turbidity	NTU	--	--	--	--	--	--	--	--		2.41	5.6	4.45	119.37
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--		0.37	0.04	0.28	0.12
Temperature	°C	--	--	--	--	--	--	--	--		11.5	11.2	15	12.8
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--		-15.5	-100.6	-109.8	-184
Appendix III														
Boron	ug/L	NC	**500**	**500**	7,200	1,320	1,320	1,320	125		80.8	110	100	89
Calcium	mg/L	NC	NC	NC	500	259	259	500	1		169	170	160	176
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**6**	**5,980**	5		201	190	230	239
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000		< 1,000	< 1,000	< 1,000	<2.6
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1		6.6	**6.4**	6.6	6.7
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2		< 2.0	< 2.0	< 20	<0.041
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**5,170**	**5,170**	10		968	1,000	980	944
Appendix IV														
Antimony	ug/L	6	6	6	130	6	1	6	1		< 1.0	< 1.0	--	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**10**	**10**	1		1.3	1.6	1.4	1.6
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**340**	**690**	1		548	**700**	630	678
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0		< 1.0	< 1.0	--	< 0.20
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2		< 0.20	< 0.20	--	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1		2.3	2.3	2.4	1.5
Cobalt	ug/L	6	40	100	100	15	15	15	15		< 6.0	< 6.0	--	1.6
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000		< 1,000	< 1,000	< 1,000	< 100
Lead	ug/L	15	4	4	29	15	2	4	1		< 1.0	< 1.0	--	0.045
Lithium	ug/L	40	170	350	440	40	28	40	10		< 10	< 10	< 10	8.7
Mercury	ug/L	2	2	2	0.20#	2	0.2	0.2	0.2		< 0.20	< 0.20	--	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9	100	5		< 5.0	< 5.0	< 5.0	< 1.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A		1.75	1.18	1.31	1.37
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	2.42	NV	N/A		**3.95**	**2.94**	**3.27**	**2.02**
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A		2.20	1.76	1.97	0.647
Selenium	ug/L	50	50	50	**5**	50	**3**	**5**	1		< 1.0	< 1.0	< 1.0	0.47
Thallium	ug/L	2	2	2	3.7	2	2.0	2.0	2.0		< 2.0	< 2.0	--	< 1.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5		--	--	--	111
Michigan CCR														
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--		--	--	--	--
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--		--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--		--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--		--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--		--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--		--	--	--	--

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L	State Groundwater Protection Standards for Site (ug/L)	RDL (Pace 5/21)	RDL (Pace 6/15)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	10.0	10.0	8.8	44	88	8.8	8.8	8.8	44	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1.0	1.0	0.3	1.3	2.6	2.6	26	1.3	1.3	2.6
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	25.0	25.0	0.1	7.5	15	15	7.5	7.5	7.5	3.8
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	100.0	100.0	20.0	100	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	1.0	1.0	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	0.25	0.25	0.60	3	3	3	3	3	3	3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	40.0	20.0	10.0	20	40	40	20	20	50	40
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1.0	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1.0	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	5.0	5.0	2.5	25	12	2.5	12	12	12	12
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.20	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.20	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1.0	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	1.0	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	100	100	20.0	100	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1.0	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Lithium	ug/L	40	170	350	440	40	48	48	20.0	20.0	1.2	5.9	12	2.5	2.5	2.5	12	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.20	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.0	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	0.357	0.195	1.0	0.38	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.13	1.07	1.0	0.49	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	0.768	0.871	1.0	0.49	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1.0	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	1.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	12.5	12.5	4.0	20.0	8.0	16.0	8.0	4.0	4	8
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	38	75	500	5000	50	250	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2

											Sample Location:	MW-15016R										
											Compliance Phase:	Assessment Monitoring										
											Sample Dates:	5/21/2020	6/15/2020	10/29/2020	4/21/2021	10/22/2021	5/4/2022	10/20/2022	4/12/2023	10/3/2023	3/27/2024	10/23/2024
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L	State Groundwater Protection Standards for Site (ug/L)	RDL (Trace 10/2024)	RDL (Trace 04/2025)		Downgradient										
Field Parameters																						
pH	su	--	--	--	--	--	--	--	--	--		6.54	6.52	6.66	6.55	6.5	6.36	6.57	6.48	6.57	6.58	6.46
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--		1,553	2,210	2,240	2,290	2,180	2,800	2,260	2,640	2,750	2,450	2,730
Turbidity	NTU	--	--	--	--	--	--	--	--	--		20.54	0.02	0.02	0.06	0.8	6.31	0.02	5.23	2.13	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--		0.13	0.13	0.06	0.36	0.22	0.15	0.02	0.35	1.98	0.04	0.05
Temperature	°C	--	--	--	--	--	--	--	--	--		13.7	14.4	12.3	13.2	13.1	13.2	12.9	12.6	15.1	10.2	14.3
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--		-134.4	-68.9	-243.7	-64.3	-120.5	-35.7	-101.8	-92.5	-108.2	144.2	-142.4
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	8.8	8.8		112	109	150	130	170	**1,800**	230	130	140	120	150
Calcium	mg/L	NC	NC	NC	500	260	260	500	1.3	1.3		192	195	200	220	240	270	250	250	250	210	250
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	3.8	7.5		**314**	**293**	**320**	**340**	400	470	440	460	500	420	410
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	200	20		81	140	< 20	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	--	--		6.6	6.6	6.7	6.6	6.5	6.83	6.57	6.48	6.57	6.58	6.46
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	6.0	1		2.8	5.8	< 0.6	< 3	< 3	< 3	< 3	< 3	< 3	4.0	2.9
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	48	67		1,190	1,130	1,200	1,200	1,200	1,600	1,600	1,400	1,700	1,500	1,300
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	0.25	0.25		0.22	0.14	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	0.55	0.55		5.5	**10.1**	1.6	1.7	1.3	1.4	2.0	< 2.8	1.7	1.8	2.2
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	120	120		**806**	**789**	**890**	**960**	**950**	**1,200**	**1,100**	**1,300**	**1,100**	**910**	**1,100**
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.25	0.25		< 0.20	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	0.085
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.25	0.25		< 0.20	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	0.25	0.25		0.7	0.8	0.7	1.1	0.7	0.88	0.85	< 1.2	< 1.2	0.65	1.2
Cobalt	ug/L	6	40	100	100	6	1.2	6	0.52	0.52		1.9	1.6	1	1.3	0.8	0.9	0.91	< 2.6	0.96	0.66	1.1
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	200	200		81	140	< 20	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 200
Lead	ug/L	15	4	4	29	15	2	15	0.55	0.55		0.059	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	< 0.55	0.1
Lithium	ug/L	40	170	350	440	40	48	48	2.5	2.5		10.9	3.7	5.0	< 5.9	< 12	5.2	6.1	**110**	< 12	4.8	6.2
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2		< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.2	1.2		4.3	7.5	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2	0.39
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	1.0	1.0		0.926	1.470	1.600	< 0.38	1.64	3.16	2.01	1.84	2.15	1.74	2.2
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.0	1.0		2.93	4.71	4.00	1.6	4.17	3.16	4.06	**5.51**	**5.64**	**5.45**	4.08
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	1.0	1.0		2.00	3.24	2.40	2.9	2.53	2.67	2.05	3.67	3.49	3.71	1.88
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	0.5	0.5		< 1.0	< 1.0	< 0.5	1.3	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	0.12	0.19
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	0.38	0.38		< 1.0	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	4.0	4.0		104	74	120	120	100	130	100	120	120	130	110
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	0.25	0.25		--	--	< 1	< 0.25	< 0.25	0.25	< 0.25	< 1.2	1.4	0.35	0.43
Iron	ug/L	--	--	--	--	--	--	300 or UTL	250	250		--	--	**49,000**	**54,000**	**60,000**	**74,000**	**67,000**	**65,000**	**64,000**	**55,000**	**73,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	1.2	1.2		--	--	< 50	< 0.25	< 0.25	< 0.25	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	0.05	0.05		--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	1.2	1.2		--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2	1.6
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	1.2	1.2		--	--	< 10	17	< 1.2	< 1.2	< 1.2	110	73	< 1.2	43

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L	State Groundwater Protection Standards for Site (ug/L)	4/24/2025
Field Parameters									
pH	su	--	--	--	--	--	--	--	6.46
Conductivity	µS/cm	--	--	--	--	--	--	--	2,003
Turbidity	NTU	--	--	--	--	--	--	--	5.89
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	0.22
Temperature	°C	--	--	--	--	--	--	--	13.7
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	-98.6
Appendix III									
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	150
Calcium	mg/L	NC	NC	NC	500	260	260	500	220
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	450
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	53
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	6.46
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	0.5
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	1,400
Appendix IV									
Antimony	ug/L	6	6	6	130	6	1.4	6	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	2.6
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	**1,000**
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	0.8
Cobalt	ug/L	6	40	100	100	6	1.2	6	0.89
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	53
Lead	ug/L	15	4	4	29	15	2	15	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	1.51
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	4.19
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	2.68
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	0.14
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	130
Michigan CCR									
Copper	ug/L	--	--	--	--	--	--	13 or UTL	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	**55,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)
Field Parameters																			
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	5.0	8.8	88	88	8.8	8.8	44	44	8.8	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	5.0	0.3	2.6	2.6	5.1	26	1.3	1.3	2.6	1.3
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	25.0	0.1	7.5	15	7.5	7.5	7.5	7.5	3.8	3.8
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100.0	20.0	100	100	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1.0	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3	3	3	3	3	3	3	6.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	20.0	10.0	20	40	40	20	20	50	40	50
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	10	2.5	25	12	2.5	12	12	12	2.5	120
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	100	100	100	100	100	100	100	200
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	2.8	0.55	0.55	2.8	2.8	0.55	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	12	12	2.5	2.5	12	12	2.5	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.312	1.0	0.23	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.07	1.0	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.758	1.0	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	1.9	0.38	0.38	1.9	1.9	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	25	4.0	20.0	8.0	8.0	8.0	4.0	4	8	4.0
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	75	75	250	5000	250	250	50	250
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 04/2025)	Sample Location:										
											Compliance Phase:	Background Monitoring							Detection	Initial A.M.	
											Sample Dates:	12/1/2015	2/18/2016	4/18/2016	7/13/2016	9/29/2016	2/14/2017	4/5/2017	7/12/2017	9/13/2017	4/17/2018	6/12/2018
Field Parameters																						
pH	su	--	--	--	--	--	--	--	--	--		6.46	6.4	6.4	6.4	6.4	6.6	6.5	6.41	6.5	6.8	6.5
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--		1,963	2,237	2,159	2,211	2,242	1,988	2,410	2,182	2,420	2,334	2,225
Turbidity	NTU	--	--	--	--	--	--	--	--	--		1.39	<1	<1	<1	3.2	5.4	3.5	3.52	2.68	2.8	1.3
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--		0.04	0.2	0.3	0.2	0.5	0.5	0.0	0.07	0.17	0.21	0.24
Temperature	°C	--	--	--	--	--	--	--	--	--		11.22	10.1	14.8	16.1	13.9	11.1	10.0	13.75	14.49	9.6	17.4
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--		-204.9	-132.6	-95.2	-101.2	-83.1	-86.8	-99.8	-79.5	-71.2	-85.4	-96.8
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	8.8		59	90	66	76	78	76	75	75.0	82.8	--	83.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.3		225	247	220	232	252	232	232	203	245	--	243
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	3.8		200	201	184	204	182	192	187	199	224	--	224
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	20		<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--		**6.46**	**6.4**	**6.4**	**6.4**	**6.4**	6.6	6.5	**6.41**	6.5	6.8	**6.5**
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	1		<2	<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	67		850	1,100	1,200	1,100	1,100	1,200	1,100	1,230	1,130	--	1,120
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55		**13**	7	5	**12**	**12**	5	4	3.0	--	2.3	2.1
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	120		**1,030**	**981**	**924**	**985**	**955**	**968**	**876**	**772**	--	**955**	**936**
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25		4	4	4	9	11	5	5	5.3	--	3.4	3.4
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52		<15	<15	<15	<15	<15	<15	<15	<15	--	< 15.0	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200		<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55		<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5		<10	<10	<10	<10	<10	<10	<10	<10	--	< 10	< 10
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2		<5	<5	<5	<5	<5	<5	<5	<5	--	< 5.0	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0		1.61	2.38	2.18	1.91	1.94	1.82	1.56	1.97	--	2.23	2.13
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0		4.30	**5.35**	**5.68**	**5.89**	4.44	4.97	4.34	4.75	--	**5.16**	**5.43**
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0		2.69	2.97	3.50	3.98	2.50	3.15	2.78	2.78	--	2.93	3.30
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5		3	4	3	**8**	2	2	3	2.7	--	1.7	2.4
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38		<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0		--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25		--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	250		--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2		--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05		--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2		--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2		--	--	--	--	--	--	--	--	--	--	--

										MW-15017													
										Assessment Monitoring													
										6/12/2018	11/29/2018	4/11/2019	9/26/2019	5/6/2020	10/29/2020	4/21/2021	10/22/2021	5/5/2022	10/20/2022	4/12/2023	10/2/2023	3/27/2024
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Downgradient													
Field Parameters										Field Dup													
pH	su	--	--	--	--	--	--	--	--	6.5	6.7	6.4	6.6	6.5	6.59	6.47	6.64	6.67	6.62	6.49	6.24	6.64
Conductivity	µS/cm	--	--	--	--	--	--	--	--	2,225	1,790	1,590	2,391	2,345	2,300	2,430	2,290	2,570	2,300	2,490	2,500	2,260
Turbidity	NTU	--	--	--	--	--	--	--	--	1.3	0.65	1.5	1.75	165.79	0.51	0.13	0.02	2.99	0.02	0.92	0.02	0.10
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.24	0.42	0	0.29	0.13	0.12	0.62	0.37	0.16	0.02	0.22	0.33	0.10
Temperature	°C	--	--	--	--	--	--	--	--	17.4	11.15	10.7	13.8	12.2	11.9	11.7	12.4	11.8	12.5	11.6	14	10.3
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-96.8	-55	-185.8	-120.8	27.3	-168.6	-41.6	-149.9	-94.1	-99.0	-93.2	-79.6	136.3
Appendix III																							
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	79.0	73.2	100	93	88	150	110	110	270	200	69	81	52
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	232	242	220	220	249	240	260	250	290	270	270	270	230
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	224	193	210	250	229	230	280	320	340	320	330	350	310
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 1,000	< 1,000	< 1,000	< 1,000	<2.6	< 20	< 100	< 100	< 100	< 100	< 100	< 100	< 100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	6.7	**6.4**	6.6	6.7	6.6	6.5	6.6	6.48	6.62	6.49	6.24	6.64
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	< 2.0	< 2.0	< 2.0	< 20	<0.041	< 0.6	< 3	< 3	< 3	< 3	< 3	< 3	1.4
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	1,170	1,110	1,200	1,200	1,120	1,200	1,200	1,400	1,100	1,400	1,200	1,400	1,300
Appendix IV																							
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	2.1	1.8	1.9	1.8	2.1	2.0	2.20	1.9	1.9	2.2	< 2.8	2.0	1.6
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	**953**	**824**	**960**	**900**	**1,010**	**1,000**	**1,100**	**1,000**	**1,100**	**1,100**	**1,200**	**1,100**	**880**
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	--	0.02	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	3.3	3.1	2.9	3.4	2.9	0.8	1.0	0.51	0.62	0.96	2.3	< 1.2	0.67
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 15.0	< 6.0	< 6.0	--	1.3	0.96	1.2	0.89	0.77	0.93	< 2.6	0.85	0.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 1,000	< 1,000	< 1,000	< 1,000	<2.6	< 20	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55	< 0.55	< 2.8	< 0.55	< 0.55	< 2.8	< 2.8	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	< 10	< 10	< 10	< 10	11.2	3.5	< 12	< 12	4.1	4.8	18	< 12	4.4
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 5.0	< 5.0	< 5.0	< 5.0	0.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	1.5
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	2.87	1.93	1.52	1.42	1.61	2.20	1.4	2.07	0.62	1.77	1.68	1.64	1.66
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	**5.59**	**5.12**	**5.46**	4.16	4.66	**5.70**	4.3	4.57	3	4.47	4.94	4.21	**5.19**
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	2.72	3.19	3.93	2.75	3.05	3.50	2.9	2.5	2.38	2.7	3.26	2.57	3.53
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	2.5	< 1.0	< 1.0	< 1.0	0.56	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 1.9	< 0.38	< 0.38	< 1.9	< 1.9	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	137	150	180	130	150	110	150	100	160
Michigan CCR																							
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	< 1	< 0.25	< 0.25	0.4	< 0.25	3.7	< 1.2	0.23
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	**70,000**	**77,000**	**74,000**	**93,000**	**80,000**	**81,000**	**77,000**	**64,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	< 50	< 0.25	< 0.25	< 0.25	< 1.2	< 6.2	< 6.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	< 10	5.5	< 1.2	< 1.2	< 1.2	130	70	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	10/23/2024	4/23/2025
Field Parameters											
pH	su	--	--	--	--	--	--	--	--	6.52	6.49
Conductivity	µS/cm	--	--	--	--	--	--	--	--	2,530	1,799
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	3.84
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.14	0.12
Temperature	°C	--	--	--	--	--	--	--	--	13.4	11.8
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-93.1	-33.6
Appendix III											
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	54	74
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	270	270
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	320	360
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 100	44
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	6.52	6.49
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	< 6.0	0.36
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	1200	1,300
Appendix IV											
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.8	2.1
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	**980**	**1,000**
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.066	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.2	1
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.86	0.63
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 200	360
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	5.5	5.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	0.36	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	2.3	1.86
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	3.98	5.06
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.68	3.2
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.15	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	140	180
Michigan CCR											
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.37	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**79,000**	**66,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.6	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	37	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	50	8.8	8.8	8.8	8.8	8.8	44	44	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	2.6	0.26	2.6	2.6	1.3	1.3	0.26
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5	0.1	3.8	0.75	0.75	0.75	0.75	0.75	0.75
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	100	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--		--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3	3	3	3	15	3	3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	40	40	20	20	20	40
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	100	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	2.5	12	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.234	1.0	0.3	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.11	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.871	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	16.7	4.0	8.0	8.0	8.0	8.0	4.0	4	8
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	250	250	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2

											Sample Location:									
											Compliance Phase:	Background & Detection Monitoring								Detection
											Sample Dates:	12/2/2015	2/18/2016	4/14/2016	7/14/2016	9/29/2016	2/14/2017	4/5/2017	7/11/2017	7/11/2017	9/13/2017
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 10/2024)	RDL (Trace 04/2025)									Field Dup	
Field Parameters																					
pH	su	--	--	--	--	--	--	--	--	--	--	7.0	6.9	6.8	6.5	6.5	6.7	6.8	6.78	6.78	6.8
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	710	753	772	819	824	793	680	762	762	839
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	5.46	<1	<1	<1	<1	<1	7	1.71	1.71	4.65
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	0.20	0.2	0.3	0.4	0.5	0.5	0.5	0.11	0.11	0.19
Temperature	°C	--	--	--	--	--	--	--	--	--	--	12.77	9.8	10.1	14.9	13.0	10.5	9.5	14.54	14.54	14.52
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	-138.5	-76.6	-80.8	-83.7	-53.5	-71.1	-55.3	-36.7	-36.7	-55.3
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	8.8	8.8	487	526	478	399	438	479	493	538	446	492
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	0.26	0.26	88.6	100	87.9	86.8	98.5	100	92.1	84.8	81.1	90.7
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	1.5	38.0	38.0	40.8	39.3	37.5	43.6	44.4	53.4	52.6	49.1
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	<1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--	7.0	6.9	6.8	6.5	6.5	6.7	6.8	6.78	< 2.0	6.8
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6.0	1	<2	<2	<2	<2	<2	<2	<2	<2.0	438	<2.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	50	50	290	400	430	390	410	450	410	420	--	392
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55	1	<1	<1	2	<1	<1	<1	<1	<1	--
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	2.5	155	149	139	133	143	171	149	153	143	--
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25	<1	1	1	1	1	<1	1	<1	<1	--
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52	<15	<15	<15	<15	<15	<15	<15	<15	<15	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	0.55	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5	2.5	21.4	23.1	24	12	14	21	21	26	26	--
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	1.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	--
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	0.227	0.394	0.430	0.234	0.522	0.363	<0.314	<0.479	< 1.02	--
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0	<0.586	1.17	1.08	1.08	1.33	1.36	1.37	<1.25	< 0.950	--
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	<0.586	0.778	0.649	0.845	0.803	0.996	1.08	<0.767	< 1.97	--
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5	<1	<1	1	4	<1	<1	<1	<1	1	--
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	0.38	<2	<2	<2	<2	<2	<2	<2	<2	<2	--
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	4.0	--	--	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	50	50	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--

										MW-15018												
										Monitoring	Initial A.M.		Assessment Monitoring									
										9/13/2017	4/18/2018	4/18/2018	6/12/2018	11/29/2018	4/11/2019	9/26/2019	5/6/2020	10/29/2020	4/22/2021	10/22/2021	5/4/2022	10/20/2022
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Downgradient												
Field Parameters										Field Dup		Field Dup										
pH	su	--	--	--	--	--	--	--	--	6.8	6.9	6.9	6.8	6.9	6.8	6.9	6.61	6.86	6.77	7.24	7.1	7.16
Conductivity	µS/cm	--	--	--	--	--	--	--	--	839	817	817	771	648	628	854	894	890	900	504	530	470
Turbidity	NTU	--	--	--	--	--	--	--	--	4.65	4.6	4.6	2.9	0.7	8.9	6.9	174.94	0.02	8.9	118	9.2	8.80
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.19	0.27	0.27	0.32	0.55	0.05	0.34	0.16	0.36	0.51	0.04	0.27	0.02
Temperature	°C	--	--	--	--	--	--	--	--	14.52	10	10	17.8	10.8	11.4	14.7	12.2	12.7	12.1	12.3	12.1	12.9
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-55.3	-45	-45	-68.7	-6.3	-133.5	-100.7	4.8	-231.4	-155.9	-131.1	-107.4	-95.2
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	502	--	--	559	488	640	550	541	640	660	210	200	180
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	89.1	--	--	87.6	101	96	94	106	110	110	70	74	62
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	50.2	--	--	48.9	49.1	59	55	57	65	75	34	32	35
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 1,000	<1,000	< 1,000	<1,000	< 1,000	< 1,000	< 1,000	130	150	250	230	190	180
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	6.9	--	6.8	6.9	6.8	6.9	7.0	6.9	6.8	7.2	7.09	7.16
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 20	< 0.25	< 0.6	< 3	4.6	9.1	13
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	380	--	--	598	426	480	430	424	490	500	220	270	290
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.46	< 0.55	< 0.55	3.8	0.93	0.81
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	--	139	141	156	127	150	140	154	240	280	160	130	120
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.35	0.29	0.47	1.8	0.67	0.60
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	--	< 15.0	< 15.0	< 15.0	< 6.0	< 6.0	--	0.35	< 0.52	< 0.52	0.56	< 0.52	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 1,000	<1,000	< 1,000	<1,000	< 1,000	< 1,000	< 1,000	130	150	250	230	190	180
Lead	ug/L	15	4	4	29	15	2	15	1	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55	< 0.55	3.9	0.66	0.74
Lithium	ug/L	40	170	350	440	40	48	48	10	--	29	27	26	22	24	20	24	33	26	14	15	18
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	--	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	--	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.2	< 1.2	1.2	< 1.2	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	--	< 0.843	0.290	< 0.756	< 0.842	0.316	0.511	0.707	0.730	0.75	1.16	0.44	0.4
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	--	1.59	0.622	1.77	< 1.84	0.915	1.36	0.707	1.730	1.23	1.16	< 1	1.09
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	--	0.869	0.912	1.39	< 0.997	0.598	0.846	-0.267	1.000	0.48	0.27	-0.15	0.69
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.44	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	--	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--		--	--	43	32	36	98	22	12
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	--	--	< 1	0.38	3	0.89	0.52
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	--	--	--	**13,000**	**8,500**	**10,000**	**8,200**	**6,700**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	--	--	< 50	< 0.25	2	0.55	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	--	--	< 10	< 1.2	5.3	1.4	1.4
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	--	--	< 10	1.2	7.2	2.5	1.8

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	4/13/2023	10/2/2023	3/27/2024	10/23/2024	4/23/2025
Field Parameters														
pH	su	--	--	--	--	--	--	--	--	6.92	6.64	7.06	7.01	6.89
Conductivity	µS/cm	--	--	--	--	--	--	--	--	506	510	480	575	469.1
Turbidity	NTU	--	--	--	--	--	--	--	--	7.32	0.02	0.02	1.01	4.58
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.29	0.09	0.01	0.07	0.12
Temperature	°C	--	--	--	--	--	--	--	--	12.1	14.4	10.6	13.8	12.7
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-104.2	-78.5	100.5	-96.9	-32.1
Appendix III														
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	140	130	130	180	220
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	62	63	59	76	80
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	34	33	32	43	40
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	110	110	240	< 200	180
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	6.92	6.64	7.06	7.01	6.89
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	< 15	7.3	3.7	3.5	0.51
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	*640R*	300	320	360	360
Appendix IV														
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 2.8	0.52	0.44	0.64	0.57
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	120	110	93	120	140
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.2	< 1.2	< 0.25	0.14	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.2	< 1.2	0.28	0.58	0.51
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 2.6	< 2.6	< 0.52	0.45	0.16
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	110	110	240	< 200	180
Lead	ug/L	15	4	4	29	15	2	15	1	< 2.8	< 2.8	0.31	0.83	0.69
Lithium	ug/L	40	170	350	440	40	48	48	10	17	17	13	19	20
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 6.2	< 6.2	< 1.2	0.53	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.179	0.168[U]	0.244	0.45[U]	0.195
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	0.705[U]	0.554[U]	0.64[U]	1.25	1.27
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.526[U]	0.386[U]	0.396[U]	0.8	1.08
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 2.5	< 2.5	< 0.5	0.19	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 1.9	< 1.9	< 0.38	0.17	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	*7.8R*	4	< 8	24	12
Michigan CCR														
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 1.2	< 1.2	0.23	0.73	0.47
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**6,100**	**5,900**	**7,600**	**7,800**	**9,600**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 6.2	< 6.2	< 1.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.25	< 0.25	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 6.2	< 6.2	< 1.2	1.5	1.3
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	13	8.6	< 1.2	6.2	1.5

Sample Location:
Compliance Phase:
Sample Dates:

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)	RDL (Trace 04/2025)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	8.8	8.8	44	8.8	8.8	44	44	8.8	44	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	0.3	0.26	1.3	1.3	2.6	1.3	1.3	2.6	1.3	1.3
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	0.1	0.75	3.8	0.75	3.8	0.75	0.75	0.75	1.5	1.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	20.0	100	100	100	100	100	100	100	100	20
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	0.60	6	3	60	3	3	3	3	6.0	1
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10.0	20	40	40	20	20	50	40	50	40
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	2.5	2.5	2.5	2.5	2.5	12	12	2.5	2.5	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25	0.25
Chromium	ug/L	100	100	100	11	100	3	11	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	20.0	100	100	100	100	100	100	100	200	200
Lead	ug/L	15	4	4	29	15	2	15	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55	0.55
Lithium	ug/L	40	170	350	440	40	48	48	1.2	1.2	5.9	2.5	2.5	2.5	12	2.5	2.5	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	1.0	0.28	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.0	0.48	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	1.0	0.48	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	4.0	8.0	8.0	16.0	8.0	4.0	4	8	4.0	4.0
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	200	7.5	38	50	500	250	250	50	250	250
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2	1.2

										Background Monitoring									Detection	Initial A.M.			
										12/2/2015	2/18/2016	4/14/2016	7/13/2016	9/30/2016	2/15/2017	4/5/2017	7/11/2017	9/13/2017	4/18/2018	6/12/2018	11/30/2018	4/12/2019
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Trace 10/2020)														
Field Parameters																							
pH	su	--	--	--	--	--	--	--	--	7	6.8	--	6.7	6.4	6.8	6.9	6.79	6.7	7	6.7	6.9	6.7
Conductivity	µS/cm	--	--	--	--	--	--	--	--	646	727	--	733	762	692	821	843	1,058	944	980	812	560
Turbidity	NTU	--	--	--	--	--	--	--	--	8	<1	--	<1	<1	<1	<1	1.56	2.94	2.6	3.4	2.48	8.2
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	1.46	0.2	--	0.2	0.6	0.6	0.0	0.09	0.16	0.25	0.31	1.06	0.06
Temperature	°C	--	--	--	--	--	--	--	--	12.09	6.6	--	17.5	13.0	9.7	9.0	14.50	13.81	11.1	18.4	11.65	10.9
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-88.0	-122.7	--	-106.7	-70.7	-119.2	-125.9	-78.9	-70.2	-89.9	-102.6	-10.4	-142.1
Appendix III																							
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	8.8	**1,530**	**1,590**	**1,440**	**1,320**	**1,260**	**1,370**	**1,410**	**1,430**	1,010	--	1,170	**1,540**	**1,600**
Calcium	mg/L	NC	NC	NC	500	260	260	500	0.3	84.6	93.6	83.0	90.0	92.6	91.8	92.8	90.1	107	--	97.7	98.2	97
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	0.1	34.0	32.4	33.7	37.7	35.6	34.5	33.6	52.5	73.9	--	67.7	42.6	39
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	20.0	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	< 1,000	< 1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	--	7.0	6.8	6.9	6.7	**6.4**	6.8	6.9	6.79	6.7	7.0	6.7	6.9	6.7
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	0.60	<2	<2	<2	<2	<2	<2	<2	<2.0	<2.0	--	< 2.0	< 2.0	< 2.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10.0	340	390	440	410	370	410	420	470	618	--	524	556	430
Appendix IV																							
Antimony	ug/L	6	6	6	130	6	1.4	6	0.3	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	0.6	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0	< 1.0
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	2.5	91	94	88	88	96	93	90	109	--	161	187	114	110
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20	< 0.20	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	0.3	<1	<1	1	1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0	< 1.0
Cobalt	ug/L	6	40	100	100	6	1.2	6	0.5	<15	<15	<15	<15	<15	<15	<15	<15	--	< 15.0	< 15.0	< 6.0	< 6.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	20.0	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	< 1,000	< 1,000
Lead	ug/L	15	4	4	29	15	2	15	0.6	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	1.2	23.7	27.9	26	24	22	23	22	27	--	25	23	26	22
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20	< 0.20	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.2	<5	<5	<5	<5	<5	<5	<5	<5	--	< 5.0	< 5.0	< 5.0	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	1.0	0.333	0.279	0.465	0.282	0.315	0.329	<0.360	<0.620	--	< 0.717	< 0.594	< 0.880	0.246
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.0	0.674	0.798	0.997	0.969	<0.739	2.13	0.974	<1.64	--	< 1.46	1.75	< 1.77	0.794
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	1.0	<0.484	<0.567	0.532	<0.718	<0.739	1.80	0.872	<1.02	--	< 0.742	1.36	1.16	0.548
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	0.5	<1	<1	<1	2	<1	<1	<1	1.2	--	< 1.0	< 1.0	< 1.0	< 1.0
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	0.4	<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0	< 2.0	< 2.0	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																							
Copper	ug/L	--	--	--	--	--	--	13 or UTL	1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--

										MW-15019													
										Assessment Monitoring													
										4/12/2019	9/26/2019	5/5/2020	5/5/2020	10/29/2020	4/22/2021	10/22/2021	5/3/2022	10/20/2022	4/12/2023	10/3/2023	3/27/2024	3/27/2024
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Trace 10/2020)	Downgradient													
Field Parameters										Field Dup			Field Dup										Field Dup
pH	su	--	--	--	--	--	--	--	--	6.7	6.9	6.69	6.69	6.94	6.74	6.56	6.84	6.63	6.73	6.41	6.73	6.73
Conductivity	µS/cm	--	--	--	--	--	--	--	--	560	1,031	1,028	1,028	830	540	1,600	1,620	600	940	1,200	990	990
Turbidity	NTU	--	--	--	--	--	--	--	--	8.2	4.75	145.62	145.62	0.02	4.73	25.9	0.02	0.02	2.76	0.02	5.11	5.11
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.06	0.2	0.18	0.18	0.72	0.41	0.23	0.48	0.29	0.11	0.07	0.29	0.29
Temperature	°C	--	--	--	--	--	--	--	--	10.9	14.2	12.2	12.2	12.2	11.5	13.1	9.4	13.0	11.8	13.5	10	10
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-142.1	-123.7	-16.9	-16.9	-181	-54.3	-129.6	11.7	-110.0	-8.4	-45.6	143.4	143.4
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	8.8	**1,500**	1,000	837	814	730	69	400	1,100	290	230	200	300	300
Calcium	mg/L	NC	NC	NC	500	260	260	500	0.3	94	100	106	109	110	84	190	190	110	110	110	97	94
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	0.1	39	68	80	75	94	12	120	15	91	96	94	80	81
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	20.0	< 1,000	< 1,000	51	52	< 20	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	--	--	6.9	6.9	6.9	6.9	6.74	6.56	6.74	6.63	6.73	6.41	6.73	6.73
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	0.60	< 2.0	< 20	0.13	< 250	< 0.6	160	< 3	**770**	< 3	< 3	0.62	< 3	< 3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10.0	440	530	481	490	600	350	630	560	570	550	620	550	570
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	0.3	< 1.0	--	< 1.4	< 6	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	0.6	< 1.0	< 1.0	0.4	0.48	< 0.55	1.8	1.5	8.1	0.90	< 2.8	0.58	0.45	0.42
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	2.5	120	150	174	171	340	96	640	78	410	440	380	280	280
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.25	< 1.0	--	< 1	< 4	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.25	< 0.20	--	< 0.2	< 3.1	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	0.3	< 1.0	< 1.0	0.64	0.63	0.53	< 0.25	0.91	0.3	0.7	< 1.2	< 1.2	0.4	0.37
Cobalt	ug/L	6	40	100	100	6	1.2	6	0.5	< 6.0	--	0.76	0.75	0.64	0.61	1.4	1.8	0.7	< 2.6	0.68	0.66	0.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	20.0	< 1,000	< 1,000	51	52	< 20	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Lead	ug/L	15	4	4	29	15	2	15	0.6	< 1.0	--	< 2	< 15	< 0.55	< 0.55	0.93	< 0.55	< 0.55	< 2.8	< 2.8	0.17	0.2
Lithium	ug/L	40	170	350	440	40	48	48	1.2	22	20	20	23	5	< 1.2	< 5.9	33	4.4	4.8	< 12	6.1	6.2
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	--	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.2	< 5.0	< 5.0	< 9.7	< 100	< 1.2	3.7	< 1.2	8.8	< 1.2	< 6.2	< 6.2	1.2^{J+}	$< 1.2^{UJ}$
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	1.0	< 0.197	0.443	0.331	0.443	0.740	0.77	1.6	0.05	0.85	0.729	0.966	0.65	0.505
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.0	0.669	1.09	0.331	0.781	1.640	0.97	3.81	< 1	2.79	1.45	2.58	2.16	2.42
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	1.0	< 0.513	0.651	-0.0196	0.338	0.900	0.2	2.21	0.21	1.94	0.723	1.62	1.51	1.91
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	0.5	< 1.0	< 1.0	0.36	0.34	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	0.12	0.12
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	0.4	< 2.0	--	< 0.19	< 2	< 0.38	0.58	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	0.28^{J+}	$< 0.38^{UJ}$
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	4.0	--		46	59	66	14	130	40	68	72	77	36	30
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	1.0	--	--	--	--	< 1	1.2	0.56	< 0.25	< 0.25	< 1.2	< 1.2	0.53^{J+}	$< 0.25^{UJ}$
Iron	ug/L	--	--	--	--	--	--	300 or UTL	200	--	--	--	--	**26,000**	**2,000**	**50,000**	**3,600**	**30,000**	**28,000**	**30,000**	**23,000**	**23,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	50	--	--	--	--	< 50	1.8	0.44	2.0	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	0.2	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	10	--	--	--	--	< 10	< 1.2	1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	10	--	--	--	--	< 10	23	2.1	5.2	1.4	40	26	$< 1.2^{UJ}$	2.2^{J+}

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Trace 10/2020)	10/23/2024	4/23/2025
Field Parameters											
pH	su	--	--	--	--	--	--	--	--	6.62	6.99
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,080	737
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	4.28
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.16	0.15
Temperature	°C	--	--	--	--	--	--	--	--	13.9	11.4
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-59.6	7.7
Appendix III											
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	8.8	390	480
Calcium	mg/L	NC	NC	NC	500	260	260	500	0.3	110	110
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	0.1	78	76
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	20.0	< 200	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	--	6.62	6.99
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	0.60	2.5	**350**
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10.0	600	540
Appendix IV											
Antimony	ug/L	6	6	6	130	6	1.4	6	0.3	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	0.6	0.53	0.46
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	2.5	320	280
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.25	0.058	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.25	0.078	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	0.3	0.54	0.51
Cobalt	ug/L	6	40	100	100	6	1.2	6	0.5	0.72	0.59
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	20.0	< 200	100
Lead	ug/L	15	4	4	29	15	2	15	0.6	0.16	0.34
Lithium	ug/L	40	170	350	440	40	48	48	1.2	8.8	1.2
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.2	0.58	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	1.0	0.43[U]	0.382
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.0	1.26	1.88
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	1.0	0.83	1.49
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	0.5	0.15	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	0.4	0.097	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	4.0	73	58
Michigan CCR											
Copper	ug/L	--	--	--	--	--	--	13 or UTL	1.0	0.2	10
Iron	ug/L	--	--	--	--	--	--	300 or UTL	200	**28,000**	**20,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	50	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	0.2	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	10	0.67	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	10	13	1.8

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	100	8.8	44	88	8.8	8.8	44	44	8.8	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	0.3	1.3	2.6	1.3	2.6	1.3	1.3	0.26	0.26
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	0.1	3.8	3.8	0.75	3.8	7.5	7.5	0.75	1.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	100	20.0	100	100	100	100	100	100	100	200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	1	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	0.25	0.60	3	3	3	3	3	3	3	6.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	20	10.0	20	20	38	20	20	50	40	50
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	5	2.5	2.5	2.5	2.5	2.5	12	12	2.5	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	100	20.0	100	100	100	100	100	100	100	200
Lead	ug/L	15	4	4	29	15	2	15	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Lithium	ug/L	40	170	350	440	40	48	48	20.0	1.2	1.2	12	2.5	2.5	2.5	12	2.5	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	0.286	1.0	0.41	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.02	1.0	0.75	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	0.73	1.0	0.75	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	16.7	4.0	8.0	8.0	8.0	8.0	4.0	4	8	4.0
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	200	38	75	50	50	250	250	50	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Pace 5/2020)	RDL (Trace 04/2025)	12/2/2015	2/18/2016	4/14/2016	7/14/2016	9/30/2016	2/15/2017	4/5/2017	7/11/2017	9/13/2017	4/18/2018	6/12/2018	6/12/2018
Sample Location:																						
Compliance Phase:											Background Monitoring								Detection	Initial A.M.		
Sample Dates:																						
Field Parameters																						Field Dup
pH	su	--	--	--	--	--	--	--	--	--	7.27	--	7.0	6.9	6.9	7.0	7.1	7.01	6.8	7	6.7	6.7
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	475	--	555	549	560	540	507	604	985	853	968	968
Turbidity	NTU	--	--	--	--	--	--	--	--	--	2.1	--	<1	<1	<1	<1	<1	3.42	4.62	4.2	2	2
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	0.77	--	2.7	0.4	0.6	0.5	0.5	0.12	0.22	0.24	0.3	0.3
Temperature	°C	--	--	--	--	--	--	--	--	--	12.61	--	11.3	15.7	13.7	9.8	10.0	15.57	14.4	11.2	18	18
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	-97.2	--	-79.8	-95.3	-65.9	-96.7	-79.3	-76.7	-59.7	-89.9	-102.4	-102.4
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	100	8.8	630	738	638	603	608	621	667	618	745	--	708	699
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	0.26	61.0	67.6	59.1	60.7	66.5	67.0	66.6	68.1	107	--	96.3	91.6
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	39.0	35.4	34.3	69.6	33.5	33.3	33.9	45.7	87.8	--	92.1	92.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	100	20	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	< 1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	1	--	7.27	7.2	7.0	6.9	6.9	7.0	7.1	7.01	6.8	7.0	6.7	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	0.25	1	2.20	2.34	<2	<2	<2	<2	<2	<2.0	3.0	--	< 2.0	< 2.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	20	40	320	310	320	310	310	330	320	388	**608**	--	622	508
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1.0	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1.0	0.55	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	5	2.5	48	52	51	47	54	53	52	60.4	--	148	197	196
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.20	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.20	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1.0	0.25	<1	2	<1	1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0
Cobalt	ug/L	6	40	100	100	6	1.2	6	1.0	0.52	<15	<15	<15	<15	<15	<15	<15	<15	--	< 15.0	< 15.0	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	100	200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1000	<1,000	<1,000	< 1,000
Lead	ug/L	15	4	4	29	15	2	15	1.0	0.55	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0	< 1.0	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	20.0	2.5	15.1	17.8	16	14	14	14	14	18	--	16	16	16
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.20	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20	< 0.20	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.0	1.2	<5	<5	<5	<5	<5	<5	<5	<5	--	< 5.0	< 5.0	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	0.286	1.0	<0.269	<0.240	<0.341	<0.190	<0.276	<0.294	<0.290	<0.761	--	0.744	< 0.899	< 0.774
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.02	1.0	<0.467	0.847	0.730	<0.598	0.724	<0.591	0.652	<1.39	--	1.56	2.64	2.00
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	0.73	1.0	<0.467	0.731	0.474	<0.598	0.682	<0.591	0.543	<0.627	--	0.813	1.75	1.47
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1.0	0.5	<1	1	<1	2	<1	<1	<1	1.4	--	< 1.0	< 1.0	1.0
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	1.0	0.38	<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0	< 2.0	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	16.7	4.0	--	--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	--	--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	50	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--	--

										MW-15020													
										Assessment Monitoring													
										11/30/2018	11/30/2018	4/12/2019	9/26/2019	5/5/2020	10/28/2020	4/22/2021	10/20/2021	5/3/2022	10/20/2022	4/13/2023	10/3/2023	3/27/2024
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Pace 5/2020)	Downgradient													
Field Parameters											Field Dup												
pH	su	--	--	--	--	--	--	--	--	5.9	5.9	6.8	6.8	6.55	6.73	6.54	6.55	7.34	6.67	6.72	6.55	6.85
Conductivity	µS/cm	--	--	--	--	--	--	--	--	710	710	487	1,380	1,397	1,290	1,210	1,200	476	900	1,140	1,130	830
Turbidity	NTU	--	--	--	--	--	--	--	--	0.54	0.54	3.7	1.65	217.26	0.02	1.4	0.58	0.02	0.02	5.38	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	1.29	1.29	0.06	0.26	0.18	0.1	0.61	0.3	0.97	0.27	0.14	0.12	0.48
Temperature	°C	--	--	--	--	--	--	--	--	12.1	12.1	12.1	14.3	12.6	13.4	11.1	14.2	7.5	12.8	12.5	14.8	11.9
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	3.9	3.9	-120.7	-115.4	25.7	-131.4	-113.9	-110.5	-25.7	-14.4	-94.6	-29.2	-61.7
Appendix III																							
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	100	721	930	700	830	815	900	960	570	87	300	280	270	300
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	81.5	81.7	76	110	127	110	120	110	62	83	91	91	71
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	49.6	49.6	45	130	162	140	110	110	25	110	110	130	62
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	100	< 1,000	< 1,000	< 1,000	< 1,000	15	< 20	< 100	< 100	120	< 100	< 100	< 100	< 100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	1	6.9	--	6.8	6.8	6.8	6.7	6.5	6.6	7.12	6.67	6.72	6.55	6.85
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	0.25	< 2.0	< 2.0	< 2.0	2.9	< 0.25	< 0.6	< 3	< 3	12	< 3	< 3	< 3	< 3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	20	428	382	400	660	634	680	590	630	900	520	530	660	420
Appendix IV																							
Antimony	ug/L	6	6	6	130	6	1.4	6	1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.45	< 0.55	0.7	0.57	< 0.55	< 0.55	< 2.8	< 2.8	0.24
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	5	119	115	120	330	393	360	330	330	90	260	340	250	150
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.20	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1.0	< 1.0	< 1.0	< 1.0	1.1	0.5	0.5	0.8	0.55	0.4	0.39	< 1.2	< 1.2	< 0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	1.0	< 6.0	< 6.0	< 6.0	--	0.63	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6	0.18
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	100	< 1,000	< 1,000	< 1,000	< 1,000	15	< 20	< 100	< 100	120	< 100	< 100	< 100	< 100
Lead	ug/L	15	4	4	29	15	2	15	1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55	0.71	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	20.0	20	20	15	< 10	9.5	5.3	< 1.2	< 12	4.6	5.3	5.1	< 12	6.9
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	0.286	1.14	< 1.06	0.226	0.672	1.19	0.78	0.6	0.7	0.07	0.56	0.705	0.483	0.41
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.02	2.07	1.79	< 0.558	1.94	4.68	2.45	3.2	1.47	< 1	1.99	2.39	2.72	1.44
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	0.73	0.925	1.30	< 0.558	1.26	3.49	1.70	2.6	0.77	0.59	1.43	1.69	2.24	1.03
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	1.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	16.7	--	--		--	69	78	72	62	14	30	37	48	10
Michigan CCR																							
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	< 1	0.76	< 0.25	0.34	< 0.25	< 1.2	< 1.2	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	**27,000**	**29,000**	**27,000**	**580**	**18,000**	**21,000**	**20,000**	**12,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	< 50	0.61	0.68	0.27	< 1.2	< 6.2	< 6.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	< 10	1.7	< 1.2	2.2	< 1.2	29	18	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Pace 5/2020)	10/23/2024	4/22/2025
Field Parameters											
pH	su	--	--	--	--	--	--	--	--	6.75	6.82
Conductivity	µS/cm	--	--	--	--	--	--	--	--	820	605
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	7.97
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.05	0.21
Temperature	°C	--	--	--	--	--	--	--	--	13.6	12
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-57.1	-36.8
Appendix III											
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	100	380	400
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	88	85
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	62	57
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	100	< 200	150
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	1	6.75	6.82
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	0.25	< 6.0	< 1
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	20	430	430
Appendix IV											
Antimony	ug/L	6	6	6	130	6	1.4	6	1.0	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1.0	0.32	0.23
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	5	180	150
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.20	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.20	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1.0	0.28	0.26
Cobalt	ug/L	6	40	100	100	6	1.2	6	1.0	0.29	0.2
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	100	< 200	150
Lead	ug/L	15	4	4	29	15	2	15	1.0	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	20.0	9.2	11
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.20	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.0	0.25	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	0.286	0.35[U]	0.504
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.02	1.4	2.15
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	0.73	1.05	1.64
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1.0	< 0.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	1.0	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	16.7	8.0	34
Michigan CCR											
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 0.25	0.29
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**15,000**	**13,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	7.6	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 6/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	125	8.8	8.8	88	8.8	8.8	44	44	8.8
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	1.3	2.6	1.3	2.6	1.3	1.3	2.6
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5	0.1	3.8	7.5	7.5	7.5	7.5	7.5	3.8
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	100.0	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.25	0.60	3.00	3	3	3	3	3	3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20.0	20	40	20	20	50	40
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2	2.5	2.5	2.5	2.5	2.5	12	12	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	100	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	12	2.5	2.5	2.5	12	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.311	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.18	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.868	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	8.0	8.0	8.0	8.0	4.0	4	8
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	75	250	50	250	250	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2

											Sample Location:										
											Compliance Phase:	Background Monitoring								Detection	Initial A.M.
											Sample Dates:	12/2/2015	2/18/2016	4/14/2016	7/13/2016	10/5/2016	2/15/2017	4/6/2017	7/12/2017	9/13/2017	4/18/2018
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 10/2024)	RDL (Trace 04/2025)										
Field Parameters																					
pH	su	--	--	--	--	--	--	--	--	--	--	6.83	6.8	6.8	6.7	6.8	6.9	6.9	6.81	6.8	7.1
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	1,019	1,032	1,018	1,040	1,114	962	1,189	1,039	1,123	1,131
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	2.29	<1	<1	<1	1	<1	<1	1.05	2.32	8.3
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	0.33	0.2	0.3	0.2	0.6	0.5	0.1	0.11	0.24	0.21
Temperature	°C	--	--	--	--	--	--	--	--	--	--	13.17	9.1	12.6	17.3	14.8	10.9	7.3	13.76	13.87	12.2
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	-144.3	-111.7	-101.2	-97.6	-15.8	-108.6	-122.1	-83.0	-81.7	-97.3
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	44	8.8	362	489	400	425	491	465	519	519	602	--
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.3	1.3	86.4	98.5	89.6	97.4	96.9	97.9	96.3	86.8	91.3	--
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	3.8	3.8	88.0	82.7	87.2	98.3	98.9	94.6	93.9	97.0	108	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	20	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--	6.83	6.8	6.8	6.7	6.8	6.9	6.9	6.81	6.8	7.1
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6.0	1	<2	<2	<2	<2	<2	<2	<2	<2.0	<2.0	--
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	50	67	610	540	570	590	620	570	560	548	490	--
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55	3	1	1	2	2	2	2	1	--	< 1.0
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	2.5	274	244	236	233	252	240	228	211	--	236
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25	<1	2	2	2	1	2	2	<1	--	< 1.0
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52	<15	<15	<15	<15	<15	<15	<15	<15	--	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	0.55	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5	2.5	<10	<10	<10	<10	<10	<10	<10	<10	--	< 10
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	1.2	<5	<5	<5	<5	<5	<5	<5	<5	--	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	0.569	0.629	0.563	0.429	0.483	0.524	<0.215	<0.768	--	< 0.461
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0	1.55	1.41	1.41	1.30	2.00	0.966	<0.354	<1.47	--	< 1.96
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	0.984	0.782	0.846	0.871	1.52	<0.582	<0.354	<0.697	--	< 1.50
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5	1	2	1	4	<1	<1	1	1.6	--	< 1.0
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	0.38	<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.1	4.1	--	--	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	250	250	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--

										MW-15021												
										Assessment Monitoring												
										6/12/2018	11/30/2018	4/12/2019	9/26/2019	9/26/2019	5/5/2020	10/30/2020	4/21/2021	6/15/2021	10/20/2021	5/2/2022	10/20/2022	10/20/2022
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Downgradient												
Field Parameters														Field Dup			No sample					Field Dup
pH	su	--	--	--	--	--	--	--	--	6.8	6.7	6.7	6.9	6.9	6.7	6.9		6.7	6.71	6.85	6.64	6.64
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,035	1,076	762	1,150	1,150	1,082	1,220		1,400	1,510	1,640	1,490	1,490
Turbidity	NTU	--	--	--	--	--	--	--	--	0.7	1.2	3.4	7.95	7.95	179.52	7.66		0.02	0.02	0.02	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.37	1.96	0.08	0.32	0.32	0.24	0.87		0.1	0.27	0.37	0.09	0.09
Temperature	°C	--	--	--	--	--	--	--	--	17	12.06	11.3	13.2	13.2	12.4	12.6		13.6	13.1	12.2	13.1	13.1
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-107.8	-16.8	-124.9	-125.9	-125.9	-12.9	-156.9		-124.8	-114.1	-113.4	-103.5	-103.5
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	809	798	940	930	960	1080	540		350	140	280	280	280
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	89.4	96.6	93	92	95	101	92		1.3	130	110	120	120
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	112	120	110	110	110	125	150		3.80	230	260	290	290
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	<1,000	< 1,000	< 1,000	< 1,000	< 1,000	13	< 20		< 100	< 100	< 100	< 100	< 100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	6.8	6.7	6.7	6.9	--	7.1	6.94		6.70	6.71	6.67	6.64	6.64
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	< 2.0	< 2.0	< 2.0	< 20	< 20	< 0.25	< 0.6		3.00	< 3	< 3	< 3	< 3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	576	534	590	570	570	543	660		830	820	690	940	960
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 0.25		<0.25	< 0.25	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.6	0.73		0.12	1.5	1.3	1.7	1.6
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	238	224	250	240	230	236	280		350	380	360	410	410
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	--	--	0.024	< 0.25		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.20	< 0.20	--	--	< 0.20	< 0.25		< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.1	< 1.0	1.2	1.2	1.1	0.7	0.7		0.77	0.94	1.0	0.82	0.85
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 15.0	< 6.0	< 6.0	--	--	0.47	< 0.52		0.76	1.0	0.96	0.81	0.83
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	<1,000	< 1,000	< 1,000	< 1,000	< 1,000	13	< 20		< 100	< 100	< 100	< 100	< 100
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 0.55		< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	< 10	< 10	< 8.0	< 10	< 10	<4.1	2.1		< 1.2	< 12	< 2.5	2.7	2.6
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.20	--	--	< 0.20	< 0.2		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.2		< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.689	1.49	0.531	0.794	0.460	0.328	0.470		0.67	0.46	0.39	-0.22[U]	0.650
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.97	2.61	1.31	1.53	1.05	0.490	1.770		2.77	1.39	0.98	2.50	2.94
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.60	1.12	0.783	0.738	0.587	0.162	1.300		2.1	0.93	0.59	2.50	2.290
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 2.0	< 2.0	--	--	< 1.0	< 0.38		< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--		< 2.5	32		72	36	46	26	20[J]
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	< 1		<0.25	< 0.25	< 0.25	< 0.25	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	--	**18,000**		**21,000**	**29,000**	**23,000**	**26,000**	**26,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	< 50		<0.25	< 0.25	0.29	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	< 0.2		<0.05	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	< 10		1.3	< 1.2	< 1.2	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	< 10		26	1.2	10	1.2	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	4/13/2023	10/3/2023	3/27/2024	10/23/2024	4/23/2025
Field Parameters														
pH	su	--	--	--	--	--	--	--	--	6.77	6.59	6.79	6.58	6.72
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,850	1,460	1,870	1,770	2
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	0.02	0.02	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.15	0.14	0.45	0.02	0.07
Temperature	°C	--	--	--	--	--	--	--	--	12.5	15	11.3	13.2	12.8
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-138.6	-29.5	-69.6	-70.9	-80
Appendix III														
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	240	230	200	250	260
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	130	130	110	140	130
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	300	370	280	280	310
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 100	< 100	< 100	< 200	68
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	6.77	6.59	6.79	6.58	6.72
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	< 3	1.2	< 3	< 6.0	< 1
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	930	1,100	970	950	1000
Appendix IV														
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.2	< 1.2	0.15[J+]	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 2.8	1.2	1.1	1.3	1.4
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	480	390	320	430	380
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.2	< 1.2	0.72	0.99	0.96
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 2.6	1.0	0.7	0.9	0.9
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 100	< 100	< 100	< 200	68
Lead	ug/L	15	4	4	29	15	2	15	1	< 2.8	< 2.8	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	3.7	< 12	2.3	3.7	3
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	**0.75**	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 6.2	< 6.2	< 1.2	< 1.2	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.697	0.965	0.577	0.66	0.578
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.87	3.24	2.61	0.72[U]	1.46
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.18	2.27	2.03	0.06[U]	0.879
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 2.5	< 2.5	0.15	0.19	0.12
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 1.9	< 1.9	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	57	62	30	10	58
Michigan CCR														
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 1.2	< 1.2	< 0.25	< 0.25	31
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**28,000**	**27,000**	**22,000**	**30,000**	**24,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 6.2	< 6.2	< 1.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.25	< 0.25	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 6.2	< 6.2	< 1.2	1.4	1.4
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	43	26	< 1.2	15	3.5

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 8/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	1,000	8.8	8.8	8.8	8.8	8.8	8.8	44	44
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	2.6	2.6	1.3	2.6	2.6	1.3	1.3
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5	0.1	1	0.75	0.75	0.75	3.8	0.75	7.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	4,000	150	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	25	0.60	30	6	30	3	3	3	3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	20	10.0	20	20	20	20	20	20	10
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	0.25	1.2	1.2
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	0.55	2.8	2.8
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	2.5	12	12
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	0.25	1.2	1.2
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	0.25	1.2	1.2
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	0.25	1.2	1.2
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	0.52	2.6	2.6
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	4,000	150	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	0.55	2.8	2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	2.5	12	12
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	1.2	6.2	6.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.197	1.0	0.25	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.19	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.994	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	0.5	2.5	2.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	0.38	1.9	1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	20.0	4.0	8.0	8.0	4.0	8.0	4.0	4
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	0.25	1.2	1.2
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	50	50	250
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	0.25	1.2	6.2	6.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.05	0.25	0.25
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	1.2	6.2	6.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	1.2	6.2	6.2

												Sample Location:								
												Compliance Phase:	Background Monitoring							Detection
												Sample Dates:	12/2/2015	2/18/2016	4/14/2016	7/14/2016	10/5/2016	2/15/2017	4/6/2017	7/12/2017	9/13/2017
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 03/2024)	RDL (Trace 10/2024)	RDL (Trace 04/2025)									
Field Parameters																					
pH	su	--	--	--	--	--	--	--	--	--	--	--	8.29	8.5	8.2	8.2	8.1	7.8	8.1	8.36	7.6
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	383	377	422	356	365	421	380	414	376
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	0.34	<1	<1	<1	<1	<1	<1	1.30	2.84
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.53	0.2	0.4	0.3	0.3	0.5	0.5	0.10	0.3
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	10.47	5.0	11.6	14.6	13.9	9.6	10.1	15.20	15.43
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	-72.3	-91.2	-64.5	-74.4	-172.3	-121.4	-163.8	-271.2	-71.3
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	44	44	8.8	250	388	387	362	391	394	434	478	**833**
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.3	1.3	1.3	46.7	46.4	47.8	43.0	43.7	54.1	49.3	51.8	35.2
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	0.75	1.5	0.5	25.0	18.7	17.6	16.8	17.1	18.2	18.6	22.1	23.3
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	200	200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--	--	8.29	8.5	8.2	8.2	8.1	7.8	8.1	8.36	7.6
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	3	15	6	39.0	38.3	29.9	34.3	32.8	34.1	32.8	45.9	44.1
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	40	50	40	270	210	250	250	210	250	230	254	266
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55	0.55	6	7	8	8	6	4	4	5.8	--
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	2.5	2.5	139	119	155	116	119	137	129	138	--
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25	0.25	<1	1	2	1	<1	<1	<1	<1	--
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52	0.52	<15	<15	<15	<15	<15	<15	<15	<15	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	200	200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	0.55	0.55	<1	<1	<1	<1	<1	<1	<1	<1	--
Lithium	ug/L	40	170	350	440	40	48	48	10	2.5	2.5	2.5	<10	<10	<10	<10	<10	<10	<10	<10	--
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	1.2	1.2	22	16	11	17	19	12	14	13.6	--
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	1.0	0.246	<0.242	<0.247	<0.150	<0.346	<0.217	<0.291	<0.468	--
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0	1.0	<0.484	<0.450	0.812	<0.472	<0.514	<0.477	0.862	<1.27	--
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	1.0	<0.484	<0.450	0.740	<0.472	<0.514	<0.477	0.709	<0.799	--
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5	0.5	<1	<1	<1	<1	<1	<1	<1	<1	--
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	0.38	0.38	<2	<2	<2	<2	<2	<2	<2	<2	--
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	8	4.0	4.0	--	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25	0.25	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	50	50	50	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2	1.2	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05	0.05	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2	1.2	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2	1.2	--	--	--	--	--	--	--	--	--

										MW-15022												
										Initial A.M.	Assessment Monitoring											
										4/18/2018	6/11/2018	11/27/2018	4/12/2019	9/25/2019	5/5/2020	10/28/2020	4/21/2021	10/20/2021	5/2/2022	8/11/2022	10/20/2022	4/12/2023
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Downgradient												
Field Parameters																						
pH	su	--	--	--	--	--	--	--	--	7.8	8.3	7.8	7.7	7.5	7.53	7.37	7.93	8.41	7.66	6.96	7.07	7.1
Conductivity	µS/cm	--	--	--	--	--	--	--	--	388	377	1,605	1,475	2,296	1,465	1,600	1,720	960	1,120	1,100	700	1,080
Turbidity	NTU	--	--	--	--	--	--	--	--	1.9	1.1	0.66	1.4	0.2	43.28	4.04	2.02	5.94	3.69	0.02	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.21	0.35	0.21	0.08	0.15	0.22	0.02	0.56	0.01	0.04	0.05	0.10	0.09
Temperature	°C	--	--	--	--	--	--	--	--	14	18.8	11.77	12.3	15.9	15.4	14.4	13.6	13.7	11.3	13.6	13.4	13.3
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-82.1	-190.5	1.2	-204.1	-279	-96.6	-211	-138.9	-328.9	-201.2	-201.5	-101.2	-229
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	--	1,170	**3,840**	**6,800**	**10,000**	**8,310**	**8,600**	**2,600**	**1,400**	910	1,300	**1,500**	1,300
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	--	38.2	265	310	300	172	180	270	140	160	160	160	150
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	--	21.5	23.1	19	24	37	42	18	20	30	46	69	57
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	<1,000	<1,000	< 1,000	< 1,000	< 1,000	380	440	280	< 100	130	160	< 100	110
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.8	8.3	7.8	7.7	7.5	7.7	7.4	7.9	8.4	7.59	7.62	7.07	7.1
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	--	24.1	**953**	**1,100**	**1,200**	**587**	**700**	**710**	200	220	190	5.6	4.9
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	--	210	1,670	1,900	1,900	1,140	1,200	1,400	600	780	660	710	610
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.9	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 1.0	1.1	< 1.0	1.4	4.0	0.6	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	102	104	242	190	130	135	290	210	120	140	220	260	210
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.37	< 1.2
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 15.0	< 15.0	< 6.0	< 6.0	--	0.19	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	<1,000	<1,000	< 1,000	< 1,000	< 1,000	380	440	280	< 100	130	160	< 100	110
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	13	11	25	23	22	23	20	15	14	32	30	**44**	25
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 5.0	< 5.0	47.6	< 5.0	< 5.0	3.6	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.666	< 0.708	< 0.596	< 0.182	0.261	0.286	0.260	0.75	0.45	0.1	0.618	0.19[U]	0.177[U]
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.13	< 1.45	< 1.40	< 0.470	0.877	3.50	< 1	1.28	0.45	< 1	0.955	0.19[U]	0.837
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.644	< 0.742	< 0.807	< 0.470	0.617	3.22	-0.16	0.53	-1.9	-0.16	0.647	-0.63[U]	0.66[U]
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	--	< 2.5	< 20	< 4	< 8	< 8	< 4	28	< 4
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	--	< 1	< 0.25	< 0.25	< 0.25	< 0.25	0.49	< 1.2
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	--	< 200	13	32	< 50	< 50	230	150
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	--	< 50	1.3	0.28	< 0.25	< 0.25	< 1.2	< 6.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	1.8	< 6.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	1.6	19

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	10/4/2023	3/28/2024	10/23/2024	4/232025
Field Parameters													
pH	su	--	--	--	--	--	--	--	--	6.75	7.11	6.63	7
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,390	1,350	1,520	1,110
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	0.02	0.02	3.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.07	0.18	0.25	0.38
Temperature	°C	--	--	--	--	--	--	--	--	13.5	11	13.4	11.5
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	45.2	12.2	-77.7	-69.7
Appendix III													
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	1,300	1,200	1,200	1,200
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	180	150	240	150
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	120	97	94	89
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 100	< 100	< 200	130
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	6.75	7.11	6.63	6.88
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	0.86	< 3	250	3
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	810	800	960	620
Appendix IV													
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.2	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 2.8	0.19	0.21	0.21
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	220	150	230	190
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.2	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 1.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.2	0.28	0.39	0.24
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.35	0.35	0.25
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 100	< 100	< 200	130
Lead	ug/L	15	4	4	29	15	2	15	1	< 2.8	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	**68**	**47**	**62**	**53**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	**0.29**	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 6.2	0.32^{J+}	0.42	0.31
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.148^{U}	0.617	0.88	0.273
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	0.666^{UJ}	1.51	0.88	0.644
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.519^{UJ}	0.891	-0.04^{U}	0.371
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 2.5	< 0.5	0.11	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 1.9	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4	4	< 4.0	< 4.0
Michigan CCR													
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 1.2	0.46	0.2	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	410	250	50	110
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 6.2	< 1.2	0.81	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.25	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 6.2	1.3	2.4	1.7
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	15	12	8.8	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	50	8.8	8.8	8.8	8.8	8.8	44	44	88
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	0.26	0.26	1.3	2.6	1.3	1.3	2.6
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5	0.1	7.5	3.8	0.75	0.75	0.75	0.75	3.8
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	100	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	5	0.60	3	3	3	3	15	3	15
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	20	20	20	20	10	40
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	0.10	20.0	100	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	2.5	12	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A		1.0	0.32	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A		1.0	0.53	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A		1.0	0.53	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	7.8	8.0	4.0	4	8
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	250	250	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2

											Sample Location:										
											Compliance Phase:	Background Monitoring								Detection	Initial A.M.
											Sample Dates:	12/2/2015	2/18/2016	4/14/2016	7/14/2016	10/5/2016	2/15/2017	4/5/2017	7/11/2017	9/13/2017	4/18/2018
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 10/2024)	RDL (Trace 04/2025)										
Field Parameters																					
pH	su	--	--	--	--	--	--	--	--	--	--	7.43	7.5	7.5	7.5	7.4	7.6	7.6	7.63	7.6	7.6
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	493	456	436	447	480	446	600	452	519	981
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	0.89	<1	<1	<1	<1	<1	2	0.56	1.28	1.1
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	0.27	0.2	0.3	0.5	0.5	0.6	0.1	0.13	0.22	0.29
Temperature	°C	--	--	--	--	--	--	--	--	--	--	13.49	6.8	10.7	16.9	14.8	7.3	8.1	12.84	14.16	11.3
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	-139.1	-82.7	-79.0	-72.7	-75.0	-53.4	-83.6	-46.3	-33.4	-15.5
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	44	8.8	414	284	267	308	526	484	**1,590**	701	504	--
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.3	1.3	59.7	59.4	53.3	54.1	64.0	59.9	74.5	50.8	60.9	--
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	1.5	30.0	26.9	24.6	28.7	24.8	23.8	24.6	26.8	25.5	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	20	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--	7.43	7.5	7.5	7.5	7.4	7.6	7.6	7.63	7.6	7.6
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	15	30	20.0	26.5	28.9	25.0	24.3	21.0	22.5	22.6	36.2	--
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	50	40	240	270	270	290	290	280	300	290	408	--
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55	2	2	1	3	2	2	<1	1.9	--	< 1.0
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	2.5	57	48	43	40	47	42	46	38.0	--	97.1
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25	<1	<1	2	1	<1	<1	<1	<1	--	< 1.0
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52	<15	<15	<15	<15	<15	<15	<15	<15	--	< 15.0
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	0.55	<1	<1	<1	<1	<1	<1	<1	<1	--	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	10	12	12	12.1	10.6	<10	<10	<10	<10	11	<10	--	19
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	1.2	8	6	<5	7	6	6	<5	6	--	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	0.232	<0.237	<0.242	0.226	<0.309	0.257	0.455	<0.889	--	< 0.572
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0	<0.530	0.599	<0.456	<0.545	<0.355	0.426	1.42	<1.53	--	< 1.32
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	<0.530	0.426	<0.456	<0.545	<0.355	<0.400	0.963	<0.636	--	< 0.749
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5	<1	<1	<1	1	<1	<1	<1	<1	--	< 1.0
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	0.38	<2	<2	<2	<2	<2	<2	<2	<2	--	< 2.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	4.0	--	--	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	250	250	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	--

										MW-15023												
										Assessment Monitoring												
										6/11/2018	11/29/2018	4/12/2019	9/26/2019	5/6/2020	10/30/2020	4/21/2021	10/22/2021	5/2/2022	10/19/2022	4/13/2023	10/3/2023	3/27/2024
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Downgradient												
Field Parameters																						
pH	su	--	--	--	--	--	--	--	--	7.4	7.5	7	7.5	7.51	7.68	7.24	7.26	7.51	7.47	7.25	6.89	7.16
Conductivity	µS/cm	--	--	--	--	--	--	--	--	702	655	602	770	614	588	930	477	490	350	636	421	1,310
Turbidity	NTU	--	--	--	--	--	--	--	--	0.4	0.41	5.2	0.65	4.68	1.7	0.02	1.48	0.02	0.02	0.02	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.35	0.81	0.41	0.35	0.29	0.59	0.45	0.04	0.04	0.17	0.12	0.07	0.34
Temperature	°C	--	--	--	--	--	--	--	--	17.8	10.26	11.1	13	11.2	12.5	9.3	18.8	8.8	10.6	11.9	13.2	10.5
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-68.7	30.9	-30.7	-128.7	144.1	-159.8	-193.7	-111.4	-82.9	-108.4	-127.5	31.9	-70.4
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	**1,650**	**1,350**	**2,600**	1,000	717	610	880	690	180	200	330	180	1,300
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	98.9	116	120	100	85	73	86	52	56	51	78	54	110
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	19.4	17.0	16	16	15	12	110	46	34	29	41	23	140
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	<1,000	< 1,000	< 1,000	< 1,000	120	120	260	260	140	100	< 100	89	110
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.4	7.5	7.0	7.5	7.8	7.7	7.2	7.3	7.55	7.47	7.25	6.89	7.16
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	139	156	140	130	113	130	38	20	47	9.9	< 15	< 3	130
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	474	530	600	490	384	340	520	320	320	280	*750 R*	240	740
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 1.0	< 1.0	< 1.0	< 1.0	0.59	< 0.55	0.7	0.67	0.74	1.8	< 2.8	0.65	9.4
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	87.8	90.4	100	92	78	70	89	53	47	42	85	42	99
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 1.0	< 1.0	< 1.0	< 1.0	0.26	< 0.25	< 0.25	0.26	< 0.25	< 0.25	< 1.2	< 1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 15.0	< 6.0	< 6.0	--	0.11	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	<1,000	< 1,000	< 1,000	< 1,000	120	120	260	260	140	100	< 100	89	110
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	18	20	31	13	18	13	24	15	8.7	8.3	12	10	28
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	**0.55**	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	7.1	6.6	< 5.0	5.1	6.2	5.9	20	30	6.6	10	7.5	8.7	34
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.958	< 0.537	0.181	0.209	0.178	0.150	0.48	0.3	0.24	0.23^{U}	0.141^{U}	0.115^{U}	0.244
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	< 1.85	< 1.72	0.952	0.527	0.178	0.780	1.11	0.3	< 1	0.23^{U}	0.298^{UJ}	0.594^{UJ}	0.924
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	< 0.891	< 1.18	0.771	< 0.400	-1.24	0.63	0.63	0.08	-0.5	-1.54^{U}	0.157^{U}	0.478^{UJ}	0.68
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 1.0	< 1.0	< 1.0	< 1.0	0.32	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	--	--	--	--	< 2.5	< 4	< 4	< 8	< 7.8	< 8	*< 4 UR*	< 4	< 8
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	--	--	--	--	< 1	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	--	--	--	--	**420**	**830**	**850**	**1,200**	**1,400**	**1,800**	**1,300**	**11,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	--	--	--	--	< 50	0.68	0.29	< 0.25	< 1.2	< 6.2	< 6.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	--	--	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	--	--	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	7.9	< 6.2	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	10/23/2024	4/22/2025
Field Parameters											
pH	su	--	--	--	--	--	--	--	--	6.9	6.88
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,580	1,384
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	5.25
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.11	0.22
Temperature	°C	--	--	--	--	--	--	--	--	12.5	10.4
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-44.1	-25.4
Appendix III											
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	**3,100**	**3,100**
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	180	280
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	160	160
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 200	91
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	6.9	6.88
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	290	560
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	1100	1400
Appendix IV											
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	9.9	27
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	190	270
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	0.48	0.3
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.11	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 200	91
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	36	**67**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	21	16
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.74	0.567
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.71	3.28
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.97	2.71
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.11	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	7.1	44
Michigan CCR											
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 0.25	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**12,000**	**17,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	7.6	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	Sample Location:	MW-17001								
											Compliance Phase:	Background & Detection		Assessment Monitoring						
											Sample Dates:	12/7/2017	2/20/2018	6/15/2018	8/6/2018	11/29/2018	11/29/2018	4/11/2019	9/26/2019	5/6/2020
												Downgradient (Shallow 2017 Wells)								
Field Parameters																	Field Dup			
pH	su	--	--	--	--	--	--	--	--	--		7.1	7.0	7.2	6.9	7.3	7.3	6.9	7	7.09
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--		920	943	903	894	731	731	661	862	1,092
Turbidity	NTU	--	--	--	--	--	--	--	--	--		3.4	3.1	3.6	3.7	0.87	0.87	4.1	0.55	48.22
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--		0.10	0.20	0.22	0.35	0.28	0.28	-0.01	0.28	0.43
Temperature	°C	--	--	--	--	--	--	--	--	--		11.9	11.6	15.0	17.6	11.55	11.55	10.4	15.5	11.4
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--		-253.7	-206.4	-328.2	69.7	-136.2	-136.2	-312.2	-149.8	-318.2
Appendix III																				
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	125		991	827	1,100	1,220	**1,480**	**1,550**	**1,700**	**1,800**	**1,780**
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1		118	118	124	117	135	134	130	120	167
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5		27.3	28.5	29.1	29.1	29.0	29.2	31	28	31
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	97
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1		7.1	7.0	7.2	6.9	7.3	--	6.9	7.0	7.4
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	5		156	135	90.8	18.7	148	140	64	17	138
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0		558	552	566	476	568	554	570	490	682
Appendix IV																				
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0		< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	--	< 1.0
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0		5.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.72
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0		85.6	71.3	65.8	73.8	74.4	70.6	82	81	92
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.20
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	0.18
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0		< 15.0	< 15.0	< 15.0	< 15.0	< 6.0	< 6.0	< 6.0	--	0.21
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	97
Lead	ug/L	15	4	4	29	15	2	15	1	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0		**55**	**73**	**65**	**62**	**64**	**63**	**43**	**60**	**77**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.76
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.413		< 0.509	< 0.890	< 0.766	< 0.616	< 0.942	< 0.754	0.314	0.260	0.0779
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.15		< 1.34	< 1.79	< 1.71	< 1.44	< 1.69	< 1.45	0.721	1.08	0.0779
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.732		< 0.830	< 0.901	< 0.947	< 0.822	0.989	1.20	< 0.413	0.821	-0.413
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0		< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	0.31
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5		--	--	--	--	--	--	--	--	< 2.5
Michigan CCR																				
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--		--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	5,600 or UTL	--	--		--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--		--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--		--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--		--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--		--	--	--	--	--	--	--	--	--

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Pace 5/21)	RDL (Pace 6/15)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)
Field Parameters																			
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	125	8.8	8.8	44	44	8.8	8.8	44	88	44
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	1.3	1.3	5.1	13	1.3	1.3	2.6	1.3
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	2.5	2.5	0.1	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	100	100	20.0	100	100	100	100	100	100	100	200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	1	1	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2.5	2.5	0.60	3	3	15	15	30	3	6	6.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10.0	10.0	10.0	20	40	40	20	20	50	40	50
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1.0	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1.0	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1.0	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.20	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.20	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1.0	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	1.0	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	100	100	20.0	100	100	100	100	100	100	100	200
Lead	ug/L	15	4	4	29	15	2	15	1.0	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Lithium	ug/L	40	170	350	440	40	48	48	20.0	20.0	1.2	1.2	1.2	2.5	2.5	2.5	12	2.5	12
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.20	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.0	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	0.217	0.284	1.0	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.08	1.250	1.0	0.45	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	0.862	0.962	1.0	0.45	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1.0	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	1.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	16.0	8.0	4.0	4	8	4.0
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	250	2500	250	250	50	250
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Pace 5/21)	RDL (Trace 04/2025)	Sample Location:	MW-17001R										
											Compliance Phase:	Assessment Monitoring										
											Sample Dates:	5/21/2020	6/15/2020	10/29/2020	4/21/2021	10/22/2021	5/4/2022	10/20/2022	4/12/2023	10/4/2023	10/4/2023	3/27/2024
												Downgradient (Shallow 2017 Wells)										
Field Parameters																					Field Dup	
pH	su	--	--	--	--	--	--	--	--	--		7.32	7.68	6.98	6.7	6.56	6.74	6.68	6.54	6.61	6.61	6.84
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--		1,144	1,460	1,040	900	890	1,330	1,200	1,450	1,610	1,610	1,910
Turbidity	NTU	--	--	--	--	--	--	--	--	--		1.55	11.8	3.88	0.02	6.52	0.02	1.90	2.64	0.02	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--		0.17	0.17	0.1	0.3	0.17	0.09	0.02	0.14	0.43	0.43	0.19
Temperature	°C	--	--	--	--	--	--	--	--	--		11	13.2	13.1	12.9	13.2	11.7	13.2	12.4	14.2	14.2	10.6
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--		-324	-103.1	-353.9	-59.7	-138.4	-61.6	-110.1	-93.4	-87.6	-87.6	122.3
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	8.8		**2,060**	**1,940**	**2,100**	**2,000**	**2,100**	**2,400**	**2,100**	**2,200**	**2,000**	**2,100**^{J}	**2,000**
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	2.6		158	150	160	130	140	210	200	210	210	220	270
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	2.5	1.5		30	28	21	36	39	35	46	46	59	59	34
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	100	200		160	180	120	130 J	< 100	160	< 100	100	130	150	120
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	1	--		7.5	7.1	7.0	6.7	6.6	6.7	6.68	6.54	6.61	6.61	6.84
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2.5	30		220	122	4	3	< 3	140	140	120	90	88	150
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10.0	40		751	622	620	520	340	810	850	900	940	940	1,300
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1.0	0.25		0.12	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 1.2	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1.0	0.55		7.3	2	0.71	< 0.55	< 0.55	< 0.55	0.56	< 2.8	< 2.8	< 2.8	0.2
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1.0	2.5		91	101	100	120	130	180	210	220	230	240	200
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.20	0.25		< 0.20	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 1.2	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.20	0.25		< 0.20	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 1.2	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1.0	0.25		0.17	0.18	< 0.25	0.28	0.33	< 0.25	< 0.25^{UJ}	< 1.2	< 1.2	< 1.2	< 0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	1.0	0.52		0.25	0.29	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	0.83	0.74	0.26
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	100	200		160	180	120	130	< 100	160	< 100	100	130	150	120^{J+}
Lead	ug/L	15	4	4	29	15	2	15	1.0	0.55		< 1.0	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	< 2.8	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	20.0	12		**97**	**75**	**93**	25	26	**50**	**50**	**100**	**47**	**48**	**90**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.20	0.2		< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.0	1.2		2.5	0.37	< 1.2	< 1.2	< 1.2	1.9	2.0	< 6.2	< 6.2	< 6.2	0.43^{J+}
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	0.217	1.0		0.112	0.128	0.270	0.85	0	0.23	0.52	0.371	0.262^{J-}	0.671^{J+}	0.378
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.08	1.0		0.31	0.806	0.930	1.24	0	0.23	2.02	1.08	1.89	1.47	1.4
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	0.862	1.0		0.196	0.679	0.660	0.39	0.47	-0.54	1.5	0.712	1.63^{J+}	0.797^{UJ}	1.02
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1.0	0.5		< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	< 2.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	1.0	0.38		< 1.0	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	< 1.9	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0		< 2.5	< 2.5	< 4	44	42	72	56	42	54	51	< 8^{UJ}
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25		--	--	< 1	0.32	0.39	< 0.25	< 0.25	< 1.2	< 1.2	< 1.2	0.21
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	250		--	--	< 200	**17,000**	**22,000**	**28,000**	**24,000**	**17,000**	**17,000**	**18,000**^{J}	**5,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2		--	--	< 50	< 0.25	< 0.25	< 0.25	< 1.2	< 6.2	< 6.2	< 6.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05		--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.25	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2		--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 6.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2		--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	21	16	16	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Pace 5/21)	3/27/2024	10/23/2024	4/22/2025
Field Parameters										Field Dup		
pH	su	--	--	--	--	--	--	--	--	6.84	6.8	6.81
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,910	2,240	1,815
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.19	0.06	0.11
Temperature	°C	--	--	--	--	--	--	--	--	10.6	14.7	11.6
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	122.3	-210.6	-279.9
Appendix III												
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	**2,000**	**4,000**	**2,400**
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	280	380	470
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	2.5	34	30	27
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	100	78	< 200	120
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	1	6.84	6.8	6.81
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2.5	150	150	**490**
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10.0	1,300	1500	1,900
Appendix IV												
Antimony	ug/L	6	6	6	130	6	1.4	6	1.0	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1.0	0.18	0.19	0.3
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1.0	200	230	300
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	0.20	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.20	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1.0	< 0.25	0.21	< 0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	1.0	0.26	0.39	0.22
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	100	78 J-	< 200	120
Lead	ug/L	15	4	4	29	15	2	15	1.0	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	20.0	**89**	**120**	**170**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.20	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	1.0	< 1.2 UJ	0.48	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	0.217	0.452	0.6	0.556
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	1.08	1.94	1.4	1.18
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	0.862	1.49	0.8	0.625
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1.0	< 0.5	< 0.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	1.0	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	10 J+	7.0	6
Michigan CCR												
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.24	< 0.25	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**4,900**	**880**	**1,200**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 1.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	< 1.2	9	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--		--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	1,000	8.8	8.8	8.8	44	8.8	44	44	880
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	2.6	1.3	13	13	1.3	1.3	26
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	0.250	0.1	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	100	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	25	0.60	30	60	60	60	30	30	60
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	40	40	20	20	50	40
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	100	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	2.8	0.55	0.55	2.8	2.8	2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	12	12	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	12	6.2	6.2	6.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.217	1.0	0.21	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.07	1.0	0.47	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.854	1.0	0.47	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	1.9	0.38	0.38	1.9	1.9	1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	16.0	8.0	4.0	4	8
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	250	2500	250	250	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2

											Sample Location:									
											Compliance Phase:	Background & Detection								
											Sample Dates:	12/7/2017	2/20/2018	6/15/2018	8/6/2018	11/29/2018	4/11/2019	9/26/2019	5/6/2020	10/29/2020
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 10/2024)	RDL (Trace 04/2025)									Downgradie
Field Parameters																				
pH	su	--	--	--	--	--	--	--	--	--	--	7.0	7.1	7.2	7.1	7	6.6	7.3	6.9	7.6
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	1,069	1,252	1,227	1,090	871	946	1,206	1,361	1,160
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	4.3	2.9	2.0	2.8	0.56	0.3	0.2	2.0	1.6
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	0.10	0.21	0.26	0.35	0.43	0.0	0.35	0.23	0.22
Temperature	°C	--	--	--	--	--	--	--	--	--	--	11.3	11.1	14.6	17.4	12.18	10.3	13.8	10.8	12.7
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	-283.4	-262.1	-365.0	-294.3	-152.8	-339.3	-348.5	-184.6	-393.3
Appendix III																				
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	88	44	**8,280**	**12,800**	**13,300**	**9,440**	**9,030**	**9,200**	**13,000**	**10,800**	**16,000**
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	2.6	2.6	178	201	224	194	197	220	200	254	220
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	1.5	15.3	14.2	13.2	15.4	16.8	15	12	8	4
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	20	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	160	240
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--	7.0	7.1	7.2	7.1	7.0	6.6	7.3	7.1	7.6
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	30	30	**330**	**325**	**332**	226	**402**	**690**	**540**	**483**	**280**
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	53	67	726	892	936	740	800	1,000	860	1,060	860
Appendix IV																				
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25	1.5	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	--	< 1.0	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55	**45.5**	2.0	2.6	3.8	2.0	1.6	1.8	0.6	1.4
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	2.5	148	76.7	62.8	57.6	97.7	130	75	135	71
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.15	0.4
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52	< 15.0	< 15.0	< 15.0	< 15.0	< 6.0	< 6.0	--	0.3	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	200	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	160	240
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	0.55	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	25	25	**75**	**160**	**150**	**130**	**120**	**100**	**140**	**141**	**140**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	62	62	30.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.7	3.5
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	< 1.03	< 1.07	< 0.757	0.306	< 0.968	0.233	0.501	0.592	0.390
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0	< 2.03	< 4.84	< 3.11	1.56	2.29	0.688	0.702	0.742	0.940
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	< 0.996	< 3.77	< 2.35	1.25	2.01	< 0.598	< 0.527	0.150	0.550
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5	1.1	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	0.38	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	4.0	--	--	--	--	--	--	--	< 2.5	< 4
Michigan CCR																				
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25	--	--	--	--	--	--	--	--	< 1
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	500	500	--	--	--	--	--	--	--	--	220
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	< 50
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05	--	--	--	--	--	--	--	--	< 0.2
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	< 10
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	< 10

										MW-17002									
										Assessment Monitoring									
										4/21/2021	10/22/2021	5/4/2022	5/4/2022	10/20/2022	4/12/2023	10/2/2023	3/27/2024	10/23/2024	4/23/2025
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	nt (Shallow 2017 Wells)									
Field Parameters													Diss. Metals						
pH	su	--	--	--	--	--	--	--	--	7.4	7.1	7.01	-	6.92	6.89	6.65	7.08	7	7
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,100	2,040	2,780	-	2,210	2,340	2,180	2,270	2,480	1,668
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	12.5	45.9	-	3.24	4.35	0.02	5.02	2.48	5.14
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.09	0.04	0.17	-	0.03	0.13	0.18	0.17	0.04	0.15
Temperature	°C	--	--	--	--	--	--	--	--	11.7	13.5	9.6	-	13.3	11.4	15	9.6	14.9	11
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-346.6	-131.1	-72.5	-	-95.1	-90.4	-78.5	113.3	-115.1	-39.1
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	**12,000**	**13,000**	**20,000**	**18,000**	**12,000**	**18,000**	**12,000**	**14,000**	**18,000**	**17,000**
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	210	410	**590**	**570**	450	440	380	400	490	470
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	2.7	12	9.80	-	13	8.20	12	8.4	9.2	10
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	530	260	210	-	340	290	230	250	< 200	280
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.4	7.1	6.84	-	6.92	6.89	6.65	7.08	7	7
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	**260**	**960**	**1,400**	-	**1,100**	**770**	**720**	**680**	**590**	**680**
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	770	1,400	2,500	-	2,000	1,800	1,700	1,900	1800	1,900
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	0.14^{J+}	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	**31**	6.3	**37**	1.2	**58**	**220**	**63**	**92**	**100**	**90**
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	83	240	99	80	170	66	85	39	69	54
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	0.14	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 0.25	0.26	1.2	< 0.25	< 1.2	< 1.2	0.35	0.35	0.26
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	< 0.25	0.33	< 0.25	0.33^{J}	< 1.2	< 1.2	< 0.25	0.47	0.29
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6	< 0.52	0.42	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	530	260	210	-	340	290	230	250	< 200	280
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	< 2.8	< 0.55	< 0.55	< 0.55^{UJ}	< 2.8	< 2.8	< 2.8	0.13	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	**46**	**190**	**220**	**230**	**160**	**220**	**170**	**220**	**240**	**240**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	8.8	210	1,800	**1,800**	**1,100**	**1,800**	**700**	**1,300**	**1,100**	**770**
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.32	0.87	0.1	-	0.39	0.193	0.422	0.267	0.61	0.556
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.02	2.76	0.1	-	**5.04**	0.551^{U}	1.07	0.474^{U}	1.54	1.19
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.7	1.89	-0.49	-	4.65	0.358^{U}	0.647^{U}	0.207^{U}	0.93	0.637
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	0.11	0.26	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 1.9	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	< 1.9	0.12	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	< 4	< 8	84	-	66	79	57	110	99	72
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	7.4	1.4	15	< 0.25	0.4	< 1.2	< 1.2	0.25	0.39	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	180	3,300	**39,000**	**11,000**	**31,000**	**39,000**	**27,000**	**39,000**	**42,000**	**26,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	< 0.25	< 0.25	0.53	< 0.25	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2	1.2	0.69
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	< 1.2	< 1.2	1.4	< 1.2	< 1.2^{UJ}	6.3	5.9	< 1.2	2.5	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	25.0	8.8	8.8	8.8	8.8	8.8	44	44	88
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	2.6	1.3	5.1	26	1.3	1.3	2.6
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5	0.1	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	100	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	5	0.60	60	3	30	15	60	60	60
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	20	40	20	20	50	40
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	100	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	12	12	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	6.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.361	1.0	0.21	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.26	1.0	0.91	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.902	1.0	0.91	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	8.0	8.0	4.0	4	8
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	250	250	500
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2

											Sample Location:	MW									
											Compliance Phase:	Background & Detection									
											Sample Dates:	12/7/2017	2/20/2018	6/15/2018	8/7/2018	8/7/2018	11/29/2018	4/12/2019	9/26/2019	5/6/2020	10/29/2020
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 10/2024)	RDL (Trace 04/2025)										Downgradient (S
Field Parameters																Field Dup					
pH	su	--	--	--	--	--	--	--	--	--	--	7.0	7.2	7.4	7.3	7.3	7.3	7.1	7.5	7.2	7.44
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	580	510	517	553	553	516	410	701	682	660
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	4.1	1.9	1.2	1.8	1.8	0.7	5	0.23	46.47	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	0.19	0.28	0.38	0.33	0.33	0.62	0.06	0.24	0.19	0.42
Temperature	°C	--	--	--	--	--	--	--	--	--	--	11.7	11.2	14.9	16.8	16.8	11.17	10.5	13.7	10.9	13
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	81.3	-115.5	5.10	-84.3	-84.3	0.3	-227	-219.3	-72.8	-325.9
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	44	8.8	413	394	369	383	377	410	380	350	403	480
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.3	2.6	74.3	55.7	63.2	74.6	76.9	88.7	78	82	94	86
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	1.5	18.3	21.5	22.7	21.9	21.8	19.1	17	23	17	11
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	200	< 1,000	< 1,000	< 1,000	< 1,000	<1,000	< 1,000	< 1,000	< 1,000	81	< 20
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--	7.0	7.2	7.4	7.3	--	7.3	7.1	7.5	7.6	7.4
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	60	120	48.4	< 2.0	< 2.0	17.7	25.9	49.6	12	37	24	52
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	50	67	324	330	412	326	324	362	360	380	373	400
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25	1.1	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	--	< 1.0	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55	**26.0**	< 1.0	< 1.0	1.0	1.1	< 1.0	3.8	9.4	**21.1**	7.9
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	2.5	128	78.1	66.5	77.9	83.3	92.7	83	93	109	120
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.16	< 0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 6.0	< 6.0	--	0.12	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	200	< 1,000	< 1,000	< 1,000	< 1,000	<1,000	< 1,000	< 1,000	< 1,000	81	< 20
Lead	ug/L	15	4	4	29	15	2	15	1	2.8	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	12	12	19	17	13	18	18	19	15	14	19	20
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	1.2	48.8	6.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	11.2	7.6
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	< 0.889	< 0.755	< 0.594	< 0.687	0.353	< 0.685	0.205	0.347	0.351	0.460
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0	< 1.55	< 1.46	< 1.42	< 1.49	< 1.03	< 1.38	0.539	0.676	0.351	1.380
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0	< 0.663	< 0.707	< 0.828	0.932	< 0.871	< 0.695	< 0.483	< 0.521	-0.162	0.92
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5	< 1.0	2.2	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.9	1.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	4.0	--	--	--	--	--	--	--	--	< 2.5	< 4
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25	--	--	--	--	--	--	--	--	--	< 1
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	250	500	--	--	--	--	--	--	--	--	--	< 200
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	< 50
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05	--	--	--	--	--	--	--	--	--	< 0.2
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	< 10
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2	--	--	--	--	--	--	--	--	--	< 10

										-17003									
										Assessment Monitoring									
										4/22/2021	10/22/2021	5/4/2022	10/20/2022	4/12/2023	10/2/2023	3/27/2024	10/23/2024	10/23/2024	4/23/2025
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	hallow 2017 Wells)									
Field Parameters																		Field Dup	
pH	su	--	--	--	--	--	--	--	--	7.02	7.22	7.01	7.02	6.72	6.4	6.53	6.31	6.31	6.33
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,570	880	1,460	1,200	2,440	2,450	2,560	3,010	3,010	2,059
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	1.25	0.02	0.02	2.37	0.02	7.03	4.67	4.67	6.69
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	5.72	0.04	0.04	0.02	0.11	0.18	0.19	0.33	0.33	0.21
Temperature	°C	--	--	--	--	--	--	--	--	11.5	13.4	9.8	13.5	12.2	15	9.7	15	15	11.7
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-280.1	-108.8	-130.3	-207.5	-109.5	-62.4	119.1	-17.5	-17.5	9.5
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	580	540	910	680	890	**1,400**	**1,700**	**2,800**	**3,300**	**3,100**
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	270	140	220	210	400	360	380	410	470	460
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	19	28	30	36	42	45	55	55	54	53
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	120	< 100	120	110	< 100	96	89	< 200	< 200	140
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.0	7.2	6.9	7.02	6.72	6.4	6.53	6.31	6.31	6.33
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	**520**	60	**390**	**320**	**1,000**	**1,100**	**1,500**	**1700**	**1700**	**1,800**
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	1,200	560	810	1,000	*2,700 R*	2,100	2,700	3100	2800	2,800
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	**48**	**20**	**29**	**43**	**10**	**37**	**130**	**210**	**230**	**180**
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	320	180	82	23	50	52	18	33	38	34
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	0.16	0.15	0.15
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25	0.081
Chromium	ug/L	100	100	100	11	100	3	11	1	< 0.25	< 0.25	< 0.25	0.25	< 1.2	< 1.2	0.24	0.52	0.48	0.45
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	0.71	2	38	43	52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	120	< 100	< 100	110	< 100	96	89	< 200	< 200	140
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	< 2.8	< 2.8	< 0.55	< 2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	**47**	25	34	36	**83**	**150**	**200**	**270**	**330**	**360**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	12	17	17	31	18	47	87	120^{J-}	170^{J+}	120
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.39	0.47	-0.49	0.59	0.174	0.256	0.22	0.05^{UJ}	0.36^{UJ}	0.181
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	< 0.91	1.1	< 1	0.59^{U}	0.366^{U}	0.775	0.808	1.28^{J+}	0.72^{UJ}	0.802
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.44	0.63	-0.18	-0.51^{U}	0.192^{U}	0.52	0.588	1.23^{J+}	0.36^{J-}	0.621
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	0.15	0.21	0.22	0.13
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	< 1.9	< 1.9	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	< 4	< 8	14	< 8	*< 4 UR*	37	90	42	50	78
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 0.25	< 0.25	0.57	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	57	160	**5,500**	**2,300**	**12,000**	**45,000**	**100,000**	**97,000**	**110,000**	**110,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	0.26	< 0.25	0.25	< 1.2	< 6.2	4.1	13	84	99	130
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2	0.82	0.93	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	< 1.2	< 1.2	< 1.2	1.4	28	< 6.2	3.4	19	22	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)
Field Parameters																		
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																		
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	50	8.8	8.8	8.8	8.8	8.8	44	44	88
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	2.6	1.3	1.3	26	1.3	1.3	2.6
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5	0.1	0.75	0.75	3.8	0.75	0.75	0.75	0.75
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	100	100	100	100	100	100	100
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	5	0.60	30	15	3	60	60	60	60
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	40	40	20	20	40	40
Appendix IV																		
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2	2.5	2.5	2.5	2.5	2.5	12	12	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	100	100	100	100	100	100	100
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	2.8
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	12	12	2.5
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.18	1.0	0.27	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.24	1.0	0.77	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.06	1.0	0.77	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	1.9
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	8.0	8.0	4.0	4	8
Michigan CCR																		
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	250	50	250	250	50
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 10/2024)	RDL (Trace 04/2025)	Sample Location:									MW
												Compliance Phase:	Background & Detection								
												Sample Dates:	12/6/2017	2/20/2018	6/15/2018	8/7/2018	11/30/2018	4/12/2019	4/12/2019	9/26/2019	5/5/2020	10/29/2020
																					Downgradient (S
Field Parameters																			Field Dup			
pH	su	--	--	--	--	--	--	--	--	--	--		7.2	7.3	7.4	7.3	7.3	7.5	7.5	7.6	7.53	6.92
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--		452	450	569	550	783	387	387	519	858	970
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--		3.4	<1.0	<1.0	1.4	0.41	6.9	6.9	0.75	7.04	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--		0.25	0.26	0.36	0.37	1.22	0.05	0.05	0.35	0.26	0.38
Temperature	°C	--	--	--	--	--	--	--	--	--	--		14.0	13.6	15.4	18.5	12.19	10.7	10.7	14.4	11.2	12.9
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--		28.7	-72.0	7.90	-51.2	41.5	-191.8	-191.8	-148.9	34.5	-130.8
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	44	8.8		367	429	525	425	601	440	450	570	542	830
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.3	1.3		53.7	48.1	73.1	68.9	116	67	71	66	126	150
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	1.5		21.3	21.3	21.4	21.2	18.7	19	20	16	17	5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200	20		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	89	120
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	--		7.2	7.3	7.4	7.3	7.3	7.5	--	7.6	7.7	6.9
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	60	60		< 2.0	< 2.0	8.3	< 2.0	166	7.8	7.5	3.1	104.0	220
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	48	40		228	238	410	320	500	330	340	300	490	620
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	0.25		< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	0.55		2.5	1.8	1.1	< 1.0	2.1	1.7	1.7	< 1.0	5.3	0.65
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	2.5		145	116	175	148	252	150	150	140	253	370
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	0.25		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.2	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	0.25		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	0.25		< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17	< 0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	0.52		< 15.0	< 15.0	< 15.0	< 15.0	< 6.0	< 6.0	< 6.0	--	0.16	< 0.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	200		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	89	120
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	0.55		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	12	12		< 10	< 10	< 10	< 10	14	< 8.0	8.0	< 10	15.2	13
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	0.2		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	1.2		9.9	5.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.8	< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0		< 0.945	< 0.723	< 0.441	< 0.519	< 0.766	0.182	< 0.203	0.271	0.191	0.280
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	1.0		< 1.75	< 1.44	< 1.25	< 1.46	< 1.56	0.721	0.638	< 0.546	0.191	1.040
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	1.0		< 0.804	< 0.719	< 0.810	1.03	< 0.790	0.539	< 0.623	< 0.546	-0.620	0.760
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	0.5		< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	0.38		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	4.0		--	--	--	--	--	--	--	--	< 2.5	< 4
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	0.25		--	--	--	--	--	--	--	--	--	< 1
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	250	250		--	--	--	--	--	--	--	--	--	**390**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	< 50
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	0.05		--	--	--	--	--	--	--	--	--	< 0.2
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	< 10
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	1.2		--	--	--	--	--	--	--	--	--	< 10

										-17004									
										Assessment Monitoring									
										4/22/2021	10/22/2021	5/3/2022	5/3/2022	10/20/2022	4/12/2023	10/3/2023	3/27/2024	10/23/2024	4/23/2025
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Shallow 2017 Wells)									
Field Parameters													Diss. Metals						
pH	su	--	--	--	--	--	--	--	--	6.98	6.8	6.9	-	6.66	6.77	6.63	6.76	6.71	6.78
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,450	1,340	1,000	-	2,020	2,830	2,210	1,960	2,060	1,499
Turbidity	NTU	--	--	--	--	--	--	--	--	0.27	5.15	131	-	0.02	9.58	0.02	5.0	4.3	3.2
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	1.01	0.04	0.3	-	0.37	0.2	0.11	0.07	0.09	0.25
Temperature	°C	--	--	--	--	--	--	--	--	11.7	14.6	10.5	-	14.1	12.9	14.7	8.9	15.5	10.5
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-41.8	-40.7	-52.1	-	-81.1	-34.7	5	123.6	-23.6	18
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	780	1,300	340	290	120	1,000	1,200	980	1,100	1,100
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	220	150	86	93	320	370	320	290	320	330
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	12	13	66	-	21	17	22	22	22	24
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	230	< 100	< 100	-	< 100	< 100	71	< 100	< 200	67
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.0	6.8	6.64	-	6.66	6.77	6.63	6.76	6.71	6.78
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	**450**	**290**	10	-	**1,200**	**1,100**	**1,000**	**1,000**	**900**	**1,000**
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	1,100	1,800	400	-	2,100	1,900	1,800	1,900	1700	1,800
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	< 0.25	1.2	< 0.25	< 0.25	< 1.2	< 1.2	0.11[J+]	< 0.25	0.1
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.9	6.9	**17**	< 0.55	**15**	**18**	6.6	2.7	9.7	3.7
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	450	190	370	190	85	120	110	51	82	74
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 0.25	0.49	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 0.25	< 0.25	7.8	< 0.25	0.36	< 1.2	< 1.2	< 0.25	0.36	0.28
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 0.52	< 0.52	2.6	< 0.52	3.4	< 2.6	< 2.6	0.32	0.47	0.28
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	230	< 100	< 100	-	< 100	< 100	71	< 100	< 200	67
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	< 0.55	19	< 0.55	< 0.55	< 2.8	< 2.8	< 2.8	0.13	0.13
Lithium	ug/L	40	170	350	440	40	48	48	10	2.8	9.9	8.9	< 2.5	**50**	**63**	**55**	**50**	**59**	**71**
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	14	16	7.5	< 1.2	< 1.2	26	46	32	36	29
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.73	-0.37	0.69	-	0.48	0.197	0.142	0.175	0.71	0.261
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	4.93	0	0.69	-	0.82[U]	0.917	0.693	0.836	1.11	0.593
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	4.2	-1.93	0.42	-	0.34[U]	0.72	0.551	0.66	0.4[U]	0.332
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 0.5	< 0.5	2.6	< 0.5	< 0.5	< 2.5	< 2.5	0.18	0.15	0.17
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 0.38	1.8	< 0.38	< 0.38	< 1.9	< 1.9	< 1.9	0.13	0.12
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	< 4	< 8	250	-	26	15	17	< 8	16	6
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.38	< 0.25	11	< 0.25	< 0.25	< 1.2	< 1.2	0.2	< 0.25	0.24
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	280	**1,100**	**29,000**	**2,000**	**17,000**	**6,400**	**8,700**	**2,900**	**9,900**	**3,000**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	0.39	0.28	7	< 0.25	8.1	< 6.2	< 6.2	0.76	1.1	1
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	< 1.2	26	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2	0.7	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	2.5	1.3	44	< 1.2	3.3	12	7.3	4.6	6.1	3.7

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 4/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)
Field Parameters																			
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	125	8.8	8.8	8.8	8.8	8.8	44	44	88	44
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	5	0.3	0.26	0.26	1.3	2.6	1.3	1.3	0.26	1.3
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5	0.1	0.75	0.75	3.8	0.75	0.75	0.75	0.75	1.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	100	100	100	100	100	100	100	200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	25	0.60	3	3	3	3	3	3	15	30
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20	20	40	20	20	20	40	50
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	5	2.5	2.5	2.5	2.5	2.5	12	12	2.5	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	100	100	100	100	100	100	100	200
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	2.5	12	2.5	12
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.269	1.0	0.34	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	0.995	1.0	0.42	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.726	1.0	0.42	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	12.5	4.0	4.0	8.0	8.0	8.0	4.0	4	8	4.0
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	250	250	50	250
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2

										Sample Location:											MW
										Compliance Phase:	Background & Detection Monitoring										
										Sample Dates:	12/6/2017	12/6/2017	2/20/2018	2/20/2018	6/15/2018	6/15/2018	8/7/2018	11/30/2018	4/12/2019	9/26/2019	9/26/2019
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 04/2025)											Downgradient (S
Field Parameters												Field Dup		Field Dup		Field Dup					Field Dup
pH	su	--	--	--	--	--	--	--	--	--	7.3	7.3	7.3	7.3	7.4	7.4	7.3	7.6	7.5	7.3	7.3
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	426	426	483	483	568	568	512	496	378	900	900
Turbidity	NTU	--	--	--	--	--	--	--	--	--	3.8	3.8	2.5	2.5	3.6	3.6	<1.0	1.69	6.4	0.99	0.99
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	0.22	0.22	0.23	0.23	0.38	0.38	0.35	1.23	0.07	0.31	0.31
Temperature	°C	--	--	--	--	--	--	--	--	--	14.9	14.9	13.9	13.9	16.7	16.7	20.8	12.22	10.8	14.4	14.4
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	28.9	28.9	-80.8	-80.8	9.2	9.2	-104.3	45.8	-116.6	-126	-126
Appendix III																					
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	8.8	191	208	238	228	377	353	342	350	400	490	520
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	0.26	51.9	54.0	54.2	53.1	71.2	71.1	68.1	68.1	69	120	120
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5	19.4	19.4	21.6	21.3	20.5	20.5	19.6	18.5	15	17	17
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	20	< 1,000	<1,000	< 1,000	<1,000	< 1,000	<1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--	7.3	--	7.3	--	7.4	--	7.3	7.6	7.5	7.3	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6	11.5	11.00	< 2.0	< 2.0	9.6	9.0	4.3	42.1	120	65	64
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	40	262	220	310	266	358	416	318	318	380	550	520
Appendix IV																					
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	--	--
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55	2.9	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5	168	167	123	128	161	149	179	131	84	340	350
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	3.8
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 15.0	< 6.0	< 6.0	--	--
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200	< 1,000	<1,000	< 1,000	<1,000	< 1,000	<1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000
Lead	ug/L	15	4	4	29	15	2	15	1	0.55	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--
Lithium	ug/L	40	170	350	440	40	48	48	10	12	10	12	11	11	< 10	< 10	13	11	< 8.0	14	14
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	--
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	< 0.863	1.56	< 0.804	0.910	< 0.692	< 0.610	0.440	< 0.592	0.270	0.497	0.481
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0	< 1.59	< 1.61	< 1.71	< 1.80	< 1.49	< 1.46	< 1.15	< 1.25	0.700	0.739	1.08
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0	< 0.722	< 0.649	< 0.904	< 0.945	< 0.796	< 0.853	< 0.741	< 0.656	< 0.479	< 0.564	0.596
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	--
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0	--	--	--	--	--	--	--	--	--	--	--
Michigan CCR																					
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25	--	--	--	--	--	--	--	--	--	--	--
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	250	--	--	--	--	--	--	--	--	--	--	--
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05	--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2	--	--	--	--	--	--	--	--	--	--	--

										MW-17005										
										Assessment Monitoring										
										5/5/2020	10/28/2020	4/22/2021	10/20/2021	5/3/2022	10/20/2022	4/13/2023	10/3/2023	3/27/2024	10/23/2024	4/22/2025
Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	Shallow 2017 Wells)										
Field Parameters																				
pH	su	--	--	--	--	--	--	--	--	6.79	7.44	7.21	7.09	6.85	7.15	7.11	6.9	7.12	6.53	7.26
Conductivity	µS/cm	--	--	--	--	--	--	--	--	1,911	599	453	480	1020	430	523	490	690	1800	465.1
Turbidity	NTU	--	--	--	--	--	--	--	--	1.8	7.59	3.77	1.91	0.91	0.02	4.88	0.02	0.02	0.02	9.75
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.26	0.13	0.43	0.05	0.04	0.23	0.17	0.1	0.19	0.02	0.09
Temperature	°C	--	--	--	--	--	--	--	--	11.9	14.6	6.5	18.8	10.9	15.4	12.0	15.6	11.1	14.3	11.3
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	57.2	-128.6	-88.6	-168	-77.5	-95.2	-82.5	0.9	43.9	-38.7	-32.3
Appendix III																				
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	**1,450**	430	88	140	350	130	170	130	220	1,300	230
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	343	76	53	61	77	57	64	62	76	270	78
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	20	22	23	22	100	22	23	20	21	27	53
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	22	120	< 100	< 100	< 100	< 100	< 100	81	< 100	< 200	140
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.1	7.44	7.21	7.09	6.7	7.15	7.11	6.9	7.12	6.53	7.26
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	**589**	6	15	< 3	< 3	< 3	< 3	< 3	110	730	86
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	1,390	340	250	200	360	270	290	290	430	1300	410
Appendix IV																				
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.31	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	0.11	0.16	0.21
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	456	170	77	82	240	73	67	64	95	180	99
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	0.06	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.20	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	0.3	0.4	0.3	< 0.25	0.48	< 0.25	< 1.2	< 1.2	< 0.25	0.35	0.24
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.36	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6	< 0.52	< 0.52	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	22	120	< 100	< 100	< 100	< 100	< 100	81	< 100	< 200	140
Lead	ug/L	15	4	4	29	15	2	15	1	< 1.0	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	< 0.55	0.13	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	**48**	13	4	5.1	3.9	6.2	7.1	< 12	7.3	36	10
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	0.29	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2	0.29	7.6
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.285	0.150	0.6	0.45	0.32	0.16[U]	0.111[U]	0.201[U]	0.232	0.07[U]	0.295
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	0.541	0.960	0.68	0.45	0.32	4.22	0.721[U]	0.563[U]	0.968	0.73[U]	1.37
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.256	0.810	0.08	-1.07	-0.06	4.06	0.61[U]	0.362[U]	0.735	0.66[U]	1.07
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	< 0.5	< 0.5	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 1.0	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	49	< 4	9	< 8	42	< 8	< 4	< 4	< 8	54	7
Michigan CCR																				
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	< 1	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	2.6	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	**1,700**	290	220	**17,000**	**1,200**	**1,400**	**1,000**	**3,700**	**40,000**	**3,500**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	< 50	< 0.25	< 0.25	0.26	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	< 10	< 1.2	< 1.2	< 1.2	< 1.2	7.2	< 6.2	< 1.2	8	< 1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Pace 5/2020)	RDL (Trace 10/2020)	RDL (Trace 6/2021)	RDL (Trace 10/2021)	RDL (Trace 5/2022)	RDL (Trace 10/2022)	RDL (Trace 4/2023)	RDL (Trace 10/2023)	RDL (Trace 03/2024)	RDL (Trace 10/2024)
Field Parameters																			
pH	su	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	°C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix III																			
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	100	8.8	8.8	8.8	8.8	8.8	44	44	8.8	44
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1	0.3	0.5	2.6	1.3	2.6	1.3	1.3	2.6	1.3
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	5	0.1	0.8	1.5	1.5	0.75	0.75	0.75	0.75	1.5
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	100	20.0	100	100	100	100	100	100	100	200
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	1	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	5	0.60	15.00	6	3	3	3	3	3	6.0
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	10.0	10.0	20.0	20	20	20	20	10	40	50
Appendix IV																			
Antimony	ug/L	6	6	6	130	6	1.4	6	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	1.0	2.5	2.5	2.5	2.5	2.5	12	12	2.5	2.5
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.20	0.25	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	1.0	0.3	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	1.0	0.5	0.52	0.52	0.52	0.52	2.6	2.6	0.52	0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	100	20.0	100	100	100	100	100	100	100	200
Lead	ug/L	15	4	4	29	15	2	15	1	1.0	0.6	0.55	0.55	0.55	0.55	2.8	2.8	0.55	0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	20.0	1.2	1.2	1.2	2.5	2.5	12	12	2.5	12
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.0	1.2	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.332	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.21	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.873	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	1.0	0.5	0.5	0.5	0.5	0.5	2.5	2.5	0.5	0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	1.0	0.4	0.38	0.38	0.38	0.38	1.9	1.9	0.38	0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	2.5	4.0	4.0	8.0	8.0	8.0	4.0	4	8	4.0
Michigan CCR																			
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	--	1.0	0.25	0.25	0.25	0.25	1.2	1.2	0.25	0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	--	200	7.5	7.5	50	50	250	250	50	250
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	--	50	0.25	0.25	0.25	1.2	6.2	6.2	1.2	1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	--	0.2	0.05	0.05	0.05	0.05	0.25	0.25	0.05	0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	--	10	1.2	1.2	1.2	1.2	6.2	6.2	1.2	1.2

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	RDL (Trace 04/2025)	Sample Location:										
											Compliance Phase:	Background & Detection									Assessment Mor
											Sample Dates:	12/6/2017	2/20/2018	6/15/2018	8/7/2018	11/30/2018	4/12/2019	9/26/2019	5/5/2020	10/30/2020	4/21/2021	6/15/2021
												Downgradient (Shallow 2017 Wells)										
Field Parameters																					No sample	
pH	su	--	--	--	--	--	--	--	--	--		7.7	7.3	7.5	7.5	7.7	7.5	7.8	7.03	7.02		7.00
Conductivity	µS/cm	--	--	--	--	--	--	--	--	--		794	11	717	693	686	732	975	1,029	1,320		1,100
Turbidity	NTU	--	--	--	--	--	--	--	--	--		3.0	1.3	1.3	<1.0	0.43	1.7	0.95	2.47	0.02		8.8
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	--		0.22	2.09	0.42	0.37	1.35	0.11	0.39	0.27	0.9		0.2
Temperature	°C	--	--	--	--	--	--	--	--	--		11.1	13.5	15.8	19.6	11.93	12	13.2	12.1	12.1		13.9
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	--		60.7	10.8	16.4	-60.7	20.2	-156.7	-209	30.3	-79.1		-140.2
Appendix III																						
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	8.8		669	594	653	765	630	650	600	745	980		800
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	1.3		106	95.0	97.5	90.4	99.8	150	130	153	220		170
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	1.5		19.0	20.3	20.9	21.5	20.4	19	18	25	19		36
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	200		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	22	130		120
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	--		7.7	7.3	7.5	7.5	7.7	7.5	7.8	7.4	7.0		7.0
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	6		129	93.1	69.8	46.2	102	**290**	220	182	**340**		240
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	40		474	472	478	438	432	800	680	631	940		690
Appendix IV																						
Antimony	ug/L	6	6	6	130	6	1.4	6	1	0.25		< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	--	< 1.0	< 0.25		< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	0.55		4.9	2.4	4.6	< 1.0	6.6	5.9	4.3	5.7	0.7		< 0.55
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	2.5		83.3	79.0	70.3	73.0	68.6	120	98	129	190		140
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	0.25		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 0.20	< 0.25		< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	0.25		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.25		< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	0.25		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	0.2	< 0.25		< 0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	0.52		< 15.0	< 15.0	< 15.0	< 15.0	< 6.0	< 6.0	--	0.17	< 0.52		< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	200		< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	22	130		120
Lead	ug/L	15	4	4	29	15	2	15	1	0.55		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 0.55		< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	12		38	37	31	36	32	35	28	38	**57**		14
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	0.2		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	--	< 0.20	< 0.2		< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	1.2		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.6	< 1.2		< 1.2
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0		< 0.930	< 0.766	< 0.862	< 0.582	1.13	< 0.225	0.497	0.754	0.440		0.86
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	1.0		< 0.833	< 0.716	< 0.888	< 0.757	1.06	< 0.556	< 0.437	0.955	1.180		**2.66**
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	1.0		< 1.76	< 1.48	< 1.75	< 1.34	2.19	< 0.556	0.819	0.201	0.740		1.8
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	0.5		< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5		< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	0.38		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	--	< 1.0	< 0.38		< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	4.0		--	--	--	--	--	--	--	< 2.5	< 4		11
Michigan CCR																						
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	0.25		--	--	--	--	--	--	--	--	< 1		< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	250		--	--	--	--	--	--	--	--	**2,100**		**2,100**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	1.2		--	--	--	--	--	--	--	--	< 50		< 0.25
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	0.05		--	--	--	--	--	--	--	--	< 0.2		< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	1.2		--	--	--	--	--	--	--	--	< 10		< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	1.2		--	--	--	--	--	--	--	--	< 10		8.8

Constituent	Unit	EPA MCL	MI Residential*	MI Non-Residential*	MI GSI^	Federal GPS	Site-Specific Background Level Upper Tolerance Limit (UTL) (ug/L)	State Groundwater Protection Standards for Site (ug/L)	RDL (Most Common from Previous Data	itoring 10/20/2021	5/2/2022	10/20/2022	4/13/2023	10/3/2023	3/27/2024	10/23/2024	4/24/2025
Field Parameters																	
pH	su	--	--	--	--	--	--	--	--	7.41	7.21	7.00	7.25	6.9	7.26	7.14	7.29
Conductivity	µS/cm	--	--	--	--	--	--	--	--	970	770	490	615	620	840	890	740
Turbidity	NTU	--	--	--	--	--	--	--	--	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Dissolved Oxygen	mg/L	--	--	--	--	--	--	--	--	0.09	0.78	0.89	0.13	0.09	0.33	0.85	0.1
Temperature	°C	--	--	--	--	--	--	--	--	12.6	12.2	12.7	13.0	14.3	9.0	13.6	12.8
Oxidation Reduction Potential	mV	--	--	--	--	--	--	--	--	-90	-106.1	-80.9	-129.5	10.2	4.8	-32.5	-42.8
Appendix III																	
Boron	ug/L	NC	**500**	**500**	7,200	5,400	5,400	5,400	125	740	820	710	680	640	550	690	540
Calcium	mg/L	NC	NC	NC	500	260	260	500	1	140	98	80	79	75	100	130	96
Chloride	mg/L	**250****	**250**	**250**	**500**	**250**	**2500**	**2,500**	5	76	45	47	40	38	43	48	52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,400	2,000	1000	< 100	190	110	170	140	110	< 200	180
pH, Field	SU	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 8.5**	**6.5 - 9.0**	**--**	**--**	**--**	0.1	7.4	7.2	7.00	7.25	6.9	7.26	7.14	7.29
Sulfate	mg/L	**250****	**250**	**250**	500	**250**	200	250	2	97	50	19	12	5.2	96	97	93
Total Dissolved Solids	mg/L	**500****	**500**	**500**	**500**	**500**	**4,800**	**4,800**	10	570	500	390	350	360	510	560	490
Appendix IV																	
Antimony	ug/L	6	6	6	130	6	1.4	6	1	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Arsenic	ug/L	**10**	**10**	**10**	**10**	**10**	**18**	**18**	1	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	0.97	1.9	4.2
Barium	ug/L	2,000	2,000	2,000	**670**	2,000	**270**	**690**	1	110	88	72	72	65	76	100	75
Beryllium	ug/L	4	4	4	6.7	4	1.0	4.0	1.0	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Cadmium	ug/L	5	5	5	3.0	5	0.2	3.1	0.2	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	< 0.25	< 0.25
Chromium	ug/L	100	100	100	11	100	3	11	1	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	< 0.25	0.22	< 0.25
Cobalt	ug/L	6	40	100	100	6	1.2	6	15	< 0.52	< 0.52	< 0.52	< 2.6	< 2.6	< 0.52	< 0.52	< 0.52
Fluoride	ug/L	4,000	NC	NC	NC	4,000	1,000	2,000	1000	< 100	190	110	170	140	110	< 200	180
Lead	ug/L	15	4	4	29	15	2	15	1	< 0.55	< 0.55	< 0.55	< 2.8	< 2.8	< 0.55	< 0.55	< 0.55
Lithium	ug/L	40	170	350	440	40	48	48	10	22	32	26	12	26	25	29	28
Mercury	ug/L	2	2	2	0.20#	2	0.2	2	0.2	< 0.2	< 0.2	< 0.2	< 0.2	**1.2**	< 0.2	< 0.2	< 0.2
Molybdenum	ug/L	100	**73**	210	3,200	100	9.7	100	5	< 1.2	1.2	< 1.2	< 6.2	< 6.2	6.3	12	53
Radium-226	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.35	0.21	0.48	0.0903[U]	0.202[U]	0.187	0.97	0.0124
Radium-226/228	pCi/L	**5**	NC	NC	NC	**5**	3.74	5	N/A	0.35	0.21	2.11	0.814	0.999	0.964	1.76	0.741
Radium-228	pCi/L	5	NC	NC	NC	--	--	--	N/A	0.09	-0.17	1.63	0.724	0.797	0.777	0.79	0.729
Selenium	ug/L	50	50	50	**5**	50	**3.3**	**5**	1	< 0.5	< 0.5	< 0.5	< 2.5	< 2.5	< 0.5	0.14	< 0.5
Thallium	ug/L	2	2	2	3.7	2	0.2	2.0	2.0	< 0.38	< 0.38	< 0.38	< 1.9	< 1.9	< 0.38	< 0.38	< 0.38
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	2.5	< 8	< 8	< 8	< 4	< 4	< 8	< 4.0	< 4.0
Michigan CCR																	
Copper	ug/L	--	--	--	--	--	--	13 or UTL	--	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	1.2	< 0.25	< 0.25
Iron	ug/L	--	--	--	--	--	--	300 or UTL	--	**1,900**	**2,900**	**1,600**	**1,700**	**1,500**	**1,000**	**940**	**710**
Nickel	ug/L	--	--	--	--	--	--	75 or UTL	--	0.37	0.27	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2	< 1.2
Silver	ug/L	--	--	--	--	--	--	0.2 or UTL	--	< 0.05	< 0.05	< 0.05	< 0.25	< 0.25	< 0.05	< 0.05	< 0.05
Vanadium	ug/L	--	--	--	--	--	--	27 or UTL	--	< 1.2	< 1.2	< 1.2	< 6.2	< 6.2	< 1.2	< 1.2	< 1.2
Zinc	ug/L	--	--	--	--	--	--	170 or UTL	--	< 1.2	< 1.2	< 1.2	7	6.2	< 1.2	3.7	< 1.2

Notes:
ug/L - micrograms per liter. mg/L - milligrams per liter.
SU - standard units; pH is a field parameter. pCi/L - picocuries per liter.
MCL - Maximum Contaminant Level, EPA Drinking Water Standards and Health Advisories, April, 2012. NC - no criteria.
* - Michigan Part 201 Generic Drinking Water Cleanup Criteria, December 30, 2013.
** - Secondary Maximum Contaminant Level (SMCL), EPA Secondary Drinking Water Regulations (SDWR) April, 2012.
^ - Michigan Part 201 Groundwater Surface Water Interface (GSI) Criteria. Hardness-dependent criteria calculated using default hardness of 150 mg CaCO3/L per MDEQ RRD Op Memo 5, Sept. 30, 2004. Generic GSI criterion for calcium, chloride, and sulfate is the total dissolved solids criterion. Chromium GSI criterion based on hexavalent chromium
per footnote {H}.
- If detected above 0.20 ug/L, further evaluation of low-level mercury may be necessary to evaluate the GSI pathway per Michigan Part 201 and MDEQ policy and procedure 09-014 dated June 20, 2012.
BOLD value indicates an exceedance of one or more of the listed criteria.
RED value indicates an exceedance of the MCL.
-- - not analyzed.
All metals were analyzed as total unless otherwise specified.

Appendix C

Lab Reports

Trace Analytical Laboratories, Inc.
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TRACE
ANALYTICAL LABORATORIES, INC.

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May 05, 2025

Ms. Lara Zawaideh
HDR Michigan Inc.
1000 Oakbrook Dr., Suite 200
Ann Arbor, MI 48104

RE: Trace Project 25D1770
Client Project BC Cobb

Dear Ms. Zawaideh:

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

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

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

Sincerely,

Jon Mink
Senior Project Manager
Enclosures

PJLA Testing Accreditation# 1031

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

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SAMPLE SUMMARY

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
25D1770-01	MW-15023	Ground Water	AB/FDR	04/22/25 09:40	04/23/25 08:00
25D1770-02	MW-15020	Ground Water	AB/FDR	04/22/25 11:20	04/23/25 08:00
25D1770-03	MW-17005	Ground Water	AB/FDR	04/22/25 12:50	04/23/25 08:00
25D1770-04	MW-15010	Ground Water	AB/FDR	04/22/25 11:48	04/23/25 08:00
25D1770-05	MWT-15010	Ground Water	AB/FDR	04/22/25 11:48	04/23/25 08:00
25D1770-06	MW-17004	Ground Water	AB/FDR	04/23/25 10:15	04/25/25 08:09
25D1770-07	MW-15019	Ground Water	AB/FDR	04/23/25 11:40	04/25/25 08:09
25D1770-08	MW-17003	Ground Water	AB/FDR	04/23/25 12:45	04/25/25 08:09
25D1770-09	MW-15018	Ground Water	AB/FDR	04/23/25 14:00	04/25/25 08:09
25D1770-10	MW-15017	Ground Water	AB/FDR	04/23/25 15:45	04/25/25 08:09
25D1770-11	MW-17002	Ground Water	AB/FDR	04/23/25 17:05	04/25/25 08:09
25D1770-12	MW-15005	Ground Water	AB/FDR	04/23/25 09:52	04/25/25 08:09
25D1770-13	MWT-15005	Ground Water	AB/FDR	04/23/25 09:52	04/25/25 08:09
25D1770-14	MW-15006	Ground Water	AB/FDR	04/23/25 11:28	04/25/25 08:09
25D1770-15	MW-15008	Ground Water	AB/FDR	04/23/25 12:34	04/25/25 08:09
25D1770-16	MW-15007	Ground Water	AB/FDR	04/23/25 13:48	04/25/25 08:09
25D1770-17	MW-15009	Ground Water	AB/FDR	04/23/25 14:58	04/25/25 08:09
25D1770-18	MW-15022	Ground Water	AB/FDR	04/23/25 16:02	04/25/25 08:09
25D1770-19	MW-15021	Ground Water	AB/FDR	04/23/25 17:00	04/25/25 08:09
25D1770-20	MW-17001R	Ground Water	AB/FDR	04/24/25 10:05	04/25/25 08:09
25D1770-21	MW-15016R	Ground Water	AB/FDR	04/24/25 11:00	04/25/25 08:09
25D1770-22	MW-15015R	Ground Water	AB/FDR	04/24/25 12:50	04/25/25 08:09
25D1770-23	MW-15014R	Ground Water	AB/FDR	04/24/25 14:05	04/25/25 08:09
25D1770-24	MW-15013	Ground Water	AB/FDR	04/24/25 08:50	04/25/25 08:09
25D1770-25	MW-15004	Ground Water	AB/FDR	04/24/25 10:00	04/25/25 08:09
25D1770-26	MW-15003	Ground Water	AB/FDR	04/24/25 11:10	04/25/25 08:09
25D1770-27	MW-15002	Ground Water	AB/FDR	04/24/25 12:10	04/25/25 08:09
25D1770-28	MW-17006	Ground Water	AB/FDR	04/24/25 13:50	04/25/25 08:09

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-01 | Date Collected: 04/22/25 09:40 | Matrix: Ground Water
Sample ID: MW-15023 | Date Received: 04/23/25 08:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T165995										
Mercury	<0.00016	mg/L	0.00020	1	04/25/25	cma	04/28/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**3.1**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**280**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**17**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.067**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.027**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.27**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00030**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	<0.00010	mg/L	0.00052	1	04/29/25	ejb	05/02/25	drm		0.00010
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.016**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012
WET CHEMISTRY										

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-01 | Date Collected: 04/22/25 09:40 | Matrix: Ground Water
Sample ID: MW-15023 | Date Received: 04/23/25 08:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166090										
Fluoride	**0.091**	**mg/L**	**0.020**	**1**	**04/28/25**	**ljs**	**04/28/25**	**ljs**	**N**	**0.011**
Chloride	**160**	**mg/L**	**1.5**	**10**	**04/23/25**	**ljs**	**04/24/25**	**ljs**		**1.2**
Sulfate as SO4	**560**	**mg/L**	**30**	**50**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**11**
Analysis Method: SM 2540 C-20										
Batch: T165871										
Total Dissolved Solids	**1400**	**mg/L**	**40**	**4**	**04/23/25**	**cdj**	**04/23/25**	**cdj**		
Analysis Method: SM 2540 D-20										
Batch: T165867										
Total Suspended Solids	**44**	**mg/L**	**4.0**	**1**	**04/23/25**	**cdj**	**04/23/25**	**cdj**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-02 | Date Collected: 04/22/25 11:20 | Matrix: Ground Water
Sample ID: MW-15020 | Date Received: 04/23/25 08:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T165995										
Mercury	<0.00016	mg/L	0.00020	1	04/25/25	cma	04/28/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.40**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**85**	**mg/L**	**0.26**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.037**
Iron	**13**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.011**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.00023**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Barium	**0.15**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00026**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00020**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	**0.00029**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	<0.00025	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00025
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012
WET CHEMISTRY										

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-02 | Date Collected: 04/22/25 11:20 | Matrix: Ground Water
Sample ID: MW-15020 | Date Received: 04/23/25 08:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166090										
Fluoride	**0.15**	**mg/L**	**0.020**	**1**	**04/28/25**	**ljs**	**04/28/25**	**ljs**	**N**	**0.011**
Chloride	**57**	**mg/L**	**1.5**	**10**	**04/23/25**	**ljs**	**04/24/25**	**ljs**		**1.2**
Sulfate as SO4	<0.22	mg/L	1.0	1	04/28/25	ljs	04/28/25	ljs		0.22
Analysis Method: SM 2540 C-20										
Batch: T165871										
Total Dissolved Solids	**430**	**mg/L**	**40**	**4**	**04/23/25**	**cdj**	**04/23/25**	**cdj**		
Analysis Method: SM 2540 D-20										
Batch: T165867										
Total Suspended Solids	**34**	**mg/L**	**4.0**	**1**	**04/23/25**	**cdj**	**04/23/25**	**cdj**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-03 | Date Collected: 04/22/25 12:50 | Matrix: Ground Water
Sample ID: MW-17005 | Date Received: 04/23/25 08:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T165995										
Mercury	<0.00016	mg/L	0.00020	1	04/25/25	cma	04/28/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.23**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**78**	**mg/L**	**0.26**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.037**
Iron	**3.5**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.010**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.00021**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Barium	**0.099**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00024**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00020**
Cobalt	<0.00010	mg/L	0.00052	1	04/29/25	ejb	05/02/25	drm		0.00010
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.0076**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012
WET CHEMISTRY										

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-03 | Date Collected: 04/22/25 12:50 | Matrix: Ground Water
Sample ID: MW-17005 | Date Received: 04/23/25 08:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166090										
Fluoride	**0.14**	**mg/L**	**0.020**	**1**	**04/28/25**	**ljs**	**04/28/25**	**ljs**	**N**	**0.011**
Chloride	**53**	**mg/L**	**1.5**	**10**	**04/23/25**	**ljs**	**04/24/25**	**ljs**		**1.2**
Sulfate as SO4	**86**	**mg/L**	**6.0**	**10**	**04/23/25**	**ljs**	**04/24/25**	**ljs**		**2.2**
Analysis Method: SM 2540 C-20										
Batch: T165871										
Total Dissolved Solids	**410**	**mg/L**	**40**	**4**	**04/23/25**	**cdj**	**04/23/25**	**cdj**		
Analysis Method: SM 2540 D-20										
Batch: T165867										
Total Suspended Solids	**7.0**	**mg/L**	**4.0**	**1**	**04/23/25**	**cdj**	**04/23/25**	**cdj**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-04 | Date Collected: 04/22/25 11:48 | Matrix: Ground Water
Sample ID: MW-15010 | Date Received: 04/23/25 08:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T165995										
Mercury	<0.00016	mg/L	0.00020	1	04/25/25	cma	04/28/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**1.0**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**180**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**0.81**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.046**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.00015**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Barium	**0.085**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00024**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00020**
Cobalt	<0.00010	mg/L	0.00052	1	04/29/25	ejb	05/02/25	drm		0.00010
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.0014**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-04 | Date Collected: 04/22/25 11:48 | Matrix: Ground Water
Sample ID: MW-15010 | Date Received: 04/23/25 08:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T165878										
Fluoride	**0.31**	**mg/L**	**0.20**	**10**	**04/23/25**	**ljs**	**04/24/25**	**ljs**	**N**	**0.11**
Chloride	**79**	**mg/L**	**1.5**	**10**	**04/23/25**	**ljs**	**04/24/25**	**ljs**		**1.2**
Sulfate as SO4	**42**	**mg/L**	**6.0**	**10**	**04/23/25**	**ljs**	**04/24/25**	**ljs**		**2.2**
Analysis Method: SM 2540 C-20										
Batch: T165871										
Total Dissolved Solids	**790**	**mg/L**	**40**	**4**	**04/23/25**	**cdj**	**04/23/25**	**cdj**		
Analysis Method: SM 2540 D-20										
Batch: T165867										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/23/25	cdj	04/23/25	cdj		4.0

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-05 | Date Collected: 04/22/25 11:48 | Matrix: Ground Water
Sample ID: MWT-15010 | Date Received: 04/23/25 08:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T165995										
Mercury	<0.00016	mg/L	0.00020	1	04/25/25	cma	04/28/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**1.0**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**180**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**0.90**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.044**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.00015**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Barium	**0.087**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00021**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00020**
Cobalt	<0.00010	mg/L	0.00052	1	04/29/25	ejb	05/02/25	drm		0.00010
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.0013**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-05 | Date Collected: 04/22/25 11:48 | Matrix: Ground Water
Sample ID: MWT-15010 | Date Received: 04/23/25 08:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T165892										
Fluoride	**0.30**	**mg/L**	**0.20**	**10**	**04/23/25**	**ljs**	**04/24/25**	**ljs**	**N**	**0.11**
Chloride	**79**	**mg/L**	**1.5**	**10**	**04/23/25**	**ljs**	**04/24/25**	**ljs**		**1.2**
Sulfate as SO4	**42**	**mg/L**	**6.0**	**10**	**04/23/25**	**ljs**	**04/24/25**	**ljs**		**2.2**
Analysis Method: SM 2540 C-20										
Batch: T165873										
Total Dissolved Solids	**760**	**mg/L**	**40**	**4**	**04/23/25**	**cdj**	**04/23/25**	**cdj**		
Analysis Method: SM 2540 D-20										
Batch: T165867										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/23/25	cdj	04/23/25	cdj		4.0

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-06 | Date Collected: 04/23/25 10:15 | Matrix: Ground Water
Sample ID: MW-17004 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**1.1**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**330**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**3.0**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.071**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	**0.00010**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Arsenic	**0.0037**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.074**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00028**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00028**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	**0.00024**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00020**
Lead	**0.00013**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Molybdenum	**0.029**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	**0.0010**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00065**
Selenium	**0.00017**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	**0.00012**	**mg/L**	**0.00038**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.000075**
Vanadium	**0.0012**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00062**
Zinc	**0.0037**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.0012**
WET CHEMISTRY										

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-06 | Date Collected: 04/23/25 10:15 | Matrix: Ground Water
Sample ID: MW-17004 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166090										
Fluoride	**0.067**	**mg/L**	**0.020**	**1**	**04/28/25**	**ljs**	**04/28/25**	**ljs**	**N**	**0.011**
Chloride	**24**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**1000**	**mg/L**	**60**	**100**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**22**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**1800**	**mg/L**	**40**	**4**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**6.0**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-07 | Date Collected: 04/23/25 11:40 | Matrix: Ground Water
Sample ID: MW-15019 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.48**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**110**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**20**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.012**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.00046**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Barium	**0.28**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00051**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00059**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Copper	**0.010**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Lead	**0.00034**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Molybdenum	<0.00025	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00025
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	**0.0018**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.0012**
WET CHEMISTRY										

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-07 | Date Collected: 04/23/25 11:40 | Matrix: Ground Water
Sample ID: MW-15019 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166090										
Fluoride	**0.10**	**mg/L**	**0.020**	**1**	**04/28/25**	**ljs**	**04/28/25**	**ljs**	**N**	**0.011**
Chloride	**76**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**0.35**	**mg/L**	**1.0**	**1**	**04/28/25**	**ljs**	**04/28/25**	**ljs**	**J**	**0.22**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**540**	**mg/L**	**40**	**4**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**58**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-08 | Date Collected: 04/23/25 12:45 | Matrix: Ground Water
Sample ID: MW-17003 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**3.1**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**460**	**mg/L**	**2.6**	**10**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.37**
Iron	**110**	**mg/L**	**0.50**	**10**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.075**
Lithium	**0.36**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.18**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.034**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	**0.00015**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.000052**
Cadmium	**0.000081**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.000075**
Chromium	**0.00045**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.052**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00050	mg/L	0.0028	5	04/29/25	ejb	05/02/25	drm	DL02	0.00050
Molybdenum	**0.12**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	**0.13**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00065**
Selenium	**0.00013**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.00038	mg/L	0.0019	5	04/29/25	ejb	05/02/25	drm	DL02	0.00038
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	**0.046**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.0012**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-08 | Date Collected: 04/23/25 12:45 | Matrix: Ground Water
Sample ID: MW-17003 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.14**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J, N**	**0.11**
Chloride	**53**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**1800**	**mg/L**	**120**	**200**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**44**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**2800**	**mg/L**	**67**	**6.666667**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**78**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-09 | Date Collected: 04/23/25 14:00 | Matrix: Ground Water
Sample ID: MW-15018 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.22**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**80**	**mg/L**	**0.26**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.037**
Iron	**9.6**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.020**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.00057**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.14**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00051**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00016**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	**0.00047**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Lead	**0.00069**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Molybdenum	<0.00025	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00025
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.0013**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00062**
Zinc	**0.0015**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.0012**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-09 | Date Collected: 04/23/25 14:00 | Matrix: Ground Water
Sample ID: MW-15018 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.18**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J, N**	**0.11**
Chloride	**40**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**0.57**	**mg/L**	**1.0**	**1**	**04/28/25**	**ljs**	**04/29/25**	**ljs**	**J**	**0.22**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**360**	**mg/L**	**50**	**5**	**04/28/25**	**sm**	**04/28/25**	**sm**	**RPD**	
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**12**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-10 | Date Collected: 04/23/25 15:45 | Matrix: Ground Water
Sample ID: MW-15017 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.074**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**270**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**66**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.0055**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.0021**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**1.0**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.0010**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00063**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	<0.00025	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00025
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.0012**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00062**
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012
WET CHEMISTRY										

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-10 | Date Collected: 04/23/25 15:45 | Matrix: Ground Water
Sample ID: MW-15017 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166090										
Fluoride	**0.044**	**mg/L**	**0.020**	**1**	**04/28/25**	**ljs**	**04/29/25**	**ljs**	**N**	**0.011**
Chloride	**360**	**mg/L**	**3.8**	**25**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**3.0**
Sulfate as SO4	**0.36**	**mg/L**	**1.0**	**1**	**04/28/25**	**ljs**	**04/29/25**	**ljs**	**J**	**0.22**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**1300**	**mg/L**	**67**	**6.666667**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**180**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-11 | Date Collected: 04/23/25 17:05 | Matrix: Ground Water
Sample ID: MW-17002 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**17**	**mg/L**	**0.044**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.026**
Calcium	**470**	**mg/L**	**2.6**	**10**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.37**
Iron	**26**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.24**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.090**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.054**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	**0.00026**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.000075**
Chromium	**0.00029**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	<0.00010	mg/L	0.00052	1	04/29/25	ejb	05/02/25	drm		0.00010
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.77**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.00069**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00062**
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-11 | Date Collected: 04/23/25 17:05 | Matrix: Ground Water
Sample ID: MW-17002 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.28**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**N**	**0.11**
Chloride	**10**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**680**	**mg/L**	**30**	**50**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**11**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**1900**	**mg/L**	**67**	**6.666667**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**72**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-12 | Date Collected: 04/23/25 09:52 | Matrix: Ground Water
Sample ID: MW-15005 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.11**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**80**	**mg/L**	**0.26**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.037**
Iron	**3.6**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.0025**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	**0.00023**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Arsenic	**0.00096**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.14**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	**0.00017**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.000075**
Chromium	**0.00024**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00020**
Cobalt	**0.00021**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	**0.0014**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Lead	**0.00044**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Molybdenum	**0.00082**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	**0.00032**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.00092**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00062**
Zinc	**0.038**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.0012**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-12 | Date Collected: 04/23/25 09:52 | Matrix: Ground Water
Sample ID: MW-15005 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.16**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J, N**	**0.11**
Chloride	**10**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**2.7**	**mg/L**	**6.0**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J**	**2.2**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**270**	**mg/L**	**40**	**4**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**12**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-13 | Date Collected: 04/23/25 09:52 | Matrix: Ground Water
Sample ID: MWT-15005 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.091**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**80**	**mg/L**	**0.26**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.037**
Iron	**3.7**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.0024**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**J, N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	**0.00026**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Arsenic	**0.0011**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.14**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	**0.00017**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.000075**
Chromium	**0.00050**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00022**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	**0.0014**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Lead	**0.00057**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Molybdenum	**0.00080**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00025**
Nickel	**0.00068**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00065**
Selenium	**0.00035**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.0010**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00062**
Zinc	**0.039**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.0012**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-13 | Date Collected: 04/23/25 09:52 | Matrix: Ground Water
Sample ID: MWT-15005 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.16**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J, N**	**0.11**
Chloride	**9.8**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**2.5**	**mg/L**	**6.0**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J**	**2.2**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**280**	**mg/L**	**40**	**4**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**5.0**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-14 | Date Collected: 04/23/25 11:28 | Matrix: Ground Water
Sample ID: MW-15006 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.037**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**76**	**mg/L**	**0.26**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.037**
Iron	**3.1**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	<0.0019	mg/L	0.0025	1	04/29/25	ejb	05/02/25	jlh	N	0.0019
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	**0.00052**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Arsenic	**0.0043**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.018**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	**0.000078**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.000075**
Chromium	**0.00036**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.0014**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Copper	**0.0015**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.0054**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	**0.00091**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00065**
Selenium	**0.0015**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.00077**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00062**
Zinc	**0.0016**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.0012**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-14 | Date Collected: 04/23/25 11:28 | Matrix: Ground Water
Sample ID: MW-15006 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.23**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**N**	**0.11**
Chloride	**4.7**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**7.5**	**mg/L**	**6.0**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**2.2**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**300**	**mg/L**	**40**	**4**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**5.0**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-15 | Date Collected: 04/23/25 12:34 | Matrix: Ground Water
Sample ID: MW-15008 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.18**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**89**	**mg/L**	**0.26**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.037**
Iron	**1.2**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.013**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	**0.00015**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Arsenic	**0.0027**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.052**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Cobalt	<0.00010	mg/L	0.00052	1	04/29/25	ejb	05/02/25	drm		0.00010
Copper	**0.00069**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.0014**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	**0.00010**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-15 | Date Collected: 04/23/25 12:34 | Matrix: Ground Water
Sample ID: MW-15008 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.20**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**N**	**0.11**
Chloride	**12**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**2.8**	**mg/L**	**6.0**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J**	**2.2**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**350**	**mg/L**	**40**	**4**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/28/25	sm	04/28/25	sm		4.0

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-16 | Date Collected: 04/23/25 13:48 | Matrix: Ground Water
Sample ID: MW-15007 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.081**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**79**	**mg/L**	**0.26**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.037**
Iron	**5.5**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	<0.0019	mg/L	0.0025	1	04/29/25	ejb	05/02/25	jlh	N	0.0019
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	**0.00031**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Arsenic	**0.0044**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.032**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00031**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00073**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Copper	**0.0011**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Lead	**0.00011**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Molybdenum	**0.0089**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	**0.0011**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00065**
Selenium	**0.00099**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.0015**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00062**
Zinc	**0.0024**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.0012**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-16 | Date Collected: 04/23/25 13:48 | Matrix: Ground Water
Sample ID: MW-15007 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.32**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**N**	**0.11**
Chloride	**100**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**9.5**	**mg/L**	**6.0**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**2.2**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**440**	**mg/L**	**40**	**4**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**5.0**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-17 | Date Collected: 04/23/25 14:58 | Matrix: Ground Water
Sample ID: MW-15009 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.62**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**97**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**1.1**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.027**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.0084**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.060**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Cobalt	<0.00010	mg/L	0.00052	1	04/29/25	ejb	05/02/25	drm		0.00010
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.016**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-17 | Date Collected: 04/23/25 14:58 | Matrix: Ground Water
Sample ID: MW-15009 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.12**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J, N**	**0.11**
Chloride	**48**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**170**	**mg/L**	**6.0**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**2.2**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**480**	**mg/L**	**40**	**4**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/28/25	sm	04/28/25	sm		4.0

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-18 | Date Collected: 04/23/25 16:02 | Matrix: Ground Water
Sample ID: MW-15022 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**1.2**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**150**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**0.11**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.053**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.00021**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Barium	**0.19**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00024**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00020**
Cobalt	**0.00025**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.00031**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.0017**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00062**
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-18 | Date Collected: 04/23/25 16:02 | Matrix: Ground Water
Sample ID: MW-15022 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.13**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J, N**	**0.11**
Chloride	**89**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**3.0**	**mg/L**	**6.0**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J**	**2.2**
Analysis Method: SM 2540 C-20										
Batch: T166103										
Total Dissolved Solids	**620**	**mg/L**	**40**	**4**	**04/28/25**	**sm**	**04/28/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/28/25	sm	04/28/25	sm		4.0

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-19 | Date Collected: 04/23/25 17:00 | Matrix: Ground Water
Sample ID: MW-15021 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**0.26**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**130**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**24**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.0030**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.0014**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.38**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00096**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00089**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Copper	**0.031**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	<0.00025	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00025
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	**0.00012**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.0014**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00062**
Zinc	**0.0035**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.0012**
WET CHEMISTRY										

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-19 | Date Collected: 04/23/25 17:00 | Matrix: Ground Water
Sample ID: MW-15021 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166090										
Fluoride	**0.068**	**mg/L**	**0.020**	**1**	**04/28/25**	**ljs**	**04/29/25**	**ljs**	**N**	**0.011**
Chloride	**310**	**mg/L**	**3.8**	**25**	**04/25/25**	**ljs**	**04/28/25**	**ljs**		**3.0**
Sulfate as SO4	<0.22	mg/L	1.0	1	04/28/25	ljs	04/29/25	ljs		0.22
Analysis Method: SM 2540 C-20										
Batch: T166159										
Total Dissolved Solids	**1000**	**mg/L**	**67**	**6.666667**	**04/29/25**	**sm**	**04/29/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**58**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-20 | Date Collected: 04/24/25 10:05 | Matrix: Ground Water
Sample ID: MW-17001R | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166049										
Boron	**2.4**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**470**	**mg/L**	**2.6**	**10**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.37**
Iron	**1.2**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.17**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166049										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.00030**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Barium	**0.30**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Cobalt	**0.00022**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	<0.00025	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00025
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-20 | Date Collected: 04/24/25 10:05 | Matrix: Ground Water
Sample ID: MW-17001R | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.12**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J, N**	**0.11**
Chloride	**27**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**490**	**mg/L**	**30**	**50**	**04/25/25**	**ljs**	**04/28/25**	**ljs**		**11**
Analysis Method: SM 2540 C-20										
Batch: T166159										
Total Dissolved Solids	**1900**	**mg/L**	**40**	**4**	**04/29/25**	**sm**	**04/29/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**6.0**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-21 | Date Collected: 04/24/25 11:00 | Matrix: Ground Water
Sample ID: MW-15016R | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166051										
Boron	**0.15**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**220**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**55**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.0050**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166051										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.0026**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**1.0**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00080**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00089**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	<0.00025	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00025
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	**0.00014**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.0010**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00062**
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012
WET CHEMISTRY										

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-21 | Date Collected: 04/24/25 11:00 | Matrix: Ground Water
Sample ID: MW-15016R | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166090										
Fluoride	**0.053**	**mg/L**	**0.020**	**1**	**04/28/25**	**ljs**	**04/29/25**	**ljs**	**N**	**0.011**
Chloride	**450**	**mg/L**	**7.5**	**50**	**04/25/25**	**ljs**	**04/28/25**	**ljs**		**6.0**
Sulfate as SO4	**0.53**	**mg/L**	**1.0**	**1**	**04/28/25**	**ljs**	**04/29/25**	**ljs**	**J**	**0.22**
Analysis Method: SM 2540 C-20										
Batch: T166159										
Total Dissolved Solids	**1400**	**mg/L**	**67**	**6.666667**	**04/29/25**	**sm**	**04/29/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**130**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-22 | Date Collected: 04/24/25 12:50 | Matrix: Ground Water
Sample ID: MW-15015R | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166051										
Boron	**2.1**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**580**	**mg/L**	**2.6**	**10**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.37**
Iron	**8.9**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.067**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166051										
Antimony	**0.00062**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Arsenic	**0.055**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.066**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Cobalt	**0.00015**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00050	mg/L	0.0028	5	04/29/25	ejb	05/02/25	drm	DL02	0.00050
Molybdenum	**0.14**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	**0.00082**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00065**
Selenium	**0.00024**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.00038	mg/L	0.0019	5	04/29/25	ejb	05/02/25	drm	DL02	0.00038
Vanadium	**0.031**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00062**
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-22 | Date Collected: 04/24/25 12:50 | Matrix: Ground Water
Sample ID: MW-15015R | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	<0.11	mg/L	0.20	10	04/25/25	ljs	04/26/25	ljs	N	0.11
Chloride	**45**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**1700**	**mg/L**	**60**	**100**	**04/25/25**	**ljs**	**04/28/25**	**ljs**		**22**
Analysis Method: SM 2540 C-20										
Batch: T166159										
Total Dissolved Solids	**2800**	**mg/L**	**40**	**4**	**04/29/25**	**sm**	**04/29/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**12**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-23 | Date Collected: 04/24/25 14:05 | Matrix: Ground Water
Sample ID: MW-15014R | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166051										
Boron	**1.4**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**300**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**5.0**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.048**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166051										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.00020**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Barium	**0.16**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00043**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	<0.00010	mg/L	0.00052	1	04/29/25	ejb	05/02/25	drm		0.00010
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.0019**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/29/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-23 | Date Collected: 04/24/25 14:05 | Matrix: Ground Water
Sample ID: MW-15014R | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.29**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**N**	**0.11**
Chloride	**77**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**530**	**mg/L**	**30**	**50**	**04/25/25**	**ljs**	**04/28/25**	**ljs**		**11**
Analysis Method: SM 2540 C-20										
Batch: T166159										
Total Dissolved Solids	**1400**	**mg/L**	**40**	**4**	**04/29/25**	**sm**	**04/29/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**6.0**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-24 | Date Collected: 04/24/25 08:50 | Matrix: Ground Water
Sample ID: MW-15013 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166051										
Boron	**0.66**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**79**	**mg/L**	**0.26**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.037**
Iron	**2.7**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.027**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166051										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.0020**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.075**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	**0.00028**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.000052**
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.0025**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00035**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	**0.0051**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Lead	**0.0047**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Molybdenum	**0.0012**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	**0.0015**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00065**
Selenium	**0.00028**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	**0.00014**	**mg/L**	**0.00038**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.000075**
Vanadium	**0.0053**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00062**
Zinc	**0.0033**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.0012**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-24 | Date Collected: 04/24/25 08:50 | Matrix: Ground Water
Sample ID: MW-15013 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.13**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J, N**	**0.11**
Chloride	**48**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**48**	**mg/L**	**6.0**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**2.2**
Analysis Method: SM 2540 C-20										
Batch: T166159										
Total Dissolved Solids	**360**	**mg/L**	**40**	**4**	**04/29/25**	**sm**	**04/29/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	**240**	**mg/L**	**4.0**	**1**	**04/28/25**	**sm**	**04/28/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-25 | Date Collected: 04/24/25 10:00 | Matrix: Ground Water
Sample ID: MW-15004 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166128										
Mercury	<0.00016	mg/L	0.00020	1	04/30/25	cma	05/01/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166051										
Boron	**0.12**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**71**	**mg/L**	**0.26**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.037**
Iron	**0.97**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.0019**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**J, N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166051										
Antimony	**0.00012**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Arsenic	**0.00049**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Barium	**0.036**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00039**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00014**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	**0.00040**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.00097**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	**0.00045**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00062
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-25 | Date Collected: 04/24/25 10:00 | Matrix: Ground Water
Sample ID: MW-15004 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166026										
Fluoride	**0.55**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**N**	**0.11**
Chloride	**73**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**4.7**	**mg/L**	**6.0**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J**	**2.2**
Analysis Method: SM 2540 C-20										
Batch: T166159										
Total Dissolved Solids	**400**	**mg/L**	**40**	**4**	**04/29/25**	**sm**	**04/29/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166085										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/28/25	sm	04/28/25	sm		4.0

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-26 | Date Collected: 04/24/25 11:10 | Matrix: Ground Water
Sample ID: MW-15003 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166287										
Mercury	<0.00016	mg/L	0.00020	1	05/01/25	cma	05/02/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166051										
Boron	**0.48**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**93**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**1.3**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.010**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166051										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.00013**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Barium	**0.091**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00083**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00016**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	<0.00025	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00025
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	**0.00010**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.0016**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00062**
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-26 | Date Collected: 04/24/25 11:10 | Matrix: Ground Water
Sample ID: MW-15003 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166042										
Fluoride	**0.54**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**N**	**0.11**
Chloride	**360**	**mg/L**	**3.8**	**25**	**04/25/25**	**ljs**	**04/28/25**	**ljs**		**3.0**
Sulfate as SO4	<0.22	mg/L	1.0	1	04/28/25	ljs	04/29/25	ljs		0.22
Analysis Method: SM 2540 C-20										
Batch: T166159										
Total Dissolved Solids	**980**	**mg/L**	**40**	**4**	**04/29/25**	**sm**	**04/29/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166109										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/28/25	sm	04/28/25	sm		4.0

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-27 | Date Collected: 04/24/25 12:10 | Matrix: Ground Water
Sample ID: MW-15002 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166287										
Mercury	<0.00016	mg/L	0.00020	1	05/01/25	cma	05/02/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166051										
Boron	**2.7**	**mg/L**	**0.0088**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**160**	**mg/L**	**1.3**	**5**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**0.23**	**mg/L**	**0.050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.025**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166051										
Antimony	<0.00010	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.00016**	**mg/L**	**0.00055**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Barium	**0.14**	**mg/L**	**0.0025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.000075
Chromium	**0.00067**	**mg/L**	**0.00025**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00020**
Cobalt	**0.00017**	**mg/L**	**0.00052**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Copper	<0.00020	mg/L	0.00025	1	04/29/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/29/25	ejb	05/02/25	drm		0.00010
Molybdenum	<0.00025	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00025
Nickel	<0.00065	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.00065
Selenium	**0.00011**	**mg/L**	**0.00050**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**	**J**	**0.00010**
Silver	<0.000050	mg/L	0.000050	1	04/29/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/29/25	ejb	05/02/25	drm		0.000075
Vanadium	**0.0014**	**mg/L**	**0.0012**	**1**	**04/29/25**	**ejb**	**05/02/25**	**drm**		**0.00062**
Zinc	<0.0012	mg/L	0.0012	1	04/29/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-27 | Date Collected: 04/24/25 12:10 | Matrix: Ground Water
Sample ID: MW-15002 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166042										
Fluoride	**0.27**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**N**	**0.11**
Chloride	**570**	**mg/L**	**7.5**	**50**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**6.0**
Sulfate as SO4	**0.25**	**mg/L**	**1.0**	**1**	**04/28/25**	**ljs**	**04/29/25**	**ljs**	**J**	**0.22**
Analysis Method: SM 2540 C-20										
Batch: T166159										
Total Dissolved Solids	**1500**	**mg/L**	**40**	**4**	**04/29/25**	**sm**	**04/29/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166172										
Total Suspended Solids	**5.0**	**mg/L**	**4.0**	**1**	**04/29/25**	**sm**	**04/29/25**	**sm**		**4.0**

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-28 | Date Collected: 04/24/25 13:50 | Matrix: Ground Water
Sample ID: MW-17006 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 7470A										
Batch: T166287										
Mercury	<0.00016	mg/L	0.00020	1	05/01/25	cma	05/02/25	jlh		0.00016
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T166262										
Boron	**0.54**	**mg/L**	**0.0088**	**1**	**04/30/25**	**ejb**	**05/02/25**	**jlh**		**0.0051**
Calcium	**96**	**mg/L**	**1.3**	**5**	**04/30/25**	**ejb**	**05/02/25**	**jlh**		**0.18**
Iron	**0.71**	**mg/L**	**0.050**	**1**	**04/30/25**	**ejb**	**05/02/25**	**jlh**		**0.0075**
Lithium	**0.028**	**mg/L**	**0.0025**	**1**	**04/30/25**	**ejb**	**05/02/25**	**jlh**	**N**	**0.0019**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T166262										
Antimony	<0.00010	mg/L	0.00025	1	04/30/25	ejb	05/02/25	drm		0.00010
Arsenic	**0.0042**	**mg/L**	**0.00055**	**1**	**04/30/25**	**ejb**	**05/02/25**	**drm**		**0.00010**
Barium	**0.075**	**mg/L**	**0.0025**	**1**	**04/30/25**	**ejb**	**05/02/25**	**drm**		**0.00068**
Beryllium	<0.000052	mg/L	0.00025	1	04/30/25	ejb	05/02/25	drm		0.000052
Cadmium	<0.000075	mg/L	0.00025	1	04/30/25	ejb	05/02/25	drm		0.000075
Chromium	<0.00020	mg/L	0.00025	1	04/30/25	ejb	05/02/25	drm		0.00020
Cobalt	<0.00010	mg/L	0.00052	1	04/30/25	ejb	05/02/25	drm		0.00010
Copper	<0.00020	mg/L	0.00025	1	04/30/25	ejb	05/02/25	drm		0.00020
Lead	<0.00010	mg/L	0.00055	1	04/30/25	ejb	05/02/25	drm		0.00010
Molybdenum	**0.053**	**mg/L**	**0.0012**	**1**	**04/30/25**	**ejb**	**05/02/25**	**drm**		**0.00025**
Nickel	<0.00065	mg/L	0.0012	1	04/30/25	ejb	05/02/25	drm		0.00065
Selenium	<0.00010	mg/L	0.00050	1	04/30/25	ejb	05/02/25	drm		0.00010
Silver	<0.000050	mg/L	0.000050	1	04/30/25	ejb	05/02/25	drm		0.000050
Thallium	<0.000075	mg/L	0.00038	1	04/30/25	ejb	05/02/25	drm		0.000075
Vanadium	<0.00062	mg/L	0.0012	1	04/30/25	ejb	05/02/25	drm		0.00062
Zinc	<0.0012	mg/L	0.0012	1	04/30/25	ejb	05/02/25	drm		0.0012

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ANALYTICAL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

Trace ID: 25D1770-28 | Date Collected: 04/24/25 13:50 | Matrix: Ground Water
Sample ID: MW-17006 | Date Received: 04/25/25 08:09

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T166042										
Fluoride	**0.18**	**mg/L**	**0.20**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**	**J, N**	**0.11**
Chloride	**52**	**mg/L**	**1.5**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**1.2**
Sulfate as SO4	**93**	**mg/L**	**6.0**	**10**	**04/25/25**	**ljs**	**04/26/25**	**ljs**		**2.2**
Analysis Method: SM 2540 C-20										
Batch: T166159										
Total Dissolved Solids	**490**	**mg/L**	**40**	**4**	**04/29/25**	**sm**	**04/29/25**	**sm**		
Analysis Method: SM 2540 D-20										
Batch: T166109										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/28/25	sm	04/28/25	sm		4.0

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QUALITY CONTROL RESULTS

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T165995
QC Batch Method: EPA 7470A Prep
Analysis Description: Mercury, Total, EPA 7470/7471
Analysis Method: EPA 7470A

METHOD BLANK: T165995-BLK1

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

LABORATORY CONTROL SAMPLE: T165995-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	mg/L	0.00200	0.00210	105	80-120	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166128
QC Batch Method: EPA 7470A Prep
Analysis Description: Mercury, Total, EPA 7470/7471
Analysis Method: EPA 7470A

METHOD BLANK: T166128-BLK1

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

LABORATORY CONTROL SAMPLE: T166128-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	mg/L	0.00200	0.00228	114	80-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T166128-MSD1

Original: **25D1770-06**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	mg/L	0	0.00200	0.00232	0.00234	116	117	76-123	0.9	20	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166287
QC Batch Method: EPA 7470A Prep
Analysis Description: Mercury, Total, EPA 7470/7471
Analysis Method: EPA 7470A

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METHOD BLANK: T166287-BLK1

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

LABORATORY CONTROL SAMPLE: T166287-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	mg/L	0.00200	0.00226	113	80-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T166287-MSD1 Original: **25D1770-26**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	mg/L	0	0.00200	0.00222	0.00226	111	113	76-123	2	20	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166049
QC Batch Method: EPA 200.2

Analysis Description: Lithium, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T166049-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	<0.0088	0.0088	
Calcium	mg/L	<0.26	0.26	
Iron	mg/L	<0.050	0.050	
Lithium	mg/L	<0.0025	0.0025	

LABORATORY CONTROL SAMPLE: T166049-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.60	1.60	100	85-115	
Calcium	mg/L	16.0	15.4	96	85-115	
Iron	mg/L	16.0	15.2	95	85-115	
Lithium	mg/L	1.60	1.67	105	85-115	

MATRIX SPIKE: T166049-MS1 Original: **25D1770-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	3.13	1.60	4.89	110	70-130	
Calcium	**mg/L**	**275**	**16.0**	285	**63**	**70-130**	**MS09**
Iron	mg/L	16.8	16.0	32.8	100	70-130	

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MATRIX SPIKE: T166049-MS1 Original: **25D1770-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Lithium	mg/L	0.0669	1.60	1.78	107	70-130	

MATRIX SPIKE: T166049-MS2 Original: **25D1770-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	0.402	1.60	2.04	102	70-130	
Calcium	mg/L	85.1	16.0	101	102	70-130	
Iron	mg/L	12.7	16.0	28.6	99	70-130	
Lithium	mg/L	0.0111	1.60	1.72	107	70-130	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166051
QC Batch Method: EPA 200.2

Analysis Description: Lithium, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T166051-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	<0.0088	0.0088	
Calcium	mg/L	<0.26	0.26	
Iron	mg/L	<0.050	0.050	
Lithium	mg/L	<0.0025	0.0025	

LABORATORY CONTROL SAMPLE: T166051-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.60	1.59	99	85-115	
Calcium	mg/L	16.0	15.9	99	85-115	
Iron	mg/L	16.0	14.9	93	85-115	
Lithium	mg/L	1.60	1.76	110	85-115	

MATRIX SPIKE: T166051-MS1 Original: **25D1770-21**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	0.153	1.60	1.76	100	70-130	
Calcium	mg/L	220	16.0	233	83	70-130	
Iron	mg/L	55.3	16.0	72.6	108	70-130	
Lithium	mg/L	0	1.60	1.79	112	70-130	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

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QC Batch: T166262
QC Batch Method: EPA 200.2

Analysis Description: Iron, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T166262-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	<0.0088	0.0088	
Calcium	mg/L	<0.26	0.26	
Iron	mg/L	<0.050	0.050	
Lithium	mg/L	<0.0025	0.0025	

LABORATORY CONTROL SAMPLE: T166262-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.60	1.50	94	85-115	
Calcium	mg/L	16.0	15.2	95	85-115	
Iron	mg/L	16.0	14.1	88	85-115	
Lithium	mg/L	1.60	1.67	104	85-115	

MATRIX SPIKE: T166262-MS1 Original: **25D1770-28**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	0.538	1.60	2.19	104	70-130	
Calcium	**mg/L**	**96.2**	**16.0**	127	**193**	**70-130**	**MS09**
Iron	mg/L	0.714	16.0	15.2	91	70-130	
Lithium	mg/L	0.0277	1.60	1.85	114	70-130	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166049
QC Batch Method: EPA 200.2

Analysis Description: Beryllium, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T166049-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Arsenic	mg/L	<0.00055	0.00055	
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	<0.00025	0.00025	
Cadmium	mg/L	<0.00025	0.00025	
Cobalt	mg/L	<0.00052	0.00052	
Chromium	mg/L	<0.00025	0.00025	

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METHOD BLANK: T166049-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Copper	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Nickel	mg/L	<0.0012	0.0012	
Lead	mg/L	<0.00055	0.00055	
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	<0.00050	0.00050	
Thallium	mg/L	<0.00038	0.00038	
Vanadium	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T166049-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.0500	0.0513	103	85-115	
Arsenic	mg/L	0.100	0.0996	100	85-115	
Barium	mg/L	1.60	1.66	104	85-115	
Beryllium	mg/L	0.200	0.203	101	85-115	
Cadmium	mg/L	0.0500	0.0570	114	85-115	
Cobalt	mg/L	1.60	1.54	96	85-115	
Chromium	mg/L	0.0500	0.0480	96	85-115	
Copper	mg/L	1.60	1.50	94	85-115	
Molybdenum	mg/L	1.60	1.62	101	85-115	
Nickel	mg/L	1.60	1.57	98	85-115	
Lead	mg/L	0.100	0.0998	100	85-115	
Antimony	mg/L	0.100	0.0964	96	85-115	
Selenium	mg/L	0.100	0.100	100	85-115	
Thallium	mg/L	0.100	0.0987	99	85-115	
Vanadium	mg/L	1.60	1.58	99	85-115	
Zinc	mg/L	1.60	1.63	102	85-115	

MATRIX SPIKE: T166049-MS1 Original: **25D1770-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.0500	0.0485	97	70-130	
Arsenic	mg/L	0.0267	0.100	0.128	102	70-130	
Barium	mg/L	0.273	1.60	1.98	107	70-130	
Beryllium	mg/L	0	0.200	0.175	87	70-130	
Cadmium	mg/L	0	0.0500	0.0545	109	70-130	
Cobalt	mg/L	0	1.60	1.46	91	70-130	

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MATRIX SPIKE: T166049-MS1 Original: **25D1770-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chromium	mg/L	0	0.0500	0.0464	93	70-130	
Copper	mg/L	0	1.60	1.36	85	70-130	
Molybdenum	mg/L	0.0158	1.60	1.71	106	70-130	
Nickel	mg/L	0	1.60	1.44	90	70-130	
Lead	mg/L	0	0.100	0.104	104	70-130	
Antimony	mg/L	0	0.100	0.119	119	70-130	
Selenium	mg/L	0	0.100	0.0927	93	70-130	
Thallium	mg/L	0	0.100	0.106	106	70-130	
Vanadium	mg/L	0	1.60	1.56	98	70-130	
Zinc	mg/L	0	1.60	1.41	88	70-130	

MATRIX SPIKE: T166049-MS2 Original: **25D1770-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.0500	0.0505	101	70-130	
Arsenic	mg/L	0	0.100	0.0979	98	70-130	
Barium	mg/L	0.155	1.60	1.86	107	70-130	
Beryllium	mg/L	0	0.200	0.195	98	70-130	
Cadmium	mg/L	0	0.0500	0.0567	113	70-130	
Cobalt	mg/L	0	1.60	1.51	94	70-130	
Chromium	mg/L	0	0.0500	0.0476	95	70-130	
Copper	mg/L	0	1.60	1.43	89	70-130	
Molybdenum	mg/L	0	1.60	1.67	104	70-130	
Nickel	mg/L	0	1.60	1.49	93	70-130	
Lead	mg/L	0	0.100	0.102	102	70-130	
Antimony	mg/L	0	0.100	0.119	119	70-130	
Selenium	mg/L	0	0.100	0.0919	92	70-130	
Thallium	mg/L	0	0.100	0.103	103	70-130	
Vanadium	mg/L	0	1.60	1.59	99	70-130	
Zinc	mg/L	0	1.60	1.49	93	70-130	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166051
QC Batch Method: EPA 200.2

Analysis Description: Silver, Total
Analysis Method: EPA 200.8 Rev. 5.4

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METHOD BLANK: T166051-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Arsenic	mg/L	<0.00055	0.00055	
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	<0.00025	0.00025	
Cadmium	mg/L	<0.00025	0.00025	
Cobalt	mg/L	<0.00052	0.00052	
Chromium	mg/L	<0.00025	0.00025	
Copper	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Nickel	mg/L	<0.0012	0.0012	
Lead	mg/L	<0.00055	0.00055	
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	<0.00050	0.00050	
Thallium	mg/L	<0.00038	0.00038	
Vanadium	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T166051-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.0500	0.0529	106	85-115	
Arsenic	mg/L	0.100	0.0979	98	85-115	
Barium	mg/L	1.60	1.71	107	85-115	
Beryllium	mg/L	0.200	0.223	111	85-115	
Cadmium	mg/L	0.0500	0.0457	91	85-115	
Cobalt	mg/L	1.60	1.54	96	85-115	
Chromium	mg/L	0.0500	0.0477	95	85-115	
Copper	mg/L	1.60	1.50	94	85-115	
Molybdenum	mg/L	1.60	1.67	105	85-115	
Nickel	mg/L	1.60	1.57	98	85-115	
Lead	mg/L	0.100	0.102	102	85-115	
Antimony	mg/L	0.100	0.0928	93	85-115	
Selenium	mg/L	0.100	0.0948	95	85-115	
Thallium	mg/L	0.100	0.102	102	85-115	
Vanadium	mg/L	1.60	1.58	99	85-115	
Zinc	mg/L	1.60	1.56	97	85-115	

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MATRIX SPIKE: T166051-MS1 Original: **25D1770-21**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.0500	0.0489	98	70-130	
Arsenic	mg/L	0.00264	0.100	0.0999	97	70-130	
Barium	mg/L	1.03	1.60	2.75	108	70-130	
Beryllium	mg/L	0	0.200	0.199	100	70-130	
Cadmium	mg/L	0	0.0500	0.0549	110	70-130	
Cobalt	mg/L	0.000889	1.60	1.52	95	70-130	
Chromium	mg/L	0.000800	0.0500	0.0614	123	70-130	
Copper	mg/L	0	1.60	1.38	86	70-130	
Molybdenum	mg/L	0	1.60	1.69	106	70-130	
Nickel	mg/L	0	1.60	1.46	91	70-130	
Lead	mg/L	0	0.100	0.105	105	70-130	
Antimony	mg/L	0	0.100	0.118	118	70-130	
Selenium	mg/L	0	0.100	0.0878	88	70-130	
Thallium	mg/L	0	0.100	0.105	105	70-130	
Vanadium	mg/L	0	1.60	1.57	98	70-130	
Zinc	mg/L	0	1.60	1.41	88	70-130	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166262
QC Batch Method: EPA 200.2

Analysis Description: Silver, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T166262-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Arsenic	mg/L	<0.00055	0.00055	
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	<0.00025	0.00025	
Cadmium	mg/L	<0.00025	0.00025	
Cobalt	mg/L	<0.00052	0.00052	
Chromium	mg/L	<0.00025	0.00025	
Copper	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Nickel	mg/L	<0.0012	0.0012	
Lead	mg/L	<0.00055	0.00055	
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	<0.00050	0.00050	

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METHOD BLANK: T166262-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Thallium	mg/L	<0.00038	0.00038	
Vanadium	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T166262-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.0500	0.0498	100	85-115	
Arsenic	mg/L	0.100	0.0961	96	85-115	
Barium	mg/L	1.60	1.65	103	85-115	
Beryllium	mg/L	0.200	0.201	101	85-115	
Cadmium	mg/L	0.0500	0.0551	110	85-115	
Cobalt	mg/L	1.60	1.49	93	85-115	
Chromium	mg/L	0.0500	0.0451	90	85-115	
Copper	mg/L	1.60	1.47	92	85-115	
Molybdenum	mg/L	1.60	1.57	98	85-115	
Nickel	mg/L	1.60	1.52	95	85-115	
Lead	mg/L	0.100	0.0964	96	85-115	
Antimony	mg/L	0.100	0.115	115	85-115	
Selenium	mg/L	0.100	0.0920	92	85-115	
Thallium	mg/L	0.100	0.0956	96	85-115	
Vanadium	mg/L	1.60	1.52	95	85-115	
Zinc	mg/L	1.60	1.53	96	85-115	

MATRIX SPIKE: T166262-MS1 Original: **25D1770-28**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.0500	0.0509	102	70-130	
Arsenic	mg/L	0.00418	0.100	0.101	96	70-130	
Barium	mg/L	0.0754	1.60	1.82	109	70-130	
Beryllium	mg/L	0	0.200	0.202	101	70-130	
Cadmium	mg/L	0	0.0500	0.0565	113	70-130	
Cobalt	mg/L	0	1.60	1.47	92	70-130	
Chromium	mg/L	0	0.0500	0.0455	91	70-130	
Copper	mg/L	0	1.60	1.37	86	70-130	
Molybdenum	mg/L	0.0529	1.60	1.74	105	70-130	
Nickel	mg/L	0	1.60	1.45	91	70-130	
Lead	mg/L	0	0.100	0.103	103	70-130	

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MATRIX SPIKE: T166262-MS1 Original: **25D1770-28**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Antimony	mg/L	0	0.100	0.121	121	70-130	
Selenium	mg/L	0	0.100	0.0886	89	70-130	
Thallium	mg/L	0	0.100	0.103	103	70-130	
Vanadium	mg/L	0	1.60	1.56	97	70-130	
Zinc	mg/L	0	1.60	1.42	89	70-130	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T165878
QC Batch Method: IC Prep W
Analysis Description: Fluoride
Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T165878-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Chloride	mg/L	<0.15	0.15	
Fluoride	mg/L	<0.020	0.020	
Sulfate as SO4	mg/L	<0.60	0.60	

LABORATORY CONTROL SAMPLE: T165878-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	mg/L	5.00	5.17	103	90-110	
Fluoride	mg/L	1.00	1.07	107	90-110	
Sulfate as SO4	mg/L	5.00	5.04	101	90-110	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T165892
QC Batch Method: IC Prep W
Analysis Description: Fluoride
Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T165892-BLK1

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

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LABORATORY CONTROL SAMPLE: T165892-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	**mg/L**	**5.00**	**<10**	**103**	**90-110**	**J**
Fluoride	mg/L	1.00	1.07	107	90-110	
Sulfate as SO4	mg/L	5.00	5.04	101	90-110	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166026
QC Batch Method: IC Prep W
Analysis Description: Chloride
Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T166026-BLK1

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

LABORATORY CONTROL SAMPLE: T166026-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	**mg/L**	**5.00**	**<10**	**103**	**90-110**	**J**
Fluoride	mg/L	1.00	1.08	108	90-110	
Sulfate as SO4	mg/L	5.00	4.99	100	90-110	

MATRIX SPIKE: T166026-MS1 Original: **25D1770-07**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	76.1	50.0	130	108	80-120	
Fluoride	mg/L	0	10.0	10.4	104	80-120	
Sulfate as SO4	mg/L	0	50.0	50.1	100	80-120	

MATRIX SPIKE: T166026-MS2 Original: **25D1770-09**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	40.3	50.0	92.9	105	80-120	
Fluoride	mg/L	0.180	10.0	10.5	103	80-120	
Sulfate as SO4	mg/L	0	50.0	50.8	102	80-120	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

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QC Batch: T166042
QC Batch Method: IC Prep W

Analysis Description: Sulfate
Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T166042-BLK1

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

LABORATORY CONTROL SAMPLE: T166042-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	**mg/L**	**5.00**	**<10**	**103**	**90-110**	**J**
Fluoride	mg/L	1.00	1.08	108	90-110	
Sulfate as SO4	mg/L	5.00	4.99	100	90-110	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166090
QC Batch Method: IC Prep W

Analysis Description: Fluoride
Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T166090-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Fluoride	mg/L	<0.020	0.020	
Sulfate as SO4	mg/L	<0.60	0.60	

LABORATORY CONTROL SAMPLE: T166090-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Fluoride	mg/L	1.00	1.09	109	90-110	
Sulfate as SO4	mg/L	5.00	5.03	101	90-110	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T165871
QC Batch Method: SM 2540 C-20

Analysis Description: Total Dissolved Solids
Analysis Method: SM 2540 C-20

METHOD BLANK: T165871-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes

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METHOD BLANK: T165871-BLK1

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

LABORATORY CONTROL SAMPLE: T165871-BS1

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

SAMPLE DUPLICATE: T165871-DUP1 Original: **25D1770-04**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	788	804	2	10	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T165873
QC Batch Method: SM 2540 C-20
Analysis Description: Total Dissolved Solids
Analysis Method: SM 2540 C-20

METHOD BLANK: T165873-BLK1

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

LABORATORY CONTROL SAMPLE: T165873-BS1

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

SAMPLE DUPLICATE: T165873-DUP1 Original: **25D1770-05**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	764	764	0	10	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166103
QC Batch Method: SM 2540 C-20
Analysis Description: Total Dissolved Solids
Analysis Method: SM 2540 C-20

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METHOD BLANK: T166103-BLK1

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

LABORATORY CONTROL SAMPLE: T166103-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500	484	97	80-120	

SAMPLE DUPLICATE: T166103-DUP1 Original: **25D1770-09**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	**mg/L**	**365**	**320**	**13**	**10**	**RPD**

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166159
QC Batch Method: SM 2540 C-20
Analysis Description: Total Dissolved Solids
Analysis Method: SM 2540 C-20

METHOD BLANK: T166159-BLK1

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

LABORATORY CONTROL SAMPLE: T166159-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500	492	98	80-120	

SAMPLE DUPLICATE: T166159-DUP1 Original: **25D1770-19**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	1030	967	6	10	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T165867
QC Batch Method: SM 2540 D-20
Analysis Description: Total Suspended Solids
Analysis Method: SM 2540 D-20

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METHOD BLANK: T165867-BLK1

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

LABORATORY CONTROL SAMPLE: T165867-BS1

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

SAMPLE DUPLICATE: T165867-DUP1 Original: **25D1770-01**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Suspended Solids	mg/L	44.0	46.0	4	10	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166085
QC Batch Method: SM 2540 D-20
Analysis Description: Total Suspended Solids
Analysis Method: SM 2540 D-20

METHOD BLANK: T166085-BLK1

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

LABORATORY CONTROL SAMPLE: T166085-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100	88.0	88	85-115	

SAMPLE DUPLICATE: T166085-DUP1 Original: **25D1770-06**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Suspended Solids	**mg/L**	**6.00**	**6.00**	**0**	**10**	**J**

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166109
QC Batch Method: SM 2540 D-20
Analysis Description: Total Suspended Solids
Analysis Method: SM 2540 D-20

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METHOD BLANK: T166109-BLK1

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

LABORATORY CONTROL SAMPLE: T166109-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100	92.0	92	85-115	

Trace Project ID: 25D1770
Client Project ID: BC Cobb

QC Batch: T166172
QC Batch Method: SM 2540 D-20

Analysis Description: Total Suspended Solids
Analysis Method: SM 2540 D-20

METHOD BLANK: T166172-BLK1

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

LABORATORY CONTROL SAMPLE: T166172-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100	88.0	88	85-115	

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

DEFINITIONS

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

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

DATA QUALIFIERS

Trace ID: 25D1770-08

Analysis: EPA 200.8 Rev. 5.4

Lead	Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.
Thallium	Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Trace ID: 25D1770-09

Analysis: SM 2540 C-20

Total Dissolved Solids	Note RPD : The relative percent difference between the sample and sample duplicate is out of control. The sample result should be considered estimated.

Trace ID: 25D1770-22

Analysis: EPA 200.8 Rev. 5.4

Lead	Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.
Thallium	Note DL02 : The reporting limit was raised due to a dilution required because of chromatographic/matrix interference with the internal standards.

Trace ID: T166049-MS1

Analysis: EPA 200.7 Rev. 4.4

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

Trace ID: T166103-DUP1

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Analysis: SM 2540 C-20

Total Dissolved Solids	Note RPD : The relative percent difference between the sample and sample duplicate is out of control. The sample result should be considered estimated.

Trace ID: T166262-MS1

Analysis: EPA 200.7 Rev. 4.4

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

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Trace ID No. 25D1770

Report Results To:

Company Name: HDR Michigan, Inc.
Report To: Andrew Byks/Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor MI 48104
Office Phone: | Cell Phone:
Email Address: andrew.byks@hdrinc.com

Bill To:

PO #: 10220433
Contact Name: Lara Zawaideh
Billing Address (if different):
City, State, Zip Code:
Phone Number:
Billing Email Address:

Trace Use:

Logged By: CM
Checked By: MG
Soil Volatiles Preserved (circle if applicable): MeOH | Low Level | Lab
Sampling Time:

Turnaround Requirements:

☒ Standard, 5-10 Days
☐ 3 Day*
☐ 1 Day*
*Results provided end of business day, requires prior approval.

Matrix Key:

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

Project Name: BC Cobb
Sampled By: AB/FDR

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	Possible Health Hazards?	Remarks
1	4/22/25	940	MW-15023	N	W	3		2						
2	4/22/25	1120	MW-15020	N	W	3		2						
3	4/22/25	1250	MW-17005	N	W	3		2						
4	4/22/25	1148	MW-15010	N	W	3		2						
5	4/22/25	1148	MWT-15010	N	W	3		2						

Analysis Requested

App III Part 257	X	X	X	X	X
App IV Part 257	X	X	X	X	X
Part 115 Metals	X	X	X	X	X
TSS	X				

AB

Please Sign	Released By	Date	Time	Received By
1)	Andrew Byks	4/23/25	800	
2)				
3)				
4)				

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Form 70-Z.1

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

TRACE
ANALYTICAL LABORATORIES, INC.

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

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
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Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
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Page 1 of 3

Trace ID No. 25D1770

Report Results To:

Company Name: HDR Michigan, Inc
Report To: Andrew Byks/Molly Reeves
Mailing Address: 1000 Oakbrook Drive, Suite 200
City, State, Zip Code: Ann Arbor MI 48104
Office Phone: Cell Phone:
Email Address: andrew.byks@hdrinc.com

Bill To:

PO #: 10222433
Contact Name: Lara Zawacken
Billing Address (if different):
City, State, Zip Code:
Phone Number:
Billing Email Address: lara.zawacken@hdrinc.com

Turnaround Requirements:

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

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

Matrix Key:

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

Trace Use:

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

Project Name: BC Cobb
Sampled By: AB/FDR

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	Analysis Requested	Possible Health Hazards?	Remarks
6	4/23/25	1015	MW-17004	N	W	3		2					App III Part 257		
													App IV Part 257		
													Part 115 Metals		
													TSS		
7	4/23/25	1140	MW-15019	N	W	3		2							
8	4/23/25	1245	MW-17003	N	W	3		2							
9	4/23/25	1400	MW-15018	N	W	3		2							
10	4/23/25	1545	MW-15017	N	W	3		2							
11	4/23/25	1705	MW-17002	N	W	3		2							
12	4/23/25	952	MW-15005	N	W	3		2							
13	4/23/25	952	MWT-15005	N	W	3		2							
14	4/23/25	1128	MW-15006	N	W	3		2							
15	4/23/25	1234	MW-15009	N	W	3		2							

Please Sign	Released By	Date	Time	Received By	Date	Time
1)	Andrew Byks	4/25/25	809	2)		
3)				4)	4/25/25	1055

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Muskegon, MI 49444-2673

TRACE ANALYTICAL LABORATORIES, INC.

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

25D1770
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-12 (CF: 0.0°C)	IR-13 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Date: 4/23/25									
Time: 855									
Initials: CM									
Package Description: Cooler									
Package Temp °C	-0.3	-0.3		/					
Representative Sample Temp °C	0.7	0.3				/		/	

Sample Receipt

Yes / No

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

Sample Condition

Yes / No / N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace _____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  - [x] pH 0-2.5 (Lot: HC311850) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs _____

Chain of Custody (COC)

Yes / No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-15010
MW-15020
MWT-15010
MW-17005
MW-15023

Form 70-A.57
Effective 2/20/25

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www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

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

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. 25D1770

Report Results To:

Company Name:	HDR Michigan Inc
Report To:	Andrew Byks/Molly Reeves
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	Cell Phone:
Email Address:	andrew.byks@hdrinc.com

Bill To:

PO #:	10220433
Contact Name:	Lara Zawacken
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	lara.zawacken@hdrinc.com

Trace Use:

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

Turnaround Requirements:

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

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

Matrix Key:

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

Project Name: BC Cobb

Sampled By: AB/FDR

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	Analysis Requested: App III Part 257	App IV Part 257	TSS	Part 11S Metals	Remarks
16	4/23/25	1348	MW-15007	N	W	3	3	2					X	X	X	X	
17	4/23/25	1458	MW-15009	N	W	3	3	2					X	X	X	X	
18	4/23/25	1602	MW-15022	N	W	3	3	2					X	X	X	X	
19	4/23/25	1700	MW-15021	N	W	3	3	2					X	X	X	X	
20	4/24/25	1005	MW-17001R	N	W	3	3	2					X	X	X	X	
21	4/24/25	1100	MW-15016R	N	W	3	3	2					X	X	X	X	
22	4/24/25	1250	MW-15015R	N	W	3	3	2					X	X	X	X	
23	4/24/25	1405	MW-15014R	N	W	4	4	3					X	X	X	X	2-250mL HNO3 Prsv
24	4/24/25	950	MW-15013	N	W	3	3	2					X	X	X	X	
25	4/24/25	1000	MW-15004	N	W	3	3	2					X	X	X	X	

Possible Health Hazards?

Please Sign	Released By	Received By	Date	Time
1)	Andy Byk	Cyhn	4/25/25	8:10
2)				
3)				
4)			4/25/25	1055

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Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

NC 4/28/25 Page 3 of 3

Trace ID No. 25D1770

Report Results To:

Company Name:	HDR Michigan Inc
Report To:	Andrew Byers/Molly Reeves
Mailing Address:	1000 Oakbrook Dr, Ste 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	
Cell Phone:	
Email Address:	andrew.byers@hdrinc.com

Bill To:

Company Name:	
PO #:	10220433
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	lara.zawaideh@hdrinc.com

Trace Use:

Logged By:	NC
Checked By:	MJ
Soil Volatiles Preserved (circle if applicable):	MeOH / Low Level / Lab
Sampling Time:	

Turnaround Requirements:

☑ Standard: 5-10 Days
☐ 3 Day*
☐ 1 Day*

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

Matrix Key:

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

Project Name: BC Cobb

Sampled By: AB/FDR

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	Analysis Requested: App III Part 257	App IV Part 257	Part 115 Metals	TDS	Remarks	Possible Health Hazards?
26	4/24/25	1110	MW-15003	N	W	3			2				X	X	X	X		
27	4/24/25	1210	MW-15002	N	W	6			2				X	X	X	X	-500mL unpres in 4x 125mL	
28	4/24/25	1350	MW-17006	N	W	3			1				X	X	X	X	add nitric to pH<2 @ Lab	

	Released By	Received By	Date	Time
1)	[signature]	[signature]	4/25/25	8:11
2)				
3)				
4)				

Please Sign

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

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Muskegon, MI 49444-2673

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

25D1770
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-12 (CF: 0.0°C)	IR-13 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Date: 4/25/25									
Time: 9:00									
Initials: CN									
Package Description: Cooler									
Package Temp °C	-0.4	-0.4		X					
Representative Sample Temp °C	1.0	1.0		X					

Sample Receipt

Yes No

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

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC311850) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

Form 70-A.57
Effective 2/20/25

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TRACE
ANALYTICAL LABORATORIES, INC.

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

June 05, 2025

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

RE: Trace Project 25D1772
Client Project BC Cobb- MW Radium Analysis- April 2025

Dear Ms. Reeves:

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

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

The results were obtained from Eurofins Eaton East Analytical.

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

Sincerely,

Jon Mink
Senior Project Manager

Enclosures

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Trace Analytical Laboratories, Inc.
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Muskegon, MI 49444-2673

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

SAMPLE SUMMARY

Trace Project ID: 25D1772
Client Project ID: BC Cobb- MW Radium Analysis- April 2025

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
25D1772-01	MW-15023	Ground Water	AB/FDR	04/22/25 09:40	04/23/25 08:00
25D1772-02	MW-15020	Ground Water	AB/FDR	04/22/25 11:20	04/23/25 08:00
25D1772-03	MW-17005	Ground Water	AB/FDR	04/22/25 12:50	04/23/25 08:00
25D1772-04	MW-15010	Ground Water	AB/FDR	04/22/25 11:48	04/23/25 08:00
25D1772-05	MWT-15010	Ground Water	AB/FDR	04/22/25 11:48	04/23/25 08:00
25D1772-06	MW-17004	Ground Water	AB/FDR	04/23/25 10:15	04/25/25 08:09
25D1772-07	MW-15019	Ground Water	AB/FDR	04/23/25 11:40	04/25/25 08:09
25D1772-08	MW-17003	Ground Water	AB/FDR	04/23/25 12:45	04/25/25 08:09
25D1772-09	MW-15018	Ground Water	AB/FDR	04/23/25 14:00	04/25/25 08:09
25D1772-10	MW-15017	Ground Water	AB/FDR	04/23/25 15:45	04/25/25 08:09
25D1772-11	MW-17002	Ground Water	AB/FDR	04/23/25 17:05	04/25/25 08:09
25D1772-12	MW-15005	Ground Water	AB/FDR	04/23/25 09:52	04/25/25 08:09
25D1772-13	MWT-15005	Ground Water	AB/FDR	04/23/25 09:52	04/25/25 08:09
25D1772-14	MW-15006	Ground Water	AB/FDR	04/23/25 11:28	04/25/25 08:09
25D1772-15	MW-15008	Ground Water	AB/FDR	04/23/25 12:34	04/25/25 08:09
25D1772-16	MW-15007	Ground Water	AB/FDR	04/23/25 13:48	04/25/25 08:09
25D1772-17	MW-15009	Ground Water	AB/FDR	04/23/25 14:58	04/25/25 08:09
25D1772-18	MW-15022	Ground Water	AB/FDR	04/23/25 16:02	04/25/25 08:09
25D1772-19	MW-15021	Ground Water	AB/FDR	04/23/25 17:00	04/25/25 08:09
25D1772-20	MW-17001R	Ground Water	AB/FDR	04/24/25 10:05	04/25/25 08:09
25D1772-21	MW-15016R	Ground Water	AB/FDR	04/24/25 11:00	04/25/25 08:09

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25D1772-22	MW-15015R	Ground Water	AB/FDR	04/24/25 12:50	04/25/25 08:09
25D1772-23	MW-15014R	Ground Water	AB/FDR	04/24/25 14:05	04/25/25 08:09
25D1772-24	MW-15013	Ground Water	AB/FDR	04/24/25 08:50	04/25/25 08:09
25D1772-25	MW-15004	Ground Water	AB/FDR	04/24/25 10:00	04/25/25 08:09
25D1772-26	MW-15003	Ground Water	AB/FDR	04/24/25 11:10	04/25/25 08:09
25D1772-27	MW-15002	Ground Water	AB/FDR	04/24/25 12:10	04/25/25 08:09
25D1772-28	MW-17006	Ground Water	AB/FDR	04/24/25 13:50	04/25/25 08:09

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eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jon Mink
Trace Analytical Laboratories
2241 Black Creek Road
Muskegon, Michigan 49444

Generated 6/3/2025 1:23:45 PM

JOB DESCRIPTION

25D1772

JOB NUMBER

810-146319-1

Eurofins Eaton Analytical South Bend
110 S Hill Street
South Bend IN 46617

See page two for job notes and contact information.

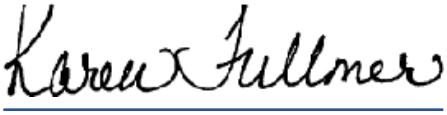
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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6/3/2025 1:23:45 PM

Authorized for release by
Karen Fullmer, Project Manager
Karen.Fullmer@et.eurofinsus.com
(574)233-4777

Table of Contents

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Definitions/Glossary

Client: Trace Analytical Laboratories
Job ID: 810-146319-1
Project/Site: 25D1772

Qualifiers

Rad

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

Glossary

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

Job ID: 810-146319-1 — Eurofins Eaton Analytical South Bend

Job Narrative
810-146319-1

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 4/28/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Gas Flow Proportional Counter
Method 903.0: Radium-226 prep batch 160-716338:

Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-15005 (810-146319-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) was prepared with a DU to demonstrate batch precision.

Method 904.0: Radium-228 prep batch 160-716340:

Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-15005 (810-146319-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) was prepared with a DU to demonstrate batch precision.

Method 904.0: Radium 228 Batch 716180

The Radium-228 laboratory control sample (LCS) associated with the following samples recovered at 127%: (LCS 160-716180/2-A). 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%. The LCS is within criteria and no further action is required.

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.

Detection Summary

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Client Sample ID: MW-17004 — **Lab Sample ID: 810-146319-1**

No Detections.

Client Sample ID: MW-15019 — **Lab Sample ID: 810-146319-2**

No Detections.

Client Sample ID: MW-17003 — **Lab Sample ID: 810-146319-3**

No Detections.

Client Sample ID: MW-15018 — **Lab Sample ID: 810-146319-4**

No Detections.

Client Sample ID: MW-15017 — **Lab Sample ID: 810-146319-5**

No Detections.

Client Sample ID: MW-17002 — **Lab Sample ID: 810-146319-6**

No Detections.

Client Sample ID: MW-15005 — **Lab Sample ID: 810-146319-7**

No Detections.

Client Sample ID: MWT-15005 — **Lab Sample ID: 810-146319-8**

No Detections.

Client Sample ID: MW-15006 — **Lab Sample ID: 810-146319-9**

No Detections.

Client Sample ID: MW-15008 — **Lab Sample ID: 810-146319-10**

No Detections.

Client Sample ID: MW-15007 — **Lab Sample ID: 810-146319-11**

No Detections.

Client Sample ID: MW-15009 — **Lab Sample ID: 810-146319-12**

No Detections.

Client Sample ID: MW-15022 — **Lab Sample ID: 810-146319-13**

No Detections.

Client Sample ID: MW-15021 — **Lab Sample ID: 810-146319-14**

No Detections.

Client Sample ID: MW-17001R — **Lab Sample ID: 810-146319-15**

No Detections.

Client Sample ID: MW-15016R — **Lab Sample ID: 810-146319-16**

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Client Sample ID: MW-15015R — **Lab Sample ID: 810-146319-17**

No Detections.

Client Sample ID: MW-15014R — **Lab Sample ID: 810-146319-18**

No Detections.

Client Sample ID: MW-15013 — **Lab Sample ID: 810-146319-19**

No Detections.

Client Sample ID: MW-15004 — **Lab Sample ID: 810-146319-20**

No Detections.

Client Sample ID: MW-15003 — **Lab Sample ID: 810-146319-21**

No Detections.

Client Sample ID: MW-15002 — **Lab Sample ID: 810-146319-22**

No Detections.

Client Sample ID: MW-17006 — **Lab Sample ID: 810-146319-23**

No Detections.

Client Sample ID: MW-15023 — **Lab Sample ID: 810-146319-24**

No Detections.

Client Sample ID: MW-15020 — **Lab Sample ID: 810-146319-25**

No Detections.

Client Sample ID: MW-17005 — **Lab Sample ID: 810-146319-26**

No Detections.

Client Sample ID: MW-15010 — **Lab Sample ID: 810-146319-27**

No Detections.

Client Sample ID: MWT-15010 — **Lab Sample ID: 810-146319-28**

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-17004

Lab Sample ID: 810-146319-1

Date Collected: 04/23/25 10:15

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	U	0.215	0.216	1.00	0.313	pCi/L	05/06/25 07:36	06/02/25 16:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:24*	*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	0.332	U	0.361	0.362	1.00	0.587	pCi/L	05/06/25 07:40	06/02/25 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*1*
Y Carrier	*77.0*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*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	**0.593**		0.420	0.422	5.00	0.587	pCi/L		06/02/25 10:11	1

Client Sample ID: MW-15019

Lab Sample ID: 810-146319-2

Date Collected: 04/23/25 11:40

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	U	0.314	0.316	1.00	0.458	pCi/L	05/06/25 07:36	06/02/25 16:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.9*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:24*	*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	**1.49**		0.622	0.637	1.00	0.810	pCi/L	05/06/25 07:40	06/02/25 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.9*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*1*
Y Carrier	*82.6*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*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	**1.88**		0.697	0.711	5.00	0.810	pCi/L		06/02/25 10:11	1

Client Sample ID: MW-17003

Lab Sample ID: 810-146319-3

Date Collected: 04/23/25 12:45

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	0.181	U	0.202	0.203	1.00	0.325	pCi/L	05/06/25 07:36	06/02/25 16:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:24*	*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	**0.621**		0.407	0.411	1.00	0.611	pCi/L	05/06/25 07:40	06/02/25 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*1*
Y Carrier	*84.1*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*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	**0.802**		0.454	0.458	5.00	0.611	pCi/L		06/02/25 10:11	1

Client Sample ID: MW-15018

Lab Sample ID: 810-146319-4

Date Collected: 04/23/25 14:00

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	0.195	U	0.333	0.334	1.00	0.578	pCi/L	05/06/25 07:36	06/02/25 16:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.3*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.08**		0.548	0.557	1.00	0.751	pCi/L	05/06/25 07:40	06/02/25 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.3*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*1*
Y Carrier	*76.6*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*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	**1.27**		0.641	0.649	5.00	0.751	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15017

Date Collected: 04/23/25 15:45
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-5

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.86		0.516	0.542	1.00	0.446	pCi/L	05/06/25 07:36	06/02/25 16:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:24*	*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	3.20		0.759	0.814	1.00	0.796	pCi/L	05/06/25 07:40	06/02/25 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*1*
Y Carrier	*78.9*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*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	5.06		0.918	0.978	5.00	0.796	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-17002

Date Collected: 04/23/25 17:05
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-6

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.556		0.378	0.382	1.00	0.522	pCi/L	05/06/25 07:36	06/02/25 16:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.1*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:25*	*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	0.637	U	0.526	0.529	1.00	0.807	pCi/L	05/06/25 07:40	06/02/25 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.1*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*1*
Y Carrier	*74.8*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*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	1.19		0.648	0.653	5.00	0.807	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15005

Lab Sample ID: 810-146319-7

Date Collected: 04/23/25 09:52

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	0.0157	U	0.0943	0.0943	1.00	0.190	pCi/L	05/07/25 07:48	06/01/25 13:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*05/07/25 07:48*	*06/01/25 13:17*	*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	-0.167	U	0.338	0.339	1.00	0.674	pCi/L	05/07/25 07:52	05/30/25 13:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*05/07/25 07:52*	*05/30/25 13:54*	*1*
Y Carrier	*75.9*		*30 - 110*	*05/07/25 07:52*	*05/30/25 13:54*	*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	0.0157	U	0.351	0.352	5.00	0.674	pCi/L		06/02/25 16:25	1

Client Sample ID: MWT-15005

Lab Sample ID: 810-146319-8

Date Collected: 04/23/25 09:52

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	0.127	U	0.200	0.200	1.00	0.346	pCi/L	05/06/25 07:36	06/02/25 16:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.3*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:25*	*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	0.0480	U	0.347	0.347	1.00	0.635	pCi/L	05/06/25 07:40	06/02/25 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.3*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*1*
Y Carrier	*81.1*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:10*	*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	0.176	U	0.401	0.401	5.00	0.635	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15006

Date Collected: 04/23/25 11:28
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-9

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.109	U	0.208	0.208	1.00	0.371	pCi/L	05/06/25 07:36	06/02/25 16:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.6*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:25*	*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	0.428	U	0.414	0.415	1.00	0.662	pCi/L	05/06/25 07:40	06/02/25 12:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.6*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:11*	*1*
Y Carrier	*78.9*		*30 - 110*	*05/06/25 07:40*	*06/02/25 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	0.537	U	0.463	0.464	5.00	0.662	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15008

Date Collected: 04/23/25 12:34
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-10

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.102	U	0.192	0.192	1.00	0.342	pCi/L	05/06/25 07:36	06/02/25 16:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:26*	*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	0.409	0.411	1.00	0.663	pCi/L	05/06/25 07:40	06/02/25 12:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:11*	*1*
Y Carrier	*82.6*		*30 - 110*	*05/06/25 07:40*	*06/02/25 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	0.503	U	0.452	0.454	5.00	0.663	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15007

Date Collected: 04/23/25 13:48
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-11

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.368	U	0.322	0.324	1.00	0.476	pCi/L	05/06/25 07:36	06/02/25 16:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.6*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:26*	*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	0.199	U	0.516	0.516	1.00	0.917	pCi/L	05/06/25 07:40	06/02/25 12:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.6*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:11*	*1*
Y Carrier	*76.3*		*30 - 110*	*05/06/25 07:40*	*06/02/25 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	0.567	U	0.608	0.609	5.00	0.917	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15009

Date Collected: 04/23/25 14:58
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-12

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0959	U	0.214	0.214	1.00	0.390	pCi/L	05/06/25 07:36	06/02/25 16:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.1*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:26*	*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	-0.0110	U	0.370	0.370	1.00	0.694	pCi/L	05/06/25 07:40	06/02/25 12:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.1*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:11*	*1*
Y Carrier	*80.0*		*30 - 110*	*05/06/25 07:40*	*06/02/25 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	0.0959	U	0.427	0.427	5.00	0.694	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15022

Date Collected: 04/23/25 16:02
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-13

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.273	U	0.225	0.226	1.00	0.327	pCi/L	05/06/25 07:36	06/02/25 16:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.3*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:26*	*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	0.371	U	0.387	0.389	1.00	0.628	pCi/L	05/06/25 07:40	06/02/25 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.3*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:13*	*1*
Y Carrier	*78.9*		*30 - 110*	*05/06/25 07:40*	*06/02/25 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	**0.644**		0.448	0.450	5.00	0.628	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15021

Date Collected: 04/23/25 17:00
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-14

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.578**		0.332	0.336	1.00	0.398	pCi/L	05/06/25 07:36	06/02/25 16:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:27*	*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	**0.879**		0.570	0.576	1.00	0.848	pCi/L	05/06/25 07:40	06/02/25 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:13*	*1*
Y Carrier	*78.9*		*30 - 110*	*05/06/25 07:40*	*06/02/25 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	**1.46**		0.660	0.667	5.00	0.848	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-17001R

Lab Sample ID: 810-146319-15

Date Collected: 04/24/25 10:05

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	0.556		0.337	0.341	1.00	0.433	pCi/L	05/06/25 07:36	06/02/25 16:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:32*	*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	0.625	U	0.505	0.508	1.00	0.781	pCi/L	05/06/25 07:40	06/02/25 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:13*	*1*
Y Carrier	*77.8*		*30 - 110*	*05/06/25 07:40*	*06/02/25 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	1.18		0.607	0.612	5.00	0.781	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15016R

Lab Sample ID: 810-146319-16

Date Collected: 04/24/25 11:00

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	1.51		0.533	0.550	1.00	0.583	pCi/L	05/06/25 07:36	06/02/25 16:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:32*	*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	2.68		0.730	0.770	1.00	0.804	pCi/L	05/06/25 07:40	06/02/25 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*1*
Y Carrier	*79.6*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*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	4.19		0.904	0.946	5.00	0.804	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15015R

Date Collected: 04/24/25 12:50
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-17

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.150	U	0.233	0.234	1.00	0.402	pCi/L	05/06/25 07:36	06/02/25 16:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:32*	*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	0.531	U	0.421	0.423	1.00	0.654	pCi/L	05/06/25 07:40	06/02/25 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*1*
Y Carrier	*78.5*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*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	**0.681**		0.481	0.483	5.00	0.654	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15014R

Date Collected: 04/24/25 14:05
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-18

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.300	U	0.262	0.263	1.00	0.402	pCi/L	05/06/25 07:36	06/02/25 16:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:32*	*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	0.131	U	0.324	0.324	1.00	0.574	pCi/L	05/06/25 07:40	06/02/25 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*1*
Y Carrier	*77.0*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*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	0.431	U	0.417	0.417	5.00	0.574	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15013

Date Collected: 04/24/25 08:50
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-19

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0625	U	0.258	0.259	1.00	0.487	pCi/L	05/06/25 07:36	06/02/25 16:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.3*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:32*	*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	0.415	0.416	1.00	0.674	pCi/L	05/06/25 07:40	06/02/25 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.3*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*1*
Y Carrier	*83.4*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*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	0.447	U	0.489	0.490	5.00	0.674	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15004

Date Collected: 04/24/25 10:00
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-20

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0466	U	0.219	0.219	1.00	0.437	pCi/L	05/06/25 07:36	06/02/25 16:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.1*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:32*	*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	-0.137	U	0.457	0.458	1.00	0.889	pCi/L	05/06/25 07:40	06/02/25 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.1*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*1*
Y Carrier	*80.4*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*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	0.0466	U	0.507	0.508	5.00	0.889	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15003

Date Collected: 04/24/25 11:10
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-21

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.339	U	0.388	0.389	1.00	0.633	pCi/L	05/06/25 07:36	06/02/25 16:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.1*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:32*	*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	0.690	U	0.543	0.547	1.00	0.845	pCi/L	05/06/25 07:40	06/02/25 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.1*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*1*
Y Carrier	*84.1*		*30 - 110*	*05/06/25 07:40*	*06/02/25 12:14*	*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	**1.03**		0.667	0.671	5.00	0.845	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15002

Date Collected: 04/24/25 12:10
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-22

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.556**		0.276	0.280	1.00	0.320	pCi/L	05/06/25 07:42	06/02/25 09:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*30 - 110*	*05/06/25 07:42*	*06/02/25 09:41*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.56**		0.646	0.662	1.00	0.839	pCi/L	05/06/25 07:50	06/01/25 10:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:24*	*1*
Y Carrier	*72.9*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:24*	*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	**2.12**		0.702	0.719	5.00	0.839	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-17006

Lab Sample ID: 810-146319-23

Date Collected: 04/24/25 13:50

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	0.0124	U	0.153	0.153	1.00	0.301	pCi/L	05/06/25 07:42	06/02/25 09:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*05/06/25 07:42*	*06/02/25 09:41*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.729**		0.414	0.419	1.00	0.588	pCi/L	05/06/25 07:50	06/01/25 10:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:26*	*1*
Y Carrier	*74.4*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:26*	*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	**0.741**		0.441	0.446	5.00	0.588	pCi/L		06/02/25 16:25	1

Client Sample ID: MW-15023

Lab Sample ID: 810-146319-24

Date Collected: 04/22/25 09:40

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	**0.567**		0.290	0.295	1.00	0.358	pCi/L	05/06/25 07:42	06/02/25 09:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*05/06/25 07:42*	*06/02/25 09:41*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.71**		0.760	0.800	1.00	0.872	pCi/L	05/06/25 07:50	06/01/25 10:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:26*	*1*
Y Carrier	*76.3*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:26*	*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	**3.28**		0.813	0.853	5.00	0.872	pCi/L		06/03/25 11:57	1

Client Sample ID: MW-15020

Date Collected: 04/22/25 11:20
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-25

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.504		0.302	0.305	1.00	0.416	pCi/L	05/06/25 07:42	06/02/25 09:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*05/06/25 07:42*	*06/02/25 09:41*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.64		0.620	0.639	1.00	0.805	pCi/L	05/06/25 07:50	06/01/25 10:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:26*	*1*
Y Carrier	*80.0*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:26*	*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	2.15		0.690	0.708	5.00	0.805	pCi/L		06/03/25 11:57	1

Client Sample ID: MW-17005

Date Collected: 04/22/25 12:50
Date Received: 04/28/25 09:00

Lab Sample ID: 810-146319-26

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.295		0.195	0.197	1.00	0.266	pCi/L	05/06/25 07:42	06/02/25 09:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*30 - 110*	*05/06/25 07:42*	*06/02/25 09:41*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.07		0.472	0.482	1.00	0.628	pCi/L	05/06/25 07:50	06/01/25 10:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:26*	*1*
Y Carrier	*74.4*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:26*	*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	1.37		0.511	0.521	5.00	0.628	pCi/L		06/03/25 11:57	1

Client Sample ID: MW-15010

Lab Sample ID: 810-146319-27

Date Collected: 04/22/25 11:48

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	0.223	U	0.177	0.178	1.00	0.257	pCi/L	05/06/25 07:42	06/02/25 09:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*30 - 110*	*05/06/25 07:42*	*06/02/25 09:41*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.576**		0.389	0.393	1.00	0.576	pCi/L	05/06/25 07:50	06/01/25 10:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:27*	*1*
Y Carrier	*73.6*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:27*	*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	**0.800**		0.427	0.431	5.00	0.576	pCi/L		06/03/25 11:57	1

Client Sample ID: MWT-15010

Lab Sample ID: 810-146319-28

Date Collected: 04/22/25 11:48

Matrix: Ground Water

Date Received: 04/28/25 09:00

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	**0.591**		0.239	0.245	1.00	0.250	pCi/L	05/06/25 07:42	06/02/25 09:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.3*		*30 - 110*	*05/06/25 07:42*	*06/02/25 09:42*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.916**		0.464	0.472	1.00	0.652	pCi/L	05/06/25 07:50	06/01/25 10:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.3*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:27*	*1*
Y Carrier	*75.5*		*30 - 110*	*05/06/25 07:50*	*06/01/25 10:27*	*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	**1.51**		0.522	0.532	5.00	0.652	pCi/L		06/03/25 11:57	1

Tracer/Carrier Summary

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Ground Water | **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Ba (30-110)
810-146319-1	MW-17004	85.6
810-146319-1 DU	MW-17004	83.1
810-146319-2	MW-15019	78.9
810-146319-3	MW-17003	88.1
810-146319-4	MW-15018	86.3
810-146319-5	MW-15017	93.0
810-146319-6	MW-17002	74.1
810-146319-7	MW-15005	84.6
810-146319-8	MWT-15005	80.3
810-146319-9	MW-15006	77.6
810-146319-10	MW-15008	88.3
810-146319-11	MW-15007	72.6
810-146319-12	MW-15009	76.1
810-146319-13	MW-15022	82.3
810-146319-14	MW-15021	82.6
810-146319-15	MW-17001R	84.6
810-146319-16	MW-15016R	86.8
810-146319-17	MW-15015R	84.6
810-146319-18	MW-15014R	90.3
810-146319-19	MW-15013	93.3
810-146319-20	MW-15004	81.1
810-146319-21	MW-15003	87.1
810-146319-22	MW-15002	82.6
810-146319-23	MW-17006	83.1
810-146319-24	MW-15023	83.1
810-146319-25	MW-15020	88.3
810-146319-26	MW-17005	81.8
810-146319-27	MW-15010	83.8
810-146319-28	MWT-15010	82.3

Tracer/Carrier Legend

Ba = Ba Carrier

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)
LCS 160-716176/2-A	Lab Control Sample	87.6
LCS 160-716178/2-A	Lab Control Sample	86.6
LCS 160-716338/2-A	Lab Control Sample	87.8
LCSD 160-716338/3-A	Lab Control Sample Dup	90.5
MB 160-716176/1-A	Method Blank	89.3
MB 160-716178/1-A	Method Blank	84.3
MB 160-716338/1-A	Method Blank	89.1

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: Trace Analytical Laboratories
Job ID: 810-146319-1
Project/Site: 25D1772

Method: 904.0 - Radium-228 (GFPC)

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
810-146319-1	MW-17004	85.6	77.0
810-146319-1 DU	MW-17004	83.1	80.0
810-146319-2	MW-15019	78.9	82.6
810-146319-3	MW-17003	88.1	84.1
810-146319-4	MW-15018	86.3	76.6
810-146319-5	MW-15017	93.0	78.9
810-146319-6	MW-17002	74.1	74.8
810-146319-7	MW-15005	84.6	75.9
810-146319-8	MWT-15005	80.3	81.1
810-146319-9	MW-15006	77.6	78.9
810-146319-10	MW-15008	88.3	82.6
810-146319-11	MW-15007	72.6	76.3
810-146319-12	MW-15009	76.1	80.0
810-146319-13	MW-15022	82.3	78.9
810-146319-14	MW-15021	82.6	78.9
810-146319-15	MW-17001R	84.6	77.8
810-146319-16	MW-15016R	86.8	79.6
810-146319-17	MW-15015R	84.6	78.5
810-146319-18	MW-15014R	90.3	77.0
810-146319-19	MW-15013	93.3	83.4
810-146319-20	MW-15004	81.1	80.4
810-146319-21	MW-15003	87.1	84.1
810-146319-22	MW-15002	82.6	72.9
810-146319-23	MW-17006	83.1	74.4
810-146319-24	MW-15023	83.1	76.3
810-146319-25	MW-15020	88.3	80.0
810-146319-26	MW-17005	81.8	74.4
810-146319-27	MW-15010	83.8	73.6
810-146319-28	MWT-15010	82.3	75.5

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y 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)
LCS 160-716177/2-A	Lab Control Sample	87.6	77.4
LCS 160-716180/2-A	Lab Control Sample	86.6	79.3
LCS 160-716340/2-A	Lab Control Sample	87.8	76.6
LCSD 160-716340/3-A	Lab Control Sample Dup	90.5	78.5
MB 160-716177/1-A	Method Blank	89.3	78.9
MB 160-716180/1-A	Method Blank	84.3	79.6
MB 160-716340/1-A	Method Blank	89.1	77.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-716176/1-A
Matrix: Water
Analysis Batch: 720203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716176

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.1095	U	0.159	0.159	1.00	0.374	pCi/L	05/06/25 07:36	06/02/25 16:24	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*05/06/25 07:36*	*06/02/25 16:24*	*1*

Lab Sample ID: LCS 160-716176/2-A
Matrix: Water
Analysis Batch: 720203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716176

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	8.049		1.13	1.00	0.351	pCi/L	84	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*87.6*		*30 - 110*

Lab Sample ID: 810-146319-1 DU
Matrix: Ground Water
Analysis Batch: 720203

Client Sample ID: MW-17004
Prep Type: Total/NA
Prep Batch: 716176

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.261	U		-0.00713 3	U	0.200	1.00	0.403	pCi/L			0.64	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*83.1*		*30 - 110*

Lab Sample ID: MB 160-716178/1-A
Matrix: Water
Analysis Batch: 720203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716178

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02039	U	0.165	0.165	1.00	0.335	pCi/L	05/06/25 07:42	06/02/25 07:47	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.3*		*30 - 110*	*05/06/25 07:42*	*06/02/25 07:47*	*1*

Lab Sample ID: LCS 160-716178/2-A
Matrix: Water
Analysis Batch: 720203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716178

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	10.54		1.30	1.00	0.263	pCi/L	110	75 - 125		

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

Lab Sample ID: LCS 160-716178/2-A
Matrix: Water
Analysis Batch: 720203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716178

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	86.6		30 - 110

Lab Sample ID: MB 160-716338/1-A
Matrix: Water
Analysis Batch: 720203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716338

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.008723	U	0.0917	0.0917	1.00	0.187	pCi/L	05/07/25 07:48	06/02/25 14:49	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110	05/07/25 07:48	06/02/25 14:49	1

Lab Sample ID: LCS 160-716338/2-A
Matrix: Water
Analysis Batch: 720201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716338

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	9.252		1.11	1.00	0.252	pCi/L	97	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.8		30 - 110

Lab Sample ID: LCSD 160-716338/3-A
Matrix: Water
Analysis Batch: 720201

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 716338

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			9.58	8.066		0.988	1.00	0.197	pCi/L	84	75 - 125	0.57	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	90.5		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-716177/1-A
Matrix: Water
Analysis Batch: 720381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716177

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5739		0.368	0.372	1.00	0.538	pCi/L	05/06/25 07:40	06/02/25 12:11	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110	05/06/25 07:40	06/02/25 12:11	1

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

Lab Sample ID: MB 160-716177/1-A
Matrix: Water
Analysis Batch: 720381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716177

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	78.9		30 - 110	05/06/25 07:40	06/02/25 12:11	1

Lab Sample ID: LCS 160-716177/2-A
Matrix: Water
Analysis Batch: 720381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716177

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.39	11.76		1.56	1.00	0.535	pCi/L	125	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.6		30 - 110
Y Carrier	77.4		30 - 110

Lab Sample ID: 810-146319-1 DU
Matrix: Ground Water
Analysis Batch: 720202

Client Sample ID: MW-17004
Prep Type: Total/NA
Prep Batch: 716177

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.332	U		0.3232	U	0.340	1.00	0.547	pCi/L			0.01	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	83.1		30 - 110
Y Carrier	80.0		30 - 110

Lab Sample ID: MB 160-716180/1-A
Matrix: Water
Analysis Batch: 720153

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716180

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.7566		0.401	0.407	1.00	0.562	pCi/L	05/06/25 07:50	06/01/25 10:24	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		30 - 110	05/06/25 07:50	06/01/25 10:24	1
Y Carrier	79.6		30 - 110	05/06/25 07:50	06/01/25 10:24	1

Lab Sample ID: LCS 160-716180/2-A
Matrix: Water
Analysis Batch: 720153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716180

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.39	11.96		1.55	1.00	0.517	pCi/L	127	75 - 125		

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

Lab Sample ID: LCS 160-716180/2-A
Matrix: Water
Analysis Batch: 720153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716180

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	86.6		30 - 110
Y Carrier	79.3		30 - 110

Lab Sample ID: MB 160-716340/1-A
Matrix: Water
Analysis Batch: 720104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716340

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.2313	U	0.281	0.282	1.00	0.595	pCi/L	05/07/25 07:52	05/30/25 13:55	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110	05/07/25 07:52	05/30/25 13:55	1
Y Carrier	77.4		30 - 110	05/07/25 07:52	05/30/25 13:55	1

Lab Sample ID: LCS 160-716340/2-A
Matrix: Water
Analysis Batch: 720104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716340

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.40	10.46		1.44	1.00	0.638	pCi/L	111	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.8		30 - 110
Y Carrier	76.6		30 - 110

Lab Sample ID: LCSD 160-716340/3-A
Matrix: Water
Analysis Batch: 720104

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 716340

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228			9.40	10.01		1.38	1.00	0.554	pCi/L	106	75 - 125	0.16	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	90.5		30 - 110
Y Carrier	78.5		30 - 110

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Prep Batch: 716176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-146319-1	MW-17004	Total/NA	Ground Water	PrecSep-21	
810-146319-2	MW-15019	Total/NA	Ground Water	PrecSep-21	
810-146319-3	MW-17003	Total/NA	Ground Water	PrecSep-21	
810-146319-4	MW-15018	Total/NA	Ground Water	PrecSep-21	
810-146319-5	MW-15017	Total/NA	Ground Water	PrecSep-21	
810-146319-6	MW-17002	Total/NA	Ground Water	PrecSep-21	
810-146319-8	MWT-15005	Total/NA	Ground Water	PrecSep-21	
810-146319-9	MW-15006	Total/NA	Ground Water	PrecSep-21	
810-146319-10	MW-15008	Total/NA	Ground Water	PrecSep-21	
810-146319-11	MW-15007	Total/NA	Ground Water	PrecSep-21	
810-146319-12	MW-15009	Total/NA	Ground Water	PrecSep-21	
810-146319-13	MW-15022	Total/NA	Ground Water	PrecSep-21	
810-146319-14	MW-15021	Total/NA	Ground Water	PrecSep-21	
810-146319-15	MW-17001R	Total/NA	Ground Water	PrecSep-21	
810-146319-16	MW-15016R	Total/NA	Ground Water	PrecSep-21	
810-146319-17	MW-15015R	Total/NA	Ground Water	PrecSep-21	
810-146319-18	MW-15014R	Total/NA	Ground Water	PrecSep-21	
810-146319-19	MW-15013	Total/NA	Ground Water	PrecSep-21	
810-146319-20	MW-15004	Total/NA	Ground Water	PrecSep-21	
810-146319-21	MW-15003	Total/NA	Ground Water	PrecSep-21	
MB 160-716176/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-716176/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
810-146319-1 DU	MW-17004	Total/NA	Ground Water	PrecSep-21	

Prep Batch: 716177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-146319-1	MW-17004	Total/NA	Ground Water	PrecSep_0	
810-146319-2	MW-15019	Total/NA	Ground Water	PrecSep_0	
810-146319-3	MW-17003	Total/NA	Ground Water	PrecSep_0	
810-146319-4	MW-15018	Total/NA	Ground Water	PrecSep_0	
810-146319-5	MW-15017	Total/NA	Ground Water	PrecSep_0	
810-146319-6	MW-17002	Total/NA	Ground Water	PrecSep_0	
810-146319-8	MWT-15005	Total/NA	Ground Water	PrecSep_0	
810-146319-9	MW-15006	Total/NA	Ground Water	PrecSep_0	
810-146319-10	MW-15008	Total/NA	Ground Water	PrecSep_0	
810-146319-11	MW-15007	Total/NA	Ground Water	PrecSep_0	
810-146319-12	MW-15009	Total/NA	Ground Water	PrecSep_0	
810-146319-13	MW-15022	Total/NA	Ground Water	PrecSep_0	
810-146319-14	MW-15021	Total/NA	Ground Water	PrecSep_0	
810-146319-15	MW-17001R	Total/NA	Ground Water	PrecSep_0	
810-146319-16	MW-15016R	Total/NA	Ground Water	PrecSep_0	
810-146319-17	MW-15015R	Total/NA	Ground Water	PrecSep_0	
810-146319-18	MW-15014R	Total/NA	Ground Water	PrecSep_0	
810-146319-19	MW-15013	Total/NA	Ground Water	PrecSep_0	
810-146319-20	MW-15004	Total/NA	Ground Water	PrecSep_0	
810-146319-21	MW-15003	Total/NA	Ground Water	PrecSep_0	
MB 160-716177/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-716177/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
810-146319-1 DU	MW-17004	Total/NA	Ground Water	PrecSep_0	

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Rad

Prep Batch: 716178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-146319-22	MW-15002	Total/NA	Ground Water	PrecSep-21	
810-146319-23	MW-17006	Total/NA	Ground Water	PrecSep-21	
810-146319-24	MW-15023	Total/NA	Ground Water	PrecSep-21	
810-146319-25	MW-15020	Total/NA	Ground Water	PrecSep-21	
810-146319-26	MW-17005	Total/NA	Ground Water	PrecSep-21	
810-146319-27	MW-15010	Total/NA	Ground Water	PrecSep-21	
810-146319-28	MWT-15010	Total/NA	Ground Water	PrecSep-21	
MB 160-716178/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-716178/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 716180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-146319-22	MW-15002	Total/NA	Ground Water	PrecSep_0	
810-146319-23	MW-17006	Total/NA	Ground Water	PrecSep_0	
810-146319-24	MW-15023	Total/NA	Ground Water	PrecSep_0	
810-146319-25	MW-15020	Total/NA	Ground Water	PrecSep_0	
810-146319-26	MW-17005	Total/NA	Ground Water	PrecSep_0	
810-146319-27	MW-15010	Total/NA	Ground Water	PrecSep_0	
810-146319-28	MWT-15010	Total/NA	Ground Water	PrecSep_0	
MB 160-716180/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-716180/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 716338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-146319-7	MW-15005	Total/NA	Ground Water	PrecSep-21	
MB 160-716338/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-716338/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-716338/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 716340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-146319-7	MW-15005	Total/NA	Ground Water	PrecSep_0	
MB 160-716340/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-716340/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-716340/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Client Sample ID: MW-17004

Lab Sample ID: 810-146319-1

Date Collected: 04/23/25 10:15

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720203	SCB	EET SL	06/02/25 16:24
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720202	SWS	EET SL	06/02/25 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11

Client Sample ID: MW-15019

Lab Sample ID: 810-146319-2

Date Collected: 04/23/25 11:40

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:24
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720202	SWS	EET SL	06/02/25 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11

Client Sample ID: MW-17003

Lab Sample ID: 810-146319-3

Date Collected: 04/23/25 12:45

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:24
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720202	SWS	EET SL	06/02/25 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11

Client Sample ID: MW-15018

Lab Sample ID: 810-146319-4

Date Collected: 04/23/25 14:00

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:24
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720202	SWS	EET SL	06/02/25 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Client Sample ID: MW-15017

Lab Sample ID: 810-146319-5

Date Collected: 04/23/25 15:45

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:24
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720202	SWS	EET SL	06/02/25 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-17002

Lab Sample ID: 810-146319-6

Date Collected: 04/23/25 17:05

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:25
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720202	SWS	EET SL	06/02/25 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-15005

Lab Sample ID: 810-146319-7

Date Collected: 04/23/25 09:52

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716338	OGC	EET SL	05/07/25 07:48
Total/NA	Analysis	903.0		1	720200	SWS	EET SL	06/01/25 13:17
Total/NA	Prep	PrecSep_0			716340	OGC	EET SL	05/07/25 07:52
Total/NA	Analysis	904.0		1	720103	SWS	EET SL	05/30/25 13:54
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MWT-15005

Lab Sample ID: 810-146319-8

Date Collected: 04/23/25 09:52

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:25
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720202	SWS	EET SL	06/02/25 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Client Sample ID: MW-15006

Lab Sample ID: 810-146319-9

Date Collected: 04/23/25 11:28

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:25
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720202	SWS	EET SL	06/02/25 12:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-15008

Lab Sample ID: 810-146319-10

Date Collected: 04/23/25 12:34

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:26
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720202	SWS	EET SL	06/02/25 12:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-15007

Lab Sample ID: 810-146319-11

Date Collected: 04/23/25 13:48

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:26
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720202	SWS	EET SL	06/02/25 12:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-15009

Lab Sample ID: 810-146319-12

Date Collected: 04/23/25 14:58

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:26
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720202	SWS	EET SL	06/02/25 12:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Client Sample ID: MW-15022

Lab Sample ID: 810-146319-13

Date Collected: 04/23/25 16:02

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:26
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720203	SCB	EET SL	06/02/25 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-15021

Lab Sample ID: 810-146319-14

Date Collected: 04/23/25 17:00

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:27
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720203	SCB	EET SL	06/02/25 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-17001R

Lab Sample ID: 810-146319-15

Date Collected: 04/24/25 10:05

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720202	SWS	EET SL	06/02/25 16:32
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720203	SCB	EET SL	06/02/25 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-15016R

Lab Sample ID: 810-146319-16

Date Collected: 04/24/25 11:00

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720202	SWS	EET SL	06/02/25 16:32
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720203	SCB	EET SL	06/02/25 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Client Sample ID: MW-15015R

Lab Sample ID: 810-146319-17

Date Collected: 04/24/25 12:50
Date Received: 04/28/25 09:00

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720202	SWS	EET SL	06/02/25 16:32
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720203	SCB	EET SL	06/02/25 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-15014R

Lab Sample ID: 810-146319-18

Date Collected: 04/24/25 14:05
Date Received: 04/28/25 09:00

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720202	SWS	EET SL	06/02/25 16:32
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720203	SCB	EET SL	06/02/25 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-15013

Lab Sample ID: 810-146319-19

Date Collected: 04/24/25 08:50
Date Received: 04/28/25 09:00

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720203	SCB	EET SL	06/02/25 16:32
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720203	SCB	EET SL	06/02/25 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-15004

Lab Sample ID: 810-146319-20

Date Collected: 04/24/25 10:00
Date Received: 04/28/25 09:00

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 16:32
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720203	SCB	EET SL	06/02/25 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Client Sample ID: MW-15003

Lab Sample ID: 810-146319-21

Date Collected: 04/24/25 11:10

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716176	OGC	EET SL	05/06/25 07:36
Total/NA	Analysis	903.0		1	720202	SWS	EET SL	06/02/25 16:32
Total/NA	Prep	PrecSep_0			716177	OGC	EET SL	05/06/25 07:40
Total/NA	Analysis	904.0		1	720203	SCB	EET SL	06/02/25 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-15002

Lab Sample ID: 810-146319-22

Date Collected: 04/24/25 12:10

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716178	OGC	EET SL	05/06/25 07:42
Total/NA	Analysis	903.0		1	720203	SCB	EET SL	06/02/25 09:41
Total/NA	Prep	PrecSep_0			716180	OGC	EET SL	05/06/25 07:50
Total/NA	Analysis	904.0		1	720153	SWS	EET SL	06/01/25 10:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-17006

Lab Sample ID: 810-146319-23

Date Collected: 04/24/25 13:50

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716178	OGC	EET SL	05/06/25 07:42
Total/NA	Analysis	903.0		1	720203	SCB	EET SL	06/02/25 09:41
Total/NA	Prep	PrecSep_0			716180	OGC	EET SL	05/06/25 07:50
Total/NA	Analysis	904.0		1	720153	SWS	EET SL	06/01/25 10:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 16:25

Client Sample ID: MW-15023

Lab Sample ID: 810-146319-24

Date Collected: 04/22/25 09:40

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716178	OGC	EET SL	05/06/25 07:42
Total/NA	Analysis	903.0		1	720203	SCB	EET SL	06/02/25 09:41
Total/NA	Prep	PrecSep_0			716180	OGC	EET SL	05/06/25 07:50
Total/NA	Analysis	904.0		1	720153	SWS	EET SL	06/01/25 10:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/03/25 11:57

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Client Sample ID: MW-15020

Lab Sample ID: 810-146319-25

Date Collected: 04/22/25 11:20

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716178	OGC	EET SL	05/06/25 07:42
Total/NA	Analysis	903.0		1	720203	SCB	EET SL	06/02/25 09:41
Total/NA	Prep	PrecSep_0			716180	OGC	EET SL	05/06/25 07:50
Total/NA	Analysis	904.0		1	720153	SWS	EET SL	06/01/25 10:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/03/25 11:57

Client Sample ID: MW-17005

Lab Sample ID: 810-146319-26

Date Collected: 04/22/25 12:50

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716178	OGC	EET SL	05/06/25 07:42
Total/NA	Analysis	903.0		1	720203	SCB	EET SL	06/02/25 09:41
Total/NA	Prep	PrecSep_0			716180	OGC	EET SL	05/06/25 07:50
Total/NA	Analysis	904.0		1	720153	SWS	EET SL	06/01/25 10:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/03/25 11:57

Client Sample ID: MW-15010

Lab Sample ID: 810-146319-27

Date Collected: 04/22/25 11:48

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716178	OGC	EET SL	05/06/25 07:42
Total/NA	Analysis	903.0		1	720203	SCB	EET SL	06/02/25 09:41
Total/NA	Prep	PrecSep_0			716180	OGC	EET SL	05/06/25 07:50
Total/NA	Analysis	904.0		1	720153	SWS	EET SL	06/01/25 10:27
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/03/25 11:57

Client Sample ID: MWT-15010

Lab Sample ID: 810-146319-28

Date Collected: 04/22/25 11:48

Matrix: Ground Water

Date Received: 04/28/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			716178	OGC	EET SL	05/06/25 07:42
Total/NA	Analysis	903.0		1	720381	SWS	EET SL	06/02/25 09:42
Total/NA	Prep	PrecSep_0			716180	OGC	EET SL	05/06/25 07:50
Total/NA	Analysis	904.0		1	720153	SWS	EET SL	06/01/25 10:27
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/03/25 11:57

Laboratory References:

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

Accreditation/Certification Summary

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-27
ANAB	Dept. of Defense ELAP	L2305	04-06-27
ANAB	Dept. of Energy	L2305.01	04-06-27
ANAB	ISO/IEC 17025	L2305	04-06-27
Arizona	State	AZ0813	12-08-25
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-27
Florida	NELAP	E87689	06-30-25
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	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

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

Method Summary

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

Client: Trace Analytical Laboratories
Project/Site: 25D1772

Job ID: 810-146319-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-146319-1	MW-17004	Ground Water	04/23/25 10:15	04/28/25 09:00
810-146319-2	MW-15019	Ground Water	04/23/25 11:40	04/28/25 09:00
810-146319-3	MW-17003	Ground Water	04/23/25 12:45	04/28/25 09:00
810-146319-4	MW-15018	Ground Water	04/23/25 14:00	04/28/25 09:00
810-146319-5	MW-15017	Ground Water	04/23/25 15:45	04/28/25 09:00
810-146319-6	MW-17002	Ground Water	04/23/25 17:05	04/28/25 09:00
810-146319-7	MW-15005	Ground Water	04/23/25 09:52	04/28/25 09:00
810-146319-8	MWT-15005	Ground Water	04/23/25 09:52	04/28/25 09:00
810-146319-9	MW-15006	Ground Water	04/23/25 11:28	04/28/25 09:00
810-146319-10	MW-15008	Ground Water	04/23/25 12:34	04/28/25 09:00
810-146319-11	MW-15007	Ground Water	04/23/25 13:48	04/28/25 09:00
810-146319-12	MW-15009	Ground Water	04/23/25 14:58	04/28/25 09:00
810-146319-13	MW-15022	Ground Water	04/23/25 16:02	04/28/25 09:00
810-146319-14	MW-15021	Ground Water	04/23/25 17:00	04/28/25 09:00
810-146319-15	MW-17001R	Ground Water	04/24/25 10:05	04/28/25 09:00
810-146319-16	MW-15016R	Ground Water	04/24/25 11:00	04/28/25 09:00
810-146319-17	MW-15015R	Ground Water	04/24/25 12:50	04/28/25 09:00
810-146319-18	MW-15014R	Ground Water	04/24/25 14:05	04/28/25 09:00
810-146319-19	MW-15013	Ground Water	04/24/25 08:50	04/28/25 09:00
810-146319-20	MW-15004	Ground Water	04/24/25 10:00	04/28/25 09:00
810-146319-21	MW-15003	Ground Water	04/24/25 11:10	04/28/25 09:00
810-146319-22	MW-15002	Ground Water	04/24/25 12:10	04/28/25 09:00
810-146319-23	MW-17006	Ground Water	04/24/25 13:50	04/28/25 09:00
810-146319-24	MW-15023	Ground Water	04/22/25 09:40	04/28/25 09:00
810-146319-25	MW-15020	Ground Water	04/22/25 11:20	04/28/25 09:00
810-146319-26	MW-17005	Ground Water	04/22/25 12:50	04/28/25 09:00
810-146319-27	MW-15010	Ground Water	04/22/25 11:48	04/28/25 09:00
810-146319-28	MWT-15010	Ground Water	04/22/25 11:48	04/28/25 09:00

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810-146319 Chain of Custody

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # _____

Batch # _____

6/3/2025

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CHAIN OF CUSTODY RECORD

Page _____ of _____

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REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998			MI	25D1772	25D1772
BILL TO: Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444	COMPLIANCE MONITORING: Yes = x, No =	POPULATION SERVED	SOURCE WATER		

LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	04/23/25	10:15	x		MW-17004	Radium 226/228				1	GW	SW
2	04/23/25	11:40	x		MW-15019	Radium 226/228				1	GW	SW
3	04/23/25	12:45		x	MW-17003	Radium 226/228				1	GW	SW
4	04/23/25	14:00		x	MW-15018	Radium 226/228				1	GW	SW
5	04/23/25	15:45		x	MW-15017	Radium 226/228				1	GW	SW
6	04/23/25	17:05		x	MW-17002	Radium 226/228				1	GW	SW
7	04/23/25	9:52	x		MW-15005	Radium 226/228				1	GW	SW
8	04/23/25	9:52	x		MWT-15005	Radium 226/228				1	GW	SW
9	04/23/25	11:28	x		MW-15006	Radium 226/228				1	GW	SW
10	04/23/25	12:34		x	MW-15008	Radium 226/228				1	GW	SW
11	04/23/25	13:48		x	MW-15007	Radium 226/228				1	GW	SW
12	04/23/25	14:58		x	MW-15009	Radium 226/228				1	GW	SW
13	04/23/25	16:02		x	MW-15022	Radium 226/228				1	GW	SW
14	04/23/25	17:00		x	MW-15021	Radium 226/228				1	GW	SW

pH Acceptable SR

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
MA	4/25/25	17:00 AM PM	Fedex		AM PM
RELINQUISHED BY:(Signature) Fedex	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY: Heather Mogle	DATE 04/28/2025	TIME 0900 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS: Ambient

CONDITIONS UPON RECEIPT (check one): ___ Iced: Wet/Blue ___ Ambient _____ °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days)	0%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

*** Please call, expedited service not available for all testing**

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order #

Batch # _____

6/3/2025

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CHAIN OF CUSTODY RECORD

Page _____ of _____

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REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998			MI	25D1772	25D1772
BILL TO: Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444	COMPLIANCE MONITORING: Yes x / No	POPULATION SERVED	SOURCE WATER		

LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	04/24/25	10:05	X		MW-17001R	Radium 226/228				1	GW	SW
2	04/24/25	11:00	X		MW-15016R	Radium 226/228				1	GW	SW
3	04/24/25	12:50		X	MW-15015R	Radium 226/228				1	GW	SW
4	04/24/25	14:05		X	MW-15014R	Radium 226/228				1	GW	SW
5	04/24/25	8:50	X		MW-15013	Radium 226/228				1	GW	SW
6	04/24/25	10:00	X		MW-15004	Radium 226/228				1	GW	SW
7	04/24/25	11:10	X		MW-15003	Radium 226/228				1	GW	SW
8	04/24/25	12:10		X	MW-15002	Radium 226/228				1	GW	SW
9	04/24/25	13:50		X	MW-17006	Radium 226/228				1	GW	SW
10												
11												
12												
13												
14												

pH Acceptable

Page 41 of 49

RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
[signature]	4/25/25	17:00	Fedex		
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
Fedex					
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY: [signature]	DATE 04/28/2025	TIME 0900 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS: Ambient

CONDITIONS UPON RECEIPT (check one): ___ Iced: Wet/Blue ___ Ambient ___ °C Upon Receipt___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
RV* = Rush Verbal: (5 working days) 50%
RW* = Rush Written: (5 working days) 75%
IV* = Immediate Verbal: (3 working days) 100%
IW* =Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

eurofins | Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order #

Batch # _____

6/3/2025

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CHAIN OF CUSTODY RECORD

Page _____ of _____

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998			MI	25D1772	25D1772
BILL TO: Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444	COMPLIANCE MONITORING: Yes = X, No =	POPULATION SERVED	SOURCE WATER		

LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	04/22/25	9:40	X		MW-15023	RADIUM 226/228						SW
2	04/22/25	11:20	X		MW-15020	RADIUM 226/228						
3	04/22/25	12:50		X	MW-17005	RADIUM 226/228						
4	04/22/25	11:48	X		MW-15010	RADIUM 226/228						
5	04/22/25	11:48	X		MWT-15010	RADIUM 226/228						
6												
7												
8												
9												
10												
11												
12												
13												
14												

PH Acceptable

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
CM	04.23.25	10:00 AM PM	Fedex		AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
Fedex		AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM		04/28/25	0900 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

Ambient

CONDITIONS UPON RECEIPT (check one):

____ Iced: Wet/Blue ____ Ambient _____ °C Upon Receipt____ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days)	0%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* = Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

*** Please call, expedited service not available for all testing**

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

Eurofins Eaton Analytical South Bend
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fullmer, Karen	Carrier Tracking No(s): N/A	COC No: 810-55180.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Karen.Fullmer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Michigan		Job #: 810-146319-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 6/2/2025			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: 25D1772	Project #: 81000263			
Site: N/A	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=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226_228GFPC_P/Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-17004 (810-146319-1)	4/23/25	10:15 Eastern	G	Water			X	1	
MW-15019 (810-146319-2)	4/23/25	11:40 Eastern	G	Water			X	1	
MW-17003 (810-146319-3)	4/23/25	12:45 Eastern	G	Water			X	1	
MW-15018 (810-146319-4)	4/23/25	14:00 Eastern	G	Water			X	1	
MW-15017 (810-146319-5)	4/23/25	15:45 Eastern	G	Water			X	1	
MW-17002 (810-146319-6)	4/23/25	17:05 Eastern	G	Water			X	1	
MW-15005 (810-146319-7)	4/23/25	09:52 Eastern	G	Water			X	1	
MWT-15005 (810-146319-8)	4/23/25	09:52 Eastern	G	Water			X	1	
MW-15006 (810-146319-9)	4/23/25	11:28 Eastern	G	Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, 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 Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *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:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Heather Mosteller	04/29/2025 0940			10:00 APR 30 2025	
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Eurofins Eaton Analytical South Bend
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fullmer, Karen	Carrier Tracking No(s): N/A	COC No: 810-55180.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Karen.Fullmer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Michigan		Job #: 810-146319-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 6/2/2025			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: 25D1772	Project #: 81000263			
Site: N/A	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=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226_228GFPC_P/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-15008 (810-146319-10)	4/23/25	12:34 Eastern	G	Water			X	1	
MW-15007 (810-146319-11)	4/23/25	13:48 Eastern	G	Water			X	1	
MW-15009 (810-146319-12)	4/23/25	14:58 Eastern	G	Water			X	1	
MW-15022 (810-146319-13)	4/23/25	16:02 Eastern	G	Water			X	1	
MW-15021 (810-146319-14)	4/23/25	17:00 Eastern	G	Water			X	1	
MW-17001R (810-146319-15)	4/24/25	10:05 Eastern	G	Water			X	1	
MW-15016R (810-146319-16)	4/24/25	11:00 Eastern	G	Water			X	1	
MW-15015R (810-146319-17)	4/24/25	12:50 Eastern	G	Water			X	1	
MW-15014R (810-146319-18)	4/24/25	14:05 Eastern	G	Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, 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 Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *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: HM 04/29/2025	Time:	Method of Shipment:

Relinquished by: Heather Mayfield	Date/Time: 04/29/2025 0930	Company 0940	Received by: Cheyenne Forrest	Date/Time: 10:00 APR 30 2025	Company
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Eurofins Eaton Analytical South Bend
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fullmer, Karen	Carrier Tracking No(s): N/A	COC No: 810-55180.3
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Karen.Fullmer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Michigan		Job #: 810-146319-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 6/2/2025			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: 25D1772	Project #: 81000263			
Site: N/A	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=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226_228GFPC_P/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-15013 (810-146319-19)	4/24/25	08:50 Eastern	G	Water			X	1	
MW-15004 (810-146319-20)	4/24/25	10:00 Eastern	G	Water			X	1	
MW-15003 (810-146319-21)	4/24/25	11:10 Eastern	G	Water			X	1	
MW-15002 (810-146319-22)	4/24/25	12:10 Eastern	G	Water			X	1	
MW-17006 (810-146319-23)	4/24/25	13:50 Eastern	G	Water			X	1	
MW-15023 (810-146319-24)	4/22/25	09:40 Eastern	G	Water			X	1	
MW-15020 (810-146319-25)	4/22/25	11:20 Eastern	G	Water			X	1	
MW-17005 (810-146319-26)	4/22/25	12:50 Eastern	G	Water			X	1	
MW-15010 (810-146319-27)	4/22/25	11:48 Eastern	G	Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, 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 Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *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: 04/29/2025	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Heather Murphy	04/29/2025 0930	0940		APR 30 2025 10:00	
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Eurofins Eaton Analytical South Bend
110 S Hill Street
South Bend, IN 46617
Phone: 574-233-4777 Fax: 574-233-8207

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fullmer, Karen	Carrier Tracking No(s): N/A	COC No: 810-55180.4
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Karen.Fullmer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Michigan		Job #: 810-146319-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 6/2/2025			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: 25D1772	Project #: 81000263			
Site: N/A	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=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226_228GFPC_P/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MWT-15010 (810-146319-28)	4/22/25	11:48 Eastern	G	Water			X	1	

Analysis Requested

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, 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 Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, 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:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Heather Mefford	04/29/2025 0940			10:00 APR 30 2025	
2	Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Trace Analytical Laboratories

Job Number: 810-146319-1

Login Number: 146319

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Moffitt, Heather

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Samples do not require splitting or compositing.		
Were samples preserved to correct pH upon receipt, if applicable?		
Container provided by EEA		

Login Sample Receipt Checklist

Client: Trace Analytical Laboratories

Job Number: 810-146319-1

Login Number: 146319
List Number: 2
Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis
List Creation: 04/30/25 01:02 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.	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Trace Analytical Laboratories

Job Number: 810-146319-1

Login Number: 146319
List Number: 3
Creator: Carr, Olivia G

List Source: Eurofins St. Louis
List Creation: 05/05/25 03:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

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

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

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110 S. Hill Street
South Bend, IN 46617
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CHAIN OF CUSTODY RECORD

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REPORT TO: Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998

BILL TO: Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444

SAMPLER (Signature)

COMPLIANCE MONITORING: Yes [X] No [ ]

PWS ID #

POPULATION SERVED

STATE (sample origin): MI

SOURCE WATER

PROJECT NAME: 25D1772

PO#: 25D1772

LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO
1	04/22/25	9:40	X		MW-15023	RADIUM 226/228			
2	04/22/25	11:20	X		MW-15020	RADIUM 226/228			
3	04/22/25	12:50		X	MW-17005	RADIUM 226/228			
4	04/22/25	11:48	X		MW-15010	RADIUM 226/228			
5	04/22/25	11:48	X		MWT-15010	RADIUM 226/228			
6									
7									
8									
9									
10									
11									
12									
13									
14									

# OF CONTAINERS	
MATRIX CODE	
TURNAROUND TIME	SW

RELINQUISHED BY:(Signature) DATE: 04.23.25 TIME: 10:00 AM PM

RECEIVED BY:(Signature) Fedex

RELINQUISHED BY:(Signature) DATE TIME AM PM

RECEIVED BY:(Signature)

RELINQUISHED BY:(Signature) DATE TIME AM PM

RECEIVED FOR LABORATORY BY:

DATE TIME AM PM

LAB COMMENTS

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
RV* = Rush Verbal: (5 working days) 50%
RW* = Rush Written: (5 working days) 75%

IV* = Immediate Verbal: (3 working days) 100%
IW* =Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

CONDITIONS UPON RECEIPT (check one):

____ Iced: Wet/Blue ____ Ambient ____ °C Upon Receipt____ N/A

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

*** Please call, expedited service not available for all testing**

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

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

TRACE ANALYTICAL LABORATORIES, INC.

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

25D1772
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-12 (CF: 0.0°C)	IR-13 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Date: 4/23/25									
Time: 855									
Initials: CM									
Package Description: Cooler									
Package Temp °C	-0.3	-0.3		/					
Representative Sample Temp °C	0.7	0.3				/		/	

Sample Receipt

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

Sample Condition

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

Chain of Custody (COC)

Yes No
- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-15010
MW-15020
MWT-15010
MW-17005
MW-15023

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CHAIN OF CUSTODY RECORD

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REPORT TO: Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998

BILL TO: Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444

SAMPLER (Signature)

COMPLIANCE MONITORING: Yes X / No

PWS ID #

POPULATION SERVED

STATE (sample origin): MI

SOURCE WATER

PROJECT NAME: 25D1772

PO#: 25D1772

LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	04/24/25	10:05	X		MW-17001R	Radium 226/228			1	1	GW	SW
2	04/24/25	11:00	X		MW-15016R	Radium 226/228			1	1	GW	SW
3	04/24/25	12:50		X	MW-15015R	Radium 226/228			1	1	GW	SW
4	04/24/25	14:05		X	MW-15014R	Radium 226/228			1	1	GW	SW
5	04/24/25	8:50	X		MW-15013	Radium 226/228			1	1	GW	SW
6	04/24/25	10:00	X		MW-15004	Radium 226/228			1	1	GW	SW
7	04/24/25	11:10	X		MW-15003	Radium 226/228			1	1	GW	SW
8	04/24/25	12:10		X	MW-15002	Radium 226/228			1	1	GW	SW
9	04/24/25	13:50		X	MW-17006	Radium 226/228			1	1	GW	SW
10												
11												
12												
13												
14												

RELINQUISHED BY:(Signature) DATE 4/25/25 TIME 17:00 RECEIVED BY:(Signature) Fedex DATE TIME AM PM

RELINQUISHED BY:(Signature) DATE TIME AM PM RECEIVED BY:(Signature) DATE TIME AM PM

Fedex

RELINQUISHED BY:(Signature) DATE TIME AM PM RECEIVED FOR LABORATORY BY: DATE TIME AM PM

LAB COMMENTS

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

CONDITIONS UPON RECEIPT (check one):

____ Iced: Wet/Blue ____ Ambient ____ °C Upon Receipt____ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
RV* = Rush Verbal: (5 working days) 50%
RW* = Rush Written: (5 working days) 75%
IV* = Immediate Verbal: (3 working days) 100%
IW* =Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

* Please call, expedited service not available for all testing

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

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REPORT TO:
Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998

BILL TO:
Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444

SAMPLER (Signature)

COMPLIANCE MONITORING: Yes [X] No [ ]

PWS ID #

POPULATION SERVED

STATE (sample origin): MI

SOURCE WATER

PROJECT NAME: 25D1772

PO#: 25D1772

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1		04/23/25	10:15	x		MW-17004	Radium 226/228			1	GW	GW	SW
2		04/23/25	11:40	x		MW-15019	Radium 226/228			1	GW	GW	SW
3		04/23/25	12:45		x	MW-17003	Radium 226/228			1	GW	GW	SW
4		04/23/25	14:00		x	MW-15018	Radium 226/228			1	GW	GW	SW
5		04/23/25	15:45		x	MW-15017	Radium 226/228			1	GW	GW	SW
6		04/23/25	17:05		x	MW-17002	Radium 226/228			1	GW	GW	SW
7		04/23/25	9:52	x		MW-15005	Radium 226/228			1	GW	GW	SW
8		04/23/25	9:52	x		MWT-15005	Radium 226/228			1	GW	GW	SW
9		04/23/25	11:28	x		MW-15006	Radium 226/228			1	GW	GW	SW
10		04/23/25	12:34		x	MW-15008	Radium 226/228			1	GW	GW	SW
11		04/23/25	13:48		x	MW-15007	Radium 226/228			1	GW	GW	SW
12		04/23/25	14:58		x	MW-15009	Radium 226/228			1	GW	GW	SW
13		04/23/25	16:02		x	MW-15022	Radium 226/228			1	GW	GW	SW
14		04/23/25	17:00		x	MW-15021	Radium 226/228			1	GW	GW	SW

RELINQUISHED BY:(Signature) — DATE 4/25/25 — TIME 17:00 — RECEIVED BY:(Signature) Fedex — DATE — TIME — RELINQUISHED BY:(Signature) Fedex — DATE — TIME — RECEIVED BY:(Signature) — DATE — TIME — RELINQUISHED BY:(Signature) — DATE — TIME — RECEIVED FOR LABORATORY BY: — DATE — TIME

LAB COMMENTS

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

CONDITIONS UPON RECEIPT (check one):
____ Iced: Wet/Blue ____ Ambient ____ °C Upon Receipt____ N/A

MATRIX CODES:
DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW	= Standard Written: (15 working days)	0%	
RW*	= Rush Verbal: (5 working days)	50%	
RW*	= Rush Written: (5 working days)	75%	
IV*	= Immediate Verbal: (3 working days)	100%	
IW*	=Immediate Written: (3 working days)	125%	
SP*	= Weekend, Holiday	CALL	
STAT*	= Less than 48 hours	CALL	

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

* Please call, expedited service not available for all testing

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

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

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

TRACE
ANALYTICAL LABORATORIES, INC.

eurofins | Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # _____
Batch # _____

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Page _____ of _____

Shaded area for EEA use only

REPORT TO:
Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998

BILL TO:
Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444

SAMPLER (Signature)

COMPLIANCE MONITORING: Yes [X] No [ ]

PWS ID #

POPULATION SERVED

STATE (sample origin): MI

SOURCE WATER

PROJECT NAME: 25D1772

PO#: 25D1772

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1		04/23/25	10:15	x		MW-17004	Radium 226/228			1	GW	GW	SW
2		04/23/25	11:40	x		MW-15019	Radium 226/228			1	GW	GW	SW
3		04/23/25	12:45		x	MW-17003	Radium 226/228			1	GW	GW	SW
4		04/23/25	14:00		x	MW-15018	Radium 226/228			1	GW	GW	SW
5		04/23/25	15:45		x	MW-15017	Radium 226/228			1	GW	GW	SW
6		04/23/25	17:05		x	MW-17002	Radium 226/228			1	GW	GW	SW
7		04/23/25	9:52	x		MW-15005	Radium 226/228			1	GW	GW	SW
8		04/23/25	9:52	x		MWT-15005	Radium 226/228			1	GW	GW	SW
9		04/23/25	11:28	x		MW-15006	Radium 226/228			1	GW	GW	SW
10		04/23/25	12:34		x	MW-15008	Radium 226/228			1	GW	GW	SW
11		04/23/25	13:48		x	MW-15007	Radium 226/228			1	GW	GW	SW
12		04/23/25	14:58		x	MW-15009	Radium 226/228			1	GW	GW	SW
13		04/23/25	16:02		x	MW-15022	Radium 226/228			1	GW	GW	SW
14		04/23/25	17:00		x	MW-15021	Radium 226/228			1	GW	GW	SW

RELINQUISHED BY:(Signature) — DATE 4/25/25 — TIME 17:00 — RECEIVED BY:(Signature) Fedex — DATE — TIME — RELINQUISHED BY:(Signature) Fedex — DATE — TIME — RECEIVED BY:(Signature) — DATE — TIME — RELINQUISHED BY:(Signature) — DATE — TIME — RECEIVED FOR LABORATORY BY: — DATE — TIME

LAB COMMENTS

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

CONDITIONS UPON RECEIPT (check one):
____ Iced: Wet/Blue ____ Ambient ____ °C Upon Receipt____ N/A

MATRIX CODES:
DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW	= Standard Written: (15 working days)	0%	
RW*	= Rush Verbal: (5 working days)	50%	
RW*	= Rush Written: (5 working days)	75%	
IV*	= Immediate Verbal: (3 working days)	100%	
IW*	=Immediate Written: (3 working days)	125%	
SP*	= Weekend, Holiday	CALL	
STAT*	= Less than 48 hours	CALL	

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

* Please call, expedited service not available for all testing

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www.trace-labs.com

25D1772
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.1°C)	IR-12 (CF: 0.0°C)	IR-13 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.1°C)	Temp Blank	Client Sample
Date: 4/25/25									
Time: 9:00									
Initials: CN									
Package Description: Cooler									
Package Temp °C	-0.4	-0.4		X					
Representative Sample Temp °C	1.0	1.0		X					

Sample Receipt

Yes No

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

Sample Condition

Yes No N/A

- [X] [ ] [ ] All sample containers arrived unbroken and labeled
- [X] [ ] [ ] Sufficient sample to run requested analyses
- [X] [ ] [ ] Correct chemical preservative added to samples
- [ ] [X] [ ] Samples preserved at Trace _____
- [ ] [ ] [X] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [ ] pH 0-2.5 (Lot: HC311850) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [X] Air bubbles absent from VOAs _____

Chain of Custody (COC)

Yes No

- [X] [ ] All bottle labels agree with COC
- [X] [ ] COC filled out properly
- [X] [ ] COC signed by client

Notes:

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CHAIN-OF-CUSTODY RECORD

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Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

4/25/25 Page 3 of 3

Trace ID No. 25D1772

Report Results To:

Company Name:	HDR Michigan Inc
Report To:	Andrew Byks & Molly Reeves
Mailing Address:	1000 Oakbrook Dr, Suite 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	Cell Phone:
Email Address:	andrew.byks@hdrinc.com

Bill To:

PO #:	10220433
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	lara.zawaideh@hdrinc.com

Trace Use:

Logged By:	NC
Checked By:	MMJ
Soil Volatiles Preserved (circle if applicable):	MeOH / Low Level / Lab
Sampling Time:	

Turnaround Requirements:

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

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

Matrix Key:

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

Project Name: BC Cobb

Sampled By: AB/FDR

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	Analysis Requested	Remarks	Possible Health Hazards?
26	4/24/25	1110	MW-15003	N	W	3	3	2					App III Part 257		
27	4/24/25	1210	MW-15002	N	W	6	6	2					App IV Part 257		
28	4/24/25	1350	MW-17006	N	W	3	1						Part 115 Metals	-500mL unpres in 4x125mL	
													TDS	add nitric @ lab	to pres

	Released By	Received By	Date	Time	Date	Time
1)	Andrew Byks	Cstyll	4/25/25	0811	4/25/25	1105
2)						
3)						
4)						

Please Sign

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

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2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. 25D1772

Report Results To:

Company Name:	HDR Michigan Inc
Report To:	Andrew Byks/Molly Reeves
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	Cell Phone:
Email Address:	andrew.byks@hdrinc.com

Bill To:

PO #:	10220433
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	lara.zawaideh@hdrinc.com

Trace Use:

Logged By:	NC
Checked By:	MT
Soil Volatiles Preserved (circle if applicable): MeOH / Low Level / Lab	
Sampling Time:	

Turnaround Requirements:

☒ Standard, 5-10 Days
☐ 3 Day*
☐ 1 Day*
*Results provided end of business day, requires prior approval.

Matrix Key:

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

Project Name: BC Cobb
Sampled By: AB/FDR

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	Analysis Requested: App III Part 257	App IV Part 257	TSS	Part 115 Metals	Possible Health Hazards?	Remarks	Received By	Date	Time
16	4/23/25	1348	MW-15007	N	W	3	3		2				X	X	X	X					
17	4/23/25	1458	MW-15009	N	W	3	3		2				X	X	X	X					
18	4/23/25	1602	MW-15022	N	W	3	3		2				X	X	X	X					
19	4/23/25	1700	MW-15021	N	W	3	3		2				X	X	X	X					
20	4/24/25	1005	MW-17001R	N	W	3	3		2				X	X	X	X					
21	4/24/25	1100	MW-15016R	N	W	3	3		2				X	X	X	X					
22	4/24/25	1250	MW-15015R	N	W	3	3		2				X	X	X	X					
23	4/24/25	1405	MW-15014R	N	W	4	4		3				X	X	X	X		2-250mL HNO_3 Pres			
24	4/24/25	850	MW-15013	N	W	3	3		2				X	X	X	X					
25	4/24/25	1000	MW-15004	N	W	3	3		2				X	X	X	X					

Please Sign

Released By	Date	Time	Received By	Released By	Date	Time	Received By
1) Andrew J Byks	4/25/25	8:10	2)				4) Cody Mc
3)							

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2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. 25D1772

Report Results To:

Company Name:	HDR Michigan Inc
Report To:	Andrew Byks/Molly Reeves
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	Cell Phone:
Email Address:	andrew.byks@hdrinc.com

Bill To:

PO #:	10220433
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	lara.zawaideh@hdrinc.com

Trace Use:

Logged By:	NC
Checked By:	MT
Soil Volatiles Preserved (circle if applicable): MeOH / Low Level / Lab	
Sampling Time:	

Turnaround Requirements:

☒ Standard, 5-10 Days
☐ 3 Day*
☐ 1 Day*
*Results provided end of business day, requires prior approval.

Matrix Key:

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

Project Name: BC Cobb
Sampled By: AB/FDR

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y / N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	Analysis Requested: App III Part 257	App IV Part 257	TSS	Part 115 Metals	Possible Health Hazards?	Remarks	Received By	Date	Time
16	4/23/25	1348	MW-15007	N	W	3	3		2				X	X	X	X					
17	4/23/25	1458	MW-15009	N	W	3	3		2				X	X	X	X					
18	4/23/25	1602	MW-15022	N	W	3	3		2				X	X	X	X					
19	4/23/25	1700	MW-15021	N	W	3	3		2				X	X	X	X					
20	4/24/25	1005	MW-17001R	N	W	3	3		2				X	X	X	X					
21	4/24/25	1100	MW-15016R	N	W	3	3		2				X	X	X	X					
22	4/24/25	1250	MW-15015R	N	W	3	3		2				X	X	X	X					
23	4/24/25	1405	MW-15014R	N	W	4	4		3				X	X	X	X		2-250mL HNO_3 Pres			
24	4/24/25	850	MW-15013	N	W	3	3		2				X	X	X	X					
25	4/24/25	1000	MW-15004	N	W	3	3		2				X	X	X	X					

Please Sign

Released By	Date	Time	Received By	Released By	Date	Time	Received By
1) Andrew J Byks	4/25/25	8:10	2)				4) Cody Mc
3)							

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Phone 231.773.5998
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www.trace-labs.com

NC 4/25/25
Trace ID No. 25D1772
~~25D1726~~

Report Results To:

Company Name:	HDR Michigan, Inc
Report To:	Andrew Byrs / Molly Reeves
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	Cell Phone:
Email Address:	andrew.byrs@hdrinc.com

Bill To:

PO #:	10220433
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	lara.zawaideh@hdrinc.com

Trace Use:

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

Turnaround Requirements:

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

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

Matrix Key:

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

Project Name: BC Cobb
Sampled By: AB/FDR

Trace No.	Date Collected	Time Collected	Client Sample ID	Metals Field Filtered (Y/N)	Matrix	Number of Containers	Preservation: Cool	HCl	HNO_3	H_2SO_4	NaOH	Other	Analysis Requested: App III Part 257	App IV Part 257	Part 115 Metals	TSS	Remarks	Possible Health Hazards?
6	4/23/25	1015	MW-17004	N	W	3	3		2				X	X	X	X		
7	4/23/25	1140	MW-15019	N	W	3	3		2				X	X	X	X		
8	4/23/25	1245	MW-17003	N	W	3	3		2				X	X	X	X		
9	4/23/25	1400	MW-15018	N	W	3	3		2				X	X	X	X		
10	4/23/25	1545	MW-15017	N	W	3	3		2				X	X	X	X		
11	4/23/25	1705	MW-17002	N	W	3	3		2				X	X	X	X		
12	4/23/25	952	MW-15005	N	W	3	3		2				X	X	X	X		
13	4/23/25	952	MWT-15005	N	W	3	3		2				X	X	X	X		
14	4/23/25	1128	MW-15006	N	W	3	3		2				X	X	X	X		
15	4/23/25	1234	MW-15008	N	W	3	3		2				X	X	X	X		

Please Sign

	Released By	Received By	Date	Time	Released By	Received By	Date	Time
1)	Andrew J Byrs		4/25/25	8:09	2)		4/25/25	11:05
3)					4)			

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Data Validation Checklist

Site Name: Cobb Sampling Personnel: Andrew Byks & Franklin Davis Ray

Data Validation: Andrew Byks

Sample Date(s): 4/22/2025-4/24/2025 Lab Drop-off Date(s): 4/23/2025 and 4/25/2025

Lab Report Number: 25D1770, 25D1772

Lab Report Date: 5/5/2025 (CCR & Part 115); 6/5/2025 (radium)

Reason for Sample Event: CCR Compliance and Michigan Part 115 Compliance

=

Field Records: Circle Yes/No unless Not Applicable – *Complete during sample event*

Item Description	Verification (Completeness)	Validation (Conformance to Specifications)
Field equipment calibration records	(Yes) / No	(Yes) / No
Chain-of-Custody forms	(Yes) / No	N/A
Field decontamination documentation	N/A	N/A
Sample collection field forms	(Yes) / No	N/A
Drilling logs	(Yes) / No	N/A
Well construction logs	(Yes) / No	N/A
Well development field forms	(Yes) / No	N/A

Analytical Data Package: Circle Yes/No unless N/A – *Complete when lab report is received*

Item Description	Verification (Completeness)	Validation (Conformance to Specifications)
Cover sheet (laboratory identifying information)	(Yes) / No	(Yes) / No
Case narrative	(Yes) / No	(Yes) / No
Internal laboratory Chain-of-Custody forms	(Yes) / No	(Yes) / No
Sample chronology and consistency (that is, dates and times of receipt, preparation, and analysis)	(Yes) / No	(Yes) / No
Communication records with laboratory	(Yes) / No	(Yes) / No
EDD format consistency	(Yes) / No	N/A

Sample identification, results nomenclature, and data qualifier consistency	(Yes) / No	N/A
Method detection limit consistency RLs as requested; MDLs<RLs	(Yes) / No	(Yes) / No
Instrument calibration records	(Yes) / No	(Yes) / No
Laboratory Report	(Yes) / No	(Yes) / No
Field QC sample results and calculation of accuracy and precision	(Yes) / No Duplicate Well ID: MW-15003 MW-17003	Yes / (No) Duplicate RPD: Over 20% + NDs Over 20%

Corrections Needed:

Parent sample MW-15005 required qualification as estimated with low bias, or as estimated but not detected (J-, UJ) and field duplicate MWT-15005 required qualification as estimated with high bias (J+) for chromium, lead, nickel, Rad-226, and Rad-228 due to RPDs outside of control limits and analytes being detected in the duplicate sample but not the parent sample. Parent sample MW-15005 required qualification as estimated with high bias (J+) and field duplicate MWT-15005 for TSS due to RPDs outside of control limits.

Parent sample MW-15010 required qualification as estimated with low bias, or as estimated but not detected (J-, UJ) and field duplicate MWT-15010 required qualification as estimated with high bias (J+) for Rad-226 and Rad-228 due to RPDs outside of control limits.

Appendix D

Statistical 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
01_2_101	MW-15009	Appendix IV	Antimony	ug/L	23	22	96%	2015-12-01 to 2025-04-23		Nonparametric	0.757	1.00	0.250	1.20	0.382	0.505	-0.603
01_2_102	MW-15009	Appendix IV	Arsenic	ug/L	24	1	4%	2015-12-01 to 2025-04-23	Gamma; Normal	Gamma	12.4	10.7	0.550	45.0	11.3	0.911	1.14
01_2_103	MW-15009	Appendix IV	Barium	ug/L	24	0	0%	2015-12-01 to 2025-04-23	Nonparametric	Nonparametric	50.5	21.8	9.00	250	55.8	1.11	2.21
01_2_104	MW-15009	Appendix IV	Beryllium	ug/L	23	23	100%	2015-12-01 to 2025-04-23		Nonparametric	0.722	1.00	0.200	1.20	0.395	0.548	-0.406
01_2_106	MW-15009	Appendix IV	Cadmium	ug/L	23	23	100%	2015-12-01 to 2025-04-23		Nonparametric	0.304	0.200	0.200	1.20	0.284	0.932	3.10
01_2_109	MW-15009	Appendix IV	Chromium	ug/L	24	20	83%	2015-12-01 to 2025-04-23		Nonparametric	0.777	1.00	0.190	2.00	0.464	0.597	0.373
01_2_110	MW-15009	Appendix IV	Cobalt	ug/L	23	21	91%	2015-12-01 to 2025-04-23		Nonparametric	7.44	6.00	0.100	15.0	6.96	0.935	0.146
01_2_114	MW-15009	Appendix IV	Fluoride	ug/L	24	18	75%	2015-12-01 to 2025-04-23	Gamma; Normal	Nonparametric	587	1000	20.0	1000	460	0.785	-0.192
01_2_116	MW-15009	Appendix IV	Lead	ug/L	23	23	100%	2015-12-01 to 2025-04-23		Nonparametric	1.00	1.00	0.550	2.80	0.607	0.607	2.44
01_2_117	MW-15009	Appendix IV	Lithium	ug/L	24	0	0%	2015-12-01 to 2025-04-23	Gamma; Lognormal; Normal	Normal	24.2	21.0	11.0	63.9	11.9	0.490	1.85
01_2_118	MW-15009	Appendix IV	Mercury	ug/L	23	23	100%	2015-12-01 to 2025-04-23		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
01_2_119	MW-15009	Appendix IV	Molybdenum	ug/L	24	6	25%	2015-12-01 to 2025-04-23	Nonparametric	Nonparametric	19.4	5.85	0.560	60.0	21.7	1.12	0.769
01_2_125	MW-15009	Appendix IV	Radium-226+228	pCi/L	24	12	50%	2015-12-01 to 2025-04-23	Normal	Nonparametric	0.874	0.606	0.0300	3.85	0.866	0.991	2.31
01_2_127	MW-15009	Appendix IV	Selenium	ug/L	24	23	96%	2015-12-01 to 2025-04-23		Nonparametric	1.00	1.00	0.500	2.50	0.571	0.571	1.72
01_2_131	MW-15009	Appendix IV	Thallium	ug/L	23	23	100%	2015-12-01 to 2025-04-23		Nonparametric	1.38	2.00	0.380	2.00	0.777	0.562	-0.539
02_2_101	MW-15010	Appendix IV	Antimony	ug/L	24	24	100%	2015-12-01 to 2025-04-22		Nonparametric	0.735	1.00	0.250	1.20	0.388	0.528	-0.478
02_2_102	MW-15010	Appendix IV	Arsenic	ug/L	25	22	88%	2015-12-01 to 2025-04-22		Nonparametric	0.952	1.00	0.150	2.80	0.618	0.649	2.18
02_2_103	MW-15010	Appendix IV	Barium	ug/L	25	0	0%	2015-12-01 to 2025-04-22	Gamma; Lognormal	Gamma	76.8	61.0	28.0	210	46.1	0.600	1.24
02_2_104	MW-15010	Appendix IV	Beryllium	ug/L	24	23	96%	2015-12-01 to 2025-04-22		Nonparametric	0.694	1.00	0.0580	1.20	0.410	0.590	-0.328
02_2_106	MW-15010	Appendix IV	Cadmium	ug/L	24	24	100%	2015-12-01 to 2025-04-22		Nonparametric	0.302	0.200	0.200	1.20	0.278	0.919	3.18
02_2_109	MW-15010	Appendix IV	Chromium	ug/L	25	15	60%	2015-12-01 to 2025-04-22	Nonparametric	Nonparametric	0.766	1.00	0.210	2.00	0.456	0.596	0.466
02_2_110	MW-15010	Appendix IV	Cobalt	ug/L	24	20	83%	2015-12-01 to 2025-04-22		Nonparametric	7.15	4.30	0.110	15.0	6.95	0.971	0.229
02_2_114	MW-15010	Appendix IV	Fluoride	ug/L	26	15	58%	2015-12-01 to 2025-04-22	Gamma; Lognormal; Normal	Nonparametric	683	1000	200	1000	351	0.514	-0.202
02_2_116	MW-15010	Appendix IV	Lead	ug/L	24	24	100%	2015-12-01 to 2025-04-22		Nonparametric	0.981	1.00	0.550	2.80	0.601	0.612	2.48
02_2_117	MW-15010	Appendix IV	Lithium	ug/L	25	0	0%	2015-12-01 to 2025-04-22	Gamma; Lognormal	Gamma	30.4	28.0	14.0	54.0	12	0.394	0.527
02_2_118	MW-15010	Appendix IV	Mercury	ug/L	24	24	100%	2015-12-01 to 2025-04-22		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
02_2_119	MW-15010	Appendix IV	Molybdenum	ug/L	25	11	44%	2015-12-01 to 2025-04-22	Gamma; Lognormal; Normal	Gamma	8.37	5.00	1.10	33.0	9.48	1.13	1.55
02_2_125	MW-15010	Appendix IV	Radium-226+228	pCi/L	25	11	44%	2015-12-01 to 2025-04-22	Gamma; Lognormal; Normal	Normal	1.04	0.973	0.280	2.03	0.575	0.553	0.298
02_2_127	MW-15010	Appendix IV	Selenium	ug/L	25	23	92%	2015-12-01 to 2025-04-22		Nonparametric	0.940	1.00	0.500	2.50	0.527	0.560	2.12
02_2_131	MW-15010	Appendix IV	Thallium	ug/L	24	24	100%	2015-12-01 to 2025-04-22		Nonparametric	1.34	1.95	0.380	2.00	0.788	0.587	-0.418
03_2_101	MW-15013	Appendix IV	Antimony	ug/L	23	23	100%	2015-12-01 to 2025-04-24		Nonparametric	0.757	1.00	0.250	1.20	0.382	0.505	-0.603
03_2_102	MW-15013	Appendix IV	Arsenic	ug/L	24	19	79%	2015-12-01 to 2025-04-24	Gamma; Lognormal; Normal	Nonparametric	1.05	1.00	0.200	2.80	0.645	0.612	1.73
03_2_103	MW-15013	Appendix IV	Barium	ug/L	24	0	0%	2015-12-01 to 2025-04-24	Nonparametric	Nonparametric	72.5	51.5	31.0	180	39.9	0.550	1.32
03_2_104	MW-15013	Appendix IV	Beryllium	ug/L	23	22	96%	2015-12-01 to 2025-04-24		Nonparametric	0.723	1.00	0.200	1.20	0.394	0.545	-0.407
03_2_106	MW-15013	Appendix IV	Cadmium	ug/L	23	23	100%	2015-12-01 to 2025-04-24		Nonparametric	0.304	0.200	0.200	1.20	0.284	0.932	3.10
03_2_109	MW-15013	Appendix IV	Chromium	ug/L	24	19	79%	2015-12-01 to 2025-04-24	Gamma; Lognormal; Normal	Nonparametric	0.866	1.00	0.140	2.50	0.574	0.663	0.978
03_2_110	MW-15013	Appendix IV	Cobalt	ug/L	23	19	83%	2015-12-01 to 2025-04-24		Nonparametric	7.41	6.00	0.0820	15.0	6.99	0.943	0.143
03_2_114	MW-15013	Appendix IV	Fluoride	ug/L	25	17	68%	2015-12-01 to 2025-04-24	Gamma; Lognormal; Normal	Nonparametric	648	1000	97.0	1000	412	0.635	-0.349
03_2_116	MW-15013	Appendix IV	Lead	ug/L	23	22	96%	2015-12-01 to 2025-04-24		Nonparametric	1.18	1.00	0.550	4.70	0.973	0.824	2.71
03_2_117	MW-15013	Appendix IV	Lithium	ug/L	24	0	0%	2015-12-01 to 2025-04-24	Lognormal	Lognormal	23.9	22.0	13.0	46.0	8.32	0.348	1.14
03_2_118	MW-15013	Appendix IV	Mercury	ug/L	23	23	100%	2015-12-01 to 2025-04-24		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
03_2_119	MW-15013	Appendix IV	Molybdenum	ug/L	24	5	21%	2015-12-01 to 2025-04-24	Gamma; Lognormal	Gamma	10.1	5.95	0.620	77.2	15.4	1.52	3.88

(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
03_2_125	MW-15013	Appendix IV	Radium-226+228	pCi/L	24	9	38%	2015-12-01 to 2025-04-24	Gamma; Lognormal; Normal	Normal	0.776	0.597	0.160	1.56	0.371	0.478	0.517
03_2_127	MW-15013	Appendix IV	Selenium	ug/L	24	21	88%	2015-12-01 to 2025-04-24		Nonparametric	0.945	1.00	0.280	2.50	0.540	0.571	1.99
03_2_131	MW-15013	Appendix IV	Thallium	ug/L	23	22	96%	2015-12-01 to 2025-04-24		Nonparametric	1.37	2.00	0.140	2.00	0.793	0.577	-0.556
04_2_101	MW-15014R	Appendix IV	Antimony	ug/L	9	9	100%	2022-02-01 to 2025-04-24		Nonparametric	0.567	0.250	0.250	1.20	0.475	0.838	0.857
04_2_102	MW-15014R	Appendix IV	Arsenic	ug/L	9	5	56%	2022-02-01 to 2025-04-24		Nonparametric	1.07	0.550	0.200	2.80	1.07	1.00	1.13
04_2_103	MW-15014R	Appendix IV	Barium	ug/L	9	0	0%	2022-02-01 to 2025-04-24	Gamma; Lognormal; Normal	Normal	173	170	160	200	14.1	0.0816	0.947
04_2_104	MW-15014R	Appendix IV	Beryllium	ug/L	9	8	89%	2022-02-01 to 2025-04-24		Nonparametric	0.444	0.250	0.100	1.20	0.431	0.970	1.56
04_2_106	MW-15014R	Appendix IV	Cadmium	ug/L	9	9	100%	2022-02-01 to 2025-04-24		Nonparametric	0.567	0.250	0.250	1.20	0.475	0.838	0.857
04_2_109	MW-15014R	Appendix IV	Chromium	ug/L	9	8	89%	2022-02-01 to 2025-04-24		Nonparametric	0.481	0.250	0.250	1.20	0.412	0.856	1.54
04_2_110	MW-15014R	Appendix IV	Cobalt	ug/L	9	8	89%	2022-02-01 to 2025-04-24		Nonparametric	0.939	0.520	0.130	2.60	0.950	1.01	1.53
04_2_114	MW-15014R	Appendix IV	Fluoride	ug/L	9	1	11%	2022-02-01 to 2025-04-24	Gamma; Lognormal; Normal	Normal	250	270	180	300	45.3	0.181	-0.561
04_2_116	MW-15014R	Appendix IV	Lead	ug/L	9	9	100%	2022-02-01 to 2025-04-24		Nonparametric	1.30	0.550	0.550	2.80	1.12	0.865	0.857
04_2_117	MW-15014R	Appendix IV	Lithium	ug/L	9	0	0%	2022-02-01 to 2025-04-24	Lognormal	Lognormal	57.2	48.0	36.0	130	28.8	0.503	2.46
04_2_118	MW-15014R	Appendix IV	Mercury	ug/L	9	9	100%	2022-02-01 to 2025-04-24		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
04_2_119	MW-15014R	Appendix IV	Molybdenum	ug/L	9	2	22%	2022-02-01 to 2025-04-24	Gamma; Lognormal	Gamma	3.93	3.00	0.680	11.0	3.32	0.844	1.33
04_2_125	MW-15014R	Appendix IV	Radium-226+228	pCi/L	9	0	0%	2022-02-01 to 2025-04-24	Gamma; Lognormal; Normal	Normal	0.877	0.720	0.230	1.76	0.536	0.611	0.622
04_2_127	MW-15014R	Appendix IV	Selenium	ug/L	9	8	89%	2022-02-01 to 2025-04-24		Nonparametric	0.901	0.500	0.110	2.50	0.915	1.02	1.53
04_2_131	MW-15014R	Appendix IV	Thallium	ug/L	9	9	100%	2022-02-01 to 2025-04-24		Nonparametric	0.887	0.380	0.380	1.90	0.760	0.857	0.857
05_2_101	MW-15015R	Appendix IV	Antimony	ug/L	12	6	50%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Nonparametric	2.04	0.925	0.250	13.0	3.60	1.76	3.02
05_2_102	MW-15015R	Appendix IV	Arsenic	ug/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	22.7	21.0	3.20	55.0	15.7	0.690	0.868
05_2_103	MW-15015R	Appendix IV	Barium	ug/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	113	114	60.0	170	35.4	0.313	-0.00731
05_2_104	MW-15015R	Appendix IV	Beryllium	ug/L	12	11	92%	2020-05-21 to 2025-04-24		Nonparametric	0.384	0.250	0.0580	1.20	0.385	1.00	1.95
05_2_106	MW-15015R	Appendix IV	Cadmium	ug/L	12	12	100%	2020-05-21 to 2025-04-24		Nonparametric	0.400	0.250	0.200	1.20	0.374	0.935	2.04
05_2_109	MW-15015R	Appendix IV	Chromium	ug/L	12	10	83%	2020-05-21 to 2025-04-24		Nonparametric	0.468	0.250	0.220	1.20	0.404	0.863	1.38
05_2_110	MW-15015R	Appendix IV	Cobalt	ug/L	12	7	58%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Nonparametric	0.757	0.510	0.150	2.60	0.871	1.15	1.94
05_2_114	MW-15015R	Appendix IV	Fluoride	ug/L	12	6	50%	2020-05-21 to 2025-04-24	Gamma; Normal	Nonparametric	120	105	12.0	200	53.6	0.448	-0.0432
05_2_116	MW-15015R	Appendix IV	Lead	ug/L	12	12	100%	2020-05-21 to 2025-04-24		Nonparametric	1.38	0.775	0.550	2.80	1.07	0.775	0.731
05_2_117	MW-15015R	Appendix IV	Lithium	ug/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	47.6	44.5	3.80	120	28.6	0.600	1.31
05_2_118	MW-15015R	Appendix IV	Mercury	ug/L	12	12	100%	2020-05-21 to 2025-04-24		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
05_2_119	MW-15015R	Appendix IV	Molybdenum	ug/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Lognormal	Gamma	130	85.0	2.00	430	136	1.04	0.944
05_2_125	MW-15015R	Appendix IV	Radium-226+228	pCi/L	12	2	17%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	0.978	0.799	0.250	2.12	0.621	0.635	0.979
05_2_127	MW-15015R	Appendix IV	Selenium	ug/L	12	7	58%	2020-05-21 to 2025-04-24	Lognormal	Nonparametric	0.950	0.750	0.240	2.50	0.789	0.830	1.38
05_2_131	MW-15015R	Appendix IV	Thallium	ug/L	12	12	100%	2020-05-21 to 2025-04-24		Nonparametric	0.990	0.690	0.380	1.90	0.710	0.717	0.504
06_2_101	MW-15016R	Appendix IV	Antimony	ug/L	12	10	83%	2020-05-21 to 2025-04-24		Nonparametric	0.397	0.250	0.140	1.20	0.377	0.949	2.02
06_2_102	MW-15016R	Appendix IV	Arsenic	ug/L	12	1	8%	2020-05-21 to 2025-04-24	Nonparametric	Nonparametric	2.89	1.90	1.30	10.1	2.53	0.876	2.53
06_2_103	MW-15016R	Appendix IV	Barium	ug/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	1009	980	789	1300	155	0.154	0.351
06_2_104	MW-15016R	Appendix IV	Beryllium	ug/L	12	11	92%	2020-05-21 to 2025-04-24		Nonparametric	0.386	0.250	0.0850	1.20	0.383	0.992	1.98
06_2_106	MW-15016R	Appendix IV	Cadmium	ug/L	12	12	100%	2020-05-21 to 2025-04-24		Nonparametric	0.400	0.250	0.200	1.20	0.374	0.935	2.04
06_2_109	MW-15016R	Appendix IV	Chromium	ug/L	12	2	17%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	0.897	0.825	0.650	1.20	0.217	0.242	0.542
06_2_110	MW-15016R	Appendix IV	Cobalt	ug/L	12	1	8%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	1.22	0.980	0.660	2.60	0.560	0.459	1.64
06_2_114	MW-15016R	Appendix IV	Fluoride	ug/L	12	9	75%	2020-05-21 to 2025-04-24		Nonparametric	99.5	100	20.0	200	43.2	0.435	0.637
06_2_116	MW-15016R	Appendix IV	Lead	ug/L	12	10	83%	2020-05-21 to 2025-04-24		Nonparametric	0.884	0.550	0.0590	2.80	0.926	1.05	1.75

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
06_2_117	MW-15016R	Appendix IV	Lithium	ug/L	12	3	25%	2020-05-21 to 2025-04-24	Nonparametric	Nonparametric	15.6	6.00	3.70	110	29.9	1.92	3.41
06_2_118	MW-15016R	Appendix IV	Mercury	ug/L	12	12	100%	2020-05-21 to 2025-04-24		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
06_2_119	MW-15016R	Appendix IV	Molybdenum	ug/L	12	8	67%	2020-05-21 to 2025-04-24		Nonparametric	2.75	1.20	0.390	7.50	2.54	0.925	1.02
06_2_125	MW-15016R	Appendix IV	Radium-226+228	pCi/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Normal	Normal	4.12	4.12	1.60	5.64	1.17	0.284	-0.683
06_2_127	MW-15016R	Appendix IV	Selenium	ug/L	12	8	67%	2020-05-21 to 2025-04-24		Nonparametric	0.896	0.500	0.120	2.50	0.833	0.930	1.29
06_2_131	MW-15016R	Appendix IV	Thallium	ug/L	12	12	100%	2020-05-21 to 2025-04-24		Nonparametric	0.737	0.380	0.380	1.90	0.593	0.804	1.48
07_2_101	MW-15017	Appendix IV	Antimony	ug/L	23	23	100%	2015-12-01 to 2025-04-23		Nonparametric	0.757	1.00	0.250	1.20	0.382	0.505	-0.603
07_2_102	MW-15017	Appendix IV	Arsenic	ug/L	24	1	4%	2015-12-01 to 2025-04-23	Nonparametric	Nonparametric	3.90	2.15	1.60	13.0	3.51	0.902	1.90
07_2_103	MW-15017	Appendix IV	Barium	ug/L	24	0	0%	2015-12-01 to 2025-04-23	Gamma; Lognormal; Normal	Normal	981	980	772	1200	96.1	0.0980	0.0844
07_2_104	MW-15017	Appendix IV	Beryllium	ug/L	23	21	91%	2015-12-01 to 2025-04-23		Nonparametric	0.706	1.00	0.0200	1.20	0.419	0.593	-0.475
07_2_106	MW-15017	Appendix IV	Cadmium	ug/L	23	23	100%	2015-12-01 to 2025-04-23		Nonparametric	0.304	0.200	0.200	1.20	0.284	0.932	3.10
07_2_109	MW-15017	Appendix IV	Chromium	ug/L	24	1	4%	2015-12-01 to 2025-04-23	Gamma; Lognormal; Normal	Normal	3.19	3.00	0.510	11.0	2.61	0.818	1.54
07_2_110	MW-15017	Appendix IV	Cobalt	ug/L	23	13	57%	2015-12-01 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	7.54	6.00	0.500	15.0	6.84	0.906	0.165
07_2_114	MW-15017	Appendix IV	Fluoride	ug/L	25	24	96%	2015-12-01 to 2025-04-23		Nonparametric	611	1000	2.60	1000	452	0.739	-0.310
07_2_116	MW-15017	Appendix IV	Lead	ug/L	23	23	100%	2015-12-01 to 2025-04-23		Nonparametric	1.10	1.00	0.550	2.80	0.704	0.642	1.94
07_2_117	MW-15017	Appendix IV	Lithium	ug/L	24	16	67%	2015-12-01 to 2025-04-23	Lognormal	Nonparametric	9.29	10.0	3.50	18.0	3.24	0.349	0.113
07_2_118	MW-15017	Appendix IV	Mercury	ug/L	23	23	100%	2015-12-01 to 2025-04-23		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
07_2_119	MW-15017	Appendix IV	Molybdenum	ug/L	24	21	88%	2015-12-01 to 2025-04-23		Nonparametric	3.61	5.00	0.200	6.20	2.09	0.578	-0.512
07_2_125	MW-15017	Appendix IV	Radium-226+228	pCi/L	24	0	0%	2015-12-01 to 2025-04-23	Gamma; Lognormal; Normal	Normal	4.80	4.84	3.00	5.89	0.663	0.138	-0.592
07_2_127	MW-15017	Appendix IV	Selenium	ug/L	24	12	50%	2015-12-01 to 2025-04-23	Gamma	Nonparametric	1.83	1.35	0.150	8.00	1.72	0.936	2.11
07_2_131	MW-15017	Appendix IV	Thallium	ug/L	23	23	100%	2015-12-01 to 2025-04-23		Nonparametric	1.45	2.00	0.380	2.00	0.752	0.519	-0.750
08_2_101	MW-15018	Appendix IV	Antimony	ug/L	23	23	100%	2015-12-02 to 2025-04-23		Nonparametric	0.757	1.00	0.250	1.20	0.382	0.505	-0.603
08_2_102	MW-15018	Appendix IV	Arsenic	ug/L	24	14	58%	2015-12-02 to 2025-04-23	Gamma; Lognormal	Nonparametric	1.09	1.00	0.440	3.80	0.766	0.705	2.59
08_2_103	MW-15018	Appendix IV	Barium	ug/L	24	0	0%	2015-12-02 to 2025-04-23	Nonparametric	Nonparametric	149	142	93.0	280	38.9	0.262	2.17
08_2_104	MW-15018	Appendix IV	Beryllium	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.717	1.00	0.140	1.20	0.402	0.561	-0.418
08_2_106	MW-15018	Appendix IV	Cadmium	ug/L	23	23	100%	2015-12-02 to 2025-04-23		Nonparametric	0.304	0.200	0.200	1.20	0.284	0.932	3.10
08_2_109	MW-15018	Appendix IV	Chromium	ug/L	24	10	42%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Normal	0.873	1.00	0.280	1.80	0.345	0.396	0.204
08_2_110	MW-15018	Appendix IV	Cobalt	ug/L	23	19	83%	2015-12-02 to 2025-04-23		Nonparametric	7.45	6.00	0.160	15.0	6.95	0.933	0.148
08_2_114	MW-15018	Appendix IV	Fluoride	ug/L	25	15	60%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	639	1000	110	1000	417	0.653	-0.276
08_2_116	MW-15018	Appendix IV	Lead	ug/L	23	17	74%	2015-12-02 to 2025-04-23	Lognormal	Nonparametric	1.17	1.00	0.310	3.90	0.838	0.718	2.34
08_2_117	MW-15018	Appendix IV	Lithium	ug/L	24	0	0%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Normal	20.8	21.0	12.0	33.0	5.28	0.254	0.247
08_2_118	MW-15018	Appendix IV	Mercury	ug/L	23	23	100%	2015-12-02 to 2025-04-23		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
08_2_119	MW-15018	Appendix IV	Molybdenum	ug/L	24	22	92%	2015-12-02 to 2025-04-23		Nonparametric	3.64	5.00	0.530	6.20	2.04	0.560	-0.469
08_2_125	MW-15018	Appendix IV	Radium-226+228	pCi/L	24	4	17%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Normal	1.17	1.20	0.554	1.84	0.362	0.310	0.00565
08_2_127	MW-15018	Appendix IV	Selenium	ug/L	24	20	83%	2015-12-02 to 2025-04-23		Nonparametric	1.05	1.00	0.190	4.00	0.838	0.801	2.41
08_2_131	MW-15018	Appendix IV	Thallium	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	1.38	2.00	0.170	2.00	0.791	0.575	-0.552
09_2_101	MW-15019	Appendix IV	Antimony	ug/L	23	23	100%	2015-12-02 to 2025-04-23		Nonparametric	0.757	1.00	0.250	1.20	0.382	0.505	-0.603
09_2_102	MW-15019	Appendix IV	Arsenic	ug/L	24	15	62%	2015-12-02 to 2025-04-23	Gamma; Lognormal	Nonparametric	1.29	1.00	0.400	8.10	1.53	1.18	4.15
09_2_103	MW-15019	Appendix IV	Barium	ug/L	24	0	0%	2015-12-02 to 2025-04-23	Nonparametric	Nonparametric	205	132	78.0	640	149	0.729	1.41
09_2_104	MW-15019	Appendix IV	Beryllium	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.748	1.00	0.0580	1.20	0.396	0.529	-0.644
09_2_106	MW-15019	Appendix IV	Cadmium	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.297	0.200	0.0780	1.20	0.287	0.968	3.04
09_2_109	MW-15019	Appendix IV	Chromium	ug/L	24	14	58%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	0.841	1.00	0.250	1.20	0.279	0.331	-0.898

(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
09_2_110	MW-15019	Appendix IV	Cobalt	ug/L	23	13	57%	2015-12-02 to 2025-04-23	Nonparametric	Nonparametric	7.53	6.00	0.590	15.0	6.86	0.911	0.161
09_2_114	MW-15019	Appendix IV	Fluoride	ug/L	25	23	92%	2015-12-02 to 2025-04-23		Nonparametric	603	1000	20.0	1000	458	0.760	-0.269
09_2_116	MW-15019	Appendix IV	Lead	ug/L	23	19	83%	2015-12-02 to 2025-04-23		Nonparametric	1.02	1.00	0.160	2.80	0.678	0.667	1.65
09_2_117	MW-15019	Appendix IV	Lithium	ug/L	24	3	12%	2015-12-02 to 2025-04-23	Nonparametric	Nonparametric	17.3	22.0	1.20	33.0	9.85	0.571	-0.423
09_2_118	MW-15019	Appendix IV	Mercury	ug/L	23	23	100%	2015-12-02 to 2025-04-23		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
09_2_119	MW-15019	Appendix IV	Molybdenum	ug/L	24	20	83%	2015-12-02 to 2025-04-23		Nonparametric	4.39	5.00	0.580	9.00	2.26	0.515	-0.0864
09_2_125	MW-15019	Appendix IV	Radium-226+228	pCi/L	24	5	21%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Normal	1.49	1.35	0.331	3.81	0.794	0.535	1.22
09_2_127	MW-15019	Appendix IV	Selenium	ug/L	24	19	79%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	0.951	1.00	0.120	2.50	0.622	0.654	1.33
09_2_131	MW-15019	Appendix IV	Thallium	ug/L	23	20	87%	2015-12-02 to 2025-04-23		Nonparametric	1.42	2.00	0.0970	2.00	0.798	0.562	-0.711
10_2_101	MW-15020	Appendix IV	Antimony	ug/L	23	23	100%	2015-12-02 to 2025-04-22		Nonparametric	0.757	1.00	0.250	1.20	0.382	0.505	-0.603
10_2_102	MW-15020	Appendix IV	Arsenic	ug/L	24	18	75%	2015-12-02 to 2025-04-22	Gamma; Lognormal; Normal	Nonparametric	0.948	1.00	0.230	2.80	0.634	0.668	2.11
10_2_103	MW-15020	Appendix IV	Barium	ug/L	24	0	0%	2015-12-02 to 2025-04-22	Normal	Normal	174	149	47.0	393	120	0.691	0.523
10_2_104	MW-15020	Appendix IV	Beryllium	ug/L	23	23	100%	2015-12-02 to 2025-04-22		Nonparametric	0.722	1.00	0.200	1.20	0.395	0.548	-0.406
10_2_106	MW-15020	Appendix IV	Cadmium	ug/L	23	23	100%	2015-12-02 to 2025-04-22		Nonparametric	0.304	0.200	0.200	1.20	0.284	0.932	3.10
10_2_109	MW-15020	Appendix IV	Chromium	ug/L	24	13	54%	2015-12-02 to 2025-04-22	Gamma; Lognormal	Nonparametric	0.851	1.00	0.250	2.00	0.398	0.468	0.561
10_2_110	MW-15020	Appendix IV	Cobalt	ug/L	23	19	83%	2015-12-02 to 2025-04-22		Nonparametric	7.44	6.00	0.180	15.0	6.96	0.935	0.146
10_2_114	MW-15020	Appendix IV	Fluoride	ug/L	25	22	88%	2015-12-02 to 2025-04-22		Nonparametric	604	1000	15.0	1000	457	0.756	-0.274
10_2_116	MW-15020	Appendix IV	Lead	ug/L	23	22	96%	2015-12-02 to 2025-04-22		Nonparametric	1.01	1.00	0.550	2.80	0.602	0.598	2.47
10_2_117	MW-15020	Appendix IV	Lithium	ug/L	24	4	17%	2015-12-02 to 2025-04-22	Normal	Normal	11.8	13.0	1.20	20.0	4.97	0.423	-0.441
10_2_118	MW-15020	Appendix IV	Mercury	ug/L	23	23	100%	2015-12-02 to 2025-04-22		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
10_2_119	MW-15020	Appendix IV	Molybdenum	ug/L	24	23	96%	2015-12-02 to 2025-04-22		Nonparametric	3.63	5.00	0.250	6.20	2.06	0.567	-0.485
10_2_125	MW-15020	Appendix IV	Radium-226+228	pCi/L	24	6	25%	2015-12-02 to 2025-04-22	Gamma; Lognormal; Normal	Normal	1.65	1.46	0.467	4.68	1.03	0.622	1.14
10_2_127	MW-15020	Appendix IV	Selenium	ug/L	24	21	88%	2015-12-02 to 2025-04-22		Nonparametric	1.02	1.00	0.500	2.50	0.577	0.567	1.59
10_2_131	MW-15020	Appendix IV	Thallium	ug/L	23	23	100%	2015-12-02 to 2025-04-22		Nonparametric	1.38	2.00	0.380	2.00	0.777	0.562	-0.539
11_2_101	MW-15021	Appendix IV	Antimony	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.752	1.00	0.150	1.20	0.389	0.517	-0.616
11_2_102	MW-15021	Appendix IV	Arsenic	ug/L	24	6	25%	2015-12-02 to 2025-04-23	Gamma; Normal	Normal	1.36	1.15	0.120	3.00	0.666	0.488	0.862
11_2_103	MW-15021	Appendix IV	Barium	ug/L	24	0	0%	2015-12-02 to 2025-04-23	Nonparametric	Nonparametric	297	251	211	480	79.2	0.267	0.874
11_2_104	MW-15021	Appendix IV	Beryllium	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.714	1.00	0.0240	1.20	0.407	0.571	-0.455
11_2_106	MW-15021	Appendix IV	Cadmium	ug/L	23	23	100%	2015-12-02 to 2025-04-23		Nonparametric	0.304	0.200	0.200	1.20	0.284	0.932	3.10
11_2_109	MW-15021	Appendix IV	Chromium	ug/L	24	6	25%	2015-12-02 to 2025-04-23	Lognormal	Lognormal	1.19	1.00	0.710	2.00	0.449	0.378	1.13
11_2_110	MW-15021	Appendix IV	Cobalt	ug/L	23	14	61%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	7.51	6.00	0.470	15.0	6.87	0.916	0.163
11_2_114	MW-15021	Appendix IV	Fluoride	ug/L	25	23	92%	2015-12-02 to 2025-04-23		Nonparametric	600	1000	13.0	1000	462	0.769	-0.272
11_2_116	MW-15021	Appendix IV	Lead	ug/L	23	23	100%	2015-12-02 to 2025-04-23		Nonparametric	1.00	1.00	0.550	2.80	0.607	0.607	2.44
11_2_117	MW-15021	Appendix IV	Lithium	ug/L	24	18	75%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	7.39	10.0	1.20	12.0	3.73	0.505	-0.499
11_2_118	MW-15021	Appendix IV	Mercury	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.224	0.200	0.200	0.750	0.115	0.512	4.80
11_2_119	MW-15021	Appendix IV	Molybdenum	ug/L	24	24	100%	2015-12-02 to 2025-04-23		Nonparametric	3.67	5.00	1.00	6.20	2.0	0.545	-0.451
11_2_125	MW-15021	Appendix IV	Radium-226+228	pCi/L	24	3	12%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Normal	1.65	1.50	0.354	3.24	0.724	0.438	0.320
11_2_127	MW-15021	Appendix IV	Selenium	ug/L	24	15	62%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	1.11	1.00	0.120	4.00	0.884	0.799	1.83
11_2_131	MW-15021	Appendix IV	Thallium	ug/L	23	23	100%	2015-12-02 to 2025-04-23		Nonparametric	1.38	2.00	0.380	2.00	0.777	0.562	-0.539
12_2_101	MW-15022	Appendix IV	Antimony	ug/L	24	23	96%	2015-12-02 to 2025-04-23		Nonparametric	0.773	1.00	0.250	1.90	0.453	0.586	0.225
12_2_102	MW-15022	Appendix IV	Arsenic	ug/L	25	10	40%	2015-12-02 to 2025-04-23	Normal	Normal	2.70	1.10	0.190	8.00	2.68	0.993	0.839
12_2_103	MW-15022	Appendix IV	Barium	ug/L	25	0	0%	2015-12-02 to 2025-04-23	Lognormal	Lognormal	168	140	102	290	53.6	0.319	0.717

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
12_2_104	MW-15022	Appendix IV	Beryllium	ug/L	24	24	100%	2015-12-02 to 2025-04-23		Nonparametric	0.702	1.00	0.200	1.20	0.398	0.568	-0.295
12_2_106	MW-15022	Appendix IV	Cadmium	ug/L	24	24	100%	2015-12-02 to 2025-04-23		Nonparametric	0.302	0.200	0.200	1.20	0.278	0.919	3.18
12_2_109	MW-15022	Appendix IV	Chromium	ug/L	25	17	68%	2015-12-02 to 2025-04-23	Gamma; Lognormal	Nonparametric	0.768	1.00	0.240	2.00	0.454	0.592	0.473
12_2_110	MW-15022	Appendix IV	Cobalt	ug/L	24	19	79%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	7.06	4.30	0.190	15.0	7.03	0.996	0.235
12_2_114	MW-15022	Appendix IV	Fluoride	ug/L	26	19	73%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	624	1000	100	1000	421	0.675	-0.260
12_2_116	MW-15022	Appendix IV	Lead	ug/L	24	24	100%	2015-12-02 to 2025-04-23		Nonparametric	0.981	1.00	0.550	2.80	0.601	0.612	2.48
12_2_117	MW-15022	Appendix IV	Lithium	ug/L	25	8	32%	2015-12-02 to 2025-04-23	Gamma; Lognormal	Gamma	24.3	20.0	10.0	68.0	17.5	0.719	1.30
12_2_118	MW-15022	Appendix IV	Mercury	ug/L	24	23	96%	2015-12-02 to 2025-04-23		Nonparametric	0.204	0.200	0.200	0.290	0.0184	0.0902	4.90
12_2_119	MW-15022	Appendix IV	Molybdenum	ug/L	25	12	48%	2015-12-02 to 2025-04-23	Normal	Normal	8.66	5.00	0.310	47.6	10.5	1.21	2.34
12_2_125	MW-15022	Appendix IV	Radium-226+228	pCi/L	25	11	44%	2015-12-02 to 2025-04-23	Gamma; Lognormal	Gamma	0.943	0.862	0.190	3.50	0.643	0.681	2.73
12_2_127	MW-15022	Appendix IV	Selenium	ug/L	25	24	96%	2015-12-02 to 2025-04-23		Nonparametric	0.924	1.00	0.110	2.50	0.546	0.590	1.86
12_2_131	MW-15022	Appendix IV	Thallium	ug/L	24	24	100%	2015-12-02 to 2025-04-23		Nonparametric	1.34	1.95	0.380	2.00	0.788	0.587	-0.418
13_2_101	MW-15023	Appendix IV	Antimony	ug/L	23	23	100%	2015-12-02 to 2025-04-22		Nonparametric	0.757	1.00	0.250	1.20	0.382	0.505	-0.603
13_2_102	MW-15023	Appendix IV	Arsenic	ug/L	24	8	33%	2015-12-02 to 2025-04-22	Nonparametric	Nonparametric	3.11	1.00	0.550	27.0	5.64	1.81	3.70
13_2_103	MW-15023	Appendix IV	Barium	ug/L	24	0	0%	2015-12-02 to 2025-04-22	Gamma; Lognormal	Gamma	78.9	63.5	38.0	270	52.9	0.671	2.53
13_2_104	MW-15023	Appendix IV	Beryllium	ug/L	23	23	100%	2015-12-02 to 2025-04-22		Nonparametric	0.722	1.00	0.200	1.20	0.395	0.548	-0.406
13_2_106	MW-15023	Appendix IV	Cadmium	ug/L	23	23	100%	2015-12-02 to 2025-04-22		Nonparametric	0.304	0.200	0.200	1.20	0.284	0.932	3.10
13_2_109	MW-15023	Appendix IV	Chromium	ug/L	24	17	71%	2015-12-02 to 2025-04-22	Gamma; Lognormal	Nonparametric	0.790	1.00	0.250	2.00	0.451	0.572	0.410
13_2_110	MW-15023	Appendix IV	Cobalt	ug/L	23	21	91%	2015-12-02 to 2025-04-22		Nonparametric	7.44	6.00	0.110	15.0	6.96	0.936	0.146
13_2_114	MW-15023	Appendix IV	Fluoride	ug/L	25	16	64%	2015-12-02 to 2025-04-22	Lognormal	Nonparametric	624	1000	89.0	1000	435	0.698	-0.286
13_2_116	MW-15023	Appendix IV	Lead	ug/L	23	23	100%	2015-12-02 to 2025-04-22		Nonparametric	1.00	1.00	0.550	2.80	0.607	0.607	2.44
13_2_117	MW-15023	Appendix IV	Lithium	ug/L	24	5	21%	2015-12-02 to 2025-04-22	Gamma; Lognormal	Gamma	17.7	12.6	8.30	67.0	12.9	0.730	2.74
13_2_118	MW-15023	Appendix IV	Mercury	ug/L	23	22	96%	2015-12-02 to 2025-04-22		Nonparametric	0.215	0.200	0.200	0.550	0.0730	0.339	4.80
13_2_119	MW-15023	Appendix IV	Molybdenum	ug/L	24	4	17%	2015-12-02 to 2025-04-22	Nonparametric	Nonparametric	10.2	6.60	5.00	34.0	8.09	0.796	2.02
13_2_125	MW-15023	Appendix IV	Radium-226+228	pCi/L	24	9	38%	2015-12-02 to 2025-04-22	Gamma; Lognormal; Normal	Normal	0.943	0.690	0.178	3.28	0.715	0.758	1.65
13_2_127	MW-15023	Appendix IV	Selenium	ug/L	24	21	88%	2015-12-02 to 2025-04-22		Nonparametric	0.914	1.00	0.110	2.50	0.564	0.618	1.79
13_2_131	MW-15023	Appendix IV	Thallium	ug/L	23	23	100%	2015-12-02 to 2025-04-22		Nonparametric	1.38	2.00	0.380	2.00	0.777	0.562	-0.539
14_2_101	MW-17001R	Appendix IV	Antimony	ug/L	11	10	91%	2020-05-21 to 2025-04-22		Nonparametric	0.479	0.250	0.120	1.20	0.425	0.887	1.21
14_2_102	MW-17001R	Appendix IV	Arsenic	ug/L	11	5	45%	2020-05-21 to 2025-04-22	Gamma; Lognormal	Gamma	1.67	0.560	0.200	7.30	2.11	1.26	2.22
14_2_103	MW-17001R	Appendix IV	Barium	ug/L	11	0	0%	2020-05-21 to 2025-04-22	Gamma; Lognormal; Normal	Normal	171	180	90.6	300	67.6	0.395	0.446
14_2_104	MW-17001R	Appendix IV	Beryllium	ug/L	11	11	100%	2020-05-21 to 2025-04-22		Nonparametric	0.414	0.250	0.200	1.20	0.389	0.941	1.91
14_2_106	MW-17001R	Appendix IV	Cadmium	ug/L	11	11	100%	2020-05-21 to 2025-04-22		Nonparametric	0.414	0.250	0.200	1.20	0.389	0.941	1.91
14_2_109	MW-17001R	Appendix IV	Chromium	ug/L	11	7	64%	2020-05-21 to 2025-04-22		Nonparametric	0.419	0.250	0.170	1.20	0.388	0.927	1.87
14_2_110	MW-17001R	Appendix IV	Cobalt	ug/L	11	6	55%	2020-05-21 to 2025-04-22	Nonparametric	Nonparametric	0.641	0.520	0.220	2.60	0.674	1.05	2.91
14_2_114	MW-17001R	Appendix IV	Fluoride	ug/L	11	2	18%	2020-05-21 to 2025-04-22	Gamma; Lognormal; Normal	Normal	129	120	100	180	27.0	0.209	0.713
14_2_116	MW-17001R	Appendix IV	Lead	ug/L	11	11	100%	2020-05-21 to 2025-04-22		Nonparametric	1.04	0.550	0.550	2.80	0.888	0.853	1.76
14_2_117	MW-17001R	Appendix IV	Lithium	ug/L	11	0	0%	2020-05-21 to 2025-04-22	Gamma; Lognormal; Normal	Normal	74.8	75.0	25.0	170	42	0.561	1.01
14_2_118	MW-17001R	Appendix IV	Mercury	ug/L	11	11	100%	2020-05-21 to 2025-04-22		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
14_2_119	MW-17001R	Appendix IV	Molybdenum	ug/L	11	6	55%	2020-05-21 to 2025-04-22	Gamma; Lognormal; Normal	Nonparametric	2.22	1.20	0.370	6.20	2.07	0.932	1.52
14_2_125	MW-17001R	Appendix IV	Radium-226+228	pCi/L	11	0	0%	2020-05-21 to 2025-04-22	Normal	Normal	1.01	1.08	0	2.02	0.648	0.643	-0.0186
14_2_127	MW-17001R	Appendix IV	Selenium	ug/L	11	11	100%	2020-05-21 to 2025-04-22		Nonparametric	0.955	0.500	0.500	2.50	0.789	0.827	1.67
14_2_131	MW-17001R	Appendix IV	Thallium	ug/L	11	11	100%	2020-05-21 to 2025-04-22		Nonparametric	0.769	0.380	0.380	1.90	0.610	0.793	1.35

(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
15_2_101	MW-17002	Appendix IV	Antimony	ug/L	17	15	88%	2017-12-07 to 2025-04-23		Nonparametric	0.752	1.00	0.140	2.00	0.557	0.740	0.614
15_2_102	MW-17002	Appendix IV	Arsenic	ug/L	18	0	0%	2017-12-07 to 2025-04-23	Gamma; Lognormal	Gamma	42.1	18.6	0.590	220	56.8	1.35	1.99
15_2_103	MW-17002	Appendix IV	Barium	ug/L	18	0	0%	2017-12-07 to 2025-04-23	Gamma; Lognormal	Gamma	97.7	79.8	39.0	240	50	0.512	1.58
15_2_104	MW-17002	Appendix IV	Beryllium	ug/L	17	16	94%	2017-12-07 to 2025-04-23		Nonparametric	0.617	0.250	0.140	1.20	0.426	0.690	0.189
15_2_106	MW-17002	Appendix IV	Cadmium	ug/L	17	13	76%	2017-12-07 to 2025-04-23		Nonparametric	0.354	0.250	0.200	1.20	0.322	0.909	2.50
15_2_109	MW-17002	Appendix IV	Chromium	ug/L	18	11	61%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	0.673	0.735	0.150	1.20	0.392	0.582	-0.000926
15_2_110	MW-17002	Appendix IV	Cobalt	ug/L	17	15	88%	2017-12-07 to 2025-04-23		Nonparametric	4.80	0.520	0.300	15.0	6.11	1.27	1.09
15_2_114	MW-17002	Appendix IV	Fluoride	ug/L	18	8	44%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Normal	555	315	160	1000	373	0.672	0.383
15_2_116	MW-17002	Appendix IV	Lead	ug/L	17	16	94%	2017-12-07 to 2025-04-23		Nonparametric	1.24	1.00	0.130	2.80	0.927	0.748	1.07
15_2_117	MW-17002	Appendix IV	Lithium	ug/L	18	0	0%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Normal	159	155	46.0	240	55.4	0.348	-0.222
15_2_118	MW-17002	Appendix IV	Mercury	ug/L	17	17	100%	2017-12-07 to 2025-04-23		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
15_2_119	MW-17002	Appendix IV	Molybdenum	ug/L	18	6	33%	2017-12-07 to 2025-04-23	Gamma; Normal	Gamma	492	19.4	2.70	1800	658	1.34	1.00
15_2_125	MW-17002	Appendix IV	Radium-226+228	pCi/L	18	3	17%	2017-12-07 to 2025-04-23	Gamma; Lognormal	Gamma	1.70	1.13	0.100	5.04	1.43	0.838	1.38
15_2_127	MW-17002	Appendix IV	Selenium	ug/L	18	15	83%	2017-12-07 to 2025-04-23		Nonparametric	0.971	1.00	0.110	2.50	0.700	0.721	1.28
15_2_131	MW-17002	Appendix IV	Thallium	ug/L	17	16	94%	2017-12-07 to 2025-04-23		Nonparametric	1.33	1.90	0.120	2.00	0.794	0.596	-0.505
16_2_101	MW-17003	Appendix IV	Antimony	ug/L	16	15	94%	2017-12-07 to 2025-04-23		Nonparametric	0.719	0.625	0.250	2.00	0.537	0.747	0.811
16_2_102	MW-17003	Appendix IV	Arsenic	ug/L	17	2	12%	2017-12-07 to 2025-04-23	Gamma; Lognormal	Gamma	45.8	21.1	1.00	210	64.2	1.40	1.85
16_2_103	MW-17003	Appendix IV	Barium	ug/L	17	0	0%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Normal	91.0	78.1	18.0	320	72.3	0.795	2.16
16_2_104	MW-17003	Appendix IV	Beryllium	ug/L	16	14	88%	2017-12-07 to 2025-04-23		Nonparametric	0.588	0.250	0.150	1.20	0.433	0.736	0.333
16_2_106	MW-17003	Appendix IV	Cadmium	ug/L	16	15	94%	2017-12-07 to 2025-04-23		Nonparametric	0.339	0.250	0.0810	1.20	0.339	0.998	2.42
16_2_109	MW-17003	Appendix IV	Chromium	ug/L	17	12	71%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	0.648	0.520	0.160	1.20	0.404	0.622	0.0938
16_2_110	MW-17003	Appendix IV	Cobalt	ug/L	16	11	69%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	10.3	2.30	0.120	52.0	15.1	1.47	1.93
16_2_114	MW-17003	Appendix IV	Fluoride	ug/L	17	11	65%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	421	120	20.0	1000	442	1.05	0.656
16_2_116	MW-17003	Appendix IV	Lead	ug/L	16	16	100%	2017-12-07 to 2025-04-23		Nonparametric	1.42	1.00	0.550	2.80	0.979	0.688	0.758
16_2_117	MW-17003	Appendix IV	Lithium	ug/L	17	0	0%	2017-12-07 to 2025-04-23	Lognormal	Nonparametric	78.8	25.0	13.0	360	104	1.32	1.82
16_2_118	MW-17003	Appendix IV	Mercury	ug/L	16	16	100%	2017-12-07 to 2025-04-23		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
16_2_119	MW-17003	Appendix IV	Molybdenum	ug/L	17	4	24%	2017-12-07 to 2025-04-23	Gamma; Lognormal	Gamma	33.1	17.0	5.00	120	39.3	1.19	1.54
16_2_125	MW-17003	Appendix IV	Radium-226+228	pCi/L	17	6	35%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Normal	0.970	0.910	0.351	1.55	0.402	0.415	0.00840
16_2_127	MW-17003	Appendix IV	Selenium	ug/L	17	13	76%	2017-12-07 to 2025-04-23		Nonparametric	1.01	1.00	0.130	2.50	0.802	0.793	0.926
16_2_131	MW-17003	Appendix IV	Thallium	ug/L	16	16	100%	2017-12-07 to 2025-04-23		Nonparametric	1.30	1.90	0.380	2.00	0.777	0.595	-0.366
17_2_101	MW-17004	Appendix IV	Antimony	ug/L	17	14	82%	2017-12-06 to 2025-04-23		Nonparametric	0.768	1.00	0.100	2.00	0.537	0.700	0.413
17_2_102	MW-17004	Appendix IV	Arsenic	ug/L	18	2	11%	2017-12-06 to 2025-04-23	Gamma; Lognormal	Gamma	5.48	2.60	0.650	18.0	5.72	1.04	1.35
17_2_103	MW-17004	Appendix IV	Barium	ug/L	18	0	0%	2017-12-06 to 2025-04-23	Gamma; Lognormal	Gamma	182	146	51.0	450	114	0.623	1.20
17_2_104	MW-17004	Appendix IV	Beryllium	ug/L	17	17	100%	2017-12-06 to 2025-04-23		Nonparametric	0.624	0.250	0.200	1.20	0.419	0.672	0.202
17_2_106	MW-17004	Appendix IV	Cadmium	ug/L	17	16	94%	2017-12-06 to 2025-04-23		Nonparametric	0.355	0.250	0.200	1.20	0.325	0.915	2.42
17_2_109	MW-17004	Appendix IV	Chromium	ug/L	18	12	67%	2017-12-06 to 2025-04-23	Lognormal	Nonparametric	1.09	1.00	0.170	7.80	1.72	1.59	3.85
17_2_110	MW-17004	Appendix IV	Cobalt	ug/L	17	11	65%	2017-12-06 to 2025-04-23	Gamma; Lognormal	Nonparametric	5.06	2.60	0.160	15.0	5.97	1.18	1.06
17_2_114	MW-17004	Appendix IV	Fluoride	ug/L	18	13	72%	2017-12-06 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	460	160	67.0	1000	445	0.968	0.473
17_2_116	MW-17004	Appendix IV	Lead	ug/L	17	14	82%	2017-12-06 to 2025-04-23		Nonparametric	2.17	1.00	0.130	19.0	4.42	2.04	3.87
17_2_117	MW-17004	Appendix IV	Lithium	ug/L	18	6	33%	2017-12-06 to 2025-04-23	Lognormal	Nonparametric	26.1	11.5	2.80	71.0	23.8	0.910	0.857
17_2_118	MW-17004	Appendix IV	Mercury	ug/L	17	17	100%	2017-12-06 to 2025-04-23		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
17_2_119	MW-17004	Appendix IV	Molybdenum	ug/L	18	7	39%	2017-12-06 to 2025-04-23	Gamma; Lognormal; Normal	Gamma	13.9	6.70	0.800	46.0	13.8	0.991	1.11

(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_125	MW-17004	Appendix IV	Radium-226+228	pCi/L	18	6	33%	2017-12-06 to 2025-04-23	Nonparametric	Nonparametric	1.14	0.876	0	4.93	1.05	0.921	2.94
17_2_127	MW-17004	Appendix IV	Selenium	ug/L	18	14	78%	2017-12-06 to 2025-04-23		Nonparametric	1.06	1.00	0.150	2.60	0.807	0.761	0.953
17_2_131	MW-17004	Appendix IV	Thallium	ug/L	17	14	82%	2017-12-06 to 2025-04-23		Nonparametric	1.31	1.90	0.120	2.00	0.810	0.619	-0.515
18_2_101	MW-17005	Appendix IV	Antimony	ug/L	17	17	100%	2017-12-06 to 2025-04-22		Nonparametric	0.729	1.00	0.250	2.00	0.521	0.714	0.752
18_2_102	MW-17005	Appendix IV	Arsenic	ug/L	18	13	72%	2017-12-06 to 2025-04-22	Lognormal	Nonparametric	1.00	0.775	0.110	2.90	0.898	0.896	1.45
18_2_103	MW-17005	Appendix IV	Barium	ug/L	18	0	0%	2017-12-06 to 2025-04-22	Gamma; Lognormal	Gamma	155	127	64.0	456	103	0.666	1.84
18_2_104	MW-17005	Appendix IV	Beryllium	ug/L	17	16	94%	2017-12-06 to 2025-04-22		Nonparametric	0.612	0.250	0.0600	1.20	0.432	0.706	0.161
18_2_106	MW-17005	Appendix IV	Cadmium	ug/L	17	17	100%	2017-12-06 to 2025-04-22		Nonparametric	0.341	0.250	0.200	1.20	0.324	0.950	2.58
18_2_109	MW-17005	Appendix IV	Chromium	ug/L	18	11	61%	2017-12-06 to 2025-04-22	Gamma; Lognormal	Nonparametric	0.687	0.740	0.240	1.20	0.389	0.567	0.00929
18_2_110	MW-17005	Appendix IV	Cobalt	ug/L	17	16	94%	2017-12-06 to 2025-04-22		Nonparametric	4.81	0.520	0.360	15.0	6.10	1.27	1.09
18_2_114	MW-17005	Appendix IV	Fluoride	ug/L	18	14	78%	2017-12-06 to 2025-04-22		Nonparametric	454	130	22.0	1000	450	0.992	0.481
18_2_116	MW-17005	Appendix IV	Lead	ug/L	17	16	94%	2017-12-06 to 2025-04-22		Nonparametric	0.975	1.00	0.130	2.80	0.735	0.754	1.96
18_2_117	MW-17005	Appendix IV	Lithium	ug/L	18	3	17%	2017-12-06 to 2025-04-22	Lognormal	Lognormal	12.7	10.0	3.90	47.5	11.2	0.877	2.48
18_2_118	MW-17005	Appendix IV	Mercury	ug/L	17	17	100%	2017-12-06 to 2025-04-22		Nonparametric	0.200	0.200	0.200	0.200	0	0	NA
18_2_119	MW-17005	Appendix IV	Molybdenum	ug/L	18	15	83%	2017-12-06 to 2025-04-22		Nonparametric	3.49	5.00	0.290	7.60	2.42	0.694	-0.0168
18_2_125	MW-17005	Appendix IV	Radium-226+228	pCi/L	18	5	28%	2017-12-06 to 2025-04-22	Lognormal	Lognormal	1.12	0.850	0.320	4.22	0.875	0.781	2.83
18_2_127	MW-17005	Appendix IV	Selenium	ug/L	18	18	100%	2017-12-06 to 2025-04-22		Nonparametric	1.00	1.00	0.500	2.50	0.664	0.664	1.52
18_2_131	MW-17005	Appendix IV	Thallium	ug/L	17	17	100%	2017-12-06 to 2025-04-22		Nonparametric	1.17	1.00	0.380	2.00	0.799	0.685	0.0485
19_2_101	MW-17006	Appendix IV	Antimony	ug/L	17	17	100%	2017-12-06 to 2025-04-24		Nonparametric	0.729	1.00	0.250	2.00	0.521	0.714	0.752
19_2_102	MW-17006	Appendix IV	Arsenic	ug/L	18	7	39%	2017-12-06 to 2025-04-24	Gamma; Normal	Normal	2.83	2.60	0.550	6.60	2.12	0.751	0.382
19_2_103	MW-17006	Appendix IV	Barium	ug/L	18	0	0%	2017-12-06 to 2025-04-24	Gamma; Lognormal; Normal	Normal	95	81.2	65.0	190	32.6	0.343	1.71
19_2_104	MW-17006	Appendix IV	Beryllium	ug/L	17	17	100%	2017-12-06 to 2025-04-24		Nonparametric	0.624	0.250	0.200	1.20	0.419	0.672	0.202
19_2_106	MW-17006	Appendix IV	Cadmium	ug/L	17	17	100%	2017-12-06 to 2025-04-24		Nonparametric	0.341	0.250	0.200	1.20	0.324	0.950	2.58
19_2_109	MW-17006	Appendix IV	Chromium	ug/L	18	15	83%	2017-12-06 to 2025-04-24		Nonparametric	0.654	0.625	0.210	1.20	0.430	0.657	0.0848
19_2_110	MW-17006	Appendix IV	Cobalt	ug/L	17	16	94%	2017-12-06 to 2025-04-24		Nonparametric	4.80	0.520	0.170	15.0	6.11	1.27	1.09
19_2_114	MW-17006	Appendix IV	Fluoride	ug/L	18	9	50%	2017-12-06 to 2025-04-24	Normal	Nonparametric	471	185	22.0	1000	436	0.927	0.471
19_2_116	MW-17006	Appendix IV	Lead	ug/L	17	17	100%	2017-12-06 to 2025-04-24		Nonparametric	1.00	1.00	0.550	2.80	0.712	0.712	2.15
19_2_117	MW-17006	Appendix IV	Lithium	ug/L	18	0	0%	2017-12-06 to 2025-04-24	Gamma; Lognormal; Normal	Normal	30.3	30.0	12.0	57.0	9.95	0.328	0.607
19_2_118	MW-17006	Appendix IV	Mercury	ug/L	17	16	94%	2017-12-06 to 2025-04-24		Nonparametric	0.259	0.200	0.200	1.20	0.243	0.937	4.12
19_2_119	MW-17006	Appendix IV	Molybdenum	ug/L	18	13	72%	2017-12-06 to 2025-04-24	Gamma; Lognormal	Nonparametric	7.02	5.00	1.20	53.0	11.8	1.68	3.87
19_2_125	MW-17006	Appendix IV	Radium-226+228	pCi/L	18	6	33%	2017-12-06 to 2025-04-24	Gamma; Lognormal; Normal	Normal	0.999	0.861	0.210	2.66	0.616	0.616	1.50
19_2_127	MW-17006	Appendix IV	Selenium	ug/L	18	17	94%	2017-12-06 to 2025-04-24		Nonparametric	0.980	1.00	0.140	2.50	0.685	0.699	1.38
19_2_131	MW-17006	Appendix IV	Thallium	ug/L	17	17	100%	2017-12-06 to 2025-04-24		Nonparametric	1.17	1.00	0.380	2.00	0.799	0.685	0.0485

[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
01_2_101	MW-15009	Appendix IV	Antimony	ug/L	23	22	96%	2015-12-01 to 2025-04-23		Nonparametric	1.00	1.00	1.00	1.00	NA	NA	NA
01_2_102	MW-15009	Appendix IV	Arsenic	ug/L	24	1	4%	2015-12-01 to 2025-04-23	Gamma; Normal	Gamma	13	12.0	0.740	45.0	11.3	0.872	1.11
01_2_103	MW-15009	Appendix IV	Barium	ug/L	24	0	0%	2015-12-01 to 2025-04-23	Nonparametric	Nonparametric	50.5	21.8	9.00	250	55.8	1.11	2.21
01_2_109	MW-15009	Appendix IV	Chromium	ug/L	24	20	83%	2015-12-01 to 2025-04-23		Nonparametric	0.877	0.660	0.190	2.00	0.828	0.944	1.08
01_2_110	MW-15009	Appendix IV	Cobalt	ug/L	23	21	91%	2015-12-01 to 2025-04-23		Nonparametric	0.130	0.130	0.100	0.160	0.0424	0.326	NA
01_2_114	MW-15009	Appendix IV	Fluoride	ug/L	24	18	75%	2015-12-01 to 2025-04-23	Gamma; Normal	Nonparametric	92.8	96.0	37.0	120	30.6	0.329	-1.41
01_2_117	MW-15009	Appendix IV	Lithium	ug/L	24	0	0%	2015-12-01 to 2025-04-23	Gamma; Lognormal; Normal	Normal	24.2	21.0	11.0	63.9	11.9	0.490	1.85
01_2_119	MW-15009	Appendix IV	Molybdenum	ug/L	24	6	25%	2015-12-01 to 2025-04-23	Nonparametric	Nonparametric	25.0	16.0	0.560	60.0	22.4	0.896	0.284
01_2_125	MW-15009	Appendix IV	Radium-226+228	pCi/L	24	12	50%	2015-12-01 to 2025-04-23	Normal	Nonparametric	0.583	0.729	0.0300	1.03	0.366	0.627	-0.481
01_2_127	MW-15009	Appendix IV	Selenium	ug/L	24	23	96%	2015-12-01 to 2025-04-23		Nonparametric	2.00	2.00	2.00	2.00	NA	NA	NA
02_2_102	MW-15010	Appendix IV	Arsenic	ug/L	25	22	88%	2015-12-01 to 2025-04-22		Nonparametric	0.297	0.330	0.150	0.410	0.133	0.449	-1.06
02_2_103	MW-15010	Appendix IV	Barium	ug/L	25	0	0%	2015-12-01 to 2025-04-22	Gamma; Lognormal	Gamma	76.8	61.0	28.0	210	46.1	0.600	1.24
02_2_104	MW-15010	Appendix IV	Beryllium	ug/L	24	23	96%	2015-12-01 to 2025-04-22		Nonparametric	0.0580	0.0580	0.0580	0.0580	NA	NA	NA
02_2_109	MW-15010	Appendix IV	Chromium	ug/L	25	15	60%	2015-12-01 to 2025-04-22	Nonparametric	Nonparametric	0.524	0.290	0.210	2.00	0.568	1.08	2.42
02_2_110	MW-15010	Appendix IV	Cobalt	ug/L	24	20	83%	2015-12-01 to 2025-04-22		Nonparametric	0.340	0.345	0.110	0.560	0.223	0.656	-0.0479
02_2_114	MW-15010	Appendix IV	Fluoride	ug/L	26	15	58%	2015-12-01 to 2025-04-22	Gamma; Lognormal; Normal	Nonparametric	324	310	260	410	48.0	0.148	0.448
02_2_117	MW-15010	Appendix IV	Lithium	ug/L	25	0	0%	2015-12-01 to 2025-04-22	Gamma; Lognormal	Gamma	30.4	28.0	14.0	54.0	12	0.394	0.527
02_2_119	MW-15010	Appendix IV	Molybdenum	ug/L	25	11	44%	2015-12-01 to 2025-04-22	Gamma; Lognormal; Normal	Gamma	11.9	8.00	1.10	33.0	11.5	0.960	0.712
02_2_125	MW-15010	Appendix IV	Radium-226+228	pCi/L	25	11	44%	2015-12-01 to 2025-04-22	Gamma; Lognormal; Normal	Normal	1.13	1.02	0.280	2.03	0.587	0.521	0.208
02_2_127	MW-15010	Appendix IV	Selenium	ug/L	25	23	92%	2015-12-01 to 2025-04-22		Nonparametric	1.00	1.00	1.00	1.00	0	0	NA
03_2_102	MW-15013	Appendix IV	Arsenic	ug/L	24	19	79%	2015-12-01 to 2025-04-24	Gamma; Lognormal; Normal	Nonparametric	0.904	0.780	0.200	2.00	0.760	0.841	0.698
03_2_103	MW-15013	Appendix IV	Barium	ug/L	24	0	0%	2015-12-01 to 2025-04-24	Nonparametric	Nonparametric	72.5	51.5	31.0	180	39.9	0.550	1.32
03_2_104	MW-15013	Appendix IV	Beryllium	ug/L	23	22	96%	2015-12-01 to 2025-04-24		Nonparametric	0.280	0.280	0.280	0.280	NA	NA	NA
03_2_109	MW-15013	Appendix IV	Chromium	ug/L	24	19	79%	2015-12-01 to 2025-04-24	Gamma; Lognormal; Normal	Nonparametric	1.33	1.00	0.140	2.50	0.929	0.699	0.0863
03_2_110	MW-15013	Appendix IV	Cobalt	ug/L	23	19	83%	2015-12-01 to 2025-04-24		Nonparametric	0.166	0.115	0.0820	0.350	0.124	0.750	1.90
03_2_114	MW-15013	Appendix IV	Fluoride	ug/L	25	17	68%	2015-12-01 to 2025-04-24	Gamma; Lognormal; Normal	Nonparametric	226	200	97.0	490	126	0.557	1.42
03_2_116	MW-15013	Appendix IV	Lead	ug/L	23	22	96%	2015-12-01 to 2025-04-24		Nonparametric	4.70	4.70	4.70	4.70	NA	NA	NA
03_2_117	MW-15013	Appendix IV	Lithium	ug/L	24	0	0%	2015-12-01 to 2025-04-24	Lognormal	Lognormal	23.9	22.0	13.0	46.0	8.32	0.348	1.14
03_2_119	MW-15013	Appendix IV	Molybdenum	ug/L	24	5	21%	2015-12-01 to 2025-04-24	Gamma; Lognormal	Gamma	11.5	7.70	0.620	77.2	17.1	1.48	3.45
03_2_125	MW-15013	Appendix IV	Radium-226+228	pCi/L	24	9	38%	2015-12-01 to 2025-04-24	Gamma; Lognormal; Normal	Normal	0.709	0.596	0.160	1.19	0.306	0.432	-0.0357
03_2_127	MW-15013	Appendix IV	Selenium	ug/L	24	21	88%	2015-12-01 to 2025-04-24		Nonparametric	0.727	0.900	0.280	1.00	0.390	0.537	-1.60
03_2_131	MW-15013	Appendix IV	Thallium	ug/L	23	22	96%	2015-12-01 to 2025-04-24		Nonparametric	0.140	0.140	0.140	0.140	NA	NA	NA
04_2_102	MW-15014R	Appendix IV	Arsenic	ug/L	9	5	56%	2022-02-01 to 2025-04-24		Nonparametric	0.585	0.270	0.200	1.60	0.678	1.16	1.98
04_2_103	MW-15014R	Appendix IV	Barium	ug/L	9	0	0%	2022-02-01 to 2025-04-24	Gamma; Lognormal; Normal	Normal	173	170	160	200	14.1	0.0816	0.947
04_2_104	MW-15014R	Appendix IV	Beryllium	ug/L	9	8	89%	2022-02-01 to 2025-04-24		Nonparametric	0.100	0.100	0.100	0.100	NA	NA	NA
04_2_109	MW-15014R	Appendix IV	Chromium	ug/L	9	8	89%	2022-02-01 to 2025-04-24		Nonparametric	0.430	0.430	0.430	0.430	NA	NA	NA
04_2_110	MW-15014R	Appendix IV	Cobalt	ug/L	9	8	89%	2022-02-01 to 2025-04-24		Nonparametric	0.130	0.130	0.130	0.130	NA	NA	NA
04_2_114	MW-15014R	Appendix IV	Fluoride	ug/L	9	1	11%	2022-02-01 to 2025-04-24	Gamma; Lognormal; Normal	Normal	256	270	180	300	44.1	0.172	-1.02
04_2_117	MW-15014R	Appendix IV	Lithium	ug/L	9	0	0%	2022-02-01 to 2025-04-24	Lognormal	Lognormal	57.2	48.0	36.0	130	28.8	0.503	2.46
04_2_119	MW-15014R	Appendix IV	Molybdenum	ug/L	9	2	22%	2022-02-01 to 2025-04-24	Gamma; Lognormal	Gamma	3.28	2.00	0.680	11.0	3.53	1.08	2.27
04_2_125	MW-15014R	Appendix IV	Radium-226+228	pCi/L	9	0	0%	2022-02-01 to 2025-04-24	Gamma; Lognormal; Normal	Normal	0.877	0.720	0.230	1.76	0.536	0.611	0.622
04_2_127	MW-15014R	Appendix IV	Selenium	ug/L	9	8	89%	2022-02-01 to 2025-04-24		Nonparametric	0.110	0.110	0.110	0.110	NA	NA	NA
05_2_101	MW-15015R	Appendix IV	Antimony	ug/L	12	6	50%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Nonparametric	3.43	1.27	0.410	13.0	4.87	1.42	2.09

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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
05_2_102	MW-15015R	Appendix IV	Arsenic	ug/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	22.7	21.0	3.20	55.0	15.7	0.690	0.868
05_2_103	MW-15015R	Appendix IV	Barium	ug/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	113	114	60.0	170	35.4	0.313	-0.00731
05_2_104	MW-15015R	Appendix IV	Beryllium	ug/L	12	11	92%	2020-05-21 to 2025-04-24		Nonparametric	0.0580	0.0580	0.0580	0.0580	NA	NA	NA
05_2_109	MW-15015R	Appendix IV	Chromium	ug/L	12	10	83%	2020-05-21 to 2025-04-24		Nonparametric	0.235	0.235	0.220	0.250	0.0212	0.0903	NA
05_2_110	MW-15015R	Appendix IV	Cobalt	ug/L	12	7	58%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Nonparametric	0.262	0.220	0.150	0.420	0.105	0.402	0.871
05_2_114	MW-15015R	Appendix IV	Fluoride	ug/L	12	6	50%	2020-05-21 to 2025-04-24	Gamma; Normal	Nonparametric	106	110	12.0	180	56.5	0.533	-0.658
05_2_117	MW-15015R	Appendix IV	Lithium	ug/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	47.6	44.5	3.80	120	28.6	0.600	1.31
05_2_119	MW-15015R	Appendix IV	Molybdenum	ug/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Lognormal	Gamma	130	85.0	2.00	430	136	1.04	0.944
05_2_125	MW-15015R	Appendix IV	Radium-226+228	pCi/L	12	2	17%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	1.03	0.799	0.250	2.12	0.663	0.646	0.810
05_2_127	MW-15015R	Appendix IV	Selenium	ug/L	12	7	58%	2020-05-21 to 2025-04-24	Lognormal	Nonparametric	0.580	0.290	0.240	1.10	0.431	0.743	0.631
06_2_101	MW-15016R	Appendix IV	Antimony	ug/L	12	10	83%	2020-05-21 to 2025-04-24		Nonparametric	0.180	0.180	0.140	0.220	0.0566	0.314	NA
06_2_102	MW-15016R	Appendix IV	Arsenic	ug/L	12	1	8%	2020-05-21 to 2025-04-24	Nonparametric	Nonparametric	2.90	1.80	1.30	10.1	2.66	0.916	2.45
06_2_103	MW-15016R	Appendix IV	Barium	ug/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	1009	980	789	1300	155	0.154	0.351
06_2_104	MW-15016R	Appendix IV	Beryllium	ug/L	12	11	92%	2020-05-21 to 2025-04-24		Nonparametric	0.0850	0.0850	0.0850	0.0850	NA	NA	NA
06_2_109	MW-15016R	Appendix IV	Chromium	ug/L	12	2	17%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	0.837	0.795	0.650	1.20	0.182	0.217	1.19
06_2_110	MW-15016R	Appendix IV	Cobalt	ug/L	12	1	8%	2020-05-21 to 2025-04-24	Gamma; Lognormal; Normal	Normal	1.09	0.960	0.660	1.90	0.369	0.338	1.30
06_2_114	MW-15016R	Appendix IV	Fluoride	ug/L	12	9	75%	2020-05-21 to 2025-04-24		Nonparametric	91.3	81.0	53.0	140	44.4	0.486	0.990
06_2_116	MW-15016R	Appendix IV	Lead	ug/L	12	10	83%	2020-05-21 to 2025-04-24		Nonparametric	0.0795	0.0795	0.0590	0.100	0.0290	0.365	NA
06_2_117	MW-15016R	Appendix IV	Lithium	ug/L	12	3	25%	2020-05-21 to 2025-04-24	Nonparametric	Nonparametric	17.4	5.20	3.70	110	34.8	1.99	2.98
06_2_119	MW-15016R	Appendix IV	Molybdenum	ug/L	12	8	67%	2020-05-21 to 2025-04-24		Nonparametric	3.35	2.75	0.390	7.50	3.24	0.968	0.719
06_2_125	MW-15016R	Appendix IV	Radium-226+228	pCi/L	12	0	0%	2020-05-21 to 2025-04-24	Gamma; Normal	Normal	4.12	4.12	1.60	5.64	1.17	0.284	-0.683
06_2_127	MW-15016R	Appendix IV	Selenium	ug/L	12	8	67%	2020-05-21 to 2025-04-24		Nonparametric	0.438	0.165	0.120	1.30	0.576	1.32	1.98
07_2_102	MW-15017	Appendix IV	Arsenic	ug/L	24	1	4%	2015-12-01 to 2025-04-23	Nonparametric	Nonparametric	3.94	2.10	1.60	13.0	3.58	0.909	1.84
07_2_103	MW-15017	Appendix IV	Barium	ug/L	24	0	0%	2015-12-01 to 2025-04-23	Gamma; Lognormal; Normal	Normal	981	980	772	1200	96.1	0.0980	0.0844
07_2_104	MW-15017	Appendix IV	Beryllium	ug/L	23	21	91%	2015-12-01 to 2025-04-23		Nonparametric	0.0430	0.0430	0.0200	0.0660	0.0325	0.756	NA
07_2_109	MW-15017	Appendix IV	Chromium	ug/L	24	1	4%	2015-12-01 to 2025-04-23	Gamma; Lognormal; Normal	Normal	3.28	3.10	0.510	11.0	2.64	0.803	1.49
07_2_110	MW-15017	Appendix IV	Cobalt	ug/L	23	13	57%	2015-12-01 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	0.889	0.875	0.500	1.30	0.237	0.267	0.228
07_2_114	MW-15017	Appendix IV	Fluoride	ug/L	25	24	96%	2015-12-01 to 2025-04-23		Nonparametric	360	360	360	360	NA	NA	NA
07_2_117	MW-15017	Appendix IV	Lithium	ug/L	24	16	67%	2015-12-01 to 2025-04-23	Lognormal	Nonparametric	7.12	5.15	3.50	18.0	5.00	0.702	1.88
07_2_119	MW-15017	Appendix IV	Molybdenum	ug/L	24	21	88%	2015-12-01 to 2025-04-23		Nonparametric	0.687	0.360	0.200	1.50	0.709	1.03	1.63
07_2_125	MW-15017	Appendix IV	Radium-226+228	pCi/L	24	0	0%	2015-12-01 to 2025-04-23	Gamma; Lognormal; Normal	Normal	4.80	4.84	3.00	5.89	0.663	0.138	-0.592
07_2_127	MW-15017	Appendix IV	Selenium	ug/L	24	12	50%	2015-12-01 to 2025-04-23	Gamma	Nonparametric	2.71	2.55	0.150	8.00	1.98	0.732	1.71
08_2_102	MW-15018	Appendix IV	Arsenic	ug/L	24	14	58%	2015-12-02 to 2025-04-23	Gamma; Lognormal	Nonparametric	1.12	0.725	0.440	3.80	1.05	0.939	2.28
08_2_103	MW-15018	Appendix IV	Barium	ug/L	24	0	0%	2015-12-02 to 2025-04-23	Nonparametric	Nonparametric	149	142	93.0	280	38.9	0.262	2.17
08_2_104	MW-15018	Appendix IV	Beryllium	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.140	0.140	0.140	0.140	NA	NA	NA
08_2_109	MW-15018	Appendix IV	Chromium	ug/L	24	10	42%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Normal	0.754	0.635	0.280	1.80	0.411	0.546	1.16
08_2_110	MW-15018	Appendix IV	Cobalt	ug/L	23	19	83%	2015-12-02 to 2025-04-23		Nonparametric	0.380	0.400	0.160	0.560	0.170	0.447	-0.612
08_2_114	MW-15018	Appendix IV	Fluoride	ug/L	25	15	60%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	177	180	110	250	51.9	0.293	0.0649
08_2_116	MW-15018	Appendix IV	Lead	ug/L	23	17	74%	2015-12-02 to 2025-04-23	Lognormal	Nonparametric	1.19	0.715	0.310	3.90	1.34	1.13	2.35
08_2_117	MW-15018	Appendix IV	Lithium	ug/L	24	0	0%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Normal	20.8	21.0	12.0	33.0	5.28	0.254	0.247
08_2_119	MW-15018	Appendix IV	Molybdenum	ug/L	24	22	92%	2015-12-02 to 2025-04-23		Nonparametric	0.865	0.865	0.530	1.20	0.474	0.548	NA
08_2_125	MW-15018	Appendix IV	Radium-226+228	pCi/L	24	4	17%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Normal	1.17	1.20	0.554	1.77	0.339	0.290	-0.142
08_2_127	MW-15018	Appendix IV	Selenium	ug/L	24	20	83%	2015-12-02 to 2025-04-23		Nonparametric	1.41	0.720	0.190	4.00	1.76	1.25	1.79

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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
08_2_131	MW-15018	Appendix IV	Thallium	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.170	0.170	0.170	0.170	NA	NA	NA
09_2_102	MW-15019	Appendix IV	Arsenic	ug/L	24	15	62%	2015-12-02 to 2025-04-23	Gamma; Lognormal	Nonparametric	1.64	0.580	0.400	8.10	2.48	1.51	2.78
09_2_103	MW-15019	Appendix IV	Barium	ug/L	24	0	0%	2015-12-02 to 2025-04-23	Nonparametric	Nonparametric	205	132	78.0	640	149	0.729	1.41
09_2_104	MW-15019	Appendix IV	Beryllium	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.0580	0.0580	0.0580	0.0580	NA	NA	NA
09_2_106	MW-15019	Appendix IV	Cadmium	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.0780	0.0780	0.0780	0.0780	NA	NA	NA
09_2_109	MW-15019	Appendix IV	Chromium	ug/L	24	14	58%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	0.653	0.590	0.300	1.00	0.246	0.377	0.318
09_2_110	MW-15019	Appendix IV	Cobalt	ug/L	23	13	57%	2015-12-02 to 2025-04-23	Nonparametric	Nonparametric	0.856	0.690	0.590	1.80	0.406	0.475	1.94
09_2_114	MW-15019	Appendix IV	Fluoride	ug/L	25	23	92%	2015-12-02 to 2025-04-23		Nonparametric	75.5	75.5	51.0	100	34.6	0.459	NA
09_2_116	MW-15019	Appendix IV	Lead	ug/L	23	19	83%	2015-12-02 to 2025-04-23		Nonparametric	0.400	0.255	0.160	0.930	0.363	0.907	1.71
09_2_117	MW-15019	Appendix IV	Lithium	ug/L	24	3	12%	2015-12-02 to 2025-04-23	Nonparametric	Nonparametric	18.8	22.0	1.20	33.0	9.40	0.499	-0.738
09_2_119	MW-15019	Appendix IV	Molybdenum	ug/L	24	20	83%	2015-12-02 to 2025-04-23		Nonparametric	3.57	2.45	0.580	8.80	3.74	1.05	1.31
09_2_125	MW-15019	Appendix IV	Radium-226+228	pCi/L	24	5	21%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Normal	1.53	1.26	0.331	3.81	0.868	0.568	1.11
09_2_127	MW-15019	Appendix IV	Selenium	ug/L	24	19	79%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	0.766	0.360	0.120	2.00	0.817	1.07	1.06
09_2_131	MW-15019	Appendix IV	Thallium	ug/L	23	20	87%	2015-12-02 to 2025-04-23		Nonparametric	0.319	0.280	0.0970	0.580	0.244	0.764	0.701
10_2_102	MW-15020	Appendix IV	Arsenic	ug/L	24	18	75%	2015-12-02 to 2025-04-22	Gamma; Lognormal; Normal	Nonparametric	0.418	0.385	0.230	0.700	0.190	0.454	0.551
10_2_103	MW-15020	Appendix IV	Barium	ug/L	24	0	0%	2015-12-02 to 2025-04-22	Normal	Normal	174	149	47.0	393	120	0.691	0.523
10_2_109	MW-15020	Appendix IV	Chromium	ug/L	24	13	54%	2015-12-02 to 2025-04-22	Gamma; Lognormal	Nonparametric	0.707	0.540	0.260	2.00	0.509	0.720	1.85
10_2_110	MW-15020	Appendix IV	Cobalt	ug/L	23	19	83%	2015-12-02 to 2025-04-22		Nonparametric	0.325	0.245	0.180	0.630	0.209	0.643	1.71
10_2_114	MW-15020	Appendix IV	Fluoride	ug/L	25	22	88%	2015-12-02 to 2025-04-22		Nonparametric	95.0	120	15.0	150	70.9	0.746	-1.39
10_2_116	MW-15020	Appendix IV	Lead	ug/L	23	22	96%	2015-12-02 to 2025-04-22		Nonparametric	0.710	0.710	0.710	0.710	NA	NA	NA
10_2_117	MW-15020	Appendix IV	Lithium	ug/L	24	4	17%	2015-12-02 to 2025-04-22	Normal	Normal	12.3	14.0	4.60	20.0	4.85	0.393	-0.389
10_2_119	MW-15020	Appendix IV	Molybdenum	ug/L	24	23	96%	2015-12-02 to 2025-04-22		Nonparametric	0.250	0.250	0.250	0.250	NA	NA	NA
10_2_125	MW-15020	Appendix IV	Radium-226+228	pCi/L	24	6	25%	2015-12-02 to 2025-04-22	Gamma; Lognormal; Normal	Normal	1.95	1.97	0.652	4.68	1.01	0.520	1.01
10_2_127	MW-15020	Appendix IV	Selenium	ug/L	24	21	88%	2015-12-02 to 2025-04-22		Nonparametric	1.47	1.40	1.00	2.00	0.503	0.343	0.586
11_2_101	MW-15021	Appendix IV	Antimony	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.150	0.150	0.150	0.150	NA	NA	NA
11_2_102	MW-15021	Appendix IV	Arsenic	ug/L	24	6	25%	2015-12-02 to 2025-04-23	Gamma; Normal	Normal	1.39	1.30	0.120	3.00	0.662	0.478	0.492
11_2_103	MW-15021	Appendix IV	Barium	ug/L	24	0	0%	2015-12-02 to 2025-04-23	Nonparametric	Nonparametric	297	251	211	480	79.2	0.267	0.874
11_2_104	MW-15021	Appendix IV	Beryllium	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.0240	0.0240	0.0240	0.0240	NA	NA	NA
11_2_109	MW-15021	Appendix IV	Chromium	ug/L	24	6	25%	2015-12-02 to 2025-04-23	Lognormal	Lognormal	1.23	1.00	0.710	2.00	0.513	0.417	0.801
11_2_110	MW-15021	Appendix IV	Cobalt	ug/L	23	14	61%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	0.836	0.890	0.470	1.00	0.168	0.201	-1.33
11_2_114	MW-15021	Appendix IV	Fluoride	ug/L	25	23	92%	2015-12-02 to 2025-04-23		Nonparametric	40.5	40.5	13.0	68.0	38.9	0.960	NA
11_2_117	MW-15021	Appendix IV	Lithium	ug/L	24	18	75%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	2.92	2.85	2.10	3.70	0.682	0.234	0.163
11_2_118	MW-15021	Appendix IV	Mercury	ug/L	23	22	96%	2015-12-02 to 2025-04-23		Nonparametric	0.750	0.750	0.750	0.750	NA	NA	NA
11_2_125	MW-15021	Appendix IV	Radium-226+228	pCi/L	24	3	12%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Normal	1.71	1.53	0.490	3.24	0.713	0.418	0.459
11_2_127	MW-15021	Appendix IV	Selenium	ug/L	24	15	62%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	1.23	1.00	0.120	4.00	1.23	0.998	1.57
12_2_101	MW-15022	Appendix IV	Antimony	ug/L	24	23	96%	2015-12-02 to 2025-04-23		Nonparametric	1.90	1.90	1.90	1.90	NA	NA	NA
12_2_102	MW-15022	Appendix IV	Arsenic	ug/L	25	10	40%	2015-12-02 to 2025-04-23	Normal	Normal	3.77	4.00	0.190	8.00	2.94	0.782	0.0526
12_2_103	MW-15022	Appendix IV	Barium	ug/L	25	0	0%	2015-12-02 to 2025-04-23	Lognormal	Lognormal	168	140	102	290	53.6	0.319	0.717
12_2_109	MW-15022	Appendix IV	Chromium	ug/L	25	17	68%	2015-12-02 to 2025-04-23	Gamma; Lognormal	Nonparametric	0.692	0.380	0.240	2.00	0.616	0.890	1.62
12_2_110	MW-15022	Appendix IV	Cobalt	ug/L	24	19	79%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	0.332	0.350	0.190	0.520	0.125	0.378	0.685
12_2_114	MW-15022	Appendix IV	Fluoride	ug/L	26	19	73%	2015-12-02 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	233	160	110	440	134	0.577	0.746
12_2_117	MW-15022	Appendix IV	Lithium	ug/L	25	8	32%	2015-12-02 to 2025-04-23	Gamma; Lognormal	Gamma	31	25.0	11.0	68.0	17.5	0.566	0.937
12_2_118	MW-15022	Appendix IV	Mercury	ug/L	24	23	96%	2015-12-02 to 2025-04-23		Nonparametric	0.290	0.290	0.290	0.290	NA	NA	NA

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Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
12_2_119	MW-15022	Appendix IV	Molybdenum	ug/L	25	12	48%	2015-12-02 to 2025-04-23	Normal	Normal	13.6	13.6	0.310	47.6	12.6	0.927	1.57
12_2_125	MW-15022	Appendix IV	Radium-226+228	pCi/L	25	11	44%	2015-12-02 to 2025-04-23	Gamma; Lognormal	Gamma	1.04	0.870	0.190	3.50	0.779	0.747	2.65
12_2_127	MW-15022	Appendix IV	Selenium	ug/L	25	24	96%	2015-12-02 to 2025-04-23		Nonparametric	0.110	0.110	0.110	0.110	NA	NA	NA
13_2_102	MW-15023	Appendix IV	Arsenic	ug/L	24	8	33%	2015-12-02 to 2025-04-22	Nonparametric	Nonparametric	4.08	1.95	0.590	27.0	6.75	1.65	2.99
13_2_103	MW-15023	Appendix IV	Barium	ug/L	24	0	0%	2015-12-02 to 2025-04-22	Gamma; Lognormal	Gamma	78.9	63.5	38.0	270	52.9	0.671	2.53
13_2_109	MW-15023	Appendix IV	Chromium	ug/L	24	17	71%	2015-12-02 to 2025-04-22	Gamma; Lognormal	Nonparametric	0.650	0.300	0.250	2.00	0.653	1.01	1.90
13_2_110	MW-15023	Appendix IV	Cobalt	ug/L	23	21	91%	2015-12-02 to 2025-04-22		Nonparametric	0.110	0.110	0.110	0.110	0	0	NA
13_2_114	MW-15023	Appendix IV	Fluoride	ug/L	25	16	64%	2015-12-02 to 2025-04-22	Lognormal	Nonparametric	143	120	89.0	260	68.0	0.474	1.39
13_2_117	MW-15023	Appendix IV	Lithium	ug/L	24	5	21%	2015-12-02 to 2025-04-22	Gamma; Lognormal	Gamma	19.7	15.0	8.30	67.0	13.9	0.703	2.46
13_2_118	MW-15023	Appendix IV	Mercury	ug/L	23	22	96%	2015-12-02 to 2025-04-22		Nonparametric	0.550	0.550	0.550	0.550	NA	NA	NA
13_2_119	MW-15023	Appendix IV	Molybdenum	ug/L	24	4	17%	2015-12-02 to 2025-04-22	Nonparametric	Nonparametric	11.2	7.05	5.10	34.0	8.51	0.761	1.78
13_2_125	MW-15023	Appendix IV	Radium-226+228	pCi/L	24	9	38%	2015-12-02 to 2025-04-22	Gamma; Lognormal; Normal	Normal	0.889	0.599	0.178	3.28	0.797	0.897	2.14
13_2_127	MW-15023	Appendix IV	Selenium	ug/L	24	21	88%	2015-12-02 to 2025-04-22		Nonparametric	0.477	0.320	0.110	1.00	0.465	0.976	1.34
14_2_101	MW-17001R	Appendix IV	Antimony	ug/L	11	10	91%	2020-05-21 to 2025-04-22		Nonparametric	0.120	0.120	0.120	0.120	NA	NA	NA
14_2_102	MW-17001R	Appendix IV	Arsenic	ug/L	11	5	45%	2020-05-21 to 2025-04-22	Gamma; Lognormal	Gamma	1.84	0.635	0.200	7.30	2.75	1.49	2.17
14_2_103	MW-17001R	Appendix IV	Barium	ug/L	11	0	0%	2020-05-21 to 2025-04-22	Gamma; Lognormal; Normal	Normal	171	180	90.6	300	67.6	0.395	0.446
14_2_109	MW-17001R	Appendix IV	Chromium	ug/L	11	7	64%	2020-05-21 to 2025-04-22		Nonparametric	0.240	0.230	0.170	0.330	0.0779	0.325	0.330
14_2_110	MW-17001R	Appendix IV	Cobalt	ug/L	11	6	55%	2020-05-21 to 2025-04-22	Nonparametric	Nonparametric	0.370	0.260	0.220	0.830	0.258	0.698	2.18
14_2_114	MW-17001R	Appendix IV	Fluoride	ug/L	11	2	18%	2020-05-21 to 2025-04-22	Gamma; Lognormal; Normal	Normal	136	130	100	180	25.5	0.188	0.582
14_2_117	MW-17001R	Appendix IV	Lithium	ug/L	11	0	0%	2020-05-21 to 2025-04-22	Gamma; Lognormal; Normal	Normal	74.8	75.0	25.0	170	42	0.561	1.01
14_2_119	MW-17001R	Appendix IV	Molybdenum	ug/L	11	6	55%	2020-05-21 to 2025-04-22	Gamma; Lognormal; Normal	Nonparametric	1.44	1.90	0.370	2.50	0.976	0.678	-0.354
14_2_125	MW-17001R	Appendix IV	Radium-226+228	pCi/L	11	0	0%	2020-05-21 to 2025-04-22	Normal	Normal	1.01	1.08	0	2.02	0.648	0.643	-0.0186
15_2_101	MW-17002	Appendix IV	Antimony	ug/L	17	15	88%	2017-12-07 to 2025-04-23		Nonparametric	0.820	0.820	0.140	1.50	0.962	1.17	NA
15_2_102	MW-17002	Appendix IV	Arsenic	ug/L	18	0	0%	2017-12-07 to 2025-04-23	Gamma; Lognormal	Gamma	42.1	18.6	0.590	220	56.8	1.35	1.99
15_2_103	MW-17002	Appendix IV	Barium	ug/L	18	0	0%	2017-12-07 to 2025-04-23	Gamma; Lognormal	Gamma	97.7	79.8	39.0	240	50	0.512	1.58
15_2_104	MW-17002	Appendix IV	Beryllium	ug/L	17	16	94%	2017-12-07 to 2025-04-23		Nonparametric	0.140	0.140	0.140	0.140	NA	NA	NA
15_2_106	MW-17002	Appendix IV	Cadmium	ug/L	17	13	76%	2017-12-07 to 2025-04-23		Nonparametric	0.305	0.305	0.260	0.350	0.0520	0.170	0
15_2_109	MW-17002	Appendix IV	Chromium	ug/L	18	11	61%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	0.317	0.330	0.150	0.470	0.103	0.325	-0.181
15_2_110	MW-17002	Appendix IV	Cobalt	ug/L	17	15	88%	2017-12-07 to 2025-04-23		Nonparametric	0.360	0.360	0.300	0.420	0.0849	0.236	NA
15_2_114	MW-17002	Appendix IV	Fluoride	ug/L	18	8	44%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Normal	279	255	160	530	100	0.360	1.89
15_2_116	MW-17002	Appendix IV	Lead	ug/L	17	16	94%	2017-12-07 to 2025-04-23		Nonparametric	0.130	0.130	0.130	0.130	NA	NA	NA
15_2_117	MW-17002	Appendix IV	Lithium	ug/L	18	0	0%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Normal	159	155	46.0	240	55.4	0.348	-0.222
15_2_119	MW-17002	Appendix IV	Molybdenum	ug/L	18	6	33%	2017-12-07 to 2025-04-23	Gamma; Normal	Gamma	735	735	2.70	1800	689	0.937	0.341
15_2_125	MW-17002	Appendix IV	Radium-226+228	pCi/L	18	3	17%	2017-12-07 to 2025-04-23	Gamma; Lognormal	Gamma	1.38	1.02	0.100	5.04	1.23	0.892	2.14
15_2_127	MW-17002	Appendix IV	Selenium	ug/L	18	15	83%	2017-12-07 to 2025-04-23		Nonparametric	0.490	0.260	0.110	1.10	0.534	1.09	1.58
15_2_131	MW-17002	Appendix IV	Thallium	ug/L	17	16	94%	2017-12-07 to 2025-04-23		Nonparametric	0.120	0.120	0.120	0.120	NA	NA	NA
16_2_101	MW-17003	Appendix IV	Antimony	ug/L	16	15	94%	2017-12-07 to 2025-04-23		Nonparametric	1.10	1.10	1.10	1.10	NA	NA	NA
16_2_102	MW-17003	Appendix IV	Arsenic	ug/L	17	2	12%	2017-12-07 to 2025-04-23	Gamma; Lognormal	Gamma	51.7	26.0	1.00	210	66.2	1.28	1.70
16_2_103	MW-17003	Appendix IV	Barium	ug/L	17	0	0%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Normal	91.0	78.1	18.0	320	72.3	0.795	2.16
16_2_104	MW-17003	Appendix IV	Beryllium	ug/L	16	14	88%	2017-12-07 to 2025-04-23		Nonparametric	0.155	0.155	0.150	0.160	0.00707	0.0456	NA
16_2_106	MW-17003	Appendix IV	Cadmium	ug/L	16	15	94%	2017-12-07 to 2025-04-23		Nonparametric	0.0810	0.0810	0.0810	0.0810	NA	NA	NA
16_2_109	MW-17003	Appendix IV	Chromium	ug/L	17	12	71%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	0.324	0.250	0.160	0.520	0.153	0.472	0.479
16_2_110	MW-17003	Appendix IV	Cobalt	ug/L	16	11	69%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	18.6	2.00	0.120	52.0	24.6	1.33	0.785

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
16_2_114	MW-17003	Appendix IV	Fluoride	ug/L	17	11	65%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	106	103	81.0	140	21.8	0.206	0.594
16_2_117	MW-17003	Appendix IV	Lithium	ug/L	17	0	0%	2017-12-07 to 2025-04-23	Lognormal	Nonparametric	78.8	25.0	13.0	360	104	1.32	1.82
16_2_119	MW-17003	Appendix IV	Molybdenum	ug/L	17	4	24%	2017-12-07 to 2025-04-23	Gamma; Lognormal	Gamma	41.8	18.0	6.30	120	41.3	0.990	1.21
16_2_125	MW-17003	Appendix IV	Radium-226+228	pCi/L	17	6	35%	2017-12-07 to 2025-04-23	Gamma; Lognormal; Normal	Normal	0.788	0.775	0.351	1.38	0.343	0.435	0.529
16_2_127	MW-17003	Appendix IV	Selenium	ug/L	17	13	76%	2017-12-07 to 2025-04-23		Nonparametric	0.672	0.180	0.130	2.20	1.02	1.52	1.99
17_2_101	MW-17004	Appendix IV	Antimony	ug/L	17	14	82%	2017-12-06 to 2025-04-23		Nonparametric	0.470	0.110	0.100	1.20	0.632	1.35	1.73
17_2_102	MW-17004	Appendix IV	Arsenic	ug/L	18	2	11%	2017-12-06 to 2025-04-23	Gamma; Lognormal	Gamma	6.04	3.20	0.650	18.0	5.83	0.966	1.20
17_2_103	MW-17004	Appendix IV	Barium	ug/L	18	0	0%	2017-12-06 to 2025-04-23	Gamma; Lognormal	Gamma	182	146	51.0	450	114	0.623	1.20
17_2_106	MW-17004	Appendix IV	Cadmium	ug/L	17	16	94%	2017-12-06 to 2025-04-23		Nonparametric	0.490	0.490	0.490	0.490	NA	NA	NA
17_2_109	MW-17004	Appendix IV	Chromium	ug/L	18	12	67%	2017-12-06 to 2025-04-23	Lognormal	Nonparametric	1.70	0.360	0.170	7.80	3.01	1.78	2.37
17_2_110	MW-17004	Appendix IV	Cobalt	ug/L	17	11	65%	2017-12-06 to 2025-04-23	Gamma; Lognormal	Nonparametric	1.21	0.395	0.160	3.40	1.42	1.18	1.08
17_2_114	MW-17004	Appendix IV	Fluoride	ug/L	18	13	72%	2017-12-06 to 2025-04-23	Gamma; Lognormal; Normal	Nonparametric	115	89.0	67.0	230	67.4	0.584	1.75
17_2_116	MW-17004	Appendix IV	Lead	ug/L	17	14	82%	2017-12-06 to 2025-04-23		Nonparametric	6.42	0.130	0.130	19.0	10.9	1.70	1.73
17_2_117	MW-17004	Appendix IV	Lithium	ug/L	18	6	33%	2017-12-06 to 2025-04-23	Lognormal	Nonparametric	34.3	32.6	2.80	71.0	25.5	0.744	0.113
17_2_119	MW-17004	Appendix IV	Molybdenum	ug/L	18	7	39%	2017-12-06 to 2025-04-23	Gamma; Lognormal; Normal	Gamma	20.3	16.0	0.800	46.0	14.4	0.709	0.388
17_2_125	MW-17004	Appendix IV	Radium-226+228	pCi/L	18	6	33%	2017-12-06 to 2025-04-23	Nonparametric	Nonparametric	1.05	0.770	0	4.93	1.26	1.21	3.06
17_2_127	MW-17004	Appendix IV	Selenium	ug/L	18	14	78%	2017-12-06 to 2025-04-23		Nonparametric	0.775	0.175	0.150	2.60	1.22	1.57	2.0
17_2_131	MW-17004	Appendix IV	Thallium	ug/L	17	14	82%	2017-12-06 to 2025-04-23		Nonparametric	0.683	0.130	0.120	1.80	0.967	1.42	1.73
18_2_102	MW-17005	Appendix IV	Arsenic	ug/L	18	13	72%	2017-12-06 to 2025-04-22	Lognormal	Nonparametric	0.738	0.210	0.110	2.90	1.21	1.64	2.22
18_2_103	MW-17005	Appendix IV	Barium	ug/L	18	0	0%	2017-12-06 to 2025-04-22	Gamma; Lognormal	Gamma	155	127	64.0	456	103	0.666	1.84
18_2_104	MW-17005	Appendix IV	Beryllium	ug/L	17	16	94%	2017-12-06 to 2025-04-22		Nonparametric	0.0600	0.0600	0.0600	0.0600	NA	NA	NA
18_2_109	MW-17005	Appendix IV	Chromium	ug/L	18	11	61%	2017-12-06 to 2025-04-22	Gamma; Lognormal	Nonparametric	0.459	0.350	0.240	1.10	0.295	0.644	2.21
18_2_110	MW-17005	Appendix IV	Cobalt	ug/L	17	16	94%	2017-12-06 to 2025-04-22		Nonparametric	0.360	0.360	0.360	0.360	NA	NA	NA
18_2_114	MW-17005	Appendix IV	Fluoride	ug/L	18	14	78%	2017-12-06 to 2025-04-22		Nonparametric	90.8	100	22.0	140	52	0.573	-0.862
18_2_116	MW-17005	Appendix IV	Lead	ug/L	17	16	94%	2017-12-06 to 2025-04-22		Nonparametric	0.130	0.130	0.130	0.130	NA	NA	NA
18_2_117	MW-17005	Appendix IV	Lithium	ug/L	18	3	17%	2017-12-06 to 2025-04-22	Lognormal	Lognormal	13.3	10.0	3.90	47.5	12.2	0.919	2.21
18_2_119	MW-17005	Appendix IV	Molybdenum	ug/L	18	15	83%	2017-12-06 to 2025-04-22		Nonparametric	2.73	0.290	0.290	7.60	4.22	1.55	1.73
18_2_125	MW-17005	Appendix IV	Radium-226+228	pCi/L	18	5	28%	2017-12-06 to 2025-04-22	Lognormal	Lognormal	0.997	0.721	0.320	4.22	1.00	1.01	3.19
19_2_102	MW-17006	Appendix IV	Arsenic	ug/L	18	7	39%	2017-12-06 to 2025-04-24	Gamma; Normal	Normal	3.83	4.30	0.650	6.60	2.04	0.533	-0.390
19_2_103	MW-17006	Appendix IV	Barium	ug/L	18	0	0%	2017-12-06 to 2025-04-24	Gamma; Lognormal; Normal	Normal	95	81.2	65.0	190	32.6	0.343	1.71
19_2_109	MW-17006	Appendix IV	Chromium	ug/L	18	15	83%	2017-12-06 to 2025-04-24		Nonparametric	0.543	0.220	0.210	1.20	0.569	1.05	1.73
19_2_110	MW-17006	Appendix IV	Cobalt	ug/L	17	16	94%	2017-12-06 to 2025-04-24		Nonparametric	0.170	0.170	0.170	0.170	NA	NA	NA
19_2_114	MW-17006	Appendix IV	Fluoride	ug/L	18	9	50%	2017-12-06 to 2025-04-24	Normal	Nonparametric	130	130	22.0	190	50.5	0.387	-1.11
19_2_117	MW-17006	Appendix IV	Lithium	ug/L	18	0	0%	2017-12-06 to 2025-04-24	Gamma; Lognormal; Normal	Normal	30.3	30.0	12.0	57.0	9.95	0.328	0.607
19_2_118	MW-17006	Appendix IV	Mercury	ug/L	17	16	94%	2017-12-06 to 2025-04-24		Nonparametric	1.20	1.20	1.20	1.20	NA	NA	NA
19_2_119	MW-17006	Appendix IV	Molybdenum	ug/L	18	13	72%	2017-12-06 to 2025-04-24	Gamma; Lognormal	Nonparametric	14.8	6.30	1.20	53.0	21.8	1.47	2.02
19_2_125	MW-17006	Appendix IV	Radium-226+228	pCi/L	18	6	33%	2017-12-06 to 2025-04-24	Gamma; Lognormal; Normal	Normal	1.15	0.982	0.210	2.66	0.706	0.614	0.956
19_2_127	MW-17006	Appendix IV	Selenium	ug/L	18	17	94%	2017-12-06 to 2025-04-24		Nonparametric	0.140	0.140	0.140	0.140	NA	NA	NA

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
01_2_101	MW-15009	Appendix IV	Antimony	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
01_2_102	MW-15009	Appendix IV	Arsenic	ug/L	24	1	4%	0.897	0.021	0.140	0.289	0.913	0.047	0.184	0.043	0.120	>= 0.10	0.447	>= 0.10	1.226	Gamma; Normal	Gamma
01_2_103	MW-15009	Appendix IV	Barium	ug/L	24	0	0%	0.734	0.000	0.229	0.002	0.885	0.010	0.227	0.002	0.248	< 0.01	1.229	< 0.01	1.019	Nonparametric	Nonparametric
01_2_104	MW-15009	Appendix IV	Beryllium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
01_2_106	MW-15009	Appendix IV	Cadmium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
01_2_109	MW-15009	Appendix IV	Chromium	ug/L	24	20	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.069		Nonparametric
01_2_110	MW-15009	Appendix IV	Cobalt	ug/L	23	21	91%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.332		Nonparametric
01_2_114	MW-15009	Appendix IV	Fluoride	ug/L	24	18	75%	0.852	0.162	0.270	0.183	0.754	0.022	0.345	0.025	0.322	0.05 <= p < 0.10	0.664	0.05 <= p < 0.10	0.438	Gamma; Normal	Nonparametric
01_2_116	MW-15009	Appendix IV	Lead	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
01_2_117	MW-15009	Appendix IV	Lithium	ug/L	24	0	0%	0.828	0.001	0.172	0.063	0.954	0.331	0.124	0.446	0.125	>= 0.10	0.527	>= 0.10	0.428	Gamma; Lognormal; Normal	Normal
01_2_118	MW-15009	Appendix IV	Mercury	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
01_2_119	MW-15009	Appendix IV	Molybdenum	ug/L	24	6	25%	0.847	0.008	0.212	0.032	0.871	0.019	0.219	0.023	0.223	0.01 <= p < 0.05	0.797	0.01 <= p < 0.05	1.585	Nonparametric	Nonparametric
01_2_125	MW-15009	Appendix IV	Radium-226+228	pCi/L	24	12	50%	0.887	0.108	0.219	0.115	0.782	0.006	0.279	0.011	0.283	0.01 <= p < 0.05	1.018	0.01 <= p < 0.05	1.198	Normal	Nonparametric
01_2_127	MW-15009	Appendix IV	Selenium	ug/L	24	23	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
01_2_131	MW-15009	Appendix IV	Thallium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
02_2_101	MW-15010	Appendix IV	Antimony	ug/L	24	24	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
02_2_102	MW-15010	Appendix IV	Arsenic	ug/L	25	22	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.529		Nonparametric
02_2_103	MW-15010	Appendix IV	Barium	ug/L	25	0	0%	0.852	0.002	0.215	0.004	0.949	0.233	0.138	0.251	0.153	>= 0.10	0.726	0.05 <= p < 0.10	0.561	Gamma; Lognormal	Gamma
02_2_104	MW-15010	Appendix IV	Beryllium	ug/L	24	23	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
02_2_106	MW-15010	Appendix IV	Cadmium	ug/L	24	24	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
02_2_109	MW-15010	Appendix IV	Chromium	ug/L	25	15	60%	0.596	0.000	0.414	0.000	0.746	0.003	0.332	0.003	0.380	< 0.01	1.472	< 0.01	0.730	Nonparametric	Nonparametric
02_2_110	MW-15010	Appendix IV	Cobalt	ug/L	24	20	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.783		Nonparametric
02_2_114	MW-15010	Appendix IV	Fluoride	ug/L	26	15	58%	0.948	0.620	0.167	0.535	0.958	0.747	0.150	0.699	0.156	>= 0.10	0.270	>= 0.10	0.147	Gamma; Lognormal; Normal	Nonparametric
02_2_116	MW-15010	Appendix IV	Lead	ug/L	24	24	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
02_2_117	MW-15010	Appendix IV	Lithium	ug/L	25	0	0%	0.916	0.041	0.186	0.026	0.949	0.237	0.140	0.233	0.140	>= 0.10	0.615	>= 0.10	0.396	Gamma; Lognormal	Gamma
02_2_118	MW-15010	Appendix IV	Mercury	ug/L	24	24	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
02_2_119	MW-15010	Appendix IV	Molybdenum	ug/L	25	11	44%	0.853	0.024	0.205	0.112	0.880	0.057	0.196	0.151	0.203	>= 0.10	0.642	>= 0.10	1.278	Gamma; Lognormal; Normal	Gamma
02_2_125	MW-15010	Appendix IV	Radium-226+228	pCi/L	25	11	44%	0.934	0.352	0.150	0.535	0.926	0.272	0.153	0.503	0.144	>= 0.10	0.320	>= 0.10	0.620	Gamma; Lognormal; Normal	Normal
02_2_127	MW-15010	Appendix IV	Selenium	ug/L	25	23	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.000		Nonparametric
02_2_131	MW-15010	Appendix IV	Thallium	ug/L	24	24	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
03_2_101	MW-15013	Appendix IV	Antimony	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
03_2_102	MW-15013	Appendix IV	Arsenic	ug/L	24	19	79%	0.913	0.486	0.209	0.672	0.905	0.436	0.227	0.538	0.252	>= 0.10	0.318	>= 0.10	1.019	Gamma; Lognormal; Normal	Nonparametric
03_2_103	MW-15013	Appendix IV	Barium	ug/L	24	0	0%	0.823	0.001	0.238	0.001	0.911	0.036	0.209	0.008	0.227	< 0.01	1.195	< 0.01	0.485	Nonparametric	Nonparametric
03_2_104	MW-15013	Appendix IV	Beryllium	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
03_2_106	MW-15013	Appendix IV	Cadmium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
03_2_109	MW-15013	Appendix IV	Chromium	ug/L	24	19	79%	0.949	0.730	0.238	0.463	0.841	0.167	0.325	0.091	0.275	>= 0.10	0.382	>= 0.10	1.136	Gamma; Lognormal; Normal	Nonparametric
03_2_110	MW-15013	Appendix IV	Cobalt	ug/L	23	19	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.634		Nonparametric
03_2_114	MW-15013	Appendix IV	Fluoride	ug/L	25	17	68%	0.874	0.165	0.209	0.385	0.972	0.912	0.133	0.944	0.153	>= 0.10	0.257	>= 0.10	0.519	Gamma; Lognormal; Normal	Nonparametric
03_2_116	MW-15013	Appendix IV	Lead	ug/L	23	22	96%	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)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
03_2_117	MW-15013	Appendix IV	Lithium	ug/L	24	0	0%	0.880	0.008	0.178	0.048	0.936	0.132	0.182	0.039	0.187	0.01 <= p < 0.05	0.805	0.01 <= p < 0.05	0.321	Lognormal	Lognormal
03_2_118	MW-15013	Appendix IV	Mercury	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
03_2_119	MW-15013	Appendix IV	Molybdenum	ug/L	24	5	21%	0.572	0.000	0.278	0.000	0.975	0.872	0.113	0.751	0.135	>= 0.10	0.423	>= 0.10	1.212	Gamma; Lognormal	Gamma
03_2_125	MW-15013	Appendix IV	Radium-226+228	pCi/L	24	9	38%	0.943	0.418	0.178	0.228	0.892	0.071	0.159	0.385	0.158	>= 0.10	0.459	>= 0.10	0.534	Gamma; Lognormal; Normal	Normal
03_2_127	MW-15013	Appendix IV	Selenium	ug/L	24	21	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.706		Nonparametric
03_2_131	MW-15013	Appendix IV	Thallium	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
04_2_101	MW-15014R	Appendix IV	Antimony	ug/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
04_2_102	MW-15014R	Appendix IV	Arsenic	ug/L	9	5	56%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.951		Nonparametric
04_2_103	MW-15014R	Appendix IV	Barium	ug/L	9	0	0%	0.867	0.113	0.260	0.081	0.875	0.139	0.249	0.110	0.256	>= 0.10	0.532	>= 0.10	0.080	Gamma; Lognormal; Normal	Normal
04_2_104	MW-15014R	Appendix IV	Beryllium	ug/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
04_2_106	MW-15014R	Appendix IV	Cadmium	ug/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
04_2_109	MW-15014R	Appendix IV	Chromium	ug/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
04_2_110	MW-15014R	Appendix IV	Cobalt	ug/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
04_2_114	MW-15014R	Appendix IV	Fluoride	ug/L	9	1	11%	0.860	0.119	0.248	0.158	0.833	0.063	0.264	0.103	0.273	0.05 <= p < 0.10	0.714	0.05 <= p < 0.10	0.187	Gamma; Lognormal; Normal	Normal
04_2_116	MW-15014R	Appendix IV	Lead	ug/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
04_2_117	MW-15014R	Appendix IV	Lithium	ug/L	9	0	0%	0.677	0.001	0.295	0.023	0.820	0.035	0.267	0.064	0.287	0.01 <= p < 0.05	0.893	0.01 <= p < 0.05	0.384	Lognormal	Lognormal
04_2_118	MW-15014R	Appendix IV	Mercury	ug/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
04_2_119	MW-15014R	Appendix IV	Molybdenum	ug/L	9	2	22%	0.704	0.004	0.355	0.008	0.960	0.819	0.194	0.592	0.246	>= 0.10	0.423	>= 0.10	0.888	Gamma; Lognormal	Gamma
04_2_125	MW-15014R	Appendix IV	Radium-226+228	pCi/L	9	0	0%	0.894	0.219	0.260	0.079	0.944	0.629	0.177	0.576	0.196	>= 0.10	0.345	>= 0.10	0.666	Gamma; Lognormal; Normal	Normal
04_2_127	MW-15014R	Appendix IV	Selenium	ug/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
04_2_131	MW-15014R	Appendix IV	Thallium	ug/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
05_2_101	MW-15015R	Appendix IV	Antimony	ug/L	12	6	50%	0.701	0.006	0.305	0.084	0.940	0.659	0.193	0.687	0.234	>= 0.10	0.437	>= 0.10	1.295	Gamma; Lognormal; Normal	Nonparametric
05_2_102	MW-15015R	Appendix IV	Arsenic	ug/L	12	0	0%	0.922	0.307	0.191	0.260	0.959	0.771	0.131	0.826	0.118	>= 0.10	0.187	>= 0.10	0.806	Gamma; Lognormal; Normal	Normal
05_2_103	MW-15015R	Appendix IV	Barium	ug/L	12	0	0%	0.957	0.739	0.135	0.788	0.940	0.502	0.160	0.536	0.139	>= 0.10	0.301	>= 0.10	0.336	Gamma; Lognormal; Normal	Normal
05_2_104	MW-15015R	Appendix IV	Beryllium	ug/L	12	11	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
05_2_106	MW-15015R	Appendix IV	Cadmium	ug/L	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
05_2_109	MW-15015R	Appendix IV	Chromium	ug/L	12	10	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.090		Nonparametric
05_2_110	MW-15015R	Appendix IV	Cobalt	ug/L	12	7	58%	0.936	0.638	0.255	0.352	0.974	0.901	0.212	0.650	0.243	>= 0.10	0.248	>= 0.10	0.394	Gamma; Lognormal; Normal	Nonparametric
05_2_114	MW-15015R	Appendix IV	Fluoride	ug/L	12	6	50%	0.958	0.804	0.195	0.675	0.744	0.018	0.342	0.027	0.297	>= 0.10	0.626	0.05 <= p < 0.10	0.977	Gamma; Normal	Nonparametric
05_2_116	MW-15015R	Appendix IV	Lead	ug/L	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
05_2_117	MW-15015R	Appendix IV	Lithium	ug/L	12	0	0%	0.898	0.151	0.191	0.263	0.815	0.014	0.225	0.096	0.176	>= 0.10	0.508	>= 0.10	0.841	Gamma; Lognormal; Normal	Normal
05_2_118	MW-15015R	Appendix IV	Mercury	ug/L	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
05_2_119	MW-15015R	Appendix IV	Molybdenum	ug/L	12	0	0%	0.847	0.034	0.270	0.016	0.902	0.170	0.214	0.134	0.202	>= 0.10	0.508	>= 0.10	1.734	Gamma; Lognormal	Gamma
05_2_125	MW-15015R	Appendix IV	Radium-226+228	pCi/L	12	2	17%	0.878	0.123	0.217	0.199	0.957	0.751	0.122	0.941	0.162	>= 0.10	0.303	>= 0.10	0.682	Gamma; Lognormal; Normal	Normal
05_2_127	MW-15015R	Appendix IV	Selenium	ug/L	12	7	58%	0.753	0.032	0.350	0.045	0.772	0.047	0.330	0.080	0.363	0.01 <= p < 0.05	0.735	0.01 <= p < 0.05	0.755	Lognormal	Nonparametric
05_2_131	MW-15015R	Appendix IV	Thallium	ug/L	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
06_2_101	MW-15016R	Appendix IV	Antimony	ug/L	12	10	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.320		Nonparametric
06_2_102	MW-15016R	Appendix IV	Arsenic	ug/L	12	1	8%	0.618	0.000	0.363	0.000	0.787	0.006	0.256	0.042	0.298	0.01 <= p < 0.05	1.357	< 0.01	0.627	Nonparametric	Nonparametric
06_2_103	MW-15016R	Appendix IV	Barium	ug/L	12	0	0%	0.962	0.805	0.138	0.761	0.968	0.883	0.154	0.601	0.157	>= 0.10	0.224	>= 0.10	0.153	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
06_2_104	MW-15016R	Appendix IV	Beryllium	ug/L	12	11	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
06_2_106	MW-15016R	Appendix IV	Cadmium	ug/L	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
06_2_109	MW-15016R	Appendix IV	Chromium	ug/L	12	2	17%	0.861	0.079	0.207	0.263	0.901	0.227	0.166	0.607	0.174	>= 0.10	0.519	>= 0.10	0.203	Gamma; Lognormal; Normal	Normal
06_2_110	MW-15016R	Appendix IV	Cobalt	ug/L	12	1	8%	0.867	0.072	0.236	0.089	0.938	0.494	0.192	0.309	0.212	>= 0.10	0.501	>= 0.10	0.308	Gamma; Lognormal; Normal	Normal
06_2_114	MW-15016R	Appendix IV	Fluoride	ug/L	12	9	75%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.487		Nonparametric
06_2_116	MW-15016R	Appendix IV	Lead	ug/L	12	10	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.373		Nonparametric
06_2_117	MW-15016R	Appendix IV	Lithium	ug/L	12	3	25%	0.435	0.000	0.463	0.000	0.630	0.000	0.365	0.001	0.414	< 0.01	2.059	< 0.01	1.036	Nonparametric	Nonparametric
06_2_118	MW-15016R	Appendix IV	Mercury	ug/L	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
06_2_119	MW-15016R	Appendix IV	Molybdenum	ug/L	12	8	67%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.325		Nonparametric
06_2_125	MW-15016R	Appendix IV	Radium-226+228	pCi/L	12	0	0%	0.925	0.332	0.208	0.163	0.837	0.025	0.270	0.016	0.251	0.01 <= p < 0.05	0.594	>= 0.10	0.349	Gamma; Normal	Normal
06_2_127	MW-15016R	Appendix IV	Selenium	ug/L	12	8	67%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.106		Nonparametric
06_2_131	MW-15016R	Appendix IV	Thallium	ug/L	12	12	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
07_2_101	MW-15017	Appendix IV	Antimony	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
07_2_102	MW-15017	Appendix IV	Arsenic	ug/L	24	1	4%	0.643	0.000	0.329	0.000	0.765	0.000	0.307	0.000	0.328	< 0.01	2.772	< 0.01	0.677	Nonparametric	Nonparametric
07_2_103	MW-15017	Appendix IV	Barium	ug/L	24	0	0%	0.972	0.709	0.130	0.367	0.970	0.671	0.121	0.487	0.117	>= 0.10	0.367	>= 0.10	0.099	Gamma; Lognormal; Normal	Normal
07_2_104	MW-15017	Appendix IV	Beryllium	ug/L	23	21	91%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.844		Nonparametric
07_2_106	MW-15017	Appendix IV	Cadmium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
07_2_109	MW-15017	Appendix IV	Chromium	ug/L	24	1	4%	0.845	0.002	0.175	0.065	0.930	0.109	0.201	0.017	0.151	>= 0.10	0.604	>= 0.10	0.877	Gamma; Lognormal; Normal	Normal
07_2_110	MW-15017	Appendix IV	Cobalt	ug/L	23	13	57%	0.961	0.798	0.182	0.452	0.954	0.718	0.184	0.436	0.166	>= 0.10	0.273	>= 0.10	0.280	Gamma; Lognormal; Normal	Nonparametric
07_2_114	MW-15017	Appendix IV	Fluoride	ug/L	25	24	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
07_2_116	MW-15017	Appendix IV	Lead	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
07_2_117	MW-15017	Appendix IV	Lithium	ug/L	24	16	67%	0.722	0.004	0.377	0.001	0.838	0.072	0.320	0.015	0.353	< 0.01	0.832	0.01 <= p < 0.05	0.560	Lognormal	Nonparametric
07_2_118	MW-15017	Appendix IV	Mercury	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
07_2_119	MW-15017	Appendix IV	Molybdenum	ug/L	24	21	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.036		Nonparametric
07_2_125	MW-15017	Appendix IV	Radium-226+228	pCi/L	24	0	0%	0.961	0.456	0.085	0.922	0.919	0.055	0.105	0.709	0.101	>= 0.10	0.349	>= 0.10	0.148	Gamma; Lognormal; Normal	Normal
07_2_127	MW-15017	Appendix IV	Selenium	ug/L	24	12	50%	0.835	0.024	0.275	0.013	0.829	0.020	0.278	0.011	0.217	>= 0.10	0.627	>= 0.10	1.017	Gamma	Nonparametric
07_2_131	MW-15017	Appendix IV	Thallium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
08_2_101	MW-15018	Appendix IV	Antimony	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
08_2_102	MW-15018	Appendix IV	Arsenic	ug/L	24	14	58%	0.677	0.000	0.344	0.001	0.866	0.089	0.213	0.221	0.268	0.05 <= p < 0.10	0.836	0.01 <= p < 0.05	0.691	Gamma; Lognormal	Nonparametric
08_2_103	MW-15018	Appendix IV	Barium	ug/L	24	0	0%	0.766	0.000	0.262	0.000	0.881	0.009	0.205	0.010	0.221	< 0.01	1.316	< 0.01	0.225	Nonparametric	Nonparametric
08_2_104	MW-15018	Appendix IV	Beryllium	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
08_2_106	MW-15018	Appendix IV	Cadmium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
08_2_109	MW-15018	Appendix IV	Chromium	ug/L	24	10	42%	0.868	0.039	0.203	0.121	0.935	0.362	0.206	0.109	0.202	>= 0.10	0.470	>= 0.10	0.547	Gamma; Lognormal; Normal	Normal
08_2_110	MW-15018	Appendix IV	Cobalt	ug/L	23	19	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.546		Nonparametric
08_2_114	MW-15018	Appendix IV	Fluoride	ug/L	25	15	60%	0.922	0.377	0.147	0.785	0.915	0.316	0.175	0.523	0.161	>= 0.10	0.351	>= 0.10	0.306	Gamma; Lognormal; Normal	Nonparametric
08_2_116	MW-15018	Appendix IV	Lead	ug/L	23	17	74%	0.620	0.001	0.439	0.001	0.833	0.114	0.336	0.033	0.392	< 0.01	0.864	0.01 <= p < 0.05	0.832	Lognormal	Nonparametric
08_2_117	MW-15018	Appendix IV	Lithium	ug/L	24	0	0%	0.977	0.836	0.079	0.961	0.971	0.693	0.113	0.588	0.096	>= 0.10	0.250	>= 0.10	0.262	Gamma; Lognormal; Normal	Normal
08_2_118	MW-15018	Appendix IV	Mercury	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
08_2_119	MW-15018	Appendix IV	Molybdenum	ug/L	24	22	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.578		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)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
08_2_125	MW-15018	Appendix IV	Radium-226+228	pCi/L	24	4	17%	0.956	0.473	0.148	0.304	0.917	0.086	0.210	0.021	0.188	0.05 <= p < 0.10	0.584	>= 0.10	0.323	Gamma; Lognormal; Normal	Normal
08_2_127	MW-15018	Appendix IV	Selenium	ug/L	24	20	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.298		Nonparametric
08_2_131	MW-15018	Appendix IV	Thallium	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
09_2_101	MW-15019	Appendix IV	Antimony	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
09_2_102	MW-15019	Appendix IV	Arsenic	ug/L	24	15	62%	0.554	0.000	0.362	0.001	0.823	0.037	0.240	0.143	0.260	>= 0.10	1.052	< 0.01	0.976	Gamma; Lognormal	Nonparametric
09_2_103	MW-15019	Appendix IV	Barium	ug/L	24	0	0%	0.800	0.000	0.228	0.002	0.875	0.007	0.215	0.005	0.230	< 0.01	1.410	< 0.01	0.648	Nonparametric	Nonparametric
09_2_104	MW-15019	Appendix IV	Beryllium	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
09_2_106	MW-15019	Appendix IV	Cadmium	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
09_2_109	MW-15019	Appendix IV	Chromium	ug/L	24	14	58%	0.922	0.373	0.177	0.504	0.944	0.601	0.143	0.813	0.160	>= 0.10	0.290	>= 0.10	0.397	Gamma; Lognormal; Normal	Nonparametric
09_2_110	MW-15019	Appendix IV	Cobalt	ug/L	23	13	57%	0.657	0.000	0.393	0.000	0.722	0.002	0.346	0.001	0.370	< 0.01	1.487	< 0.01	0.377	Nonparametric	Nonparametric
09_2_114	MW-15019	Appendix IV	Fluoride	ug/L	25	23	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.476		Nonparametric
09_2_116	MW-15019	Appendix IV	Lead	ug/L	23	19	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.819		Nonparametric
09_2_117	MW-15019	Appendix IV	Lithium	ug/L	24	3	12%	0.854	0.005	0.264	0.001	0.747	0.000	0.349	0.000	0.338	< 0.01	2.146	< 0.01	0.864	Nonparametric	Nonparametric
09_2_118	MW-15019	Appendix IV	Mercury	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
09_2_119	MW-15019	Appendix IV	Molybdenum	ug/L	24	20	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.202		Nonparametric
09_2_125	MW-15019	Appendix IV	Radium-226+228	pCi/L	24	5	21%	0.915	0.090	0.167	0.176	0.975	0.878	0.102	0.868	0.132	>= 0.10	0.255	>= 0.10	0.584	Gamma; Lognormal; Normal	Normal
09_2_127	MW-15019	Appendix IV	Selenium	ug/L	24	19	79%	0.845	0.180	0.290	0.179	0.910	0.465	0.204	0.706	0.228	>= 0.10	0.365	>= 0.10	1.243	Gamma; Lognormal; Normal	Nonparametric
09_2_131	MW-15019	Appendix IV	Thallium	ug/L	23	20	87%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.899		Nonparametric
10_2_101	MW-15020	Appendix IV	Antimony	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
10_2_102	MW-15020	Appendix IV	Arsenic	ug/L	24	18	75%	0.916	0.475	0.198	0.653	0.923	0.528	0.179	0.792	0.195	>= 0.10	0.305	>= 0.10	0.460	Gamma; Lognormal; Normal	Nonparametric
10_2_103	MW-15020	Appendix IV	Barium	ug/L	24	0	0%	0.865	0.004	0.161	0.110	0.879	0.008	0.178	0.048	0.181	0.01 <= p < 0.05	0.966	0.01 <= p < 0.05	0.778	Normal	Normal
10_2_104	MW-15020	Appendix IV	Beryllium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
10_2_106	MW-15020	Appendix IV	Cadmium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
10_2_109	MW-15020	Appendix IV	Chromium	ug/L	24	13	54%	0.801	0.010	0.258	0.040	0.955	0.707	0.177	0.434	0.216	>= 0.10	0.388	>= 0.10	0.618	Gamma; Lognormal	Nonparametric
10_2_110	MW-15020	Appendix IV	Cobalt	ug/L	23	19	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.567		Nonparametric
10_2_114	MW-15020	Appendix IV	Fluoride	ug/L	25	22	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.270		Nonparametric
10_2_116	MW-15020	Appendix IV	Lead	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
10_2_117	MW-15020	Appendix IV	Lithium	ug/L	24	4	17%	0.909	0.061	0.234	0.005	0.851	0.005	0.278	0.000	0.271	< 0.01	1.130	< 0.01	0.479	Normal	Normal
10_2_118	MW-15020	Appendix IV	Mercury	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
10_2_119	MW-15020	Appendix IV	Molybdenum	ug/L	24	23	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
10_2_125	MW-15020	Appendix IV	Radium-226+228	pCi/L	24	6	25%	0.922	0.141	0.112	0.801	0.944	0.335	0.149	0.365	0.120	>= 0.10	0.332	>= 0.10	0.551	Gamma; Lognormal; Normal	Normal
10_2_127	MW-15020	Appendix IV	Selenium	ug/L	24	21	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.347		Nonparametric
10_2_131	MW-15020	Appendix IV	Thallium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_101	MW-15021	Appendix IV	Antimony	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_102	MW-15021	Appendix IV	Arsenic	ug/L	24	6	25%	0.960	0.603	0.121	0.689	0.803	0.002	0.239	0.008	0.188	>= 0.10	0.556	>= 0.10	0.696	Gamma; Normal	Normal
11_2_103	MW-15021	Appendix IV	Barium	ug/L	24	0	0%	0.842	0.002	0.256	0.000	0.863	0.004	0.243	0.001	0.252	< 0.01	1.588	< 0.01	0.250	Nonparametric	Nonparametric
11_2_104	MW-15021	Appendix IV	Beryllium	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_106	MW-15021	Appendix IV	Cadmium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_109	MW-15021	Appendix IV	Chromium	ug/L	24	6	25%	0.779	0.001	0.245	0.005	0.845	0.007	0.202	0.051	0.211	0.01 <= p < 0.05	1.303	< 0.01	0.392	Lognormal	Lognormal

(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)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
11_2_110	MW-15021	Appendix IV	Cobalt	ug/L	23	14	61%	0.876	0.142	0.183	0.520	0.805	0.023	0.225	0.209	0.202	>= 0.10	0.600	>= 0.10	0.235	Gamma; Lognormal; Normal	Nonparametric
11_2_114	MW-15021	Appendix IV	Fluoride	ug/L	25	23	92%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.170		Nonparametric
11_2_116	MW-15021	Appendix IV	Lead	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_117	MW-15021	Appendix IV	Lithium	ug/L	24	18	75%	0.901	0.379	0.208	0.575	0.914	0.466	0.198	0.652	0.224	>= 0.10	0.334	>= 0.10	0.237	Gamma; Lognormal; Normal	Nonparametric
11_2_118	MW-15021	Appendix IV	Mercury	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_119	MW-15021	Appendix IV	Molybdenum	ug/L	24	24	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_125	MW-15021	Appendix IV	Radium-226+228	pCi/L	24	3	12%	0.960	0.510	0.159	0.181	0.954	0.397	0.158	0.187	0.129	>= 0.10	0.288	>= 0.10	0.462	Gamma; Lognormal; Normal	Normal
11_2_127	MW-15021	Appendix IV	Selenium	ug/L	24	15	62%	0.831	0.046	0.241	0.139	0.893	0.215	0.277	0.046	0.220	>= 0.10	0.414	>= 0.10	1.244	Gamma; Lognormal; Normal	Nonparametric
11_2_131	MW-15021	Appendix IV	Thallium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_101	MW-15022	Appendix IV	Antimony	ug/L	24	23	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_102	MW-15022	Appendix IV	Arsenic	ug/L	25	10	40%	0.884	0.054	0.189	0.157	0.819	0.007	0.282	0.002	0.257	0.01 <= p < 0.05	0.907	0.01 <= p < 0.05	1.415	Normal	Normal
12_2_103	MW-15022	Appendix IV	Barium	ug/L	25	0	0%	0.899	0.017	0.218	0.003	0.929	0.080	0.190	0.021	0.204	< 0.01	0.893	0.01 <= p < 0.05	0.307	Lognormal	Lognormal
12_2_104	MW-15022	Appendix IV	Beryllium	ug/L	24	24	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_106	MW-15022	Appendix IV	Cadmium	ug/L	24	24	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_109	MW-15022	Appendix IV	Chromium	ug/L	25	17	68%	0.766	0.012	0.313	0.020	0.865	0.134	0.264	0.102	0.301	0.01 <= p < 0.05	0.664	0.05 <= p < 0.10	0.786	Gamma; Lognormal	Nonparametric
12_2_110	MW-15022	Appendix IV	Cobalt	ug/L	24	19	79%	0.943	0.685	0.243	0.429	0.967	0.855	0.214	0.636	0.207	>= 0.10	0.259	>= 0.10	0.382	Gamma; Lognormal; Normal	Nonparametric
12_2_114	MW-15022	Appendix IV	Fluoride	ug/L	26	19	73%	0.845	0.110	0.278	0.105	0.874	0.203	0.232	0.302	0.264	>= 0.10	0.536	>= 0.10	0.566	Gamma; Lognormal; Normal	Nonparametric
12_2_116	MW-15022	Appendix IV	Lead	ug/L	24	24	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_117	MW-15022	Appendix IV	Lithium	ug/L	25	8	32%	0.885	0.039	0.222	0.026	0.957	0.583	0.138	0.524	0.173	>= 0.10	0.411	>= 0.10	0.554	Gamma; Lognormal	Gamma
12_2_118	MW-15022	Appendix IV	Mercury	ug/L	24	23	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_119	MW-15022	Appendix IV	Molybdenum	ug/L	25	12	48%	0.837	0.019	0.181	0.293	0.785	0.005	0.321	0.001	0.277	0.01 <= p < 0.05	0.910	0.01 <= p < 0.05	1.739	Normal	Normal
12_2_125	MW-15022	Appendix IV	Radium-226+228	pCi/L	25	11	44%	0.700	0.000	0.259	0.012	0.915	0.188	0.184	0.226	0.190	>= 0.10	0.713	0.05 <= p < 0.10	0.644	Gamma; Lognormal	Gamma
12_2_127	MW-15022	Appendix IV	Selenium	ug/L	25	24	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_131	MW-15022	Appendix IV	Thallium	ug/L	24	24	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_101	MW-15023	Appendix IV	Antimony	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_102	MW-15023	Appendix IV	Arsenic	ug/L	24	8	33%	0.547	0.000	0.376	0.000	0.867	0.024	0.245	0.011	0.324	< 0.01	1.498	< 0.01	1.110	Nonparametric	Nonparametric
13_2_103	MW-15023	Appendix IV	Barium	ug/L	24	0	0%	0.690	0.000	0.262	0.000	0.876	0.007	0.173	0.061	0.177	0.05 <= p < 0.10	1.291	< 0.01	0.507	Gamma; Lognormal	Gamma
13_2_104	MW-15023	Appendix IV	Beryllium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_106	MW-15023	Appendix IV	Cadmium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_109	MW-15023	Appendix IV	Chromium	ug/L	24	17	71%	0.707	0.004	0.317	0.032	0.808	0.049	0.279	0.103	0.300	0.05 <= p < 0.10	0.791	0.01 <= p < 0.05	0.813	Gamma; Lognormal	Nonparametric
13_2_110	MW-15023	Appendix IV	Cobalt	ug/L	23	21	91%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.000		Nonparametric
13_2_114	MW-15023	Appendix IV	Fluoride	ug/L	25	16	64%	0.730	0.003	0.301	0.018	0.814	0.030	0.258	0.085	0.282	0.01 <= p < 0.05	0.917	0.01 <= p < 0.05	0.410	Lognormal	Nonparametric
13_2_116	MW-15023	Appendix IV	Lead	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_117	MW-15023	Appendix IV	Lithium	ug/L	24	5	21%	0.730	0.000	0.229	0.010	0.933	0.199	0.156	0.262	0.170	>= 0.10	0.708	0.05 <= p < 0.10	0.541	Gamma; Lognormal	Gamma
13_2_118	MW-15023	Appendix IV	Mercury	ug/L	23	22	96%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_119	MW-15023	Appendix IV	Molybdenum	ug/L	24	4	17%	0.689	0.000	0.315	0.000	0.792	0.001	0.244	0.003	0.275	< 0.01	2.163	< 0.01	0.588	Nonparametric	Nonparametric
13_2_125	MW-15023	Appendix IV	Radium-226+228	pCi/L	24	9	38%	0.780	0.002	0.202	0.103	0.985	0.992	0.102	0.941	0.127	>= 0.10	0.257	>= 0.10	0.800	Gamma; Lognormal; Normal	Normal
13_2_127	MW-15023	Appendix IV	Selenium	ug/L	24	21	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.104		Nonparametric
13_2_131	MW-15023	Appendix IV	Thallium	ug/L	23	23	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
14_2_101	MW-17001R	Appendix IV	Antimony	ug/L	11	10	91%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_102	MW-17001R	Appendix IV	Arsenic	ug/L	11	5	45%	0.676	0.003	0.327	0.044	0.940	0.660	0.217	0.506	0.289	>= 0.10	0.476	>= 0.10	1.322	Gamma; Lognormal	Gamma
14_2_103	MW-17001R	Appendix IV	Barium	ug/L	11	0	0%	0.921	0.326	0.183	0.384	0.923	0.341	0.169	0.514	0.168	>= 0.10	0.434	>= 0.10	0.406	Gamma; Lognormal; Normal	Normal
14_2_104	MW-17001R	Appendix IV	Beryllium	ug/L	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_106	MW-17001R	Appendix IV	Cadmium	ug/L	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_109	MW-17001R	Appendix IV	Chromium	ug/L	11	7	64%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.327		Nonparametric
14_2_110	MW-17001R	Appendix IV	Cobalt	ug/L	11	6	55%	0.645	0.002	0.422	0.004	0.725	0.017	0.376	0.020	0.408	0.01 <= p < 0.05	0.902	< 0.01	0.539	Nonparametric	Nonparametric
14_2_114	MW-17001R	Appendix IV	Fluoride	ug/L	11	2	18%	0.910	0.317	0.253	0.100	0.927	0.455	0.224	0.218	0.236	>= 0.10	0.464	>= 0.10	0.185	Gamma; Lognormal; Normal	Normal
14_2_116	MW-17001R	Appendix IV	Lead	ug/L	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_117	MW-17001R	Appendix IV	Lithium	ug/L	11	0	0%	0.901	0.188	0.183	0.383	0.935	0.460	0.169	0.516	0.158	>= 0.10	0.352	>= 0.10	0.593	Gamma; Lognormal; Normal	Normal
14_2_118	MW-17001R	Appendix IV	Mercury	ug/L	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_119	MW-17001R	Appendix IV	Molybdenum	ug/L	11	6	55%	0.844	0.178	0.281	0.216	0.792	0.070	0.328	0.084	0.339	0.05 <= p < 0.10	0.631	0.05 <= p < 0.10	0.922	Gamma; Lognormal; Normal	Nonparametric
14_2_125	MW-17001R	Appendix IV	Radium-226+228	pCi/L	11	0	0%	0.959	0.764	0.132	0.851	NA	NA	NA	NA	NA		NA		NA	Normal	Normal
14_2_127	MW-17001R	Appendix IV	Selenium	ug/L	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_131	MW-17001R	Appendix IV	Thallium	ug/L	11	11	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_2_101	MW-17002	Appendix IV	Antimony	ug/L	17	15	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.677		Nonparametric
15_2_102	MW-17002	Appendix IV	Arsenic	ug/L	18	0	0%	0.746	0.000	0.236	0.009	0.890	0.038	0.193	0.076	0.208	0.05 <= p < 0.10	0.868	0.01 <= p < 0.05	1.913	Gamma; Lognormal	Gamma
15_2_103	MW-17002	Appendix IV	Barium	ug/L	18	0	0%	0.851	0.009	0.212	0.032	0.969	0.773	0.143	0.431	0.172	>= 0.10	0.496	>= 0.10	0.454	Gamma; Lognormal	Gamma
15_2_104	MW-17002	Appendix IV	Beryllium	ug/L	17	16	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_2_106	MW-17002	Appendix IV	Cadmium	ug/L	17	13	76%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.172		Nonparametric
15_2_109	MW-17002	Appendix IV	Chromium	ug/L	18	11	61%	0.984	0.978	0.165	0.819	0.931	0.560	0.175	0.745	0.163	>= 0.10	0.250	>= 0.10	0.369	Gamma; Lognormal; Normal	Nonparametric
15_2_110	MW-17002	Appendix IV	Cobalt	ug/L	17	15	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.238		Nonparametric
15_2_114	MW-17002	Appendix IV	Fluoride	ug/L	18	8	44%	0.821	0.026	0.256	0.061	0.936	0.511	0.191	0.375	0.209	>= 0.10	0.469	>= 0.10	0.316	Gamma; Lognormal; Normal	Normal
15_2_116	MW-17002	Appendix IV	Lead	ug/L	17	16	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_2_117	MW-17002	Appendix IV	Lithium	ug/L	18	0	0%	0.955	0.517	0.142	0.434	0.886	0.034	0.172	0.173	0.142	>= 0.10	0.450	>= 0.10	0.426	Gamma; Lognormal; Normal	Normal
15_2_118	MW-17002	Appendix IV	Mercury	ug/L	17	17	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
15_2_119	MW-17002	Appendix IV	Molybdenum	ug/L	18	6	33%	0.875	0.075	0.194	0.245	0.805	0.011	0.285	0.008	0.261	0.05 <= p < 0.10	0.847	0.01 <= p < 0.05	2.532	Gamma; Normal	Gamma
15_2_125	MW-17002	Appendix IV	Radium-226+228	pCi/L	18	3	17%	0.778	0.002	0.241	0.019	0.941	0.392	0.142	0.568	0.136	>= 0.10	0.349	>= 0.10	0.899	Gamma; Lognormal	Gamma
15_2_127	MW-17002	Appendix IV	Selenium	ug/L	18	15	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.163		Nonparametric
15_2_131	MW-17002	Appendix IV	Thallium	ug/L	17	16	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_2_101	MW-17003	Appendix IV	Antimony	ug/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_2_102	MW-17003	Appendix IV	Arsenic	ug/L	17	2	12%	0.718	0.000	0.323	0.000	0.966	0.789	0.124	0.776	0.172	>= 0.10	0.412	>= 0.10	1.441	Gamma; Lognormal	Gamma
16_2_103	MW-17003	Appendix IV	Barium	ug/L	17	0	0%	0.792	0.002	0.195	0.085	0.980	0.952	0.138	0.523	0.109	>= 0.10	0.270	>= 0.10	0.732	Gamma; Lognormal; Normal	Normal
16_2_104	MW-17003	Appendix IV	Beryllium	ug/L	16	14	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.046		Nonparametric
16_2_106	MW-17003	Appendix IV	Cadmium	ug/L	16	15	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_2_109	MW-17003	Appendix IV	Chromium	ug/L	17	12	71%	0.897	0.394	0.286	0.197	0.926	0.572	0.234	0.489	0.270	>= 0.10	0.360	>= 0.10	0.486	Gamma; Lognormal; Normal	Nonparametric
16_2_110	MW-17003	Appendix IV	Cobalt	ug/L	16	11	69%	0.778	0.053	0.349	0.046	0.919	0.522	0.229	0.528	0.268	>= 0.10	0.415	>= 0.10	2.606	Gamma; Lognormal; Normal	Nonparametric
16_2_114	MW-17003	Appendix IV	Fluoride	ug/L	17	11	65%	0.962	0.836	0.177	0.807	0.977	0.938	0.157	0.915	0.176	>= 0.10	0.186	>= 0.10	0.203	Gamma; Lognormal; Normal	Nonparametric
16_2_116	MW-17003	Appendix IV	Lead	ug/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
16_2_117	MW-17003	Appendix IV	Lithium	ug/L	17	0	0%	0.682	0.000	0.326	0.000	0.848	0.010	0.207	0.051	0.256	< 0.01	1.511	< 0.01	1.115	Lognormal	Nonparametric
16_2_118	MW-17003	Appendix IV	Mercury	ug/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_2_119	MW-17003	Appendix IV	Molybdenum	ug/L	17	4	24%	0.785	0.005	0.256	0.020	0.931	0.348	0.186	0.253	0.229	0.05 <= p < 0.10	0.562	>= 0.10	1.010	Gamma; Lognormal	Gamma
16_2_125	MW-17003	Appendix IV	Radium-226+228	pCi/L	17	6	35%	0.933	0.437	0.204	0.227	0.949	0.628	0.127	0.888	0.148	>= 0.10	0.246	>= 0.10	0.455	Gamma; Lognormal; Normal	Normal
16_2_127	MW-17003	Appendix IV	Selenium	ug/L	17	13	76%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.326		Nonparametric
16_2_131	MW-17003	Appendix IV	Thallium	ug/L	16	16	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_2_101	MW-17004	Appendix IV	Antimony	ug/L	17	14	82%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.408		Nonparametric
17_2_102	MW-17004	Appendix IV	Arsenic	ug/L	18	2	11%	0.803	0.003	0.218	0.040	0.955	0.577	0.138	0.573	0.184	>= 0.10	0.514	>= 0.10	1.006	Gamma; Lognormal	Gamma
17_2_103	MW-17004	Appendix IV	Barium	ug/L	18	0	0%	0.863	0.014	0.223	0.018	0.973	0.844	0.129	0.599	0.167	>= 0.10	0.410	>= 0.10	0.595	Gamma; Lognormal	Gamma
17_2_104	MW-17004	Appendix IV	Beryllium	ug/L	17	17	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_2_106	MW-17004	Appendix IV	Cadmium	ug/L	17	16	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_2_109	MW-17004	Appendix IV	Chromium	ug/L	18	12	67%	0.587	0.000	0.399	0.003	0.844	0.142	0.319	0.056	0.362	0.01 <= p < 0.05	0.828	0.01 <= p < 0.05	1.396	Lognormal	Nonparametric
17_2_110	MW-17004	Appendix IV	Cobalt	ug/L	17	11	65%	0.752	0.021	0.365	0.012	0.869	0.220	0.256	0.250	0.320	0.05 <= p < 0.10	0.630	0.05 <= p < 0.10	1.260	Gamma; Lognormal	Nonparametric
17_2_114	MW-17004	Appendix IV	Fluoride	ug/L	18	13	72%	0.795	0.074	0.273	0.255	0.884	0.327	0.215	0.624	0.247	>= 0.10	0.450	>= 0.10	0.503	Gamma; Lognormal; Normal	Nonparametric
17_2_116	MW-17004	Appendix IV	Lead	ug/L	17	14	82%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		2.878		Nonparametric
17_2_117	MW-17004	Appendix IV	Lithium	ug/L	18	6	33%	0.847	0.034	0.273	0.014	0.870	0.066	0.269	0.016	0.274	0.01 <= p < 0.05	0.793	0.01 <= p < 0.05	1.041	Lognormal	Nonparametric
17_2_118	MW-17004	Appendix IV	Mercury	ug/L	17	17	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_2_119	MW-17004	Appendix IV	Molybdenum	ug/L	18	7	39%	0.953	0.676	0.162	0.576	0.862	0.061	0.165	0.548	0.176	>= 0.10	0.287	>= 0.10	1.156	Gamma; Lognormal; Normal	Gamma
17_2_125	MW-17004	Appendix IV	Radium-226+228	pCi/L	18	6	33%	0.568	0.000	0.396	0.000	NA	NA	NA	NA	NA		NA		NA	Nonparametric	Nonparametric
17_2_127	MW-17004	Appendix IV	Selenium	ug/L	18	14	78%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.377		Nonparametric
17_2_131	MW-17004	Appendix IV	Thallium	ug/L	17	14	82%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.541		Nonparametric
18_2_101	MW-17005	Appendix IV	Antimony	ug/L	17	17	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_2_102	MW-17005	Appendix IV	Arsenic	ug/L	18	13	72%	0.609	0.001	0.438	0.002	0.818	0.114	0.309	0.120	0.390	0.01 <= p < 0.05	0.795	0.01 <= p < 0.05	1.290	Lognormal	Nonparametric
18_2_103	MW-17005	Appendix IV	Barium	ug/L	18	0	0%	0.792	0.001	0.237	0.008	0.935	0.234	0.137	0.492	0.156	>= 0.10	0.608	>= 0.10	0.563	Gamma; Lognormal	Gamma
18_2_104	MW-17005	Appendix IV	Beryllium	ug/L	17	16	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_2_106	MW-17005	Appendix IV	Cadmium	ug/L	17	17	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_2_109	MW-17005	Appendix IV	Chromium	ug/L	18	11	61%	0.720	0.006	0.328	0.022	0.880	0.227	0.223	0.367	0.255	>= 0.10	0.592	>= 0.10	0.503	Gamma; Lognormal	Nonparametric
18_2_110	MW-17005	Appendix IV	Cobalt	ug/L	17	16	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_2_114	MW-17005	Appendix IV	Fluoride	ug/L	18	14	78%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.841		Nonparametric
18_2_116	MW-17005	Appendix IV	Lead	ug/L	17	16	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_2_117	MW-17005	Appendix IV	Lithium	ug/L	18	3	17%	0.681	0.000	0.343	0.000	0.918	0.179	0.191	0.148	0.244	0.01 <= p < 0.05	0.891	0.01 <= p < 0.05	0.703	Lognormal	Lognormal
18_2_118	MW-17005	Appendix IV	Mercury	ug/L	17	17	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_2_119	MW-17005	Appendix IV	Molybdenum	ug/L	18	15	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.886		Nonparametric
18_2_125	MW-17005	Appendix IV	Radium-226+228	pCi/L	18	5	28%	0.548	0.000	0.358	0.000	0.858	0.037	0.232	0.055	0.275	0.01 <= p < 0.05	1.256	< 0.01	0.622	Lognormal	Lognormal
18_2_127	MW-17005	Appendix IV	Selenium	ug/L	18	18	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_2_131	MW-17005	Appendix IV	Thallium	ug/L	17	17	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_101	MW-17006	Appendix IV	Antimony	ug/L	17	17	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_102	MW-17006	Appendix IV	Arsenic	ug/L	18	7	39%	0.927	0.383	0.209	0.200	0.844	0.036	0.288	0.011	0.276	0.01 <= p < 0.05	0.636	0.05 <= p < 0.10	0.776	Gamma; Normal	Normal
19_2_103	MW-17006	Appendix IV	Barium	ug/L	18	0	0%	0.810	0.002	0.196	0.067	0.886	0.033	0.180	0.128	0.190	0.05 <= p < 0.10	0.906	0.01 <= p < 0.05	0.296	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
19_2_104	MW-17006	Appendix IV	Beryllium	ug/L	17	17	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_106	MW-17006	Appendix IV	Cadmium	ug/L	17	17	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_109	MW-17006	Appendix IV	Chromium	ug/L	18	15	83%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.993		Nonparametric
19_2_110	MW-17006	Appendix IV	Cobalt	ug/L	17	16	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_114	MW-17006	Appendix IV	Fluoride	ug/L	18	9	50%	0.900	0.253	0.233	0.170	0.688	0.001	0.364	0.001	0.325	< 0.01	0.890	0.01 <= p < 0.05	0.652	Normal	Nonparametric
19_2_116	MW-17006	Appendix IV	Lead	ug/L	17	17	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_117	MW-17006	Appendix IV	Lithium	ug/L	18	0	0%	0.928	0.180	0.165	0.220	0.905	0.071	0.185	0.108	0.159	>= 0.10	0.574	>= 0.10	0.360	Gamma; Lognormal; Normal	Normal
19_2_118	MW-17006	Appendix IV	Mercury	ug/L	17	16	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_119	MW-17006	Appendix IV	Molybdenum	ug/L	18	13	72%	0.719	0.015	0.351	0.043	0.943	0.689	0.203	0.712	0.215	>= 0.10	0.349	>= 0.10	1.546	Gamma; Lognormal	Nonparametric
19_2_125	MW-17006	Appendix IV	Radium-226+228	pCi/L	18	6	33%	0.911	0.218	0.233	0.071	0.929	0.367	0.199	0.210	0.156	>= 0.10	0.346	>= 0.10	0.707	Gamma; Lognormal; Normal	Normal
19_2_127	MW-17006	Appendix IV	Selenium	ug/L	18	17	94%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_131	MW-17006	Appendix IV	Thallium	ug/L	17	17	100%	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.
01_2_101	MW-15009	Appendix IV	Antimony	ug/L	23	22	96%	NA	NA	
01_2_102	MW-15009	Appendix IV	Arsenic	ug/L	24	1	4%	0.691	0.000	***
01_2_103	MW-15009	Appendix IV	Barium	ug/L	24	0	0%	0.460	0.017	*
01_2_109	MW-15009	Appendix IV	Chromium	ug/L	24	20	83%	-0.122	0.730	
01_2_110	MW-15009	Appendix IV	Cobalt	ug/L	23	21	91%	-0.500	0.157	
01_2_114	MW-15009	Appendix IV	Fluoride	ug/L	24	18	75%	-0.312	0.334	
01_2_117	MW-15009	Appendix IV	Lithium	ug/L	24	0	0%	0.564	0.003	**
01_2_119	MW-15009	Appendix IV	Molybdenum	ug/L	24	6	25%	0.863	0.000	***
01_2_125	MW-15009	Appendix IV	Radium-226+228	pCi/L	24	12	50%	-0.421	0.100	
01_2_127	MW-15009	Appendix IV	Selenium	ug/L	24	23	96%	NA	NA	
02_2_102	MW-15010	Appendix IV	Arsenic	ug/L	25	22	88%	-0.031	0.932	
02_2_103	MW-15010	Appendix IV	Barium	ug/L	25	0	0%	0.748	0.000	***
02_2_104	MW-15010	Appendix IV	Beryllium	ug/L	24	23	96%	NA	NA	
02_2_109	MW-15010	Appendix IV	Chromium	ug/L	25	15	60%	0.337	0.218	
02_2_110	MW-15010	Appendix IV	Cobalt	ug/L	24	20	83%	-0.806	0.023	*
02_2_114	MW-15010	Appendix IV	Fluoride	ug/L	26	15	58%	0.024	0.928	
02_2_117	MW-15010	Appendix IV	Lithium	ug/L	25	0	0%	0.579	0.002	**
02_2_119	MW-15010	Appendix IV	Molybdenum	ug/L	25	11	44%	0.652	0.007	**
02_2_125	MW-15010	Appendix IV	Radium-226+228	pCi/L	25	11	44%	0.267	0.267	
02_2_127	MW-15010	Appendix IV	Selenium	ug/L	25	23	92%	NA	NA	
03_2_102	MW-15013	Appendix IV	Arsenic	ug/L	24	19	79%	-0.096	0.776	
03_2_103	MW-15013	Appendix IV	Barium	ug/L	24	0	0%	0.574	0.003	**
03_2_104	MW-15013	Appendix IV	Beryllium	ug/L	23	22	96%	NA	NA	
03_2_109	MW-15013	Appendix IV	Chromium	ug/L	24	19	79%	-0.323	0.339	
03_2_110	MW-15013	Appendix IV	Cobalt	ug/L	23	19	83%	-0.027	0.940	
03_2_114	MW-15013	Appendix IV	Fluoride	ug/L	25	17	68%	0.346	0.242	
03_2_116	MW-15013	Appendix IV	Lead	ug/L	23	22	96%	NA	NA	
03_2_117	MW-15013	Appendix IV	Lithium	ug/L	24	0	0%	0.586	0.002	**
03_2_119	MW-15013	Appendix IV	Molybdenum	ug/L	24	5	21%	0.031	0.885	
03_2_125	MW-15013	Appendix IV	Radium-226+228	pCi/L	24	9	38%	-0.053	0.821	
03_2_127	MW-15013	Appendix IV	Selenium	ug/L	24	21	88%	-0.099	0.787	
03_2_131	MW-15013	Appendix IV	Thallium	ug/L	23	22	96%	NA	NA	
04_2_102	MW-15014R	Appendix IV	Arsenic	ug/L	9	5	56%	-0.062	0.861	
04_2_103	MW-15014R	Appendix IV	Barium	ug/L	9	0	0%	-0.486	0.087	
04_2_104	MW-15014R	Appendix IV	Beryllium	ug/L	9	8	89%	NA	NA	
04_2_109	MW-15014R	Appendix IV	Chromium	ug/L	9	8	89%	NA	NA	
04_2_110	MW-15014R	Appendix IV	Cobalt	ug/L	9	8	89%	NA	NA	
04_2_114	MW-15014R	Appendix IV	Fluoride	ug/L	9	1	11%	0.016	0.956	
04_2_117	MW-15014R	Appendix IV	Lithium	ug/L	9	0	0%	-0.076	0.789	
04_2_119	MW-15014R	Appendix IV	Molybdenum	ug/L	9	2	22%	0.132	0.670	
04_2_125	MW-15014R	Appendix IV	Radium-226+228	pCi/L	9	0	0%	0.125	0.661	
04_2_127	MW-15014R	Appendix IV	Selenium	ug/L	9	8	89%	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.
05_2_101	MW-15015R	Appendix IV	Antimony	ug/L	12	6	50%	-0.245	0.448	
05_2_102	MW-15015R	Appendix IV	Arsenic	ug/L	12	0	0%	0.506	0.048	*
05_2_103	MW-15015R	Appendix IV	Barium	ug/L	12	0	0%	-0.006	0.982	
05_2_104	MW-15015R	Appendix IV	Beryllium	ug/L	12	11	92%	NA	NA	
05_2_109	MW-15015R	Appendix IV	Chromium	ug/L	12	10	83%	-0.500	0.157	
05_2_110	MW-15015R	Appendix IV	Cobalt	ug/L	12	7	58%	0.307	0.364	
05_2_114	MW-15015R	Appendix IV	Fluoride	ug/L	12	6	50%	0.106	0.742	
05_2_117	MW-15015R	Appendix IV	Lithium	ug/L	12	0	0%	0.157	0.540	
05_2_119	MW-15015R	Appendix IV	Molybdenum	ug/L	12	0	0%	0.214	0.402	
05_2_125	MW-15015R	Appendix IV	Radium-226+228	pCi/L	12	2	17%	0.070	0.797	
05_2_127	MW-15015R	Appendix IV	Selenium	ug/L	12	7	58%	0.373	0.270	
06_2_101	MW-15016R	Appendix IV	Antimony	ug/L	12	10	83%	-0.500	0.157	
06_2_102	MW-15016R	Appendix IV	Arsenic	ug/L	12	1	8%	0.283	0.285	
06_2_103	MW-15016R	Appendix IV	Barium	ug/L	12	0	0%	0.451	0.078	
06_2_104	MW-15016R	Appendix IV	Beryllium	ug/L	12	11	92%	NA	NA	
06_2_109	MW-15016R	Appendix IV	Chromium	ug/L	12	2	17%	-0.489	0.074	
06_2_110	MW-15016R	Appendix IV	Cobalt	ug/L	12	1	8%	0.331	0.211	
06_2_114	MW-15016R	Appendix IV	Fluoride	ug/L	12	9	75%	-0.600	0.100	
06_2_116	MW-15016R	Appendix IV	Lead	ug/L	12	10	83%	-0.500	0.157	
06_2_117	MW-15016R	Appendix IV	Lithium	ug/L	12	3	25%	-0.143	0.614	
06_2_119	MW-15016R	Appendix IV	Molybdenum	ug/L	12	8	67%	-0.063	0.859	
06_2_125	MW-15016R	Appendix IV	Radium-226+228	pCi/L	12	0	0%	0.225	0.378	
06_2_127	MW-15016R	Appendix IV	Selenium	ug/L	12	8	67%	-0.122	0.729	
07_2_102	MW-15017	Appendix IV	Arsenic	ug/L	24	1	4%	0.599	0.002	**
07_2_103	MW-15017	Appendix IV	Barium	ug/L	24	0	0%	0.477	0.013	*
07_2_104	MW-15017	Appendix IV	Beryllium	ug/L	23	21	91%	-0.500	0.157	
07_2_109	MW-15017	Appendix IV	Chromium	ug/L	24	1	4%	0.724	0.000	***
07_2_110	MW-15017	Appendix IV	Cobalt	ug/L	23	13	57%	0.156	0.570	
07_2_114	MW-15017	Appendix IV	Fluoride	ug/L	25	24	96%	NA	NA	
07_2_117	MW-15017	Appendix IV	Lithium	ug/L	24	16	67%	-0.255	0.389	
07_2_119	MW-15017	Appendix IV	Molybdenum	ug/L	24	21	88%	-0.658	0.071	
07_2_125	MW-15017	Appendix IV	Radium-226+228	pCi/L	24	0	0%	0.060	0.756	
07_2_127	MW-15017	Appendix IV	Selenium	ug/L	24	12	50%	0.123	0.631	
08_2_102	MW-15018	Appendix IV	Arsenic	ug/L	24	14	58%	-0.174	0.526	
08_2_103	MW-15018	Appendix IV	Barium	ug/L	24	0	0%	0.573	0.003	**
08_2_104	MW-15018	Appendix IV	Beryllium	ug/L	23	22	96%	NA	NA	
08_2_109	MW-15018	Appendix IV	Chromium	ug/L	24	10	42%	0.131	0.587	
08_2_110	MW-15018	Appendix IV	Cobalt	ug/L	23	19	83%	-0.095	0.789	
08_2_114	MW-15018	Appendix IV	Fluoride	ug/L	25	15	60%	0.171	0.531	
08_2_116	MW-15018	Appendix IV	Lead	ug/L	23	17	74%	-0.034	0.915	
08_2_117	MW-15018	Appendix IV	Lithium	ug/L	24	0	0%	0.503	0.009	**
08_2_119	MW-15018	Appendix IV	Molybdenum	ug/L	24	22	92%	-0.500	0.157	

(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.
08_2_125	MW-15018	Appendix IV	Radium-226+228	pCi/L	24	4	17%	0.228	0.272	
08_2_127	MW-15018	Appendix IV	Selenium	ug/L	24	20	83%	-0.256	0.468	
08_2_131	MW-15018	Appendix IV	Thallium	ug/L	23	22	96%	NA	NA	
09_2_102	MW-15019	Appendix IV	Arsenic	ug/L	24	15	62%	-0.025	0.930	
09_2_103	MW-15019	Appendix IV	Barium	ug/L	24	0	0%	0.162	0.400	
09_2_104	MW-15019	Appendix IV	Beryllium	ug/L	23	22	96%	NA	NA	
09_2_106	MW-15019	Appendix IV	Cadmium	ug/L	23	22	96%	NA	NA	
09_2_109	MW-15019	Appendix IV	Chromium	ug/L	24	14	58%	0.021	0.939	
09_2_110	MW-15019	Appendix IV	Cobalt	ug/L	23	13	57%	0.290	0.290	
09_2_114	MW-15019	Appendix IV	Fluoride	ug/L	25	23	92%	-0.500	0.157	
09_2_116	MW-15019	Appendix IV	Lead	ug/L	23	19	83%	-0.132	0.708	
09_2_117	MW-15019	Appendix IV	Lithium	ug/L	24	3	12%	0.353	0.083	
09_2_119	MW-15019	Appendix IV	Molybdenum	ug/L	24	20	83%	-0.110	0.755	
09_2_125	MW-15019	Appendix IV	Radium-226+228	pCi/L	24	5	21%	0.208	0.327	
09_2_127	MW-15019	Appendix IV	Selenium	ug/L	24	19	79%	0.381	0.259	
09_2_131	MW-15019	Appendix IV	Thallium	ug/L	23	20	87%	-0.013	0.972	
10_2_102	MW-15020	Appendix IV	Arsenic	ug/L	24	18	75%	0.336	0.297	
10_2_103	MW-15020	Appendix IV	Barium	ug/L	24	0	0%	0.704	0.000	***
10_2_109	MW-15020	Appendix IV	Chromium	ug/L	24	13	54%	0.352	0.183	
10_2_110	MW-15020	Appendix IV	Cobalt	ug/L	23	19	83%	-0.266	0.452	
10_2_114	MW-15020	Appendix IV	Fluoride	ug/L	25	22	88%	-0.062	0.865	
10_2_116	MW-15020	Appendix IV	Lead	ug/L	23	22	96%	NA	NA	
10_2_117	MW-15020	Appendix IV	Lithium	ug/L	24	4	17%	0.837	0.000	***
10_2_119	MW-15020	Appendix IV	Molybdenum	ug/L	24	23	96%	NA	NA	
10_2_125	MW-15020	Appendix IV	Radium-226+228	pCi/L	24	6	25%	0.358	0.100	
10_2_127	MW-15020	Appendix IV	Selenium	ug/L	24	21	88%	-0.561	0.124	
11_2_101	MW-15021	Appendix IV	Antimony	ug/L	23	22	96%	NA	NA	
11_2_102	MW-15021	Appendix IV	Arsenic	ug/L	24	6	25%	0.224	0.303	
11_2_103	MW-15021	Appendix IV	Barium	ug/L	24	0	0%	0.812	0.000	***
11_2_104	MW-15021	Appendix IV	Beryllium	ug/L	23	22	96%	NA	NA	
11_2_109	MW-15021	Appendix IV	Chromium	ug/L	24	6	25%	0.567	0.009	**
11_2_110	MW-15021	Appendix IV	Cobalt	ug/L	23	14	61%	0.046	0.872	
11_2_114	MW-15021	Appendix IV	Fluoride	ug/L	25	23	92%	-0.500	0.157	
11_2_117	MW-15021	Appendix IV	Lithium	ug/L	24	18	75%	-0.384	0.234	
11_2_118	MW-15021	Appendix IV	Mercury	ug/L	23	22	96%	NA	NA	
11_2_125	MW-15021	Appendix IV	Radium-226+228	pCi/L	24	3	12%	0.031	0.880	
11_2_127	MW-15021	Appendix IV	Selenium	ug/L	24	15	62%	0.014	0.961	
12_2_101	MW-15022	Appendix IV	Antimony	ug/L	24	23	96%	NA	NA	
12_2_102	MW-15022	Appendix IV	Arsenic	ug/L	25	10	40%	0.705	0.003	**
12_2_103	MW-15022	Appendix IV	Barium	ug/L	25	0	0%	0.317	0.093	
12_2_109	MW-15022	Appendix IV	Chromium	ug/L	25	17	68%	0.454	0.125	
12_2_110	MW-15022	Appendix IV	Cobalt	ug/L	24	19	79%	-0.389	0.250	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
12_2_114	MW-15022	Appendix IV	Fluoride	ug/L	26	19	73%	0.595	0.054	
12_2_117	MW-15022	Appendix IV	Lithium	ug/L	25	8	32%	0.540	0.015	*
12_2_118	MW-15022	Appendix IV	Mercury	ug/L	24	23	96%	NA	NA	
12_2_119	MW-15022	Appendix IV	Molybdenum	ug/L	25	12	48%	0.082	0.740	
12_2_125	MW-15022	Appendix IV	Radium-226+228	pCi/L	25	11	44%	0.030	0.900	
12_2_127	MW-15022	Appendix IV	Selenium	ug/L	25	24	96%	NA	NA	
13_2_102	MW-15023	Appendix IV	Arsenic	ug/L	24	8	33%	0.335	0.142	
13_2_103	MW-15023	Appendix IV	Barium	ug/L	24	0	0%	0.499	0.009	**
13_2_109	MW-15023	Appendix IV	Chromium	ug/L	24	17	71%	0.301	0.329	
13_2_110	MW-15023	Appendix IV	Cobalt	ug/L	23	21	91%	NA	NA	
13_2_114	MW-15023	Appendix IV	Fluoride	ug/L	25	16	64%	0.462	0.104	
13_2_117	MW-15023	Appendix IV	Lithium	ug/L	24	5	21%	0.354	0.095	
13_2_118	MW-15023	Appendix IV	Mercury	ug/L	23	22	96%	NA	NA	
13_2_119	MW-15023	Appendix IV	Molybdenum	ug/L	24	4	17%	0.367	0.078	
13_2_125	MW-15023	Appendix IV	Radium-226+228	pCi/L	24	9	38%	0.339	0.148	
13_2_127	MW-15023	Appendix IV	Selenium	ug/L	24	21	88%	-0.057	0.877	
14_2_101	MW-17001R	Appendix IV	Antimony	ug/L	11	10	91%	NA	NA	
14_2_102	MW-17001R	Appendix IV	Arsenic	ug/L	11	5	45%	0.179	0.578	
14_2_103	MW-17001R	Appendix IV	Barium	ug/L	11	0	0%	0.582	0.028	*
14_2_109	MW-17001R	Appendix IV	Chromium	ug/L	11	7	64%	0.297	0.401	
14_2_110	MW-17001R	Appendix IV	Cobalt	ug/L	11	6	55%	-0.230	0.497	
14_2_114	MW-17001R	Appendix IV	Fluoride	ug/L	11	2	18%	0.000	0.999	
14_2_117	MW-17001R	Appendix IV	Lithium	ug/L	11	0	0%	0.174	0.512	
14_2_119	MW-17001R	Appendix IV	Molybdenum	ug/L	11	6	55%	-0.507	0.134	
14_2_125	MW-17001R	Appendix IV	Radium-226+228	pCi/L	11	0	0%	0.108	0.684	
15_2_101	MW-17002	Appendix IV	Antimony	ug/L	17	15	88%	-0.500	0.157	
15_2_102	MW-17002	Appendix IV	Arsenic	ug/L	18	0	0%	0.462	0.033	*
15_2_103	MW-17002	Appendix IV	Barium	ug/L	18	0	0%	-0.026	0.903	
15_2_104	MW-17002	Appendix IV	Beryllium	ug/L	17	16	94%	NA	NA	
15_2_106	MW-17002	Appendix IV	Cadmium	ug/L	17	13	76%	-0.250	0.480	
15_2_109	MW-17002	Appendix IV	Chromium	ug/L	18	11	61%	-0.350	0.257	
15_2_110	MW-17002	Appendix IV	Cobalt	ug/L	17	15	88%	-0.500	0.157	
15_2_114	MW-17002	Appendix IV	Fluoride	ug/L	18	8	44%	-0.124	0.650	
15_2_116	MW-17002	Appendix IV	Lead	ug/L	17	16	94%	NA	NA	
15_2_117	MW-17002	Appendix IV	Lithium	ug/L	18	0	0%	0.362	0.095	
15_2_119	MW-17002	Appendix IV	Molybdenum	ug/L	18	6	33%	0.448	0.080	
15_2_125	MW-17002	Appendix IV	Radium-226+228	pCi/L	18	3	17%	-0.414	0.077	
15_2_127	MW-17002	Appendix IV	Selenium	ug/L	18	15	83%	-0.254	0.487	
15_2_131	MW-17002	Appendix IV	Thallium	ug/L	17	16	94%	NA	NA	
16_2_101	MW-17003	Appendix IV	Antimony	ug/L	16	15	94%	NA	NA	
16_2_102	MW-17003	Appendix IV	Arsenic	ug/L	17	2	12%	0.686	0.003	**
16_2_103	MW-17003	Appendix IV	Barium	ug/L	17	0	0%	0.506	0.023	*

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
16_2_104	MW-17003	Appendix IV	Beryllium	ug/L	16	14	88%	-0.500	0.157	
16_2_106	MW-17003	Appendix IV	Cadmium	ug/L	16	15	94%	NA	NA	
16_2_109	MW-17003	Appendix IV	Chromium	ug/L	17	12	71%	0.284	0.401	
16_2_110	MW-17003	Appendix IV	Cobalt	ug/L	16	11	69%	0.392	0.246	
16_2_114	MW-17003	Appendix IV	Fluoride	ug/L	17	11	65%	-0.312	0.334	
16_2_117	MW-17003	Appendix IV	Lithium	ug/L	17	0	0%	0.695	0.002	**
16_2_119	MW-17003	Appendix IV	Molybdenum	ug/L	17	4	24%	0.709	0.004	**
16_2_125	MW-17003	Appendix IV	Radium-226+228	pCi/L	17	6	35%	0.040	0.881	
16_2_127	MW-17003	Appendix IV	Selenium	ug/L	17	13	76%	-0.098	0.781	
17_2_101	MW-17004	Appendix IV	Antimony	ug/L	17	14	82%	-0.162	0.657	
17_2_102	MW-17004	Appendix IV	Arsenic	ug/L	18	2	11%	0.582	0.011	*
17_2_103	MW-17004	Appendix IV	Barium	ug/L	18	0	0%	0.409	0.060	
17_2_106	MW-17004	Appendix IV	Cadmium	ug/L	17	16	94%	NA	NA	
17_2_109	MW-17004	Appendix IV	Chromium	ug/L	18	12	67%	-0.287	0.374	
17_2_110	MW-17004	Appendix IV	Cobalt	ug/L	17	11	65%	0.099	0.759	
17_2_114	MW-17004	Appendix IV	Fluoride	ug/L	18	13	72%	-0.139	0.680	
17_2_116	MW-17004	Appendix IV	Lead	ug/L	17	14	82%	-0.167	0.648	
17_2_117	MW-17004	Appendix IV	Lithium	ug/L	18	6	33%	0.714	0.005	**
17_2_119	MW-17004	Appendix IV	Molybdenum	ug/L	18	7	39%	0.643	0.015	*
17_2_125	MW-17004	Appendix IV	Radium-226+228	pCi/L	18	6	33%	-0.184	0.471	
17_2_127	MW-17004	Appendix IV	Selenium	ug/L	18	14	78%	-0.076	0.831	
17_2_131	MW-17004	Appendix IV	Thallium	ug/L	17	14	82%	-0.164	0.654	
18_2_102	MW-17005	Appendix IV	Arsenic	ug/L	18	13	72%	0.002	0.995	
18_2_103	MW-17005	Appendix IV	Barium	ug/L	18	0	0%	0.314	0.149	
18_2_104	MW-17005	Appendix IV	Beryllium	ug/L	17	16	94%	NA	NA	
18_2_109	MW-17005	Appendix IV	Chromium	ug/L	18	11	61%	-0.125	0.685	
18_2_110	MW-17005	Appendix IV	Cobalt	ug/L	17	16	94%	NA	NA	
18_2_114	MW-17005	Appendix IV	Fluoride	ug/L	18	14	78%	-0.343	0.332	
18_2_116	MW-17005	Appendix IV	Lead	ug/L	17	16	94%	NA	NA	
18_2_117	MW-17005	Appendix IV	Lithium	ug/L	18	3	17%	0.054	0.816	
18_2_119	MW-17005	Appendix IV	Molybdenum	ug/L	18	15	83%	-0.167	0.648	
18_2_125	MW-17005	Appendix IV	Radium-226+228	pCi/L	18	5	28%	-0.187	0.450	
19_2_102	MW-17006	Appendix IV	Arsenic	ug/L	18	7	39%	0.361	0.172	
19_2_103	MW-17006	Appendix IV	Barium	ug/L	18	0	0%	0.613	0.005	**
19_2_109	MW-17006	Appendix IV	Chromium	ug/L	18	15	83%	-0.172	0.638	
19_2_110	MW-17006	Appendix IV	Cobalt	ug/L	17	16	94%	NA	NA	
19_2_114	MW-17006	Appendix IV	Fluoride	ug/L	18	9	50%	-0.168	0.555	
19_2_117	MW-17006	Appendix IV	Lithium	ug/L	18	0	0%	0.072	0.740	
19_2_118	MW-17006	Appendix IV	Mercury	ug/L	17	16	94%	NA	NA	
19_2_119	MW-17006	Appendix IV	Molybdenum	ug/L	18	13	72%	0.112	0.741	
19_2_125	MW-17006	Appendix IV	Radium-226+228	pCi/L	18	6	33%	-0.348	0.174	
19_2_127	MW-17006	Appendix IV	Selenium	ug/L	18	17	94%	NA	NA	

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 5: Outlier Counts by Date

Date	Count
2016-07-13	1
2016-09-29	1
2017-12-06	1
2018-02-20	1
2019-09-26	2
2020-05-05	3
2020-05-07	2
2020-05-21	1
2020-06-15	1
2021-04-21	1
2021-04-22	3
2021-10-22	1
2022-02-01	2
2022-05-03	6
2022-05-05	1
2022-10-20	1
2023-04-11	2
2023-04-12	2
2023-10-04	1
2025-04-22	5
2025-04-24	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	Value
01_2_103	MW-15009	Appendix IV	Barium	ug/L	24	0	0%	24	2022-05-05	250
01_2_117	MW-15009	Appendix IV	Lithium	ug/L	24	0	0%	24	2020-05-07	63.9
03_2_119	MW-15013	Appendix IV	Molybdenum	ug/L	24	5	21%	19	2020-05-07	77.2
04_2_102	MW-15014R	Appendix IV	Arsenic	ug/L	9	5	56%	4	2022-02-01	1.60
04_2_117	MW-15014R	Appendix IV	Lithium	ug/L	9	0	0%	9	2023-04-11	130
04_2_119	MW-15014R	Appendix IV	Molybdenum	ug/L	9	2	22%	7	2022-02-01	11.0
05_2_101	MW-15015R	Appendix IV	Antimony	ug/L	12	6	50%	6	2023-04-11	13.0
06_2_102	MW-15016R	Appendix IV	Arsenic	ug/L	12	1	8%	11	2020-06-15	10.1
06_2_117	MW-15016R	Appendix IV	Lithium	ug/L	12	3	25%	9	2023-04-12	110
06_2_127	MW-15016R	Appendix IV	Selenium	ug/L	12	8	67%	4	2021-04-21	1.30
07_2_109	MW-15017	Appendix IV	Chromium	ug/L	24	1	4%	23	2016-09-29	11.0
07_2_127	MW-15017	Appendix IV	Selenium	ug/L	24	12	50%	12	2016-07-13	8.00
08_2_103	MW-15018	Appendix IV	Barium	ug/L	24	0	0%	24	2021-04-22	280
08_2_116	MW-15018	Appendix IV	Lead	ug/L	23	17	74%	6	2021-10-22	3.90
09_2_102	MW-15019	Appendix IV	Arsenic	ug/L	24	15	62%	9	2022-05-03	8.10
12_2_125	MW-15022	Appendix IV	Radium-226+228	pCi/L	25	11	44%	14	2020-05-05	3.50

(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	Value
13_2_102	MW-15023	Appendix IV	Arsenic	ug/L	24	8	33%	16	2025-04-22	27.0
13_2_103	MW-15023	Appendix IV	Barium	ug/L	24	0	0%	24	2025-04-22	270
13_2_117	MW-15023	Appendix IV	Lithium	ug/L	24	5	21%	19	2025-04-22	67.0
13_2_125	MW-15023	Appendix IV	Radium-226+228	pCi/L	24	9	38%	15	2025-04-22	3.28
14_2_102	MW-17001R	Appendix IV	Arsenic	ug/L	11	5	45%	6	2020-05-21	7.30
14_2_110	MW-17001R	Appendix IV	Cobalt	ug/L	11	6	55%	5	2023-10-04	0.830
15_2_102	MW-17002	Appendix IV	Arsenic	ug/L	18	0	0%	18	2023-04-12	220
16_2_103	MW-17003	Appendix IV	Barium	ug/L	17	0	0%	17	2021-04-22	320
16_2_127	MW-17003	Appendix IV	Selenium	ug/L	17	13	76%	4	2018-02-20	2.20
17_2_101	MW-17004	Appendix IV	Antimony	ug/L	17	14	82%	3	2022-05-03	1.20
17_2_109	MW-17004	Appendix IV	Chromium	ug/L	18	12	67%	6	2022-05-03	7.80
17_2_116	MW-17004	Appendix IV	Lead	ug/L	17	14	82%	3	2022-05-03	19.0
17_2_125	MW-17004	Appendix IV	Radium-226+228	pCi/L	18	6	33%	12	2021-04-22	4.93
17_2_127	MW-17004	Appendix IV	Selenium	ug/L	18	14	78%	4	2022-05-03	2.60
17_2_131	MW-17004	Appendix IV	Thallium	ug/L	17	14	82%	3	2022-05-03	1.80
18_2_102	MW-17005	Appendix IV	Arsenic	ug/L	18	13	72%	5	2017-12-06	2.90
18_2_103	MW-17005	Appendix IV	Barium	ug/L	18	0	0%	18	2020-05-05	456
18_2_109	MW-17005	Appendix IV	Chromium	ug/L	18	11	61%	7	2019-09-26	1.10
18_2_117	MW-17005	Appendix IV	Lithium	ug/L	18	3	17%	15	2020-05-05	47.5
18_2_119	MW-17005	Appendix IV	Molybdenum	ug/L	18	15	83%	3	2025-04-22	7.60
18_2_125	MW-17005	Appendix IV	Radium-226+228	pCi/L	18	5	28%	13	2022-10-20	4.22
19_2_109	MW-17006	Appendix IV	Chromium	ug/L	18	15	83%	3	2019-09-26	1.20
19_2_119	MW-17006	Appendix IV	Molybdenum	ug/L	18	13	72%	5	2025-04-24	53.0

Table 7: Seasonality Tests

						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
01_2_101	MW-15009	Appendix IV	Antimony	ug/L	96%	3	10	3	7	23	0.514	0.310	0.250	1	0	0	0	1	NA	NA	NA
01_2_102	MW-15009	Appendix IV	Arsenic	ug/L	4%	3	10	3	8	24	0.121	0.018 *	0.141	3	9	3	8	23	0.130	0.023 *	0.130
01_2_103	MW-15009	Appendix IV	Barium	ug/L	0%	3	10	3	8	24	0.148	0.271	0.085	3	10	3	8	24	0.148	0.271	0.085
01_2_104	MW-15009	Appendix IV	Beryllium	ug/L	100%	3	10	3	7	23	0.449	0.264	0.212	NA	NA	NA	NA	NA	NA	NA	NA
01_2_106	MW-15009	Appendix IV	Cadmium	ug/L	100%	3	10	3	7	23	0.095	0.771	0.610	NA	NA	NA	NA	NA	NA	NA	NA
01_2_109	MW-15009	Appendix IV	Chromium	ug/L	83%	3	10	3	8	24	0.266	0.083	0.149	0	3	1	0	4	0.180	0.097	0.239
01_2_110	MW-15009	Appendix IV	Cobalt	ug/L	91%	3	10	3	7	23	0.033 *	0.009 **	0.042 *	0	1	0	1	2	0.317	NA	NA
01_2_114	MW-15009	Appendix IV	Fluoride	ug/L	75%	3	10	3	8	24	0.121	0.080	0.109	0	5	0	1	6	0.766	0.980	0.905
01_2_116	MW-15009	Appendix IV	Lead	ug/L	100%	3	10	3	7	23	0.514	1.000	0.909	NA	NA	NA	NA	NA	NA	NA	NA
01_2_117	MW-15009	Appendix IV	Lithium	ug/L	0%	3	10	3	8	24	0.129	0.258	0.148	3	10	3	8	24	0.129	0.258	0.148
01_2_118	MW-15009	Appendix IV	Mercury	ug/L	100%	3	10	3	7	23	NA	0.071	NA	NA	NA	NA	NA	NA	NA	NA	NA
01_2_119	MW-15009	Appendix IV	Molybdenum	ug/L	25%	3	10	3	8	24	0.029 *	0.004 **	0.018 *	3	7	3	5	18	0.081	0.045 *	0.113
01_2_125	MW-15009	Appendix IV	Radium-226+228	pCi/L	50%	3	10	3	8	24	0.341	0.008 **	0.298	1	5	0	6	12	0.377	0.529	0.747
01_2_127	MW-15009	Appendix IV	Selenium	ug/L	96%	3	10	3	8	24	0.681	0.985	0.876	0	1	0	0	1	NA	NA	NA
01_2_131	MW-15009	Appendix IV	Thallium	ug/L	100%	3	10	3	7	23	0.077	0.146	0.161	NA	NA	NA	NA	NA	NA	NA	NA
02_2_101	MW-15010	Appendix IV	Antimony	ug/L	100%	3	10	4	7	24	0.679	0.517	0.453	NA	NA	NA	NA	NA	NA	NA	NA
02_2_102	MW-15010	Appendix IV	Arsenic	ug/L	88%	3	10	4	8	25	0.749	0.996	0.906	0	2	0	1	3	1.000	0.861	0.798
02_2_103	MW-15010	Appendix IV	Barium	ug/L	0%	3	10	4	8	25	0.211	0.412	0.236	3	10	4	8	25	0.211	0.412	0.236
02_2_104	MW-15010	Appendix IV	Beryllium	ug/L	96%	3	10	4	7	24	0.600	0.448	0.362	0	0	0	1	1	NA	NA	NA
02_2_106	MW-15010	Appendix IV	Cadmium	ug/L	100%	3	10	4	7	24	0.180	0.755	0.623	NA	NA	NA	NA	NA	NA	NA	NA
02_2_109	MW-15010	Appendix IV	Chromium	ug/L	60%	3	10	4	8	25	0.680	0.741	0.516	1	5	1	3	10	0.397	0.756	0.545
02_2_110	MW-15010	Appendix IV	Cobalt	ug/L	83%	3	10	4	7	24	0.098	0.042 *	0.132	0	3	0	1	4	0.655	0.522	0.496
02_2_114	MW-15010	Appendix IV	Fluoride	ug/L	58%	3	10	4	9	26	0.251	0.253	0.258	0	6	1	4	11	0.578	0.642	0.612
02_2_116	MW-15010	Appendix IV	Lead	ug/L	100%	3	10	4	7	24	0.679	0.991	0.953	NA	NA	NA	NA	NA	NA	NA	NA
02_2_117	MW-15010	Appendix IV	Lithium	ug/L	0%	3	10	4	8	25	0.693	0.727	0.625	3	10	4	8	25	0.693	0.727	0.625
02_2_118	MW-15010	Appendix IV	Mercury	ug/L	100%	3	10	4	7	24	NA	0.059	0.059	NA	NA	NA	NA	NA	NA	NA	NA
02_2_119	MW-15010	Appendix IV	Molybdenum	ug/L	44%	3	10	4	8	25	0.085	0.014 *	0.063	3	6	2	3	14	0.144	0.173	0.119
02_2_125	MW-15010	Appendix IV	Radium-226+228	pCi/L	44%	3	10	4	8	25	0.558	0.620	0.625	1	5	2	6	14	0.753	0.675	0.685
02_2_127	MW-15010	Appendix IV	Selenium	ug/L	92%	3	10	4	8	25	0.747	0.993	0.920	0	1	1	0	2	NA	NA	NA
02_2_131	MW-15010	Appendix IV	Thallium	ug/L	100%	3	10	4	7	24	0.190	0.327	0.349	NA	NA	NA	NA	NA	NA	NA	NA
03_2_101	MW-15013	Appendix IV	Antimony	ug/L	100%	3	10	3	7	23	0.514	0.310	0.250	NA	NA	NA	NA	NA	NA	NA	NA
03_2_102	MW-15013	Appendix IV	Arsenic	ug/L	79%	3	10	3	8	24	0.736	0.966	0.924	0	3	0	2	5	0.564	0.421	0.584
03_2_103	MW-15013	Appendix IV	Barium	ug/L	0%	3	10	3	8	24	0.384	0.324	0.452	3	10	3	8	24	0.384	0.324	0.452
03_2_104	MW-15013	Appendix IV	Beryllium	ug/L	96%	3	10	3	7	23	0.453	0.264	0.212	0	1	0	0	1	NA	NA	NA
03_2_106	MW-15013	Appendix IV	Cadmium	ug/L	100%	3	10	3	7	23	0.095	0.771	0.610	NA	NA	NA	NA	NA	NA	NA	NA
03_2_109	MW-15013	Appendix IV	Chromium	ug/L	79%	3	10	3	8	24	0.742	0.661	0.517	0	3	1	1	5	0.839	0.896	0.997
03_2_110	MW-15013	Appendix IV	Cobalt	ug/L	83%	3	10	3	7	23	0.041 *	0.009 **	0.057	0	3	0	1	4	0.655	0.755	0.842
03_2_114	MW-15013	Appendix IV	Fluoride	ug/L	68%	3	10	3	9	25	0.148	0.113	0.153	0	5	0	3	8	0.881	0.680	0.990
03_2_116	MW-15013	Appendix IV	Lead	ug/L	96%	3	10	3	7	23	0.549	0.818	0.828	0	1	0	0	1	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
03_2_117	MW-15013	Appendix IV	Lithium	ug/L	0%	3	10	3	8	24	0.670	0.540	0.608	3	10	3	8	24	0.670	0.540	0.608
03_2_118	MW-15013	Appendix IV	Mercury	ug/L	100%	3	10	3	7	23	NA	0.071	NA	NA	NA	NA	NA	NA	NA	NA	NA
03_2_119	MW-15013	Appendix IV	Molybdenum	ug/L	21%	3	10	3	8	24	0.150	0.688	0.321	3	8	2	6	19	0.249	0.786	0.452
03_2_125	MW-15013	Appendix IV	Radium-226+228	pCi/L	38%	3	10	3	8	24	0.133	0.197	0.252	1	7	1	6	15	0.250	0.335	0.462
03_2_127	MW-15013	Appendix IV	Selenium	ug/L	88%	3	10	3	8	24	0.493	0.994	0.809	0	2	1	0	3	0.221	0.585	0.619
03_2_131	MW-15013	Appendix IV	Thallium	ug/L	96%	3	10	3	7	23	0.087	0.152	0.207	0	1	0	0	1	NA	NA	NA
04_2_101	MW-15014R	Appendix IV	Antimony	ug/L	100%	1	5	0	3	9	0.344	0.394	0.394	NA	NA	NA	NA	NA	NA	NA	NA
04_2_102	MW-15014R	Appendix IV	Arsenic	ug/L	56%	1	5	0	3	9	0.690	0.838	0.672	1	2	0	1	4	0.407	0.048 *	0.144
04_2_103	MW-15014R	Appendix IV	Barium	ug/L	0%	1	5	0	3	9	0.070	0.049 *	0.045 *	1	5	0	3	9	0.070	0.049 *	0.045 *
04_2_104	MW-15014R	Appendix IV	Beryllium	ug/L	89%	1	5	0	3	9	0.906	0.896	0.951	0	0	0	1	1	NA	NA	NA
04_2_106	MW-15014R	Appendix IV	Cadmium	ug/L	100%	1	5	0	3	9	0.344	0.394	0.394	NA	NA	NA	NA	NA	NA	NA	NA
04_2_109	MW-15014R	Appendix IV	Chromium	ug/L	89%	1	5	0	3	9	0.786	0.842	0.842	0	1	0	0	1	NA	NA	NA
04_2_110	MW-15014R	Appendix IV	Cobalt	ug/L	89%	1	5	0	3	9	0.906	0.904	0.930	0	0	0	1	1	NA	NA	NA
04_2_114	MW-15014R	Appendix IV	Fluoride	ug/L	11%	1	5	0	3	9	0.058	0.001 **	0.001 ***	1	5	0	2	8	0.116	0.006 **	0.004 **
04_2_116	MW-15014R	Appendix IV	Lead	ug/L	100%	1	5	0	3	9	0.344	0.394	0.394	NA	NA	NA	NA	NA	NA	NA	NA
04_2_117	MW-15014R	Appendix IV	Lithium	ug/L	0%	1	5	0	3	9	0.475	0.853	0.818	1	5	0	3	9	0.475	0.853	0.818
04_2_118	MW-15014R	Appendix IV	Mercury	ug/L	100%	1	5	0	3	9	NA	0.000 ***	0.000 ***	NA	NA	NA	NA	NA	NA	NA	NA
04_2_119	MW-15014R	Appendix IV	Molybdenum	ug/L	22%	1	5	0	3	9	0.298	0.047 *	0.304	1	4	0	2	7	0.300	0.004 **	0.136
04_2_125	MW-15014R	Appendix IV	Radium-226+228	pCi/L	0%	1	5	0	3	9	0.278	0.231	0.427	1	5	0	3	9	0.278	0.231	0.427
04_2_127	MW-15014R	Appendix IV	Selenium	ug/L	89%	1	5	0	3	9	0.906	0.906	0.919	0	0	0	1	1	NA	NA	NA
04_2_131	MW-15014R	Appendix IV	Thallium	ug/L	100%	1	5	0	3	9	0.344	0.394	0.394	NA	NA	NA	NA	NA	NA	NA	NA
05_2_101	MW-15015R	Appendix IV	Antimony	ug/L	50%	0	6	1	5	12	0.296	0.451	0.293	0	4	0	2	6	0.165	0.376	0.199
05_2_102	MW-15015R	Appendix IV	Arsenic	ug/L	0%	0	6	1	5	12	0.523	0.617	0.708	0	6	1	5	12	0.523	0.617	0.708
05_2_103	MW-15015R	Appendix IV	Barium	ug/L	0%	0	6	1	5	12	0.292	0.289	0.299	0	6	1	5	12	0.292	0.289	0.299
05_2_104	MW-15015R	Appendix IV	Beryllium	ug/L	92%	0	6	1	5	12	0.426	0.902	0.862	0	0	0	1	1	NA	NA	NA
05_2_106	MW-15015R	Appendix IV	Cadmium	ug/L	100%	0	6	1	5	12	0.192	0.867	0.778	NA	NA	NA	NA	NA	NA	NA	NA
05_2_109	MW-15015R	Appendix IV	Chromium	ug/L	83%	0	6	1	5	12	0.421	0.424	0.329	0	2	0	0	2	NA	NA	NA
05_2_110	MW-15015R	Appendix IV	Cobalt	ug/L	58%	0	6	1	5	12	0.675	0.865	0.801	0	3	1	1	5	0.670	0.887	0.871
05_2_114	MW-15015R	Appendix IV	Fluoride	ug/L	50%	0	6	1	5	12	0.251	0.100	0.000 ***	0	3	1	2	6	0.322	0.195	0.018 *
05_2_116	MW-15015R	Appendix IV	Lead	ug/L	100%	0	6	1	5	12	0.946	0.941	0.998	NA	NA	NA	NA	NA	NA	NA	NA
05_2_117	MW-15015R	Appendix IV	Lithium	ug/L	0%	0	6	1	5	12	0.415	0.678	0.786	0	6	1	5	12	0.415	0.678	0.786
05_2_118	MW-15015R	Appendix IV	Mercury	ug/L	100%	0	6	1	5	12	NA	0.651	0.651	NA	NA	NA	NA	NA	NA	NA	NA
05_2_119	MW-15015R	Appendix IV	Molybdenum	ug/L	0%	0	6	1	5	12	0.529	0.461	0.646	0	6	1	5	12	0.529	0.461	0.646
05_2_125	MW-15015R	Appendix IV	Radium-226+228	pCi/L	17%	0	6	1	5	12	0.198	0.137	0.242	0	4	1	5	10	0.198	0.183	0.273
05_2_127	MW-15015R	Appendix IV	Selenium	ug/L	58%	0	6	1	5	12	0.901	0.997	0.913	0	3	0	2	5	0.564	0.825	0.760
05_2_131	MW-15015R	Appendix IV	Thallium	ug/L	100%	0	6	1	5	12	0.946	1.000	0.940	NA	NA	NA	NA	NA	NA	NA	NA
06_2_101	MW-15016R	Appendix IV	Antimony	ug/L	83%	0	6	1	5	12	0.145	0.800	0.500	0	1	1	0	2	0.317	NA	NA
06_2_102	MW-15016R	Appendix IV	Arsenic	ug/L	8%	0	6	1	5	12	0.154	0.000 ***	0.008 **	0	5	1	5	11	0.213	0.001 ***	0.013 *
06_2_103	MW-15016R	Appendix IV	Barium	ug/L	0%	0	6	1	5	12	0.276	0.370	0.302	0	6	1	5	12	0.276	0.370	0.302

(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
06_2_104	MW-15016R	Appendix IV	Beryllium	ug/L	92%	0	6	1	5	12	0.426	0.898	0.869	0	0	0	1	1	NA	NA	NA
06_2_106	MW-15016R	Appendix IV	Cadmium	ug/L	100%	0	6	1	5	12	0.192	0.867	0.778	NA	NA	NA	NA	NA	NA	NA	NA
06_2_109	MW-15016R	Appendix IV	Chromium	ug/L	17%	0	6	1	5	12	0.811	0.851	0.879	0	5	1	4	10	0.911	0.929	0.949
06_2_110	MW-15016R	Appendix IV	Cobalt	ug/L	8%	0	6	1	5	12	0.531	0.395	0.402	0	5	1	5	11	0.449	0.293	0.332
06_2_114	MW-15016R	Appendix IV	Fluoride	ug/L	75%	0	6	1	5	12	0.279	0.572	0.733	0	2	1	0	3	0.221	0.204	0.287
06_2_116	MW-15016R	Appendix IV	Lead	ug/L	83%	0	6	1	5	12	0.523	0.987	0.868	0	1	0	1	2	0.317	NA	NA
06_2_117	MW-15016R	Appendix IV	Lithium	ug/L	25%	0	6	1	5	12	0.209	0.683	0.643	0	5	1	3	9	0.298	0.703	0.591
06_2_118	MW-15016R	Appendix IV	Mercury	ug/L	100%	0	6	1	5	12	NA	0.651	0.651	NA	NA	NA	NA	NA	NA	NA	NA
06_2_119	MW-15016R	Appendix IV	Molybdenum	ug/L	67%	0	6	1	5	12	0.165	0.138	0.243	0	2	1	1	4	0.259	0.391	0.393
06_2_125	MW-15016R	Appendix IV	Radium-226+228	pCi/L	0%	0	6	1	5	12	0.697	0.666	0.559	0	6	1	5	12	0.697	0.666	0.559
06_2_127	MW-15016R	Appendix IV	Selenium	ug/L	67%	0	6	1	5	12	0.835	0.981	0.881	0	3	0	1	4	0.655	0.713	0.825
06_2_131	MW-15016R	Appendix IV	Thallium	ug/L	100%	0	6	1	5	12	0.552	0.907	0.715	NA	NA	NA	NA	NA	NA	NA	NA
07_2_101	MW-15017	Appendix IV	Antimony	ug/L	100%	3	10	3	7	23	0.514	0.310	0.250	NA	NA	NA	NA	NA	NA	NA	NA
07_2_102	MW-15017	Appendix IV	Arsenic	ug/L	4%	3	10	3	8	24	0.033 *	0.050	0.021 *	3	9	3	8	23	0.039 *	0.062	0.025 *
07_2_103	MW-15017	Appendix IV	Barium	ug/L	0%	3	10	3	8	24	0.584	0.462	0.424	3	10	3	8	24	0.584	0.462	0.424
07_2_104	MW-15017	Appendix IV	Beryllium	ug/L	91%	3	10	3	7	23	0.453	0.265	0.347	0	1	0	1	2	0.317	NA	NA
07_2_106	MW-15017	Appendix IV	Cadmium	ug/L	100%	3	10	3	7	23	0.095	0.771	0.610	NA	NA	NA	NA	NA	NA	NA	NA
07_2_109	MW-15017	Appendix IV	Chromium	ug/L	4%	3	10	3	8	24	0.051	0.173	0.099	3	10	3	7	23	0.061	0.198	0.128
07_2_110	MW-15017	Appendix IV	Cobalt	ug/L	57%	3	10	3	7	23	0.038 *	0.008 **	0.021 *	0	5	0	5	10	0.602	0.913	0.656
07_2_114	MW-15017	Appendix IV	Fluoride	ug/L	96%	3	10	3	9	25	0.137	0.111	0.233	0	1	0	0	1	NA	NA	NA
07_2_116	MW-15017	Appendix IV	Lead	ug/L	100%	3	10	3	7	23	0.788	0.821	0.918	NA	NA	NA	NA	NA	NA	NA	NA
07_2_117	MW-15017	Appendix IV	Lithium	ug/L	67%	3	10	3	8	24	0.979	0.857	0.750	0	5	0	3	8	0.368	0.303	0.280
07_2_118	MW-15017	Appendix IV	Mercury	ug/L	100%	3	10	3	7	23	NA	0.071	NA	NA	NA	NA	NA	NA	NA	NA	NA
07_2_119	MW-15017	Appendix IV	Molybdenum	ug/L	88%	3	10	3	8	24	0.498	0.329	0.345	0	2	0	1	3	1.000	0.739	0.850
07_2_125	MW-15017	Appendix IV	Radium-226+228	pCi/L	0%	3	10	3	8	24	0.271	0.408	0.483	3	10	3	8	24	0.271	0.408	0.483
07_2_127	MW-15017	Appendix IV	Selenium	ug/L	50%	3	10	3	8	24	0.032 *	0.006 **	0.016 *	3	4	3	2	12	0.282	0.289	0.178
07_2_131	MW-15017	Appendix IV	Thallium	ug/L	100%	3	10	3	7	23	0.089	0.233	0.268	NA	NA	NA	NA	NA	NA	NA	NA
08_2_101	MW-15018	Appendix IV	Antimony	ug/L	100%	3	10	3	7	23	0.514	0.310	0.250	NA	NA	NA	NA	NA	NA	NA	NA
08_2_102	MW-15018	Appendix IV	Arsenic	ug/L	58%	3	10	3	8	24	0.349	0.900	0.706	1	4	1	4	10	0.276	0.638	0.431
08_2_103	MW-15018	Appendix IV	Barium	ug/L	0%	3	10	3	8	24	0.341	0.972	0.910	3	10	3	8	24	0.341	0.972	0.910
08_2_104	MW-15018	Appendix IV	Beryllium	ug/L	96%	3	10	3	7	23	0.448	0.259	0.207	0	0	0	1	1	NA	NA	NA
08_2_106	MW-15018	Appendix IV	Cadmium	ug/L	100%	3	10	3	7	23	0.095	0.771	0.610	NA	NA	NA	NA	NA	NA	NA	NA
08_2_109	MW-15018	Appendix IV	Chromium	ug/L	42%	3	10	3	8	24	0.549	0.527	0.462	1	7	1	5	14	0.511	0.658	0.630
08_2_110	MW-15018	Appendix IV	Cobalt	ug/L	83%	3	10	3	7	23	0.041 *	0.009 **	0.040 *	0	2	0	2	4	0.121	0.150	0.205
08_2_114	MW-15018	Appendix IV	Fluoride	ug/L	60%	3	10	3	9	25	0.148	0.106	0.120	0	6	0	4	10	0.520	0.664	0.701
08_2_116	MW-15018	Appendix IV	Lead	ug/L	74%	3	10	3	7	23	0.711	0.590	0.687	0	3	0	3	6	0.050 *	0.291	0.188
08_2_117	MW-15018	Appendix IV	Lithium	ug/L	0%	3	10	3	8	24	0.670	0.904	0.861	3	10	3	8	24	0.670	0.904	0.861
08_2_118	MW-15018	Appendix IV	Mercury	ug/L	100%	3	10	3	7	23	NA	0.071	NA	NA	NA	NA	NA	NA	NA	NA	NA
08_2_119	MW-15018	Appendix IV	Molybdenum	ug/L	92%	3	10	3	8	24	0.494	0.326	0.269	0	0	0	2	2	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
08_2_125	MW-15018	Appendix IV	Radium-226+228	pCi/L	17%	3	10	3	8	24	0.496	0.375	0.449	2	9	2	7	20	0.673	0.528	0.579
08_2_127	MW-15018	Appendix IV	Selenium	ug/L	83%	3	10	3	8	24	0.267	0.219	0.282	0	2	1	1	4	0.259	0.130	0.258
08_2_131	MW-15018	Appendix IV	Thallium	ug/L	96%	3	10	3	7	23	0.074	0.142	0.152	0	0	0	1	1	NA	NA	NA
09_2_101	MW-15019	Appendix IV	Antimony	ug/L	100%	3	10	3	7	23	0.514	0.310	0.250	NA	NA	NA	NA	NA	NA	NA	NA
09_2_102	MW-15019	Appendix IV	Arsenic	ug/L	62%	3	10	3	8	24	0.783	0.624	0.810	0	5	0	4	9	0.624	0.448	0.721
09_2_103	MW-15019	Appendix IV	Barium	ug/L	0%	3	10	3	8	24	0.065	0.079	0.065	3	10	3	8	24	0.065	0.079	0.065
09_2_104	MW-15019	Appendix IV	Beryllium	ug/L	96%	3	10	3	7	23	0.486	0.289	0.221	0	0	0	1	1	NA	NA	NA
09_2_106	MW-15019	Appendix IV	Cadmium	ug/L	96%	3	10	3	7	23	0.312	0.833	0.846	0	0	0	1	1	NA	NA	NA
09_2_109	MW-15019	Appendix IV	Chromium	ug/L	58%	3	10	3	8	24	0.432	0.325	0.257	0	5	1	4	10	0.265	0.308	0.334
09_2_110	MW-15019	Appendix IV	Cobalt	ug/L	57%	3	10	3	7	23	0.038 *	0.008 **	0.021 *	0	5	0	5	10	0.602	0.842	0.965
09_2_114	MW-15019	Appendix IV	Fluoride	ug/L	92%	3	10	3	9	25	0.130	0.104	0.135	0	2	0	0	2	NA	NA	NA
09_2_116	MW-15019	Appendix IV	Lead	ug/L	83%	3	10	3	7	23	0.673	0.999	0.903	0	2	0	2	4	1.000	0.539	0.667
09_2_117	MW-15019	Appendix IV	Lithium	ug/L	12%	3	10	3	8	24	0.105	0.165	0.301	3	9	3	6	21	0.177	0.296	0.426
09_2_118	MW-15019	Appendix IV	Mercury	ug/L	100%	3	10	3	7	23	NA	0.071	NA	NA	NA	NA	NA	NA	NA	NA	NA
09_2_119	MW-15019	Appendix IV	Molybdenum	ug/L	83%	3	10	3	8	24	0.478	0.337	0.227	0	3	0	1	4	0.180	0.467	0.265
09_2_125	MW-15019	Appendix IV	Radium-226+228	pCi/L	21%	3	10	3	8	24	0.321	0.214	0.270	3	8	2	6	19	0.173	0.151	0.199
09_2_127	MW-15019	Appendix IV	Selenium	ug/L	79%	3	10	3	8	24	0.205	0.617	0.445	0	2	2	1	5	0.223	0.131	0.119
09_2_131	MW-15019	Appendix IV	Thallium	ug/L	87%	3	10	3	7	23	0.093	0.169	0.174	0	2	0	1	3	0.221	0.422	0.265
10_2_101	MW-15020	Appendix IV	Antimony	ug/L	100%	3	10	3	7	23	0.514	0.310	0.250	NA	NA	NA	NA	NA	NA	NA	NA
10_2_102	MW-15020	Appendix IV	Arsenic	ug/L	75%	3	10	3	8	24	0.491	0.991	0.748	0	4	0	2	6	0.643	0.837	0.730
10_2_103	MW-15020	Appendix IV	Barium	ug/L	0%	3	10	3	8	24	0.055	0.083	0.029 *	3	10	3	8	24	0.055	0.083	0.029 *
10_2_104	MW-15020	Appendix IV	Beryllium	ug/L	100%	3	10	3	7	23	0.449	0.264	0.212	NA	NA	NA	NA	NA	NA	NA	NA
10_2_106	MW-15020	Appendix IV	Cadmium	ug/L	100%	3	10	3	7	23	0.095	0.771	0.610	NA	NA	NA	NA	NA	NA	NA	NA
10_2_109	MW-15020	Appendix IV	Chromium	ug/L	54%	3	10	3	8	24	0.353	0.099	0.210	1	4	1	5	11	0.281	0.009 **	0.103
10_2_110	MW-15020	Appendix IV	Cobalt	ug/L	83%	3	10	3	7	23	0.039 *	0.009 **	0.042 *	0	3	0	1	4	0.655	0.888	0.979
10_2_114	MW-15020	Appendix IV	Fluoride	ug/L	88%	3	10	3	9	25	0.141	0.105	0.158	0	3	0	0	3	NA	NA	NA
10_2_116	MW-15020	Appendix IV	Lead	ug/L	96%	3	10	3	7	23	0.486	1.000	0.910	0	1	0	0	1	NA	NA	NA
10_2_117	MW-15020	Appendix IV	Lithium	ug/L	17%	3	10	3	8	24	0.102	0.129	0.238	3	9	3	5	20	0.227	0.226	0.236
10_2_118	MW-15020	Appendix IV	Mercury	ug/L	100%	3	10	3	7	23	NA	0.071	NA	NA	NA	NA	NA	NA	NA	NA	NA
10_2_119	MW-15020	Appendix IV	Molybdenum	ug/L	96%	3	10	3	8	24	0.494	0.327	0.293	0	0	0	1	1	NA	NA	NA
10_2_125	MW-15020	Appendix IV	Radium-226+228	pCi/L	25%	3	10	3	8	24	0.138	0.326	0.113	1	8	1	8	18	0.540	0.631	0.560
10_2_127	MW-15020	Appendix IV	Selenium	ug/L	88%	3	10	3	8	24	0.219	0.578	0.369	1	0	2	0	3	0.221	0.407	0.344
10_2_131	MW-15020	Appendix IV	Thallium	ug/L	100%	3	10	3	7	23	0.077	0.146	0.161	NA	NA	NA	NA	NA	NA	NA	NA
11_2_101	MW-15021	Appendix IV	Antimony	ug/L	96%	3	9	4	7	23	0.732	0.524	0.497	0	1	0	0	1	NA	NA	NA
11_2_102	MW-15021	Appendix IV	Arsenic	ug/L	25%	3	9	4	8	24	0.489	0.294	0.239	3	6	3	6	18	0.541	0.311	0.285
11_2_103	MW-15021	Appendix IV	Barium	ug/L	0%	3	9	4	8	24	0.303	0.411	0.406	3	9	4	8	24	0.303	0.411	0.406
11_2_104	MW-15021	Appendix IV	Beryllium	ug/L	96%	3	9	4	7	23	0.690	0.523	0.545	0	1	0	0	1	NA	NA	NA
11_2_106	MW-15021	Appendix IV	Cadmium	ug/L	100%	3	9	4	7	23	0.190	0.761	0.640	NA	NA	NA	NA	NA	NA	NA	NA
11_2_109	MW-15021	Appendix IV	Chromium	ug/L	25%	3	9	4	8	24	0.342	0.164	0.212	2	7	3	6	18	0.238	0.077	0.115

(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
11_2_110	MW-15021	Appendix IV	Cobalt	ug/L	61%	3	9	4	7	23	0.138	0.046 *	0.094	0	4	1	4	9	0.264	0.411	0.448
11_2_114	MW-15021	Appendix IV	Fluoride	ug/L	92%	3	9	4	9	25	0.289	0.299	0.324	0	2	0	0	2	NA	NA	NA
11_2_116	MW-15021	Appendix IV	Lead	ug/L	100%	3	9	4	7	23	0.676	0.981	0.938	NA	NA	NA	NA	NA	NA	NA	NA
11_2_117	MW-15021	Appendix IV	Lithium	ug/L	75%	3	9	4	8	24	0.416	0.422	0.554	0	3	0	3	6	0.658	0.801	0.775
11_2_118	MW-15021	Appendix IV	Mercury	ug/L	96%	3	9	4	7	23	0.515	0.544	0.544	0	0	0	1	1	NA	NA	NA
11_2_119	MW-15021	Appendix IV	Molybdenum	ug/L	100%	3	9	4	8	24	0.735	0.608	0.535	NA	NA	NA	NA	NA	NA	NA	NA
11_2_125	MW-15021	Appendix IV	Radium-226+228	pCi/L	12%	3	9	4	8	24	0.310	0.289	0.327	3	7	3	8	21	0.386	0.338	0.409
11_2_127	MW-15021	Appendix IV	Selenium	ug/L	62%	3	9	4	8	24	0.397	0.361	0.417	2	4	2	1	9	0.148	0.122	0.155
11_2_131	MW-15021	Appendix IV	Thallium	ug/L	100%	3	9	4	7	23	0.201	0.348	0.361	NA	NA	NA	NA	NA	NA	NA	NA
12_2_101	MW-15022	Appendix IV	Antimony	ug/L	96%	3	10	4	7	24	0.710	0.628	0.502	0	1	0	0	1	NA	NA	NA
12_2_102	MW-15022	Appendix IV	Arsenic	ug/L	40%	3	10	4	8	25	0.142	0.110	0.140	3	6	3	3	15	0.390	0.414	0.342
12_2_103	MW-15022	Appendix IV	Barium	ug/L	0%	3	10	4	8	25	0.259	0.139	0.195	3	10	4	8	25	0.259	0.139	0.195
12_2_104	MW-15022	Appendix IV	Beryllium	ug/L	100%	3	10	4	7	24	0.618	0.467	0.405	NA	NA	NA	NA	NA	NA	NA	NA
12_2_106	MW-15022	Appendix IV	Cadmium	ug/L	100%	3	10	4	7	24	0.180	0.755	0.623	NA	NA	NA	NA	NA	NA	NA	NA
12_2_109	MW-15022	Appendix IV	Chromium	ug/L	68%	3	10	4	8	25	0.812	0.794	0.616	1	4	1	2	8	0.567	0.874	0.700
12_2_110	MW-15022	Appendix IV	Cobalt	ug/L	79%	3	10	4	7	24	0.083	0.038 *	0.092	0	3	0	2	5	0.139	0.144	0.155
12_2_114	MW-15022	Appendix IV	Fluoride	ug/L	73%	3	10	4	9	26	0.263	0.271	0.315	0	5	1	1	7	0.308	0.272	0.394
12_2_116	MW-15022	Appendix IV	Lead	ug/L	100%	3	10	4	7	24	0.679	0.991	0.953	NA	NA	NA	NA	NA	NA	NA	NA
12_2_117	MW-15022	Appendix IV	Lithium	ug/L	32%	3	10	4	8	25	0.065	0.158	0.073	0	8	2	7	17	0.623	0.499	0.493
12_2_118	MW-15022	Appendix IV	Mercury	ug/L	96%	3	10	4	7	24	0.488	0.515	0.515	0	0	0	1	1	NA	NA	NA
12_2_119	MW-15022	Appendix IV	Molybdenum	ug/L	48%	3	10	4	8	25	0.151	0.362	0.231	3	5	2	3	13	0.183	0.346	0.402
12_2_125	MW-15022	Appendix IV	Radium-226+228	pCi/L	44%	3	10	4	8	25	0.126	0.258	0.111	0	8	1	5	14	0.192	0.299	0.111
12_2_127	MW-15022	Appendix IV	Selenium	ug/L	96%	3	10	4	8	25	0.713	0.988	0.756	0	0	0	1	1	NA	NA	NA
12_2_131	MW-15022	Appendix IV	Thallium	ug/L	100%	3	10	4	7	24	0.190	0.327	0.349	NA	NA	NA	NA	NA	NA	NA	NA
13_2_101	MW-15023	Appendix IV	Antimony	ug/L	100%	3	10	3	7	23	0.514	0.310	0.250	NA	NA	NA	NA	NA	NA	NA	NA
13_2_102	MW-15023	Appendix IV	Arsenic	ug/L	33%	3	10	3	8	24	0.407	0.806	0.914	3	6	2	5	16	0.728	0.760	0.990
13_2_103	MW-15023	Appendix IV	Barium	ug/L	0%	3	10	3	8	24	0.178	0.495	0.311	3	10	3	8	24	0.178	0.495	0.311
13_2_104	MW-15023	Appendix IV	Beryllium	ug/L	100%	3	10	3	7	23	0.449	0.264	0.212	NA	NA	NA	NA	NA	NA	NA	NA
13_2_106	MW-15023	Appendix IV	Cadmium	ug/L	100%	3	10	3	7	23	0.095	0.771	0.610	NA	NA	NA	NA	NA	NA	NA	NA
13_2_109	MW-15023	Appendix IV	Chromium	ug/L	71%	3	10	3	8	24	0.643	0.633	0.388	0	4	1	2	7	0.600	0.786	0.660
13_2_110	MW-15023	Appendix IV	Cobalt	ug/L	91%	3	10	3	7	23	0.034 *	0.009 **	0.045 *	0	1	0	1	2	NA	NA	NA
13_2_114	MW-15023	Appendix IV	Fluoride	ug/L	64%	3	10	3	9	25	0.145	0.106	0.121	0	5	0	4	9	0.621	0.969	0.896
13_2_116	MW-15023	Appendix IV	Lead	ug/L	100%	3	10	3	7	23	0.514	1.000	0.909	NA	NA	NA	NA	NA	NA	NA	NA
13_2_117	MW-15023	Appendix IV	Lithium	ug/L	21%	3	10	3	8	24	0.442	0.400	0.328	2	9	1	7	19	0.509	0.589	0.511
13_2_118	MW-15023	Appendix IV	Mercury	ug/L	96%	3	10	3	7	23	0.515	0.544	0.544	0	0	0	1	1	NA	NA	NA
13_2_119	MW-15023	Appendix IV	Molybdenum	ug/L	17%	3	10	3	8	24	0.850	0.710	0.750	3	6	3	8	20	0.441	0.428	0.375
13_2_125	MW-15023	Appendix IV	Radium-226+228	pCi/L	38%	3	10	3	8	24	0.393	0.462	0.479	2	7	0	6	15	0.576	0.468	0.639
13_2_127	MW-15023	Appendix IV	Selenium	ug/L	88%	3	10	3	8	24	0.494	0.983	0.706	0	1	1	1	3	0.368	NA	NA
13_2_131	MW-15023	Appendix IV	Thallium	ug/L	100%	3	10	3	7	23	0.077	0.146	0.161	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
14_2_101	MW-17001R	Appendix IV	Antimony	ug/L	91%	0	6	1	4	11	0.452	0.455	0.367	0	1	0	0	1	NA	NA	NA
14_2_102	MW-17001R	Appendix IV	Arsenic	ug/L	45%	0	6	1	4	11	0.660	0.860	0.802	0	3	1	2	6	0.651	0.821	0.842
14_2_103	MW-17001R	Appendix IV	Barium	ug/L	0%	0	6	1	4	11	0.637	0.561	0.529	0	6	1	4	11	0.637	0.561	0.529
14_2_104	MW-17001R	Appendix IV	Beryllium	ug/L	100%	0	6	1	4	11	0.210	0.831	0.746	NA	NA	NA	NA	NA	NA	NA	NA
14_2_106	MW-17001R	Appendix IV	Cadmium	ug/L	100%	0	6	1	4	11	0.210	0.831	0.746	NA	NA	NA	NA	NA	NA	NA	NA
14_2_109	MW-17001R	Appendix IV	Chromium	ug/L	64%	0	6	1	4	11	0.300	0.781	0.615	0	2	1	1	4	0.407	0.577	0.623
14_2_110	MW-17001R	Appendix IV	Cobalt	ug/L	55%	0	6	1	4	11	0.360	0.853	0.699	0	3	1	1	5	0.202	0.003 **	0.013 *
14_2_114	MW-17001R	Appendix IV	Fluoride	ug/L	18%	0	6	1	4	11	0.148	0.057	0.083	0	6	1	2	9	0.279	0.177	0.244
14_2_116	MW-17001R	Appendix IV	Lead	ug/L	100%	0	6	1	4	11	0.650	0.984	0.959	NA	NA	NA	NA	NA	NA	NA	NA
14_2_117	MW-17001R	Appendix IV	Lithium	ug/L	0%	0	6	1	4	11	0.448	0.490	0.555	0	6	1	4	11	0.448	0.490	0.555
14_2_118	MW-17001R	Appendix IV	Mercury	ug/L	100%	0	6	1	4	11	NA	0.706	0.706	NA	NA	NA	NA	NA	NA	NA	NA
14_2_119	MW-17001R	Appendix IV	Molybdenum	ug/L	55%	0	6	1	4	11	0.256	0.663	0.250	0	3	1	1	5	0.344	0.595	0.528
14_2_125	MW-17001R	Appendix IV	Radium-226+228	pCi/L	0%	0	6	1	4	11	0.747	0.770	NA	0	6	1	4	11	0.747	0.770	NA
14_2_127	MW-17001R	Appendix IV	Selenium	ug/L	100%	0	6	1	4	11	0.650	0.988	0.923	NA	NA	NA	NA	NA	NA	NA	NA
14_2_131	MW-17001R	Appendix IV	Thallium	ug/L	100%	0	6	1	4	11	0.650	0.937	0.783	NA	NA	NA	NA	NA	NA	NA	NA
15_2_101	MW-17002	Appendix IV	Antimony	ug/L	88%	2	7	2	6	17	0.163	0.060	0.134	1	1	0	0	2	0.317	NA	NA
15_2_102	MW-17002	Appendix IV	Arsenic	ug/L	0%	2	7	2	7	18	0.891	0.472	0.679	2	7	2	7	18	0.891	0.472	0.679
15_2_103	MW-17002	Appendix IV	Barium	ug/L	0%	2	7	2	7	18	0.245	0.508	0.426	2	7	2	7	18	0.245	0.508	0.426
15_2_104	MW-17002	Appendix IV	Beryllium	ug/L	94%	2	7	2	6	17	0.418	0.246	0.191	0	0	0	1	1	NA	NA	NA
15_2_106	MW-17002	Appendix IV	Cadmium	ug/L	76%	2	7	2	6	17	0.133	0.784	0.588	0	3	0	1	4	0.317	0.423	0.423
15_2_109	MW-17002	Appendix IV	Chromium	ug/L	61%	2	7	2	7	18	0.315	0.248	0.171	0	4	0	3	7	0.050 *	0.051	0.082
15_2_110	MW-17002	Appendix IV	Cobalt	ug/L	88%	2	7	2	6	17	0.024 *	0.000 ***	0.003 **	0	1	0	1	2	0.317	NA	NA
15_2_114	MW-17002	Appendix IV	Fluoride	ug/L	44%	2	7	2	7	18	0.119	0.039 *	0.056	0	6	0	4	10	1.000	0.787	0.965
15_2_116	MW-17002	Appendix IV	Lead	ug/L	94%	2	7	2	6	17	0.961	0.960	0.968	0	0	0	1	1	NA	NA	NA
15_2_117	MW-17002	Appendix IV	Lithium	ug/L	0%	2	7	2	7	18	0.665	0.673	0.753	2	7	2	7	18	0.665	0.673	0.753
15_2_118	MW-17002	Appendix IV	Mercury	ug/L	100%	2	7	2	6	17	NA	0.037 *	NA	NA	NA	NA	NA	NA	NA	NA	NA
15_2_119	MW-17002	Appendix IV	Molybdenum	ug/L	33%	2	7	2	7	18	0.516	0.297	0.432	1	6	0	5	12	0.636	0.460	0.790
15_2_125	MW-17002	Appendix IV	Radium-226+228	pCi/L	17%	2	7	2	7	18	0.022 *	0.043 *	0.019 *	0	7	1	7	15	0.037 *	0.106	0.051
15_2_127	MW-17002	Appendix IV	Selenium	ug/L	83%	2	7	2	7	18	0.372	0.745	0.573	1	1	0	1	3	0.368	NA	NA
15_2_131	MW-17002	Appendix IV	Thallium	ug/L	94%	2	7	2	6	17	0.080	0.312	0.387	0	0	0	1	1	NA	NA	NA
16_2_101	MW-17003	Appendix IV	Antimony	ug/L	94%	2	7	2	5	16	0.196	0.062	0.092	1	0	0	0	1	NA	NA	NA
16_2_102	MW-17003	Appendix IV	Arsenic	ug/L	12%	2	7	2	6	17	0.119	0.626	0.028 *	1	7	1	6	15	0.438	0.866	0.155
16_2_103	MW-17003	Appendix IV	Barium	ug/L	0%	2	7	2	6	17	0.823	0.960	0.930	2	7	2	6	17	0.823	0.960	0.930
16_2_104	MW-17003	Appendix IV	Beryllium	ug/L	88%	2	7	2	5	16	0.370	0.180	0.127	0	1	0	1	2	0.317	NA	NA
16_2_106	MW-17003	Appendix IV	Cadmium	ug/L	94%	2	7	2	5	16	0.101	0.808	0.717	0	1	0	0	1	NA	NA	NA
16_2_109	MW-17003	Appendix IV	Chromium	ug/L	71%	2	7	2	6	17	0.378	0.266	0.223	0	3	0	2	5	0.248	0.547	0.534
16_2_110	MW-17003	Appendix IV	Cobalt	ug/L	69%	2	7	2	5	16	0.262	0.928	0.227	0	3	0	2	5	1.000	0.963	0.785
16_2_114	MW-17003	Appendix IV	Fluoride	ug/L	65%	2	7	2	6	17	0.089	0.011 *	0.028 *	0	4	0	2	6	1.000	0.841	0.921
16_2_116	MW-17003	Appendix IV	Lead	ug/L	100%	2	7	2	5	16	0.916	0.812	0.932	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
16_2_117	MW-17003	Appendix IV	Lithium	ug/L	0%	2	7	2	6	17	0.144	0.613	0.338	2	7	2	6	17	0.144	0.613	0.338
16_2_118	MW-17003	Appendix IV	Mercury	ug/L	100%	2	7	2	5	16	NA	0.050 *	0.050 *	NA	NA	NA	NA	NA	NA	NA	NA
16_2_119	MW-17003	Appendix IV	Molybdenum	ug/L	24%	2	7	2	6	17	0.281	0.768	0.442	2	6	0	5	13	0.834	0.889	0.844
16_2_125	MW-17003	Appendix IV	Radium-226+228	pCi/L	35%	2	7	2	6	17	0.021 *	0.004 **	0.022 *	0	5	0	6	11	0.100	0.051	0.044 *
16_2_127	MW-17003	Appendix IV	Selenium	ug/L	76%	2	7	2	6	17	0.380	0.537	0.394	1	2	0	1	4	0.259	0.008 **	0.044 *
16_2_131	MW-17003	Appendix IV	Thallium	ug/L	100%	2	7	2	5	16	0.044 *	0.231	0.278	NA	NA	NA	NA	NA	NA	NA	NA
17_2_101	MW-17004	Appendix IV	Antimony	ug/L	82%	2	7	2	6	17	0.440	0.139	0.317	0	3	0	0	3	NA	NA	NA
17_2_102	MW-17004	Appendix IV	Arsenic	ug/L	11%	2	7	2	7	18	0.263	0.501	0.315	2	7	1	6	16	0.363	0.621	0.477
17_2_103	MW-17004	Appendix IV	Barium	ug/L	0%	2	7	2	7	18	0.905	0.849	0.979	2	7	2	7	18	0.905	0.849	0.979
17_2_104	MW-17004	Appendix IV	Beryllium	ug/L	100%	2	7	2	6	17	0.374	0.243	0.176	NA	NA	NA	NA	NA	NA	NA	NA
17_2_106	MW-17004	Appendix IV	Cadmium	ug/L	94%	2	7	2	6	17	0.113	0.790	0.624	0	1	0	0	1	NA	NA	NA
17_2_109	MW-17004	Appendix IV	Chromium	ug/L	67%	2	7	2	7	18	0.562	0.824	0.724	0	3	1	2	6	0.643	0.773	0.837
17_2_110	MW-17004	Appendix IV	Cobalt	ug/L	65%	2	7	2	6	17	0.026 *	0.000 ***	0.013 *	0	4	0	2	6	0.165	0.433	0.391
17_2_114	MW-17004	Appendix IV	Fluoride	ug/L	72%	2	7	2	7	18	0.088	0.029 *	0.038 *	0	3	0	2	5	1.000	0.661	0.745
17_2_116	MW-17004	Appendix IV	Lead	ug/L	82%	2	7	2	6	17	0.534	0.653	0.711	0	2	0	1	3	0.480	0.667	0.667
17_2_117	MW-17004	Appendix IV	Lithium	ug/L	33%	2	7	2	7	18	0.703	0.537	0.628	0	6	0	6	12	0.936	0.916	0.749
17_2_118	MW-17004	Appendix IV	Mercury	ug/L	100%	2	7	2	6	17	NA	0.037 *	NA	NA	NA	NA	NA	NA	NA	NA	NA
17_2_119	MW-17004	Appendix IV	Molybdenum	ug/L	39%	2	7	2	7	18	0.754	0.708	0.913	2	6	0	3	11	0.121	0.145	0.401
17_2_125	MW-17004	Appendix IV	Radium-226+228	pCi/L	33%	2	7	2	7	18	0.167	0.788	NA	0	7	0	5	12	0.808	0.496	NA
17_2_127	MW-17004	Appendix IV	Selenium	ug/L	78%	2	7	2	7	18	0.640	0.826	0.738	0	3	0	1	4	0.180	0.658	0.618
17_2_131	MW-17004	Appendix IV	Thallium	ug/L	82%	2	7	2	6	17	0.079	0.193	0.296	0	2	0	1	3	1.000	0.670	0.683
18_2_101	MW-17005	Appendix IV	Antimony	ug/L	100%	2	7	2	6	17	0.261	0.085	0.155	NA	NA	NA	NA	NA	NA	NA	NA
18_2_102	MW-17005	Appendix IV	Arsenic	ug/L	72%	2	7	2	7	18	0.218	0.484	0.379	1	3	0	1	5	0.344	0.003 **	0.082
18_2_103	MW-17005	Appendix IV	Barium	ug/L	0%	2	7	2	7	18	0.829	0.993	0.920	2	7	2	7	18	0.829	0.993	0.920
18_2_104	MW-17005	Appendix IV	Beryllium	ug/L	94%	2	7	2	6	17	0.418	0.249	0.235	0	0	0	1	1	NA	NA	NA
18_2_106	MW-17005	Appendix IV	Cadmium	ug/L	100%	2	7	2	6	17	0.096	0.829	0.685	NA	NA	NA	NA	NA	NA	NA	NA
18_2_109	MW-17005	Appendix IV	Chromium	ug/L	61%	2	7	2	7	18	0.545	0.321	0.264	0	4	0	3	7	0.157	0.208	0.167
18_2_110	MW-17005	Appendix IV	Cobalt	ug/L	94%	2	7	2	6	17	0.019 *	0.000 ***	0.003 **	0	1	0	0	1	NA	NA	NA
18_2_114	MW-17005	Appendix IV	Fluoride	ug/L	78%	2	7	2	7	18	0.084	0.027 *	0.036 *	0	2	0	2	4	1.000	0.783	0.605
18_2_116	MW-17005	Appendix IV	Lead	ug/L	94%	2	7	2	6	17	0.500	0.999	0.801	0	0	0	1	1	NA	NA	NA
18_2_117	MW-17005	Appendix IV	Lithium	ug/L	17%	2	7	2	7	18	0.405	0.984	0.852	2	6	1	6	15	0.540	0.990	0.906
18_2_118	MW-17005	Appendix IV	Mercury	ug/L	100%	2	7	2	6	17	NA	0.037 *	NA	NA	NA	NA	NA	NA	NA	NA	NA
18_2_119	MW-17005	Appendix IV	Molybdenum	ug/L	83%	2	7	2	7	18	0.718	0.593	0.492	0	2	0	1	3	0.480	0.667	0.667
18_2_125	MW-17005	Appendix IV	Radium-226+228	pCi/L	28%	2	7	2	7	18	0.090	0.559	0.252	0	7	0	6	13	0.568	0.375	0.469
18_2_127	MW-17005	Appendix IV	Selenium	ug/L	100%	2	7	2	7	18	0.432	0.766	0.567	NA	NA	NA	NA	NA	NA	NA	NA
18_2_131	MW-17005	Appendix IV	Thallium	ug/L	100%	2	7	2	6	17	0.063	0.116	0.144	NA	NA	NA	NA	NA	NA	NA	NA
19_2_101	MW-17006	Appendix IV	Antimony	ug/L	100%	2	6	3	6	17	0.620	0.443	0.483	NA	NA	NA	NA	NA	NA	NA	NA
19_2_102	MW-17006	Appendix IV	Arsenic	ug/L	39%	2	6	3	7	18	0.734	0.774	0.675	2	4	1	4	11	0.943	0.945	0.901
19_2_103	MW-17006	Appendix IV	Barium	ug/L	0%	2	6	3	7	18	0.976	0.919	0.951	2	6	3	7	18	0.976	0.919	0.951

(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
19_2_104	MW-17006	Appendix IV	Beryllium	ug/L	100%	2	6	3	6	17	0.612	0.515	0.429	NA	NA	NA	NA	NA	NA	NA	NA
19_2_106	MW-17006	Appendix IV	Cadmium	ug/L	100%	2	6	3	6	17	0.196	0.797	0.688	NA	NA	NA	NA	NA	NA	NA	NA
19_2_109	MW-17006	Appendix IV	Chromium	ug/L	83%	2	6	3	7	18	0.741	0.611	0.513	0	1	0	2	3	0.221	0.661	0.652
19_2_110	MW-17006	Appendix IV	Cobalt	ug/L	94%	2	6	3	6	17	0.071	0.002 **	0.049 *	0	1	0	0	1	NA	NA	NA
19_2_114	MW-17006	Appendix IV	Fluoride	ug/L	50%	2	6	3	7	18	0.293	0.147	0.190	0	5	1	3	9	0.817	0.967	0.955
19_2_116	MW-17006	Appendix IV	Lead	ug/L	100%	2	6	3	6	17	0.721	0.982	0.966	NA	NA	NA	NA	NA	NA	NA	NA
19_2_117	MW-17006	Appendix IV	Lithium	ug/L	0%	2	6	3	7	18	0.340	0.675	0.629	2	6	3	7	18	0.340	0.675	0.629
19_2_118	MW-17006	Appendix IV	Mercury	ug/L	94%	2	6	3	6	17	0.608	0.650	0.650	0	0	0	1	1	NA	NA	NA
19_2_119	MW-17006	Appendix IV	Molybdenum	ug/L	72%	2	6	3	7	18	0.729	0.663	0.812	0	4	0	1	5	0.480	0.908	0.683
19_2_125	MW-17006	Appendix IV	Radium-226+228	pCi/L	33%	2	6	3	7	18	0.367	0.353	0.472	0	5	1	6	12	0.051	0.020 *	0.152
19_2_127	MW-17006	Appendix IV	Selenium	ug/L	94%	2	6	3	7	18	0.747	0.954	0.782	0	0	0	1	1	NA	NA	NA
19_2_131	MW-17006	Appendix IV	Thallium	ug/L	100%	2	6	3	6	17	0.197	0.348	0.388	NA	NA	NA	NA	NA	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
01_2_102	MW-15009	Appendix IV	Arsenic	ug/L	24	1	4%	Parametric	Lognormal MLE	-0.000427	0.071	↔
01_2_103	MW-15009	Appendix IV	Barium	ug/L	24	0	0%	Nonparametric	MK	0.0273	0.000	↑
01_2_117	MW-15009	Appendix IV	Lithium	ug/L	24	0	0%	Parametric	Lognormal MLE	0.000217	0.001	↑
02_2_103	MW-15010	Appendix IV	Barium	ug/L	25	0	0%	Parametric	Lognormal MLE	0.000412	0.000	↑
02_2_117	MW-15010	Appendix IV	Lithium	ug/L	25	0	0%	Parametric	Lognormal MLE	0.0000951	0.171	↔
02_2_119	MW-15010	Appendix IV	Molybdenum	ug/L	25	11	44%	Parametric	Lognormal MLE	-0.000990	0.000	↓
02_2_125	MW-15010	Appendix IV	Radium-226+228	pCi/L	25	11	44%	Parametric	Lognormal MLE	0.000353	0.016	↔
03_2_103	MW-15013	Appendix IV	Barium	ug/L	24	0	0%	Nonparametric	MK	0.0136	0.059	↔
03_2_117	MW-15013	Appendix IV	Lithium	ug/L	24	0	0%	Parametric	Lognormal MLE	0.000201	0.000	↑
03_2_119	MW-15013	Appendix IV	Molybdenum	ug/L	24	5	21%	Parametric	Lognormal MLE	-0.000867	0.000	↓
03_2_125	MW-15013	Appendix IV	Radium-226+228	pCi/L	24	9	38%	Parametric	Lognormal MLE	0.0000564	0.622	↔
04_2_103	MW-15014R	Appendix IV	Barium	ug/L	9	0	0%	Parametric	Lognormal MLE	-0.0000256	0.674	↔
04_2_114	MW-15014R	Appendix IV	Fluoride	ug/L	9	1	11%	Parametric	Lognormal MLE	-0.0000849	0.609	↔
04_2_117	MW-15014R	Appendix IV	Lithium	ug/L	9	0	0%	Parametric	Lognormal MLE	0.0000263	0.929	↔
04_2_119	MW-15014R	Appendix IV	Molybdenum	ug/L	9	2	22%	Parametric	Lognormal MLE	-0.00127	0.007	↓
04_2_125	MW-15014R	Appendix IV	Radium-226+228	pCi/L	9	0	0%	Parametric	Lognormal MLE	-0.000109	0.832	↔
05_2_102	MW-15015R	Appendix IV	Arsenic	ug/L	12	0	0%	Parametric	Lognormal MLE	0.00101	0.000	↑
05_2_103	MW-15015R	Appendix IV	Barium	ug/L	12	0	0%	Parametric	Lognormal MLE	-0.000310	0.016	↔
05_2_117	MW-15015R	Appendix IV	Lithium	ug/L	12	0	0%	Parametric	Lognormal MLE	0.000730	0.027	↔
05_2_119	MW-15015R	Appendix IV	Molybdenum	ug/L	12	0	0%	Parametric	Lognormal MLE	0.00163	0.013	↔
05_2_125	MW-15015R	Appendix IV	Radium-226+228	pCi/L	12	2	17%	Parametric	Lognormal MLE	-0.0000517	0.876	↔
06_2_102	MW-15016R	Appendix IV	Arsenic	ug/L	12	1	8%	Nonparametric	MK	0.000127	0.783	↔
06_2_103	MW-15016R	Appendix IV	Barium	ug/L	12	0	0%	Parametric	Lognormal MLE	0.000138	0.020	↔
06_2_109	MW-15016R	Appendix IV	Chromium	ug/L	12	2	17%	Parametric	Lognormal MLE	0.0000757	0.409	↔
06_2_110	MW-15016R	Appendix IV	Cobalt	ug/L	12	1	8%	Parametric	Lognormal MLE	-0.000297	0.008	↓
06_2_125	MW-15016R	Appendix IV	Radium-226+228	pCi/L	12	0	0%	Parametric	Lognormal MLE	0.000246	0.092	↔
07_2_102	MW-15017	Appendix IV	Arsenic	ug/L	24	1	4%	Nonparametric	MK	-0.00107	0.000	↓
07_2_103	MW-15017	Appendix IV	Barium	ug/L	24	0	0%	Parametric	Lognormal MLE	0.0000378	0.022	↔
07_2_109	MW-15017	Appendix IV	Chromium	ug/L	24	1	4%	Parametric	Lognormal MLE	-0.000676	0.000	↓
07_2_125	MW-15017	Appendix IV	Radium-226+228	pCi/L	24	0	0%	Parametric	Lognormal MLE	-0.0000441	0.087	↔
08_2_103	MW-15018	Appendix IV	Barium	ug/L	24	0	0%	Nonparametric	MK	-0.00798	0.086	↔
08_2_109	MW-15018	Appendix IV	Chromium	ug/L	24	10	42%	Parametric	Lognormal MLE	-0.000179	0.049	↔
08_2_117	MW-15018	Appendix IV	Lithium	ug/L	24	0	0%	Parametric	Lognormal MLE	-0.0000623	0.183	↔
08_2_125	MW-15018	Appendix IV	Radium-226+228	pCi/L	24	4	17%	Parametric	Lognormal MLE	-0.0000654	0.317	↔
09_2_103	MW-15019	Appendix IV	Barium	ug/L	24	0	0%	Nonparametric	MK	0.0670	0.000	↑
09_2_125	MW-15019	Appendix IV	Radium-226+228	pCi/L	24	5	21%	Parametric	Lognormal MLE	0.000262	0.008	↑
10_2_103	MW-15020	Appendix IV	Barium	ug/L	24	0	0%	Parametric	Lognormal MLE	0.000485	0.000	↑
10_2_117	MW-15020	Appendix IV	Lithium	ug/L	24	4	17%	Parametric	Lognormal MLE	-0.000364	0.001	↓
10_2_125	MW-15020	Appendix IV	Radium-226+228	pCi/L	24	6	25%	Parametric	Lognormal MLE	0.000413	0.001	↑
11_2_102	MW-15021	Appendix IV	Arsenic	ug/L	24	6	25%	Parametric	Lognormal MLE	-0.0000958	0.467	↔
11_2_103	MW-15021	Appendix IV	Barium	ug/L	24	0	0%	Nonparametric	MK	0.0490	0.001	↑
11_2_109	MW-15021	Appendix IV	Chromium	ug/L	24	6	25%	Parametric	Lognormal MLE	-0.000198	0.001	↓
11_2_125	MW-15021	Appendix IV	Radium-226+228	pCi/L	24	3	12%	Parametric	Lognormal MLE	0.000127	0.222	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
12_2_102	MW-15022	Appendix IV	Arsenic	ug/L	25	10	40%	Parametric	Lognormal MLE	-0.00121	0.000	↓
12_2_103	MW-15022	Appendix IV	Barium	ug/L	25	0	0%	Parametric	Lognormal MLE	0.000162	0.000	↑
12_2_117	MW-15022	Appendix IV	Lithium	ug/L	25	8	32%	Parametric	Lognormal MLE	0.000682	0.000	↑
12_2_119	MW-15022	Appendix IV	Molybdenum	ug/L	25	12	48%	Parametric	Lognormal MLE	-0.00139	0.000	↓
12_2_125	MW-15022	Appendix IV	Radium-226+228	pCi/L	25	11	44%	Parametric	Lognormal MLE	0.000259	0.098	↔
13_2_103	MW-15023	Appendix IV	Barium	ug/L	24	0	0%	Parametric	Lognormal MLE	0.000255	0.001	↑
13_2_117	MW-15023	Appendix IV	Lithium	ug/L	24	5	21%	Parametric	Lognormal MLE	0.000324	0.002	↑
13_2_119	MW-15023	Appendix IV	Molybdenum	ug/L	24	4	17%	Nonparametric	MK	0.00140	0.004	↑
13_2_125	MW-15023	Appendix IV	Radium-226+228	pCi/L	24	9	38%	Parametric	Lognormal MLE	0.000336	0.039	↔
14_2_102	MW-17001R	Appendix IV	Arsenic	ug/L	11	5	45%	Parametric	Lognormal MLE	-0.00124	0.012	↔
14_2_103	MW-17001R	Appendix IV	Barium	ug/L	11	0	0%	Parametric	Lognormal MLE	0.000655	0.000	↑
14_2_114	MW-17001R	Appendix IV	Fluoride	ug/L	11	2	18%	Parametric	Lognormal MLE	-0.000153	0.160	↔
14_2_117	MW-17001R	Appendix IV	Lithium	ug/L	11	0	0%	Parametric	Lognormal MLE	0.000330	0.245	↔
15_2_102	MW-17002	Appendix IV	Arsenic	ug/L	18	0	0%	Parametric	Lognormal MLE	0.00159	0.000	↑
15_2_103	MW-17002	Appendix IV	Barium	ug/L	18	0	0%	Parametric	Lognormal MLE	-0.000124	0.290	↔
15_2_114	MW-17002	Appendix IV	Fluoride	ug/L	18	8	44%	Parametric	Lognormal MLE	-0.0000474	0.783	↔
15_2_117	MW-17002	Appendix IV	Lithium	ug/L	18	0	0%	Parametric	Lognormal MLE	0.000283	0.002	↑
15_2_119	MW-17002	Appendix IV	Molybdenum	ug/L	18	6	33%	Parametric	Lognormal MLE	0.00331	0.000	↑
15_2_125	MW-17002	Appendix IV	Radium-226+228	pCi/L	18	3	17%	Parametric	Lognormal MLE	-0.00000461	0.986	↔
16_2_102	MW-17003	Appendix IV	Arsenic	ug/L	17	2	12%	Parametric	Lognormal MLE	0.00168	0.000	↑
16_2_103	MW-17003	Appendix IV	Barium	ug/L	17	0	0%	Parametric	Lognormal MLE	-0.000460	0.006	↓
16_2_117	MW-17003	Appendix IV	Lithium	ug/L	17	0	0%	Nonparametric	MK	0.0517	0.000	↑
16_2_119	MW-17003	Appendix IV	Molybdenum	ug/L	17	4	24%	Parametric	Lognormal MLE	0.00117	0.000	↑
16_2_125	MW-17003	Appendix IV	Radium-226+228	pCi/L	17	6	35%	Parametric	Lognormal MLE	0.000179	0.267	↔
17_2_102	MW-17004	Appendix IV	Arsenic	ug/L	18	2	11%	Parametric	Lognormal MLE	0.000792	0.001	↑
17_2_103	MW-17004	Appendix IV	Barium	ug/L	18	0	0%	Parametric	Lognormal MLE	-0.000289	0.043	↔
17_2_119	MW-17004	Appendix IV	Molybdenum	ug/L	18	7	39%	Parametric	Lognormal MLE	0.00119	0.003	↑
18_2_103	MW-17005	Appendix IV	Barium	ug/L	18	0	0%	Parametric	Lognormal MLE	-0.000232	0.096	↔
18_2_117	MW-17005	Appendix IV	Lithium	ug/L	18	3	17%	Parametric	Lognormal MLE	-0.0000209	0.914	↔
18_2_125	MW-17005	Appendix IV	Radium-226+228	pCi/L	18	5	28%	Parametric	Lognormal MLE	0.000273	0.191	↔
19_2_102	MW-17006	Appendix IV	Arsenic	ug/L	18	7	39%	Parametric	Lognormal MLE	-0.000564	0.107	↔
19_2_103	MW-17006	Appendix IV	Barium	ug/L	18	0	0%	Parametric	Lognormal MLE	-0.0000299	0.703	↔
19_2_117	MW-17006	Appendix IV	Lithium	ug/L	18	0	0%	Parametric	Lognormal MLE	-0.000177	0.039	↔
19_2_125	MW-17006	Appendix IV	Radium-226+228	pCi/L	18	6	33%	Parametric	Lognormal MLE	0.000473	0.058	↔

Table 9: Trend Tests: Piecewise Linear-Linear

								Line 1			Line 2					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared	Overall Trend
01_2_101	MW-15009	Appendix IV	Antimony	ug/L	23	22	96%	-0.00028992	0.039	↔	> -0.0001	0.940	↔	2021-10-20	0.422	↔
01_2_102	MW-15009	Appendix IV	Arsenic	ug/L	24	1	4%	-0.026199	0.000	↓	0.0096005	0.001	↑	2019-07-08	0.781	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared	Overall Trend
01_2_103	MW-15009	Appendix IV	Barium	ug/L	24	0	0%	0.045962	0.001	↑	-0.041856	0.547	↔	2023-03-19	0.544	↔
01_2_104	MW-15009	Appendix IV	Beryllium	ug/L	23	23	100%	-0.00037385	0.023	↔	< 0.0001	0.759	↔	2021-04-19	0.461	↔
01_2_106	MW-15009	Appendix IV	Cadmium	ug/L	23	23	100%	< 0.0001	1.000	↔	0.0001562	0.211	↔	2018-12-31	0.200	↔
01_2_109	MW-15009	Appendix IV	Chromium	ug/L	24	20	83%	-0.00043493	0.019	↔	< 0.0001	0.829	↔	2021-04-19	0.453	↔
01_2_110	MW-15009	Appendix IV	Cobalt	ug/L	23	21	91%	-0.0088956	0.000	↓	< 0.0001	0.975	↔	2021-02-16	0.903	↔
01_2_114	MW-15009	Appendix IV	Fluoride	ug/L	24	18	75%	-0.46861	0.000	↓	0.063535	0.826	↔	2022-06-21	0.802	↔
01_2_116	MW-15009	Appendix IV	Lead	ug/L	23	23	100%	-0.00010371	0.786	↔	0.00020707	0.604	↔	2020-10-26	0.020	↔
01_2_117	MW-15009	Appendix IV	Lithium	ug/L	24	0	0%	0.016189	0.012	↔	-0.0069116	0.178	↔	2020-05-06	0.457	↔
01_2_119	MW-15009	Appendix IV	Molybdenum	ug/L	24	6	25%	-0.048035	0.000	↓	0.0037006	0.077	↔	2019-06-06	0.966	↔
01_2_125	MW-15009	Appendix IV	Radium-226+228	pCi/L	24	12	50%	0.0024203	0.087	↔	-0.0006312	0.012	↔	2017-10-17	0.354	↔
01_2_127	MW-15009	Appendix IV	Selenium	ug/L	24	23	96%	-0.00023671	0.400	↔	0.0001727	0.689	↔	2020-10-27	0.049	↔
01_2_131	MW-15009	Appendix IV	Thallium	ug/L	23	23	100%	-0.00076342	0.002	↓	> -0.0001	0.963	↔	2021-06-08	0.611	↔
02_2_101	MW-15010	Appendix IV	Antimony	ug/L	24	24	100%	-0.00030844	0.027	↔	> -0.0001	0.998	↔	2021-10-20	0.448	↔
02_2_102	MW-15010	Appendix IV	Arsenic	ug/L	25	22	88%	0.00012802	0.363	↔	-0.0022068	0.318	↔	2023-10-04	0.187	↔
02_2_103	MW-15010	Appendix IV	Barium	ug/L	25	0	0%	0.036876	0.000	↑	-0.24929	0.287	↔	2024-09-10	0.644	↔
02_2_104	MW-15010	Appendix IV	Beryllium	ug/L	24	23	96%	-0.0003795	0.009	↓	< 0.0001	0.910	↔	2021-04-21	0.480	↔
02_2_106	MW-15010	Appendix IV	Cadmium	ug/L	24	24	100%	< 0.0001	1.000	↔	0.0001554	0.205	↔	2019-03-12	0.189	↔
02_2_109	MW-15010	Appendix IV	Chromium	ug/L	25	15	60%	-0.00043514	0.014	↔	< 0.0001	0.872	↔	2021-04-20	0.483	↔
02_2_110	MW-15010	Appendix IV	Cobalt	ug/L	24	20	83%	-0.0088842	0.000	↓	0.00012485	0.938	↔	2021-02-28	0.907	↔
02_2_114	MW-15010	Appendix IV	Fluoride	ug/L	26	15	58%	-0.33449	0.000	↓	-0.0074943	0.976	↔	2023-01-31	0.848	↔
02_2_116	MW-15010	Appendix IV	Lead	ug/L	24	24	100%	-0.00011592	0.712	↔	0.0002372	0.602	↔	2021-03-15	0.021	↔
02_2_117	MW-15010	Appendix IV	Lithium	ug/L	25	0	0%	0.024327	0.044	↔	-0.0046423	0.255	↔	2018-06-14	0.278	↔
02_2_119	MW-15010	Appendix IV	Molybdenum	ug/L	25	11	44%	-0.05373	0.000	↓	-0.002139	0.016	↔	2017-03-21	0.901	↔
02_2_125	MW-15010	Appendix IV	Radium-226+228	pCi/L	25	11	44%	0.00030612	0.029	↔	-0.001922	0.132	↔	2023-10-03	0.275	↔
02_2_127	MW-15010	Appendix IV	Selenium	ug/L	25	23	92%	-0.00013949	0.542	↔	0.0001737	0.708	↔	2021-04-21	0.025	↔
02_2_131	MW-15010	Appendix IV	Thallium	ug/L	24	24	100%	-0.00076303	0.002	↓	< 0.0001	0.890	↔	2021-10-10	0.629	↔
03_2_101	MW-15013	Appendix IV	Antimony	ug/L	23	23	100%	-0.0002897	0.039	↔	> -0.0001	0.938	↔	2021-10-20	0.422	↔
03_2_102	MW-15013	Appendix IV	Arsenic	ug/L	24	19	79%	< 0.0001	0.812	↔	0.0036493	0.488	↔	2024-09-22	0.077	↔
03_2_103	MW-15013	Appendix IV	Barium	ug/L	24	0	0%	-0.019993	0.479	↔	0.043164	0.000	↑	2018-10-29	0.617	↔
03_2_104	MW-15013	Appendix IV	Beryllium	ug/L	23	22	96%	-0.00037503	0.022	↔	< 0.0001	0.729	↔	2021-04-20	0.461	↔
03_2_106	MW-15013	Appendix IV	Cadmium	ug/L	23	23	100%	< 0.0001	1.000	↔	0.0001561	0.211	↔	2018-12-31	0.200	↔
03_2_109	MW-15013	Appendix IV	Chromium	ug/L	24	19	79%	-0.00048833	0.010	↓	0.0011489	0.031	↔	2022-03-26	0.406	↔
03_2_110	MW-15013	Appendix IV	Cobalt	ug/L	23	19	83%	-0.0089027	0.000	↓	> -0.0001	0.964	↔	2021-02-10	0.903	↔
03_2_114	MW-15013	Appendix IV	Fluoride	ug/L	25	17	68%	-0.4039	0.000	↓	0.042299	0.883	↔	2023-01-14	0.853	↔
03_2_116	MW-15013	Appendix IV	Lead	ug/L	23	22	96%	-0.00019804	0.522	↔	0.0020107	0.031	↔	2022-03-21	0.370	↔
03_2_117	MW-15013	Appendix IV	Lithium	ug/L	24	0	0%	0.00078781	0.832	↔	0.0096368	0.005	↑	2020-03-28	0.569	↔
03_2_119	MW-15013	Appendix IV	Molybdenum	ug/L	24	5	21%	0.0034607	0.677	↔	-0.011203	0.244	↔	2020-05-07	0.134	↔
03_2_125	MW-15013	Appendix IV	Radium-226+228	pCi/L	24	9	38%	0.00028053	0.566	↔	-0.00016739	0.196	↔	2018-04-17	0.104	↔
03_2_127	MW-15013	Appendix IV	Selenium	ug/L	24	21	88%	-0.00012395	0.645	↔	< 0.0001	0.820	↔	2020-10-28	0.015	↔
03_2_131	MW-15013	Appendix IV	Thallium	ug/L	23	22	96%	-0.00075689	0.003	↓	-0.0001176	0.798	↔	2021-04-21	0.611	↔
04_2_101	MW-15014R	Appendix IV	Antimony	ug/L	9	9	100%	0.00076395	0.611	↔	-0.0014633	0.272	↔	2023-09-02	0.285	↔
04_2_102	MW-15014R	Appendix IV	Arsenic	ug/L	9	5	56%	0.003325	0.260	↔	-0.0040173	0.128	↔	2023-07-04	0.509	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared	Overall Trend
04_2_104	MW-15014R	Appendix IV	Beryllium	ug/L	9	8	89%	0.0019638	0.084	↔	-0.0015474	0.101	↔	2023-06-04	0.634	↔
04_2_106	MW-15014R	Appendix IV	Cadmium	ug/L	9	9	100%	0.00076395	0.611	↔	-0.0014633	0.272	↔	2023-09-02	0.285	↔
04_2_109	MW-15014R	Appendix IV	Chromium	ug/L	9	8	89%	0.0019638	0.091	↔	-0.0011831	0.196	↔	2023-05-14	0.574	↔
04_2_110	MW-15014R	Appendix IV	Cobalt	ug/L	9	8	89%	0.0042997	0.087	↔	-0.0034225	0.101	↔	2023-06-03	0.631	↔
04_2_116	MW-15014R	Appendix IV	Lead	ug/L	9	9	100%	0.0018093	0.611	↔	-0.0034657	0.272	↔	2023-09-02	0.285	↔
04_2_117	MW-15014R	Appendix IV	Lithium	ug/L	9	0	0%	0.11043	0.478	↔	-0.07043	0.205	↔	2023-04-10	0.379	↔
04_2_125	MW-15014R	Appendix IV	Radium-226+228	pCi/L	9	0	0%	-0.029459	0.201	↔	0.00020075	0.728	↔	2022-03-10	0.403	↔
04_2_127	MW-15014R	Appendix IV	Selenium	ug/L	9	8	89%	0.0041343	0.087	↔	-0.0032992	0.101	↔	2023-06-03	0.631	↔
04_2_131	MW-15014R	Appendix IV	Thallium	ug/L	9	9	100%	0.0012223	0.611	↔	-0.0023413	0.272	↔	2023-09-02	0.285	↔
05_2_101	MW-15015R	Appendix IV	Antimony	ug/L	12	6	50%	0.0058103	0.187	↔	-0.0086926	0.164	↔	2023-04-10	0.364	↔
05_2_102	MW-15015R	Appendix IV	Arsenic	ug/L	12	0	0%	0.014088	0.028	↔	0.068435	0.300	↔	2024-03-28	0.810	↔
05_2_103	MW-15015R	Appendix IV	Barium	ug/L	12	0	0%	0.025252	0.603	↔	-0.088242	0.050	↔	2022-10-18	0.491	↔
05_2_104	MW-15015R	Appendix IV	Beryllium	ug/L	12	11	92%	0.00060532	0.043	↔	-0.0014524	0.247	↔	2023-10-03	0.490	↔
05_2_106	MW-15015R	Appendix IV	Cadmium	ug/L	12	12	100%	0.0006144	0.036	↔	-0.0013247	0.272	↔	2023-10-03	0.496	↔
05_2_109	MW-15015R	Appendix IV	Chromium	ug/L	12	10	83%	0.00036598	0.296	↔	-0.0011566	0.465	↔	2023-10-03	0.222	↔
05_2_110	MW-15015R	Appendix IV	Cobalt	ug/L	12	7	58%	0.0013349	0.043	↔	-0.003591	0.197	↔	2023-10-03	0.519	↔
05_2_114	MW-15015R	Appendix IV	Fluoride	ug/L	12	6	50%	0.016777	0.654	↔	0.24977	0.171	↔	2024-03-27	0.463	↔
05_2_117	MW-15015R	Appendix IV	Lithium	ug/L	12	0	0%	0.049606	0.072	↔	-0.019878	0.744	↔	2023-04-11	0.434	↔
05_2_119	MW-15015R	Appendix IV	Molybdenum	ug/L	12	0	0%	0.38064	0.191	↔	-0.094961	0.456	↔	2022-05-03	0.466	↔
05_2_125	MW-15015R	Appendix IV	Radium-226+228	pCi/L	12	2	17%	0.00037627	0.568	↔	-0.0012161	0.455	↔	2023-04-11	0.171	↔
05_2_127	MW-15015R	Appendix IV	Selenium	ug/L	12	7	58%	0.0010113	0.085	↔	-0.003438	0.184	↔	2023-10-03	0.497	↔
06_2_101	MW-15016R	Appendix IV	Antimony	ug/L	12	10	83%	0.0006252	0.033	↔	-0.0013301	0.268	↔	2023-10-03	0.505	↔
06_2_102	MW-15016R	Appendix IV	Arsenic	ug/L	12	1	8%	-0.037052	0.014	↔	0.00062631	0.562	↔	2020-11-16	0.761	↔
06_2_103	MW-15016R	Appendix IV	Barium	ug/L	12	0	0%	0.40322	0.007	↑	-0.30759	0.091	↔	2023-02-20	0.728	↔
06_2_104	MW-15016R	Appendix IV	Beryllium	ug/L	12	11	92%	0.00060559	0.042	↔	-0.0014322	0.249	↔	2023-10-03	0.491	↔
06_2_106	MW-15016R	Appendix IV	Cadmium	ug/L	12	12	100%	0.00061338	0.036	↔	-0.0013223	0.272	↔	2023-10-03	0.496	↔
06_2_110	MW-15016R	Appendix IV	Cobalt	ug/L	12	1	8%	-0.012	0.725	↔	> -0.0001	0.906	↔	2020-07-22	0.211	↔
06_2_116	MW-15016R	Appendix IV	Lead	ug/L	12	10	83%	0.0013774	0.060	↔	-0.0033989	0.274	↔	2023-10-03	0.451	↔
06_2_117	MW-15016R	Appendix IV	Lithium	ug/L	12	3	25%	0.043116	0.254	↔	-0.065798	0.222	↔	2023-04-11	0.296	↔
06_2_119	MW-15016R	Appendix IV	Molybdenum	ug/L	12	8	67%	-0.026268	0.856	↔	0.00034195	0.826	↔	2020-10-27	0.308	↔
06_2_125	MW-15016R	Appendix IV	Radium-226+228	pCi/L	12	0	0%	0.0015261	0.114	↔	-0.0032872	0.429	↔	2024-03-16	0.361	↔
06_2_127	MW-15016R	Appendix IV	Selenium	ug/L	12	8	67%	0.00074983	0.252	↔	-0.0032071	0.284	↔	2023-10-03	0.368	↔
06_2_131	MW-15016R	Appendix IV	Thallium	ug/L	12	12	100%	0.0005487	0.278	↔	-0.0018166	0.426	↔	2023-10-03	0.249	↔
07_2_101	MW-15017	Appendix IV	Antimony	ug/L	23	23	100%	-0.0002898	0.020	↔	> -0.0001	0.950	↔	2021-10-22	0.422	↔
07_2_102	MW-15017	Appendix IV	Arsenic	ug/L	24	1	4%	-0.012224	0.002	↓	> -0.0001	0.991	↔	2017-12-10	0.750	↔
07_2_103	MW-15017	Appendix IV	Barium	ug/L	24	0	0%	0.065809	0.008	↑	-0.17702	0.379	↔	2023-04-12	0.330	↔
07_2_104	MW-15017	Appendix IV	Beryllium	ug/L	23	21	91%	-0.0004052	0.022	↔	< 0.0001	0.914	↔	2020-12-04	0.450	↔
07_2_106	MW-15017	Appendix IV	Cadmium	ug/L	23	23	100%	> -0.0001	1.000	↔	0.00015616	0.212	↔	2018-12-31	0.200	↔
07_2_109	MW-15017	Appendix IV	Chromium	ug/L	24	1	4%	-0.0026496	0.001	↓	0.00028073	0.850	↔	2021-09-04	0.622	↔
07_2_110	MW-15017	Appendix IV	Cobalt	ug/L	23	13	57%	-0.0085346	0.000	↓	-0.00027868	0.860	↔	2021-03-13	0.912	↔
07_2_114	MW-15017	Appendix IV	Fluoride	ug/L	25	24	96%	-0.46575	0.000	↓	0.33532	0.378	↔	2022-12-13	0.792	↔
07_2_116	MW-15017	Appendix IV	Lead	ug/L	23	23	100%	0.00027824	0.102	↔	-0.0023871	0.338	↔	2023-10-02	0.210	↔

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared	Overall Trend
07_2_117	MW-15017	Appendix IV	Lithium	ug/L	24	16	67%	-0.00012867	0.877	↔	-0.0093741	0.214	↔	2023-09-26	0.187	↔
07_2_119	MW-15017	Appendix IV	Molybdenum	ug/L	24	21	88%	-0.0018118	0.033	↔	0.00012236	0.921	↔	2021-04-20	0.409	↔
07_2_125	MW-15017	Appendix IV	Radium-226+228	pCi/L	24	0	0%	-0.00036691	0.130	↔	0.00039171	0.569	↔	2022-05-04	0.169	↔
07_2_127	MW-15017	Appendix IV	Selenium	ug/L	24	12	50%	-0.0024724	0.005	↓	0.00020398	0.763	↔	2019-11-01	0.530	↔
07_2_131	MW-15017	Appendix IV	Thallium	ug/L	23	23	100%	-0.00062431	0.032	↔	-0.00027702	0.493	↔	2020-10-29	0.528	↔
08_2_101	MW-15018	Appendix IV	Antimony	ug/L	23	23	100%	-0.00028985	0.038	↔	> -0.0001	0.940	↔	2021-10-21	0.422	↔
08_2_102	MW-15018	Appendix IV	Arsenic	ug/L	24	14	58%	0.00016233	0.435	↔	-0.0015274	0.408	↔	2023-04-13	0.109	↔
08_2_103	MW-15018	Appendix IV	Barium	ug/L	24	0	0%	0.02467	0.130	↔	-0.062578	0.017	↔	2021-04-21	0.341	↔
08_2_104	MW-15018	Appendix IV	Beryllium	ug/L	23	22	96%	-0.00036967	0.027	↔	< 0.0001	0.851	↔	2021-04-21	0.460	↔
08_2_106	MW-15018	Appendix IV	Cadmium	ug/L	23	23	100%	< 0.0001	1.000	↔	0.00015632	0.211	↔	2019-01-02	0.200	↔
08_2_109	MW-15018	Appendix IV	Chromium	ug/L	24	10	42%	> -0.0001	1.000	↔	-0.00011783	0.206	↔	2017-03-09	0.122	↔
08_2_110	MW-15018	Appendix IV	Cobalt	ug/L	23	19	83%	-0.0088493	0.000	↓	< 0.0001	0.997	↔	2021-02-20	0.904	↔
08_2_114	MW-15018	Appendix IV	Fluoride	ug/L	25	15	60%	-0.40876	0.000	↓	0.1199	0.713	↔	2023-01-23	0.818	↔
08_2_116	MW-15018	Appendix IV	Lead	ug/L	23	17	74%	0.00033707	0.102	↔	-0.0024703	0.412	↔	2023-10-06	0.180	↔
08_2_117	MW-15018	Appendix IV	Lithium	ug/L	24	0	0%	0.0082351	0.354	↔	-0.0038206	0.018	↔	2018-04-17	0.276	↔
08_2_119	MW-15018	Appendix IV	Molybdenum	ug/L	24	22	92%	-0.0017466	0.034	↔	< 0.0001	0.999	↔	2021-04-21	0.419	↔
08_2_125	MW-15018	Appendix IV	Radium-226+228	pCi/L	24	4	17%	0.00091691	0.122	↔	-0.00026822	0.012	↔	2017-11-07	0.341	↔
08_2_127	MW-15018	Appendix IV	Selenium	ug/L	24	20	83%	-0.00052275	0.263	↔	0.00018833	0.720	↔	2020-05-06	0.100	↔
08_2_131	MW-15018	Appendix IV	Thallium	ug/L	23	22	96%	-0.00076285	0.003	↓	> -0.0001	0.842	↔	2021-04-29	0.611	↔
09_2_101	MW-15019	Appendix IV	Antimony	ug/L	23	23	100%	-0.0002899	0.038	↔	> -0.0001	0.940	↔	2021-10-21	0.422	↔
09_2_102	MW-15019	Appendix IV	Arsenic	ug/L	24	15	62%	0.00092351	0.091	↔	-0.0024216	0.124	↔	2022-05-02	0.223	↔
09_2_103	MW-15019	Appendix IV	Barium	ug/L	24	0	0%	0.11627	0.001	↑	-0.13148	0.622	↔	2023-06-02	0.504	↔
09_2_104	MW-15019	Appendix IV	Beryllium	ug/L	23	22	96%	-0.00018232	0.028	↔	-0.00076771	0.512	↔	2023-10-05	0.441	↔
09_2_106	MW-15019	Appendix IV	Cadmium	ug/L	23	22	96%	> -0.0001	1.000	↔	0.00013121	0.247	↔	2018-08-27	0.155	↔
09_2_109	MW-15019	Appendix IV	Chromium	ug/L	24	14	58%	-0.00010726	0.089	↔	-0.00046386	0.612	↔	2023-10-05	0.300	↔
09_2_110	MW-15019	Appendix IV	Cobalt	ug/L	23	13	57%	-0.0087299	0.000	↓	-0.00040416	0.803	↔	2021-01-17	0.907	↔
09_2_114	MW-15019	Appendix IV	Fluoride	ug/L	25	23	92%	-0.47273	0.000	↓	0.048056	0.865	↔	2022-06-03	0.807	↔
09_2_116	MW-15019	Appendix IV	Lead	ug/L	23	19	83%	0.00018621	0.242	↔	-0.0026307	0.269	↔	2023-10-07	0.228	↔
09_2_117	MW-15019	Appendix IV	Lithium	ug/L	24	3	12%	0.036807	0.774	↔	-0.0068806	0.000	↓	2016-02-26	0.563	↔
09_2_119	MW-15019	Appendix IV	Molybdenum	ug/L	24	20	83%	-0.00026204	0.631	↔	-0.0076218	0.126	↔	2023-10-02	0.290	↔
09_2_125	MW-15019	Appendix IV	Radium-226+228	pCi/L	24	5	21%	0.0004246	0.027	↔	-0.00096177	0.723	↔	2023-10-03	0.240	↔
09_2_127	MW-15019	Appendix IV	Selenium	ug/L	24	19	79%	< 0.0001	0.976	↔	-0.0016119	0.481	↔	2023-10-07	0.126	↔
09_2_131	MW-15019	Appendix IV	Thallium	ug/L	23	20	87%	< 0.0001	1.000	↔	-0.00062262	0.002	↓	2017-10-20	0.576	↔
10_2_101	MW-15020	Appendix IV	Antimony	ug/L	23	23	100%	-0.00029026	0.038	↔	> -0.0001	0.941	↔	2021-10-19	0.422	↔
10_2_102	MW-15020	Appendix IV	Arsenic	ug/L	24	18	75%	-0.00012547	0.731	↔	< 0.0001	0.856	↔	2020-05-05	0.009	↔
10_2_103	MW-15020	Appendix IV	Barium	ug/L	24	0	0%	0.18592	0.000	↑	-0.10922	0.016	↔	2020-10-27	0.720	↔
10_2_104	MW-15020	Appendix IV	Beryllium	ug/L	23	23	100%	-0.00037351	0.023	↔	< 0.0001	0.757	↔	2021-04-21	0.461	↔
10_2_106	MW-15020	Appendix IV	Cadmium	ug/L	23	23	100%	> -0.0001	1.000	↔	0.00015661	0.210	↔	2019-01-04	0.201	↔
10_2_109	MW-15020	Appendix IV	Chromium	ug/L	24	13	54%	-0.0011607	0.557	↔	-0.00020636	0.011	↔	2016-08-14	0.442	↔
10_2_110	MW-15020	Appendix IV	Cobalt	ug/L	23	19	83%	-0.0087919	0.000	↓	> -0.0001	0.966	↔	2021-03-02	0.905	↔
10_2_114	MW-15020	Appendix IV	Fluoride	ug/L	25	22	88%	-0.47246	0.000	↓	0.087581	0.761	↔	2022-06-29	0.801	↔
10_2_116	MW-15020	Appendix IV	Lead	ug/L	23	22	96%	> -0.0001	0.792	↔	0.00018622	0.689	↔	2020-10-28	0.016	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared	Overall Trend
10_2_117	MW-15020	Appendix IV	Lithium	ug/L	24	4	17%	-0.0047858	0.000	↓	0.005517	0.225	↔	2022-09-30	0.596	↔
10_2_119	MW-15020	Appendix IV	Molybdenum	ug/L	24	23	96%	-0.0017385	0.019	↔	> -0.0001	0.965	↔	2021-04-22	0.419	↔
10_2_125	MW-15020	Appendix IV	Radium-226+228	pCi/L	24	6	25%	0.0014616	0.007	↑	-0.00062406	0.148	↔	2020-05-04	0.494	↔
10_2_127	MW-15020	Appendix IV	Selenium	ug/L	24	21	88%	-0.00023551	0.407	↔	0.00016638	0.702	↔	2020-12-14	0.051	↔
10_2_131	MW-15020	Appendix IV	Thallium	ug/L	23	23	100%	-0.0007628	0.002	↓	> -0.0001	0.966	↔	2021-06-12	0.611	↔
11_2_101	MW-15021	Appendix IV	Antimony	ug/L	23	22	96%	-0.00029065	0.038	↔	> -0.0001	0.884	↔	2021-10-19	0.428	↔
11_2_102	MW-15021	Appendix IV	Arsenic	ug/L	24	6	25%	-0.00082985	0.040	↔	0.00049915	0.136	↔	2019-12-19	0.285	↔
11_2_103	MW-15021	Appendix IV	Barium	ug/L	24	0	0%	-0.066115	0.373	↔	0.081897	0.000	↑	2017-10-29	0.774	↔
11_2_104	MW-15021	Appendix IV	Beryllium	ug/L	23	22	96%	-0.00040405	0.019	↔	< 0.0001	0.750	↔	2021-01-25	0.452	↔
11_2_106	MW-15021	Appendix IV	Cadmium	ug/L	23	23	100%	< 0.0001	1.000	↔	0.00015635	0.213	↔	2019-01-06	0.200	↔
11_2_109	MW-15021	Appendix IV	Chromium	ug/L	24	6	25%	-0.00056164	0.006	↓	0.00011949	0.579	↔	2020-06-14	0.490	↔
11_2_110	MW-15021	Appendix IV	Cobalt	ug/L	23	14	61%	-0.0088254	0.000	↓	> -0.0001	0.992	↔	2021-02-08	0.907	↔
11_2_114	MW-15021	Appendix IV	Fluoride	ug/L	25	23	92%	-0.47386	0.000	↓	0.022848	0.936	↔	2022-05-11	0.805	↔
11_2_116	MW-15021	Appendix IV	Lead	ug/L	23	23	100%	-0.00010278	0.747	↔	0.00020468	0.668	↔	2020-10-30	0.019	↔
11_2_117	MW-15021	Appendix IV	Lithium	ug/L	24	18	75%	-0.0030616	0.037	↔	-0.00099943	0.648	↔	2020-11-19	0.447	↔
11_2_118	MW-15021	Appendix IV	Mercury	ug/L	23	22	96%	< 0.0001	0.097	↔	-0.00023255	0.577	↔	2023-10-03	0.151	↔
11_2_119	MW-15021	Appendix IV	Molybdenum	ug/L	24	24	100%	-0.0017351	0.015	↔	0.00020917	0.882	↔	2021-06-15	0.419	↔
11_2_125	MW-15021	Appendix IV	Radium-226+228	pCi/L	24	3	12%	0.00031517	0.072	↔	-0.0030882	0.230	↔	2024-03-22	0.205	↔
11_2_127	MW-15021	Appendix IV	Selenium	ug/L	24	15	62%	-0.00016298	0.440	↔	-0.0018309	0.563	↔	2023-10-05	0.172	↔
11_2_131	MW-15021	Appendix IV	Thallium	ug/L	23	23	100%	-0.00075838	0.002	↓	> -0.0001	0.966	↔	2021-06-23	0.614	↔
12_2_101	MW-15022	Appendix IV	Antimony	ug/L	24	23	96%	0.0001454	0.831	↔	-0.00034664	0.008	↓	2018-04-17	0.405	↔
12_2_102	MW-15022	Appendix IV	Arsenic	ug/L	25	10	40%	-0.0068509	0.000	↓	-0.00036736	0.416	↔	2018-06-11	0.820	↔
12_2_103	MW-15022	Appendix IV	Barium	ug/L	25	0	0%	0.034775	0.012	↔	-0.014335	0.857	↔	2022-10-20	0.338	↔
12_2_104	MW-15022	Appendix IV	Beryllium	ug/L	24	24	100%	-0.00038711	0.017	↔	< 0.0001	0.727	↔	2021-04-20	0.483	↔
12_2_106	MW-15022	Appendix IV	Cadmium	ug/L	24	24	100%	> -0.0001	1.000	↔	0.00015541	0.205	↔	2019-03-12	0.189	↔
12_2_109	MW-15022	Appendix IV	Chromium	ug/L	25	17	68%	-0.00045685	0.004	↓	0.00010381	0.720	↔	2021-04-21	0.487	↔
12_2_110	MW-15022	Appendix IV	Cobalt	ug/L	24	19	79%	-0.0088937	0.000	↓	-0.00016059	0.919	↔	2021-03-01	0.912	↔
12_2_114	MW-15022	Appendix IV	Fluoride	ug/L	26	19	73%	-0.40784	0.000	↓	0.10323	0.786	↔	2023-05-06	0.872	↔
12_2_116	MW-15022	Appendix IV	Lead	ug/L	24	24	100%	-0.00011606	0.712	↔	0.0002368	0.602	↔	2021-03-14	0.021	↔
12_2_117	MW-15022	Appendix IV	Lithium	ug/L	25	8	32%	0.006624	0.049	↔	0.031128	0.000	↑	2021-10-19	0.825	↔
12_2_118	MW-15022	Appendix IV	Mercury	ug/L	24	23	96%	> -0.0001	1.000	↔	< 0.0001	0.439	↔	2020-07-11	0.080	↔
12_2_119	MW-15022	Appendix IV	Molybdenum	ug/L	25	12	48%	-0.0075395	0.049	↔	-0.00065012	0.930	↔	2021-10-14	0.367	↔
12_2_125	MW-15022	Appendix IV	Radium-226+228	pCi/L	25	11	44%	0.00064161	0.059	↔	-0.00054849	0.147	↔	2020-05-05	0.232	↔
12_2_127	MW-15022	Appendix IV	Selenium	ug/L	25	24	96%	-0.00012559	0.643	↔	< 0.0001	0.844	↔	2021-04-20	0.020	↔
12_2_131	MW-15022	Appendix IV	Thallium	ug/L	24	24	100%	-0.00076378	0.002	↓	< 0.0001	0.889	↔	2021-10-10	0.629	↔
13_2_101	MW-15023	Appendix IV	Antimony	ug/L	23	23	100%	-0.00029023	0.020	↔	> -0.0001	0.953	↔	2021-10-22	0.422	↔
13_2_102	MW-15023	Appendix IV	Arsenic	ug/L	24	8	33%	-0.00027743	0.523	↔	0.043883	0.000	↑	2023-11-16	0.914	↔
13_2_103	MW-15023	Appendix IV	Barium	ug/L	24	0	0%	0.0048315	0.375	↔	0.43723	0.000	↑	2024-01-25	0.848	↔
13_2_104	MW-15023	Appendix IV	Beryllium	ug/L	23	23	100%	-0.0003739	0.023	↔	< 0.0001	0.757	↔	2021-04-20	0.461	↔
13_2_106	MW-15023	Appendix IV	Cadmium	ug/L	23	23	100%	> -0.0001	1.000	↔	0.00015668	0.210	↔	2019-01-04	0.201	↔
13_2_109	MW-15023	Appendix IV	Chromium	ug/L	24	17	71%	-0.0004548	0.005	↓	0.00013131	0.667	↔	2021-04-21	0.469	↔
13_2_110	MW-15023	Appendix IV	Cobalt	ug/L	23	21	91%	-0.0089055	0.000	↓	< 0.0001	0.973	↔	2021-02-16	0.903	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared	Overall Trend
13_2_114	MW-15023	Appendix IV	Fluoride	ug/L	25	16	64%	-0.42302	0.000	↓	0.051775	0.876	↔	2023-01-04	0.828	↔
13_2_116	MW-15023	Appendix IV	Lead	ug/L	23	23	100%	-0.00010403	0.744	↔	0.00020859	0.655	↔	2020-10-30	0.020	↔
13_2_117	MW-15023	Appendix IV	Lithium	ug/L	24	5	21%	0.0005061	0.739	↔	0.09811	0.000	↑	2023-12-24	0.798	↔
13_2_118	MW-15023	Appendix IV	Mercury	ug/L	23	22	96%	< 0.0001	1.000	↔	< 0.0001	0.402	↔	2020-03-27	0.085	↔
13_2_119	MW-15023	Appendix IV	Molybdenum	ug/L	24	4	17%	-0.00029288	0.961	↔	0.0065977	0.026	↔	2019-02-21	0.391	↔
13_2_125	MW-15023	Appendix IV	Radium-226+228	pCi/L	24	9	38%	> -0.0001	0.508	↔	0.008674	0.041	↔	2024-06-24	0.561	↔
13_2_127	MW-15023	Appendix IV	Selenium	ug/L	24	21	88%	-0.00018944	0.557	↔	0.00015563	0.672	↔	2020-10-29	0.032	↔
13_2_131	MW-15023	Appendix IV	Thallium	ug/L	23	23	100%	-0.00076332	0.002	↓	> -0.0001	0.966	↔	2021-06-11	0.612	↔
14_2_101	MW-17001R	Appendix IV	Antimony	ug/L	11	10	91%	-0.001252	0.767	↔	0.00018121	0.656	↔	2020-10-29	0.043	↔
14_2_102	MW-17001R	Appendix IV	Arsenic	ug/L	11	5	45%	-0.212	0.011	↔	0.00025709	0.735	↔	2020-06-20	0.812	↔
14_2_103	MW-17001R	Appendix IV	Barium	ug/L	11	0	0%	0.12155	0.002	↑	0.093562	0.050	↔	2022-10-20	0.928	↔
14_2_104	MW-17001R	Appendix IV	Beryllium	ug/L	11	11	100%	0.00061838	0.048	↔	-0.0012547	0.330	↔	2023-10-04	0.493	↔
14_2_106	MW-17001R	Appendix IV	Cadmium	ug/L	11	11	100%	0.00061838	0.048	↔	-0.0012547	0.330	↔	2023-10-04	0.493	↔
14_2_109	MW-17001R	Appendix IV	Chromium	ug/L	11	7	64%	0.00062734	0.043	↔	-0.0012804	0.312	↔	2023-10-04	0.511	↔
14_2_110	MW-17001R	Appendix IV	Cobalt	ug/L	11	6	55%	0.001122	0.092	↔	-0.0018444	0.251	↔	2023-04-12	0.438	↔
14_2_114	MW-17001R	Appendix IV	Fluoride	ug/L	11	2	18%	-0.31579	0.807	↔	-0.0029999	0.844	↔	2020-10-27	0.536	↔
14_2_116	MW-17001R	Appendix IV	Lead	ug/L	11	11	100%	0.0011125	0.216	↔	-0.0027409	0.233	↔	2023-10-03	0.343	↔
14_2_117	MW-17001R	Appendix IV	Lithium	ug/L	11	0	0%	-0.17624	0.114	↔	0.096937	0.005	↑	2021-08-19	0.732	↔
14_2_119	MW-17001R	Appendix IV	Molybdenum	ug/L	11	6	55%	0.0029426	0.140	↔	-0.0070074	0.167	↔	2023-10-03	0.432	↔
14_2_125	MW-17001R	Appendix IV	Radium-226+228	pCi/L	11	0	0%	0.00082326	0.144	↔	-0.00058205	0.809	↔	2023-10-04	0.317	↔
14_2_127	MW-17001R	Appendix IV	Selenium	ug/L	11	11	100%	0.00092697	0.174	↔	-0.0023959	0.425	↔	2023-10-04	0.313	↔
14_2_131	MW-17001R	Appendix IV	Thallium	ug/L	11	11	100%	-0.0035023	0.555	↔	0.00032798	0.565	↔	2020-10-29	0.100	↔
15_2_101	MW-17002	Appendix IV	Antimony	ug/L	17	15	88%	-0.00085375	0.071	↔	< 0.0001	0.853	↔	2021-04-07	0.504	↔
15_2_102	MW-17002	Appendix IV	Arsenic	ug/L	18	0	0%	-0.061091	0.574	↔	0.063483	0.006	↑	2019-07-07	0.533	↔
15_2_103	MW-17002	Appendix IV	Barium	ug/L	18	0	0%	0.043194	0.177	↔	-0.078477	0.129	↔	2021-10-22	0.284	↔
15_2_104	MW-17002	Appendix IV	Beryllium	ug/L	17	16	94%	-0.00084724	0.106	↔	< 0.0001	0.671	↔	2020-07-23	0.435	↔
15_2_106	MW-17002	Appendix IV	Cadmium	ug/L	17	13	76%	0.00029839	0.012	↔	-0.0008875	0.382	↔	2023-10-02	0.419	↔
15_2_109	MW-17002	Appendix IV	Chromium	ug/L	18	11	61%	-0.000704	0.047	↔	0.00013333	0.583	↔	2020-11-17	0.404	↔
15_2_110	MW-17002	Appendix IV	Cobalt	ug/L	17	15	88%	-0.021943	0.000	↓	0.00033685	0.711	↔	2019-12-25	0.938	↔
15_2_114	MW-17002	Appendix IV	Fluoride	ug/L	18	8	44%	-0.76004	0.003	↓	-0.085794	0.413	↔	2020-10-28	0.835	↔
15_2_116	MW-17002	Appendix IV	Lead	ug/L	17	16	94%	0.00060132	0.052	↔	-0.0051693	0.439	↔	2024-03-29	0.343	↔
15_2_117	MW-17002	Appendix IV	Lithium	ug/L	18	0	0%	0.0075918	0.841	↔	0.080739	0.010	↔	2021-04-20	0.609	↔
15_2_119	MW-17002	Appendix IV	Molybdenum	ug/L	18	6	33%	0.75147	0.003	↑	-0.36931	0.631	↔	2023-04-11	0.623	↔
15_2_125	MW-17002	Appendix IV	Radium-226+228	pCi/L	18	3	17%	-0.0048268	0.176	↔	0.00016228	0.800	↔	2019-04-11	0.248	↔
15_2_127	MW-17002	Appendix IV	Selenium	ug/L	18	15	83%	< 0.0001	0.762	↔	-0.0018526	0.485	↔	2023-10-14	0.137	↔
15_2_131	MW-17002	Appendix IV	Thallium	ug/L	17	16	94%	-0.0012535	0.208	↔	< 0.0001	0.855	↔	2020-10-28	0.387	↔
16_2_101	MW-17003	Appendix IV	Antimony	ug/L	16	15	94%	-0.00075029	0.060	↔	< 0.0001	0.894	↔	2021-04-22	0.429	↔
16_2_102	MW-17003	Appendix IV	Arsenic	ug/L	17	2	12%	0.012613	0.206	↔	0.26601	0.000	↑	2023-05-31	0.904	↔
16_2_103	MW-17003	Appendix IV	Barium	ug/L	17	0	0%	0.082461	0.166	↔	-0.12443	0.010	↓	2021-04-21	0.483	↔
16_2_104	MW-17003	Appendix IV	Beryllium	ug/L	16	14	88%	-0.00085856	0.119	↔	< 0.0001	0.769	↔	2020-06-02	0.408	↔
16_2_106	MW-17003	Appendix IV	Cadmium	ug/L	16	15	94%	0.00029667	0.020	↔	-0.0011863	0.273	↔	2023-10-02	0.426	↔
16_2_109	MW-17003	Appendix IV	Chromium	ug/L	17	12	71%	-0.0007773	0.036	↔	0.00022683	0.368	↔	2020-11-18	0.419	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared	Overall Trend
16_2_110	MW-17003	Appendix IV	Cobalt	ug/L	16	11	69%	-0.0076245	0.000	↓	0.12867	0.000	↑	2024-01-19	0.938	↔
16_2_114	MW-17003	Appendix IV	Fluoride	ug/L	17	11	65%	-0.94244	0.000	↓	0.032532	0.805	↔	2021-02-10	0.864	↔
16_2_116	MW-17003	Appendix IV	Lead	ug/L	16	16	100%	-0.00035626	0.386	↔	0.0021911	0.000	↑	2021-10-21	0.793	↔
16_2_117	MW-17003	Appendix IV	Lithium	ug/L	17	0	0%	0.012422	0.011	↔	0.3603	0.000	↑	2022-12-07	0.994	↔
16_2_119	MW-17003	Appendix IV	Molybdenum	ug/L	17	4	24%	0.0024834	0.717	↔	0.14763	0.000	↑	2023-02-19	0.900	↔
16_2_125	MW-17003	Appendix IV	Radium-226+228	pCi/L	17	6	35%	-0.0018825	0.042	↔	< 0.0001	0.664	↔	2019-04-12	0.505	↔
16_2_127	MW-17003	Appendix IV	Selenium	ug/L	17	13	76%	-0.00075022	0.483	↔	< 0.0001	0.983	↔	2020-10-28	0.140	↔
16_2_131	MW-17003	Appendix IV	Thallium	ug/L	16	16	100%	-0.0014896	0.027	↔	0.00081771	0.077	↔	2021-04-01	0.533	↔
17_2_101	MW-17004	Appendix IV	Antimony	ug/L	17	14	82%	-0.00023034	0.229	↔	-0.0010449	0.562	↔	2023-10-06	0.333	↔
17_2_102	MW-17004	Appendix IV	Arsenic	ug/L	18	2	11%	0.0069021	0.004	↑	-0.012641	0.095	↔	2023-04-11	0.559	↔
17_2_103	MW-17004	Appendix IV	Barium	ug/L	18	0	0%	0.17157	0.044	↔	-0.22157	0.002	↓	2021-04-21	0.596	↔
17_2_104	MW-17004	Appendix IV	Beryllium	ug/L	17	17	100%	-0.00084586	0.100	↔	0.00012052	0.579	↔	2020-08-06	0.440	↔
17_2_106	MW-17004	Appendix IV	Cadmium	ug/L	17	16	94%	0.00030622	0.009	↑	-0.0010574	0.294	↔	2023-10-03	0.448	↔
17_2_109	MW-17004	Appendix IV	Chromium	ug/L	18	12	67%	0.0010455	0.379	↔	-0.0021321	0.266	↔	2022-05-02	0.134	↔
17_2_110	MW-17004	Appendix IV	Cobalt	ug/L	17	11	65%	-0.021845	0.000	↓	0.00019784	0.844	↔	2019-12-03	0.921	↔
17_2_114	MW-17004	Appendix IV	Fluoride	ug/L	18	13	72%	-0.83212	0.000	↓	0.016531	0.913	↔	2021-06-30	0.873	↔
17_2_116	MW-17004	Appendix IV	Lead	ug/L	17	14	82%	0.0037651	0.208	↔	-0.0056168	0.239	↔	2022-05-02	0.209	↔
17_2_117	MW-17004	Appendix IV	Lithium	ug/L	18	6	33%	-0.001023	0.896	↔	0.044222	0.000	↑	2021-04-22	0.861	↔
17_2_118	MW-17004	Appendix IV	Mercury	ug/L	17	17	100%	> -0.0001	0.020	↔	< 0.0001	0.183	↔	2020-12-23	0.496	↔
17_2_119	MW-17004	Appendix IV	Molybdenum	ug/L	18	7	39%	-0.0066809	0.531	↔	0.020717	0.001	↑	2020-06-21	0.705	↔
17_2_125	MW-17004	Appendix IV	Radium-226+228	pCi/L	18	6	33%	-0.0009559	0.815	↔	-0.00013123	0.779	↔	2019-04-11	0.048	↔
17_2_127	MW-17004	Appendix IV	Selenium	ug/L	18	14	78%	0.00028754	0.381	↔	-0.0030921	0.103	↔	2023-10-02	0.273	↔
17_2_131	MW-17004	Appendix IV	Thallium	ug/L	17	14	82%	-0.0013162	0.193	↔	0.00010582	0.807	↔	2020-10-28	0.397	↔
18_2_101	MW-17005	Appendix IV	Antimony	ug/L	17	17	100%	-0.00071498	0.061	↔	< 0.0001	0.898	↔	2021-04-22	0.416	↔
18_2_102	MW-17005	Appendix IV	Arsenic	ug/L	18	13	72%	-0.025	0.132	↔	> -0.0001	0.930	↔	2018-02-23	0.280	↔
18_2_103	MW-17005	Appendix IV	Barium	ug/L	18	0	0%	0.16622	0.357	↔	-0.094086	0.094	↔	2019-12-12	0.238	↔
18_2_104	MW-17005	Appendix IV	Beryllium	ug/L	17	16	94%	-0.00084586	0.113	↔	< 0.0001	0.736	↔	2020-07-14	0.430	↔
18_2_106	MW-17005	Appendix IV	Cadmium	ug/L	17	17	100%	0.0002874	0.017	↔	-0.00097374	0.353	↔	2023-10-03	0.395	↔
18_2_109	MW-17005	Appendix IV	Chromium	ug/L	18	11	61%	-0.00058893	0.092	↔	< 0.0001	0.832	↔	2021-01-24	0.388	↔
18_2_110	MW-17005	Appendix IV	Cobalt	ug/L	17	16	94%	-0.021845	0.000	↓	0.00034353	0.705	↔	2019-12-28	0.938	↔
18_2_114	MW-17005	Appendix IV	Fluoride	ug/L	18	14	78%	-0.92025	0.000	↓	0.041402	0.752	↔	2021-04-01	0.867	↔
18_2_116	MW-17005	Appendix IV	Lead	ug/L	17	16	94%	-0.00017786	0.876	↔	0.00014802	0.769	↔	2020-10-27	0.009	↔
18_2_117	MW-17005	Appendix IV	Lithium	ug/L	18	3	17%	-0.0028923	0.617	↔	0.016275	0.431	↔	2023-04-12	0.072	↔
18_2_119	MW-17005	Appendix IV	Molybdenum	ug/L	18	15	83%	-0.0041766	0.061	↔	0.0025465	0.112	↔	2021-03-03	0.372	↔
18_2_125	MW-17005	Appendix IV	Radium-226+228	pCi/L	18	5	28%	-0.0018508	0.429	↔	0.00024724	0.567	↔	2019-05-28	0.092	↔
18_2_127	MW-17005	Appendix IV	Selenium	ug/L	18	18	100%	-0.0004571	0.521	↔	0.0001815	0.727	↔	2020-10-28	0.047	↔
18_2_131	MW-17005	Appendix IV	Thallium	ug/L	17	17	100%	-0.0015052	0.018	↔	0.00012645	0.755	↔	2020-12-27	0.604	↔
19_2_101	MW-17006	Appendix IV	Antimony	ug/L	17	17	100%	-0.00068688	0.142	↔	< 0.0001	0.854	↔	2021-06-14	0.417	↔
19_2_102	MW-17006	Appendix IV	Arsenic	ug/L	18	7	39%	-0.0025231	0.027	↔	0.0022028	0.380	↔	2022-05-02	0.362	↔
19_2_103	MW-17006	Appendix IV	Barium	ug/L	18	0	0%	0.068105	0.012	↔	-0.049716	0.014	↔	2020-10-30	0.535	↔
19_2_104	MW-17006	Appendix IV	Beryllium	ug/L	17	17	100%	-0.00084586	0.100	↔	0.00011989	0.585	↔	2020-08-06	0.440	↔
19_2_106	MW-17006	Appendix IV	Cadmium	ug/L	17	17	100%	0.00028547	0.017	↔	-0.00096355	0.357	↔	2023-10-03	0.391	↔

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared	Overall Trend
19_2_109	MW-17006	Appendix IV	Chromium	ug/L	18	15	83%	-0.00072424	0.061	↔	< 0.0001	0.804	↔	2020-11-06	0.402	↔
19_2_110	MW-17006	Appendix IV	Cobalt	ug/L	17	16	94%	-0.021845	0.000	↓	0.00039155	0.669	↔	2019-12-31	0.938	↔
19_2_114	MW-17006	Appendix IV	Fluoride	ug/L	18	9	50%	-0.91355	0.000	↓	0.039465	0.768	↔	2021-03-03	0.859	↔
19_2_116	MW-17006	Appendix IV	Lead	ug/L	17	17	100%	-0.00021156	0.790	↔	0.00023705	0.682	↔	2020-10-30	0.022	↔
19_2_117	MW-17006	Appendix IV	Lithium	ug/L	18	0	0%	-0.0078891	0.065	↔	0.008661	0.699	↔	2023-04-13	0.261	↔
19_2_118	MW-17006	Appendix IV	Mercury	ug/L	17	16	94%	< 0.0001	1.000	↔	< 0.0001	0.494	↔	2020-04-01	0.070	↔
19_2_119	MW-17006	Appendix IV	Molybdenum	ug/L	18	13	72%	-0.00034043	0.644	↔	0.22404	0.000	↑	2024-09-14	0.972	↔
19_2_125	MW-17006	Appendix IV	Radium-226+228	pCi/L	18	6	33%	0.00044339	0.491	↔	-0.00013246	0.781	↔	2021-06-14	0.094	↔
19_2_127	MW-17006	Appendix IV	Selenium	ug/L	18	17	94%	-0.00042287	0.656	↔	< 0.0001	0.830	↔	2020-10-29	0.043	↔
19_2_131	MW-17006	Appendix IV	Thallium	ug/L	17	17	100%	-0.0015039	0.018	↔	0.00012147	0.769	↔	2020-12-26	0.603	↔

Table 10: Trend Tests: Piecewise Linear-Linear-Linear

								Line 1			Line 2			Line 3						
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared	Overall Trend
01_2_102	MW-15009	Appendix IV	Arsenic	ug/L	24	1	4%	-0.15237	0.003	↓	-0.016652	0.000	↓	0.011063	0.000	↑	2016-05-01	2020-03-20	0.887	↔
01_2_103	MW-15009	Appendix IV	Barium	ug/L	24	0	0%	-0.0018121	0.945	↔	0.12579	0.012	↔	-0.059008	0.215	↔	2019-08-03	2022-05-05	0.686	↔
01_2_110	MW-15009	Appendix IV	Cobalt	ug/L	23	21	91%	> -0.0001	1.000	↔	-0.031051	0.000	↓	0.00030656	0.580	↔	2018-05-06	2019-08-17	0.983	↔
01_2_119	MW-15009	Appendix IV	Molybdenum	ug/L	24	6	25%	-0.049704	0.000	↓	-0.0024035	0.379	↔	0.02133	0.027	↔	2019-01-30	2023-08-10	0.976	↔
01_2_127	MW-15009	Appendix IV	Selenium	ug/L	24	23	96%	0.002151	0.852	↔	-0.00028703	0.399	↔	0.00021497	0.635	↔	2016-04-17	2021-01-06	0.062	↔
01_2_131	MW-15009	Appendix IV	Thallium	ug/L	23	23	100%	< 0.0001	0.982	↔	-0.0025713	0.138	↔	0.00018799	0.510	↔	2019-04-02	2020-10-26	0.730	↔
02_2_103	MW-15010	Appendix IV	Barium	ug/L	25	0	0%	0.0099676	0.192	↔	0.20975	0.000	↑	-0.12341	0.009	↓	2021-09-19	2023-04-12	0.876	↔
02_2_110	MW-15010	Appendix IV	Cobalt	ug/L	24	20	83%	> -0.0001	1.000	↔	-0.031133	0.000	↓	0.00032092	0.551	↔	2018-05-07	2019-08-18	0.984	↔
02_2_116	MW-15010	Appendix IV	Lead	ug/L	24	24	100%	< 0.0001	0.953	↔	-0.00028724	0.723	↔	0.00025611	0.593	↔	2018-03-18	2020-10-27	0.026	↔
02_2_117	MW-15010	Appendix IV	Lithium	ug/L	25	0	0%	0.028669	0.002	↑	-0.030013	0.072	↔	0.012273	0.129	↔	2019-01-15	2021-07-03	0.512	↔
02_2_119	MW-15010	Appendix IV	Molybdenum	ug/L	25	11	44%	-0.05353	0.000	↓	-0.0072502	0.008	↓	0.0010571	0.544	↔	2017-01-20	2020-06-09	0.930	↔
02_2_125	MW-15010	Appendix IV	Radium-226+228	pCi/L	25	11	44%	0.00070919	0.316	↔	0.00016458	0.508	↔	-0.0017308	0.387	↔	2018-04-16	2023-10-16	0.303	↔
03_2_103	MW-15013	Appendix IV	Barium	ug/L	24	0	0%	-0.02247	0.261	↔	0.059344	0.000	↑	-0.33789	0.069	↔	2019-03-08	2024-09-22	0.752	↔
03_2_109	MW-15013	Appendix IV	Chromium	ug/L	24	19	79%	-0.00021217	0.558	↔	-0.0011991	0.309	↔	0.0010384	0.022	↔	2019-05-15	2021-07-02	0.437	↔
03_2_110	MW-15013	Appendix IV	Cobalt	ug/L	23	19	83%	< 0.0001	1.000	↔	-0.030839	0.000	↓	0.00022628	0.688	↔	2018-05-06	2019-08-19	0.983	↔
03_2_114	MW-15013	Appendix IV	Fluoride	ug/L	25	17	68%	< 0.0001	1.000	↔	-0.95717	0.000	↓	0.073576	0.448	↔	2019-03-21	2021-10-27	0.961	↔
03_2_116	MW-15013	Appendix IV	Lead	ug/L	23	22	96%	-0.0001221	0.674	↔	0.00048454	0.609	↔	0.015703	0.009	↑	2021-06-10	2024-10-02	0.617	↔
03_2_119	MW-15013	Appendix IV	Molybdenum	ug/L	24	5	21%	-0.027513	0.317	↔	0.028481	0.418	↔	-0.016708	0.047	↔	2018-01-12	2020-05-06	0.273	↔
03_2_131	MW-15013	Appendix IV	Thallium	ug/L	23	22	96%	-0.00082045	0.000	↓	0.0086857	0.010	↔	-0.0027135	0.006	↓	2022-10-08	2023-04-15	0.829	↔
04_2_104	MW-15014R	Appendix IV	Beryllium	ug/L	9	8	89%	0.0019638	0.079	↔	-0.0053672	0.089	↔	0.00081967	0.721	↔	2023-09-17	2024-05-18	0.852	↔
04_2_109	MW-15014R	Appendix IV	Chromium	ug/L	9	8	89%	0.0019638	0.079	↔	-0.0053672	0.089	↔	0.00098361	0.670	↔	2023-09-17	2024-04-29	0.838	↔
04_2_110	MW-15014R	Appendix IV	Cobalt	ug/L	9	8	89%	0.0042997	0.079	↔	-0.011751	0.089	↔	0.0021311	0.673	↔	2023-09-17	2024-05-27	0.854	↔
04_2_117	MW-15014R	Appendix IV	Lithium	ug/L	9	0	0%	-0.91989	0.489	↔	0.18076	0.533	↔	-0.079882	0.219	↔	2022-03-20	2023-04-10	0.577	↔
04_2_125	MW-15014R	Appendix IV	Radium-226+228	pCi/L	9	0	0%	-0.010364	0.164	↔	0.0034978	0.102	↔	-0.0025651	0.150	↔	2022-07-17	2023-12-27	0.821	↔
04_2_131	MW-15014R	Appendix IV	Thallium	ug/L	9	9	100%	-0.041081	0.174	↔	0.00447	0.172	↔	-0.0023413	0.196	↔	2022-03-20	2023-05-06	0.763	↔

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3						
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared	Overall Trend
05_2_102	MW-15015R	Appendix IV	Arsenic	ug/L	12	0	0%	-0.0037799	0.960	↔	0.018941	0.093	↔	0.071239	0.341	↔	2021-04-20	2024-05-22	0.823	↔
05_2_103	MW-15015R	Appendix IV	Barium	ug/L	12	0	0%	0.032717	0.441	↔	-0.12274	0.664	↔	-0.028757	0.818	↔	2022-10-19	2024-03-27	0.518	↔
05_2_109	MW-15015R	Appendix IV	Chromium	ug/L	12	10	83%	-0.00068556	0.443	↔	0.0027937	0.113	↔	-0.0014633	0.136	↔	2022-04-21	2023-05-06	0.555	↔
05_2_114	MW-15015R	Appendix IV	Fluoride	ug/L	12	6	50%	0.54358	0.116	↔	-0.089473	0.212	↔	0.19632	0.061	↔	2020-12-21	2023-07-02	0.746	↔
05_2_117	MW-15015R	Appendix IV	Lithium	ug/L	12	0	0%	0.0056123	0.931	↔	0.11556	0.629	↔	-0.038595	0.429	↔	2022-01-23	2023-04-10	0.513	↔
05_2_119	MW-15015R	Appendix IV	Molybdenum	ug/L	12	0	0%	-0.35441	0.709	↔	0.85085	0.362	↔	-0.15461	0.231	↔	2021-03-14	2022-05-03	0.633	↔
05_2_125	MW-15015R	Appendix IV	Radium-226+228	pCi/L	12	2	17%	-0.0032276	0.143	↔	0.0036688	0.114	↔	-0.0017197	0.093	↔	2021-08-10	2022-12-13	0.631	↔
05_2_127	MW-15015R	Appendix IV	Selenium	ug/L	12	7	58%	-0.001023	0.472	↔	0.0041205	0.139	↔	-0.0034704	0.044	↔	2021-12-28	2023-05-03	0.702	↔
06_2_102	MW-15016R	Appendix IV	Arsenic	ug/L	12	1	8%	-0.037052	0.035	↔	0.00050091	0.788	↔	0.0021858	0.871	↔	2020-11-14	2024-10-13	0.761	↔
06_2_103	MW-15016R	Appendix IV	Barium	ug/L	12	0	0%	0.58609	0.535	↔	0.37032	0.213	↔	-0.3071	0.147	↔	2020-10-29	2023-03-08	0.731	↔
06_2_110	MW-15016R	Appendix IV	Cobalt	ug/L	12	1	8%	-0.001861	0.190	↔	0.0026528	0.586	↔	-0.0014757	0.164	↔	2022-01-20	2023-04-11	0.470	↔
06_2_114	MW-15016R	Appendix IV	Fluoride	ug/L	12	9	75%	-0.96656	0.719	↔	0.057508	0.193	↔	-0.46036	0.236	↔	2020-07-14	2024-10-10	0.402	↔
06_2_117	MW-15016R	Appendix IV	Lithium	ug/L	12	3	25%	-0.021819	0.756	↔	0.1518	0.257	↔	-0.095733	0.212	↔	2022-02-15	2023-04-12	0.471	↔
06_2_119	MW-15016R	Appendix IV	Molybdenum	ug/L	12	8	67%	-0.0093722	0.106	↔	0.014647	0.151	↔	-0.0081405	0.157	↔	2022-02-08	2023-05-07	0.608	↔
06_2_125	MW-15016R	Appendix IV	Radium-226+228	pCi/L	12	0	0%	-0.004741	0.561	↔	0.0035782	0.030	↔	-0.0037429	0.312	↔	2021-04-20	2023-11-22	0.646	↔
06_2_131	MW-15016R	Appendix IV	Thallium	ug/L	12	12	100%	-0.0012638	0.272	↔	0.0044527	0.056	↔	-0.0023365	0.071	↔	2022-04-10	2023-05-07	0.675	↔
07_2_102	MW-15017	Appendix IV	Arsenic	ug/L	24	1	4%	-0.04179	0.240	↔	-0.009416	0.077	↔	> -0.0001	0.991	↔	2016-02-27	2018-03-14	0.766	↔
07_2_103	MW-15017	Appendix IV	Barium	ug/L	24	0	0%	-0.28543	0.068	↔	0.13138	0.001	↑	-0.26432	0.029	↔	2017-07-11	2023-04-11	0.630	↔
07_2_109	MW-15017	Appendix IV	Chromium	ug/L	24	1	4%	0.024633	0.001	↑	-0.0287	0.002	↓	-0.0011951	0.001	↓	2016-09-28	2017-05-08	0.867	↔
07_2_110	MW-15017	Appendix IV	Cobalt	ug/L	23	13	57%	< 0.0001	1.000	↔	-0.030759	0.000	↓	-0.00020865	0.661	↔	2018-05-05	2019-07-25	0.987	↔
07_2_116	MW-15017	Appendix IV	Lead	ug/L	23	23	100%	-0.00011647	0.719	↔	0.0012034	0.189	↔	-0.0034503	0.163	↔	2020-11-26	2023-10-02	0.328	↔
07_2_125	MW-15017	Appendix IV	Radium-226+228	pCi/L	24	0	0%	> -0.0001	0.992	↔	-0.002096	0.671	↔	0.00098697	0.151	↔	2020-10-29	2022-04-21	0.290	↔
07_2_127	MW-15017	Appendix IV	Selenium	ug/L	24	12	50%	0.0049193	0.533	↔	-0.0031997	0.040	↔	0.00029462	0.621	↔	2016-07-13	2019-09-11	0.570	↔
08_2_102	MW-15018	Appendix IV	Arsenic	ug/L	24	14	58%	-0.00047686	0.413	↔	0.0013694	0.312	↔	-0.0011167	0.185	↔	2019-06-15	2021-10-22	0.193	↔
08_2_109	MW-15018	Appendix IV	Chromium	ug/L	24	10	42%	-0.00022161	0.242	↔	0.00020273	0.584	↔	-0.0011518	0.365	↔	2020-06-27	2023-11-20	0.224	↔
08_2_110	MW-15018	Appendix IV	Cobalt	ug/L	23	19	83%	< 0.0001	1.000	↔	-0.030759	0.000	↓	0.00023495	0.669	↔	2018-05-05	2019-08-17	0.983	↔
08_2_117	MW-15018	Appendix IV	Lithium	ug/L	24	0	0%	-0.039997	0.149	↔	0.040927	0.069	↔	-0.0041341	0.006	↓	2016-09-06	2017-08-08	0.467	↔
08_2_125	MW-15018	Appendix IV	Radium-226+228	pCi/L	24	4	17%	0.00091691	0.085	↔	-0.00044279	0.002	↓	0.0016402	0.120	↔	2018-02-23	2024-02-23	0.535	↔
09_2_102	MW-15019	Appendix IV	Arsenic	ug/L	24	15	62%	-0.00067357	0.581	↔	0.0026455	0.155	↔	-0.0034629	0.028	↔	2019-03-14	2022-05-02	0.358	↔
09_2_103	MW-15019	Appendix IV	Barium	ug/L	24	0	0%	0.039992	0.579	↔	0.36921	0.427	↔	-0.064793	0.510	↔	2020-02-01	2021-10-20	0.549	↔
09_2_110	MW-15019	Appendix IV	Cobalt	ug/L	23	13	57%	> -0.0001	1.000	↔	-0.030679	0.000	↓	> -0.0001	0.917	↔	2018-05-05	2019-08-02	0.986	↔
09_2_116	MW-15019	Appendix IV	Lead	ug/L	23	19	83%	-0.00011071	0.820	↔	0.00065251	0.357	↔	-0.0032039	0.052	↔	2020-05-04	2023-10-02	0.278	↔
09_2_117	MW-15019	Appendix IV	Lithium	ug/L	24	3	12%	0.00062737	0.917	↔	-0.02015	0.427	↔	-0.0027879	0.512	↔	2018-11-30	2020-10-28	0.622	↔
09_2_125	MW-15019	Appendix IV	Radium-226+228	pCi/L	24	5	21%	> -0.0001	0.909	↔	0.002731	0.648	↔	-0.00061135	0.337	↔	2020-06-15	2021-10-20	0.342	↔
10_2_103	MW-15020	Appendix IV	Barium	ug/L	24	0	0%	0.013675	0.908	↔	0.31892	0.006	↑	-0.11151	0.011	↔	2017-10-17	2020-05-05	0.771	↔
10_2_109	MW-15020	Appendix IV	Chromium	ug/L	24	13	54%	0.0053144	0.375	↔	-0.0019076	0.488	↔	-0.00018671	0.029	↔	2016-02-26	2016-11-11	0.487	↔
10_2_110	MW-15020	Appendix IV	Cobalt	ug/L	23	19	83%	< 0.0001	1.000	↔	-0.030679	0.000	↓	< 0.0001	0.860	↔	2018-05-05	2019-08-14	0.983	↔
10_2_117	MW-15020	Appendix IV	Lithium	ug/L	24	4	17%	0.0019988	0.476	↔	-0.016348	0.002	↓	0.004051	0.043	↔	2018-11-29	2021-01-28	0.783	↔
10_2_127	MW-15020	Appendix IV	Selenium	ug/L	24	21	88%	0.00013512	0.907	↔	-0.00037585	0.620	↔	0.00020076	0.661	↔	2017-07-13	2020-10-28	0.059	↔
10_2_131	MW-15020	Appendix IV	Thallium	ug/L	23	23	100%	< 0.0001	0.989	↔	-0.0025909	0.140	↔	0.00019072	0.504	↔	2019-04-07	2020-10-27	0.730	↔
11_2_102	MW-15021	Appendix IV	Arsenic	ug/L	24	6	25%	-0.00085348	0.010	↔	0.0017391	0.098	↔	-0.0012952	0.186	↔	2020-10-22	2023-04-12	0.453	↔
11_2_103	MW-15021	Appendix IV	Barium	ug/L	24	0	0%	-0.0090817	0.642	↔	0.18325	0.000	↑	-0.079289	0.144	↔	2020-01-08	2023-01-26	0.882	↔

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3						
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared	Overall Trend
11_2_109	MW-15021	Appendix IV	Chromium	ug/L	24	6	25%	0.01164	0.047	↔	-0.001196	0.008	↓	> -0.0001	0.888	↔	2016-02-26	2018-07-10	0.649	↔
11_2_110	MW-15021	Appendix IV	Cobalt	ug/L	23	14	61%	> -0.0001	1.000	↔	-0.030679	0.000	↓	0.00025767	0.591	↔	2018-05-05	2019-08-15	0.987	↔
11_2_117	MW-15021	Appendix IV	Lithium	ug/L	24	18	75%	< 0.0001	1.000	↔	-0.01091	0.316	↔	0.00011116	0.951	↔	2019-02-14	2020-07-10	0.520	↔
11_2_118	MW-15021	Appendix IV	Mercury	ug/L	23	22	96%	> -0.0001	0.659	↔	0.00010276	0.127	↔	-0.00031789	0.454	↔	2018-11-01	2023-10-03	0.223	↔
11_2_125	MW-15021	Appendix IV	Radium-226+228	pCi/L	24	3	12%	< 0.0001	0.857	↔	0.00095401	0.346	↔	-0.0030882	0.241	↔	2020-11-18	2023-11-27	0.253	↔
11_2_127	MW-15021	Appendix IV	Selenium	ug/L	24	15	62%	0.0070976	0.186	↔	-0.0047728	0.458	↔	> -0.0001	0.770	↔	2016-07-13	2017-06-09	0.290	↔
11_2_131	MW-15021	Appendix IV	Thallium	ug/L	23	23	100%	< 0.0001	0.995	↔	-0.0025896	0.140	↔	0.00019008	0.511	↔	2019-04-10	2020-10-29	0.729	↔
12_2_101	MW-15022	Appendix IV	Antimony	ug/L	24	23	96%	0.00050393	0.264	↔	-0.00089369	0.074	↔	0.00010819	0.658	↔	2018-04-18	2021-04-05	0.552	↔
12_2_102	MW-15022	Appendix IV	Arsenic	ug/L	25	10	40%	0.01454	0.238	↔	-0.0088476	0.036	↔	-0.00029903	0.398	↔	2016-04-16	2018-04-17	0.857	↔
12_2_103	MW-15022	Appendix IV	Barium	ug/L	25	0	0%	-0.00046357	0.996	↔	0.094432	0.409	↔	0.0058772	0.821	↔	2018-04-13	2020-01-17	0.352	↔
12_2_109	MW-15022	Appendix IV	Chromium	ug/L	25	17	68%	-0.0004699	0.000	↓	0.0040609	0.019	↔	-0.0014212	0.043	↔	2022-08-06	2023-04-12	0.698	↔
12_2_110	MW-15022	Appendix IV	Cobalt	ug/L	24	19	79%	> -0.0001	1.000	↔	-0.030454	0.000	↓	< 0.0001	0.908	↔	2018-05-02	2019-08-20	0.987	↔
12_2_114	MW-15022	Appendix IV	Fluoride	ug/L	26	19	73%	> -0.0001	1.000	↔	-1.1442	0.000	↓	0.026791	0.623	↔	2019-05-31	2021-07-20	0.981	↔
12_2_116	MW-15022	Appendix IV	Lead	ug/L	24	24	100%	< 0.0001	0.955	↔	-0.00028743	0.722	↔	0.00025615	0.592	↔	2018-03-27	2020-10-28	0.026	↔
12_2_117	MW-15022	Appendix IV	Lithium	ug/L	25	8	32%	0.010333	0.051	↔	-0.017931	0.781	↔	0.032217	0.000	↑	2020-03-23	2021-04-20	0.837	↔
12_2_119	MW-15022	Appendix IV	Molybdenum	ug/L	25	12	48%	-0.0002613	0.978	↔	-0.015239	0.217	↔	0.0024851	0.740	↔	2018-11-26	2021-09-10	0.413	↔
12_2_125	MW-15022	Appendix IV	Radium-226+228	pCi/L	25	11	44%	0.0009587	0.014	↔	-0.0024371	0.298	↔	0.00023422	0.619	↔	2020-05-04	2021-10-01	0.388	↔
12_2_131	MW-15022	Appendix IV	Thallium	ug/L	24	24	100%	< 0.0001	0.989	↔	-0.0026595	0.027	↔	0.000201	0.533	↔	2019-04-10	2020-10-28	0.743	↔
13_2_102	MW-15023	Appendix IV	Arsenic	ug/L	24	8	33%	-0.00068251	0.114	↔	0.0099111	0.007	↑	0.089494	0.000	↑	2022-08-18	2024-09-21	0.960	↔
13_2_103	MW-15023	Appendix IV	Barium	ug/L	24	0	0%	0.046983	0.001	↑	-0.028649	0.017	↔	0.4371	0.000	↑	2019-04-12	2023-11-25	0.934	↔
13_2_110	MW-15023	Appendix IV	Cobalt	ug/L	23	21	91%	> -0.0001	1.000	↔	-0.030552	0.000	↓	0.00032229	0.561	↔	2018-05-04	2019-08-23	0.983	↔
13_2_117	MW-15023	Appendix IV	Lithium	ug/L	24	5	21%	0.011007	0.018	↔	-0.0077968	0.016	↔	0.099029	0.000	↑	2019-04-11	2023-10-25	0.888	↔
13_2_119	MW-15023	Appendix IV	Molybdenum	ug/L	24	4	17%	-0.00064021	0.902	↔	0.0078972	0.081	↔	-0.024004	0.666	↔	2019-04-28	2024-09-21	0.412	↔
13_2_125	MW-15023	Appendix IV	Radium-226+228	pCi/L	24	9	38%	0.0015027	0.060	↔	-0.00063152	0.005	↓	0.0046256	0.000	↑	2018-01-04	2023-08-27	0.735	↔
13_2_131	MW-15023	Appendix IV	Thallium	ug/L	23	23	100%	< 0.0001	0.989	↔	-0.0025814	0.140	↔	0.00019104	0.504	↔	2019-04-07	2020-10-29	0.730	↔
14_2_102	MW-17001R	Appendix IV	Arsenic	ug/L	11	5	45%	-0.21244	0.012	↔	0.0016539	0.167	↔	-0.0036035	0.352	↔	2020-06-24	2023-10-04	0.894	↔
14_2_110	MW-17001R	Appendix IV	Cobalt	ug/L	11	6	55%	> -0.0001	0.969	↔	0.0034173	0.535	↔	-0.0024551	0.079	↔	2022-03-18	2023-04-11	0.585	↔
14_2_117	MW-17001R	Appendix IV	Lithium	ug/L	11	0	0%	-0.17624	0.122	↔	0.052519	0.297	↔	0.2046	0.075	↔	2021-06-05	2024-02-04	0.819	↔
14_2_131	MW-17001R	Appendix IV	Thallium	ug/L	11	11	100%	-0.0012638	0.315	↔	0.0044527	0.081	↔	-0.0022354	0.124	↔	2022-04-10	2023-05-08	0.670	↔
15_2_101	MW-17002	Appendix IV	Antimony	ug/L	17	15	88%	-0.00088824	0.004	↓	0.0027829	0.100	↔	-0.0013994	0.138	↔	2022-04-15	2023-04-24	0.688	↔
15_2_102	MW-17002	Appendix IV	Arsenic	ug/L	18	0	0%	-0.012377	0.663	↔	0.24513	0.017	↔	-0.082435	0.337	↔	2021-09-17	2023-04-12	0.726	↔
15_2_103	MW-17002	Appendix IV	Barium	ug/L	18	0	0%	-0.017779	0.836	↔	0.13237	0.506	↔	-0.097622	0.034	↔	2020-03-26	2021-10-20	0.354	↔
15_2_109	MW-17002	Appendix IV	Chromium	ug/L	18	11	61%	-0.00067836	0.001	↓	0.0025486	0.029	↔	-0.0012767	0.048	↔	2022-03-22	2023-05-01	0.716	↔
15_2_110	MW-17002	Appendix IV	Cobalt	ug/L	17	15	88%	-0.021573	0.000	↓	0.0015197	0.335	↔	-0.0030876	0.633	↔	2020-02-05	2023-10-02	0.944	↔
15_2_116	MW-17002	Appendix IV	Lead	ug/L	17	16	94%	-0.00028857	0.730	↔	0.0017611	0.137	↔	-0.0059174	0.070	↔	2021-01-28	2024-02-02	0.463	↔
15_2_125	MW-17002	Appendix IV	Radium-226+228	pCi/L	18	3	17%	-0.0045218	0.091	↔	0.0029204	0.423	↔	-0.00090952	0.544	↔	2019-12-13	2021-10-22	0.323	↔
15_2_131	MW-17002	Appendix IV	Thallium	ug/L	17	16	94%	-0.00098685	0.009	↓	0.0043846	0.081	↔	-0.0039947	0.074	↔	2022-09-03	2023-10-20	0.657	↔
16_2_103	MW-17003	Appendix IV	Barium	ug/L	17	0	0%	0.11248	0.019	↔	-0.50515	0.207	↔	-0.0046965	0.946	↔	2021-08-20	2022-07-31	0.649	↔
16_2_104	MW-17003	Appendix IV	Beryllium	ug/L	16	14	88%	-0.00061705	0.001	↓	0.0054598	0.013	↔	-0.0016691	0.010	↓	2022-09-03	2023-04-12	0.821	↔
16_2_109	MW-17003	Appendix IV	Chromium	ug/L	17	12	71%	-0.00069339	0.003	↓	0.0027829	0.031	↔	-0.00099416	0.146	↔	2022-04-09	2023-04-14	0.686	↔
16_2_110	MW-17003	Appendix IV	Cobalt	ug/L	16	11	69%	-0.018992	0.001	↓	0.00094042	0.753	↔	0.12867	0.000	↑	2020-05-09	2024-02-29	0.978	↔
16_2_117	MW-17003	Appendix IV	Lithium	ug/L	17	0	0%	-0.0063239	0.792	↔	0.019405	0.055	↔	0.3603	0.000	↑	2019-05-22	2022-12-17	0.995	↔

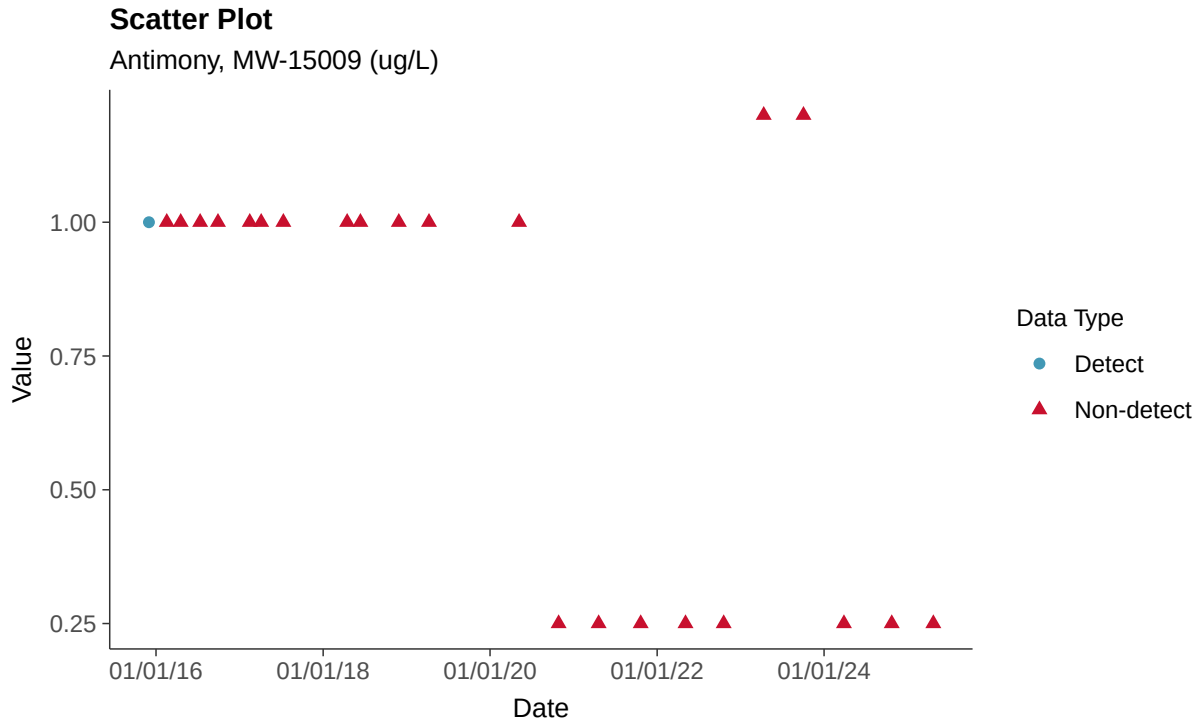
(Table continues on next page)

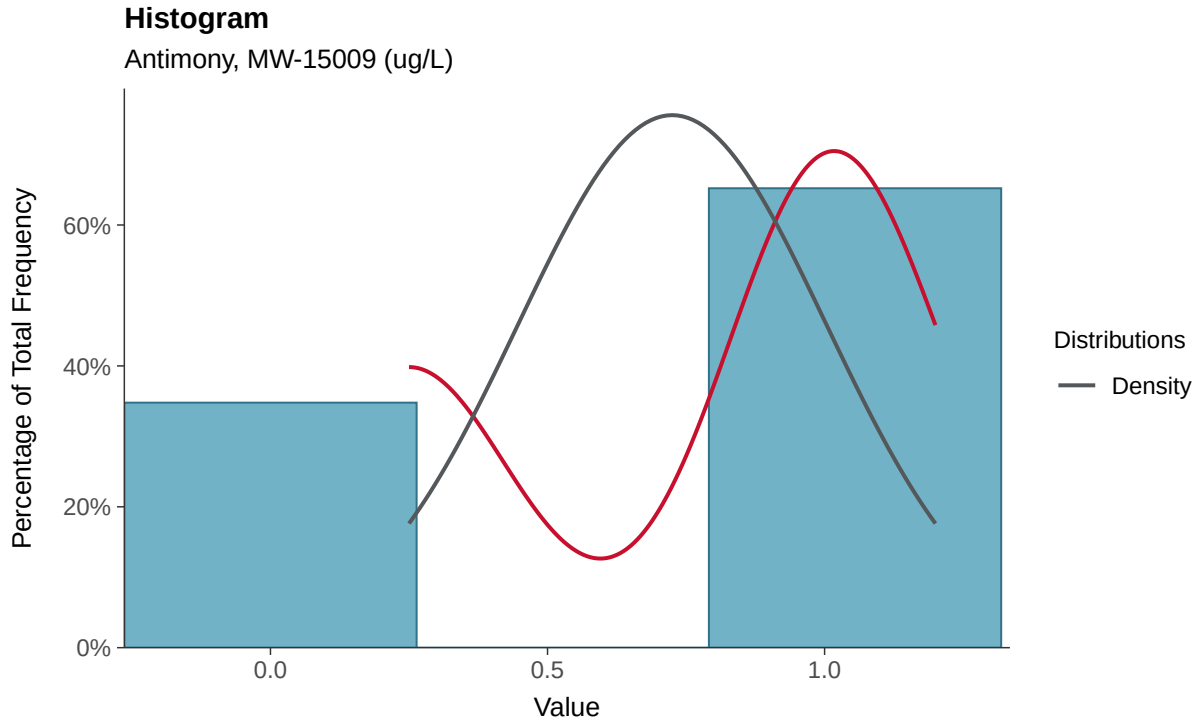
Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3						
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared	Overall Trend
16_2_119	MW-17003	Appendix IV	Molybdenum	ug/L	17	4	24%	-0.56665	0.003	↓	0.012998	0.018	↔	0.1476	0.000	↑	2018-03-02	2023-04-11	0.972	↔
16_2_125	MW-17003	Appendix IV	Radium-226+228	pCi/L	17	6	35%	-0.0017359	0.346	↔	> -0.0001	0.882	↔	0.00034349	0.669	↔	2019-04-11	2023-04-22	0.521	↔
16_2_131	MW-17003	Appendix IV	Thallium	ug/L	16	16	100%	-0.0014169	0.000	↓	0.0026286	0.002	↑	-0.0083516	0.010	↔	2022-01-15	2024-08-05	0.872	↔
17_2_101	MW-17004	Appendix IV	Antimony	ug/L	17	14	82%	-0.00076187	0.055	↔	0.0010983	0.352	↔	-0.0016158	0.153	↔	2021-07-19	2023-06-01	0.517	↔
17_2_102	MW-17004	Appendix IV	Arsenic	ug/L	18	2	11%	0.00039803	0.868	↔	0.052332	0.034	↔	-0.012957	0.006	↓	2021-07-24	2022-05-07	0.808	↔
17_2_103	MW-17004	Appendix IV	Barium	ug/L	18	0	0%	0.21207	0.004	↑	-0.39547	0.215	↔	-0.061709	0.646	↔	2021-04-22	2023-01-24	0.671	↔
17_2_104	MW-17004	Appendix IV	Beryllium	ug/L	17	17	100%	-0.00070975	0.001	↓	0.0027722	0.018	↔	-0.0014636	0.025	↔	2022-03-30	2023-05-08	0.771	↔
17_2_106	MW-17004	Appendix IV	Cadmium	ug/L	17	16	94%	< 0.0001	0.778	↔	0.0020773	0.040	↔	-0.0014636	0.015	↔	2022-04-16	2023-05-24	0.694	↔
17_2_109	MW-17004	Appendix IV	Chromium	ug/L	18	12	67%	-0.0013846	0.388	↔	0.0086812	0.173	↔	-0.0039801	0.079	↔	2021-02-12	2022-05-03	0.397	↔
17_2_110	MW-17004	Appendix IV	Cobalt	ug/L	17	11	65%	-0.021845	0.000	↓	0.0035737	0.150	↔	-0.0035833	0.250	↔	2020-02-17	2022-11-30	0.941	↔
17_2_114	MW-17004	Appendix IV	Fluoride	ug/L	18	13	72%	-0.89033	0.003	↓	-0.28946	0.537	↔	0.039117	0.875	↔	2020-10-28	2022-06-07	0.876	↔
17_2_116	MW-17004	Appendix IV	Lead	ug/L	17	14	82%	-0.002965	0.622	↔	0.013784	0.429	↔	-0.0086342	0.077	↔	2020-07-04	2022-05-02	0.364	↔
17_2_117	MW-17004	Appendix IV	Lithium	ug/L	18	6	33%	-0.0045651	0.639	↔	0.05489	0.001	↑	0.011938	0.741	↔	2021-04-13	2023-12-14	0.880	↔
17_2_119	MW-17004	Appendix IV	Molybdenum	ug/L	18	7	39%	-0.0066809	0.533	↔	0.026449	0.003	↑	-0.038462	0.560	↔	2020-10-03	2024-08-24	0.747	↔
17_2_125	MW-17004	Appendix IV	Radium-226+228	pCi/L	18	6	33%	0.00036236	0.705	↔	-0.0011858	0.589	↔	0.00069246	0.875	↔	2021-04-22	2023-10-31	0.092	↔
17_2_127	MW-17004	Appendix IV	Selenium	ug/L	18	14	78%	-0.00055439	0.341	↔	0.0022616	0.230	↔	-0.0036067	0.051	↔	2021-05-31	2023-05-28	0.450	↔
17_2_131	MW-17004	Appendix IV	Thallium	ug/L	17	14	82%	-0.001531	0.002	↓	0.0018007	0.062	↔	-0.0046398	0.022	↔	2021-05-27	2023-12-29	0.754	↔
18_2_102	MW-17005	Appendix IV	Arsenic	ug/L	18	13	72%	-0.0016604	0.109	↔	0.0017605	0.107	↔	-0.0039693	0.046	↔	2020-09-19	2023-09-19	0.491	↔
18_2_103	MW-17005	Appendix IV	Barium	ug/L	18	0	0%	0.20228	0.251	↔	-0.25299	0.068	↔	0.08955	0.590	↔	2020-05-04	2022-11-21	0.398	↔
18_2_104	MW-17005	Appendix IV	Beryllium	ug/L	17	16	94%	-0.00071045	0.001	↓	0.0027667	0.021	↔	-0.0015747	0.022	↔	2022-03-30	2023-05-08	0.766	↔
18_2_109	MW-17005	Appendix IV	Chromium	ug/L	18	11	61%	-0.00064003	0.002	↓	0.0021033	0.068	↔	-0.0014257	0.034	↔	2022-03-03	2023-05-25	0.696	↔
18_2_110	MW-17005	Appendix IV	Cobalt	ug/L	17	16	94%	< 0.0001	1.000	↔	-0.03535	0.001	↓	0.00034353	0.656	↔	2018-06-19	2019-08-03	0.963	↔
18_2_117	MW-17005	Appendix IV	Lithium	ug/L	18	3	17%	0.025594	0.065	↔	-0.048673	0.243	↔	0.017938	0.111	↔	2020-05-05	2021-12-14	0.433	↔
18_2_125	MW-17005	Appendix IV	Radium-226+228	pCi/L	18	5	28%	-0.0015909	0.194	↔	0.0016234	0.329	↔	-0.0011131	0.488	↔	2020-05-15	2022-10-20	0.223	↔
19_2_102	MW-17006	Appendix IV	Arsenic	ug/L	18	7	39%	0.0025843	0.348	↔	-0.028371	0.035	↔	0.0020489	0.085	↔	2020-05-02	2020-11-27	0.646	↔
19_2_103	MW-17006	Appendix IV	Barium	ug/L	18	0	0%	0.093579	0.000	↑	-0.15797	0.070	↔	0.017499	0.472	↔	2020-12-21	2022-08-22	0.781	↔
19_2_104	MW-17006	Appendix IV	Beryllium	ug/L	17	17	100%	-0.00085291	0.009	↓	0.0011336	0.045	↔	-0.0014603	0.041	↔	2021-06-07	2023-08-14	0.714	↔
19_2_110	MW-17006	Appendix IV	Cobalt	ug/L	17	16	94%	-0.021947	0.000	↓	0.0015275	0.427	↔	-0.0030081	0.475	↔	2020-01-27	2023-10-02	0.944	↔
19_2_118	MW-17006	Appendix IV	Mercury	ug/L	17	16	94%	> -0.0001	0.702	↔	-0.0028604	0.147	↔	-0.0010396	0.065	↔	2023-07-27	2022-08-16	0.446	↔
19_2_119	MW-17006	Appendix IV	Molybdenum	ug/L	18	13	72%	-0.00343	0.000	↓	0.0087459	0.001	↑	0.22404	0.000	↑	2022-02-10	2024-10-09	0.994	↔
19_2_127	MW-17006	Appendix IV	Selenium	ug/L	18	17	94%	-0.00065583	0.380	↔	0.00058968	0.482	↔	-0.0041775	0.479	↔	2020-10-30	2024-07-07	0.176	↔

Appendix IV: Antimony, MW-15009

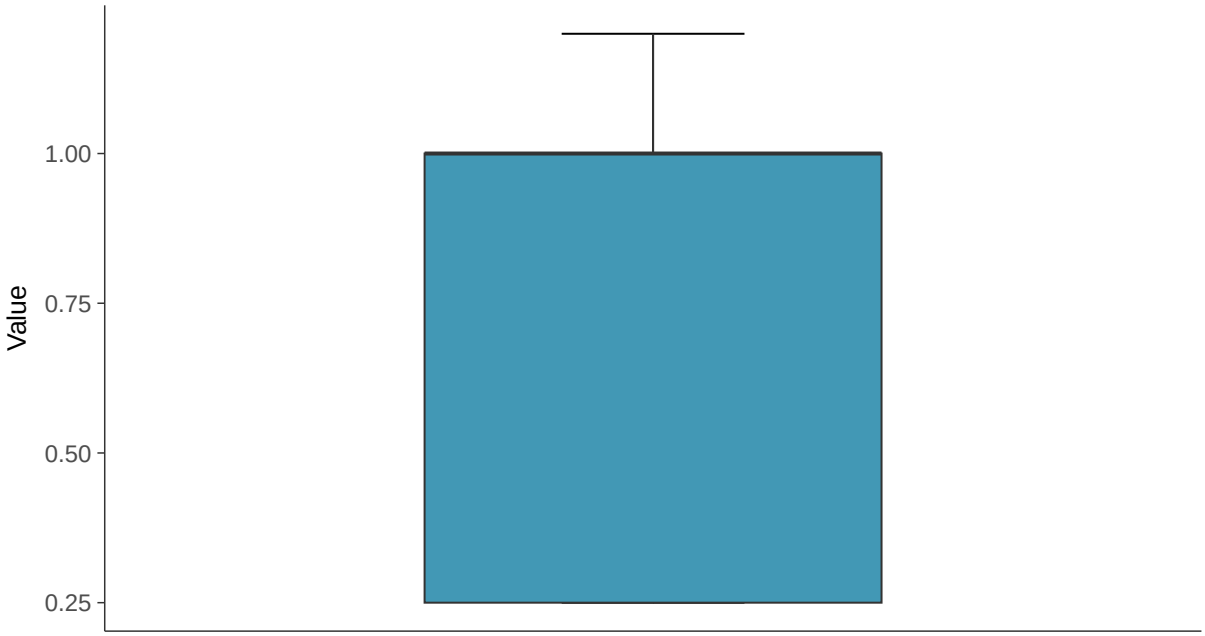
ID: 01_2_101





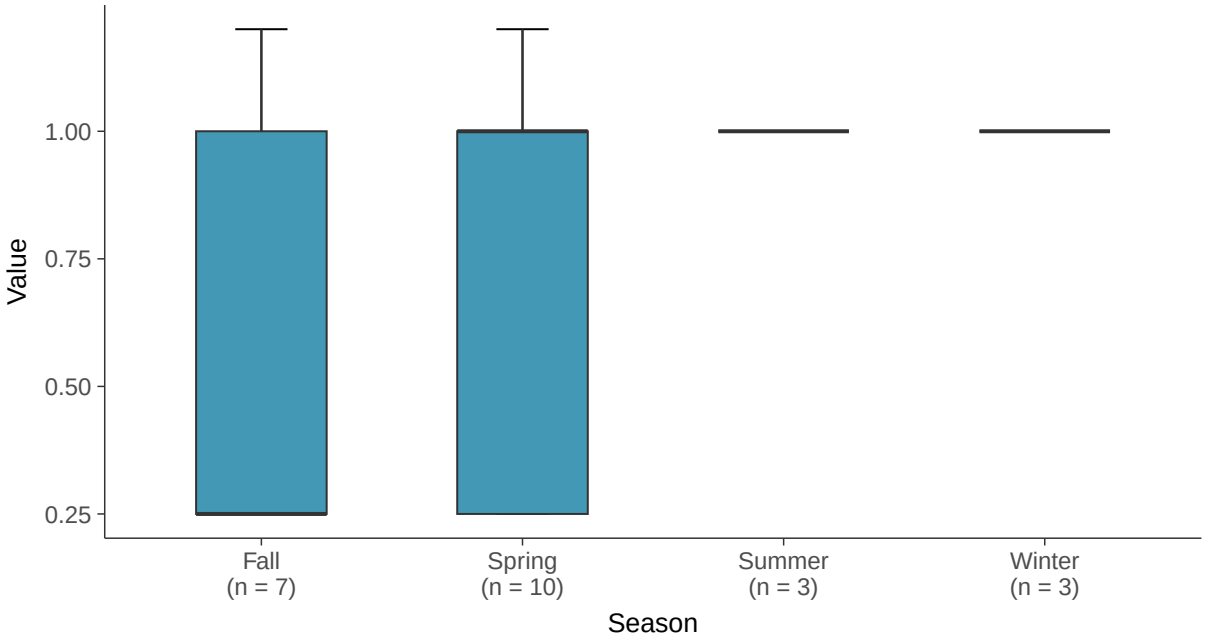
Boxplot

Antimony, MW-15009 (ug/L)



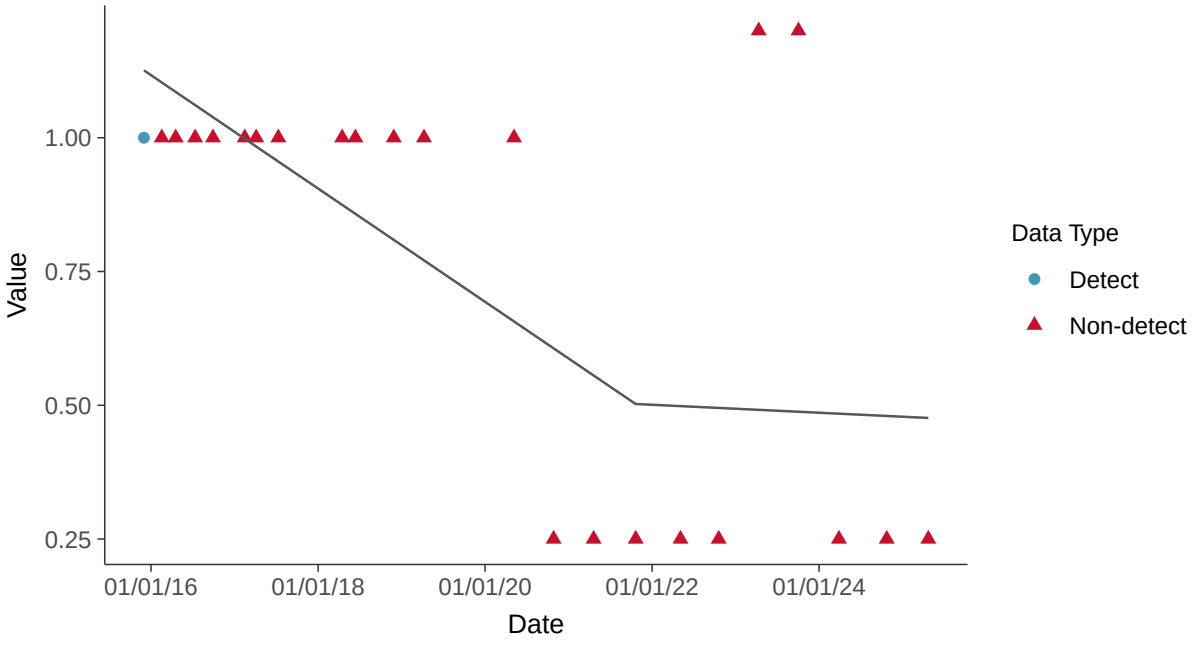
Boxplot by Season

Antimony, MW-15009 (ug/L)



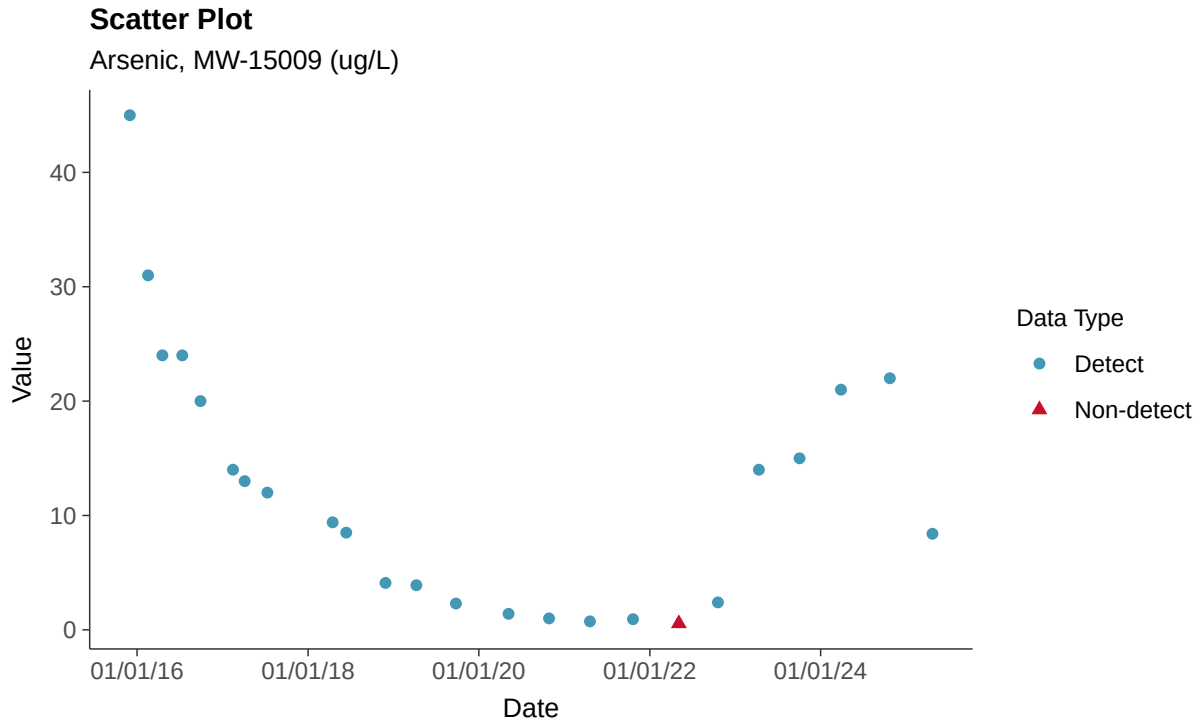
Trend Regression: Piecewise Linear-Linear

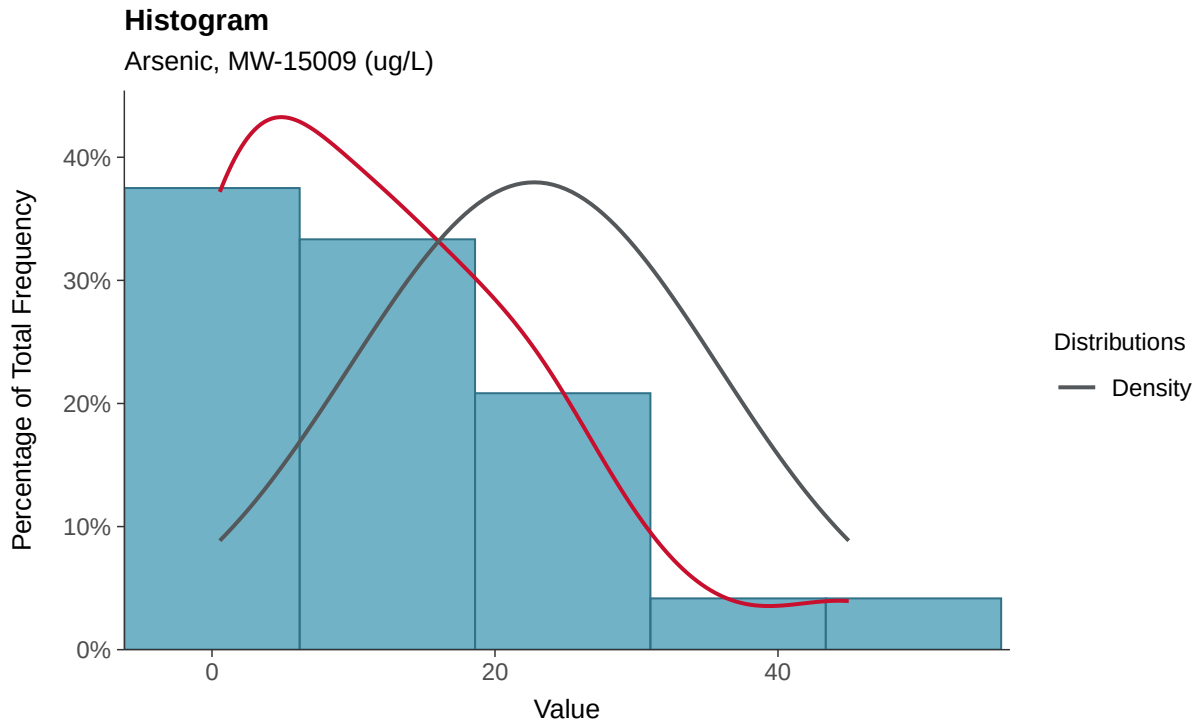
Antimony, MW-15009 (ug/L)



Appendix IV: Arsenic, MW-15009

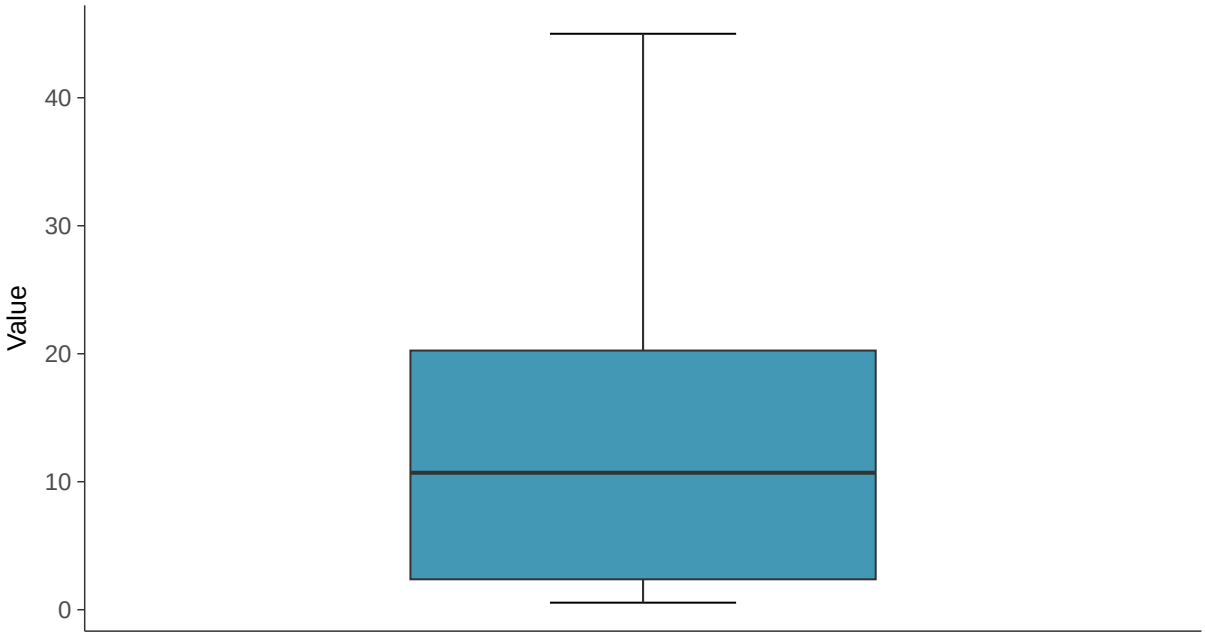
ID: 01_2_102





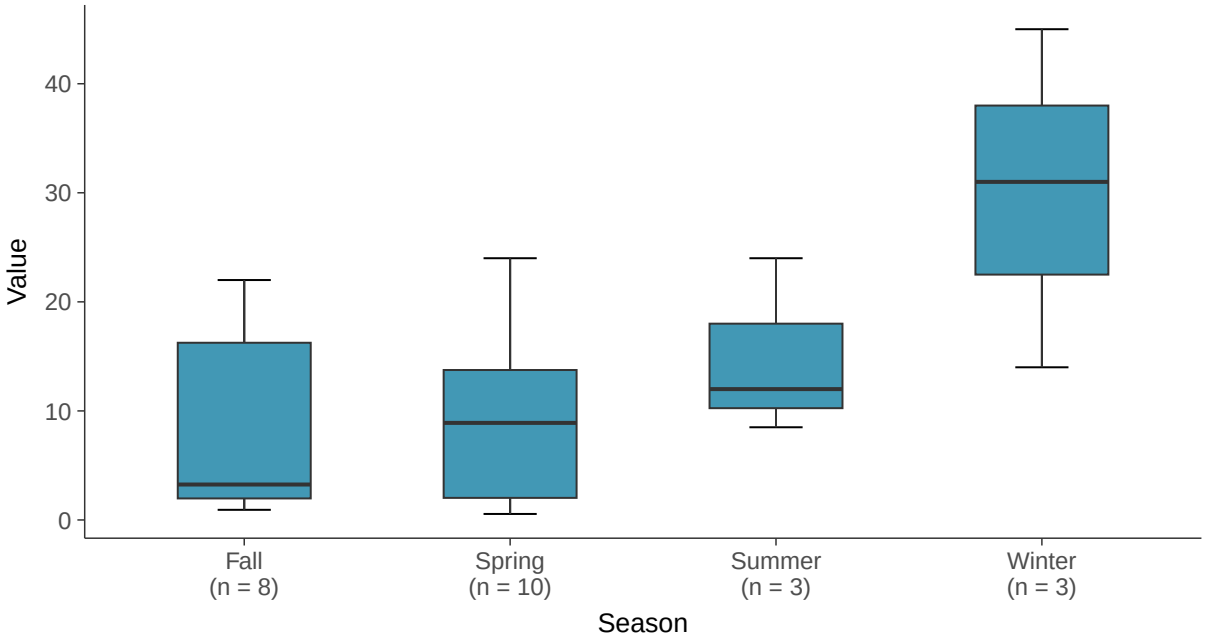
Boxplot

Arsenic, MW-15009 (ug/L)



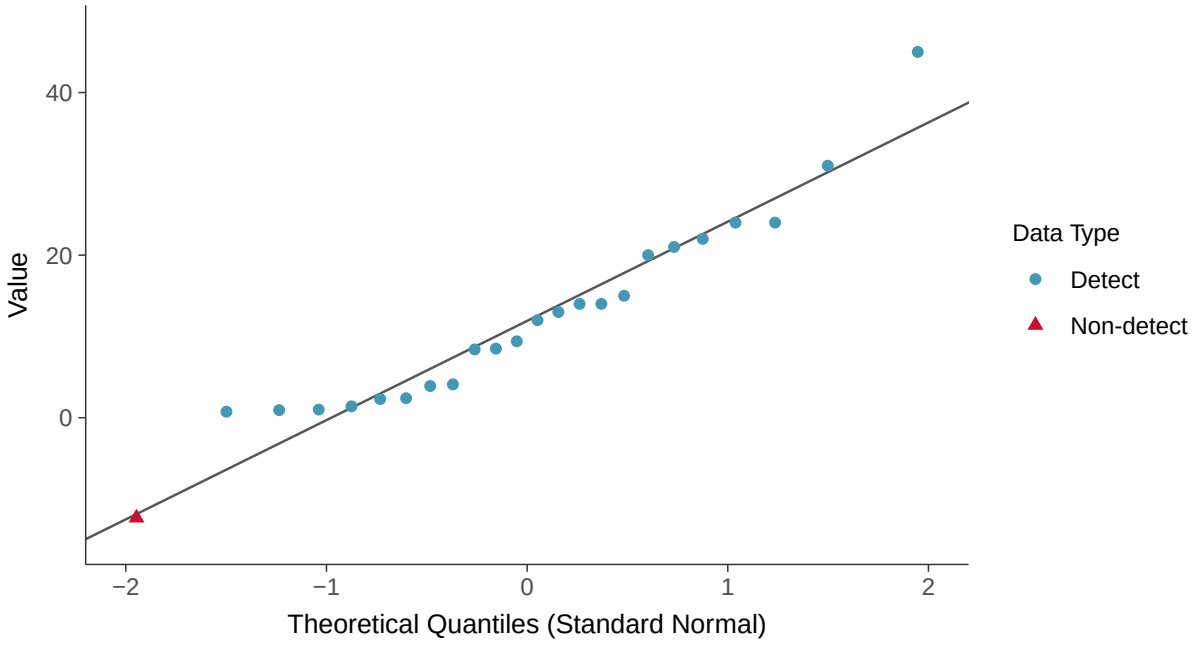
Boxplot by Season

Arsenic, MW-15009 (ug/L)



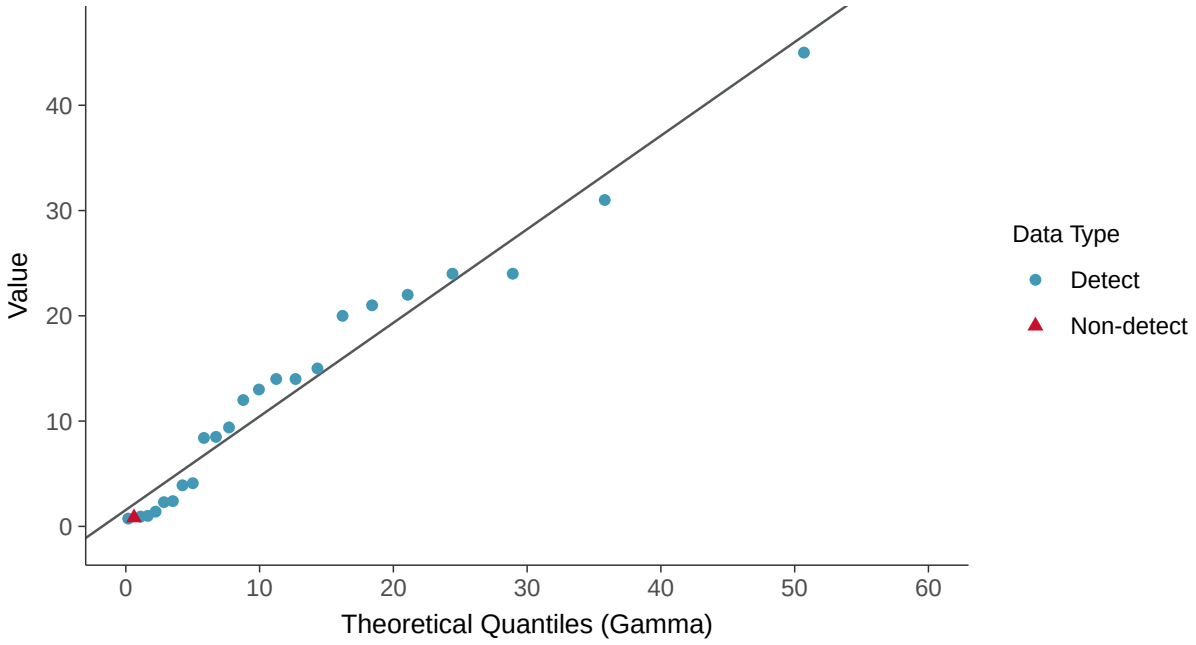
Normal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15009 (ug/L)



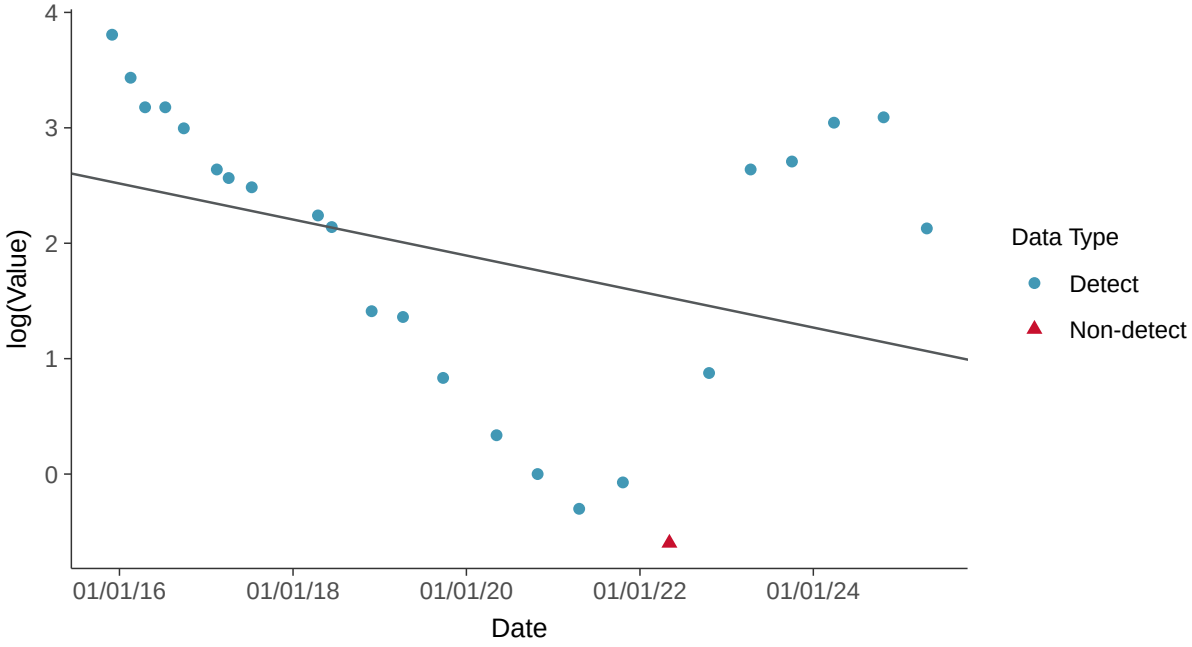
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15009 (ug/L)



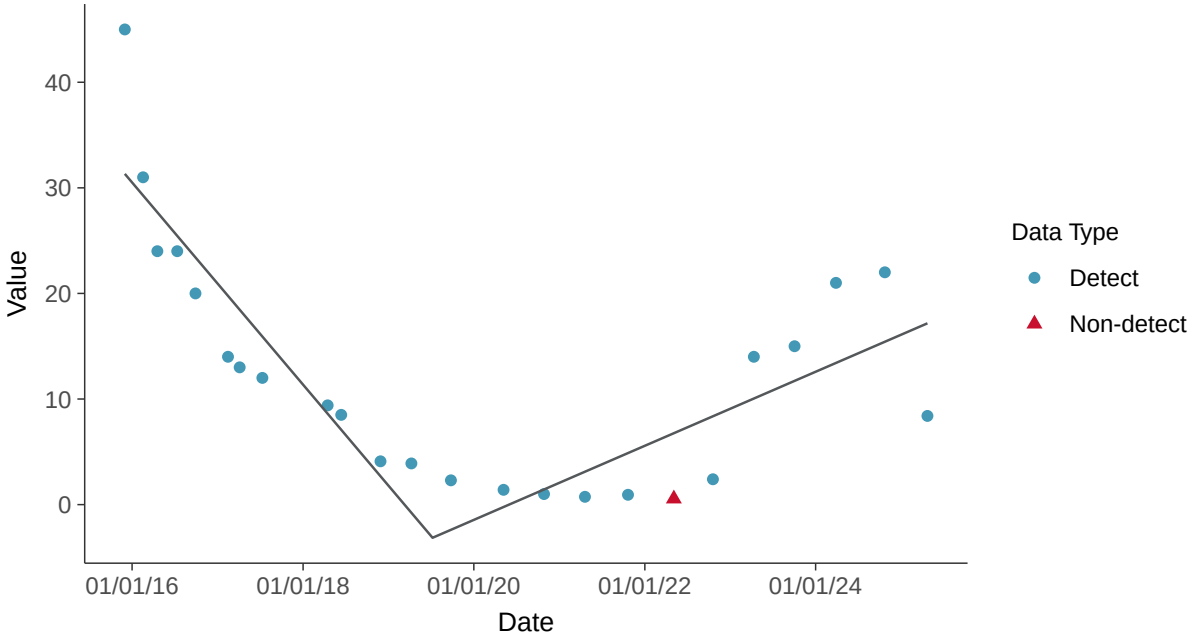
Trend Regression: Lognormal MLE

Arsenic, MW-15009 (ug/L)



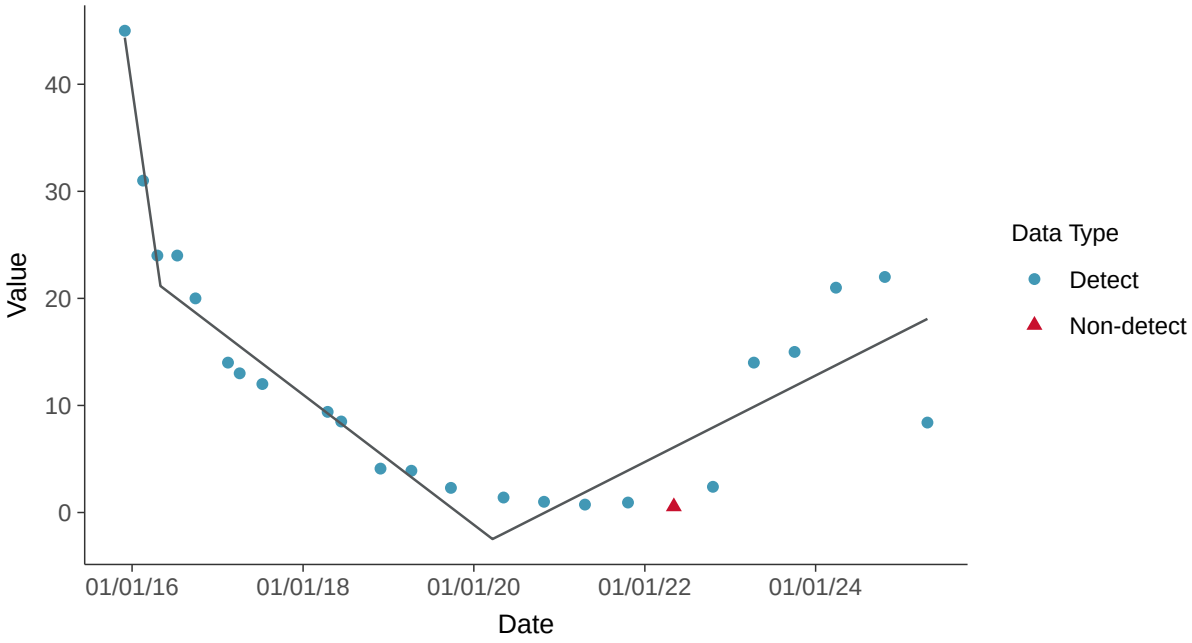
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-15009 (ug/L)



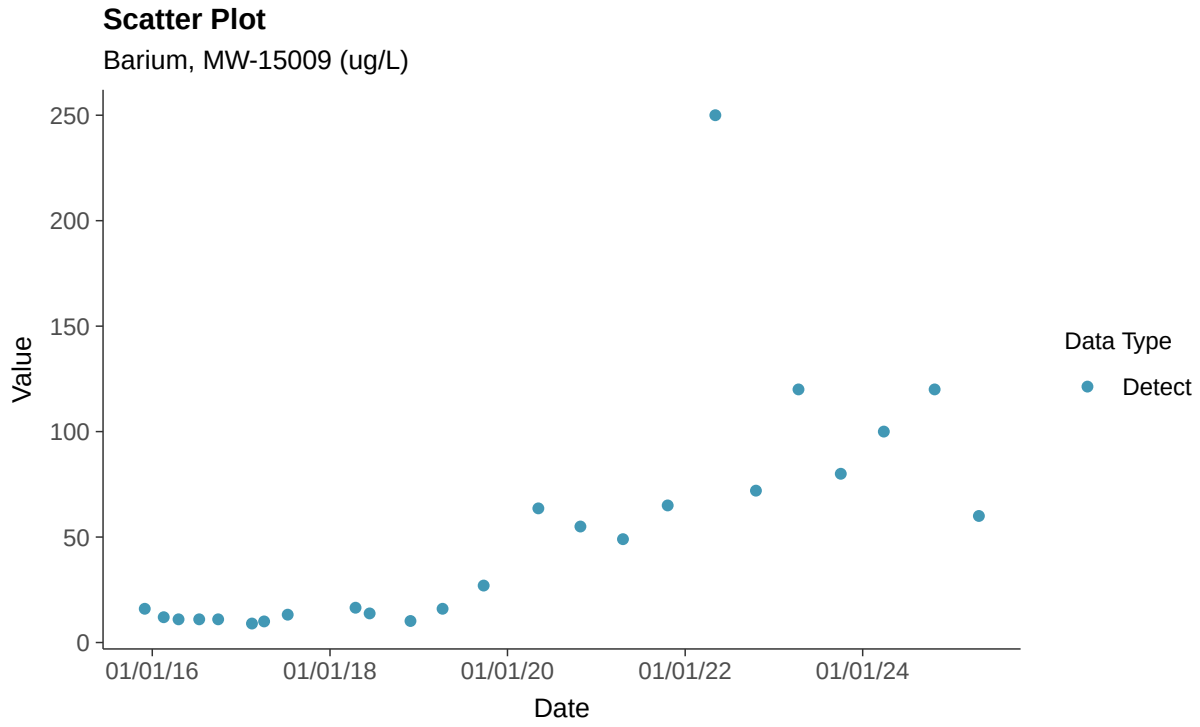
Trend Regression: Piecewise Linear-Linear-Linear

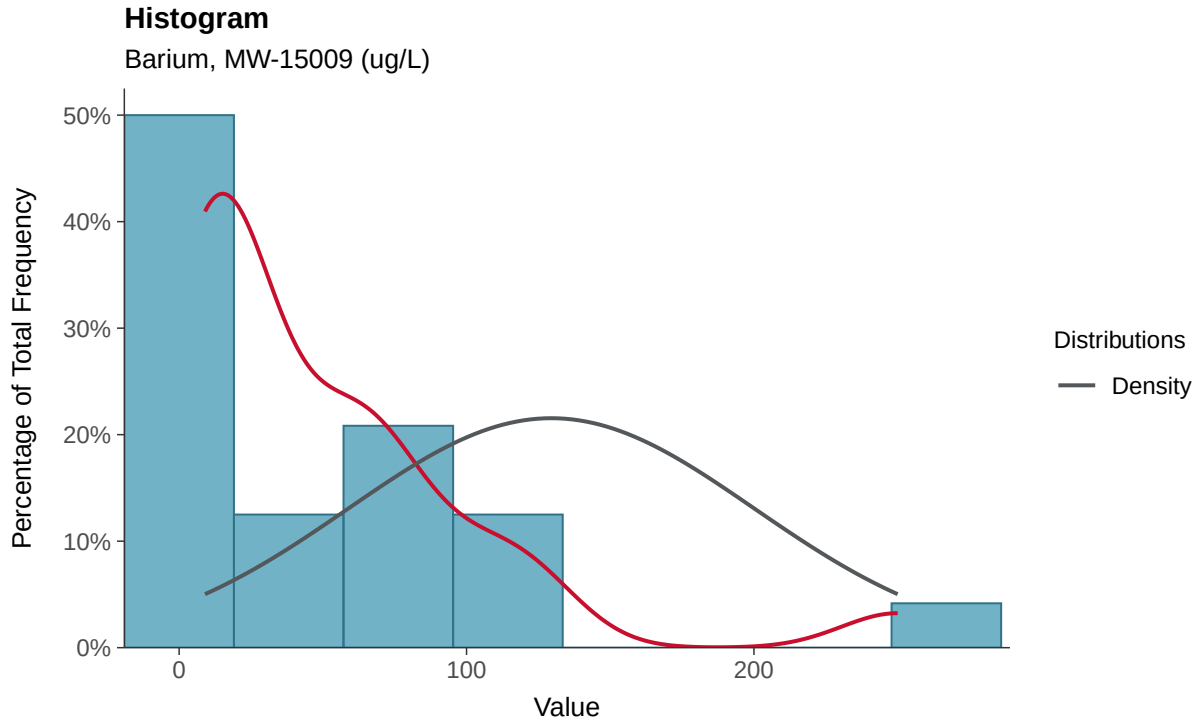
Arsenic, MW-15009 (ug/L)



Appendix IV: Barium, MW-15009

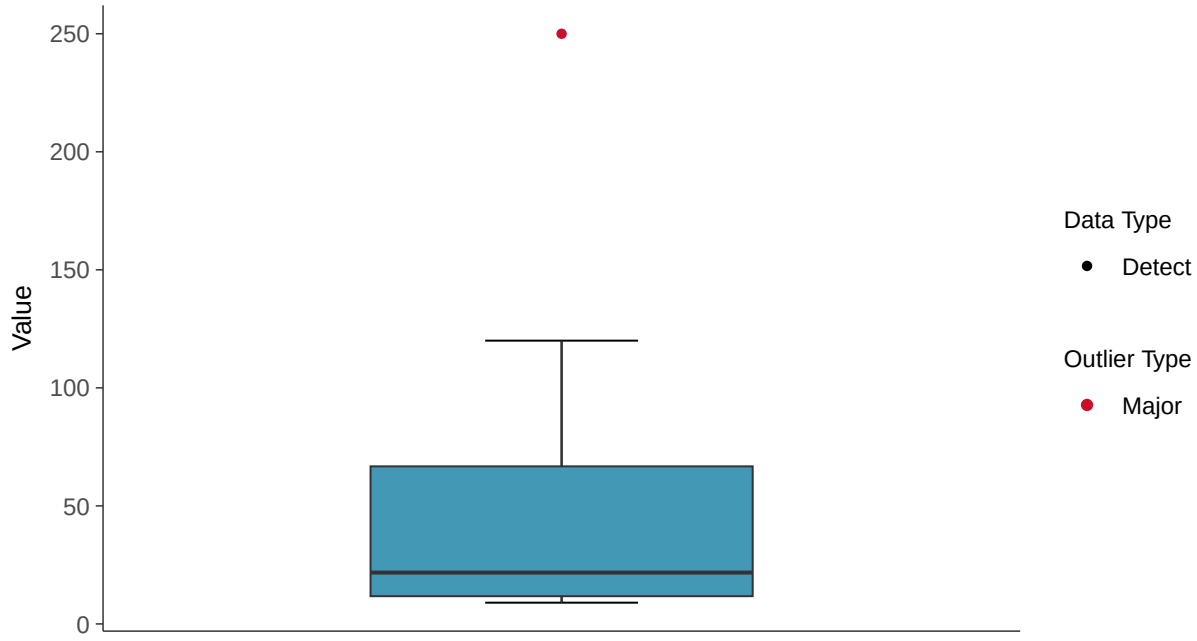
ID: 01_2_103





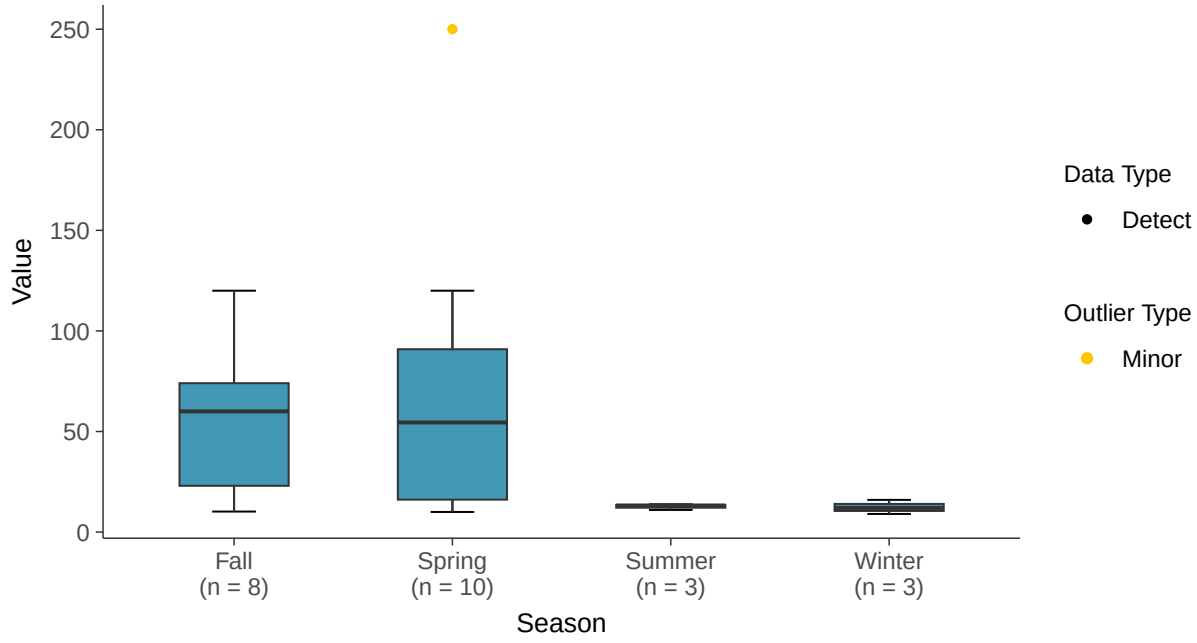
Boxplot

Barium, MW-15009 (ug/L)



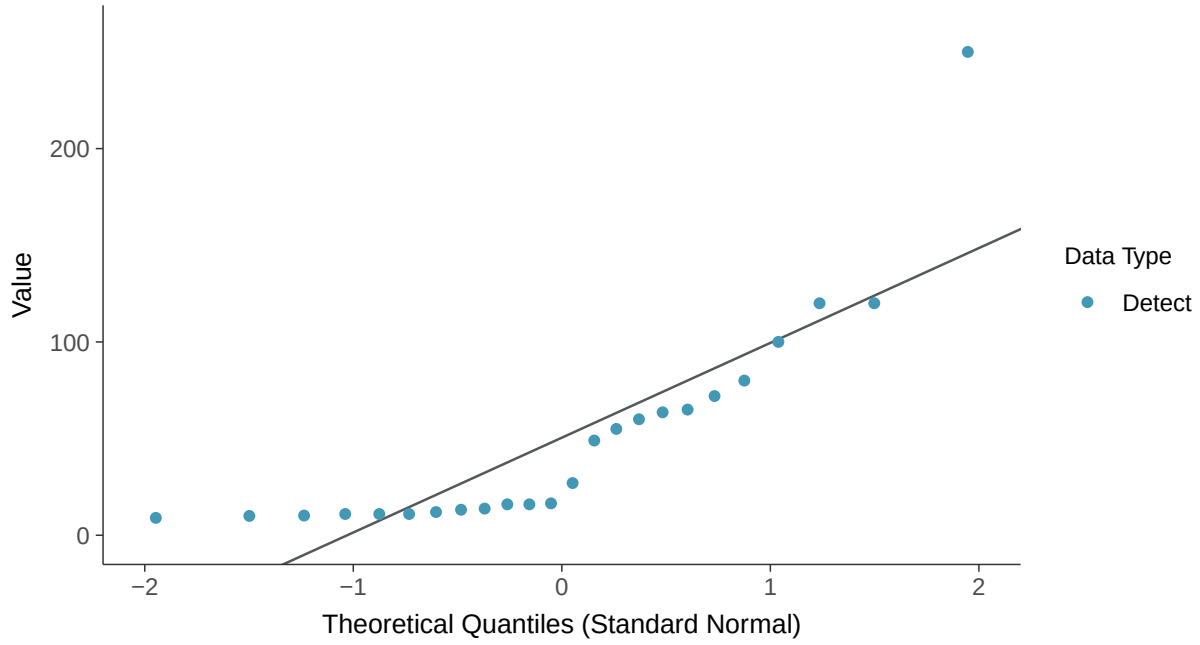
Boxplot by Season

Barium, MW-15009 (ug/L)



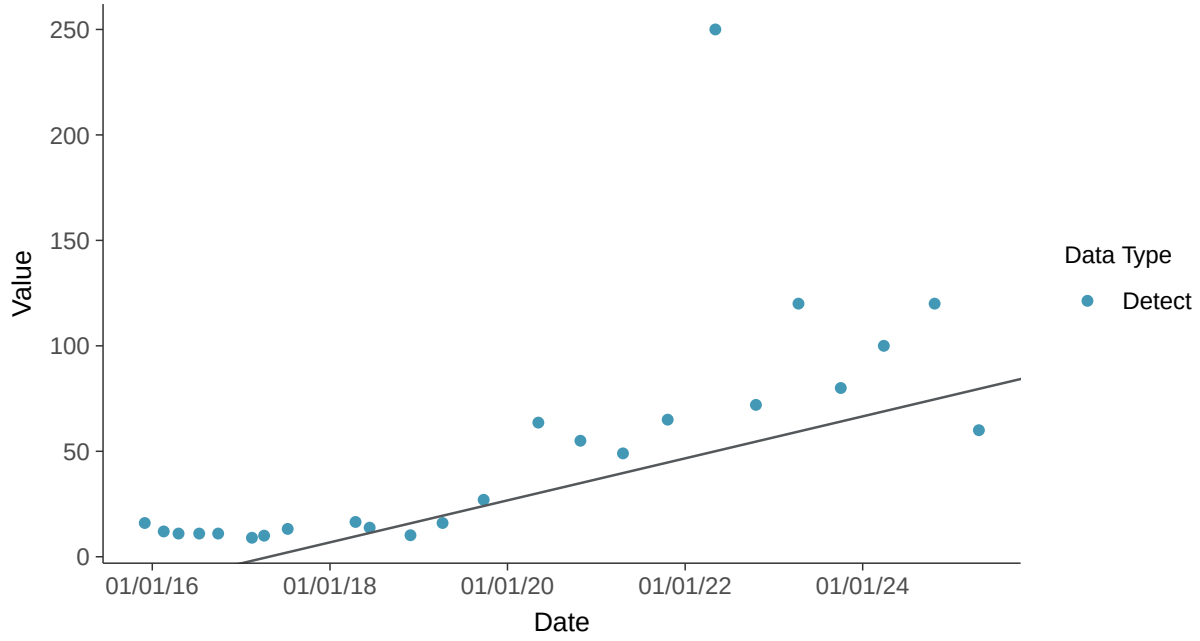
Normal Q-Q plot

Barium, MW-15009 (ug/L)



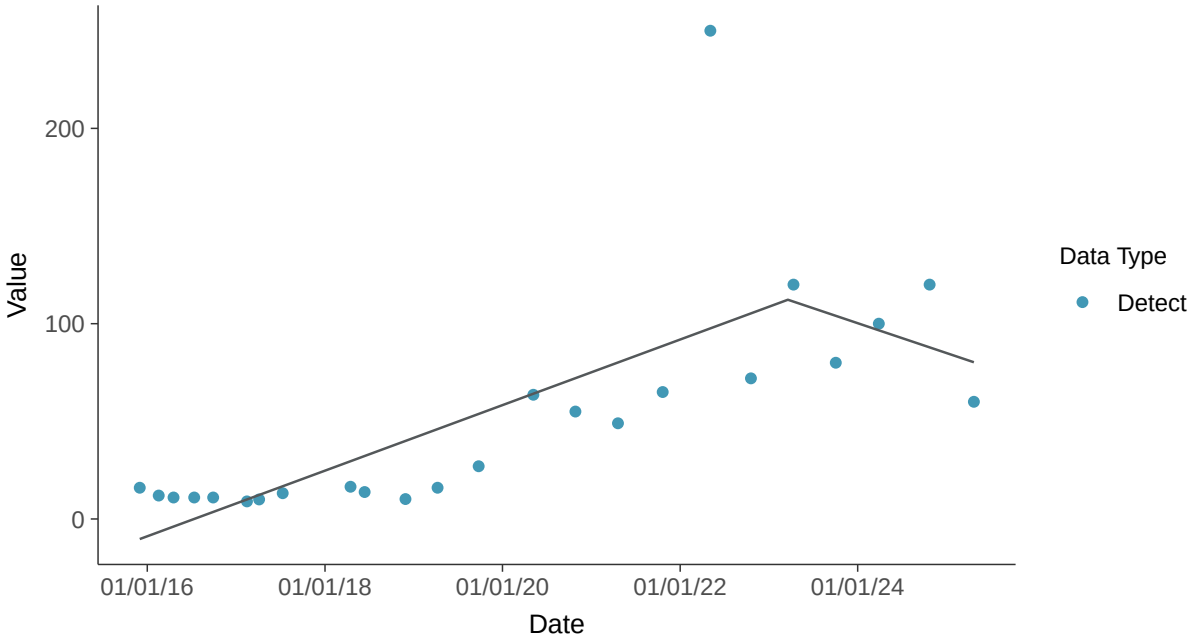
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Barium, MW-15009 (ug/L)



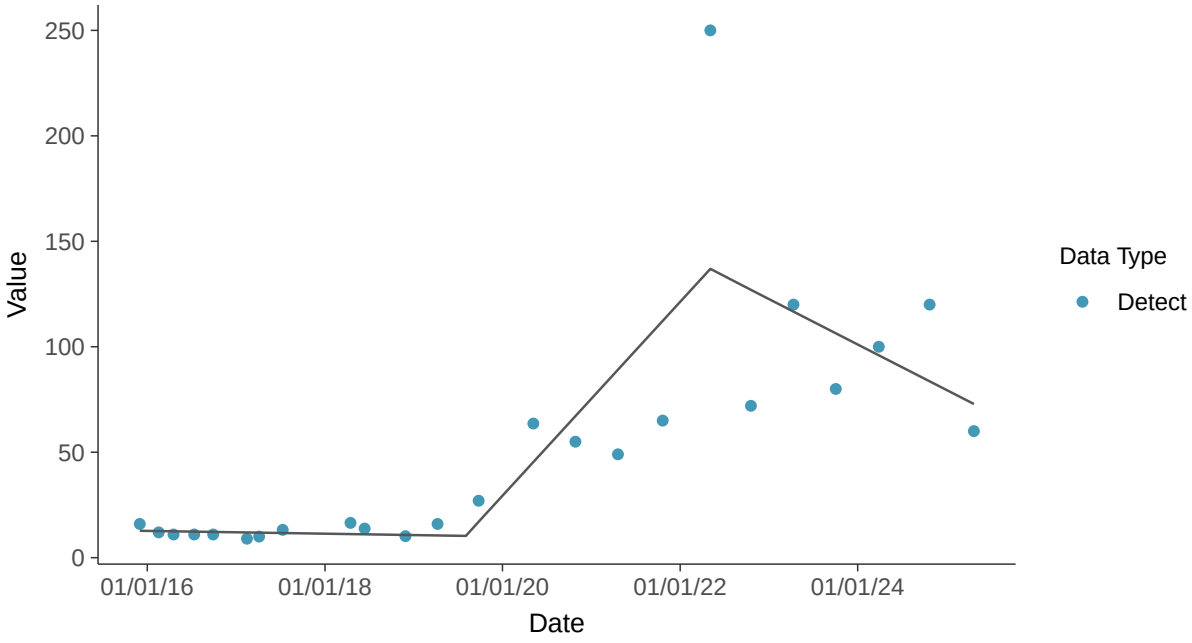
Trend Regression: Piecewise Linear-Linear

Barium, MW-15009 (ug/L)



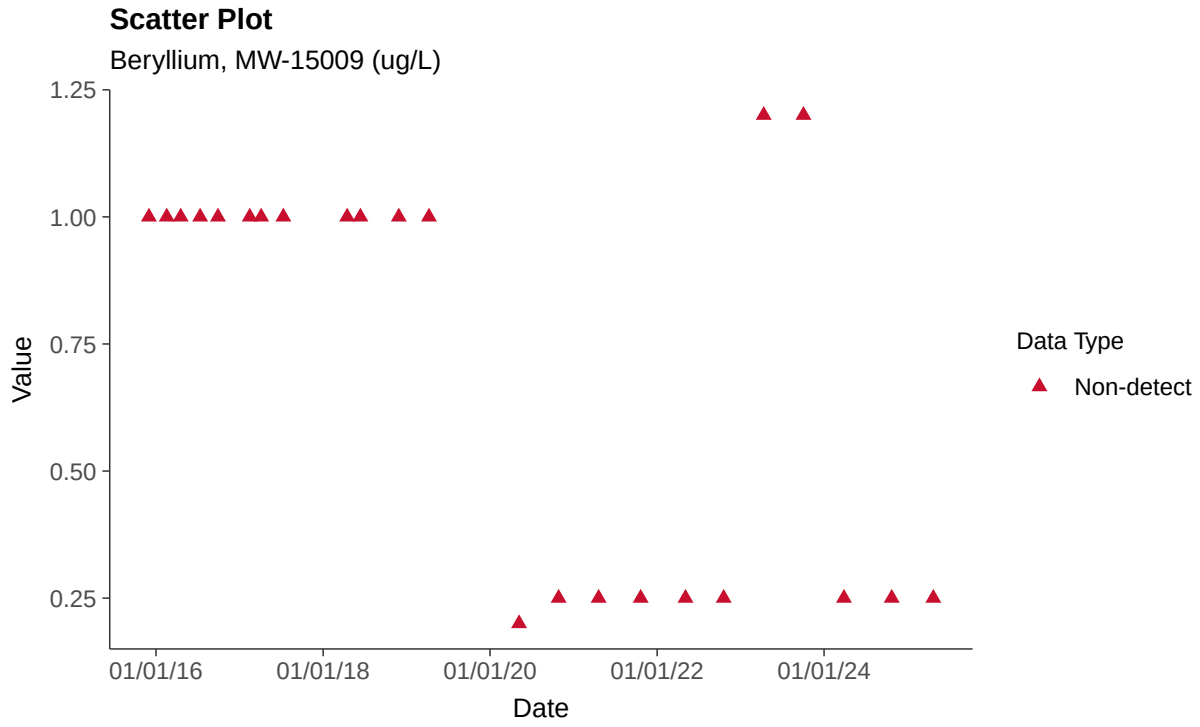
Trend Regression: Piecewise Linear-Linear-Linear

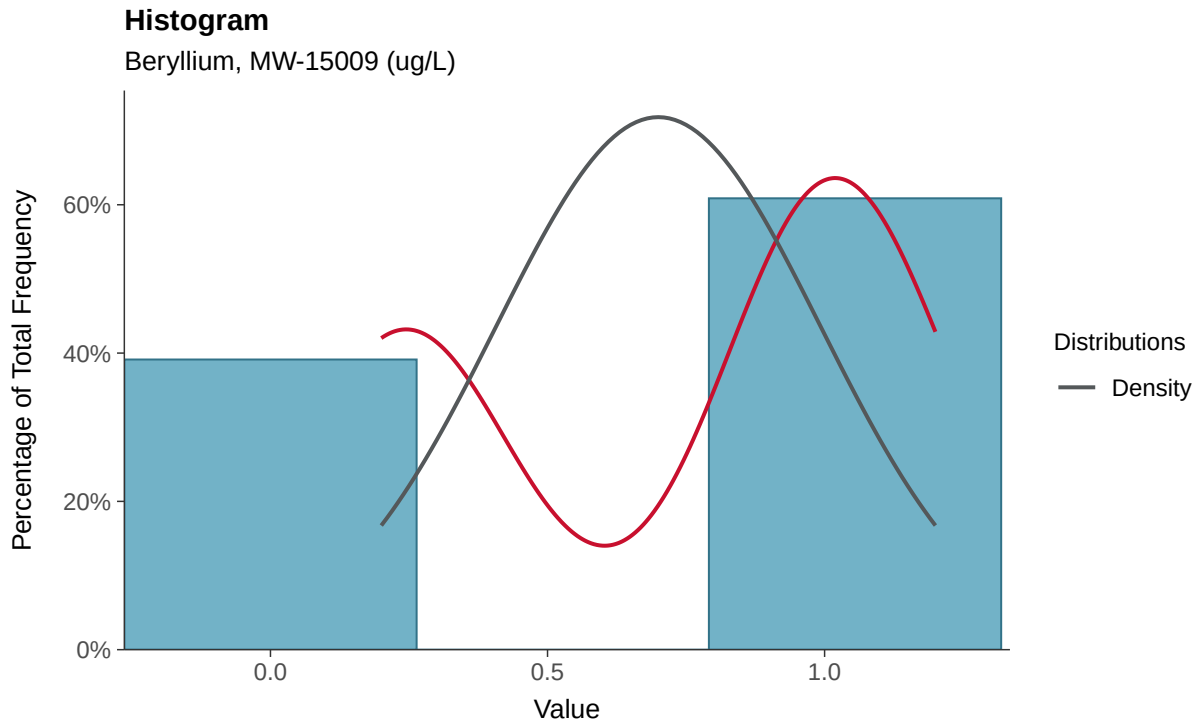
Barium, MW-15009 (ug/L)



Appendix IV: Beryllium, MW-15009

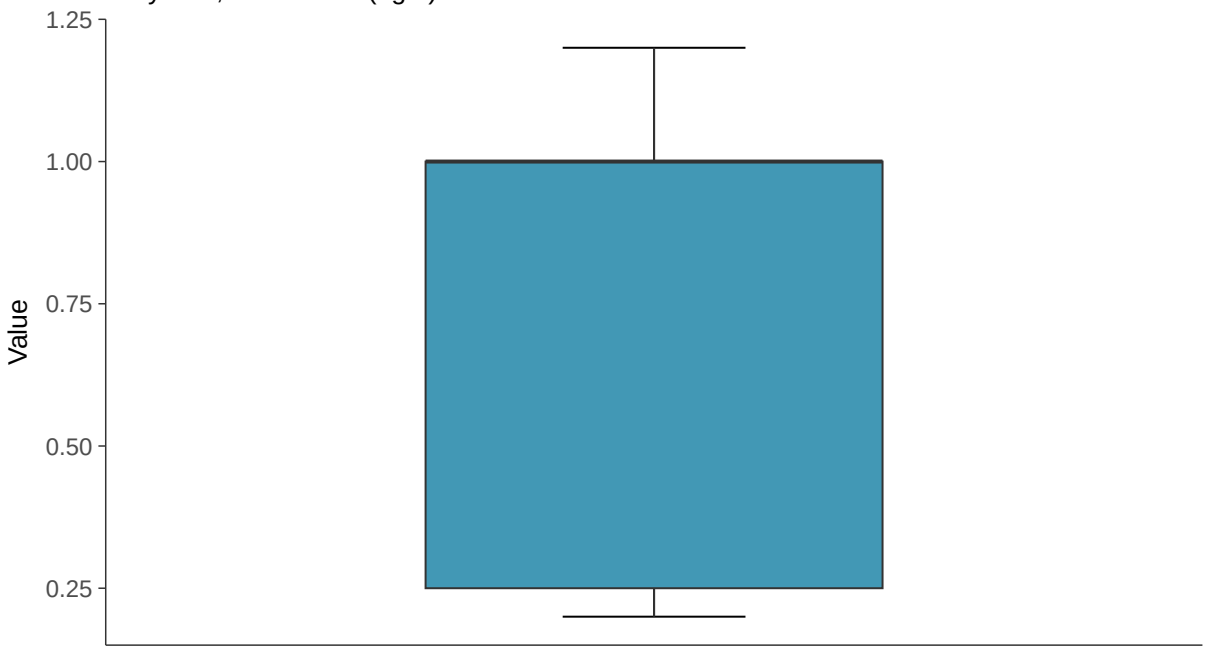
ID: 01_2_104





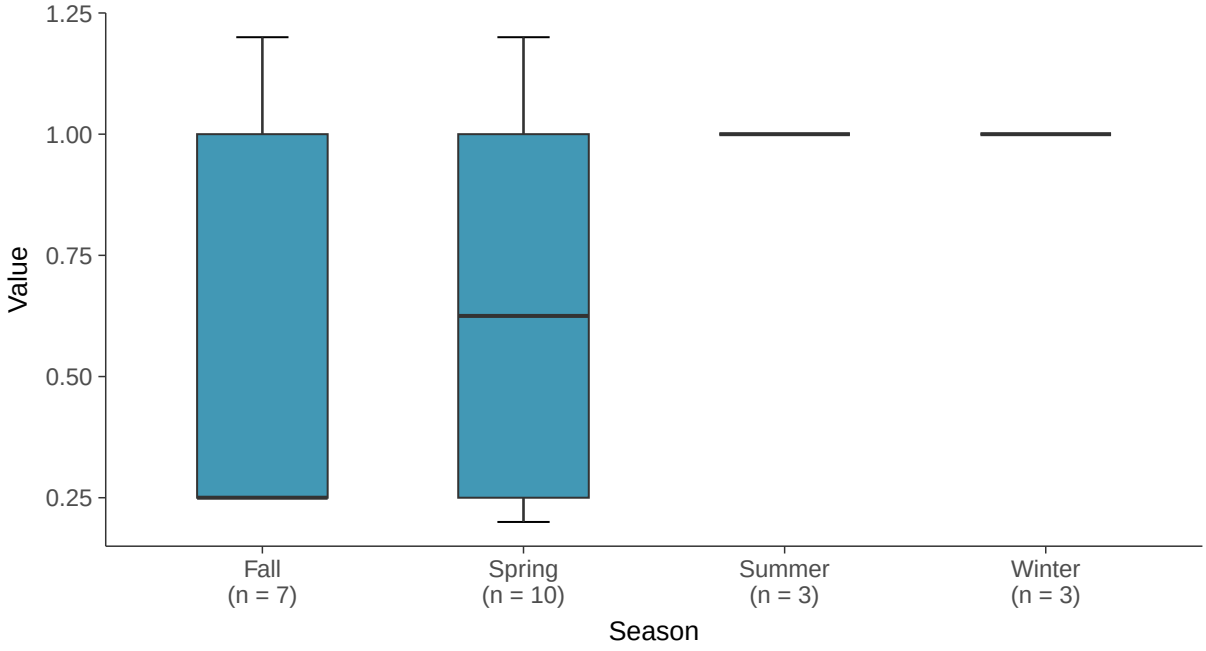
Boxplot

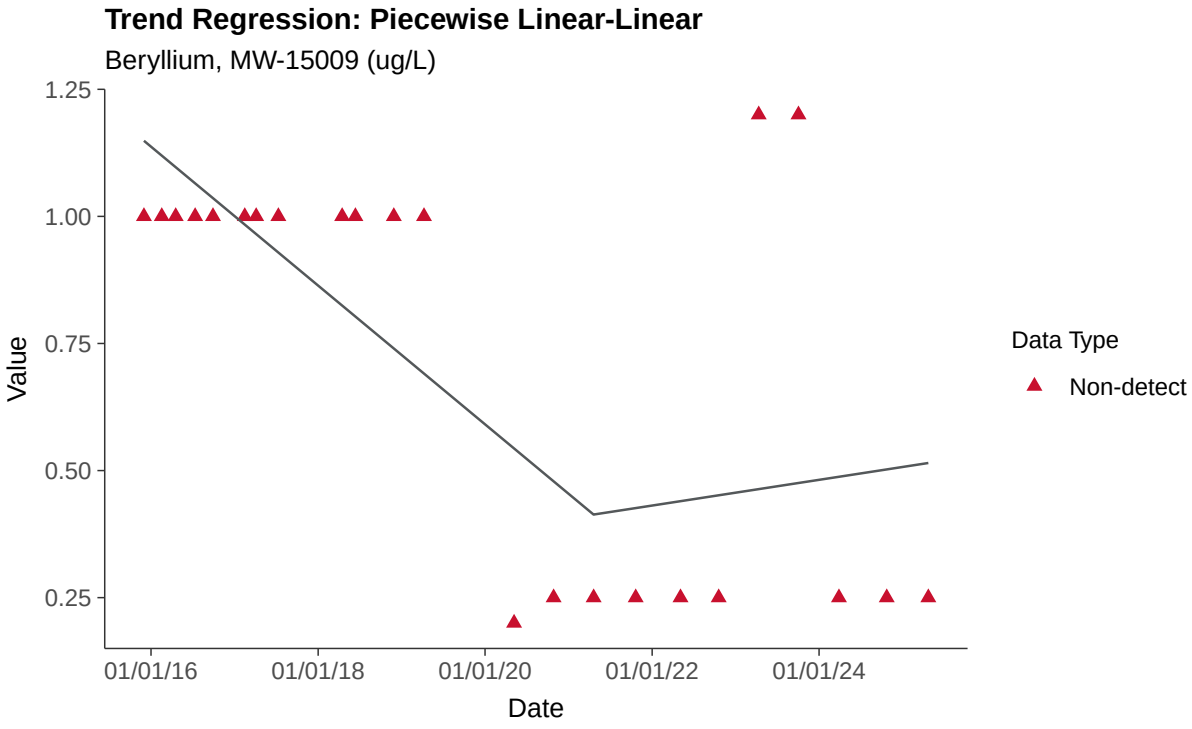
Beryllium, MW-15009 (ug/L)



Boxplot by Season

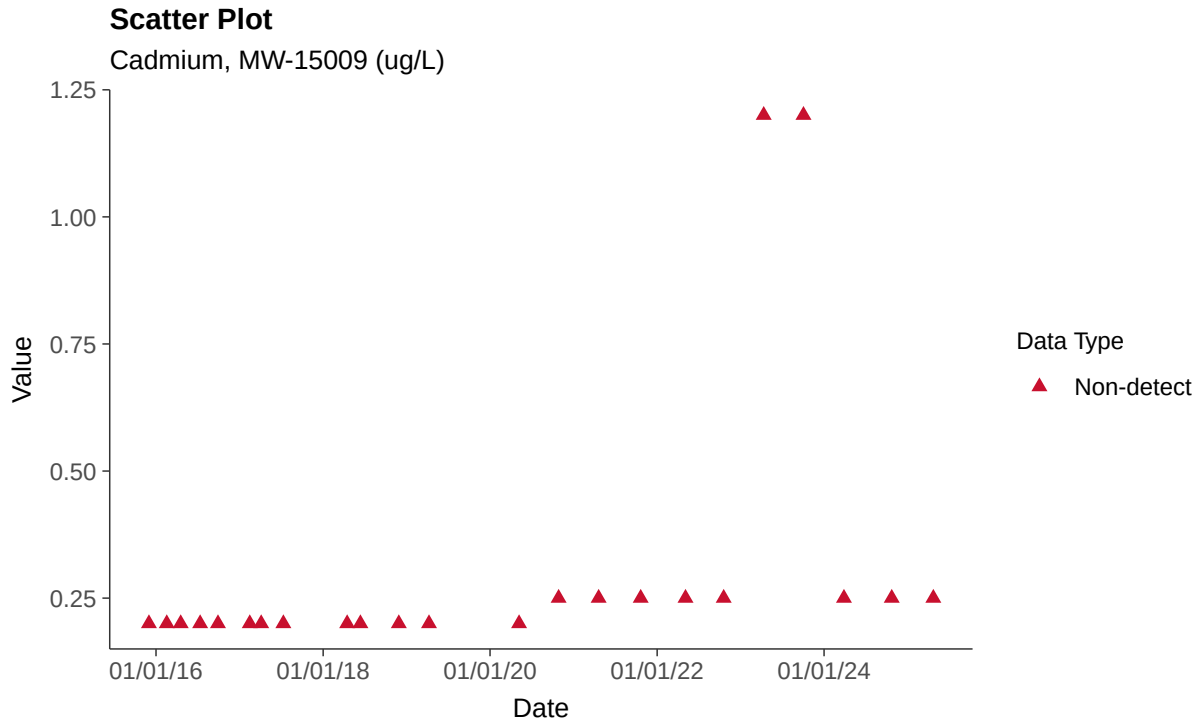
Beryllium, MW-15009 (ug/L)

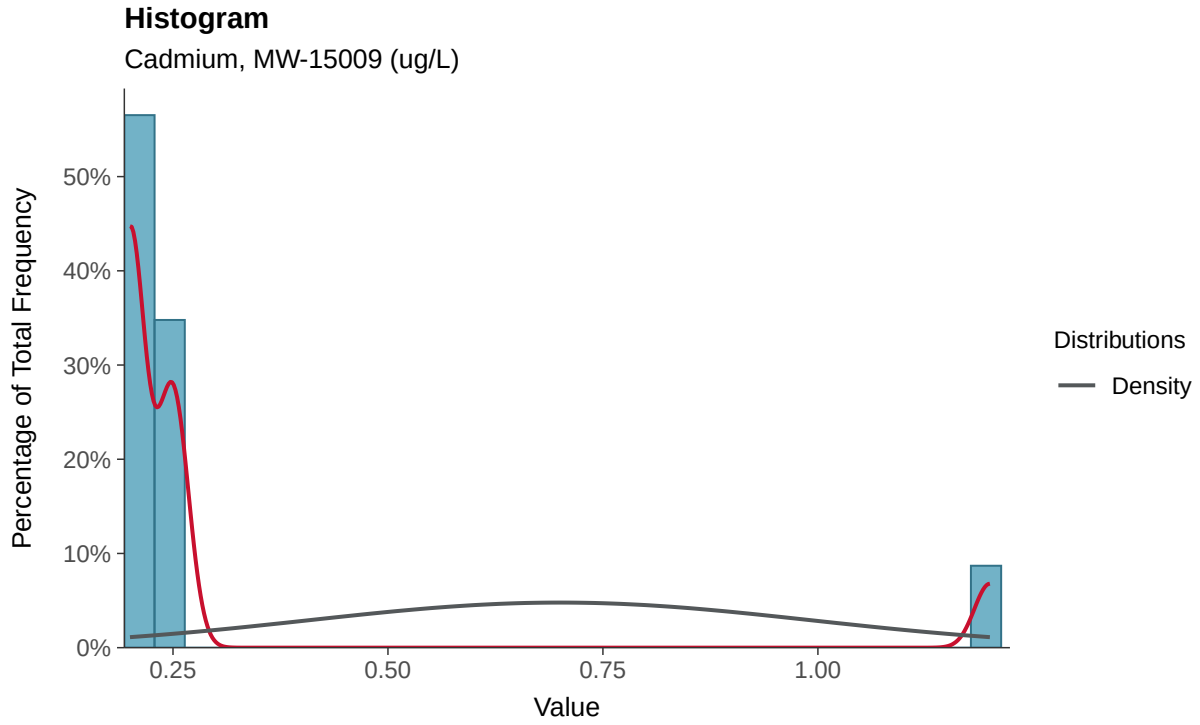



Trend Regression: Piecewise Linear-Linear
Beryllium, MW-15009 (ug/L)
1.25
1.00
0.75
0.50
0.25
Value
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Non-detect

Appendix IV: Cadmium, MW-15009

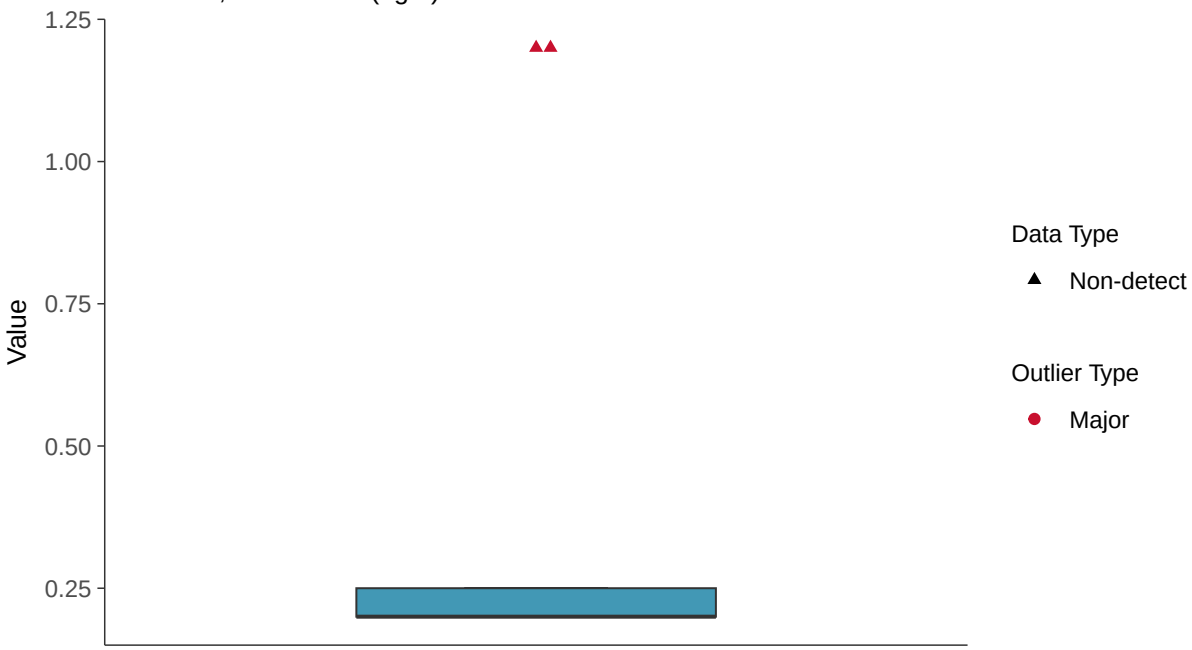
ID: 01_2_106





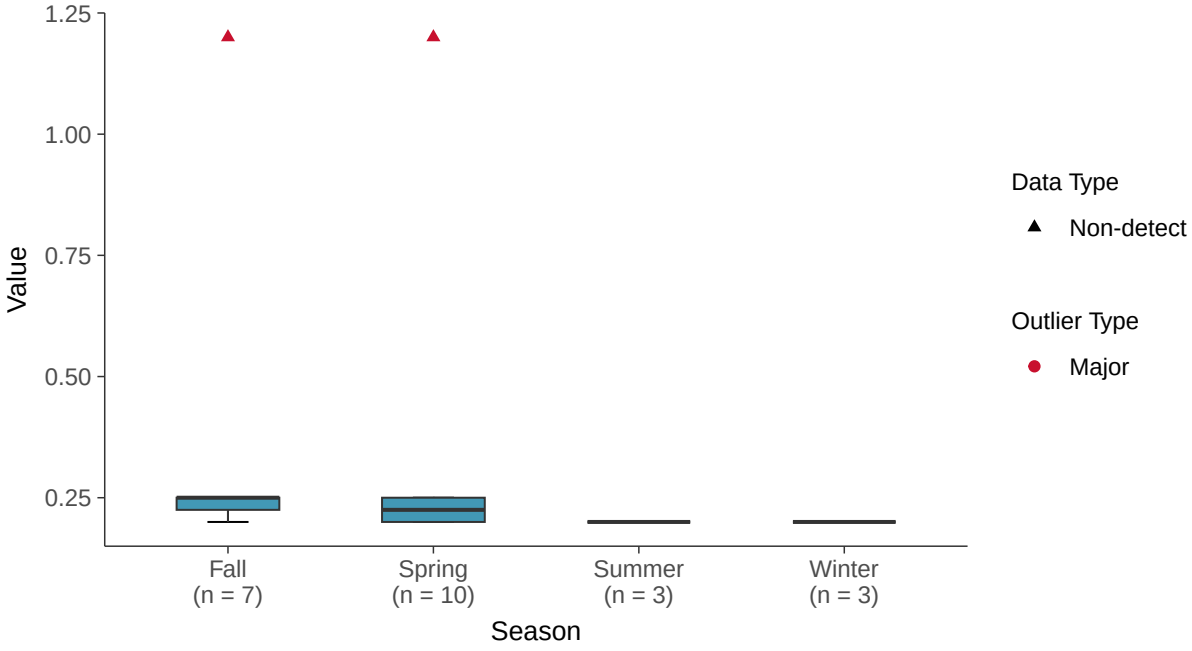
Boxplot

Cadmium, MW-15009 (ug/L)



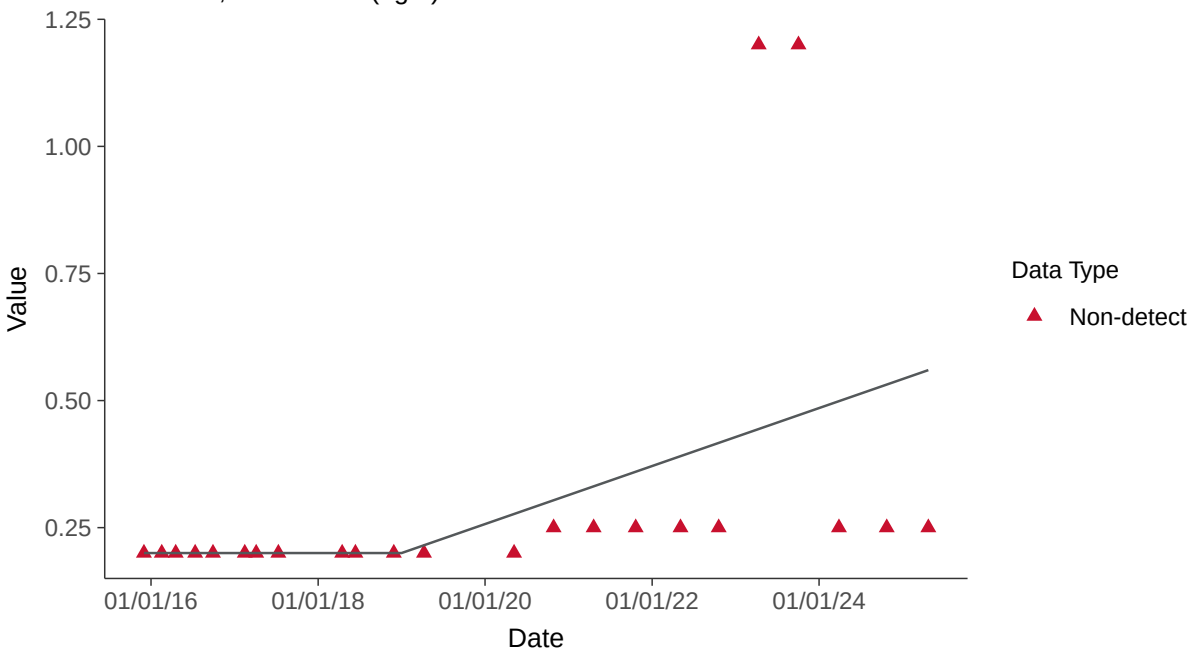
Boxplot by Season

Cadmium, MW-15009 (ug/L)



Trend Regression: Piecewise Linear-Linear

Cadmium, MW-15009 (ug/L)

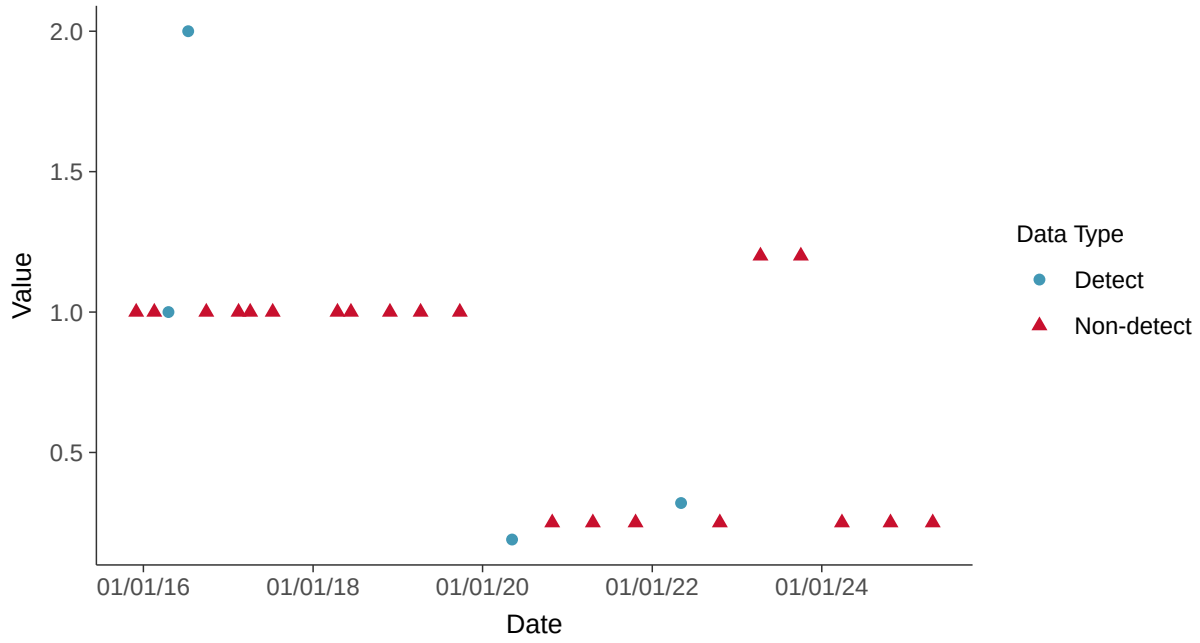


Appendix IV: Chromium, MW-15009

ID: 01_2_109

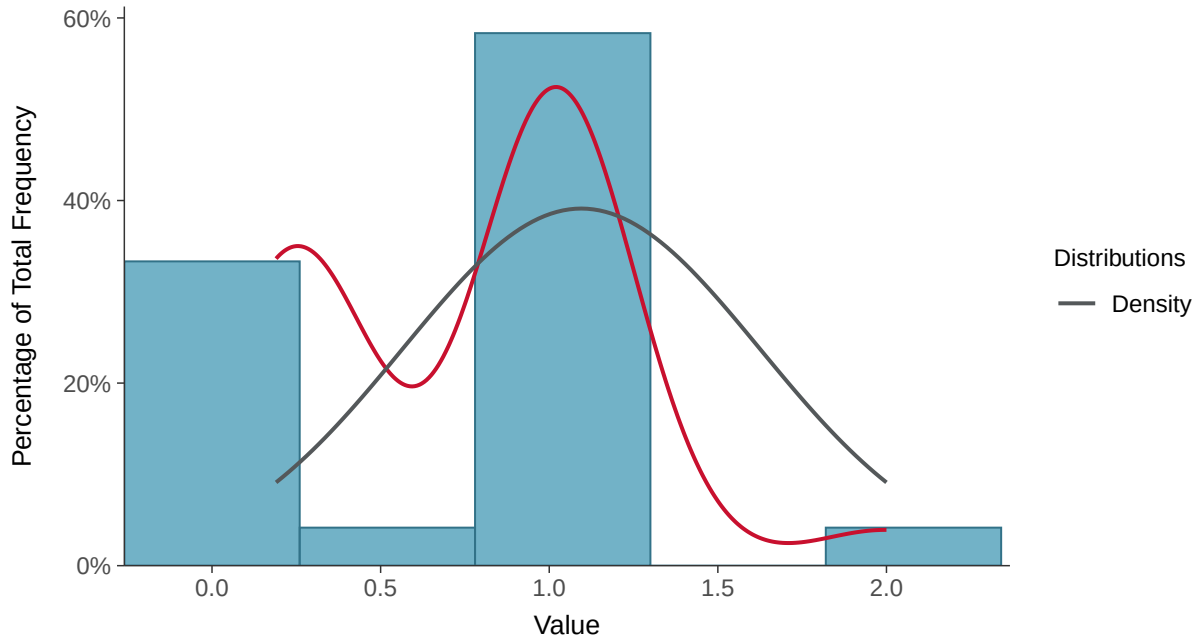
Scatter Plot

Chromium, MW-15009 (ug/L)



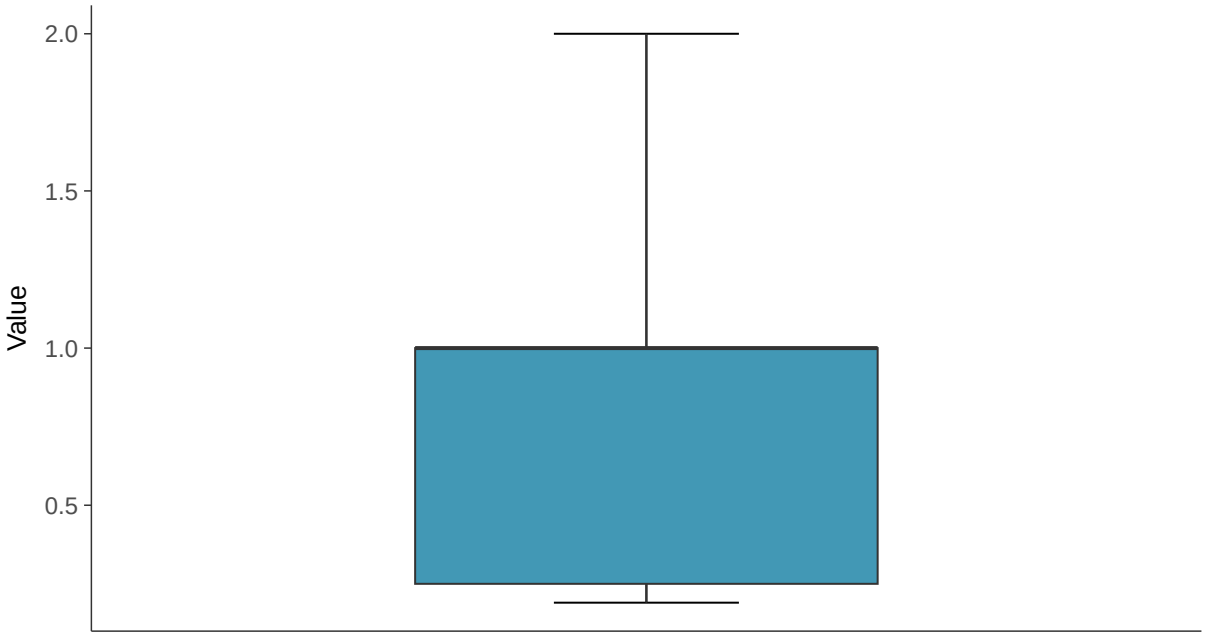
Histogram

Chromium, MW-15009 (ug/L)



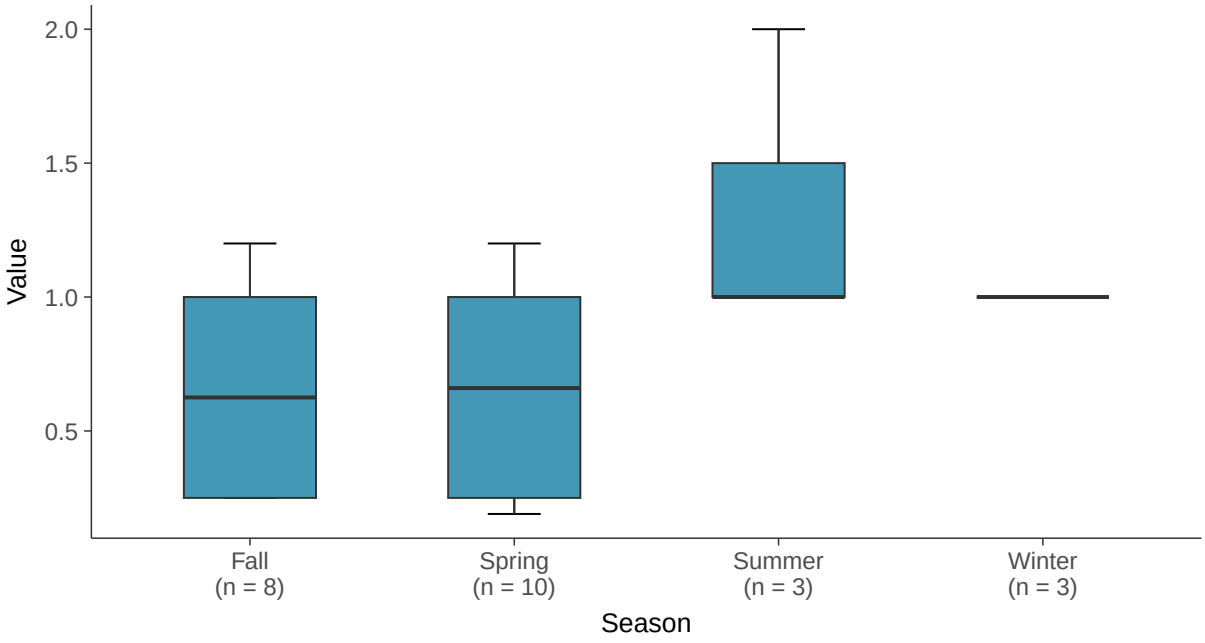
Boxplot

Chromium, MW-15009 (ug/L)



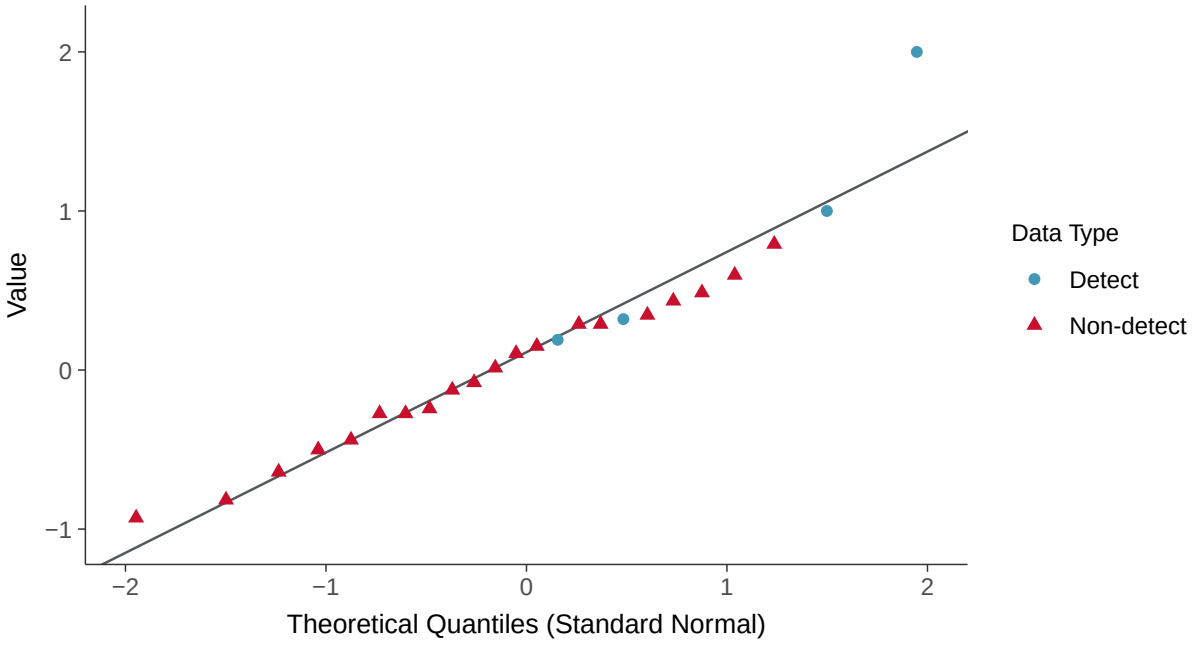
Boxplot by Season

Chromium, MW-15009 (ug/L)



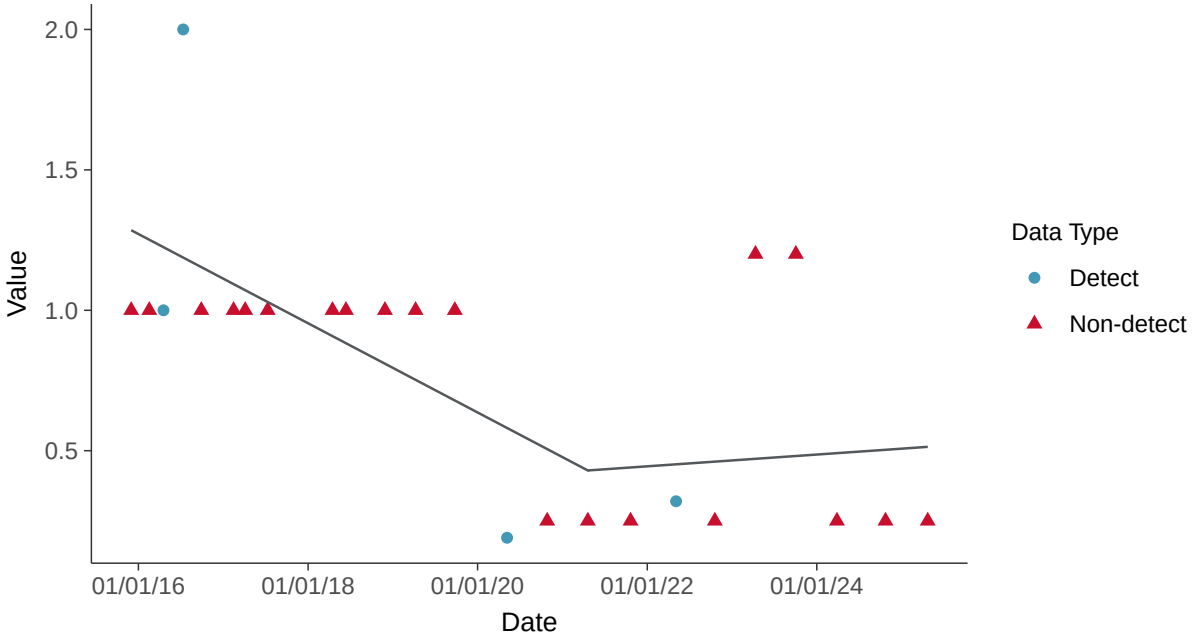
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15009 (ug/L)



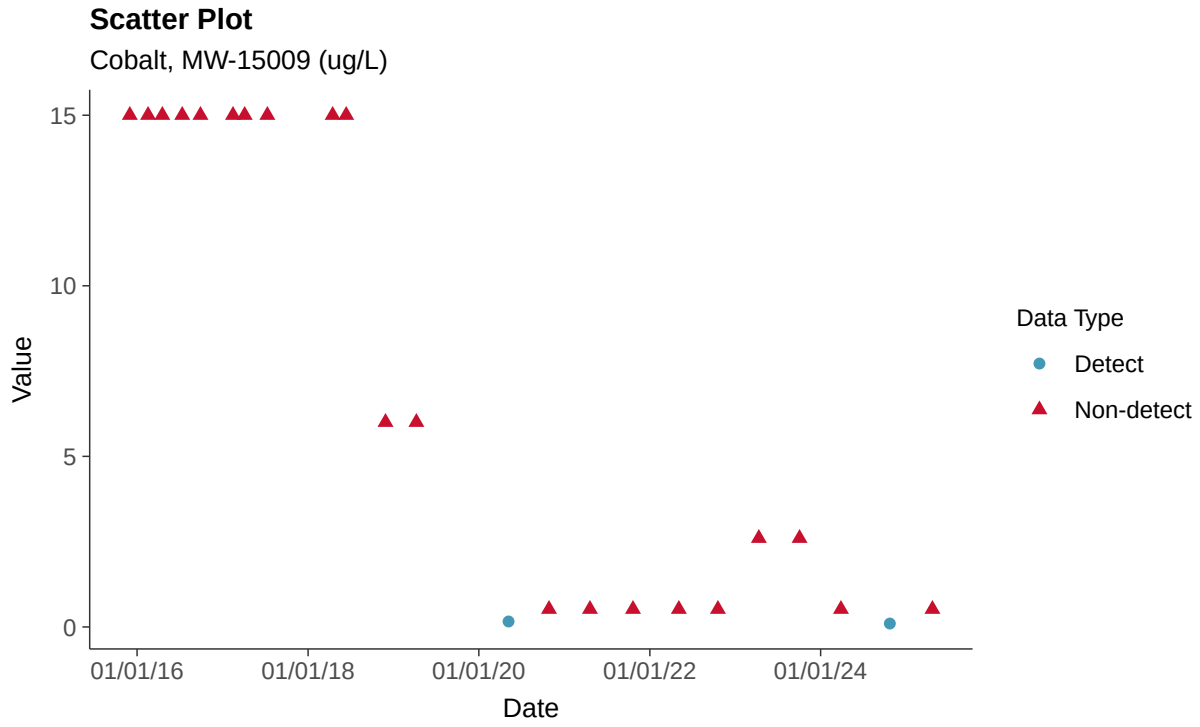
Trend Regression: Piecewise Linear-Linear

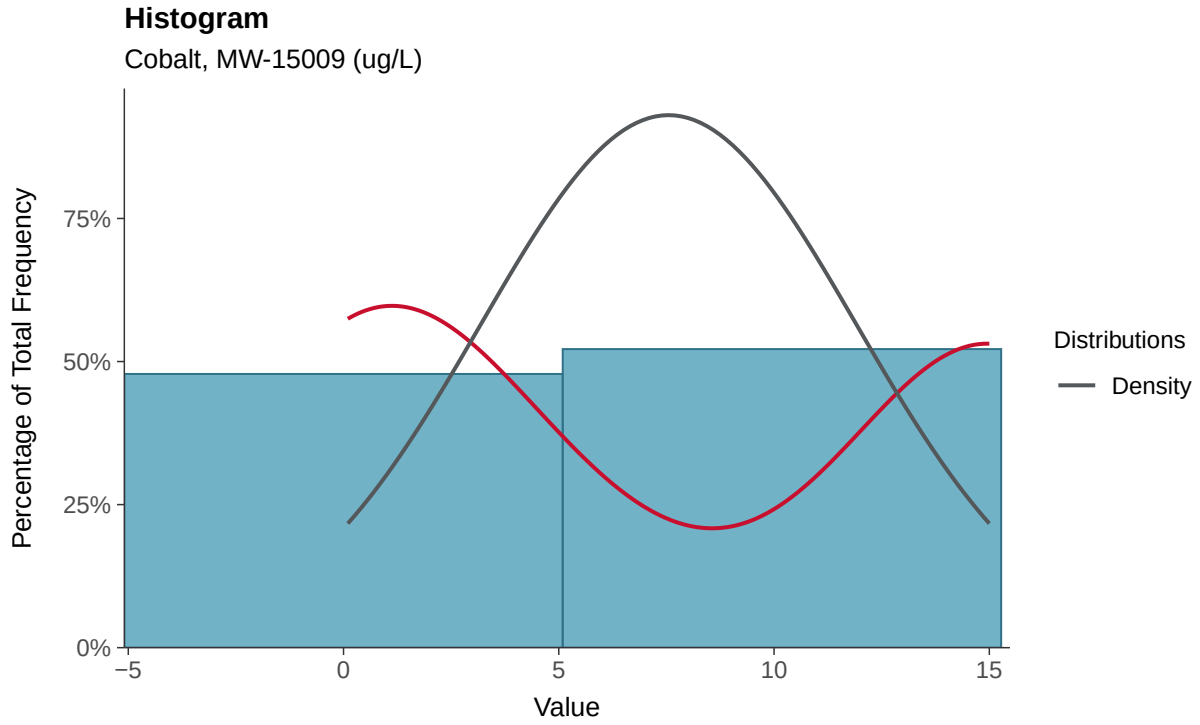
Chromium, MW-15009 (ug/L)



Appendix IV: Cobalt, MW-15009

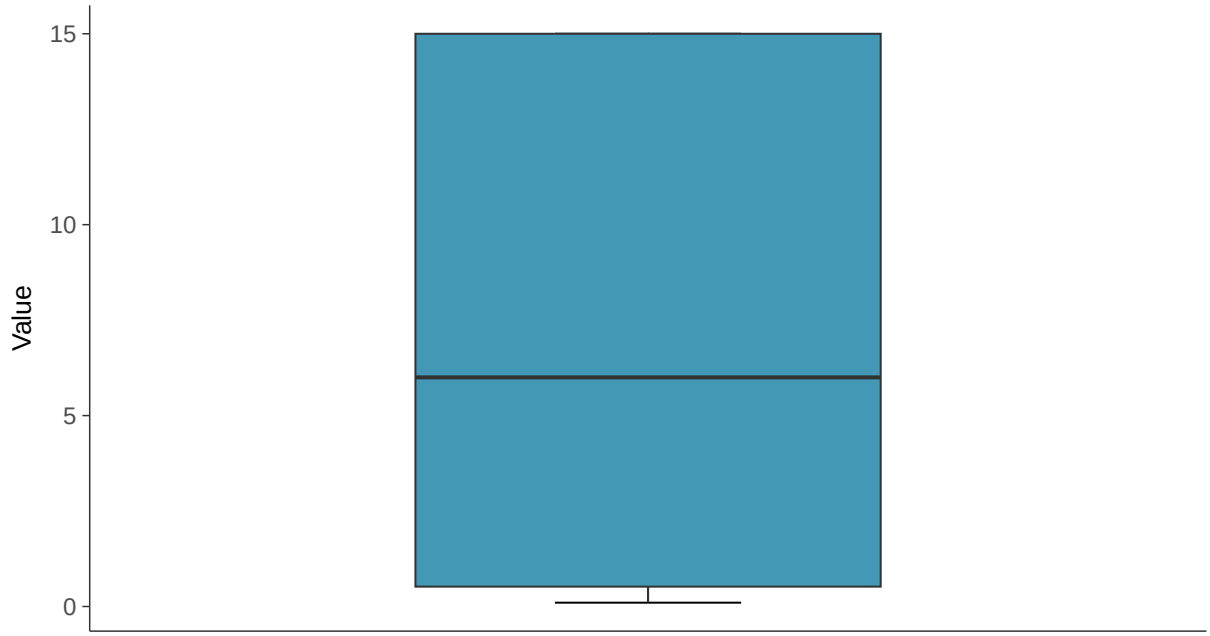
ID: 01_2_110





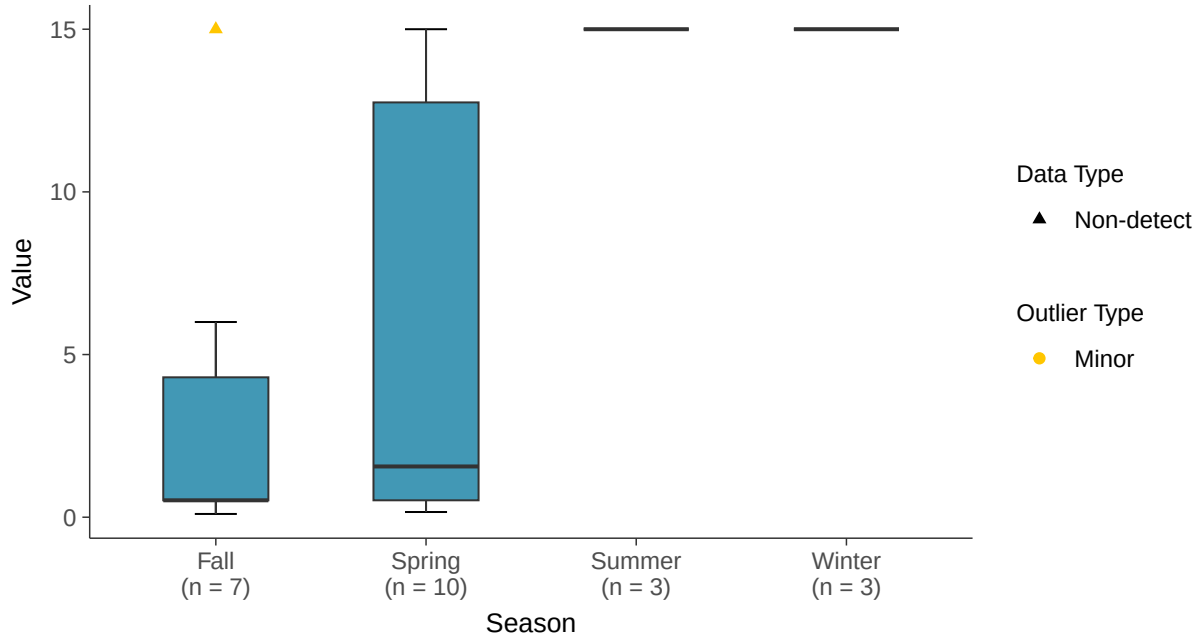
Boxplot

Cobalt, MW-15009 (ug/L)



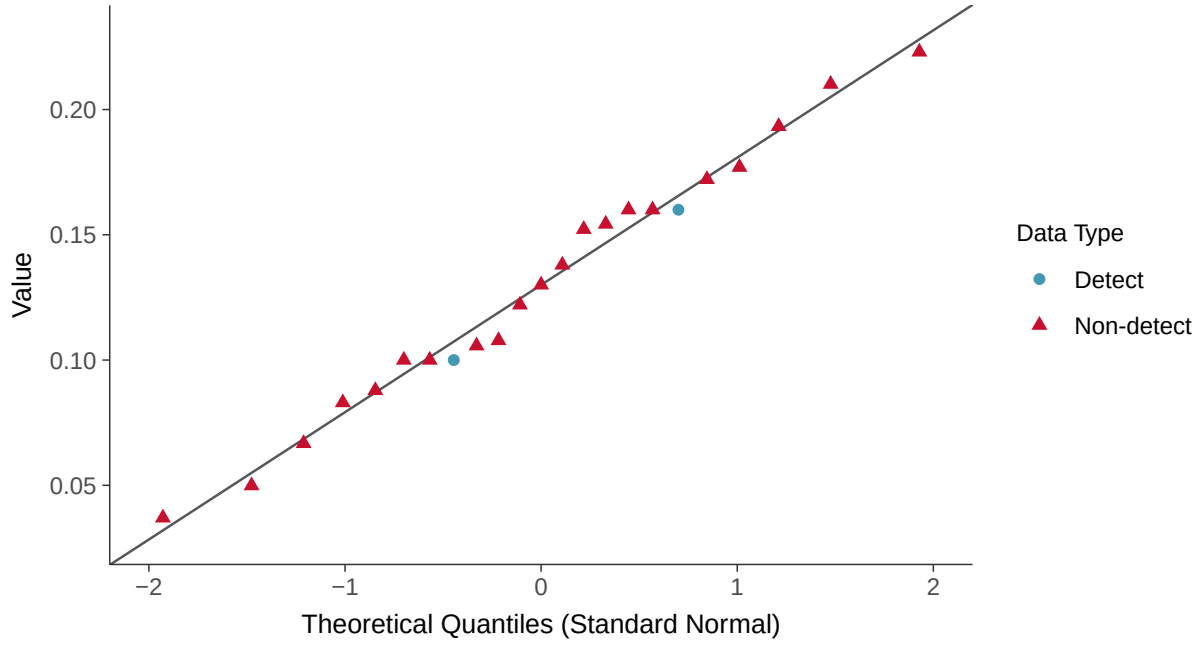
Boxplot by Season

Cobalt, MW-15009 (ug/L)



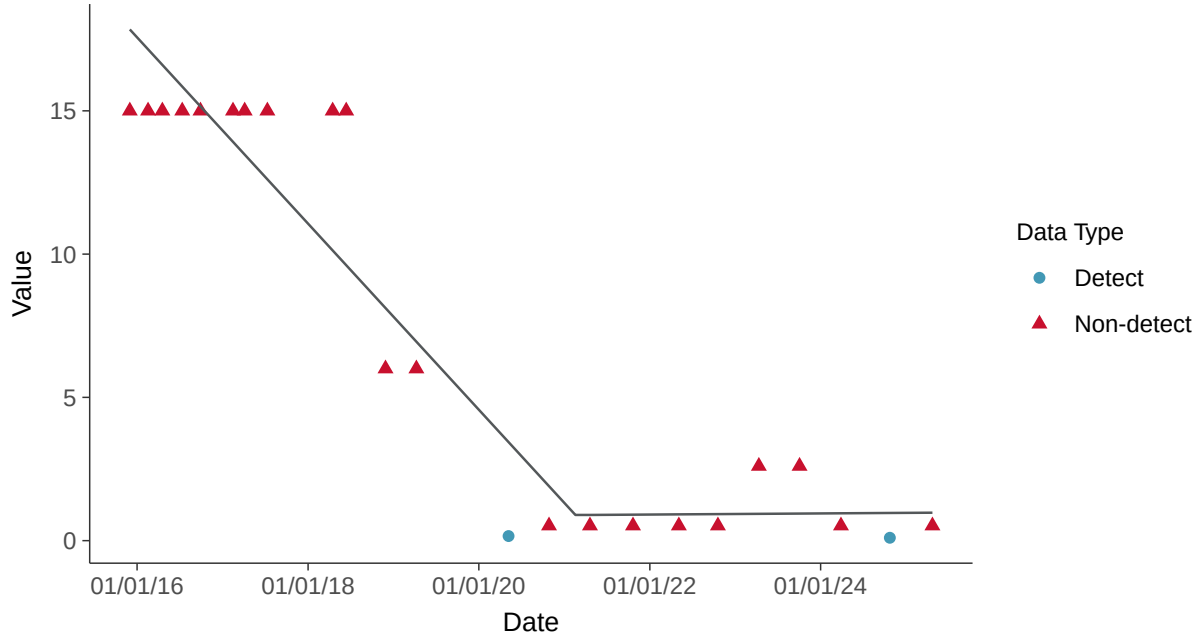
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15009 (ug/L)



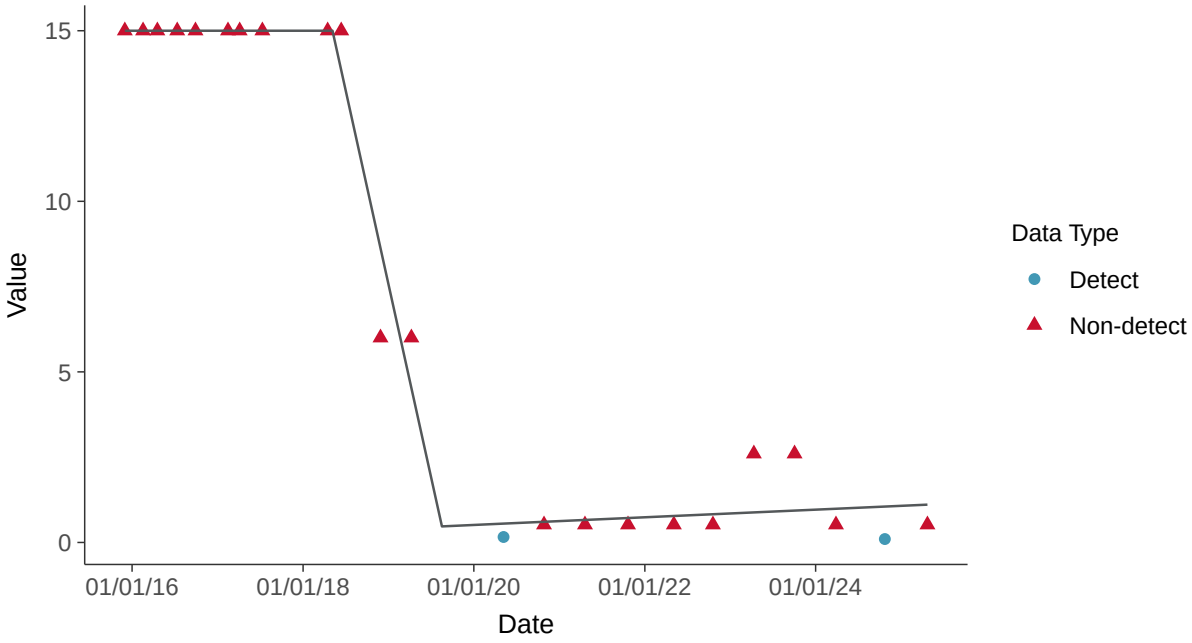
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15009 (ug/L)



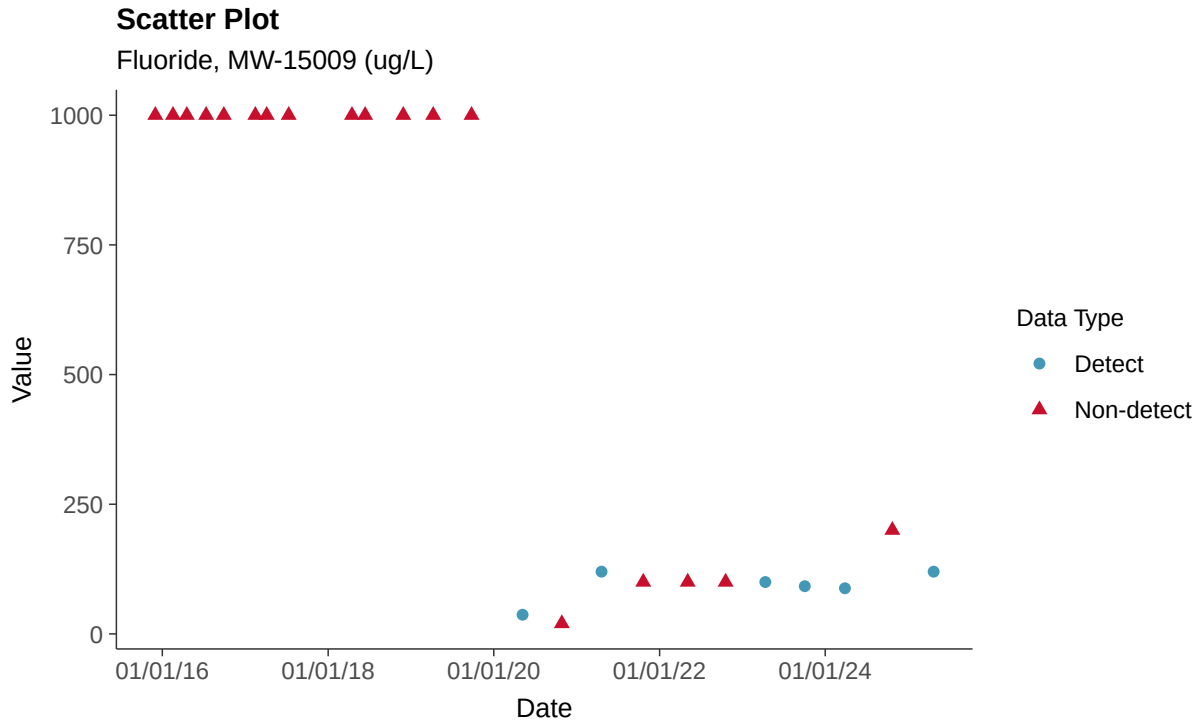
Trend Regression: Piecewise Linear-Linear-Linear

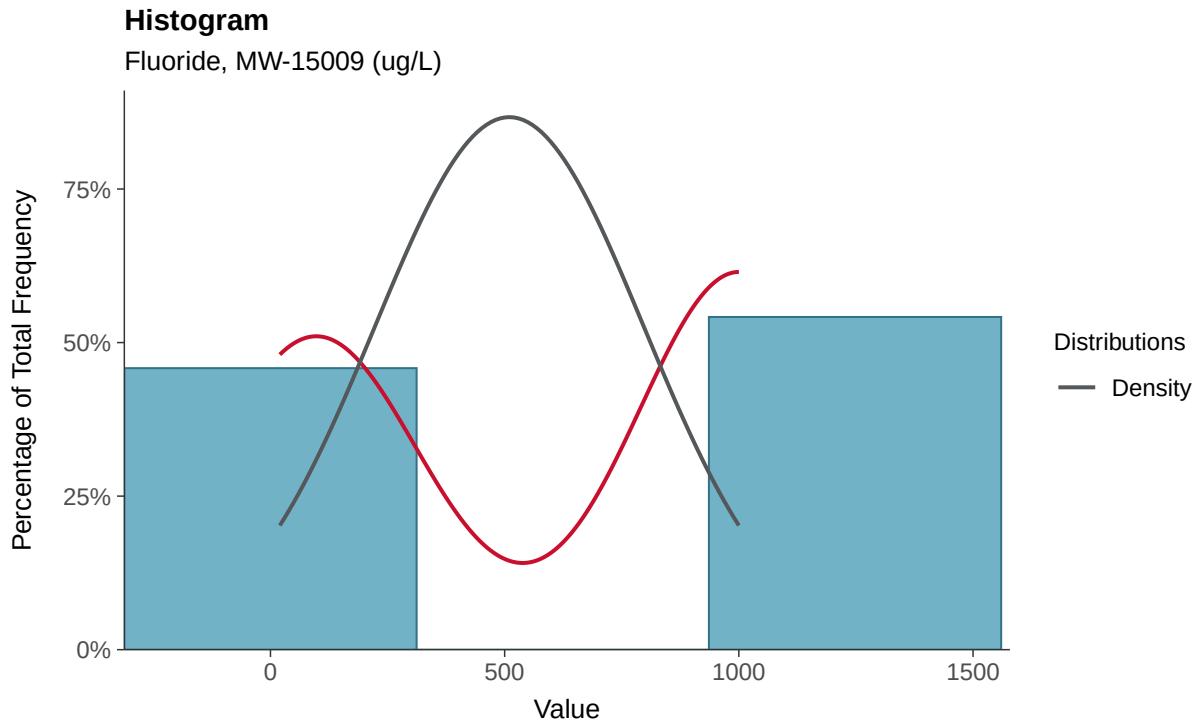
Cobalt, MW-15009 (ug/L)



Appendix IV: Fluoride, MW-15009

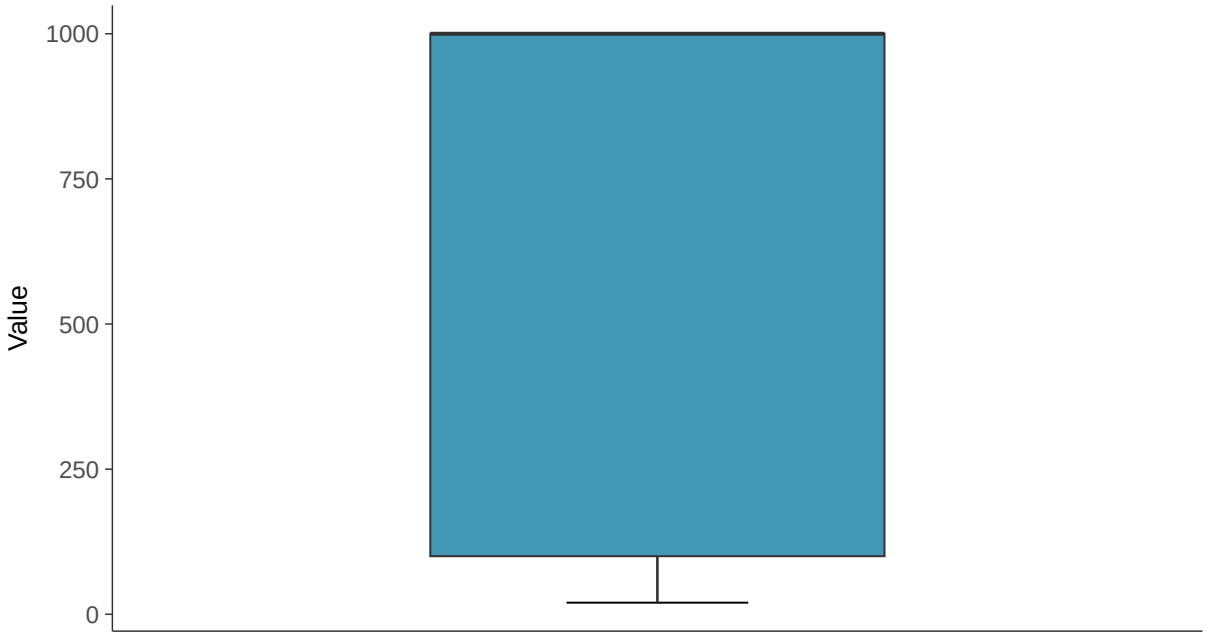
ID: 01_2_114





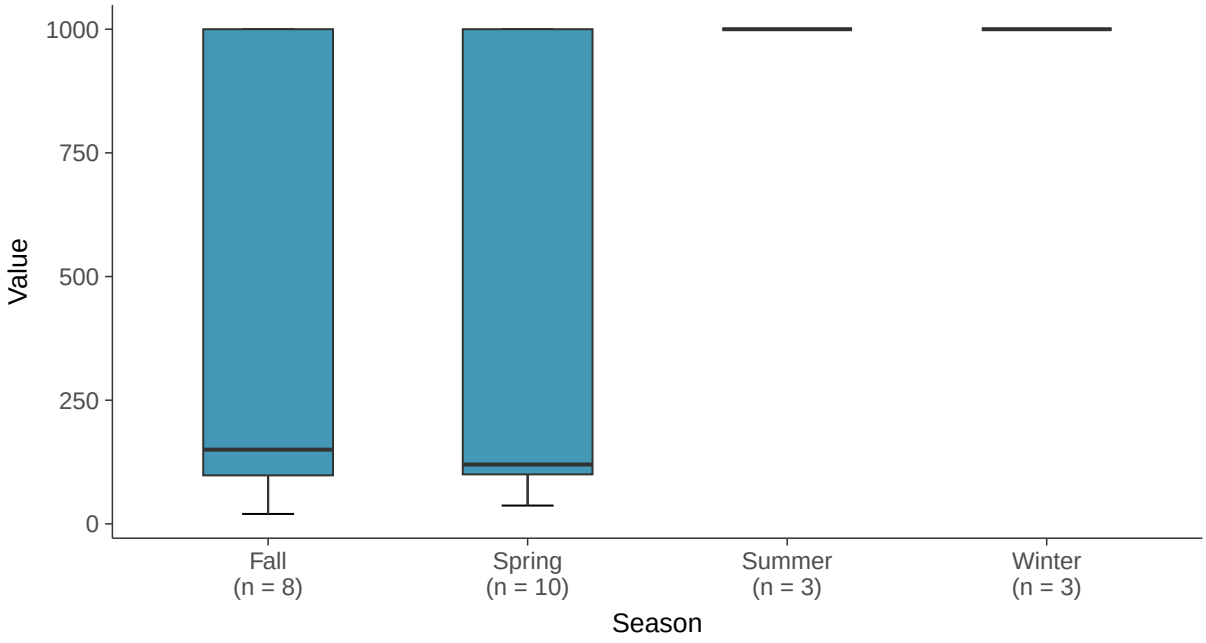
Boxplot

Fluoride, MW-15009 (ug/L)



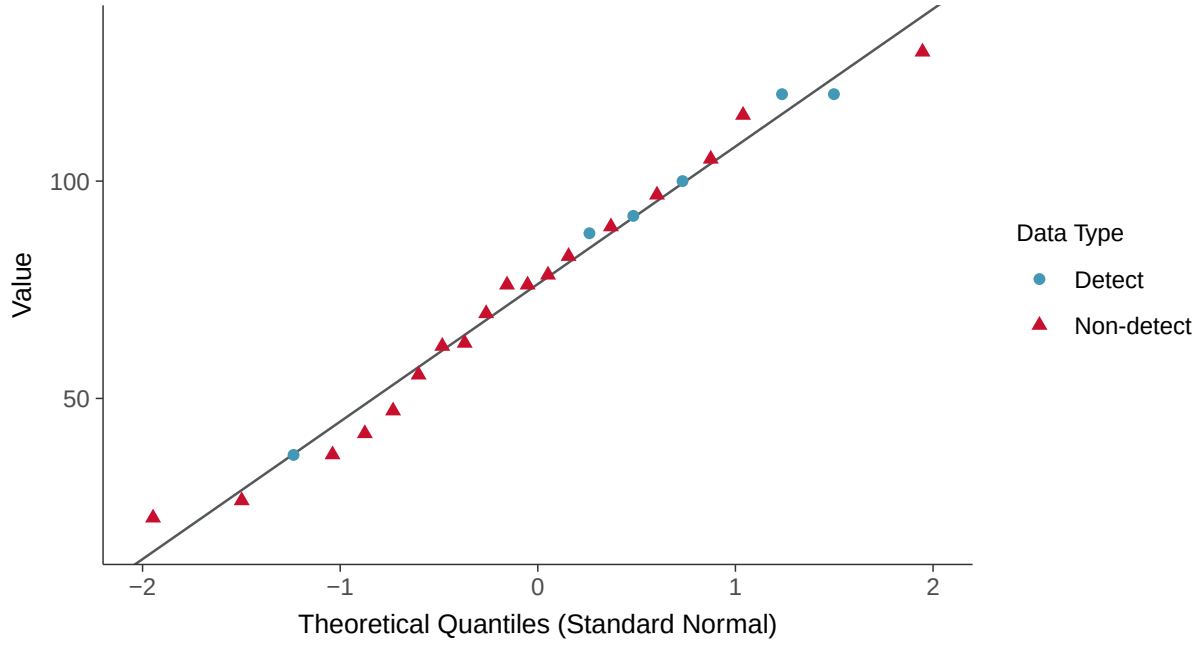
Boxplot by Season

Fluoride, MW-15009 (ug/L)



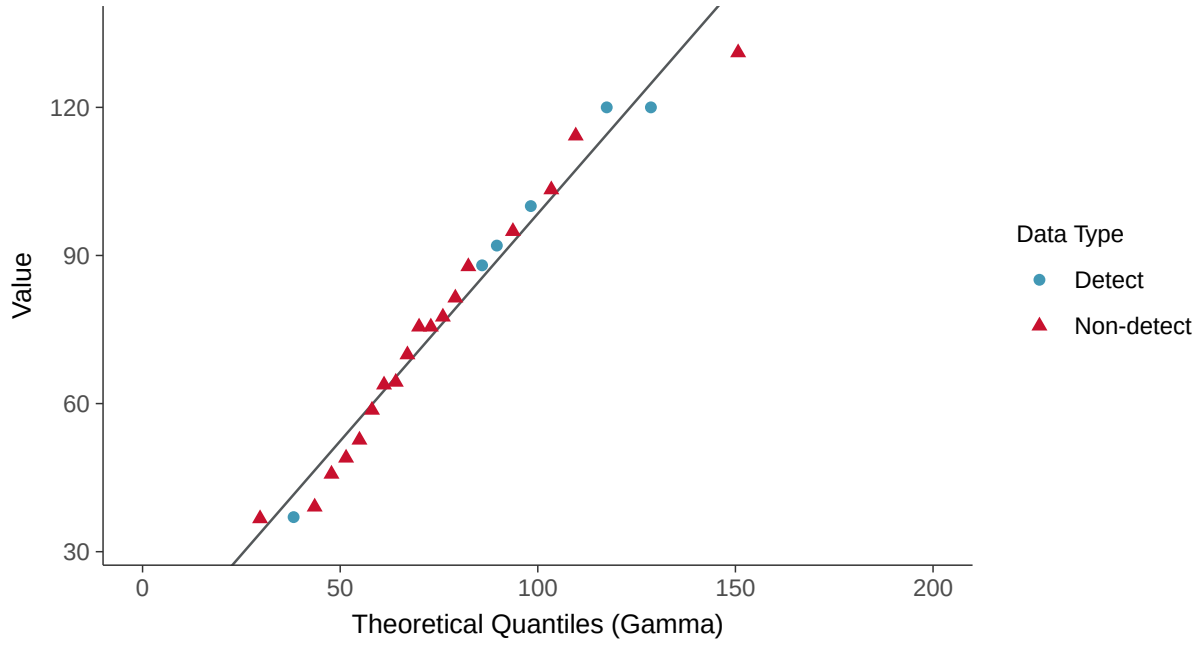
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15009 (ug/L)



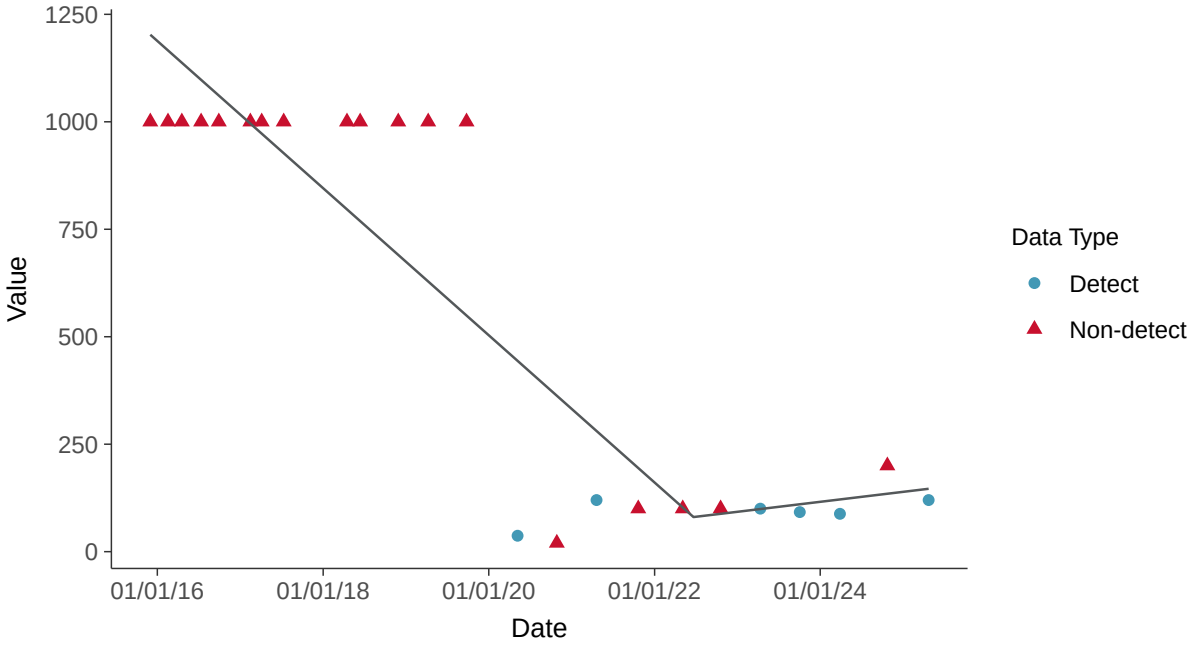
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15009 (ug/L)



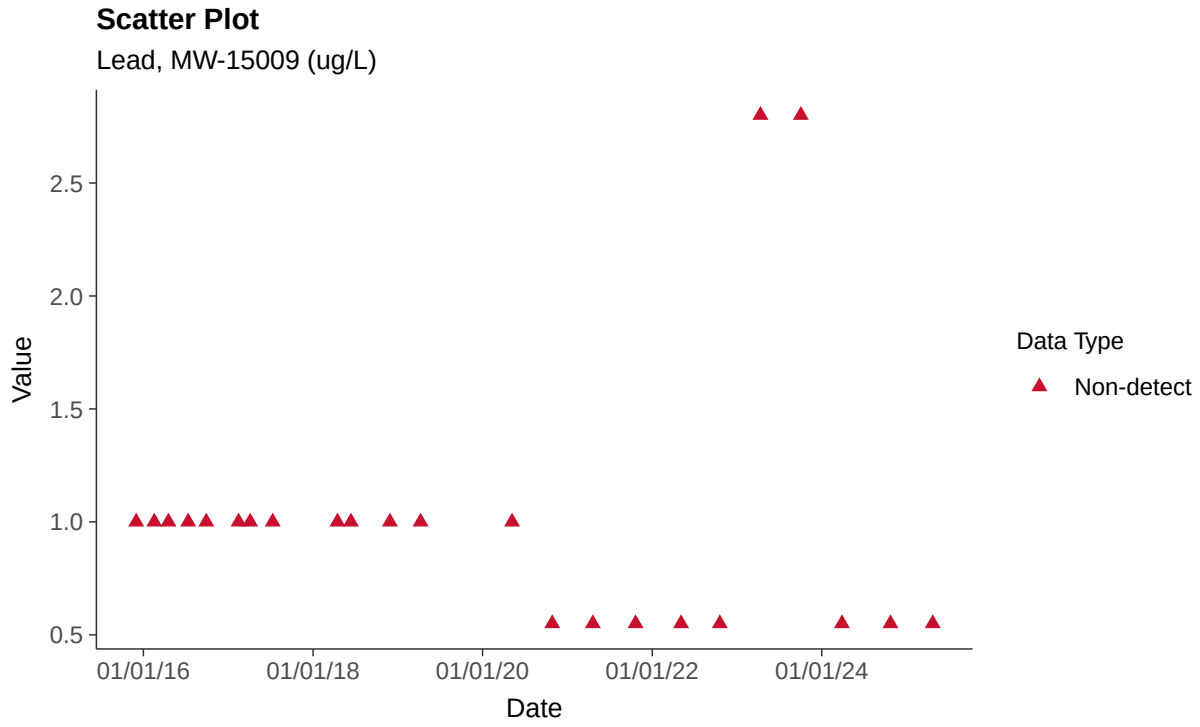
Trend Regression: Piecewise Linear-Linear

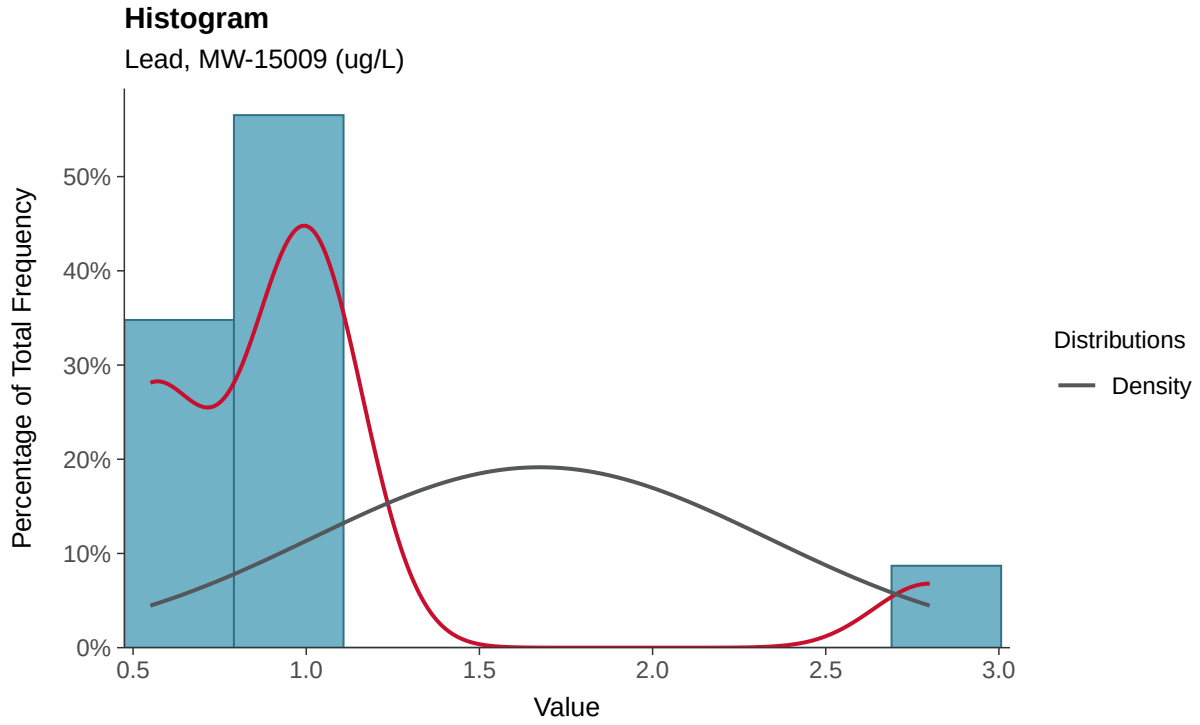
Fluoride, MW-15009 (ug/L)



Appendix IV: Lead, MW-15009

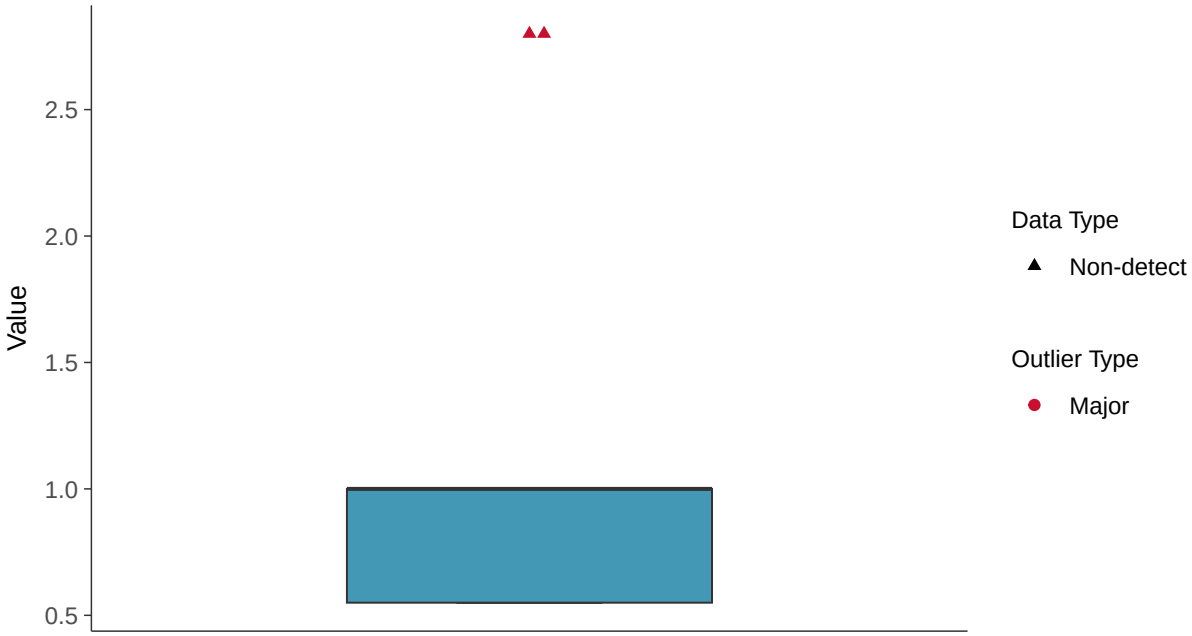
ID: 01_2_116





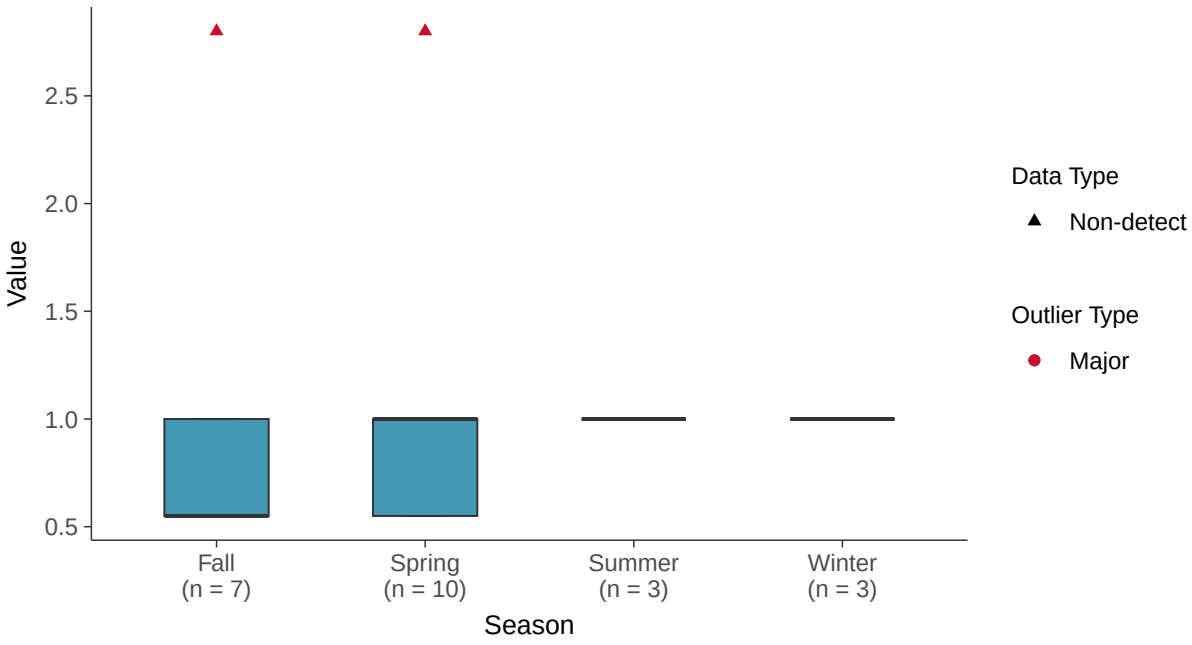
Boxplot

Lead, MW-15009 (ug/L)



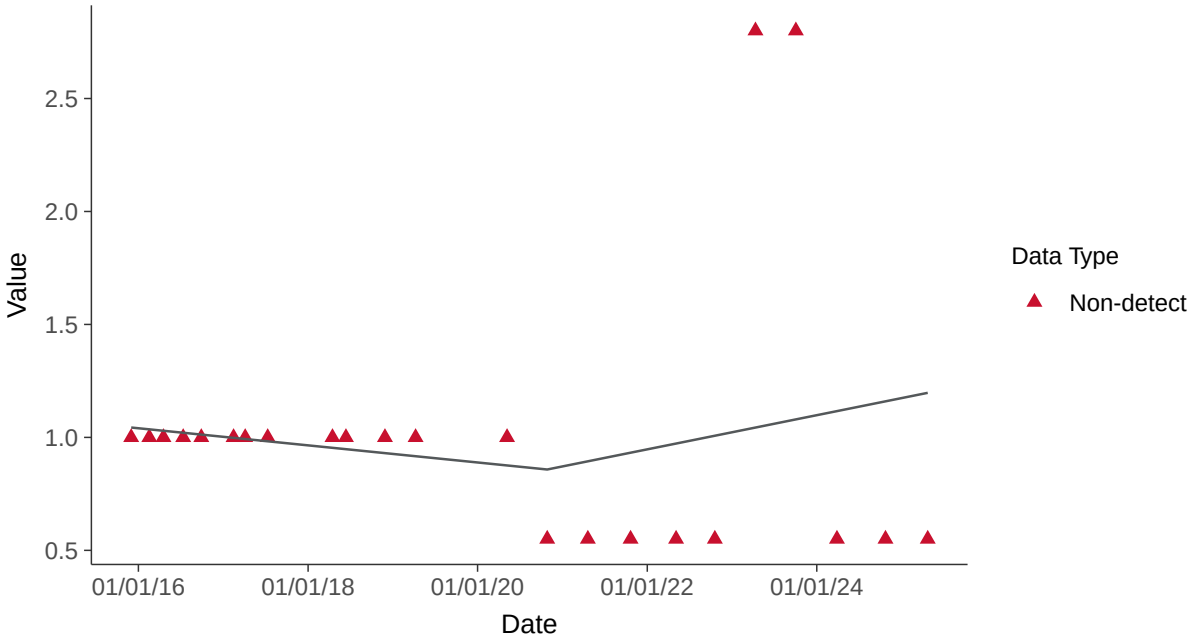
Boxplot by Season

Lead, MW-15009 (ug/L)



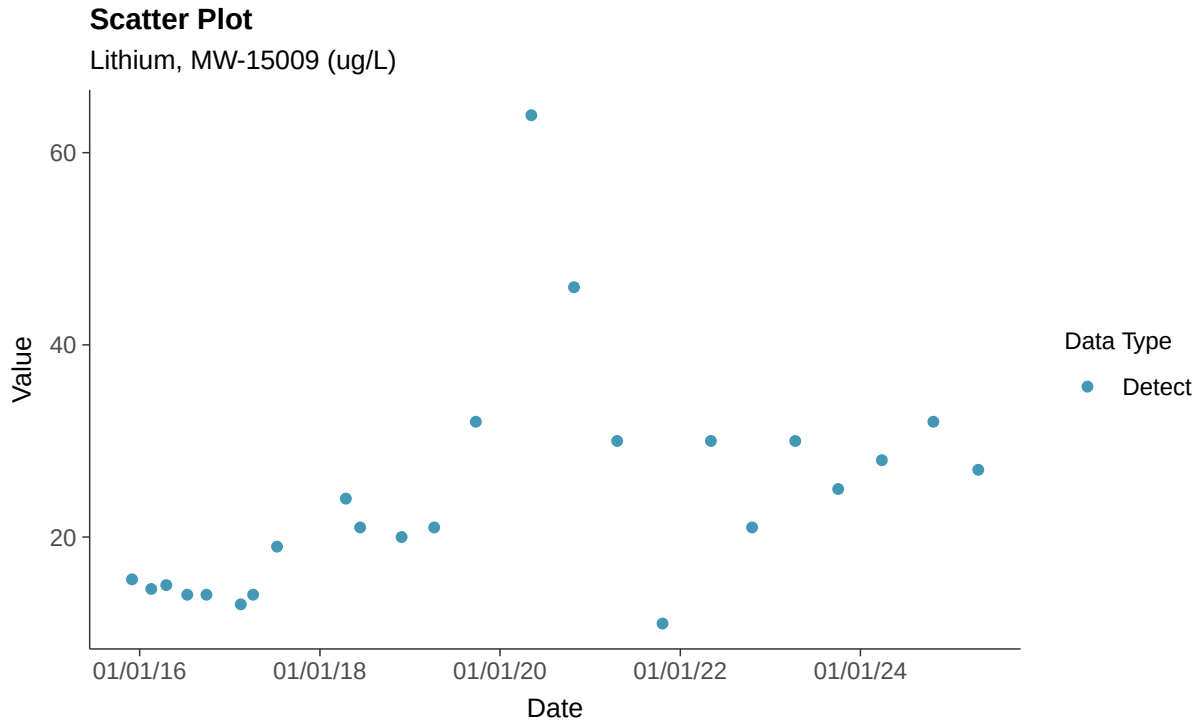
Trend Regression: Piecewise Linear-Linear

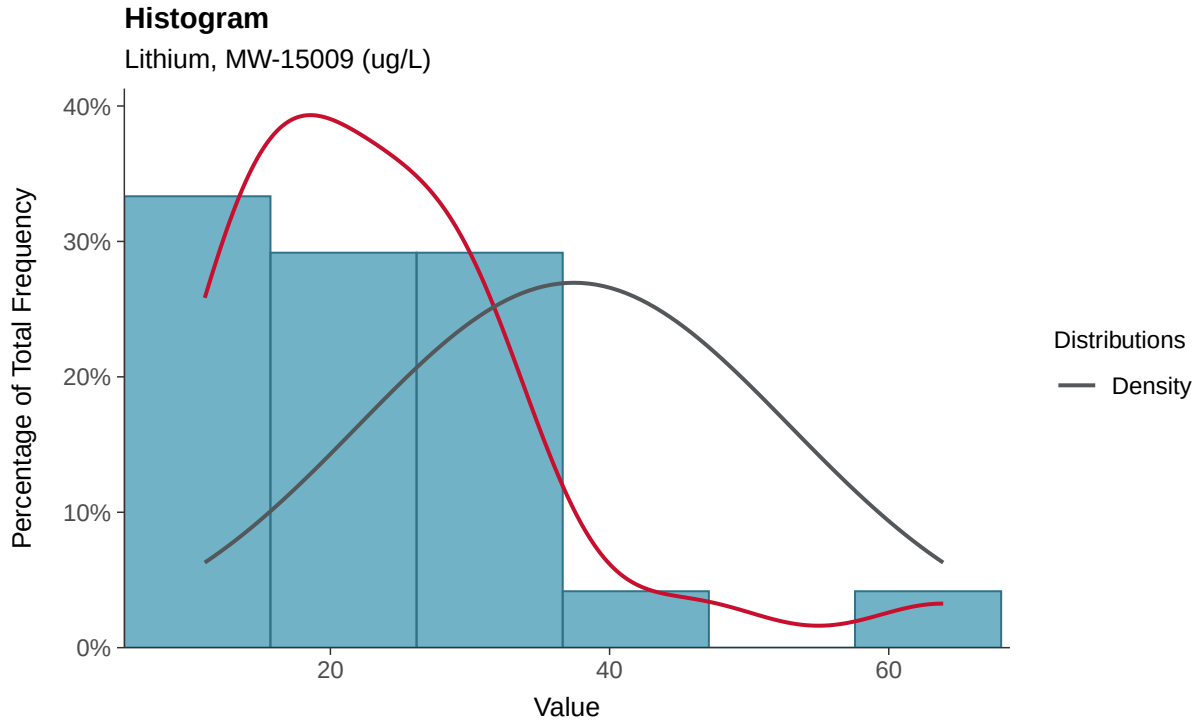
Lead, MW-15009 (ug/L)



Appendix IV: Lithium, MW-15009

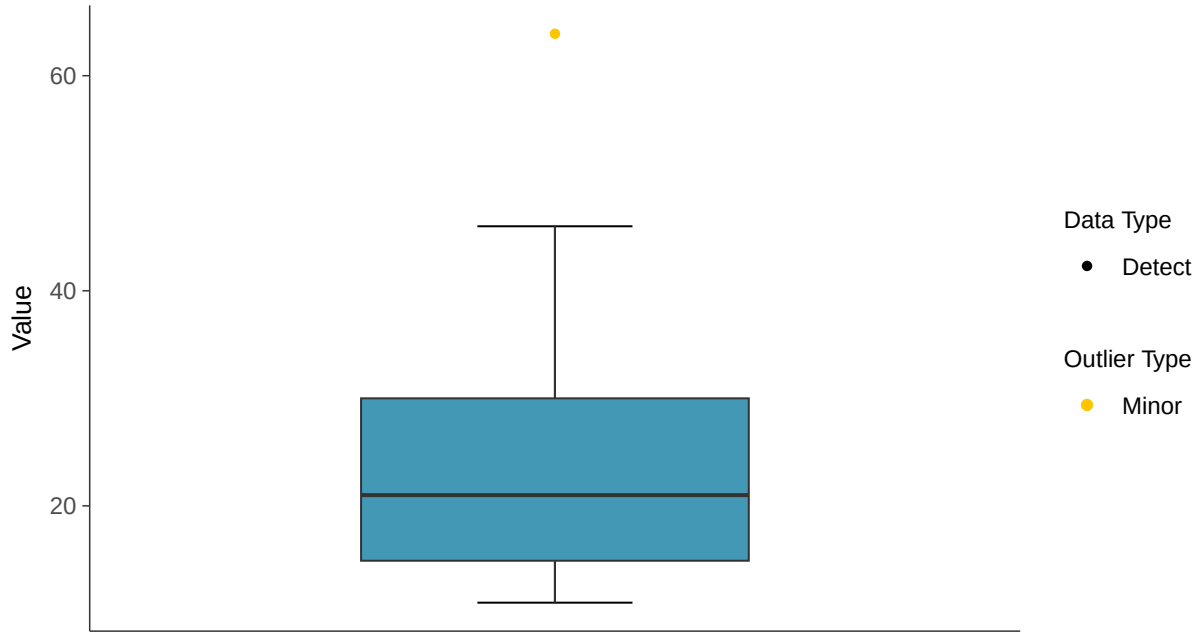
ID: 01_2_117





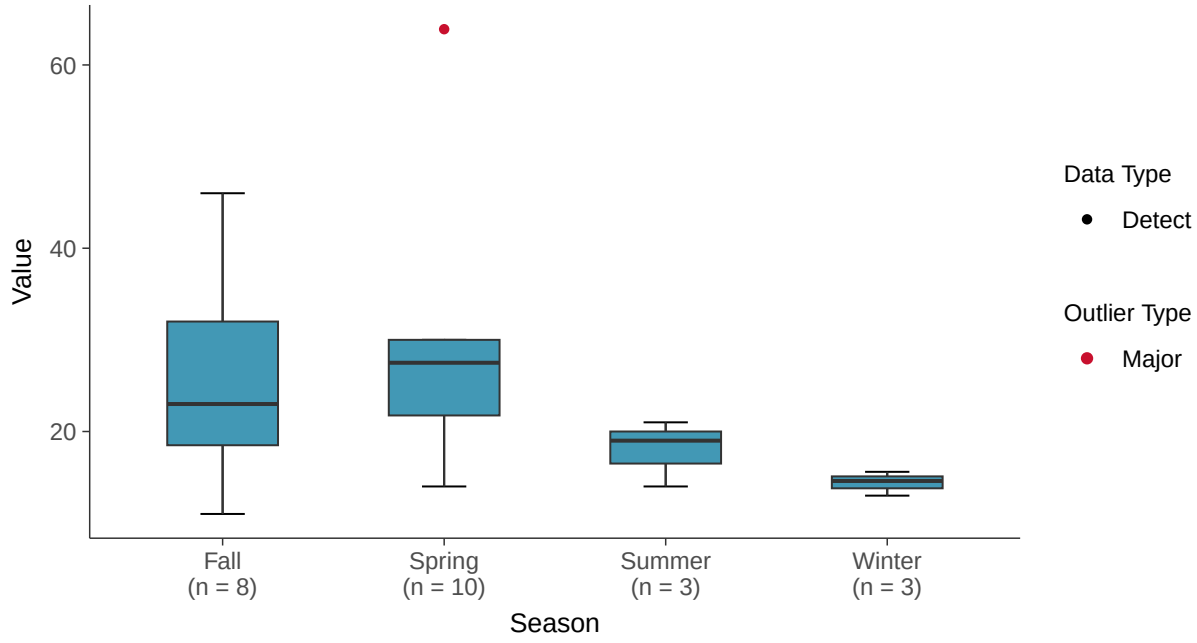
Boxplot

Lithium, MW-15009 (ug/L)



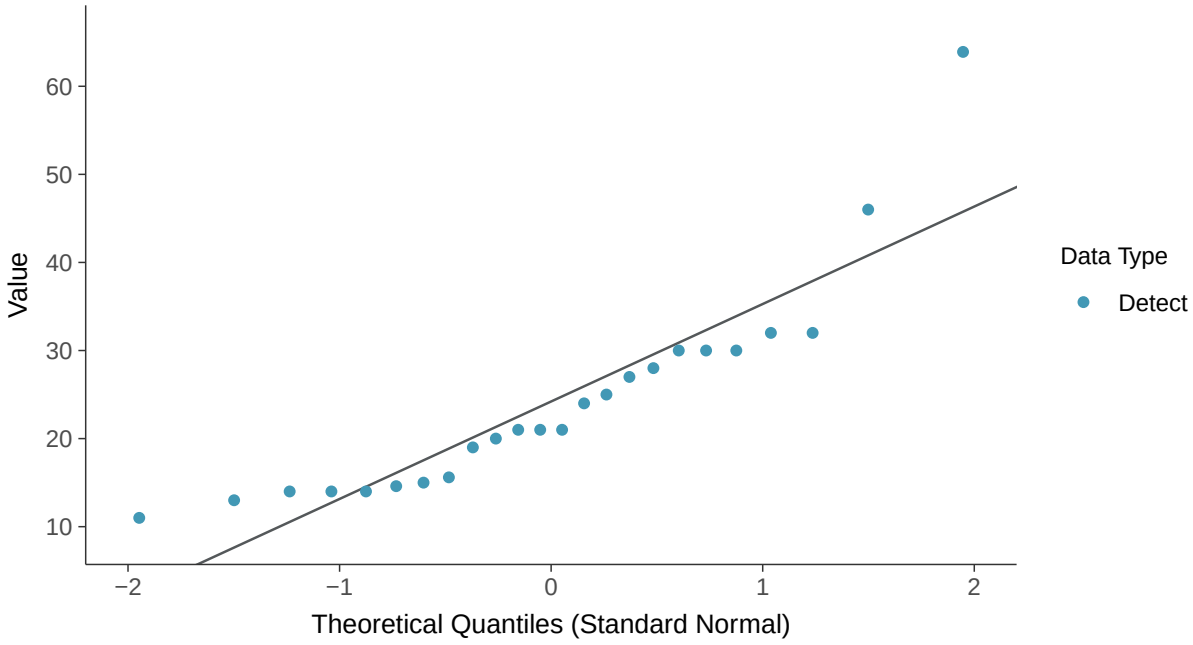
Boxplot by Season

Lithium, MW-15009 (ug/L)



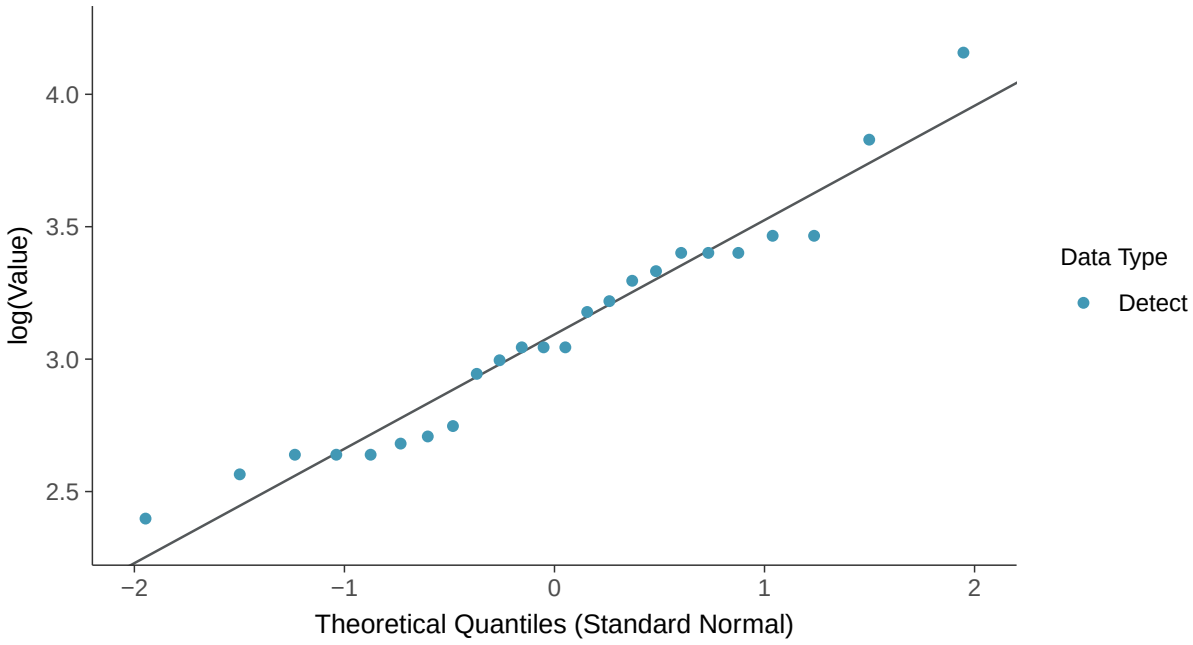
Normal Q-Q plot

Lithium, MW-15009 (ug/L)



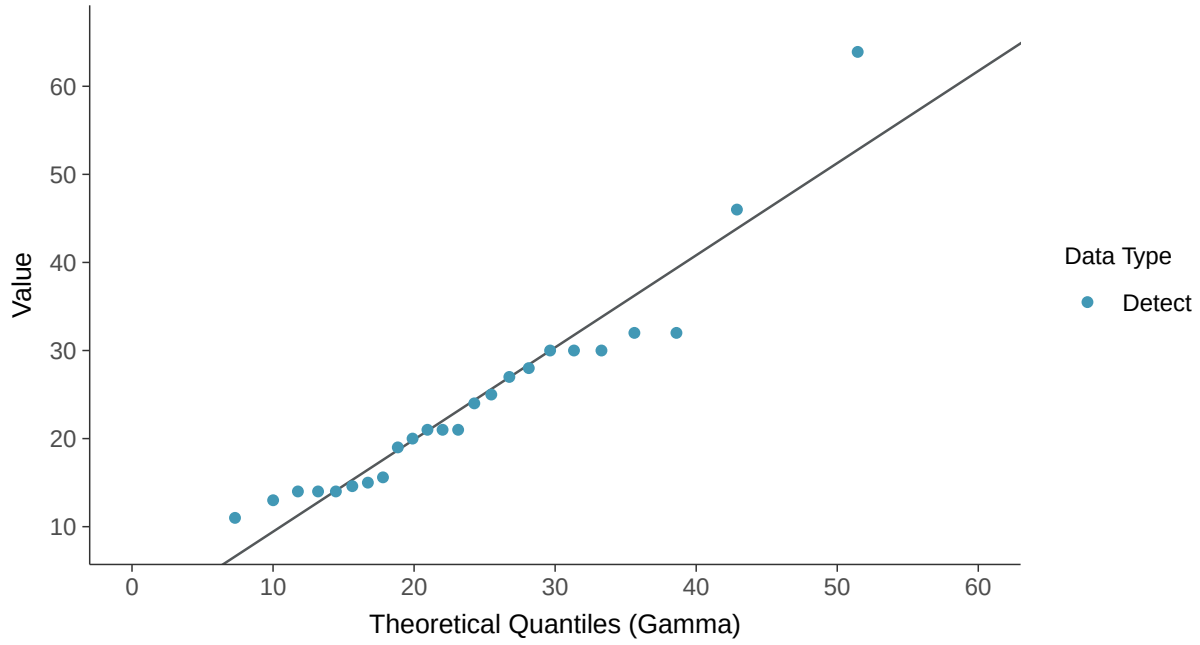
Lognormal Q-Q plot

Lithium, MW-15009 (ug/L)



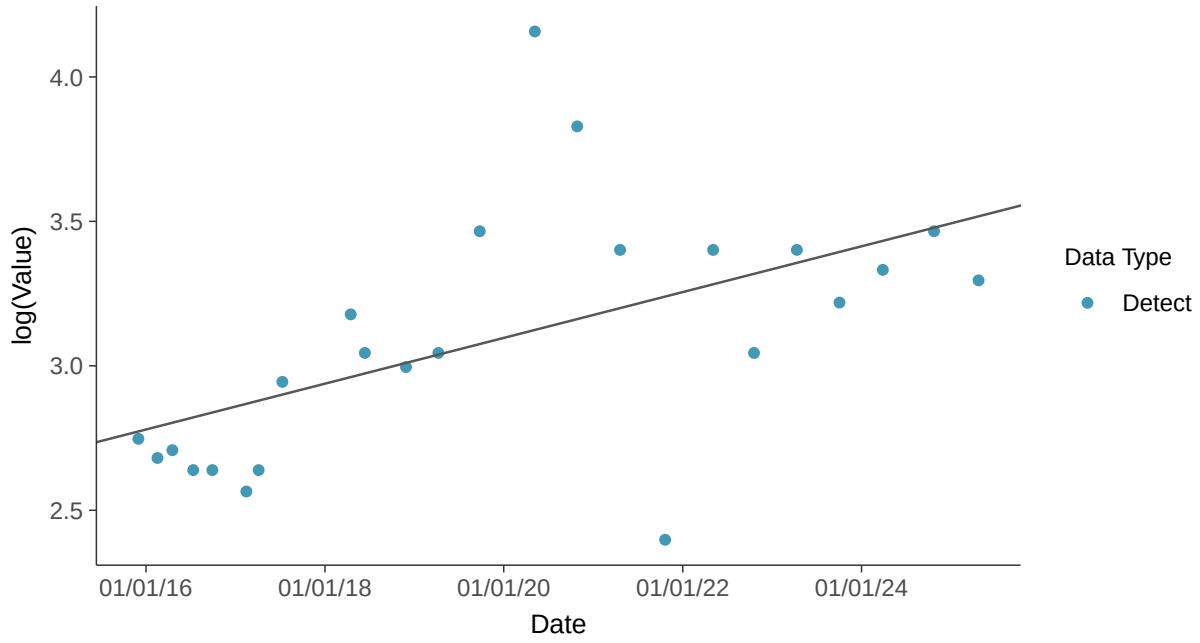
Gamma Q-Q plot

Lithium, MW-15009 (ug/L)



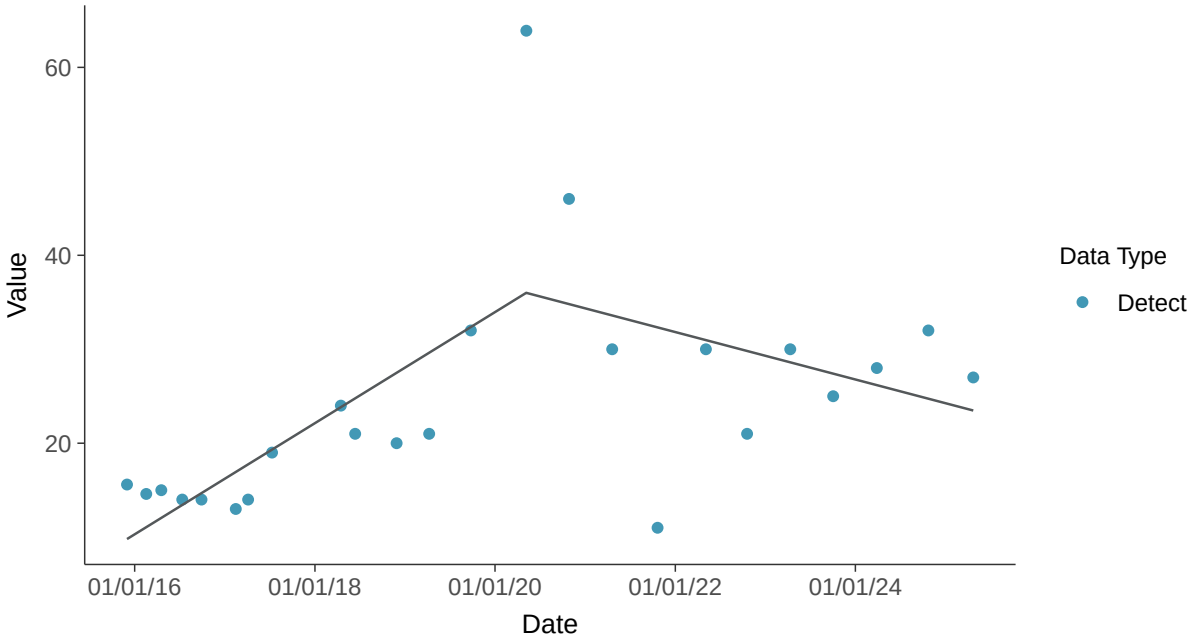
Trend Regression: Lognormal MLE

Lithium, MW-15009 (ug/L)



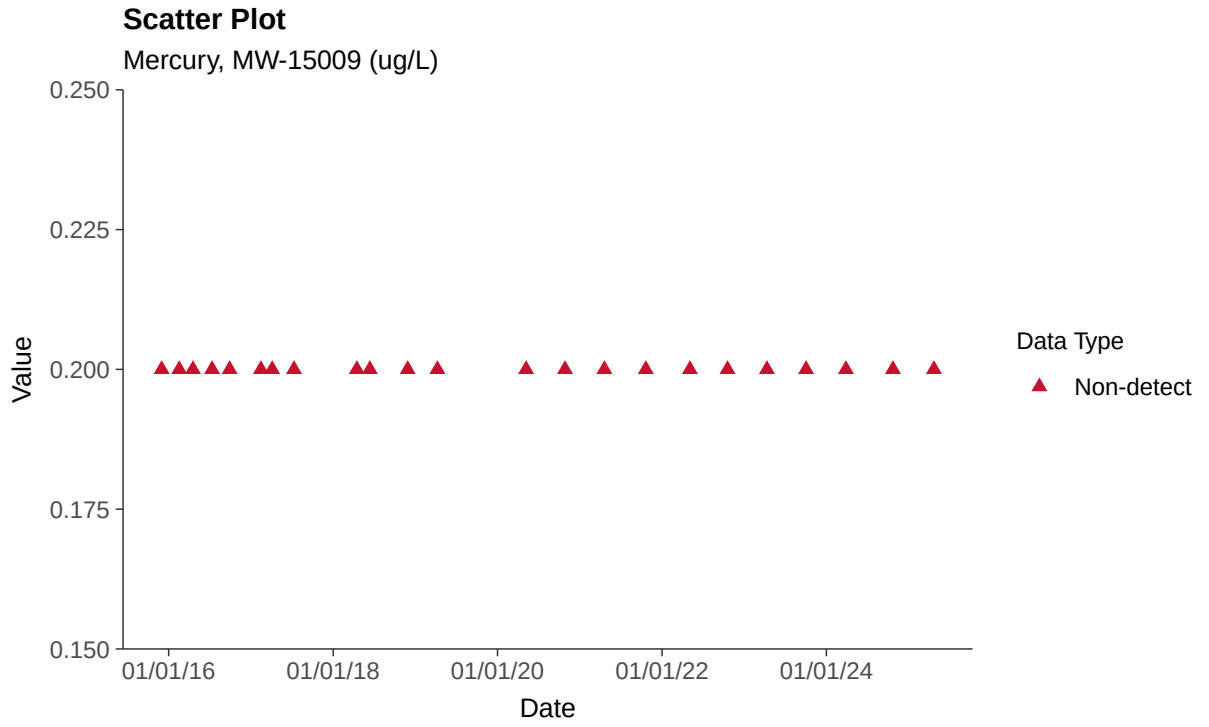
Trend Regression: Piecewise Linear-Linear

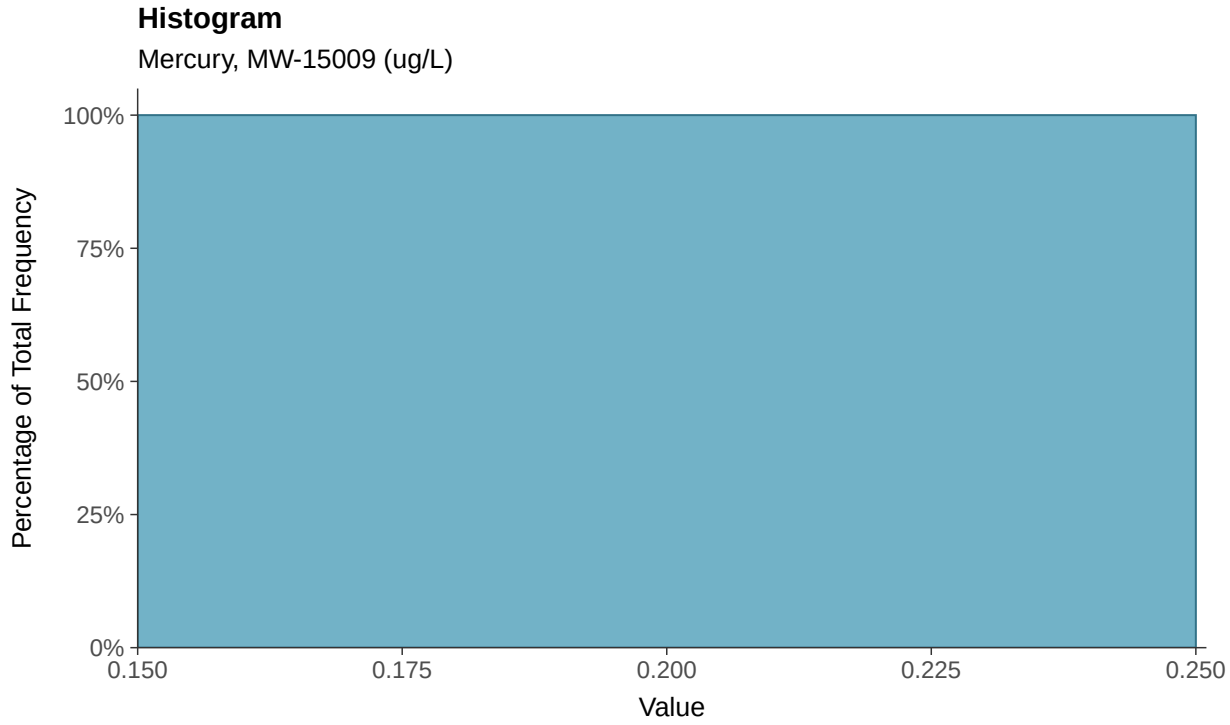
Lithium, MW-15009 (ug/L)



Appendix IV: Mercury, MW-15009

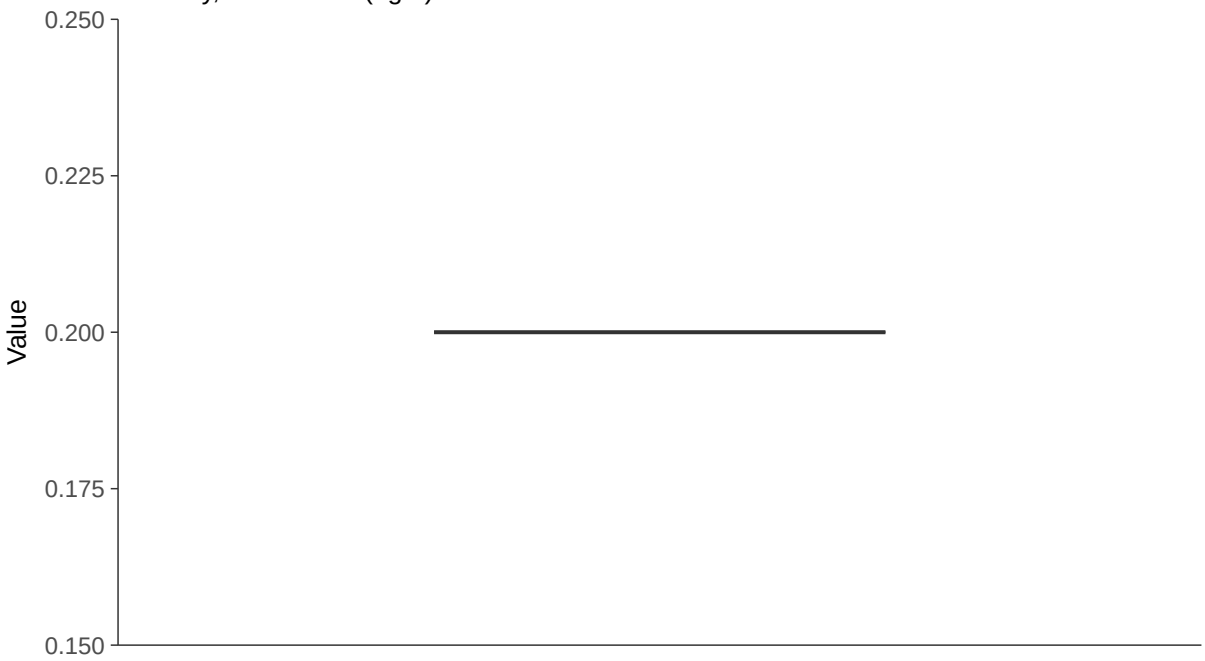
ID: 01_2_118





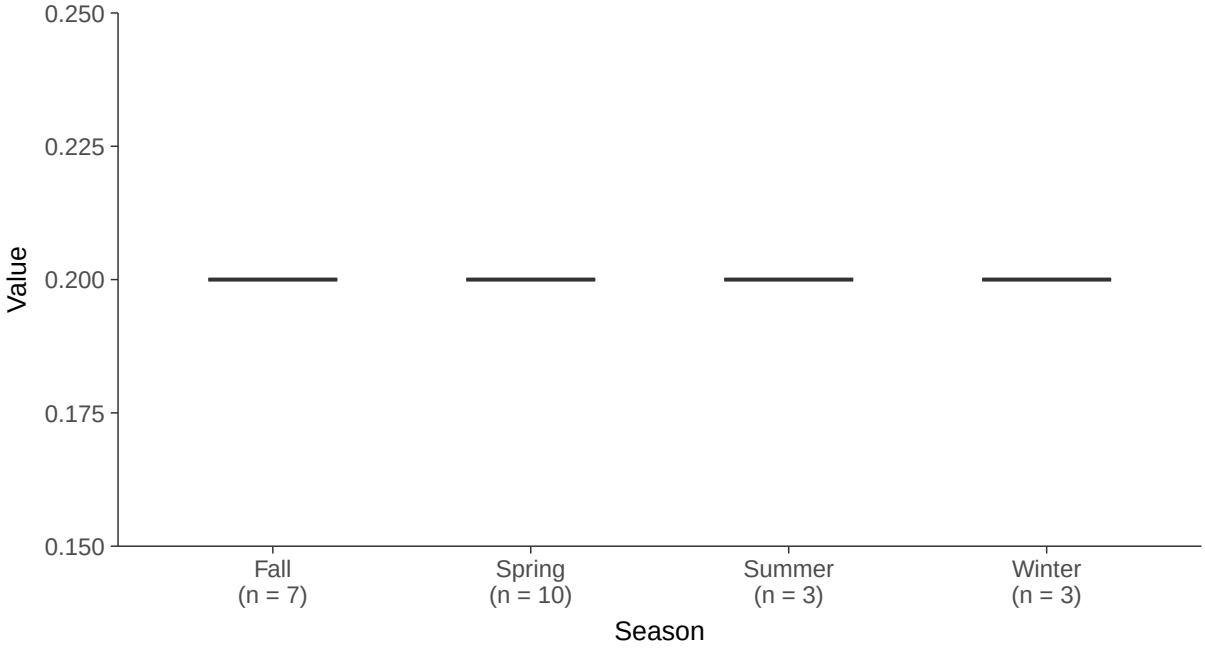
Boxplot

Mercury, MW-15009 (ug/L)



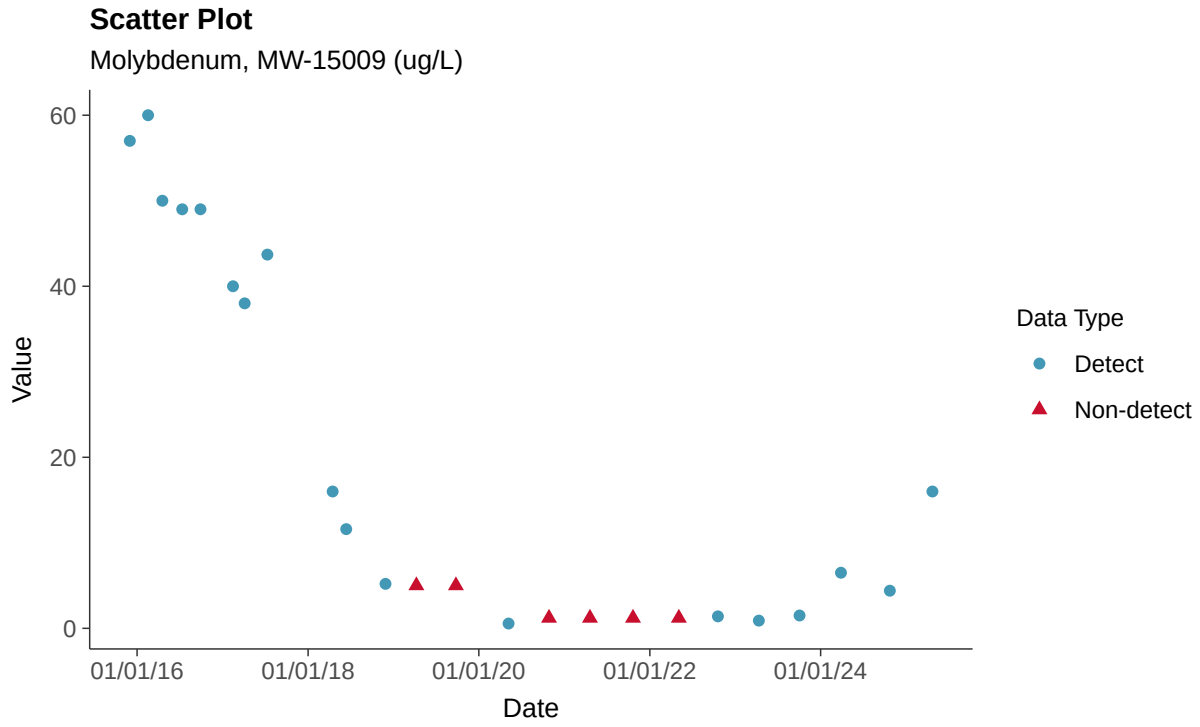
Boxplot by Season

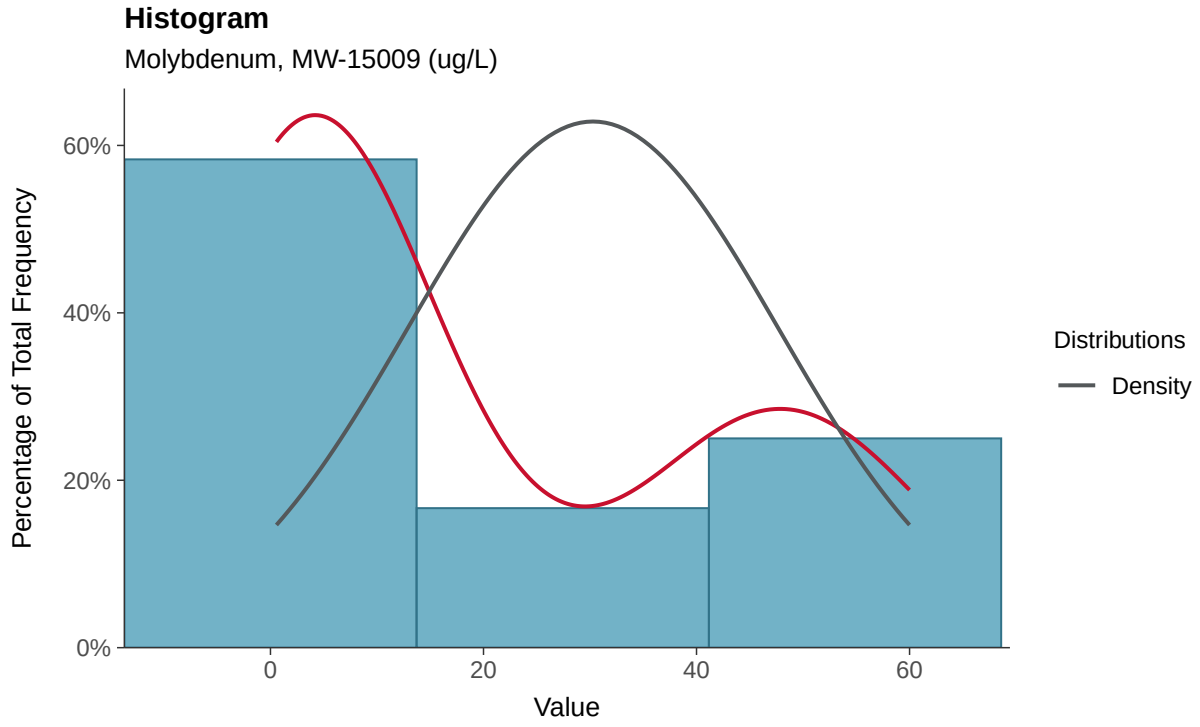
Mercury, MW-15009 (ug/L)



Appendix IV: Molybdenum, MW-15009

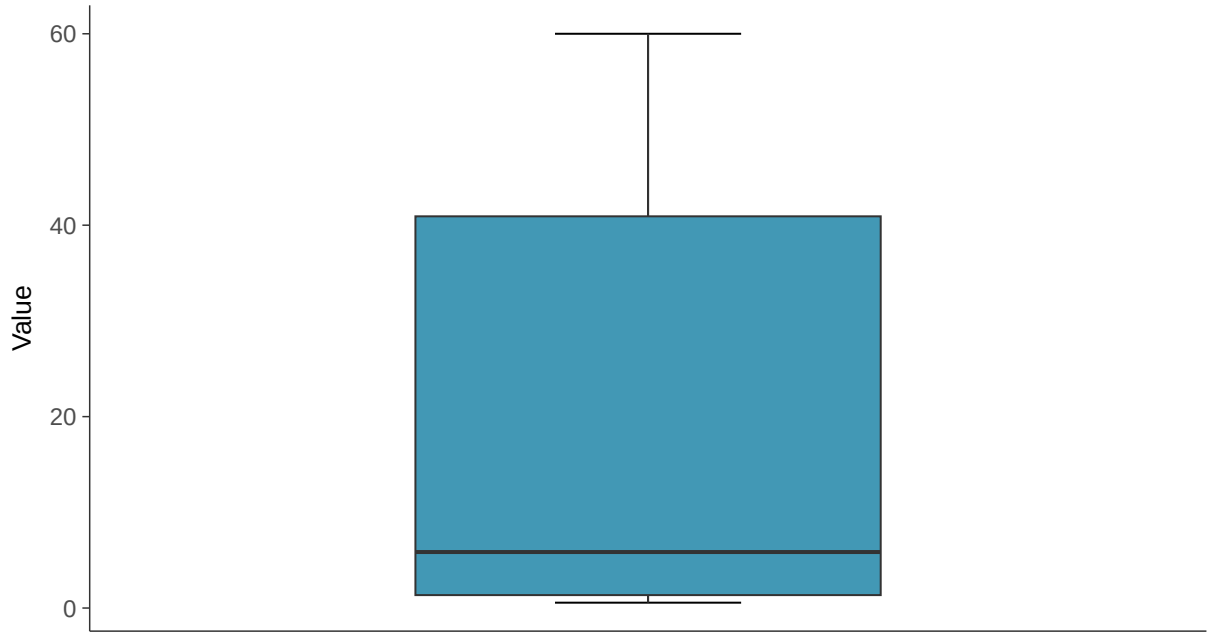
ID: 01_2_119





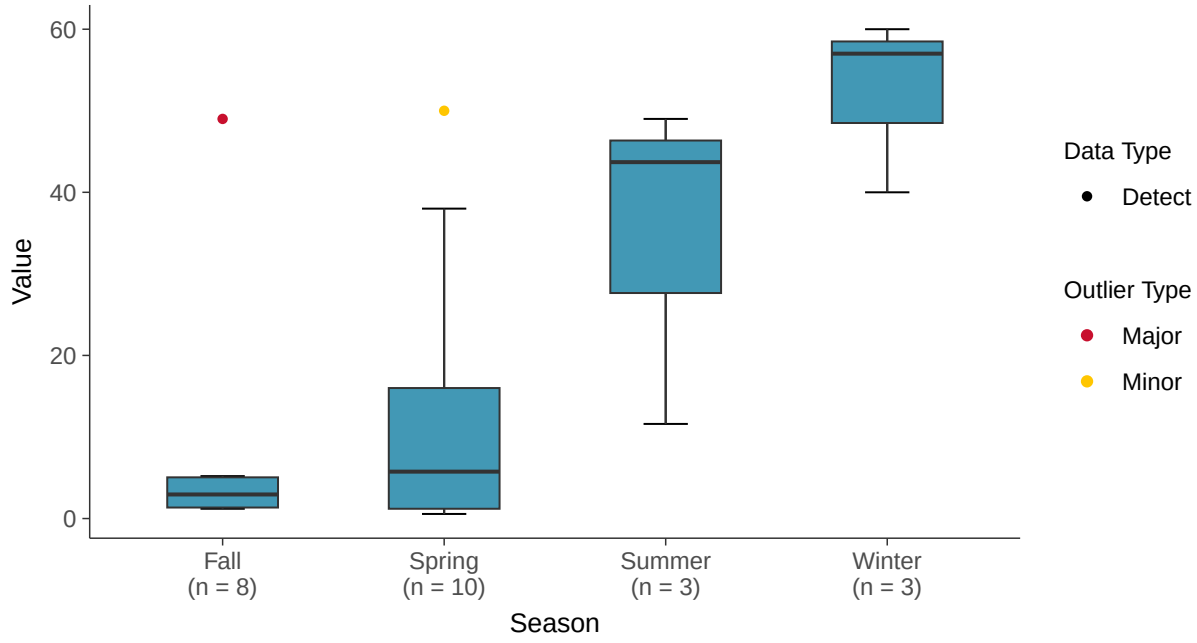
Boxplot

Molybdenum, MW-15009 (ug/L)



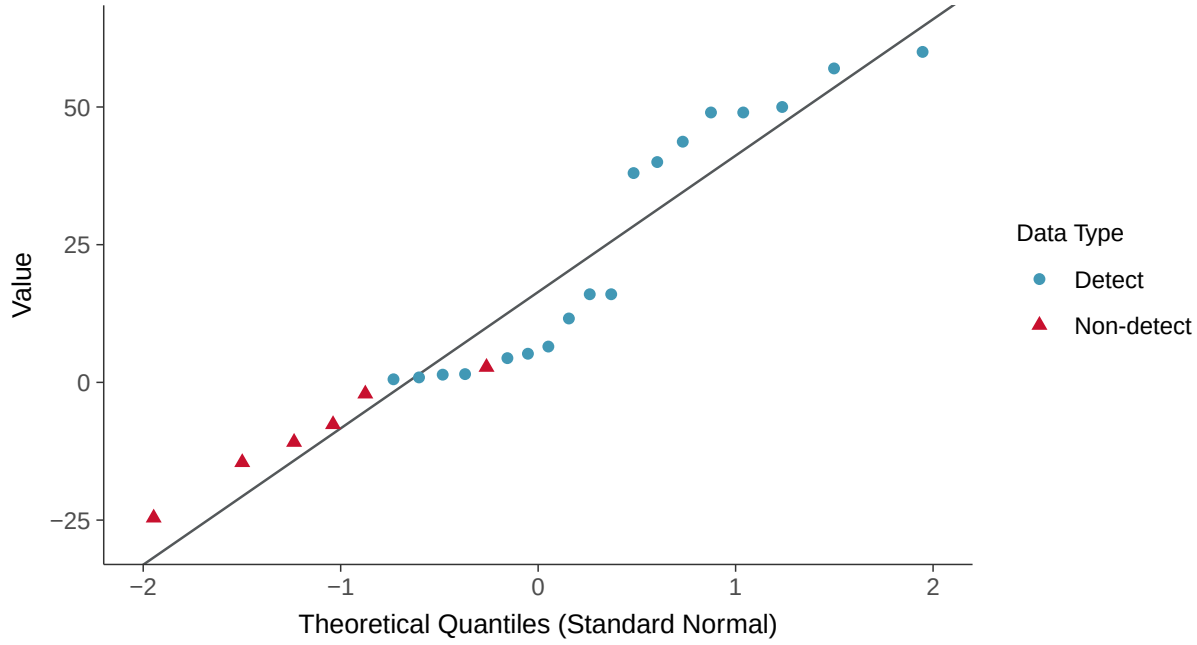
Boxplot by Season

Molybdenum, MW-15009 (ug/L)



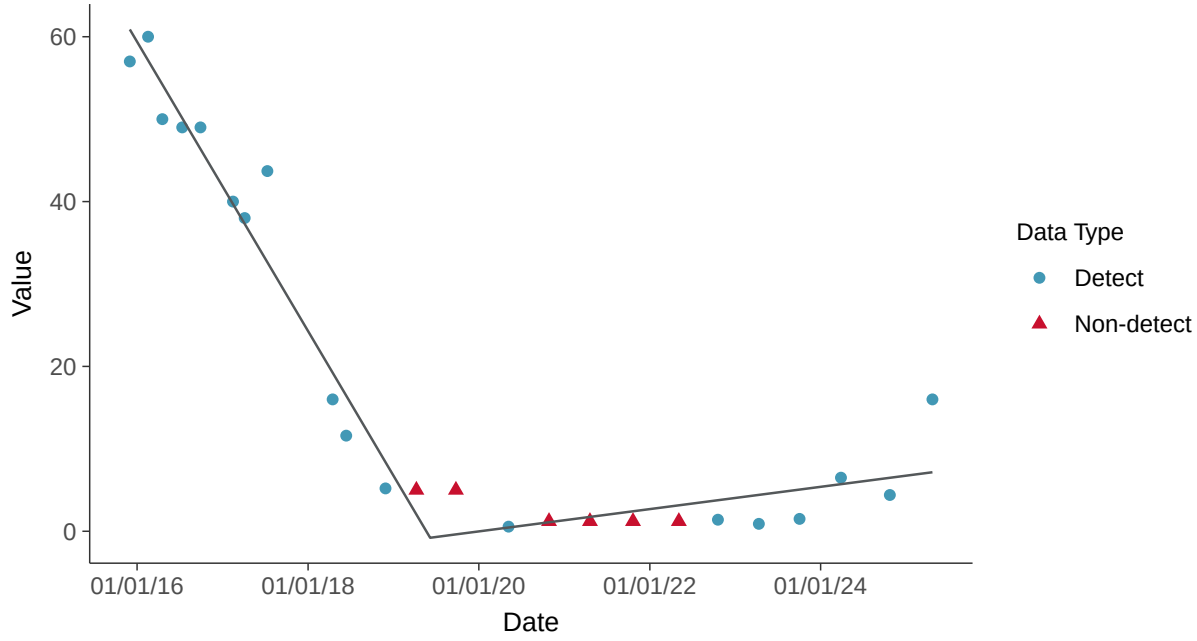
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15009 (ug/L)



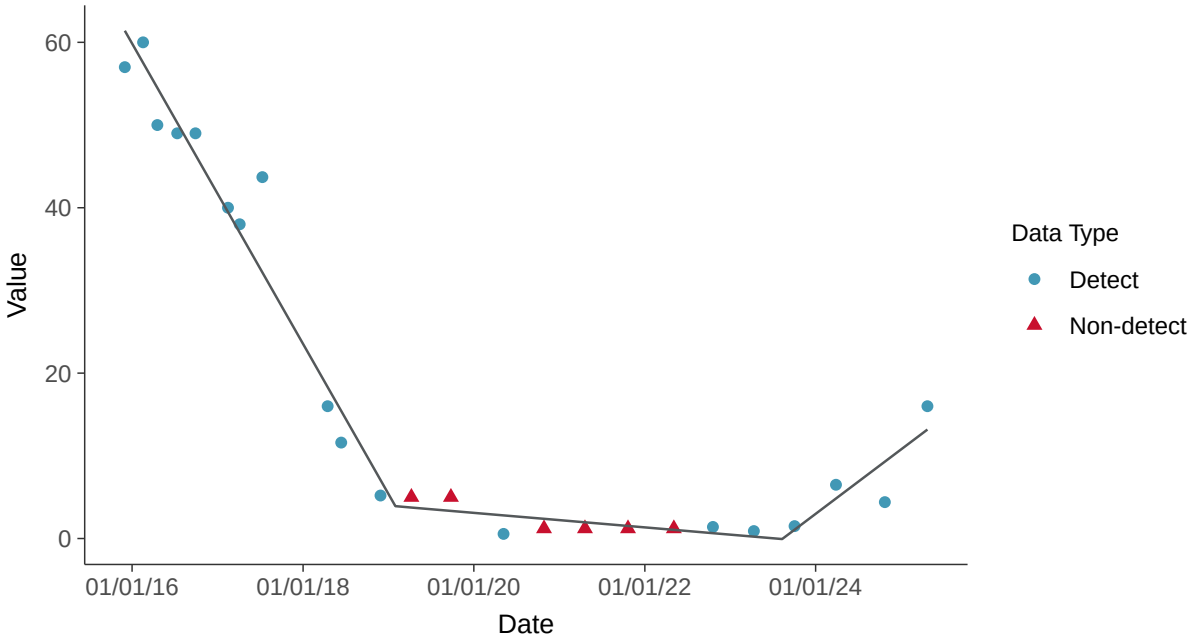
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-15009 (ug/L)



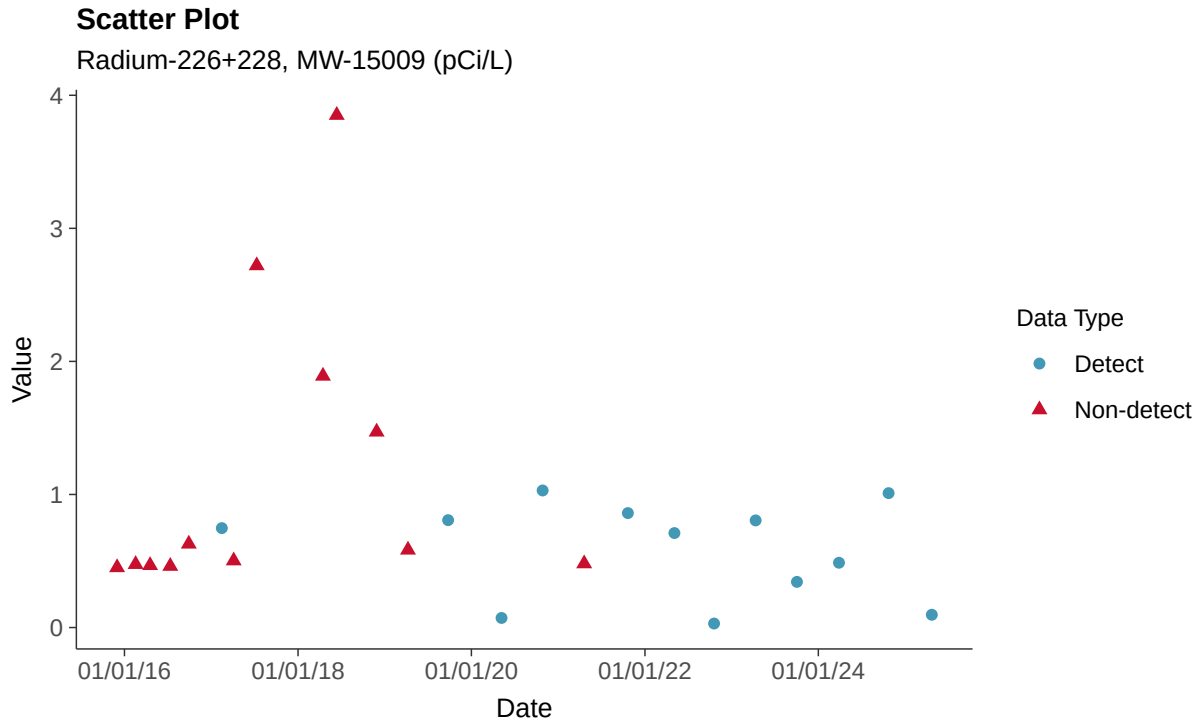
Trend Regression: Piecewise Linear-Linear-Linear

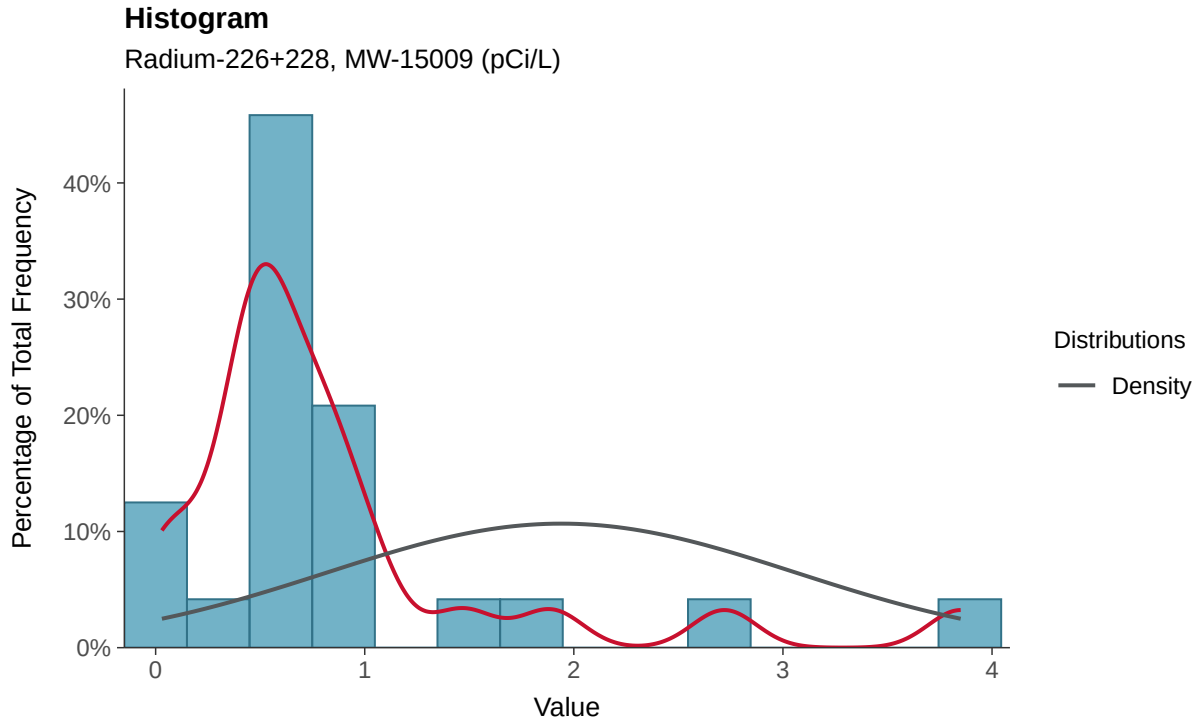
Molybdenum, MW-15009 (ug/L)



Appendix IV: Radium-226+228, MW-15009

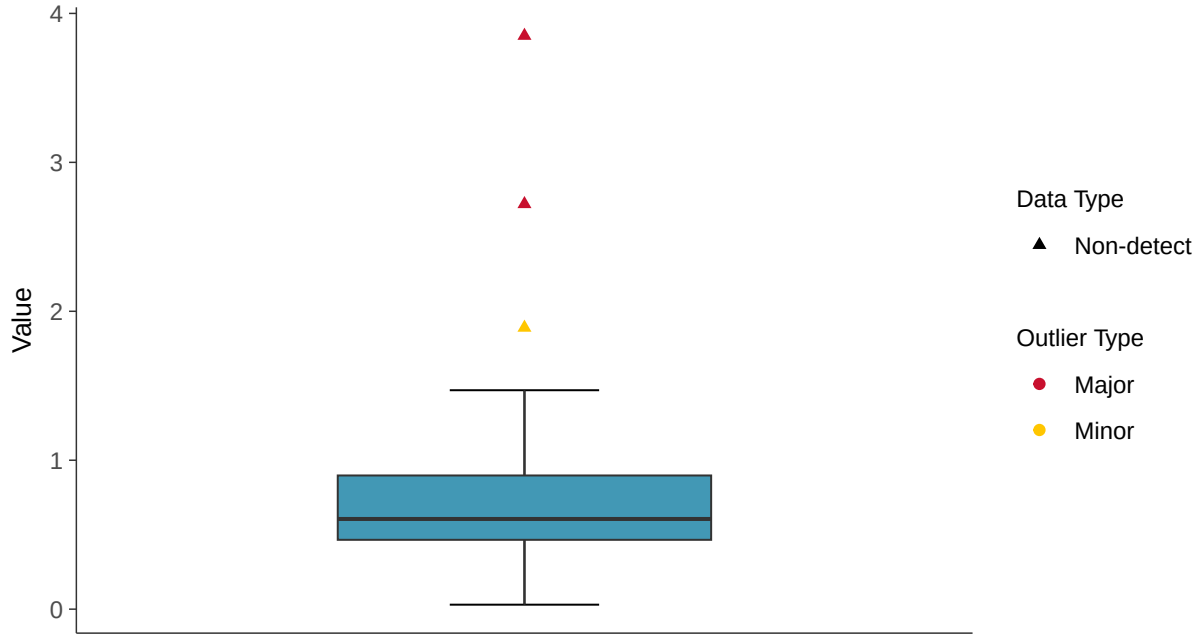
ID: 01_2_125





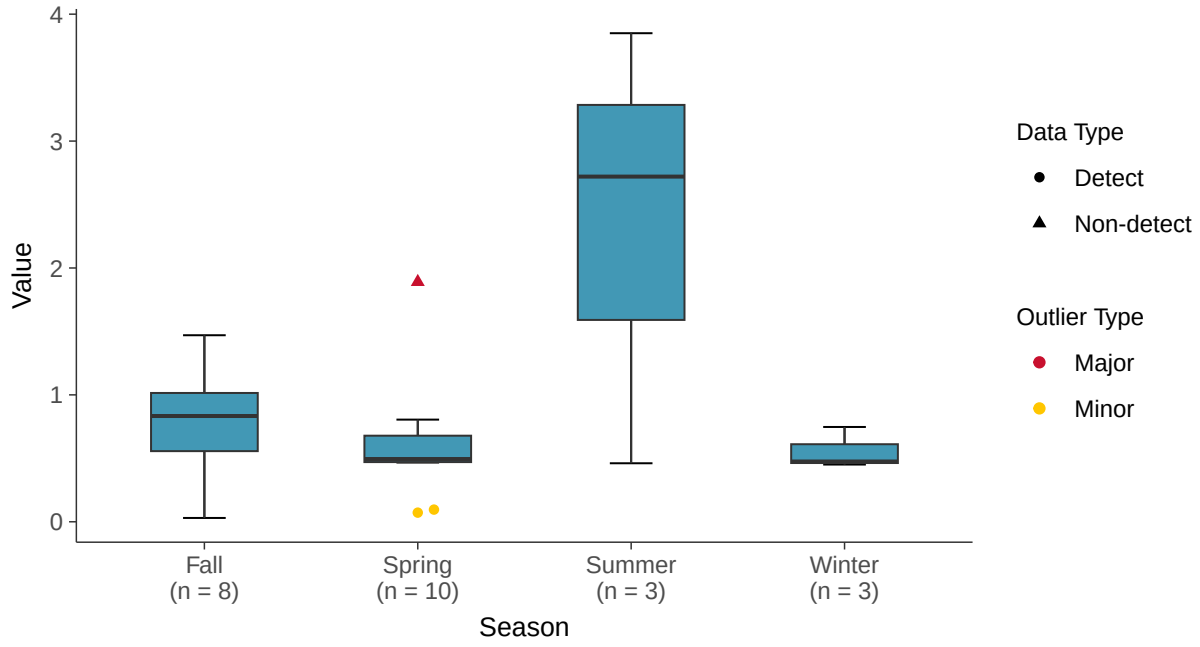
Boxplot

Radium-226+228, MW-15009 (pCi/L)



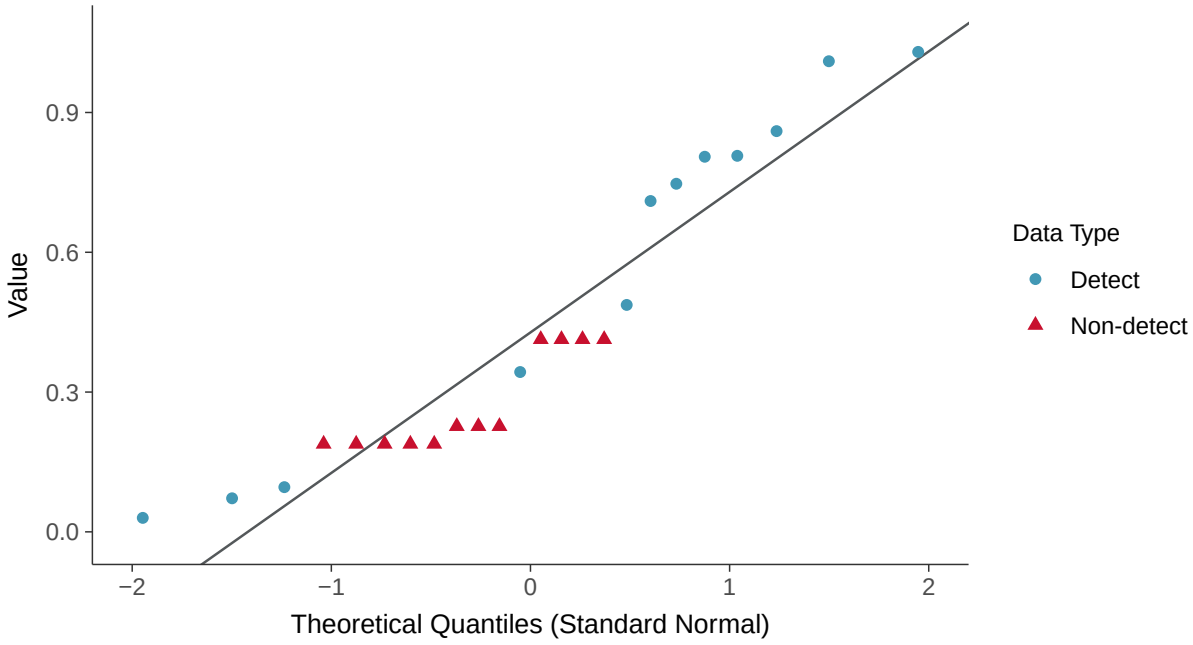
Boxplot by Season

Radium-226+228, MW-15009 (pCi/L)



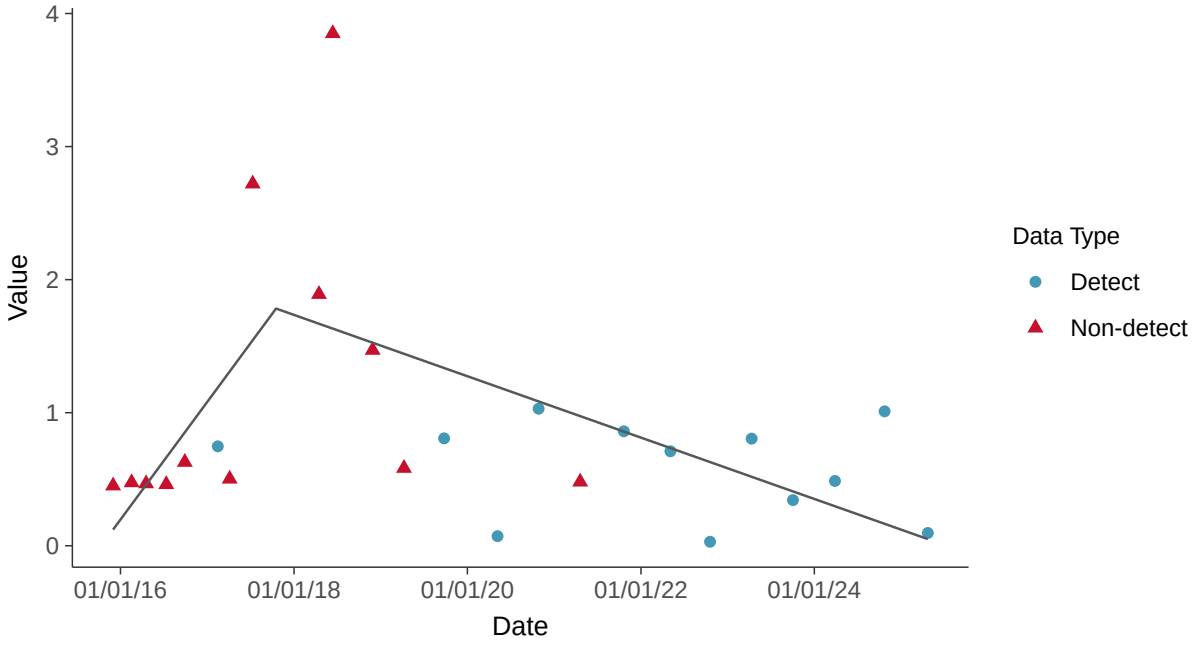
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15009 (pCi/L)



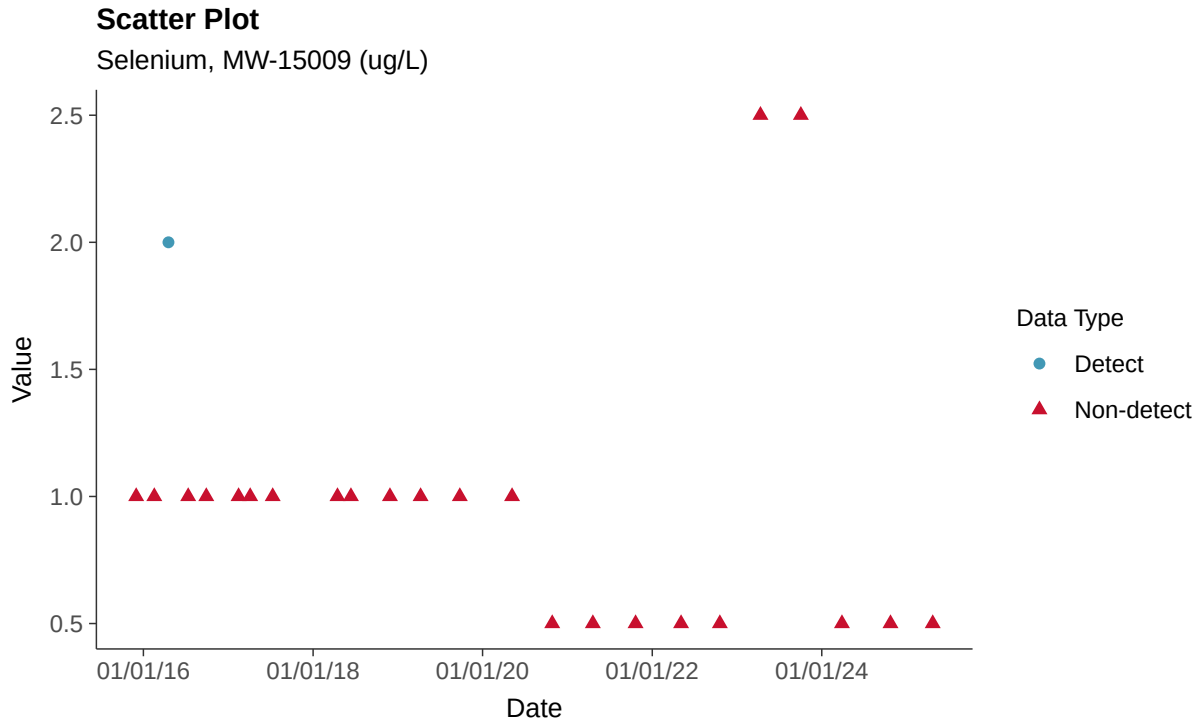
Trend Regression: Piecewise Linear-Linear

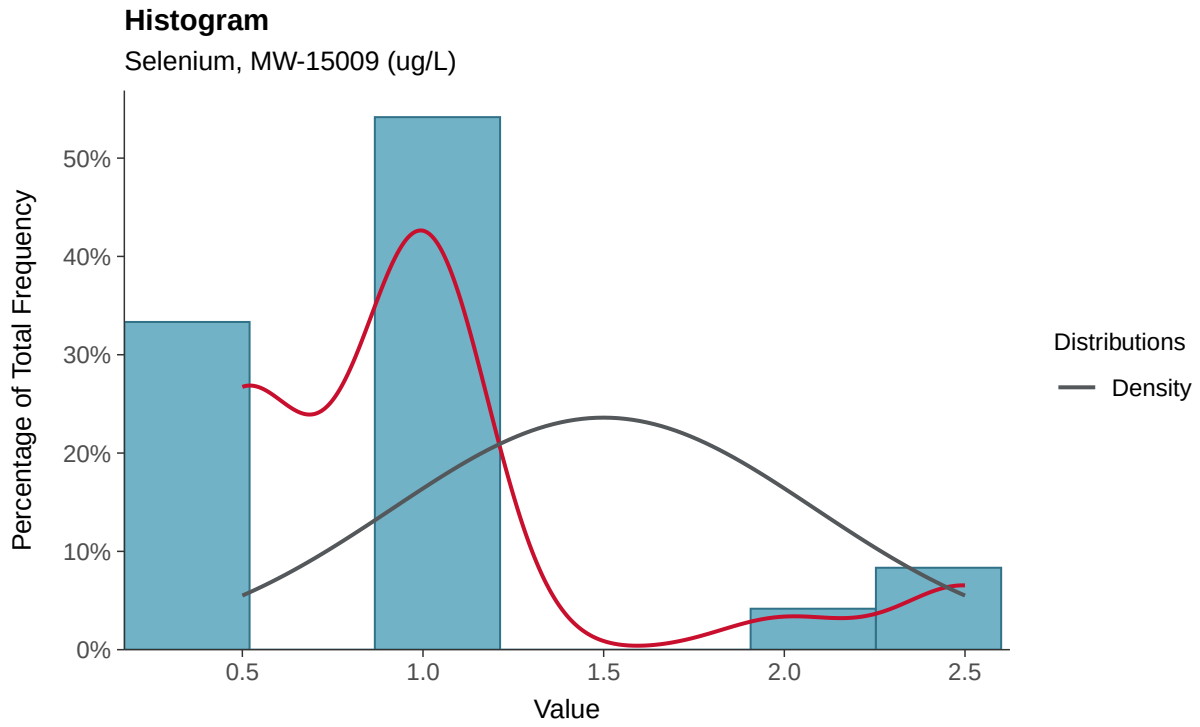
Radium-226+228, MW-15009 (pCi/L)



Appendix IV: Selenium, MW-15009

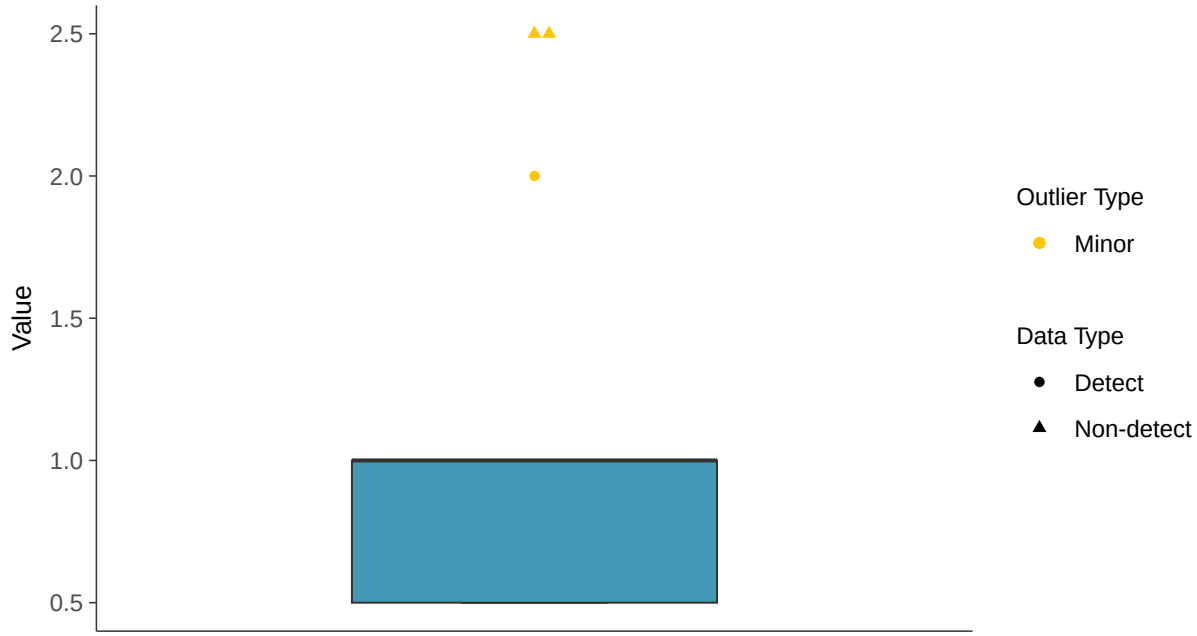
ID: 01_2_127





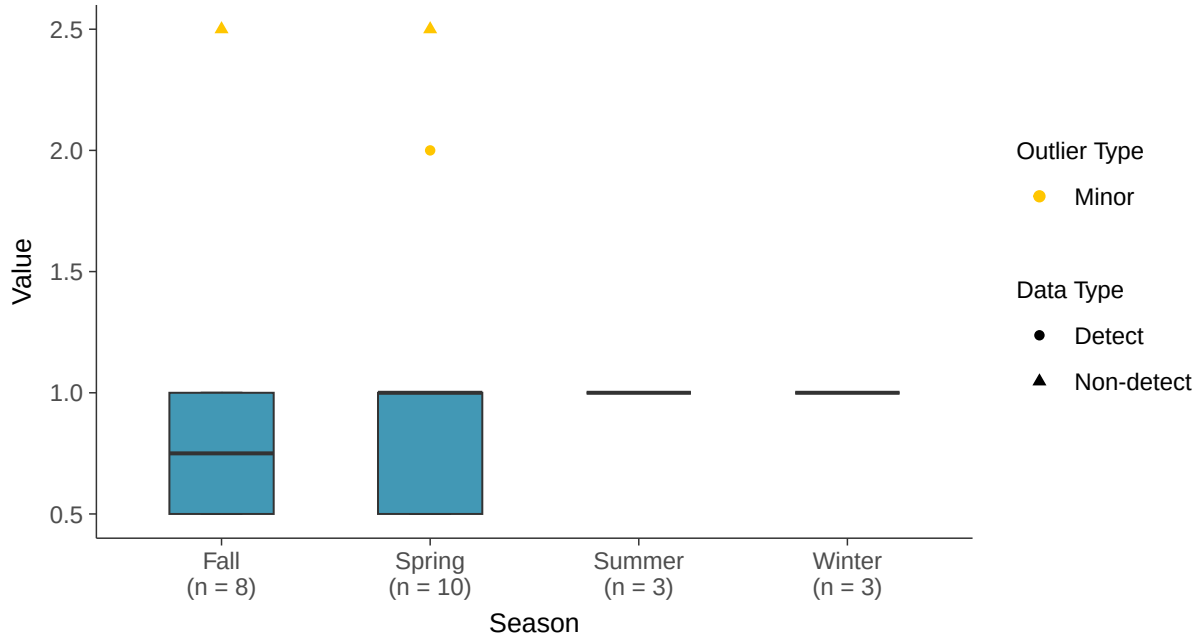
Boxplot

Selenium, MW-15009 (ug/L)



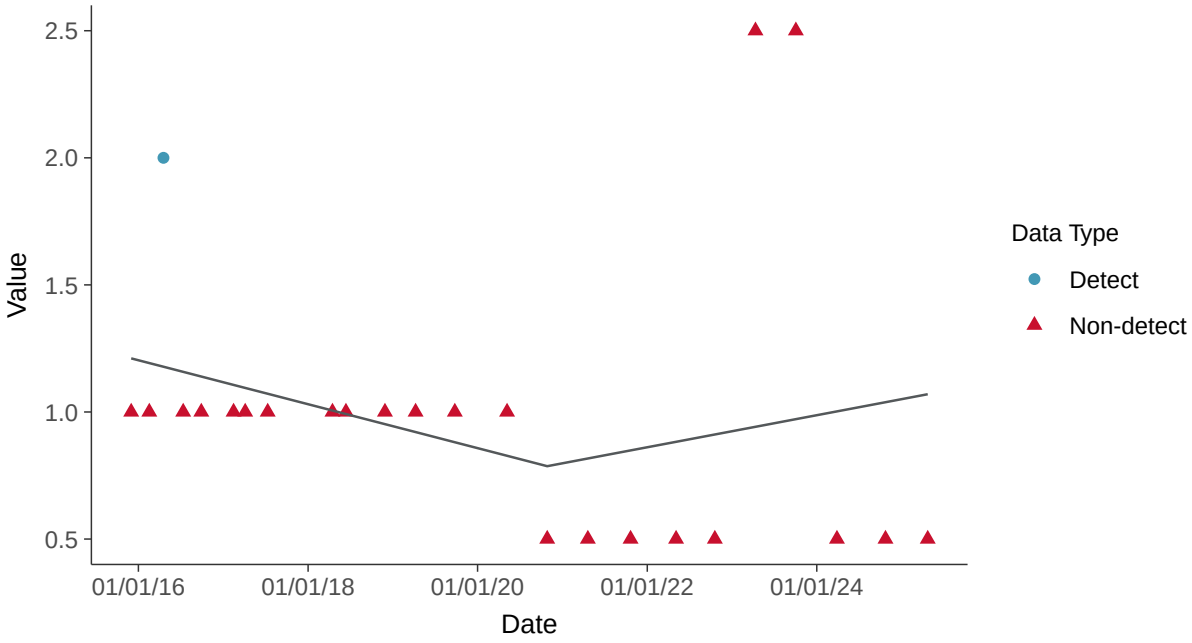
Boxplot by Season

Selenium, MW-15009 (ug/L)



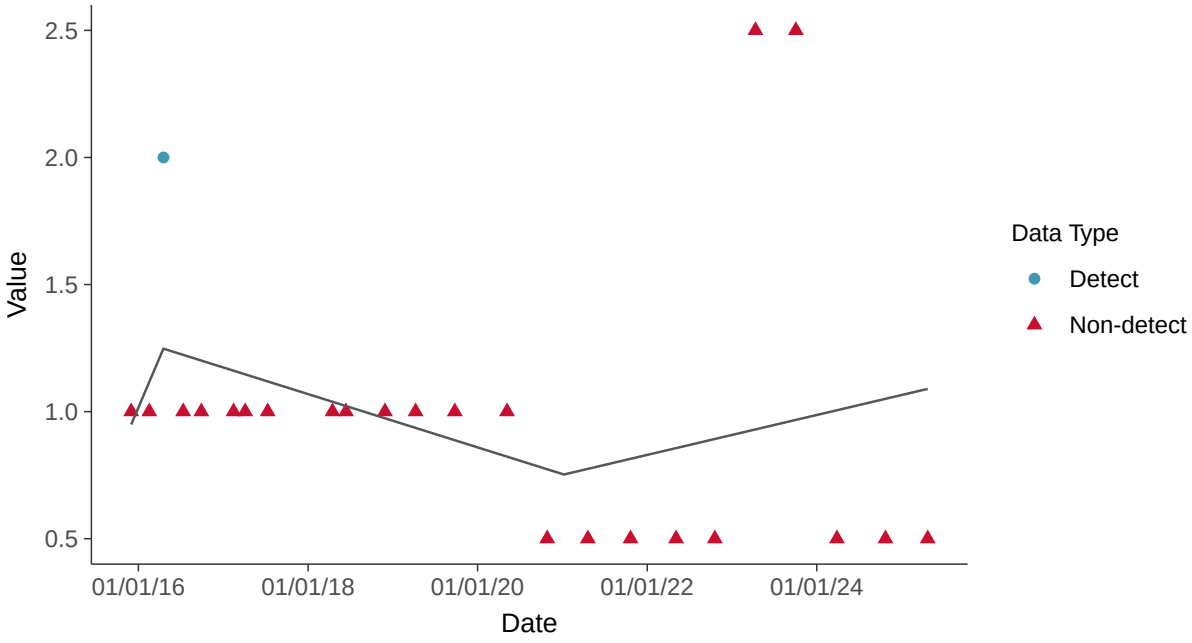
Trend Regression: Piecewise Linear-Linear

Selenium, MW-15009 (ug/L)



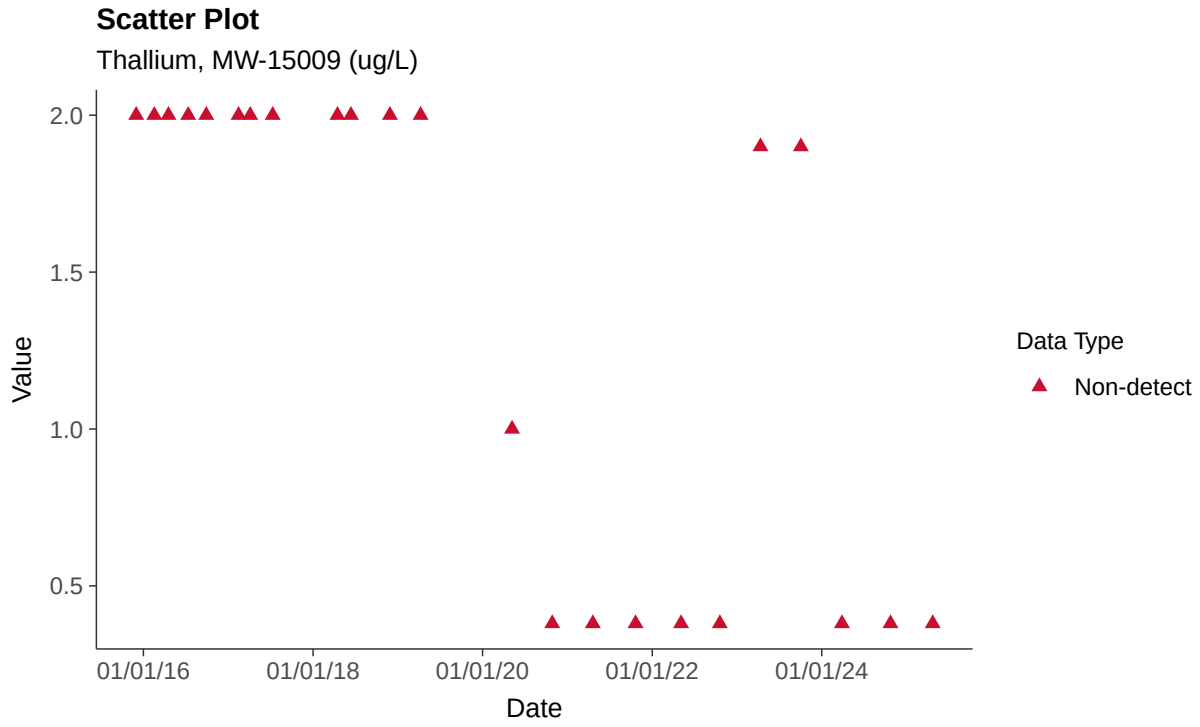
Trend Regression: Piecewise Linear-Linear-Linear

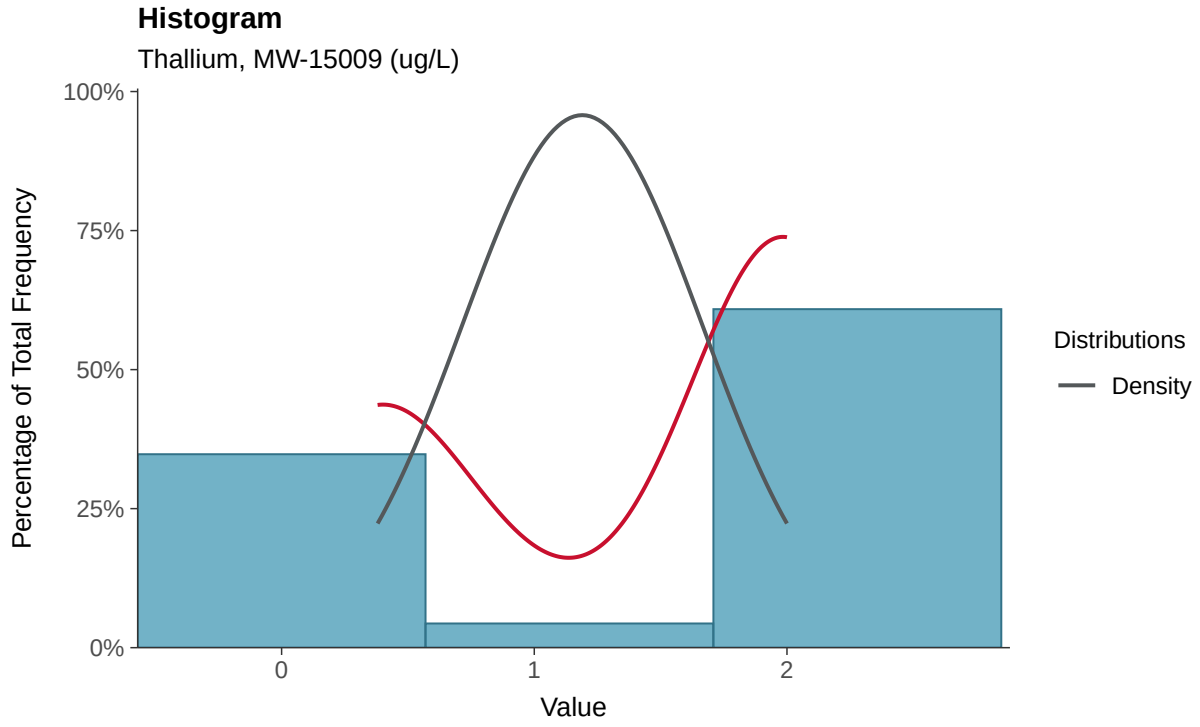
Selenium, MW-15009 (ug/L)



Appendix IV: Thallium, MW-15009

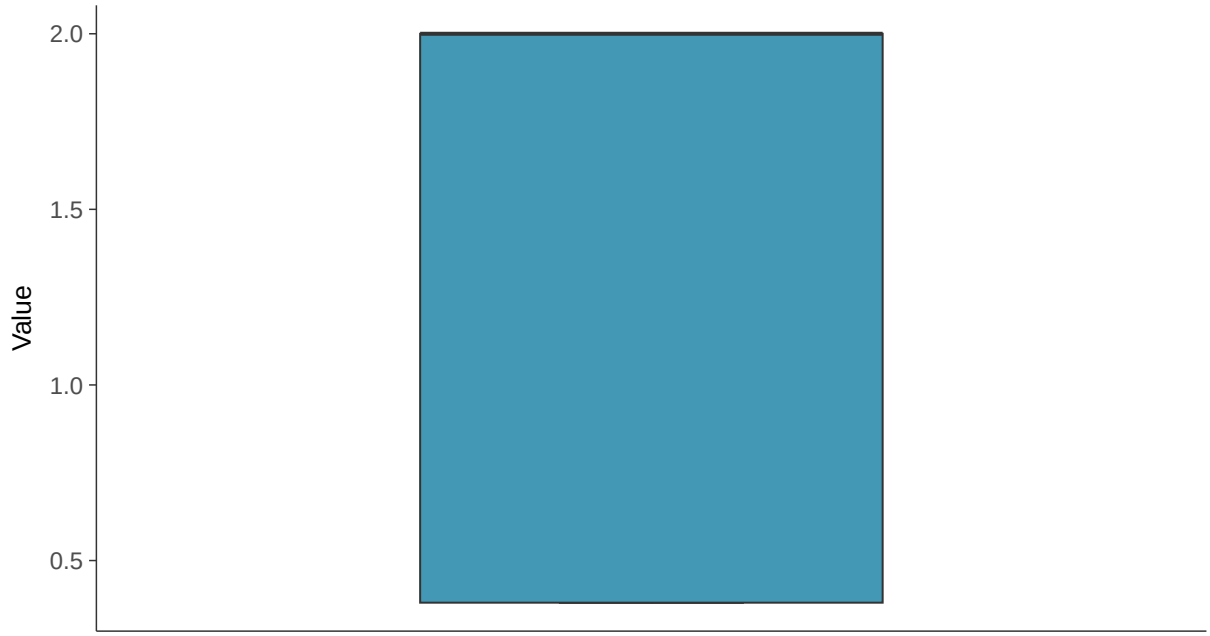
ID: 01_2_131





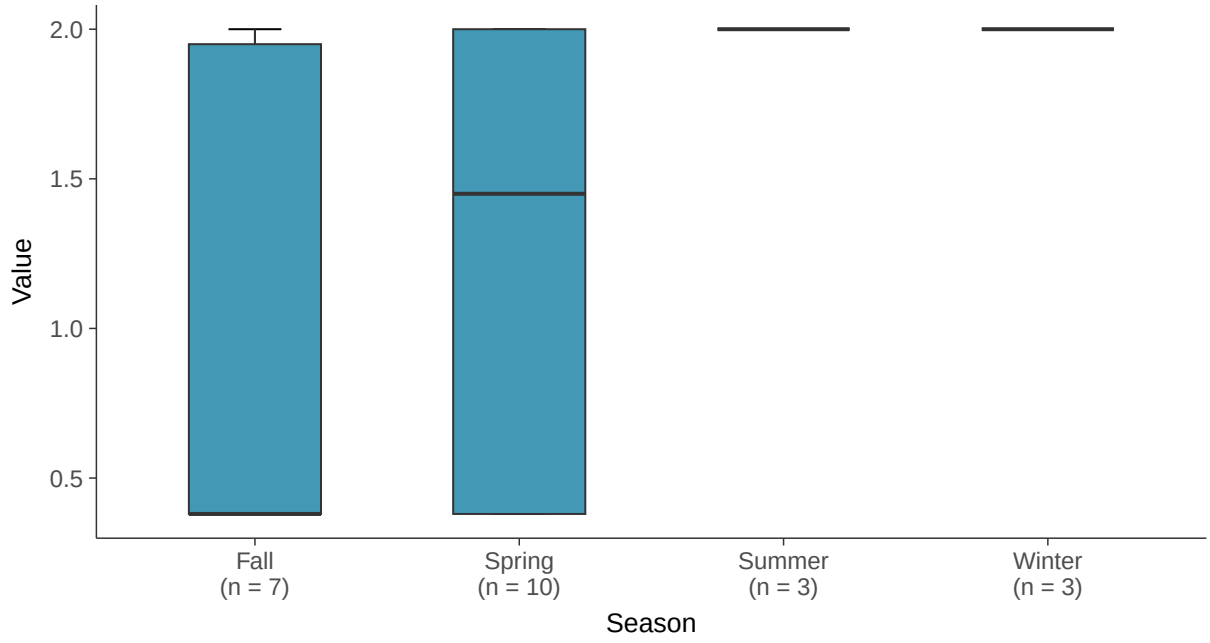
Boxplot

Thallium, MW-15009 (ug/L)



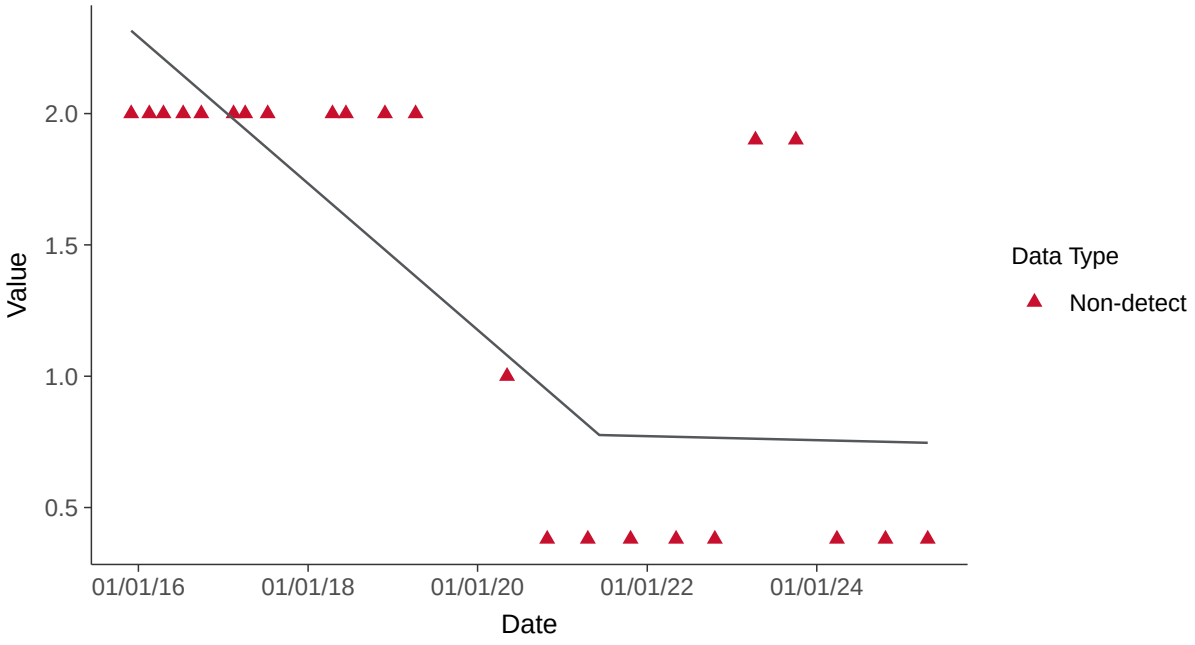
Boxplot by Season

Thallium, MW-15009 (ug/L)



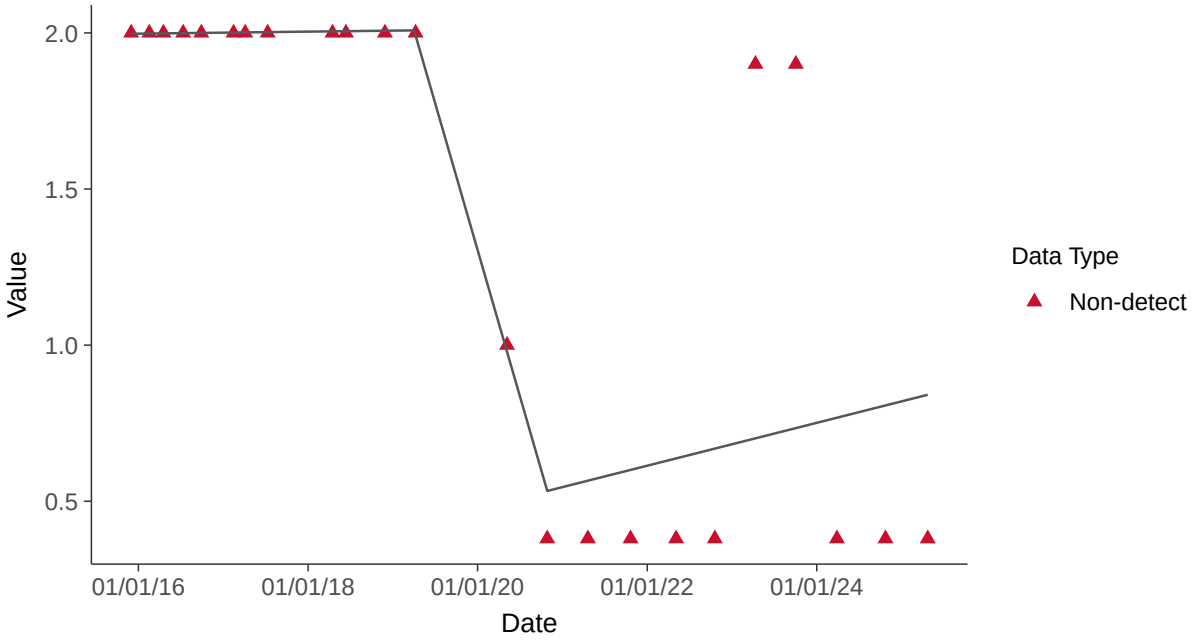
Trend Regression: Piecewise Linear-Linear

Thallium, MW-15009 (ug/L)



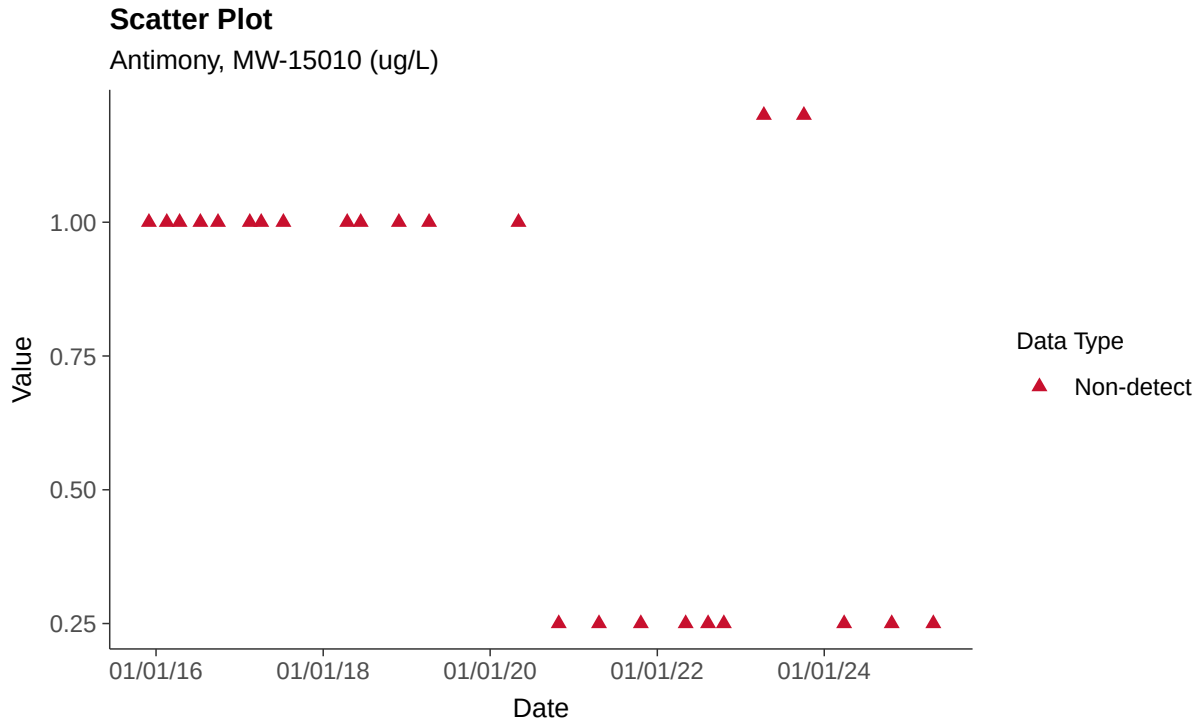
Trend Regression: Piecewise Linear-Linear-Linear

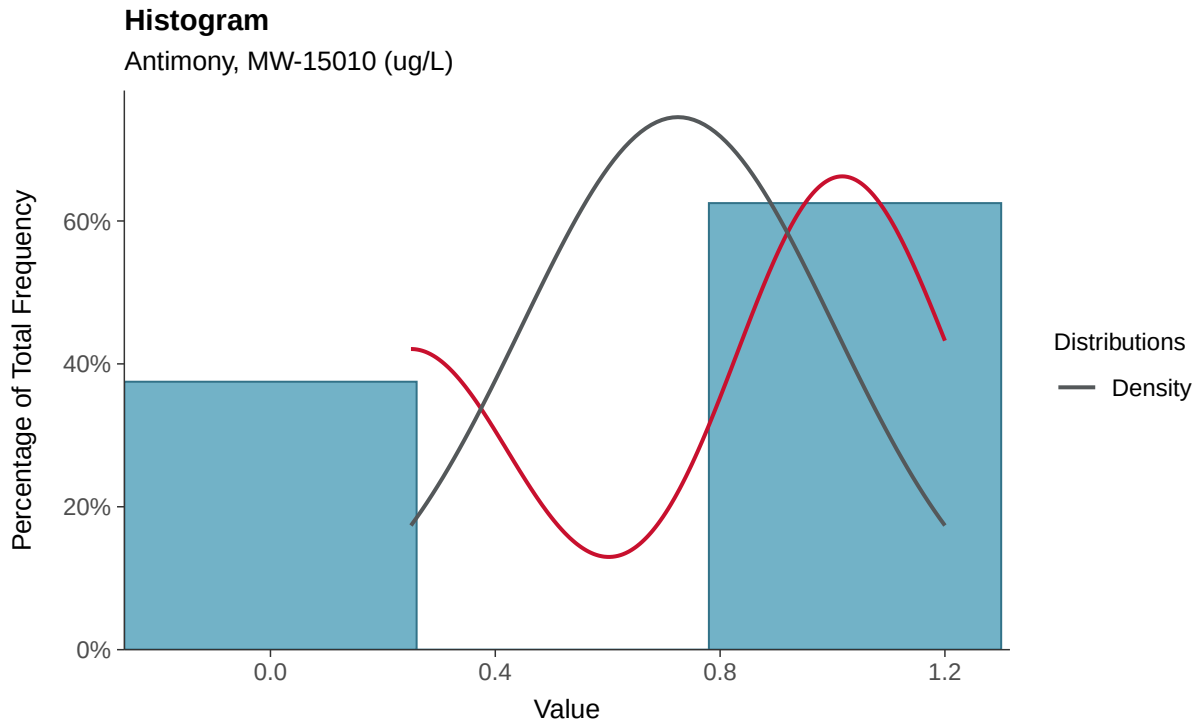
Thallium, MW-15009 (ug/L)



Appendix IV: Antimony, MW-15010

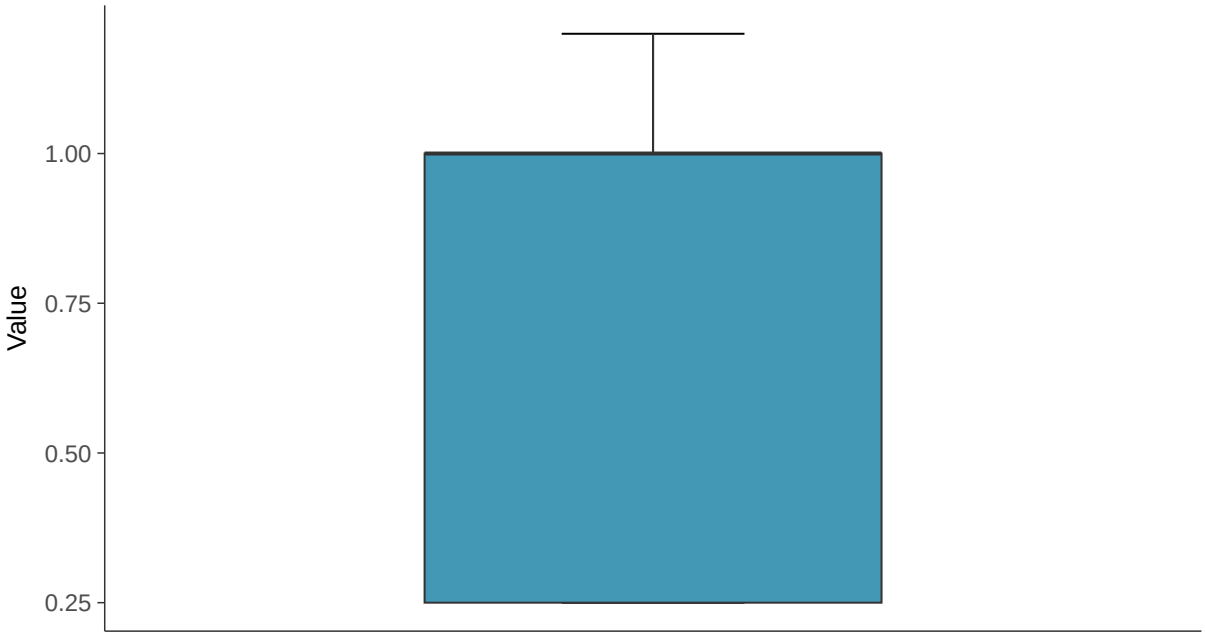
ID: 02_2_101





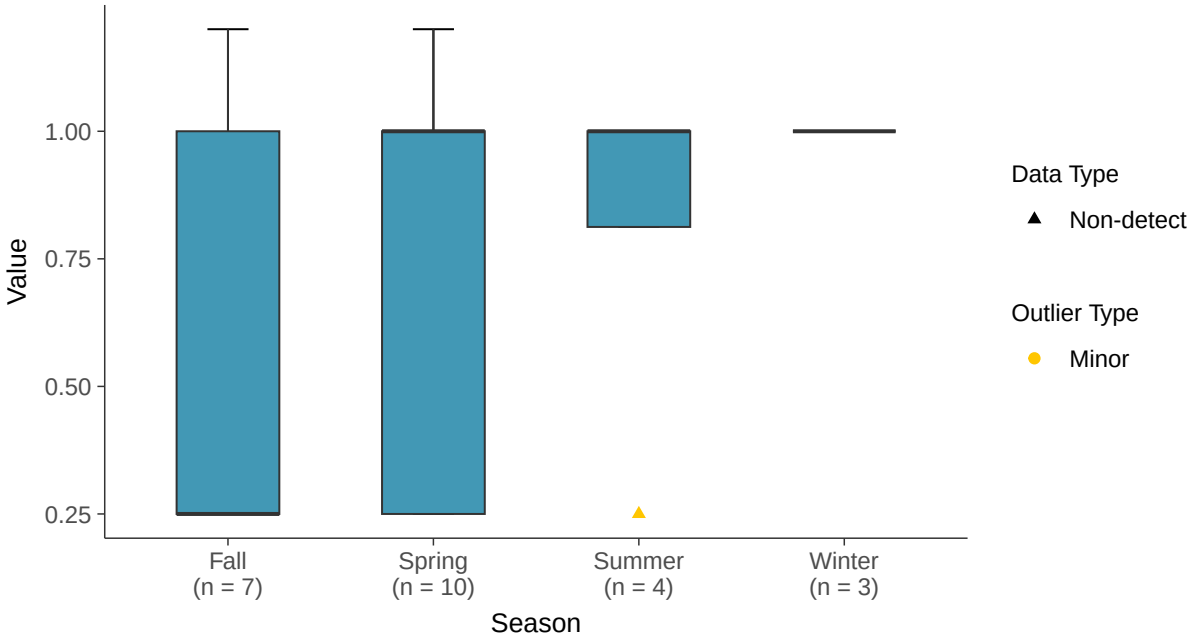
Boxplot

Antimony, MW-15010 (ug/L)



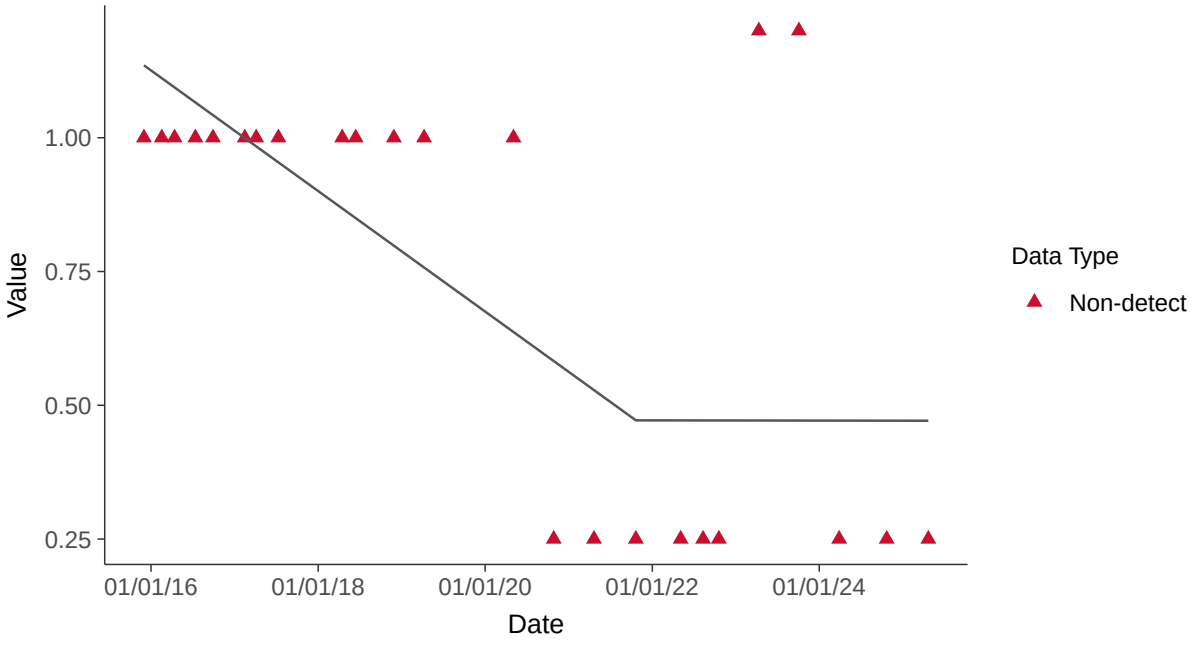
Boxplot by Season

Antimony, MW-15010 (ug/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-15010 (ug/L)

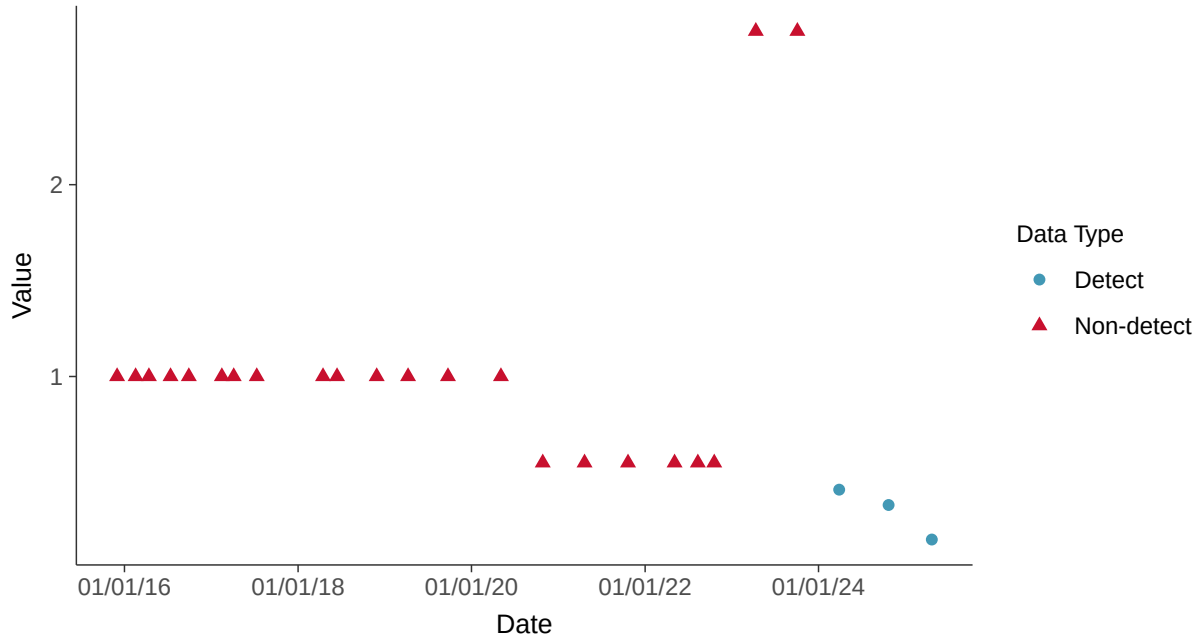


Appendix IV: Arsenic, MW-15010

ID: 02_2_102

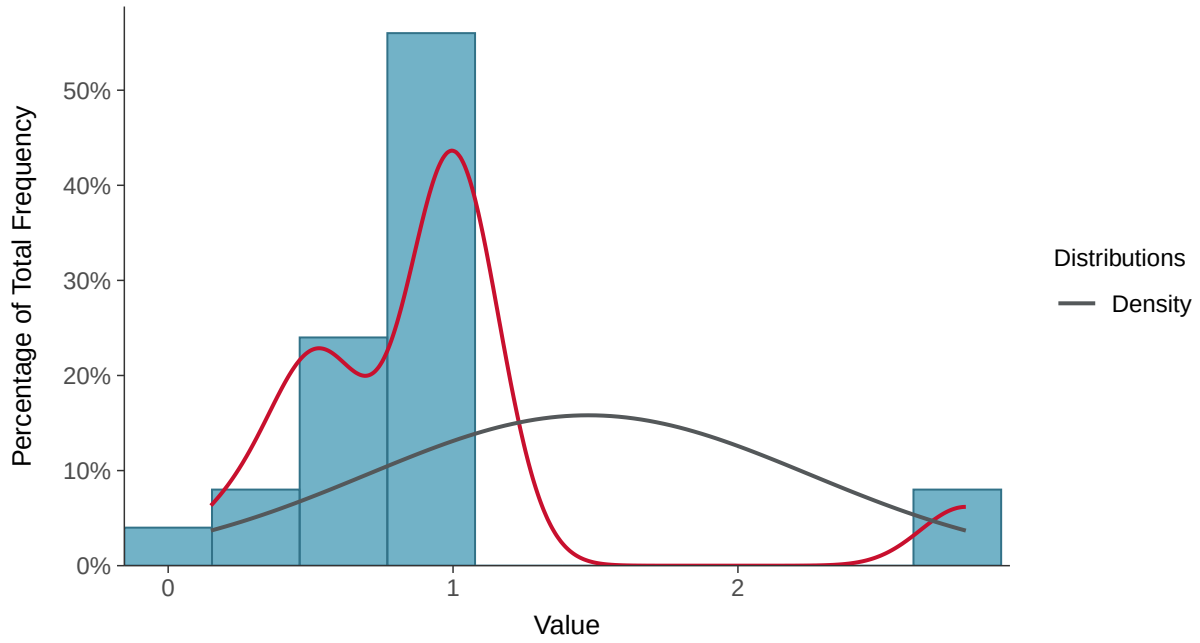
Scatter Plot

Arsenic, MW-15010 (ug/L)



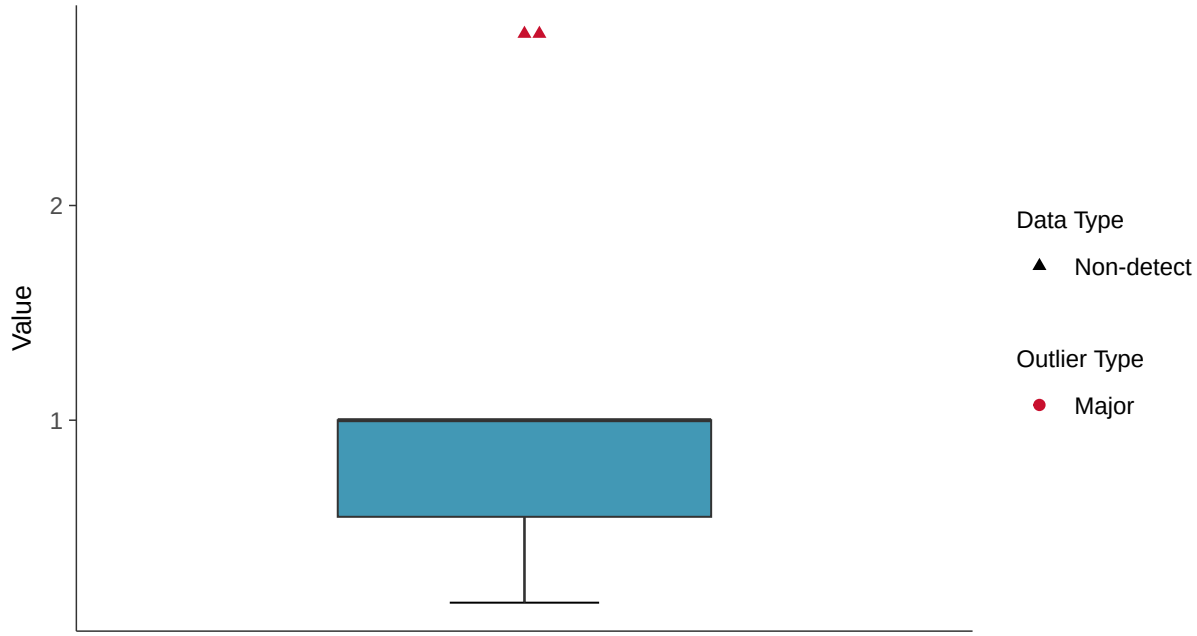
Histogram

Arsenic, MW-15010 (ug/L)



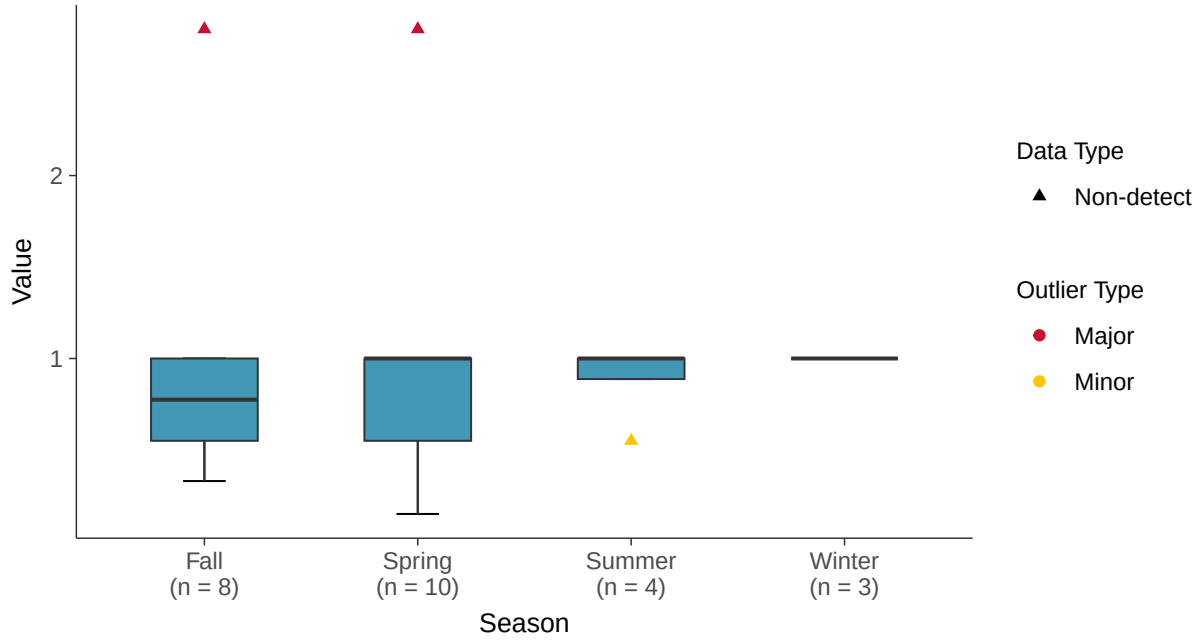
Boxplot

Arsenic, MW-15010 (ug/L)



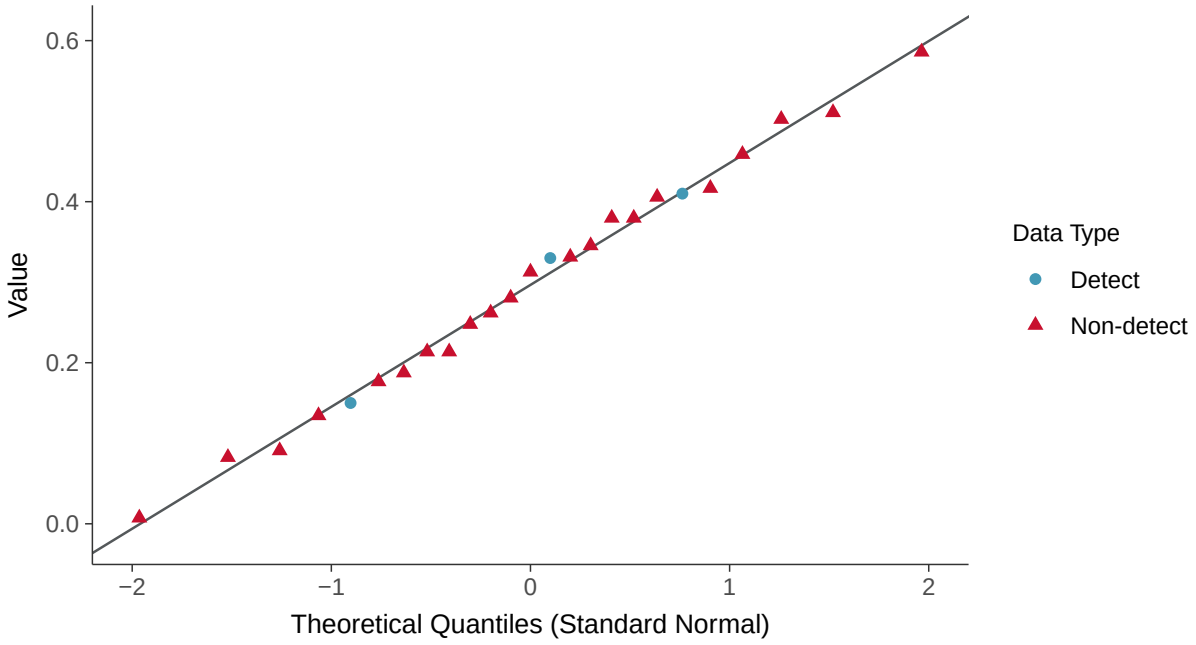
Boxplot by Season

Arsenic, MW-15010 (ug/L)



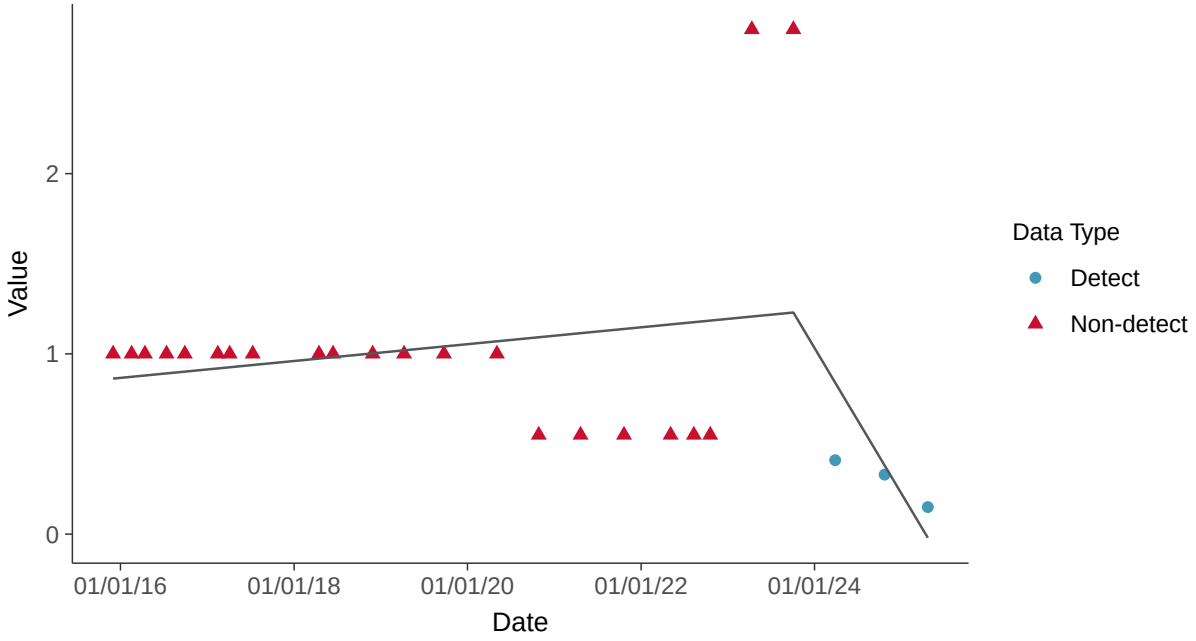
Normal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15010 (ug/L)



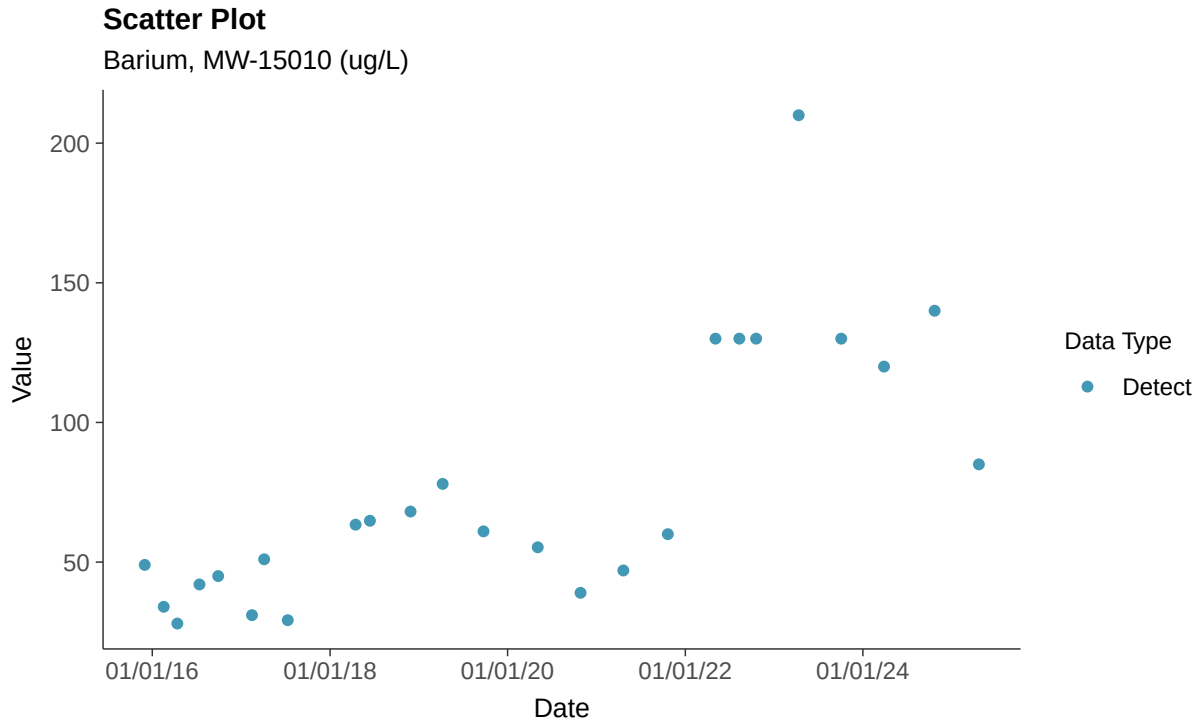
Trend Regression: Piecewise Linear-Linear

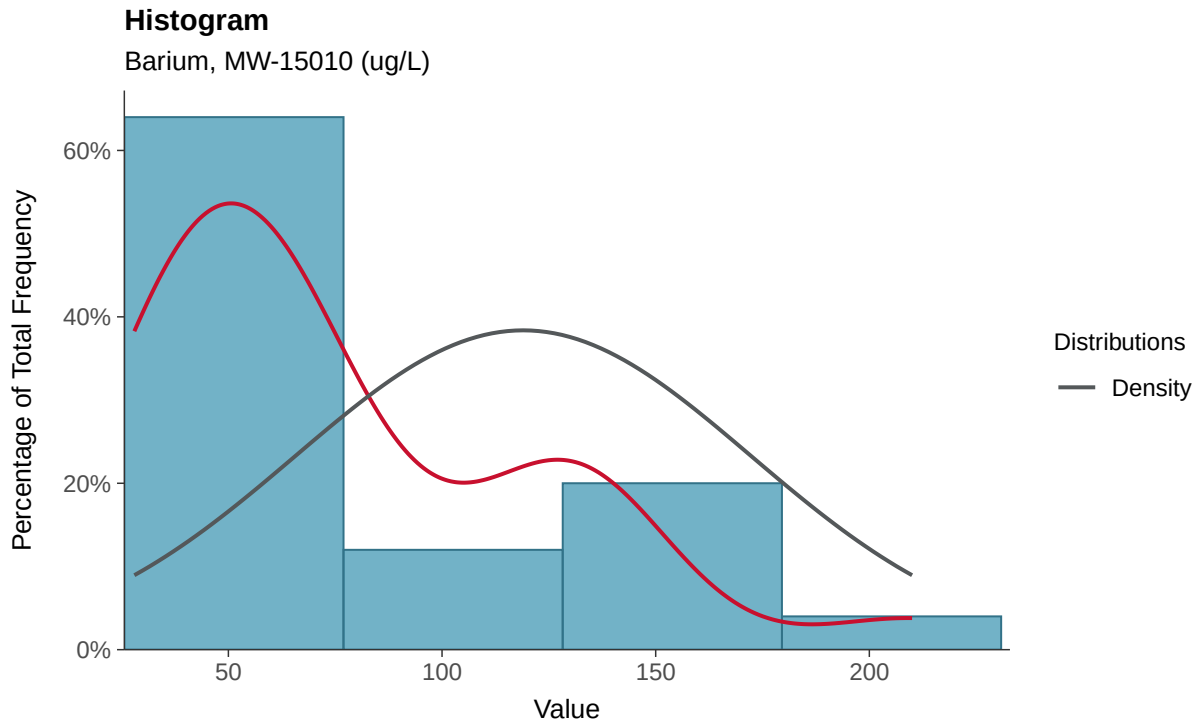
Arsenic, MW-15010 (ug/L)



Appendix IV: Barium, MW-15010

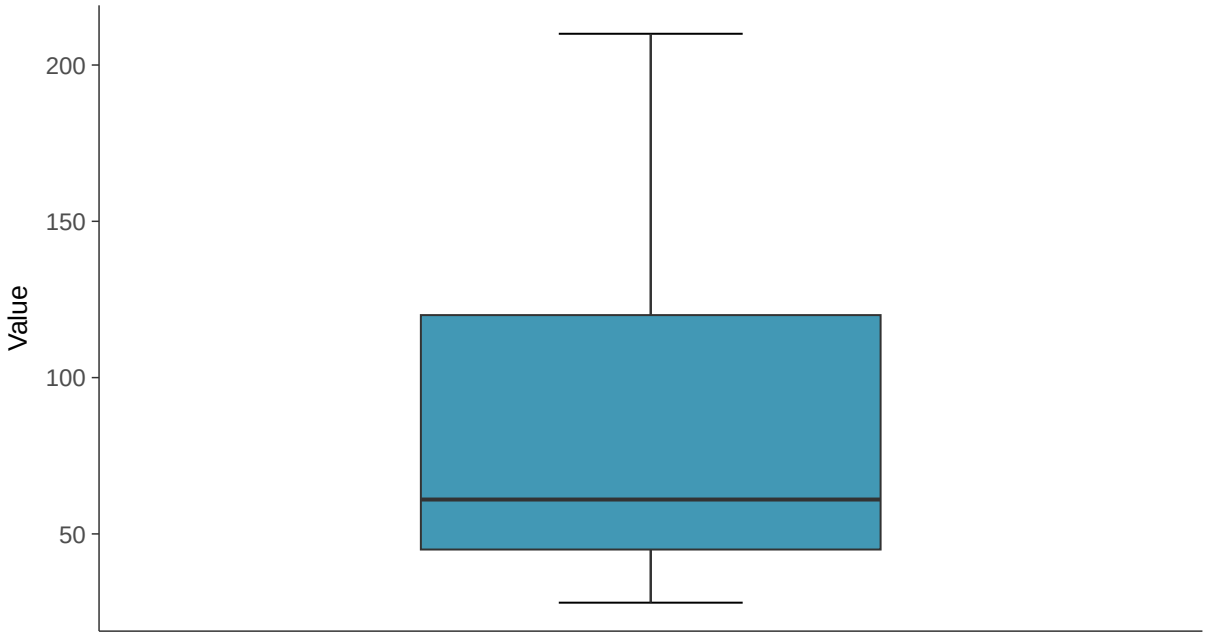
ID: 02_2_103





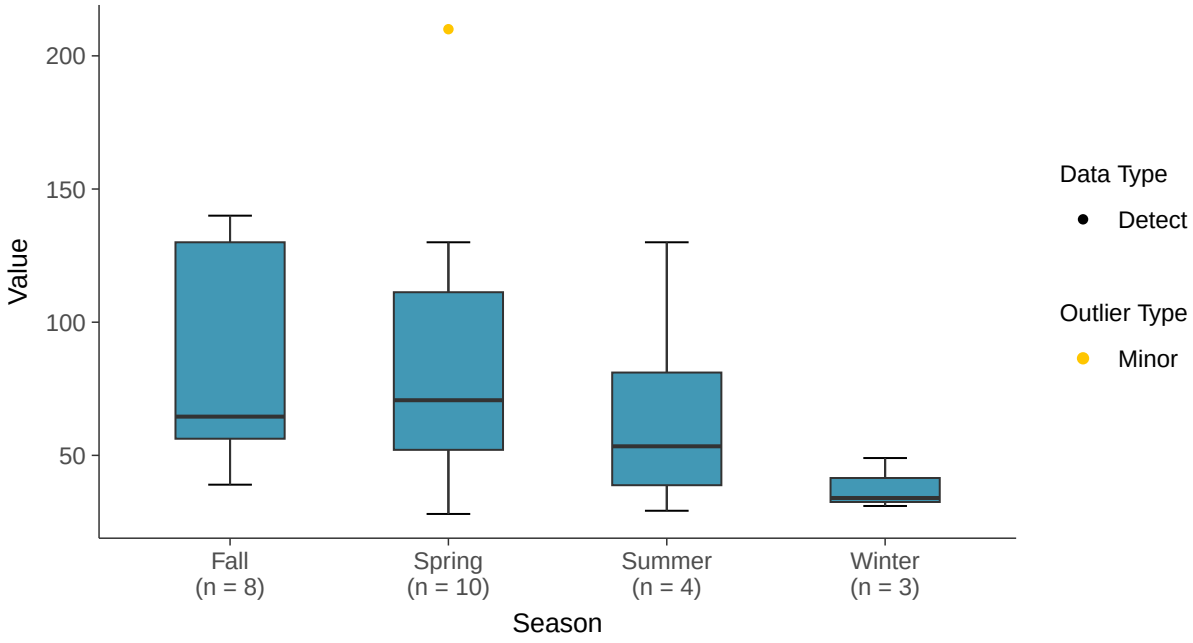
Boxplot

Barium, MW-15010 (ug/L)



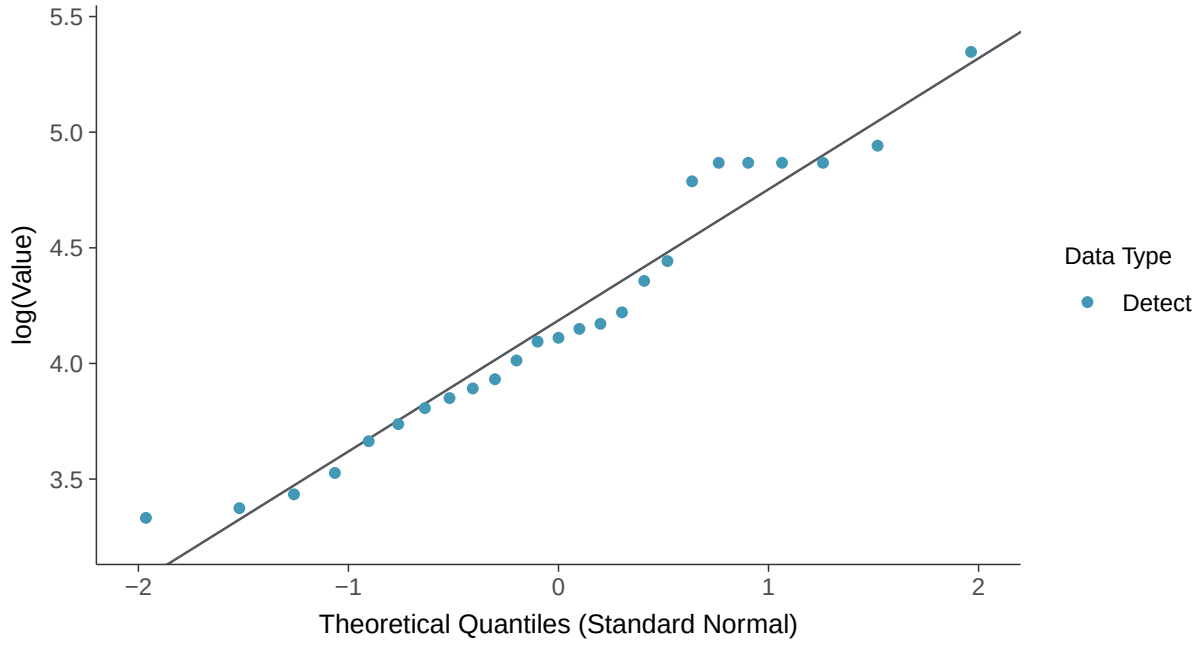
Boxplot by Season

Barium, MW-15010 (ug/L)



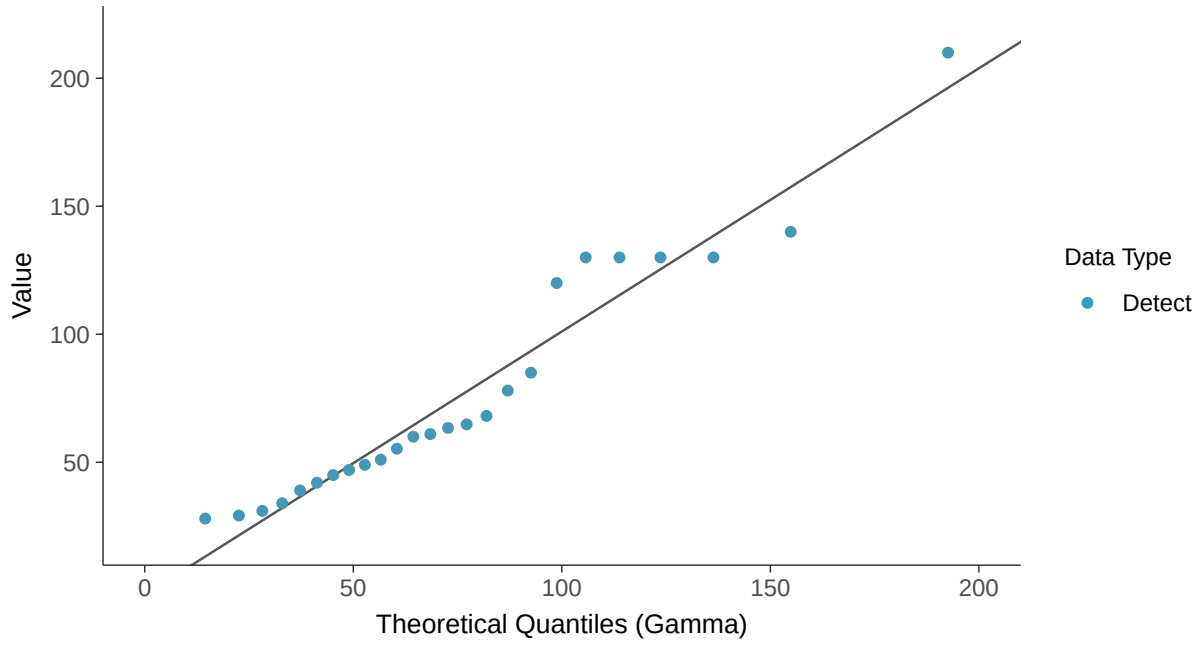
Lognormal Q-Q plot

Barium, MW-15010 (ug/L)



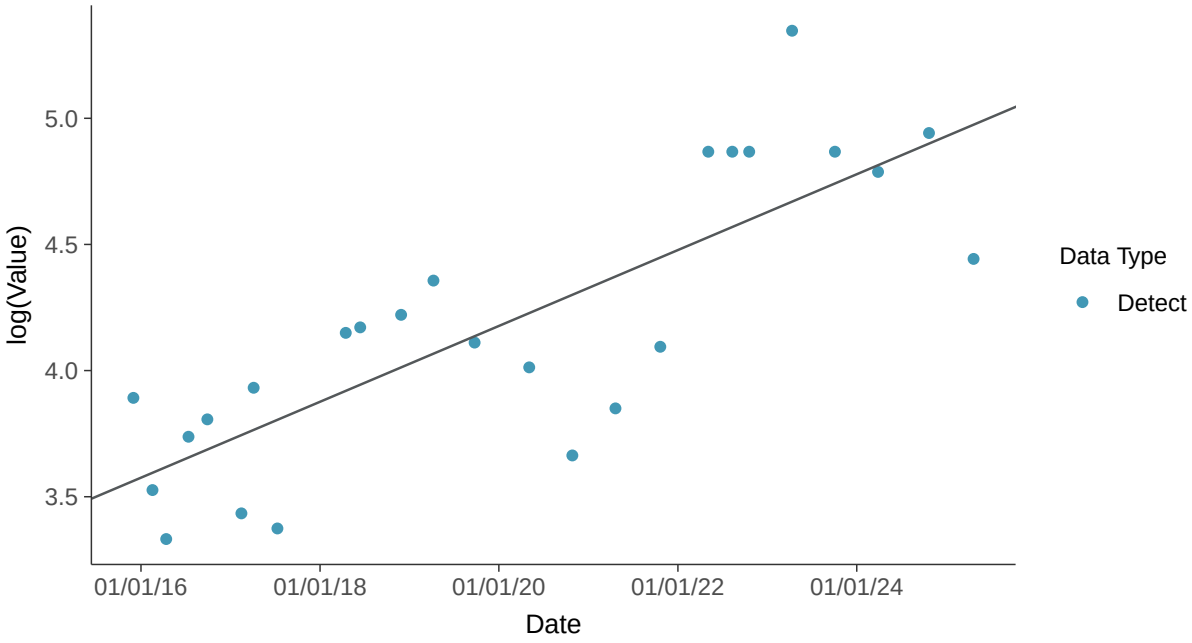
Gamma Q-Q plot

Barium, MW-15010 (ug/L)



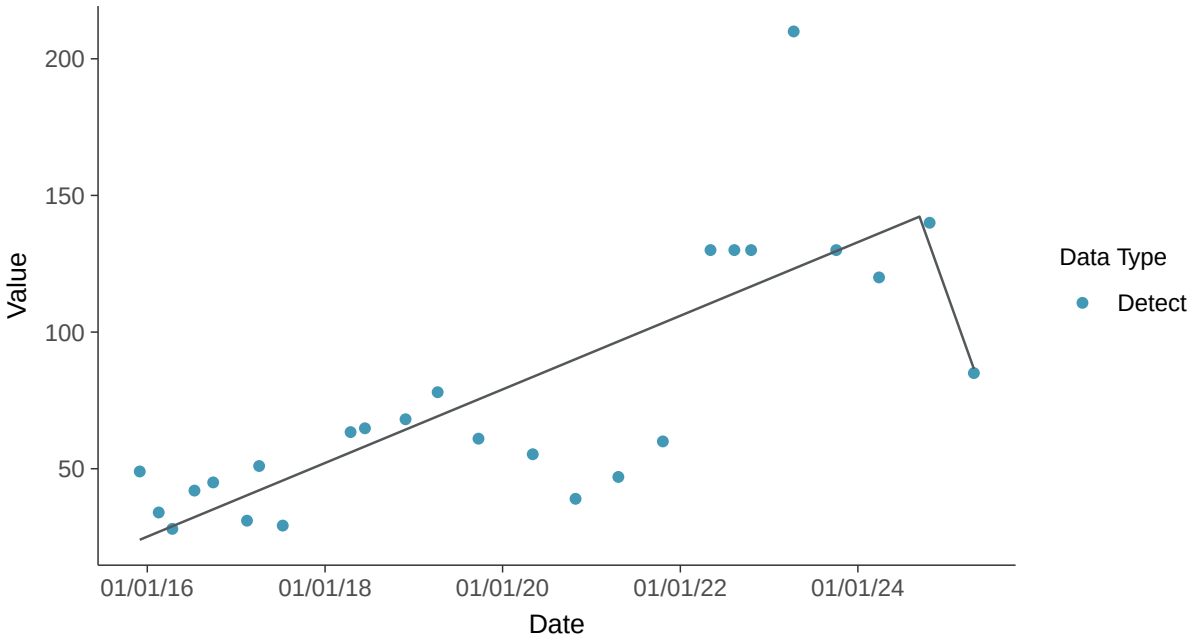
Trend Regression: Lognormal MLE

Barium, MW-15010 (ug/L)



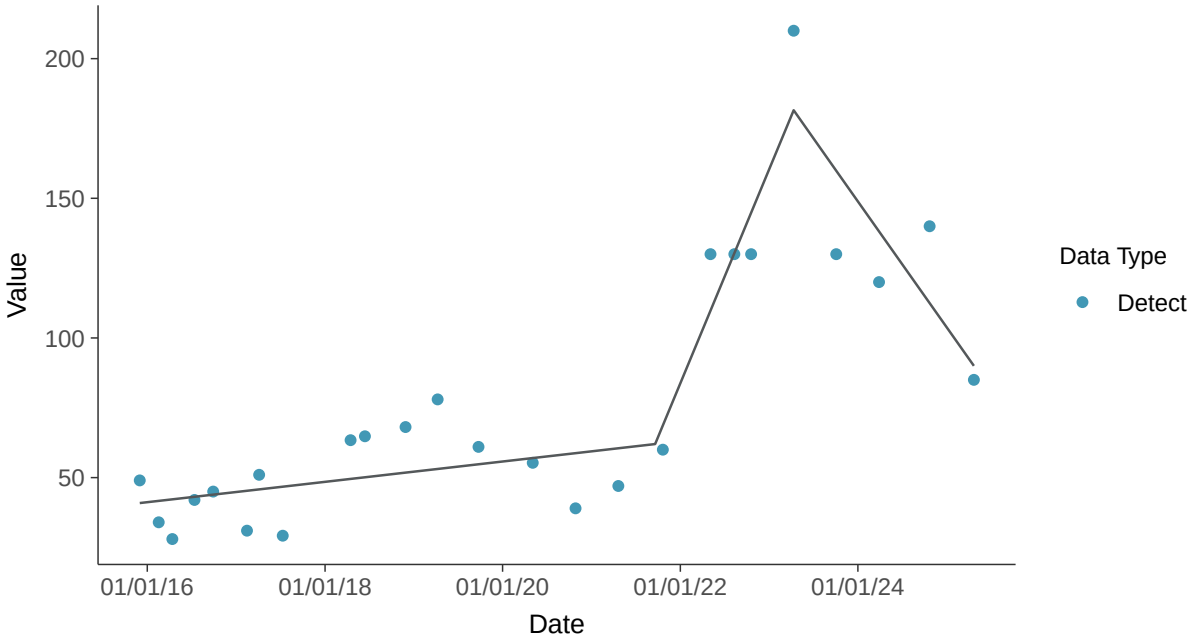
Trend Regression: Piecewise Linear-Linear

Barium, MW-15010 (ug/L)



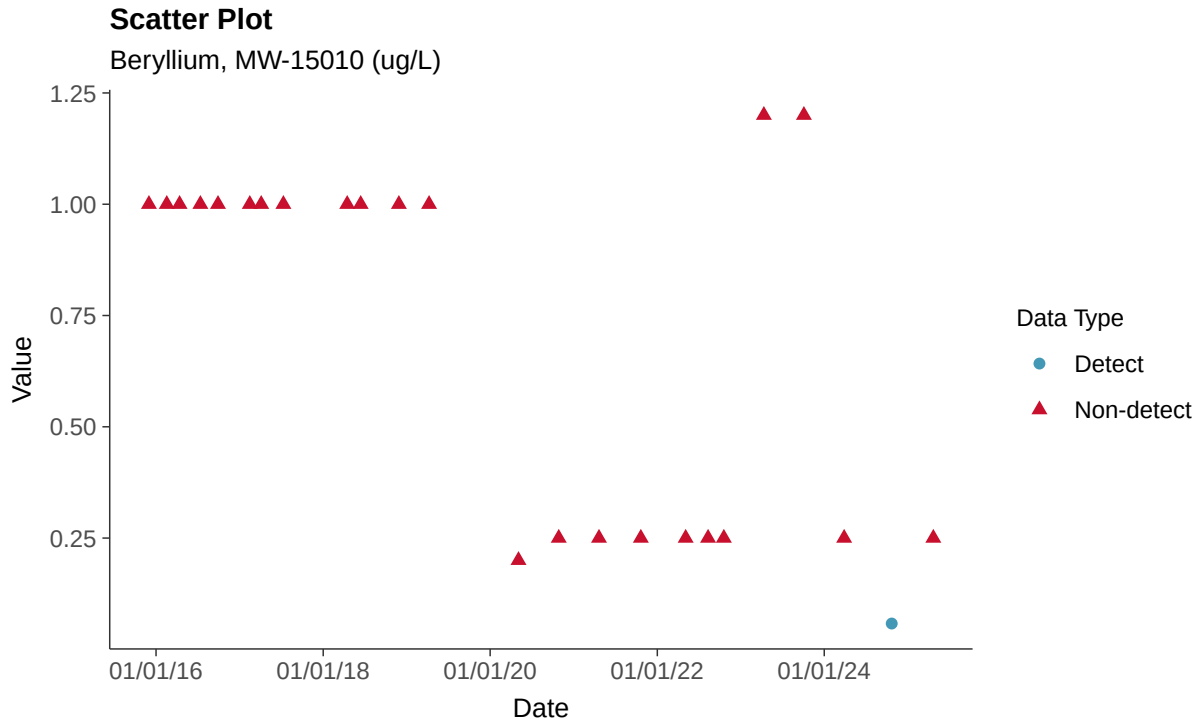
Trend Regression: Piecewise Linear-Linear-Linear

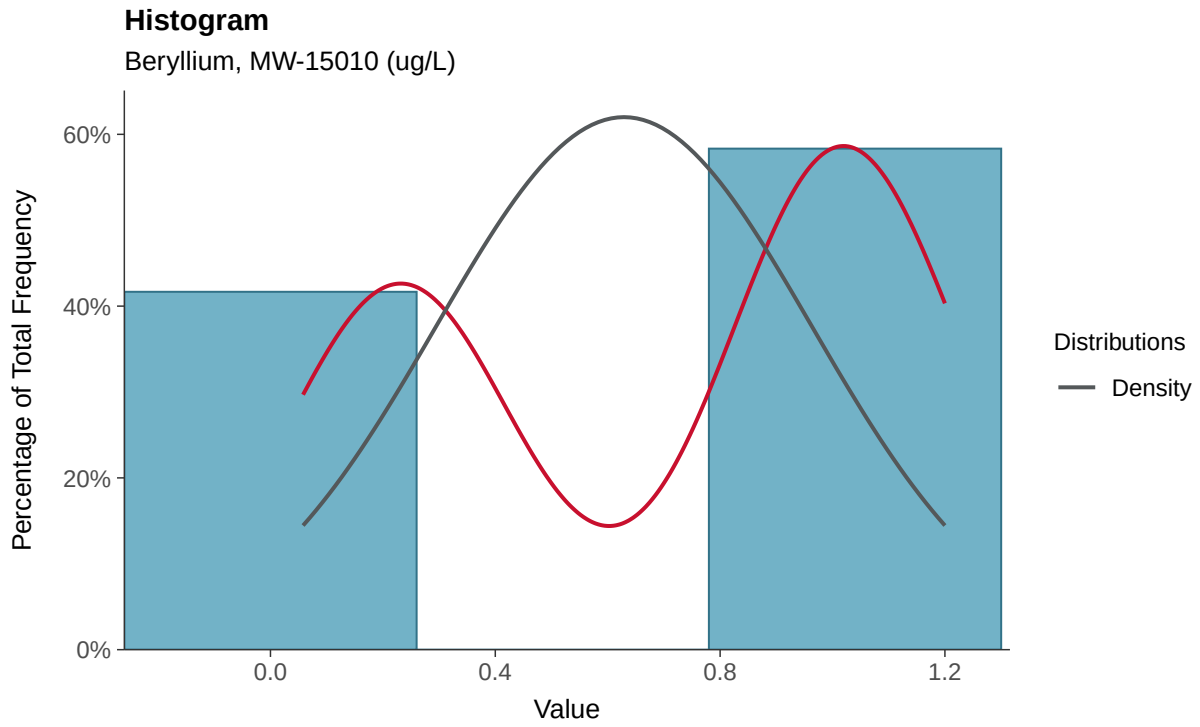
Barium, MW-15010 (ug/L)



Appendix IV: Beryllium, MW-15010

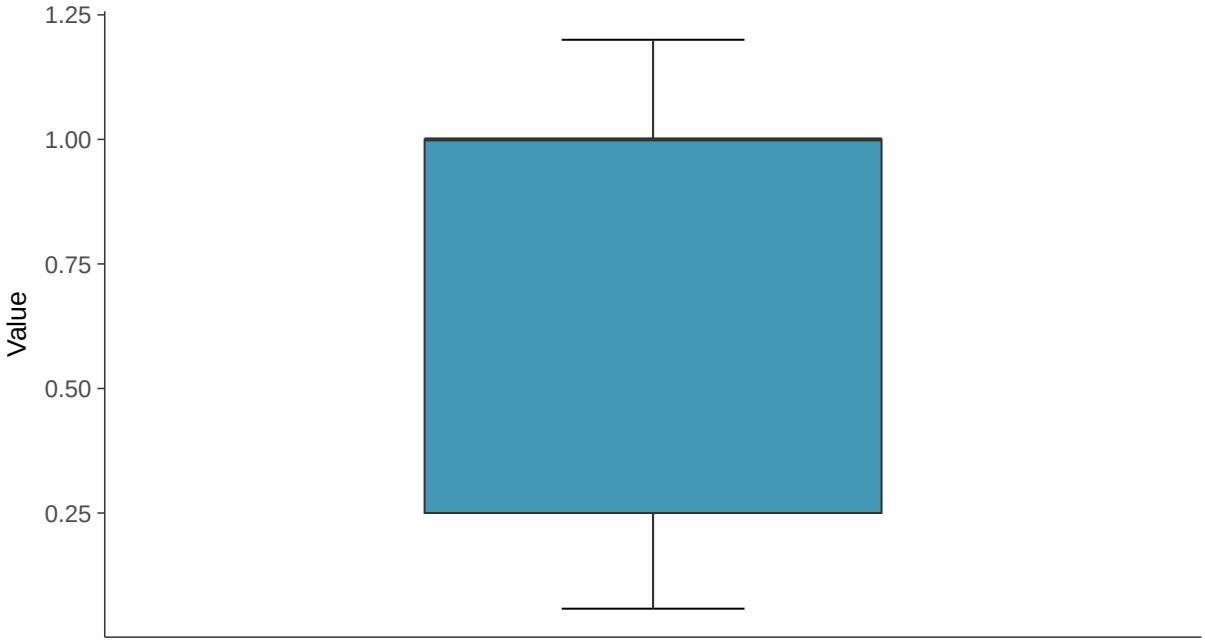
ID: 02_2_104





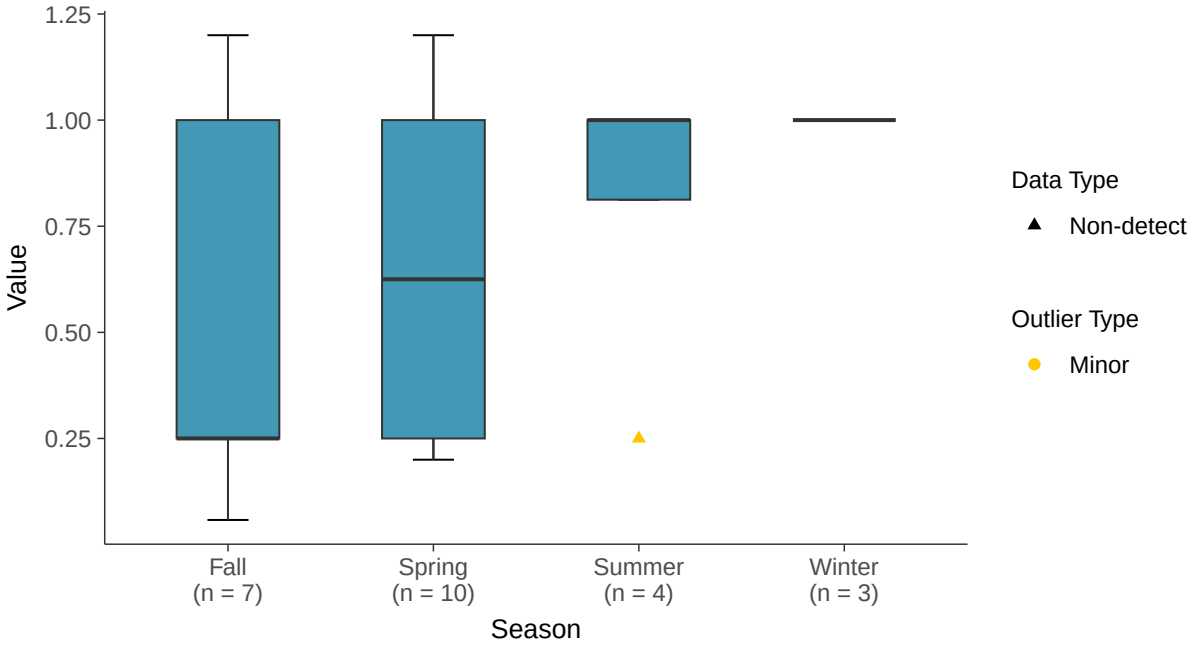
Boxplot

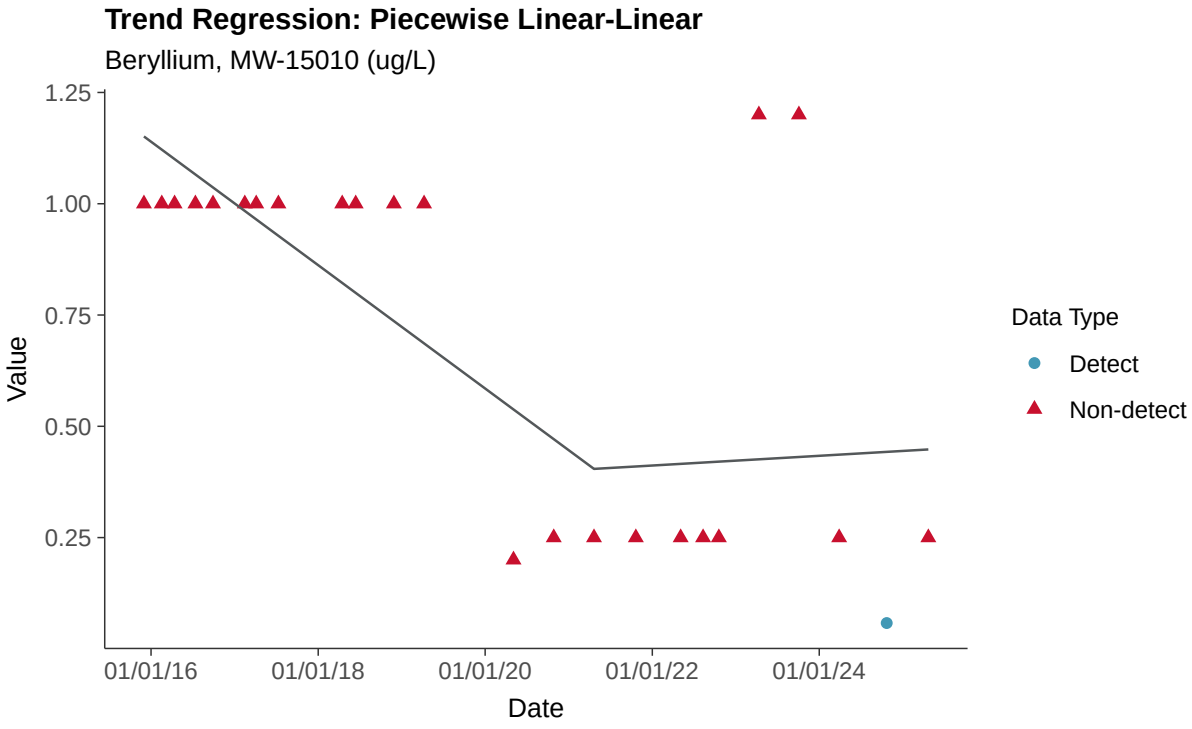
Beryllium, MW-15010 (ug/L)



Boxplot by Season

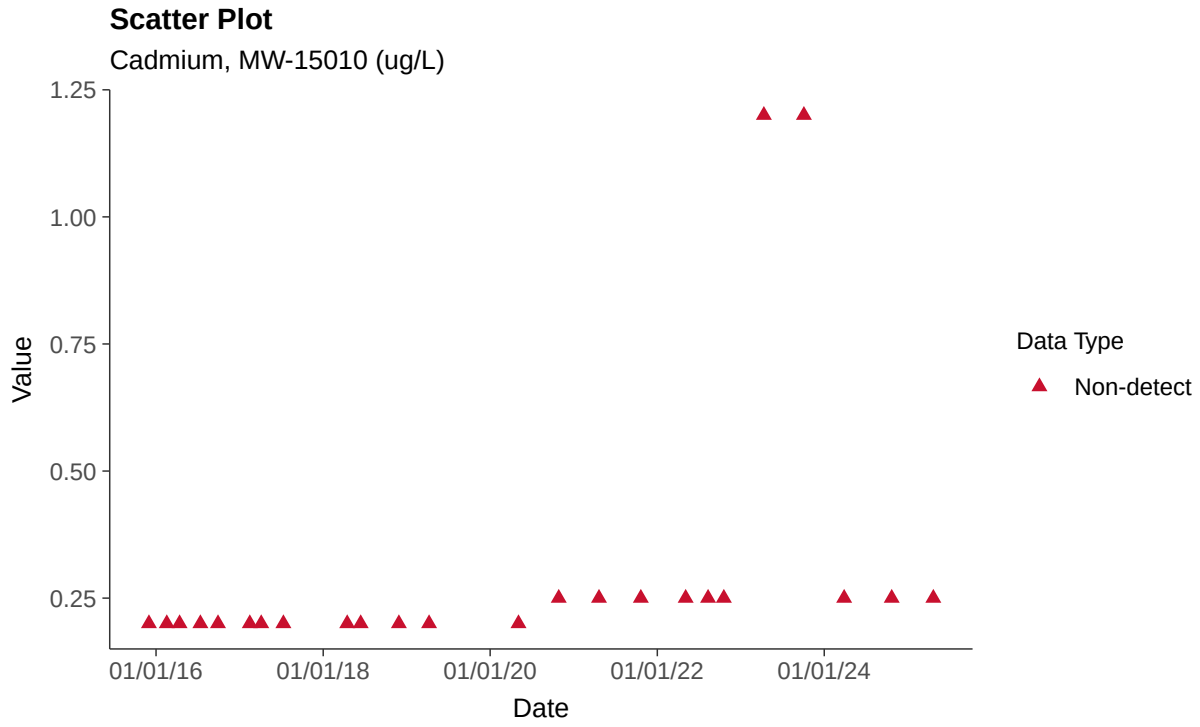
Beryllium, MW-15010 (ug/L)

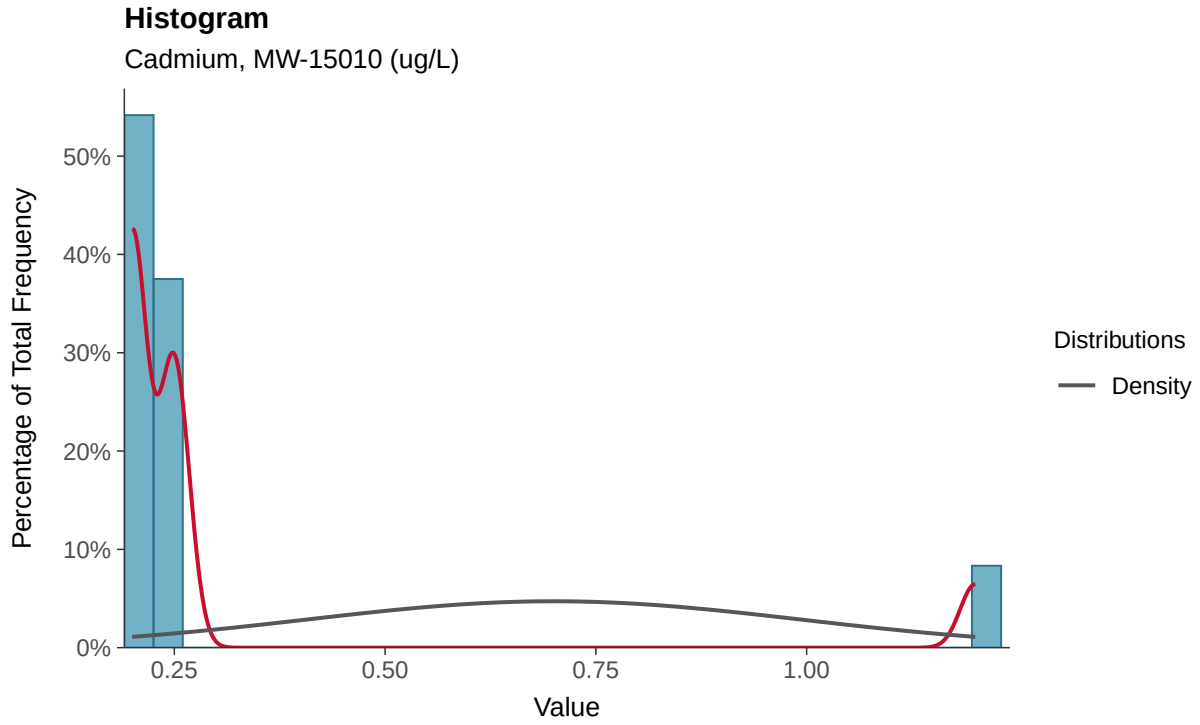



Trend Regression: Piecewise Linear-Linear
Beryllium, MW-15010 (ug/L)
Value
1.25
1.00
0.75
0.50
0.25
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Detect
Non-detect

Appendix IV: Cadmium, MW-15010

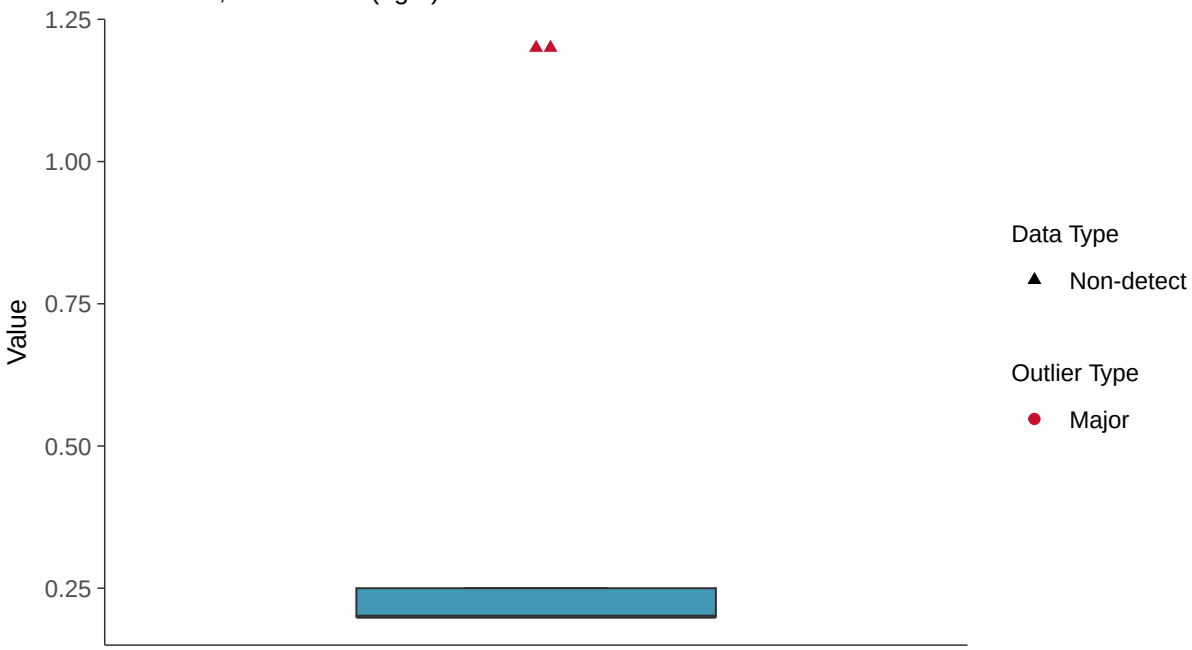
ID: 02_2_106





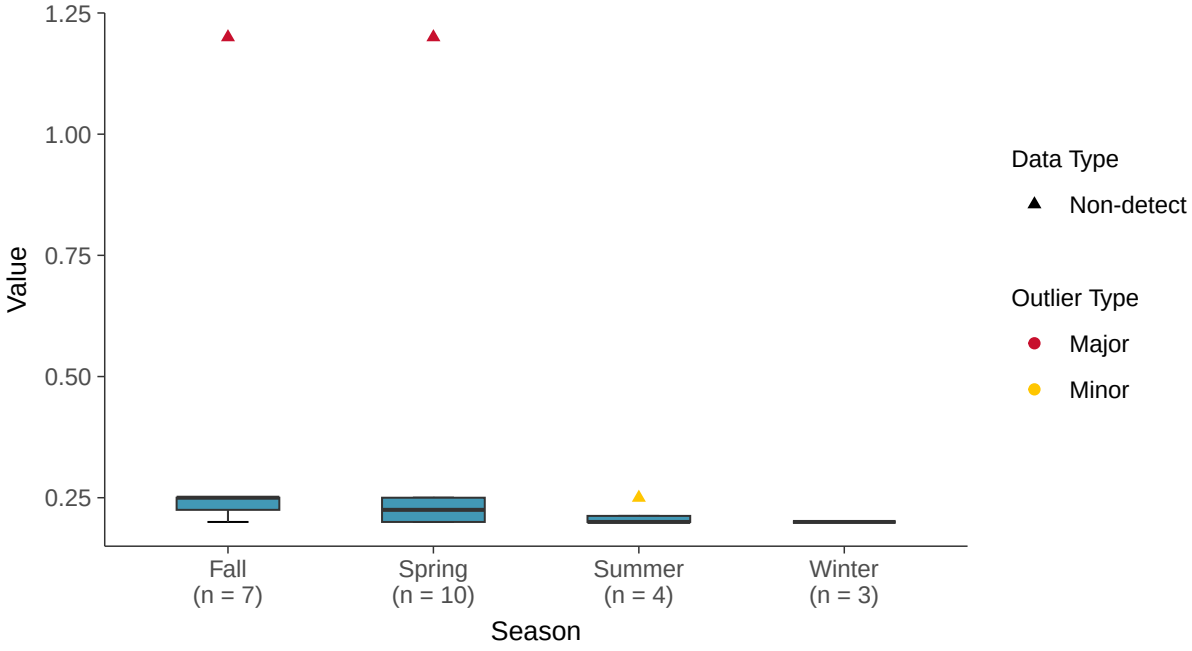
Boxplot

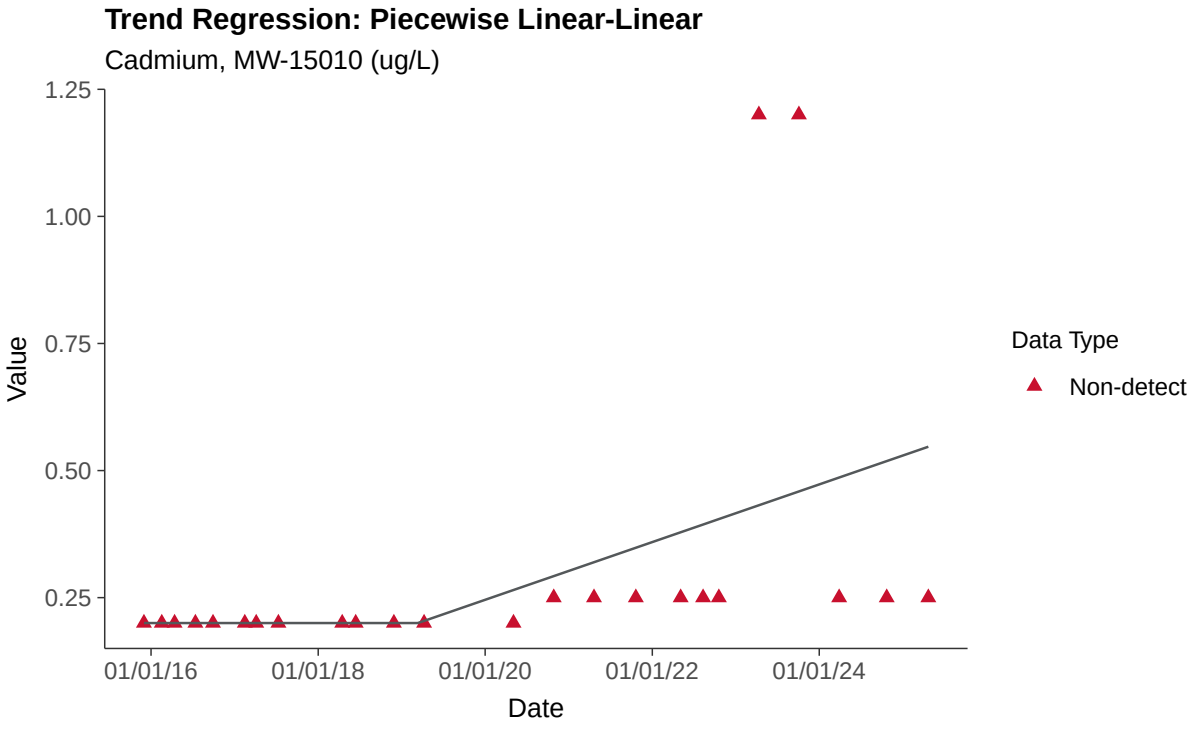
Cadmium, MW-15010 (ug/L)



Boxplot by Season

Cadmium, MW-15010 (ug/L)



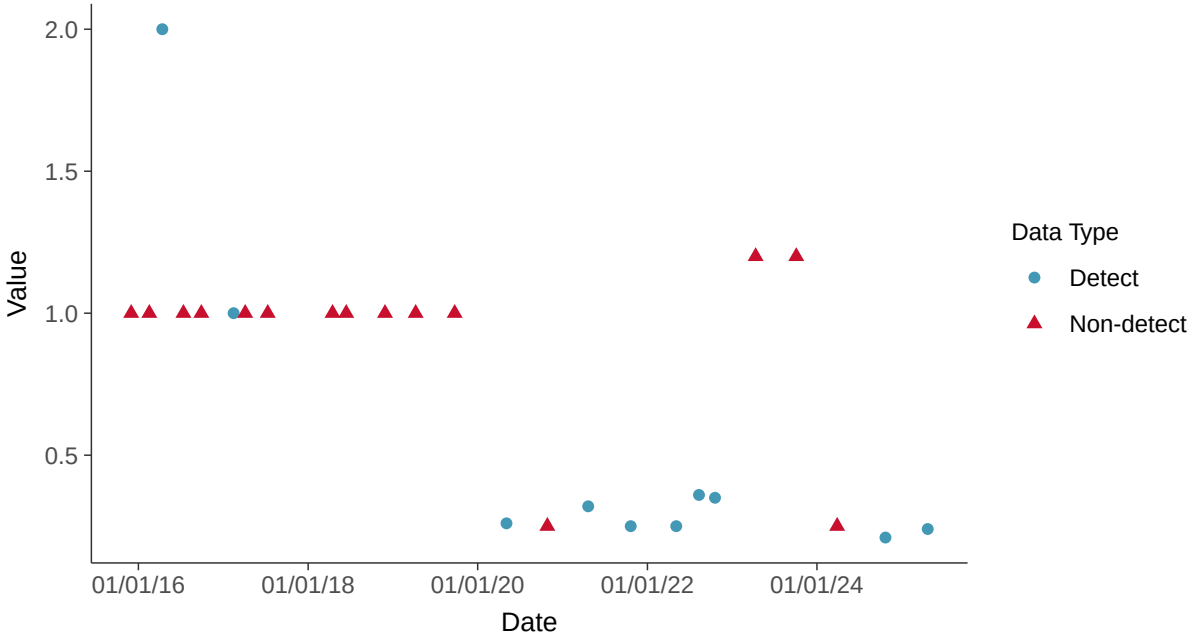

Trend Regression: Piecewise Linear-Linear
Cadmium, MW-15010 (ug/L)
1.25
1.00
0.75
0.50
0.25
Value
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Non-detect

Appendix IV: Chromium, MW-15010

ID: 02_2_109

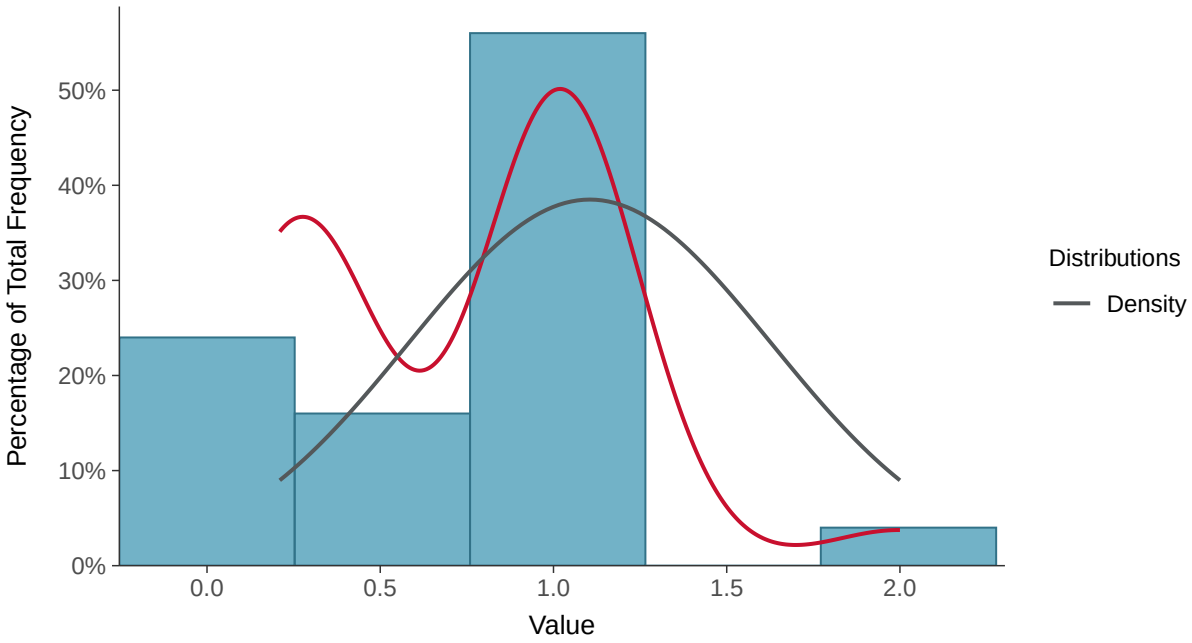
Scatter Plot

Chromium, MW-15010 (ug/L)



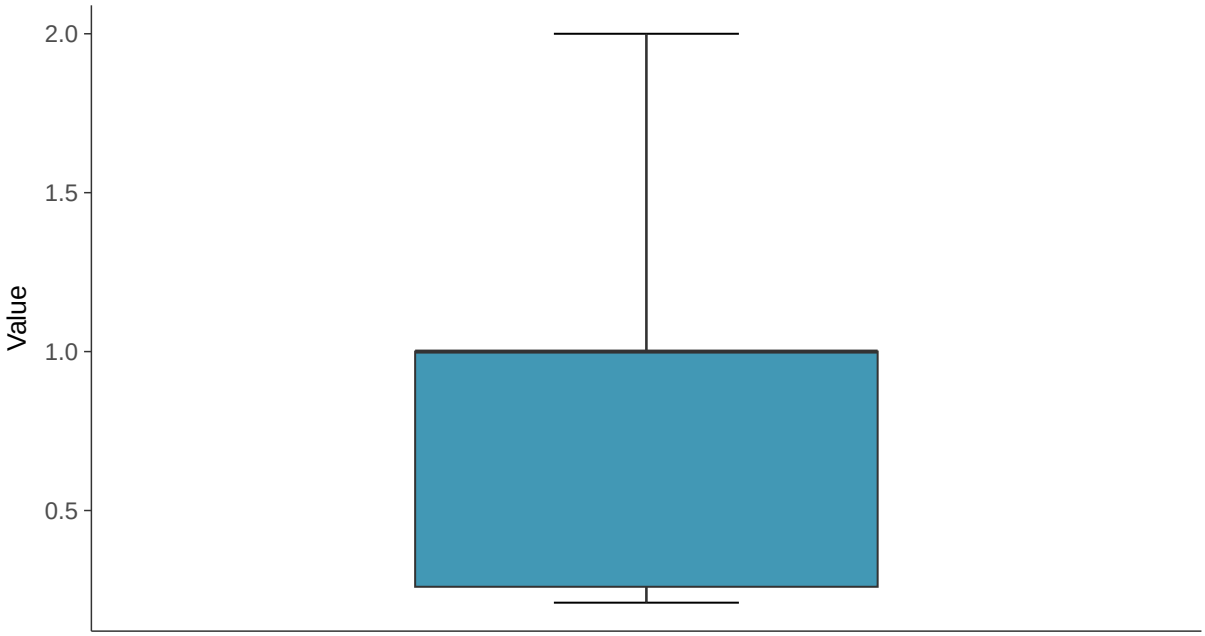
Histogram

Chromium, MW-15010 (ug/L)



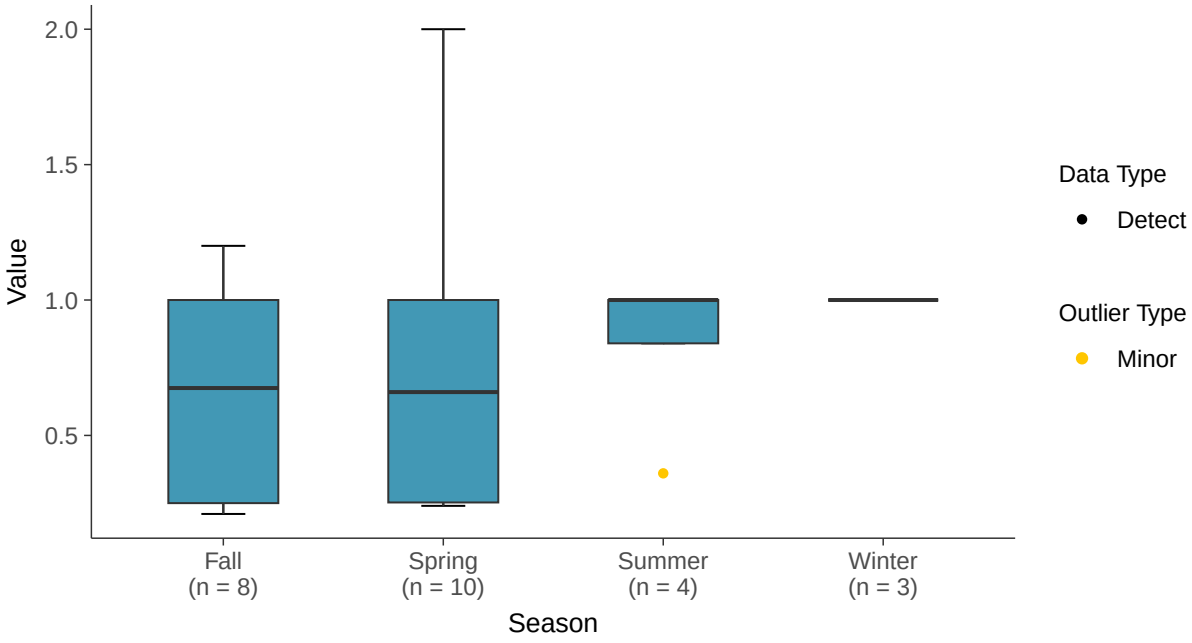
Boxplot

Chromium, MW-15010 (ug/L)



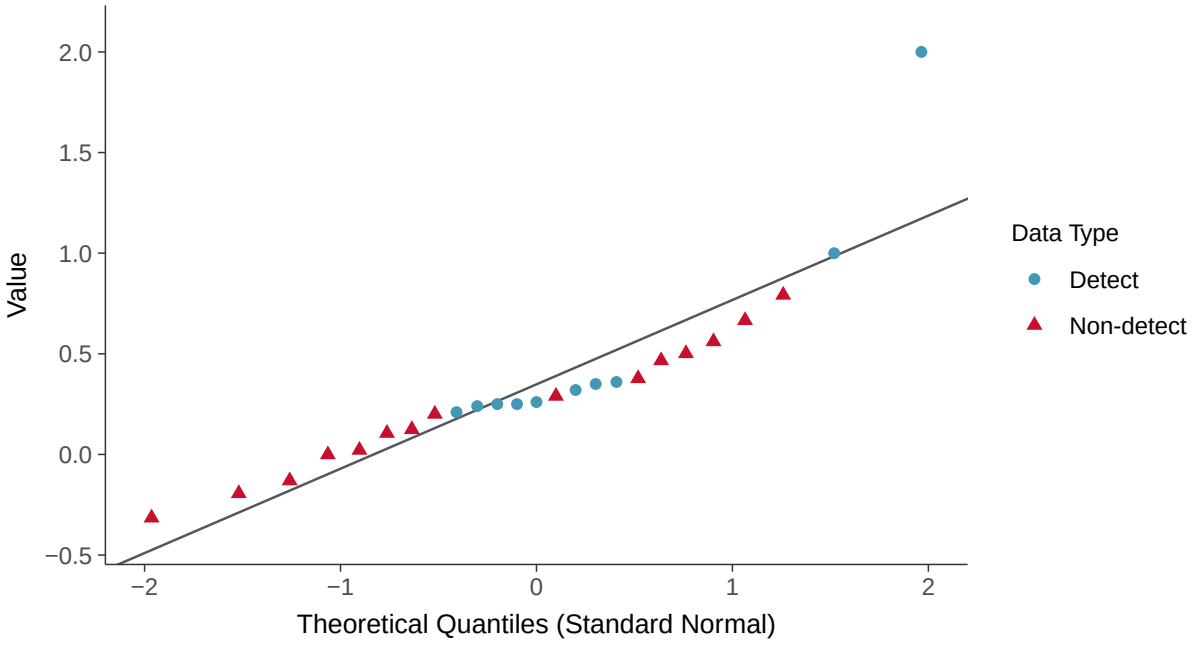
Boxplot by Season

Chromium, MW-15010 (ug/L)



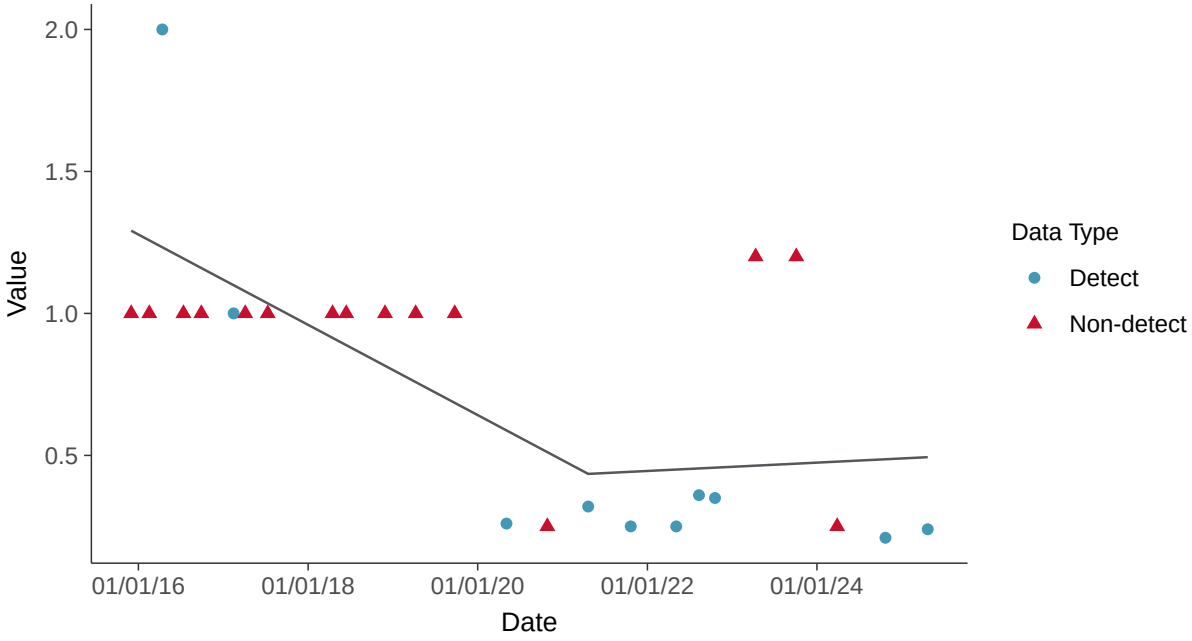
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15010 (ug/L)



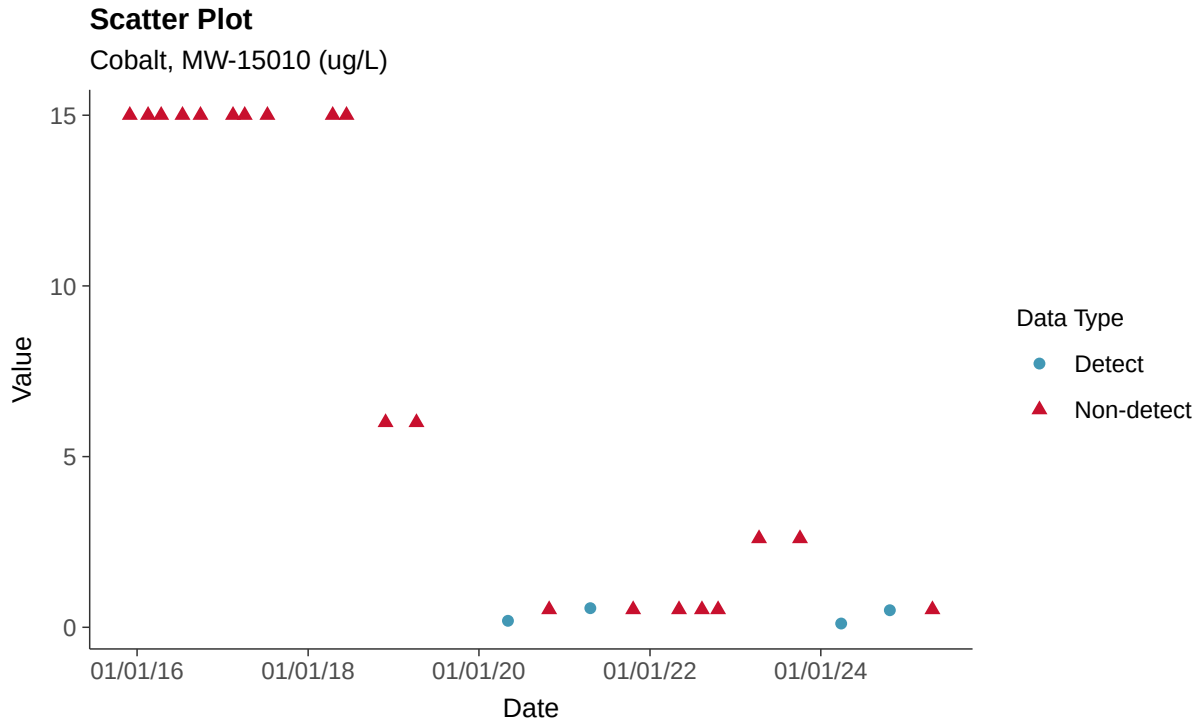
Trend Regression: Piecewise Linear-Linear

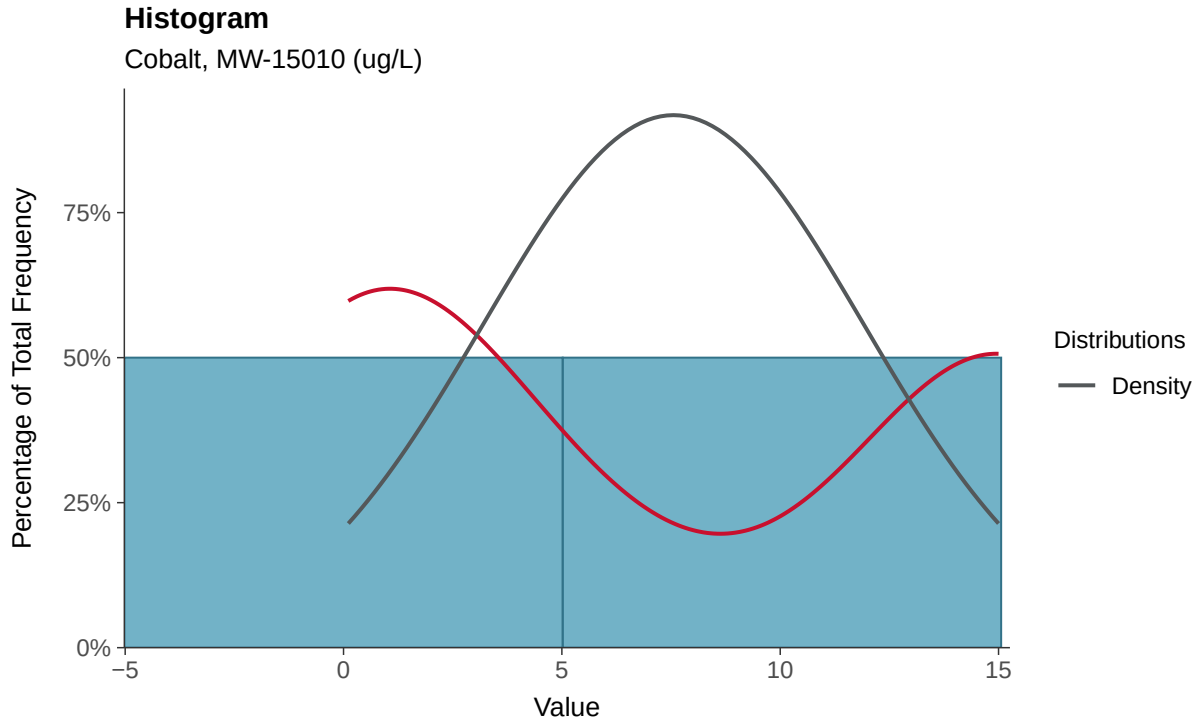
Chromium, MW-15010 (ug/L)



Appendix IV: Cobalt, MW-15010

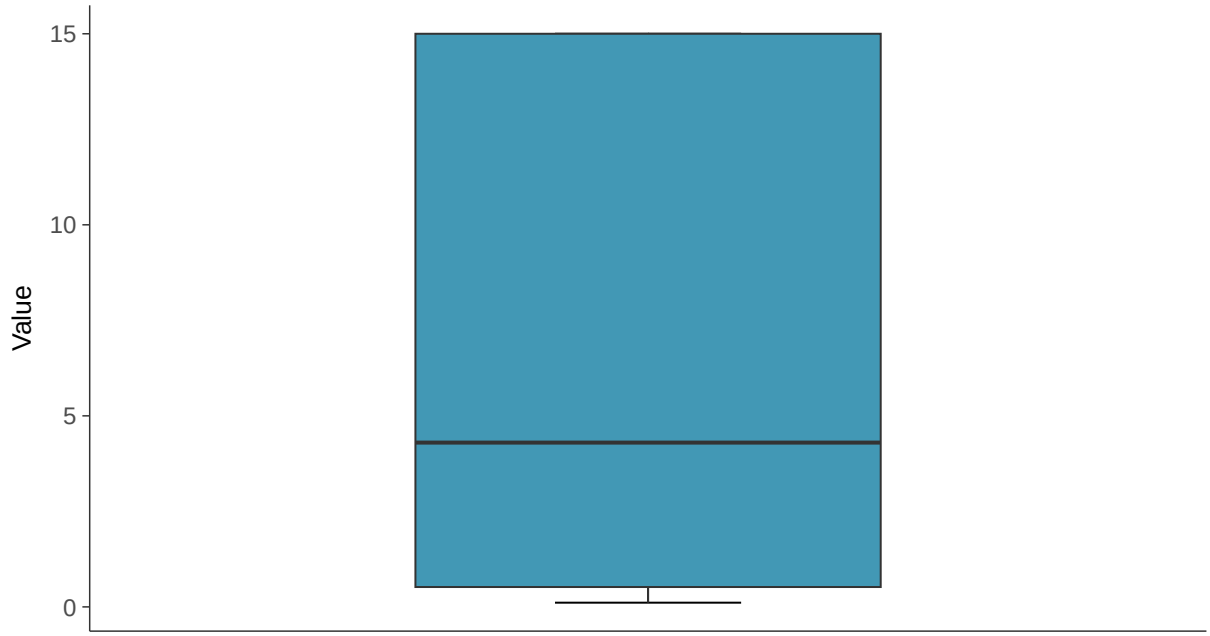
ID: 02_2_110





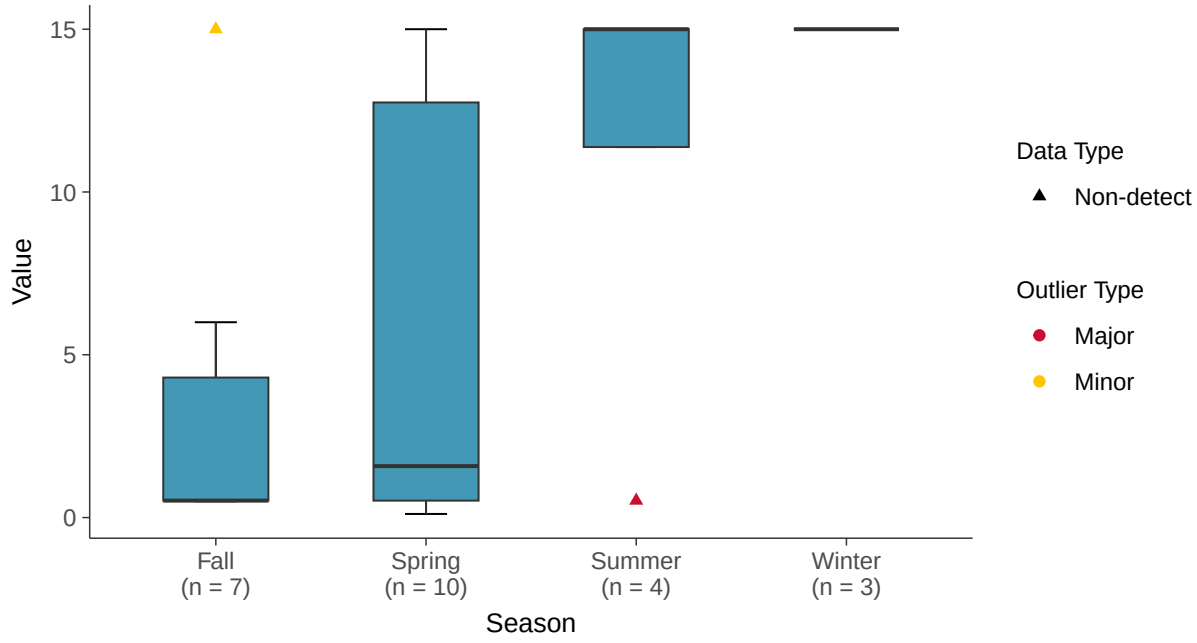
Boxplot

Cobalt, MW-15010 (ug/L)



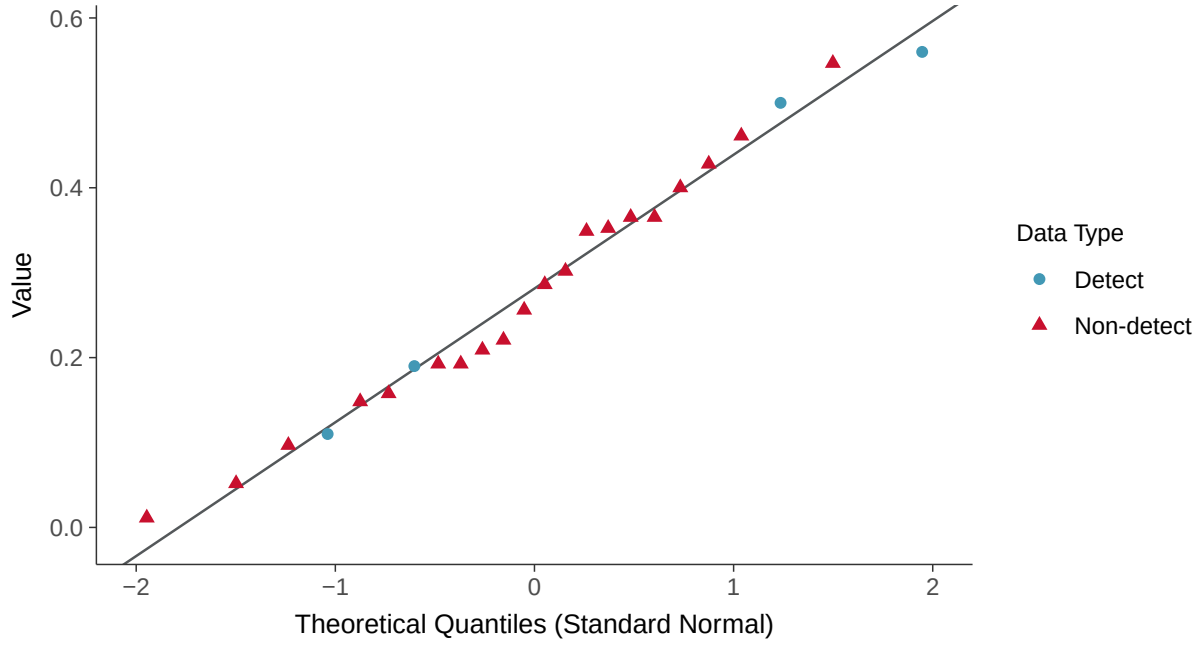
Boxplot by Season

Cobalt, MW-15010 (ug/L)



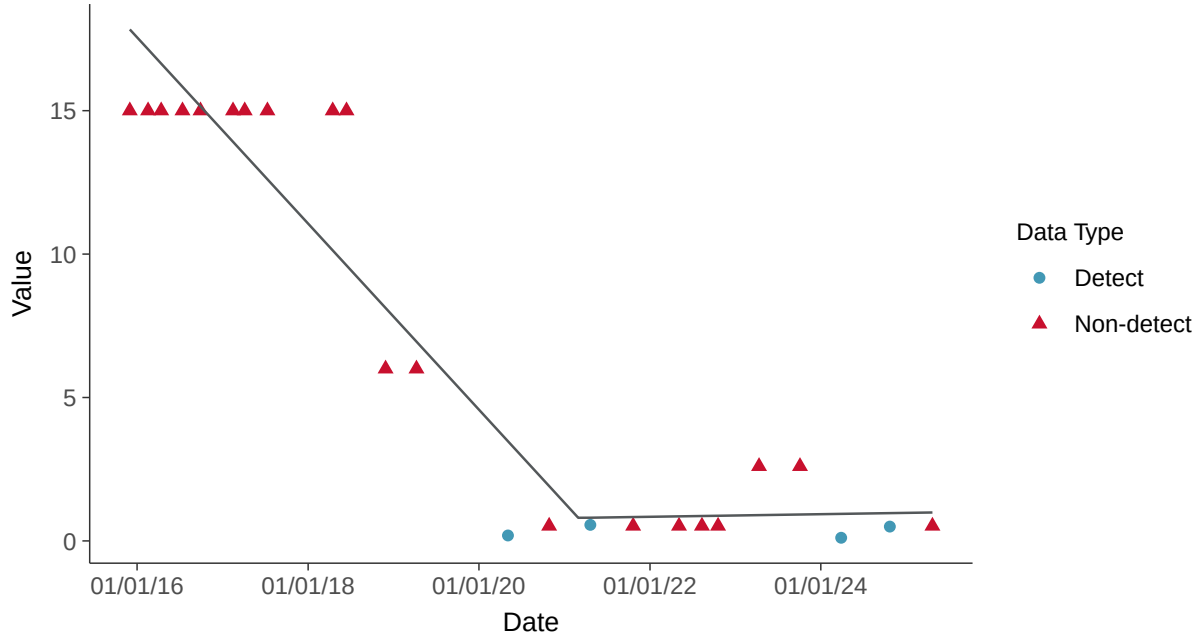
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15010 (ug/L)



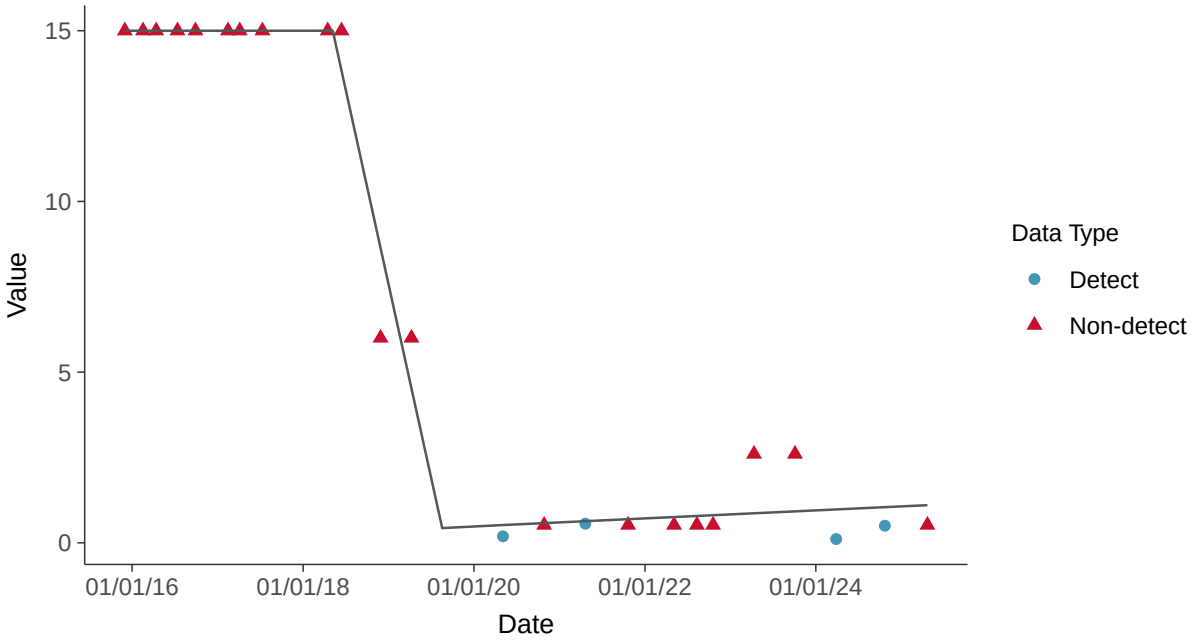
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15010 (ug/L)



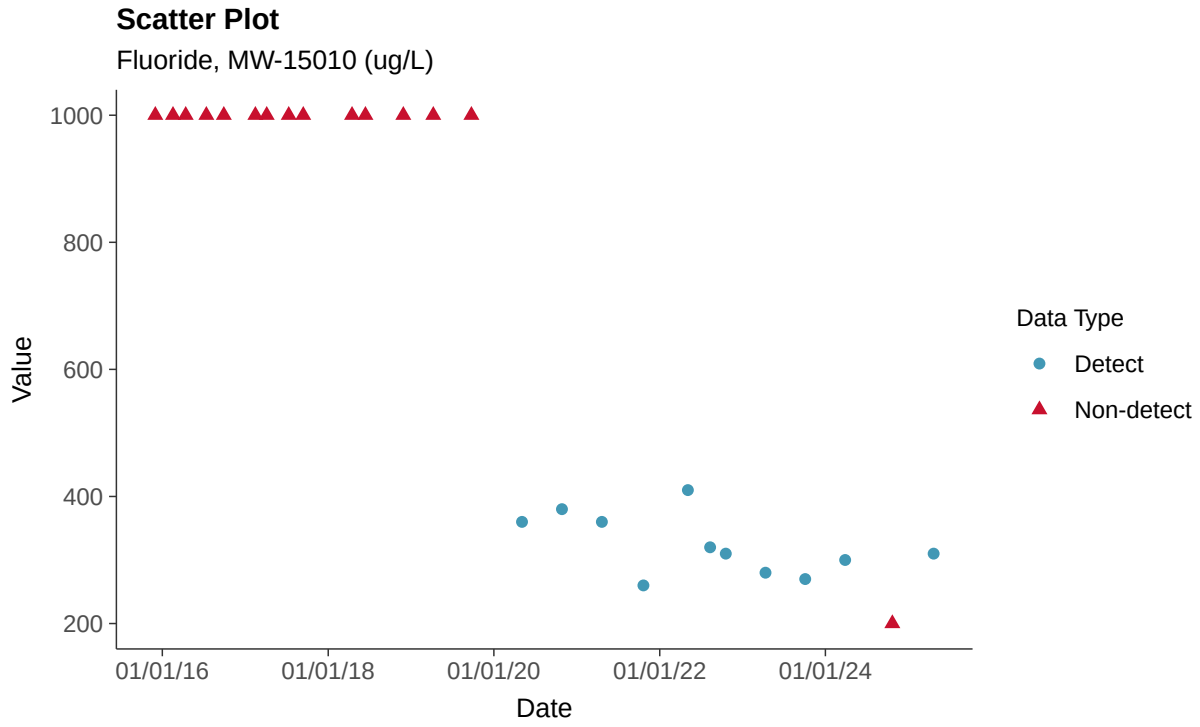
Trend Regression: Piecewise Linear-Linear-Linear

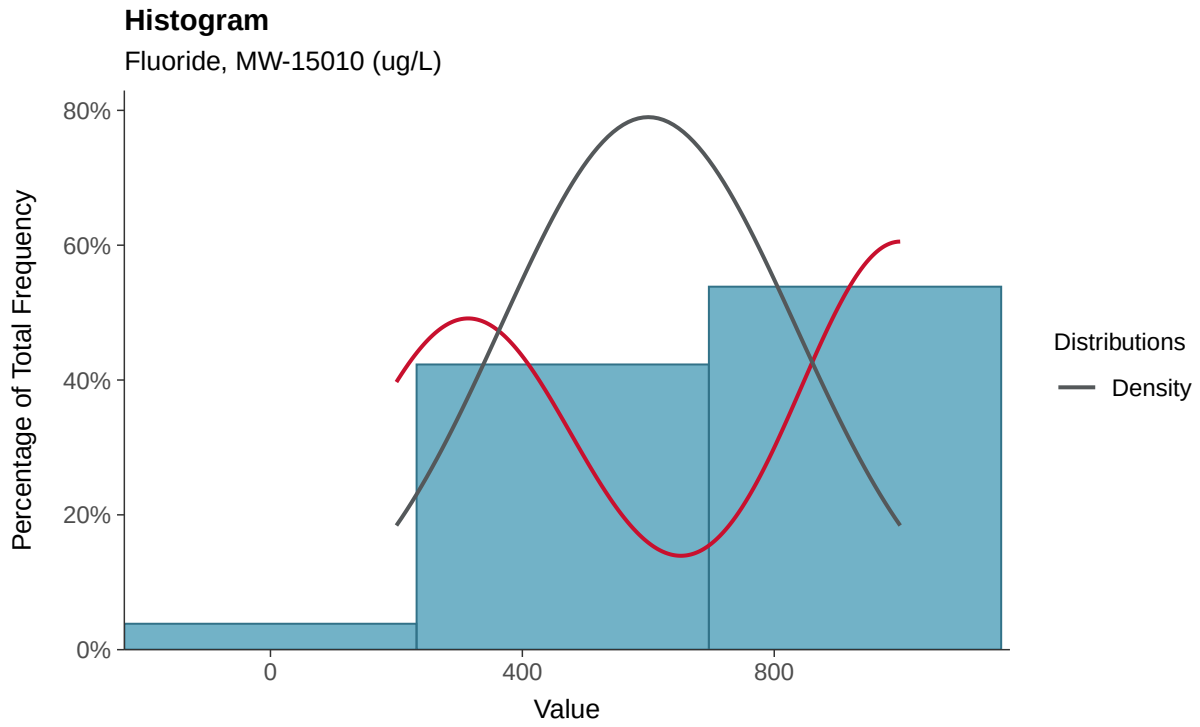
Cobalt, MW-15010 (ug/L)



Appendix IV: Fluoride, MW-15010

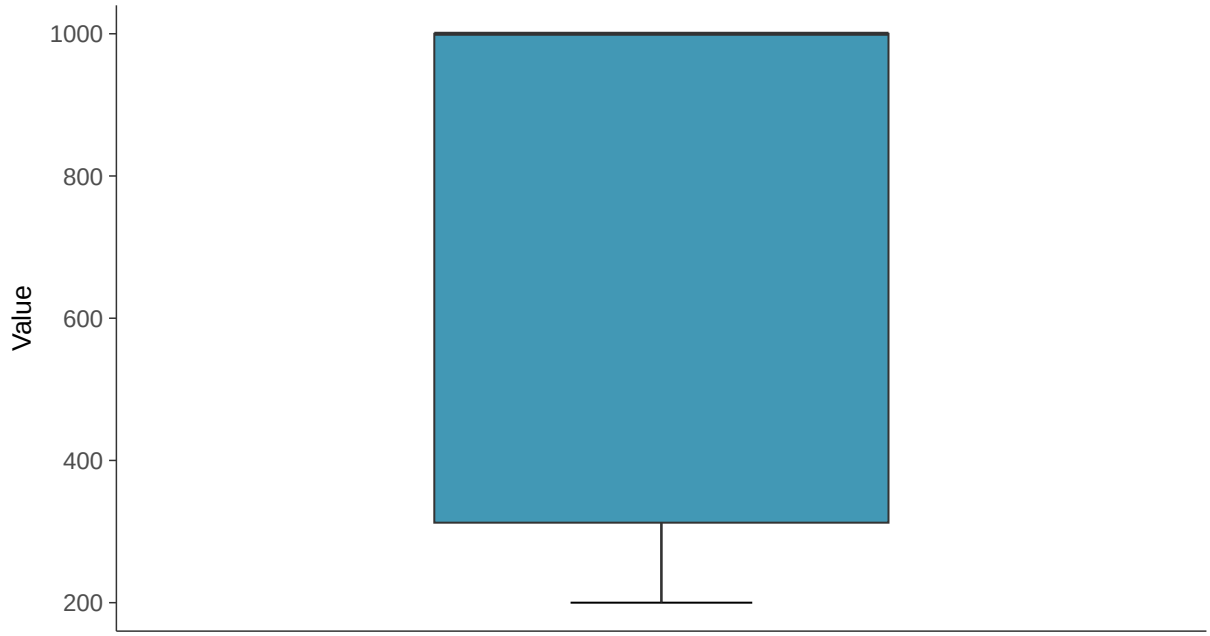
ID: 02_2_114





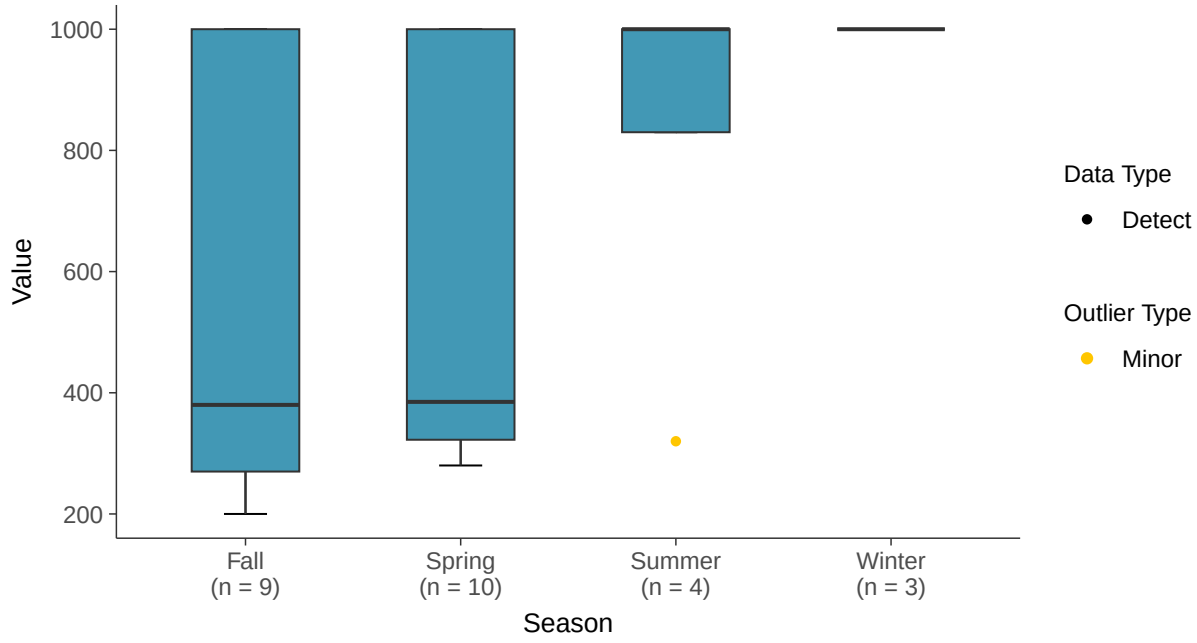
Boxplot

Fluoride, MW-15010 (ug/L)



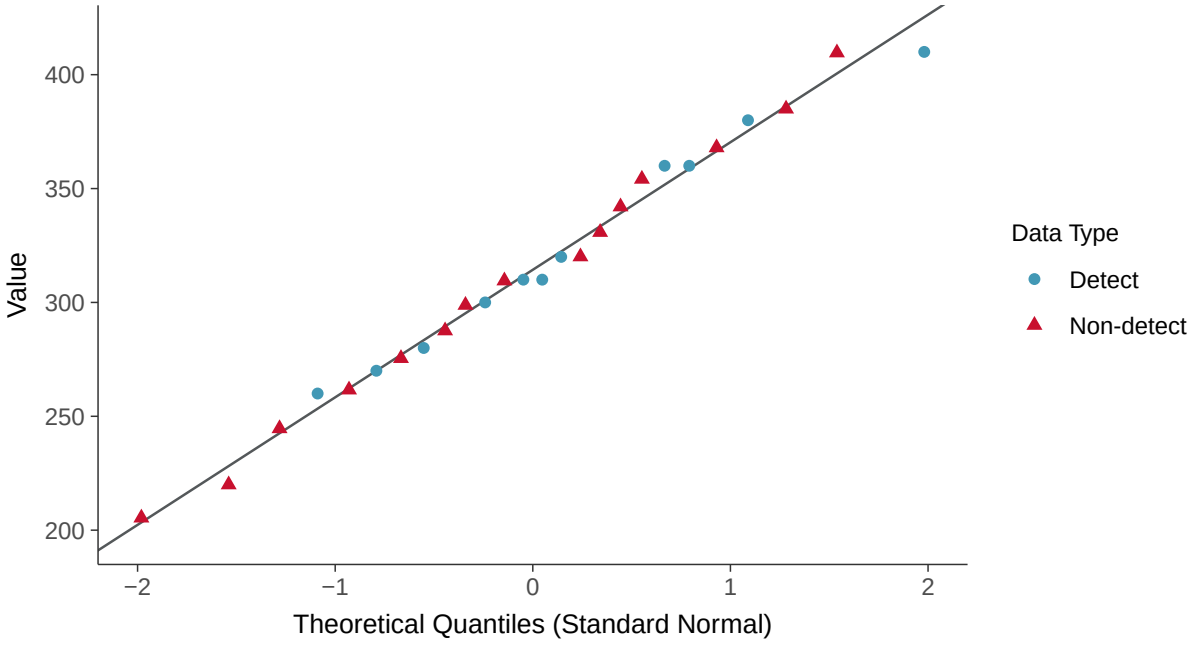
Boxplot by Season

Fluoride, MW-15010 (ug/L)



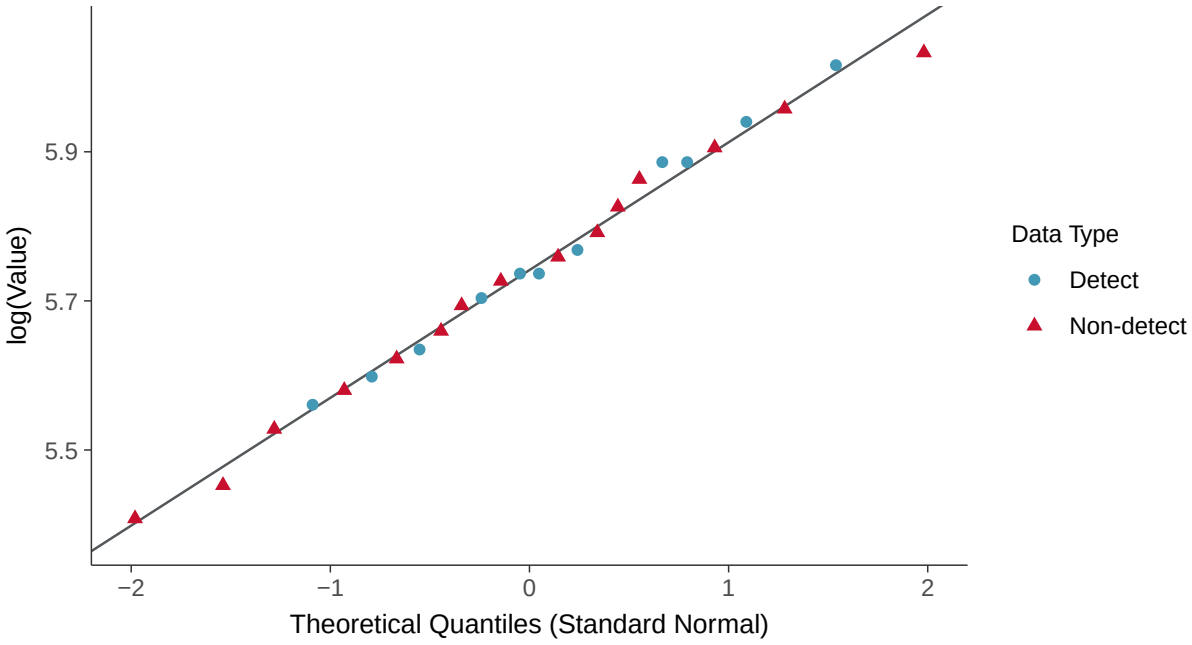
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15010 (ug/L)



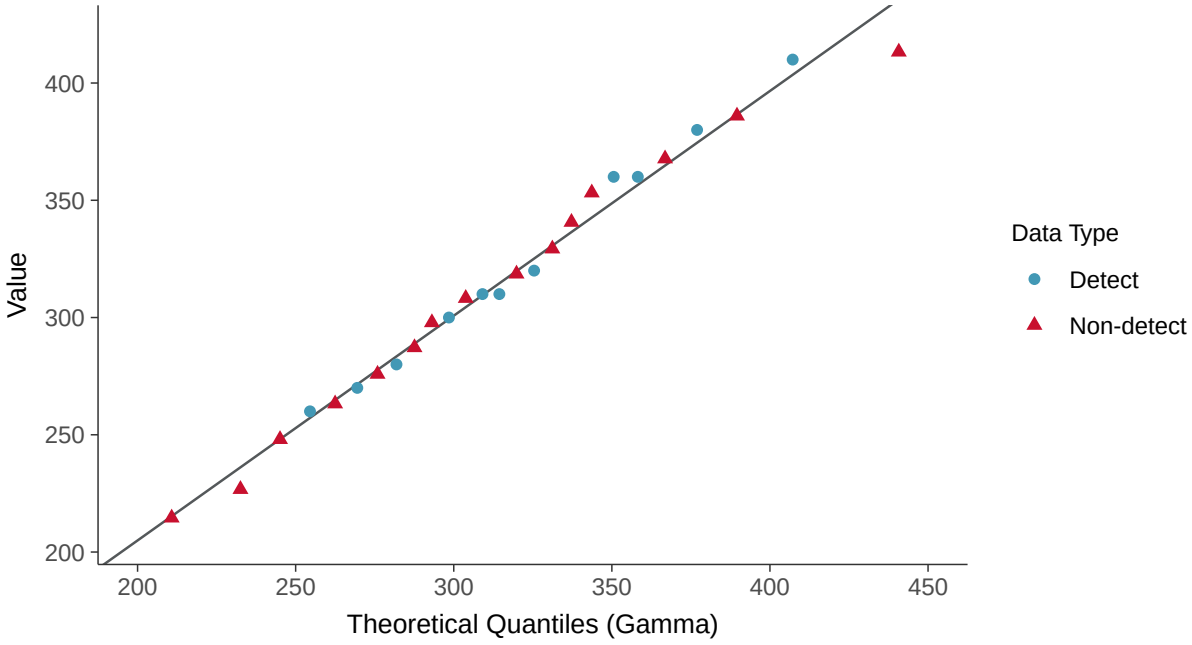
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15010 (ug/L)



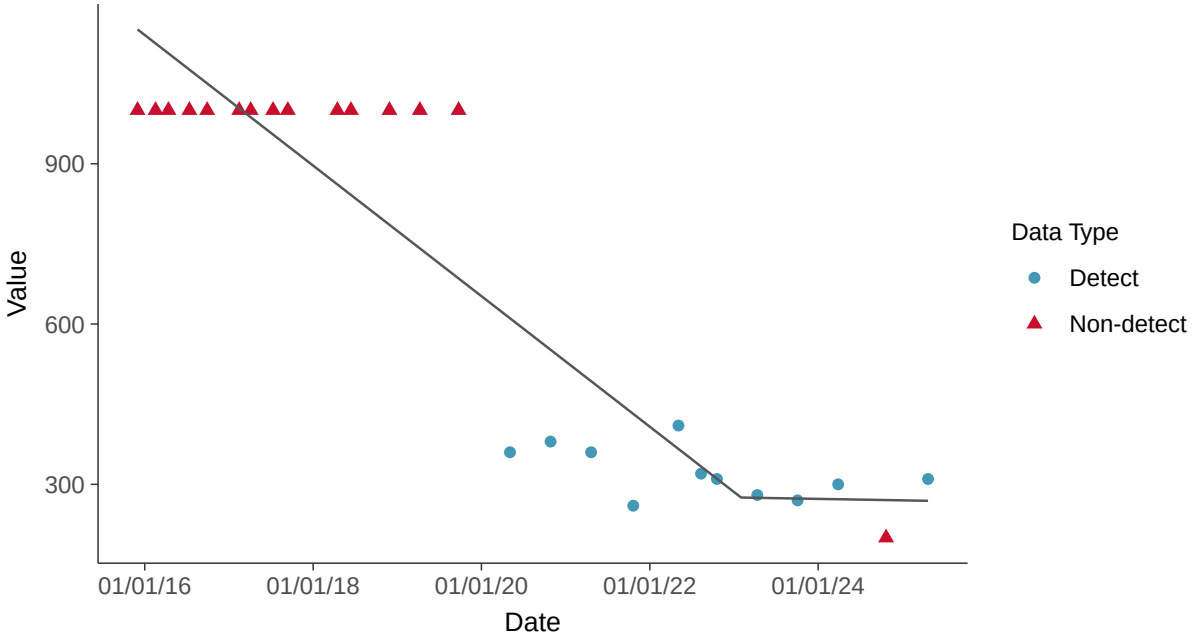
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15010 (ug/L)



Trend Regression: Piecewise Linear-Linear

Fluoride, MW-15010 (ug/L)

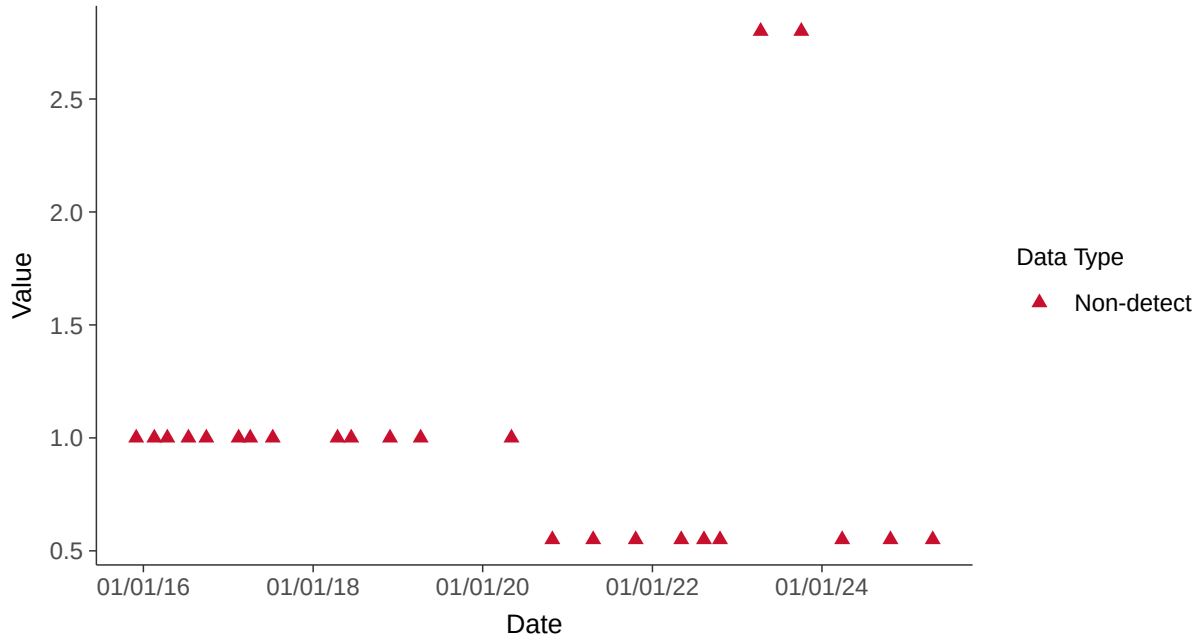


Appendix IV: Lead, MW-15010

ID: 02_2_116

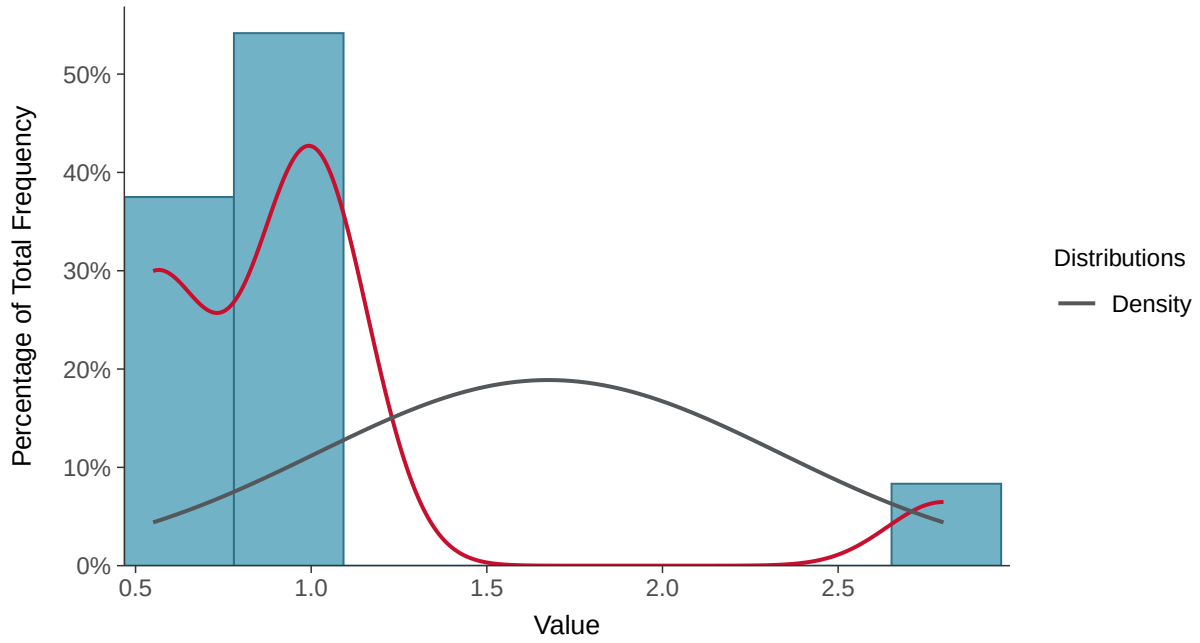
Scatter Plot

Lead, MW-15010 (ug/L)



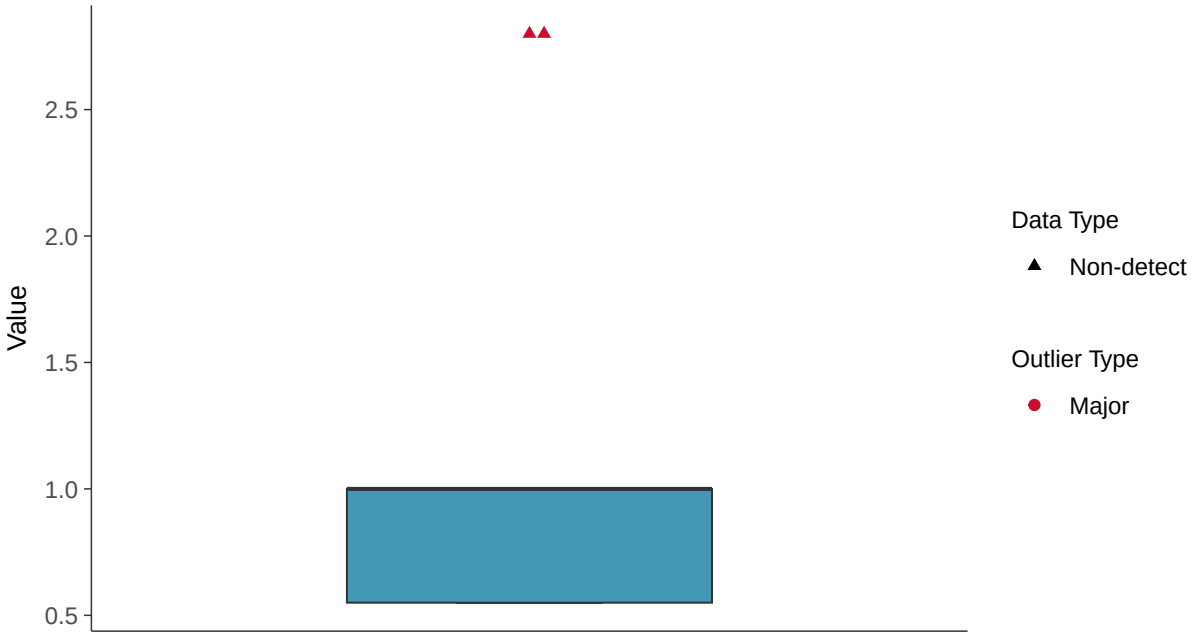
Histogram

Lead, MW-15010 (ug/L)



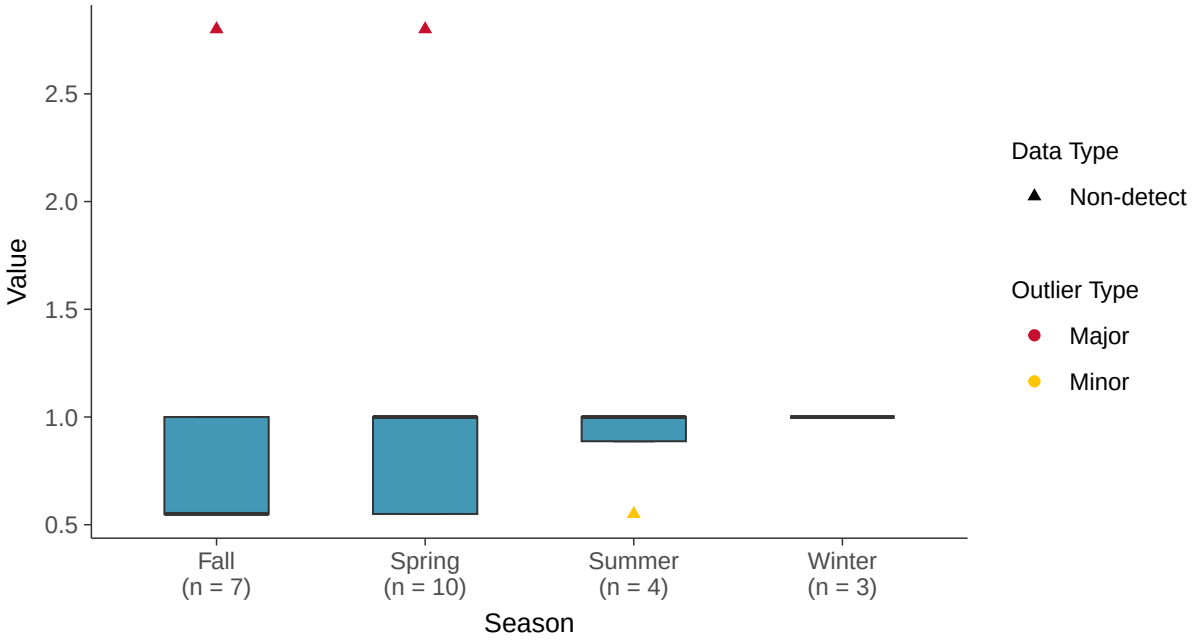
Boxplot

Lead, MW-15010 (ug/L)



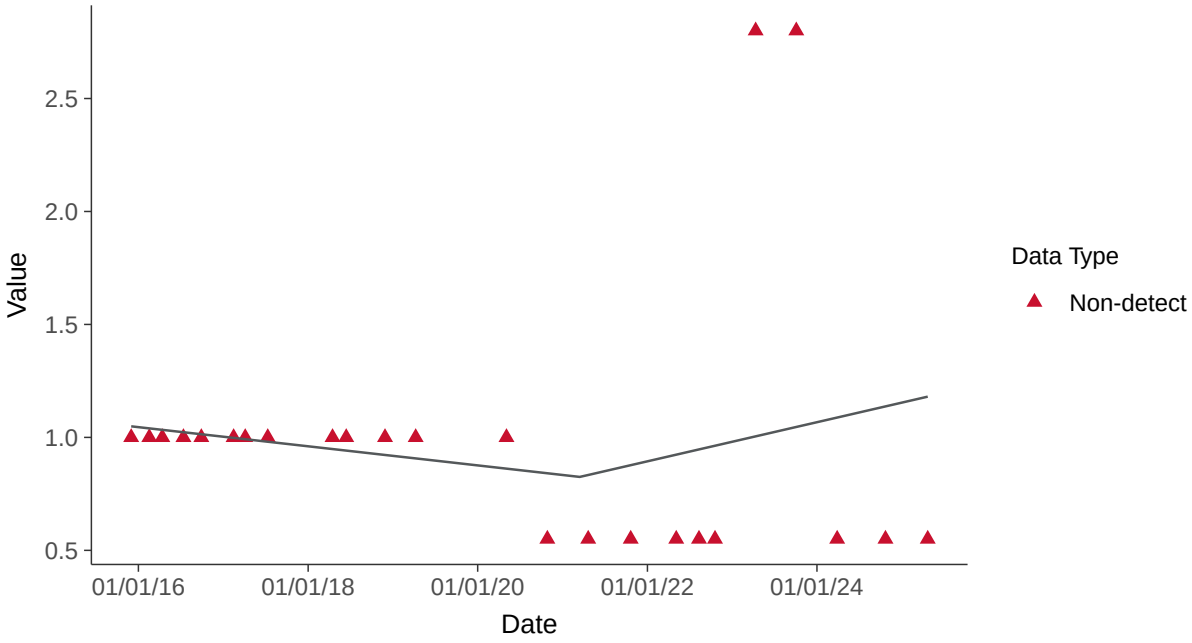
Boxplot by Season

Lead, MW-15010 (ug/L)



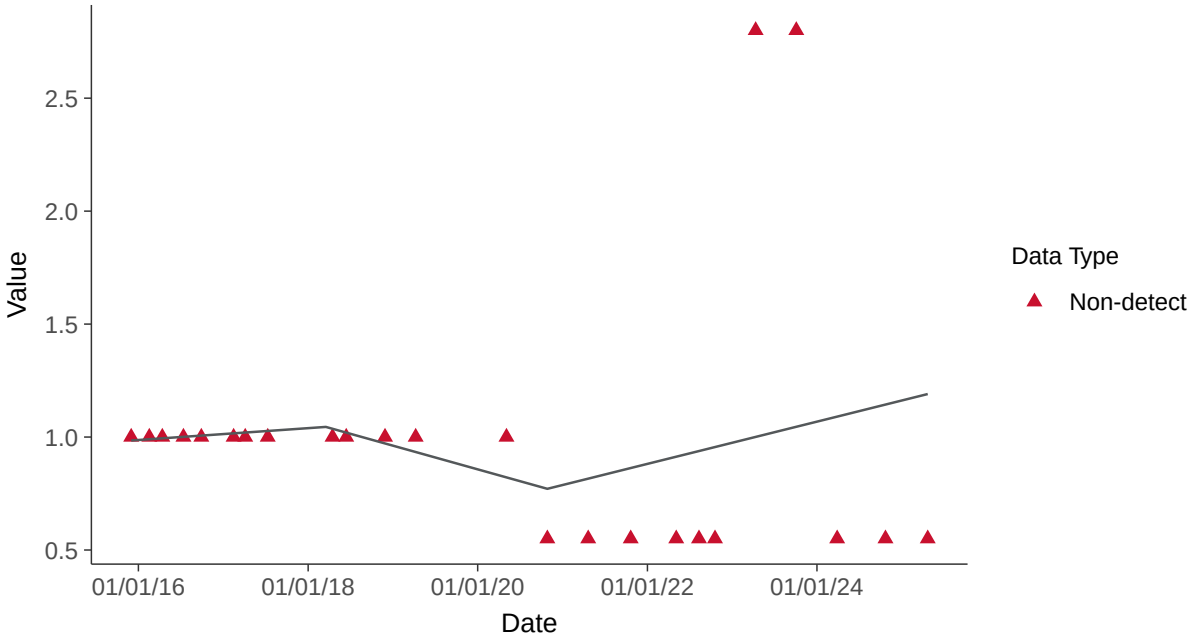
Trend Regression: Piecewise Linear-Linear

Lead, MW-15010 (ug/L)



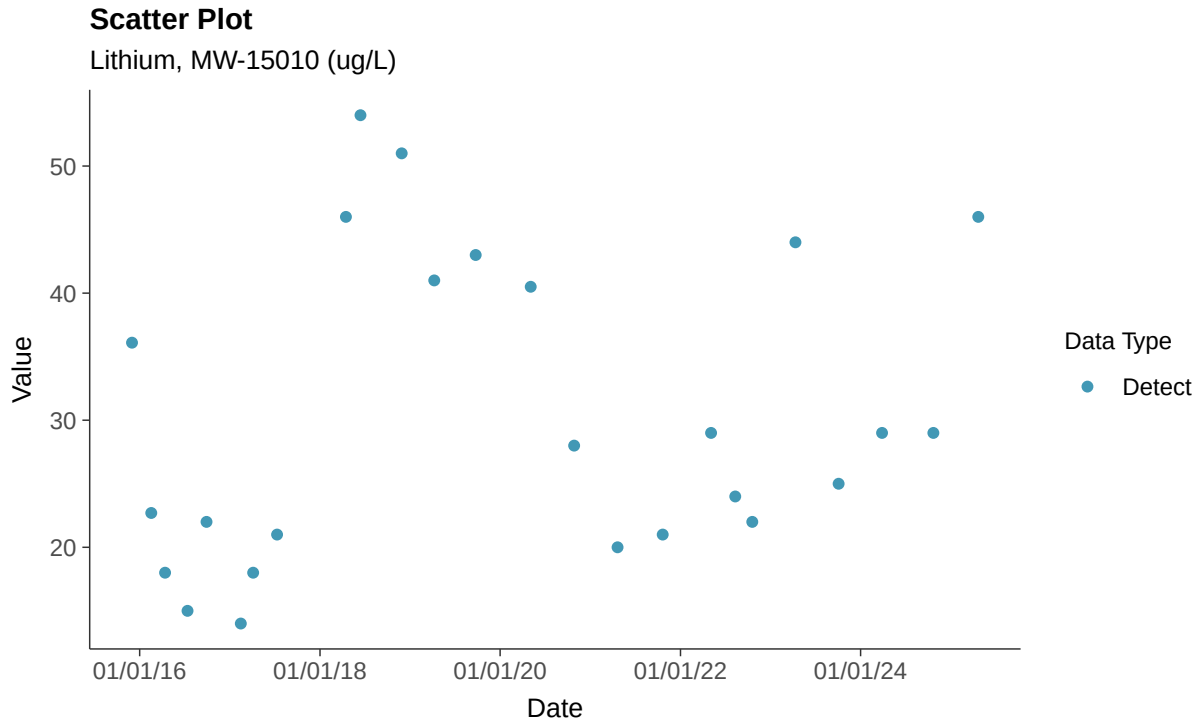
Trend Regression: Piecewise Linear-Linear-Linear

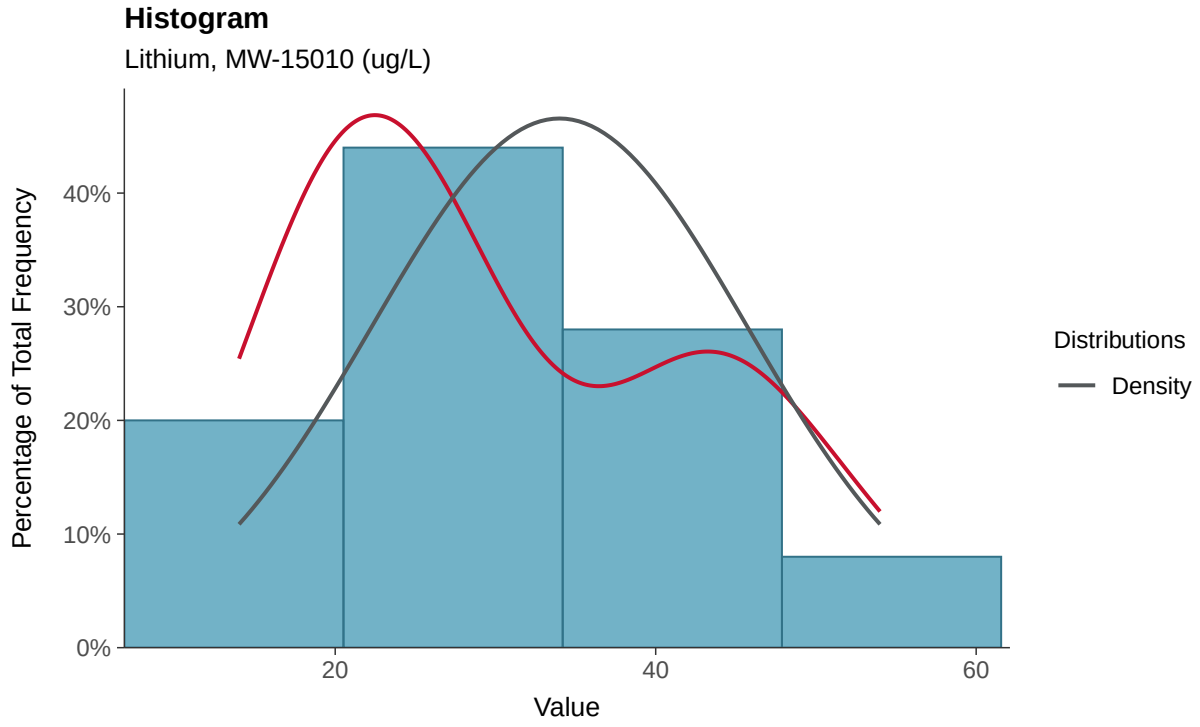
Lead, MW-15010 (ug/L)



Appendix IV: Lithium, MW-15010

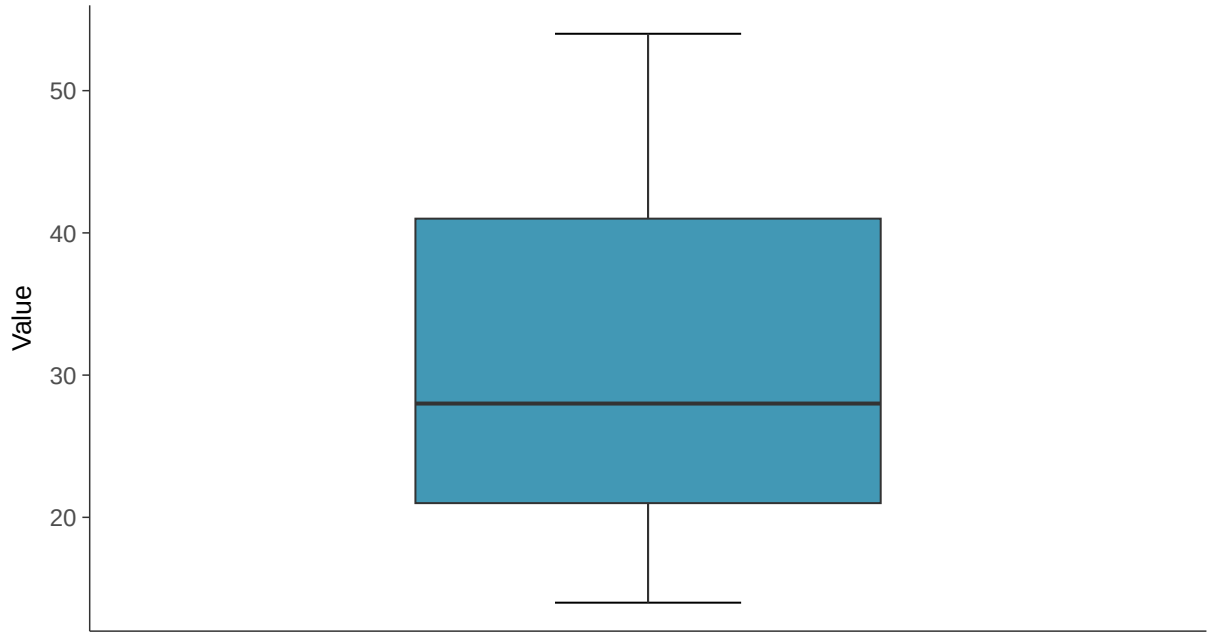
ID: 02_2_117





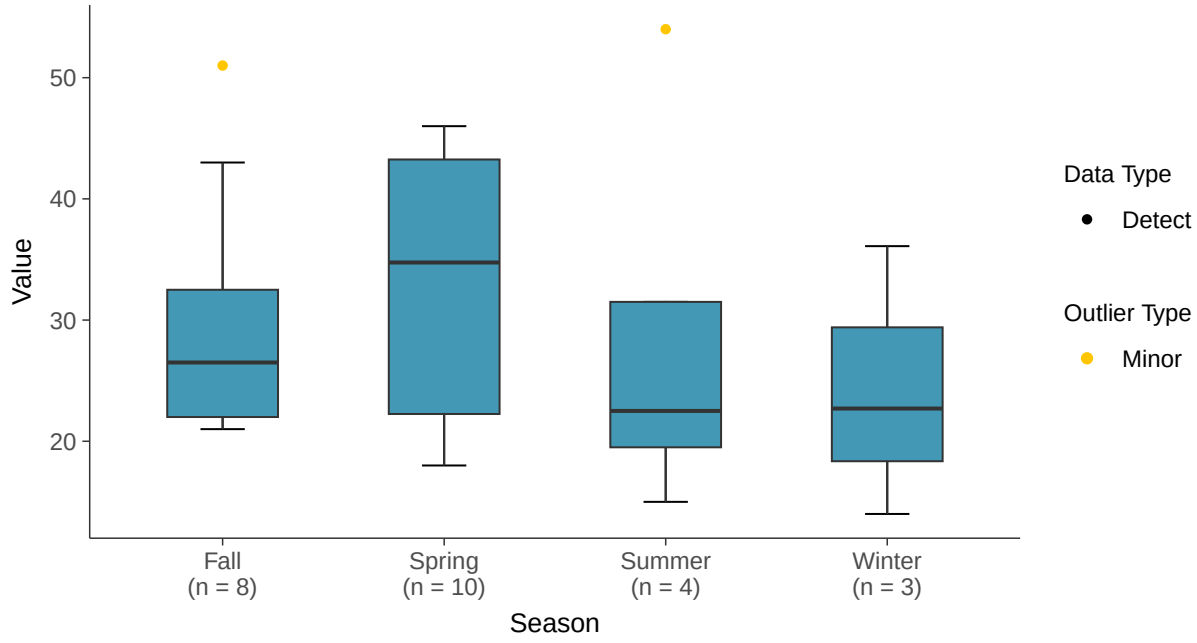
Boxplot

Lithium, MW-15010 (ug/L)



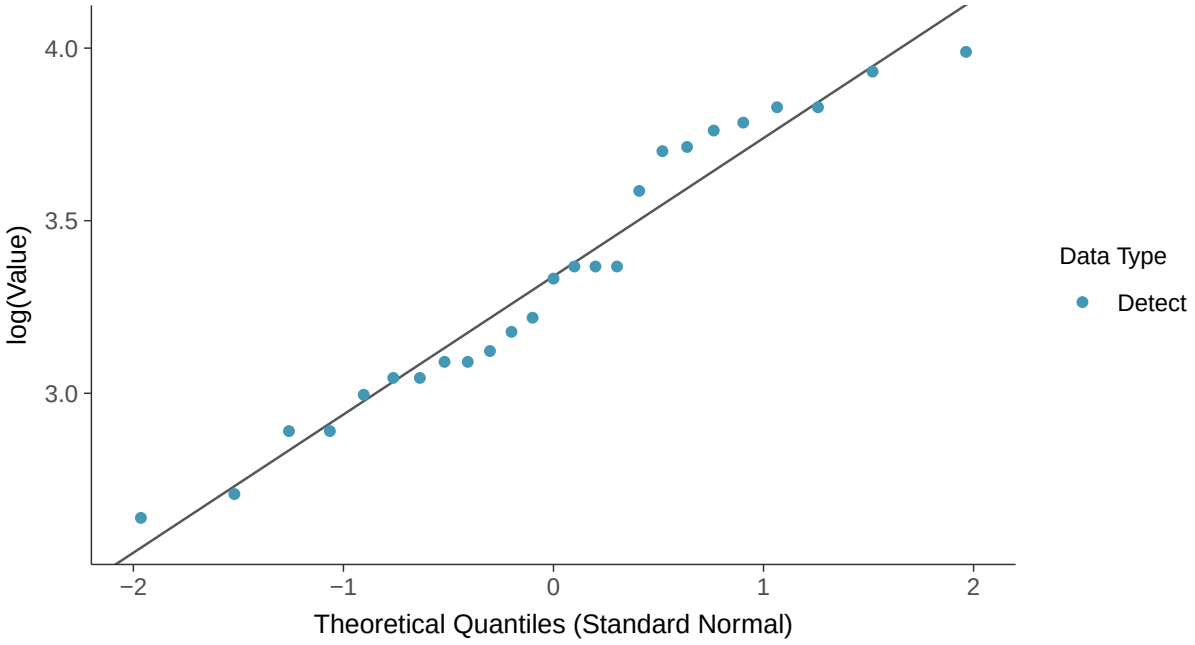
Boxplot by Season

Lithium, MW-15010 (ug/L)



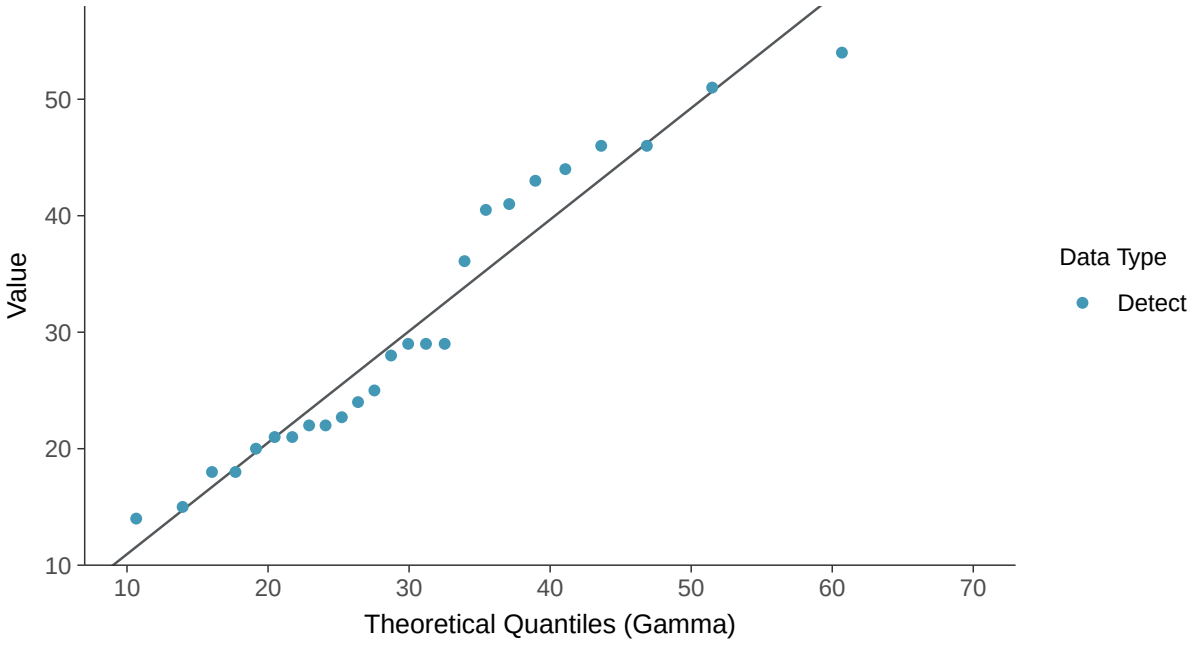
Lognormal Q-Q plot

Lithium, MW-15010 (ug/L)



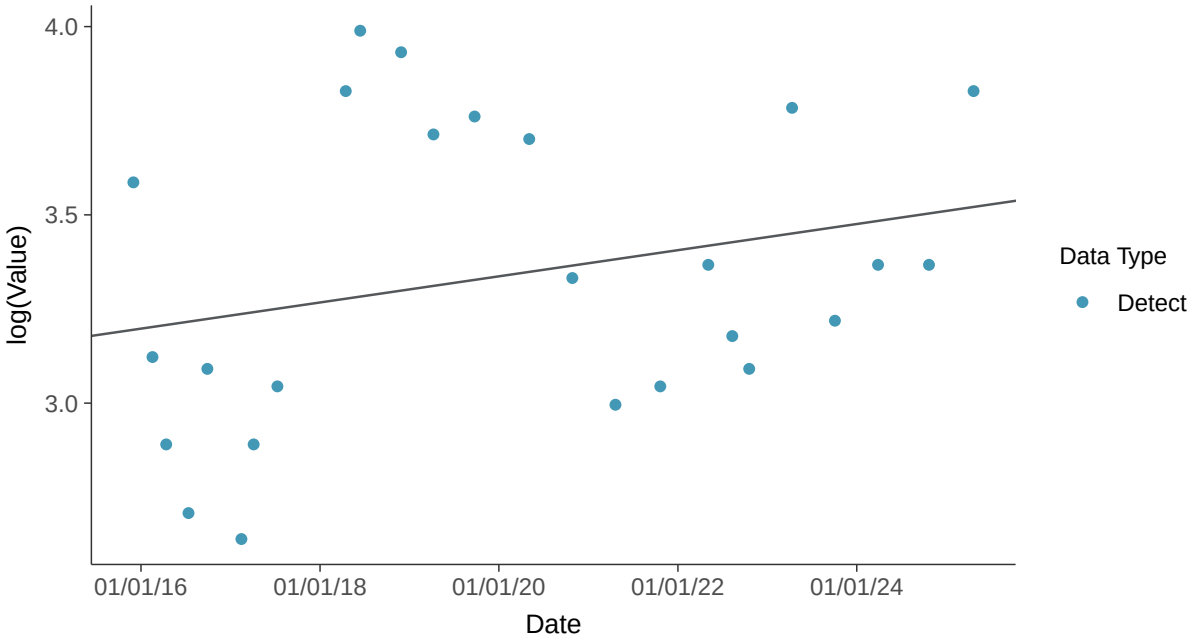
Gamma Q-Q plot

Lithium, MW-15010 (ug/L)



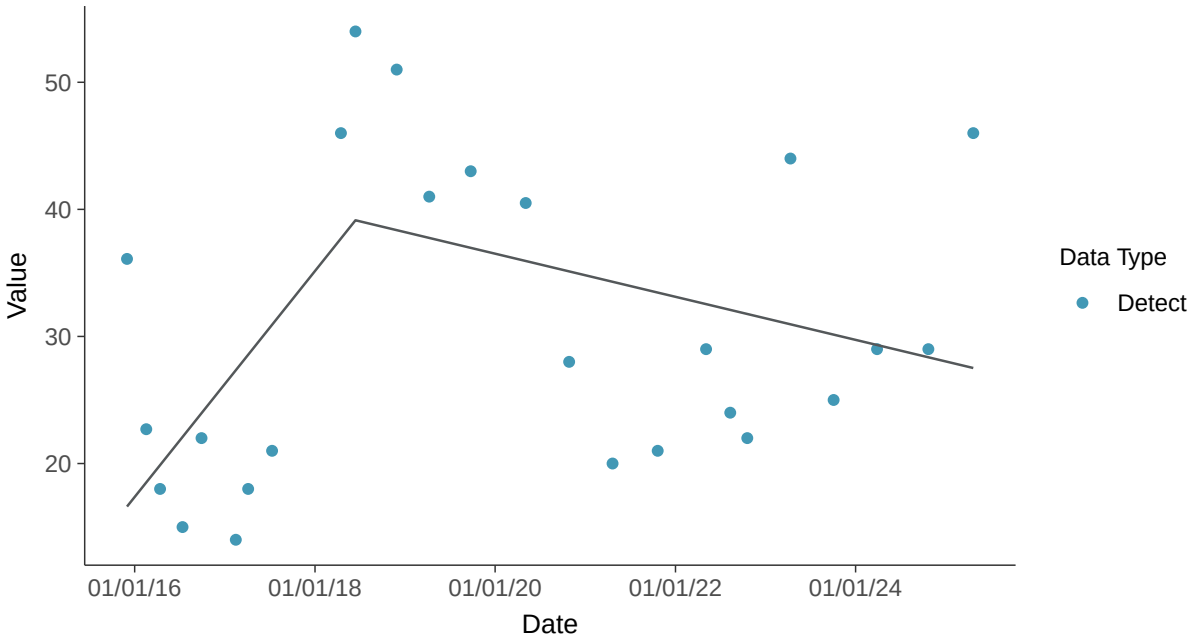
Trend Regression: Lognormal MLE

Lithium, MW-15010 (ug/L)



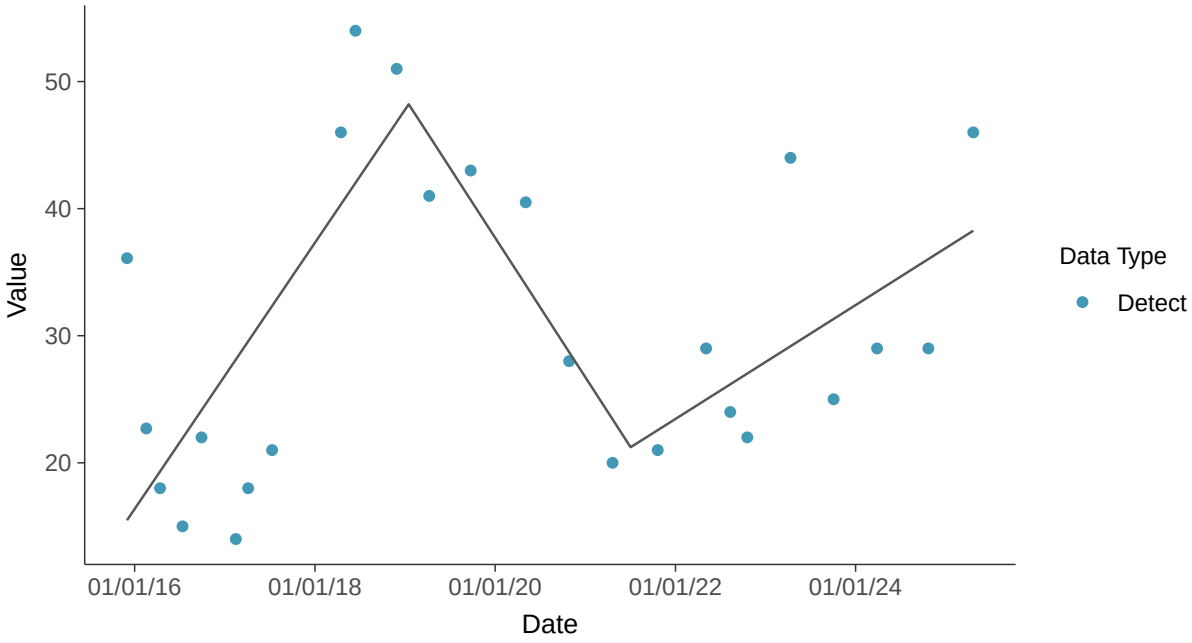
Trend Regression: Piecewise Linear-Linear

Lithium, MW-15010 (ug/L)



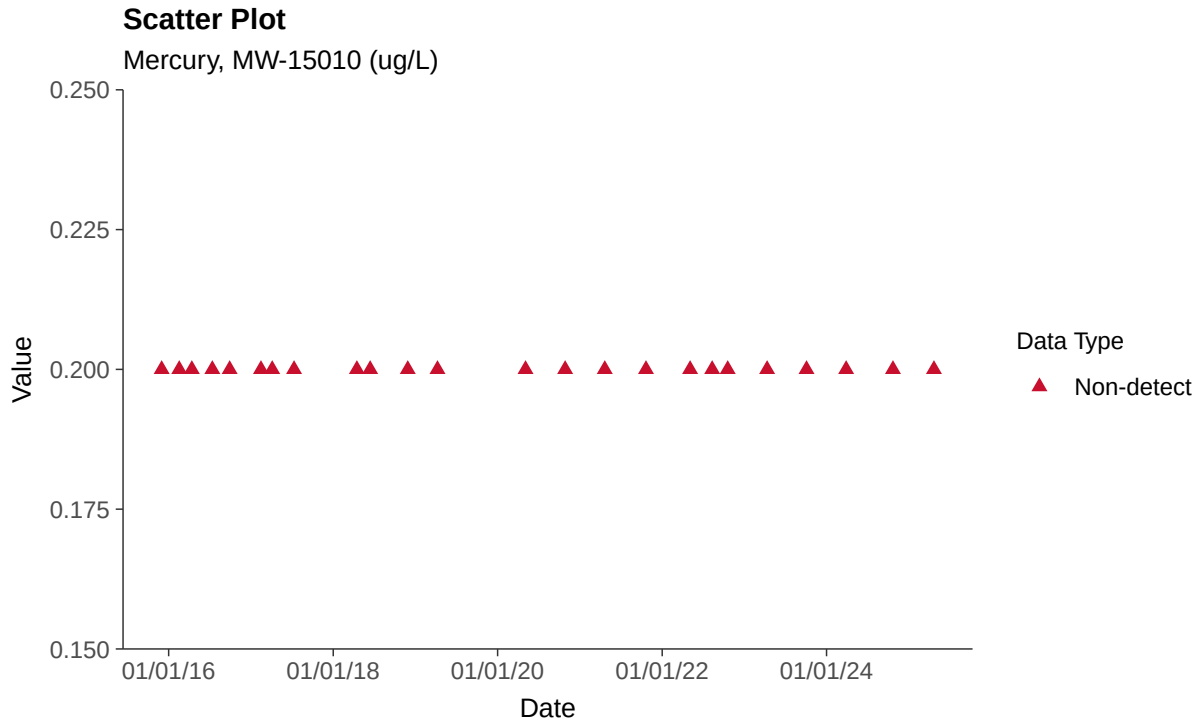
Trend Regression: Piecewise Linear-Linear-Linear

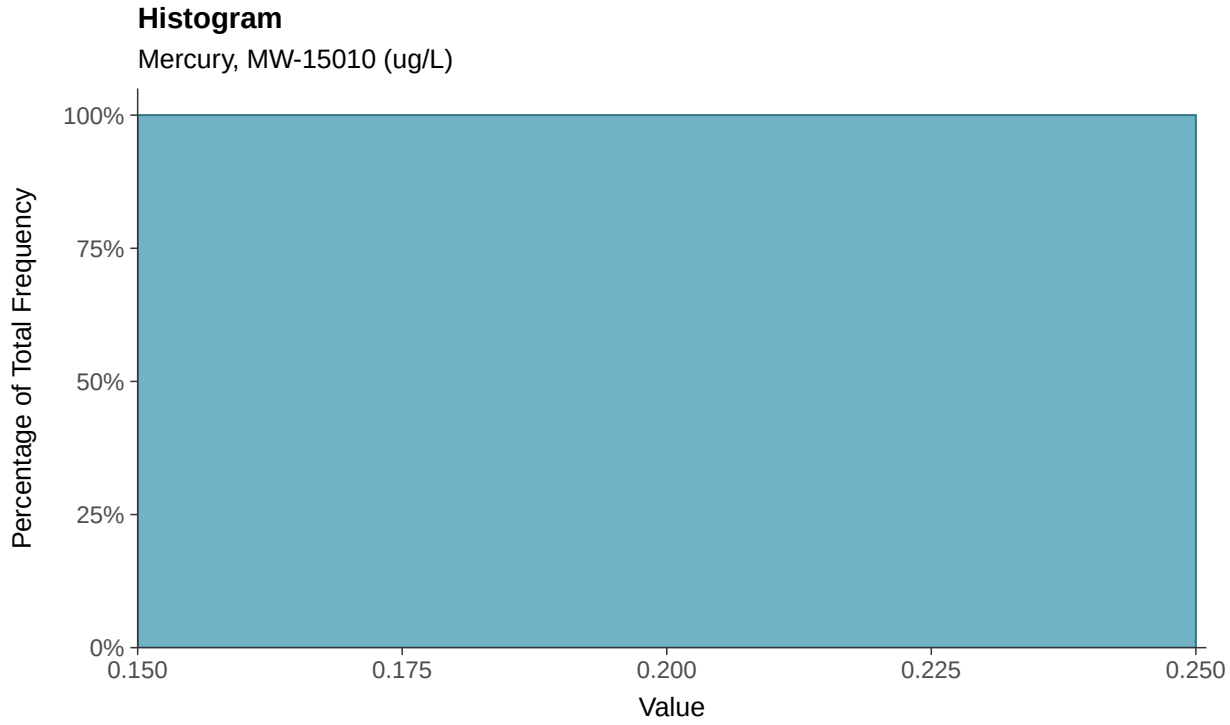
Lithium, MW-15010 (ug/L)



Appendix IV: Mercury, MW-15010

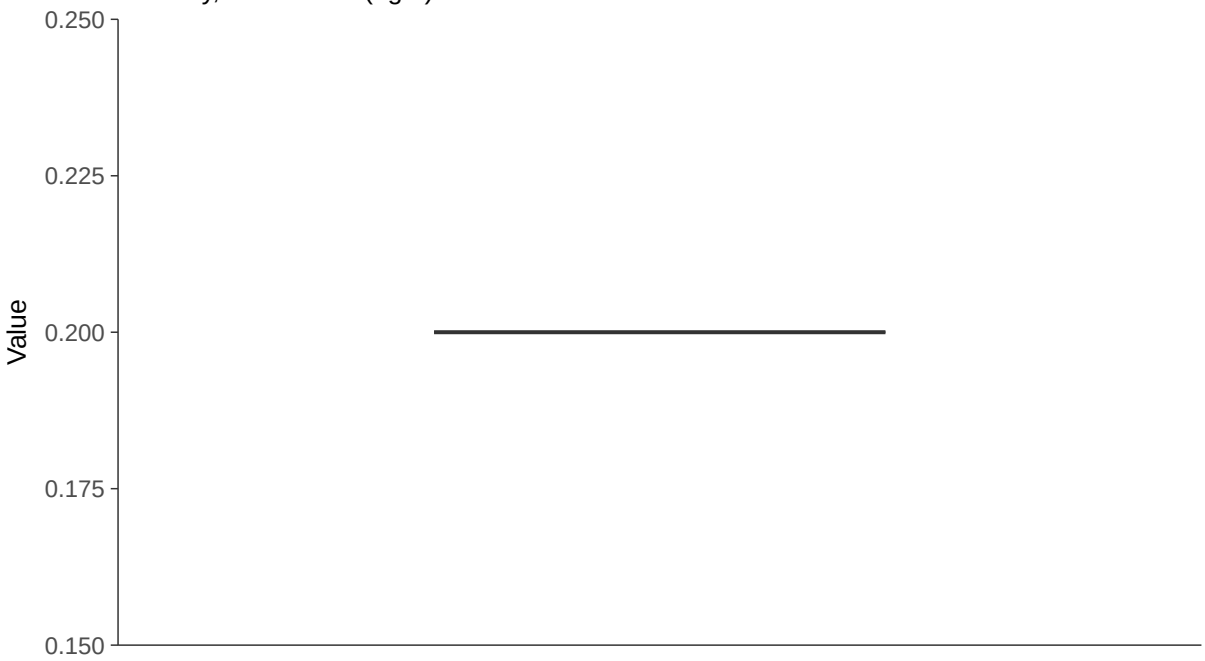
ID: 02_2_118





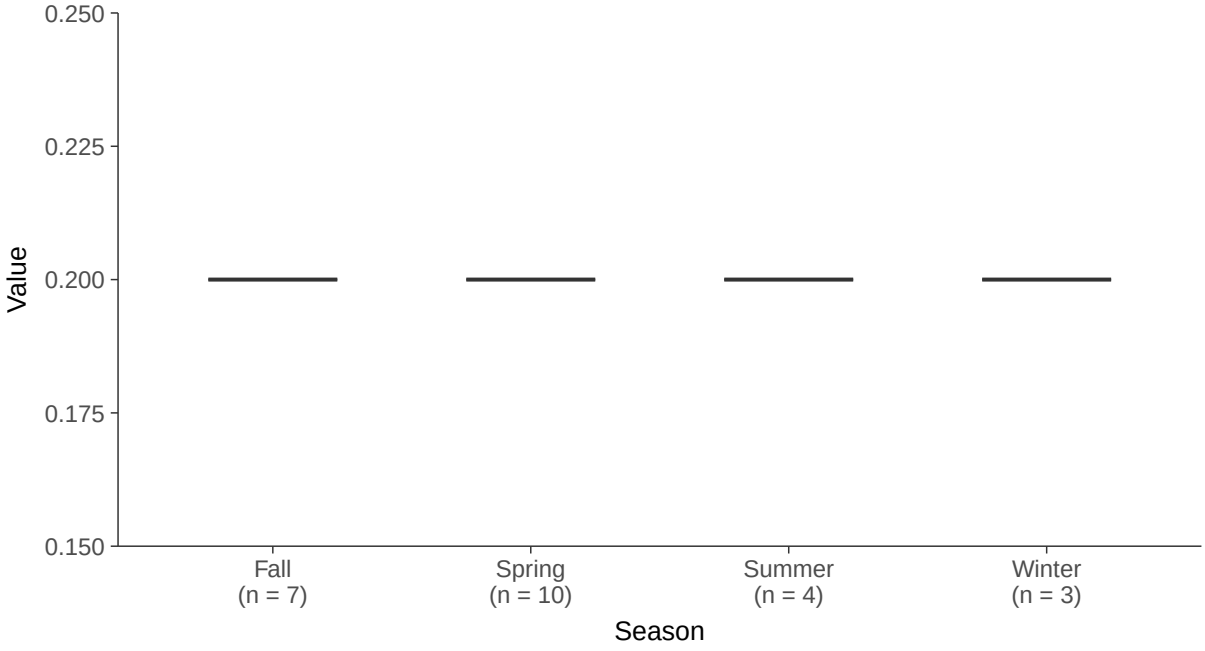
Boxplot

Mercury, MW-15010 (ug/L)



Boxplot by Season

Mercury, MW-15010 (ug/L)

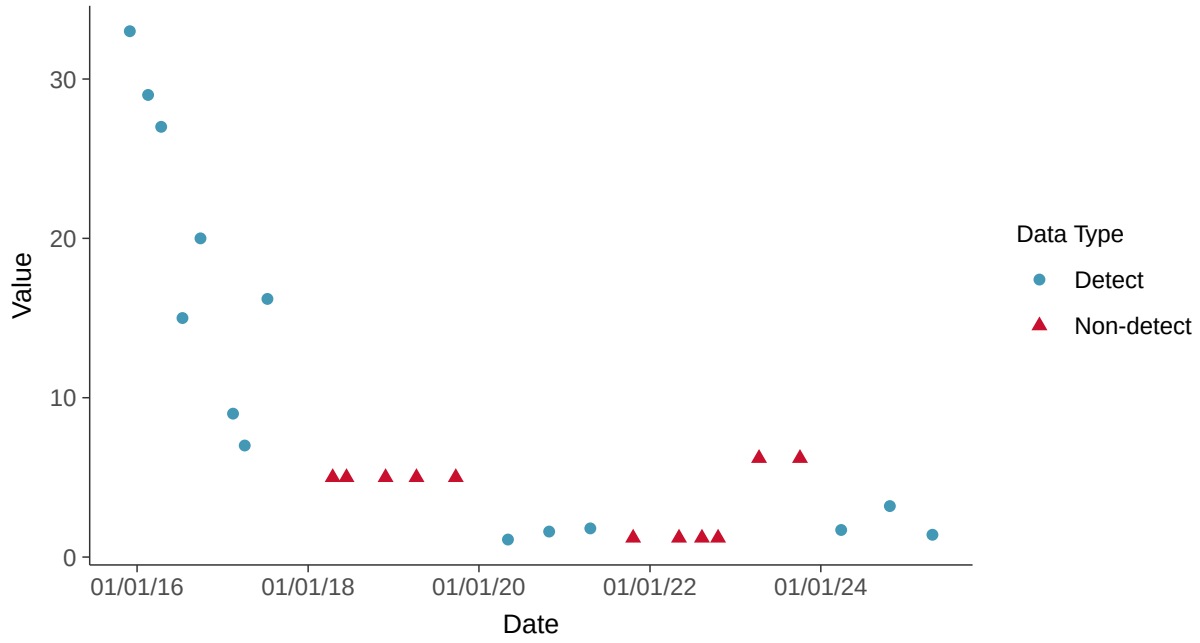


Appendix IV: Molybdenum, MW-15010

ID: 02_2_119

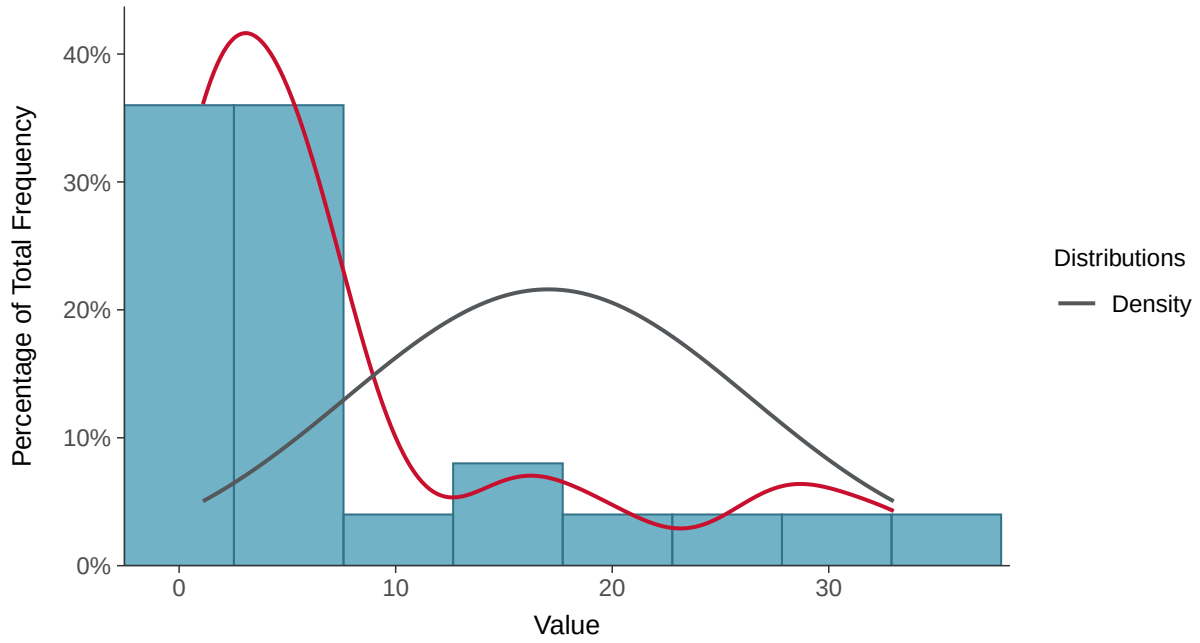
Scatter Plot

Molybdenum, MW-15010 (ug/L)



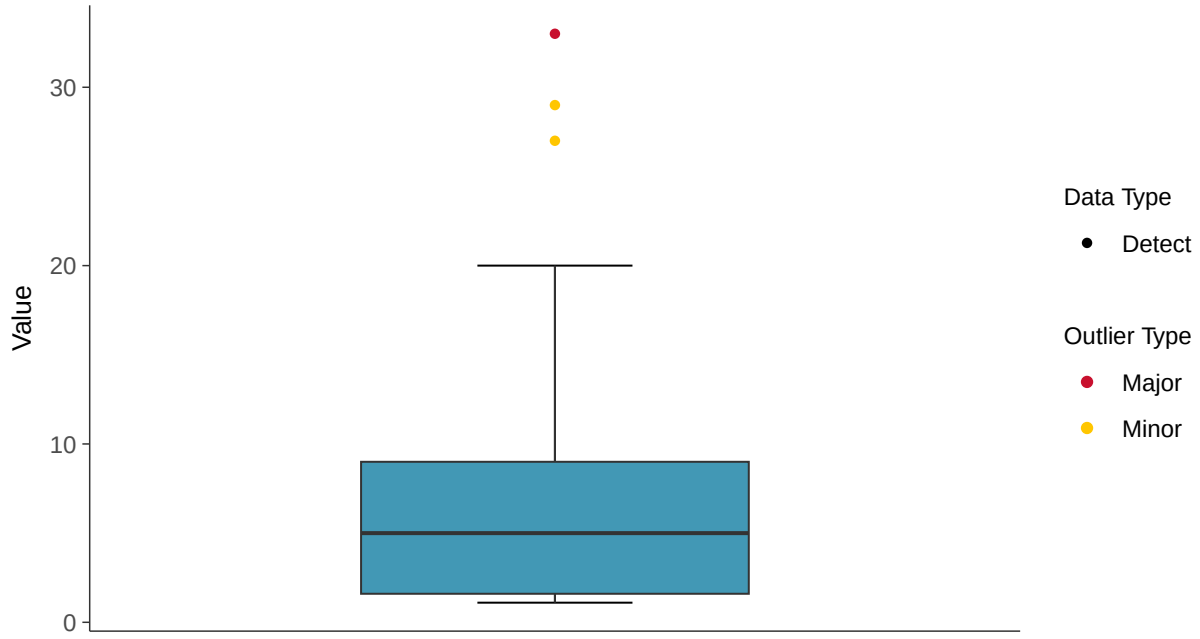
Histogram

Molybdenum, MW-15010 (ug/L)



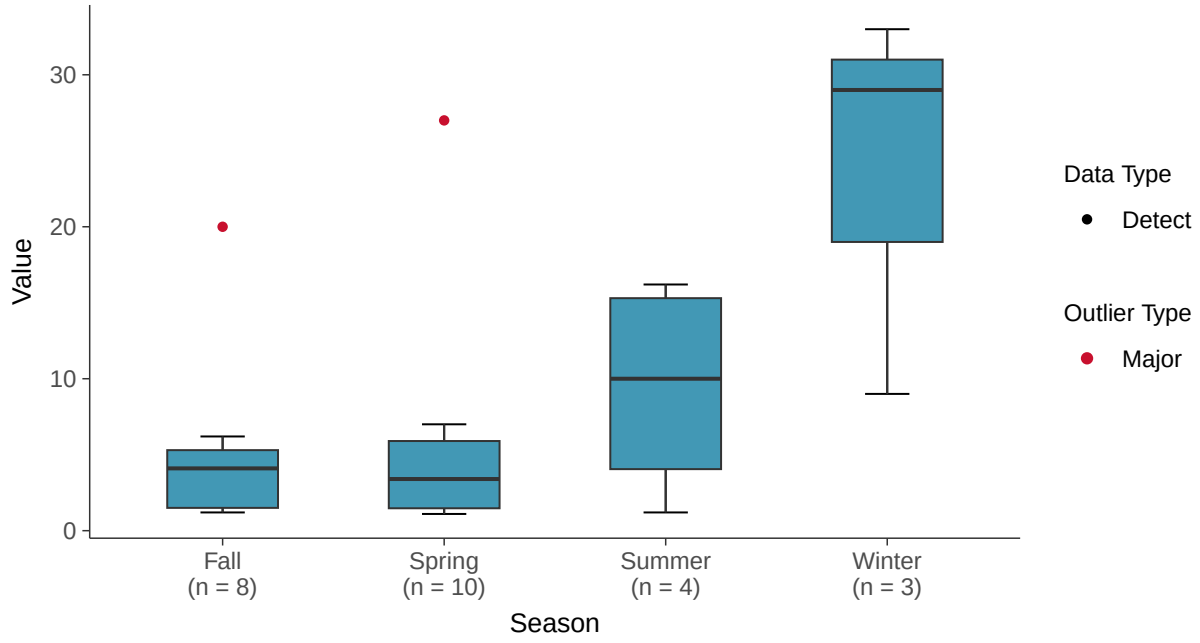
Boxplot

Molybdenum, MW-15010 (ug/L)



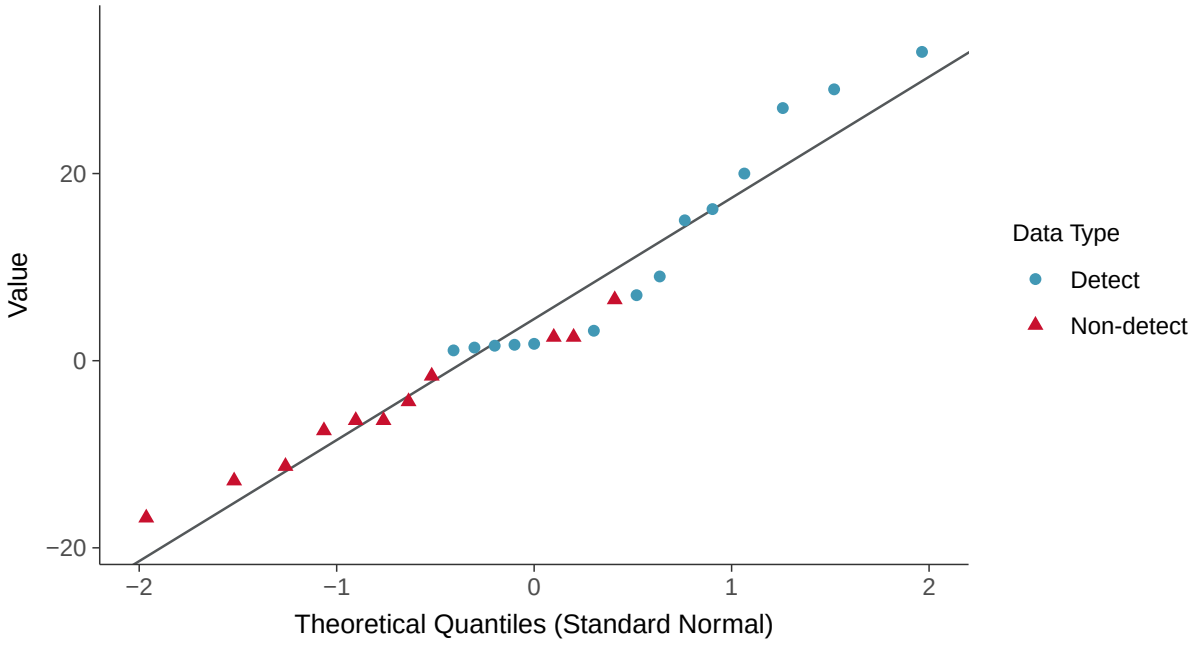
Boxplot by Season

Molybdenum, MW-15010 (ug/L)



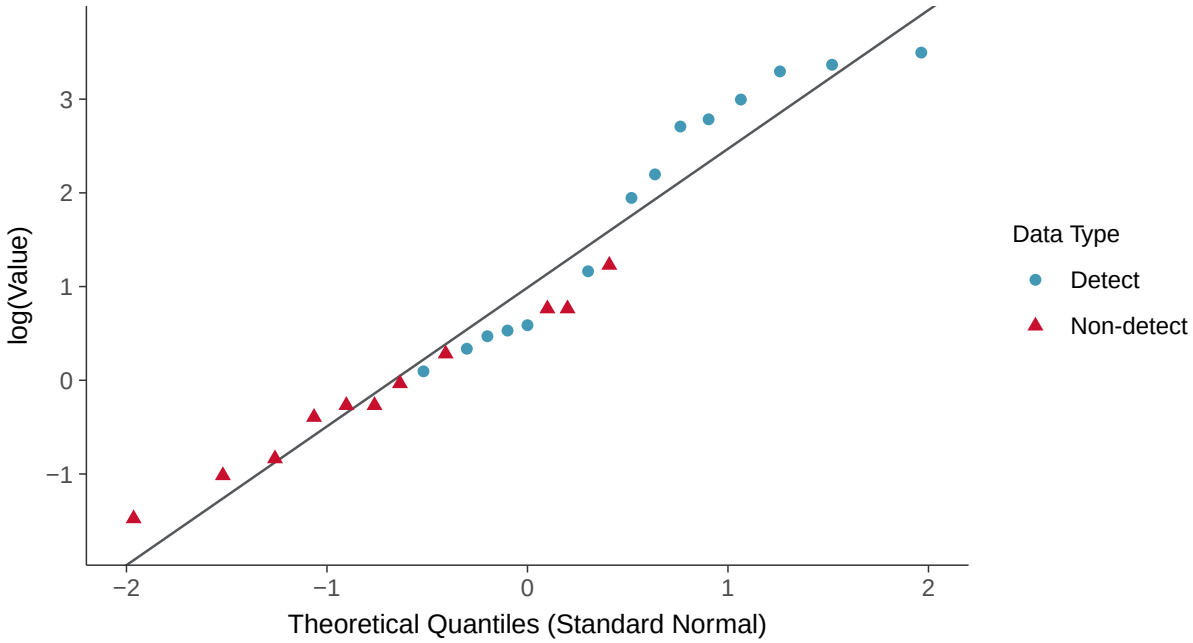
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15010 (ug/L)



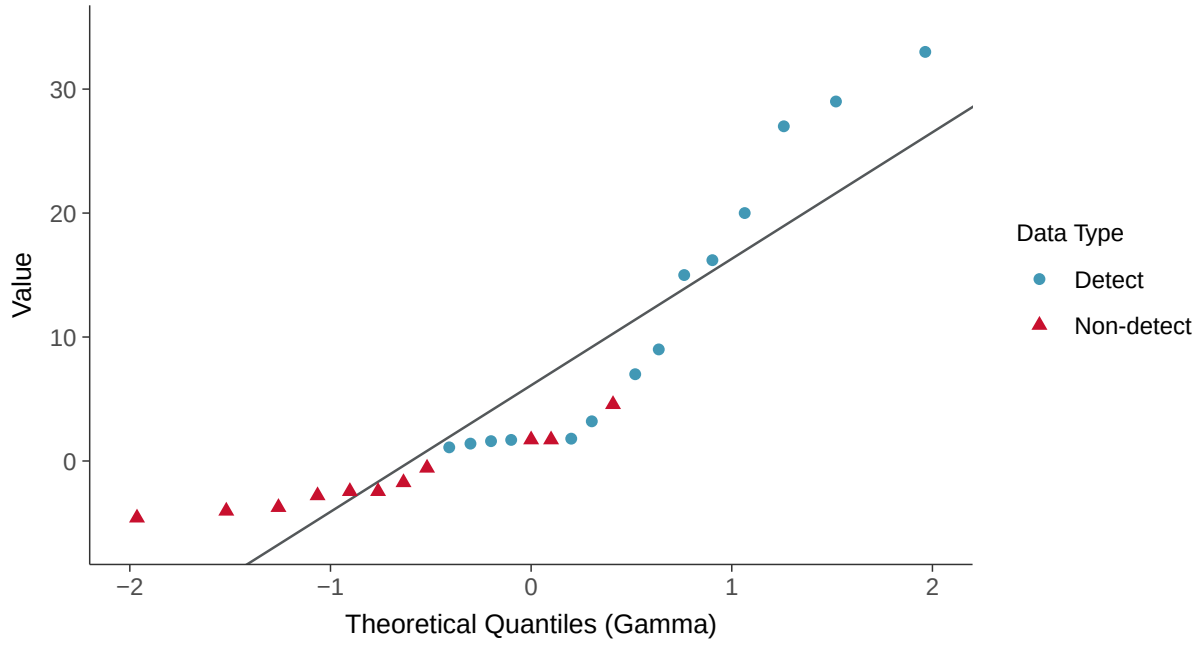
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15010 (ug/L)



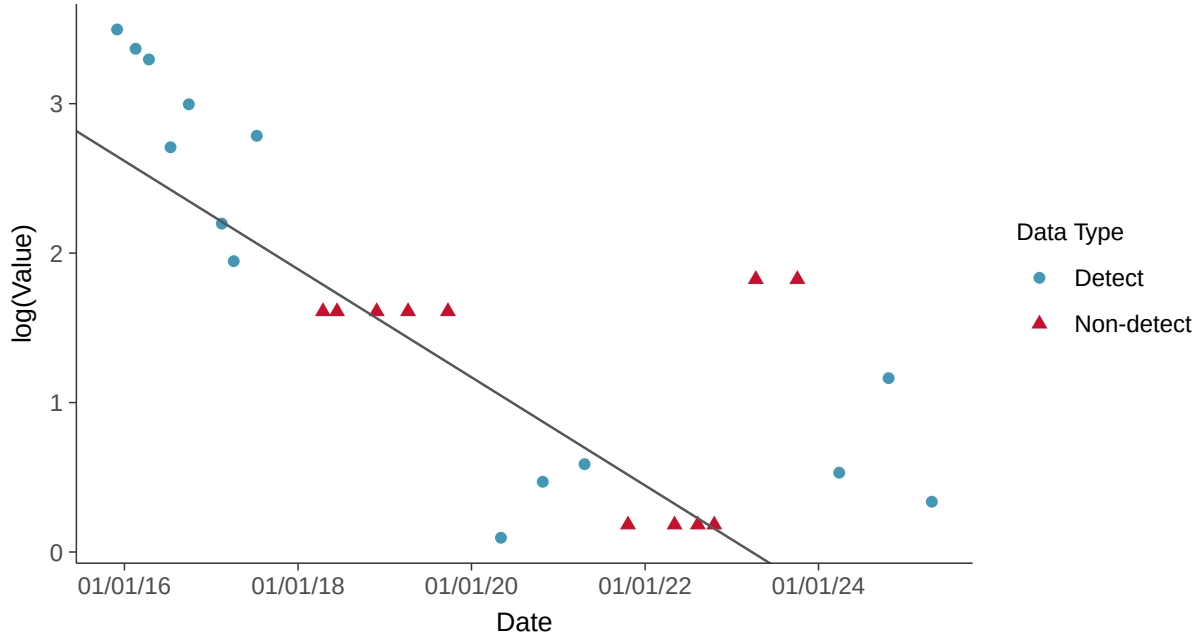
Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15010 (ug/L)



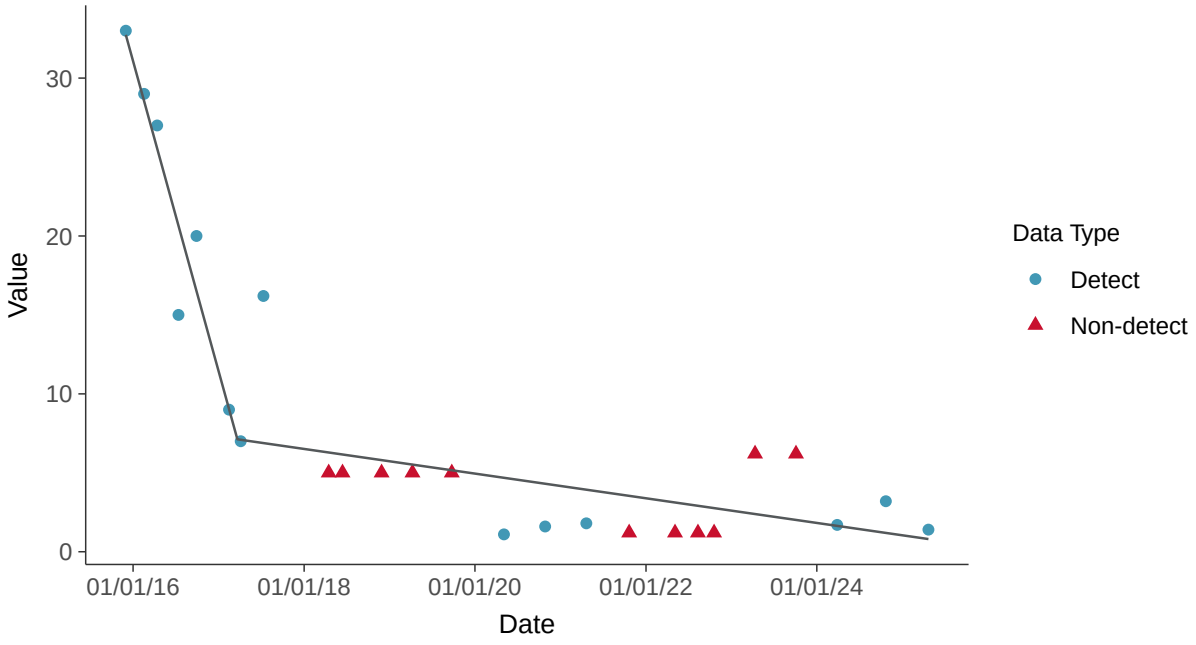
Trend Regression: Lognormal MLE

Molybdenum, MW-15010 (ug/L)



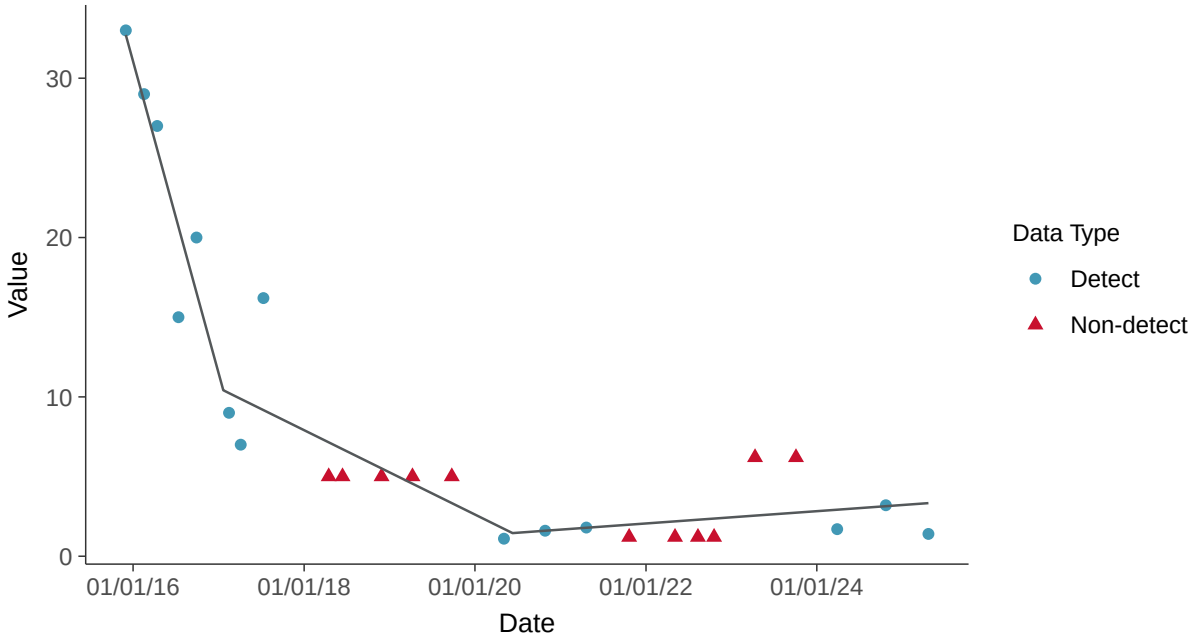
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-15010 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-15010 (ug/L)

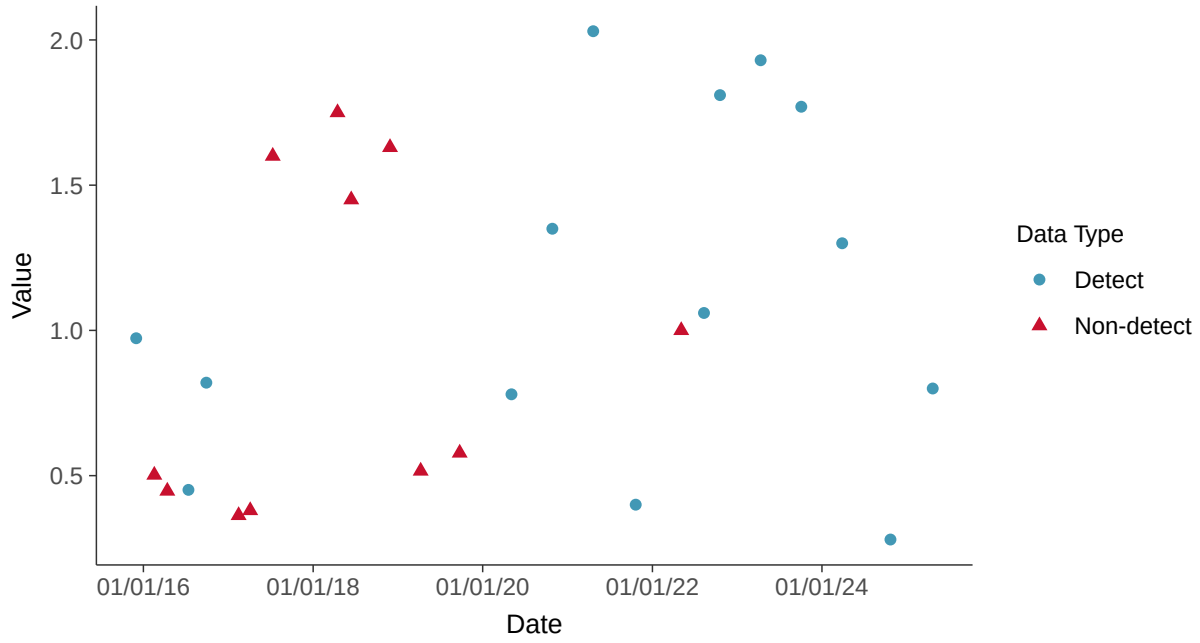


Appendix IV: Radium-226+228, MW-15010

ID: 02_2_125

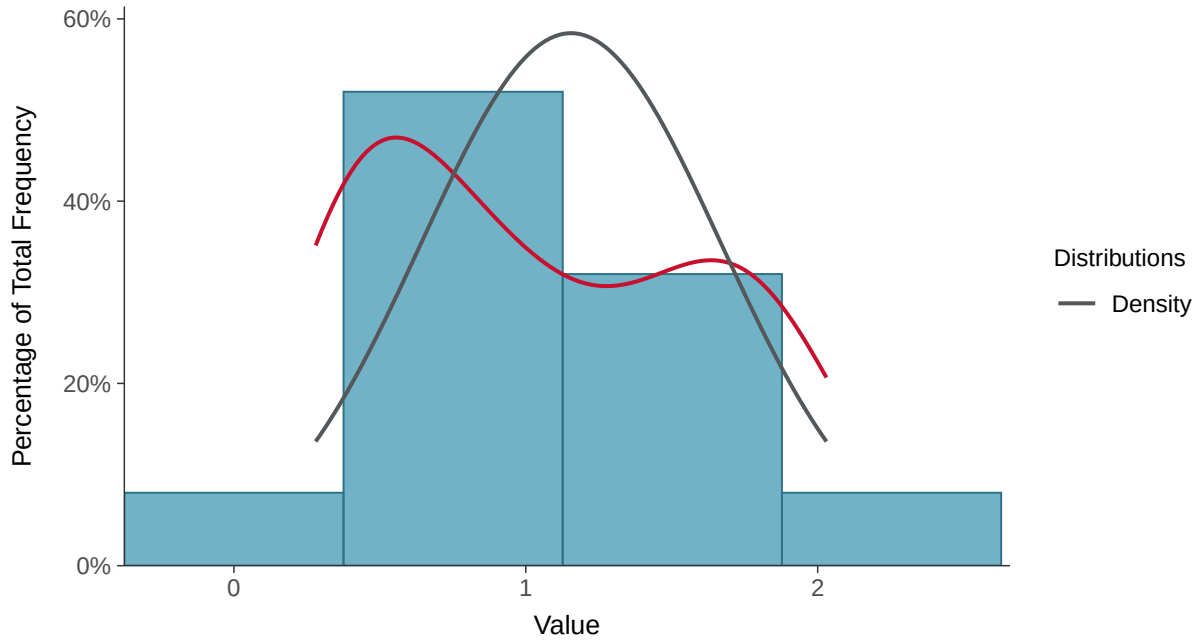
Scatter Plot

Radium-226+228, MW-15010 (pCi/L)



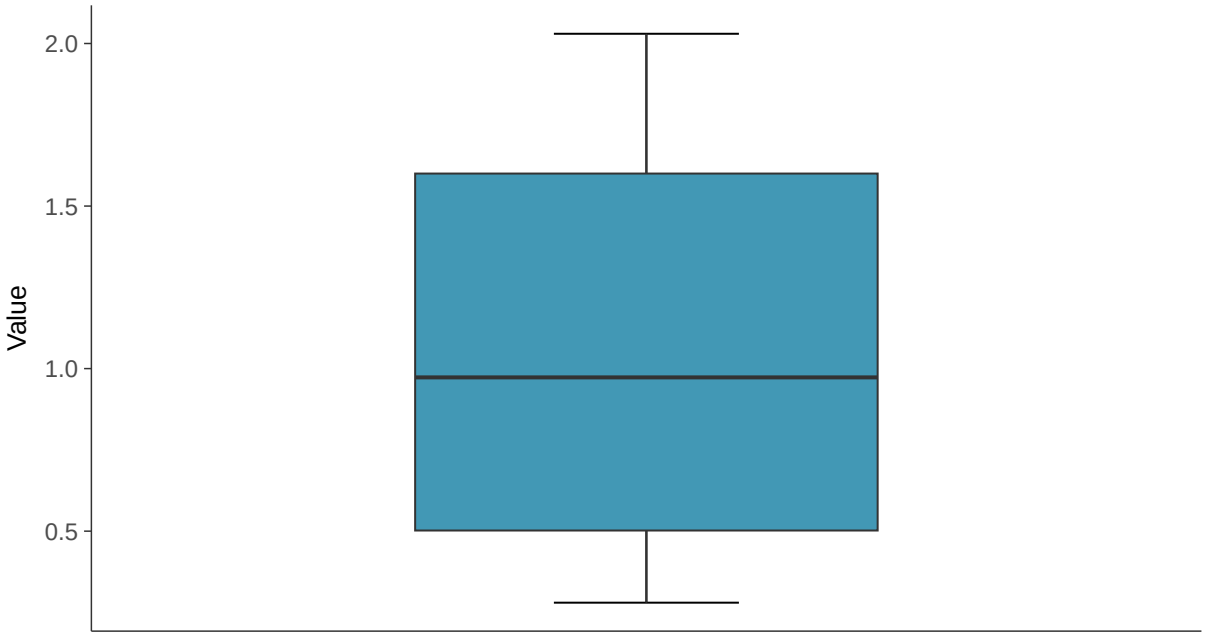
Histogram

Radium-226+228, MW-15010 (pCi/L)



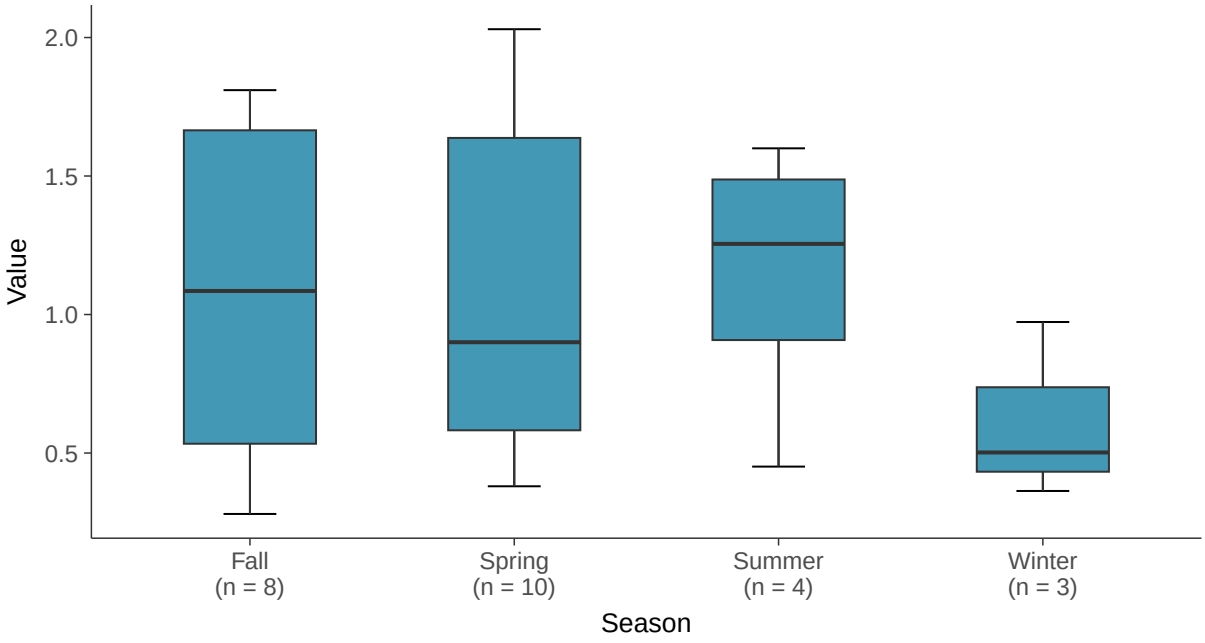
Boxplot

Radium-226+228, MW-15010 (pCi/L)



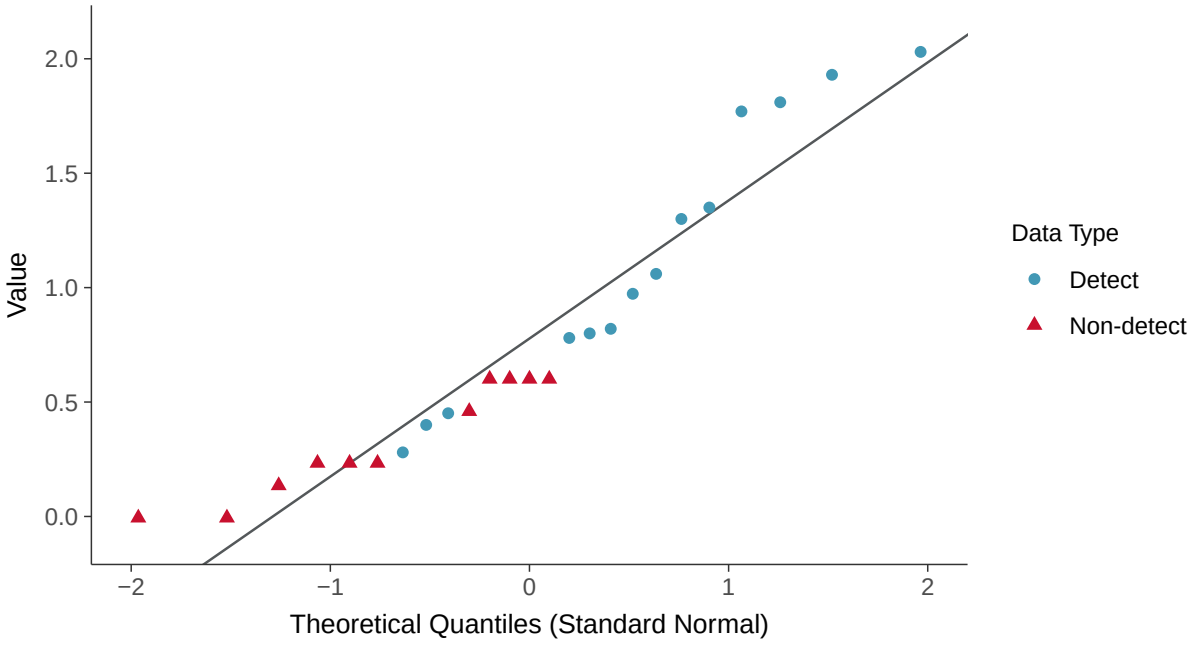
Boxplot by Season

Radium-226+228, MW-15010 (pCi/L)



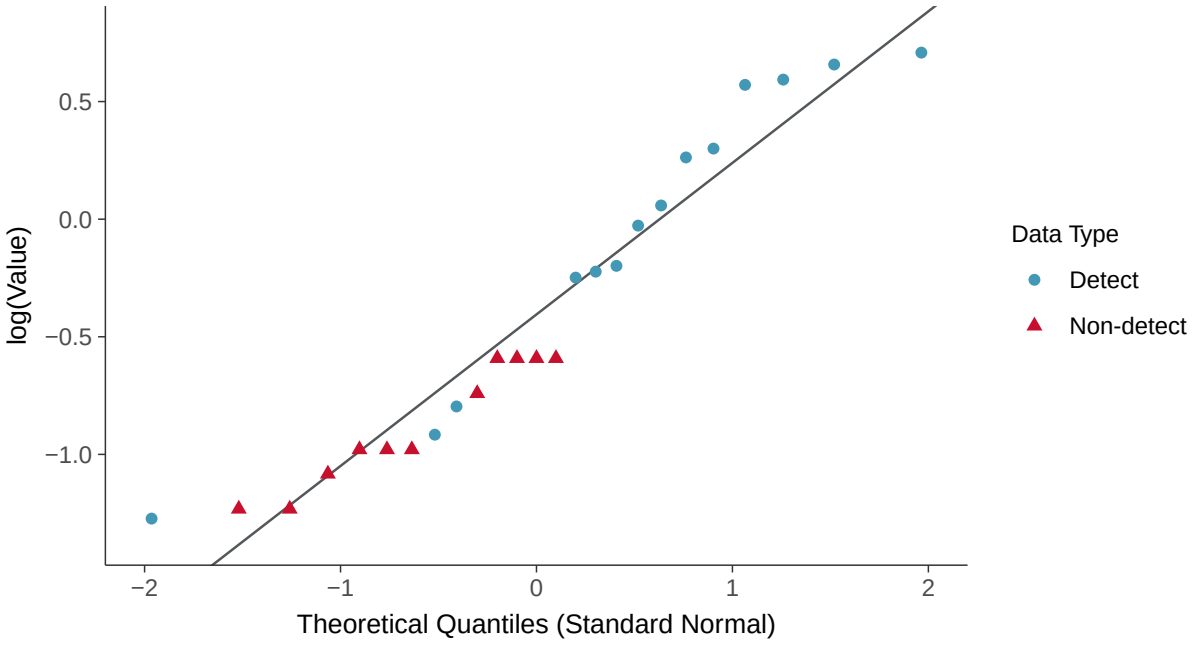
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15010 (pCi/L)



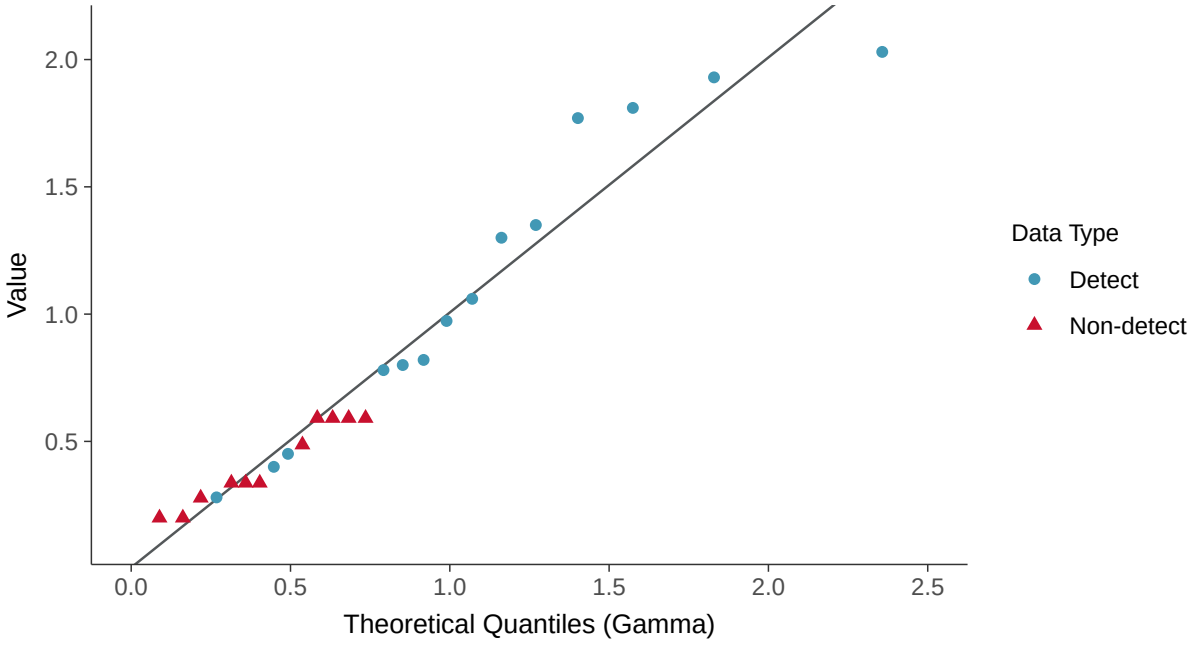
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15010 (pCi/L)



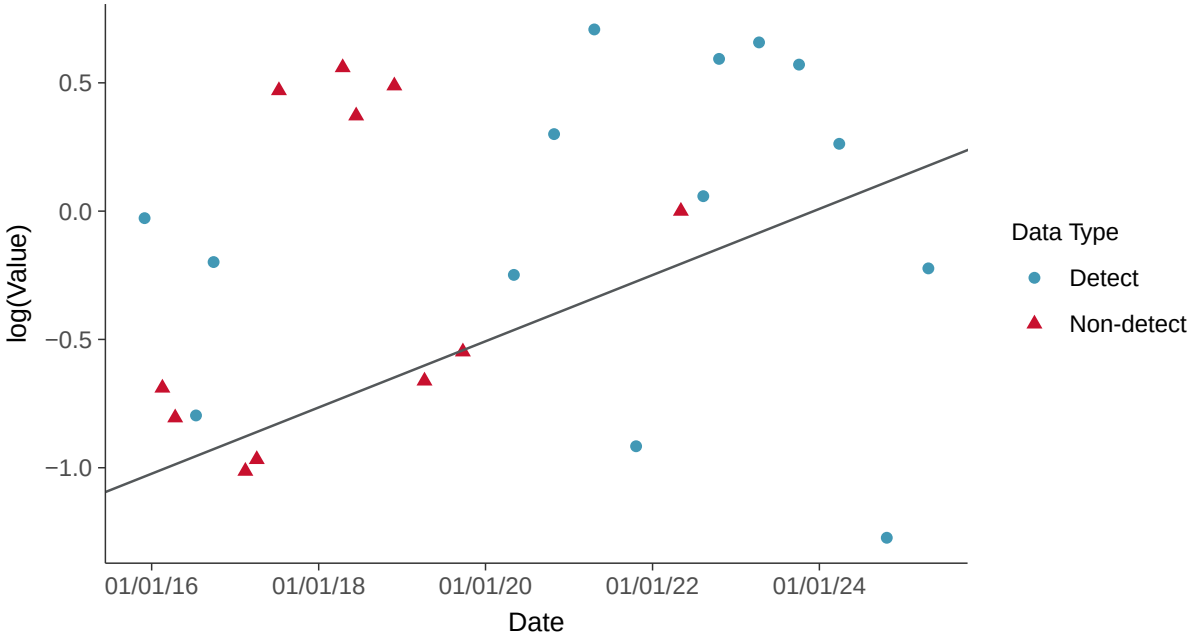
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15010 (pCi/L)



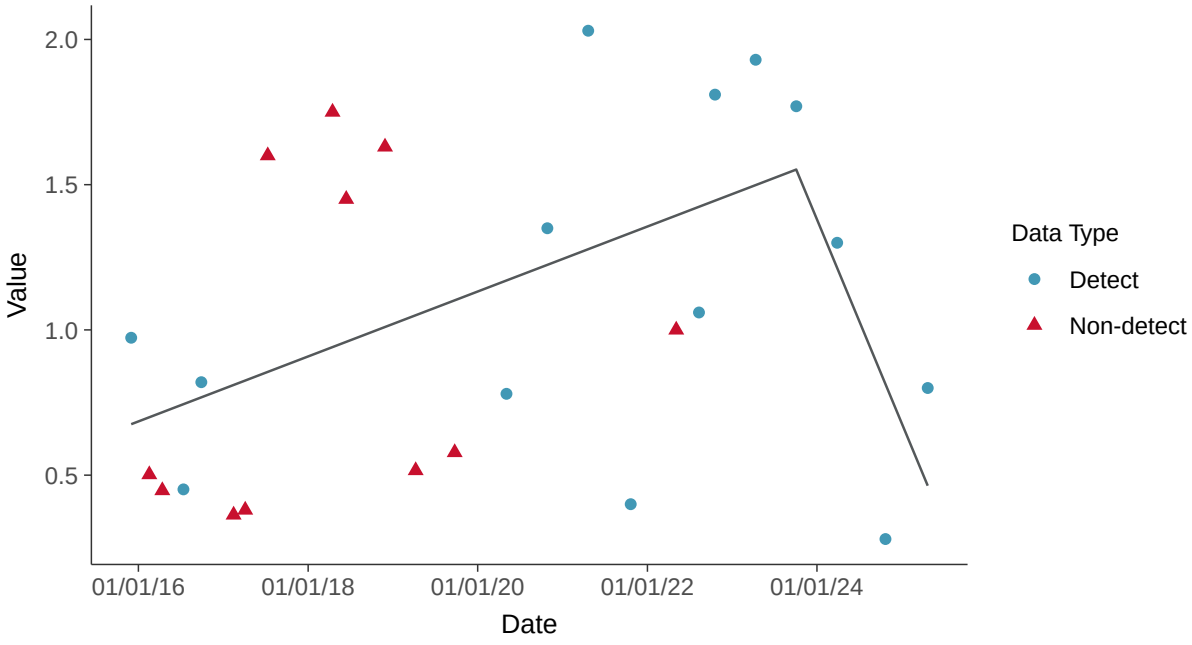
Trend Regression: Lognormal MLE

Radium-226+228, MW-15010 (pCi/L)



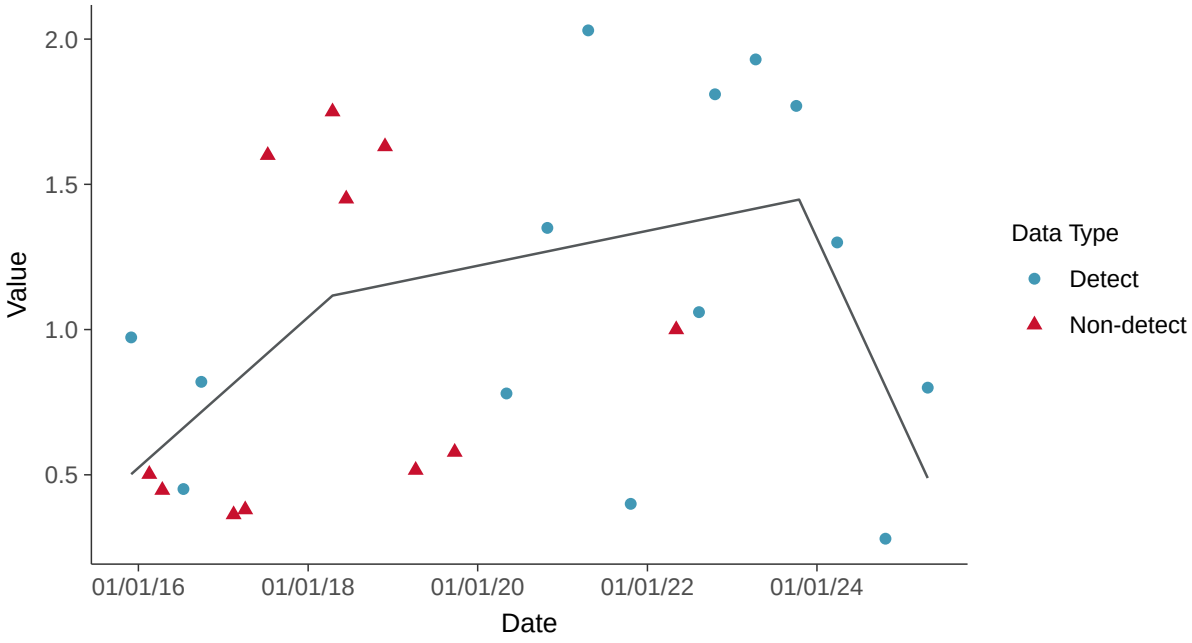
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-15010 (pCi/L)



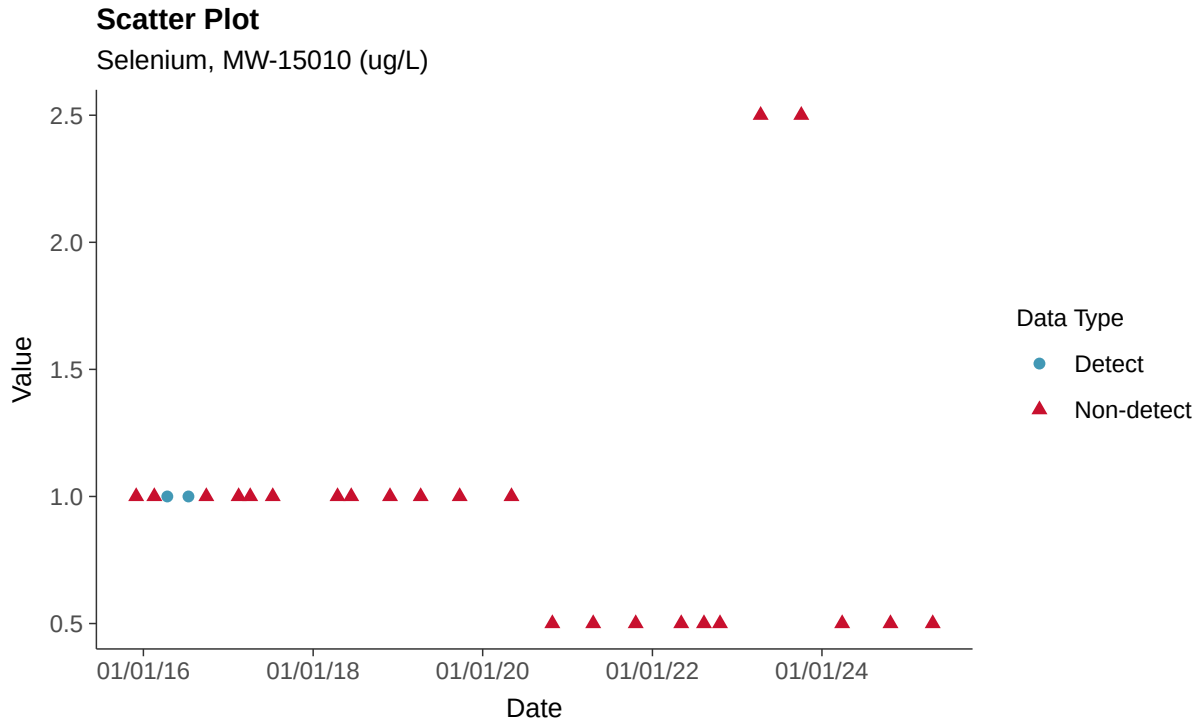
Trend Regression: Piecewise Linear-Linear-Linear

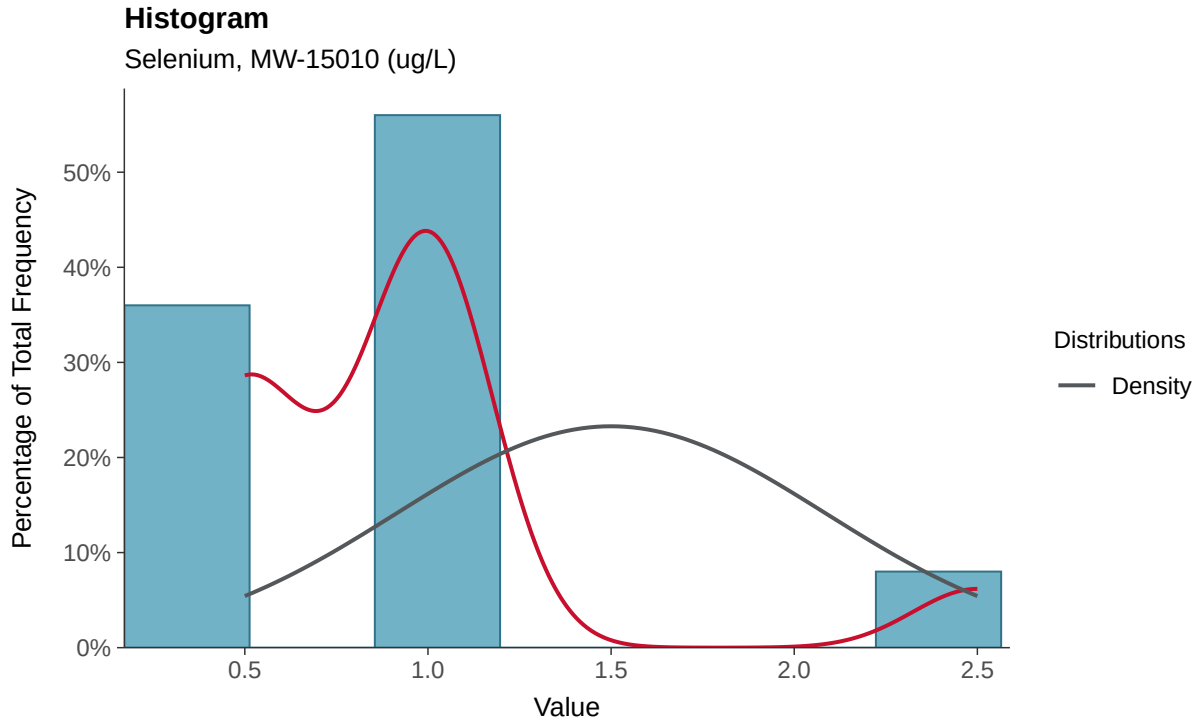
Radium-226+228, MW-15010 (pCi/L)



Appendix IV: Selenium, MW-15010

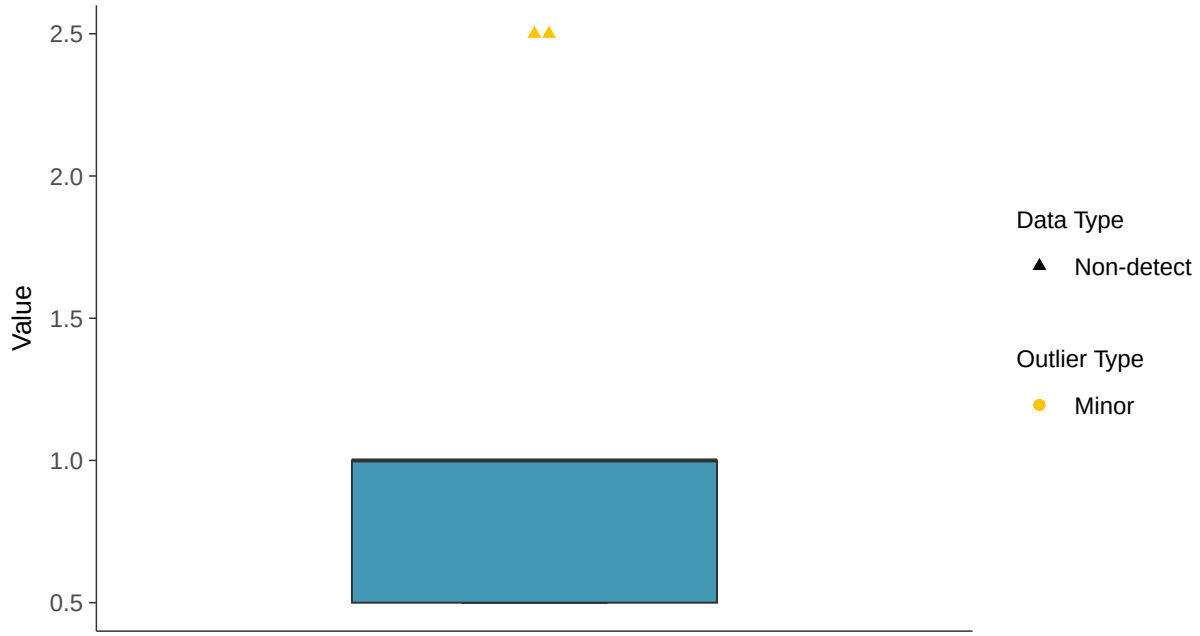
ID: 02_2_127





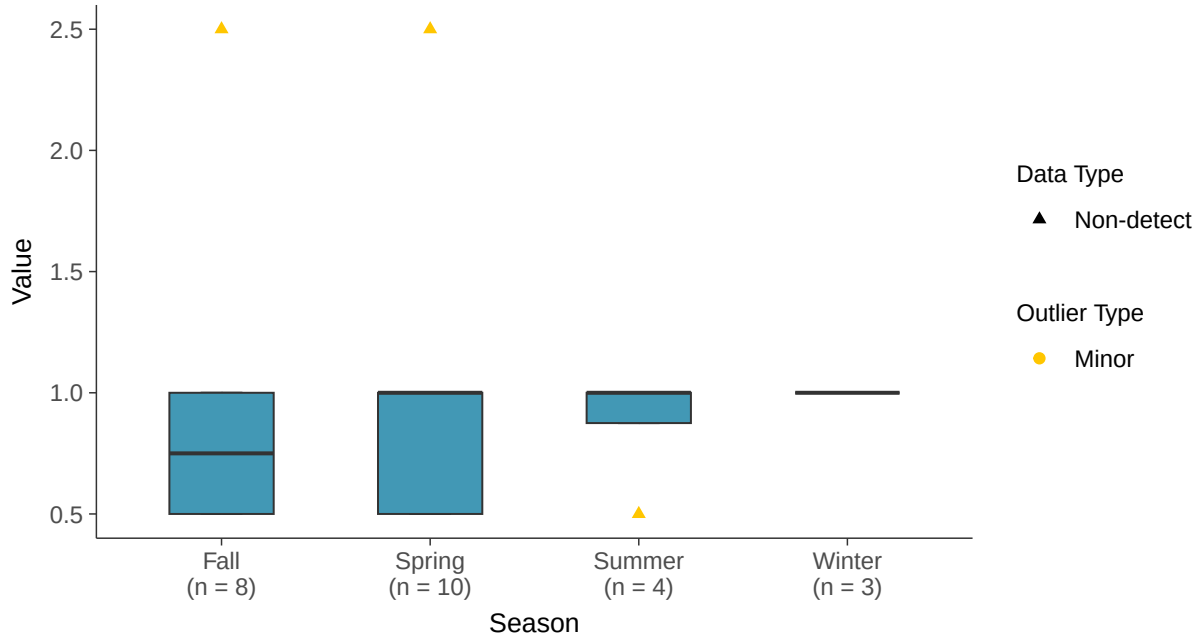
Boxplot

Selenium, MW-15010 (ug/L)



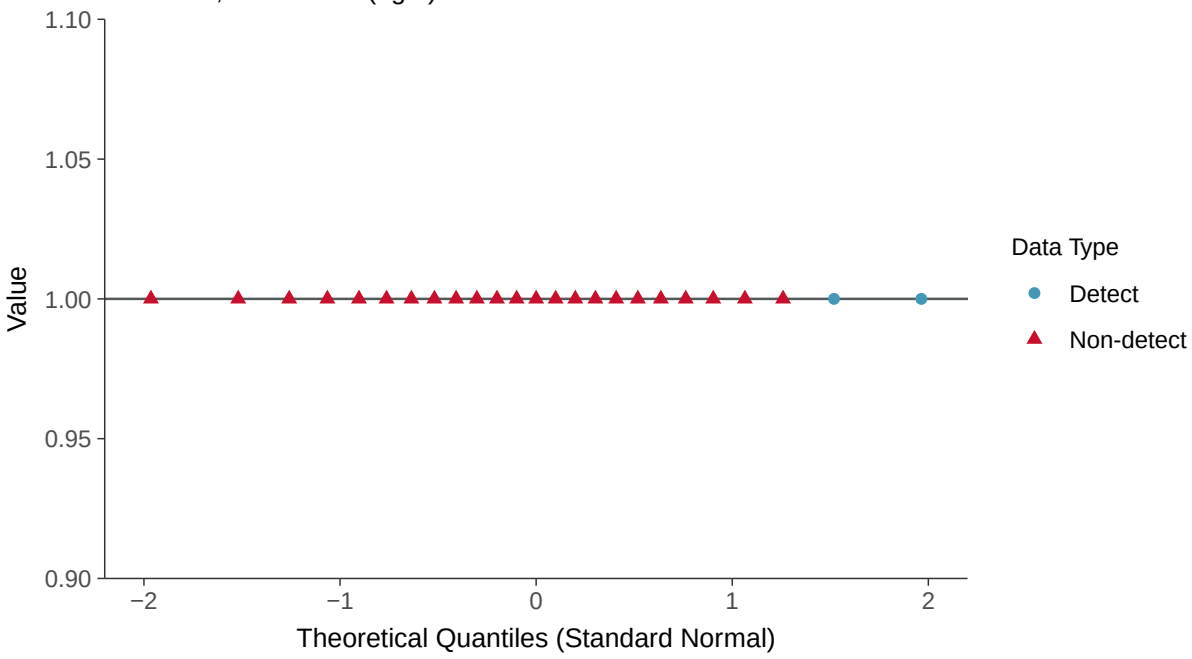
Boxplot by Season

Selenium, MW-15010 (ug/L)



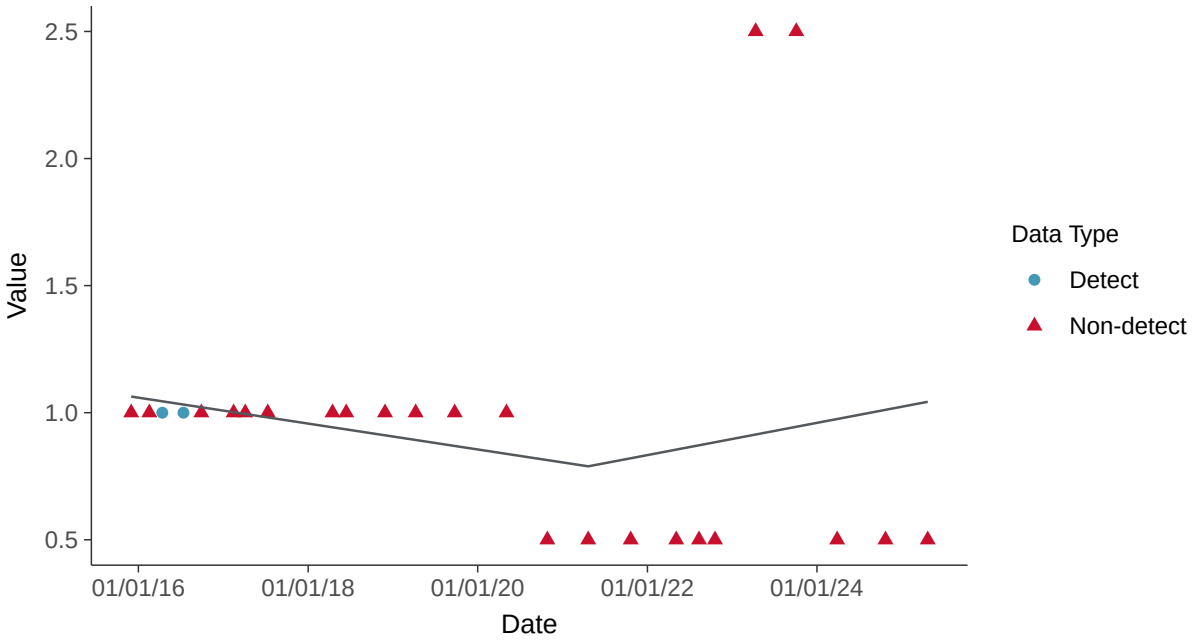
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-15010 (ug/L)



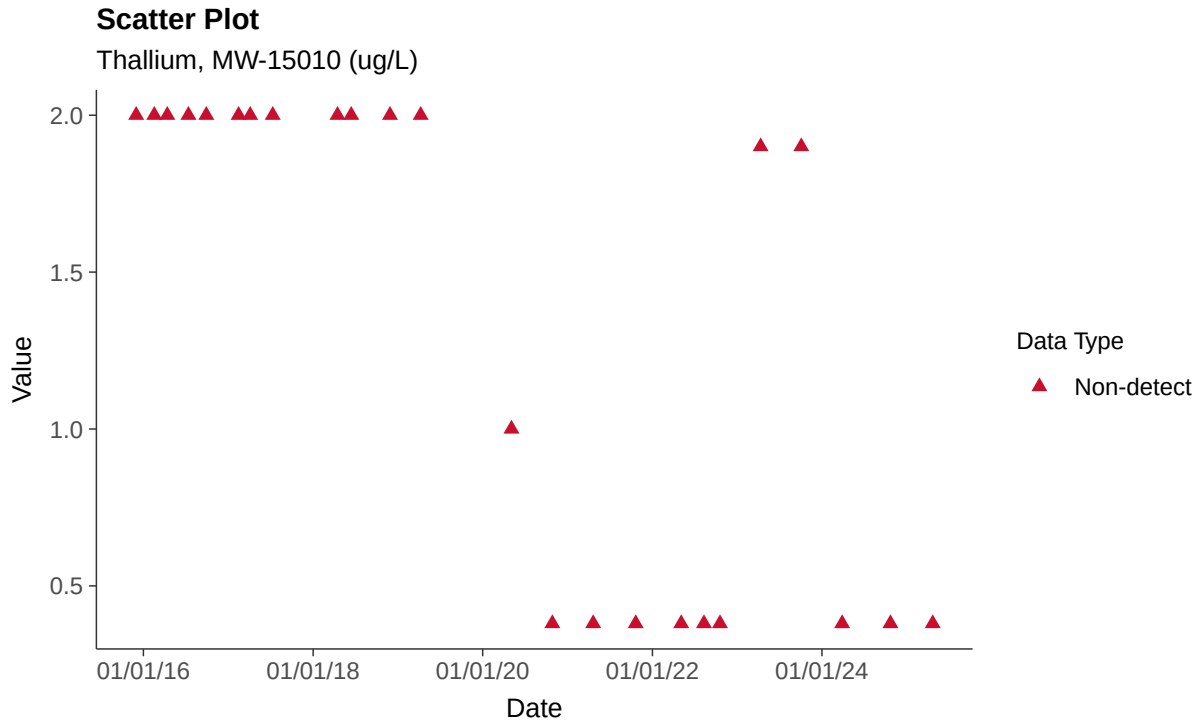
Trend Regression: Piecewise Linear-Linear

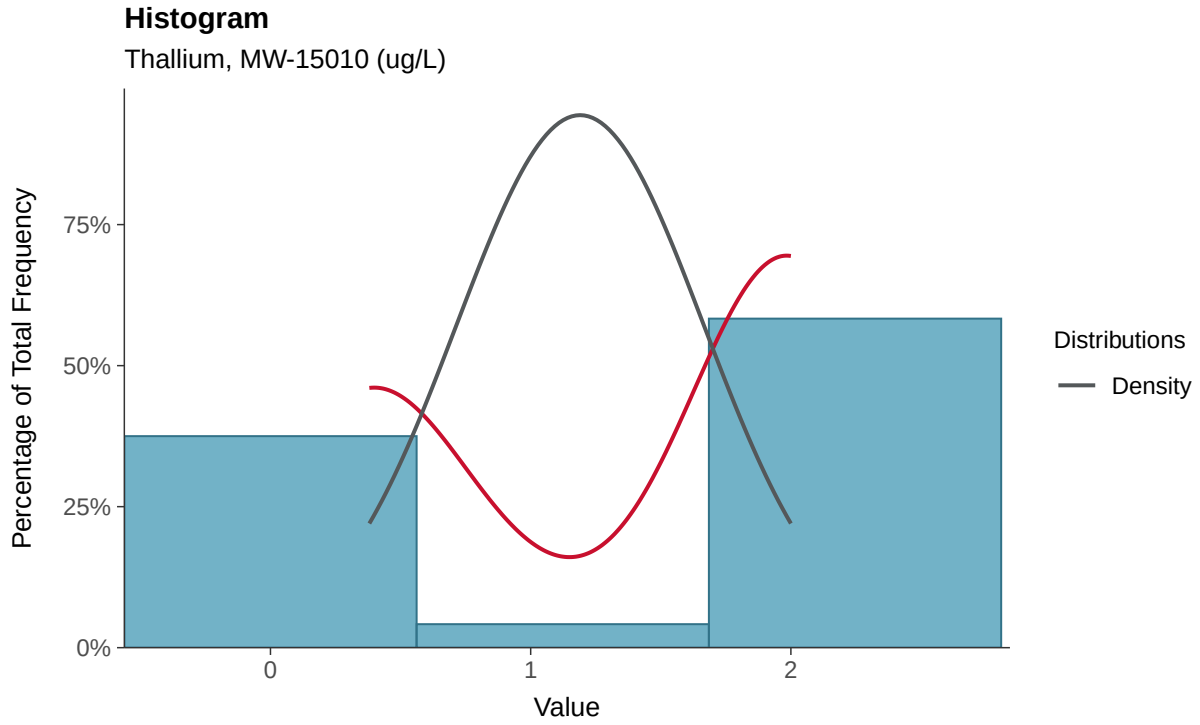
Selenium, MW-15010 (ug/L)



Appendix IV: Thallium, MW-15010

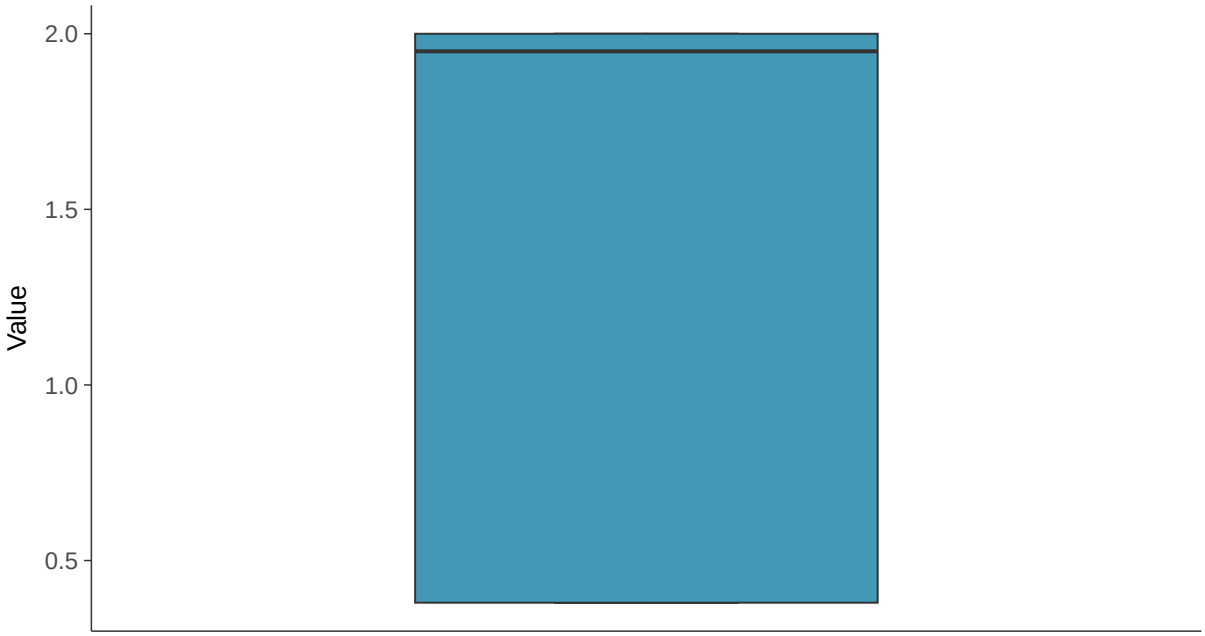
ID: 02_2_131





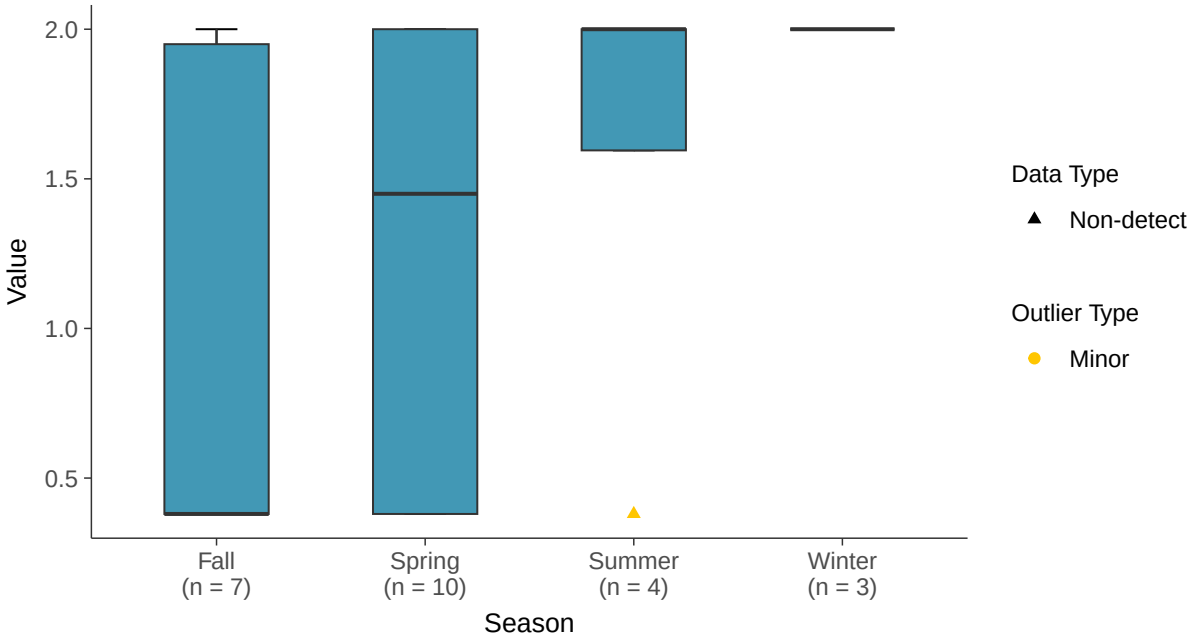
Boxplot

Thallium, MW-15010 (ug/L)



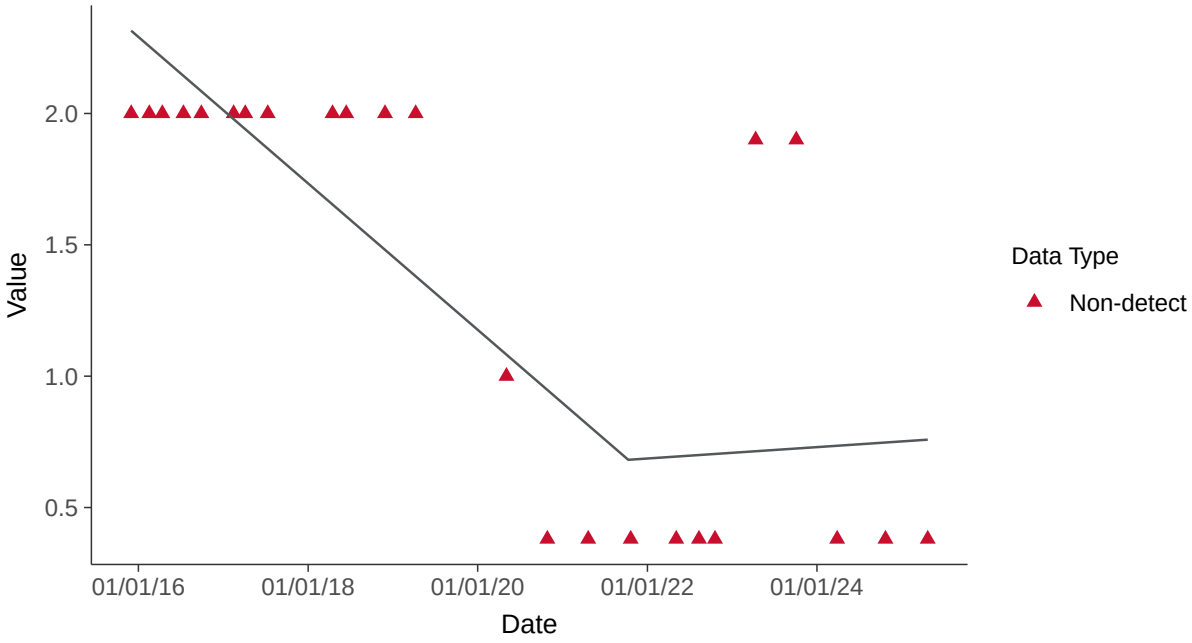
Boxplot by Season

Thallium, MW-15010 (ug/L)



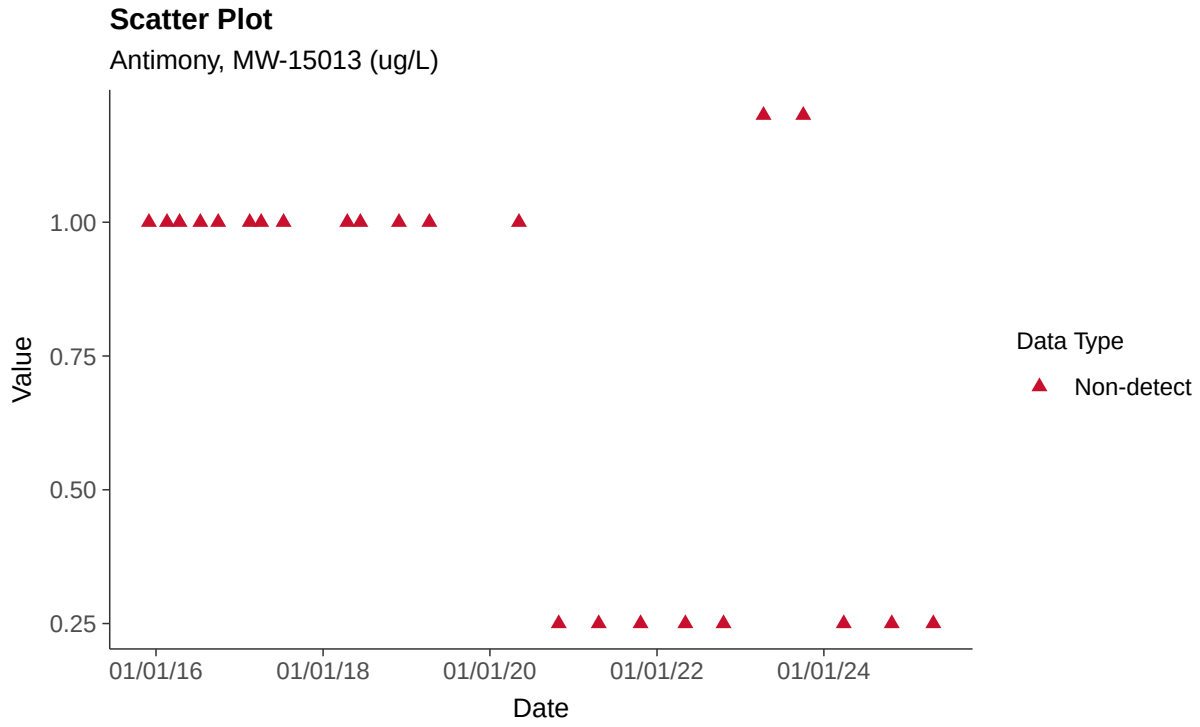
Trend Regression: Piecewise Linear-Linear

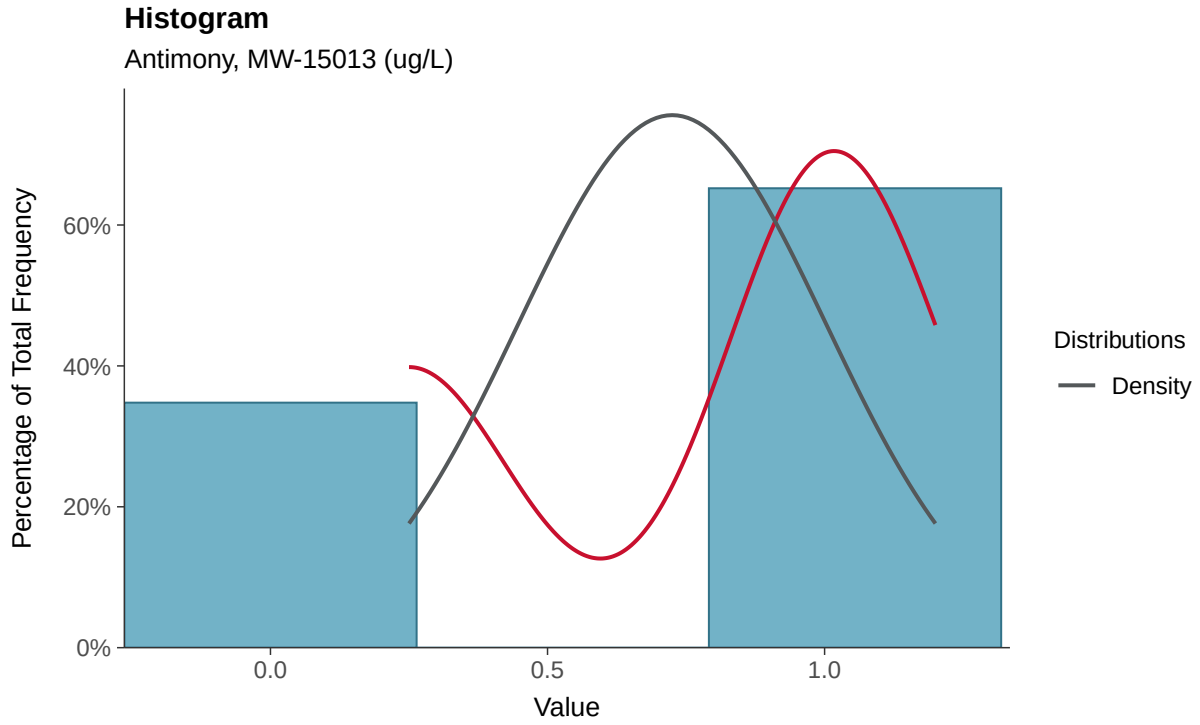
Thallium, MW-15010 (ug/L)



Appendix IV: Antimony, MW-15013

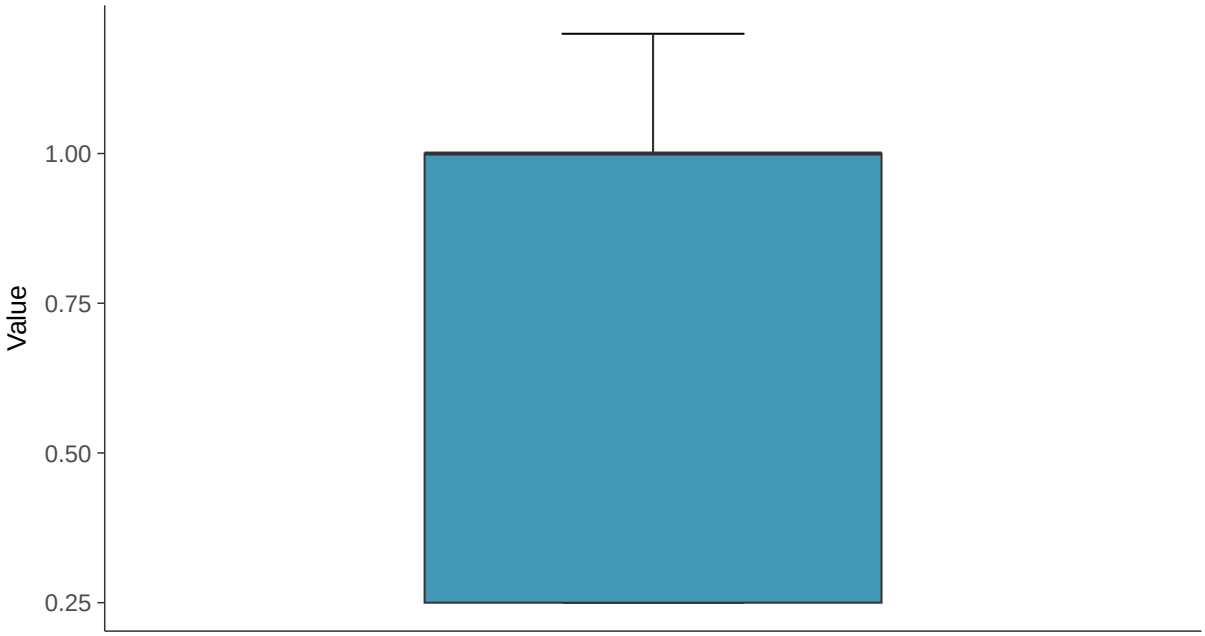
ID: 03_2_101





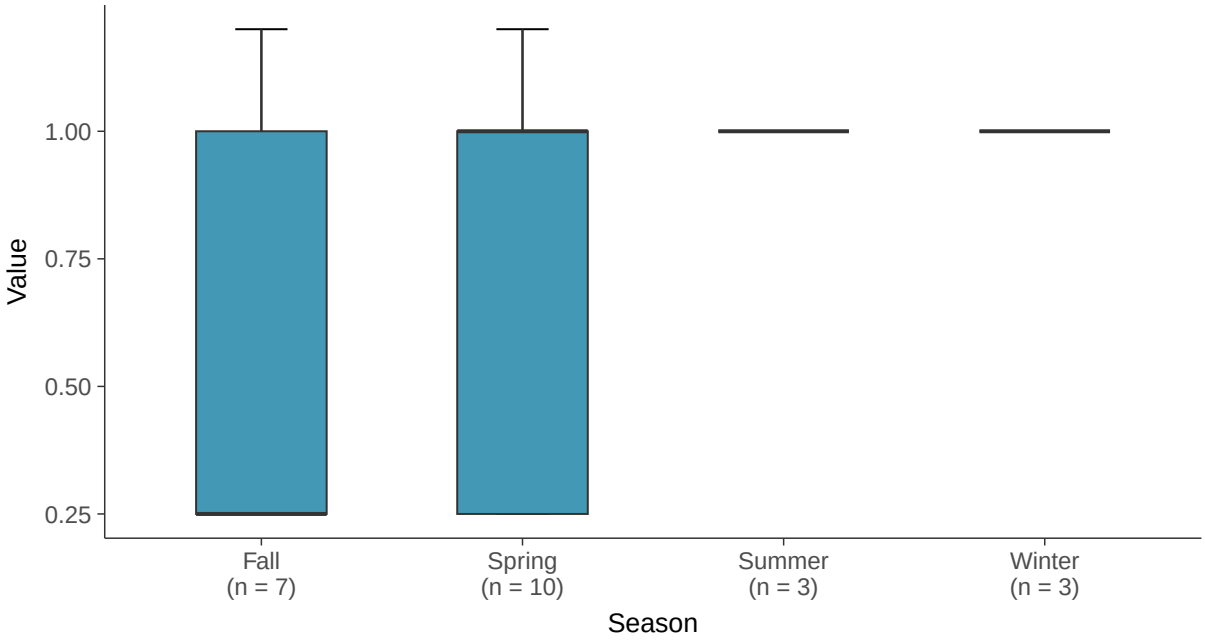
Boxplot

Antimony, MW-15013 (ug/L)



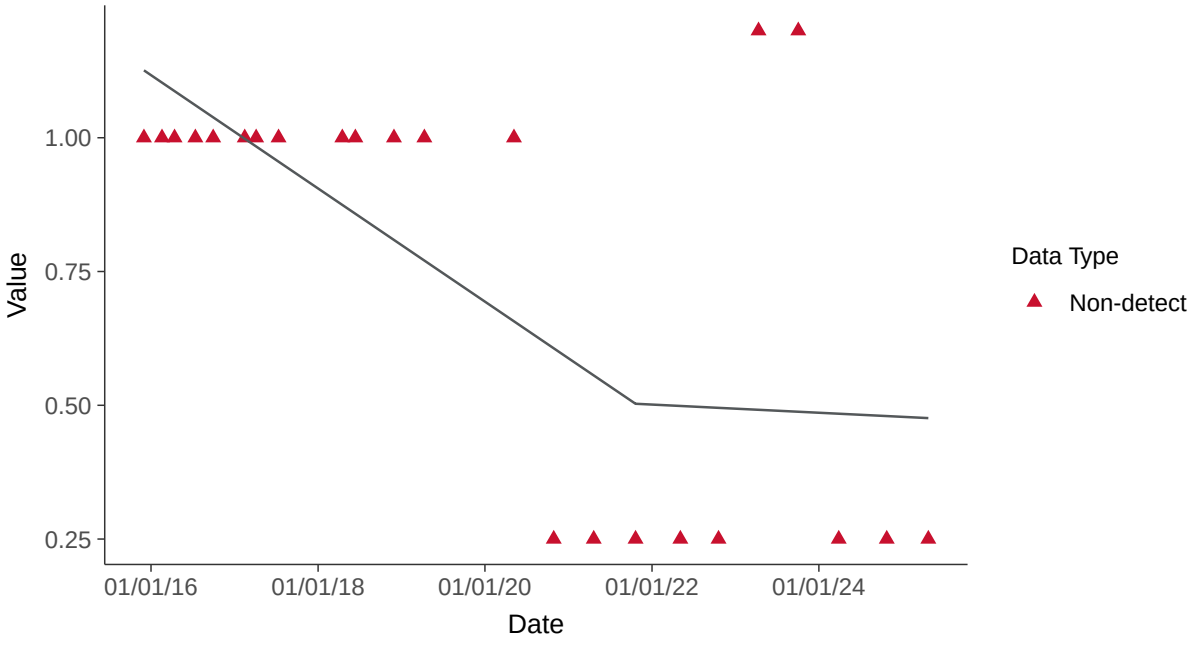
Boxplot by Season

Antimony, MW-15013 (ug/L)



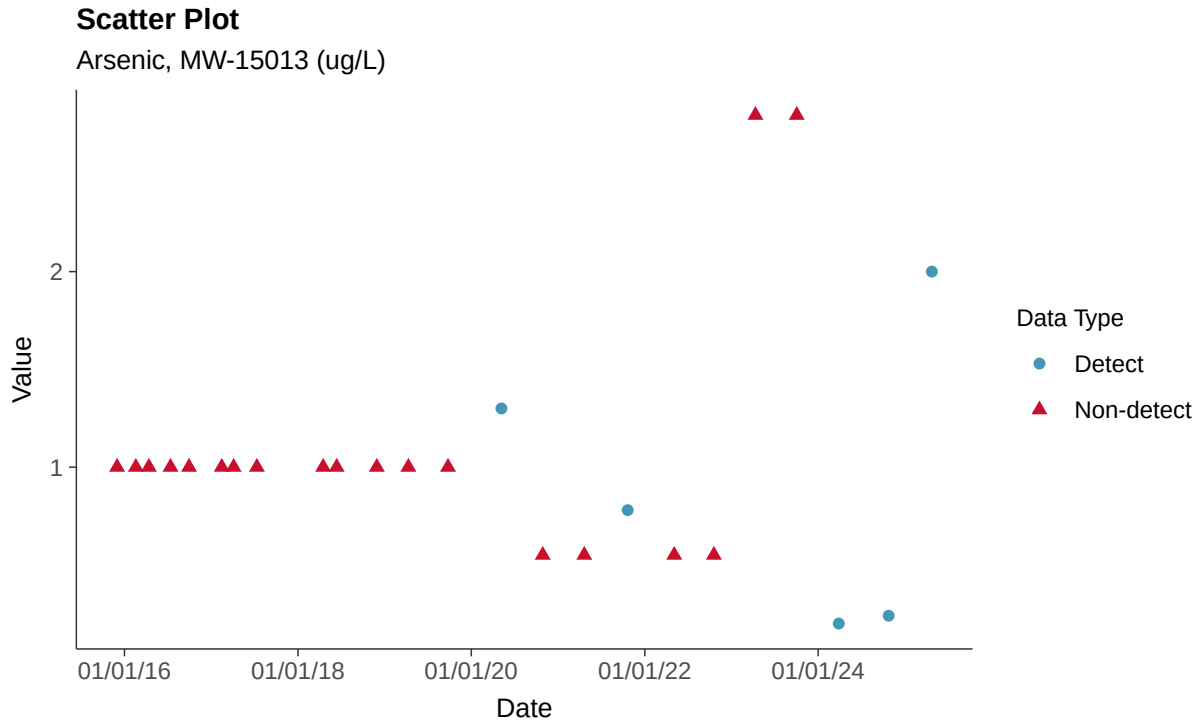
Trend Regression: Piecewise Linear-Linear

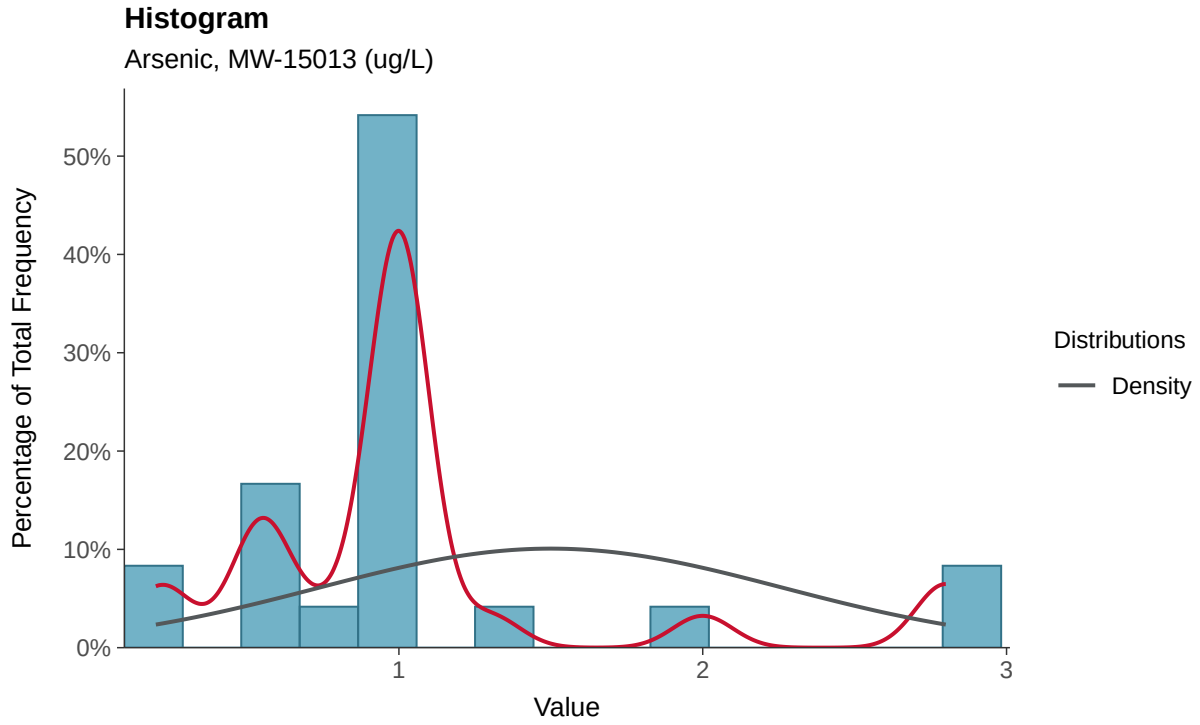
Antimony, MW-15013 (ug/L)



Appendix IV: Arsenic, MW-15013

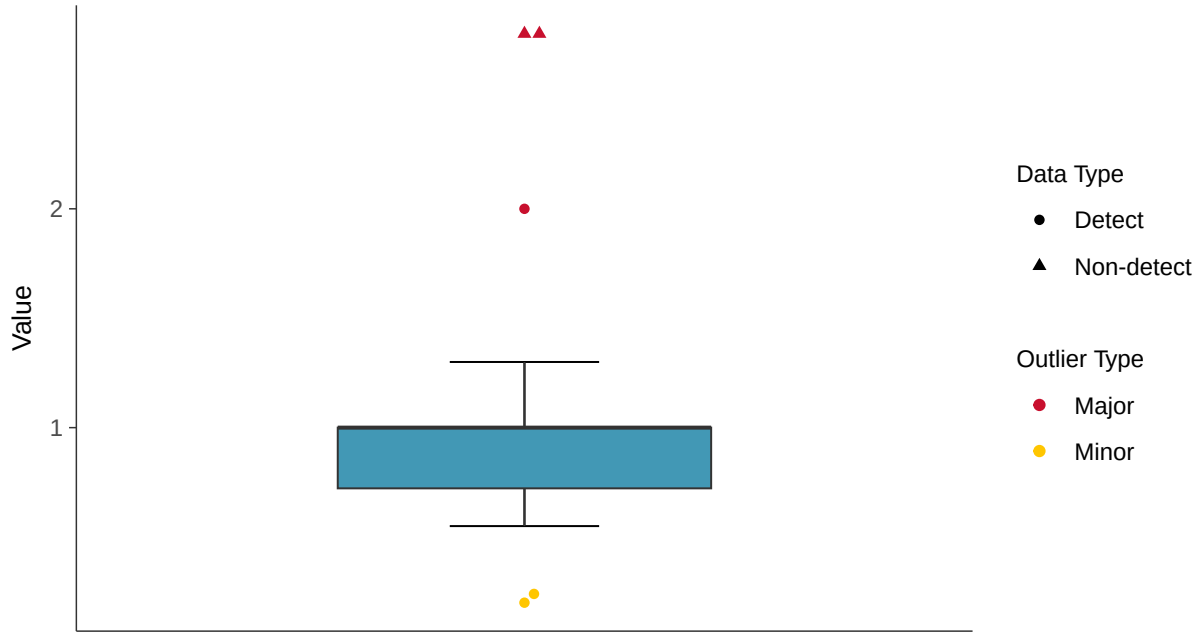
ID: 03_2_102





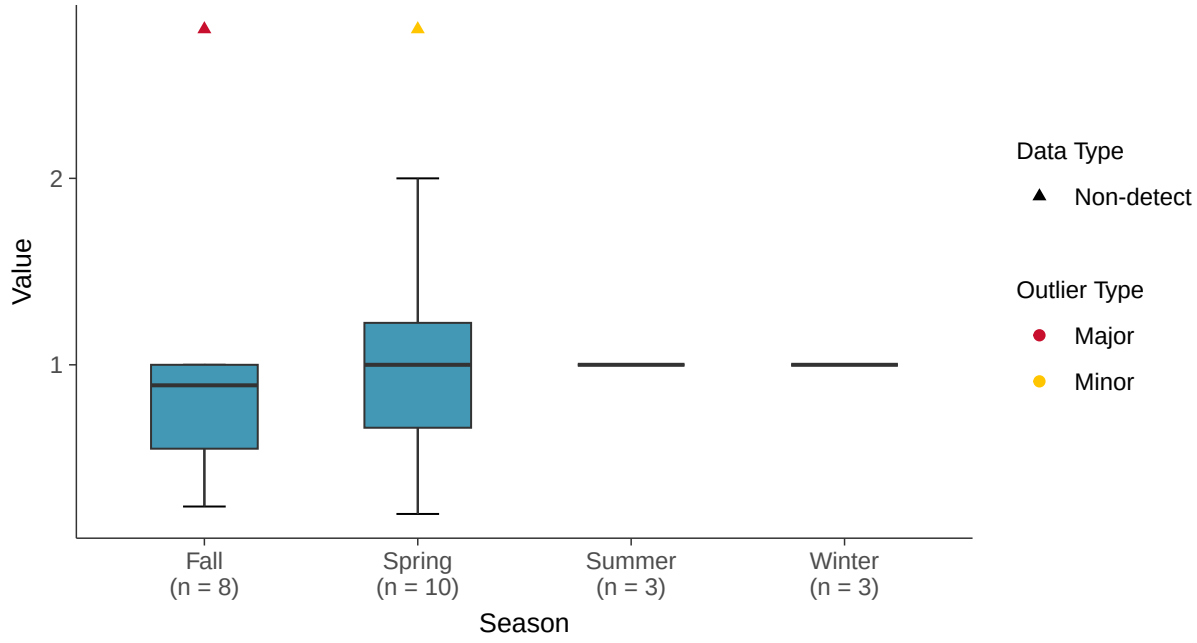
Boxplot

Arsenic, MW-15013 (ug/L)



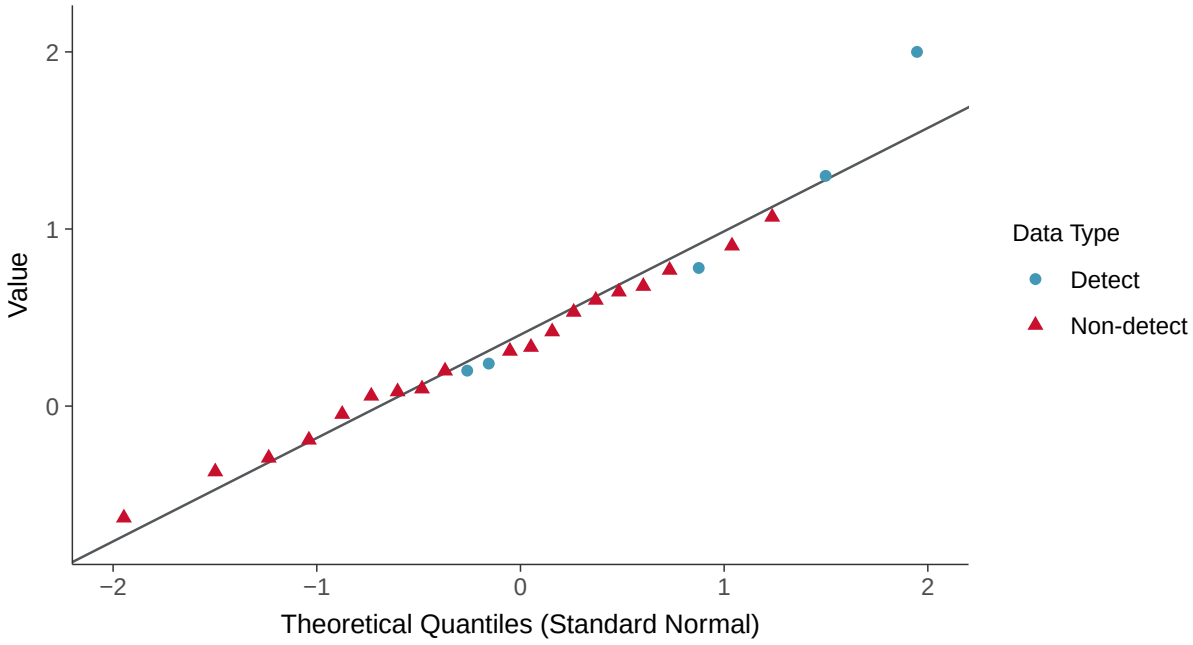
Boxplot by Season

Arsenic, MW-15013 (ug/L)



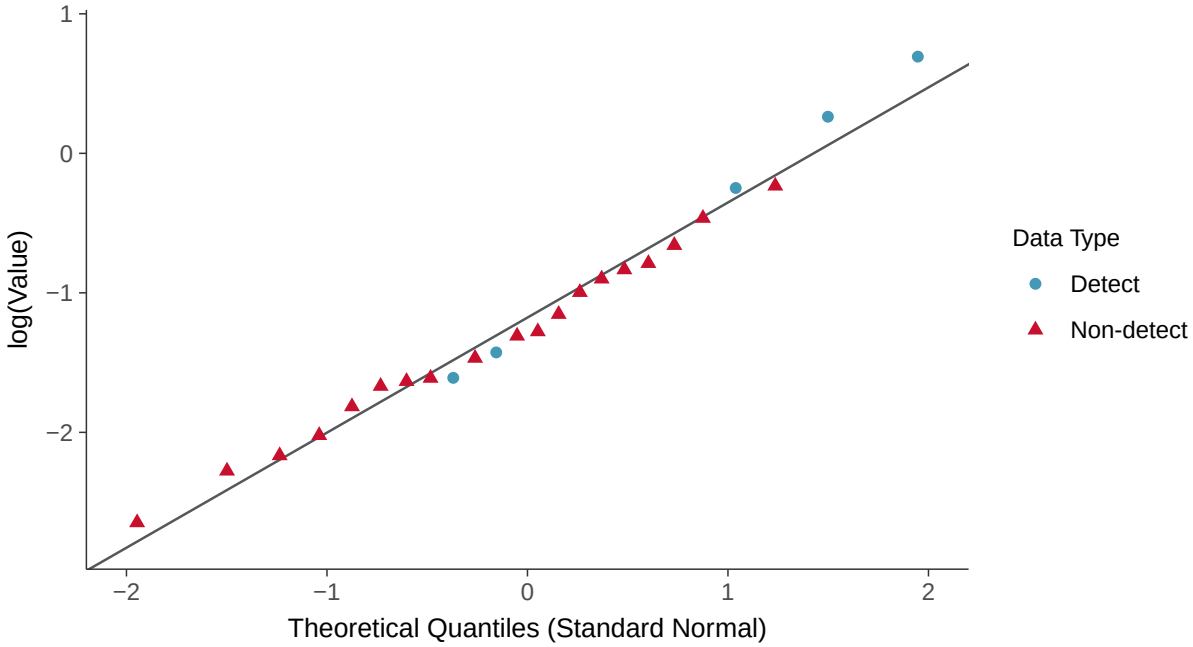
Normal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15013 (ug/L)



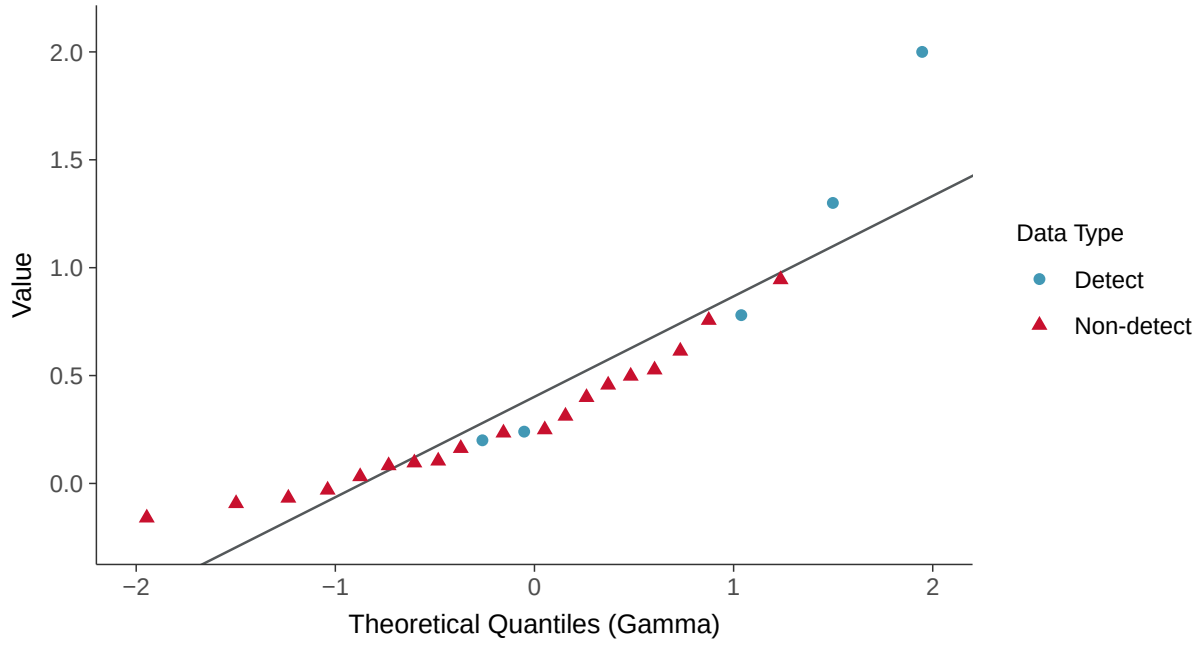
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15013 (ug/L)



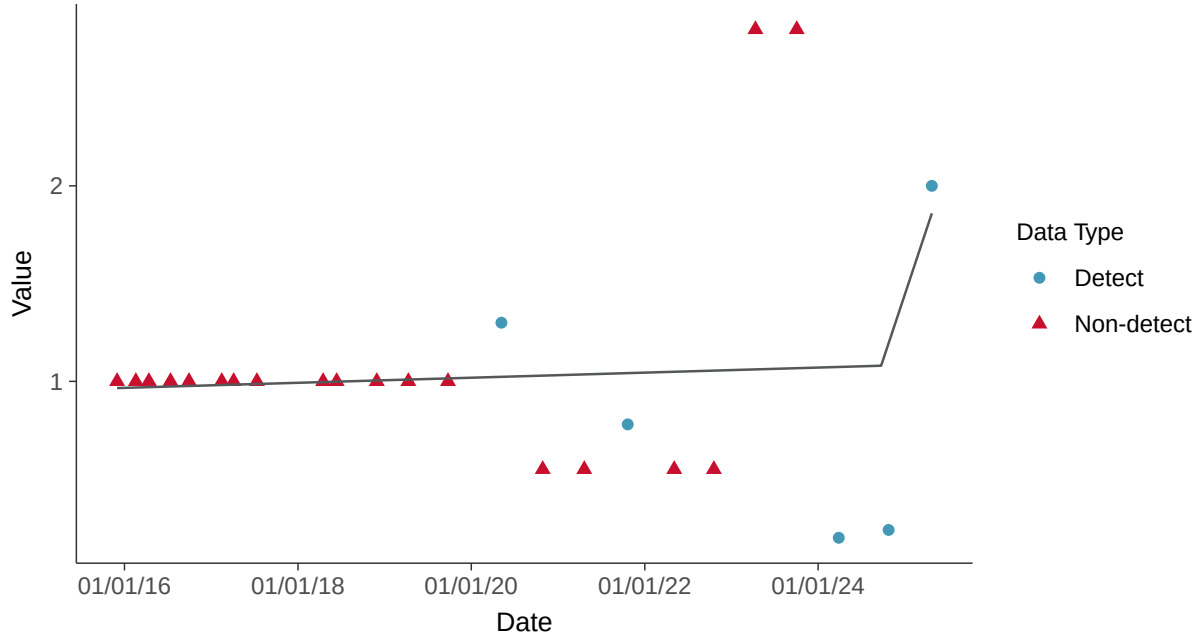
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15013 (ug/L)



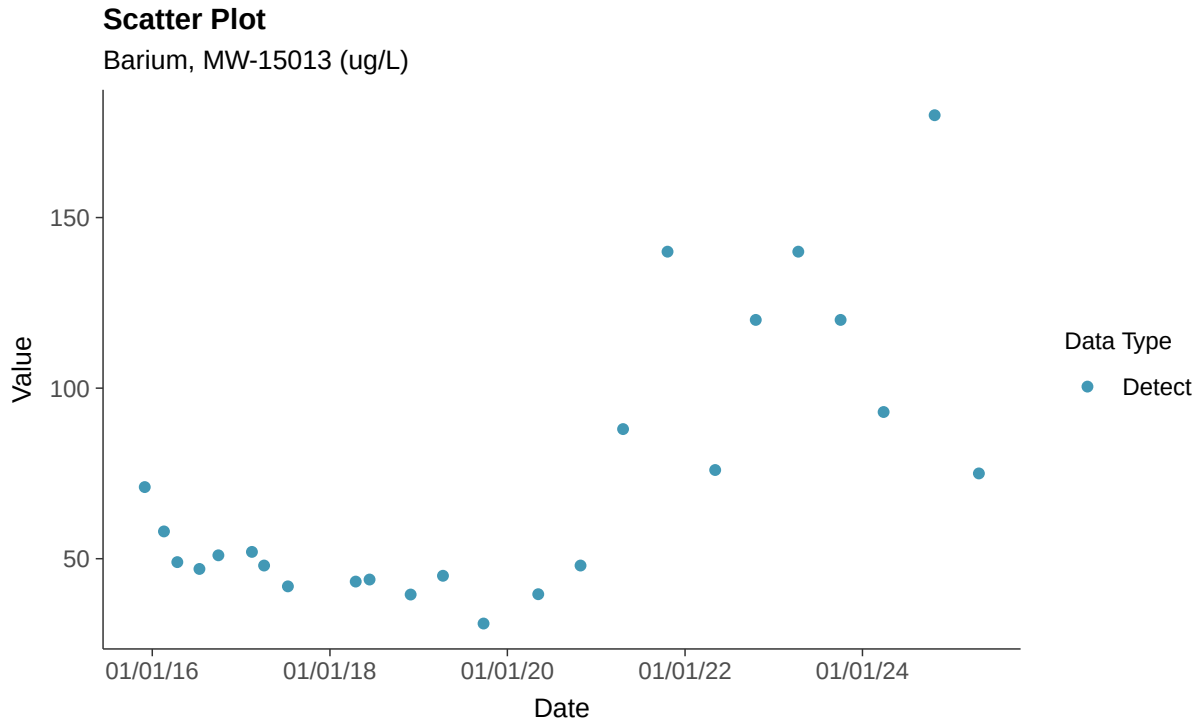
Trend Regression: Piecewise Linear-Linear

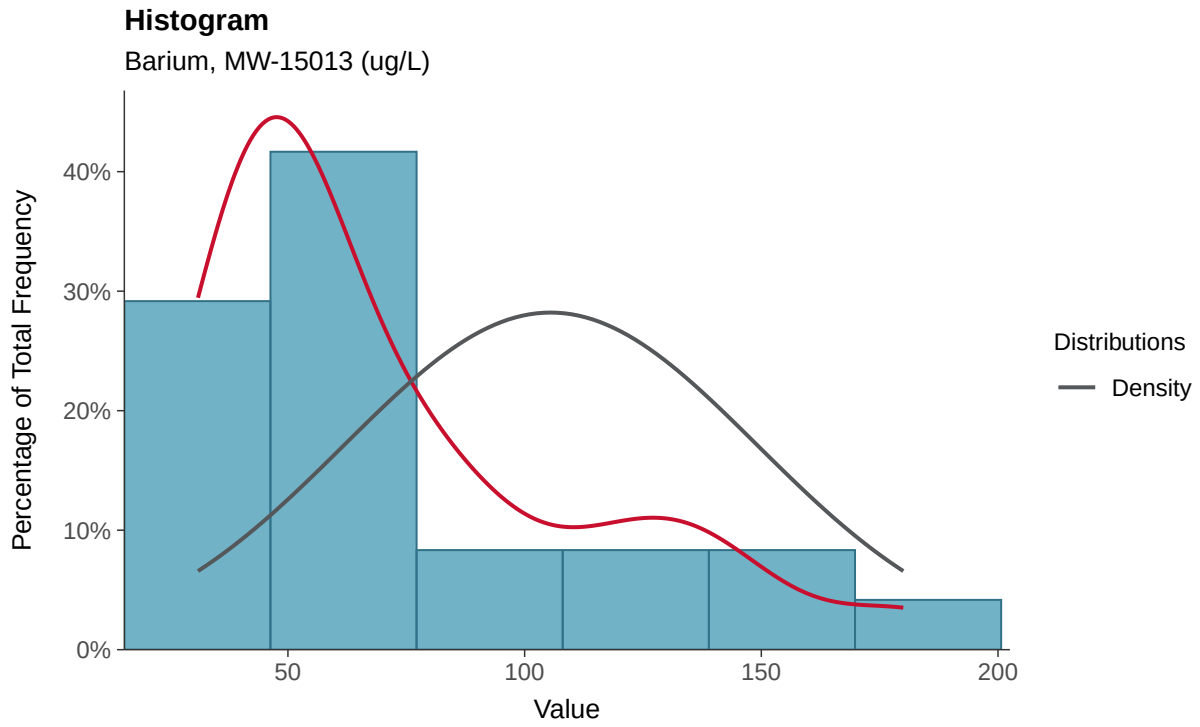
Arsenic, MW-15013 (ug/L)



Appendix IV: Barium, MW-15013

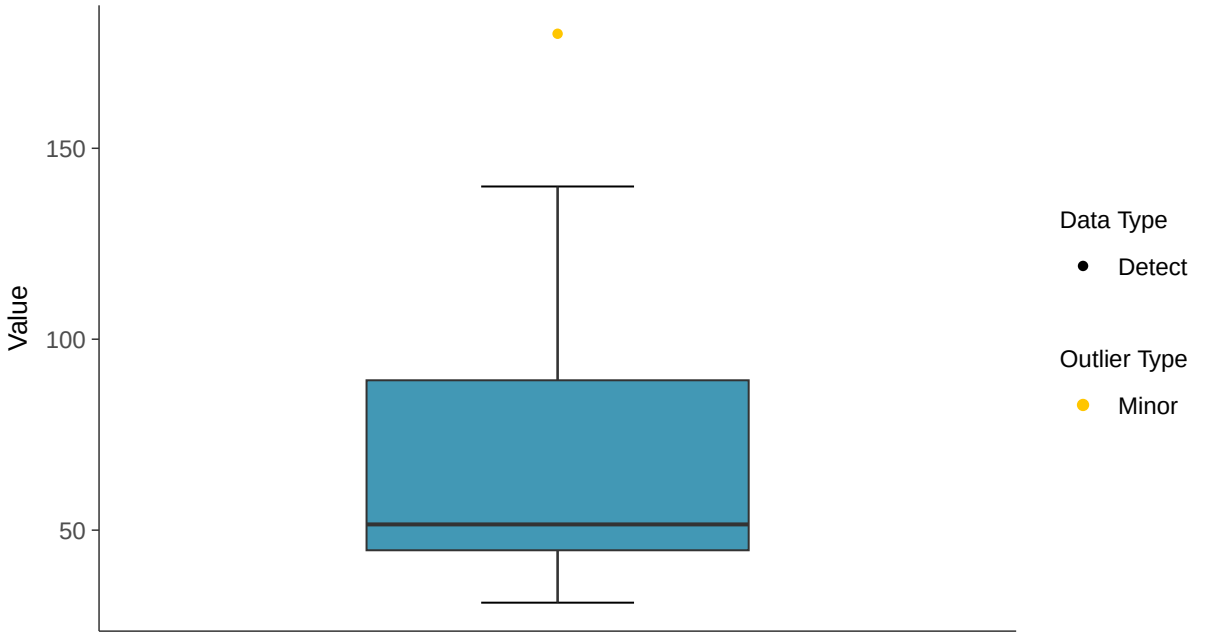
ID: 03_2_103





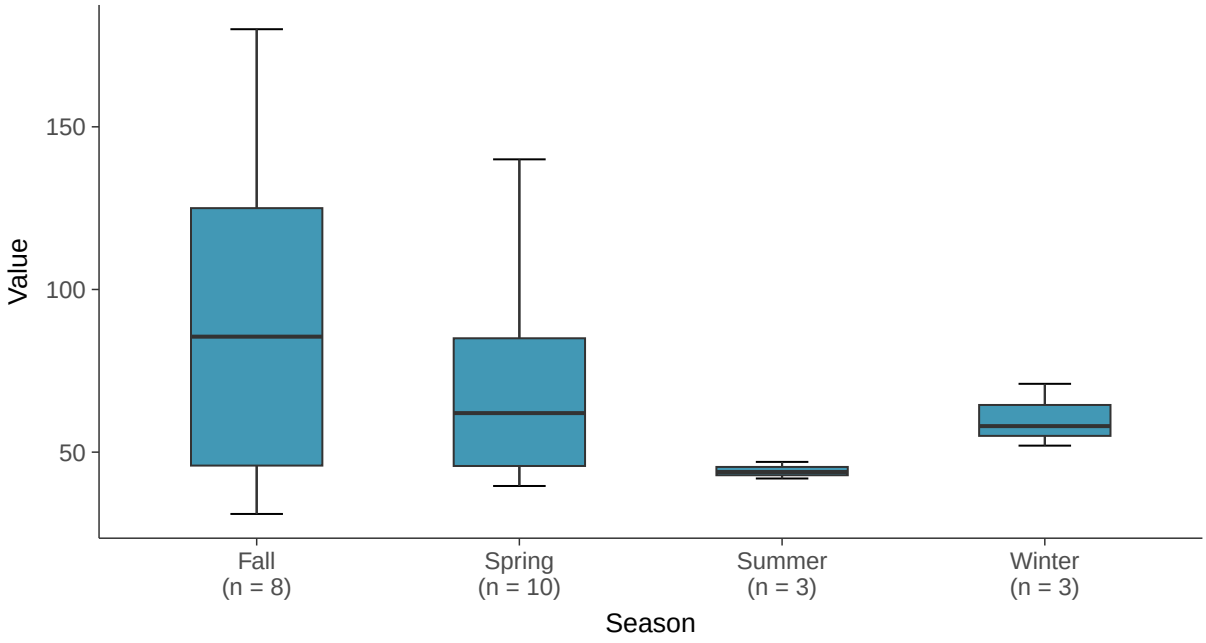
Boxplot

Barium, MW-15013 (ug/L)



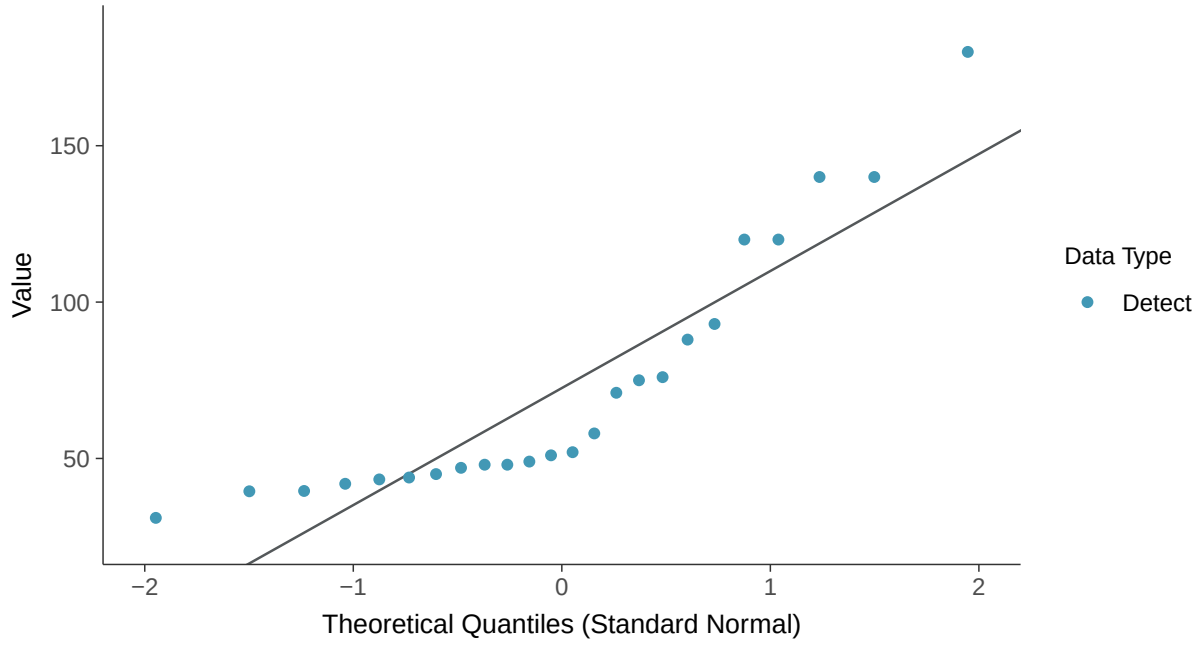
Boxplot by Season

Barium, MW-15013 (ug/L)



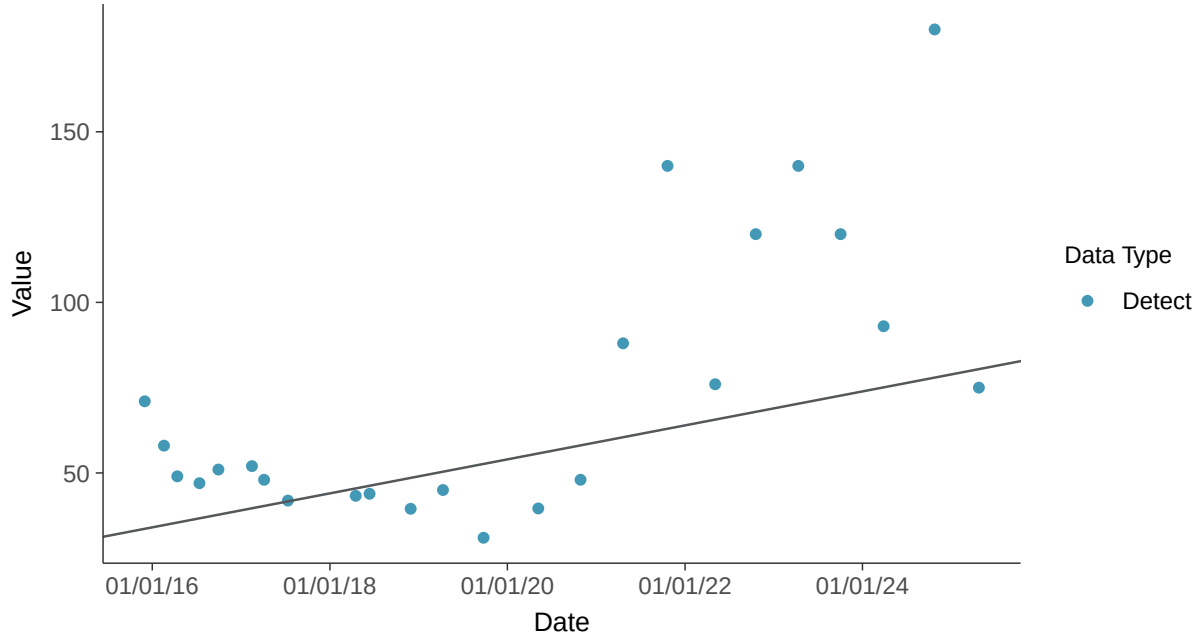
Normal Q-Q plot

Barium, MW-15013 (ug/L)



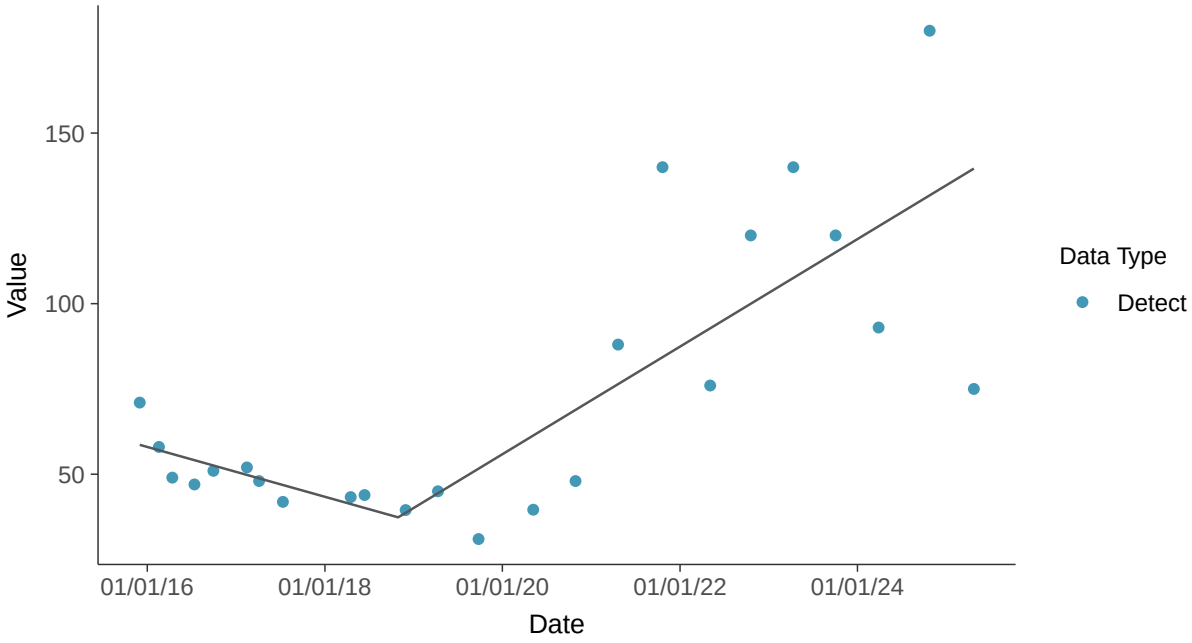
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Barium, MW-15013 (ug/L)



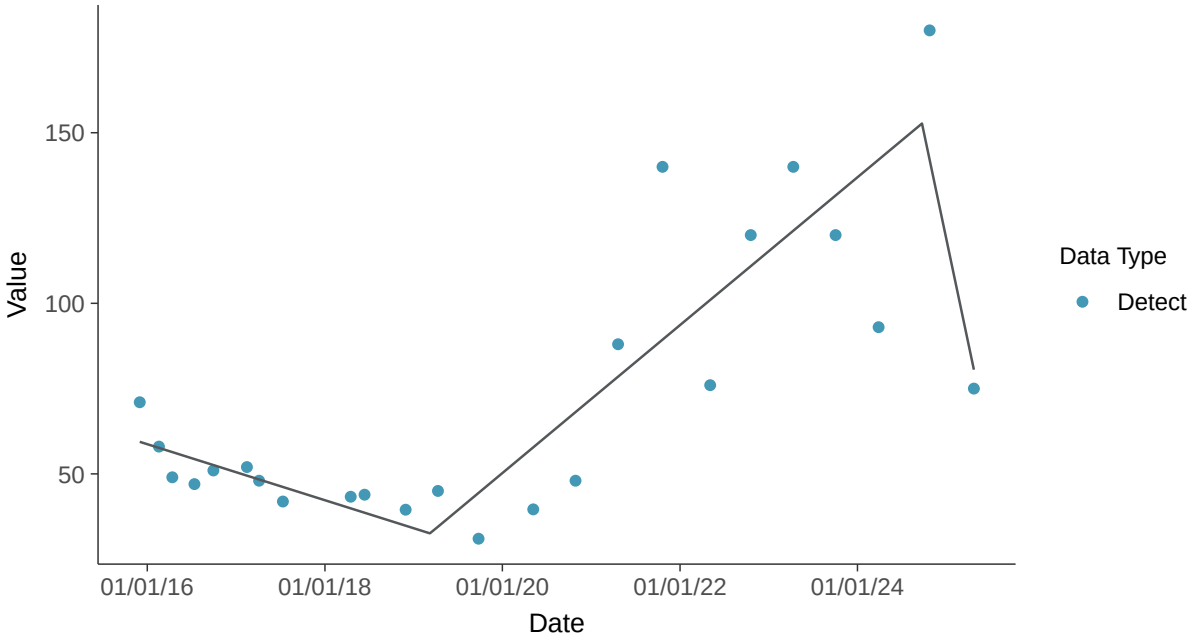
Trend Regression: Piecewise Linear-Linear

Barium, MW-15013 (ug/L)



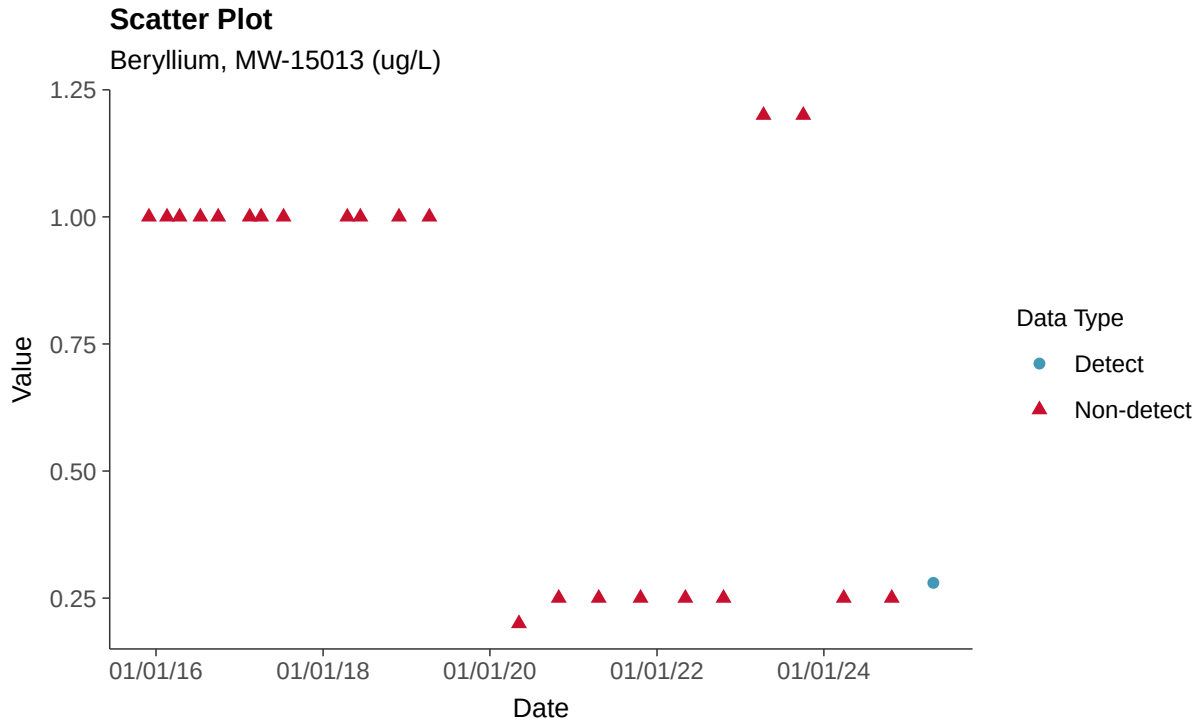
Trend Regression: Piecewise Linear-Linear-Linear

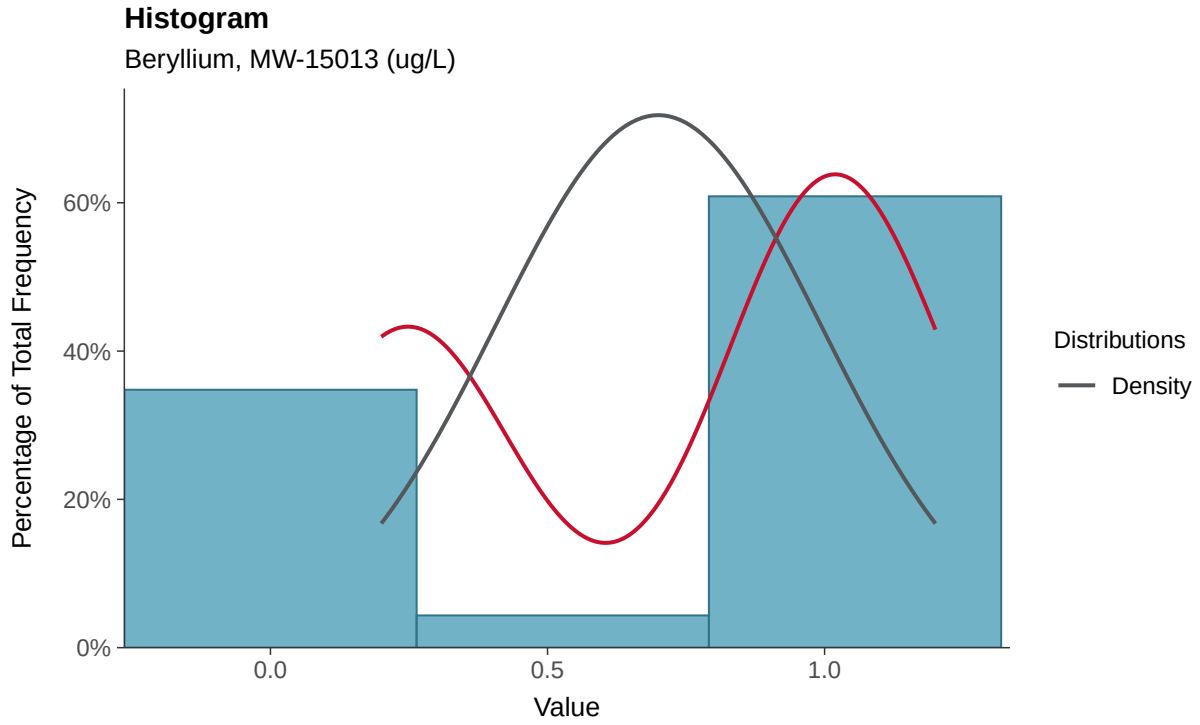
Barium, MW-15013 (ug/L)



Appendix IV: Beryllium, MW-15013

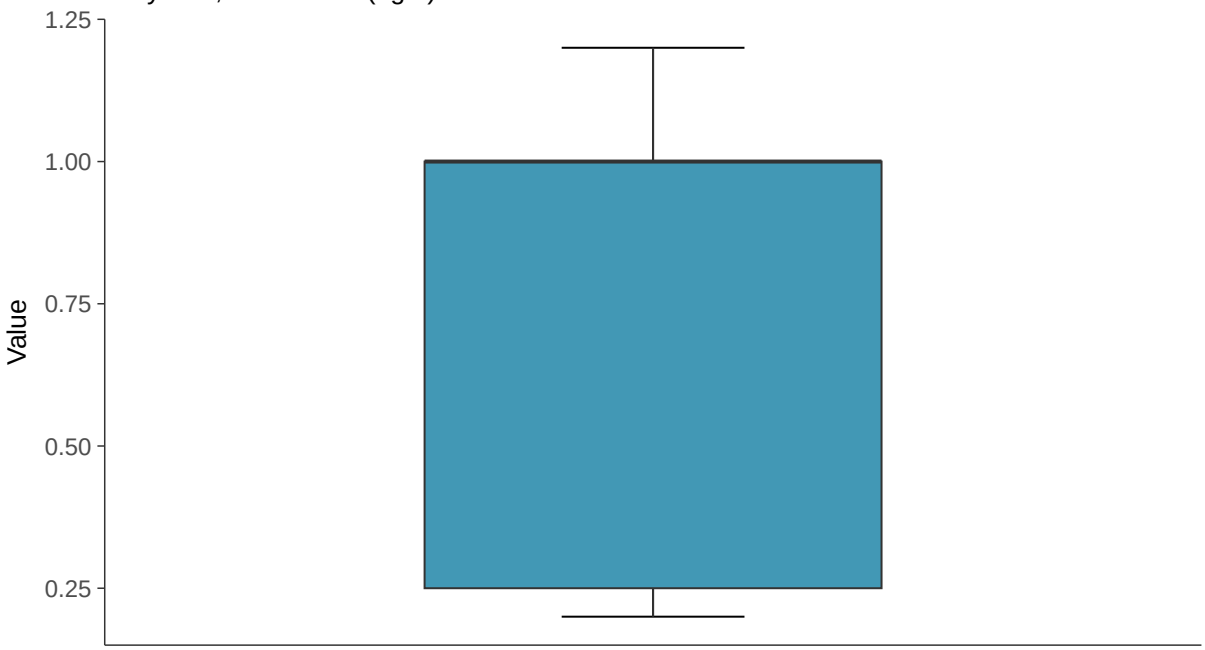
ID: 03_2_104





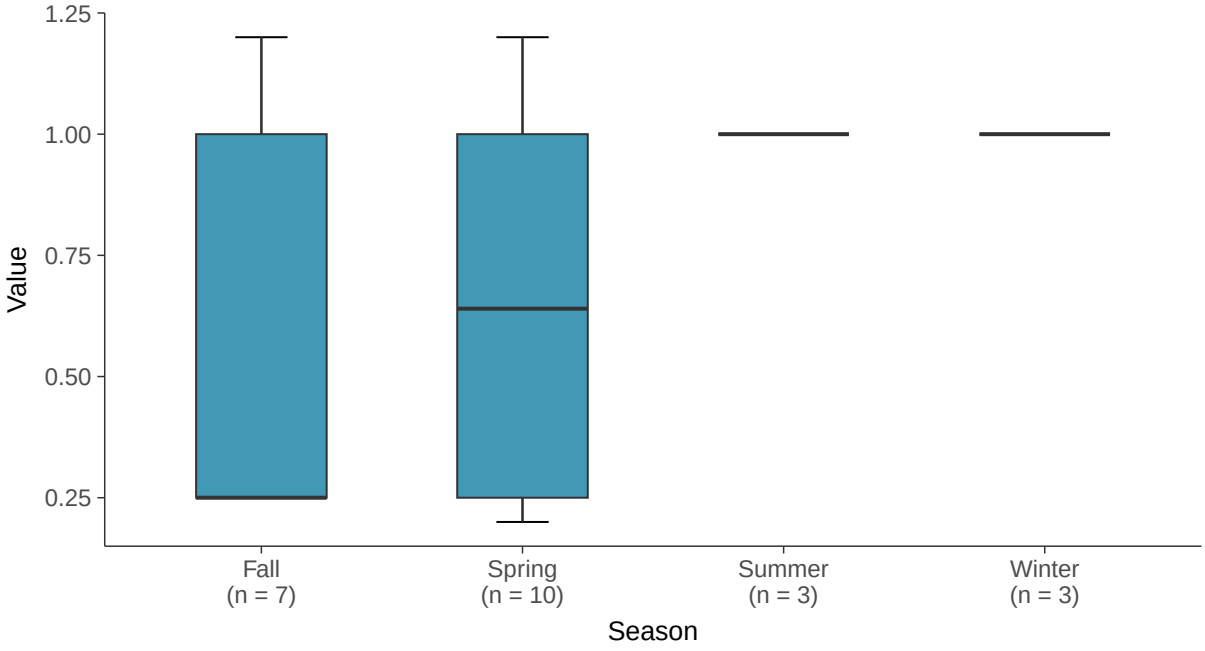
Boxplot

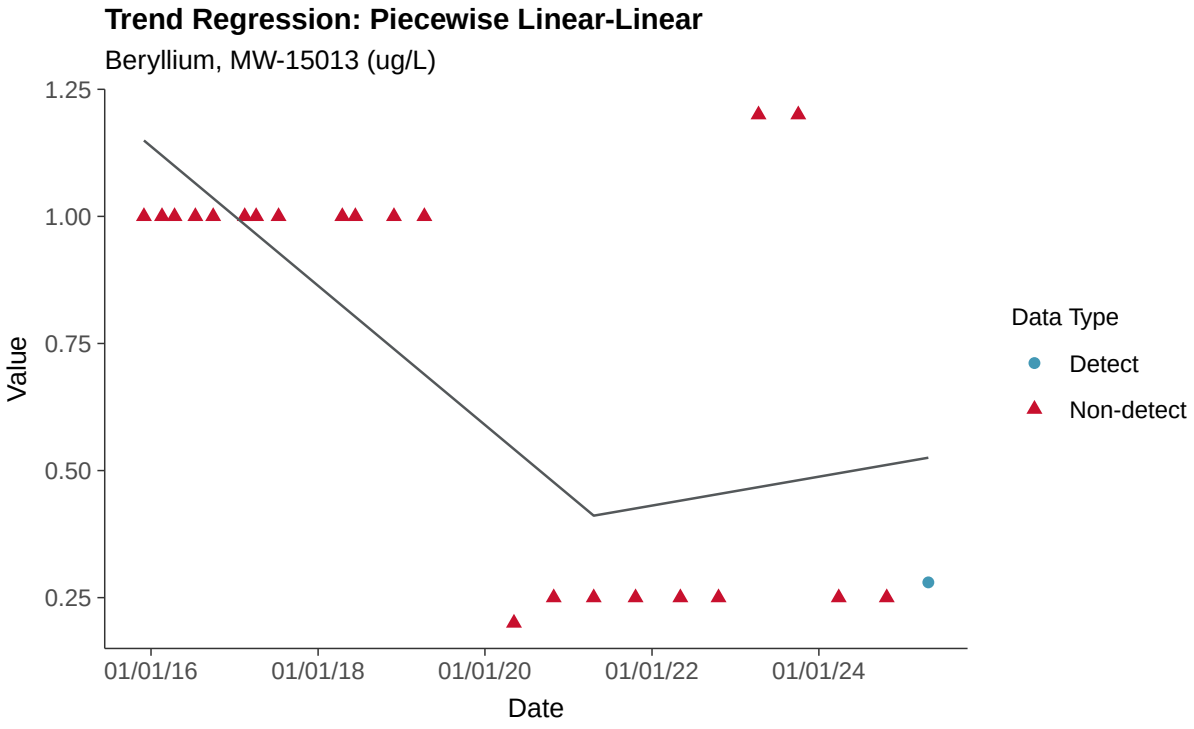
Beryllium, MW-15013 (ug/L)



Boxplot by Season

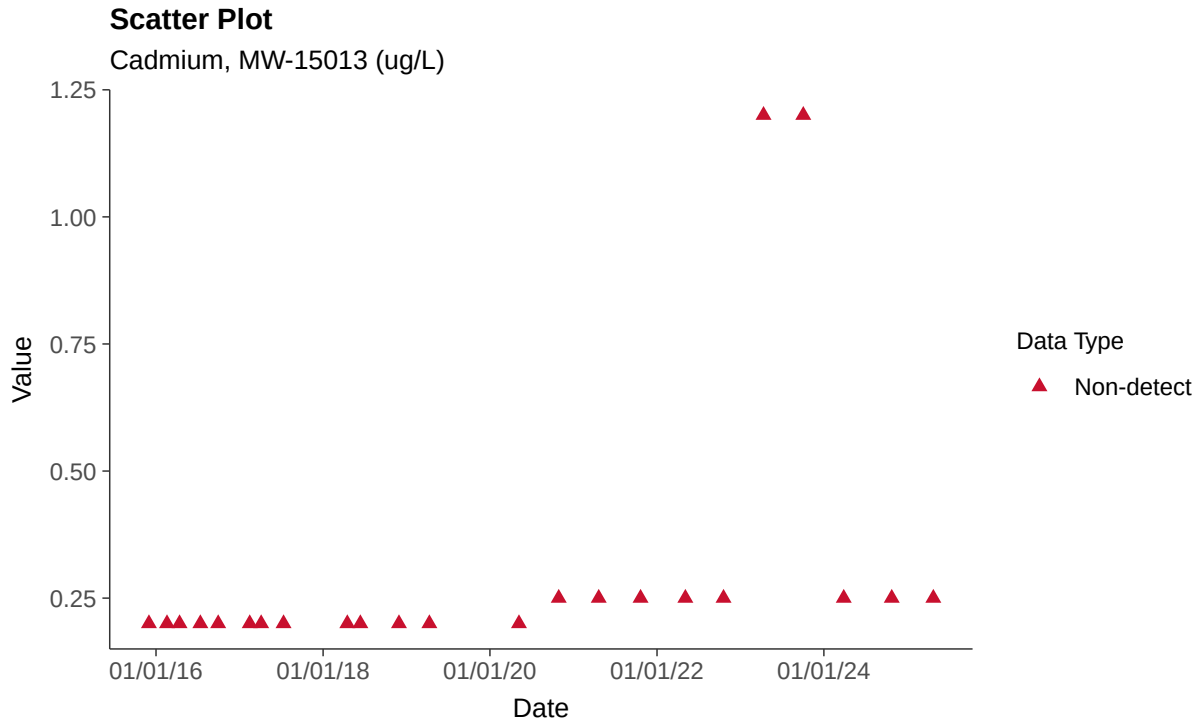
Beryllium, MW-15013 (ug/L)

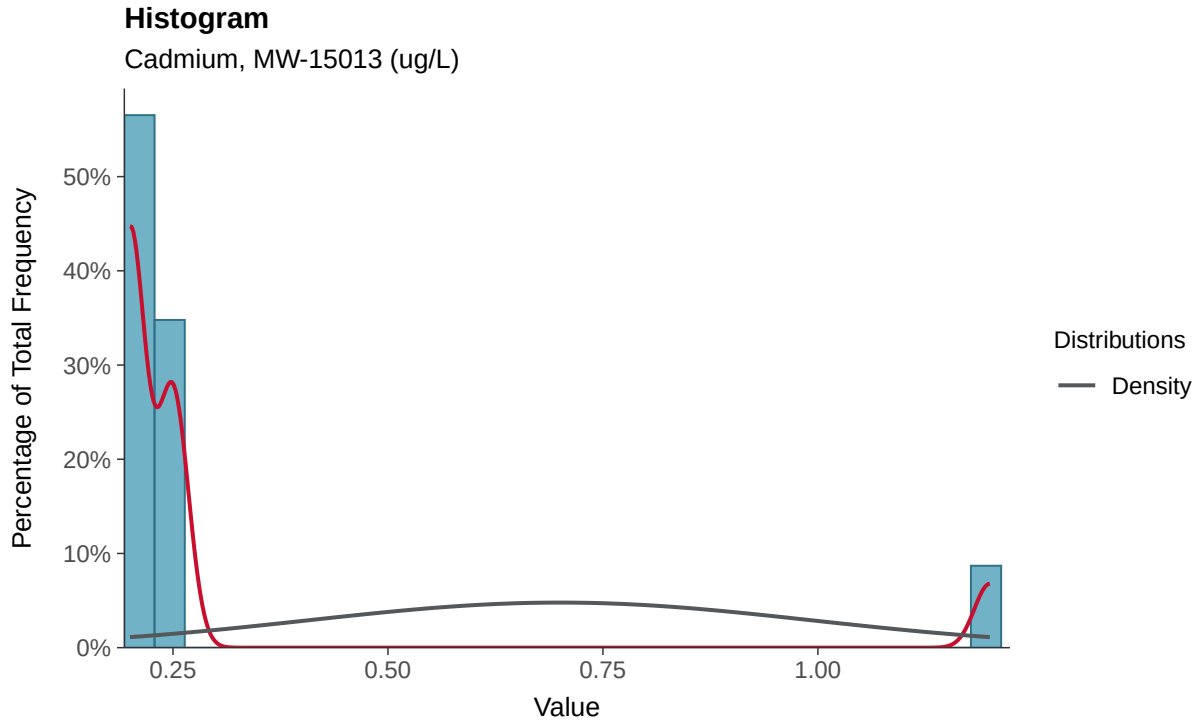



Trend Regression: Piecewise Linear-Linear
Beryllium, MW-15013 (ug/L)
Value
1.25
1.00
0.75
0.50
0.25
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Detect
Non-detect

Appendix IV: Cadmium, MW-15013

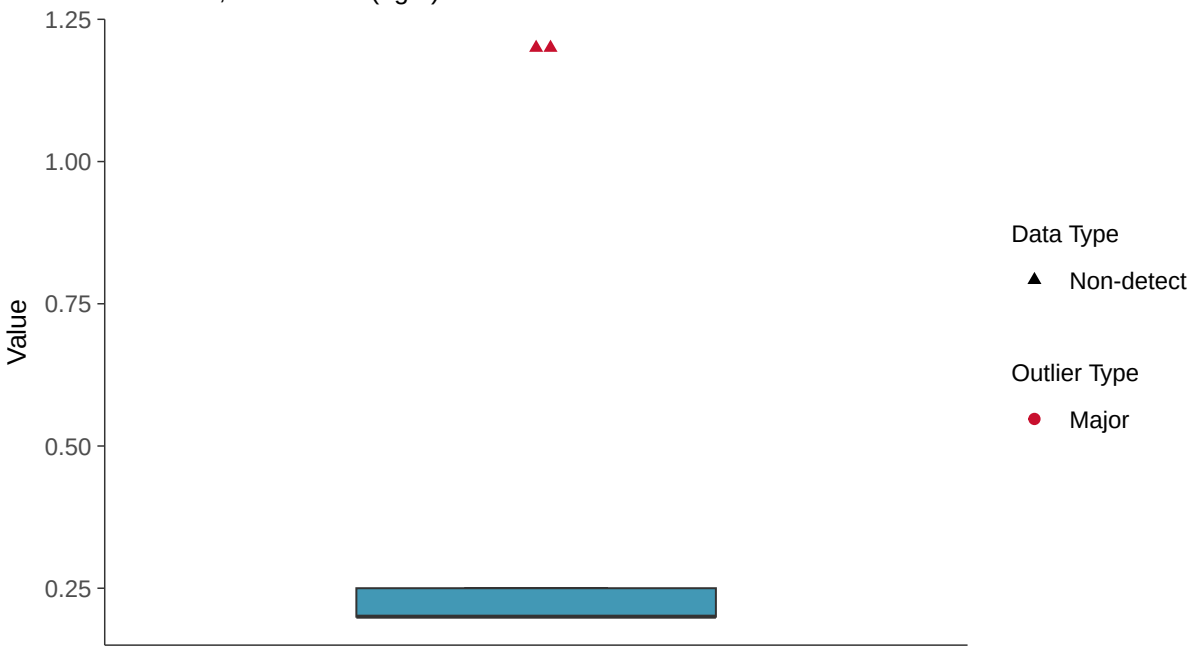
ID: 03_2_106





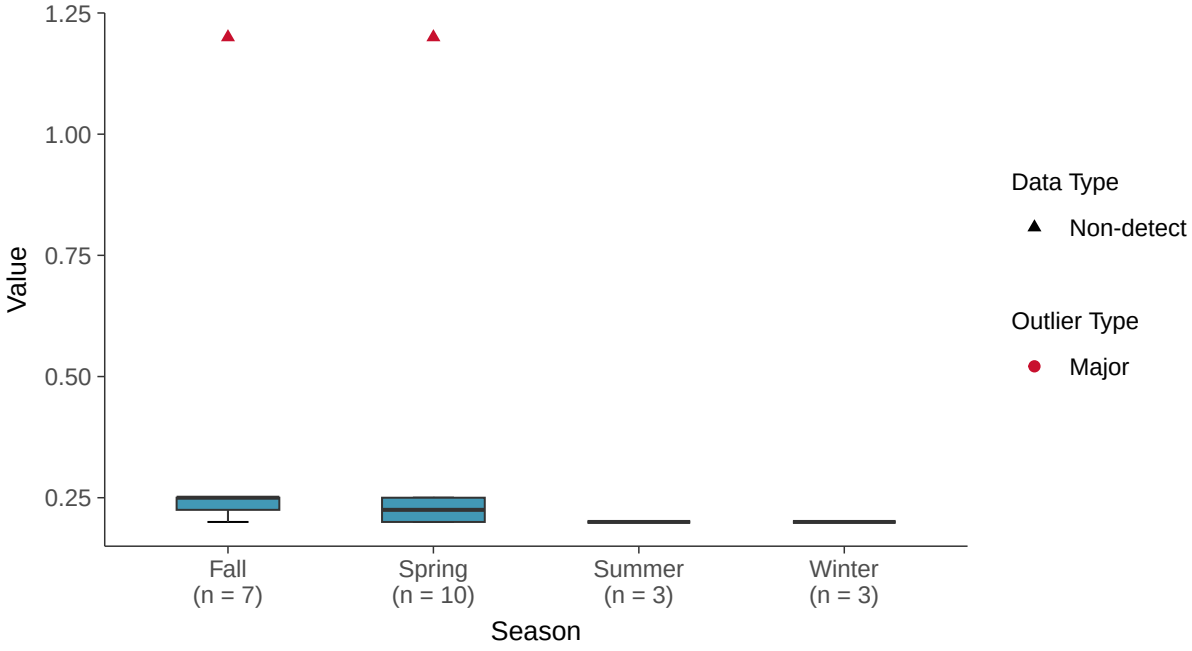
Boxplot

Cadmium, MW-15013 (ug/L)



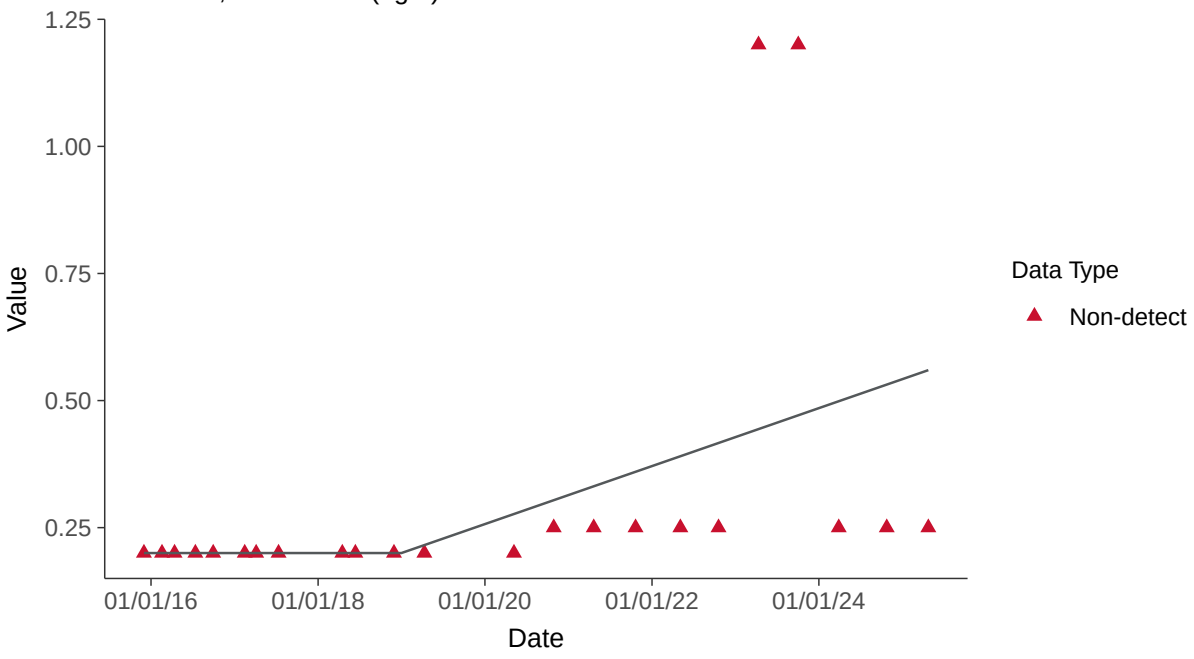
Boxplot by Season

Cadmium, MW-15013 (ug/L)



Trend Regression: Piecewise Linear-Linear

Cadmium, MW-15013 (ug/L)

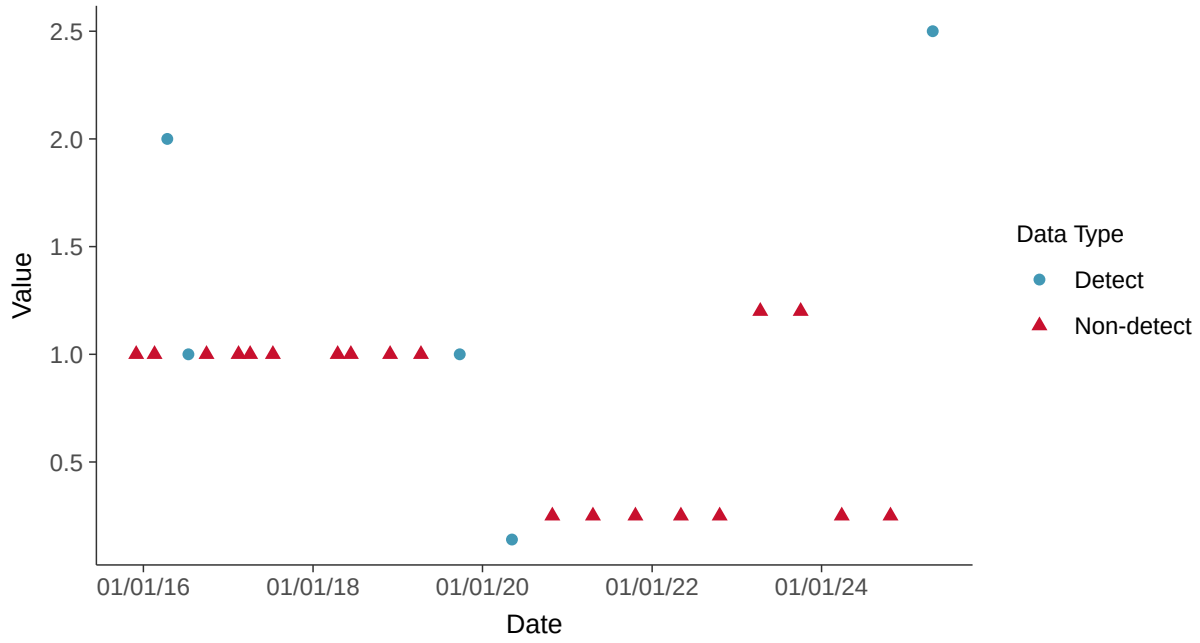


Appendix IV: Chromium, MW-15013

ID: 03_2_109

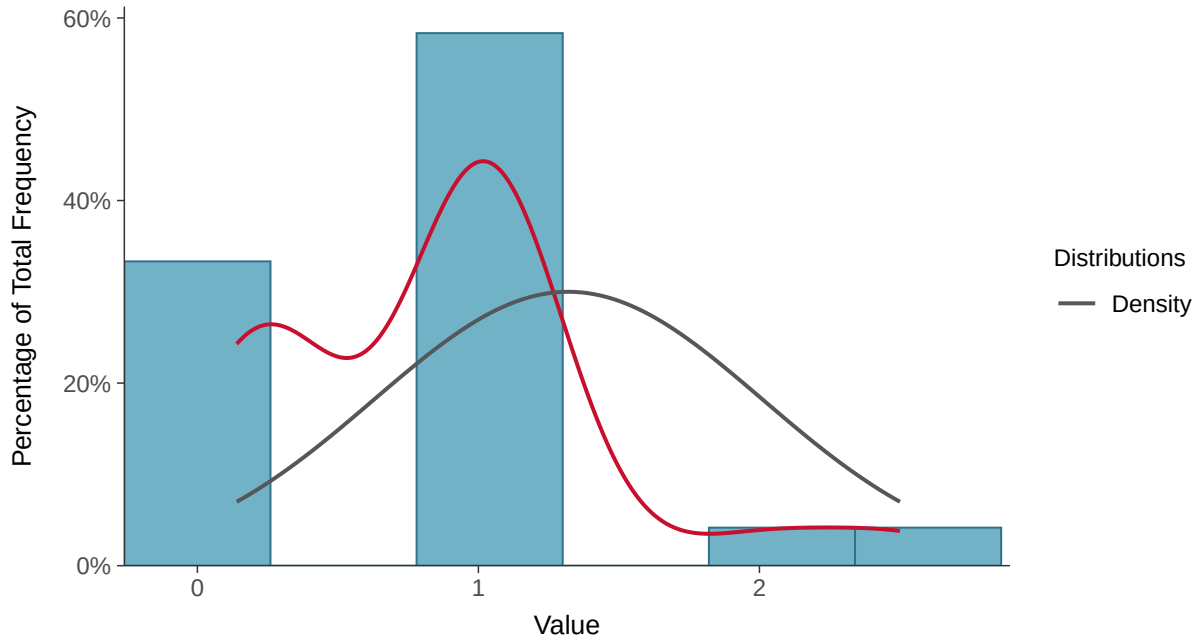
Scatter Plot

Chromium, MW-15013 (ug/L)



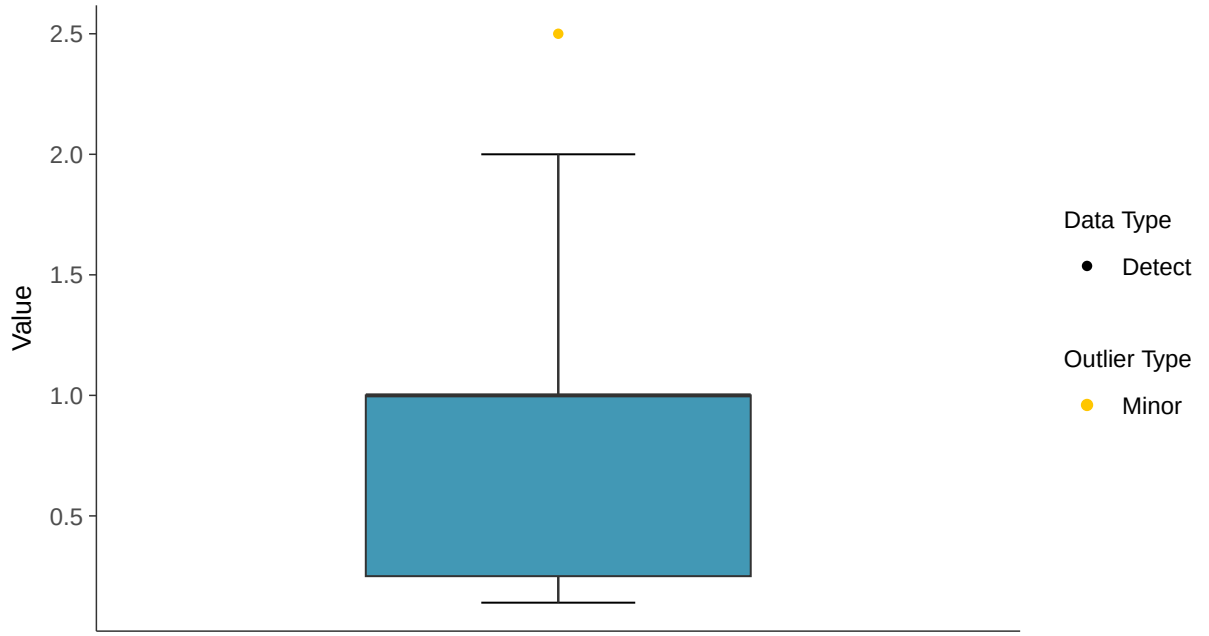
Histogram

Chromium, MW-15013 (ug/L)



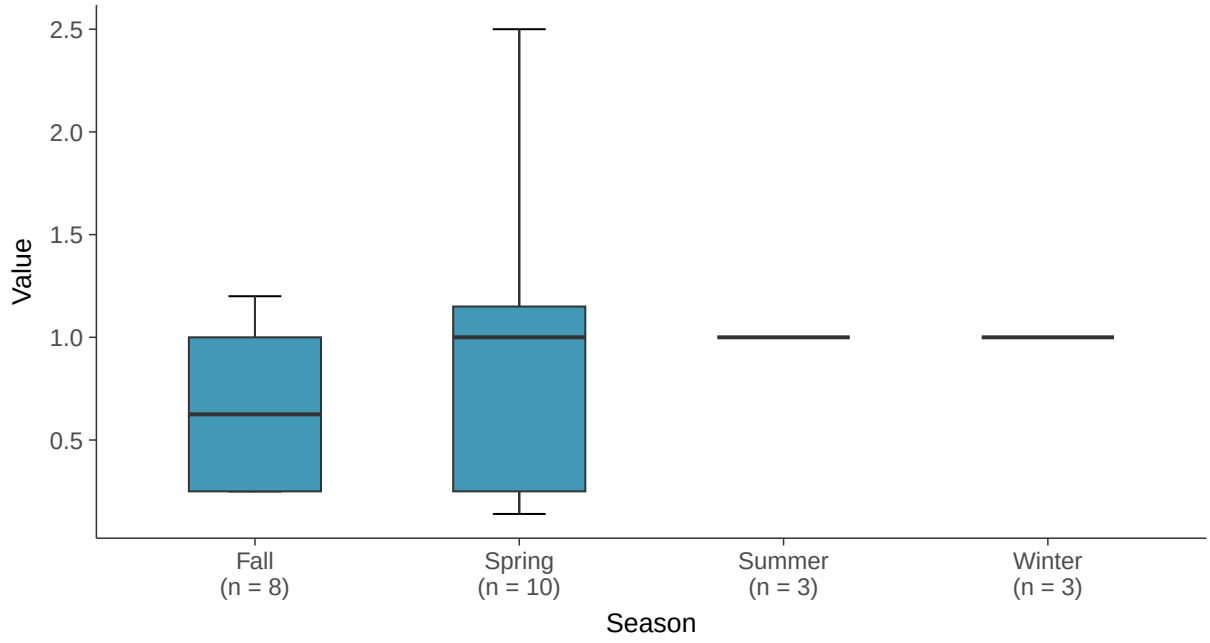
Boxplot

Chromium, MW-15013 (ug/L)



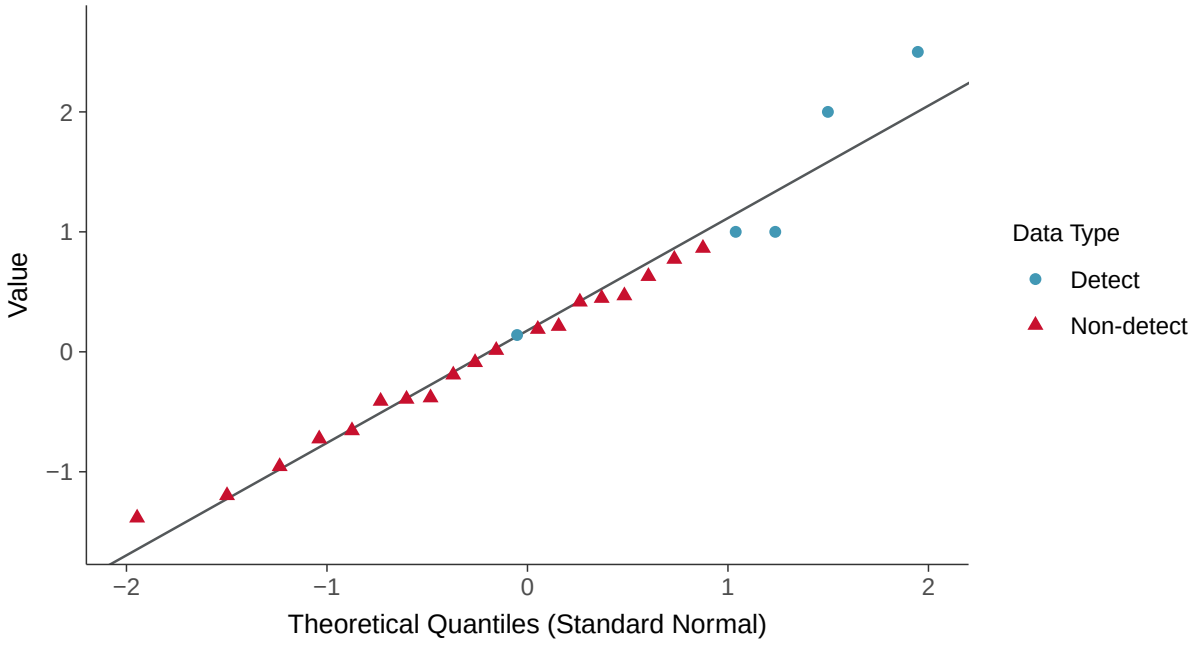
Boxplot by Season

Chromium, MW-15013 (ug/L)



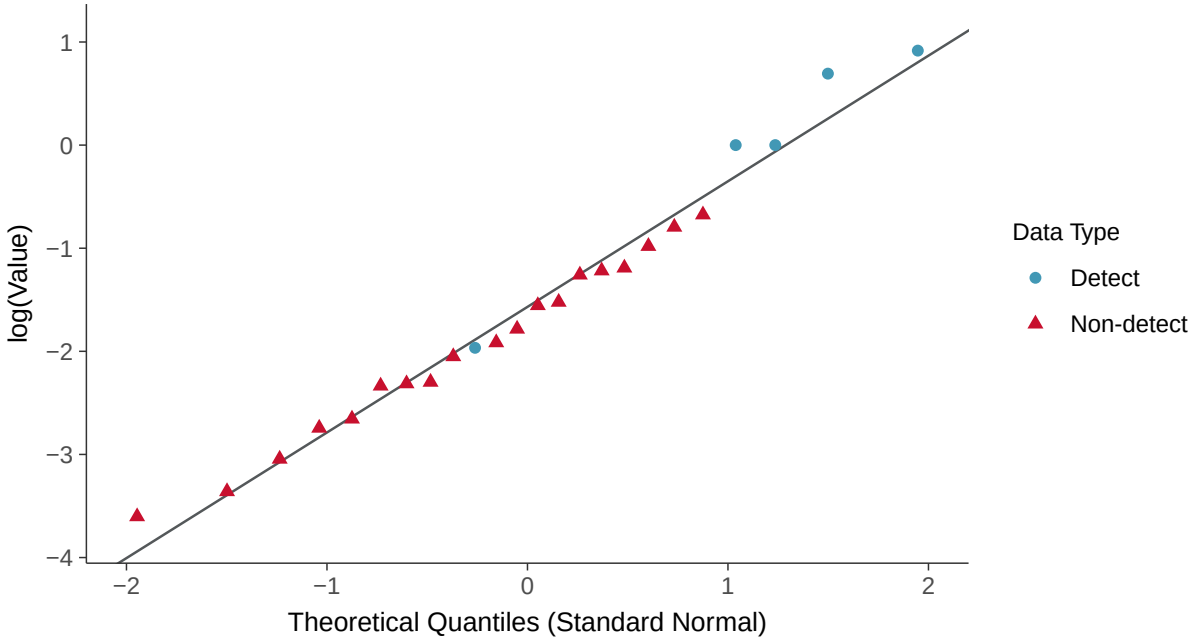
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15013 (ug/L)



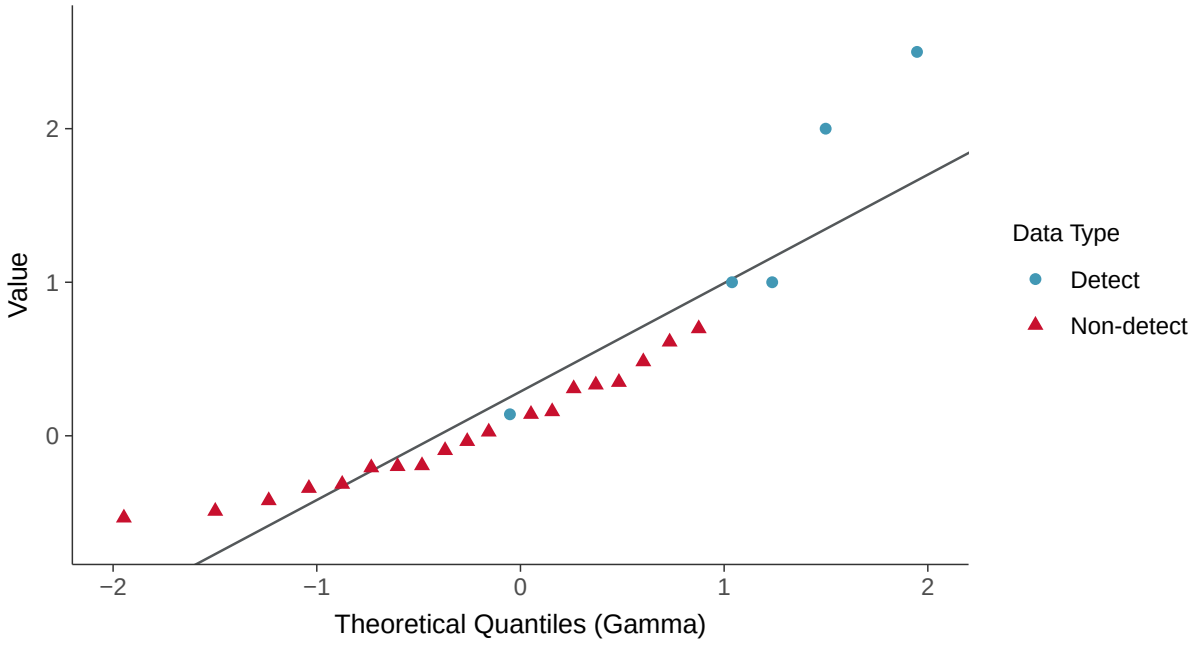
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15013 (ug/L)



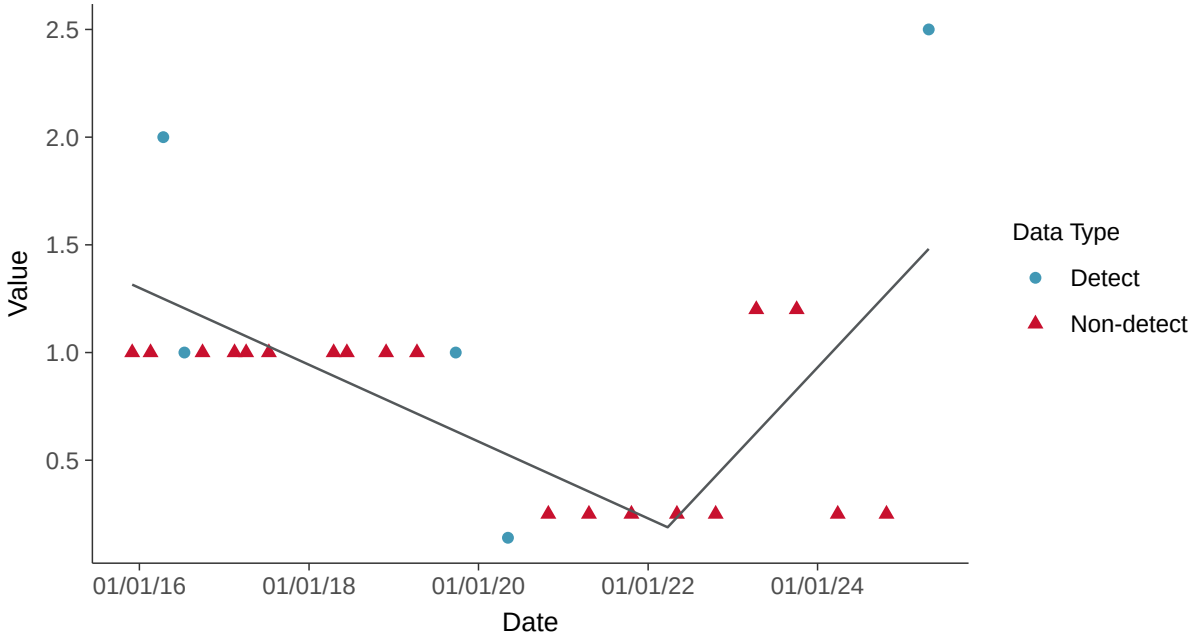
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, MW-15013 (ug/L)



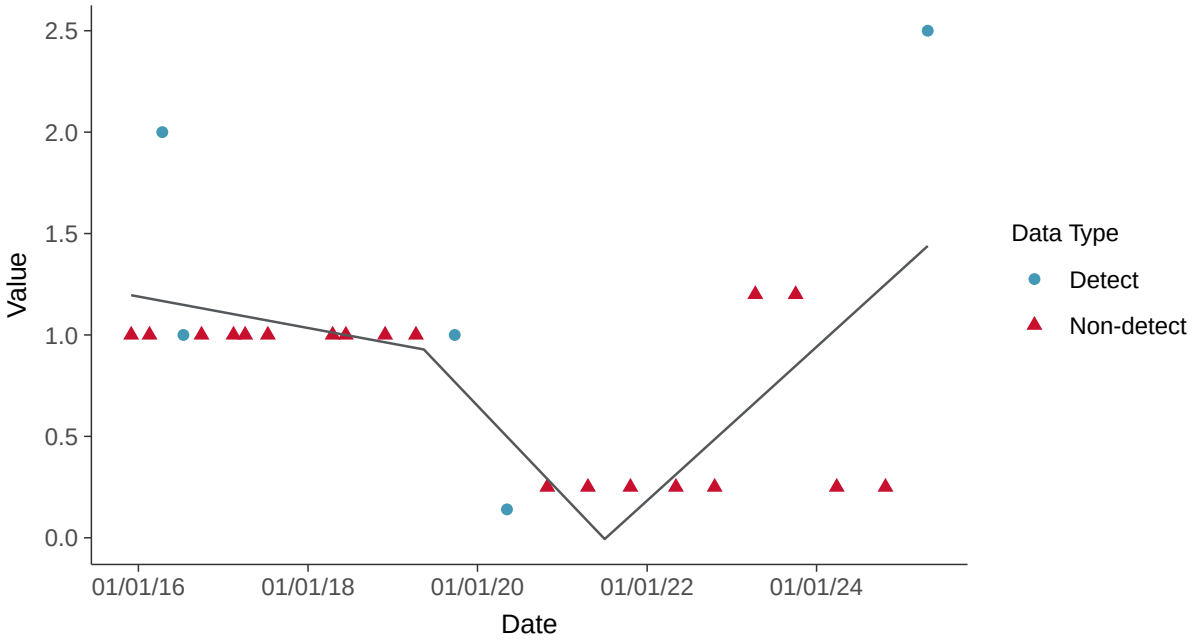
Trend Regression: Piecewise Linear-Linear

Chromium, MW-15013 (ug/L)



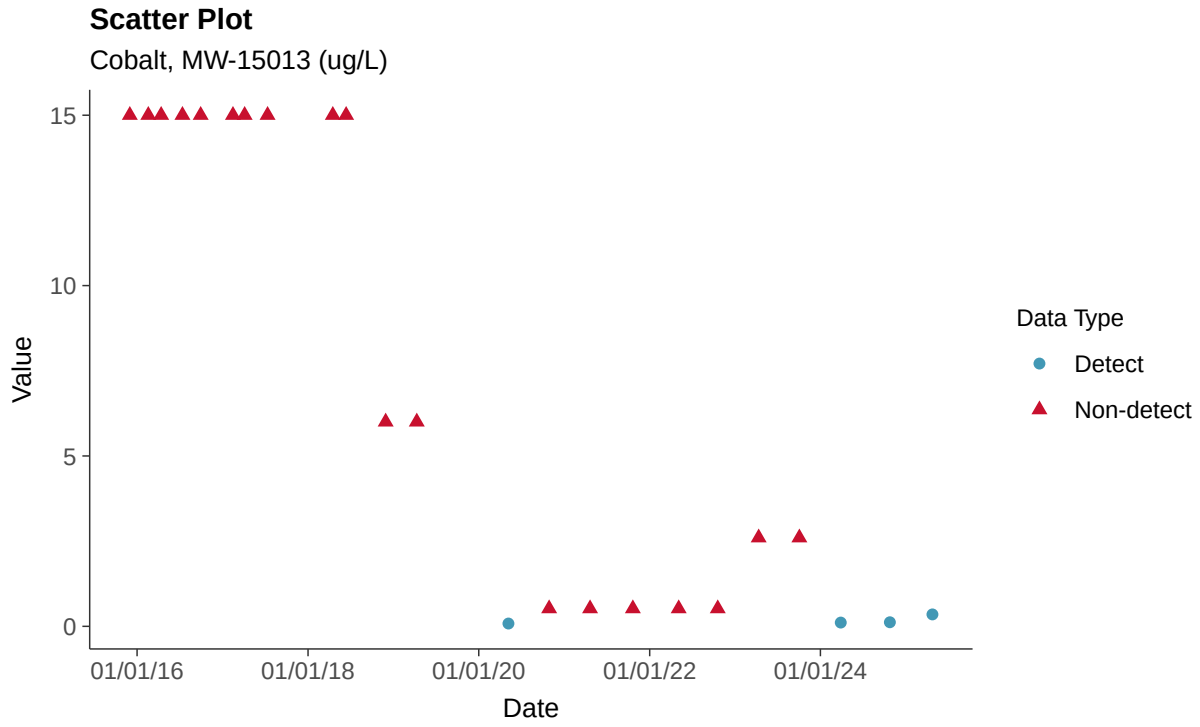
Trend Regression: Piecewise Linear-Linear-Linear

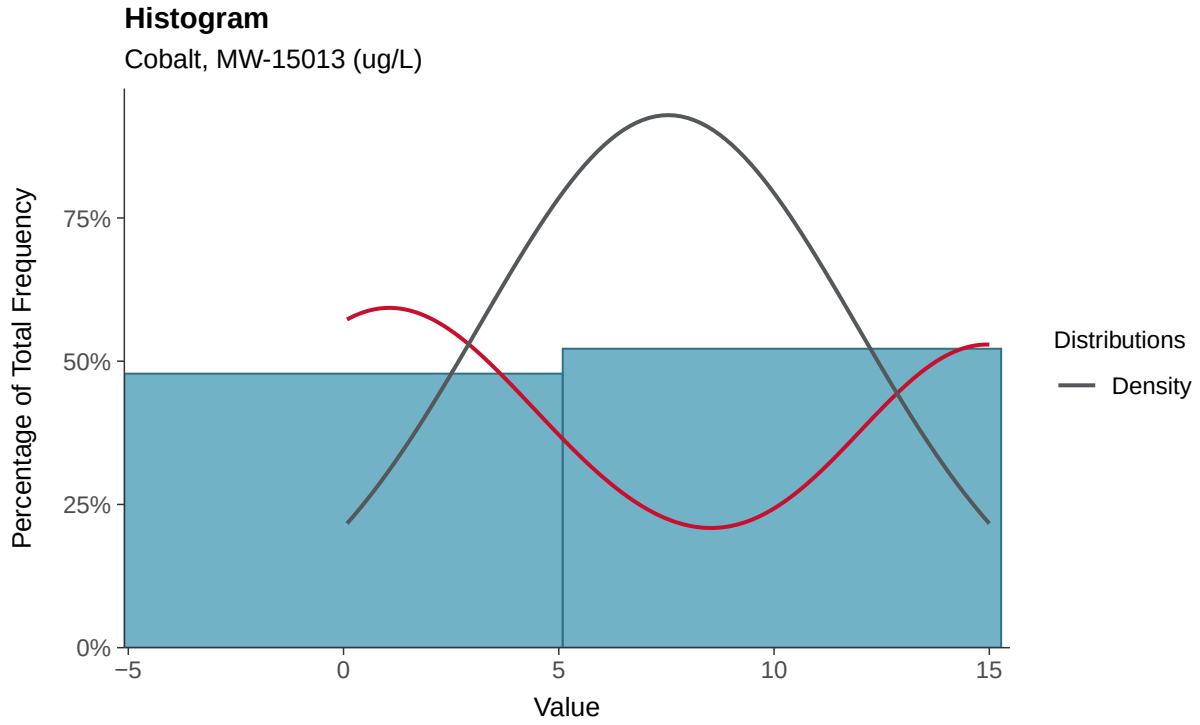
Chromium, MW-15013 (ug/L)



Appendix IV: Cobalt, MW-15013

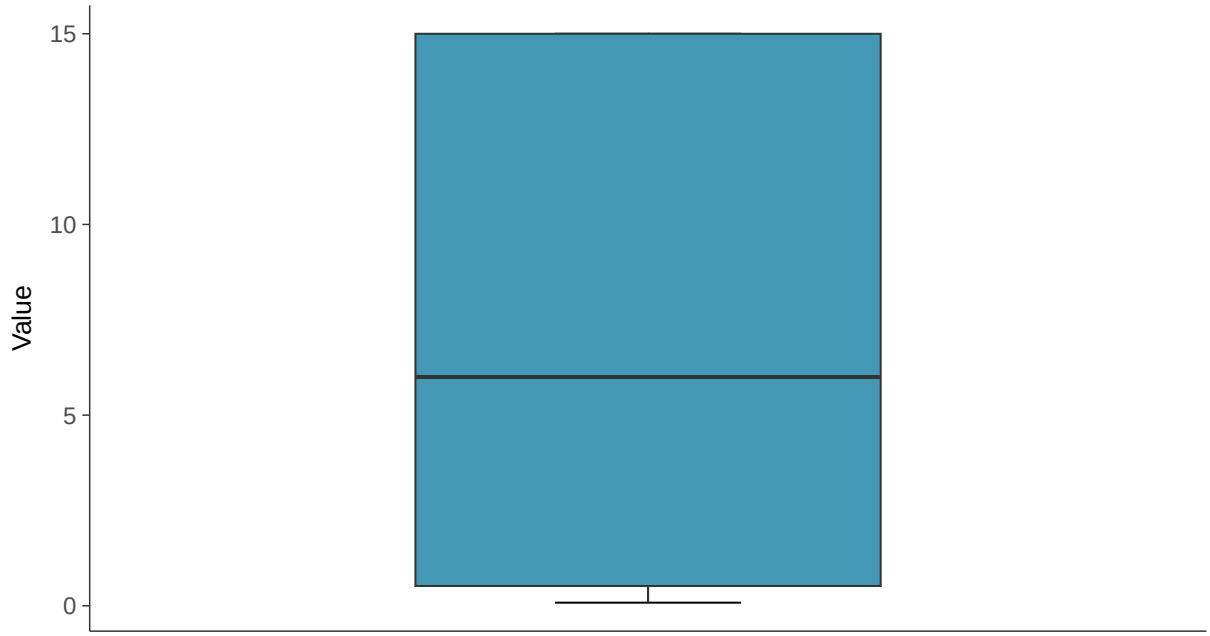
ID: 03_2_110





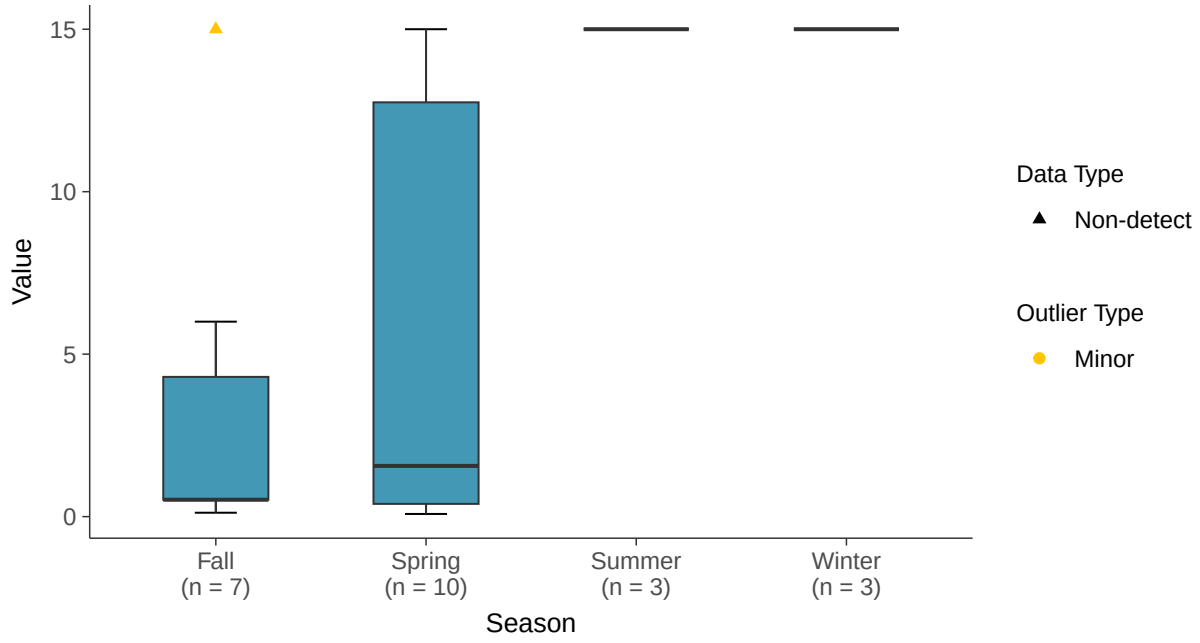
Boxplot

Cobalt, MW-15013 (ug/L)



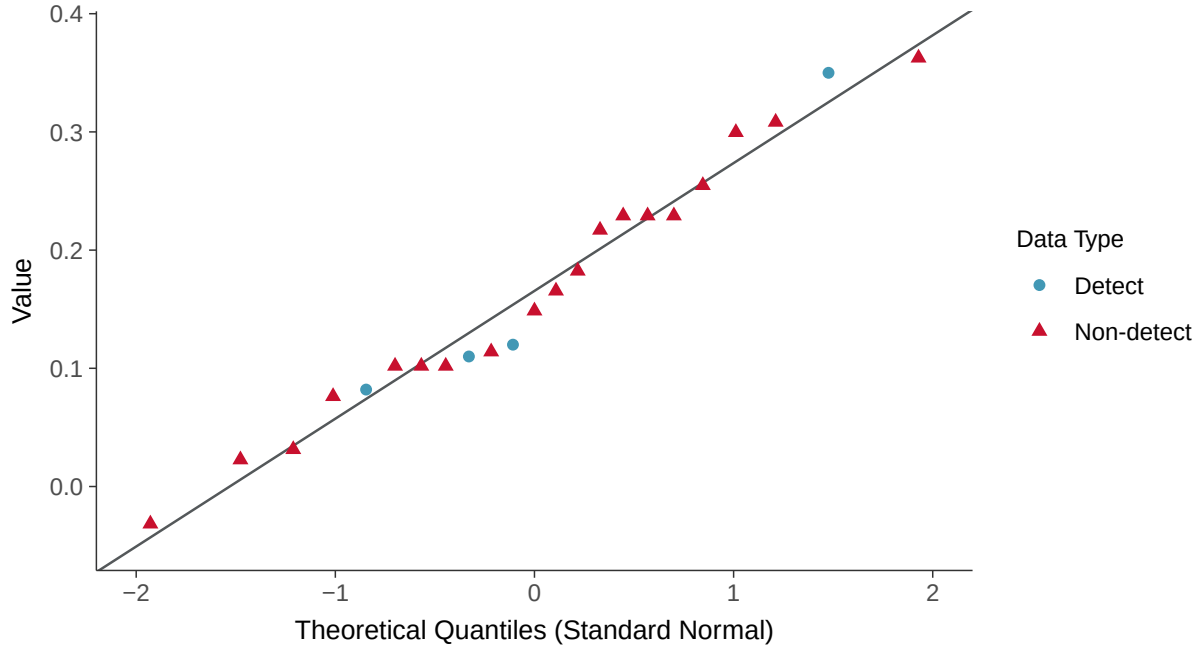
Boxplot by Season

Cobalt, MW-15013 (ug/L)



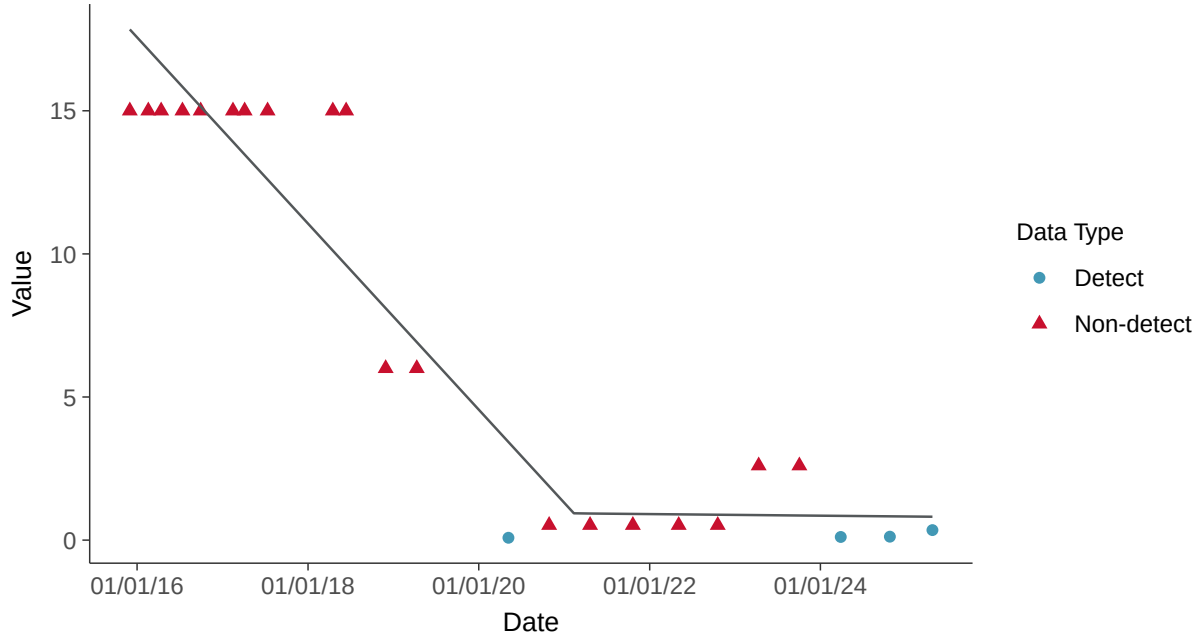
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15013 (ug/L)



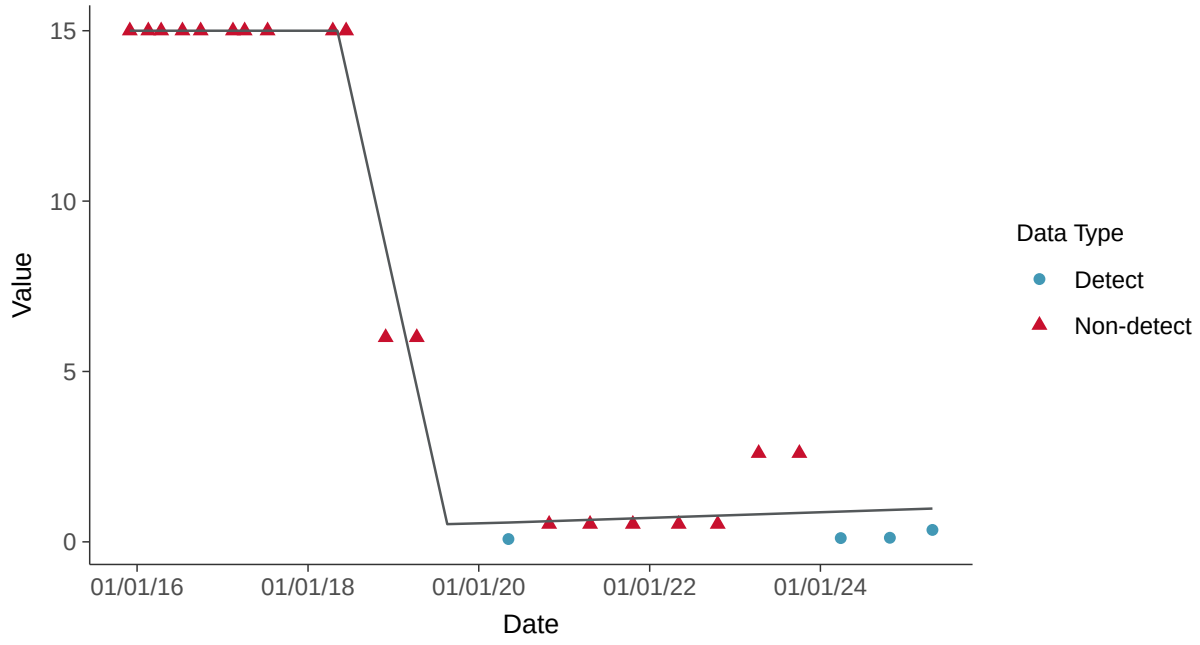
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15013 (ug/L)



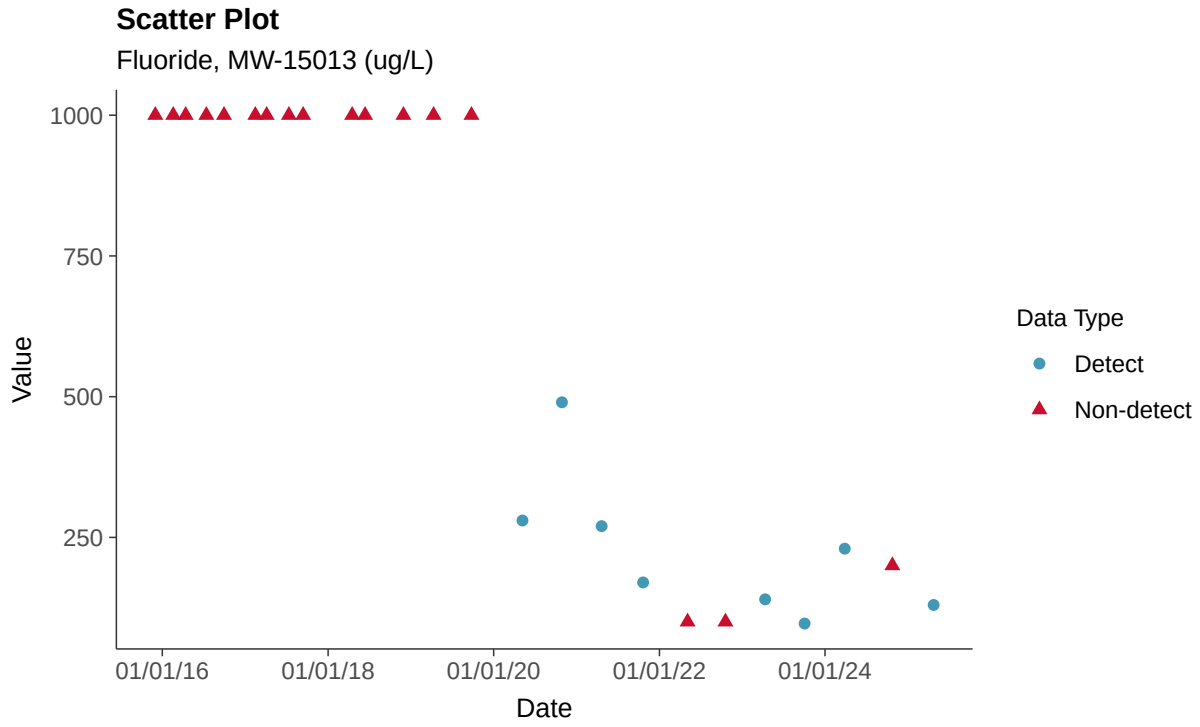
Trend Regression: Piecewise Linear-Linear-Linear

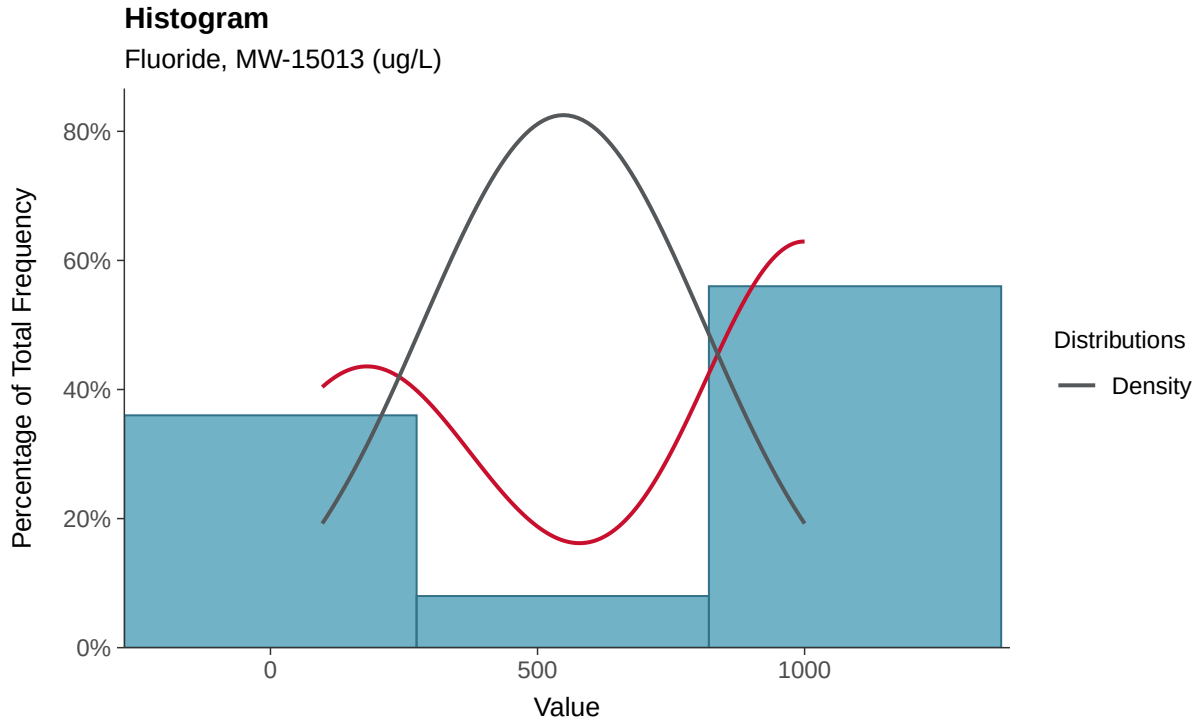
Cobalt, MW-15013 (ug/L)



Appendix IV: Fluoride, MW-15013

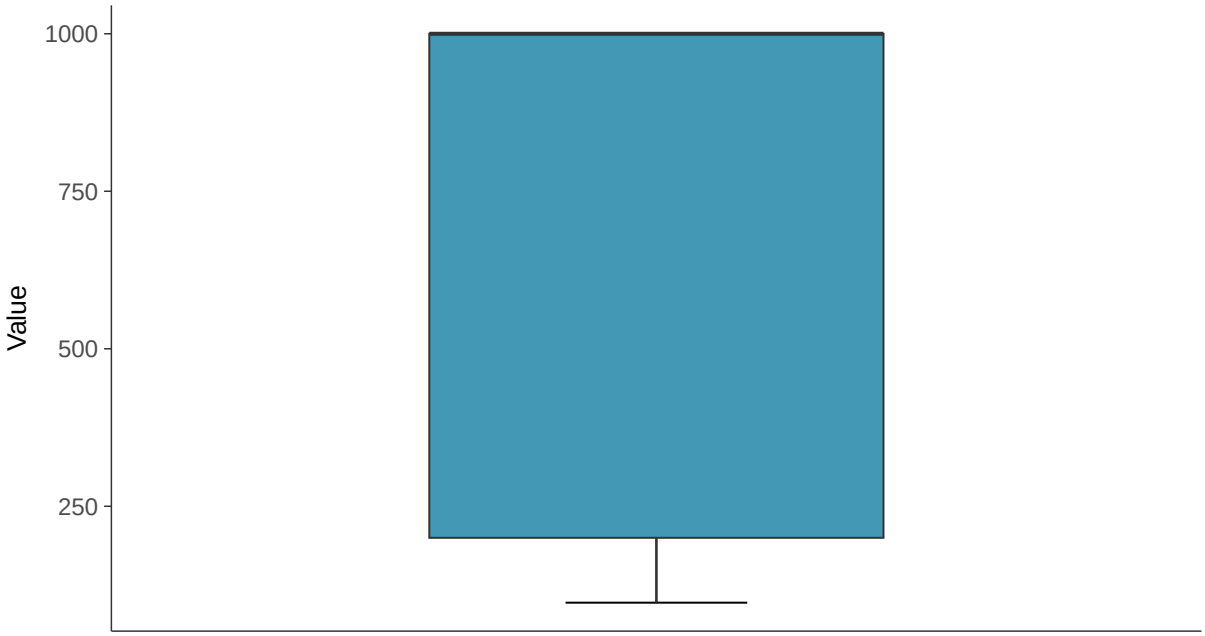
ID: 03_2_114





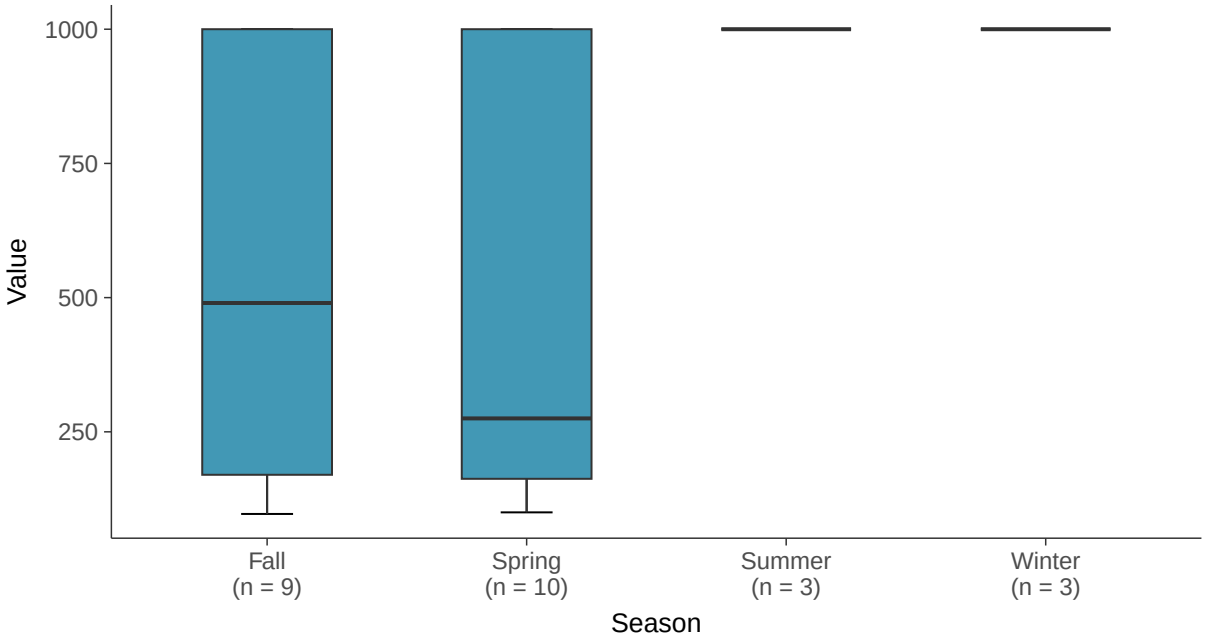
Boxplot

Fluoride, MW-15013 (ug/L)



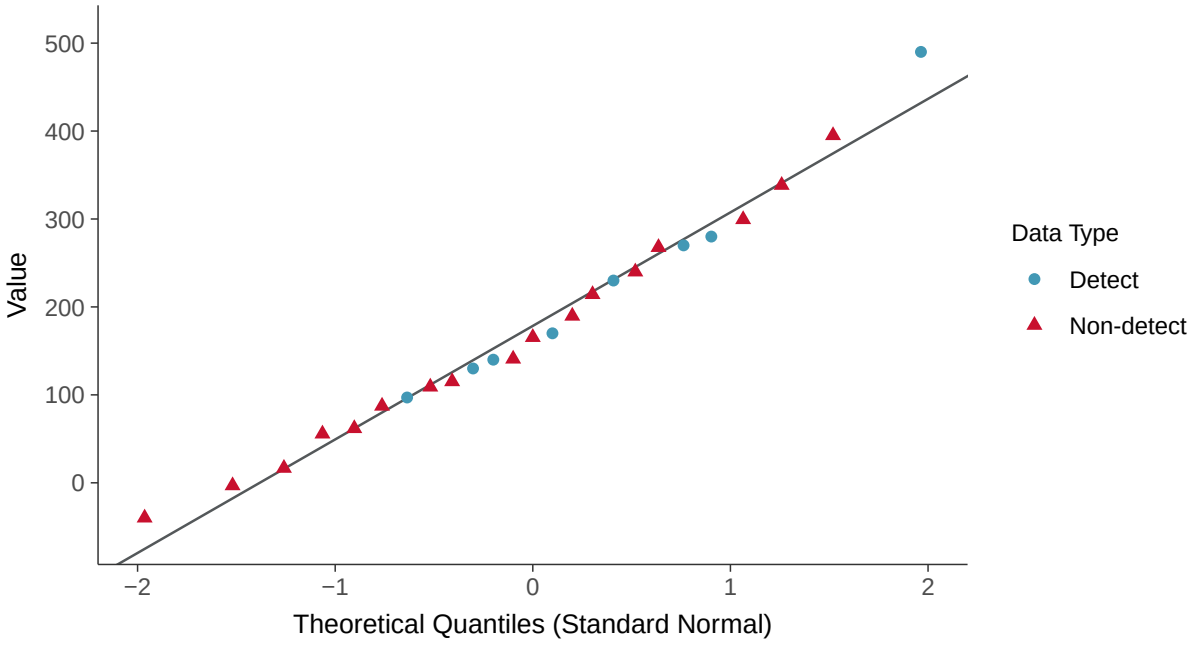
Boxplot by Season

Fluoride, MW-15013 (ug/L)



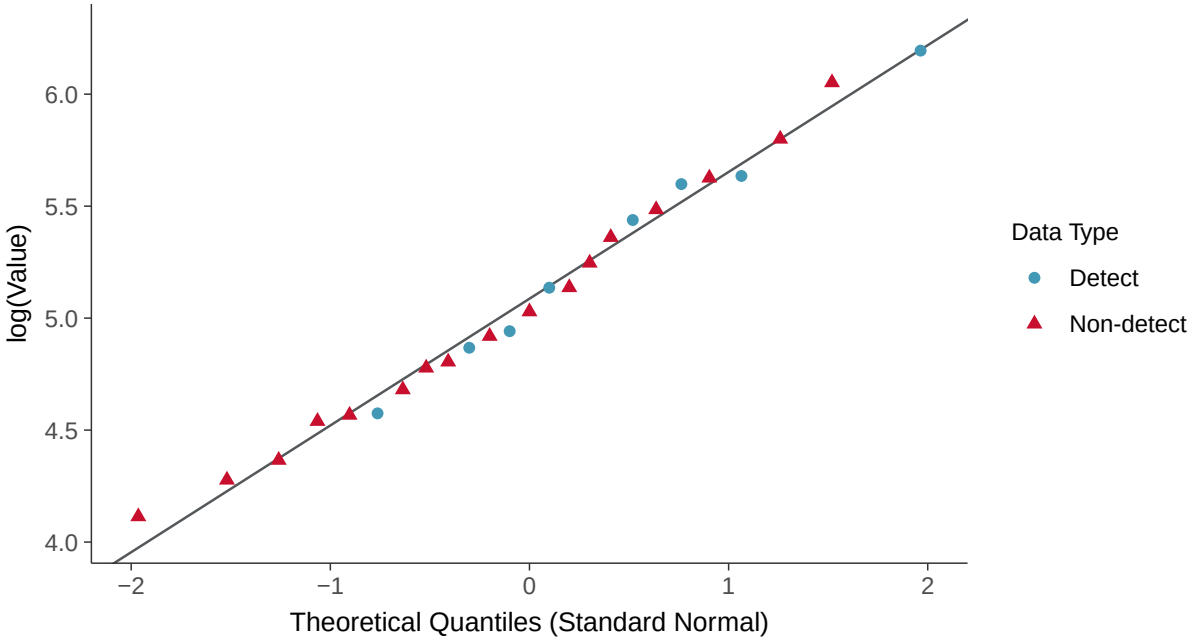
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15013 (ug/L)



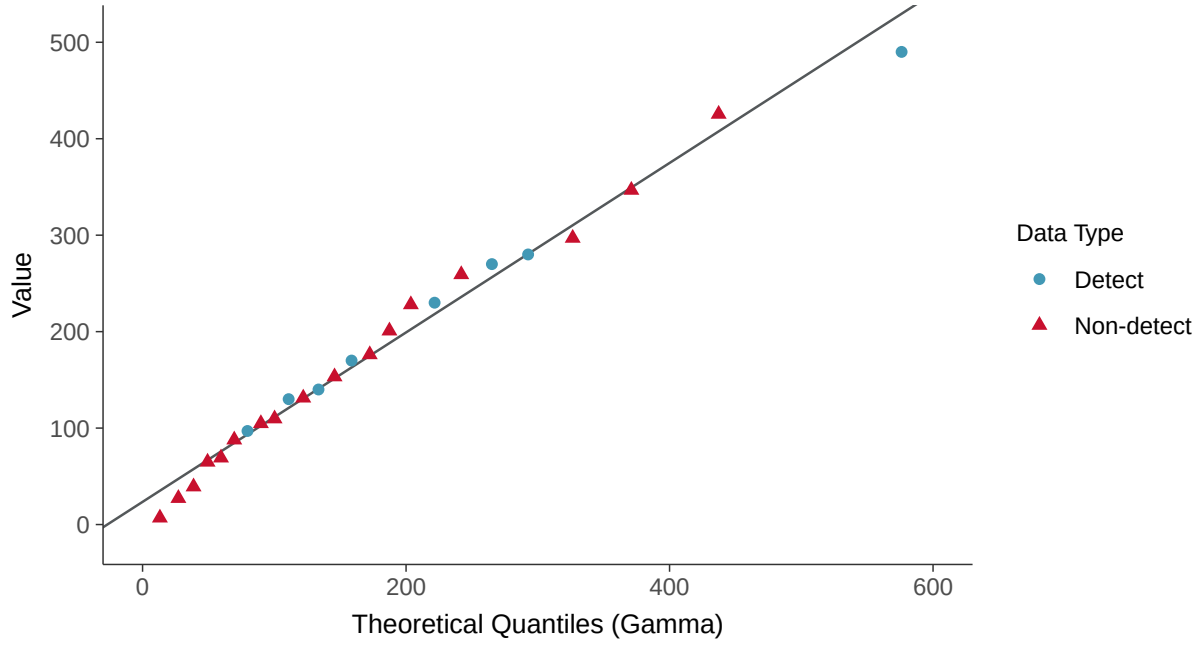
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15013 (ug/L)



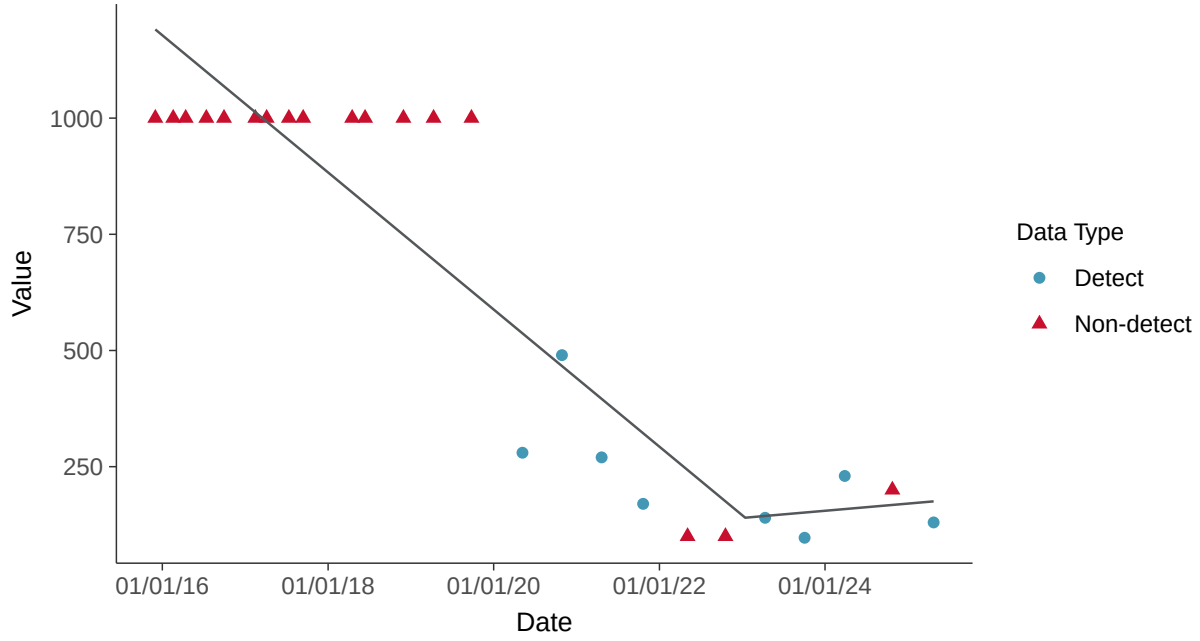
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15013 (ug/L)



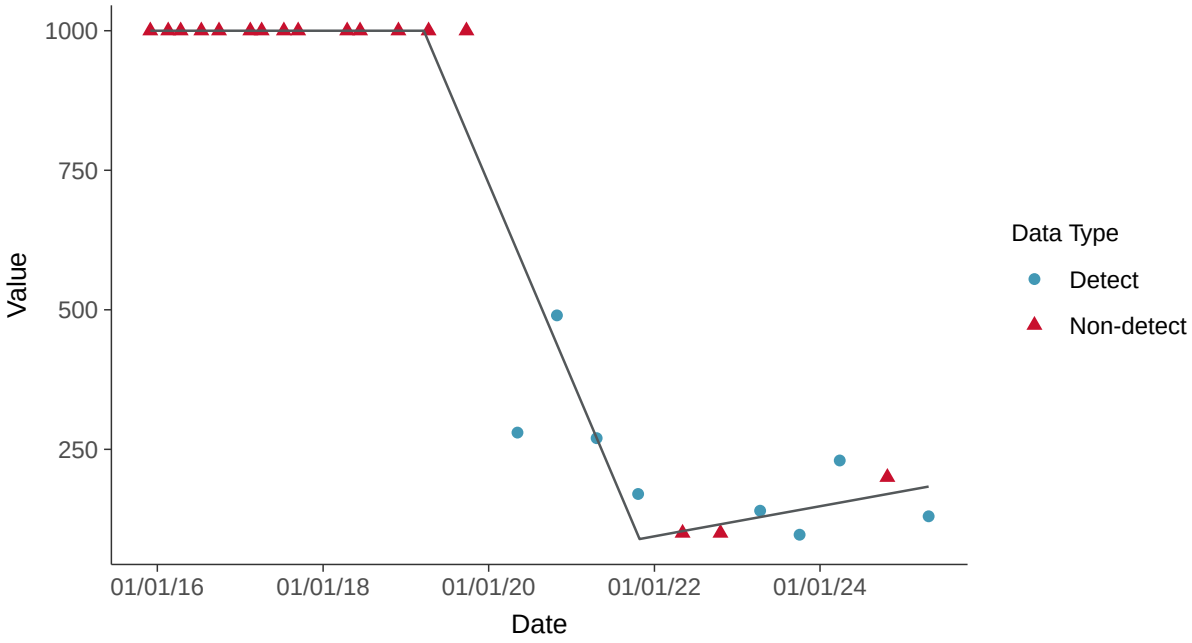
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-15013 (ug/L)



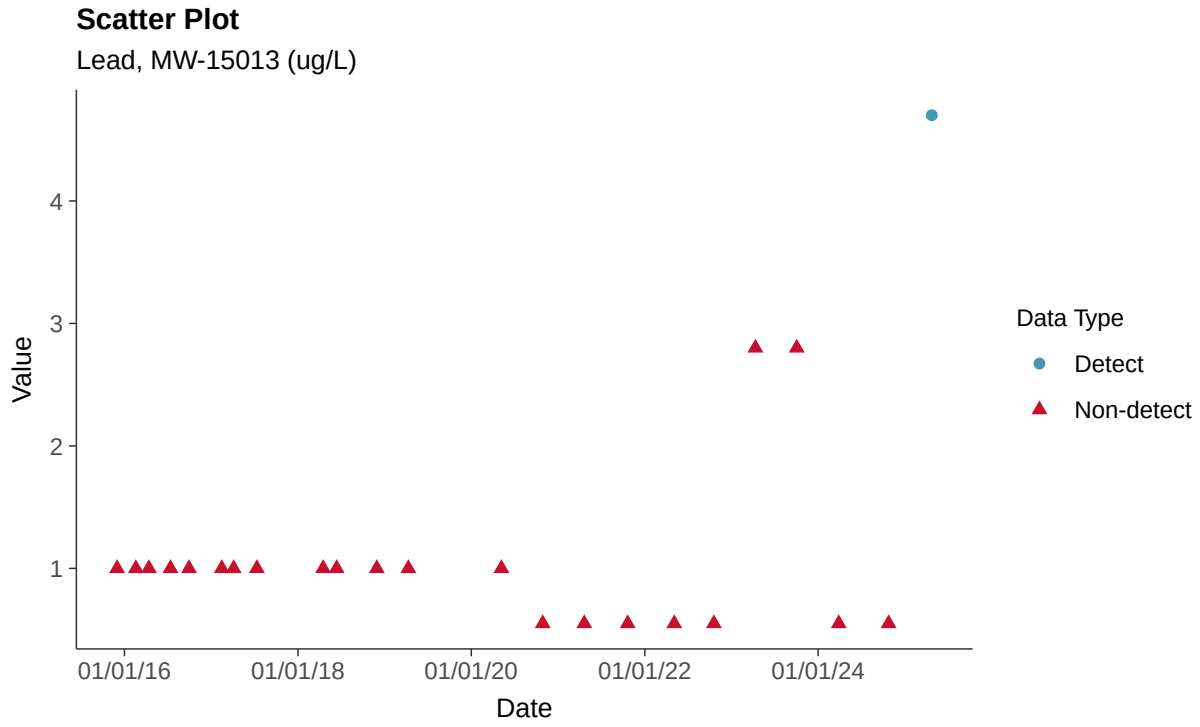
Trend Regression: Piecewise Linear-Linear-Linear

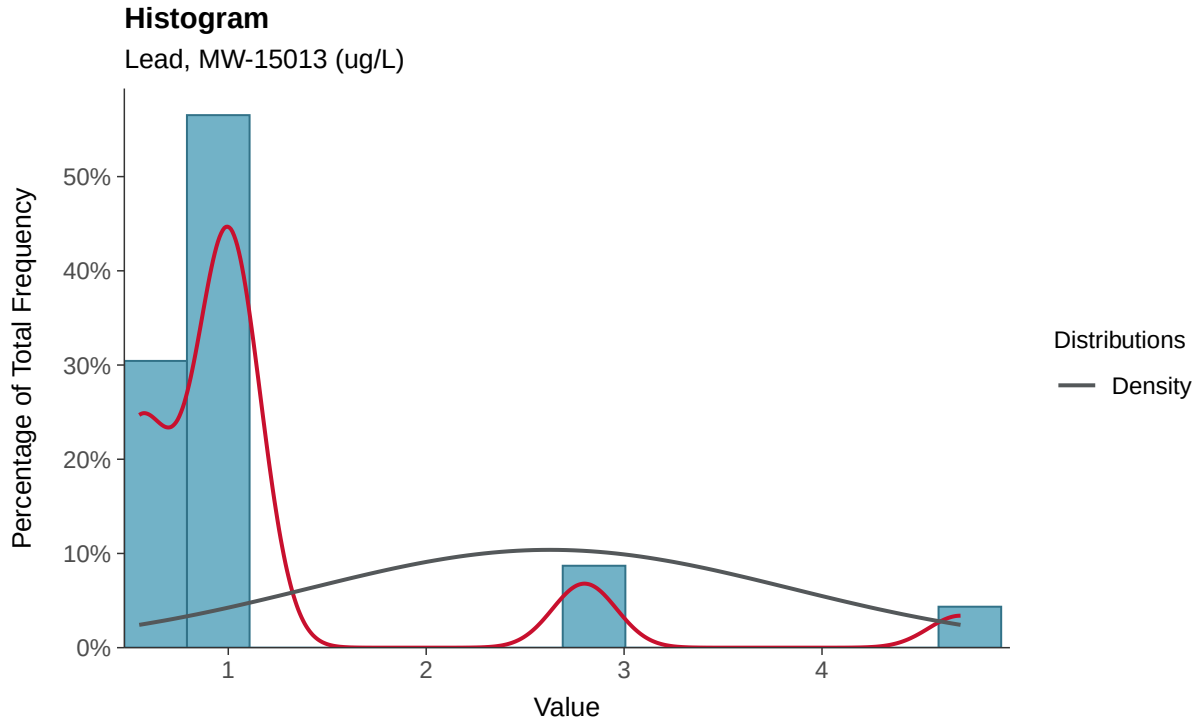
Fluoride, MW-15013 (ug/L)



Appendix IV: Lead, MW-15013

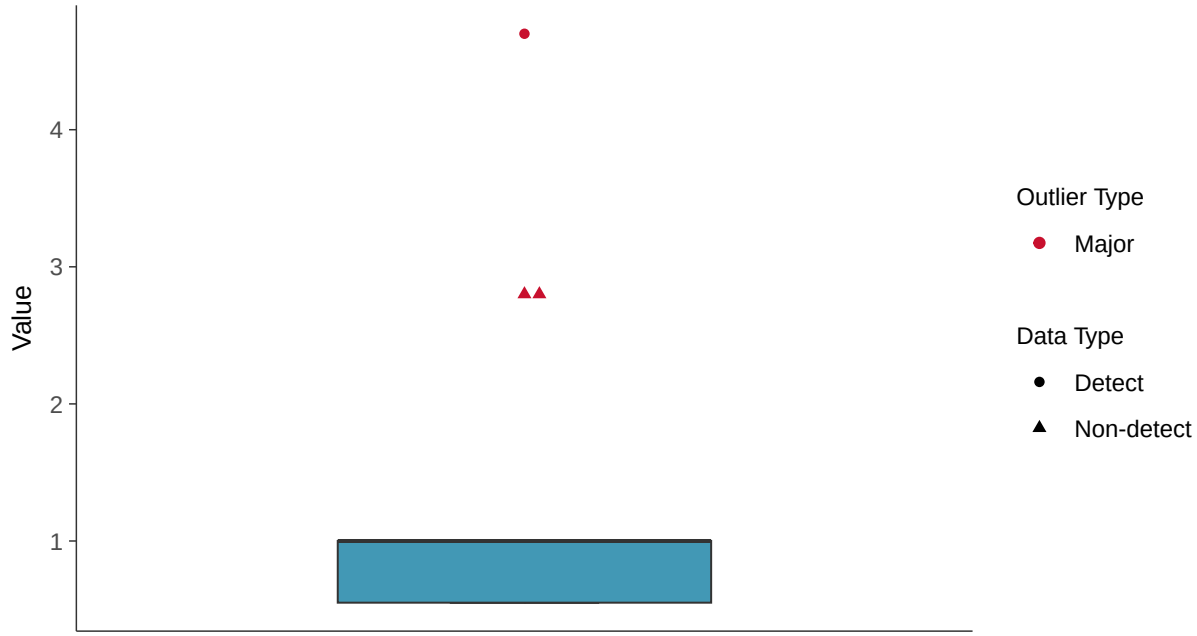
ID: 03_2_116





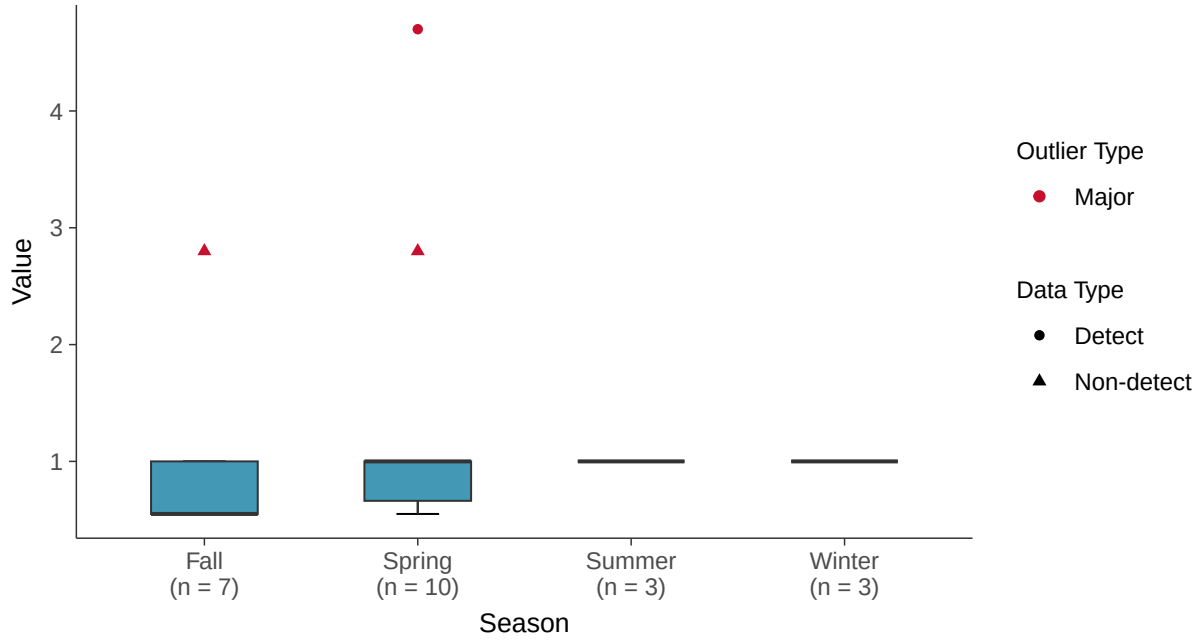
Boxplot

Lead, MW-15013 (ug/L)



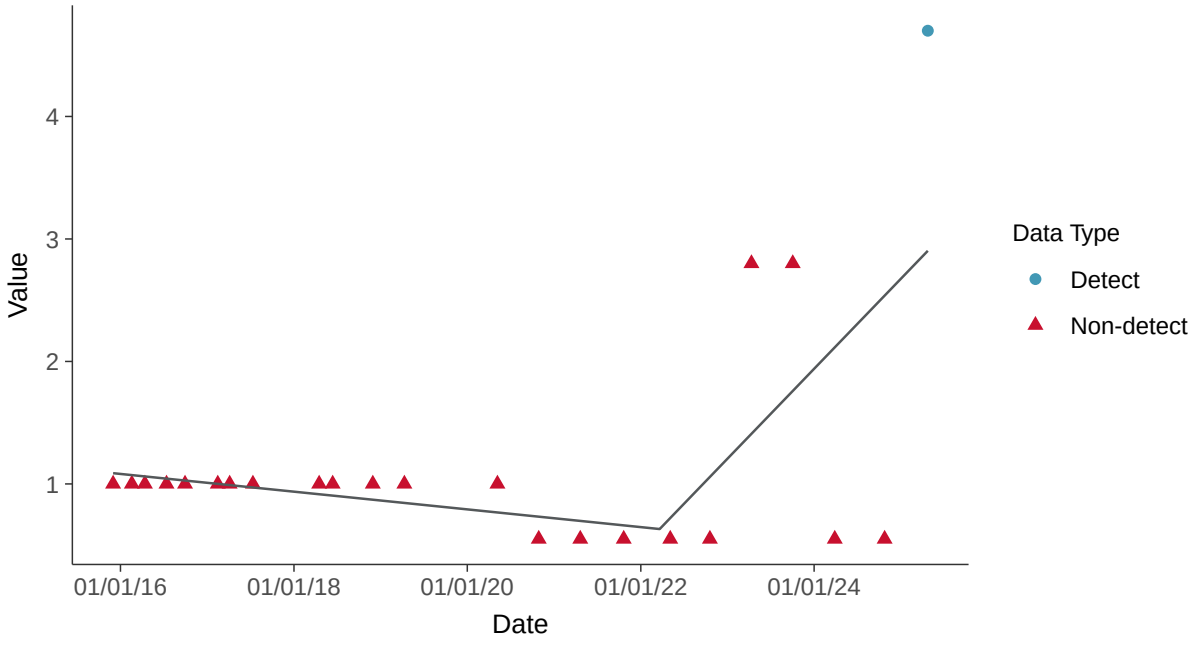
Boxplot by Season

Lead, MW-15013 (ug/L)



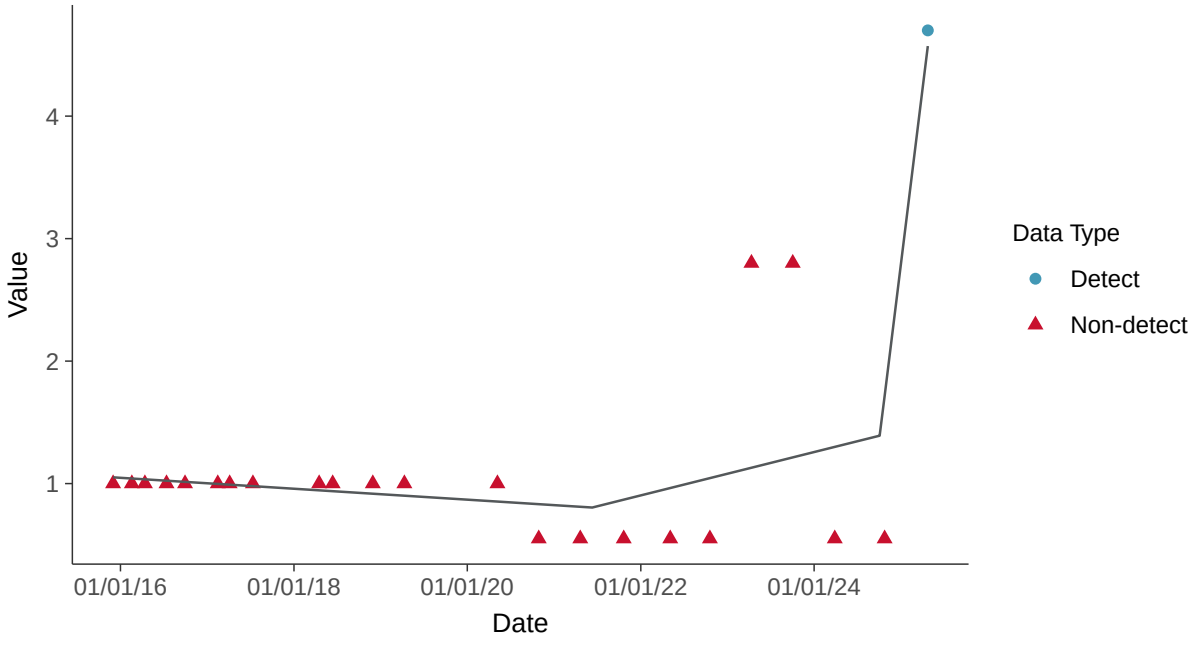
Trend Regression: Piecewise Linear-Linear

Lead, MW-15013 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-15013 (ug/L)

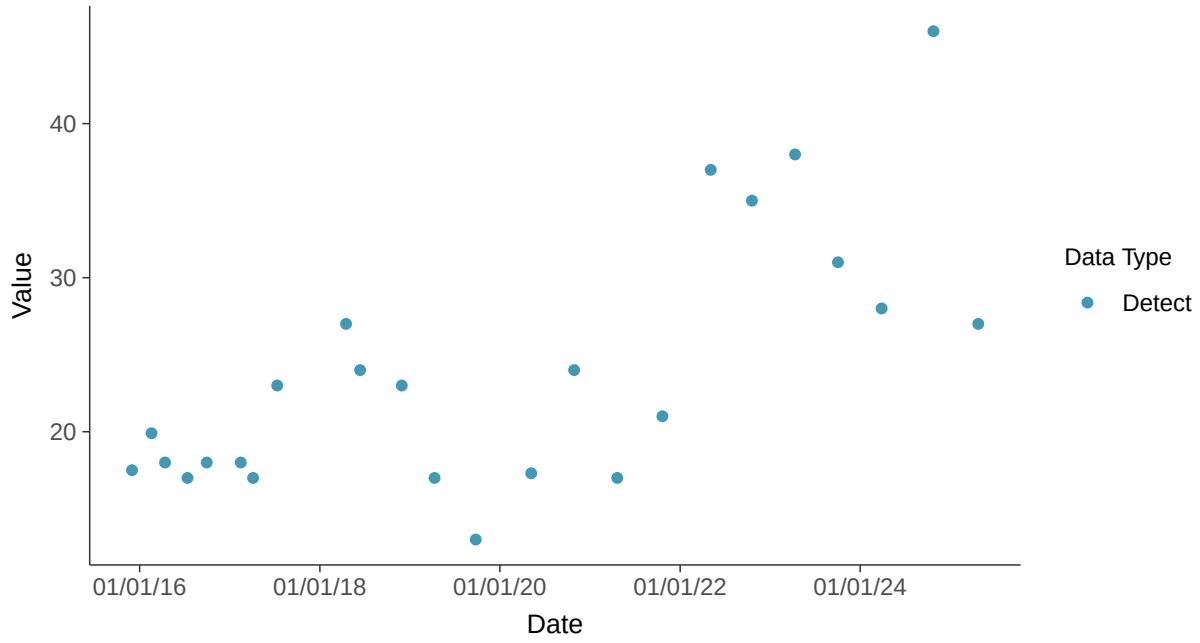


Appendix IV: Lithium, MW-15013

ID: 03_2_117

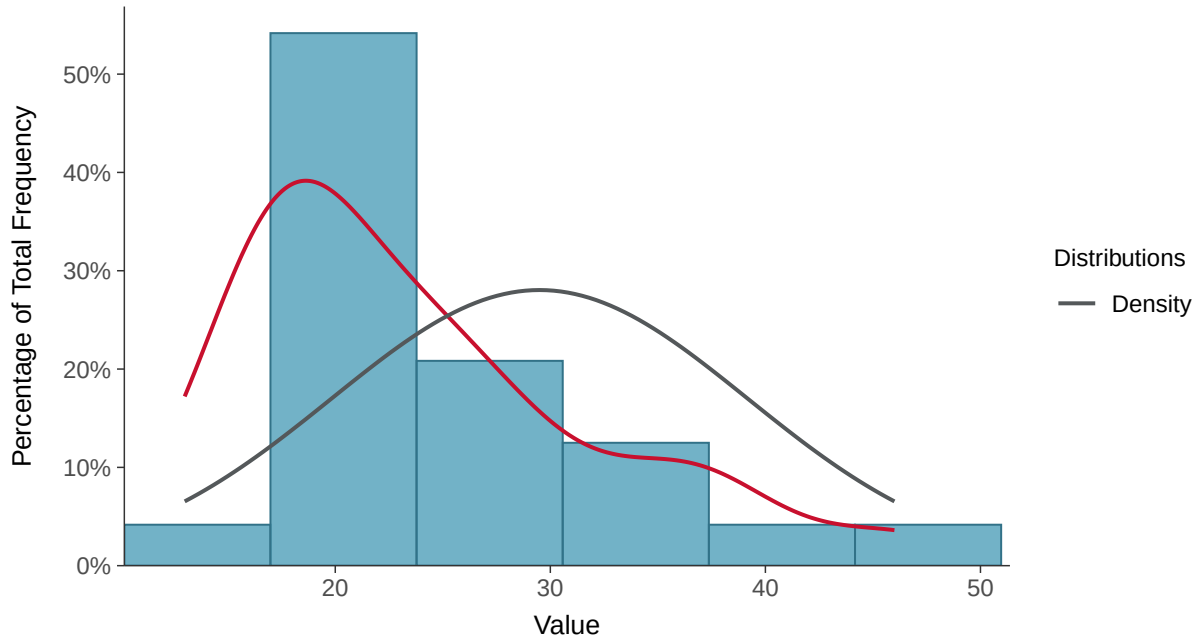
Scatter Plot

Lithium, MW-15013 (ug/L)



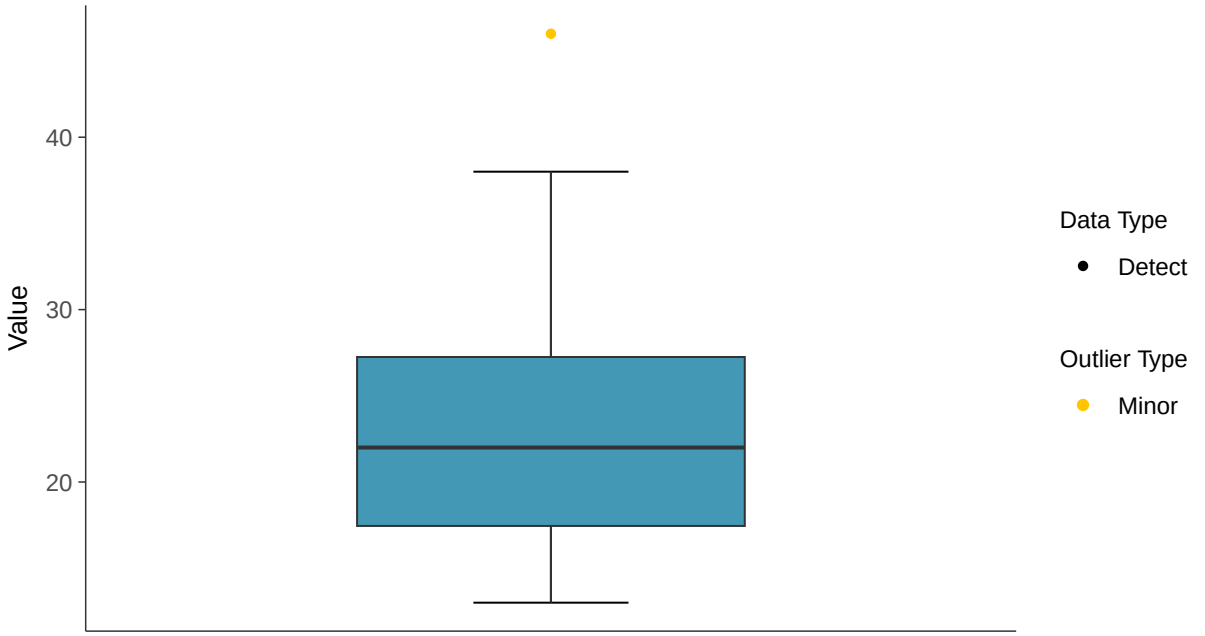
Histogram

Lithium, MW-15013 (ug/L)



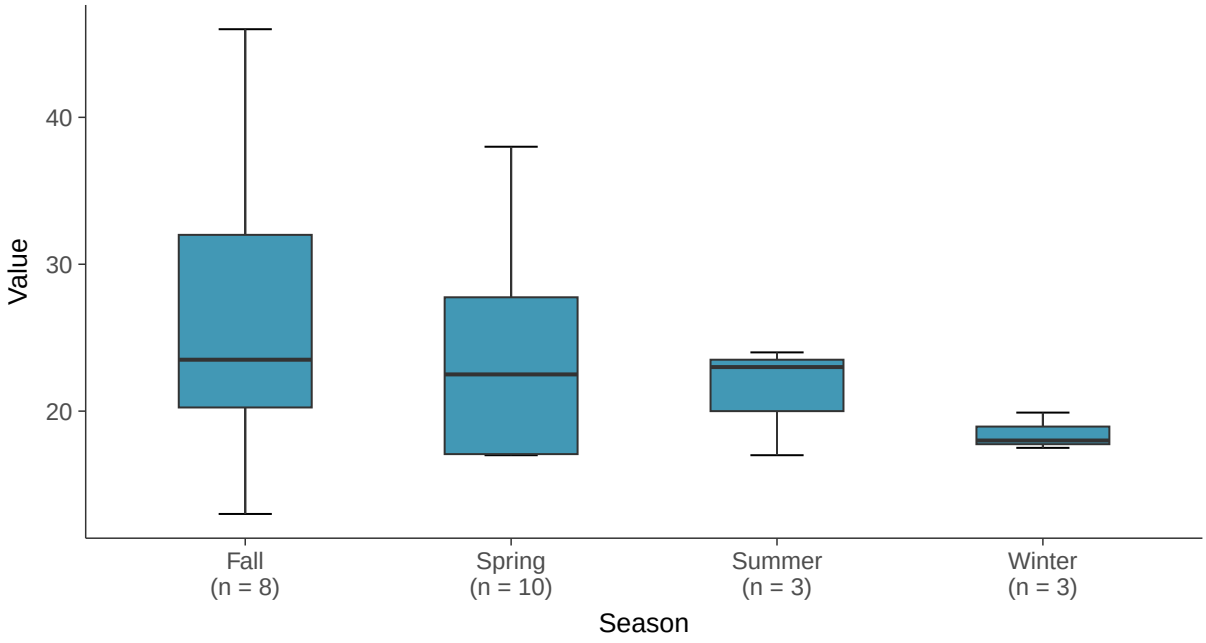
Boxplot

Lithium, MW-15013 (ug/L)



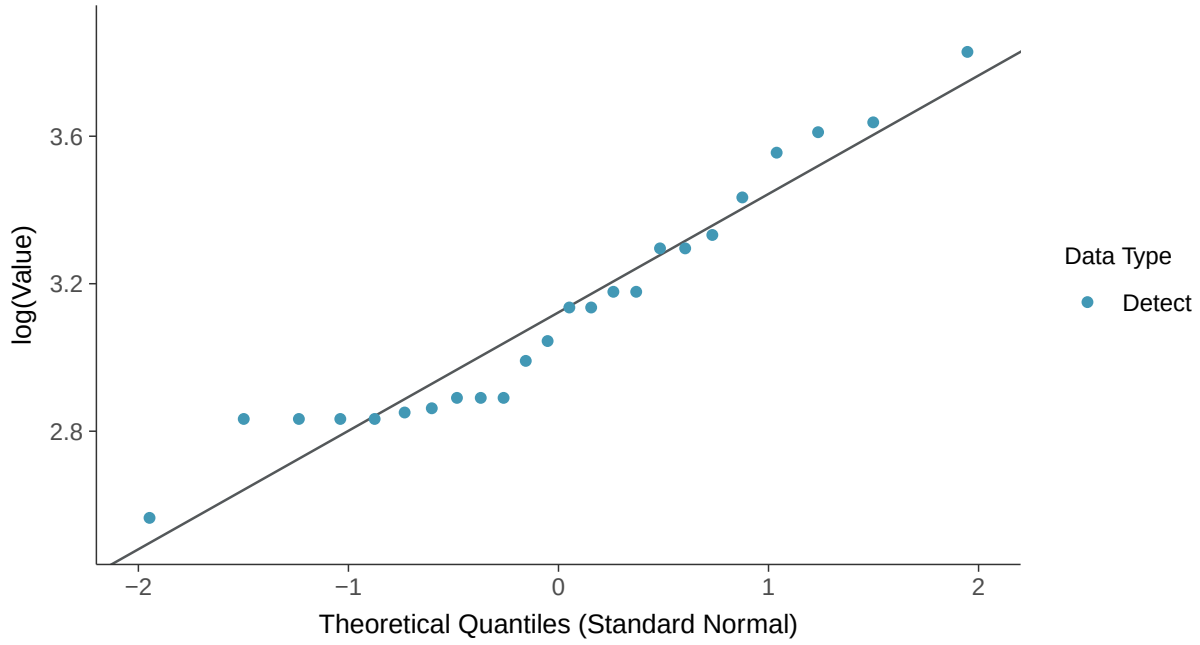
Boxplot by Season

Lithium, MW-15013 (ug/L)



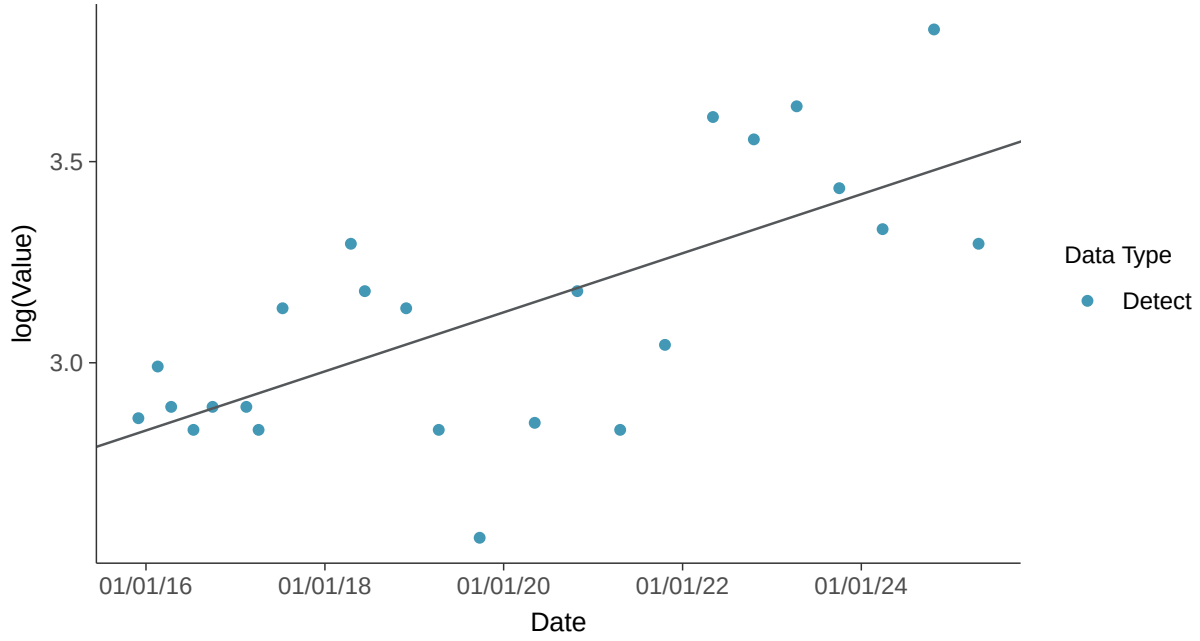
Lognormal Q-Q plot

Lithium, MW-15013 (ug/L)



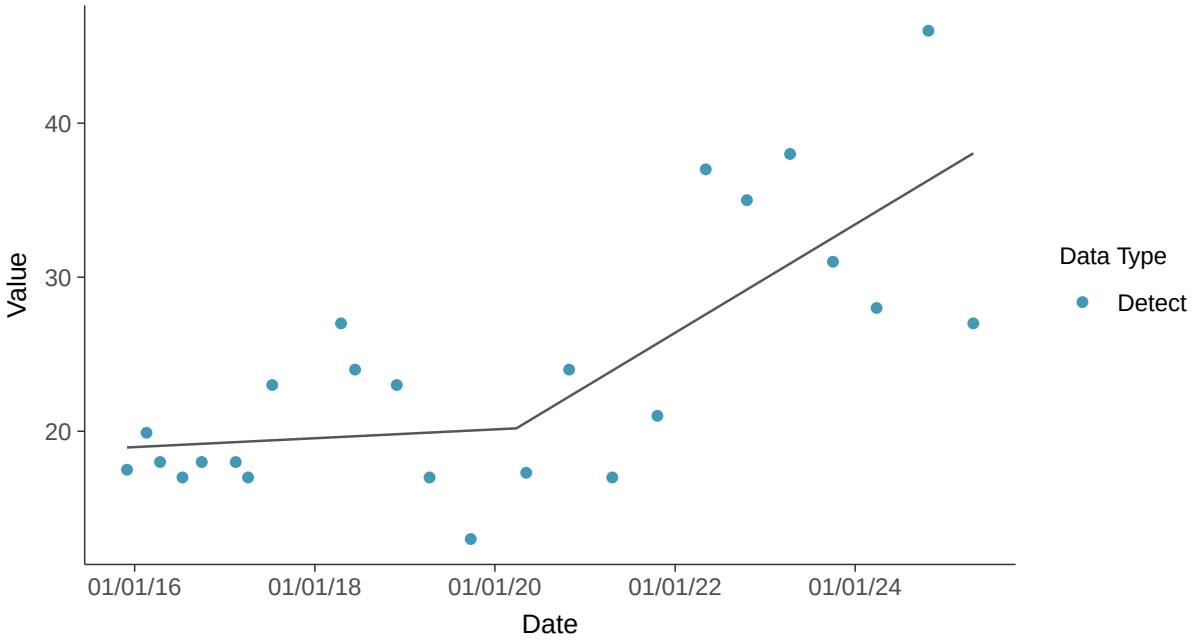
Trend Regression: Lognormal MLE

Lithium, MW-15013 (ug/L)



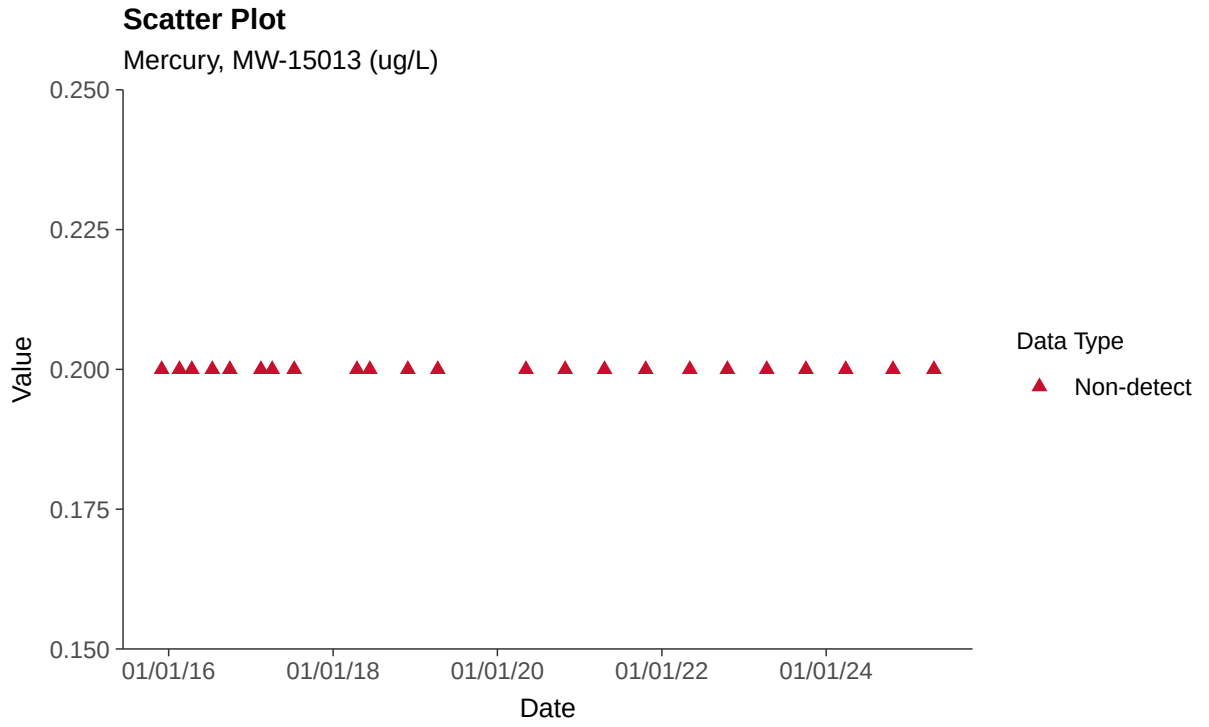
Trend Regression: Piecewise Linear-Linear

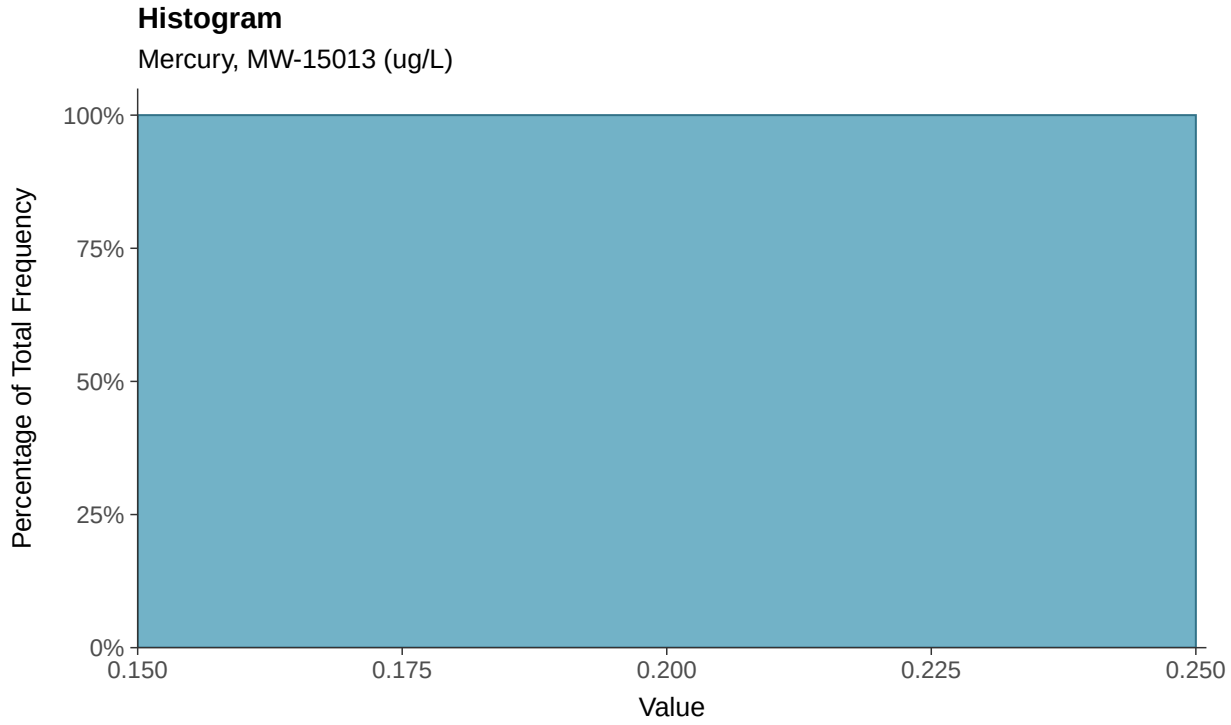
Lithium, MW-15013 (ug/L)



Appendix IV: Mercury, MW-15013

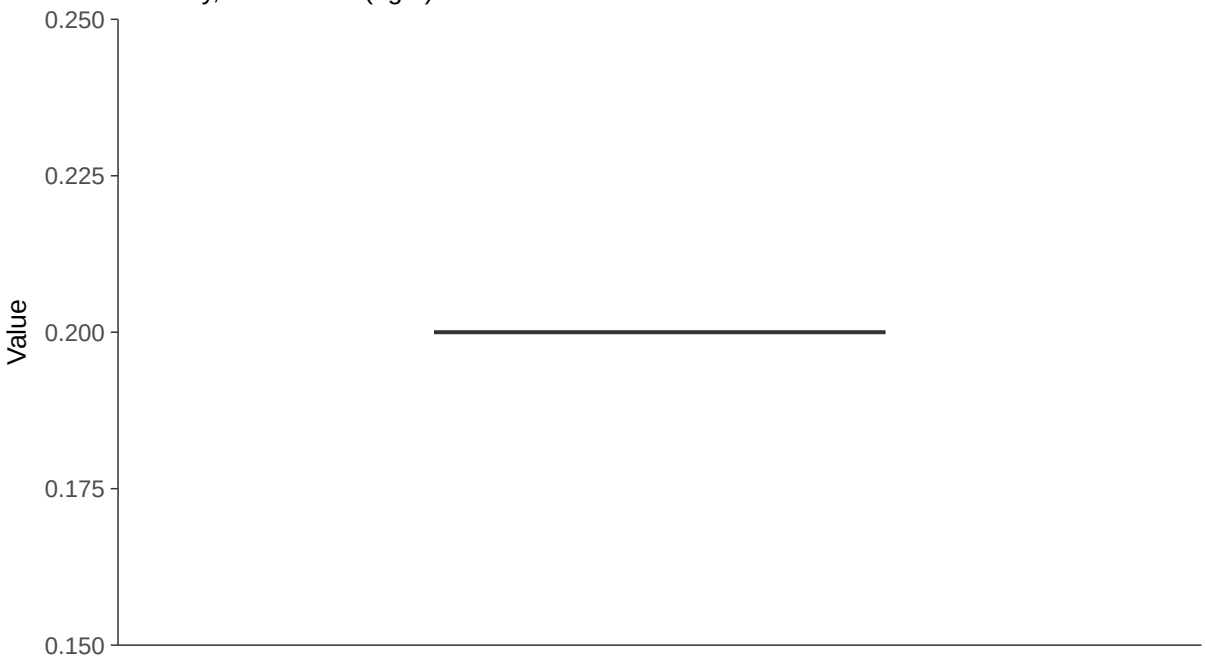
ID: 03_2_118





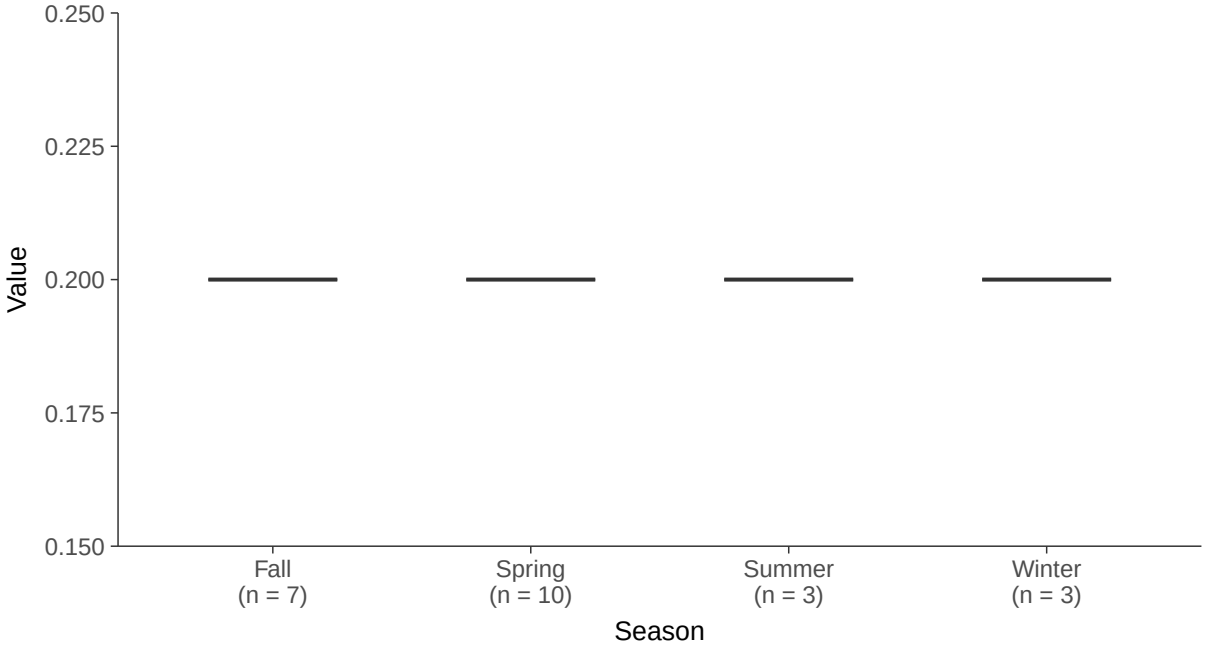
Boxplot

Mercury, MW-15013 (ug/L)



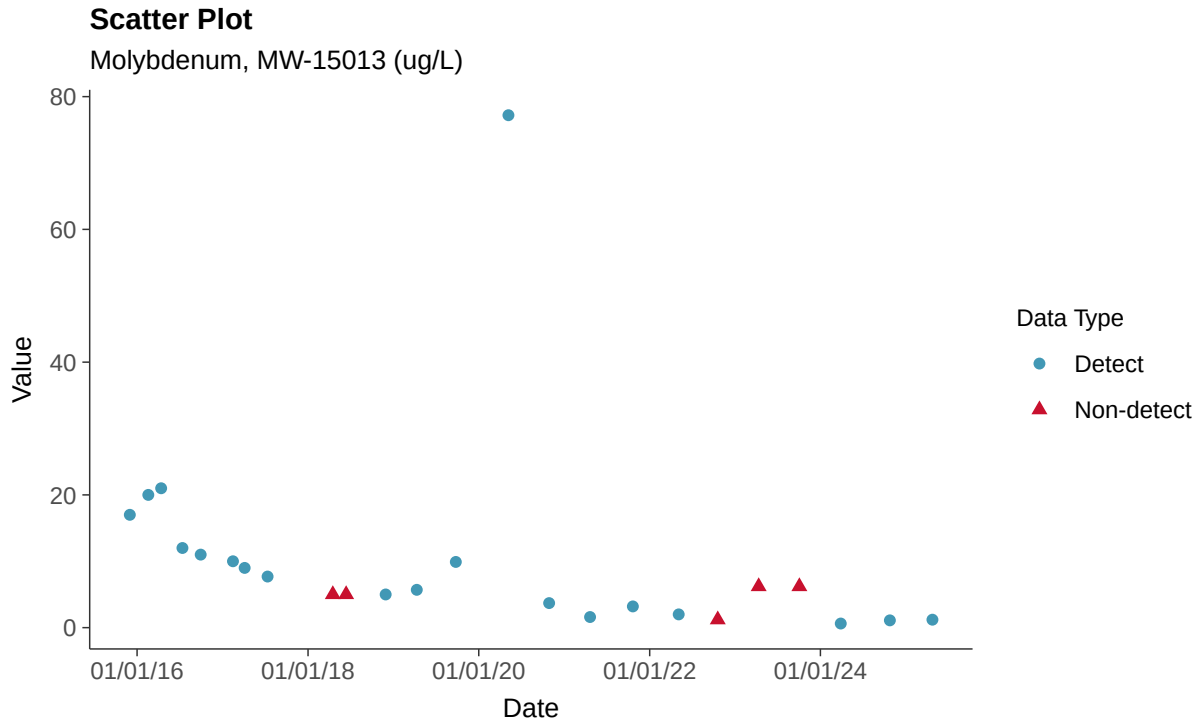
Boxplot by Season

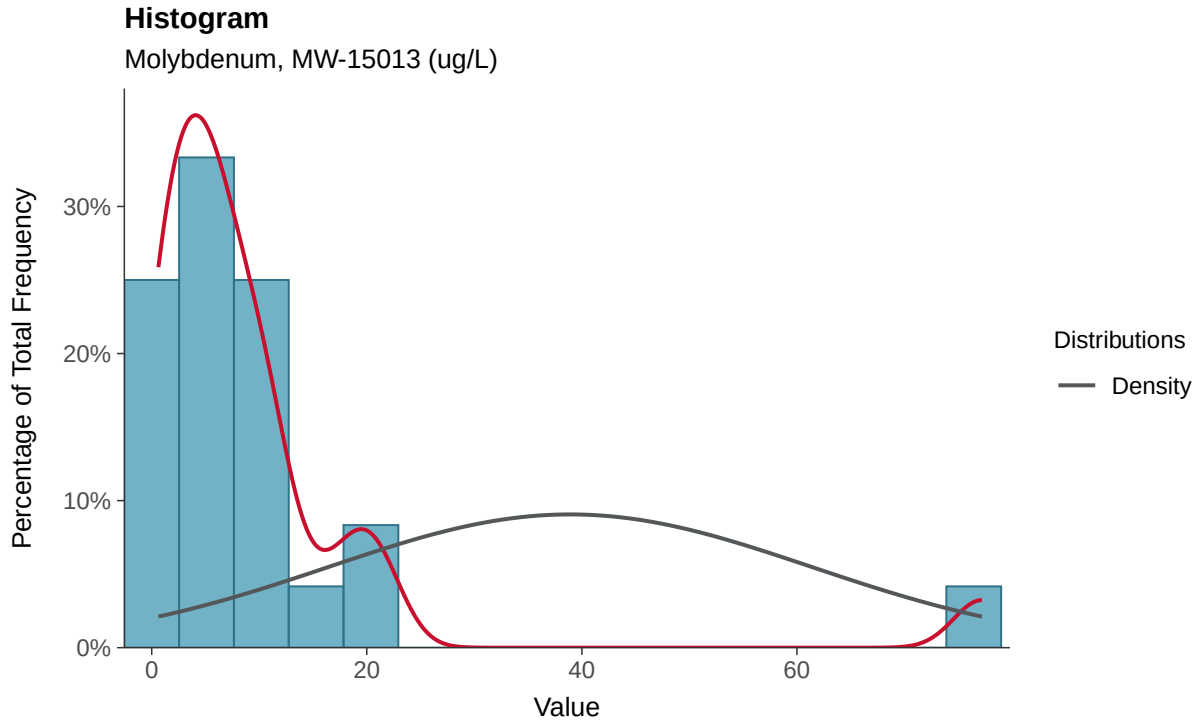
Mercury, MW-15013 (ug/L)



Appendix IV: Molybdenum, MW-15013

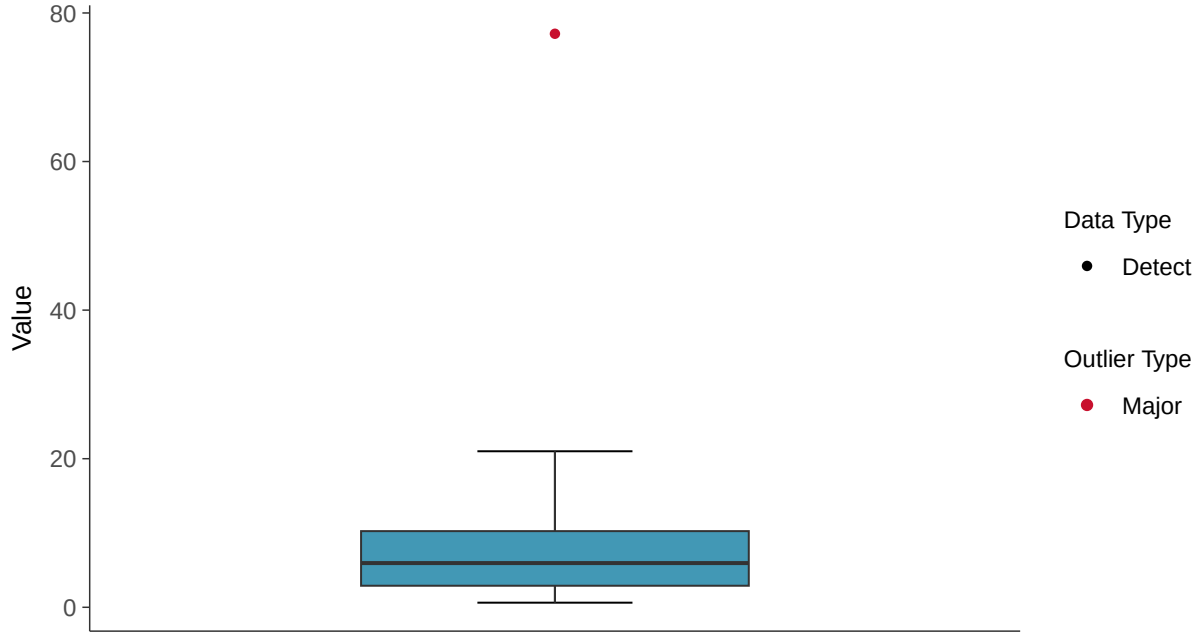
ID: 03_2_119





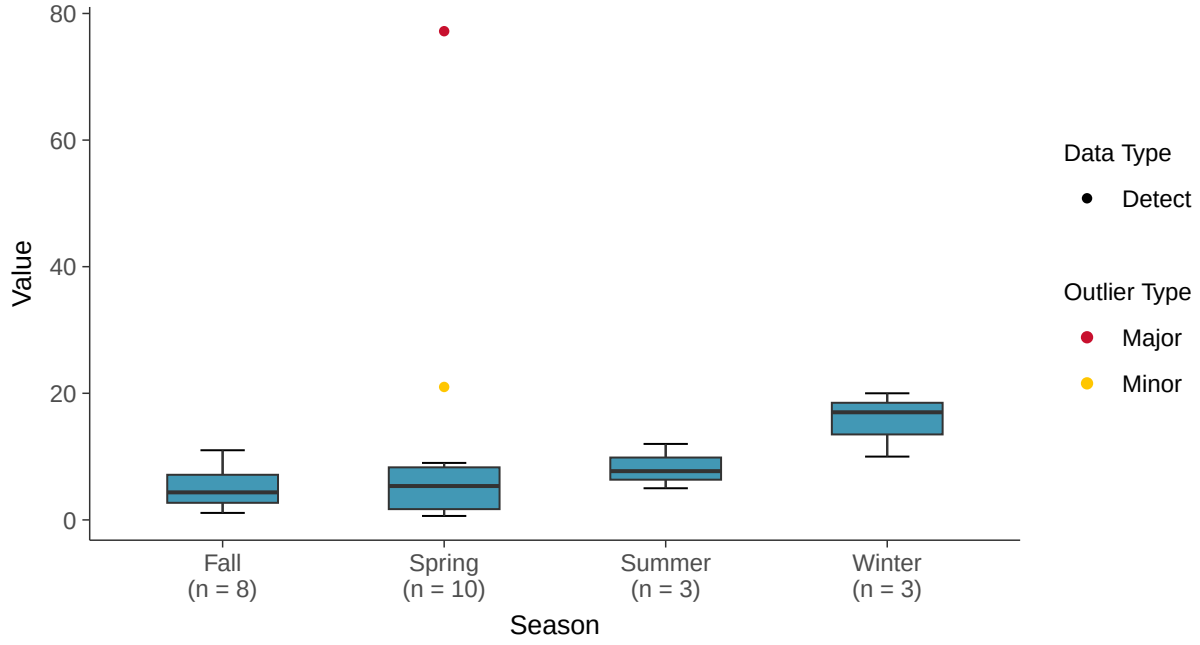
Boxplot

Molybdenum, MW-15013 (ug/L)



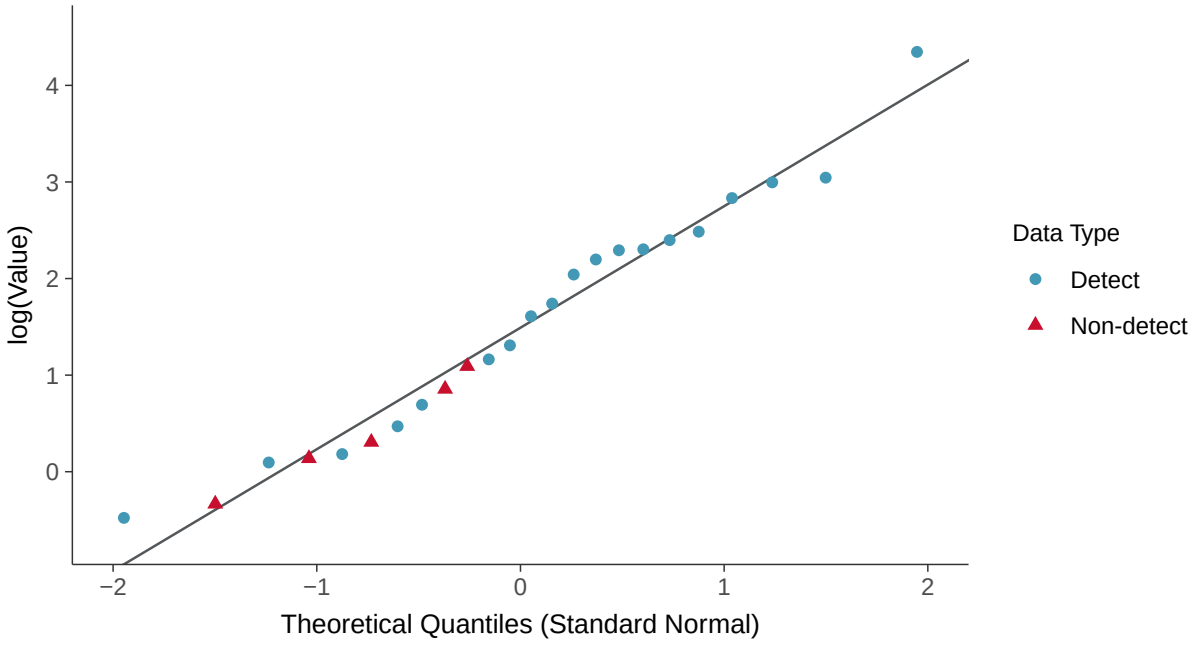
Boxplot by Season

Molybdenum, MW-15013 (ug/L)



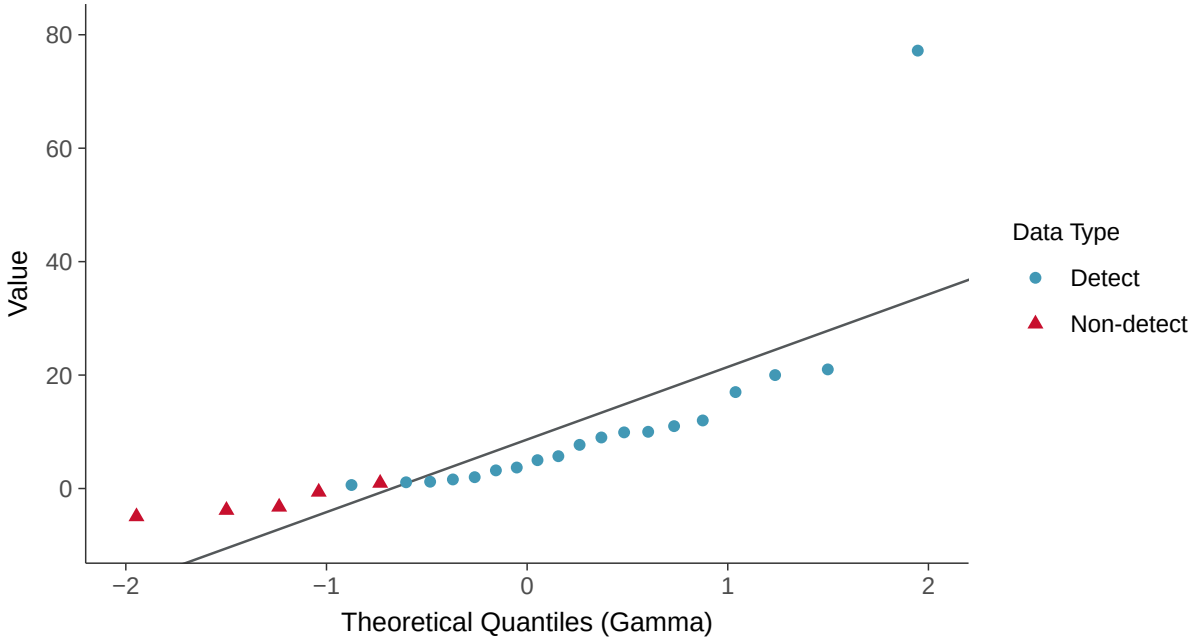
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15013 (ug/L)



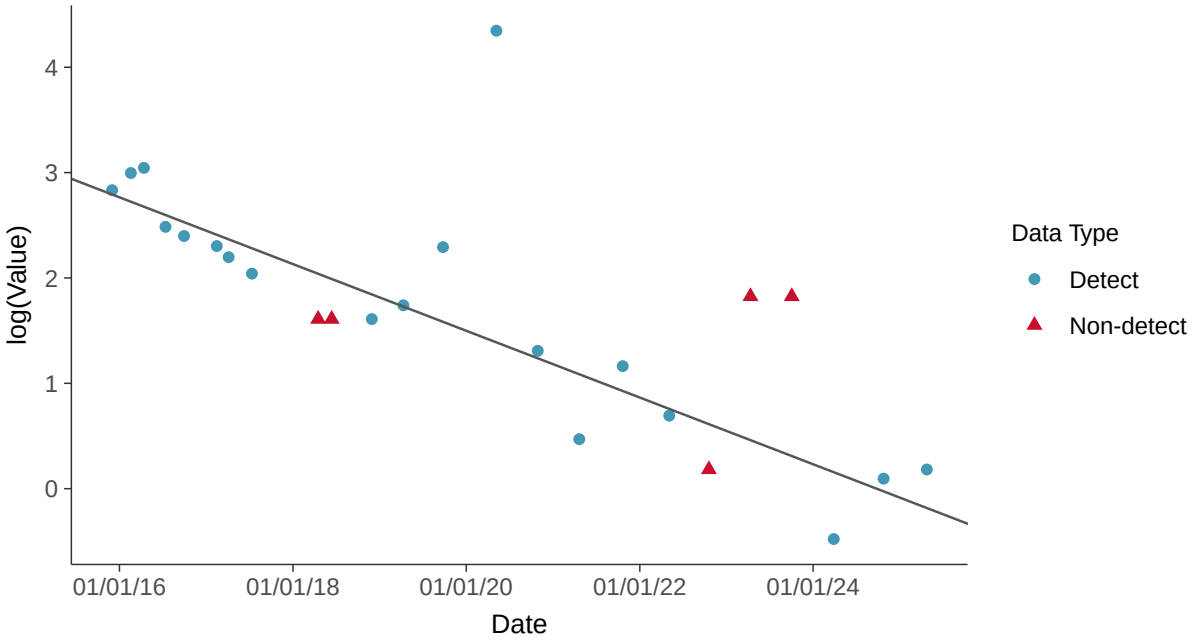
Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15013 (ug/L)



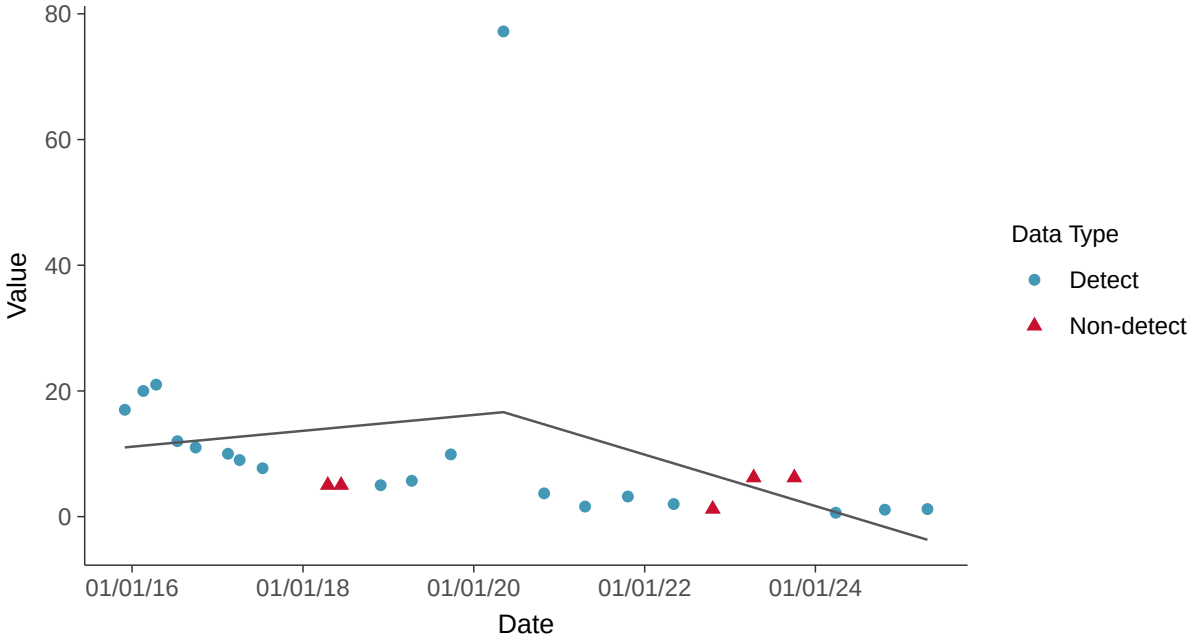
Trend Regression: Lognormal MLE

Molybdenum, MW-15013 (ug/L)



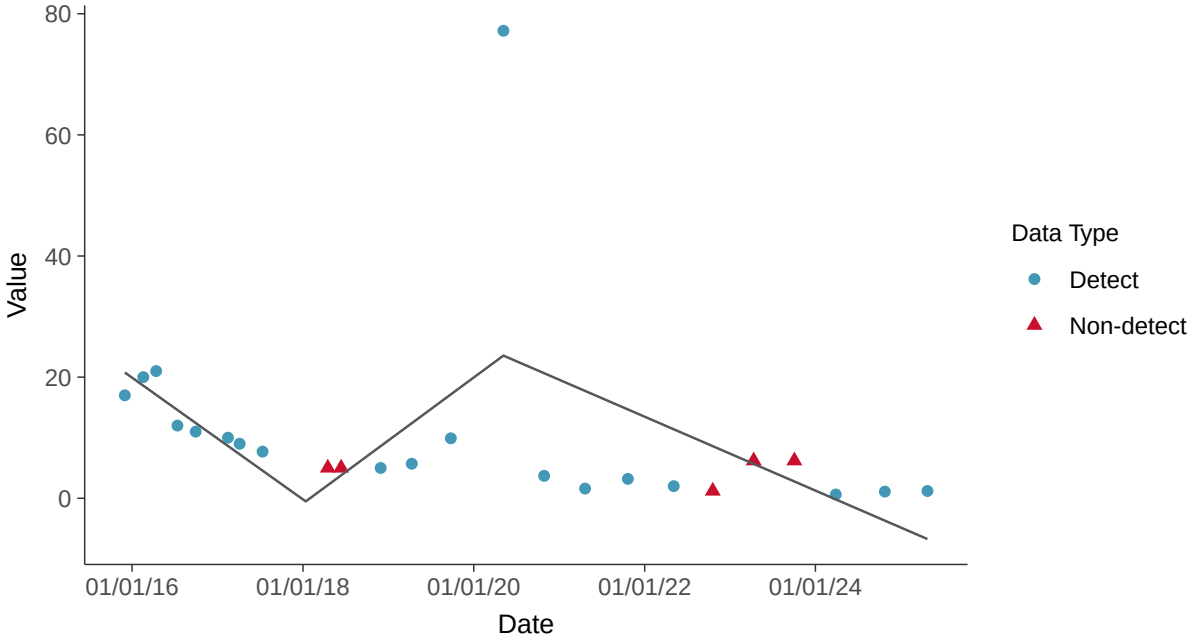
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-15013 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-15013 (ug/L)

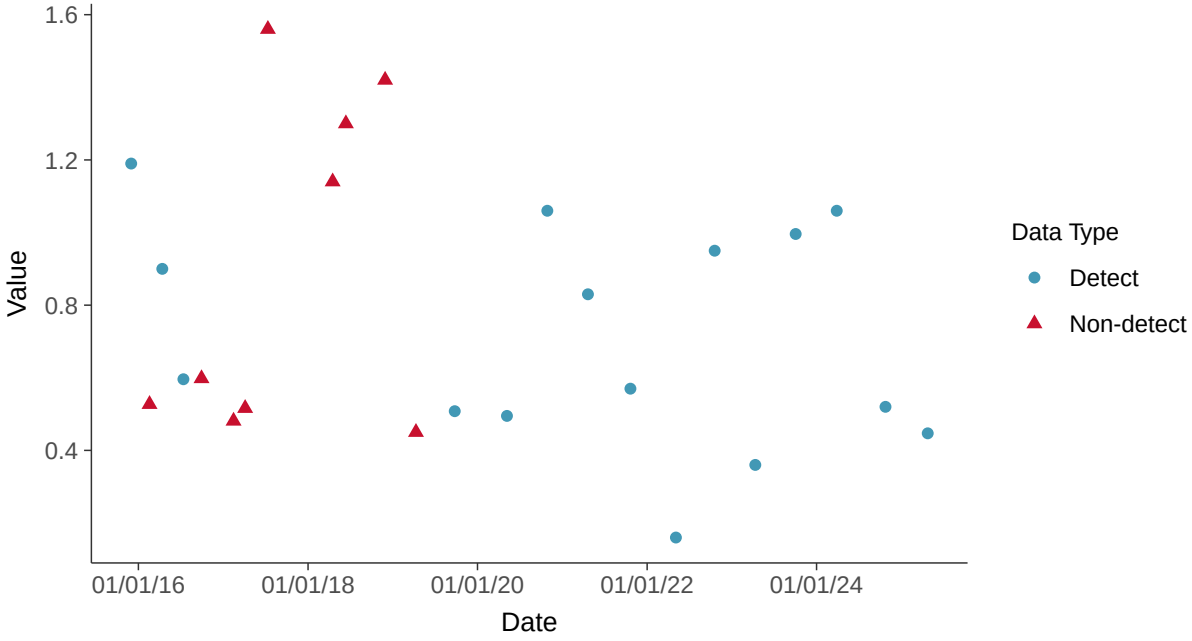


Appendix IV: Radium-226+228, MW-15013

ID: 03_2_125

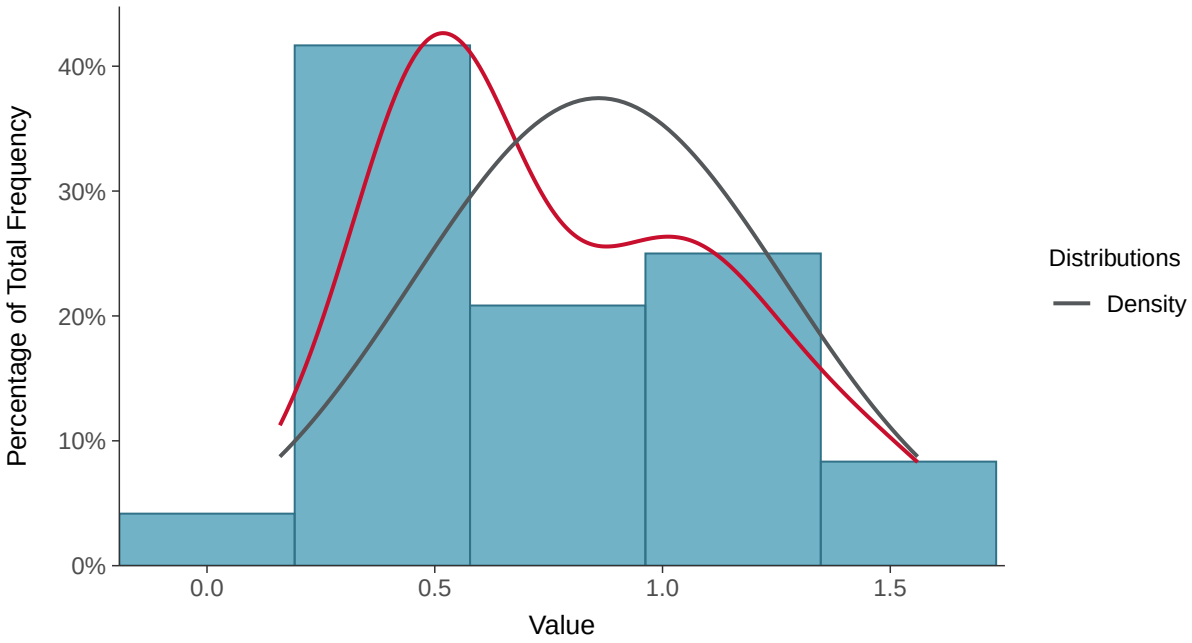
Scatter Plot

Radium-226+228, MW-15013 (pCi/L)



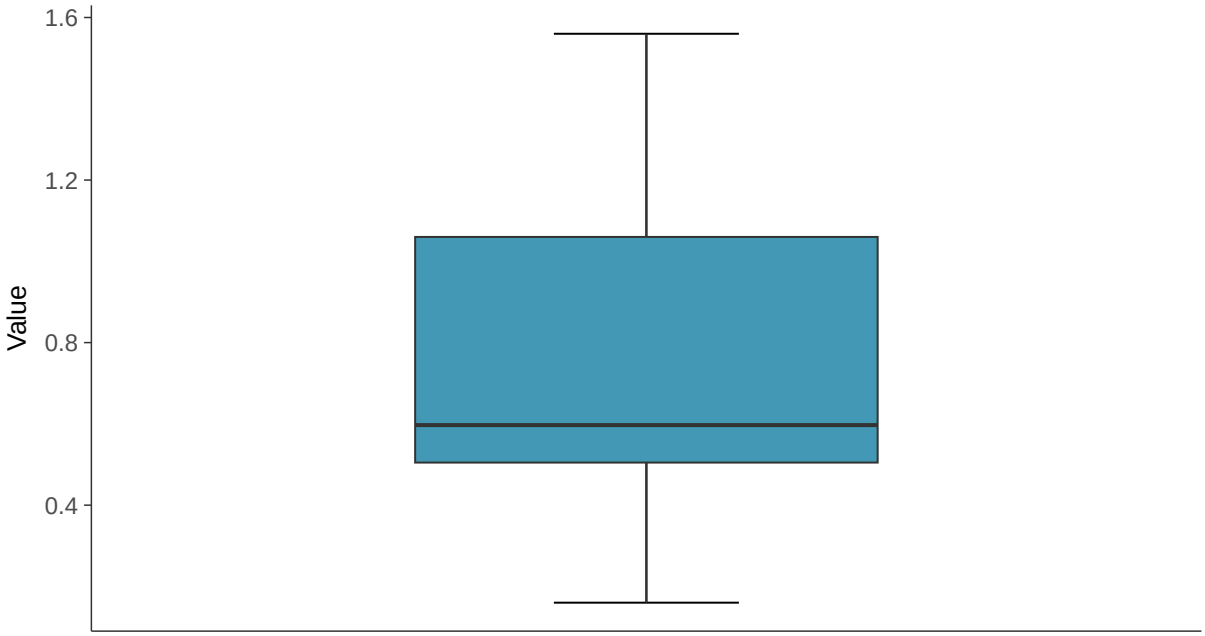
Histogram

Radium-226+228, MW-15013 (pCi/L)



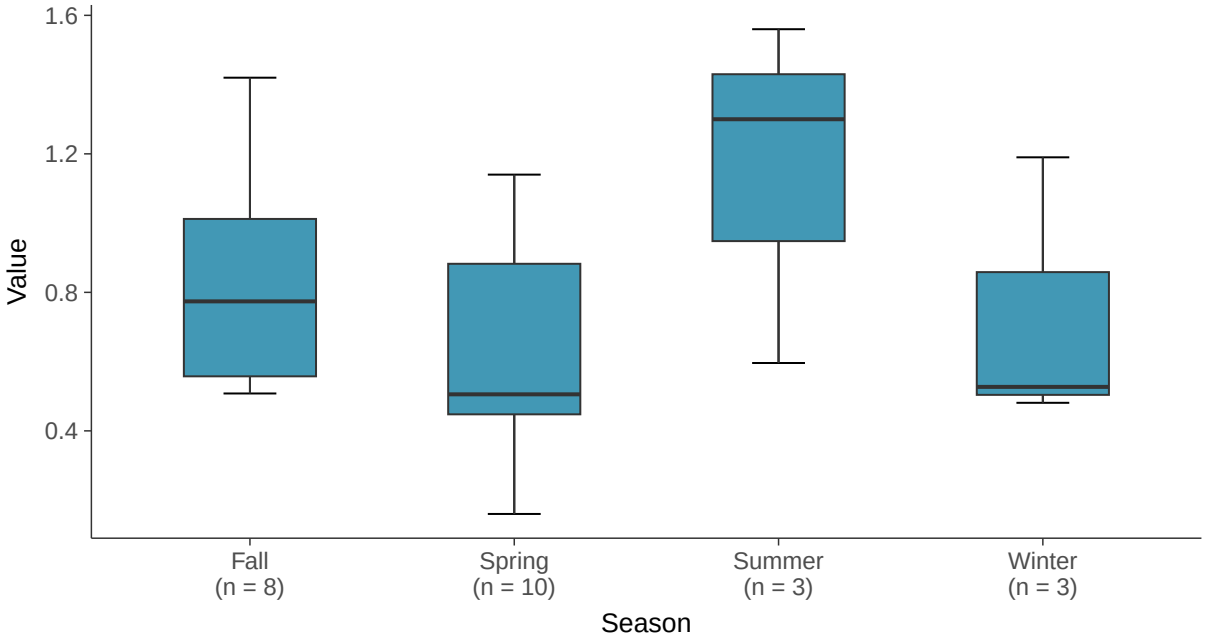
Boxplot

Radium-226+228, MW-15013 (pCi/L)



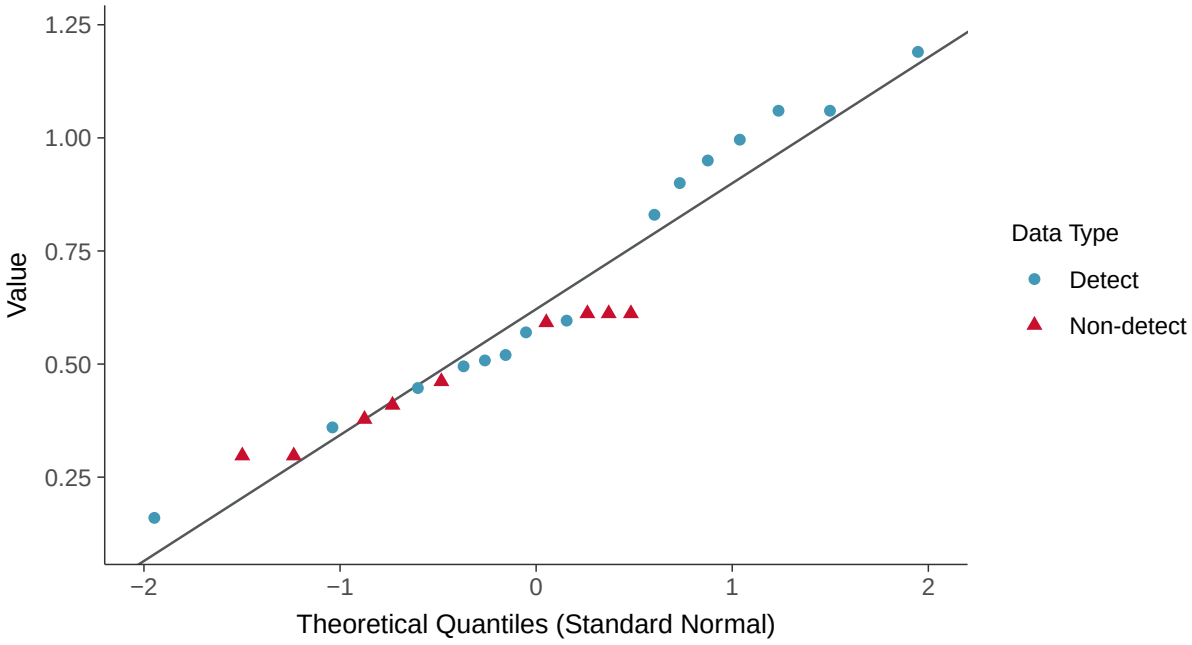
Boxplot by Season

Radium-226+228, MW-15013 (pCi/L)



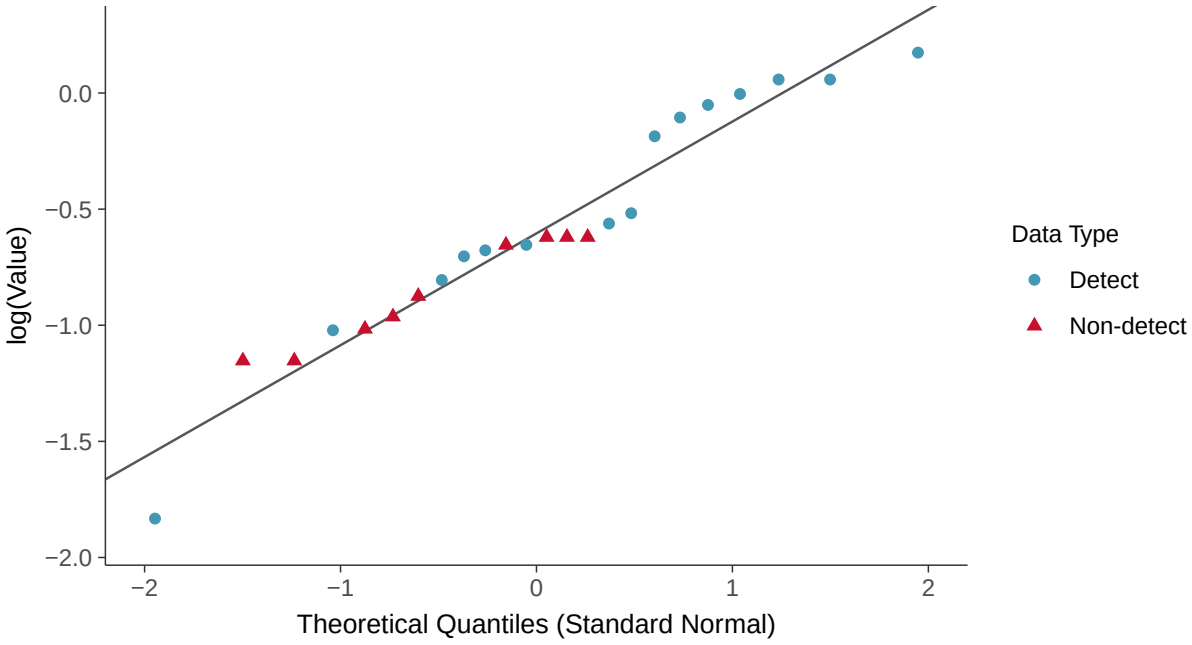
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15013 (pCi/L)



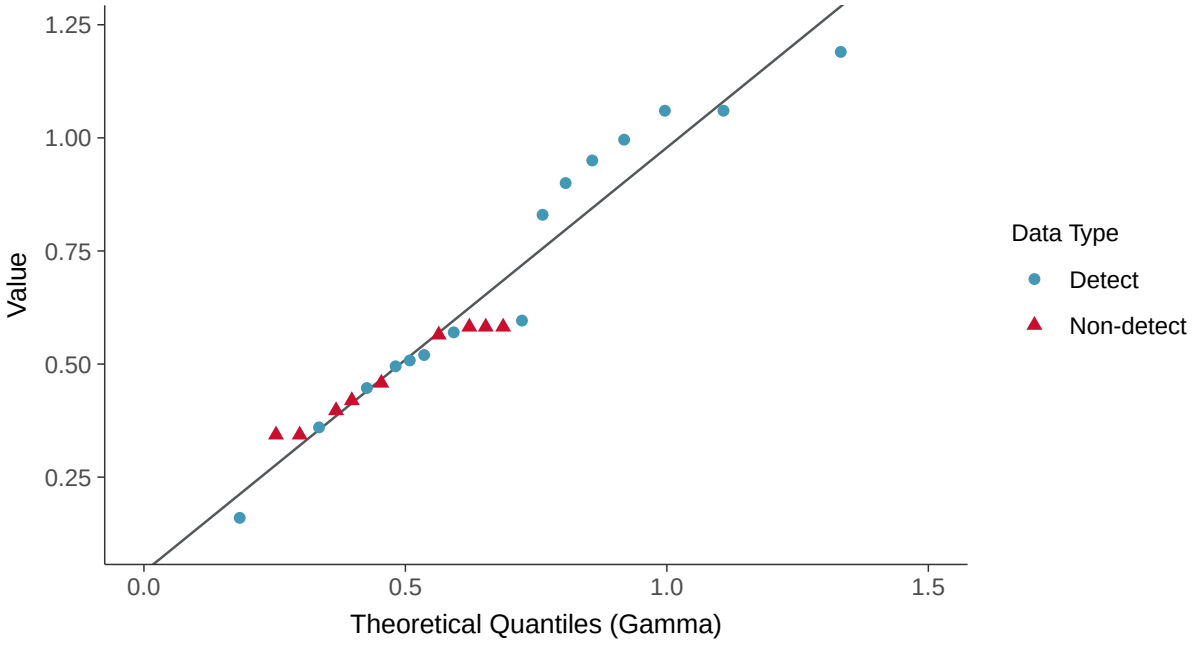
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15013 (pCi/L)



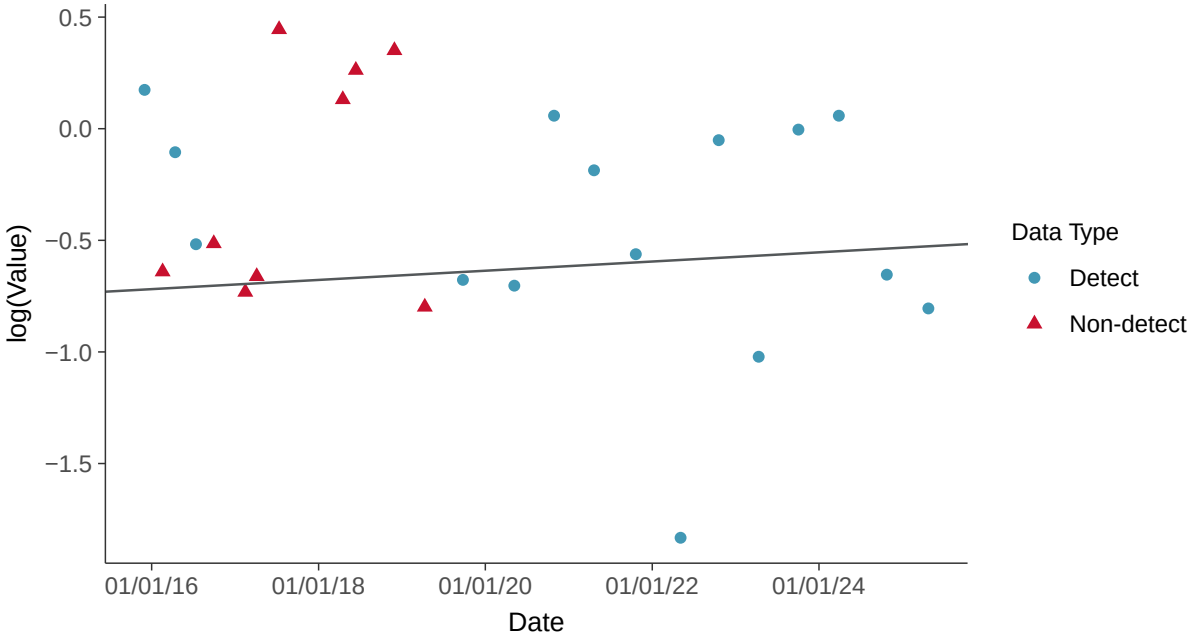
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15013 (pCi/L)



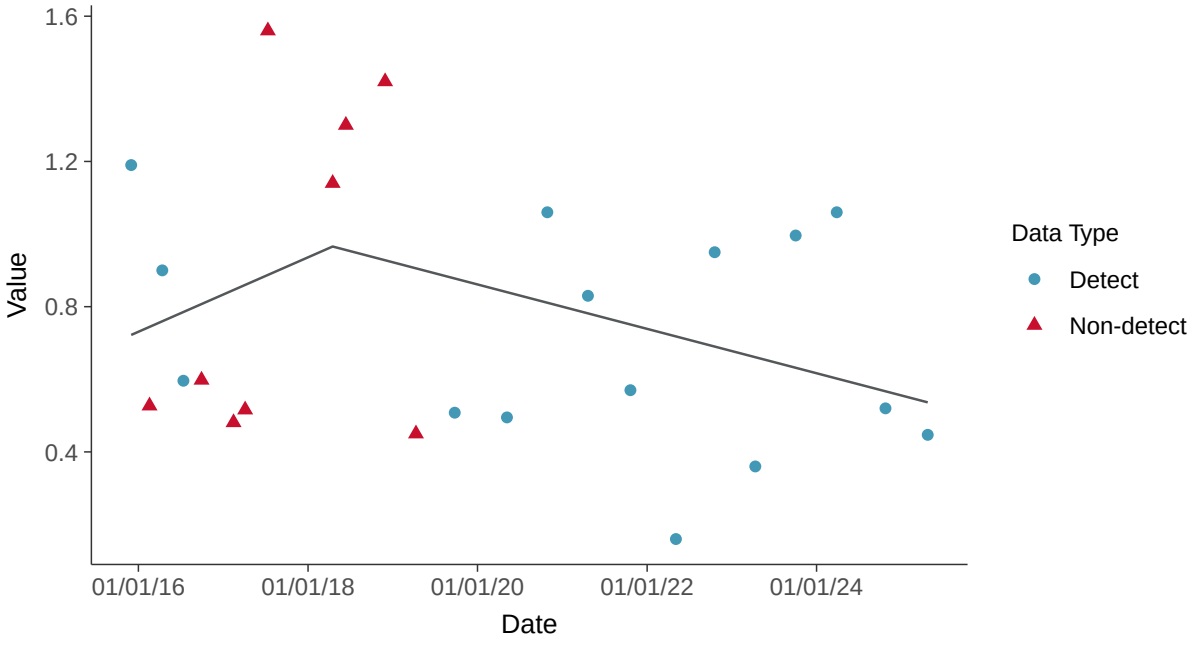
Trend Regression: Lognormal MLE

Radium-226+228, MW-15013 (pCi/L)



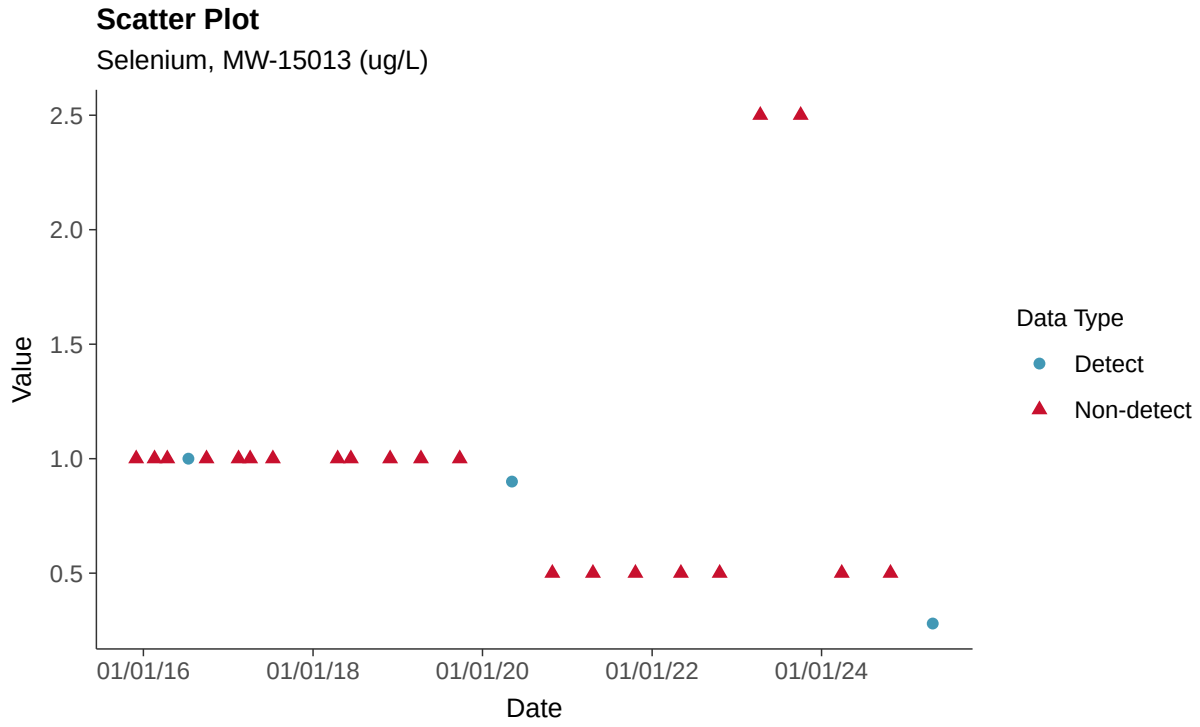
Trend Regression: Piecewise Linear-Linear

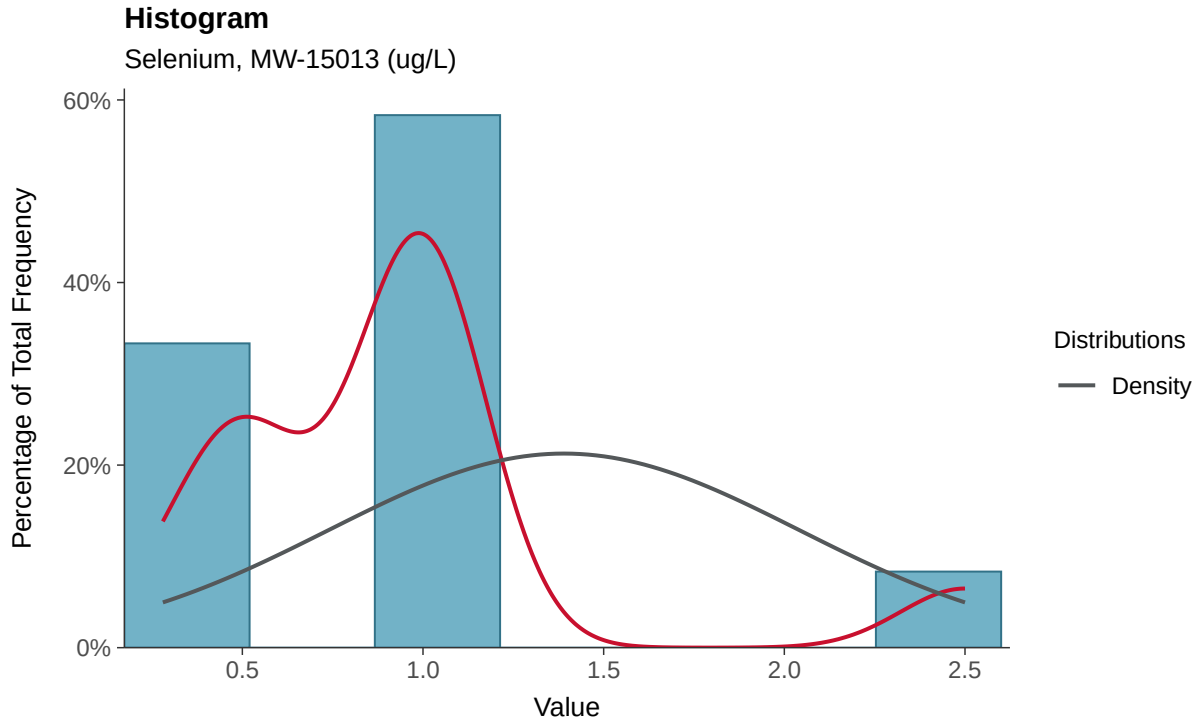
Radium-226+228, MW-15013 (pCi/L)



Appendix IV: Selenium, MW-15013

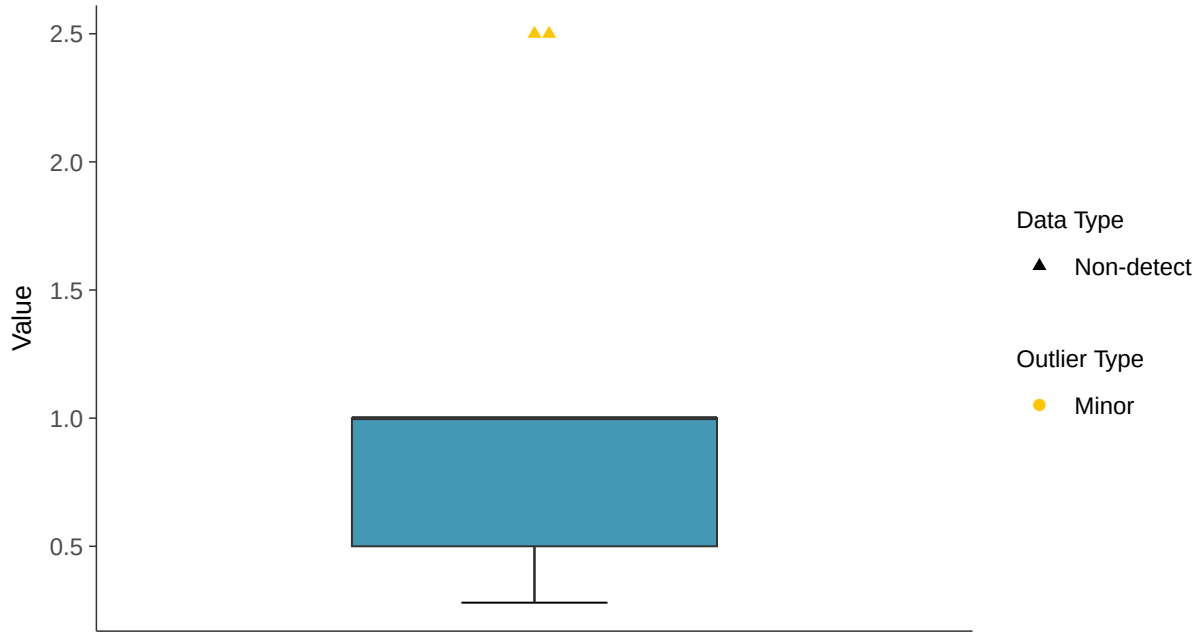
ID: 03_2_127





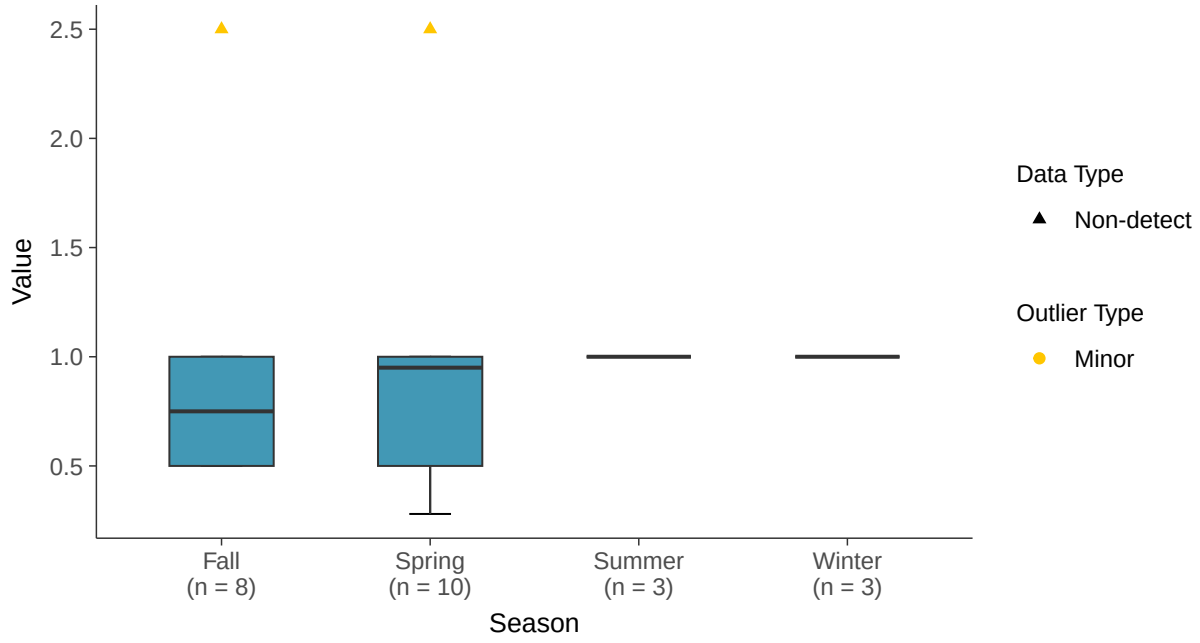
Boxplot

Selenium, MW-15013 (ug/L)



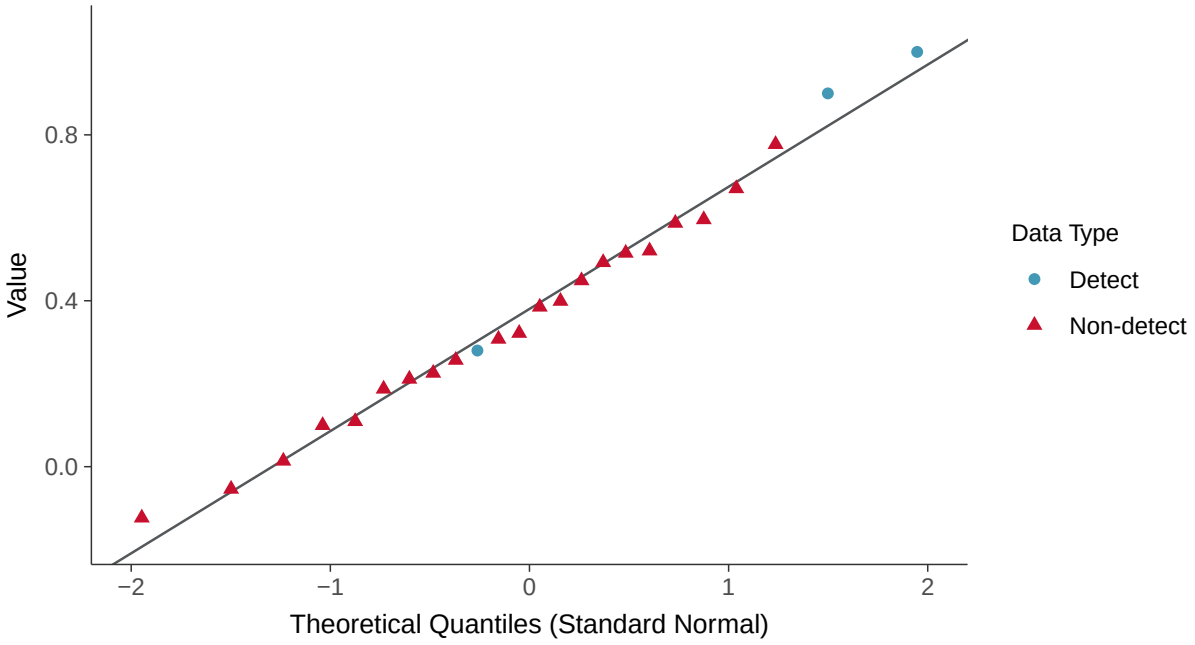
Boxplot by Season

Selenium, MW-15013 (ug/L)



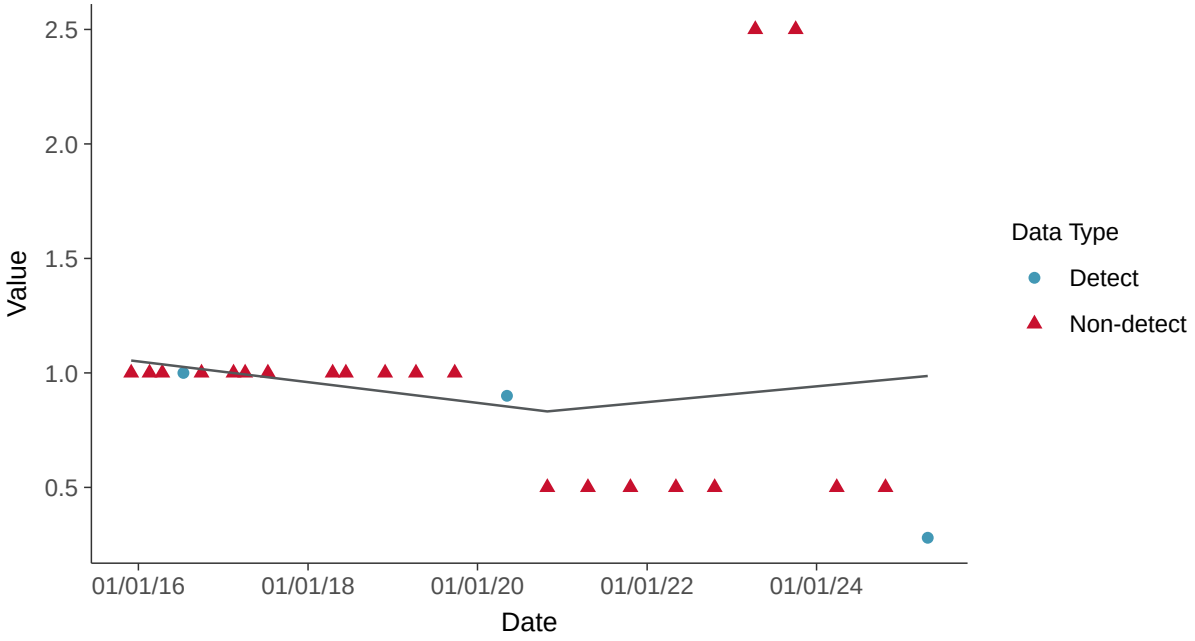
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-15013 (ug/L)



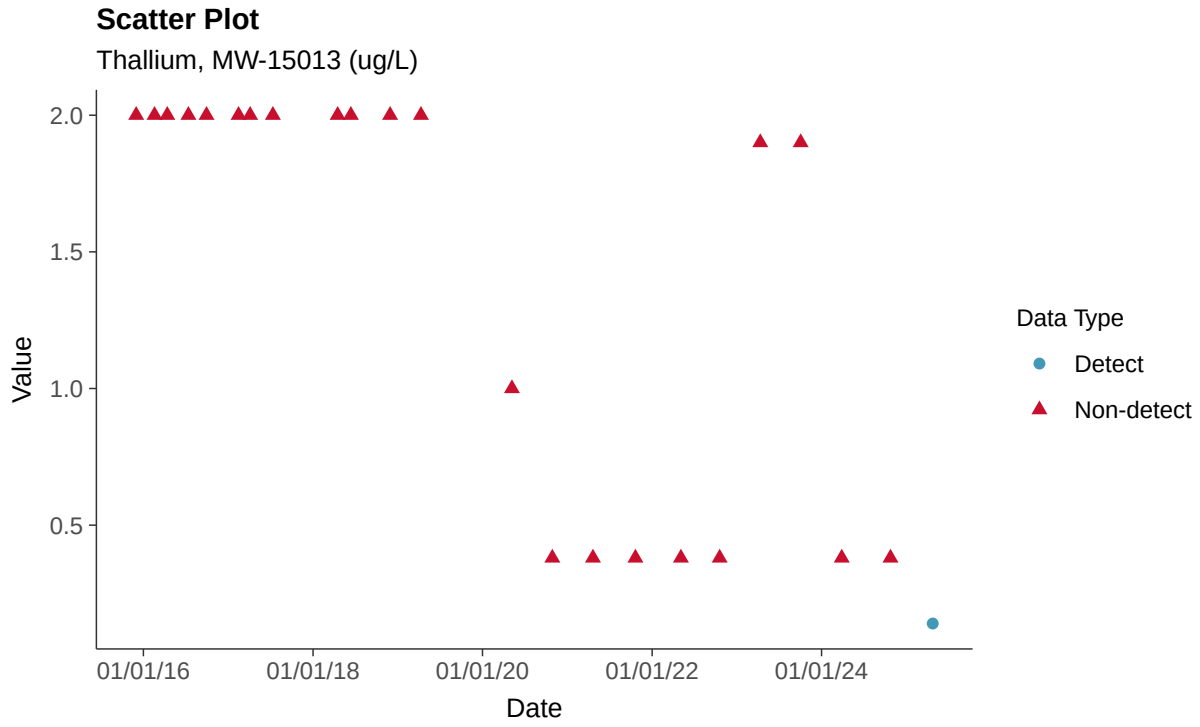
Trend Regression: Piecewise Linear-Linear

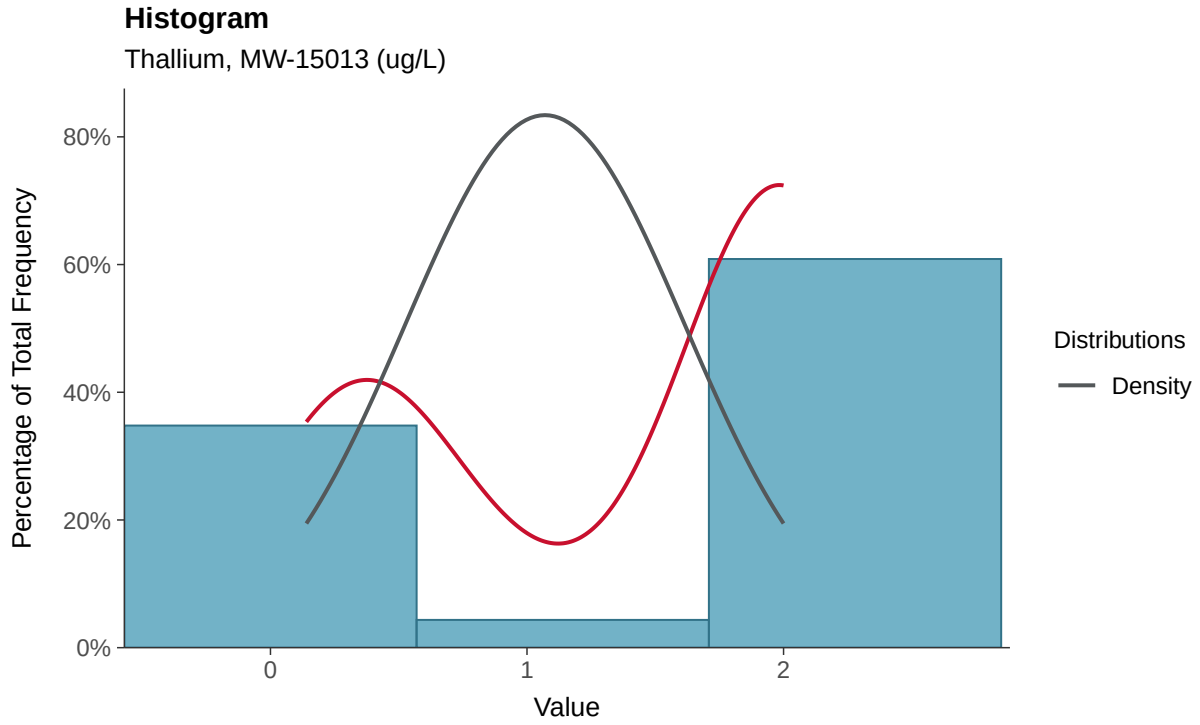
Selenium, MW-15013 (ug/L)



Appendix IV: Thallium, MW-15013

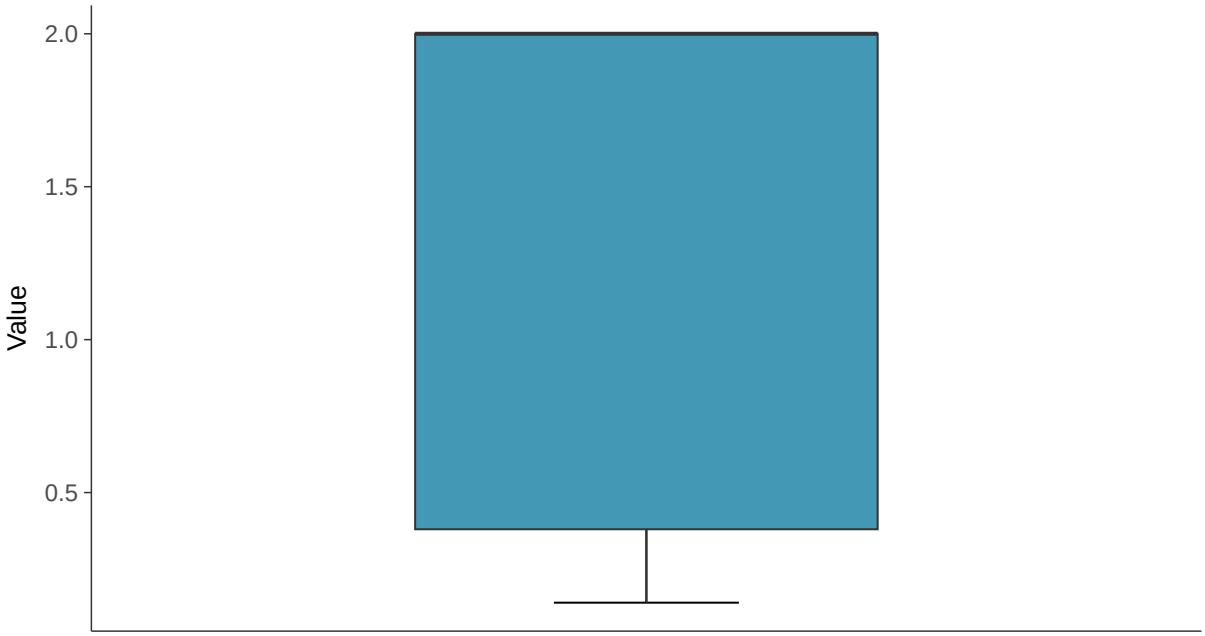
ID: 03_2_131





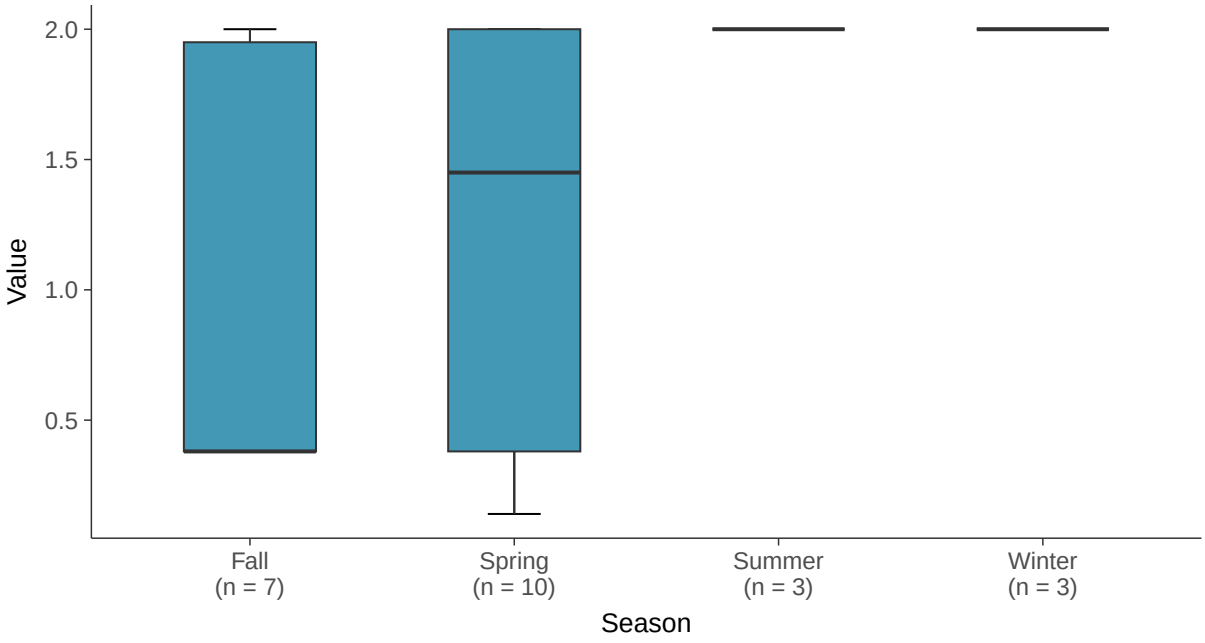
Boxplot

Thallium, MW-15013 (ug/L)



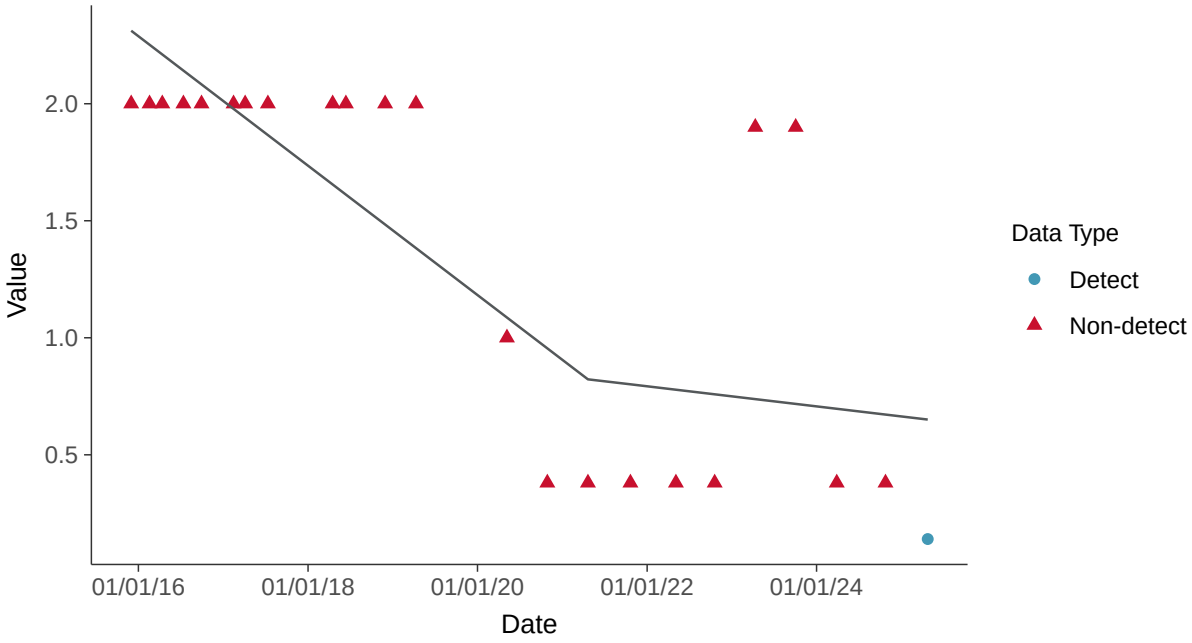
Boxplot by Season

Thallium, MW-15013 (ug/L)



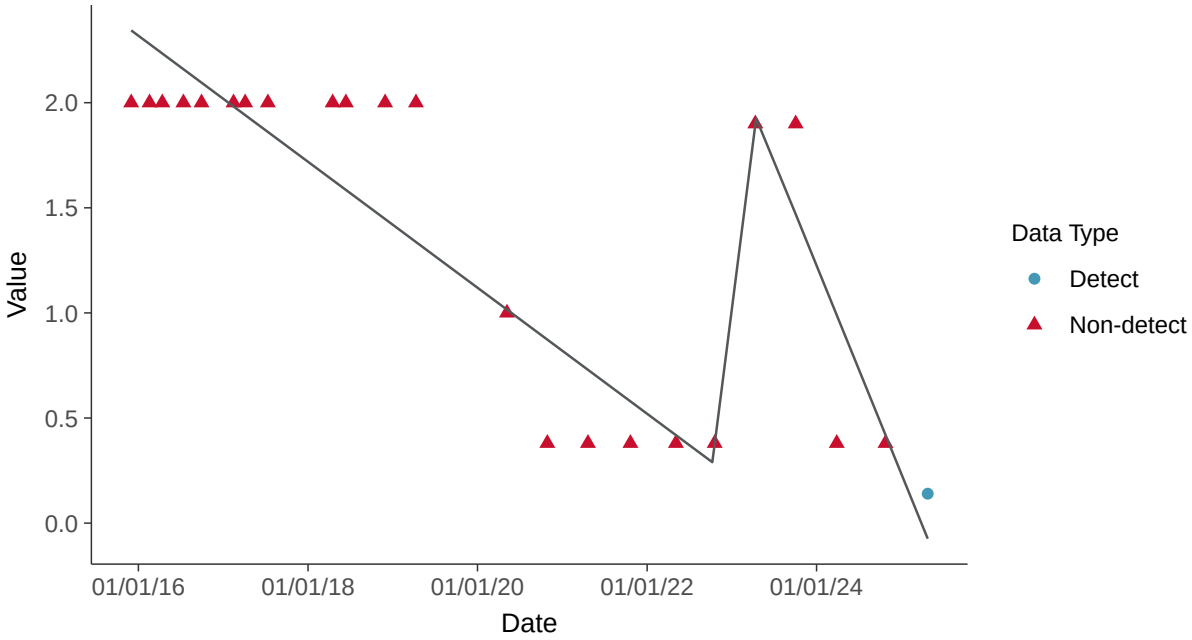
Trend Regression: Piecewise Linear-Linear

Thallium, MW-15013 (ug/L)



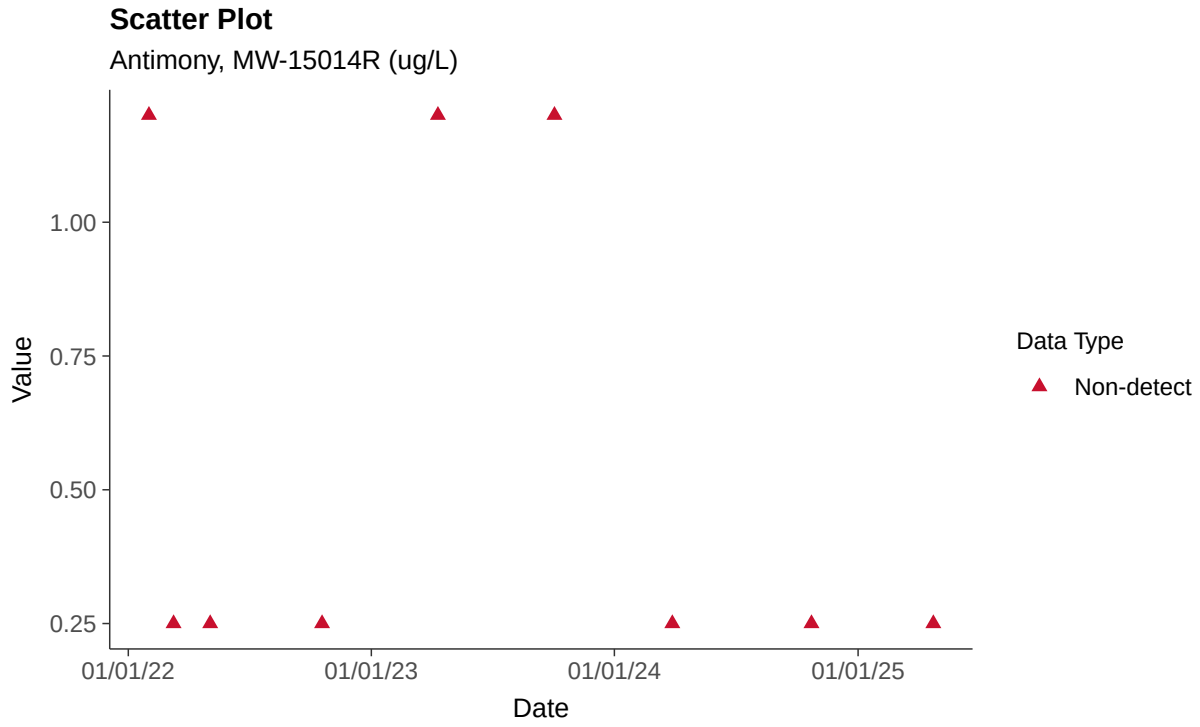
Trend Regression: Piecewise Linear-Linear-Linear

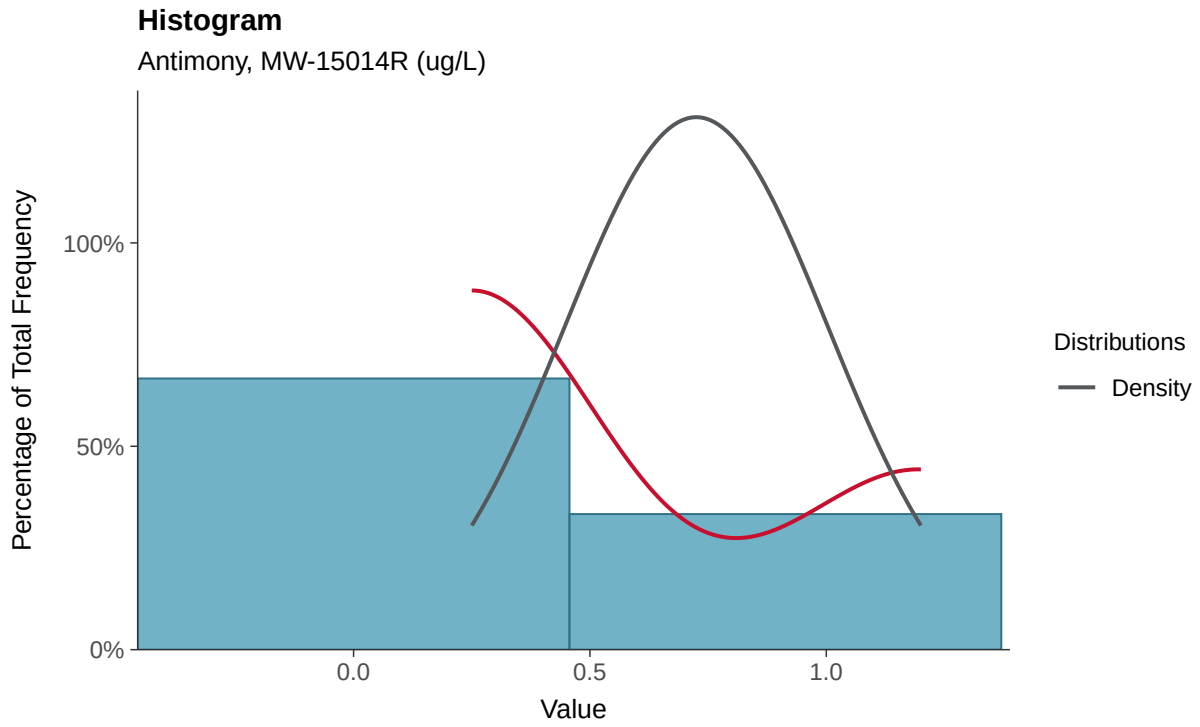
Thallium, MW-15013 (ug/L)



Appendix IV: Antimony, MW-15014R

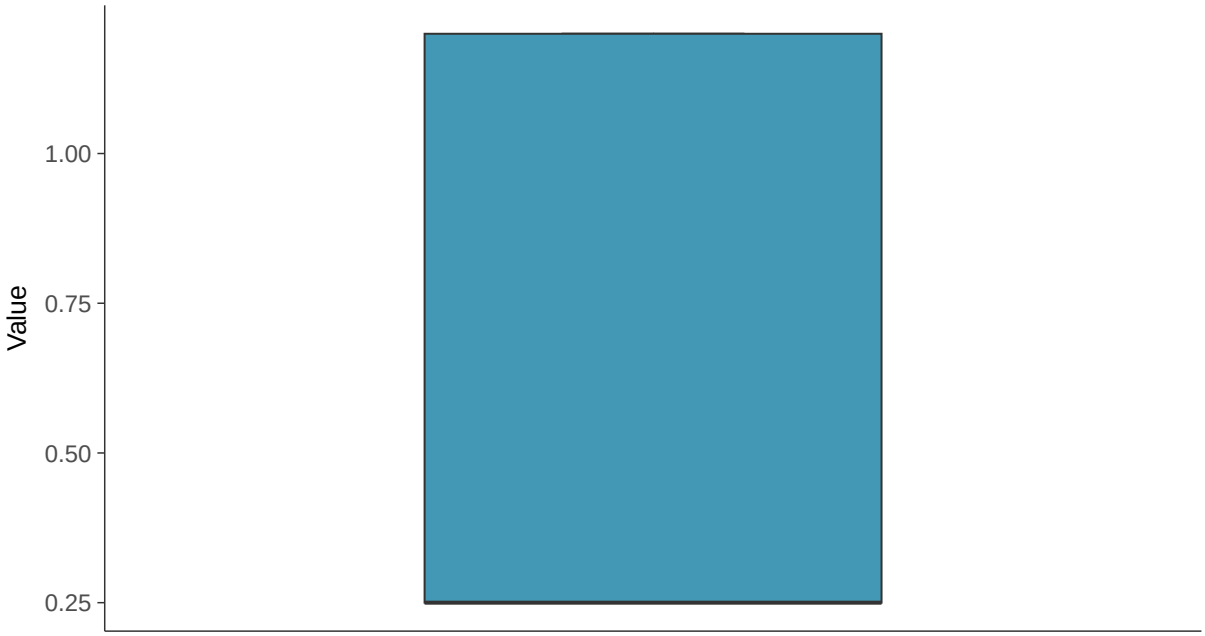
ID: 04_2_101





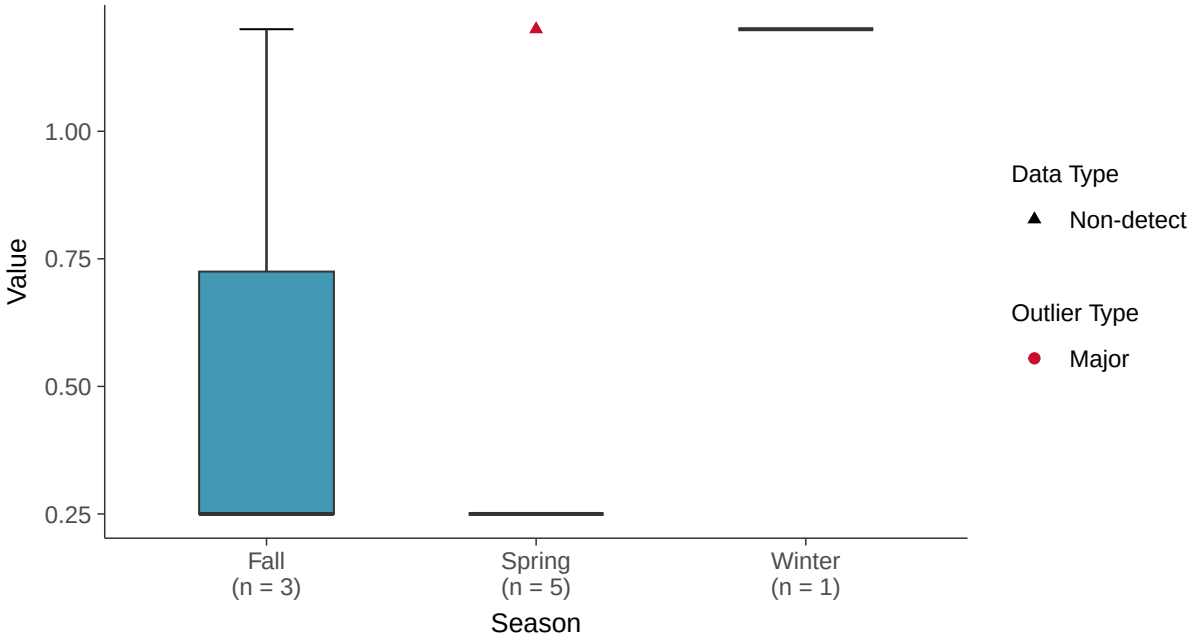
Boxplot

Antimony, MW-15014R (ug/L)



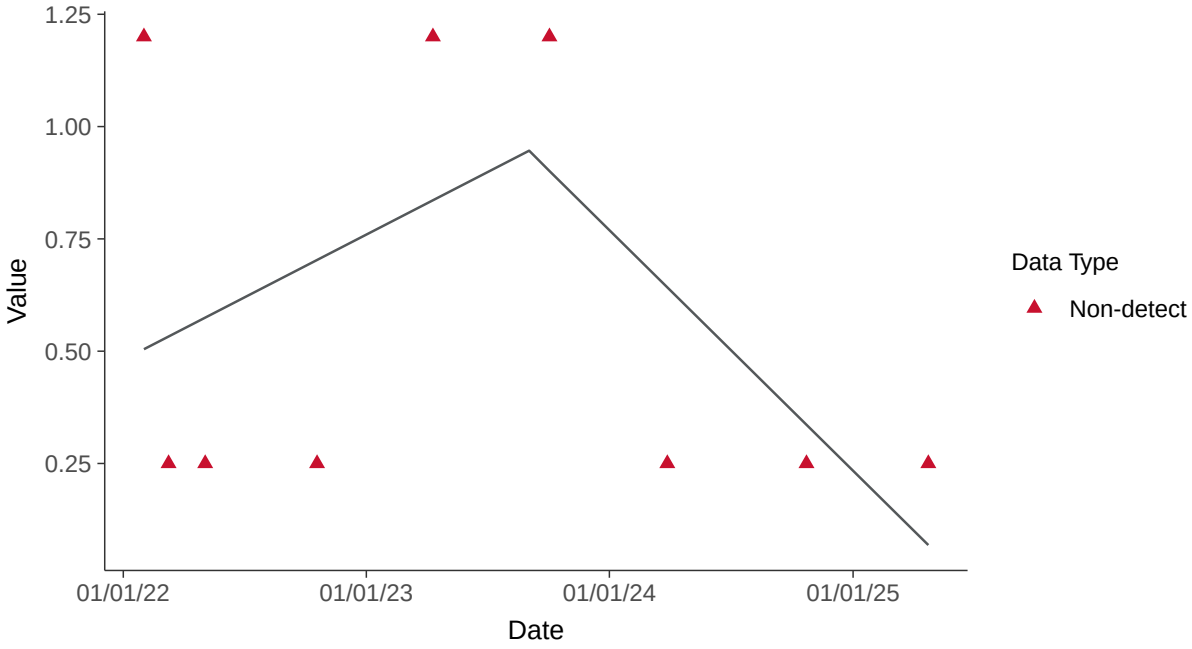
Boxplot by Season

Antimony, MW-15014R (ug/L)



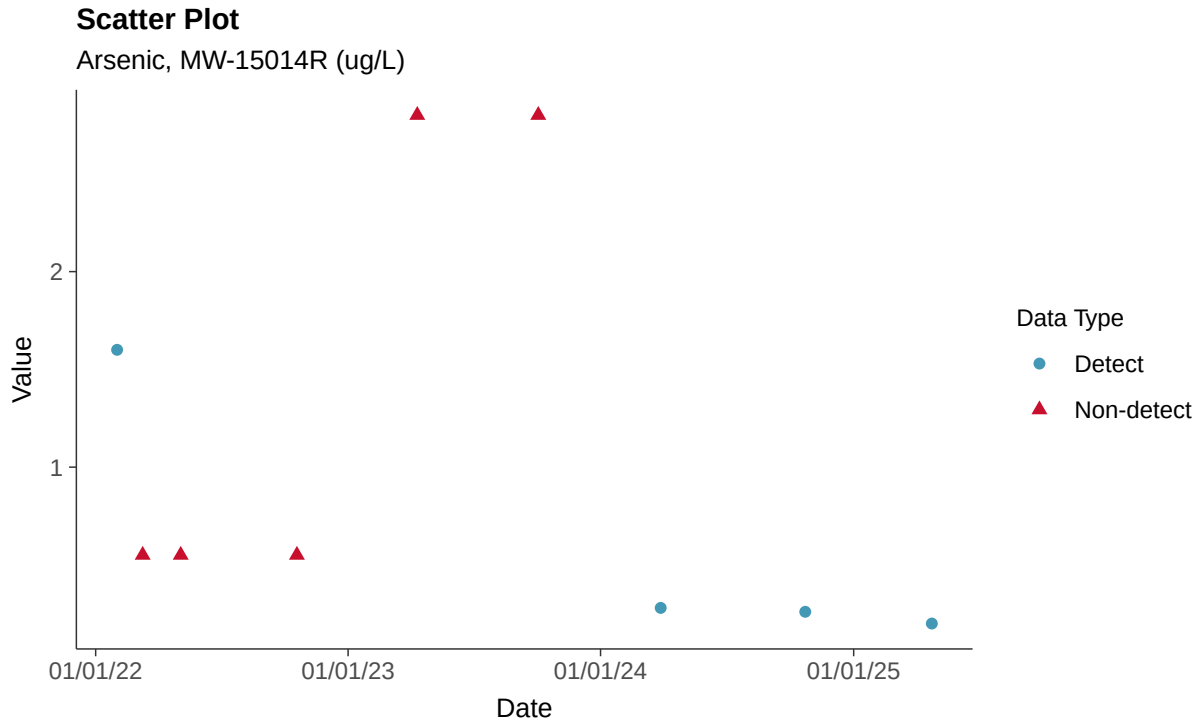
Trend Regression: Piecewise Linear-Linear

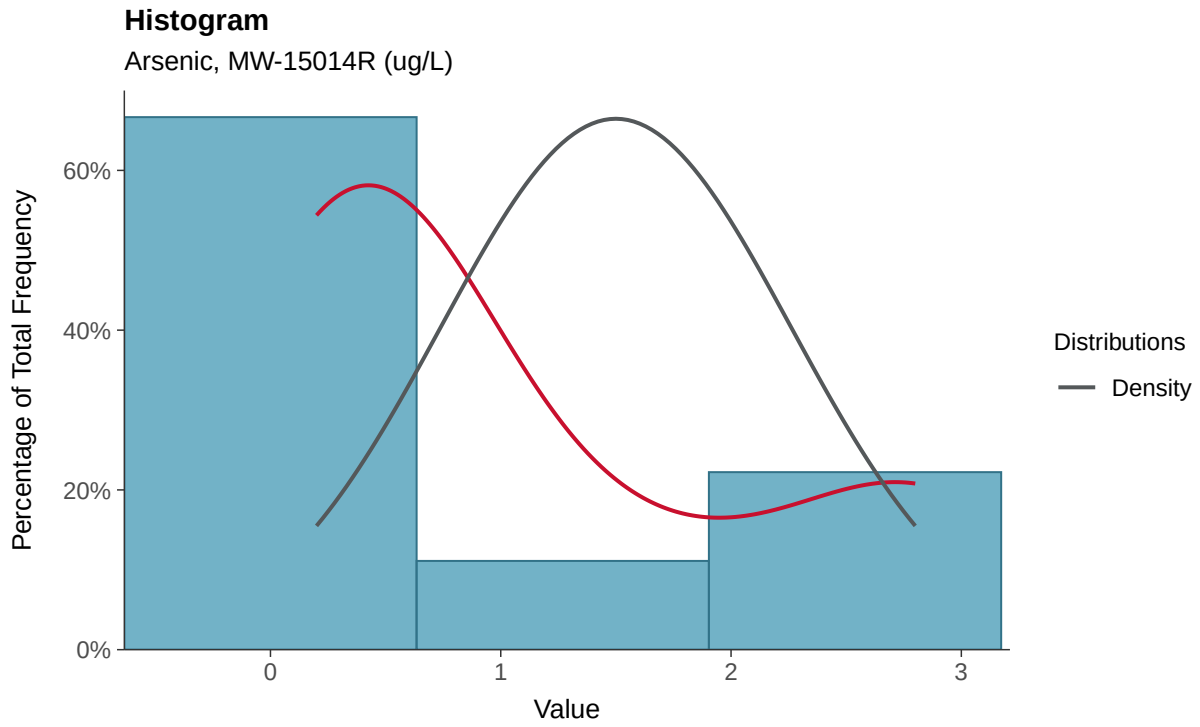
Antimony, MW-15014R (ug/L)



Appendix IV: Arsenic, MW-15014R

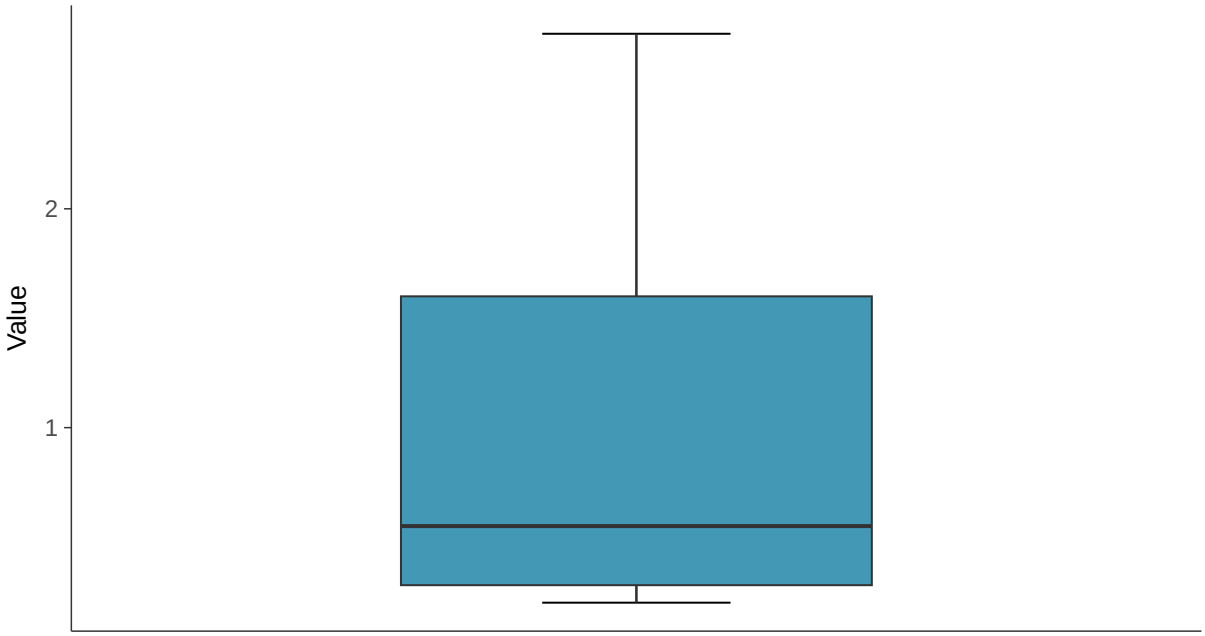
ID: 04_2_102





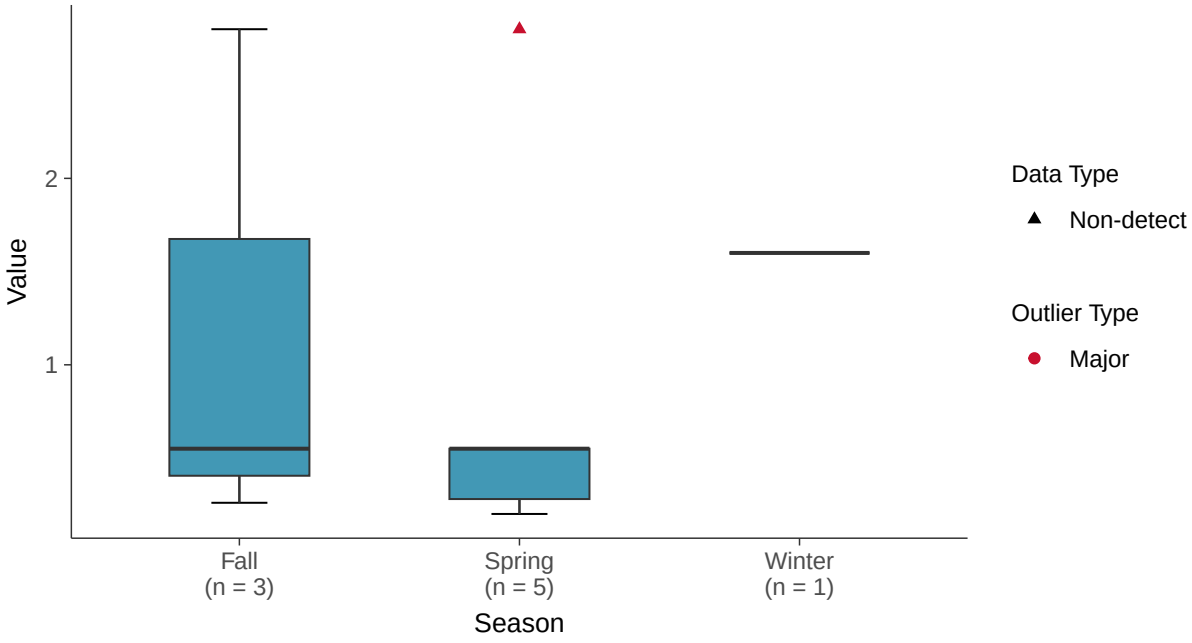
Boxplot

Arsenic, MW-15014R (ug/L)



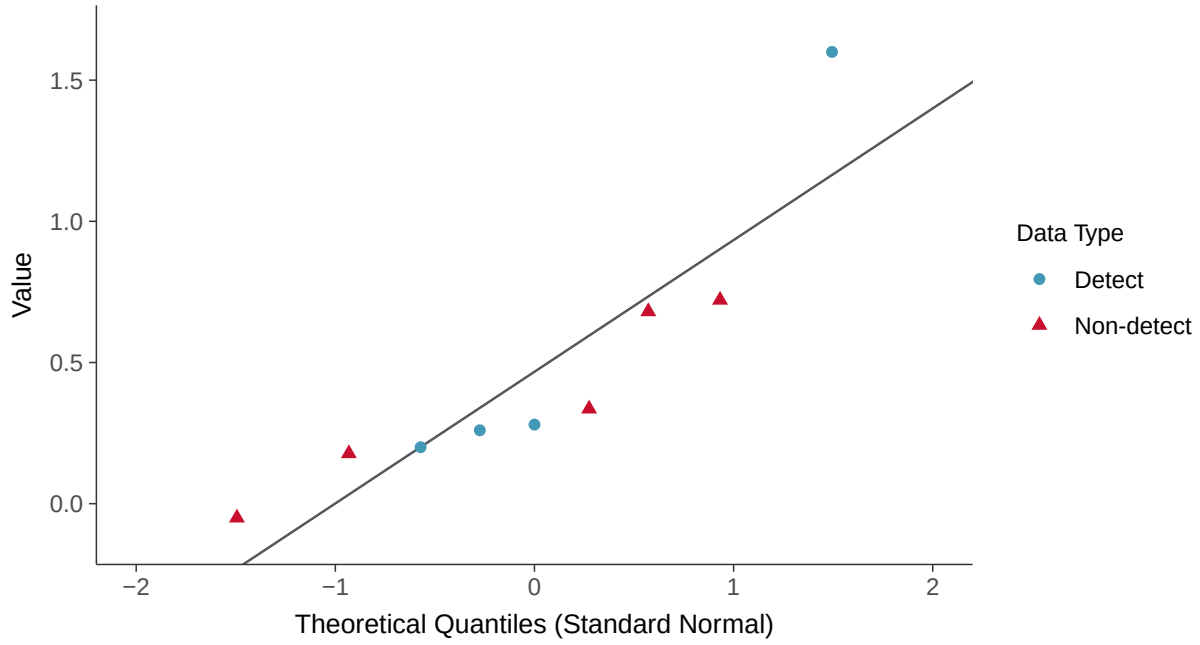
Boxplot by Season

Arsenic, MW-15014R (ug/L)



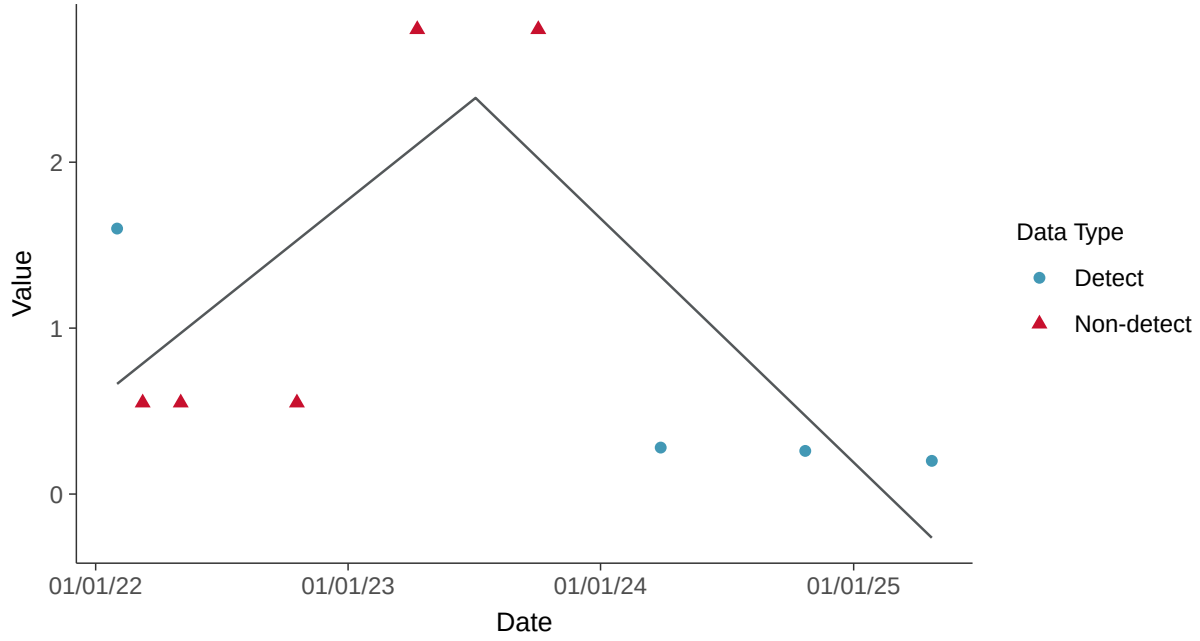
Normal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15014R (ug/L)



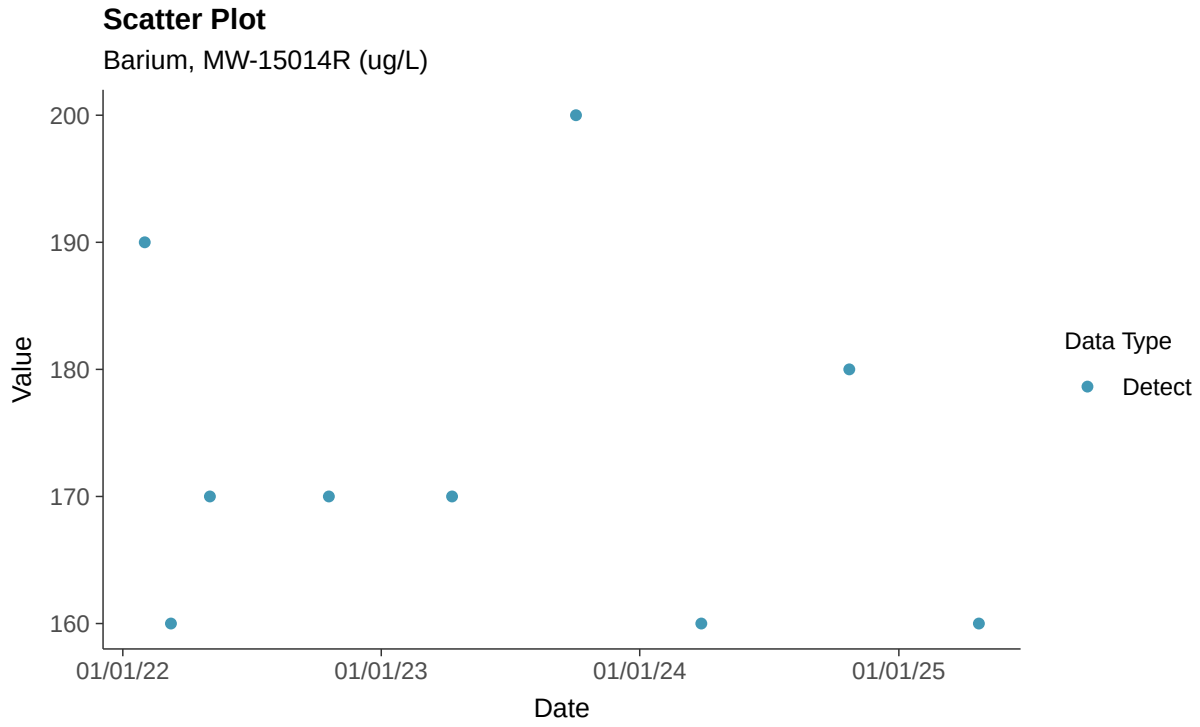
Trend Regression: Piecewise Linear-Linear

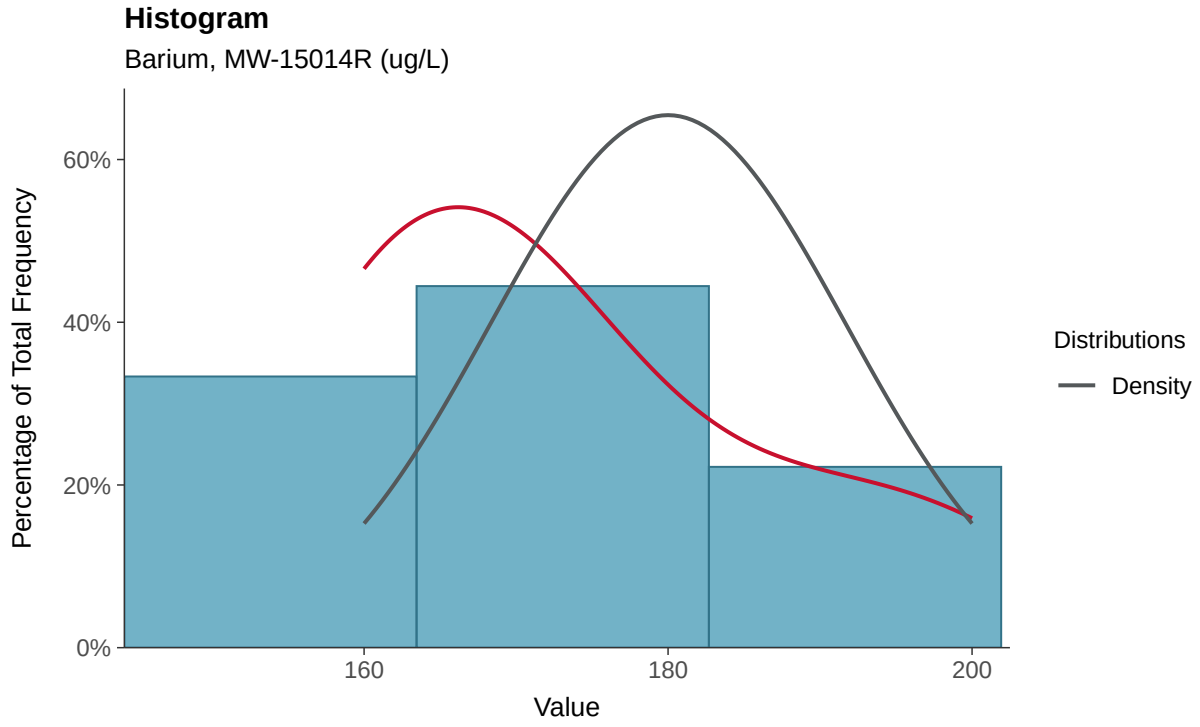
Arsenic, MW-15014R (ug/L)



Appendix IV: Barium, MW-15014R

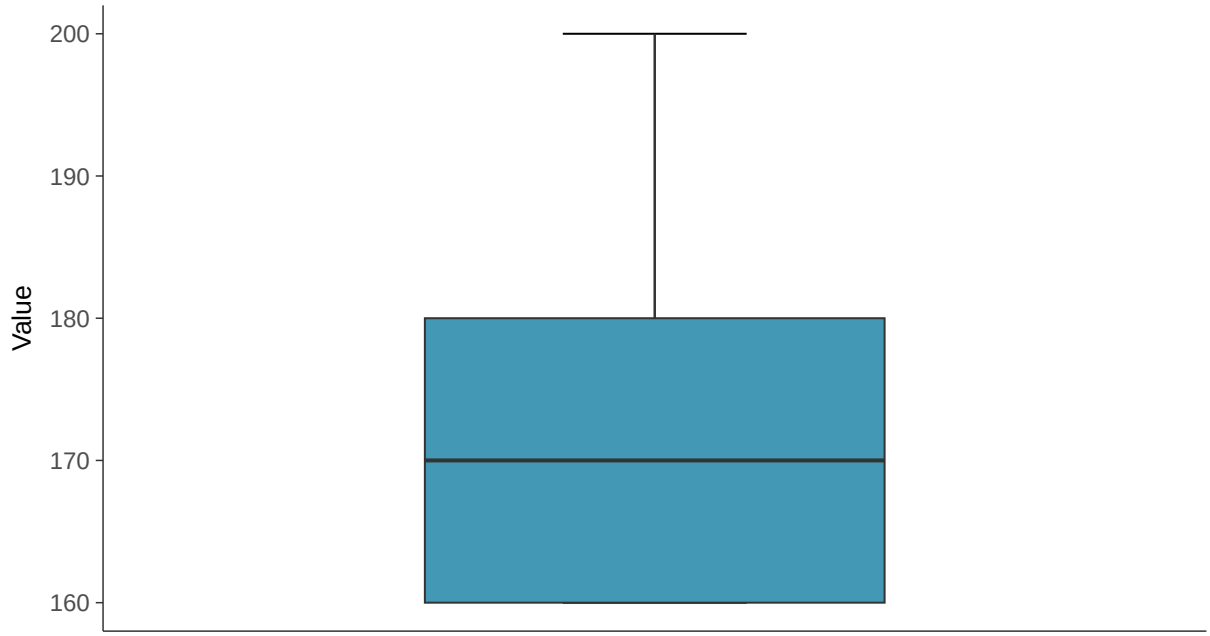
ID: 04_2_103





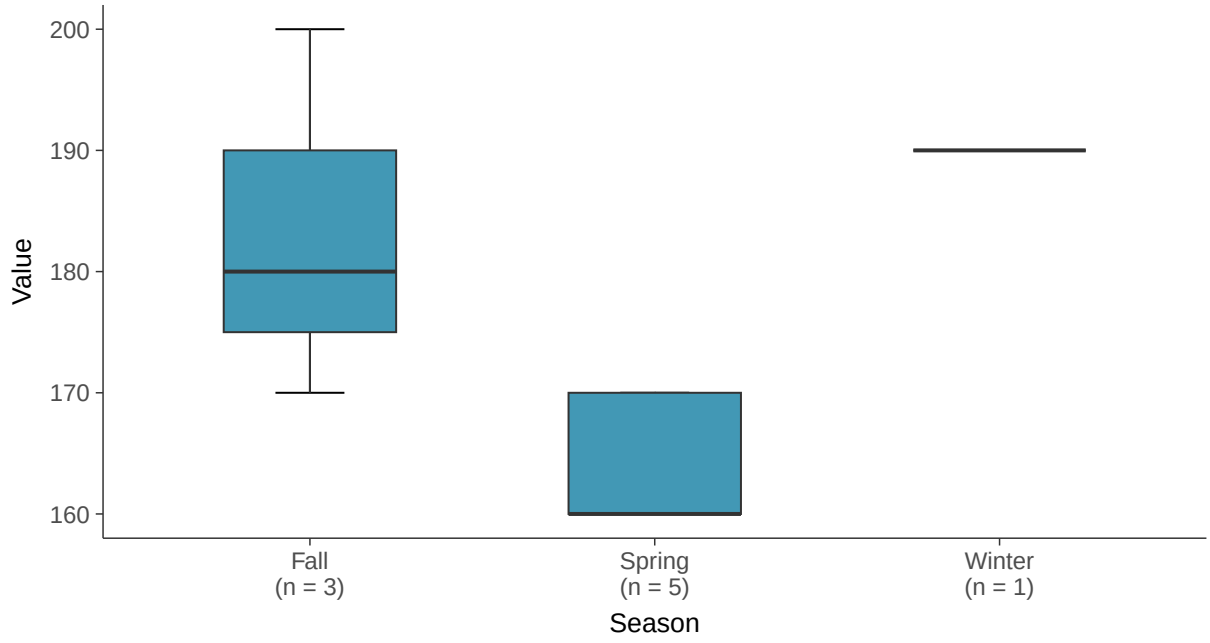
Boxplot

Barium, MW-15014R (ug/L)



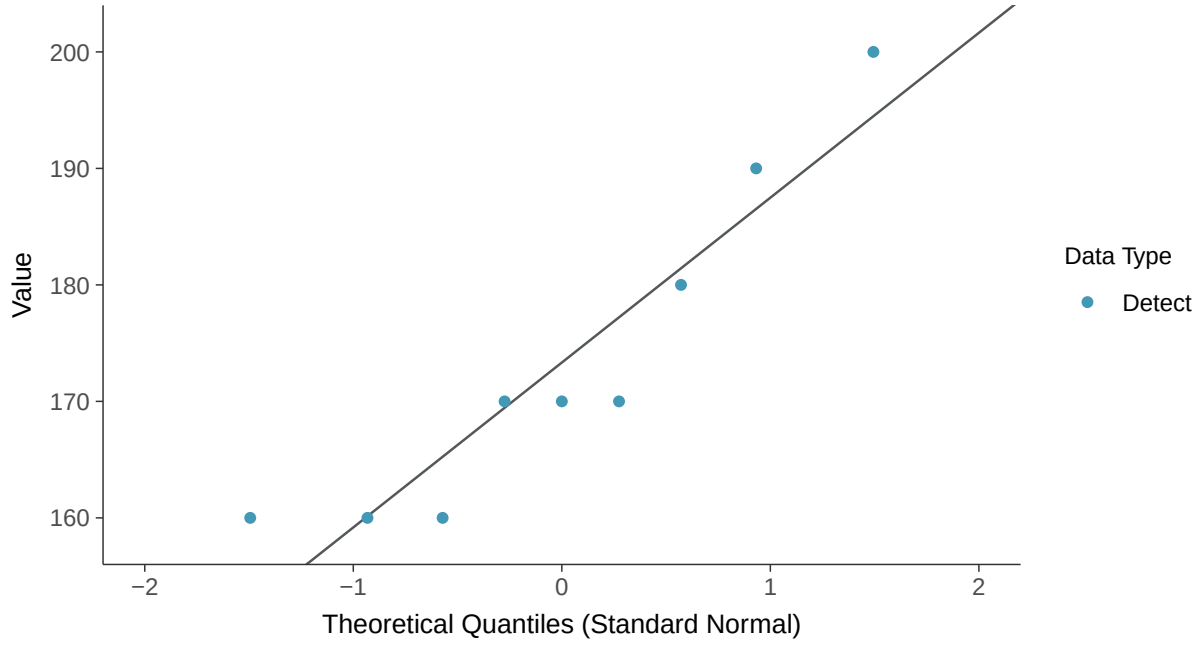
Boxplot by Season

Barium, MW-15014R (ug/L)



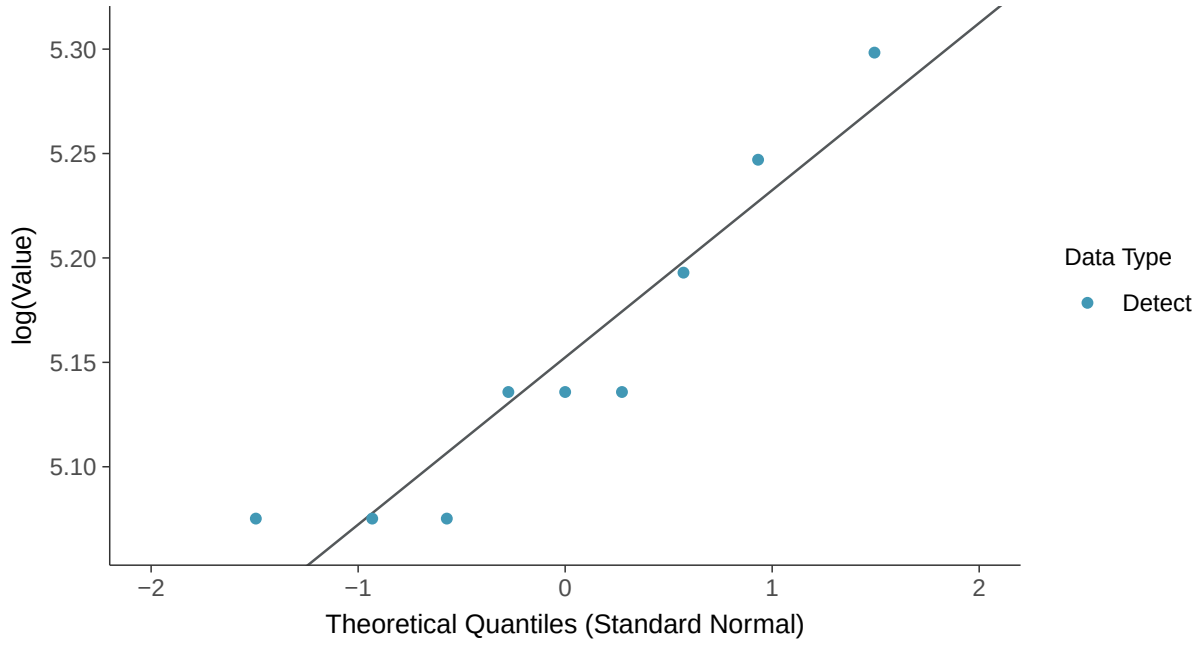
Normal Q-Q plot

Barium, MW-15014R (ug/L)



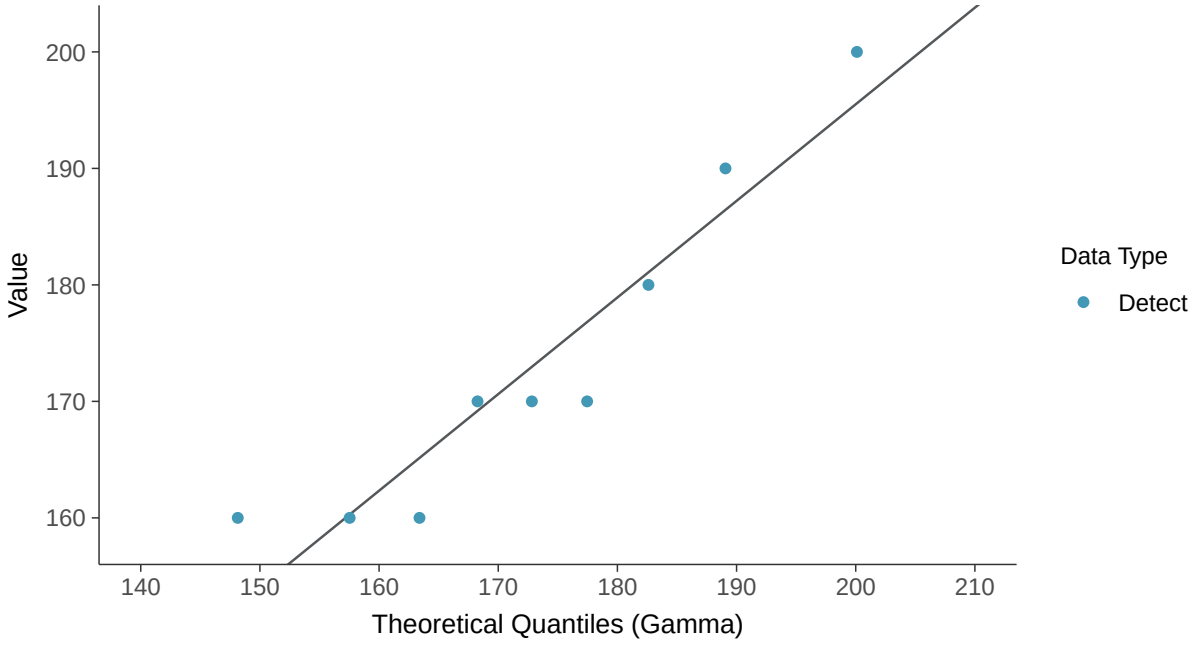
Lognormal Q-Q plot

Barium, MW-15014R (ug/L)



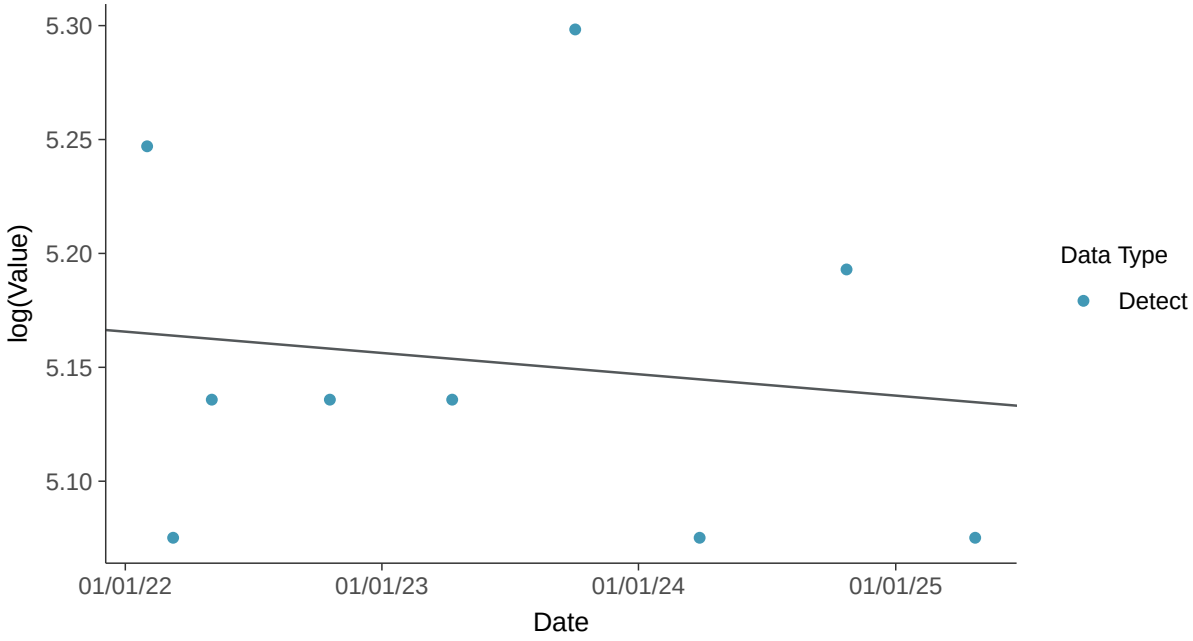
Gamma Q-Q plot

Barium, MW-15014R (ug/L)



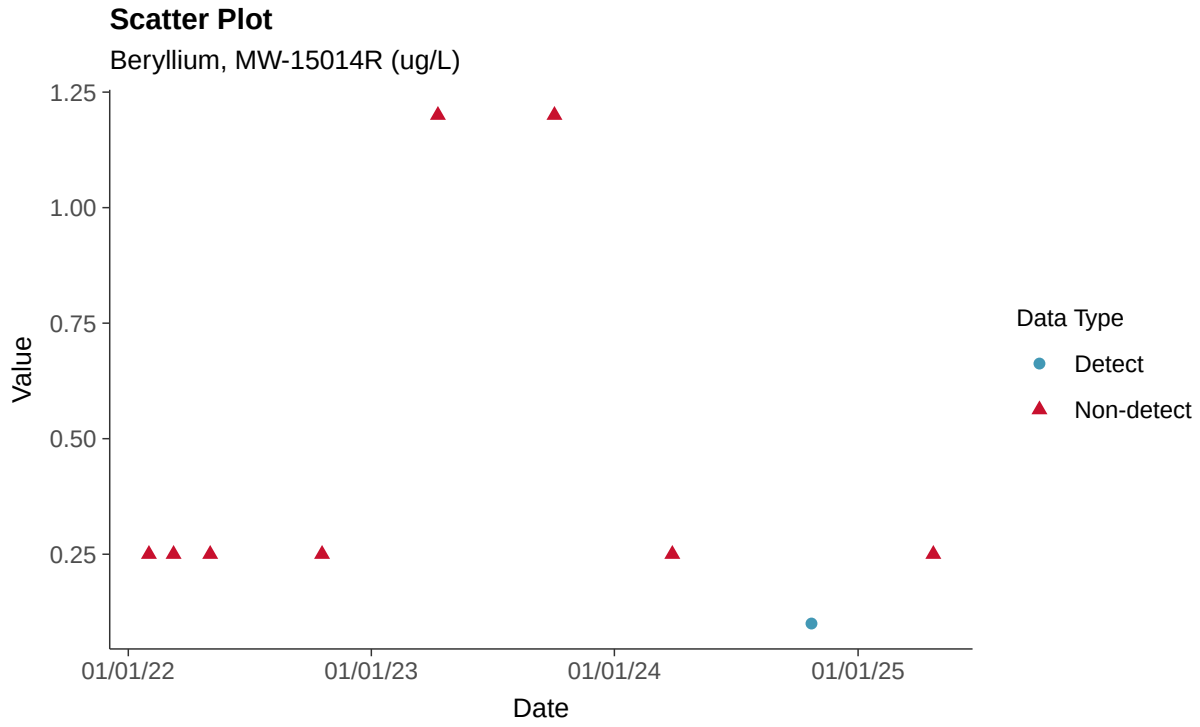
Trend Regression: Lognormal MLE

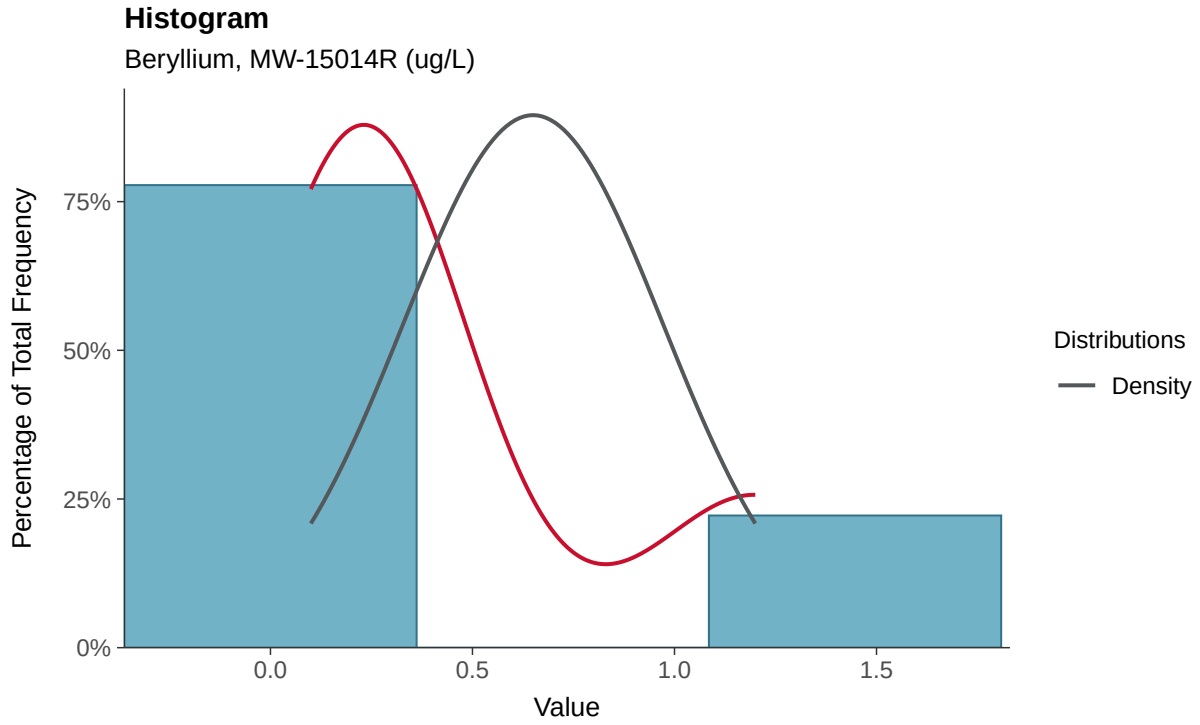
Barium, MW-15014R (ug/L)



Appendix IV: Beryllium, MW-15014R

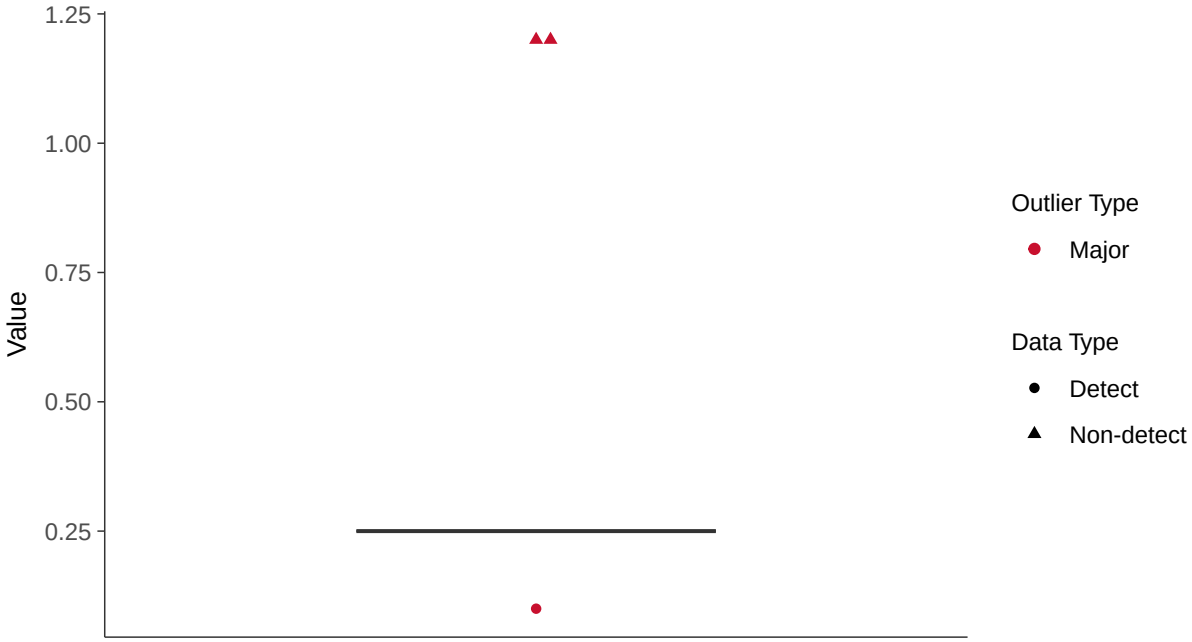
ID: 04_2_104





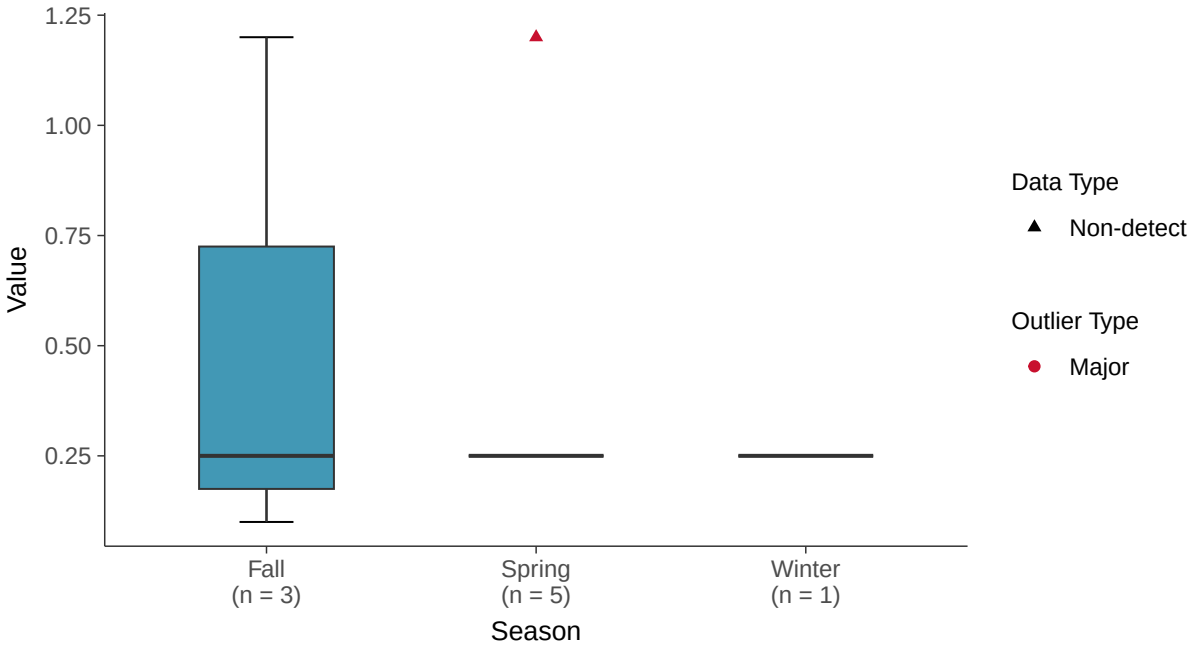
Boxplot

Beryllium, MW-15014R (ug/L)



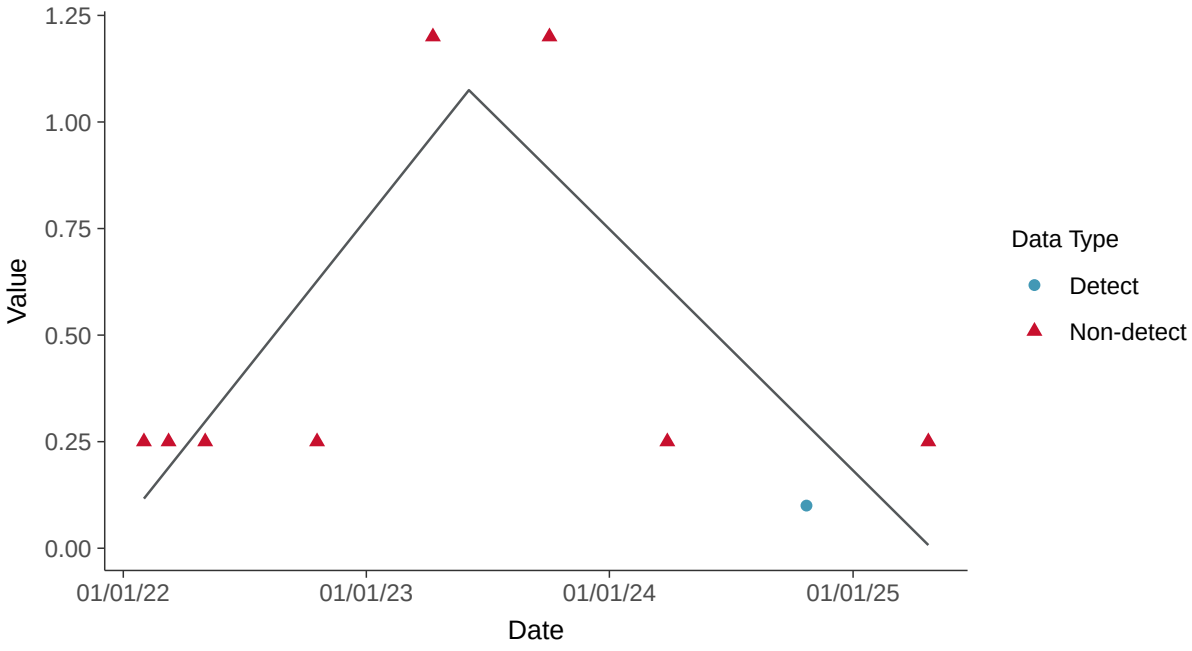
Boxplot by Season

Beryllium, MW-15014R (ug/L)



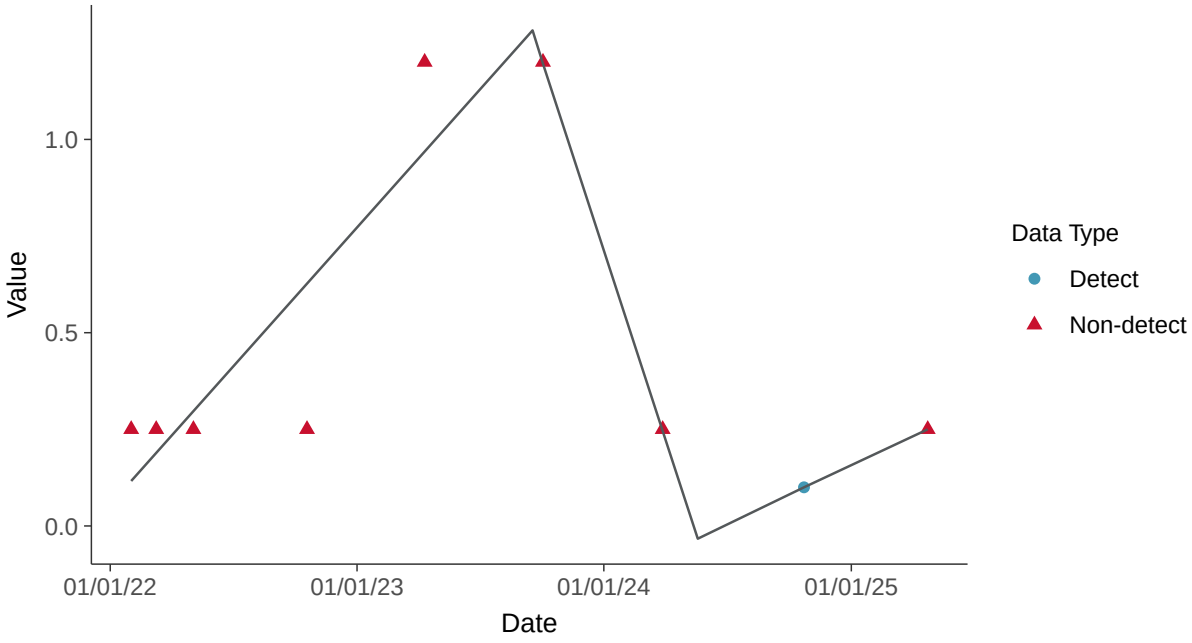
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-15014R (ug/L)



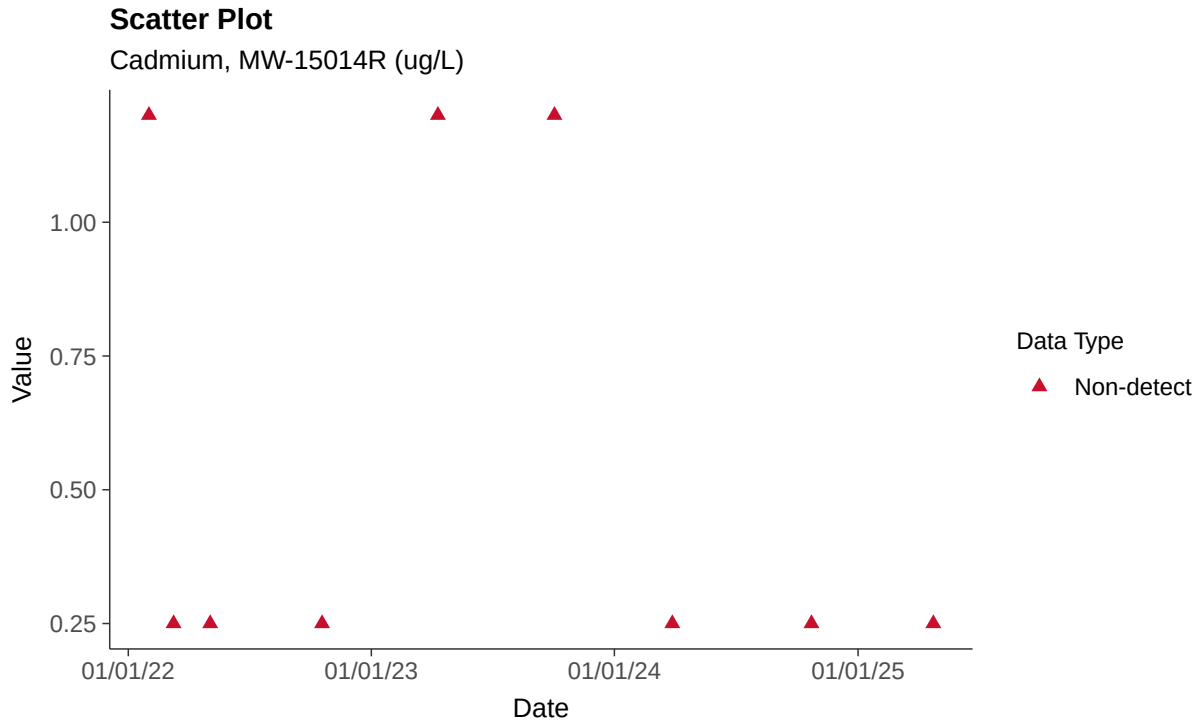
Trend Regression: Piecewise Linear-Linear-Linear

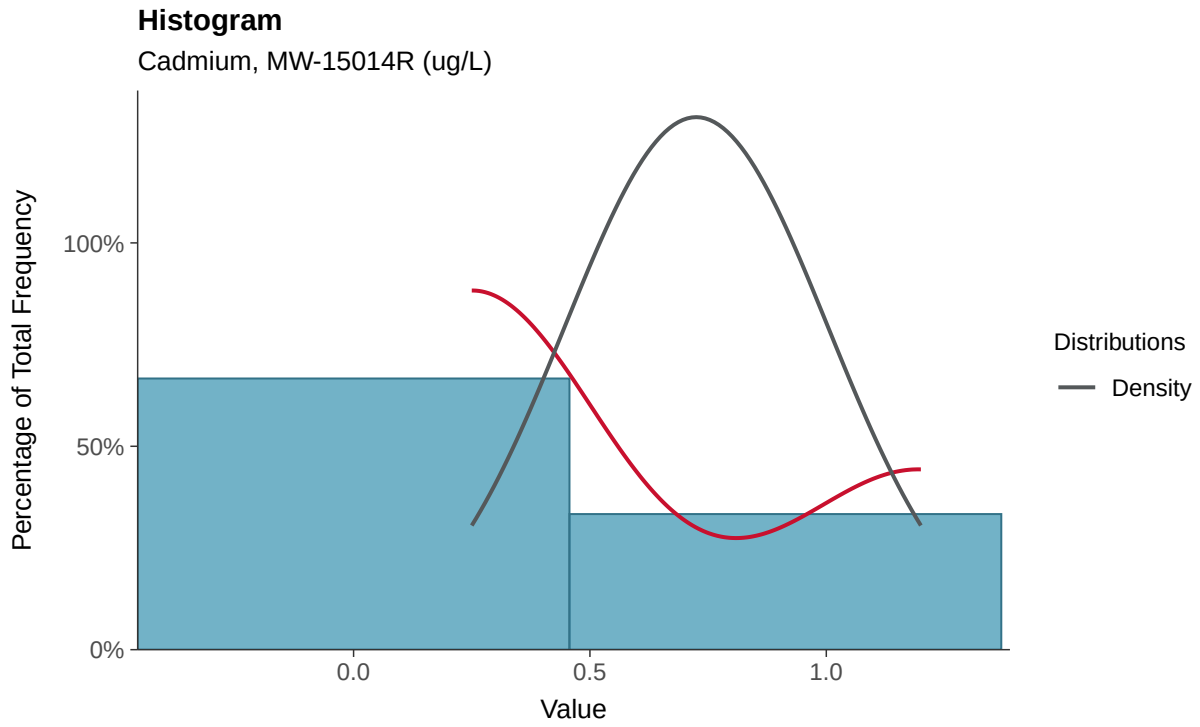
Beryllium, MW-15014R (ug/L)



Appendix IV: Cadmium, MW-15014R

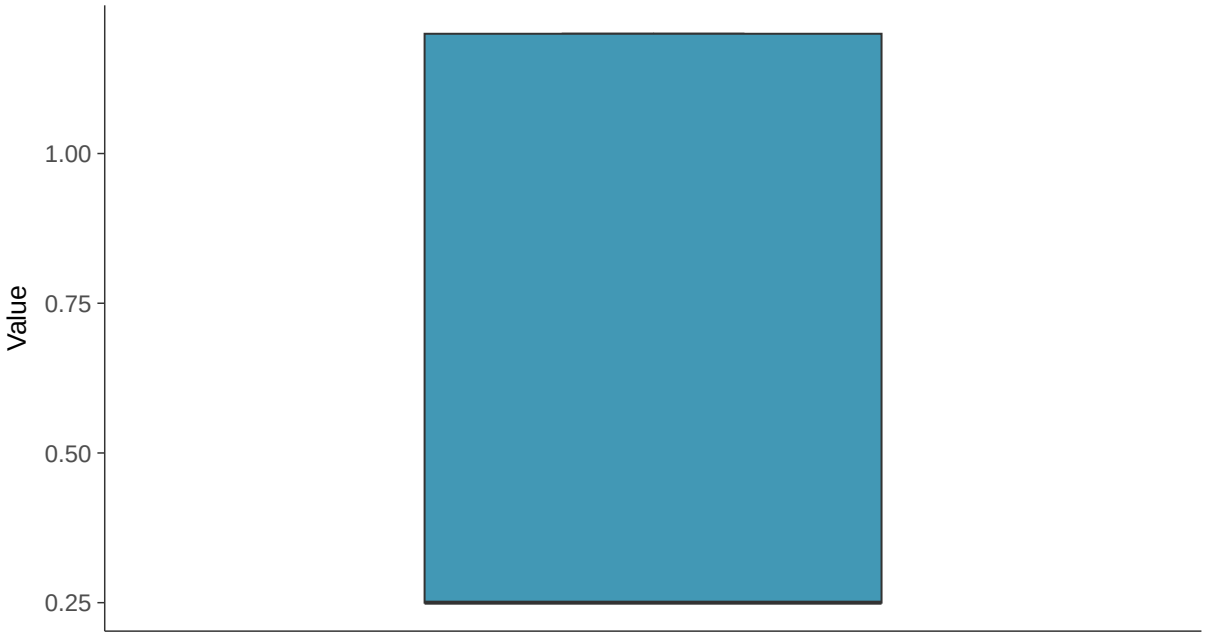
ID: 04_2_106





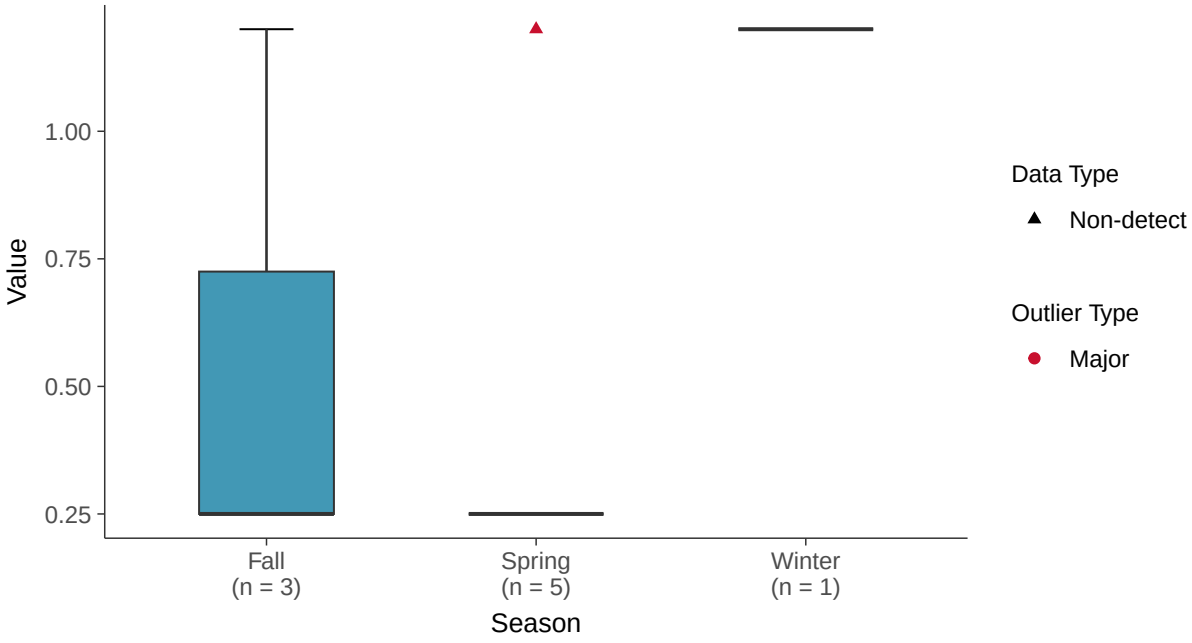
Boxplot

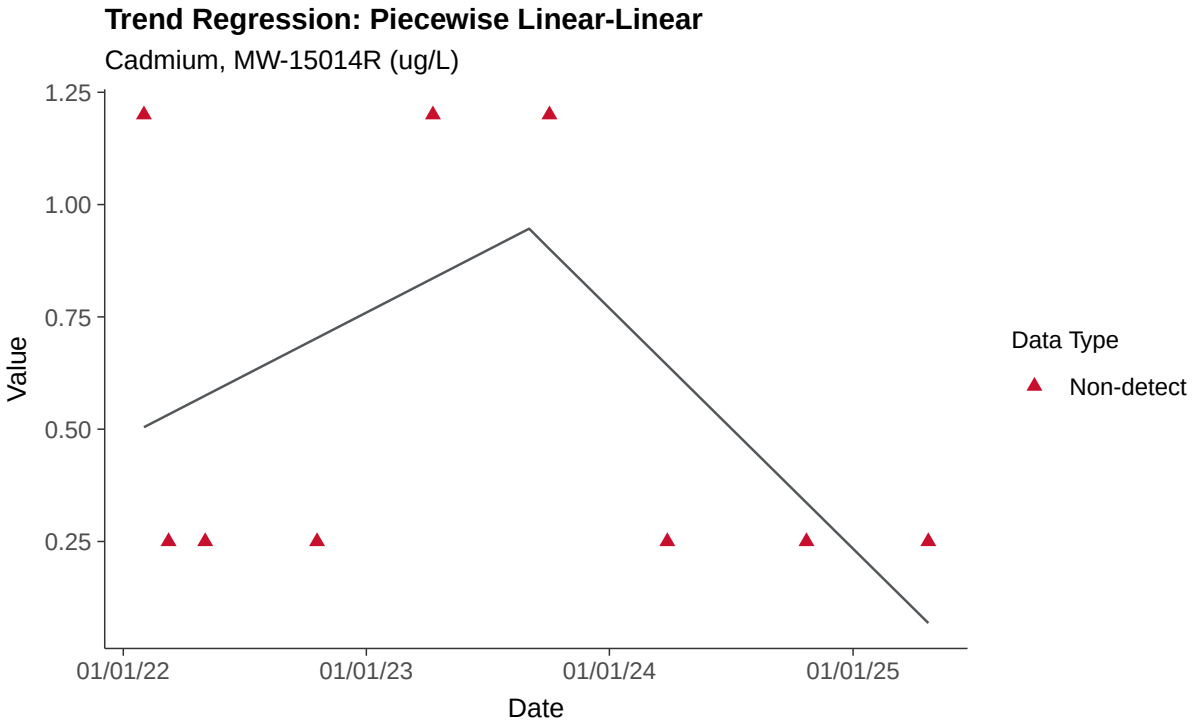
Cadmium, MW-15014R (ug/L)



Boxplot by Season

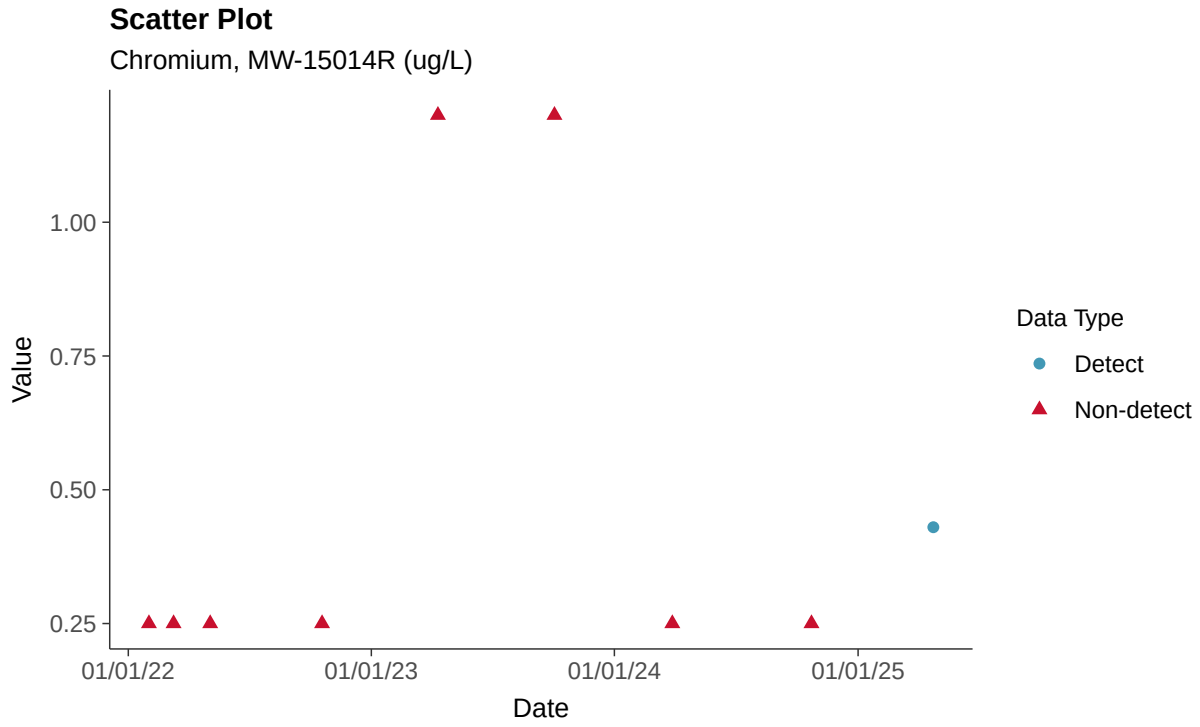
Cadmium, MW-15014R (ug/L)

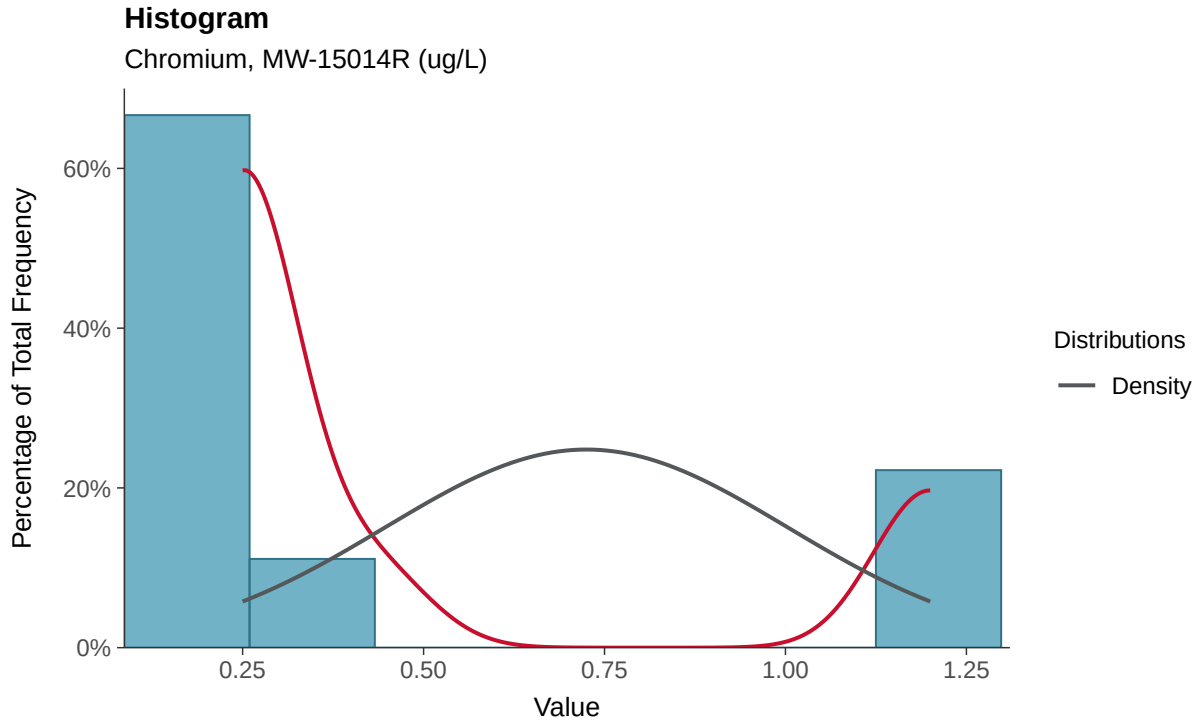



Trend Regression: Piecewise Linear-Linear
Cadmium, MW-15014R (ug/L)
1.25
1.00
0.75
0.50
0.25
Value
01/01/22
01/01/23
01/01/24
01/01/25
Date
Data Type
Non-detect

Appendix IV: Chromium, MW-15014R

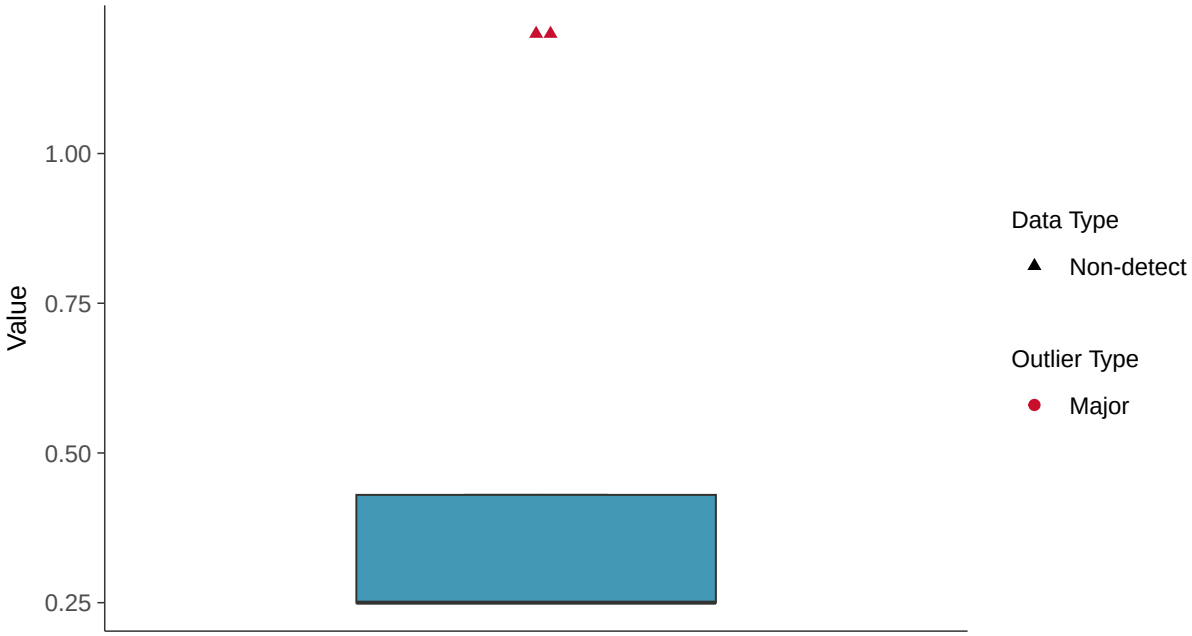
ID: 04_2_109





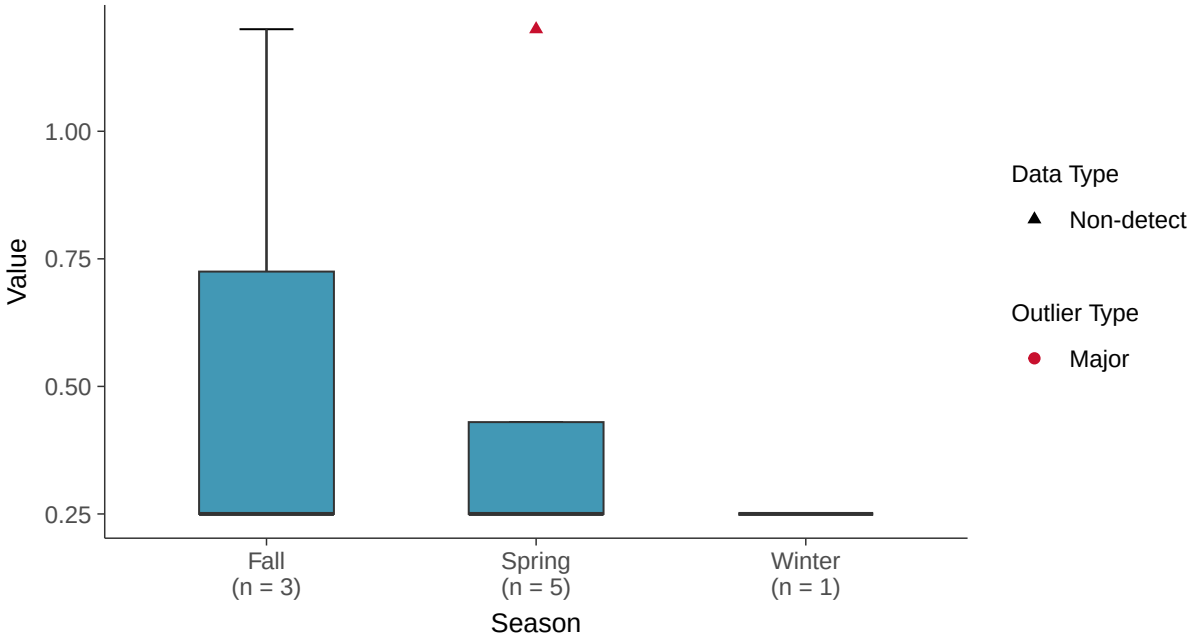
Boxplot

Chromium, MW-15014R (ug/L)



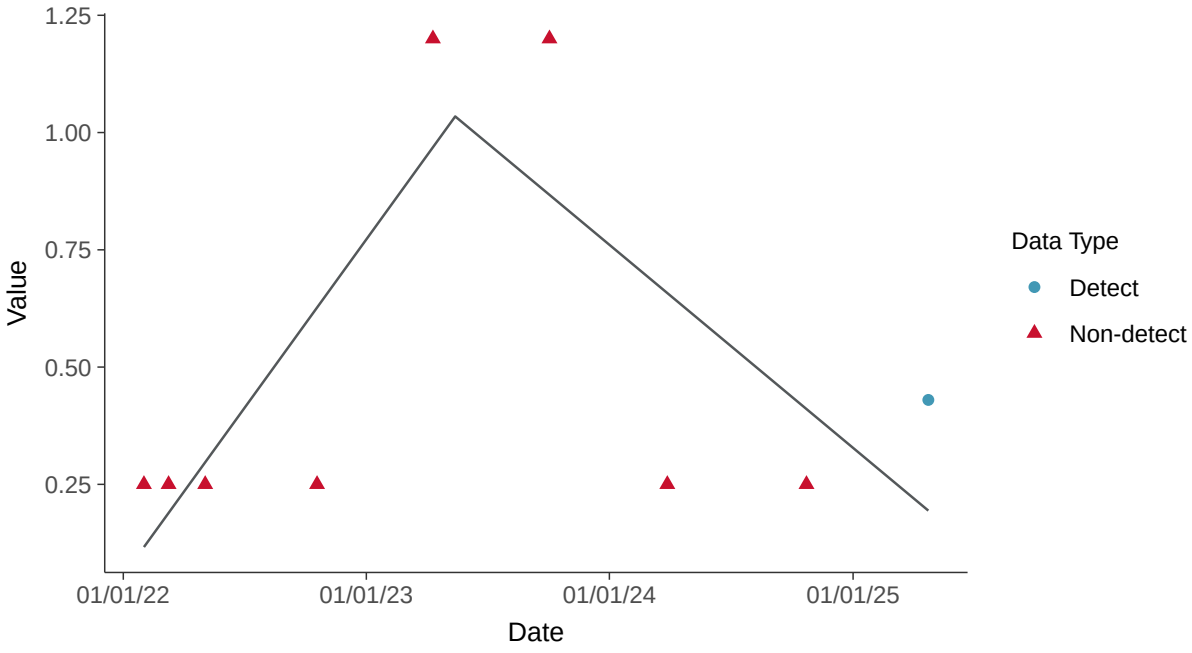
Boxplot by Season

Chromium, MW-15014R (ug/L)



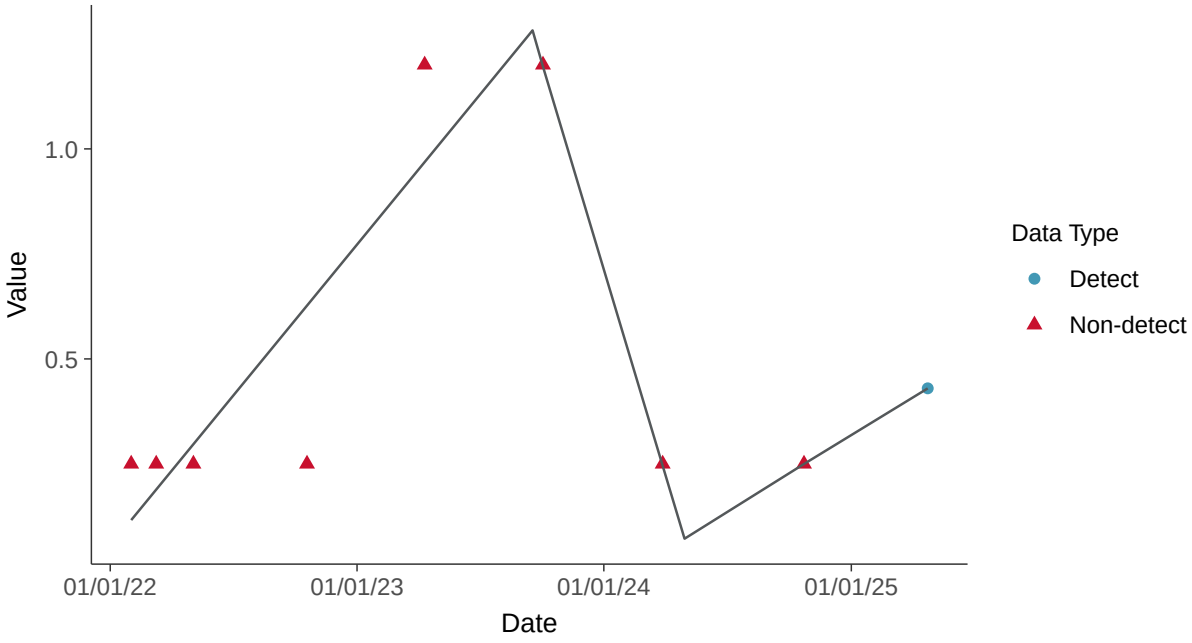
Trend Regression: Piecewise Linear-Linear

Chromium, MW-15014R (ug/L)



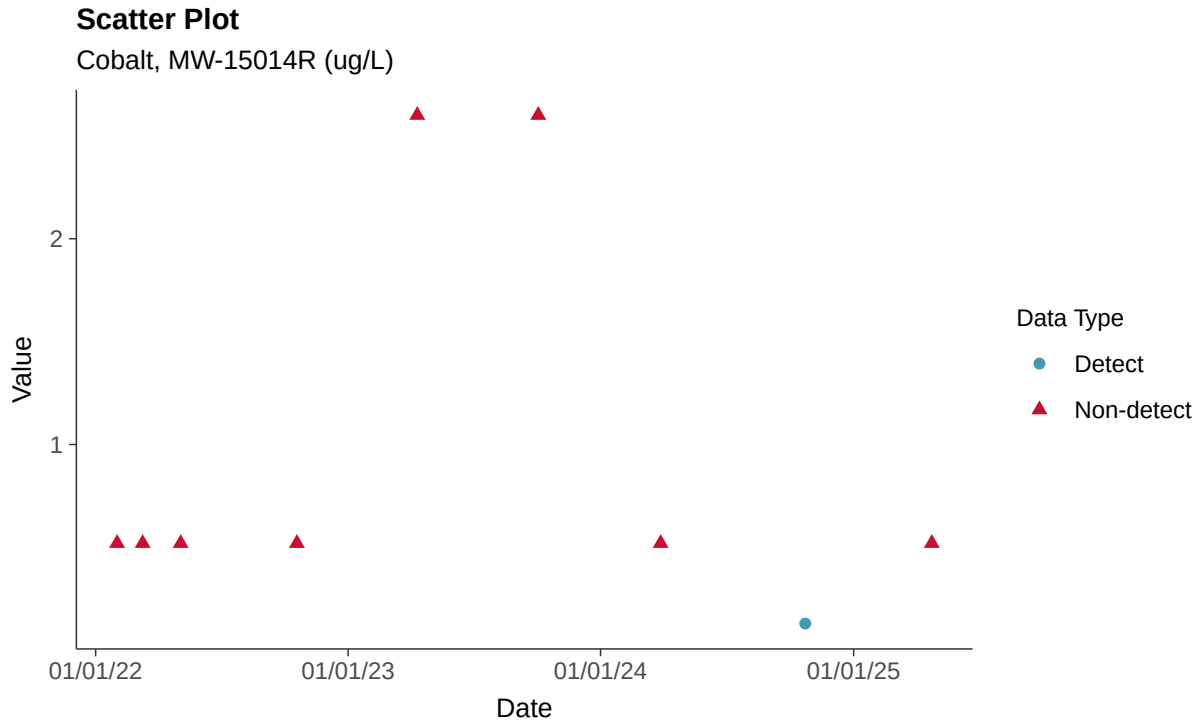
Trend Regression: Piecewise Linear-Linear-Linear

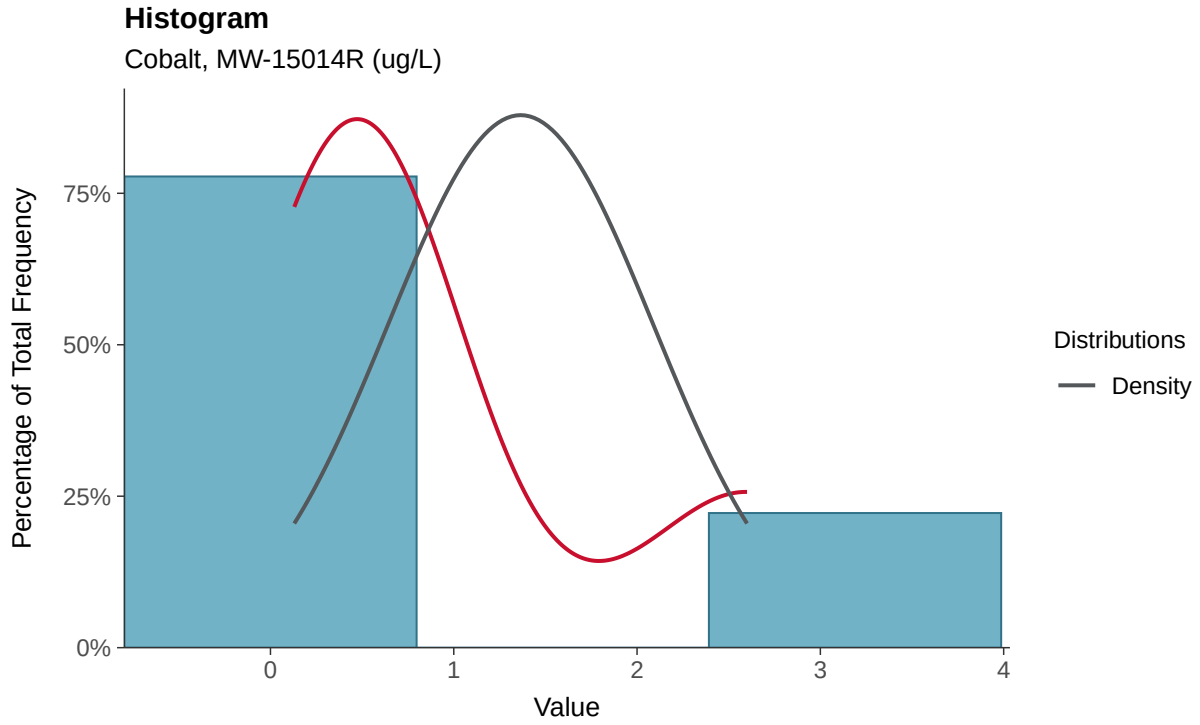
Chromium, MW-15014R (ug/L)



Appendix IV: Cobalt, MW-15014R

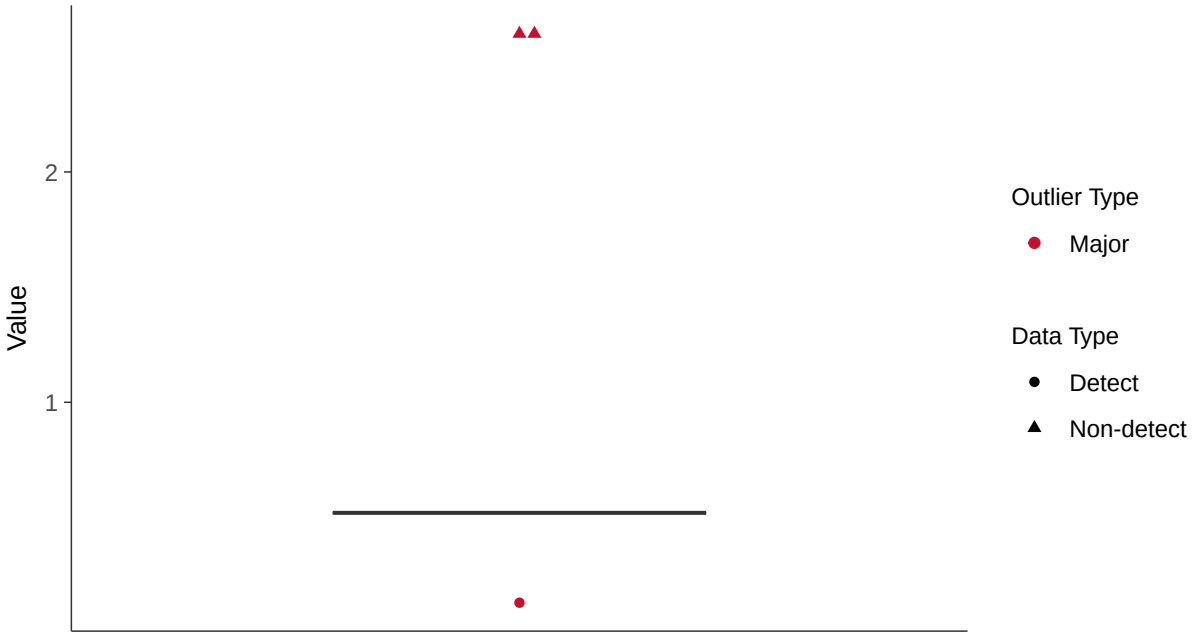
ID: 04_2_110





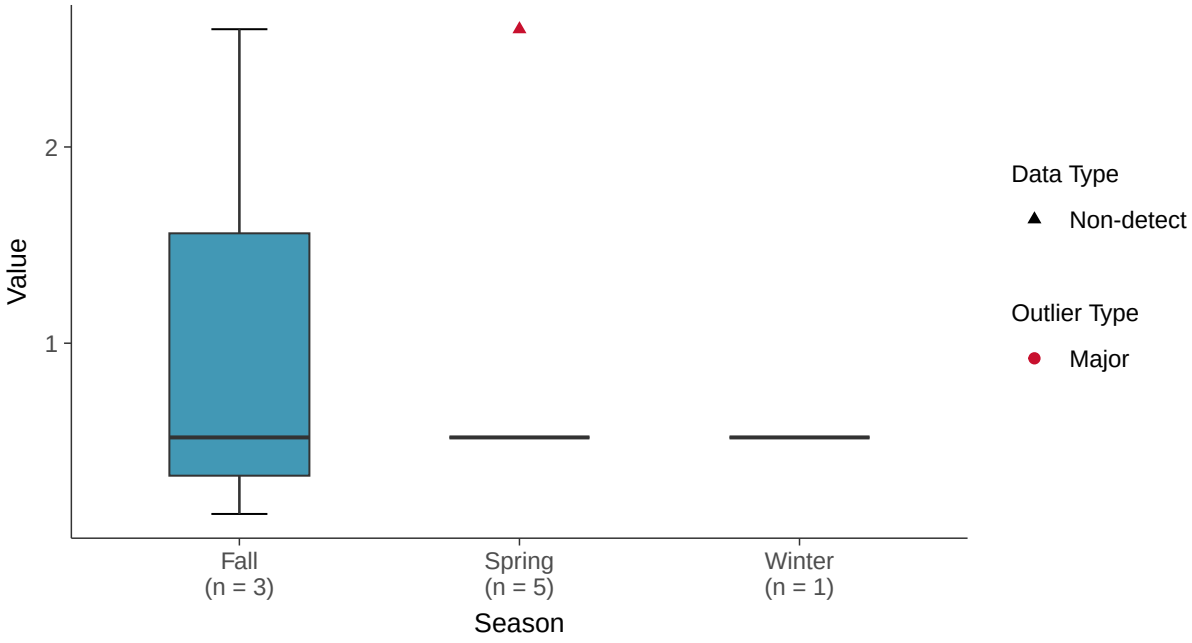
Boxplot

Cobalt, MW-15014R (ug/L)



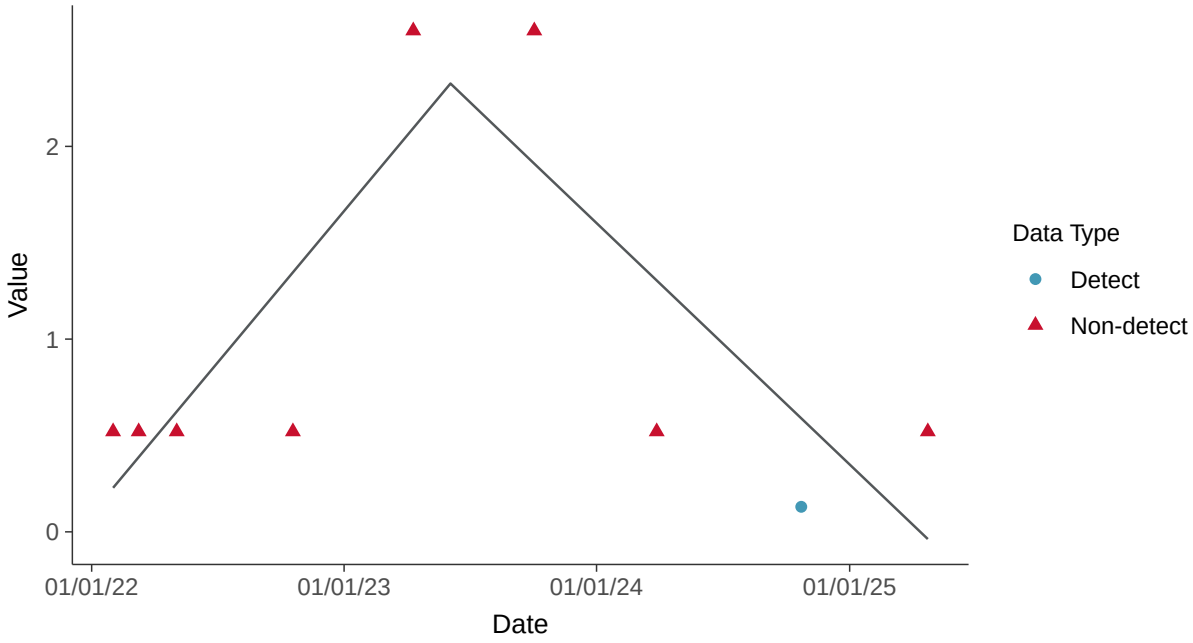
Boxplot by Season

Cobalt, MW-15014R (ug/L)



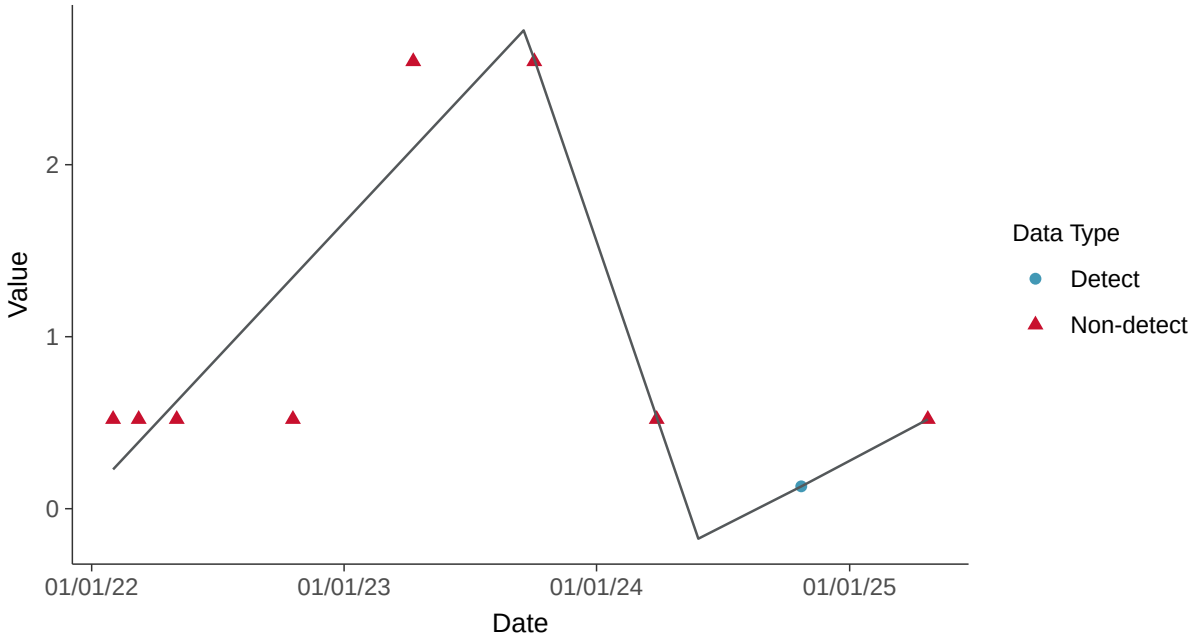
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15014R (ug/L)



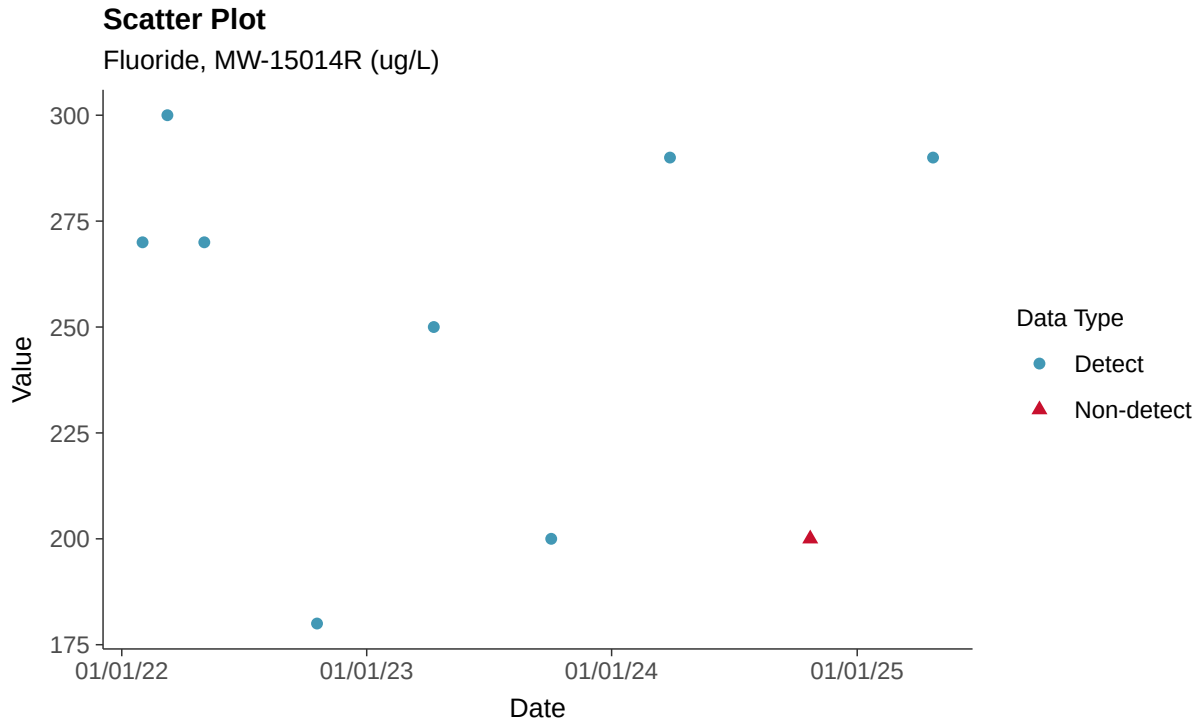
Trend Regression: Piecewise Linear-Linear-Linear

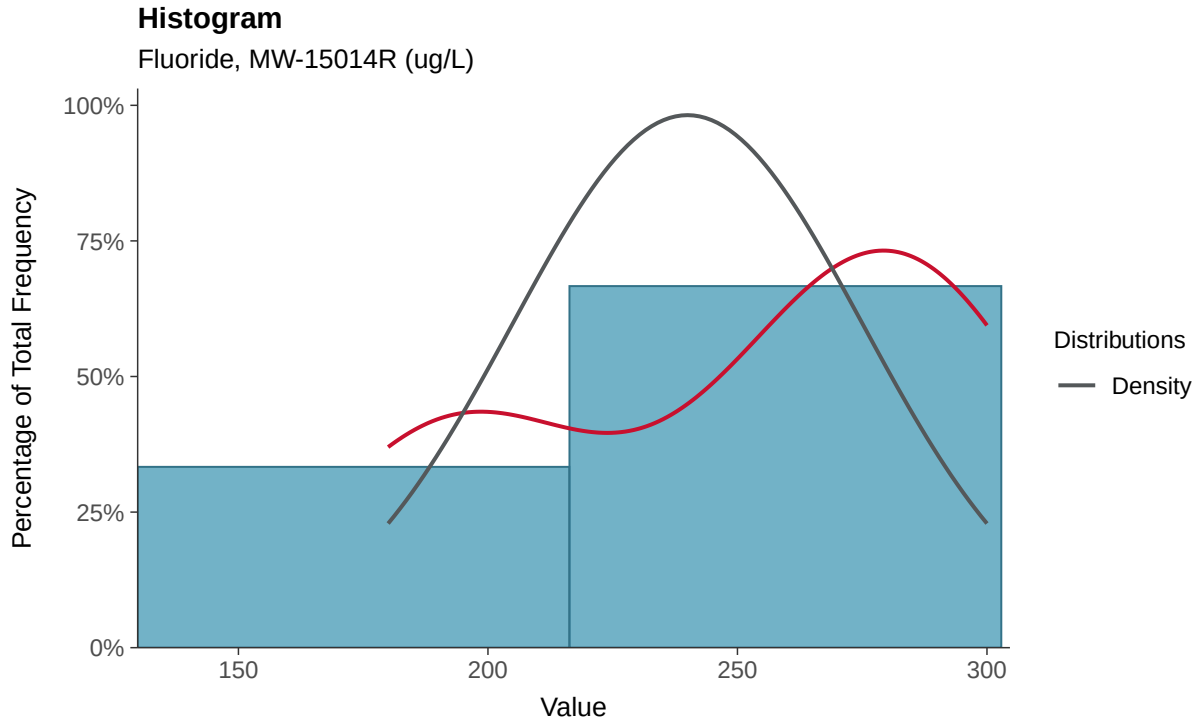
Cobalt, MW-15014R (ug/L)



Appendix IV: Fluoride, MW-15014R

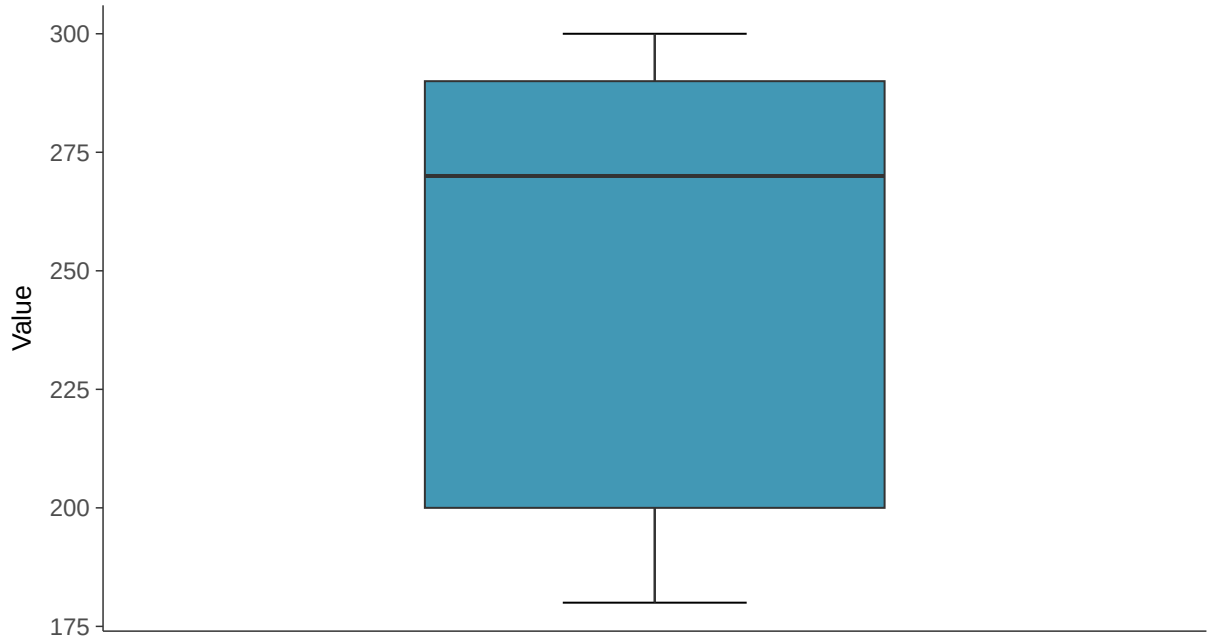
ID: 04_2_114





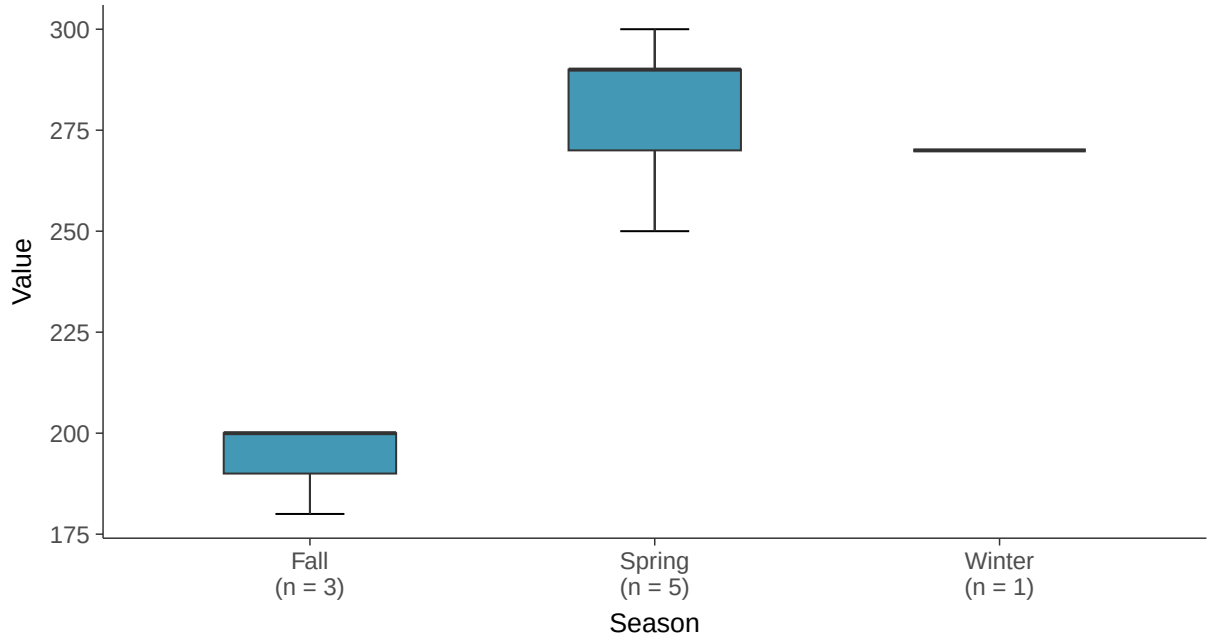
Boxplot

Fluoride, MW-15014R (ug/L)



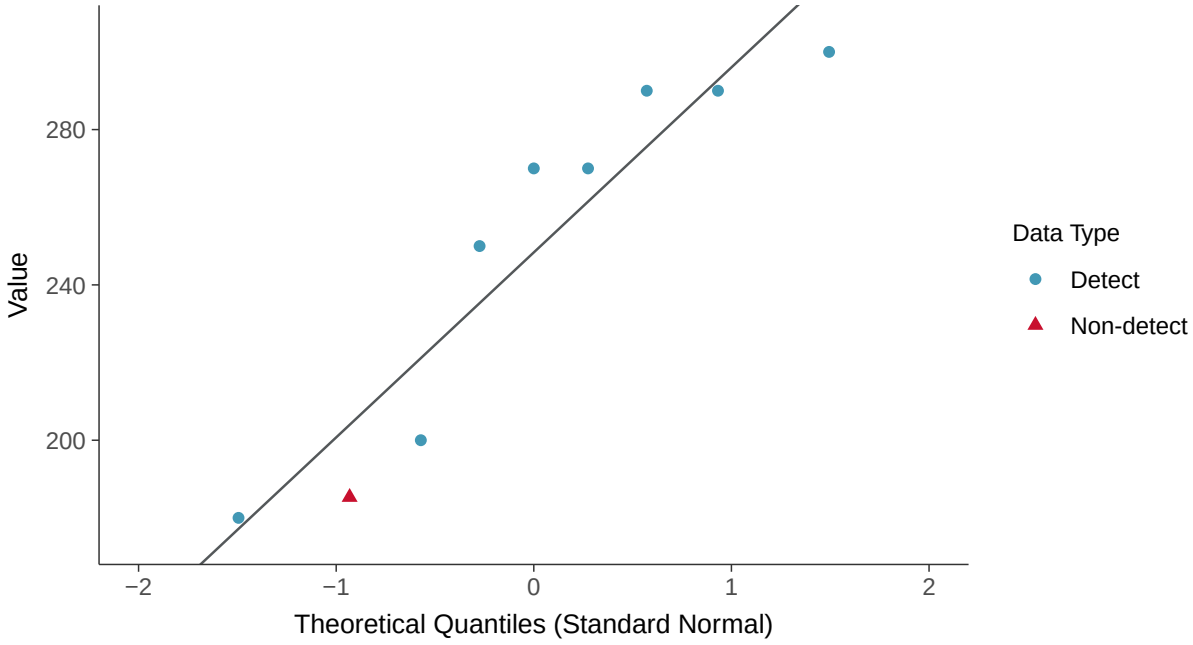
Boxplot by Season

Fluoride, MW-15014R (ug/L)



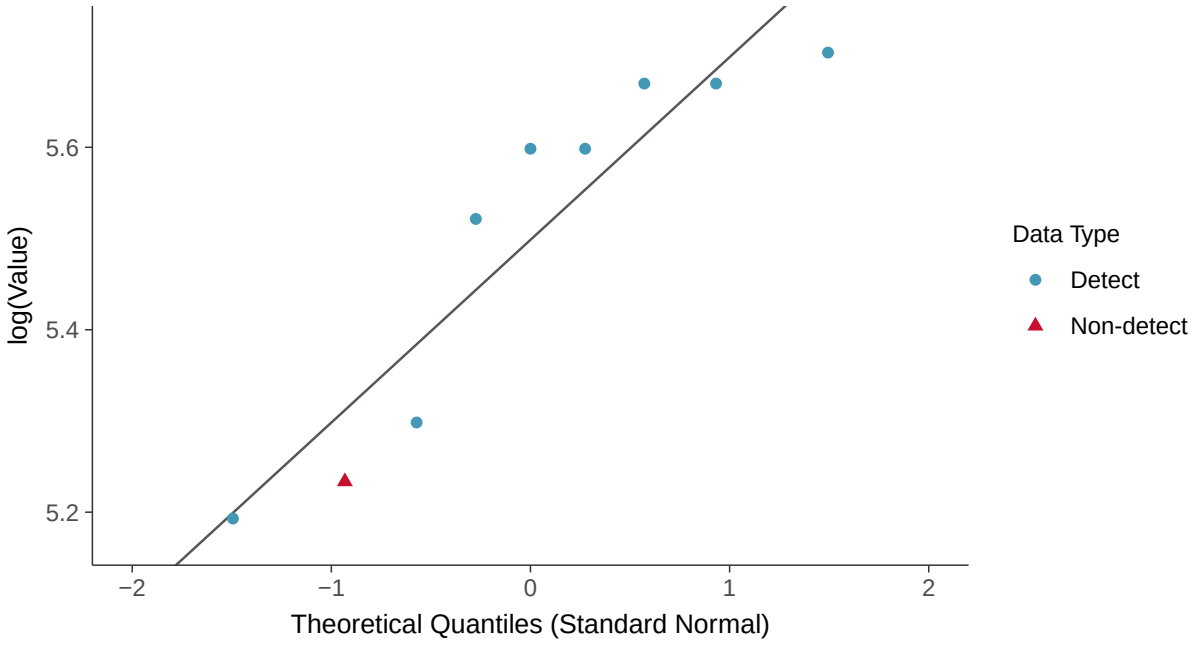
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15014R (ug/L)



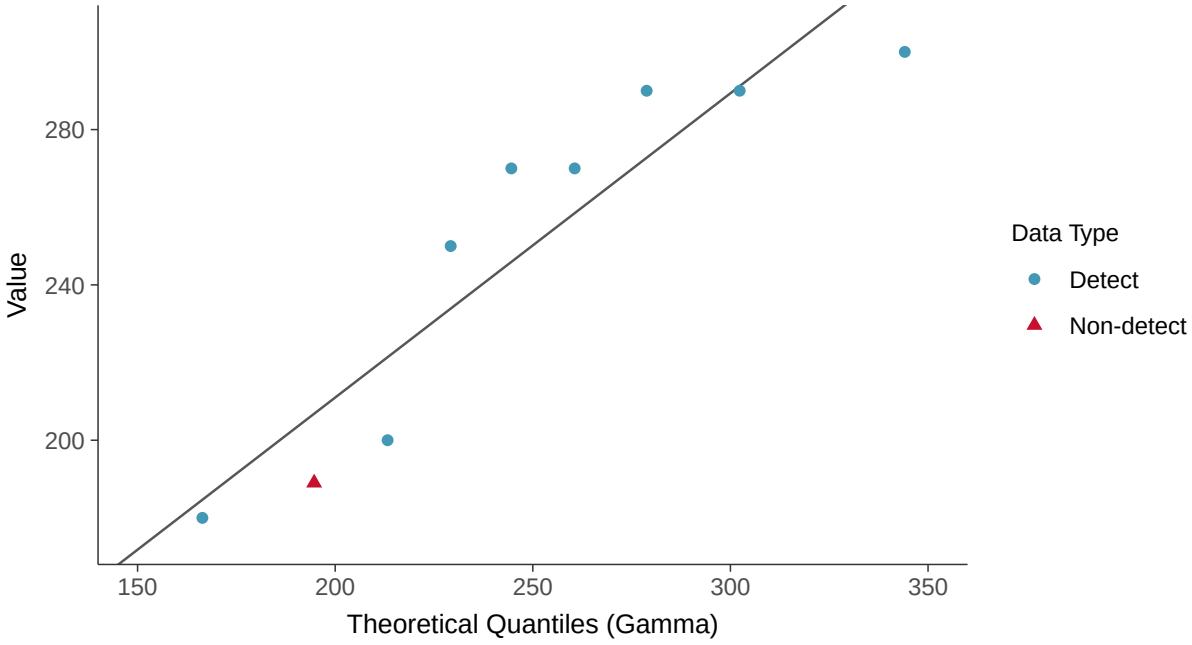
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15014R (ug/L)



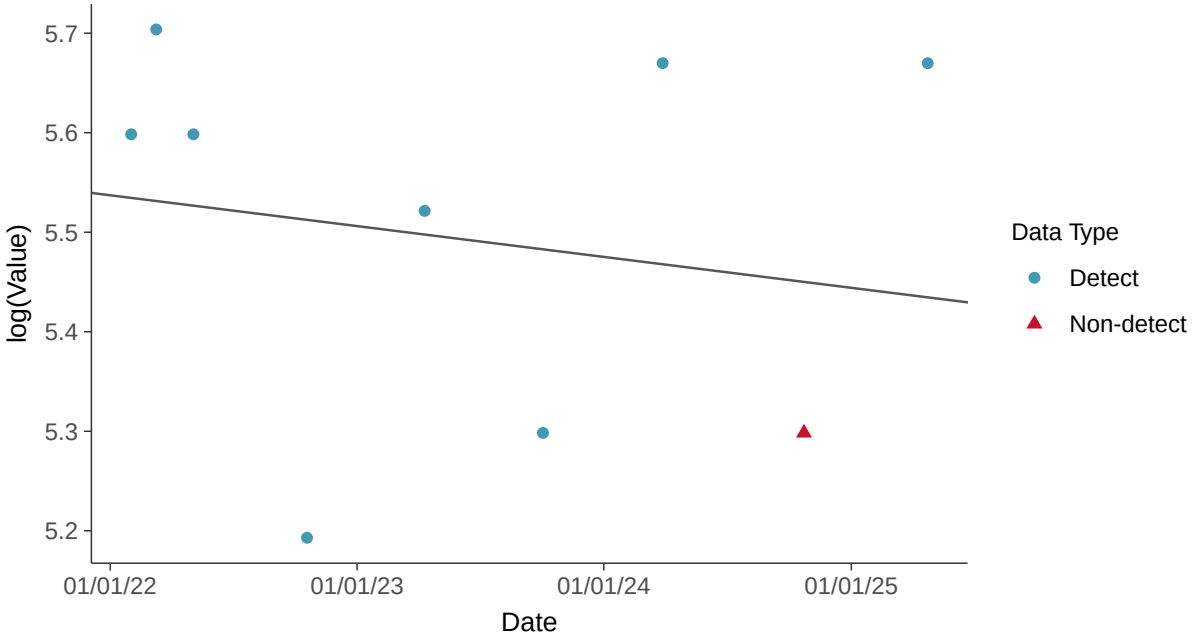
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15014R (ug/L)



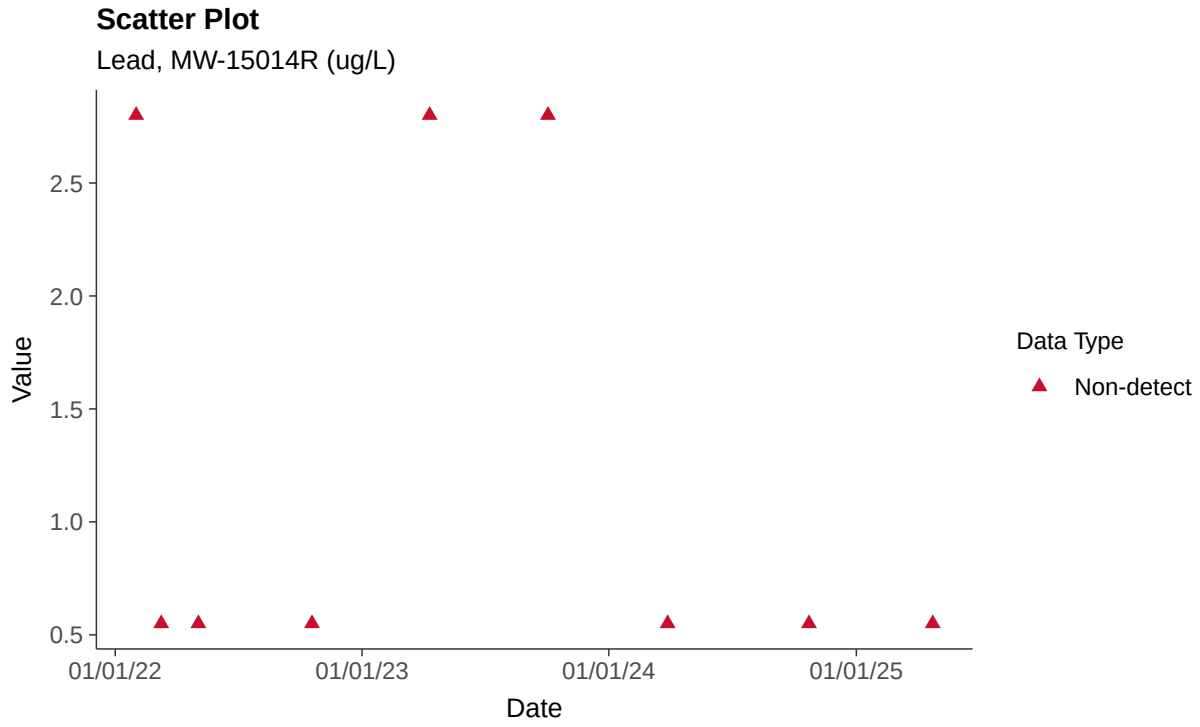
Trend Regression: Lognormal MLE

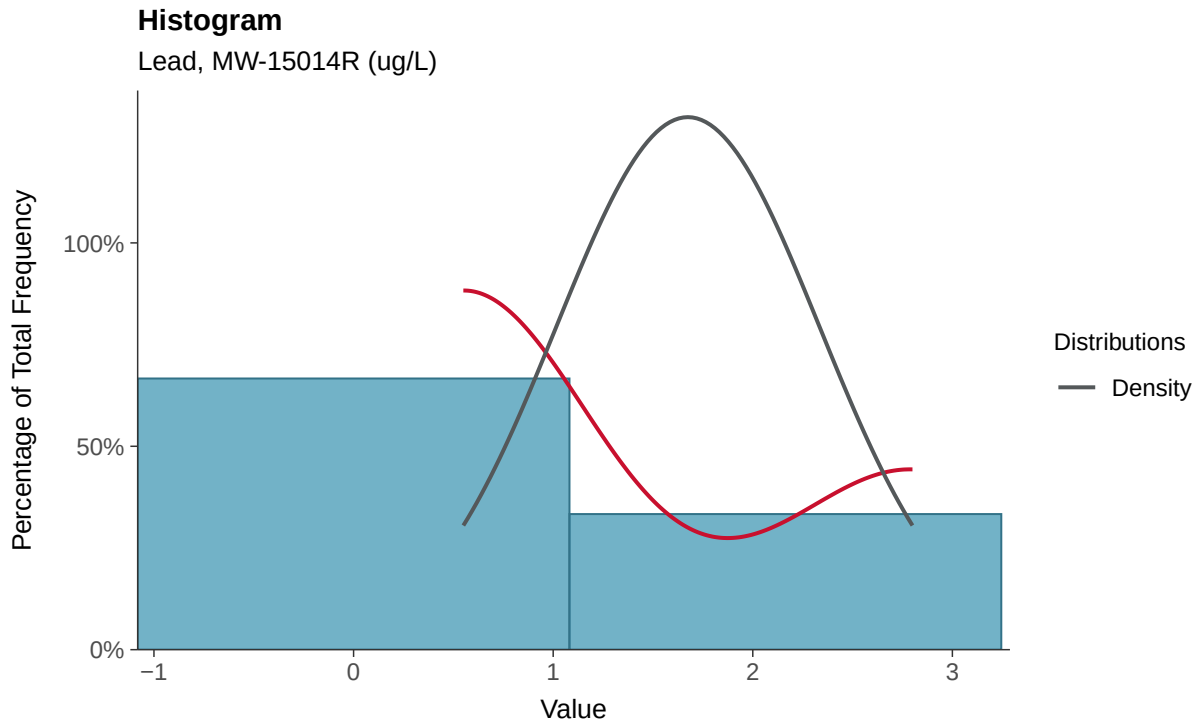
Fluoride, MW-15014R (ug/L)



Appendix IV: Lead, MW-15014R

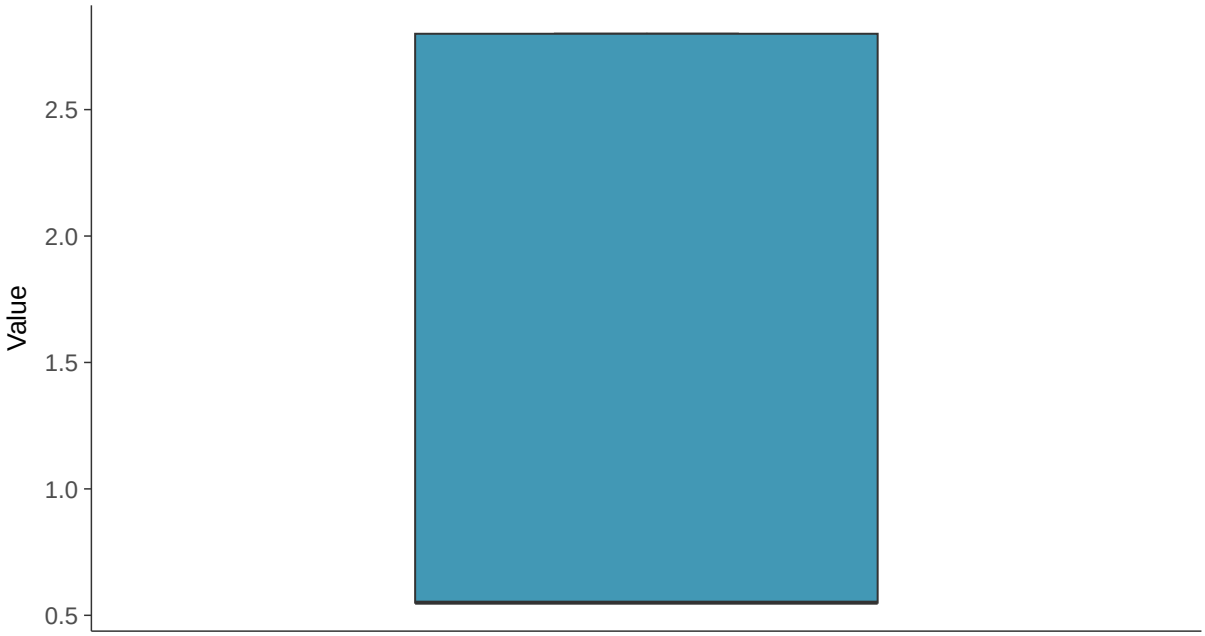
ID: 04_2_116





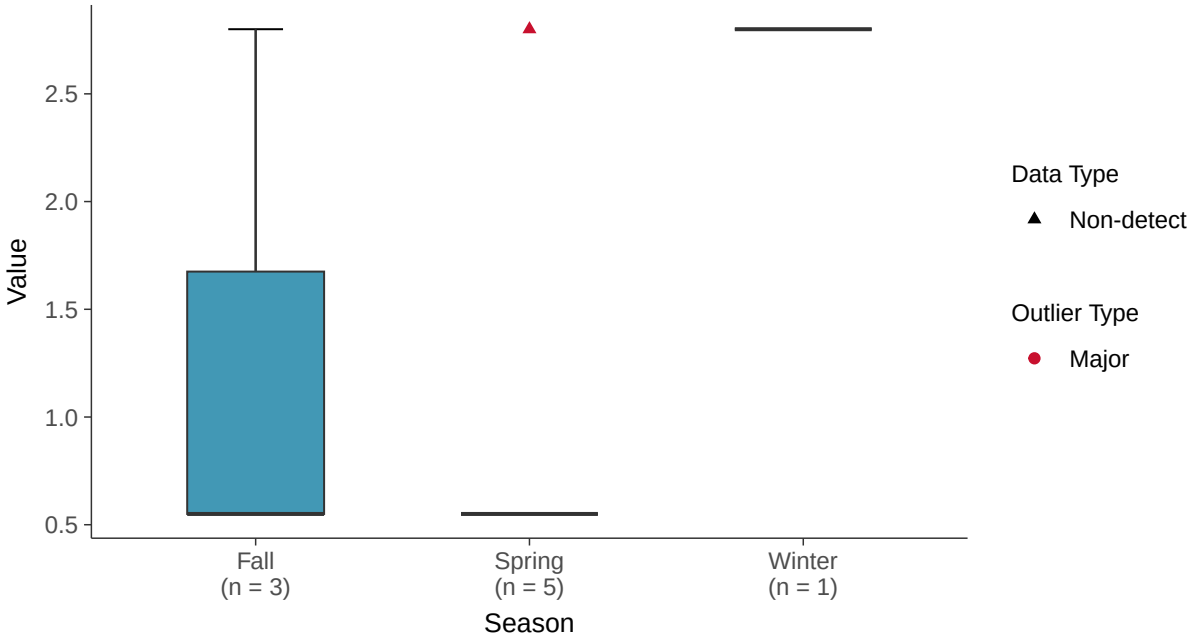
Boxplot

Lead, MW-15014R (ug/L)



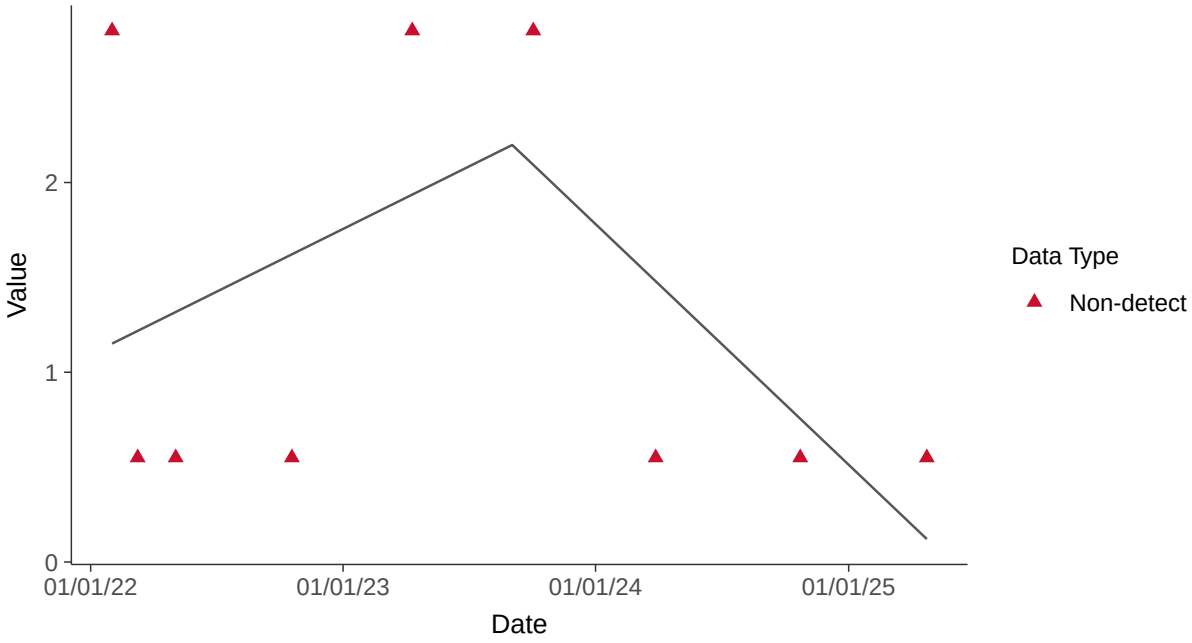
Boxplot by Season

Lead, MW-15014R (ug/L)



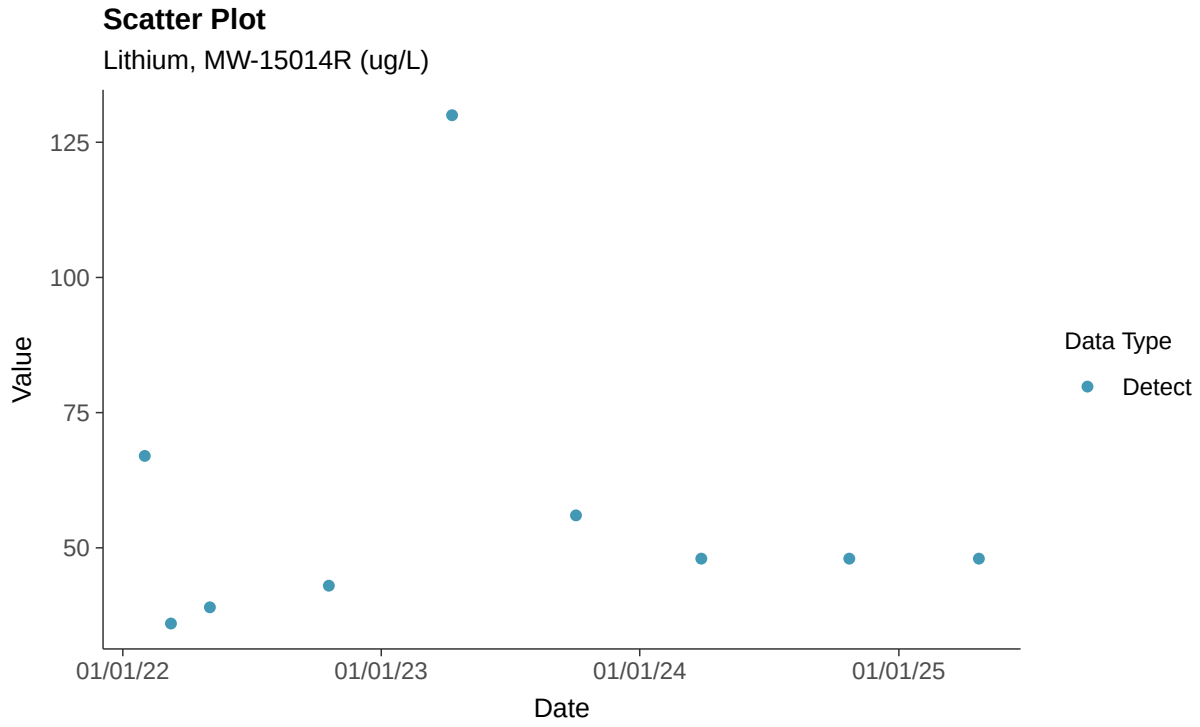
Trend Regression: Piecewise Linear-Linear

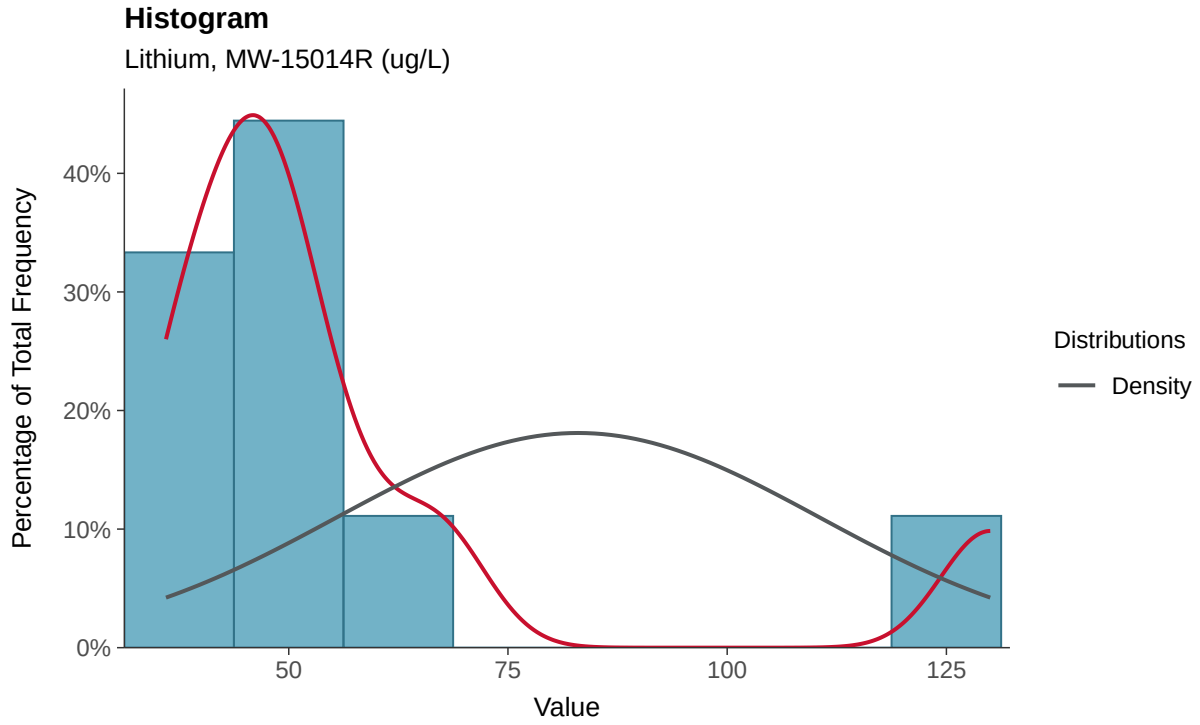
Lead, MW-15014R (ug/L)



Appendix IV: Lithium, MW-15014R

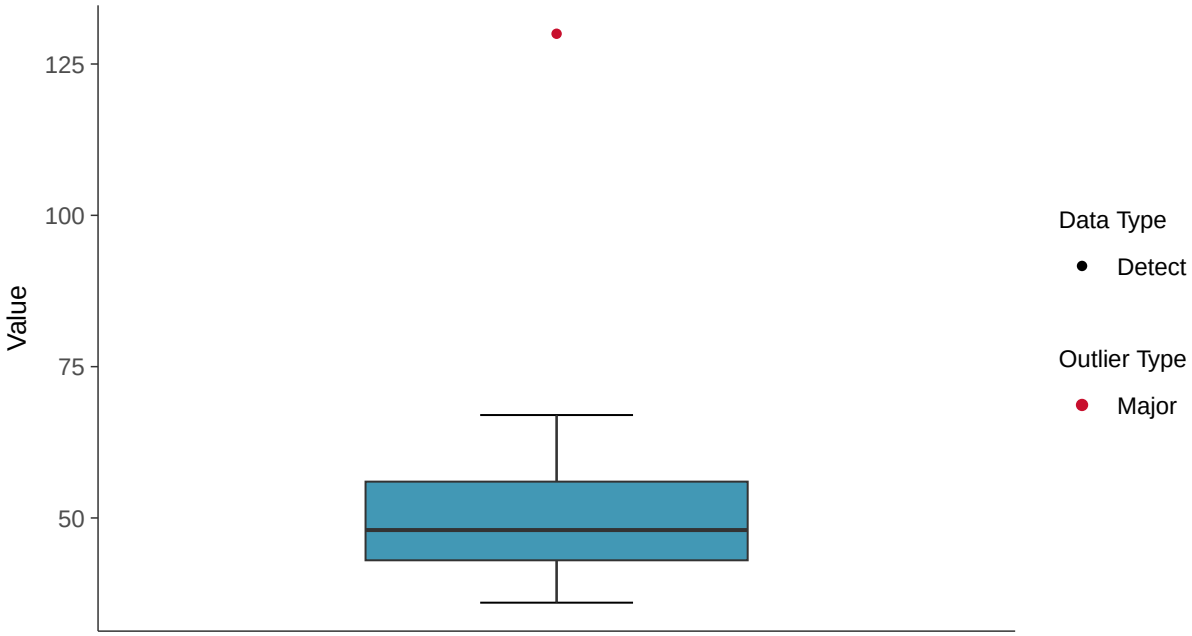
ID: 04_2_117





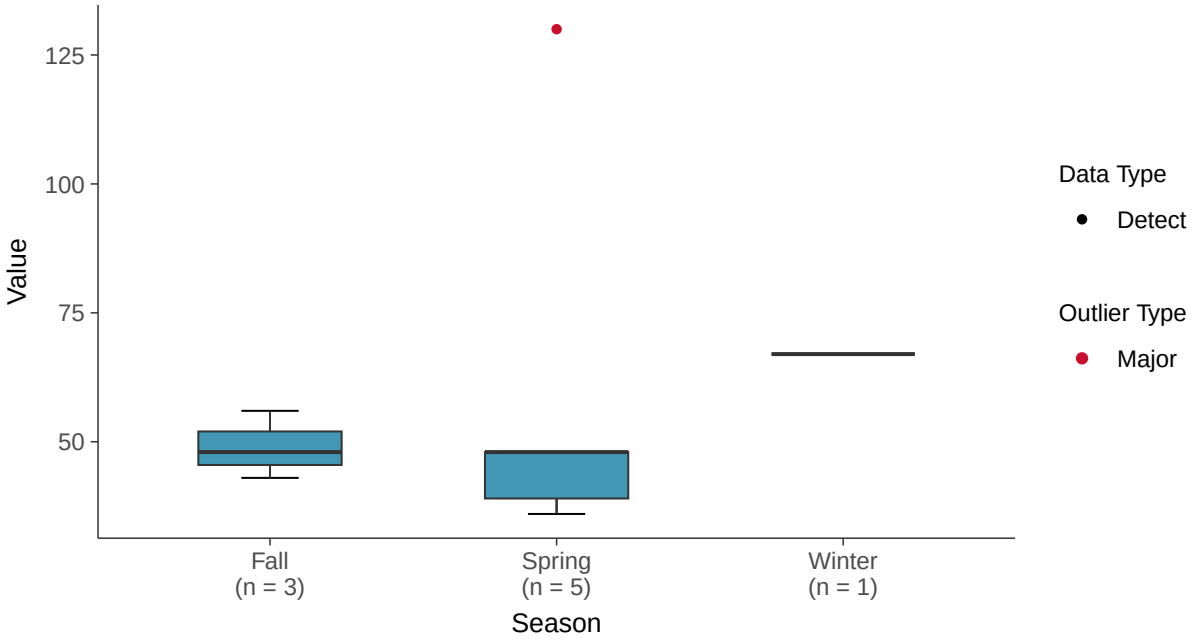
Boxplot

Lithium, MW-15014R (ug/L)



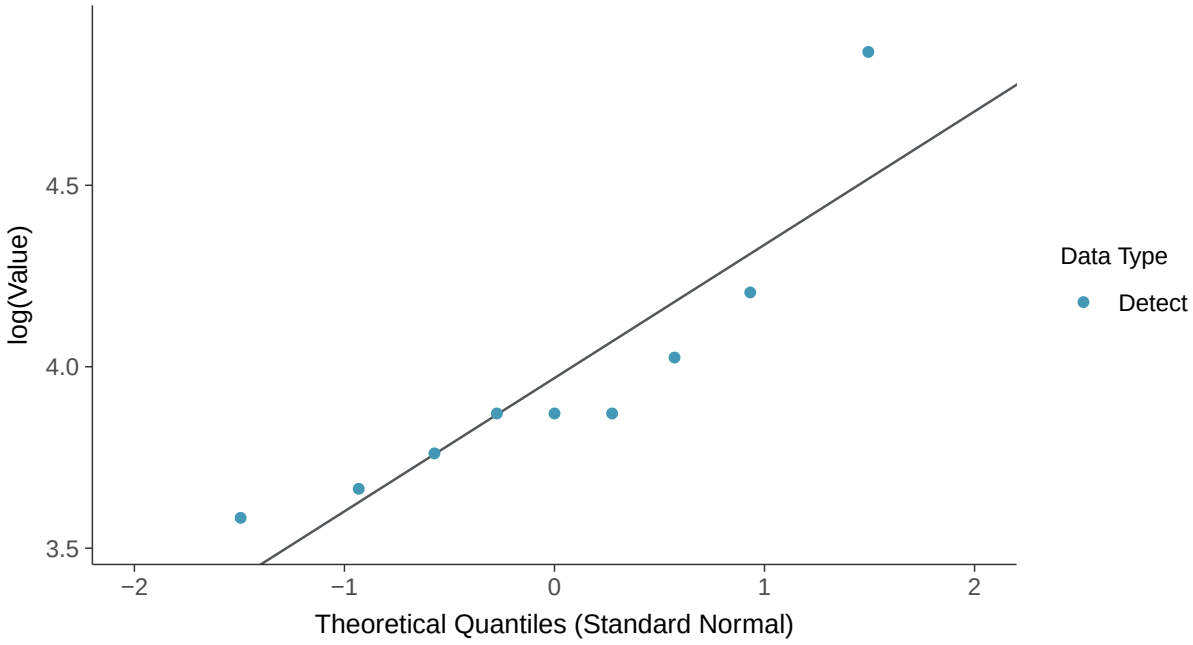
Boxplot by Season

Lithium, MW-15014R (ug/L)



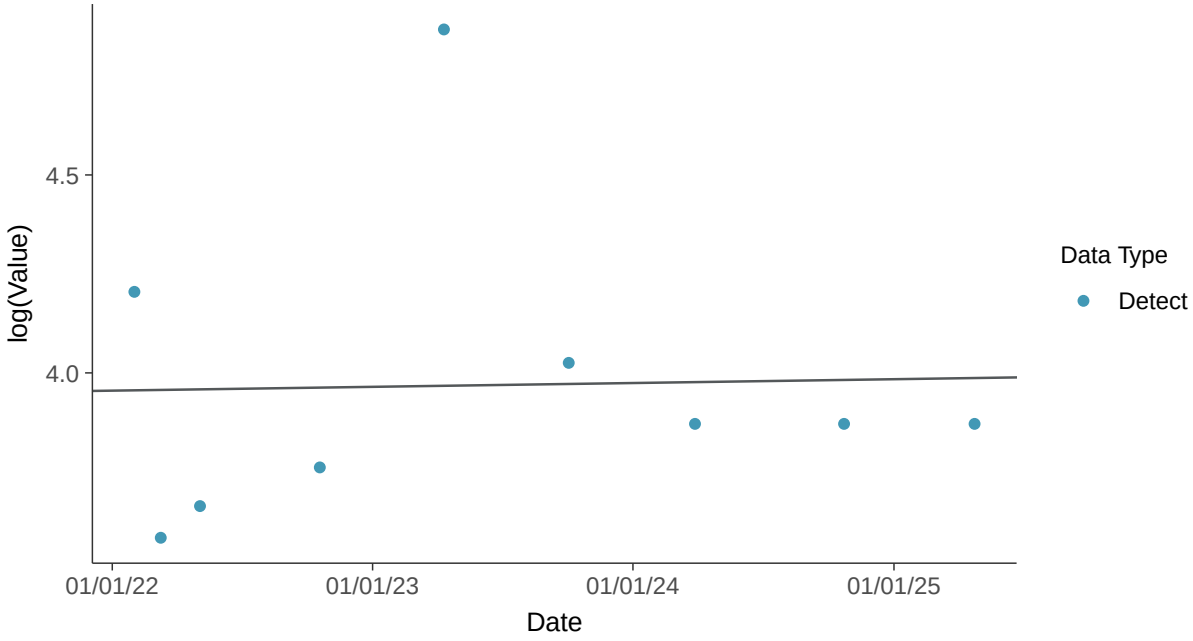
Lognormal Q-Q plot

Lithium, MW-15014R (ug/L)



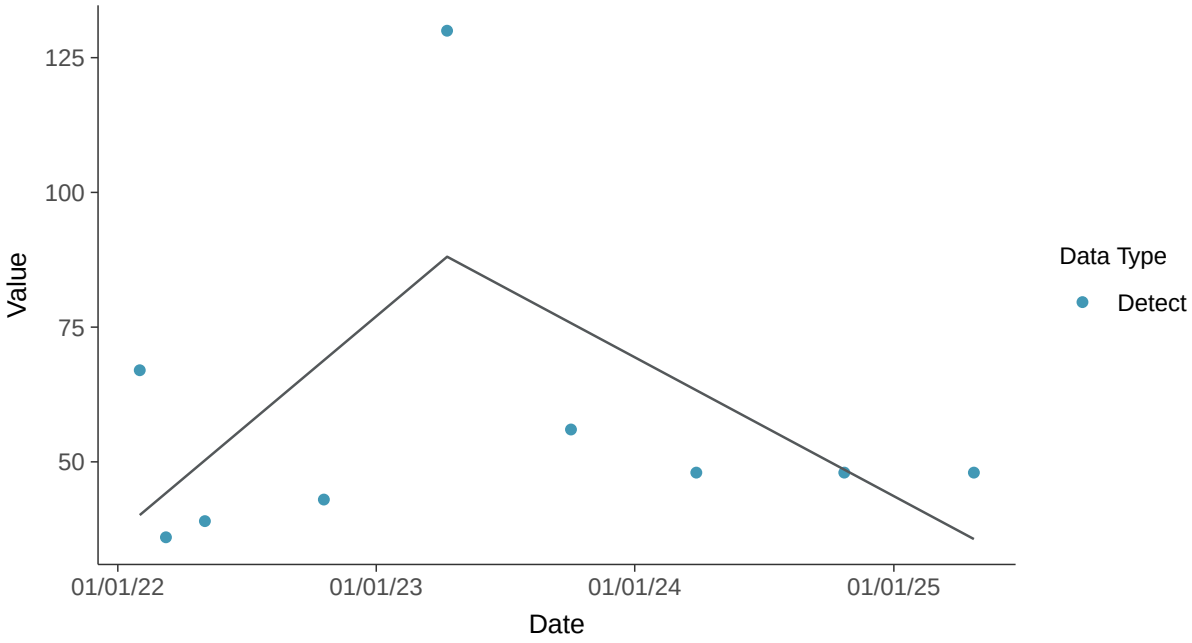
Trend Regression: Lognormal MLE

Lithium, MW-15014R (ug/L)



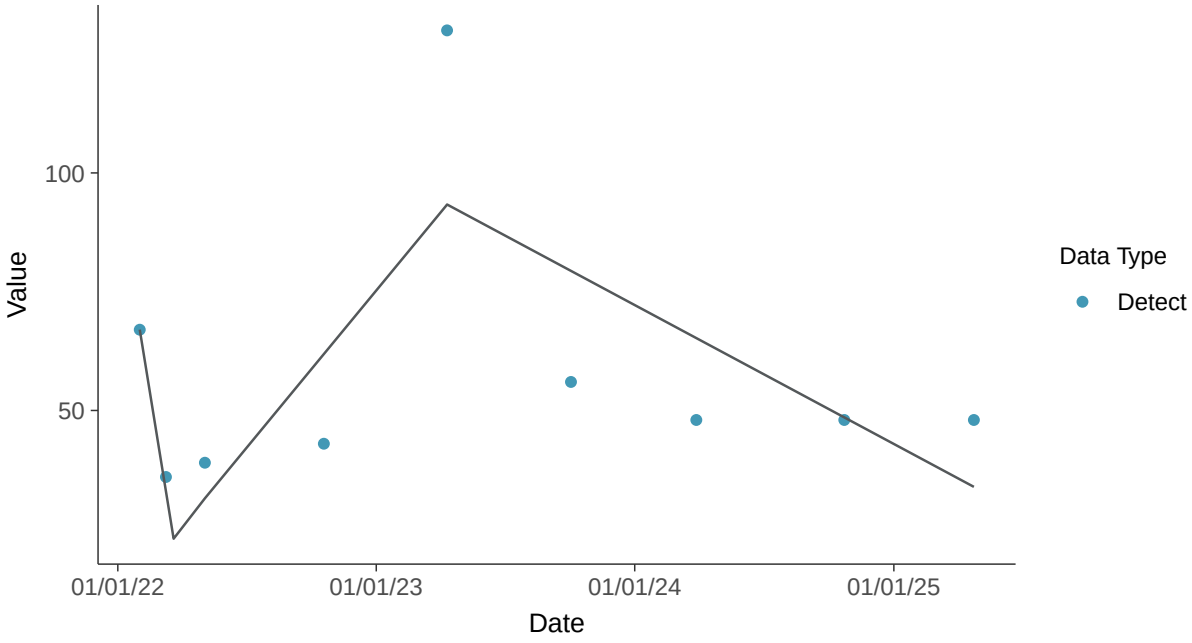
Trend Regression: Piecewise Linear-Linear

Lithium, MW-15014R (ug/L)



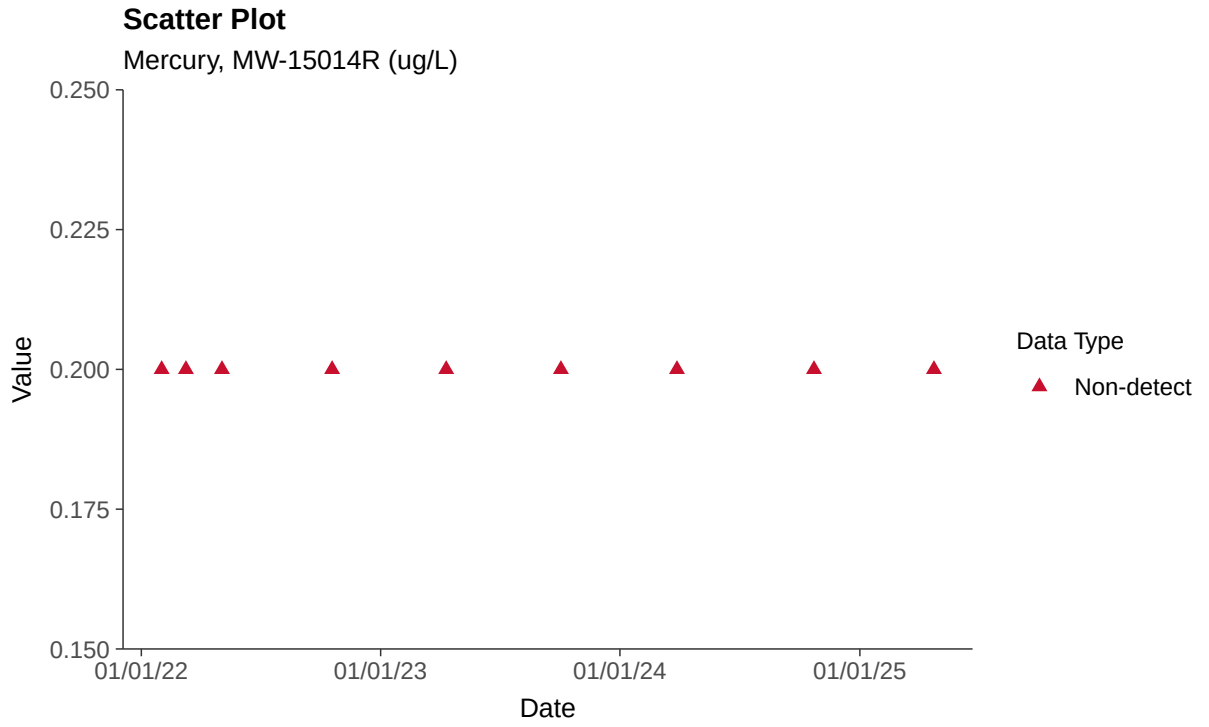
Trend Regression: Piecewise Linear-Linear-Linear

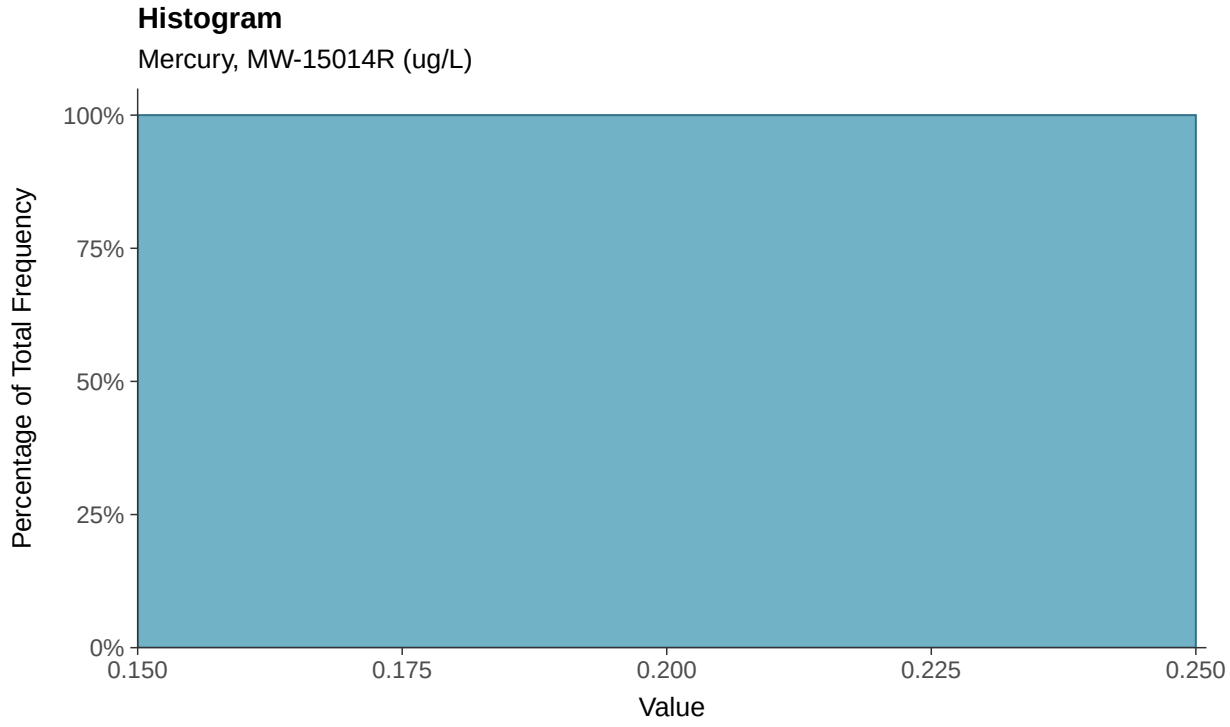
Lithium, MW-15014R (ug/L)



Appendix IV: Mercury, MW-15014R

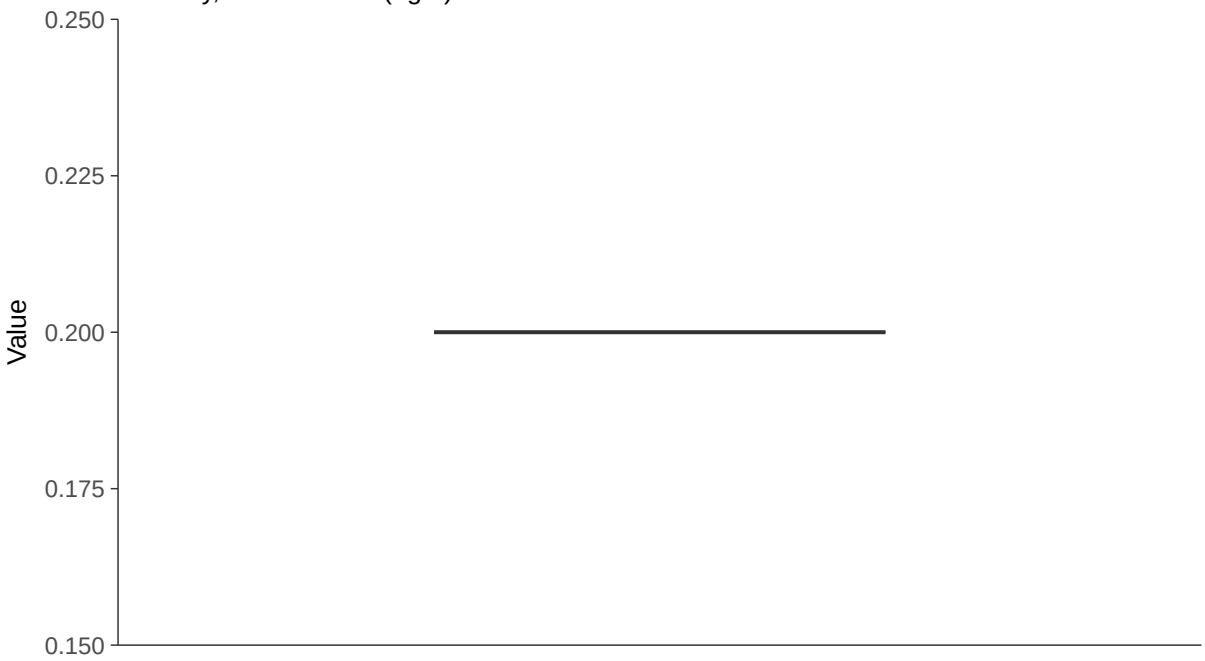
ID: 04_2_118





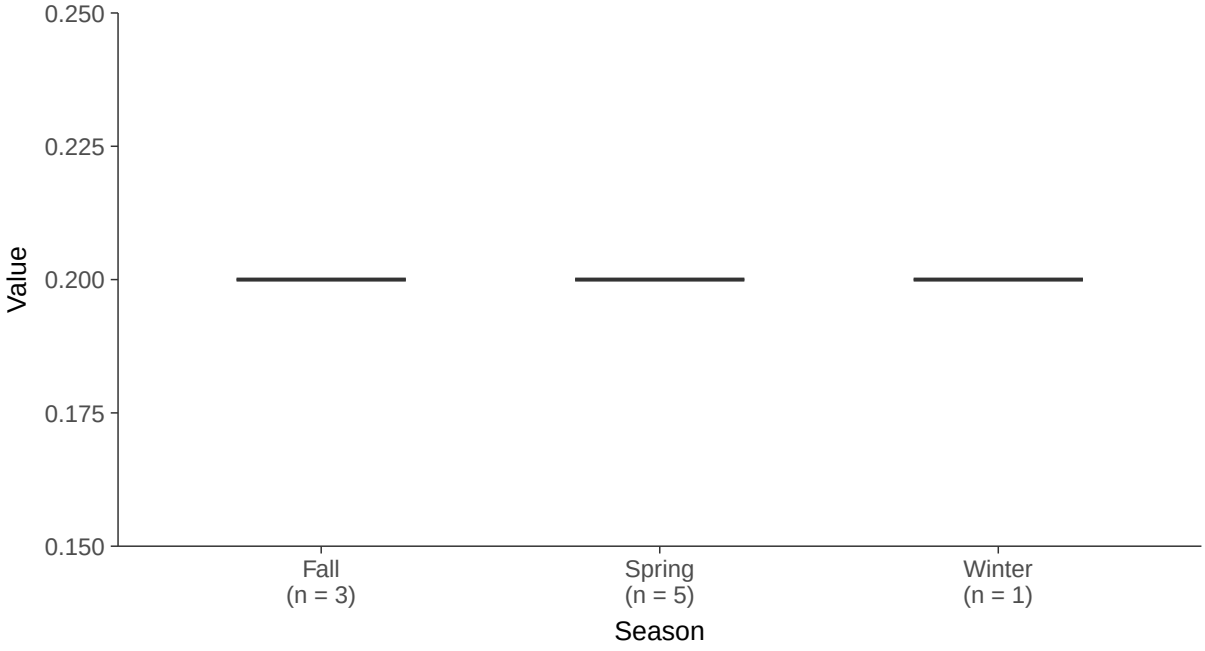
Boxplot

Mercury, MW-15014R (ug/L)



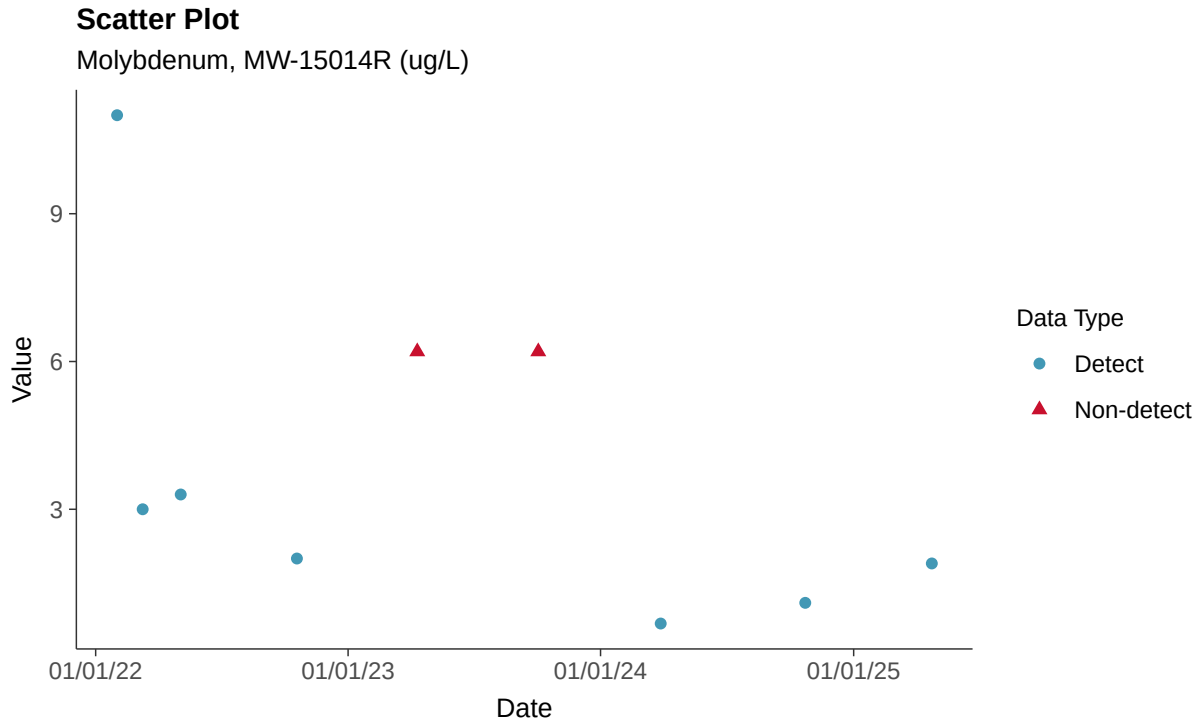
Boxplot by Season

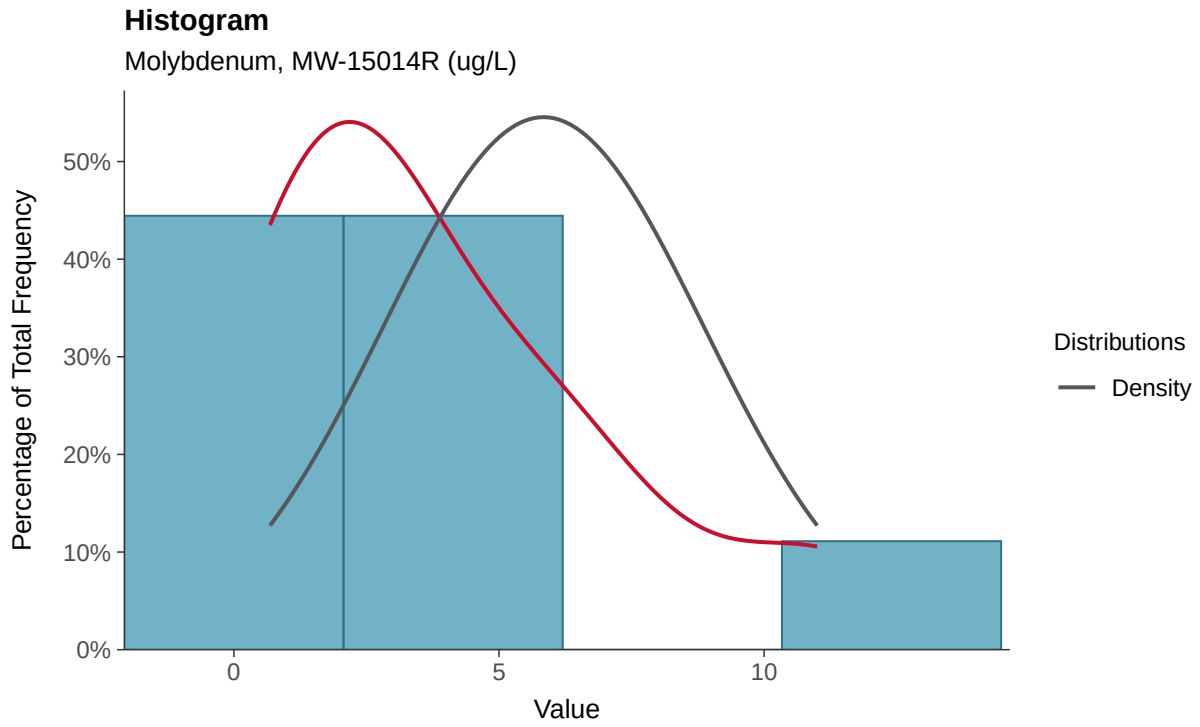
Mercury, MW-15014R (ug/L)



Appendix IV: Molybdenum, MW-15014R

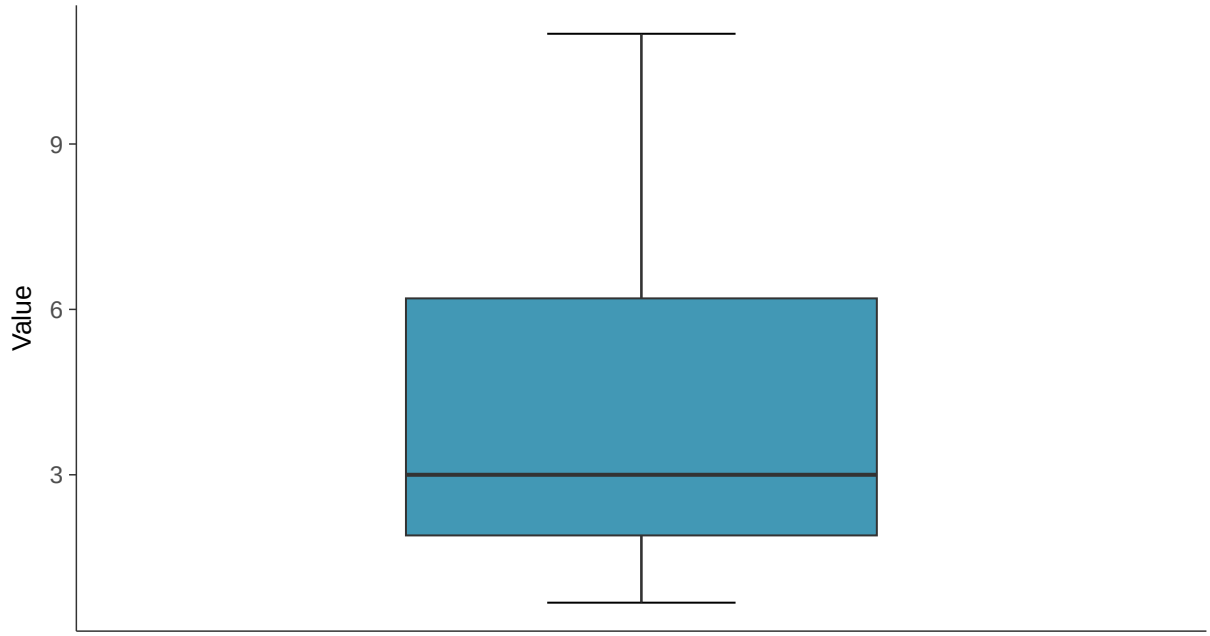
ID: 04_2_119





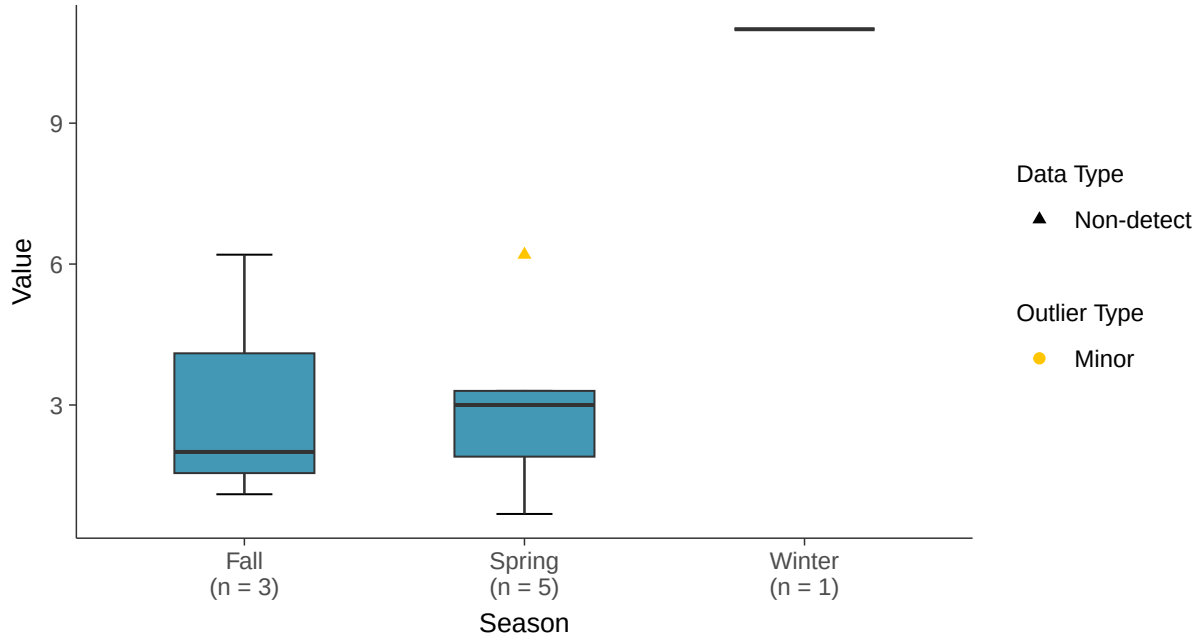
Boxplot

Molybdenum, MW-15014R (ug/L)



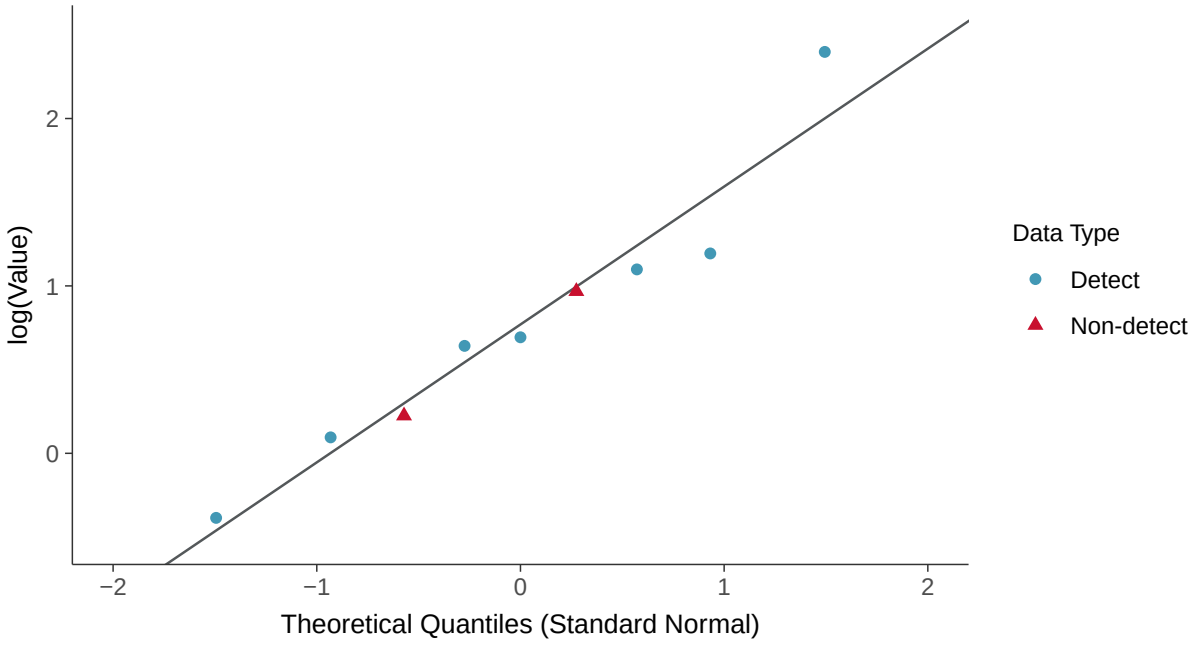
Boxplot by Season

Molybdenum, MW-15014R (ug/L)



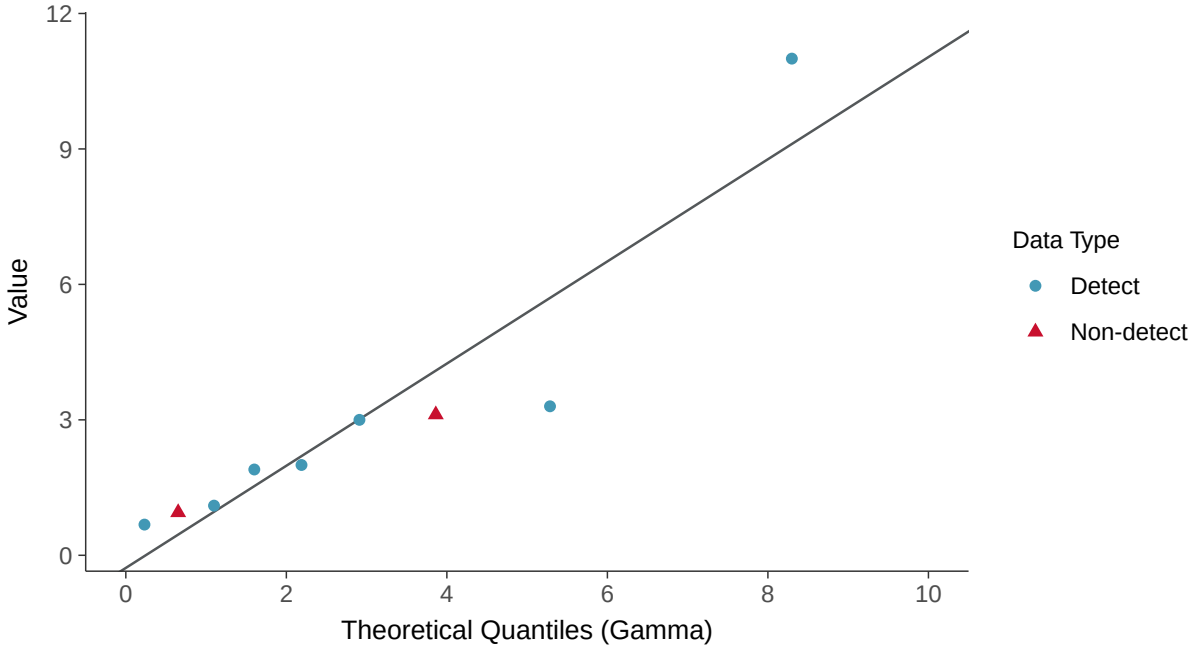
Lognormal Q-Q plot using ROS Imputed Estimates

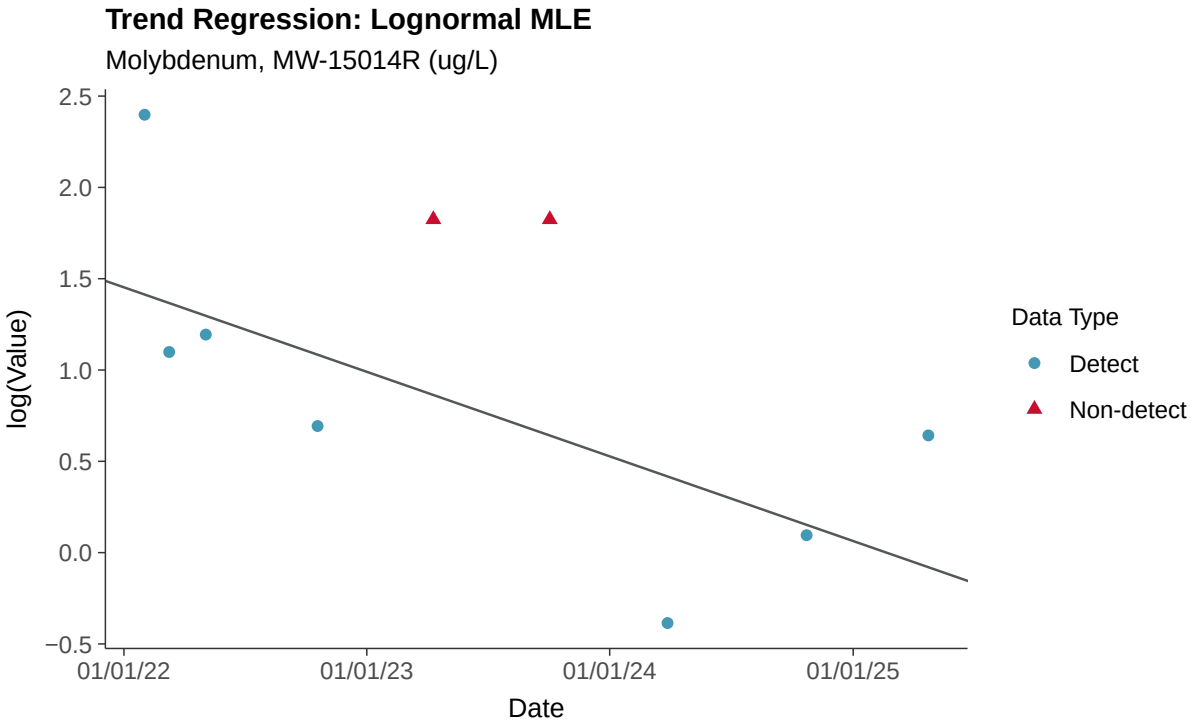
Molybdenum, MW-15014R (ug/L)



Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15014R (ug/L)



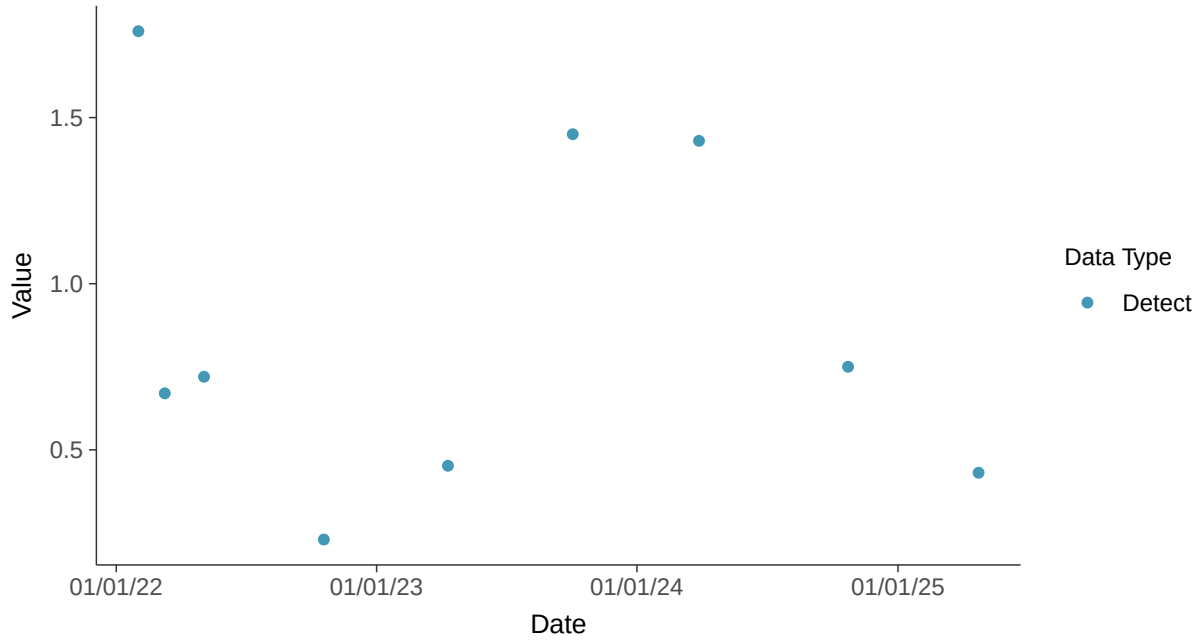

Trend Regression: Lognormal MLE
Molybdenum, MW-15014R (ug/L)
log(Value)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
01/01/22
01/01/23
01/01/24
01/01/25
Date
Data Type
Detect
Non-detect

Appendix IV: Radium-226+228, MW-15014R

ID: 04_2_125

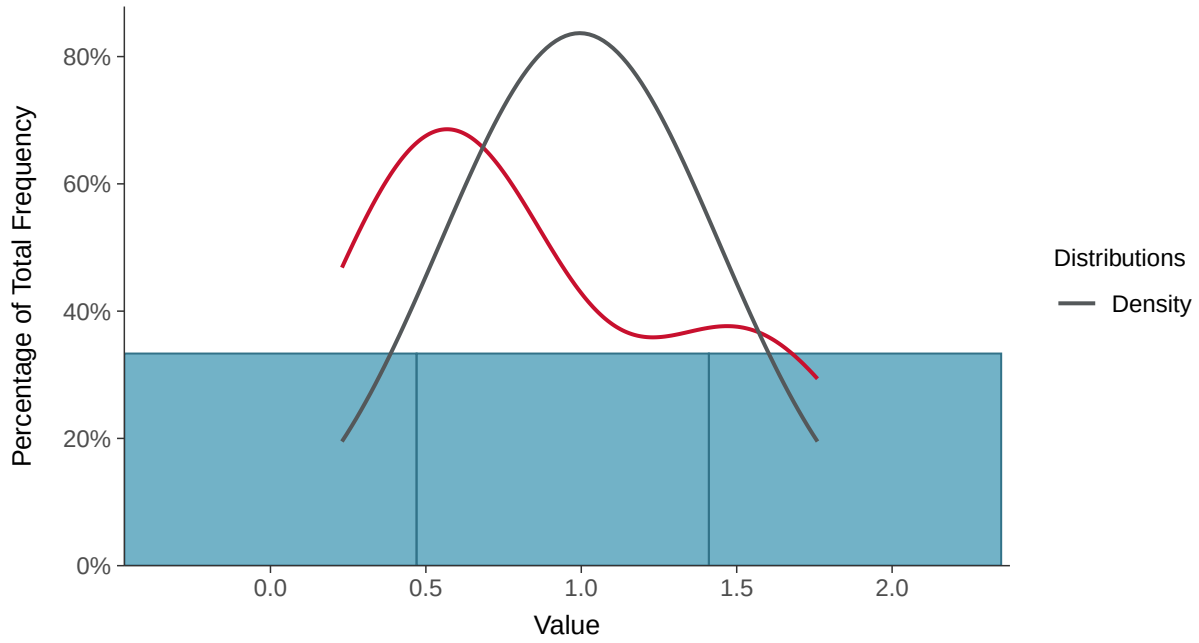
Scatter Plot

Radium-226+228, MW-15014R (pCi/L)



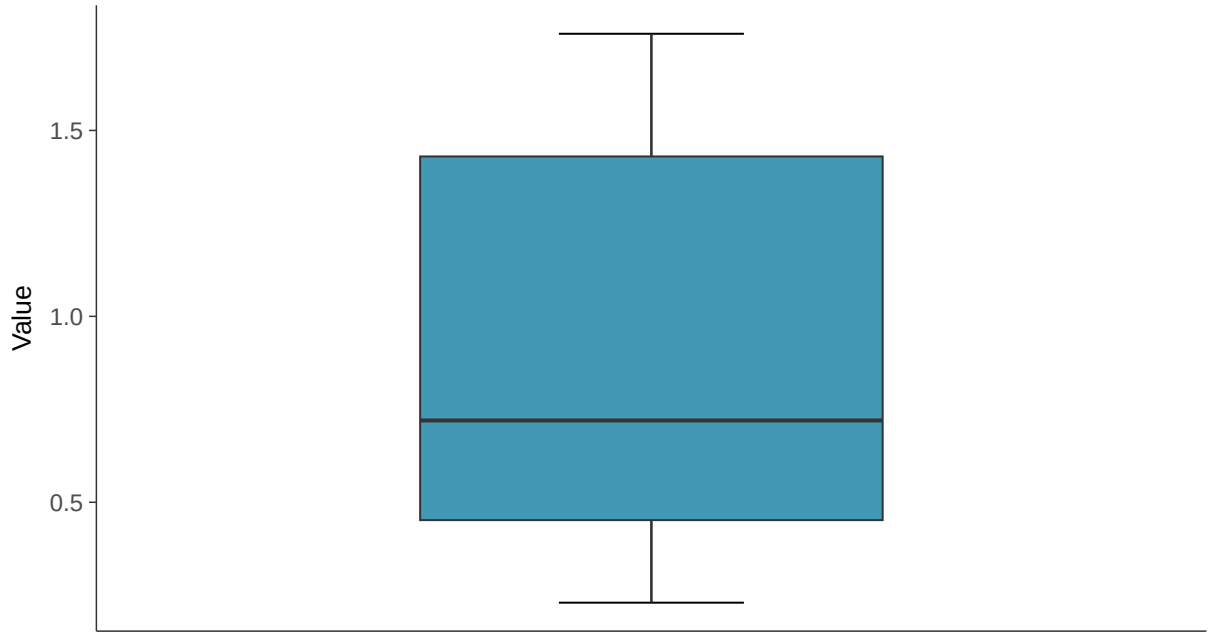
Histogram

Radium-226+228, MW-15014R (pCi/L)



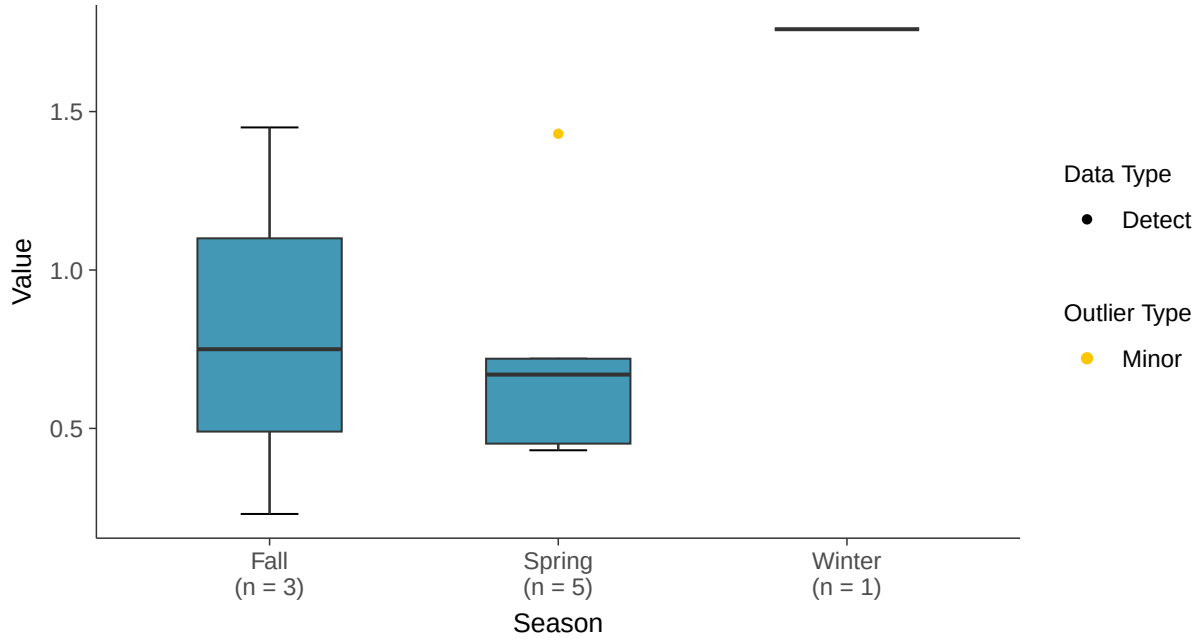
Boxplot

Radium-226+228, MW-15014R (pCi/L)



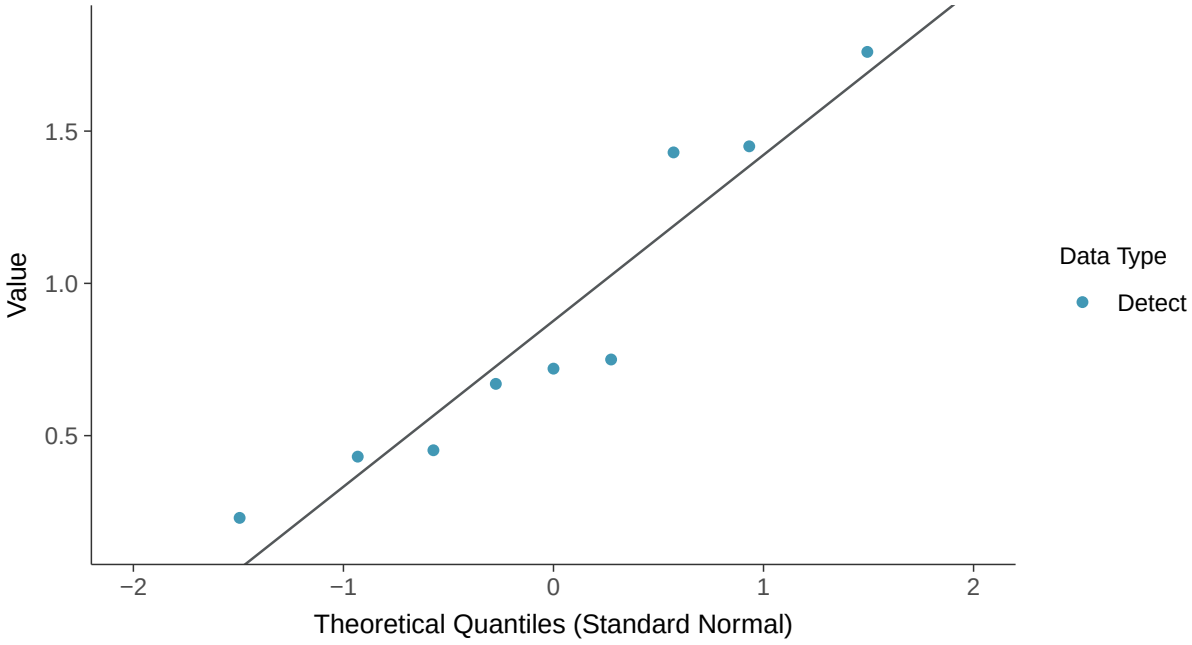
Boxplot by Season

Radium-226+228, MW-15014R (pCi/L)



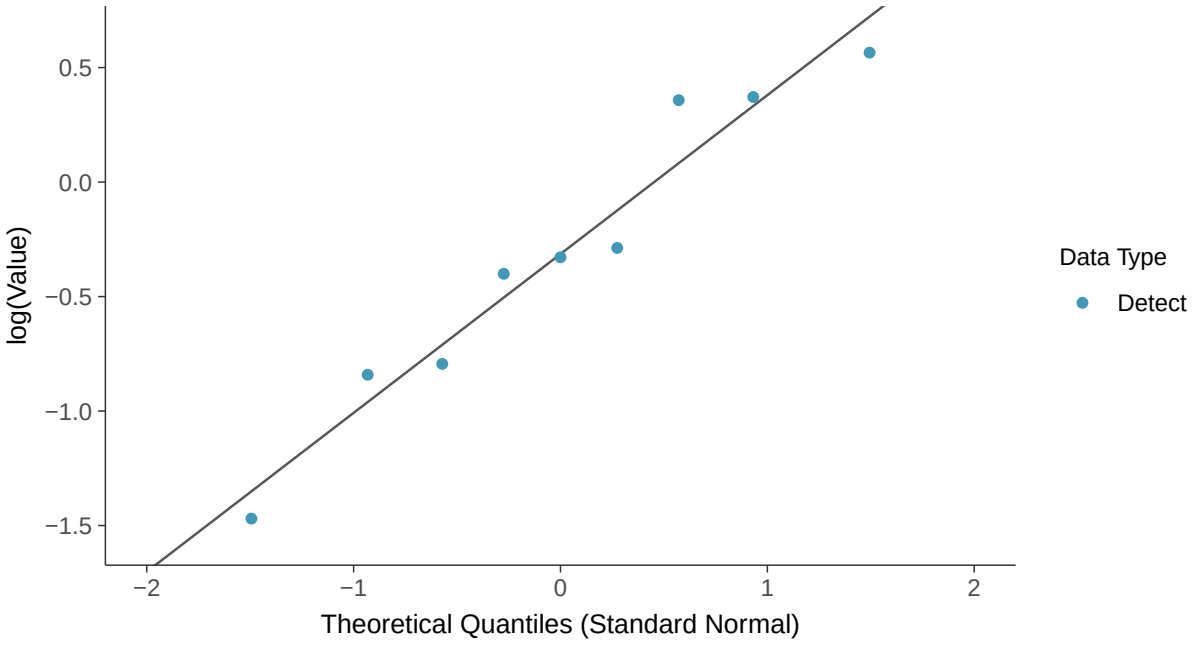
Normal Q-Q plot

Radium-226+228, MW-15014R (pCi/L)



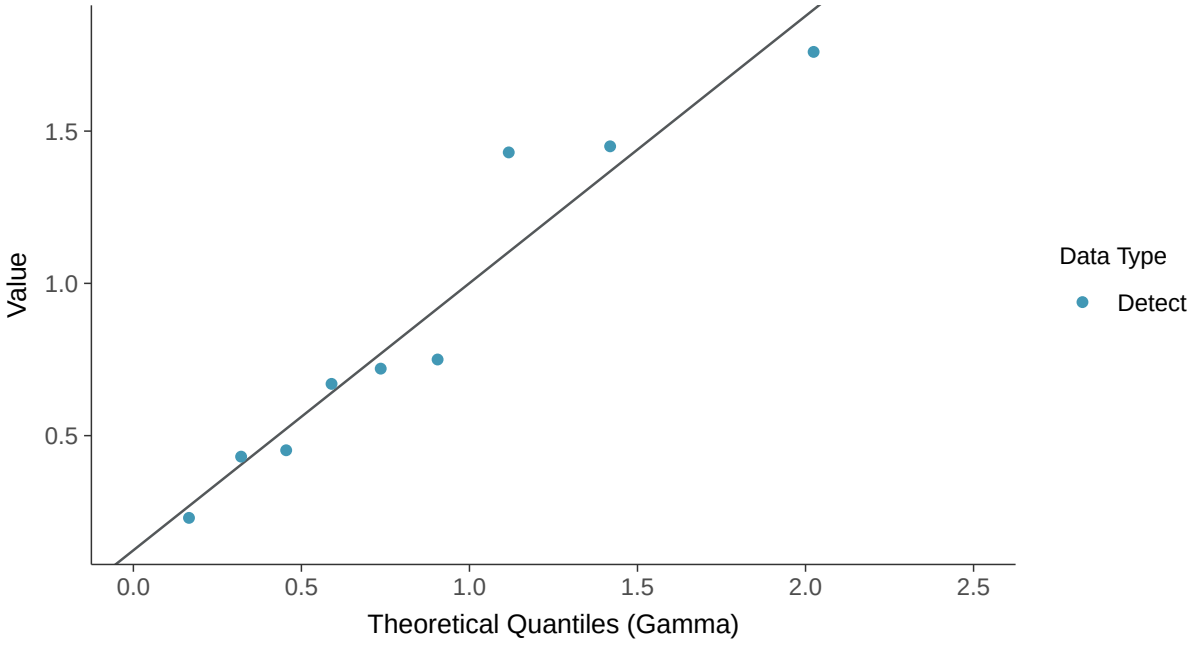
Lognormal Q-Q plot

Radium-226+228, MW-15014R (pCi/L)



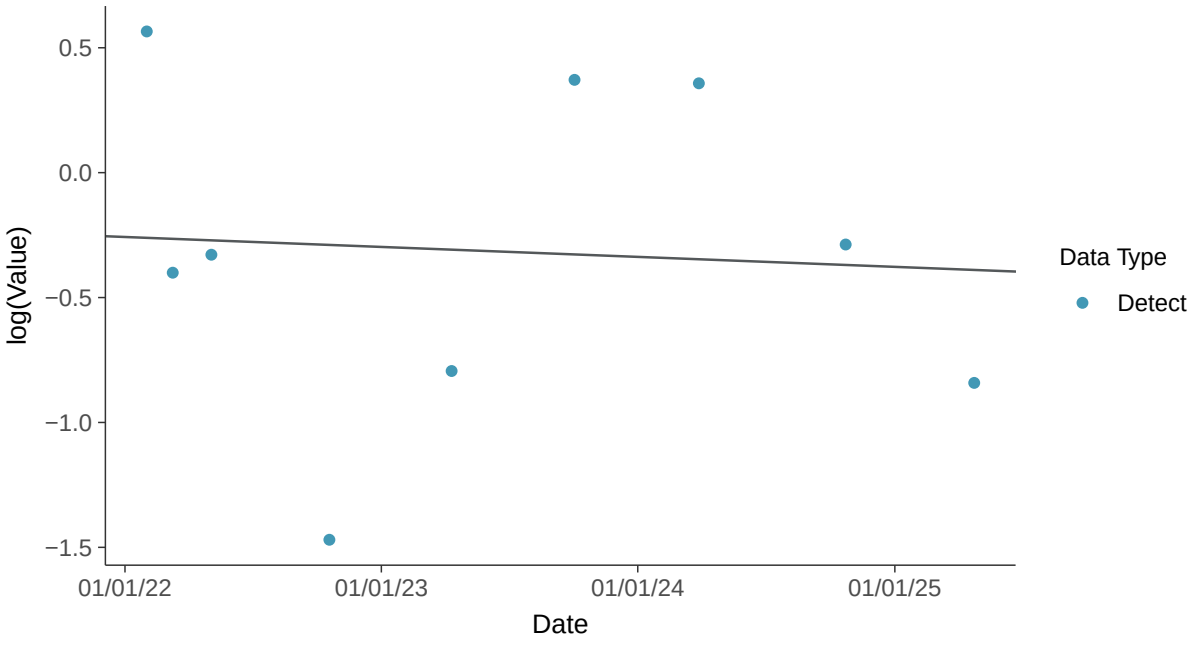
Gamma Q-Q plot

Radium-226+228, MW-15014R (pCi/L)



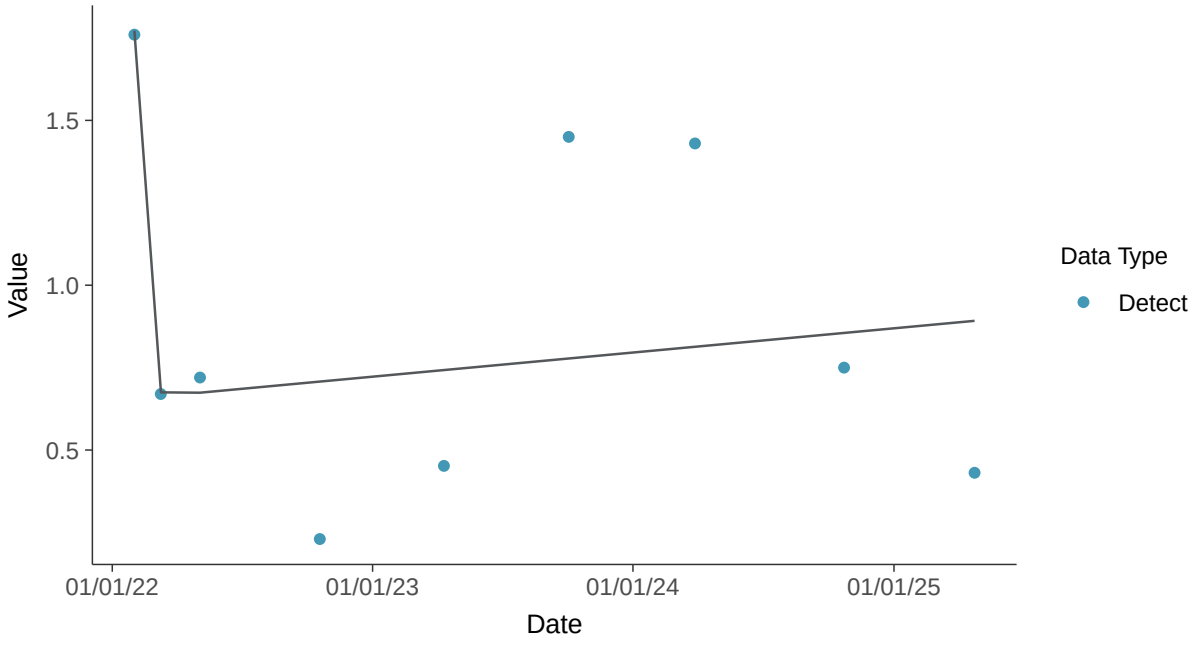
Trend Regression: Lognormal MLE

Radium-226+228, MW-15014R (pCi/L)



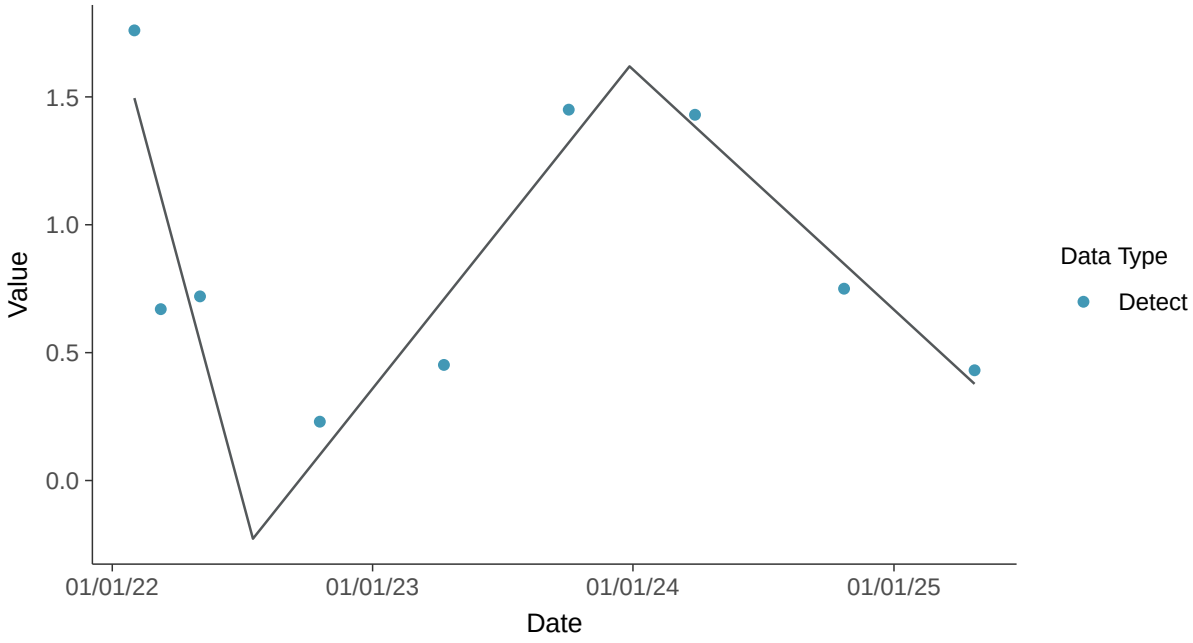
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-15014R (pCi/L)



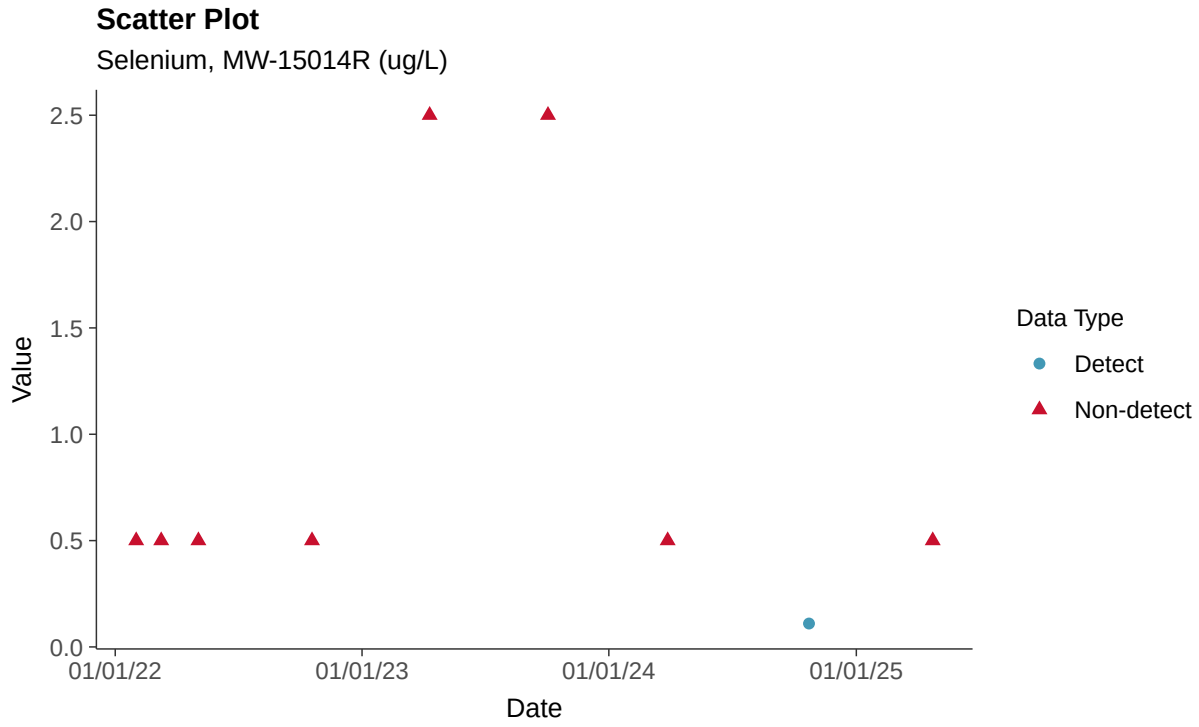
Trend Regression: Piecewise Linear-Linear-Linear

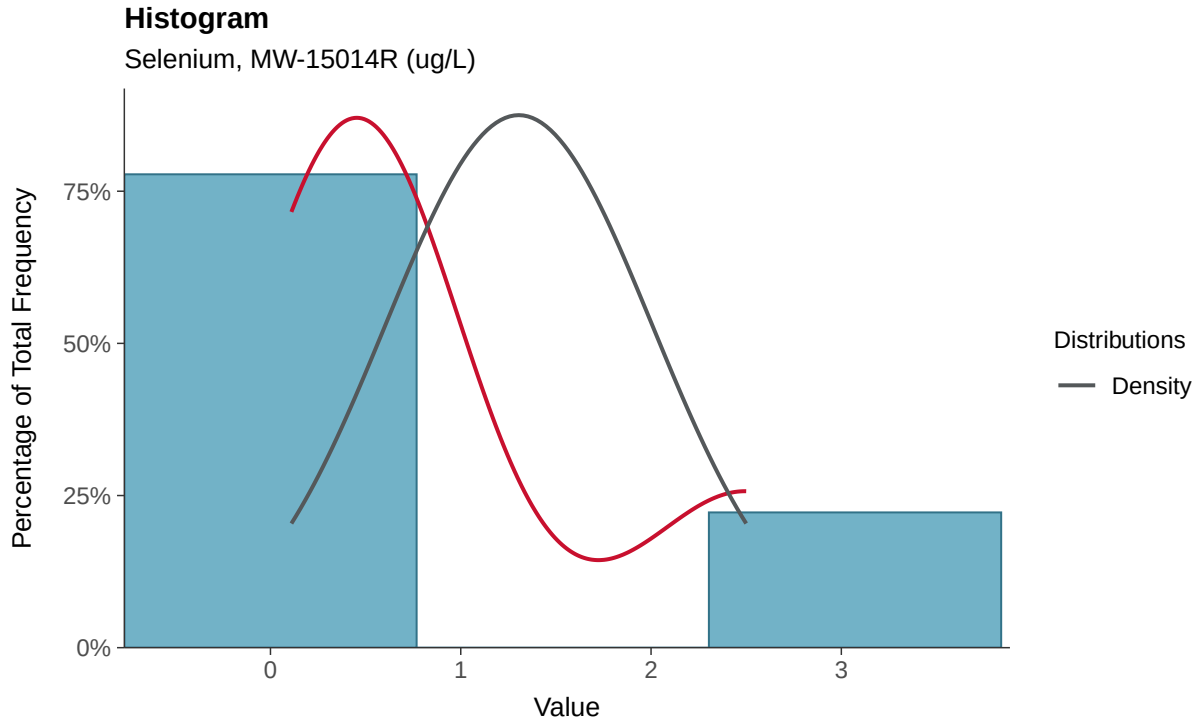
Radium-226+228, MW-15014R (pCi/L)



Appendix IV: Selenium, MW-15014R

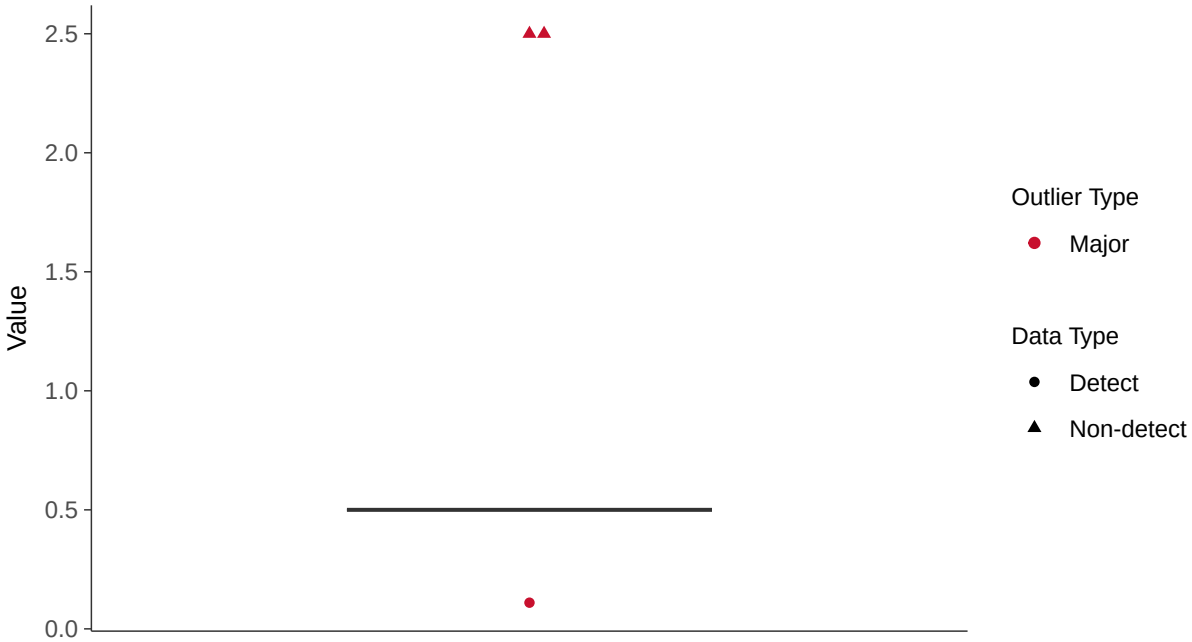
ID: 04_2_127





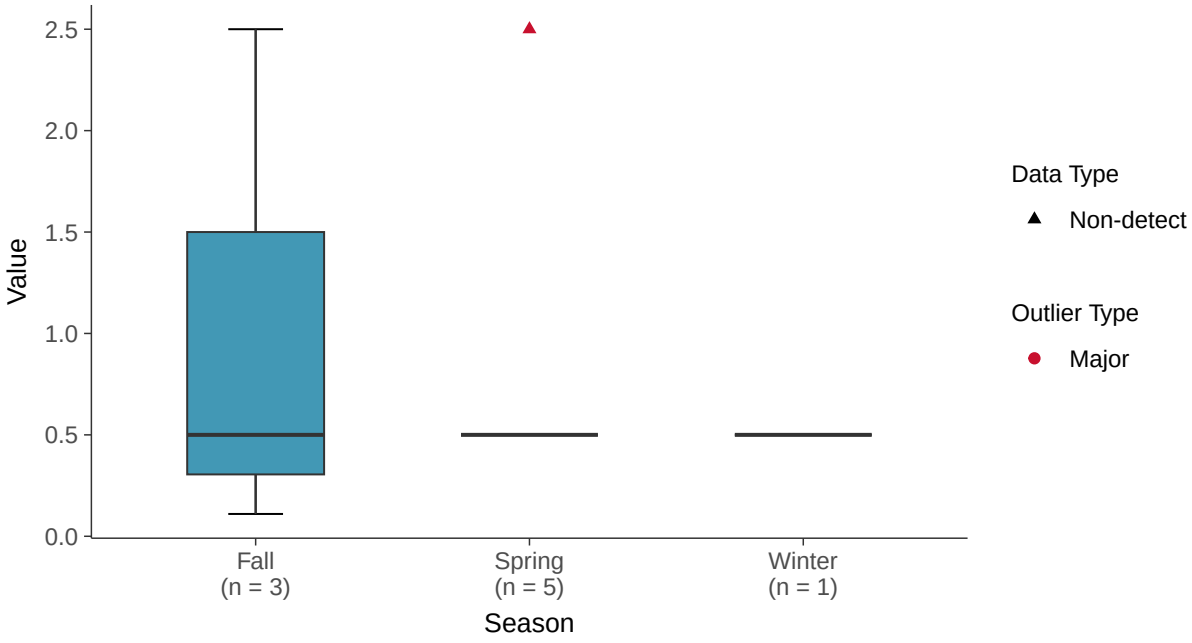
Boxplot

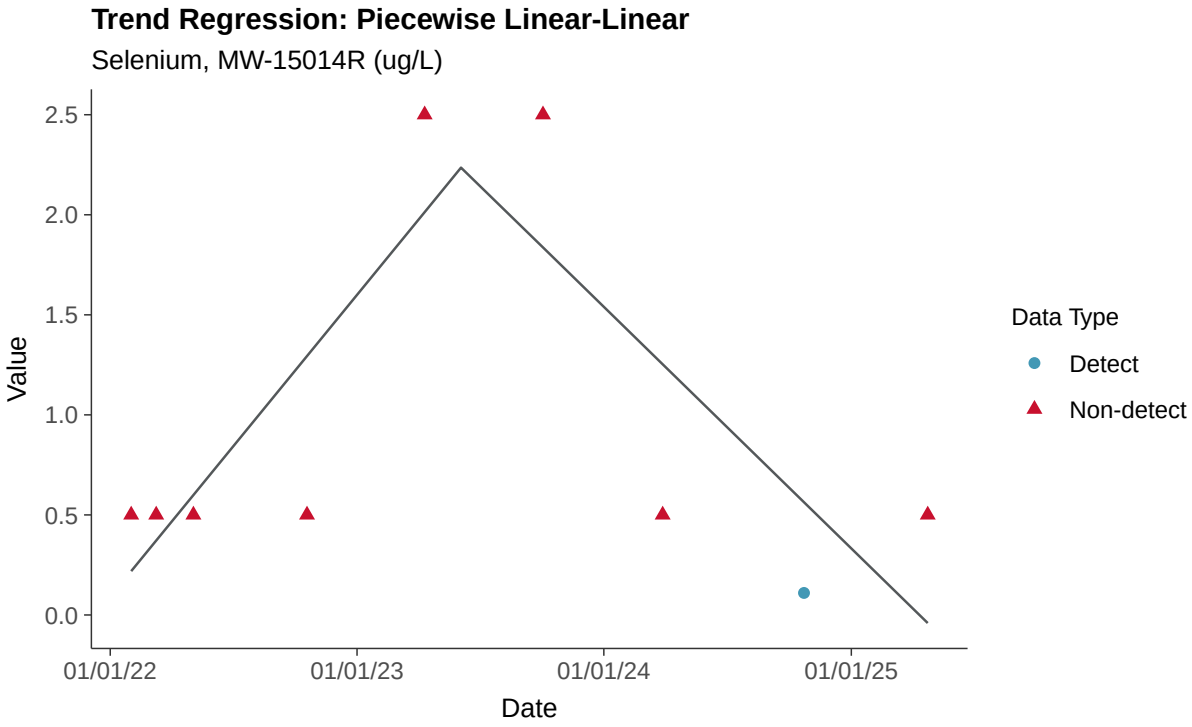
Selenium, MW-15014R (ug/L)



Boxplot by Season

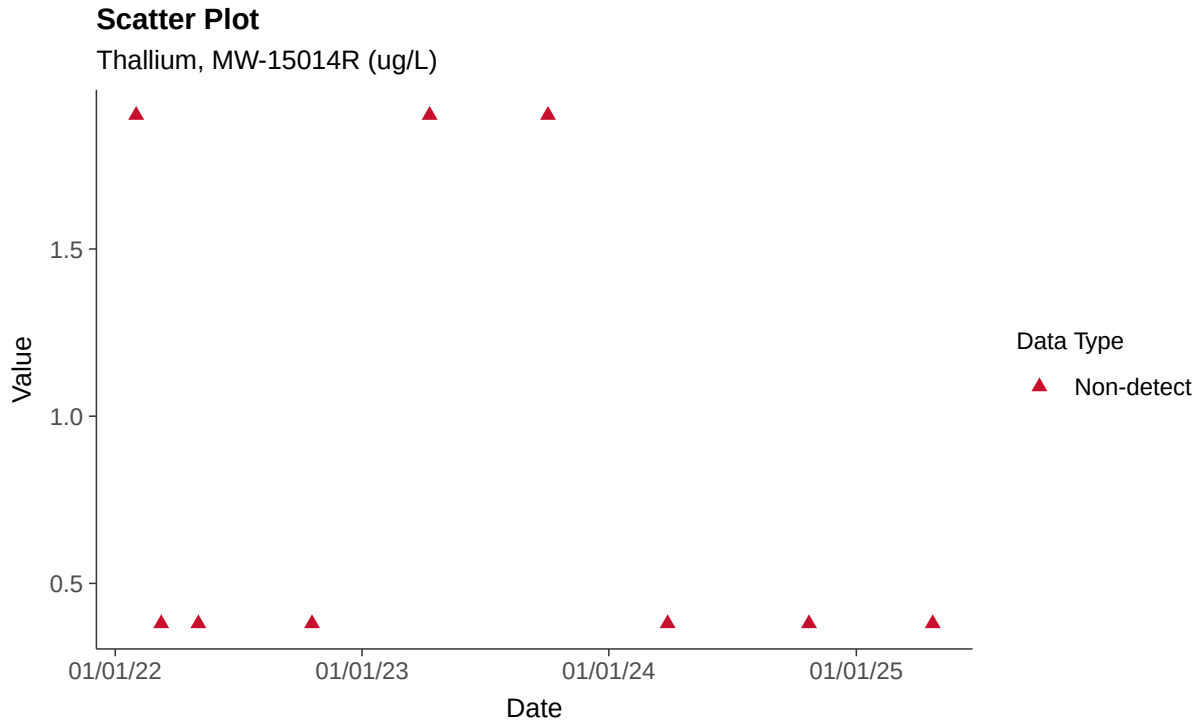
Selenium, MW-15014R (ug/L)

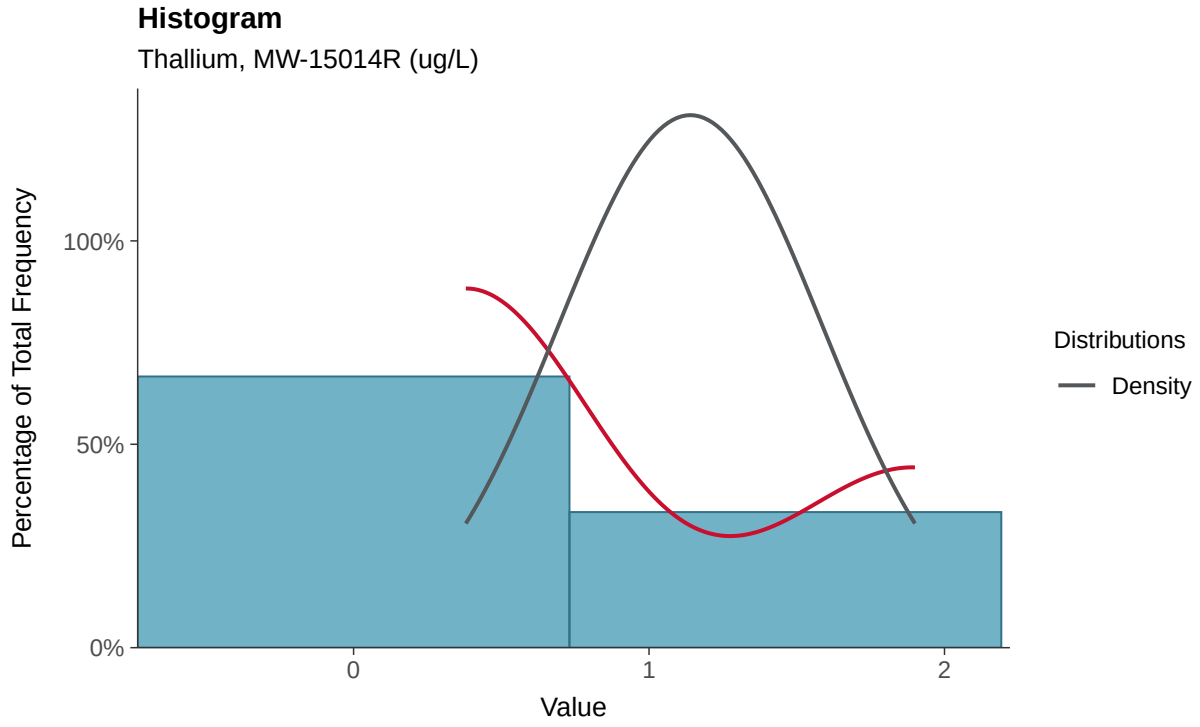



Trend Regression: Piecewise Linear-Linear
Selenium, MW-15014R (ug/L)
Value
2.5
2.0
1.5
1.0
0.5
0.0
01/01/22
01/01/23
01/01/24
01/01/25
Date
Data Type
Detect
Non-detect

Appendix IV: Thallium, MW-15014R

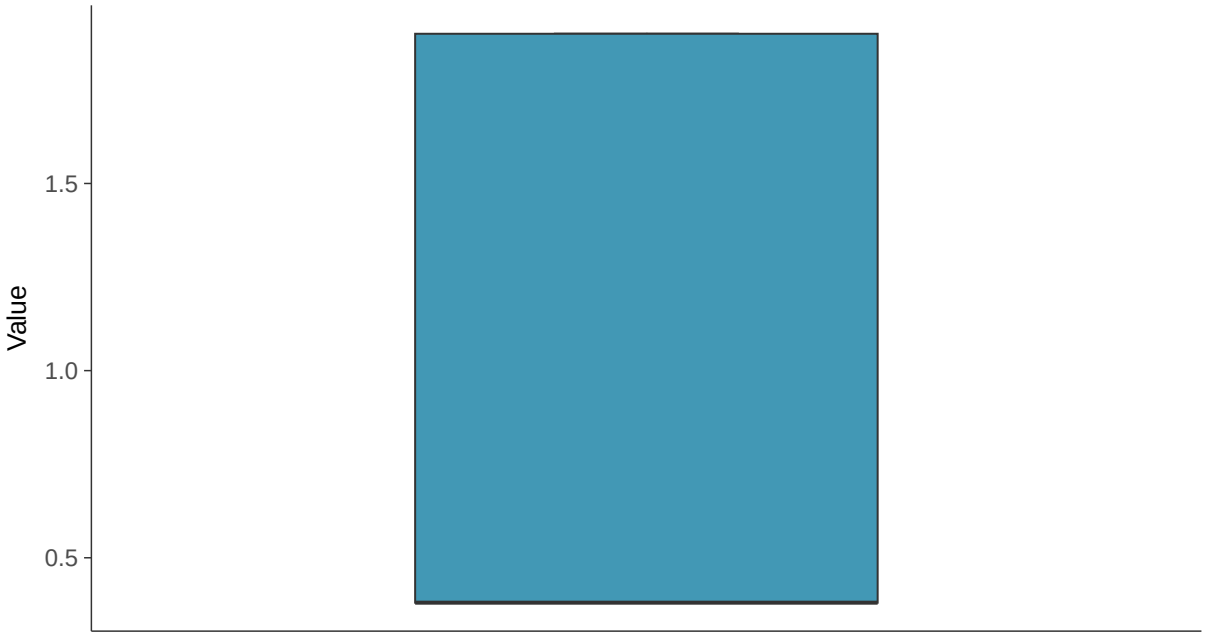
ID: 04_2_131





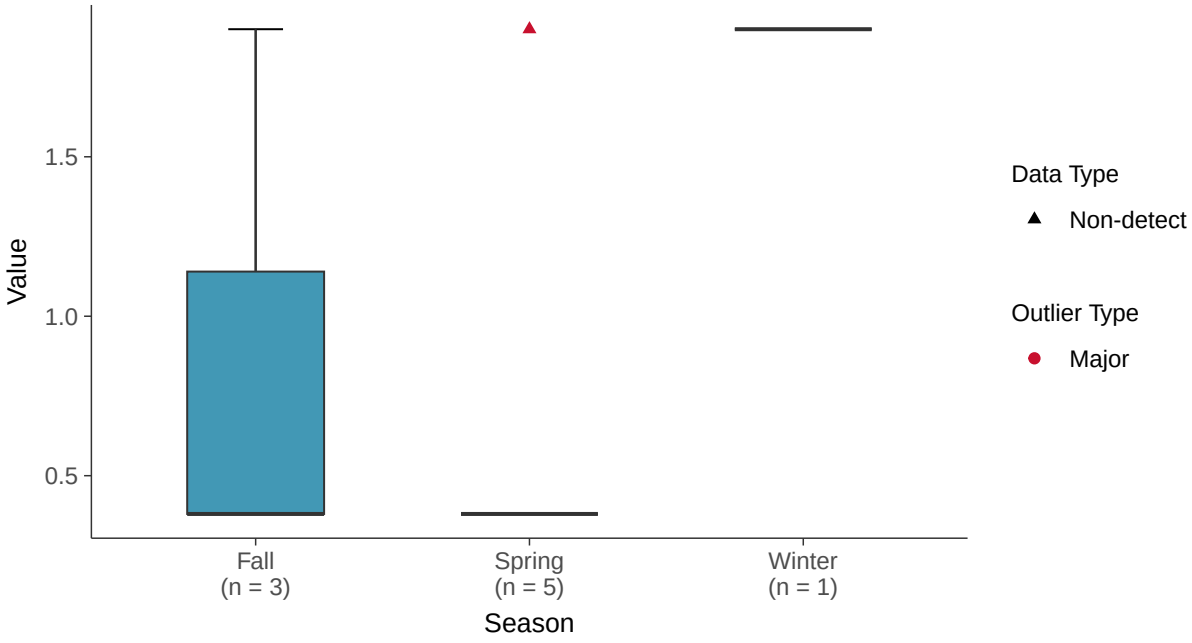
Boxplot

Thallium, MW-15014R (ug/L)



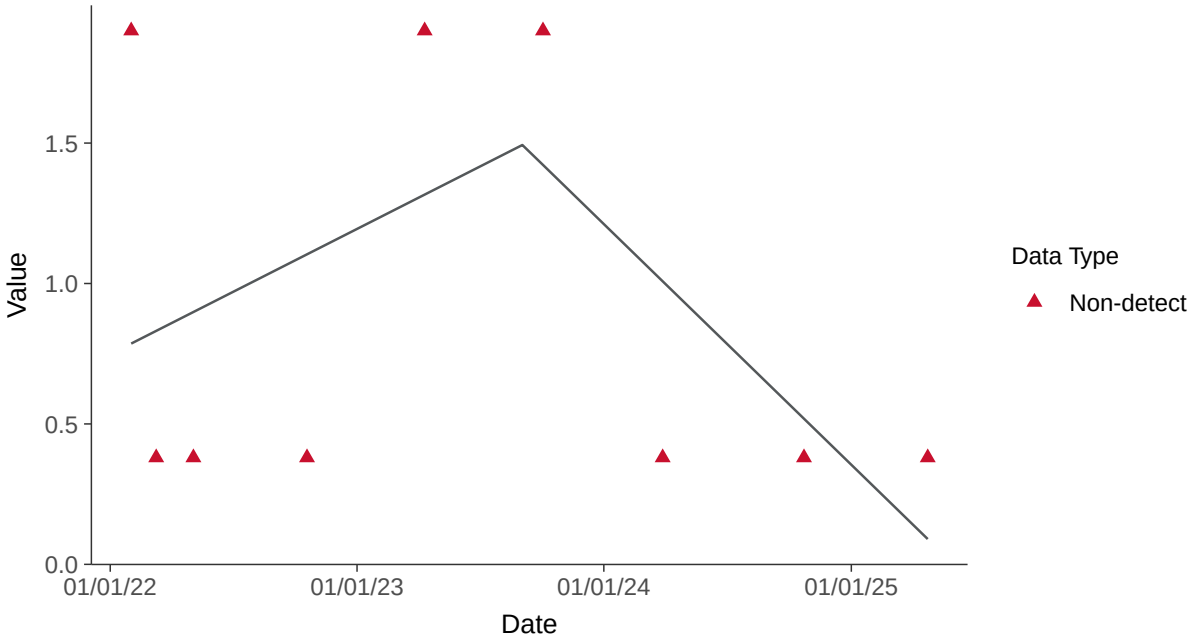
Boxplot by Season

Thallium, MW-15014R (ug/L)



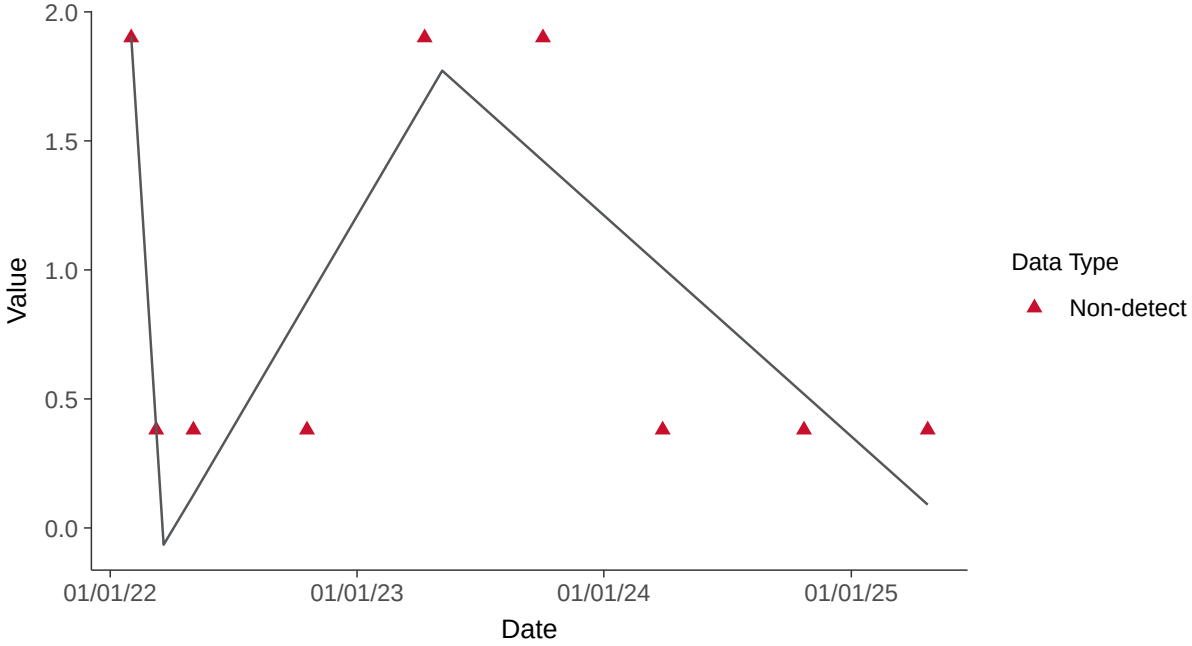
Trend Regression: Piecewise Linear-Linear

Thallium, MW-15014R (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-15014R (ug/L)

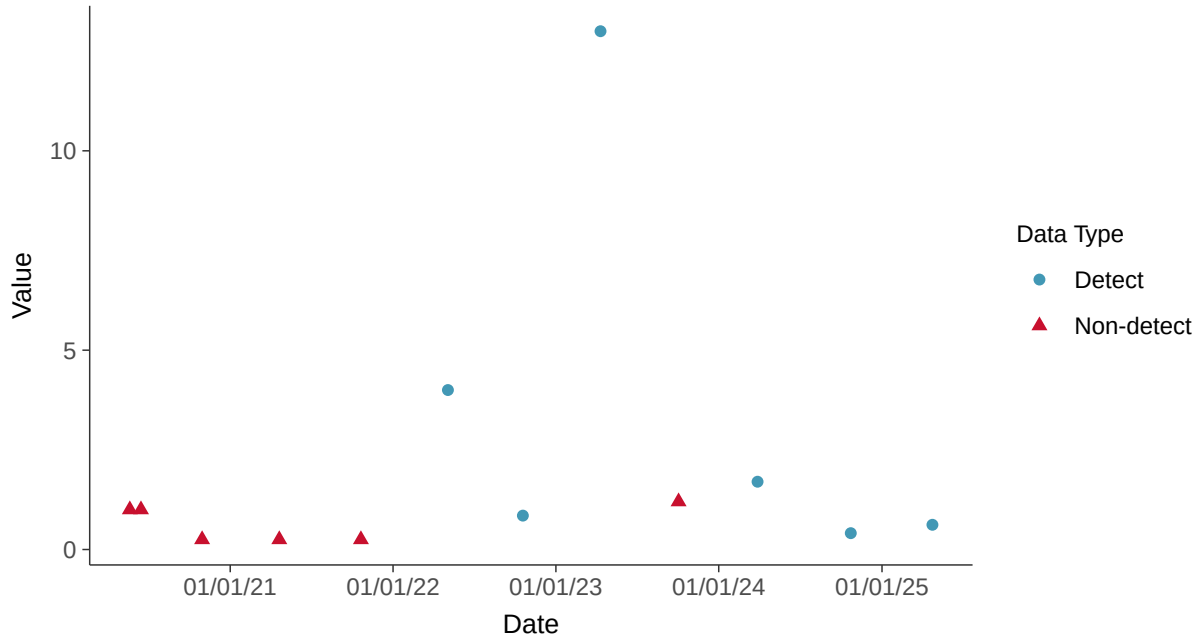


Appendix IV: Antimony, MW-15015R

ID: 05_2_101

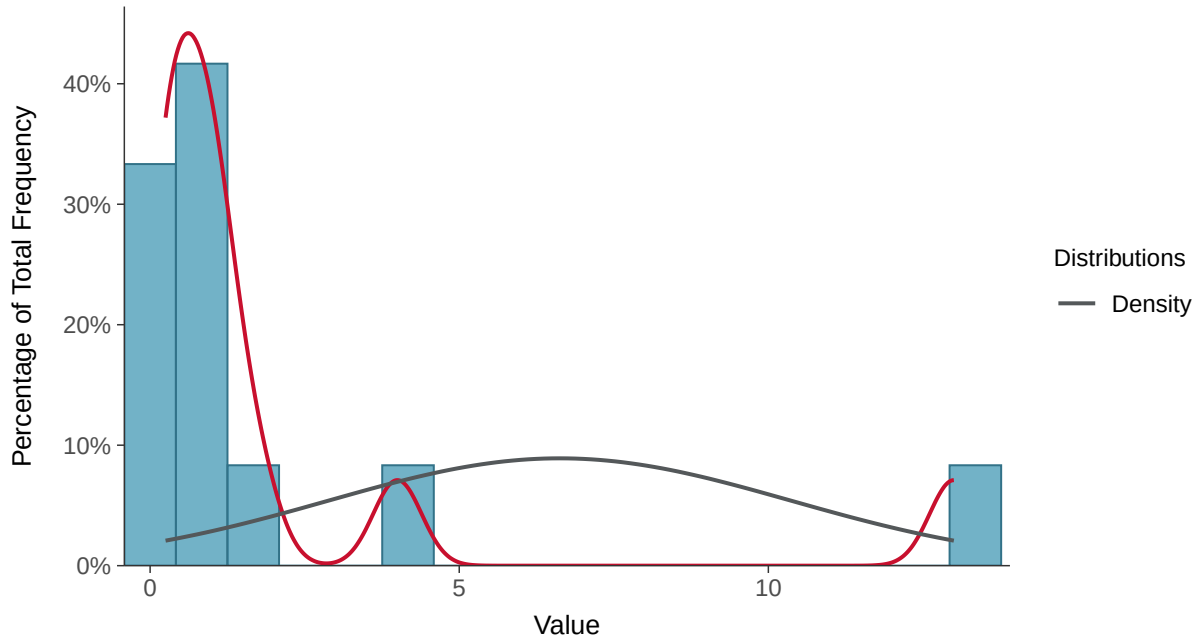
Scatter Plot

Antimony, MW-15015R (ug/L)



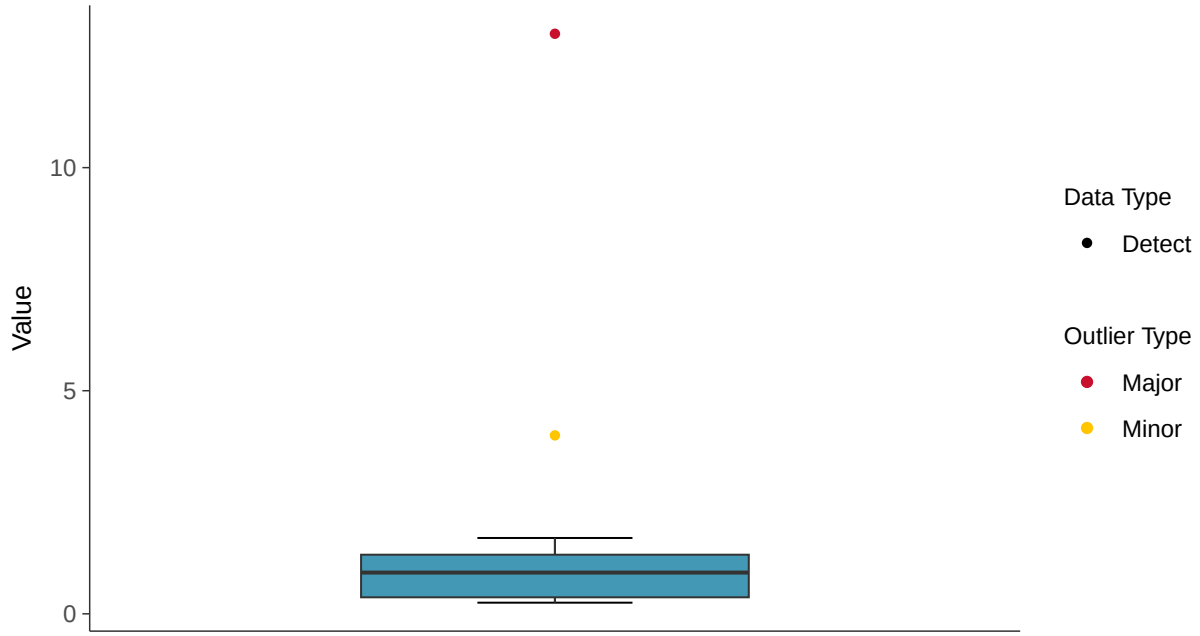
Histogram

Antimony, MW-15015R (ug/L)



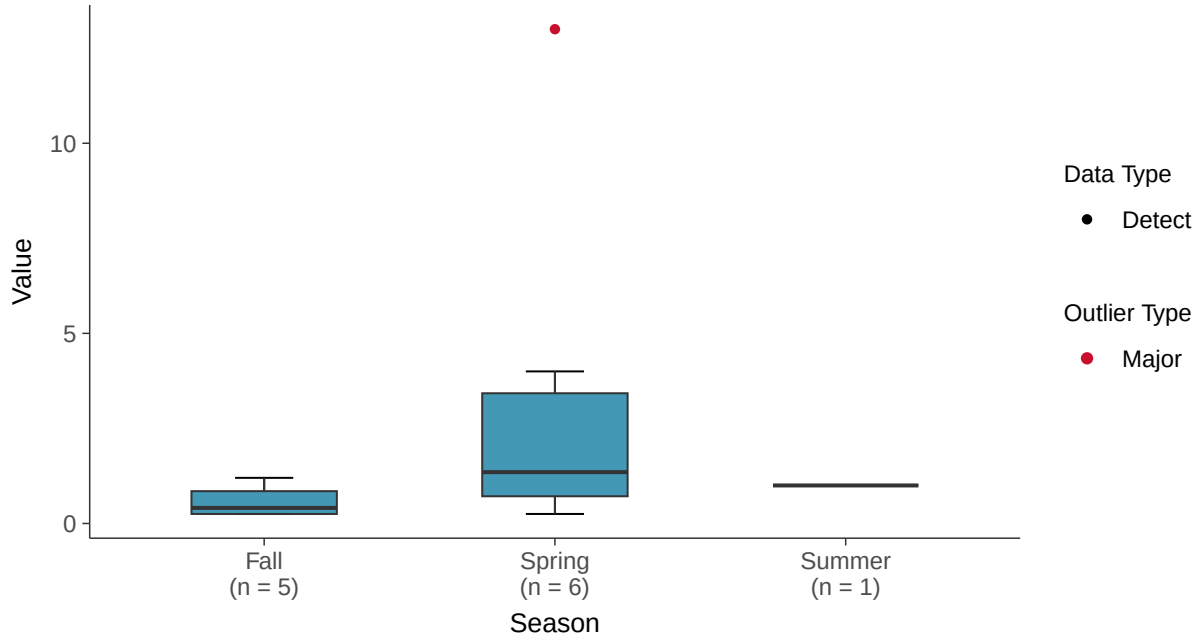
Boxplot

Antimony, MW-15015R (ug/L)



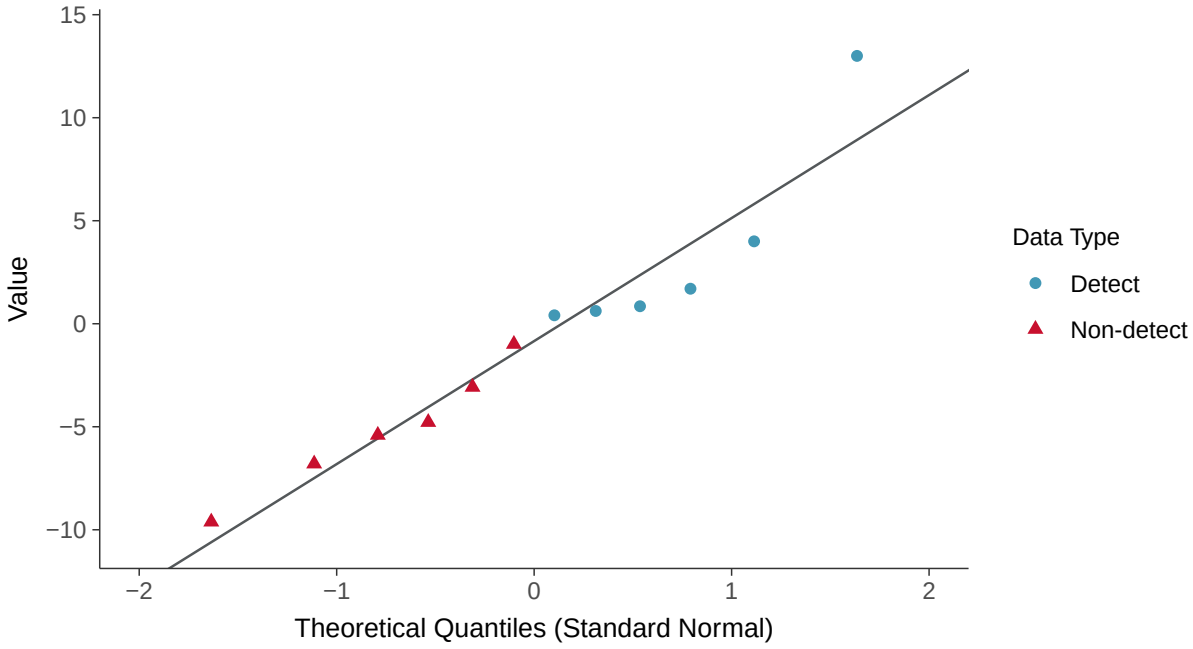
Boxplot by Season

Antimony, MW-15015R (ug/L)



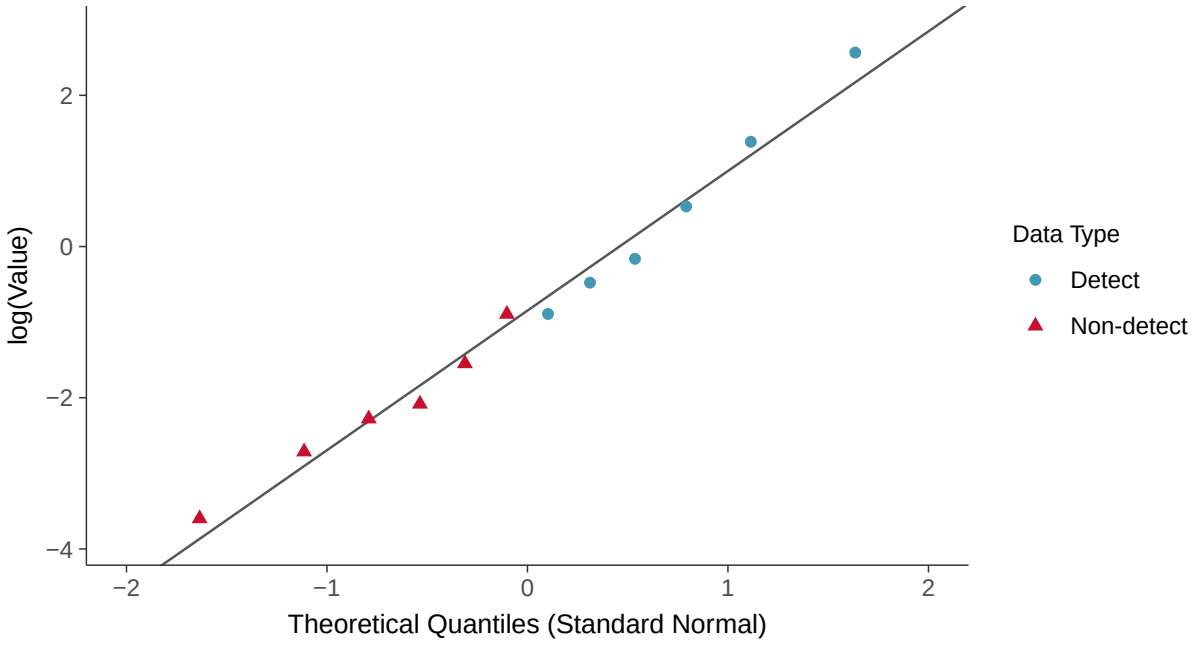
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-15015R (ug/L)



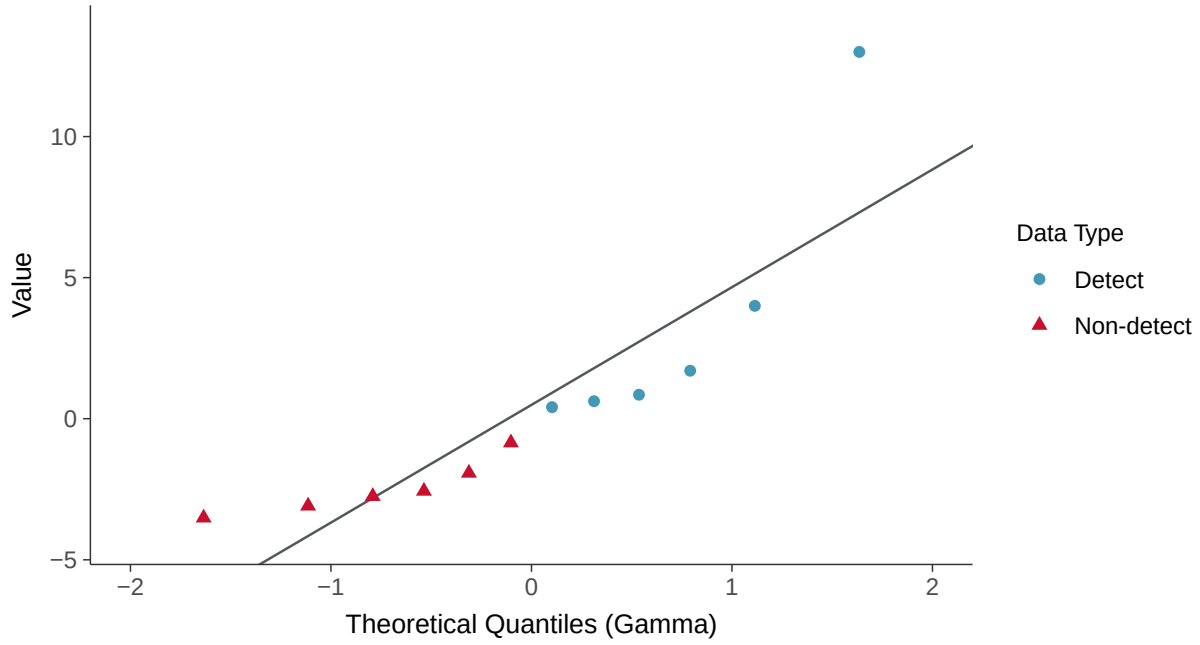
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-15015R (ug/L)



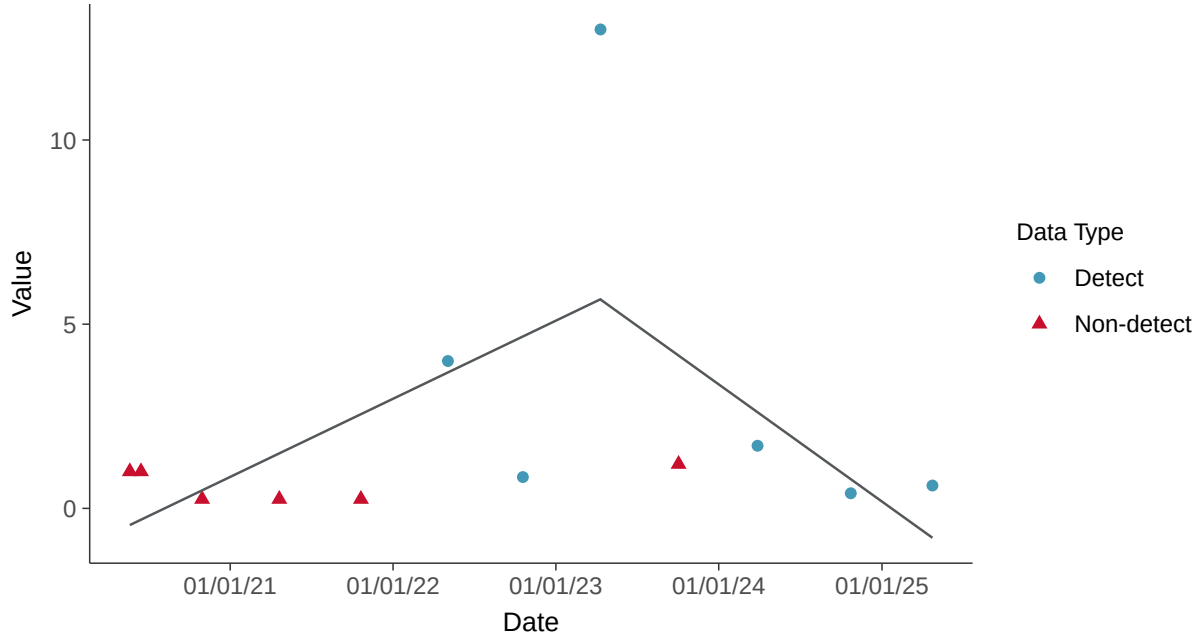
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-15015R (ug/L)



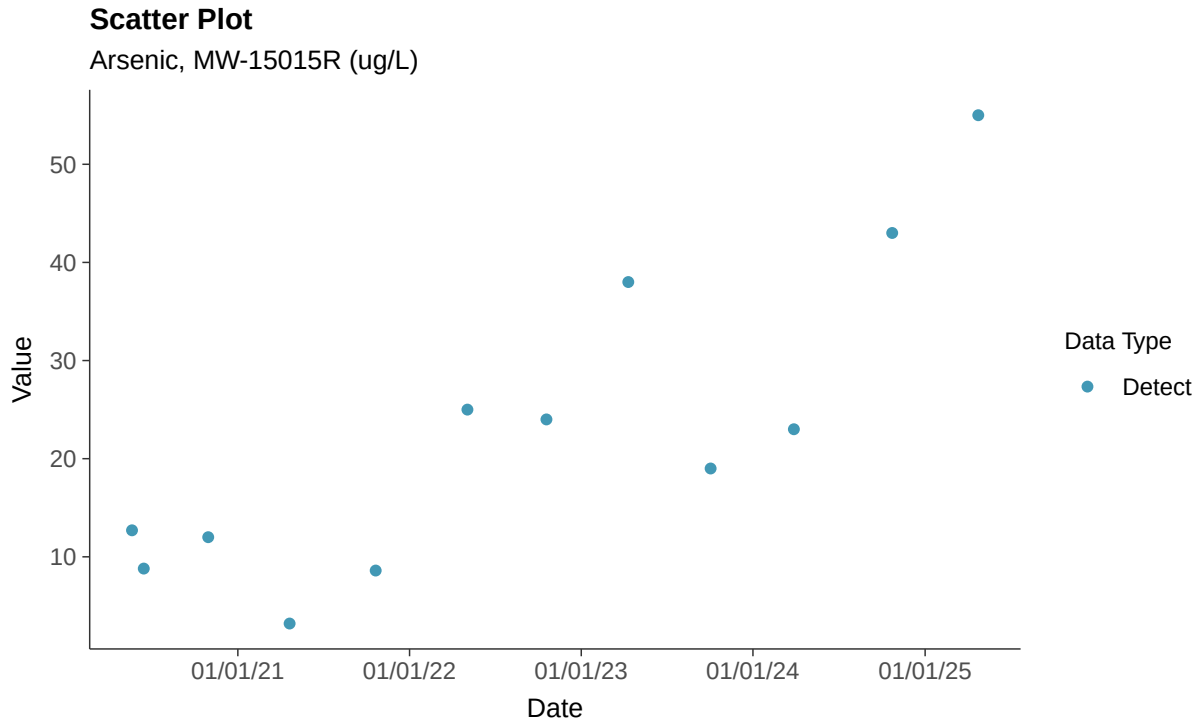
Trend Regression: Piecewise Linear-Linear

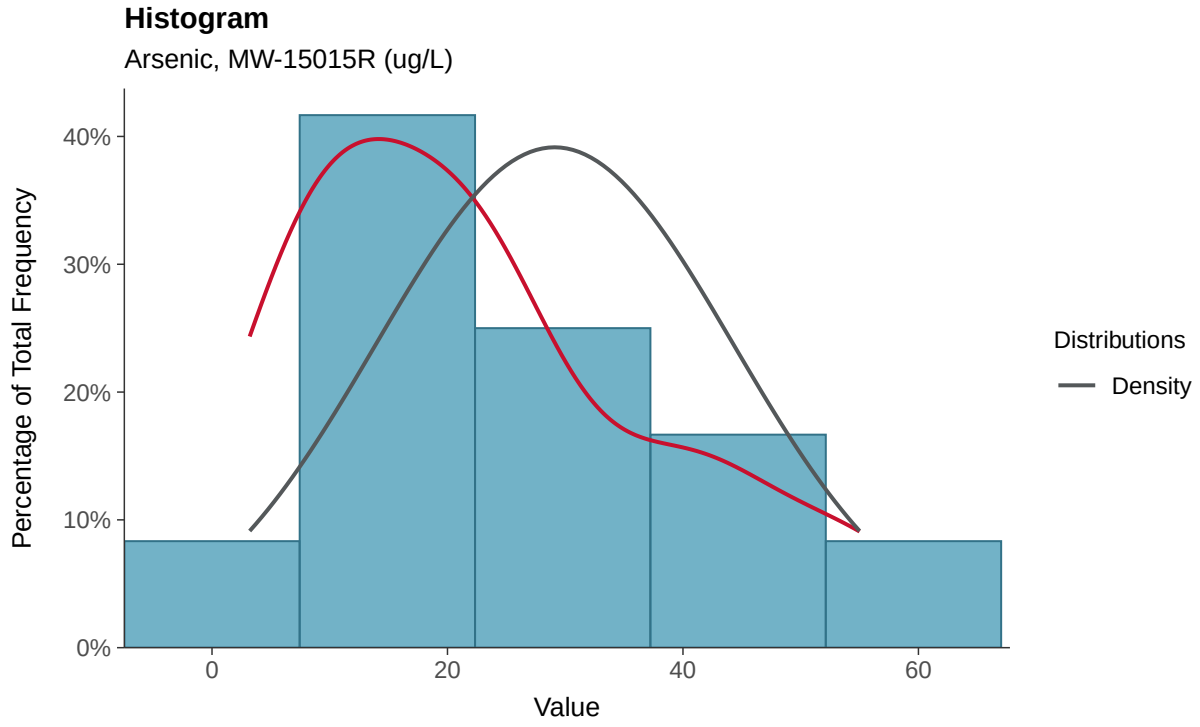
Antimony, MW-15015R (ug/L)



Appendix IV: Arsenic, MW-15015R

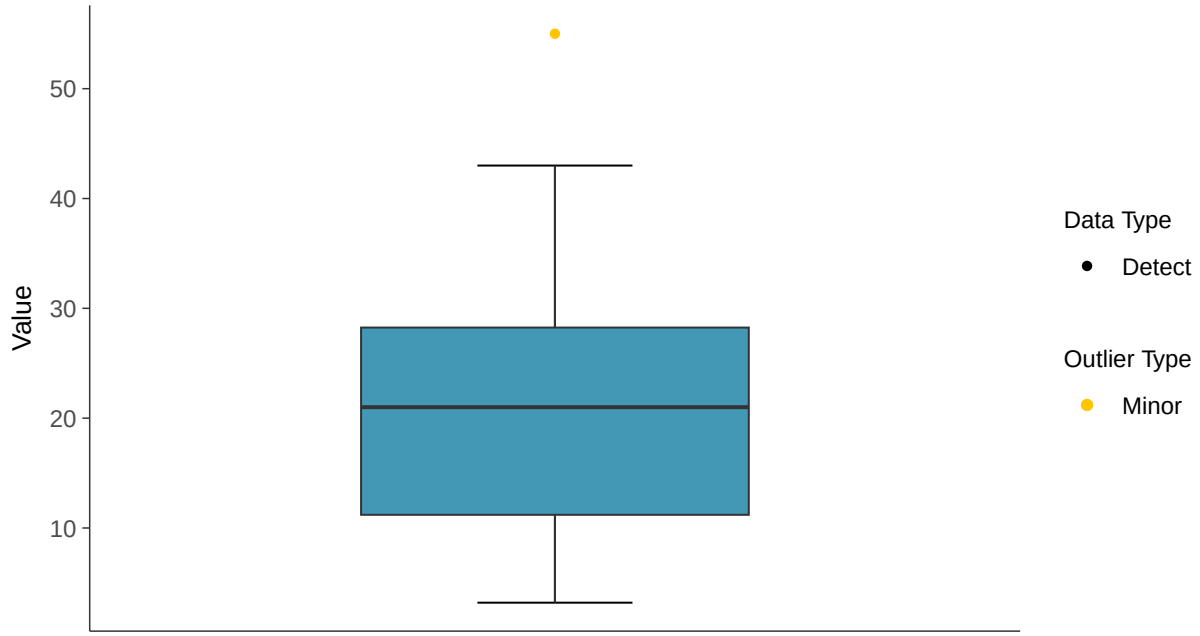
ID: 05_2_102





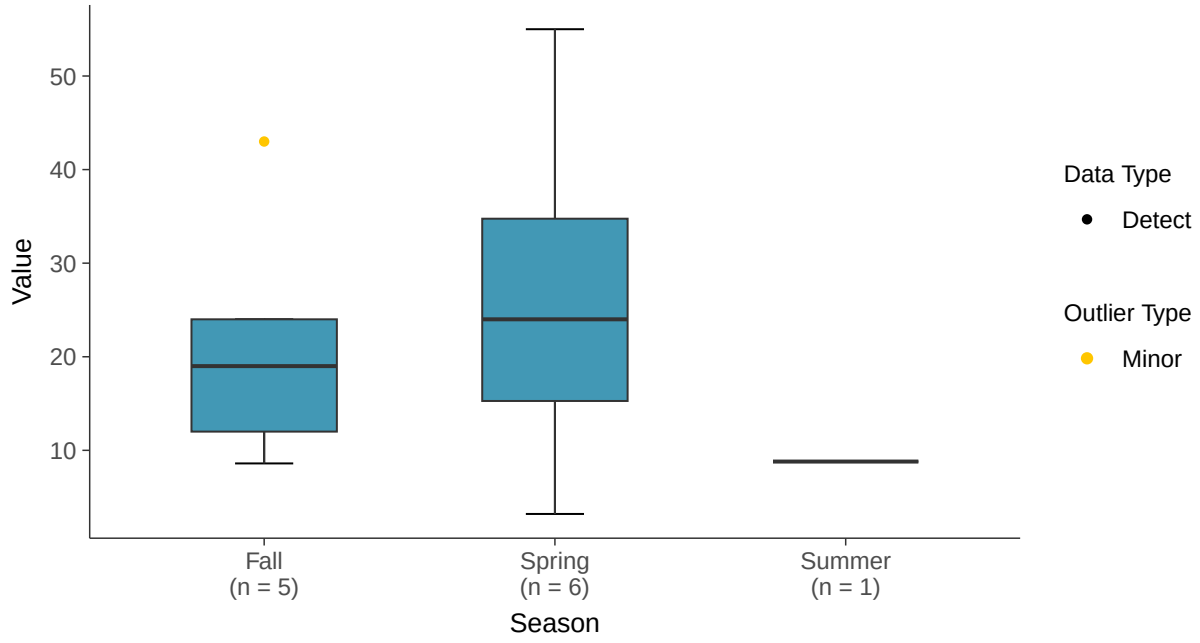
Boxplot

Arsenic, MW-15015R (ug/L)



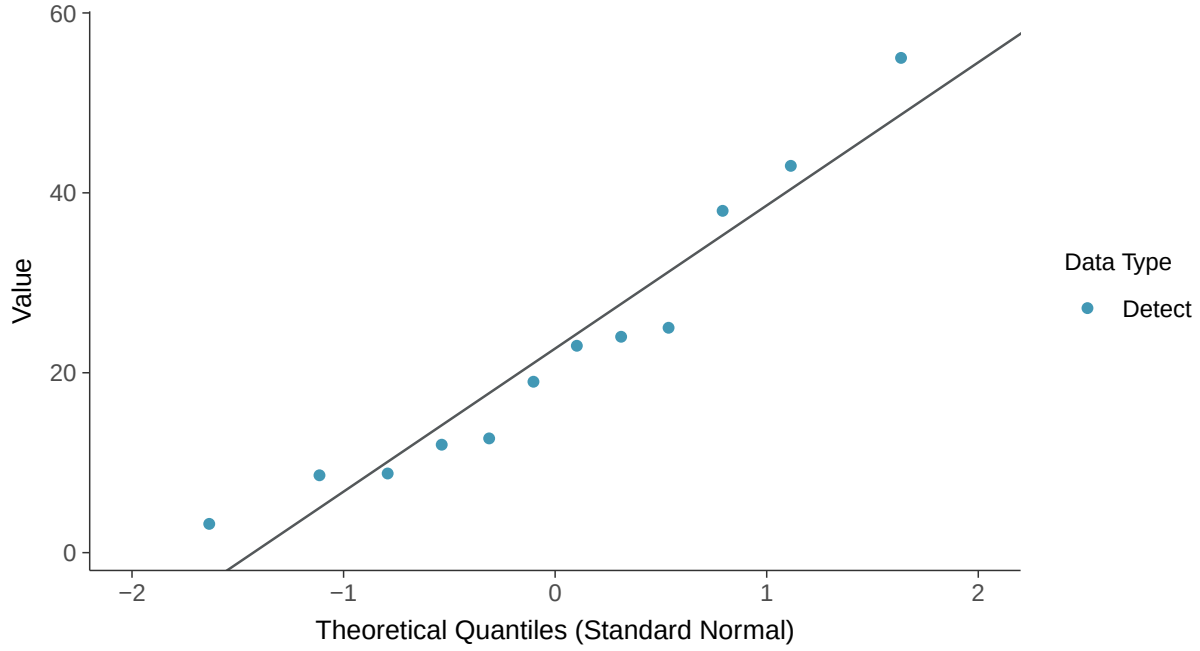
Boxplot by Season

Arsenic, MW-15015R (ug/L)



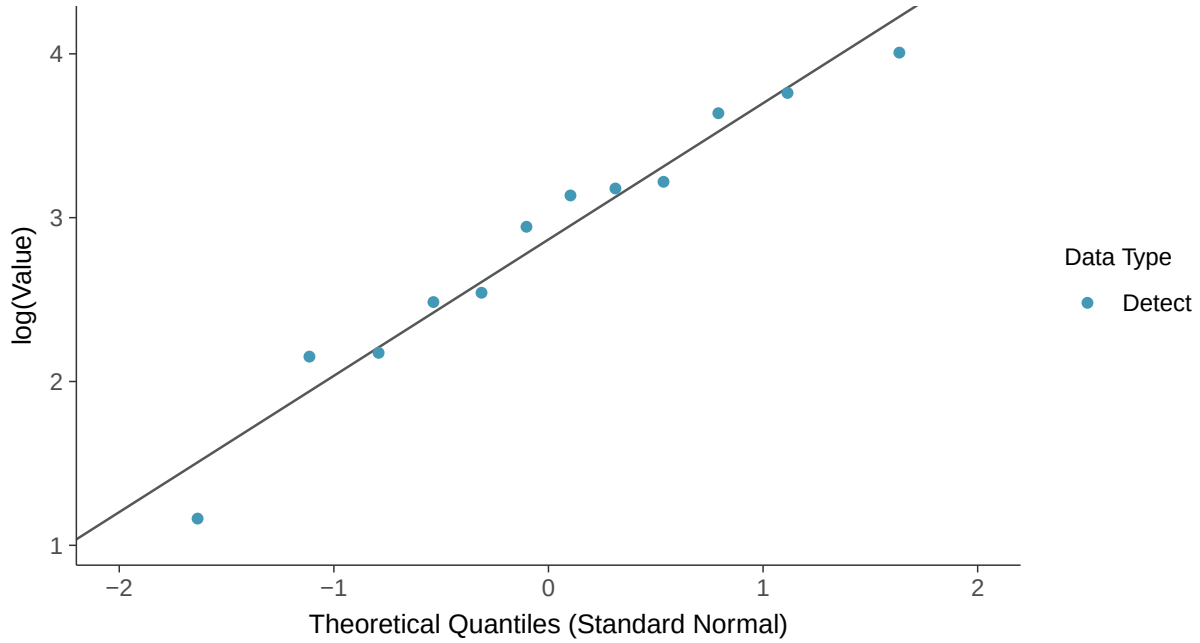
Normal Q-Q plot

Arsenic, MW-15015R (ug/L)



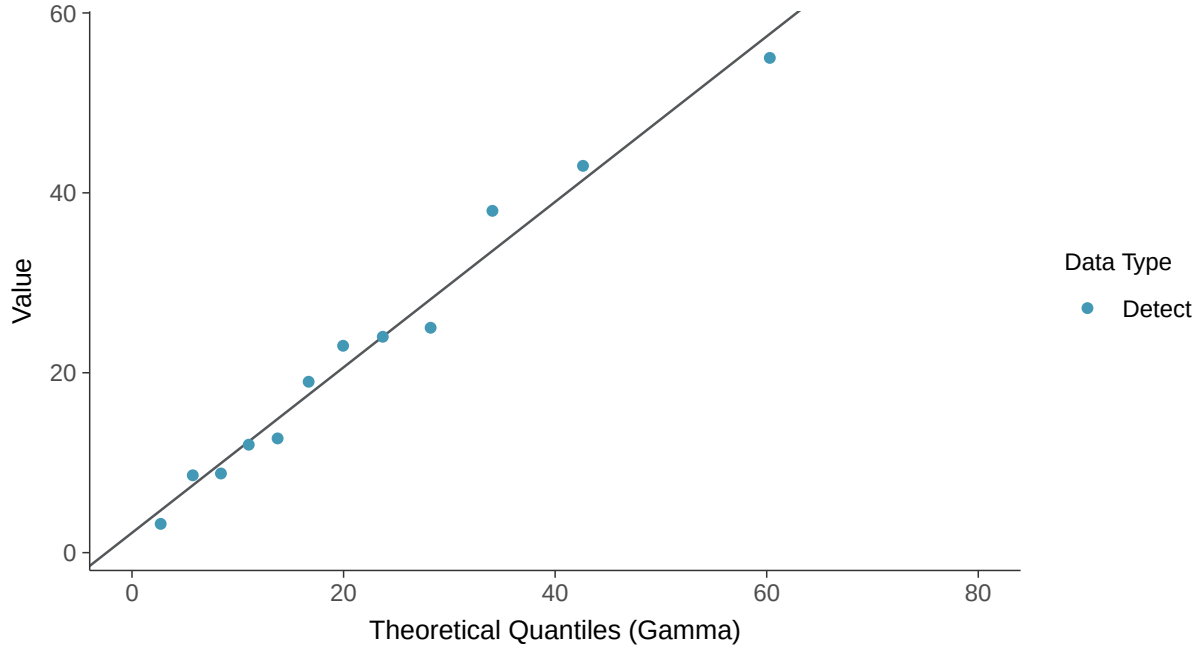
Lognormal Q-Q plot

Arsenic, MW-15015R (ug/L)



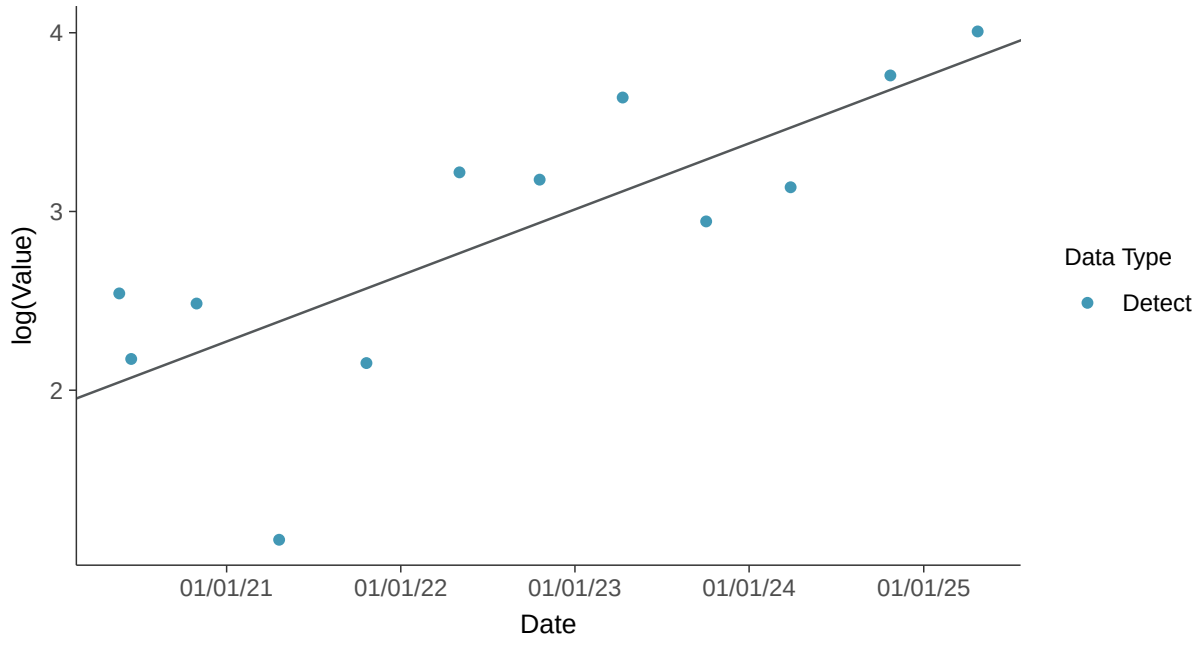
Gamma Q-Q plot

Arsenic, MW-15015R (ug/L)



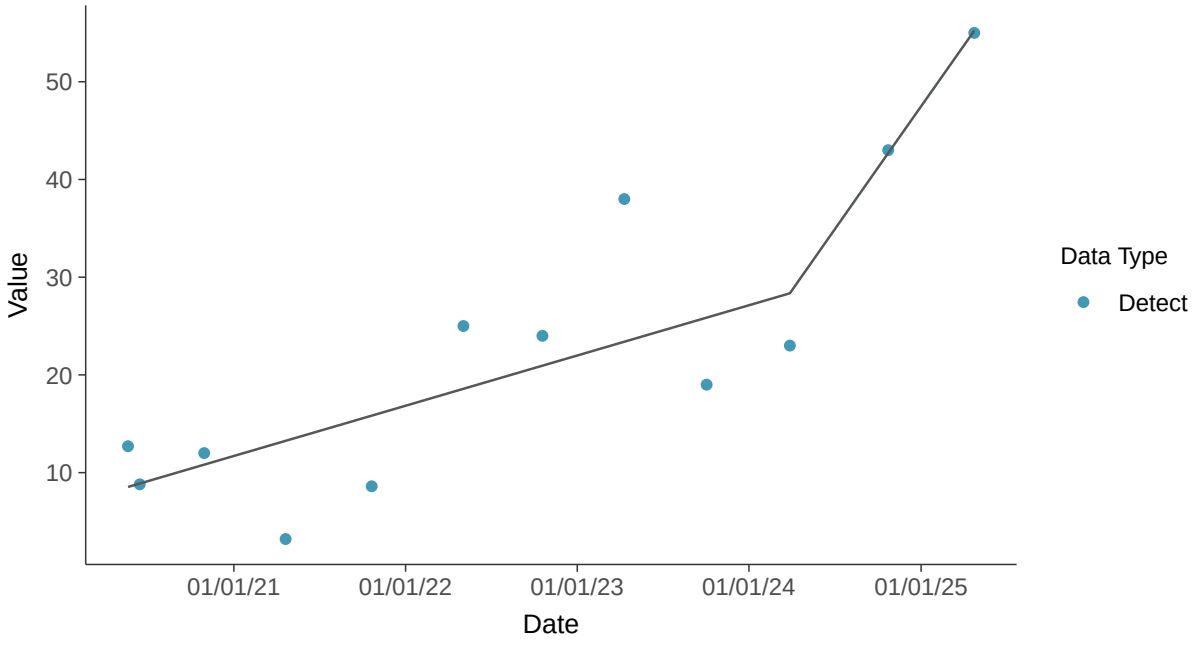
Trend Regression: Lognormal MLE

Arsenic, MW-15015R (ug/L)



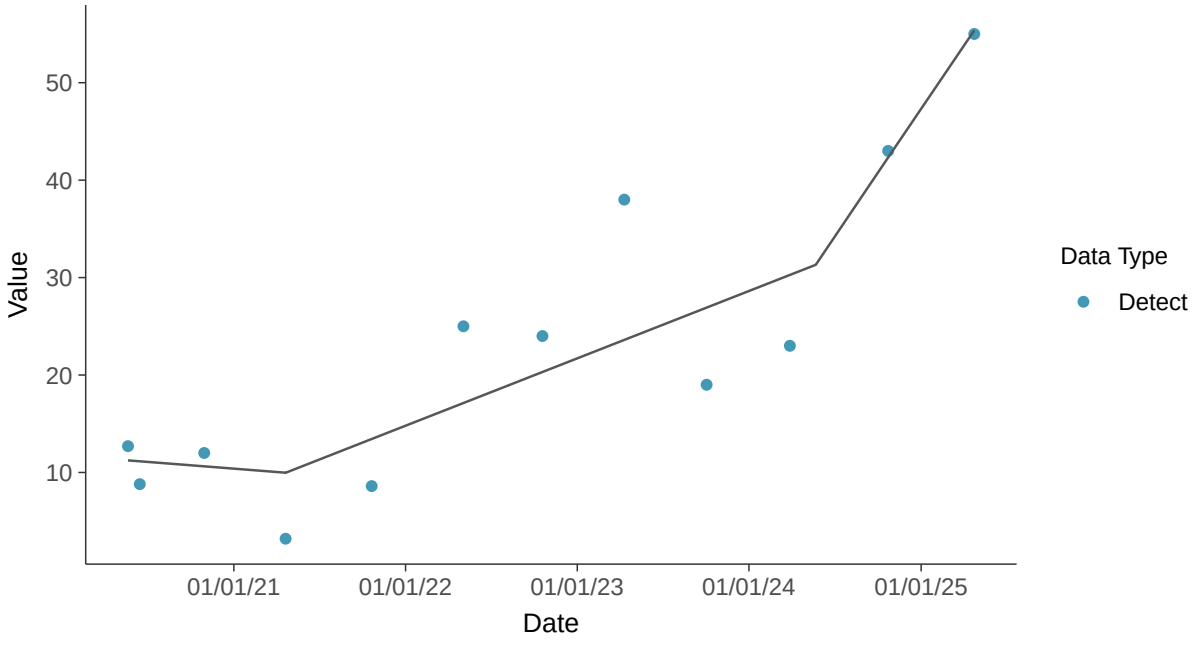
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-15015R (ug/L)



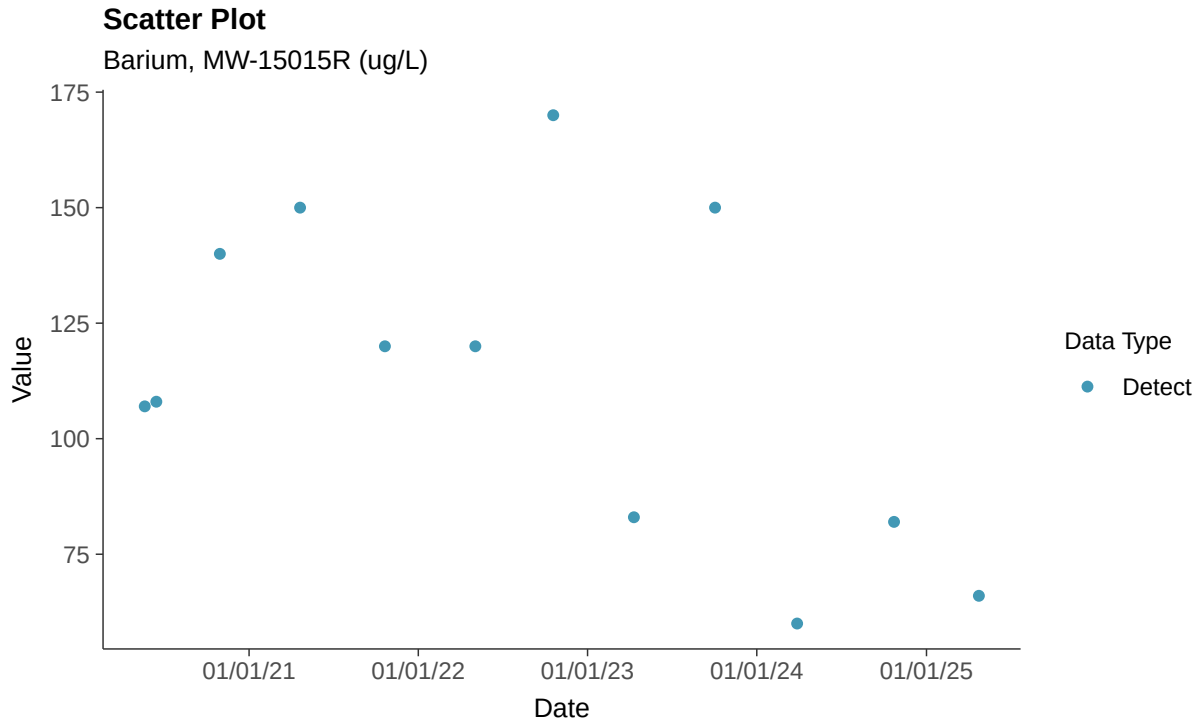
Trend Regression: Piecewise Linear-Linear-Linear

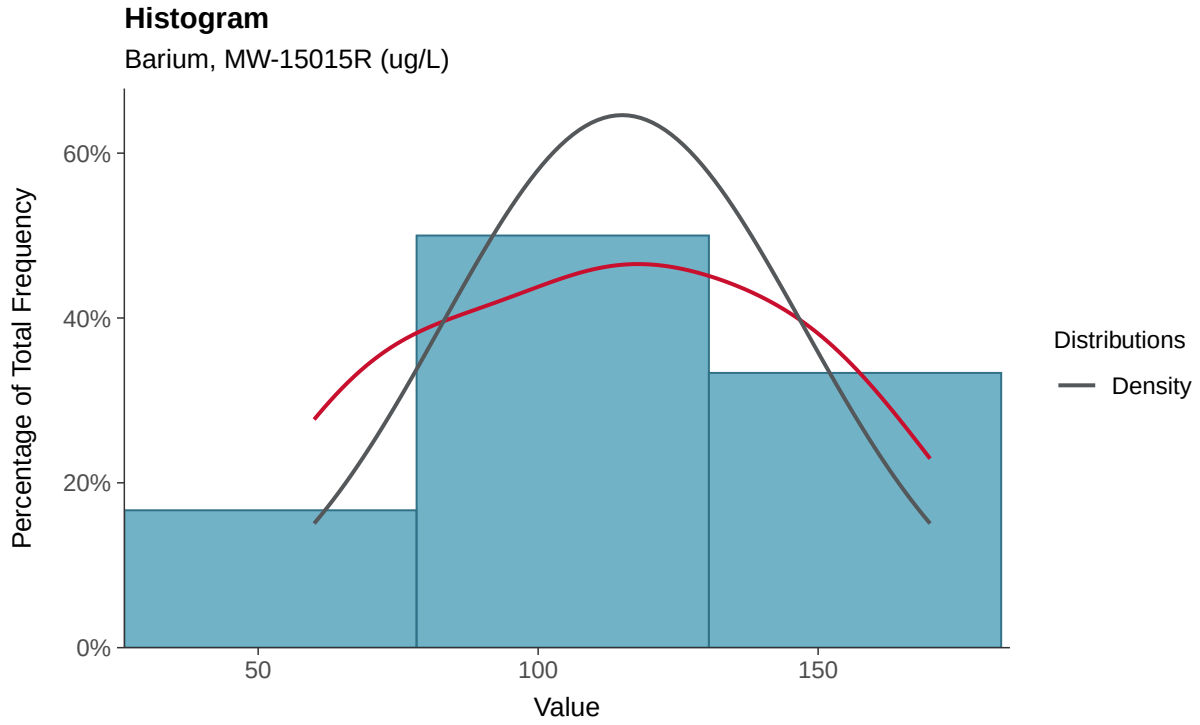
Arsenic, MW-15015R (ug/L)



Appendix IV: Barium, MW-15015R

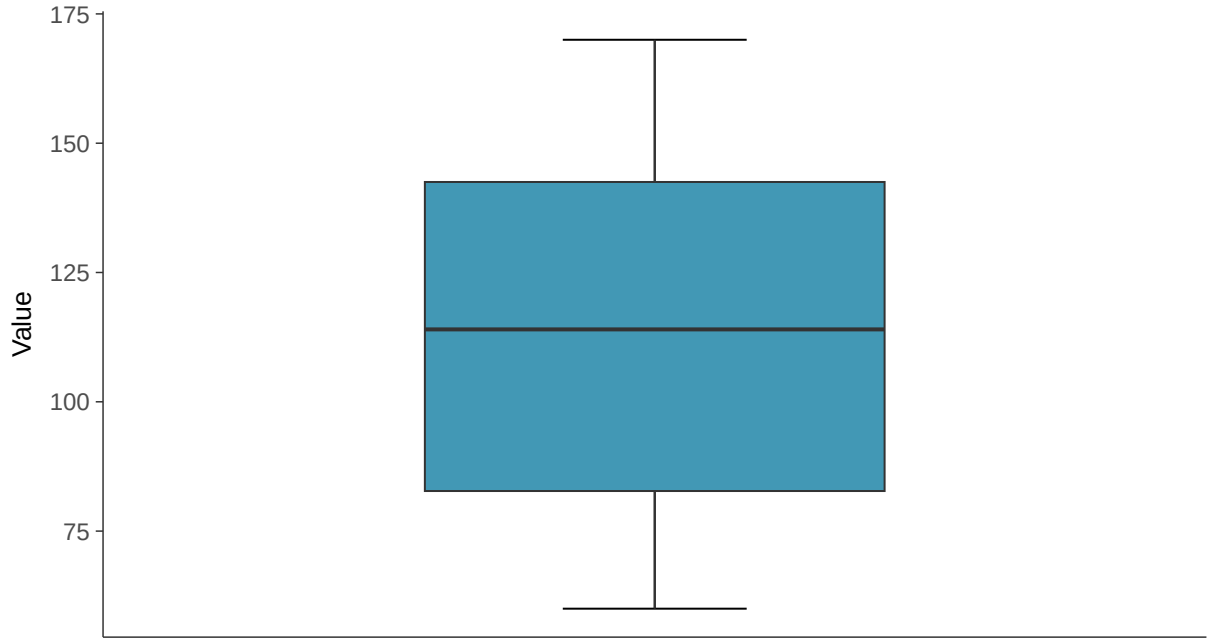
ID: 05_2_103





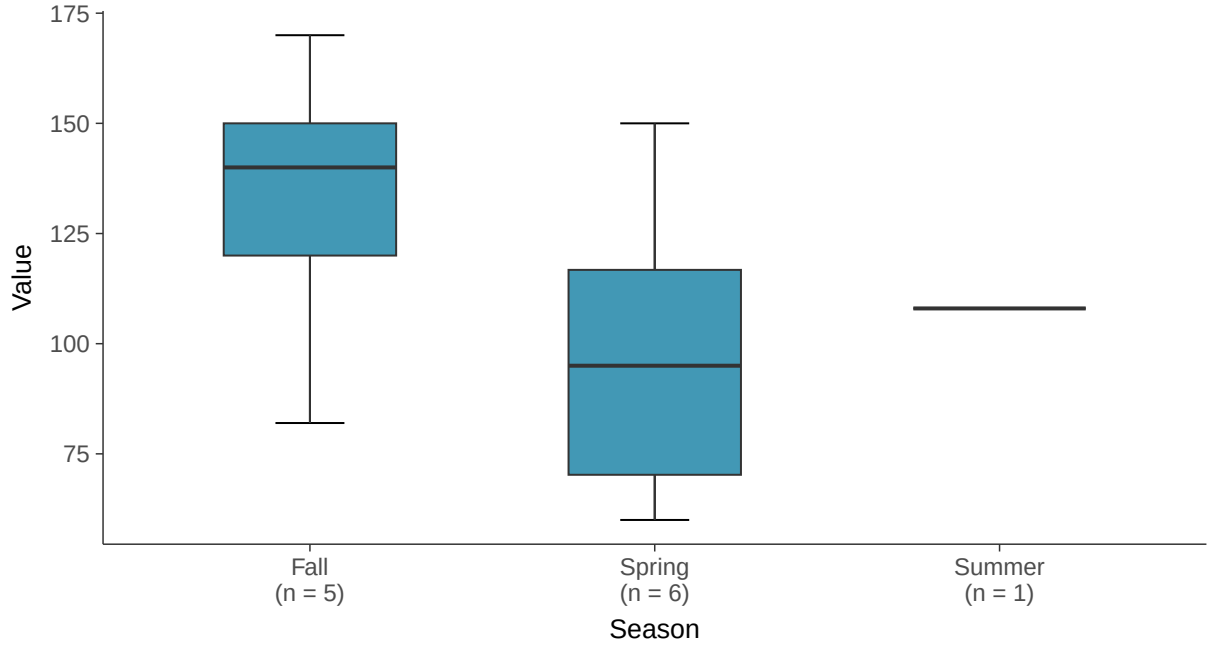
Boxplot

Barium, MW-15015R (ug/L)



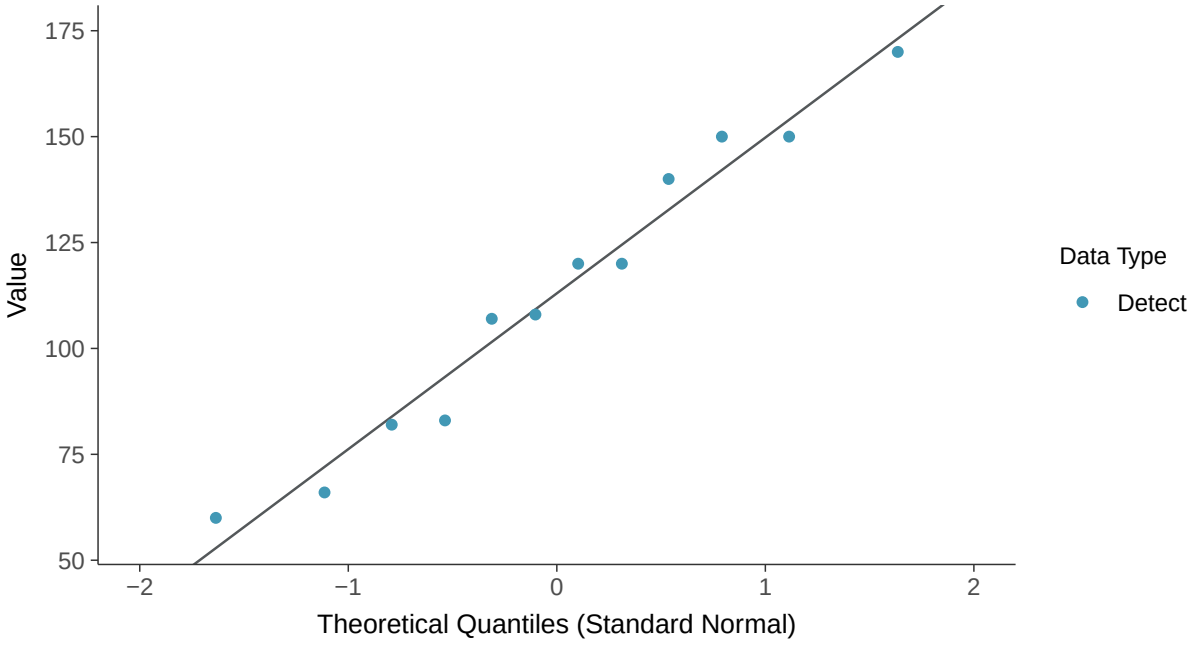
Boxplot by Season

Barium, MW-15015R (ug/L)



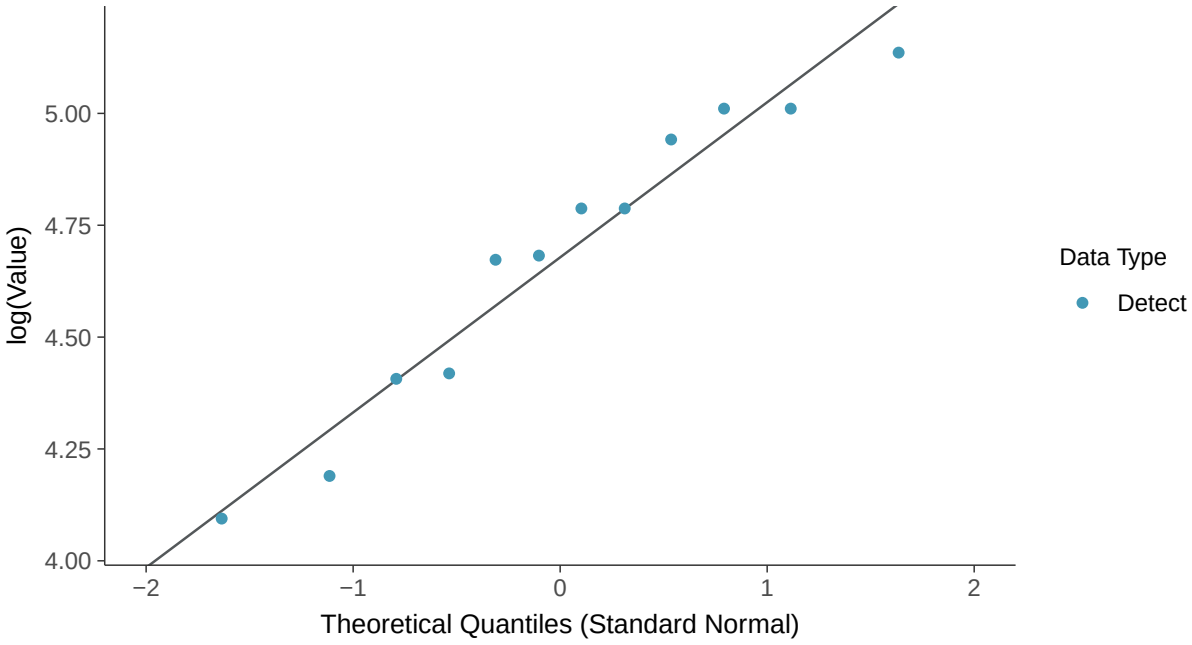
Normal Q-Q plot

Barium, MW-15015R (ug/L)



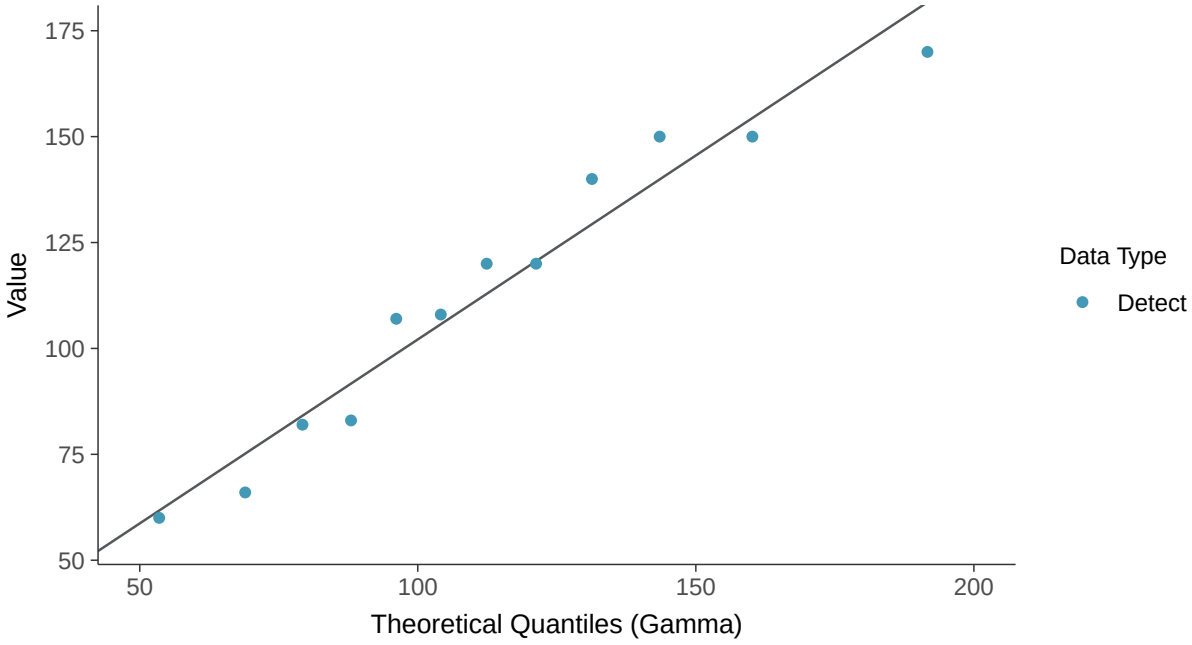
Lognormal Q-Q plot

Barium, MW-15015R (ug/L)



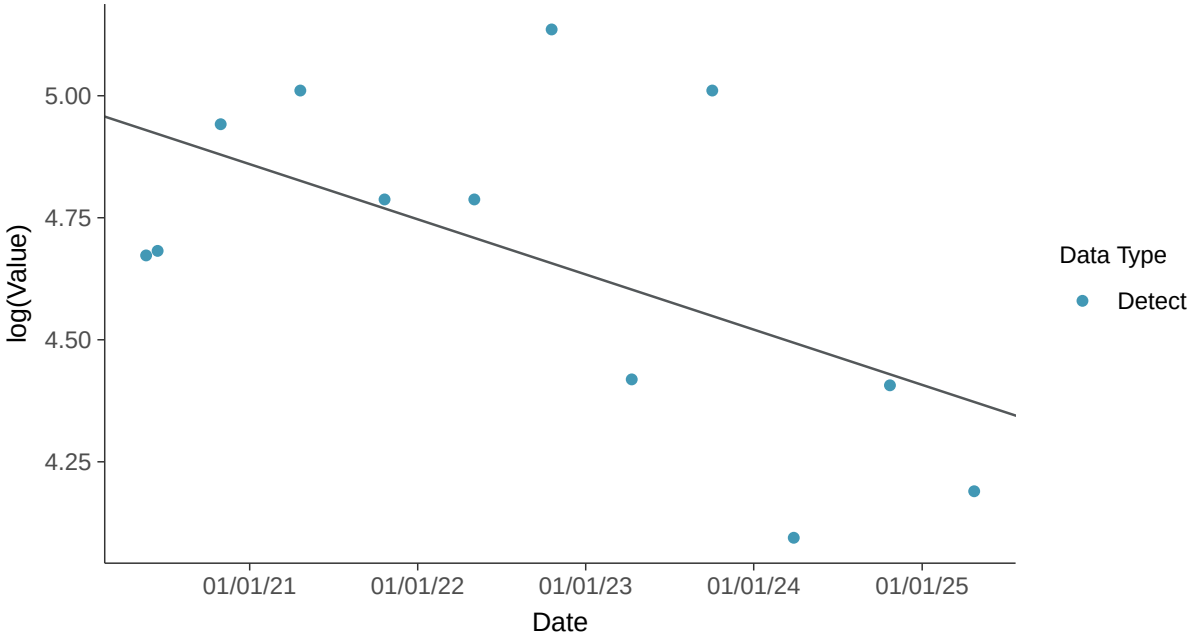
Gamma Q-Q plot

Barium, MW-15015R (ug/L)



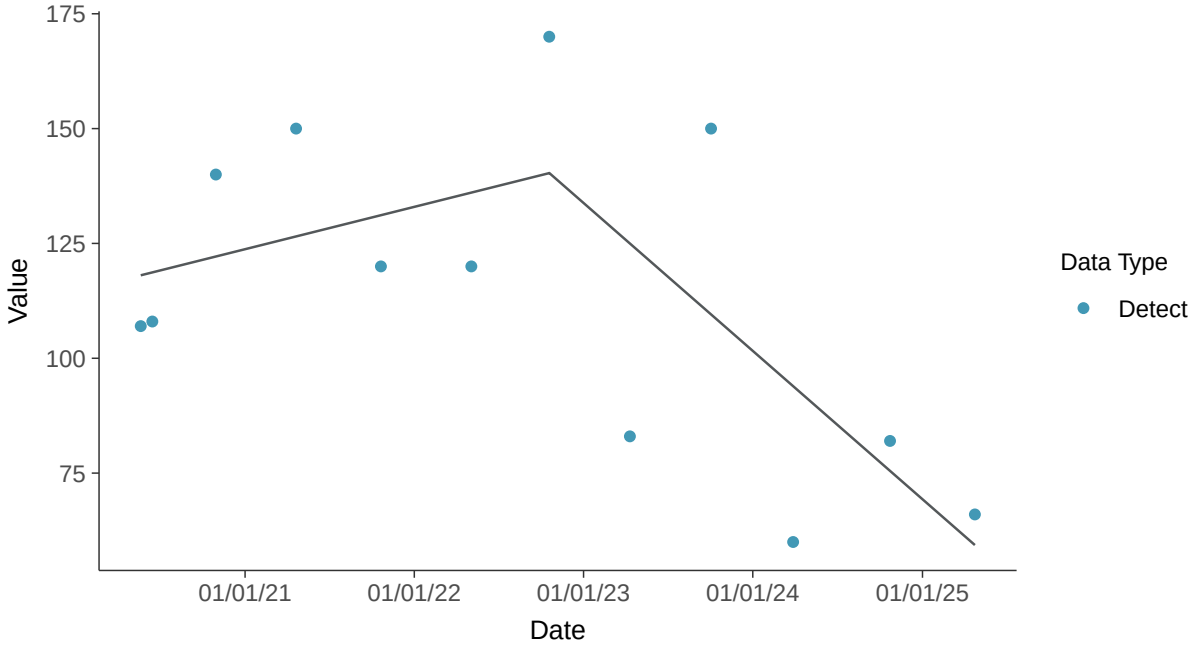
Trend Regression: Lognormal MLE

Barium, MW-15015R (ug/L)



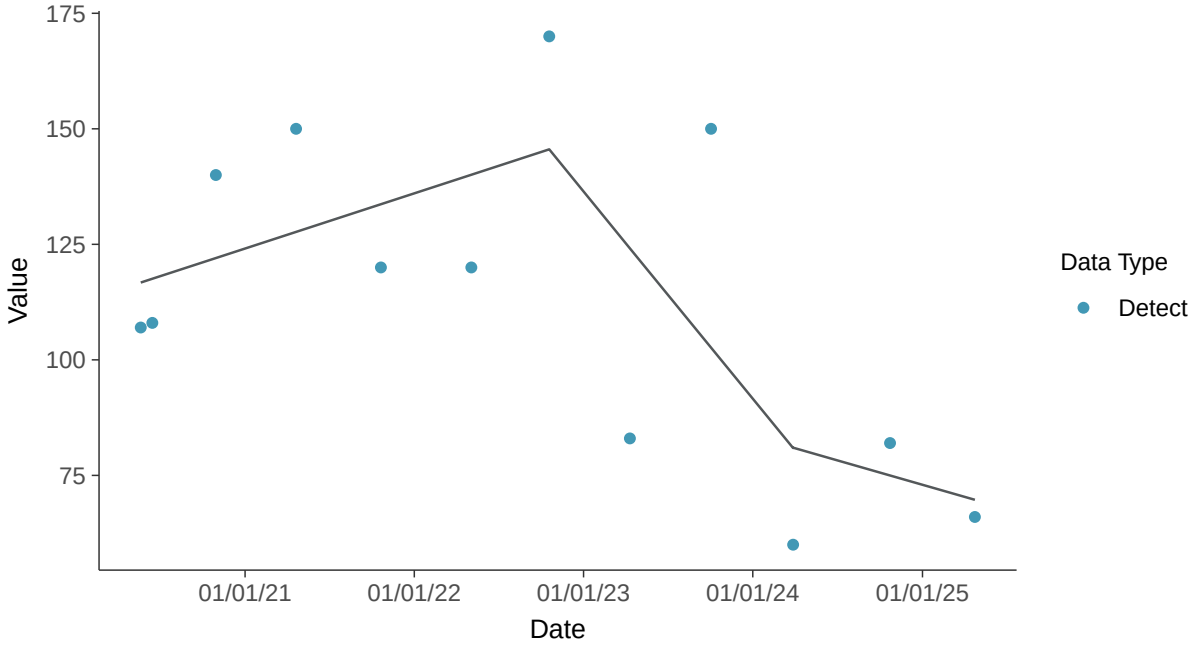
Trend Regression: Piecewise Linear-Linear

Barium, MW-15015R (ug/L)



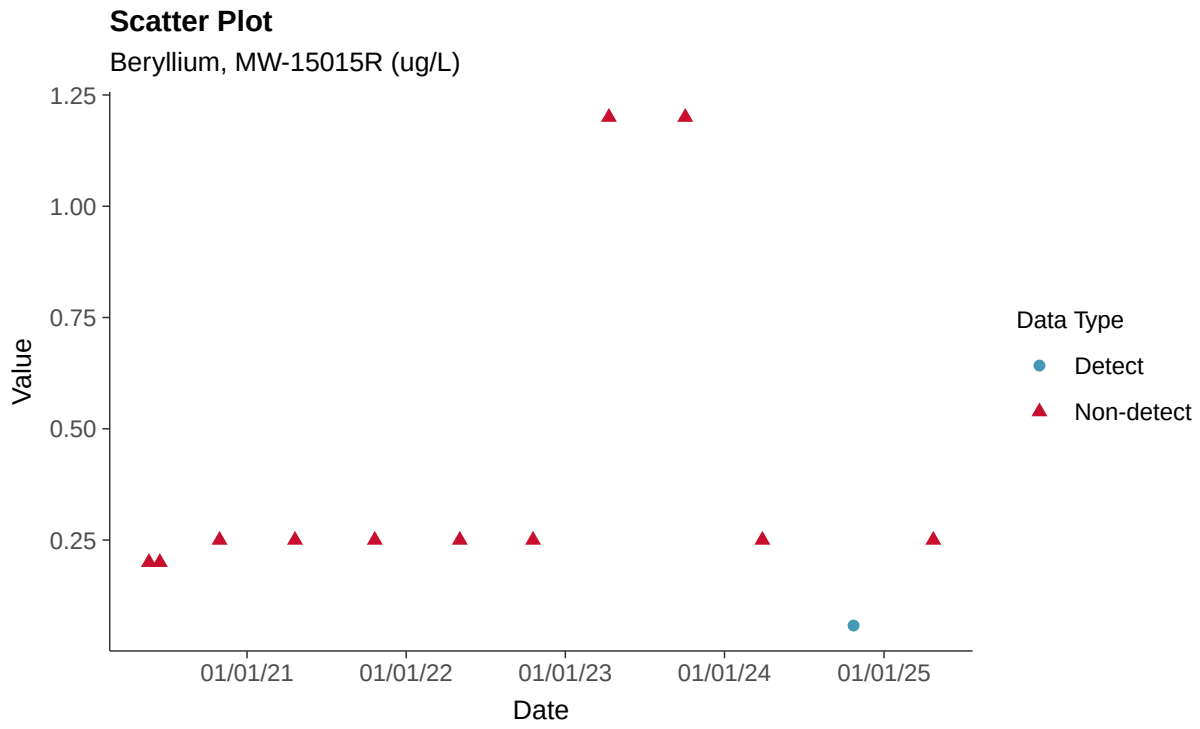
Trend Regression: Piecewise Linear-Linear-Linear

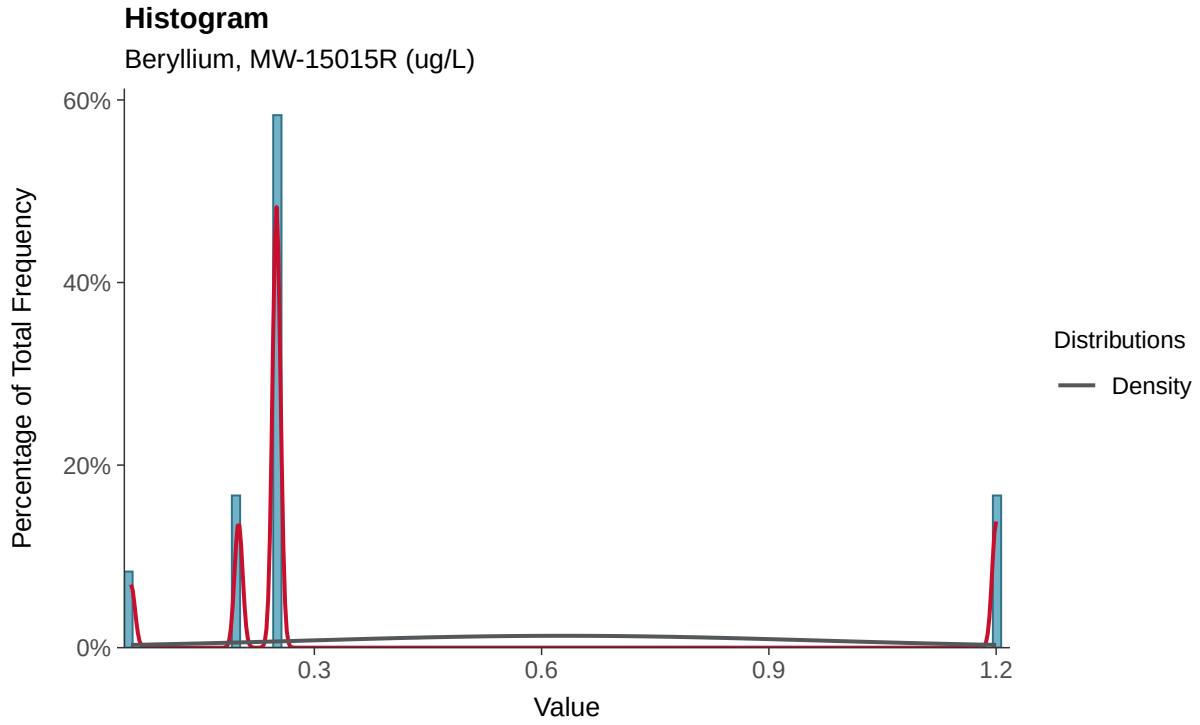
Barium, MW-15015R (ug/L)



Appendix IV: Beryllium, MW-15015R

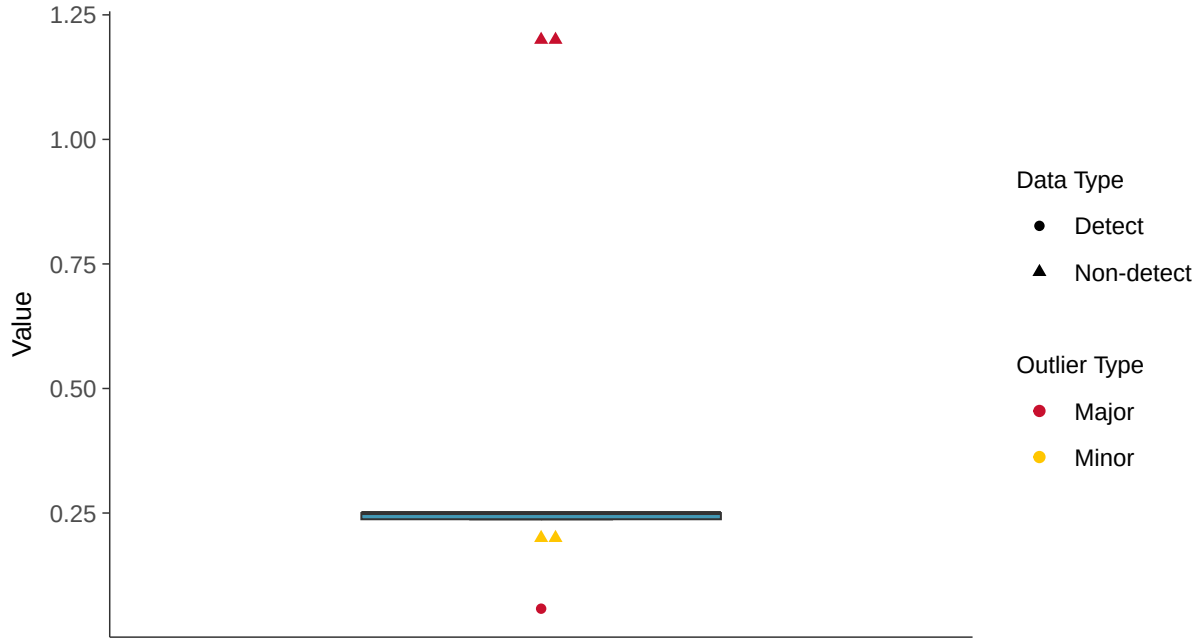
ID: 05_2_104





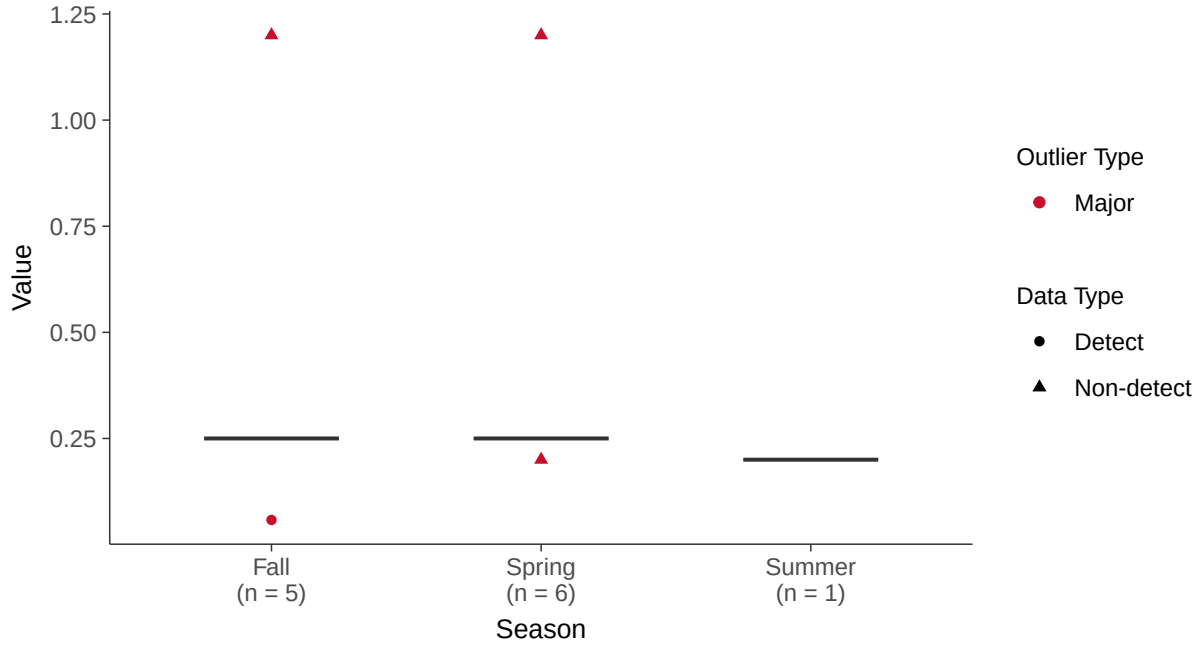
Boxplot

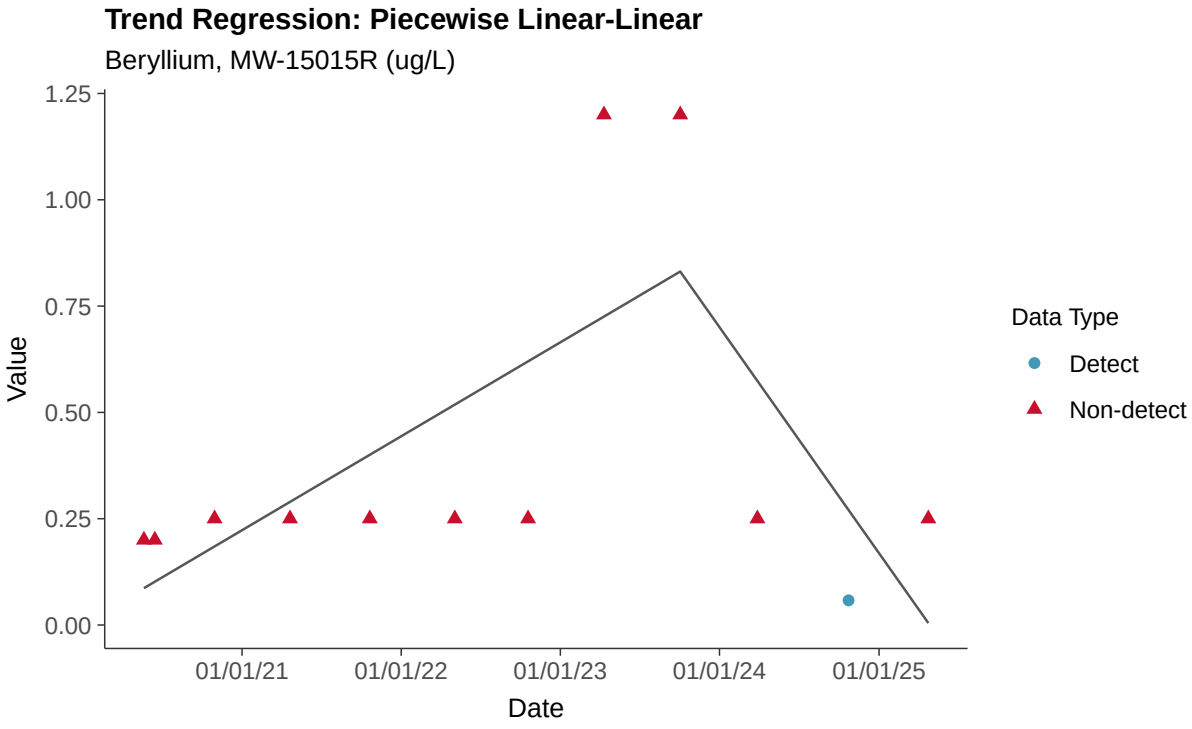
Beryllium, MW-15015R (ug/L)



Boxplot by Season

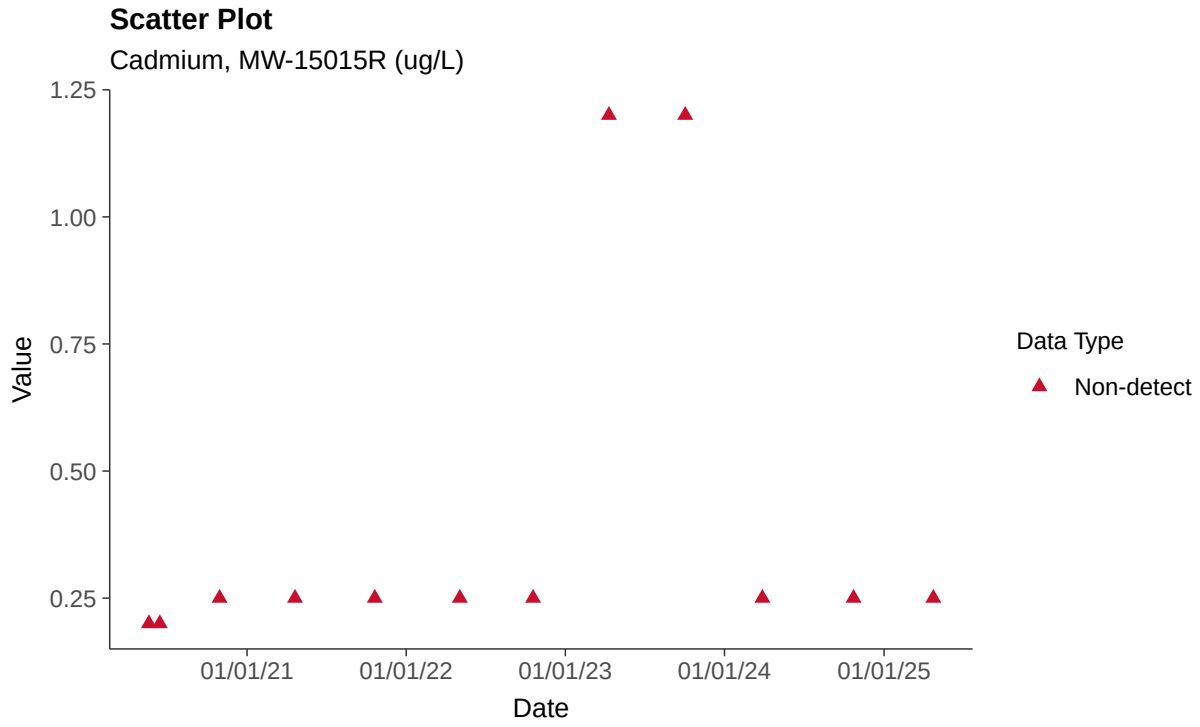
Beryllium, MW-15015R (ug/L)

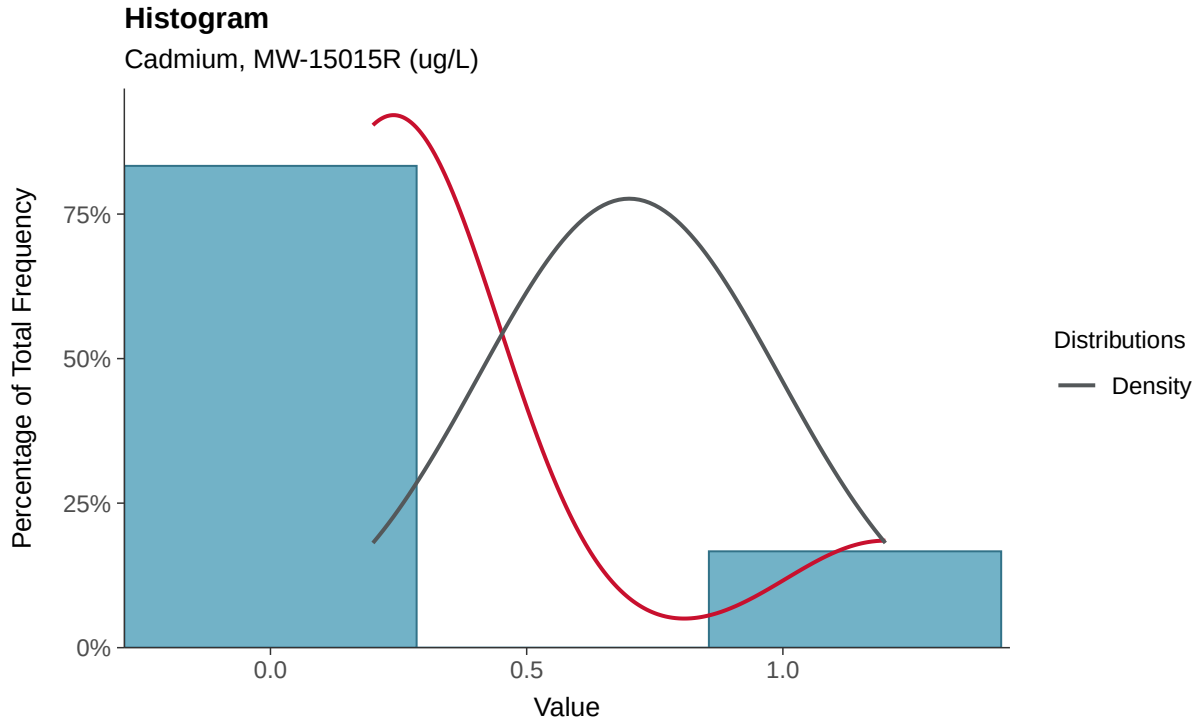



Trend Regression: Piecewise Linear-Linear
Beryllium, MW-15015R (ug/L)
Value
1.25
1.00
0.75
0.50
0.25
0.00
01/01/21
01/01/22
01/01/23
01/01/24
01/01/25
Date
Data Type
Detect
Non-detect

Appendix IV: Cadmium, MW-15015R

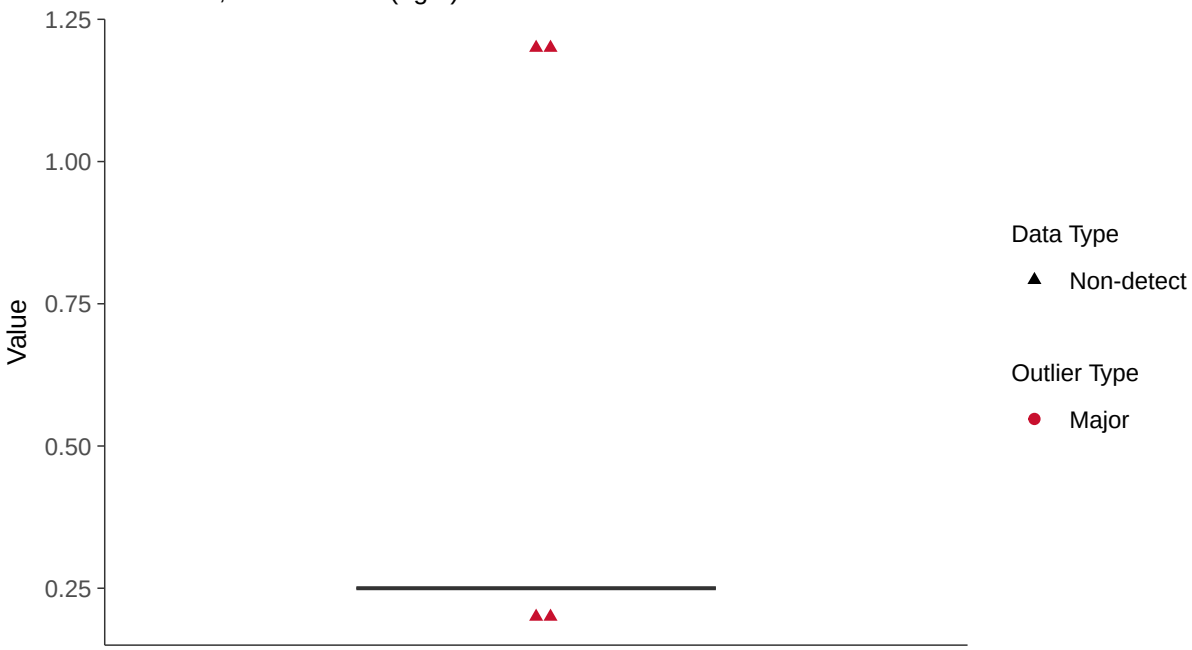
ID: 05_2_106





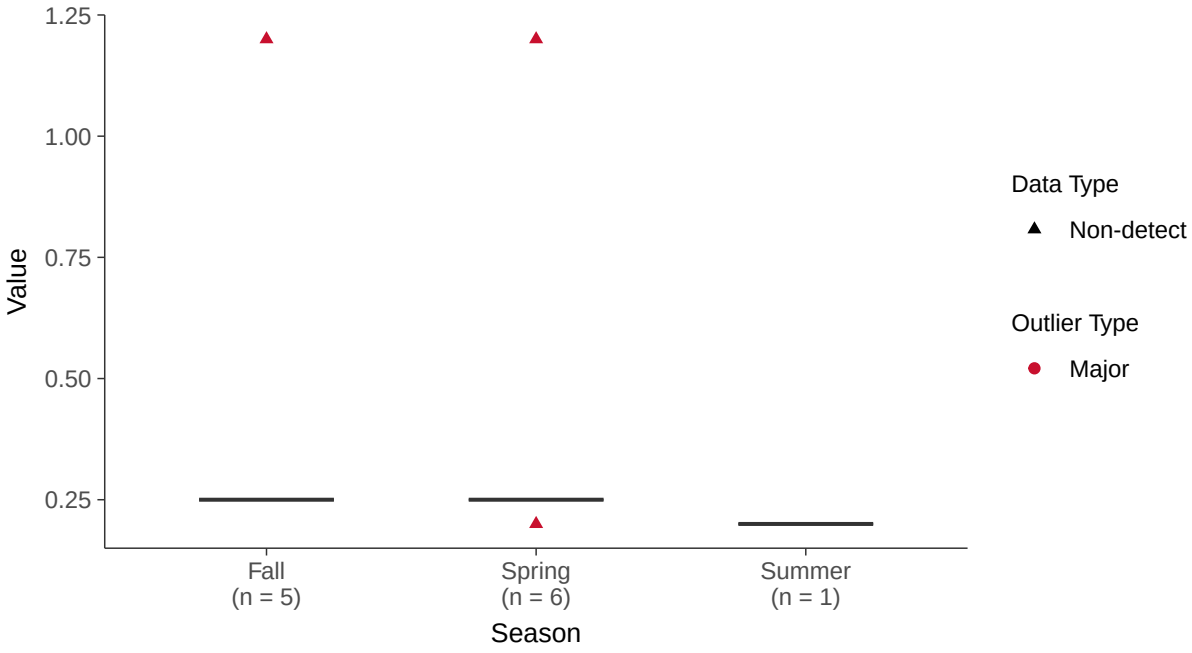
Boxplot

Cadmium, MW-15015R (ug/L)



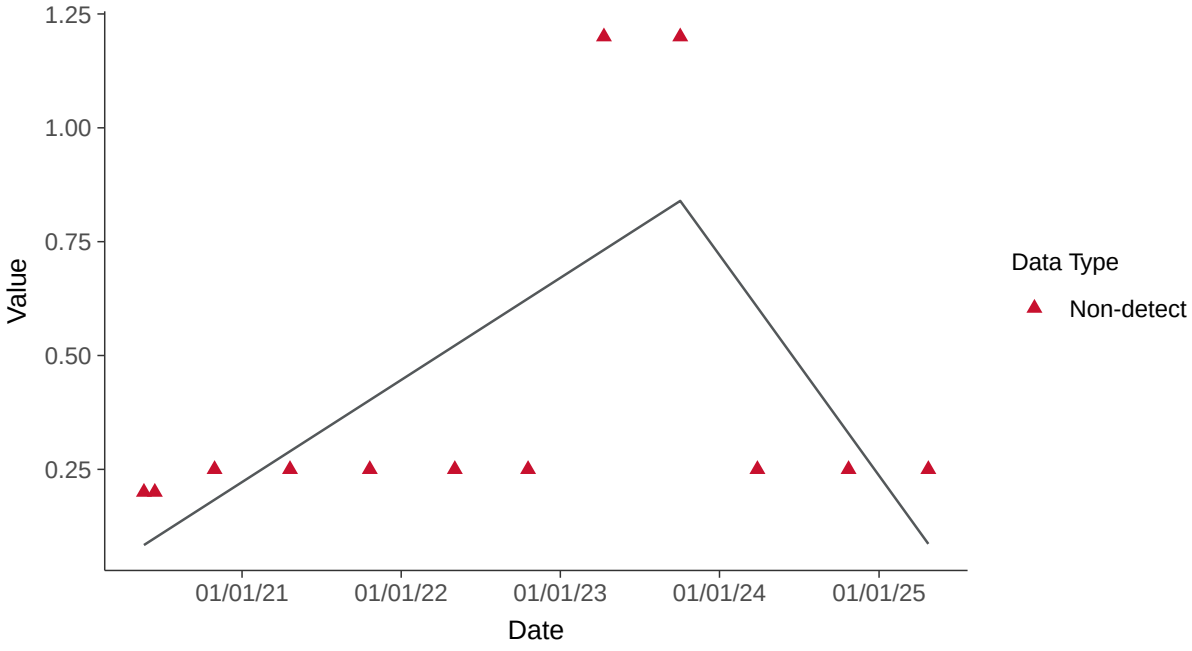
Boxplot by Season

Cadmium, MW-15015R (ug/L)



Trend Regression: Piecewise Linear-Linear

Cadmium, MW-15015R (ug/L)

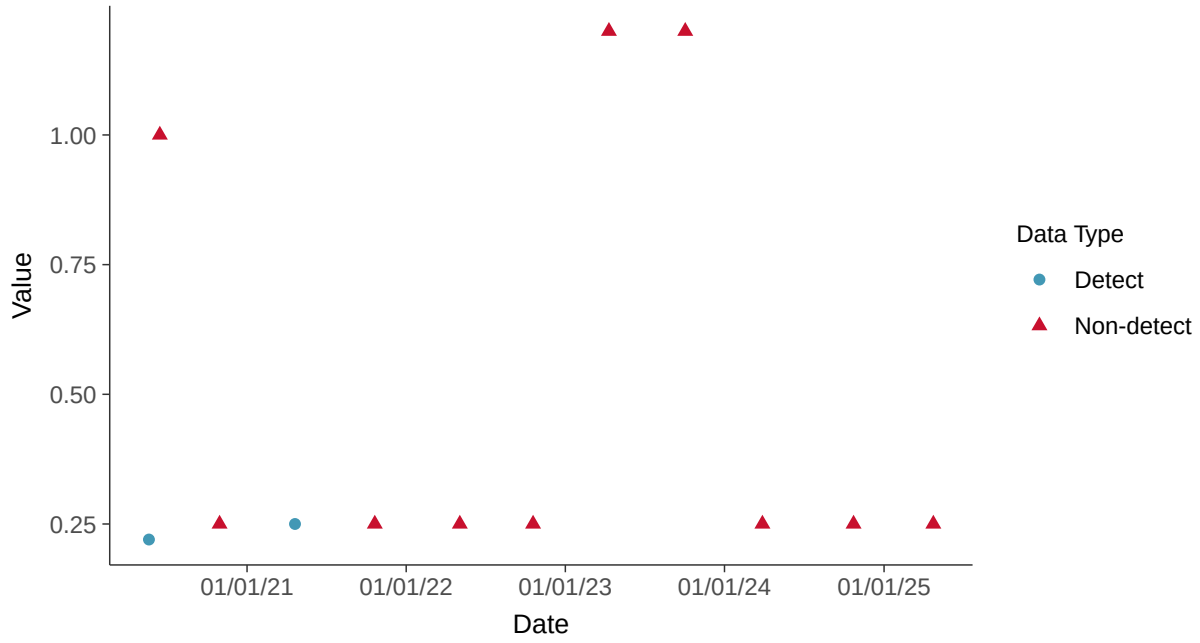


Appendix IV: Chromium, MW-15015R

ID: 05_2_109

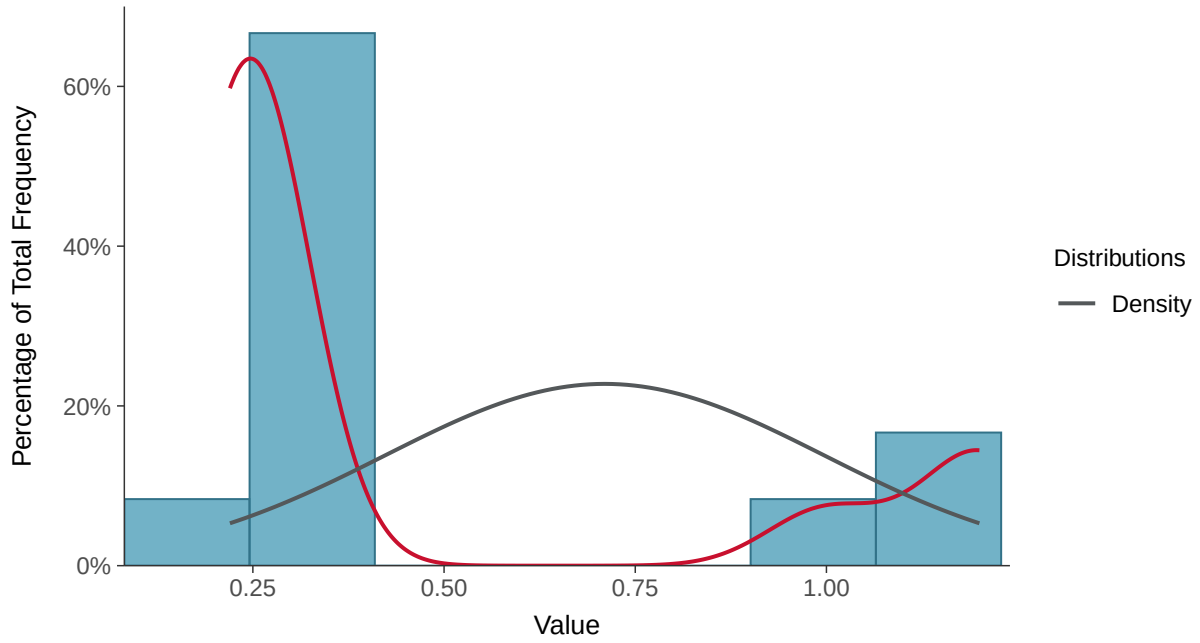
Scatter Plot

Chromium, MW-15015R (ug/L)



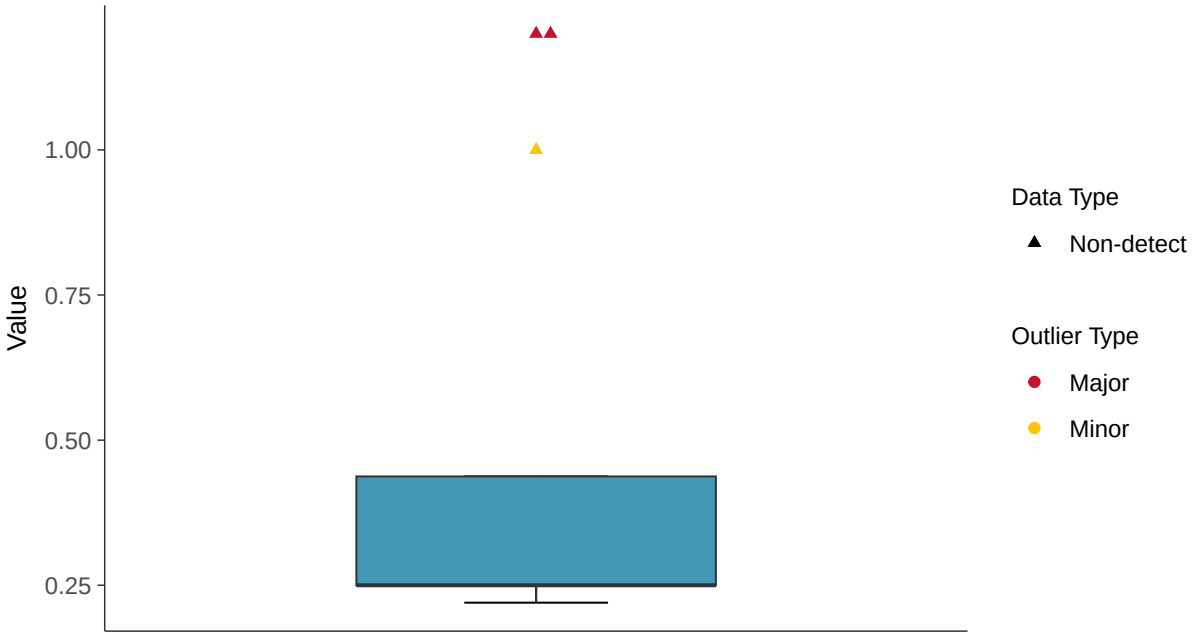
Histogram

Chromium, MW-15015R (ug/L)



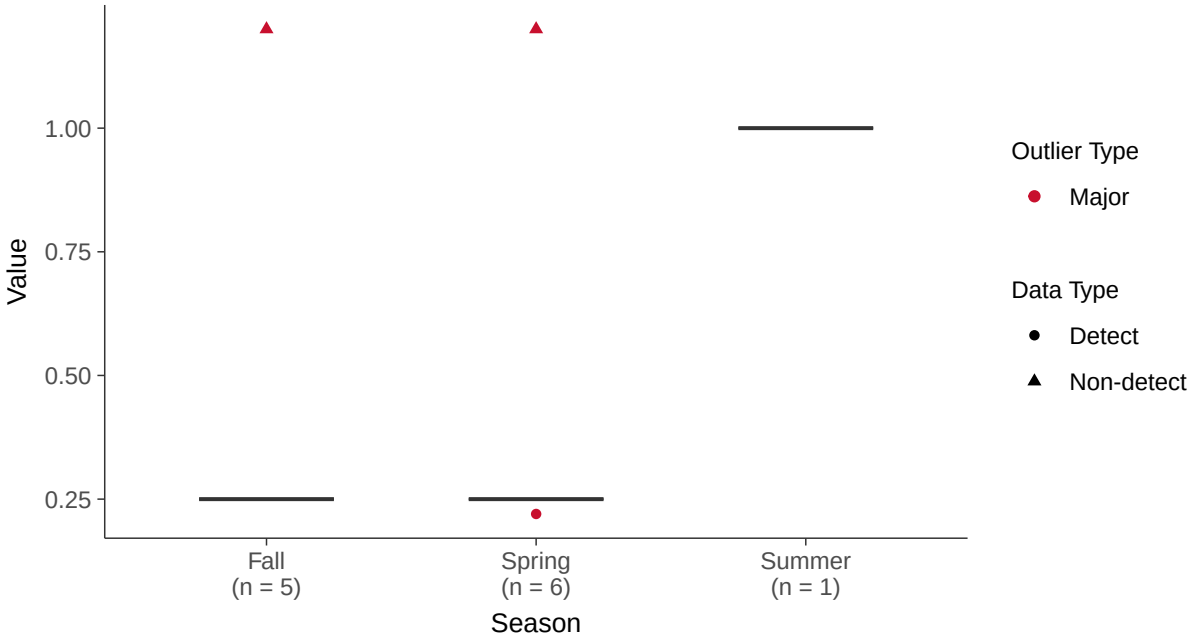
Boxplot

Chromium, MW-15015R (ug/L)



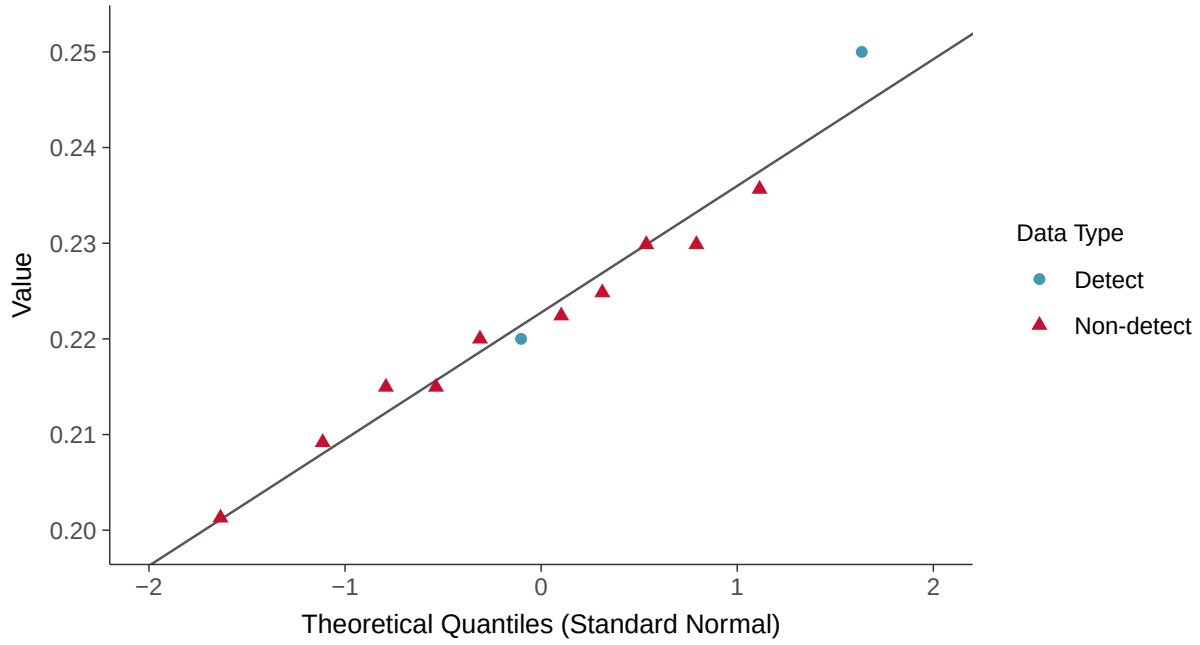
Boxplot by Season

Chromium, MW-15015R (ug/L)



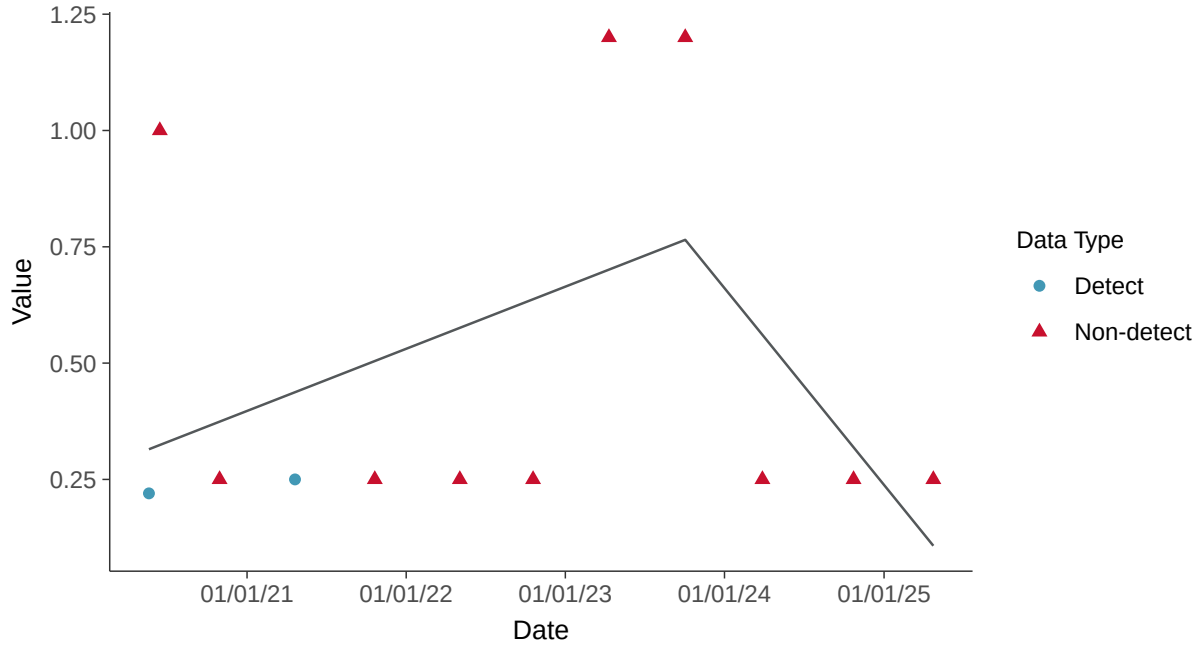
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15015R (ug/L)



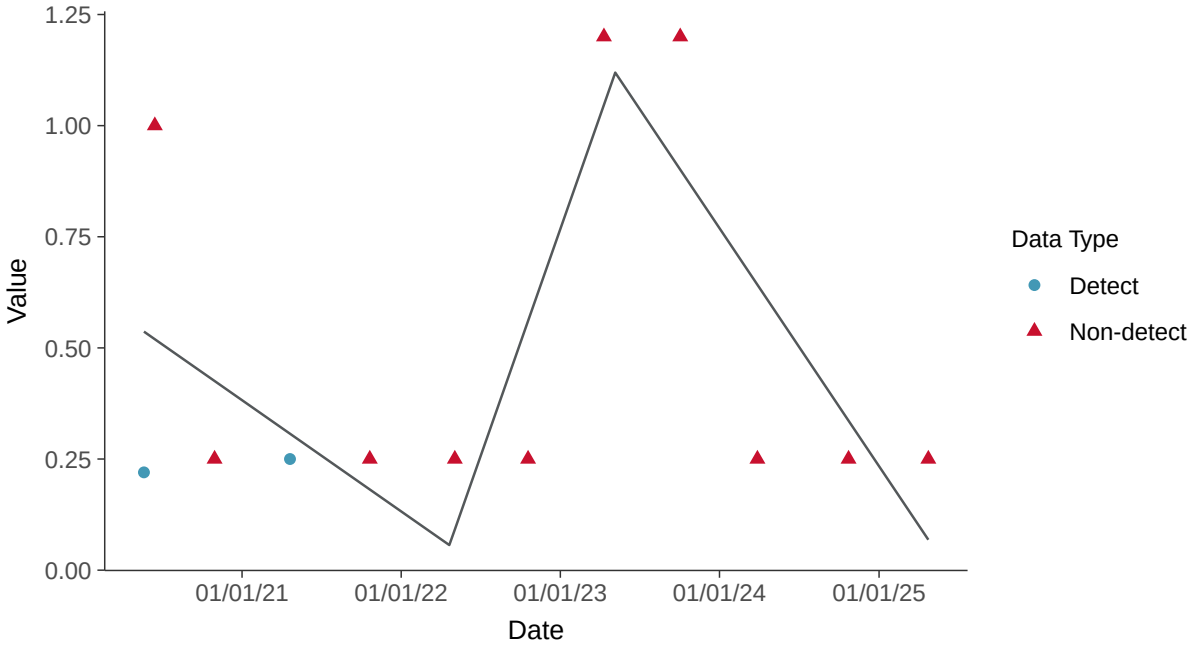
Trend Regression: Piecewise Linear-Linear

Chromium, MW-15015R (ug/L)



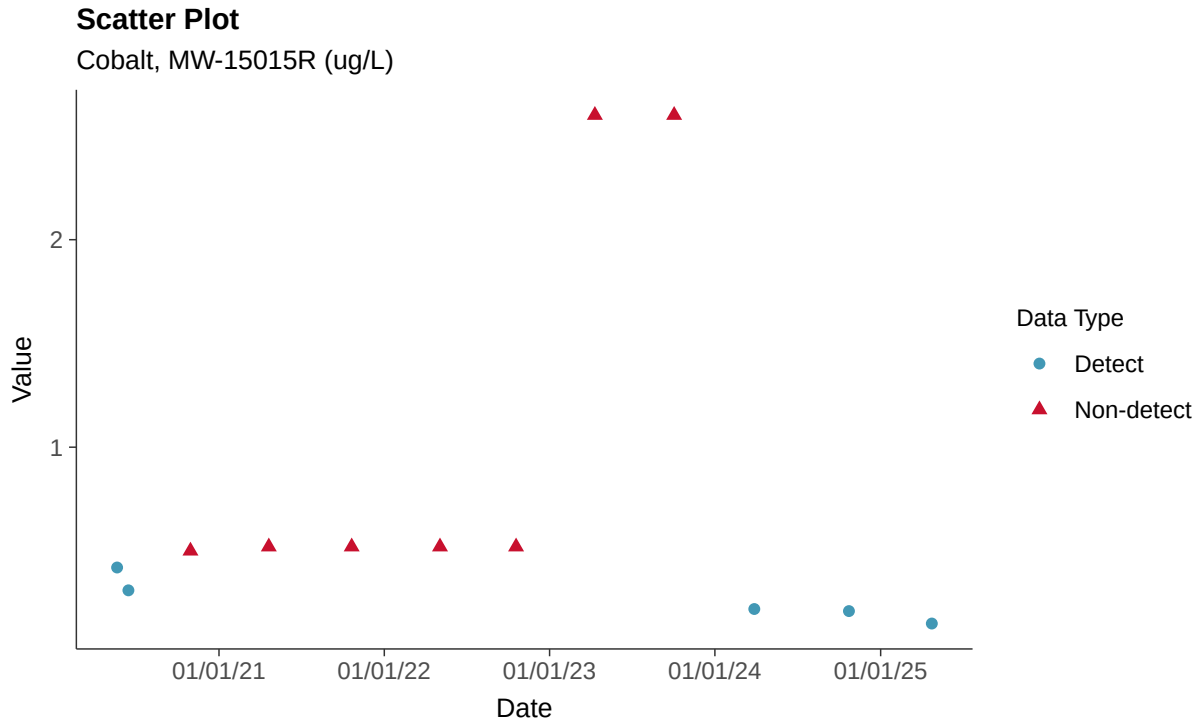
Trend Regression: Piecewise Linear-Linear-Linear

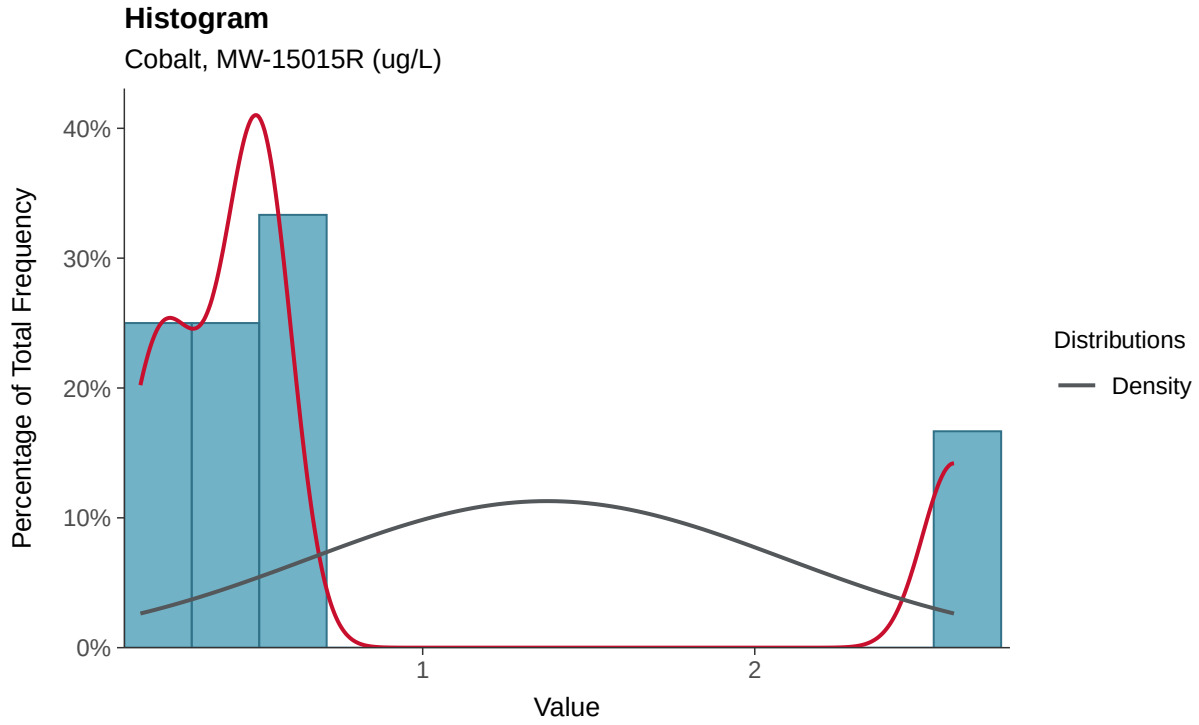
Chromium, MW-15015R (ug/L)



Appendix IV: Cobalt, MW-15015R

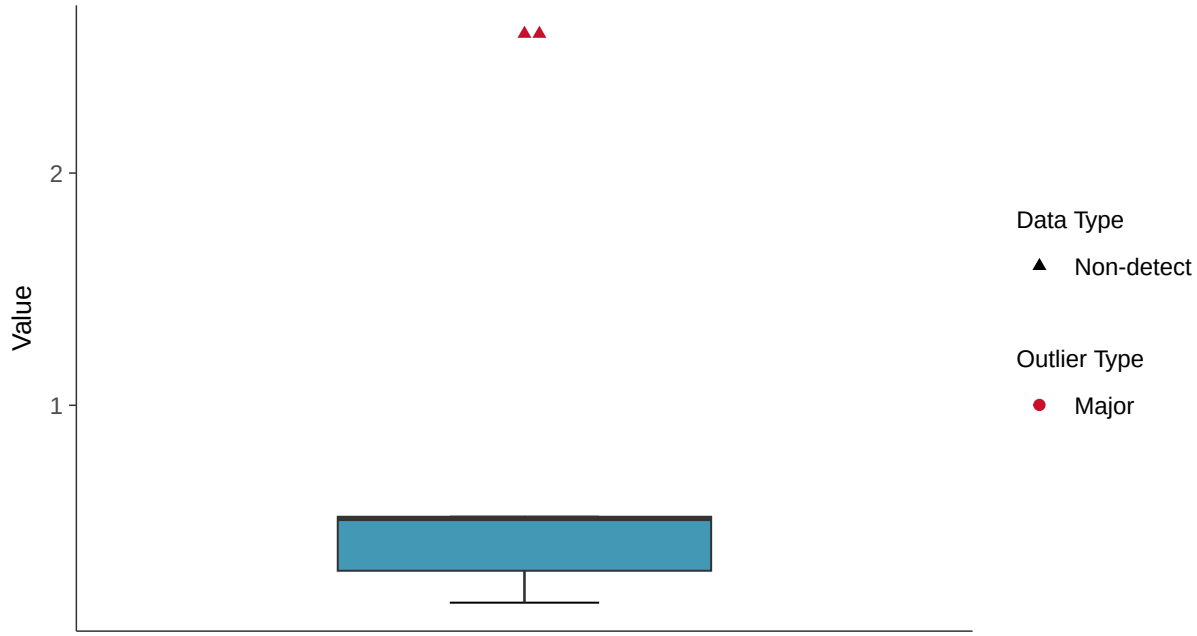
ID: 05_2_110





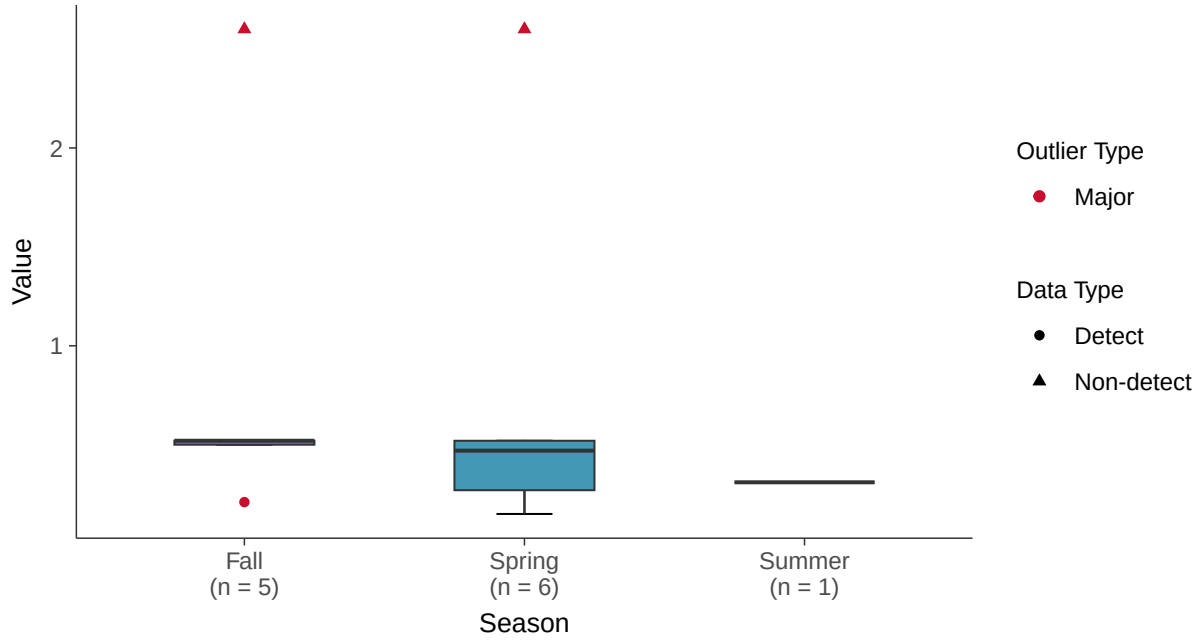
Boxplot

Cobalt, MW-15015R (ug/L)



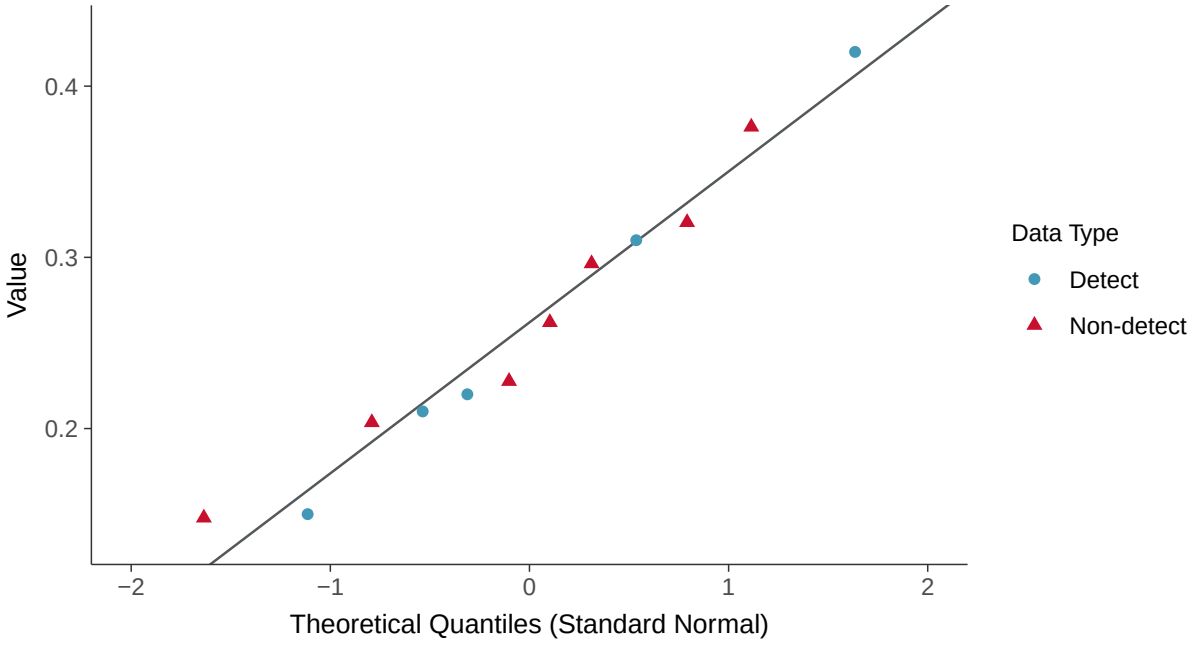
Boxplot by Season

Cobalt, MW-15015R (ug/L)



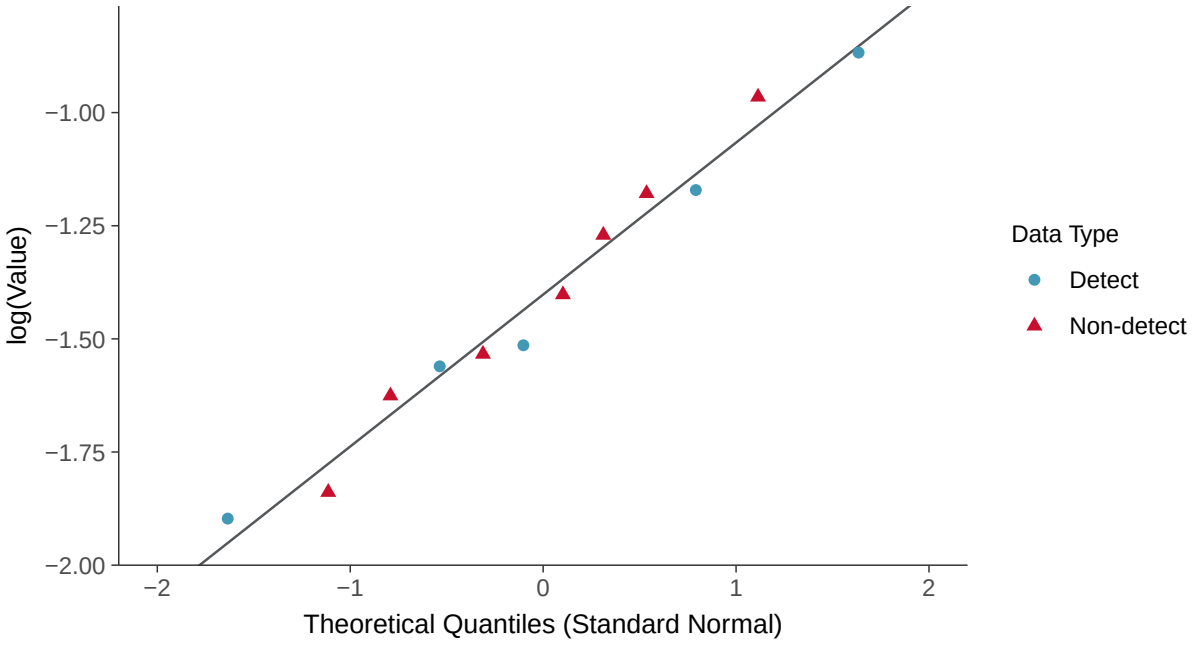
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15015R (ug/L)



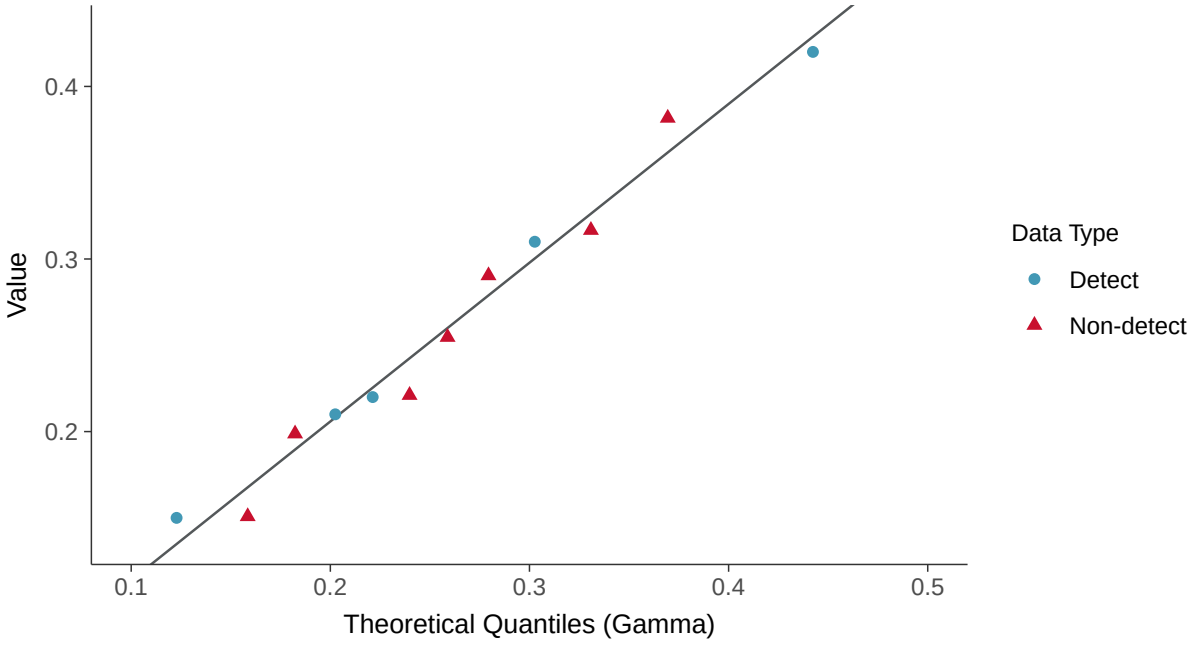
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15015R (ug/L)



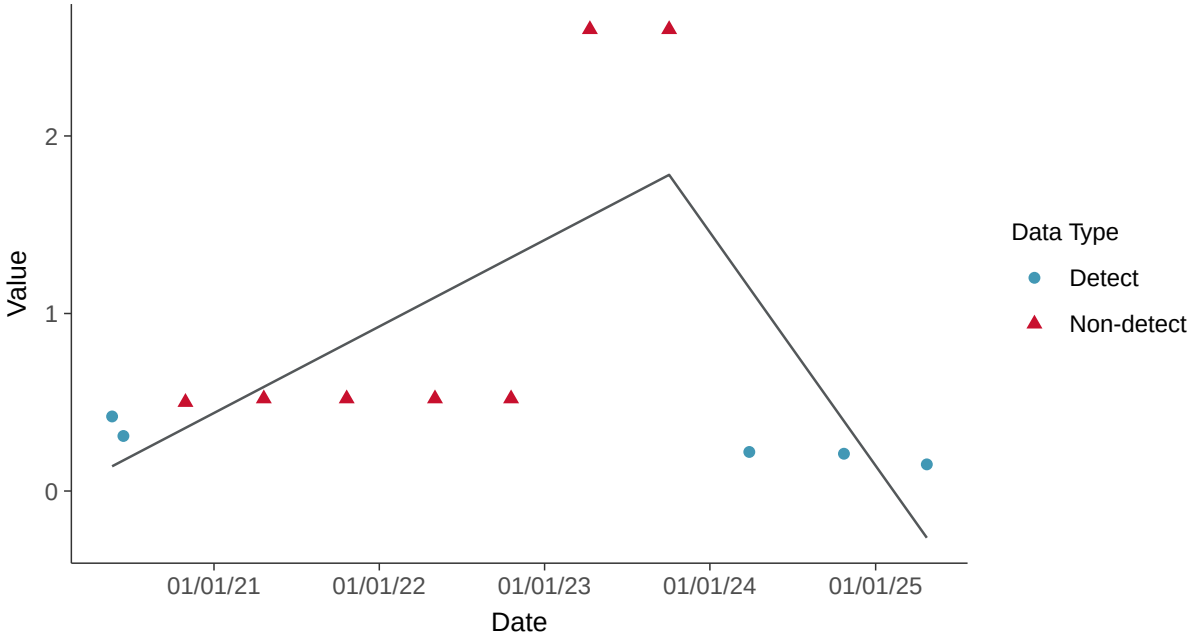
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15015R (ug/L)



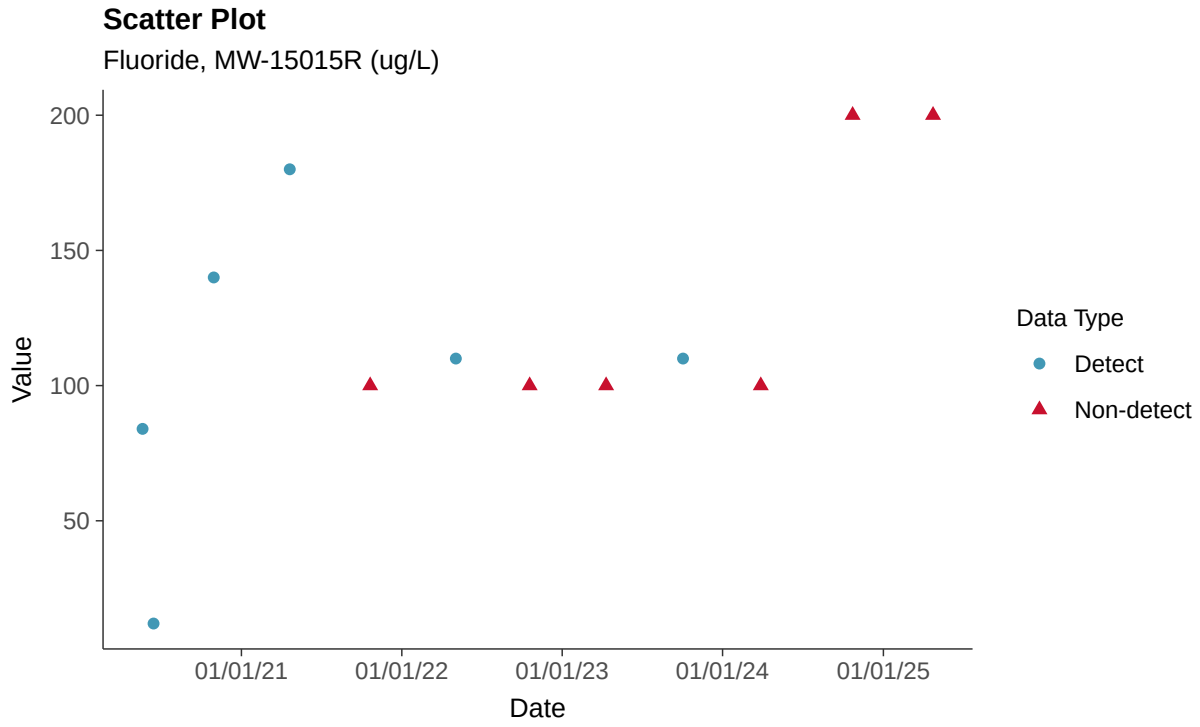
Trend Regression: Piecewise Linear-Linear

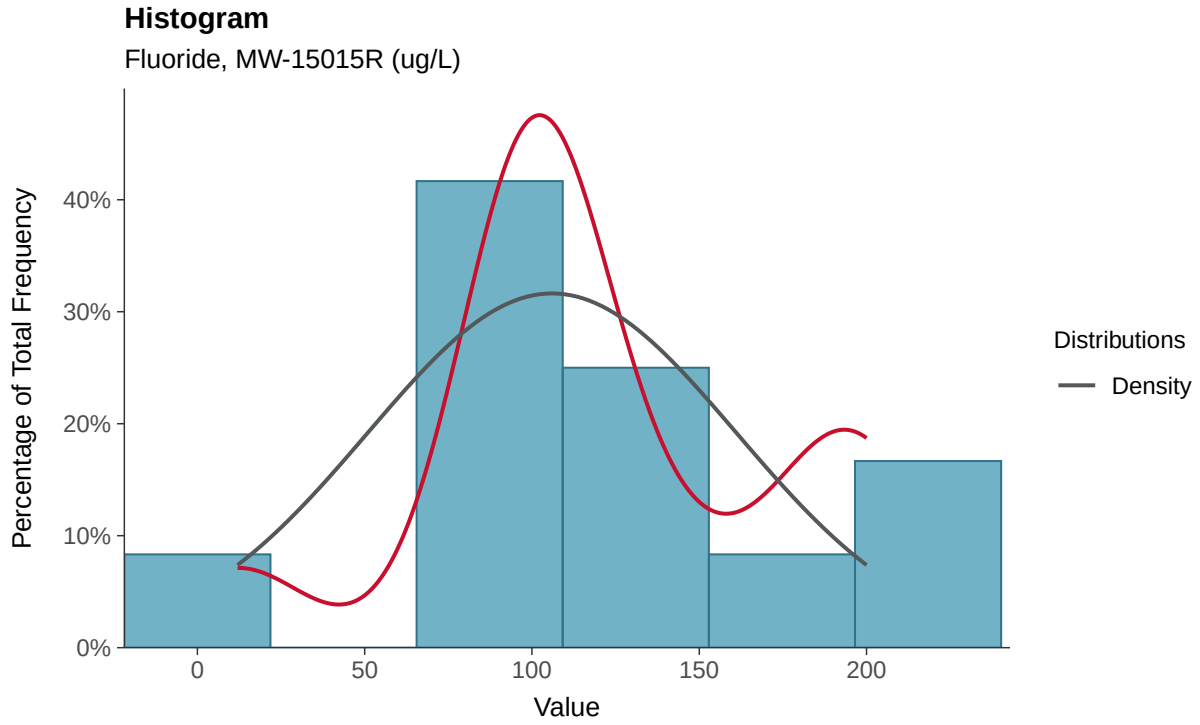
Cobalt, MW-15015R (ug/L)



Appendix IV: Fluoride, MW-15015R

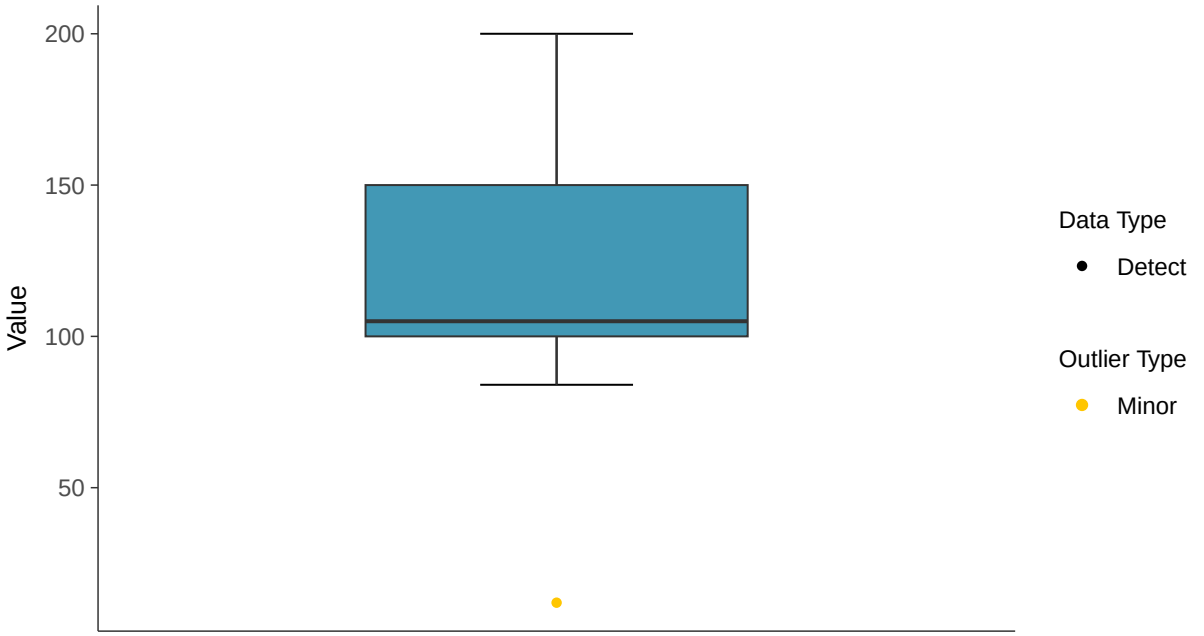
ID: 05_2_114





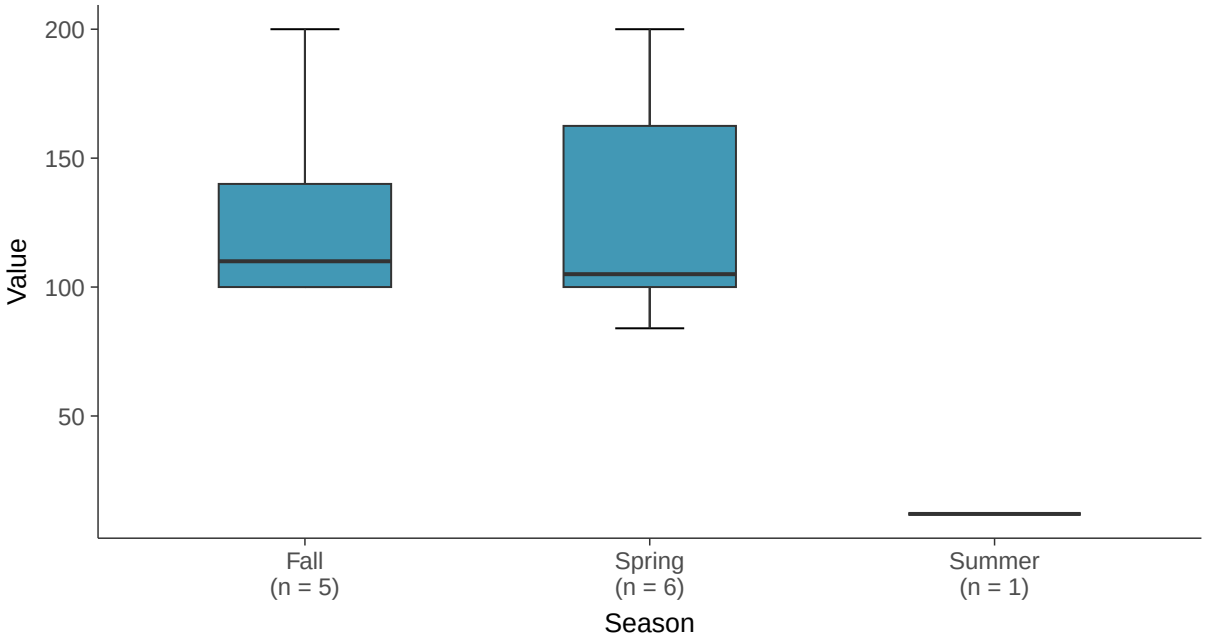
Boxplot

Fluoride, MW-15015R (ug/L)



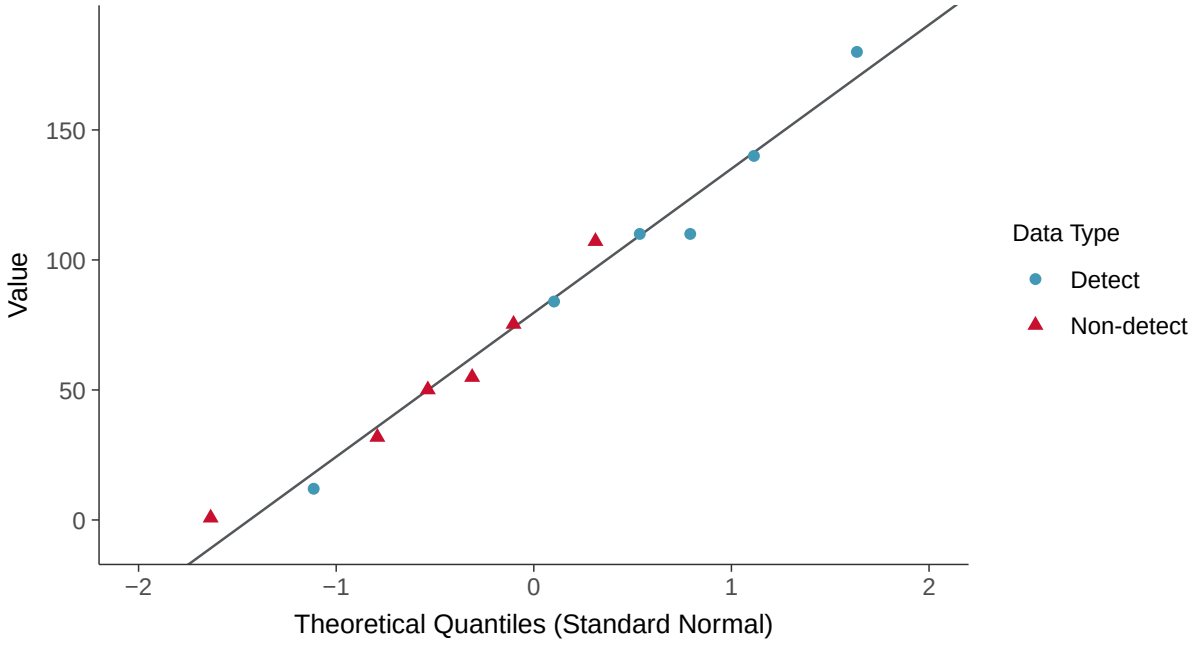
Boxplot by Season

Fluoride, MW-15015R (ug/L)



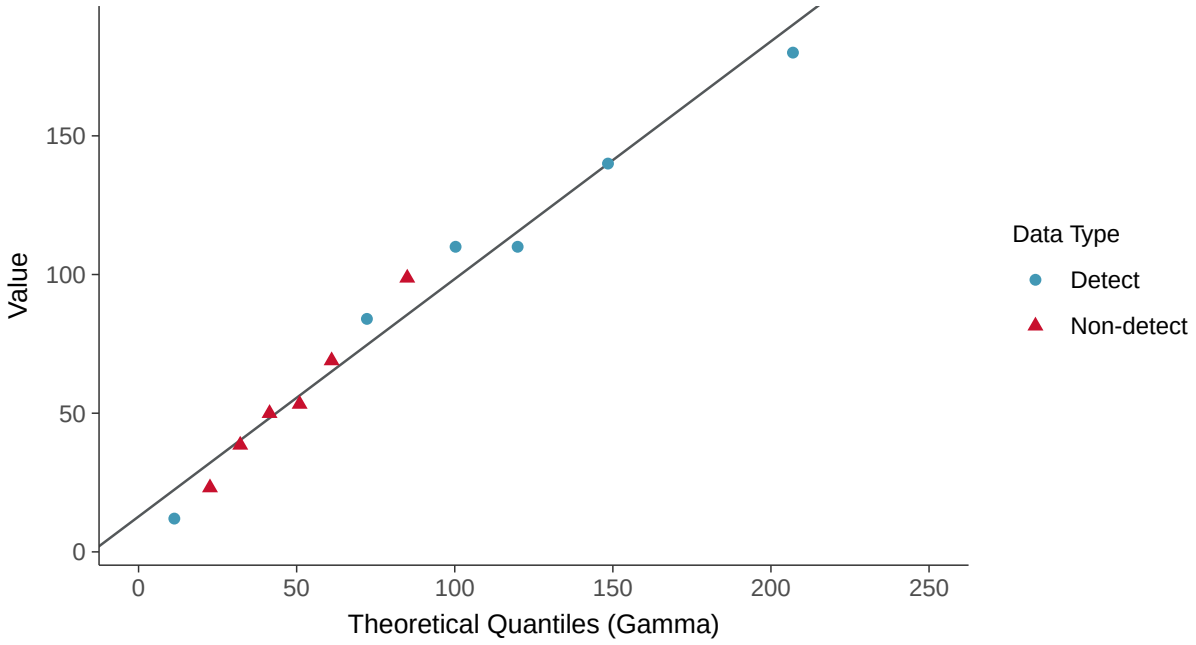
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15015R (ug/L)



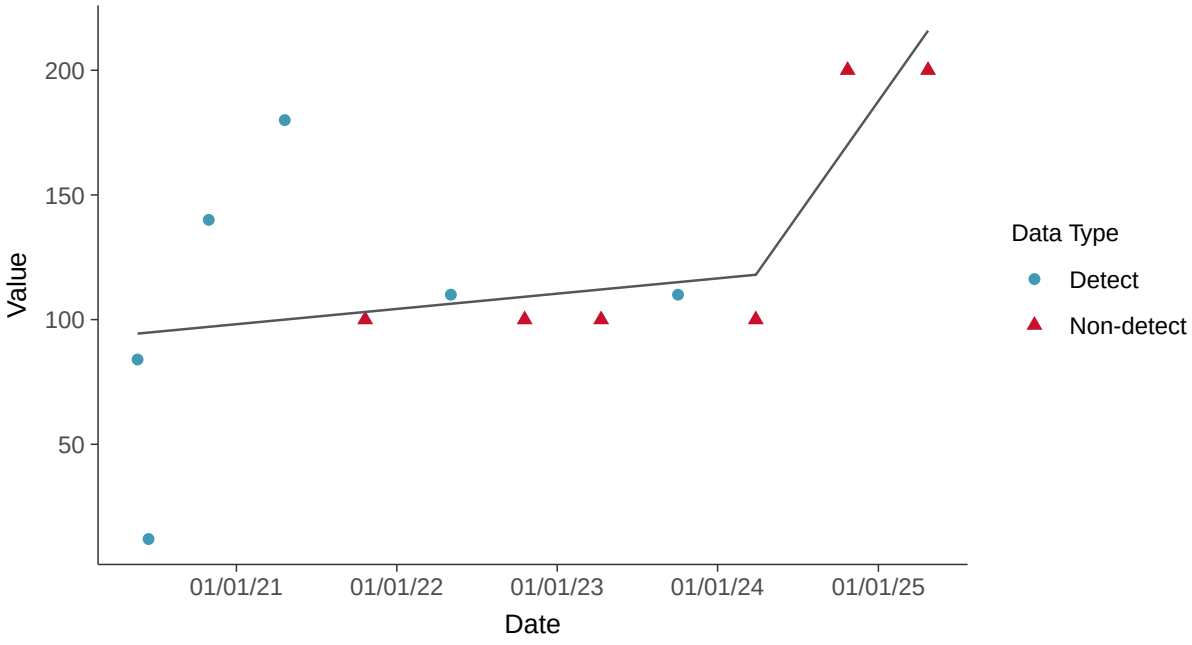
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15015R (ug/L)



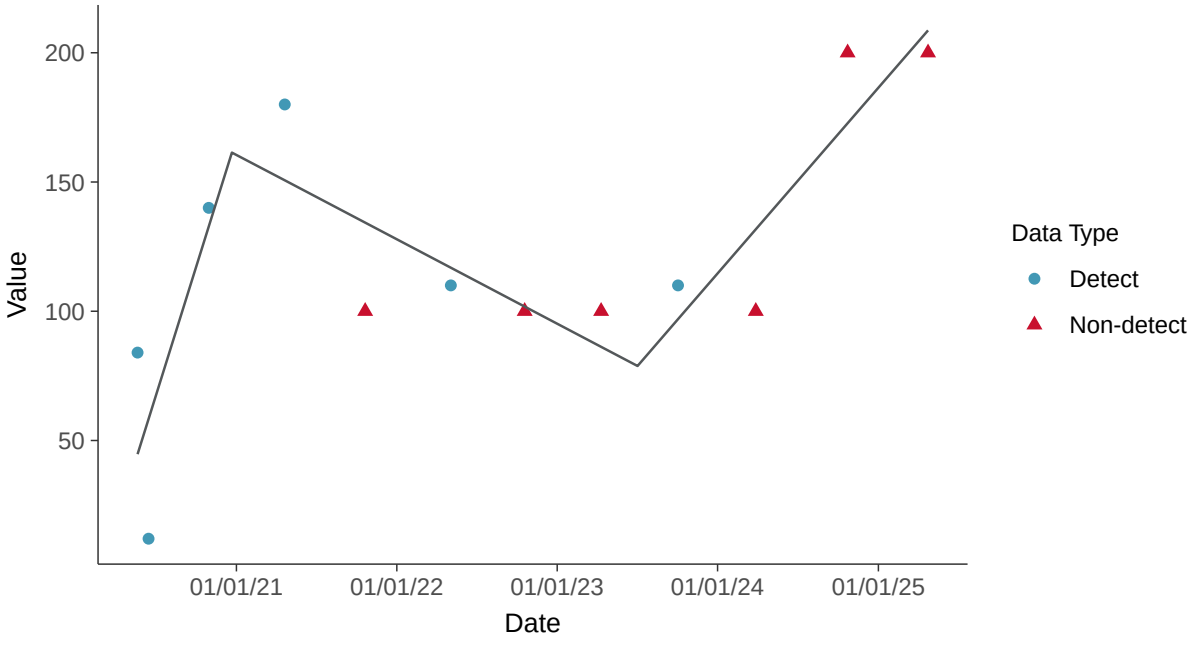
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-15015R (ug/L)



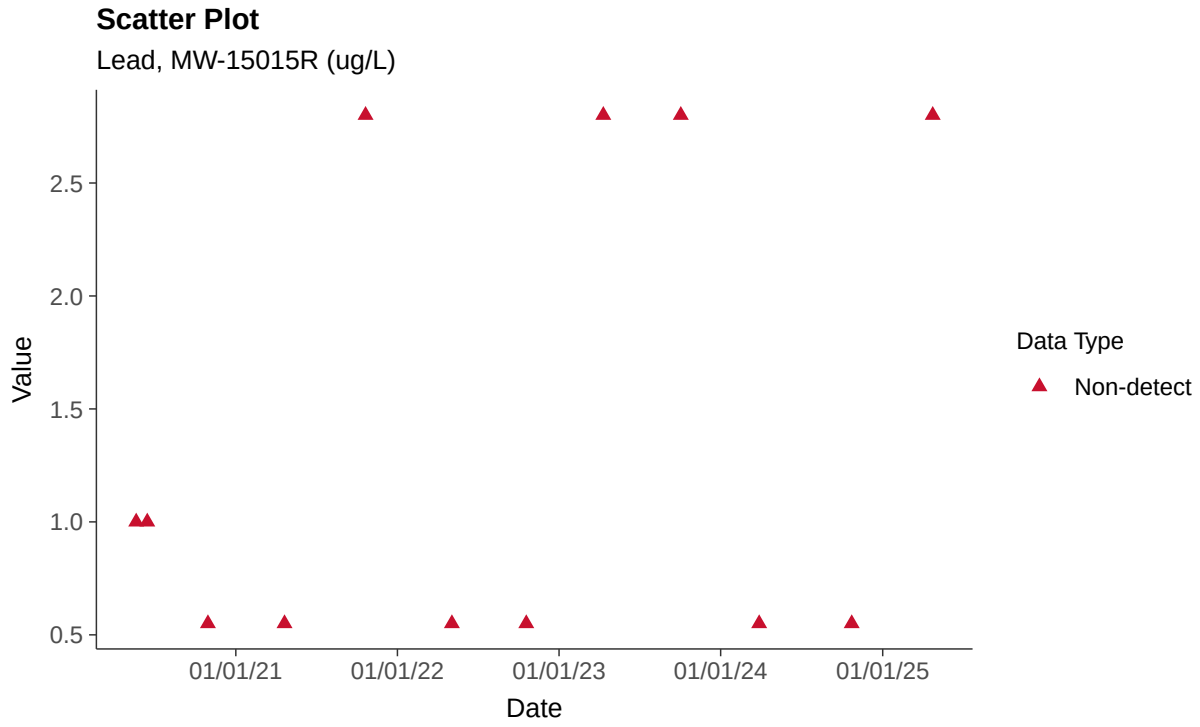
Trend Regression: Piecewise Linear-Linear-Linear

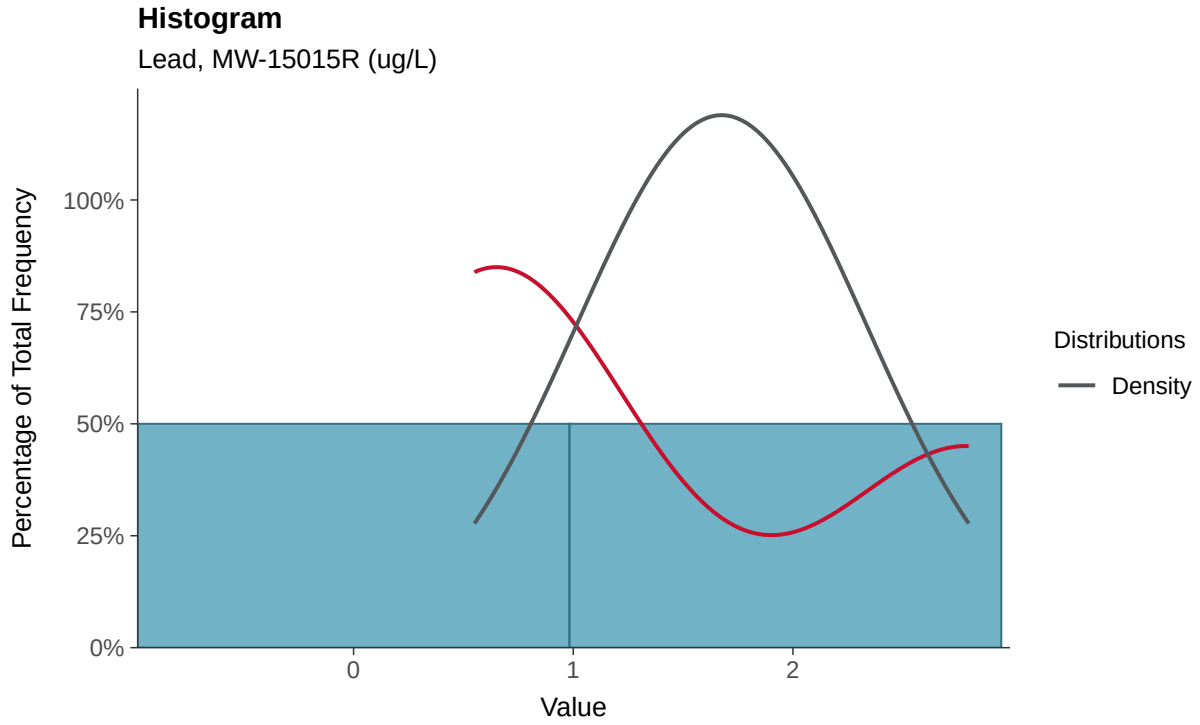
Fluoride, MW-15015R (ug/L)



Appendix IV: Lead, MW-15015R

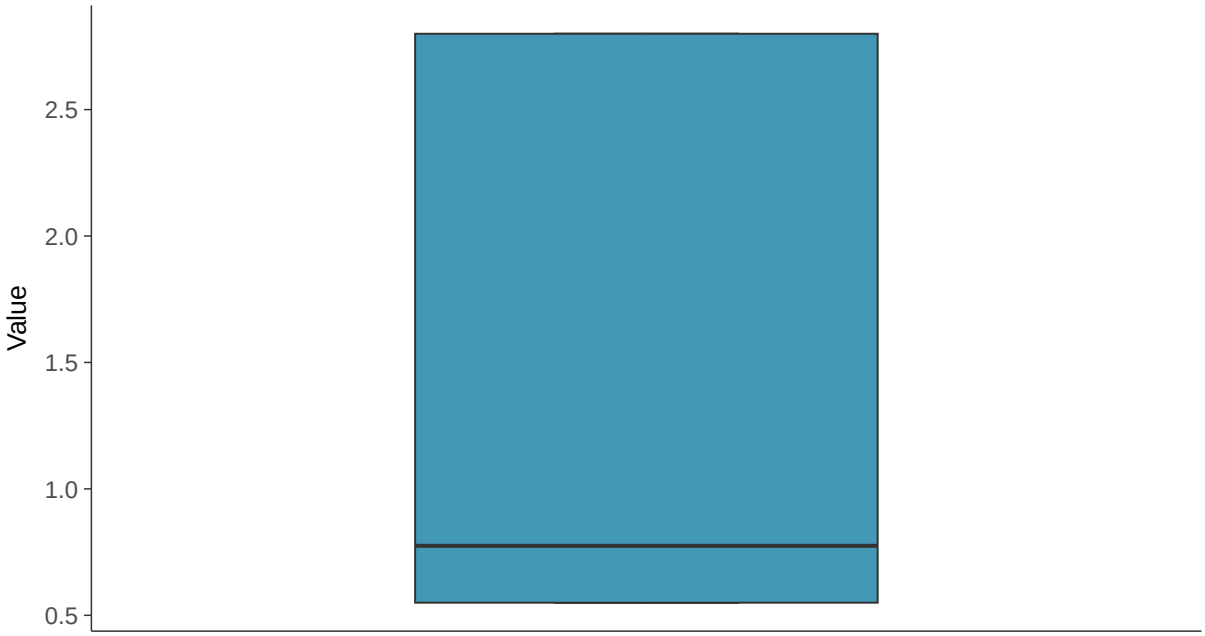
ID: 05_2_116





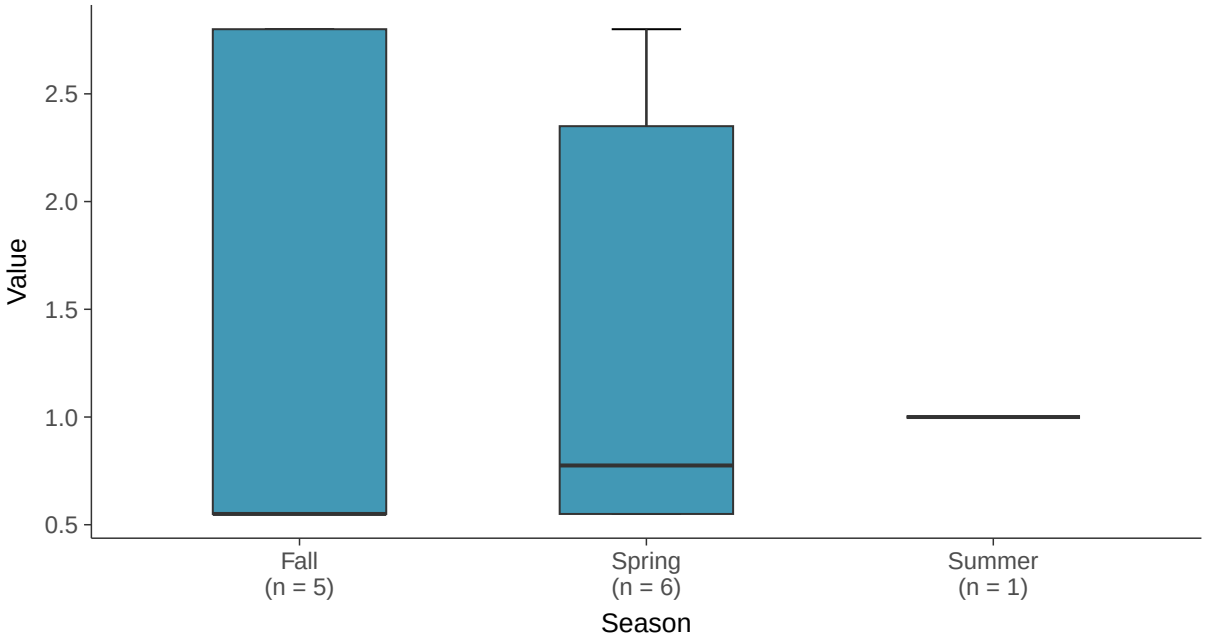
Boxplot

Lead, MW-15015R (ug/L)



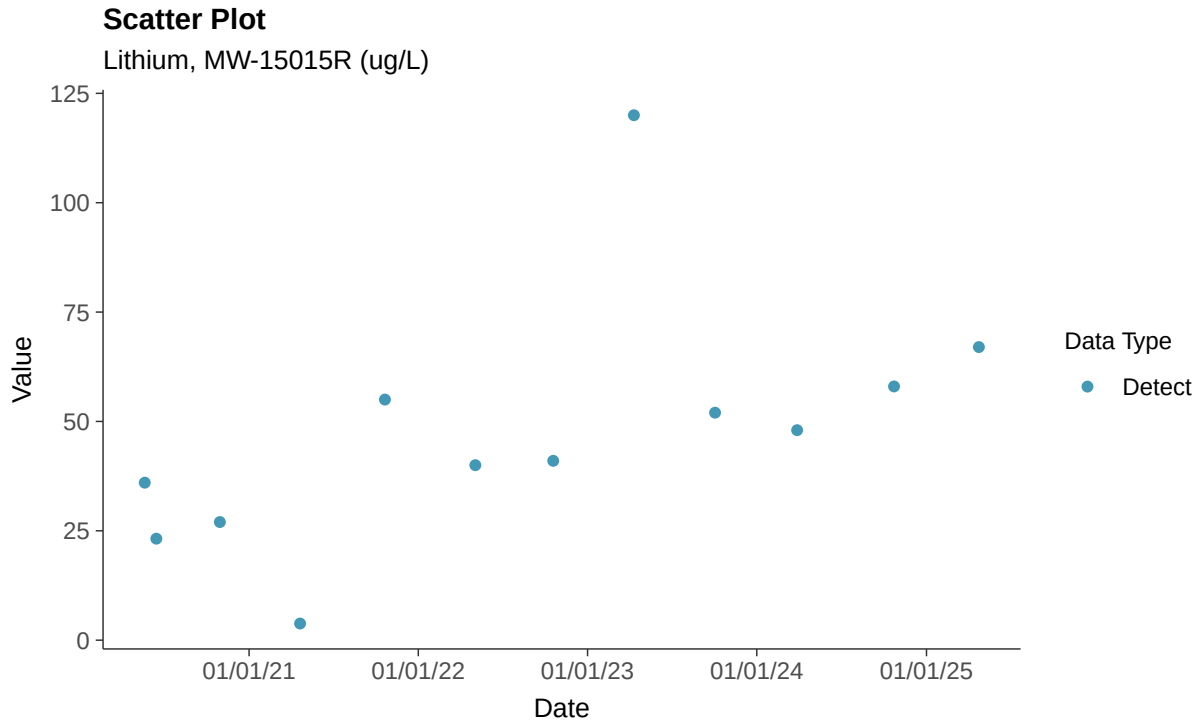
Boxplot by Season

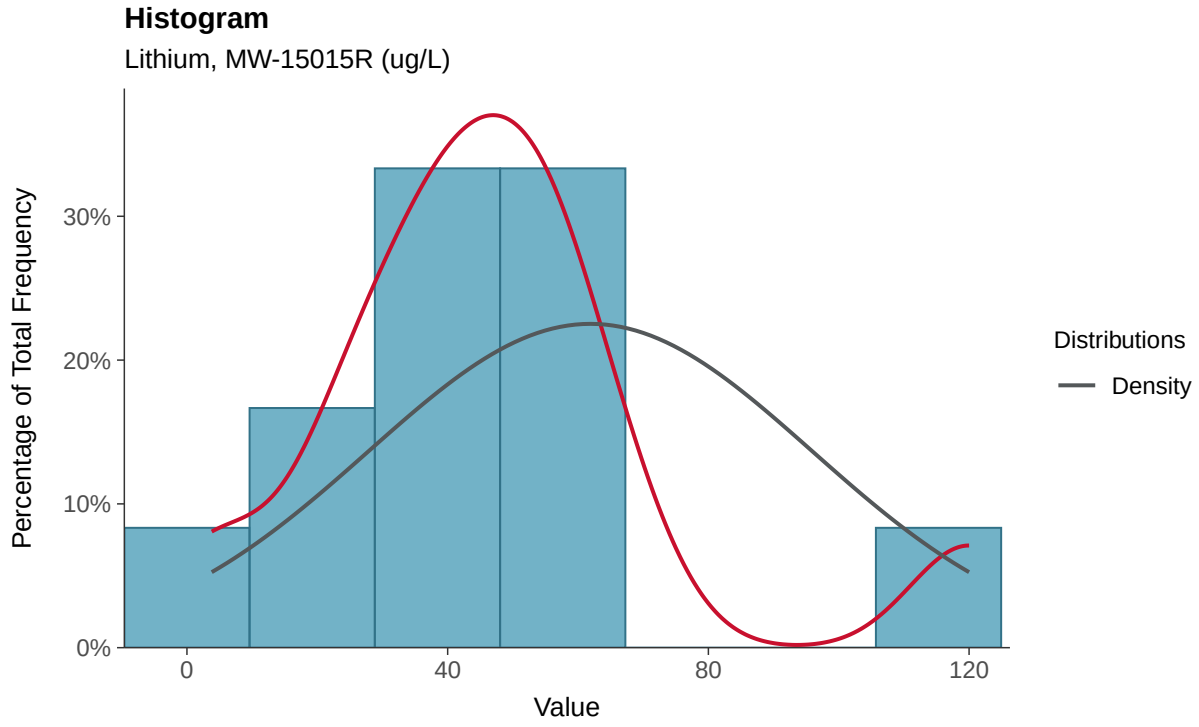
Lead, MW-15015R (ug/L)



Appendix IV: Lithium, MW-15015R

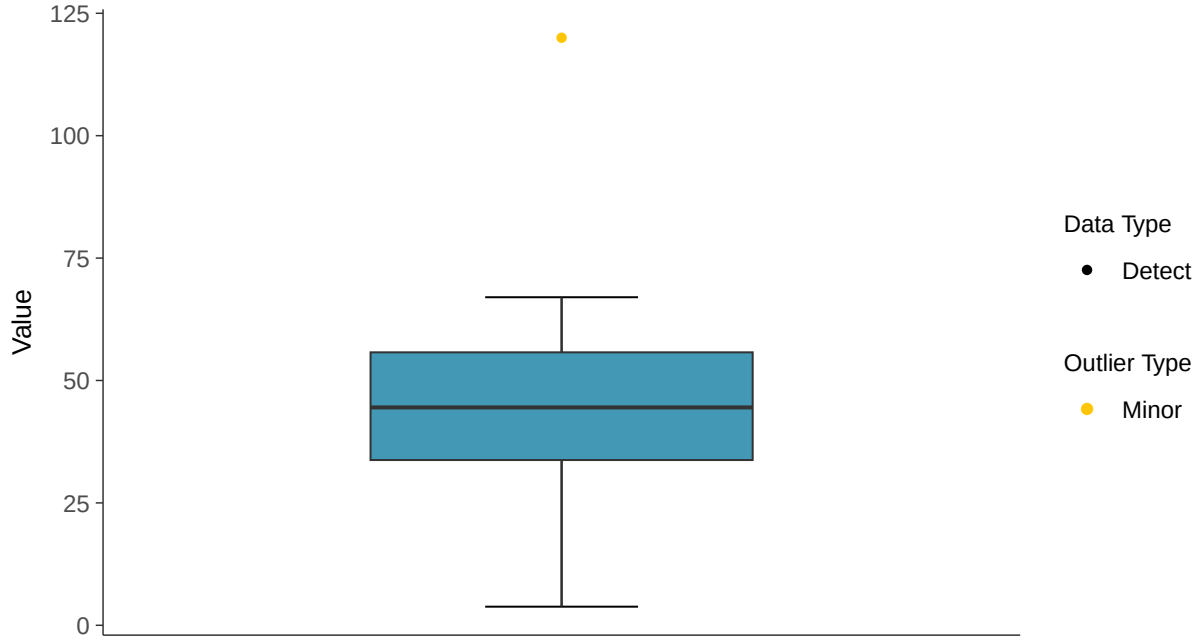
ID: 05_2_117





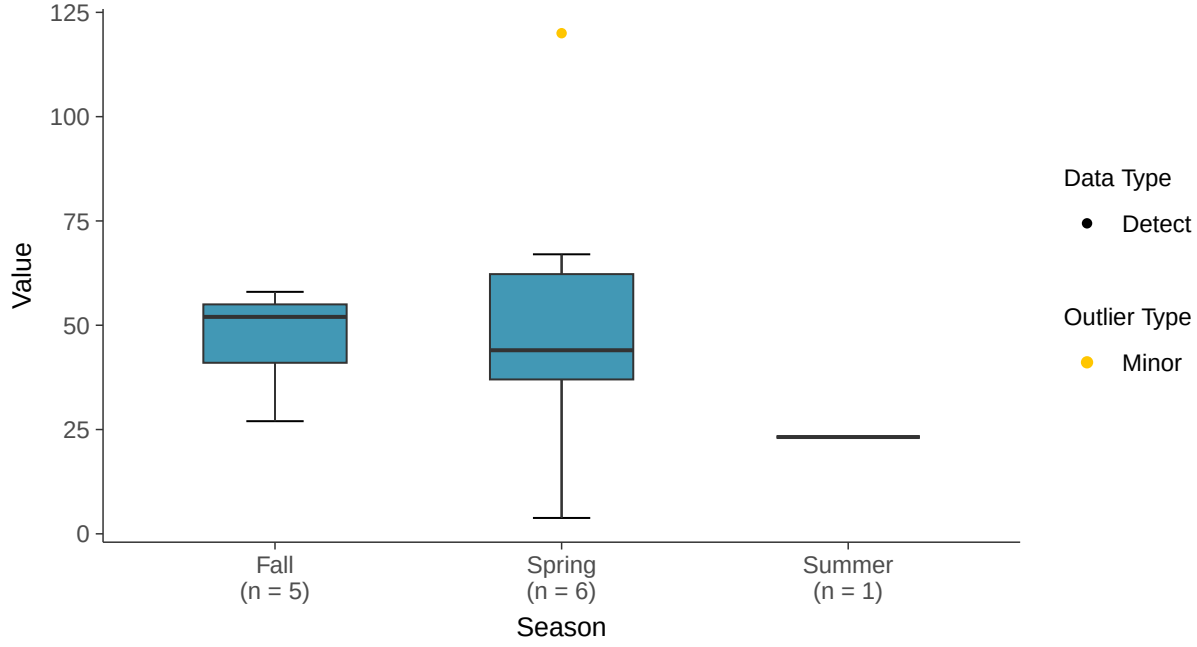
Boxplot

Lithium, MW-15015R (ug/L)



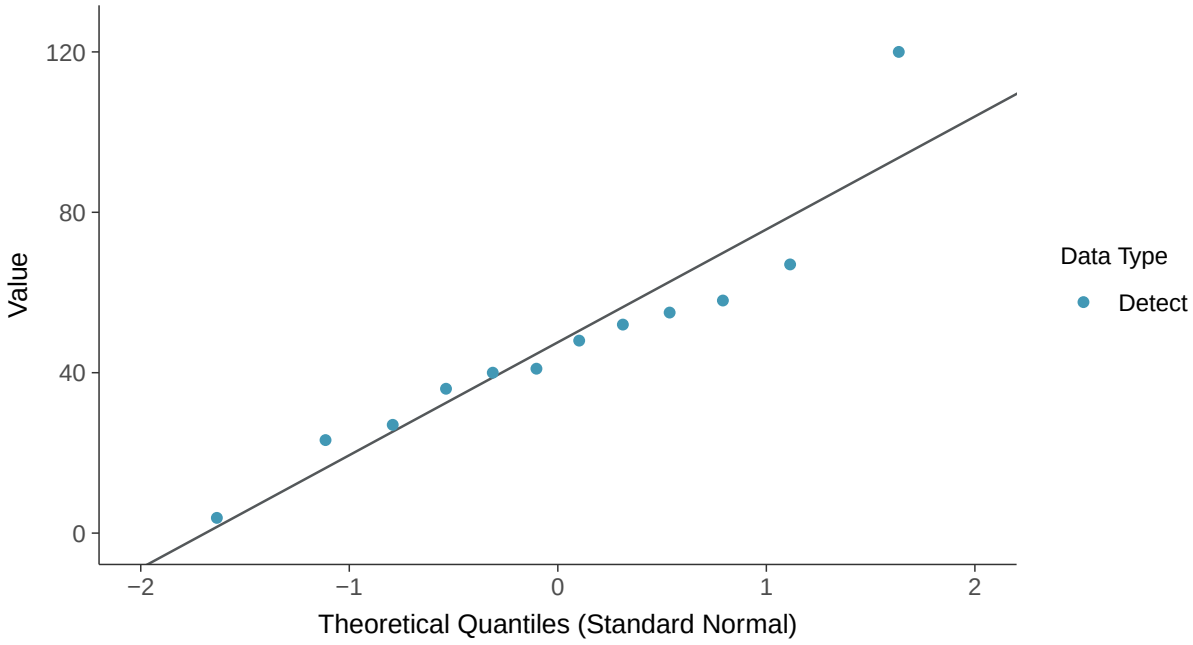
Boxplot by Season

Lithium, MW-15015R (ug/L)



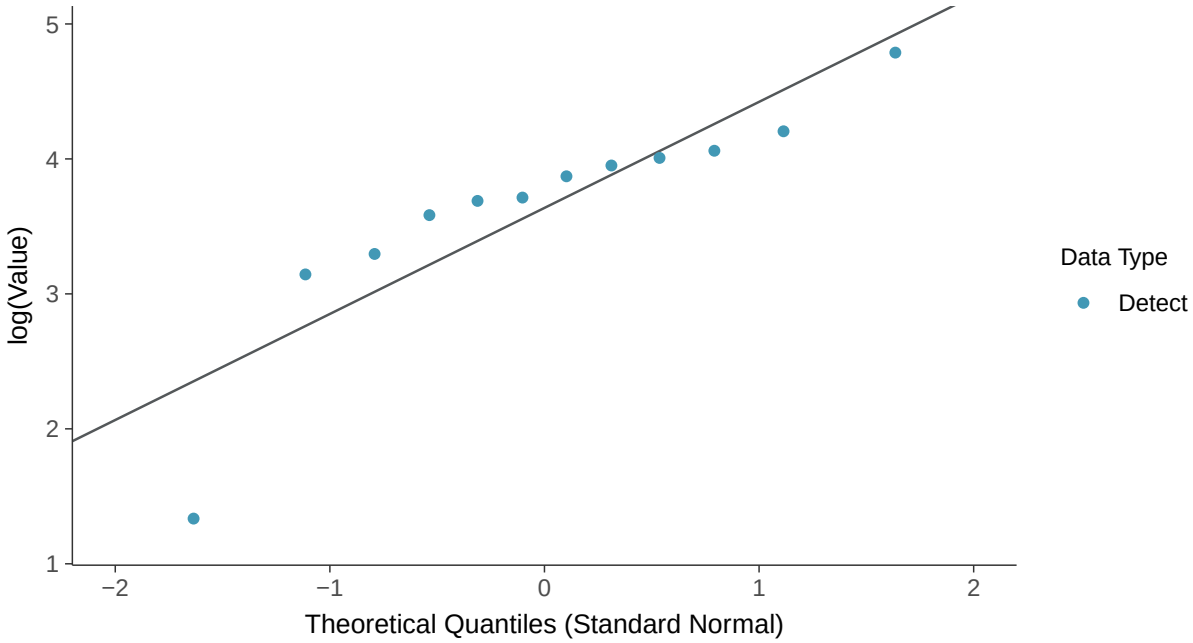
Normal Q-Q plot

Lithium, MW-15015R (ug/L)



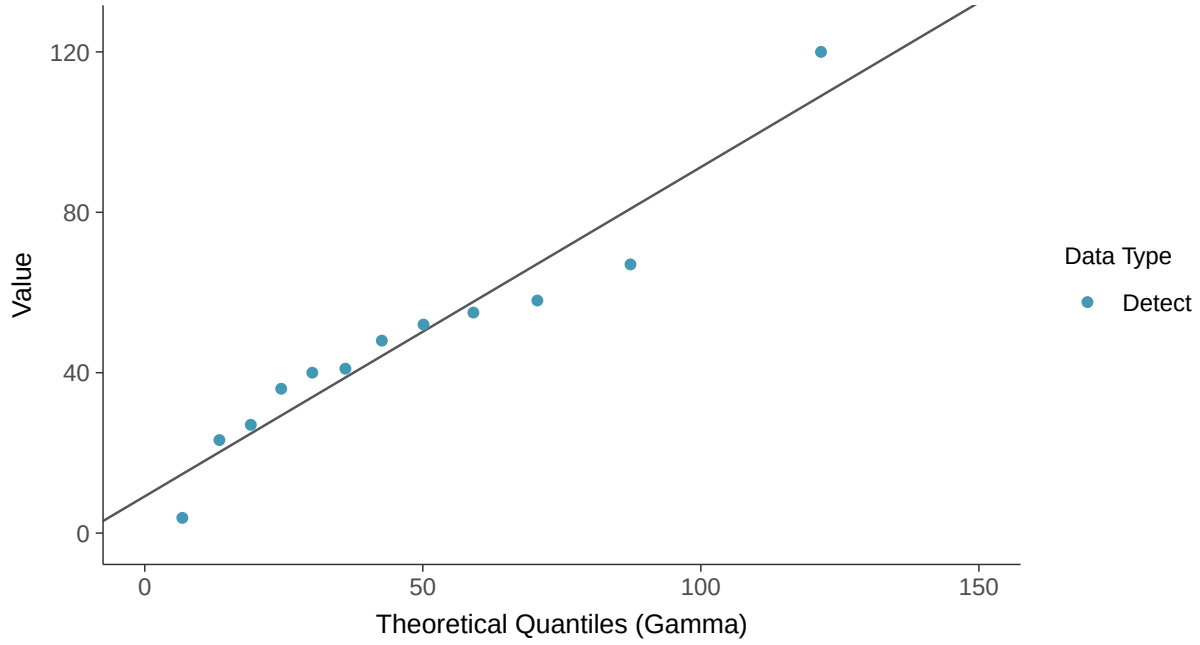
Lognormal Q-Q plot

Lithium, MW-15015R (ug/L)



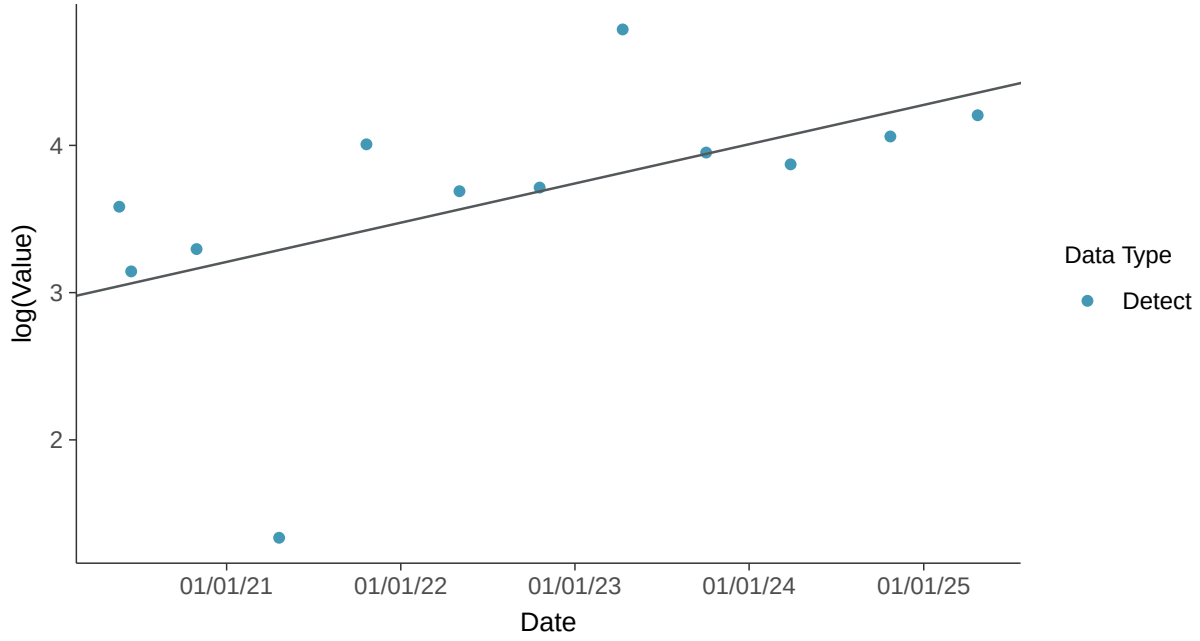
Gamma Q-Q plot

Lithium, MW-15015R (ug/L)



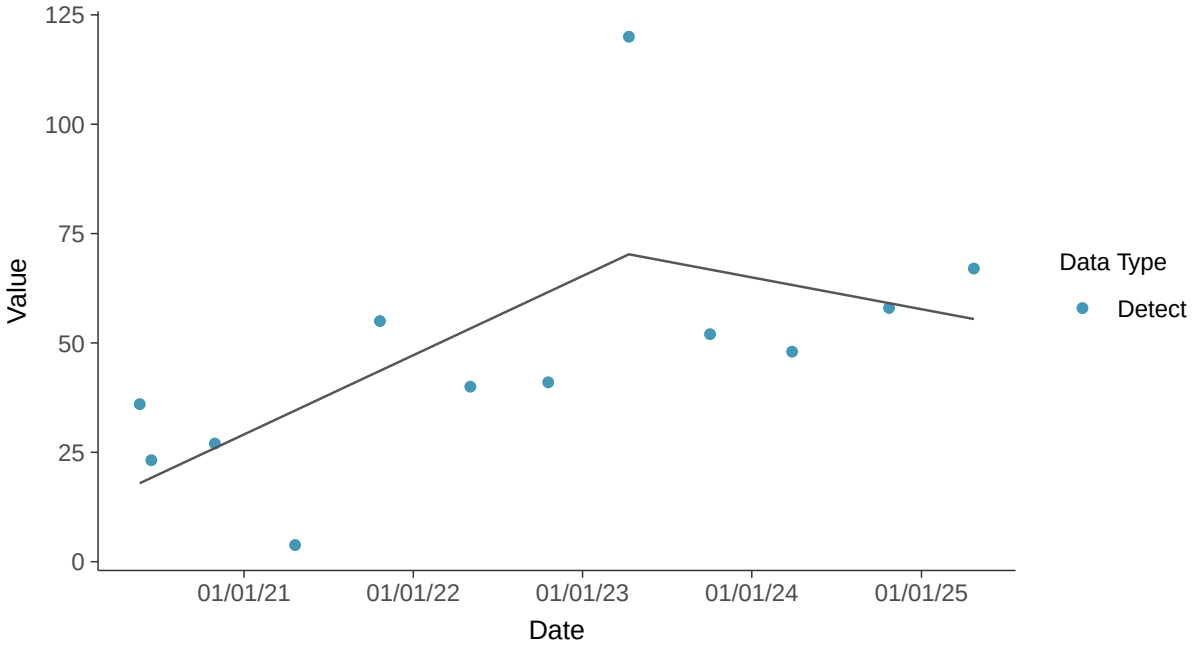
Trend Regression: Lognormal MLE

Lithium, MW-15015R (ug/L)



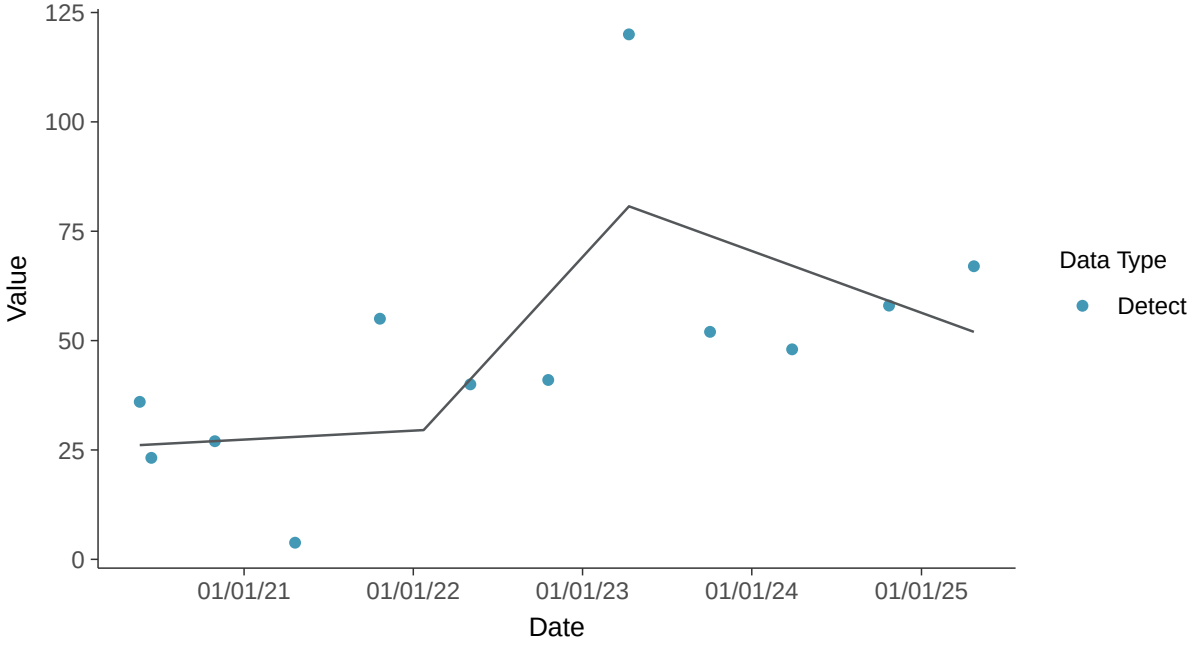
Trend Regression: Piecewise Linear-Linear

Lithium, MW-15015R (ug/L)



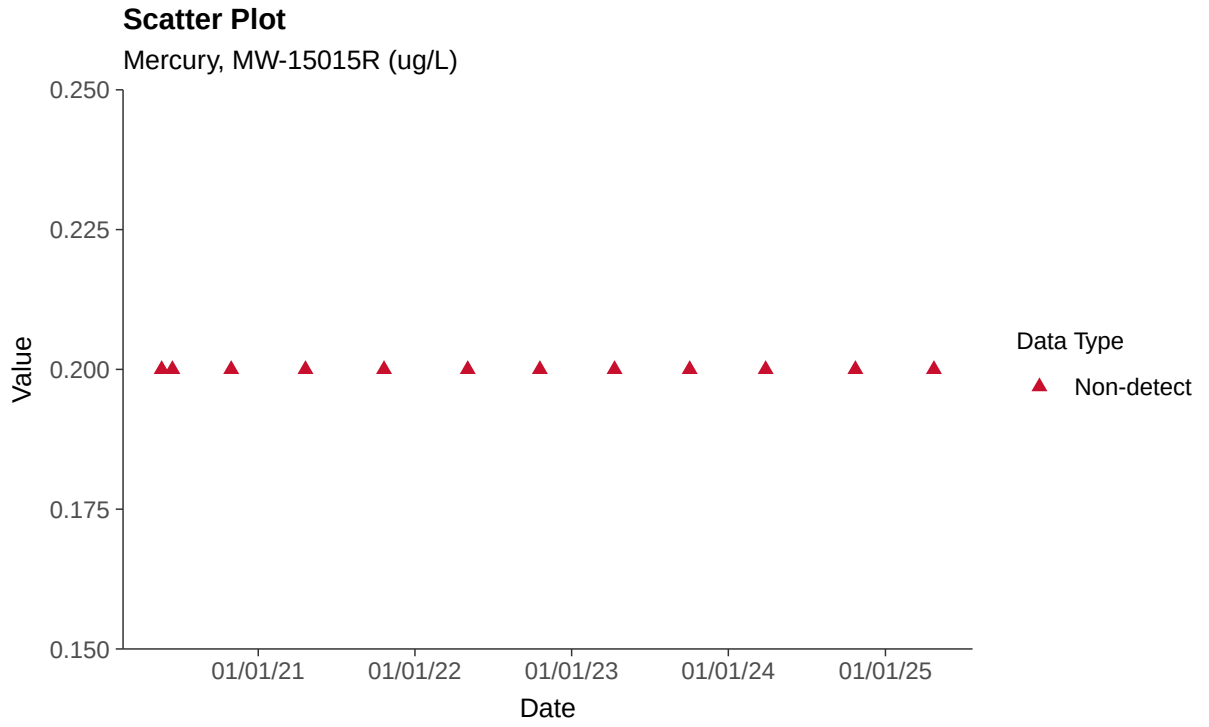
Trend Regression: Piecewise Linear-Linear-Linear

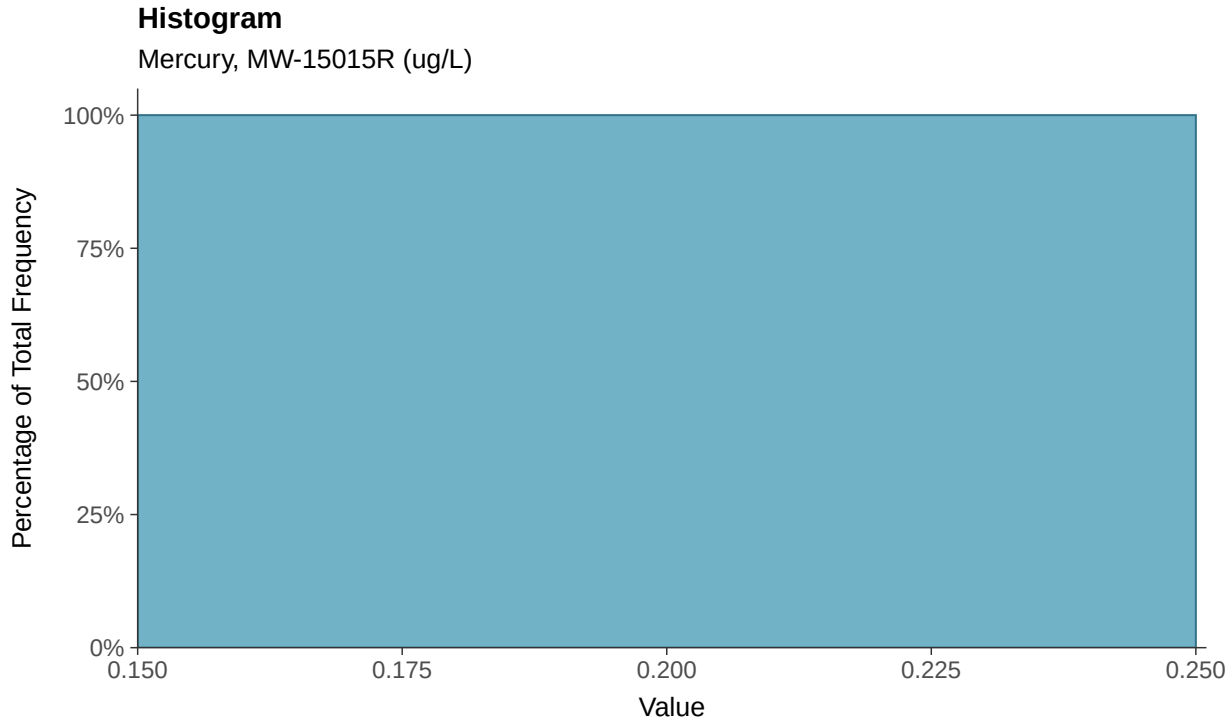
Lithium, MW-15015R (ug/L)



Appendix IV: Mercury, MW-15015R

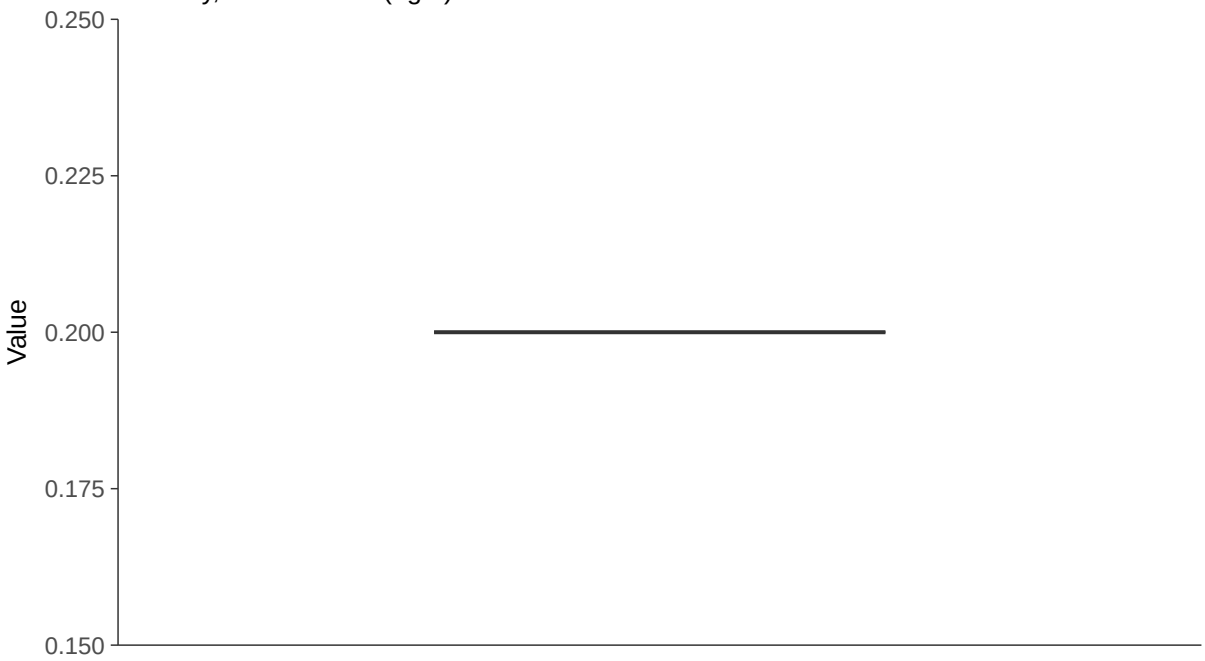
ID: 05_2_118





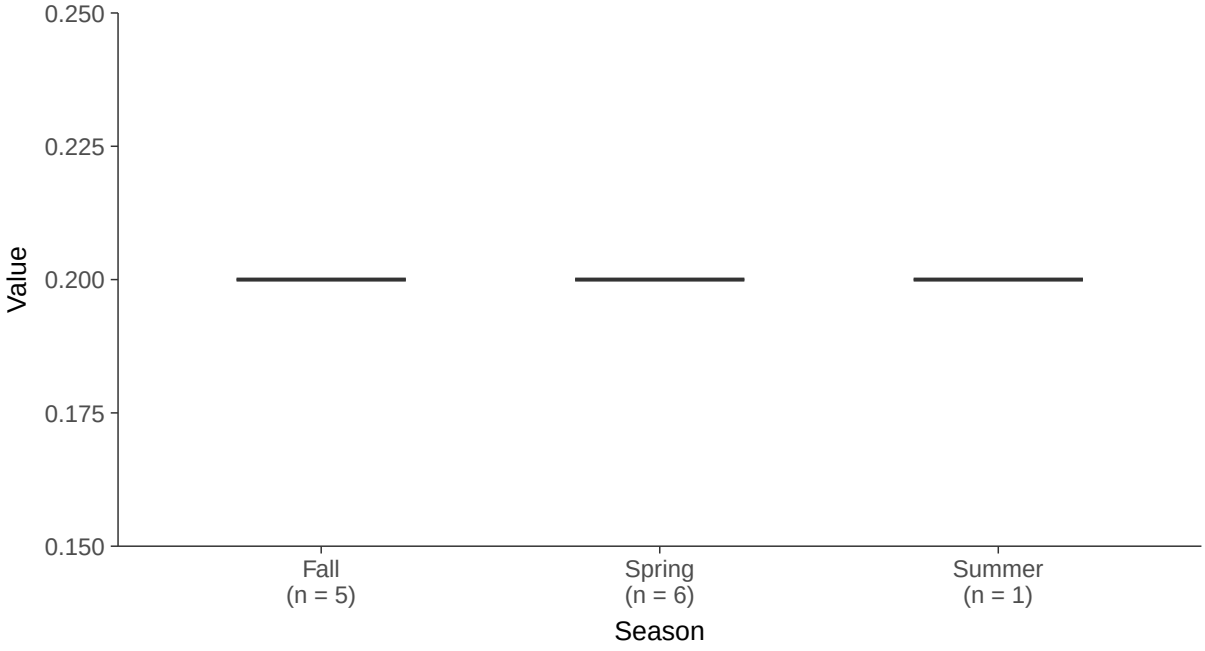
Boxplot

Mercury, MW-15015R (ug/L)



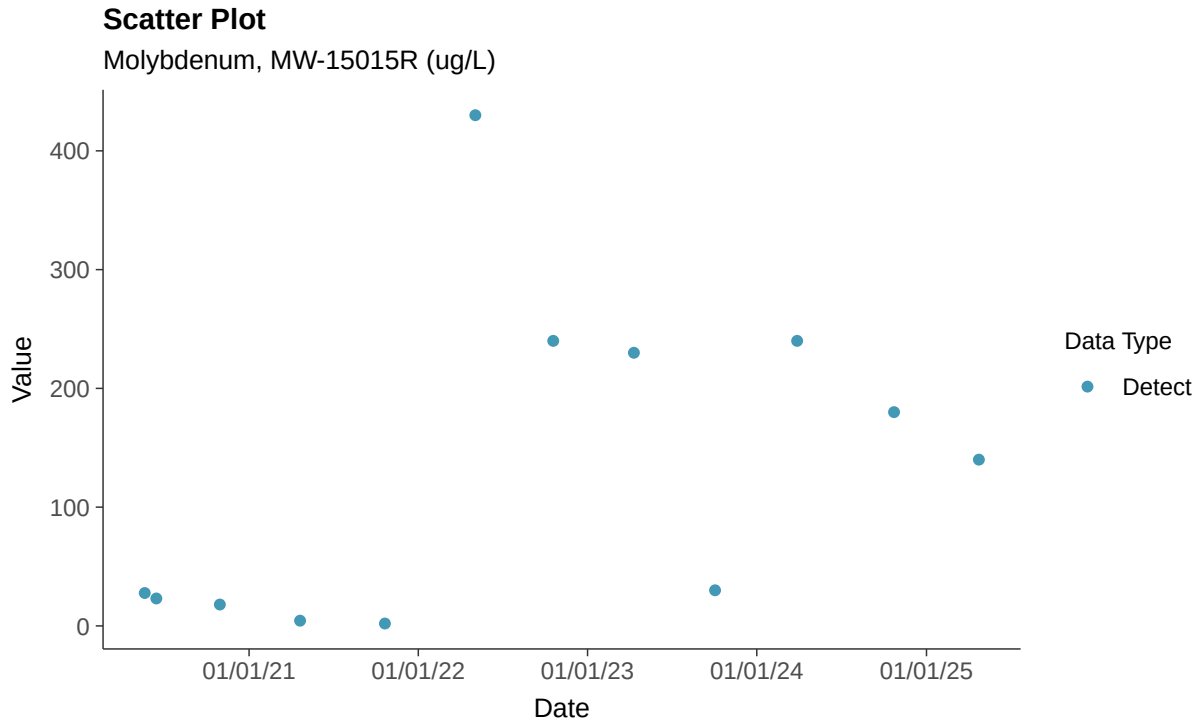
Boxplot by Season

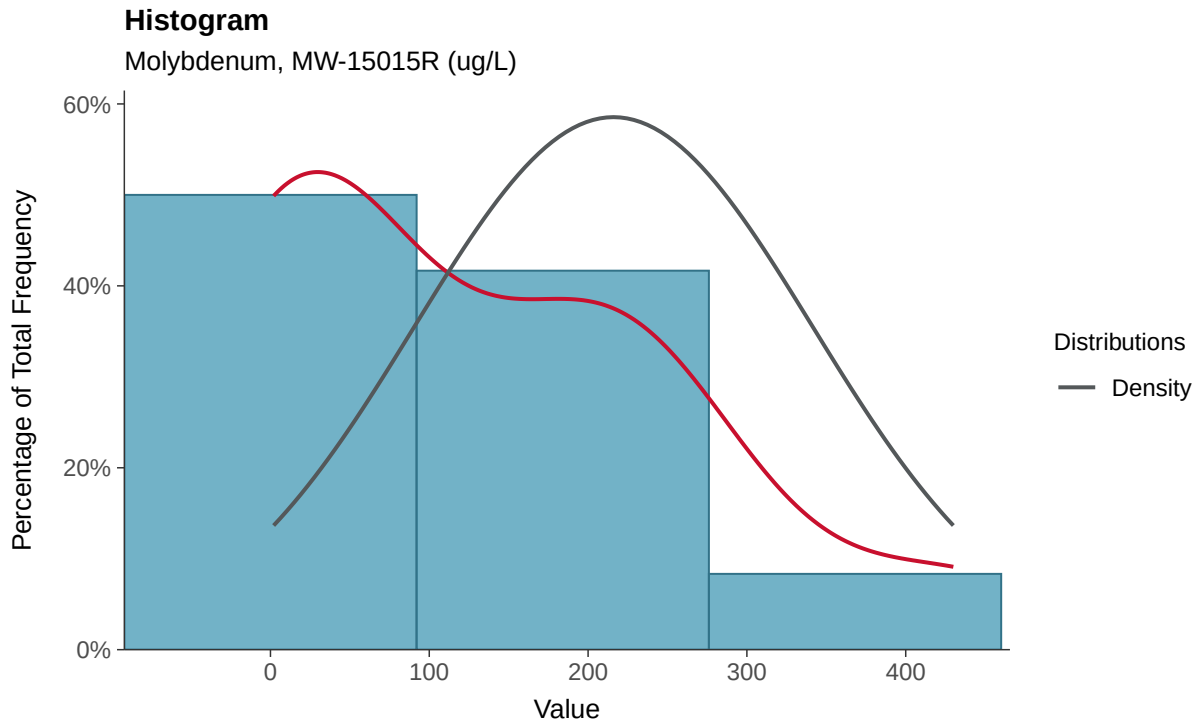
Mercury, MW-15015R (ug/L)



Appendix IV: Molybdenum, MW-15015R

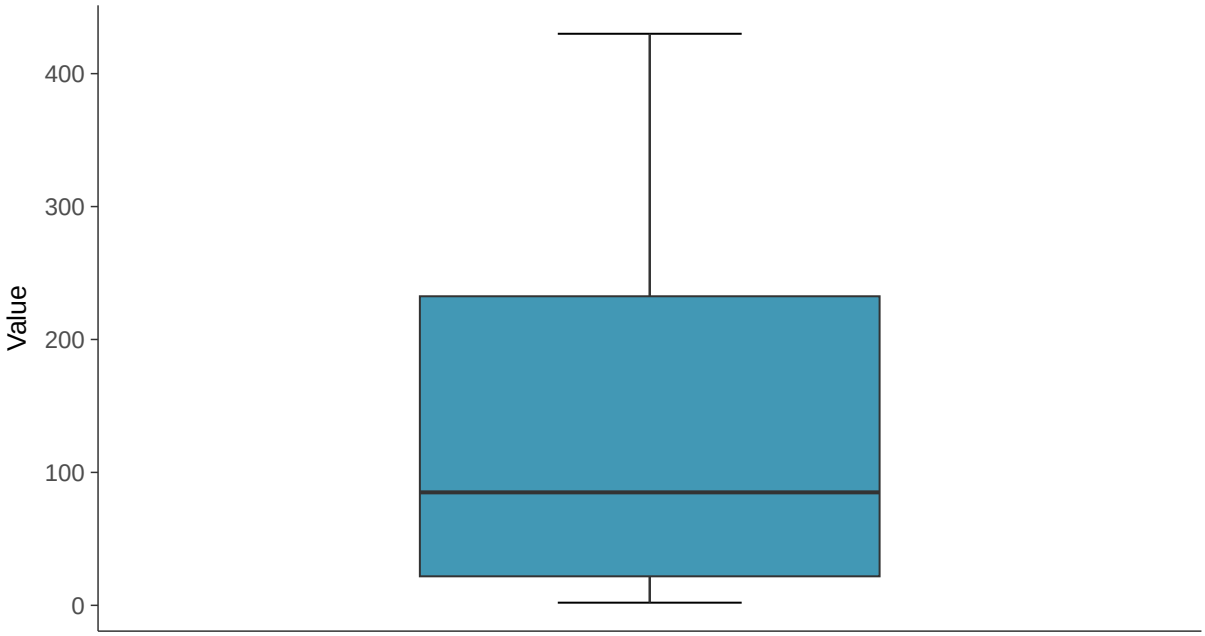
ID: 05_2_119





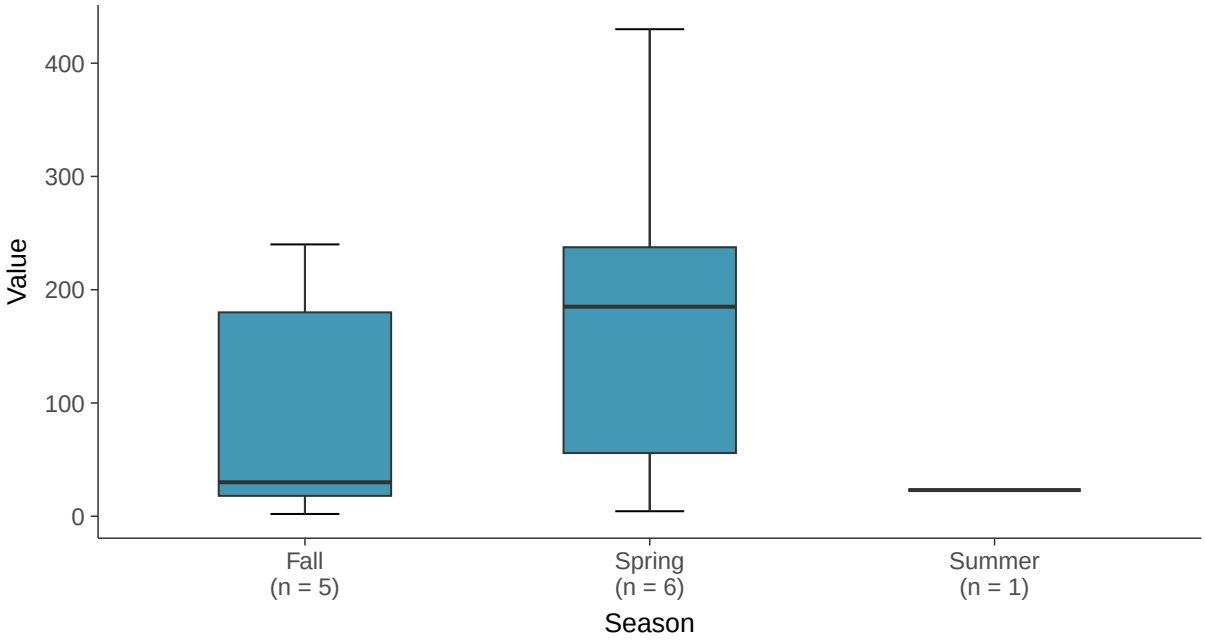
Boxplot

Molybdenum, MW-15015R (ug/L)



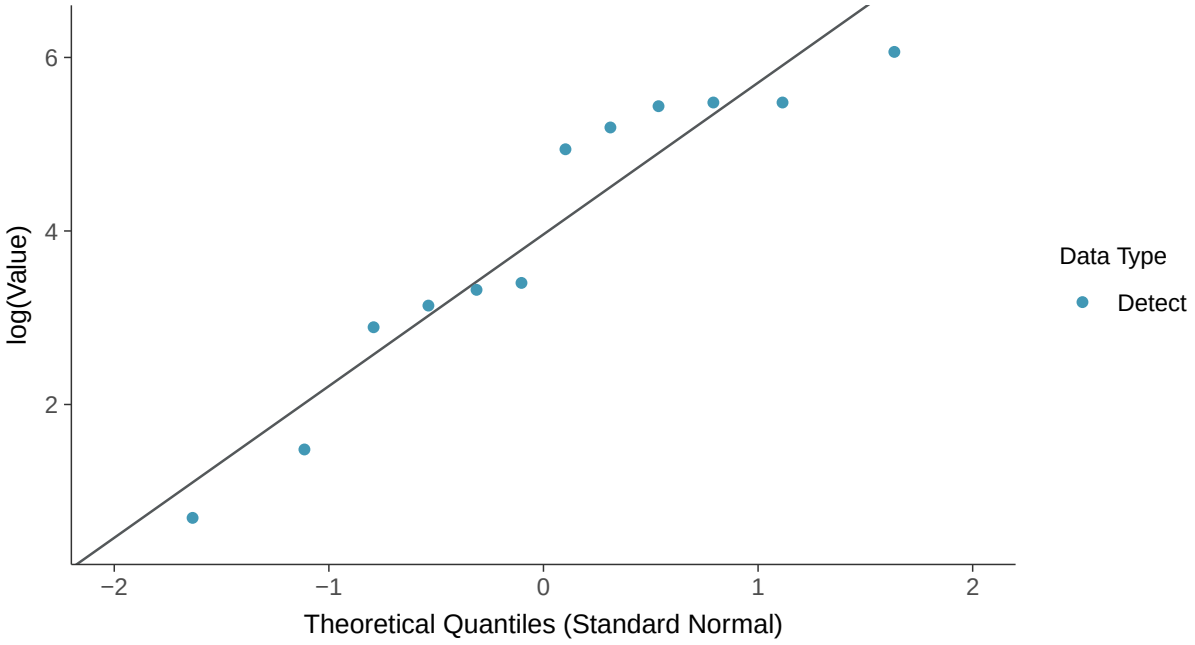
Boxplot by Season

Molybdenum, MW-15015R (ug/L)



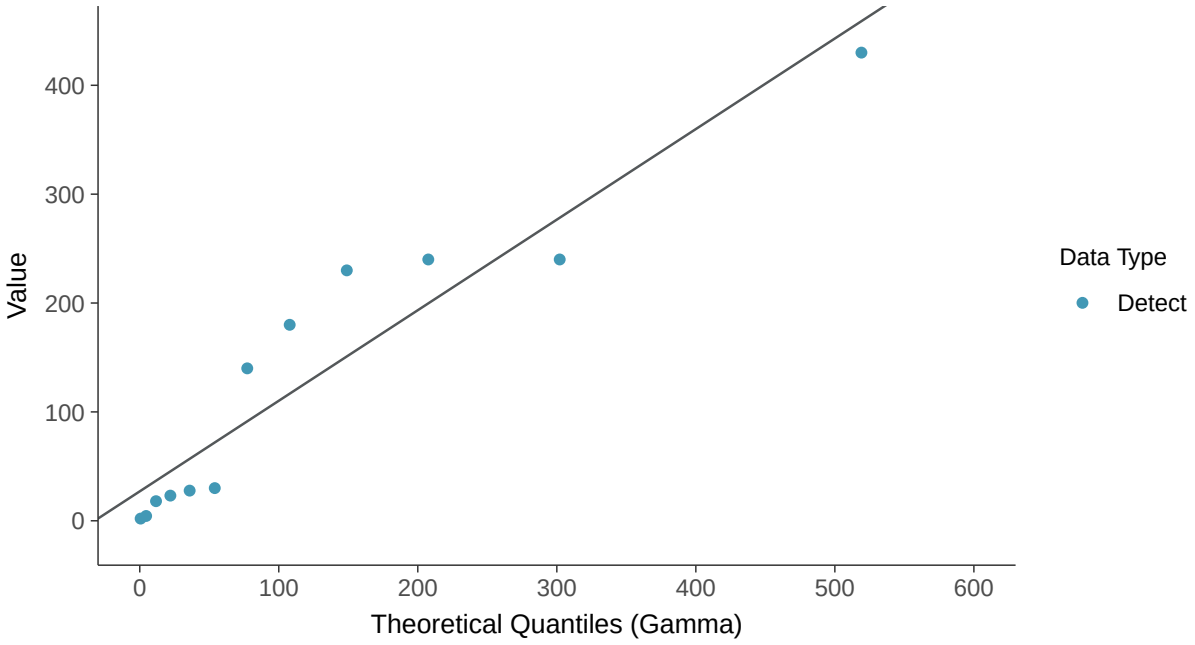
Lognormal Q-Q plot

Molybdenum, MW-15015R (ug/L)



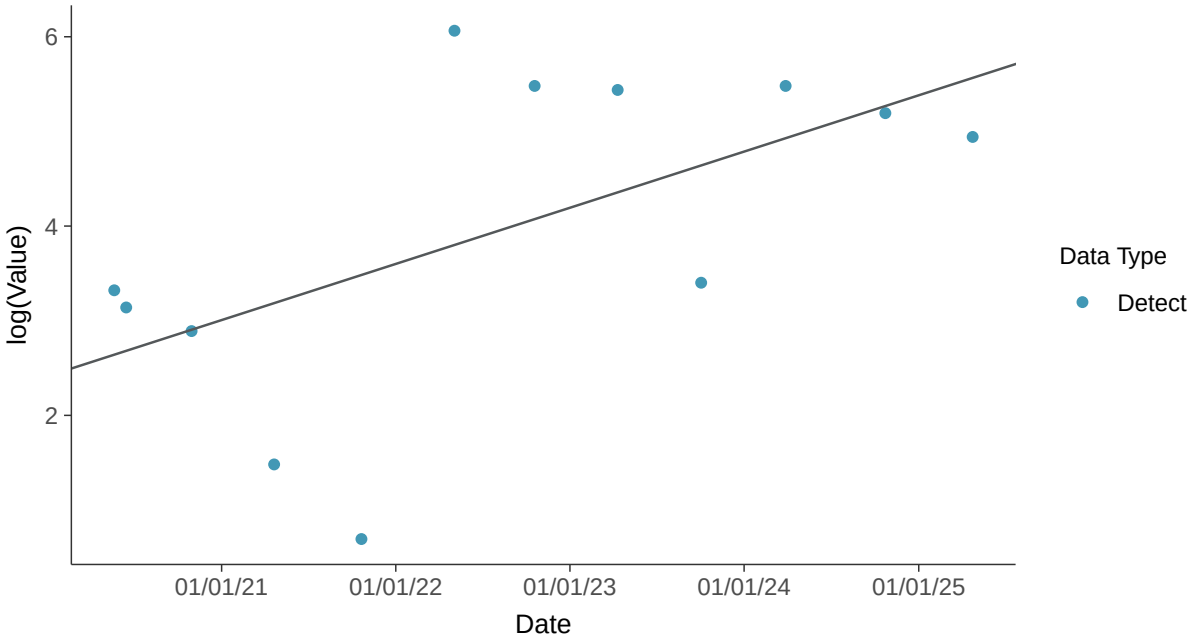
Gamma Q-Q plot

Molybdenum, MW-15015R (ug/L)



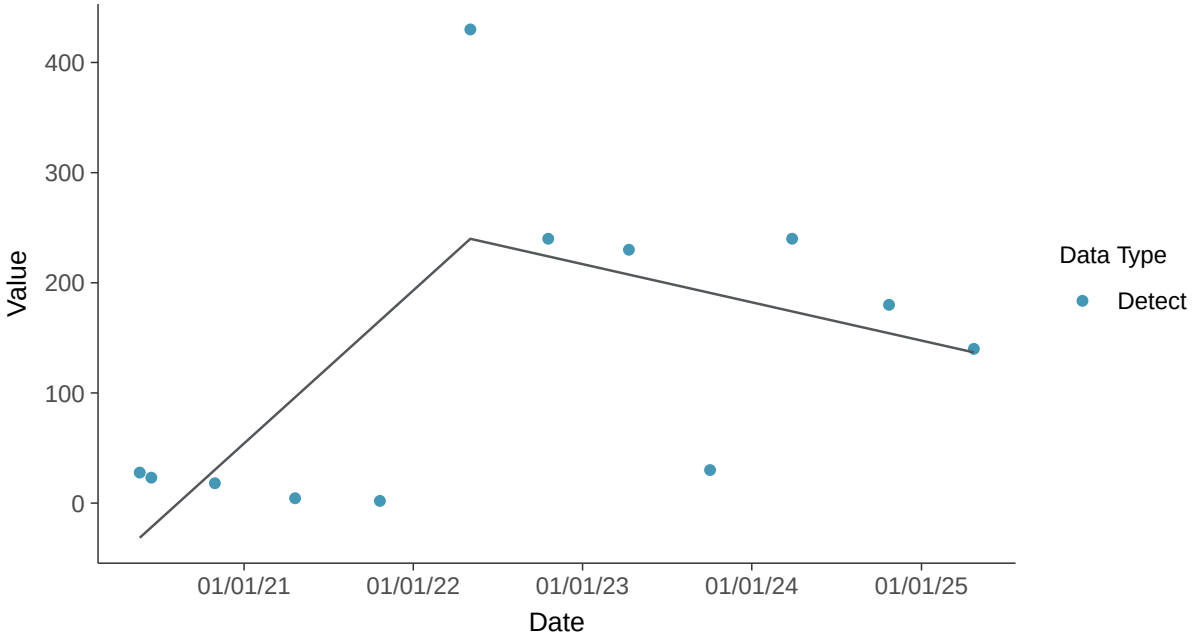
Trend Regression: Lognormal MLE

Molybdenum, MW-15015R (ug/L)



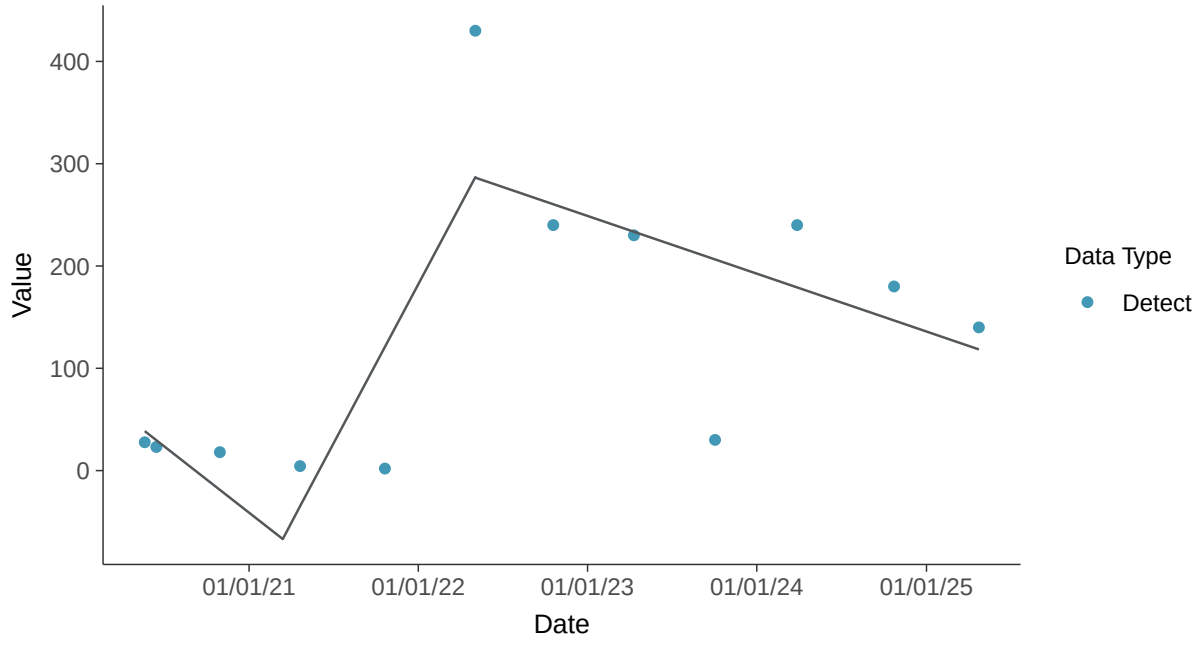
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-15015R (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-15015R (ug/L)

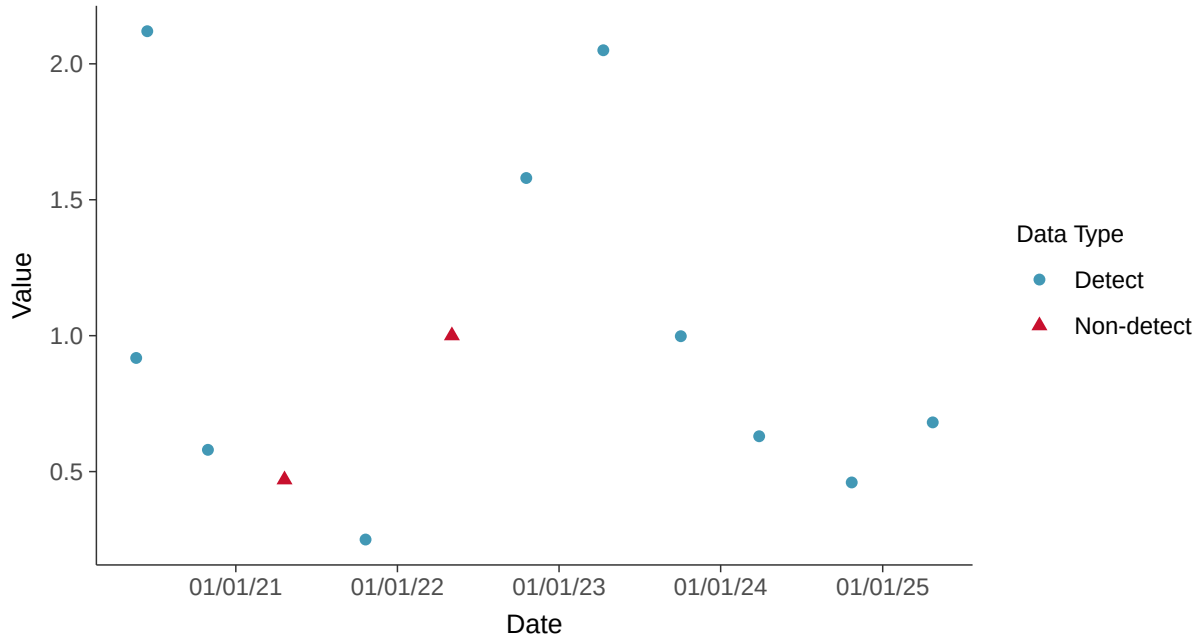


Appendix IV: Radium-226+228, MW-15015R

ID: 05_2_125

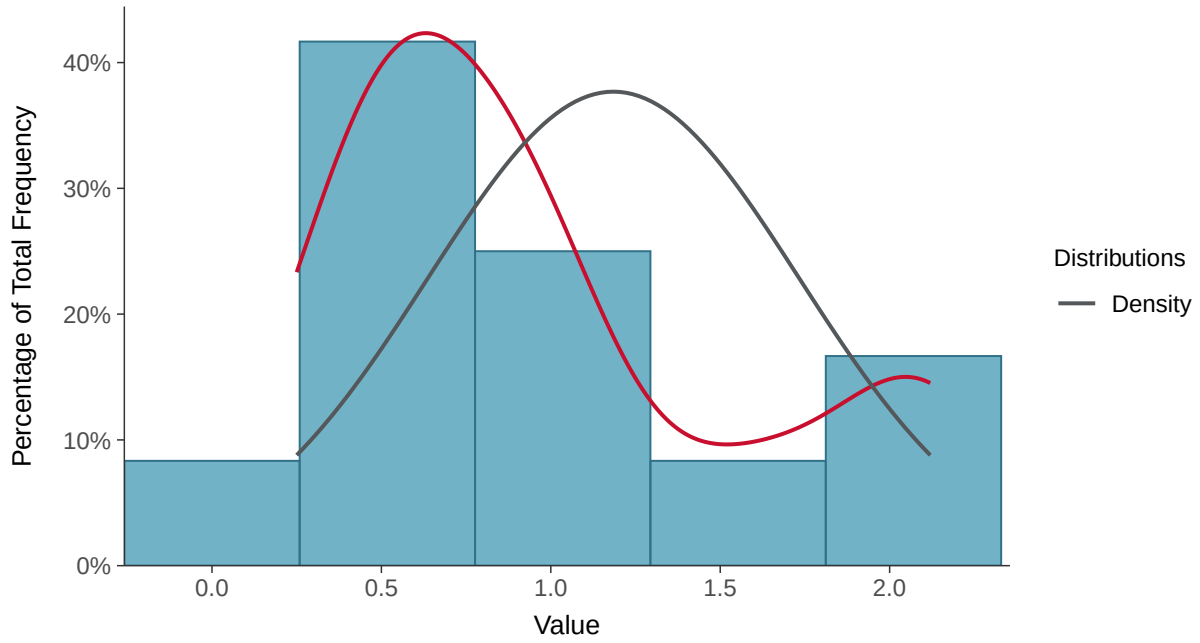
Scatter Plot

Radium-226+228, MW-15015R (pCi/L)



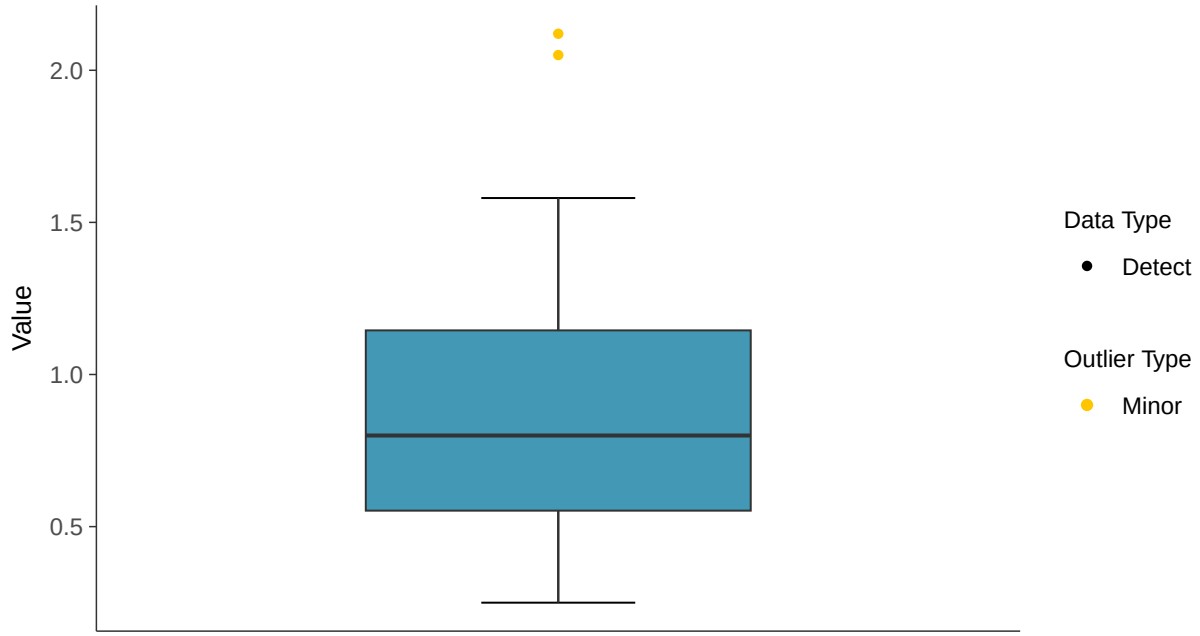
Histogram

Radium-226+228, MW-15015R (pCi/L)



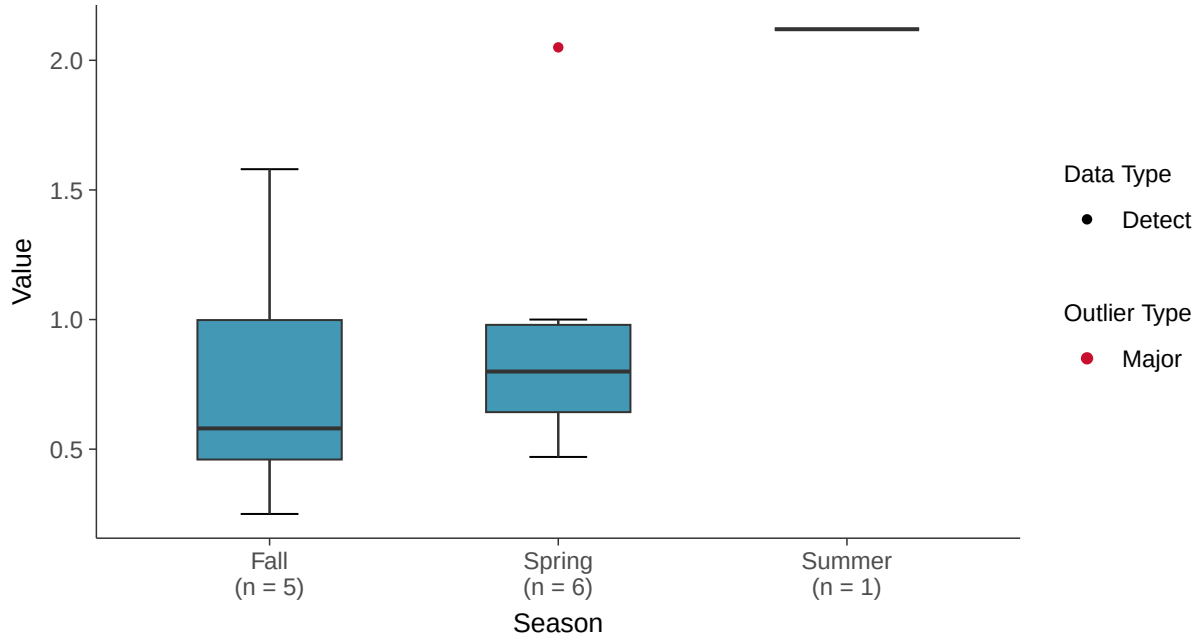
Boxplot

Radium-226+228, MW-15015R (pCi/L)



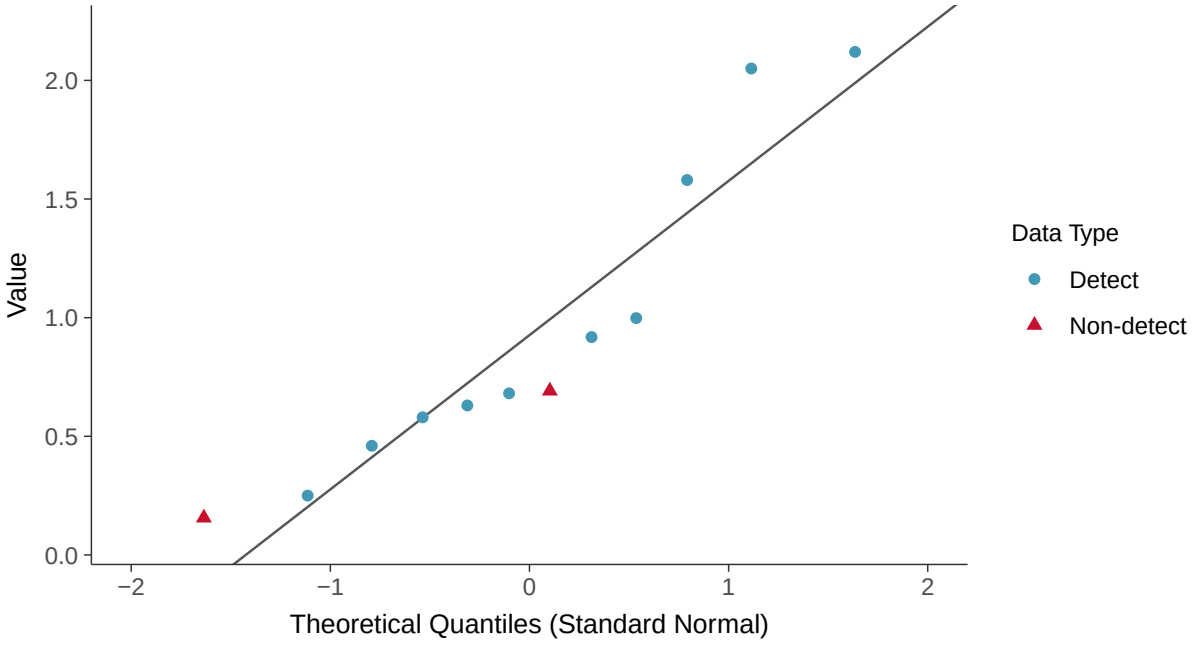
Boxplot by Season

Radium-226+228, MW-15015R (pCi/L)



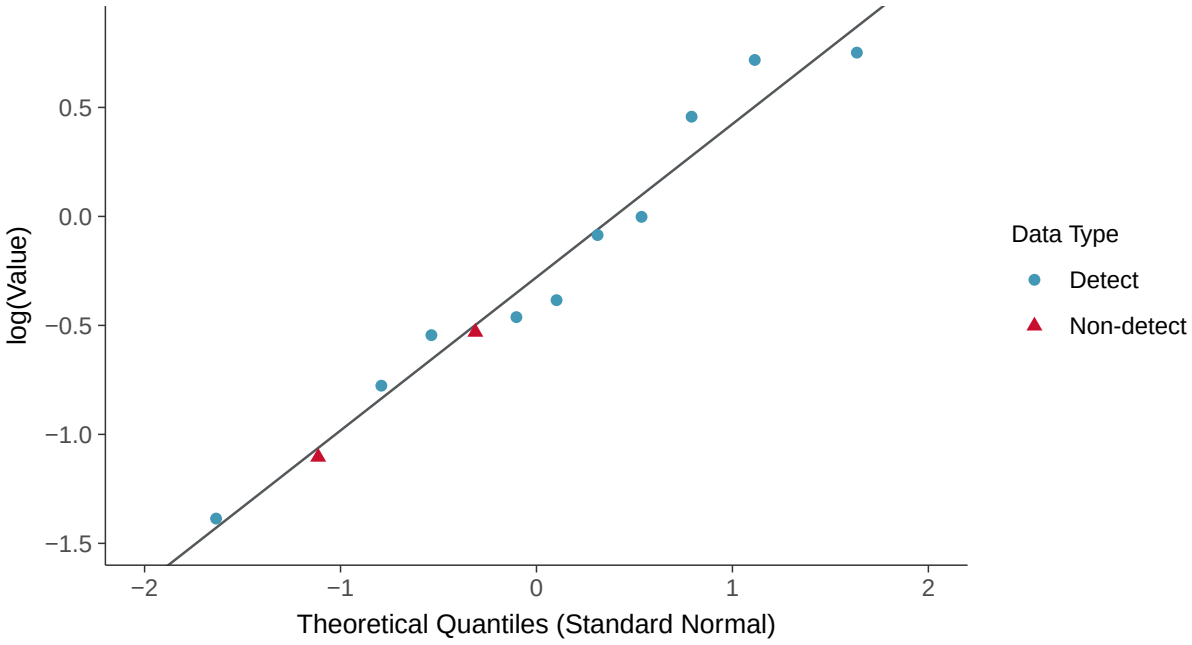
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15015R (pCi/L)



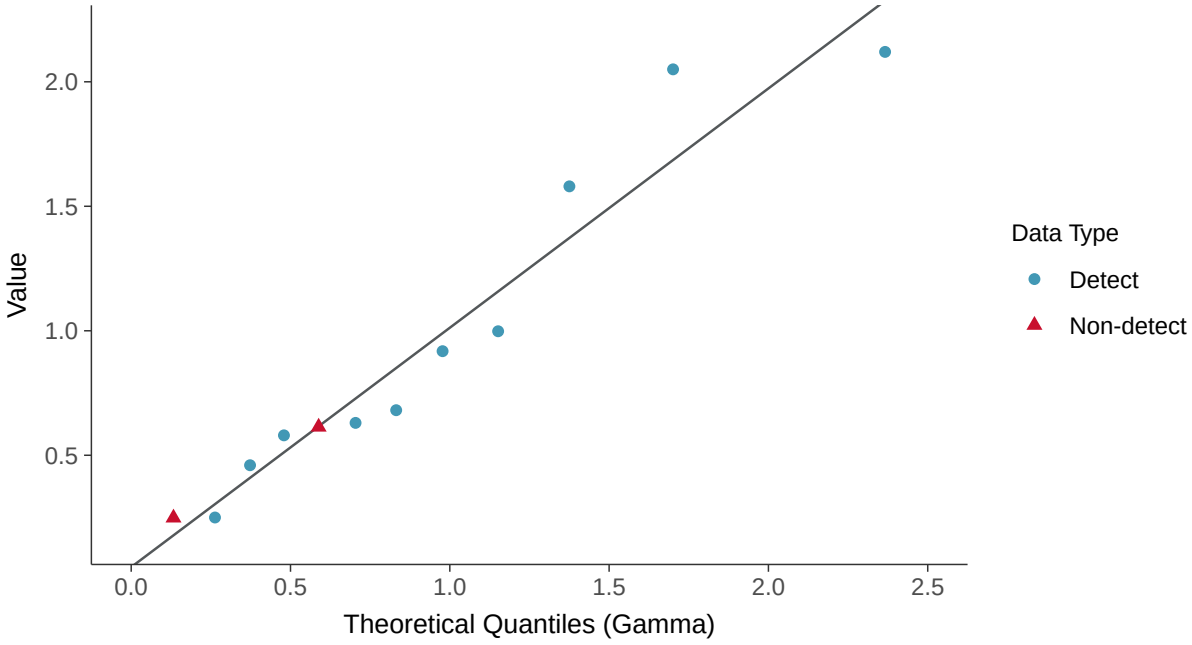
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15015R (pCi/L)



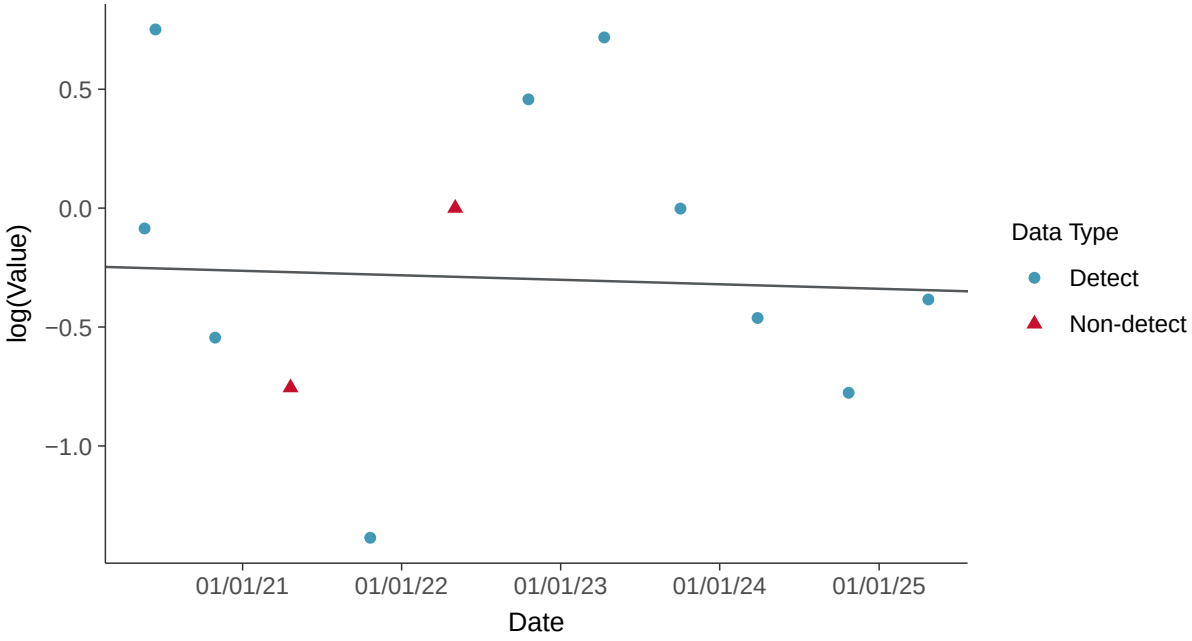
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15015R (pCi/L)



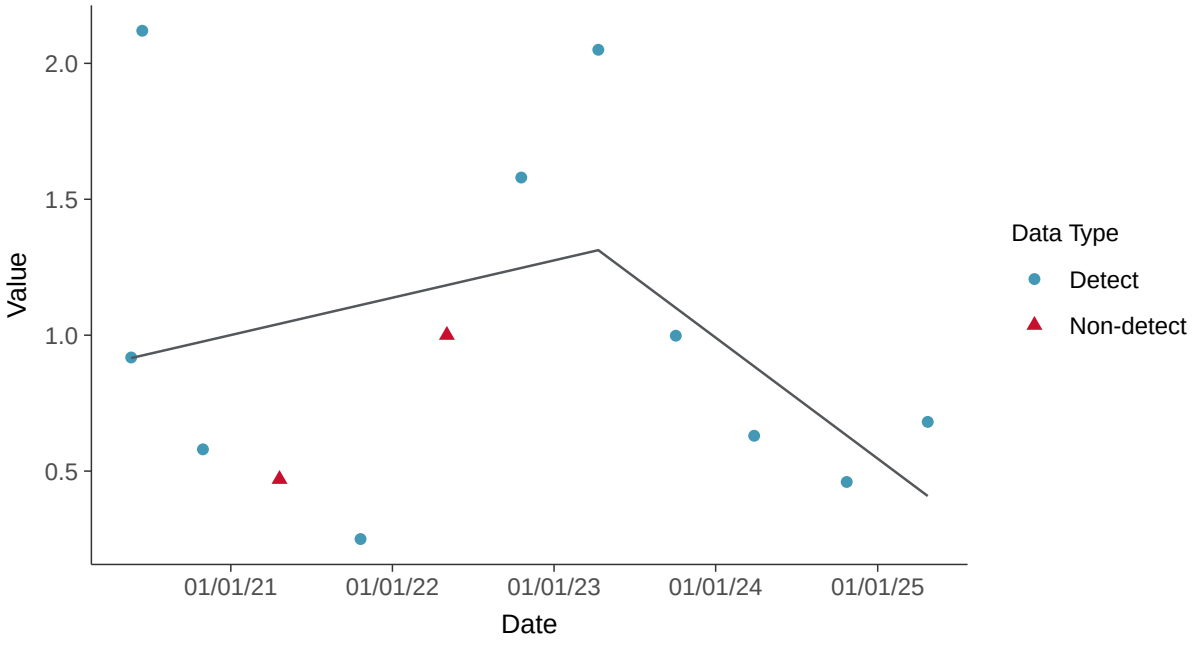
Trend Regression: Lognormal MLE

Radium-226+228, MW-15015R (pCi/L)



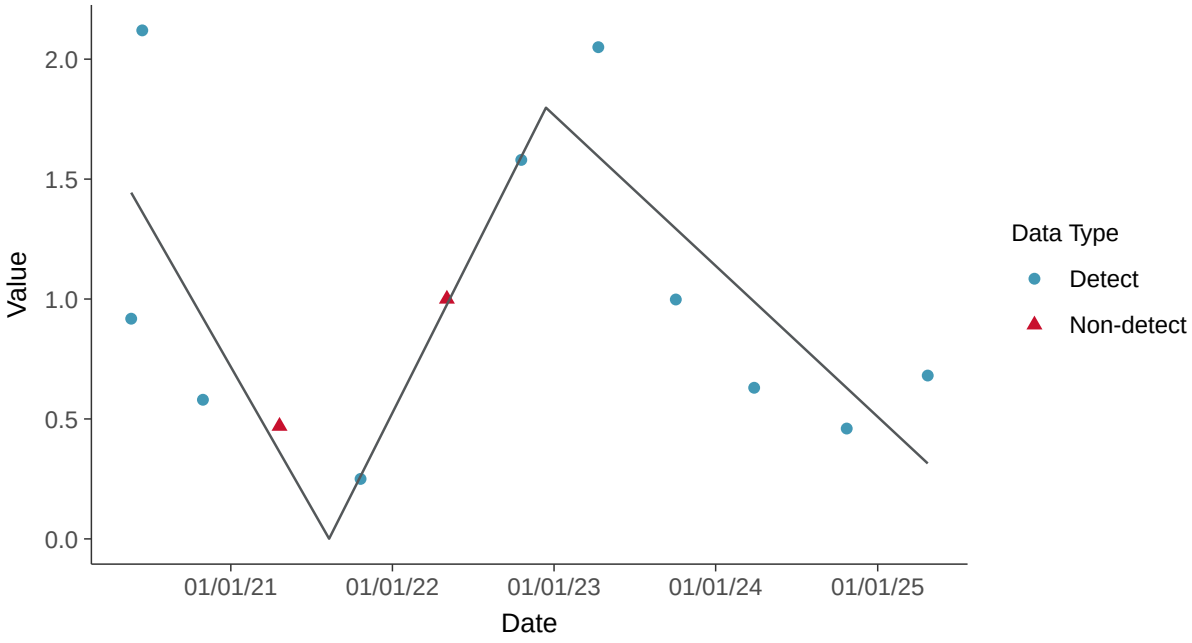
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-15015R (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium-226+228, MW-15015R (pCi/L)

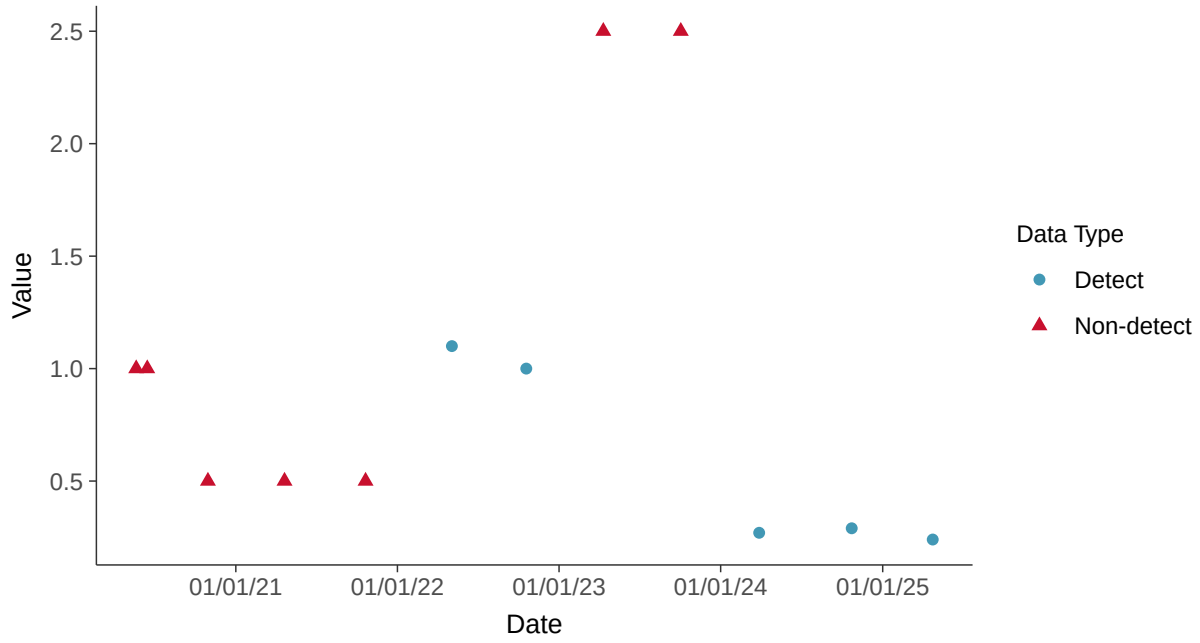


Appendix IV: Selenium, MW-15015R

ID: 05_2_127

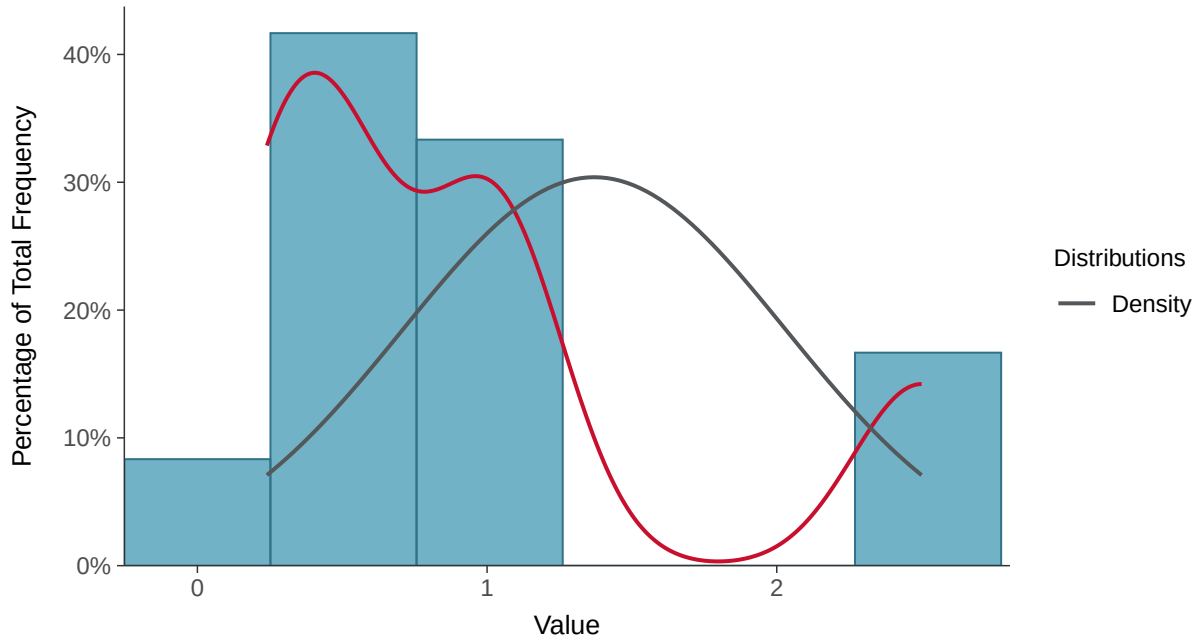
Scatter Plot

Selenium, MW-15015R (ug/L)



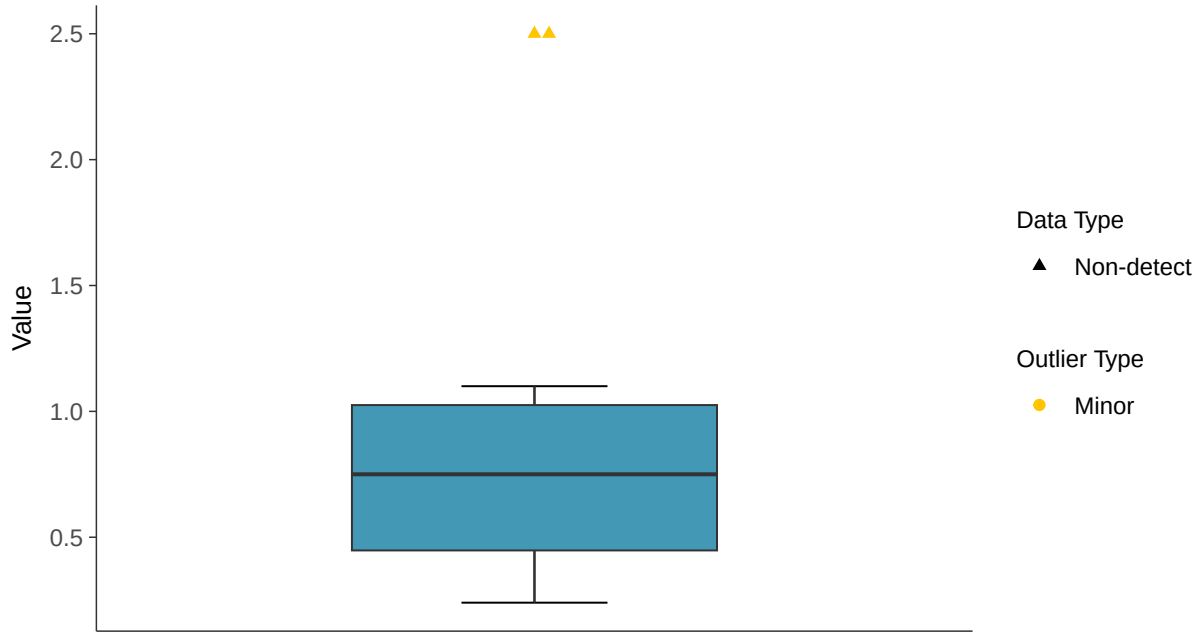
Histogram

Selenium, MW-15015R (ug/L)



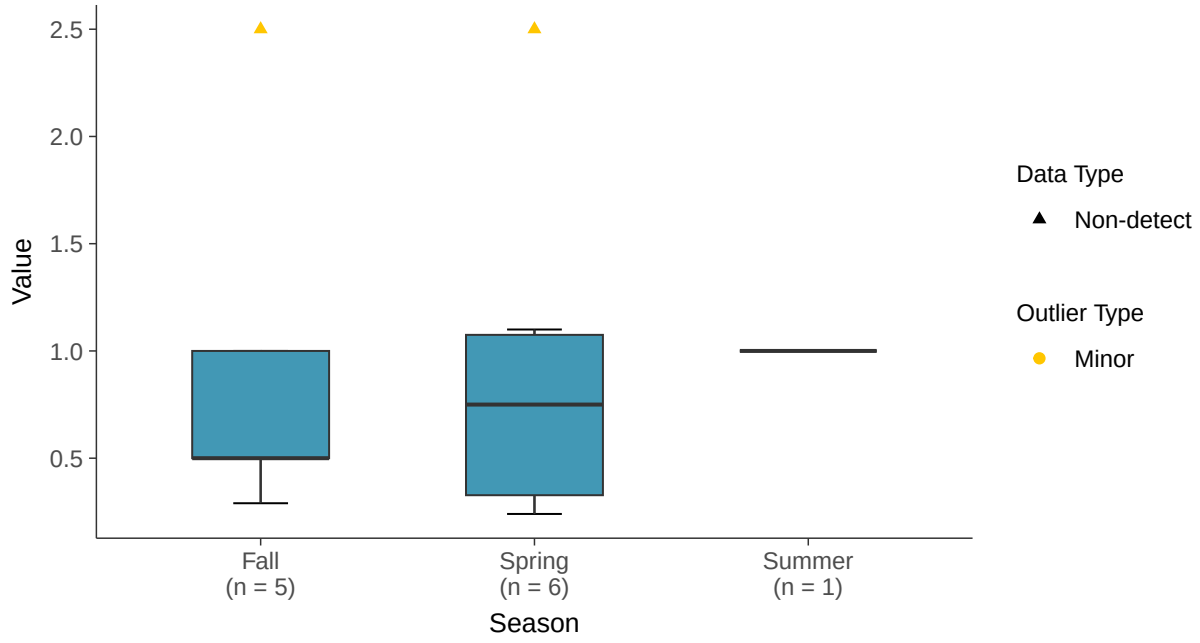
Boxplot

Selenium, MW-15015R (ug/L)



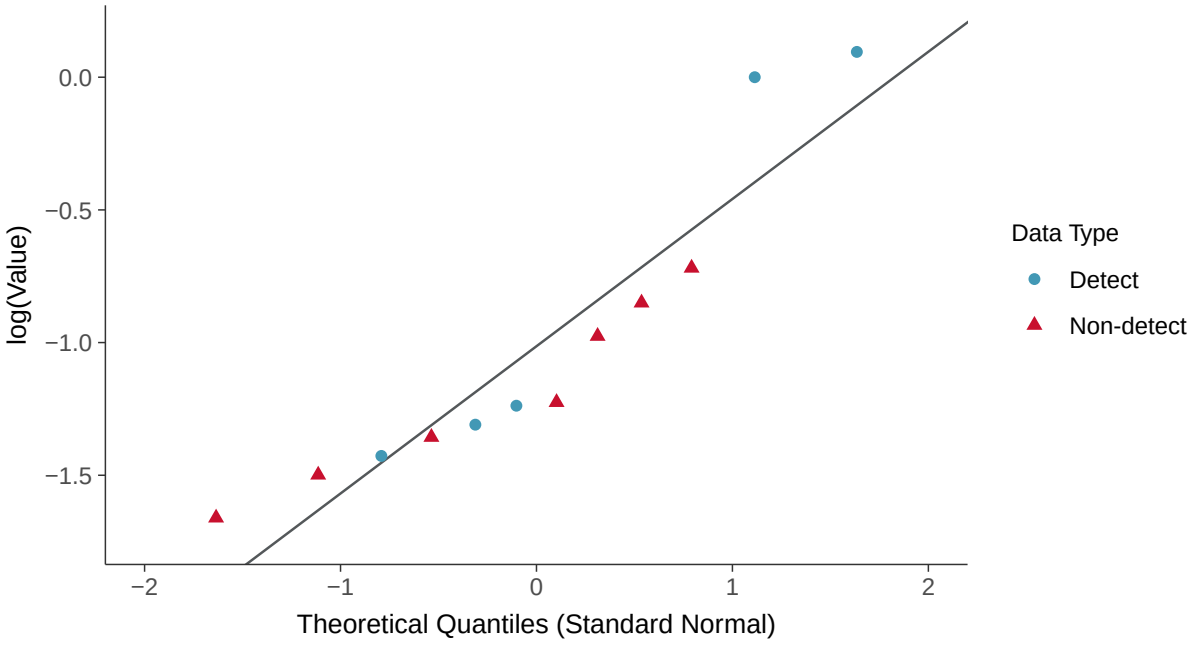
Boxplot by Season

Selenium, MW-15015R (ug/L)



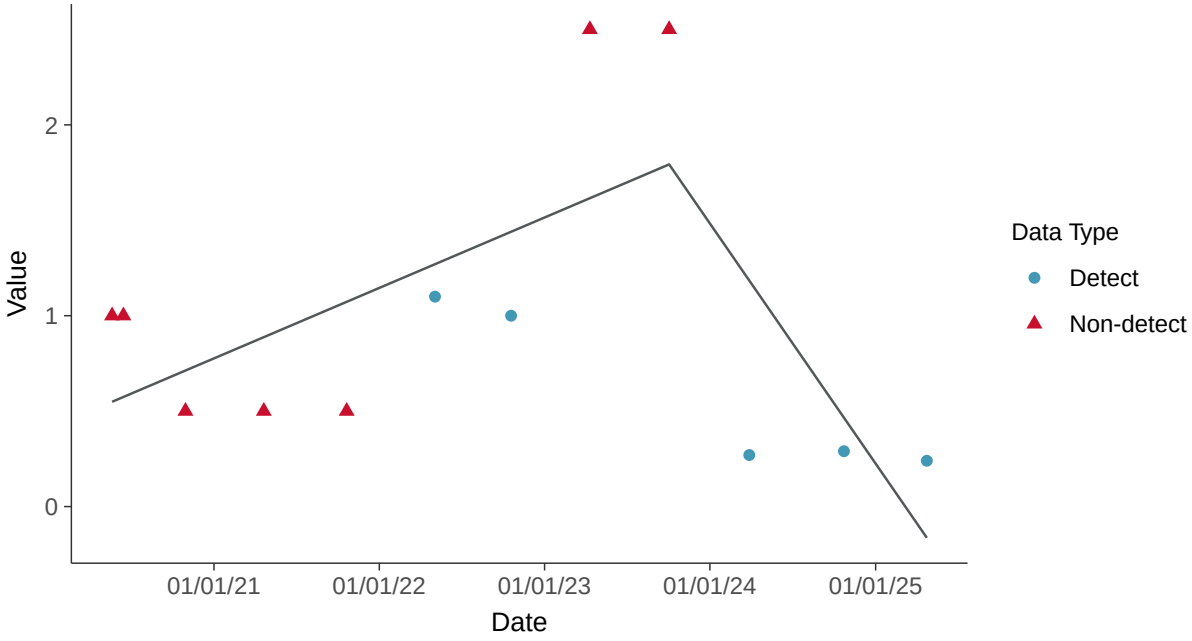
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-15015R (ug/L)



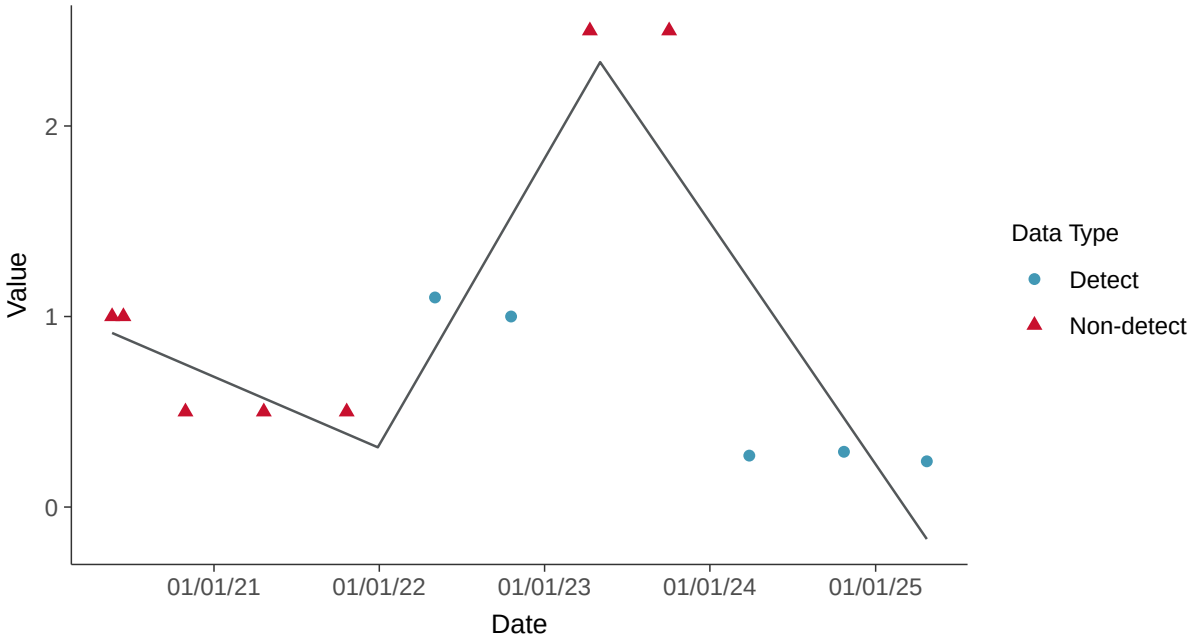
Trend Regression: Piecewise Linear-Linear

Selenium, MW-15015R (ug/L)



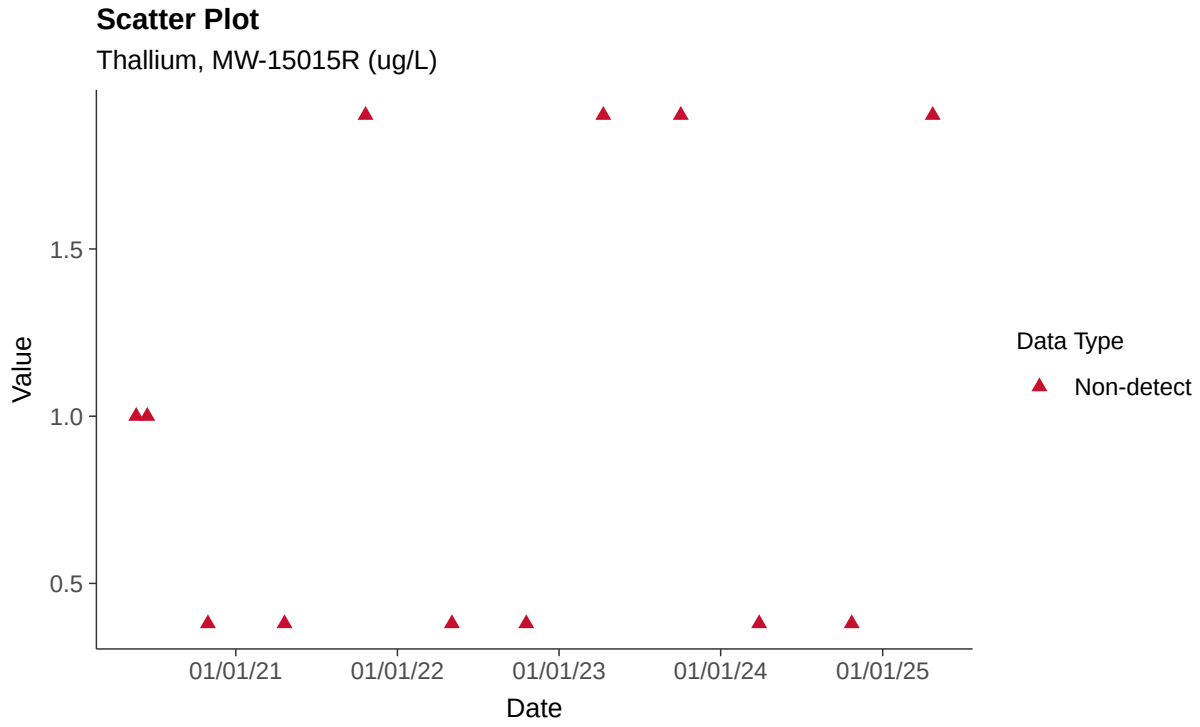
Trend Regression: Piecewise Linear-Linear-Linear

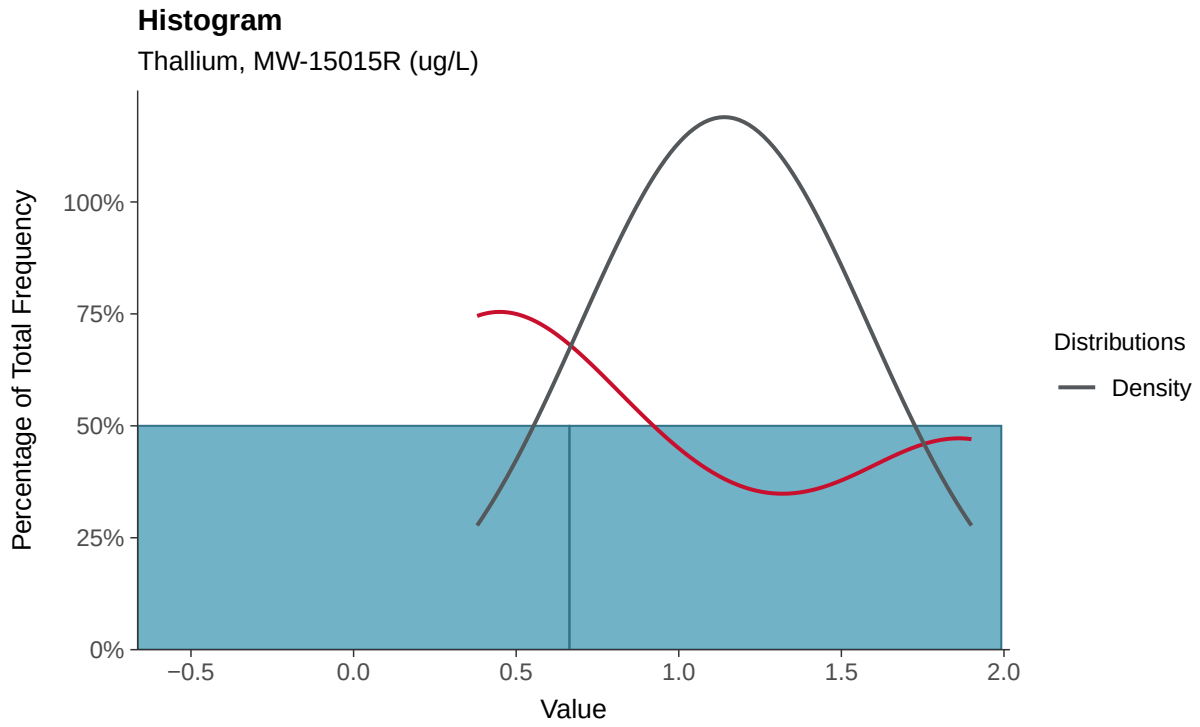
Selenium, MW-15015R (ug/L)



Appendix IV: Thallium, MW-15015R

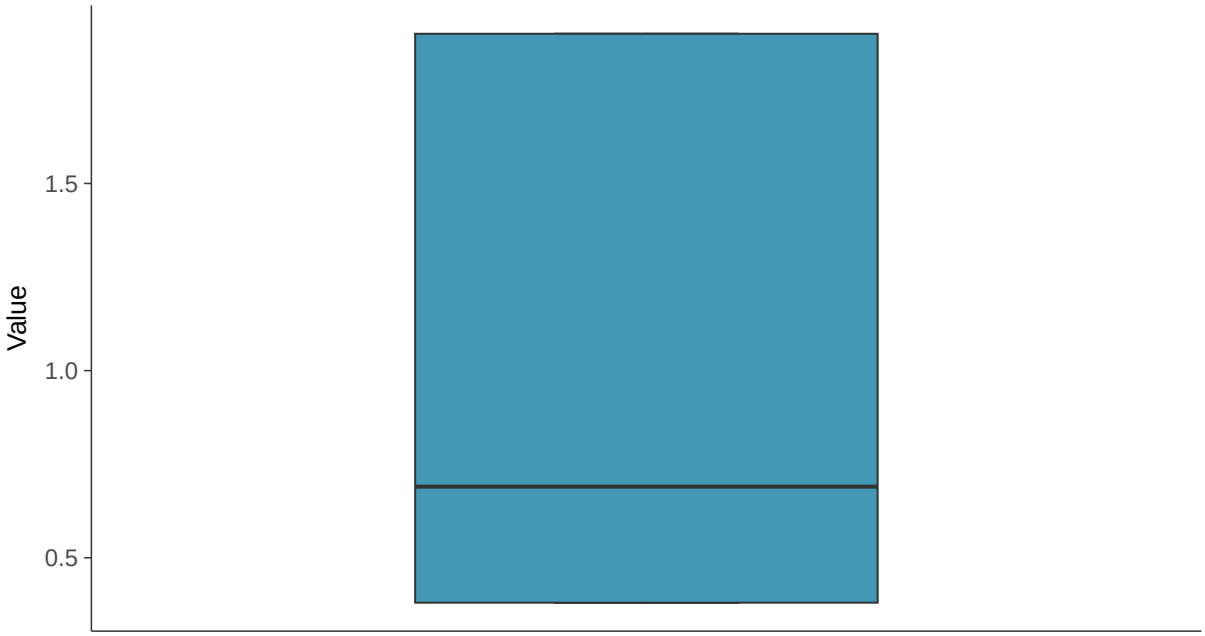
ID: 05_2_131





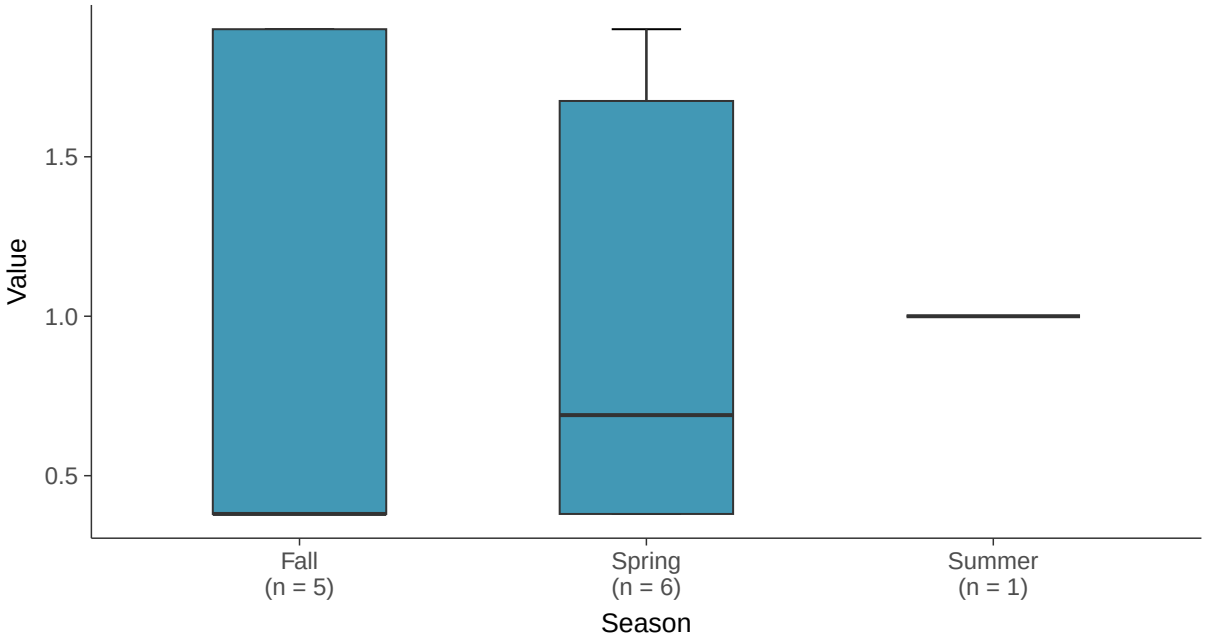
Boxplot

Thallium, MW-15015R (ug/L)



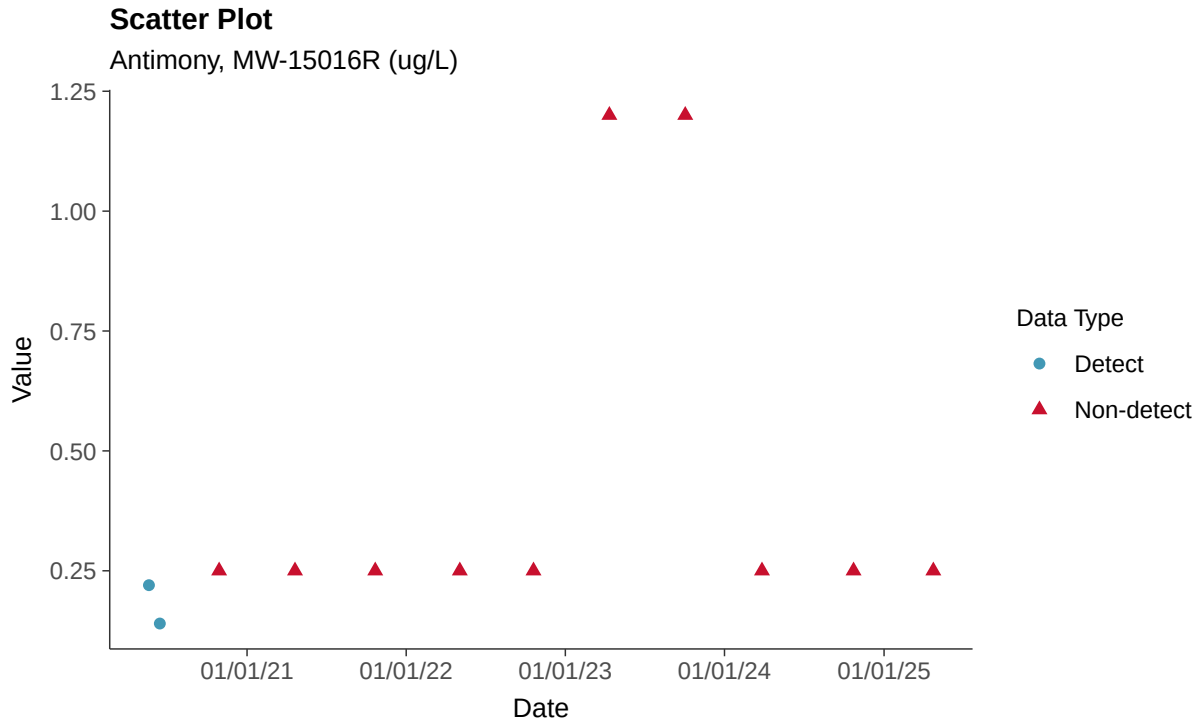
Boxplot by Season

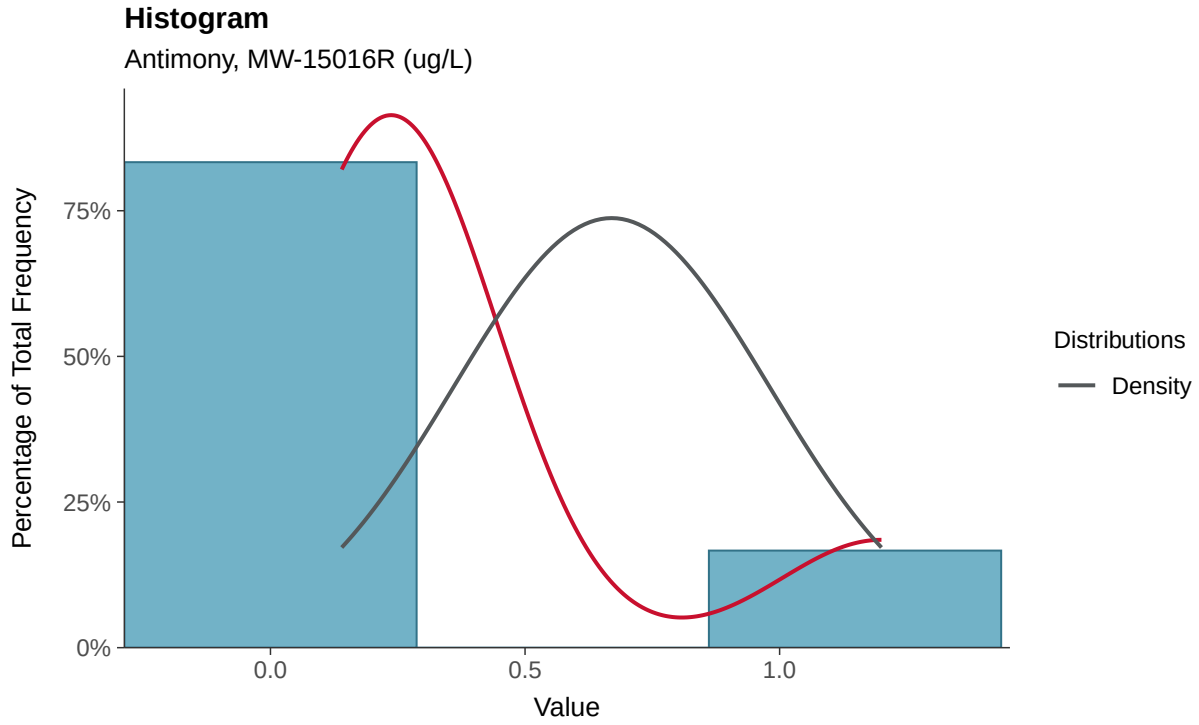
Thallium, MW-15015R (ug/L)



Appendix IV: Antimony, MW-15016R

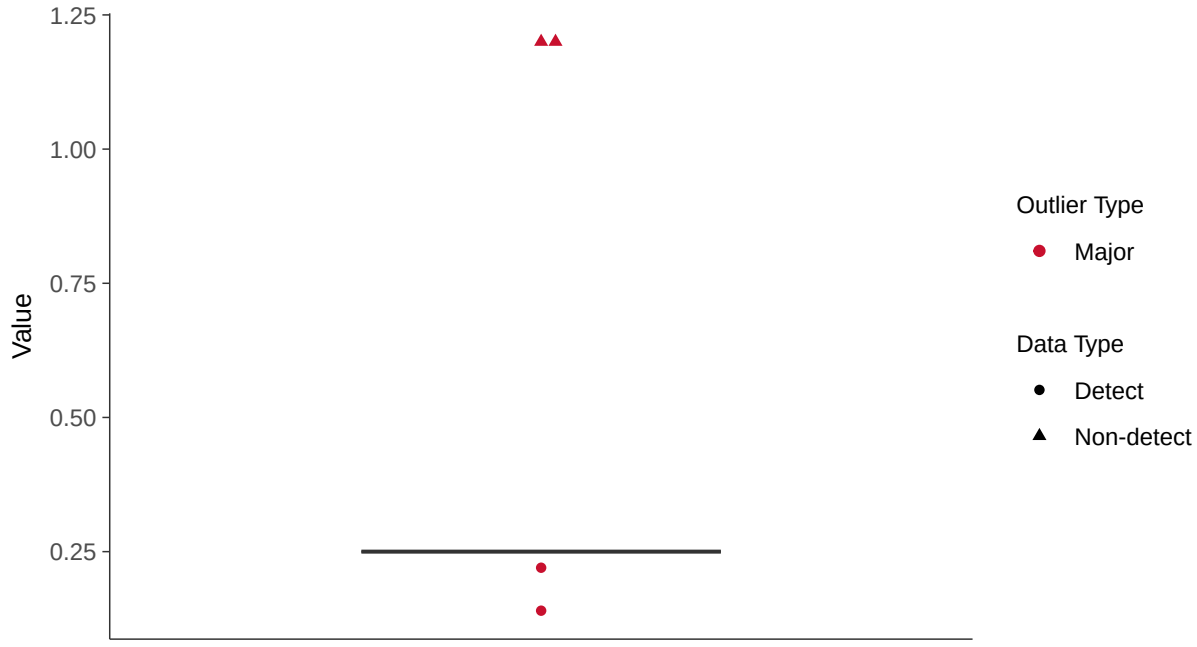
ID: 06_2_101





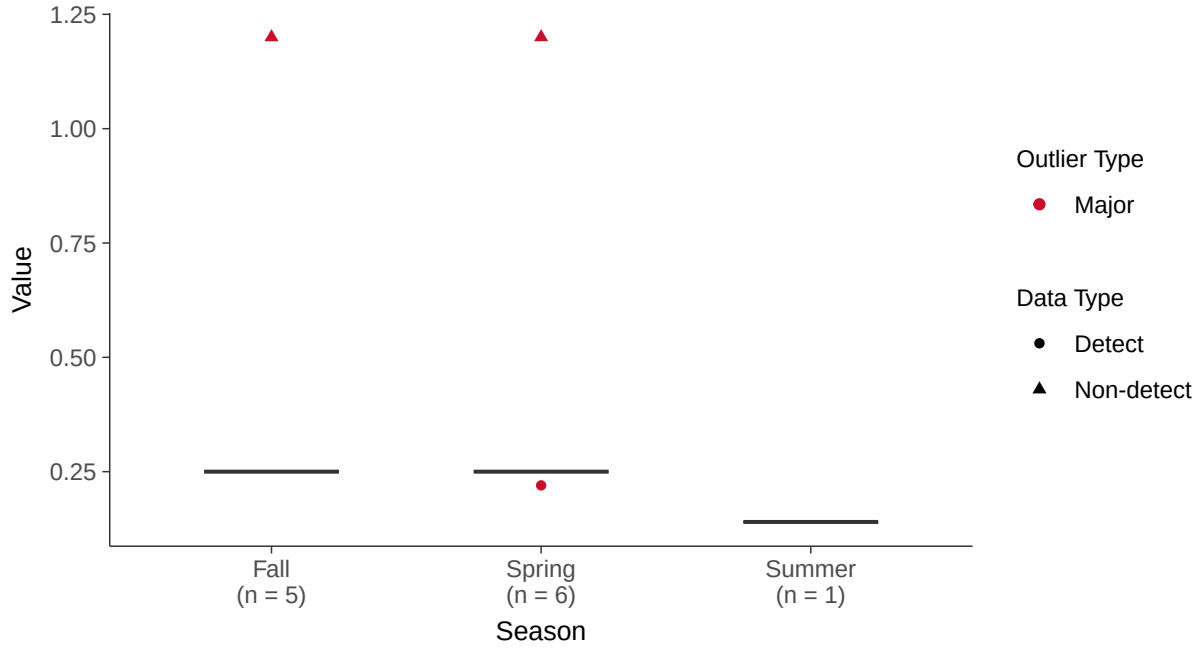
Boxplot

Antimony, MW-15016R (ug/L)



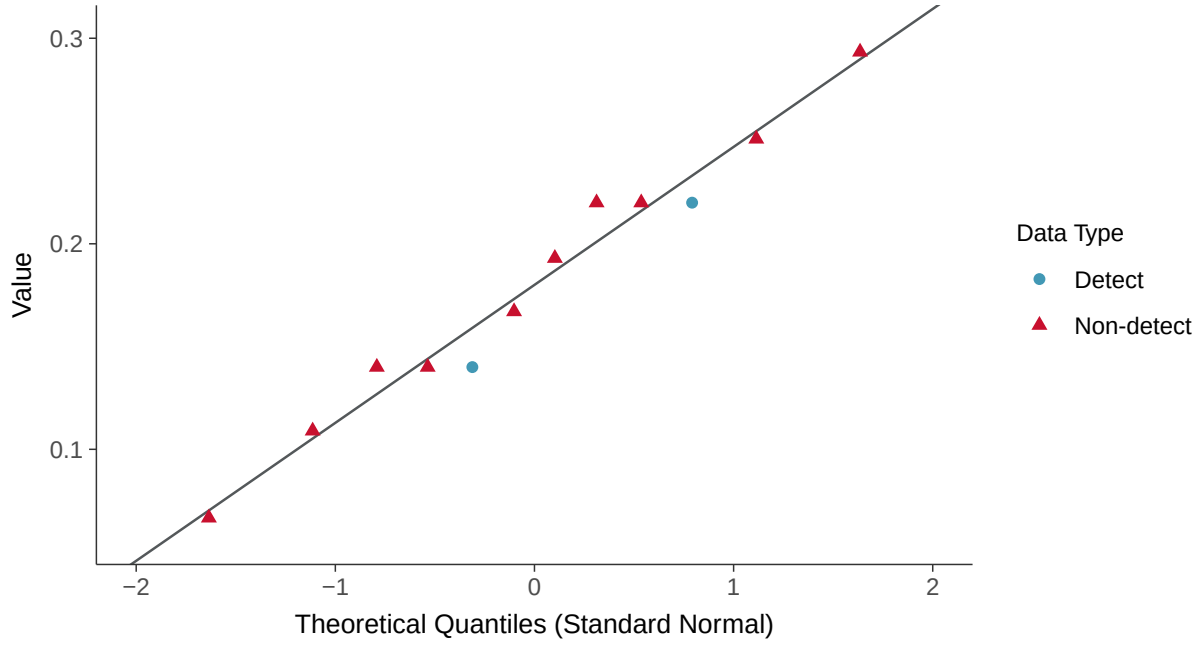
Boxplot by Season

Antimony, MW-15016R (ug/L)



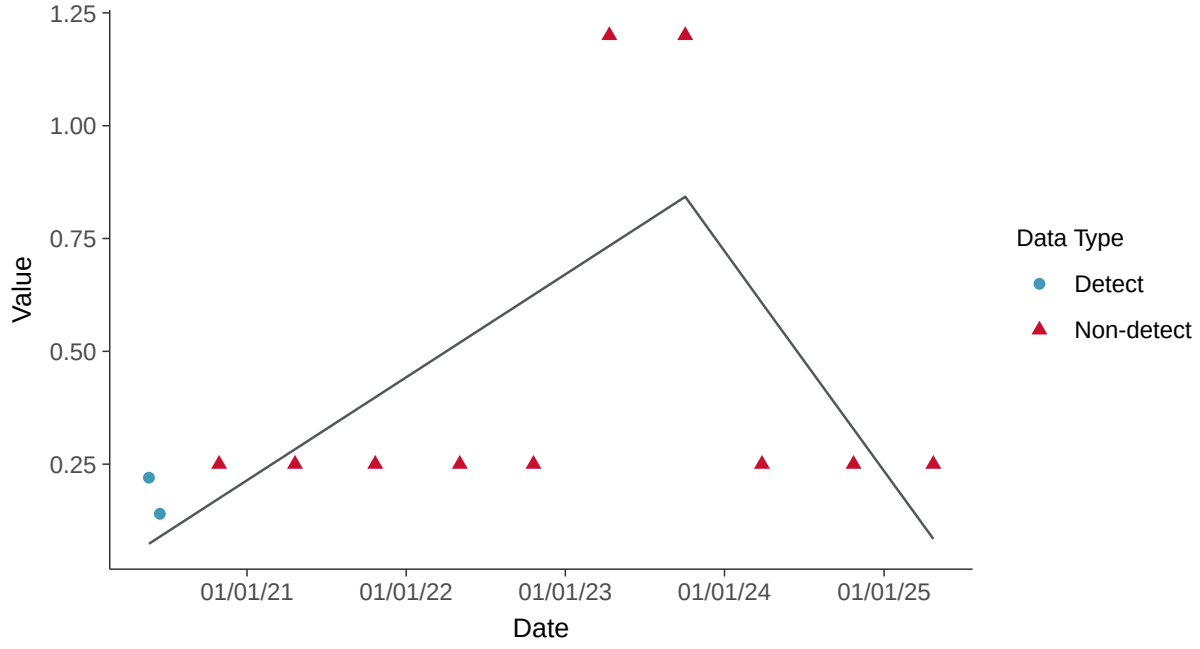
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-15016R (ug/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-15016R (ug/L)

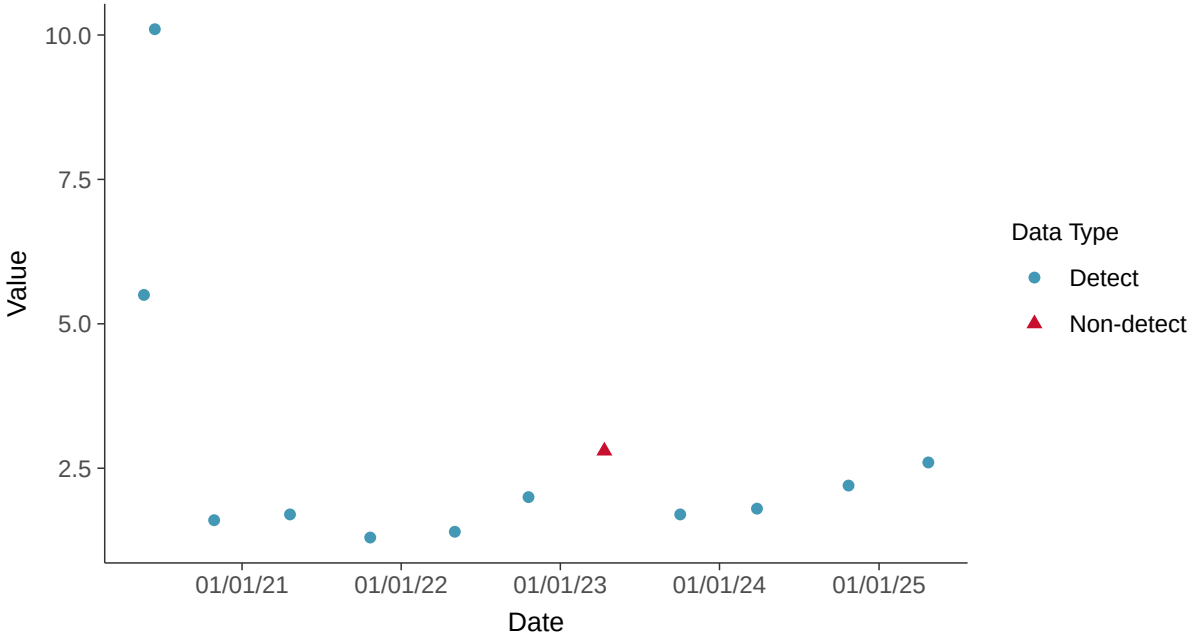


Appendix IV: Arsenic, MW-15016R

ID: 06_2_102

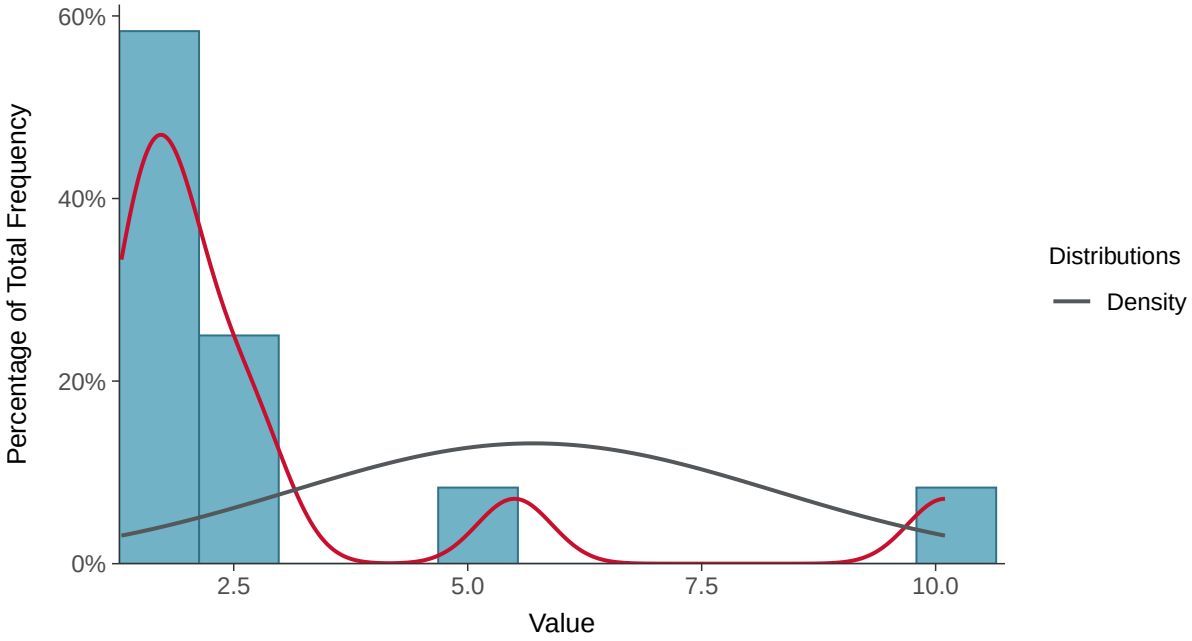
Scatter Plot

Arsenic, MW-15016R (ug/L)



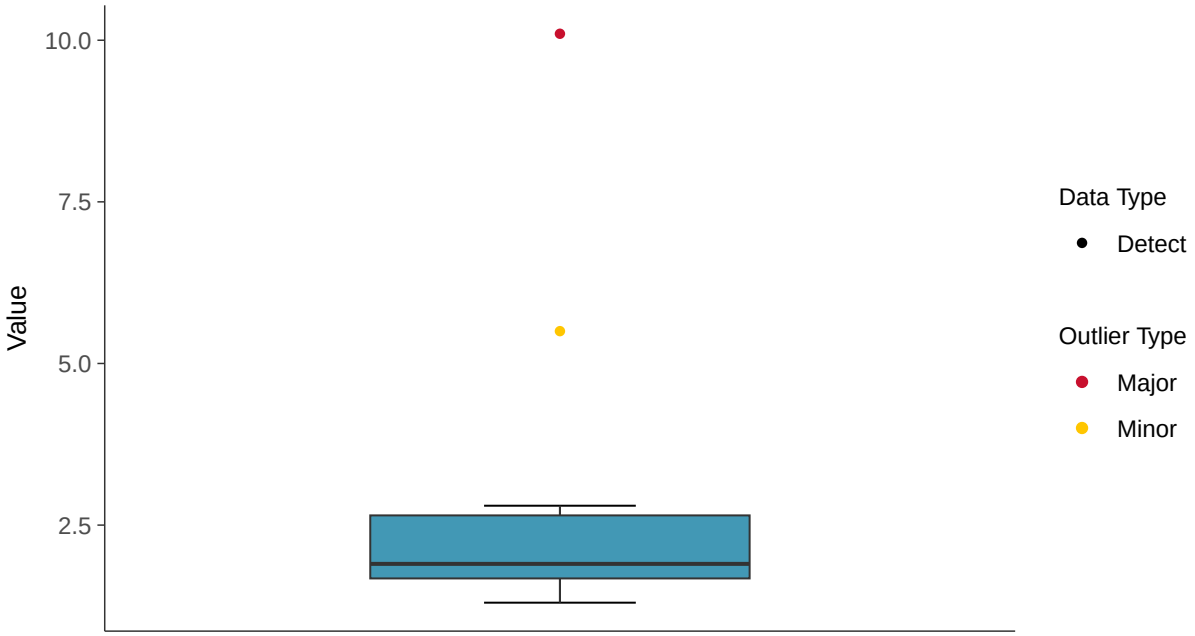
Histogram

Arsenic, MW-15016R (ug/L)



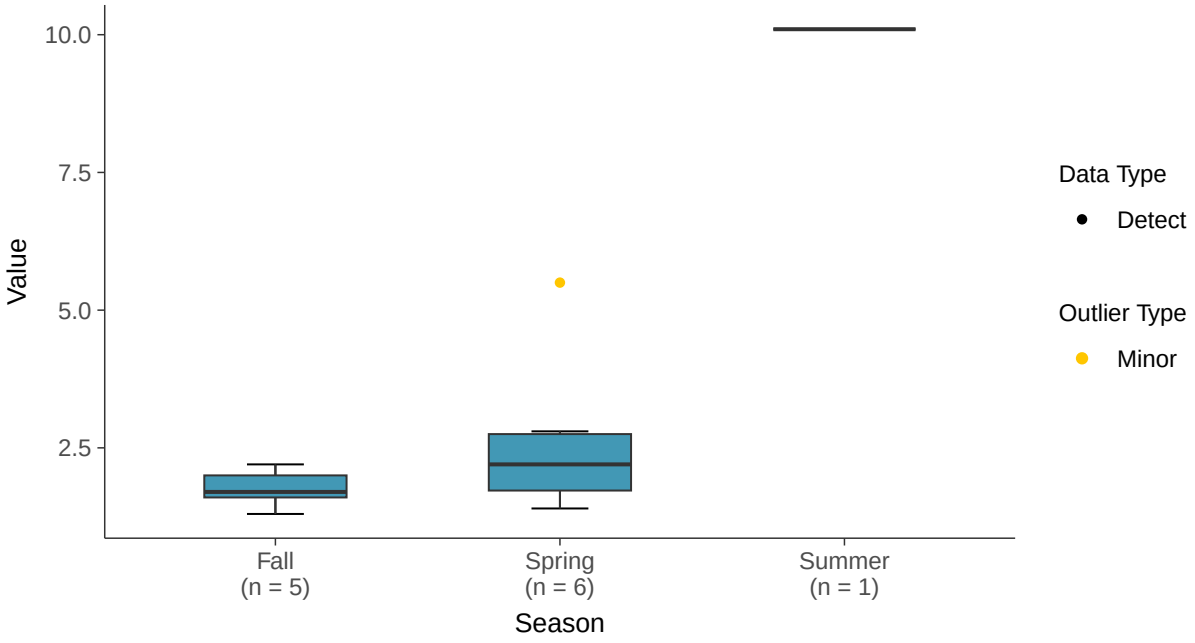
Boxplot

Arsenic, MW-15016R (ug/L)



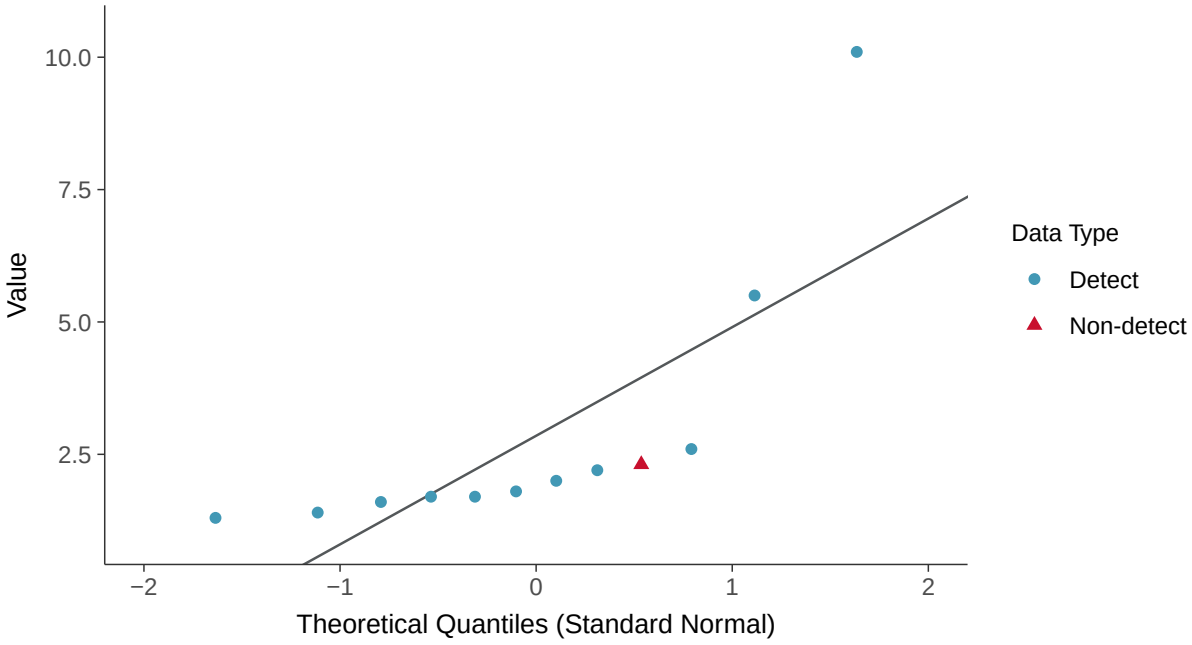
Boxplot by Season

Arsenic, MW-15016R (ug/L)



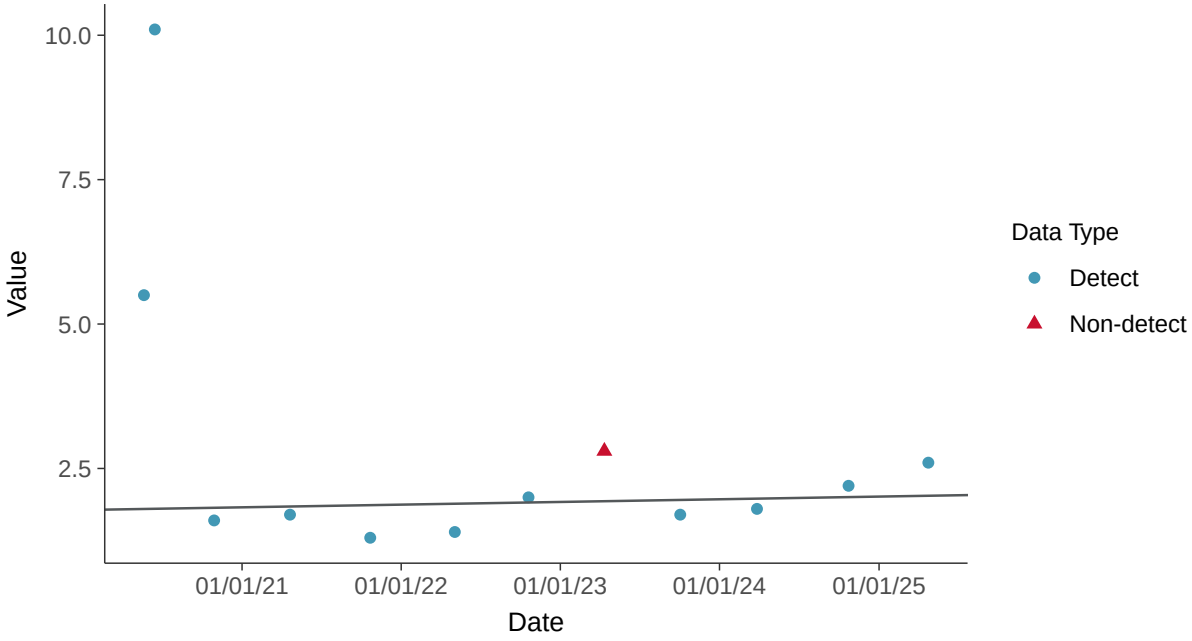
Normal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15016R (ug/L)



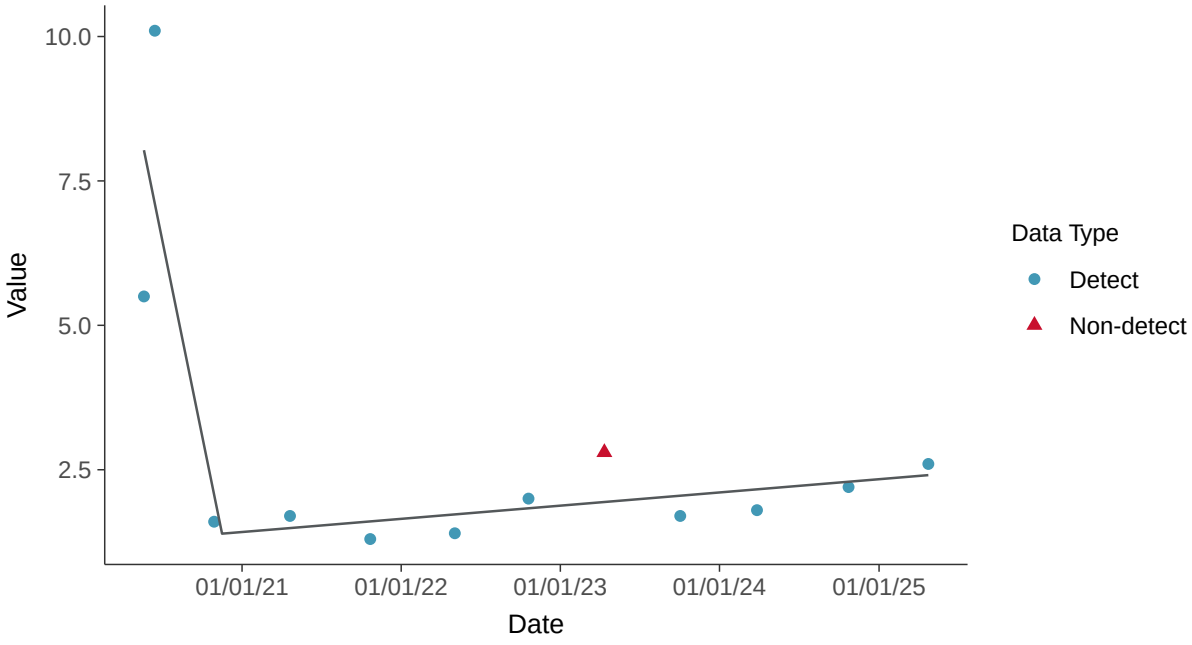
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-15016R (ug/L)



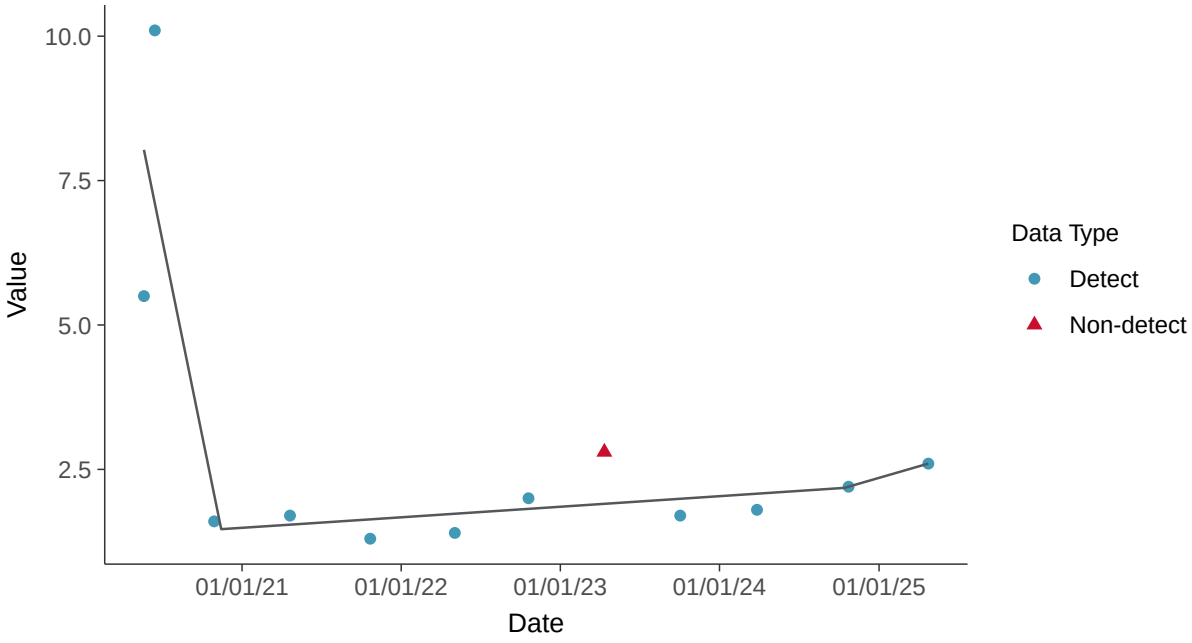
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-15016R (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-15016R (ug/L)

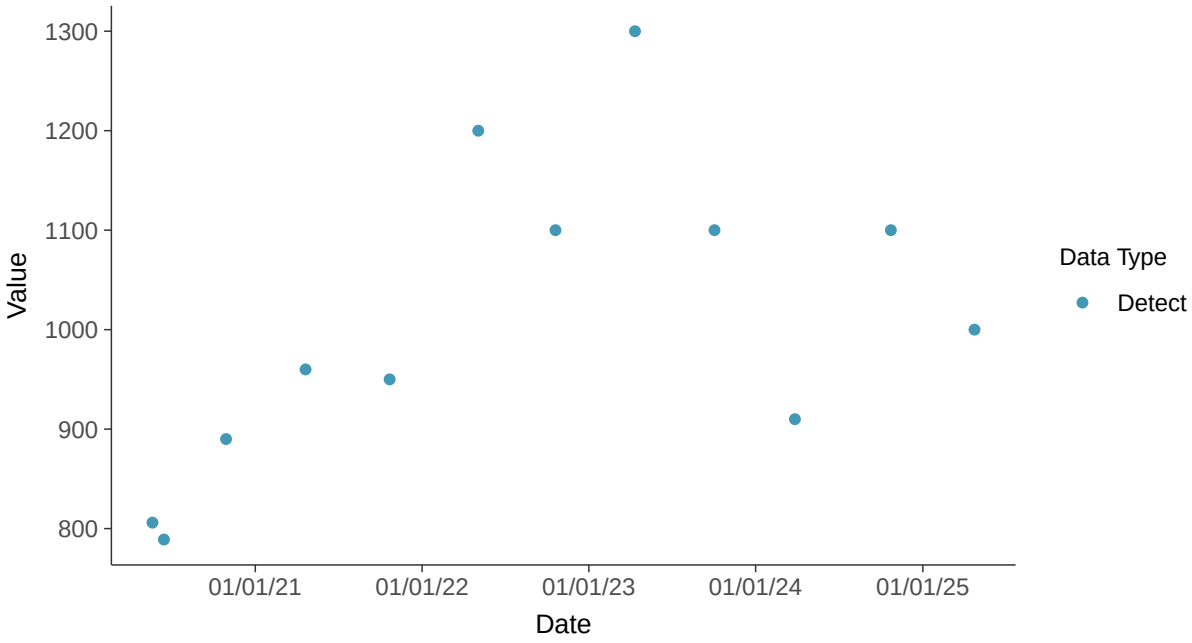


Appendix IV: Barium, MW-15016R

ID: 06_2_103

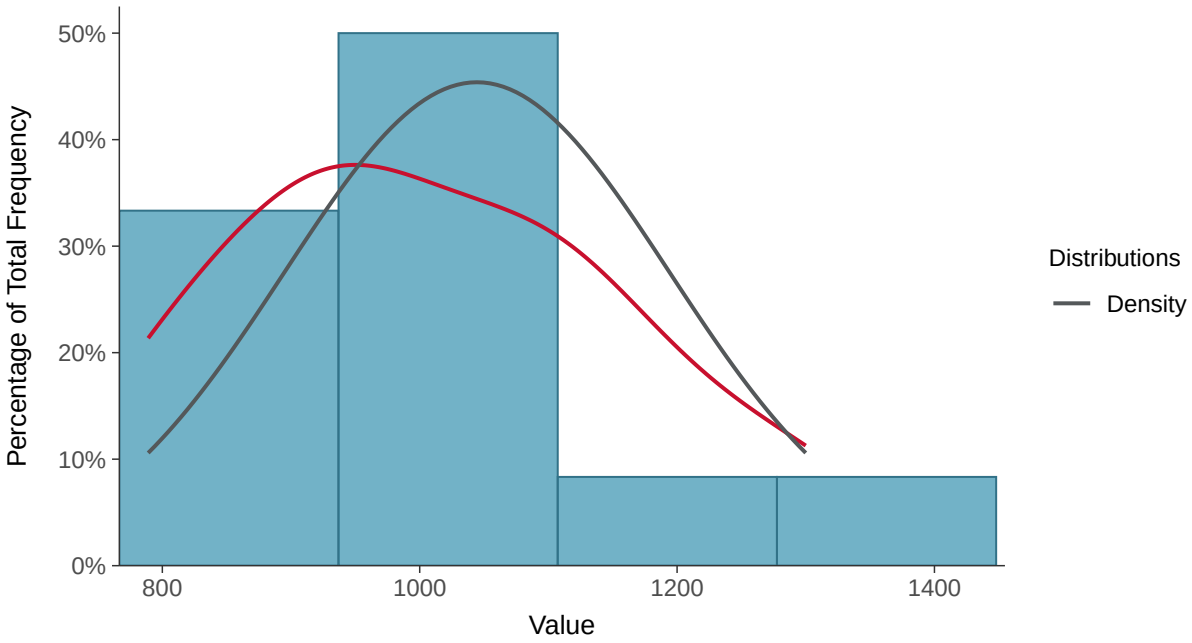
Scatter Plot

Barium, MW-15016R (ug/L)



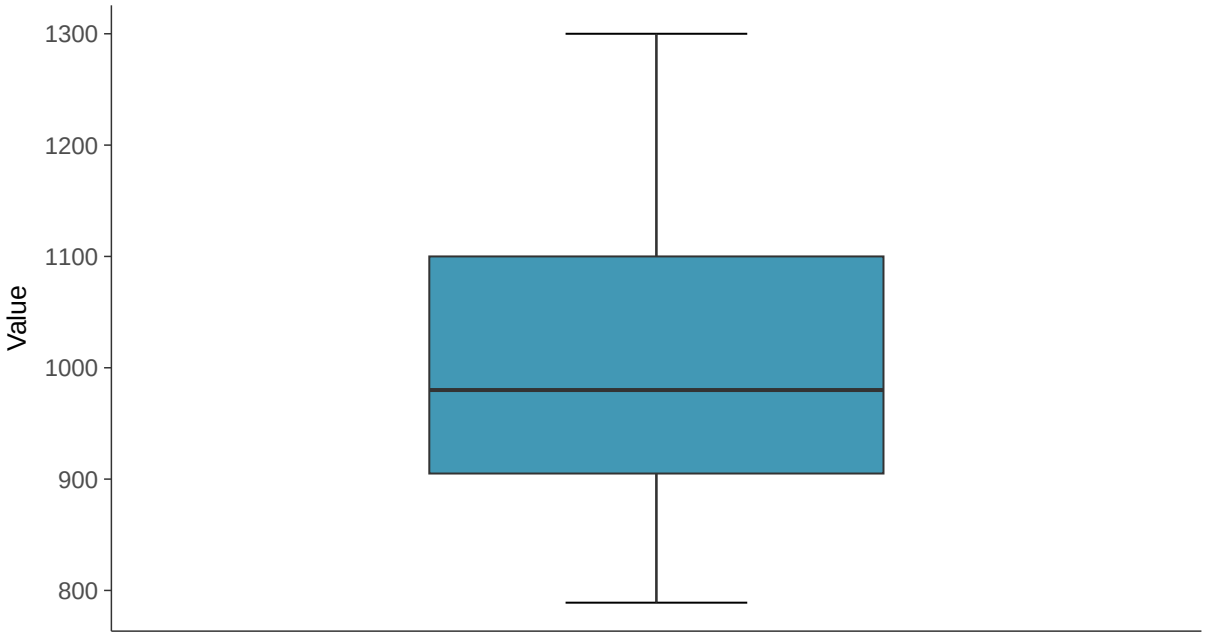
Histogram

Barium, MW-15016R (ug/L)



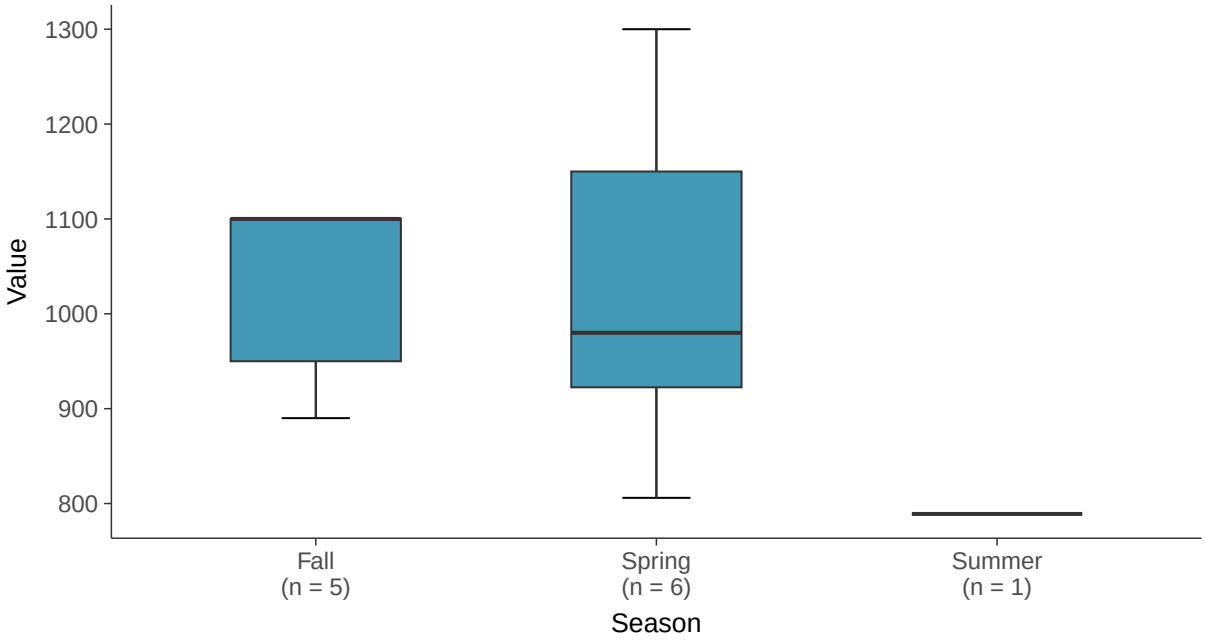
Boxplot

Barium, MW-15016R (ug/L)



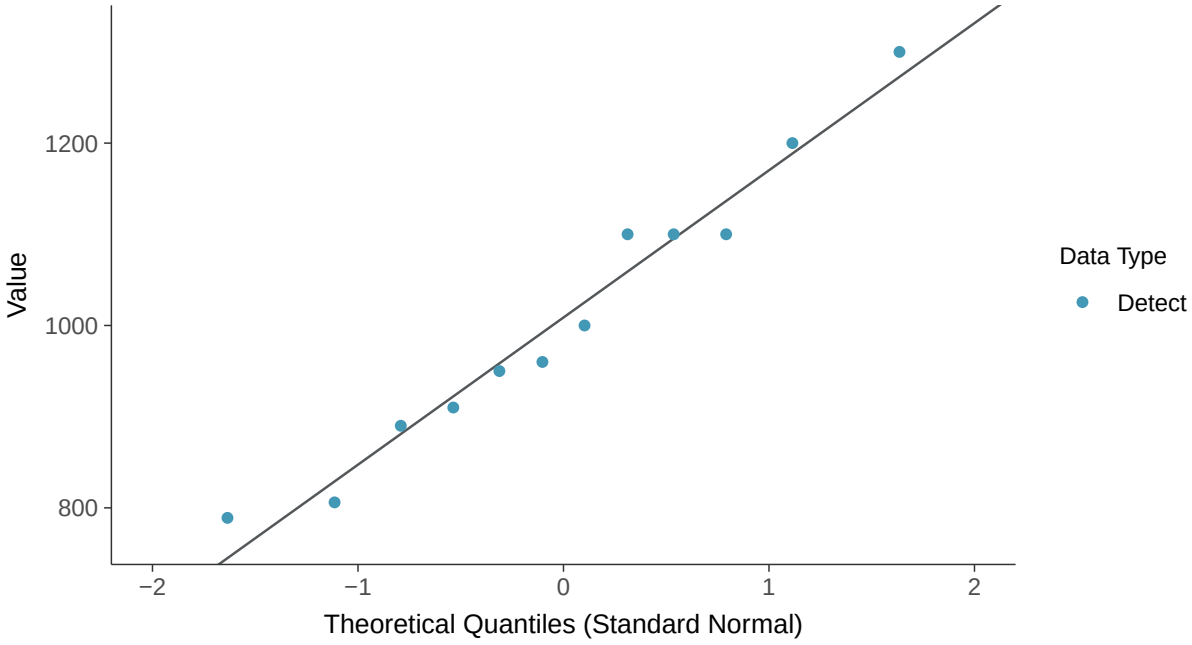
Boxplot by Season

Barium, MW-15016R (ug/L)



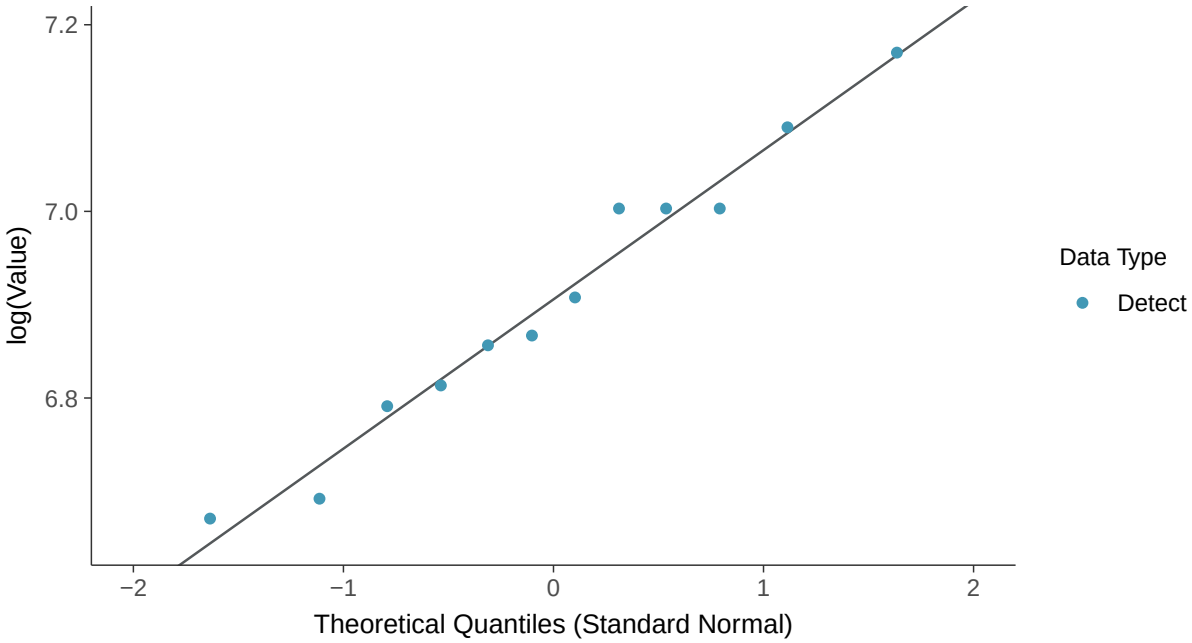
Normal Q-Q plot

Barium, MW-15016R (ug/L)



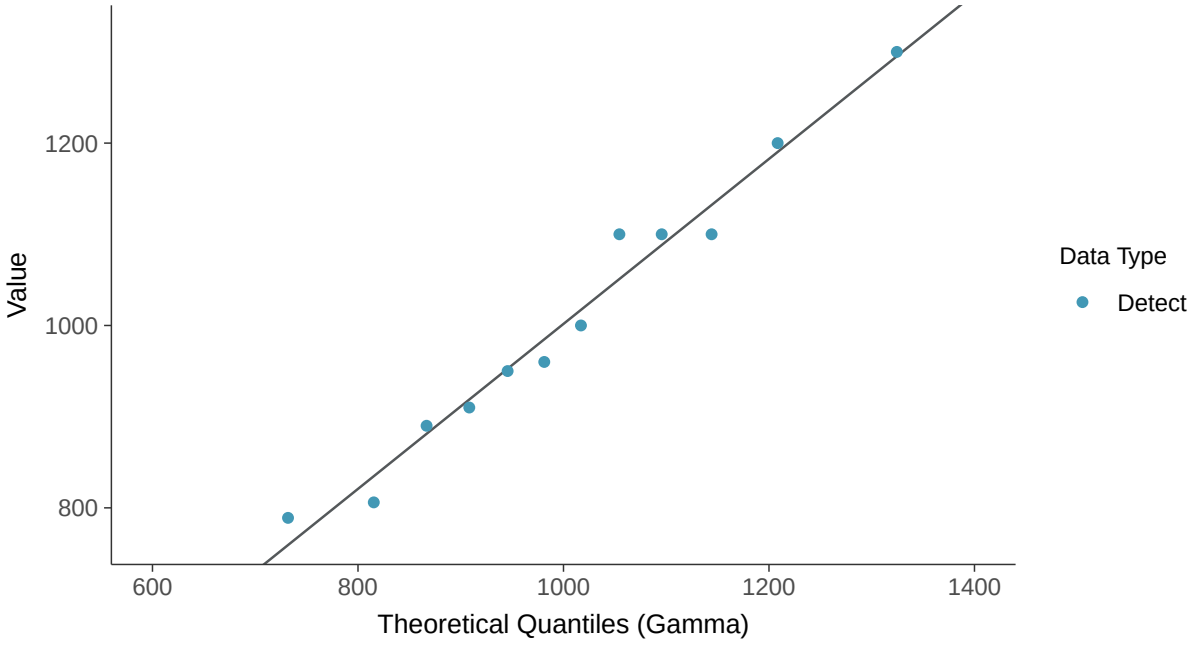
Lognormal Q-Q plot

Barium, MW-15016R (ug/L)



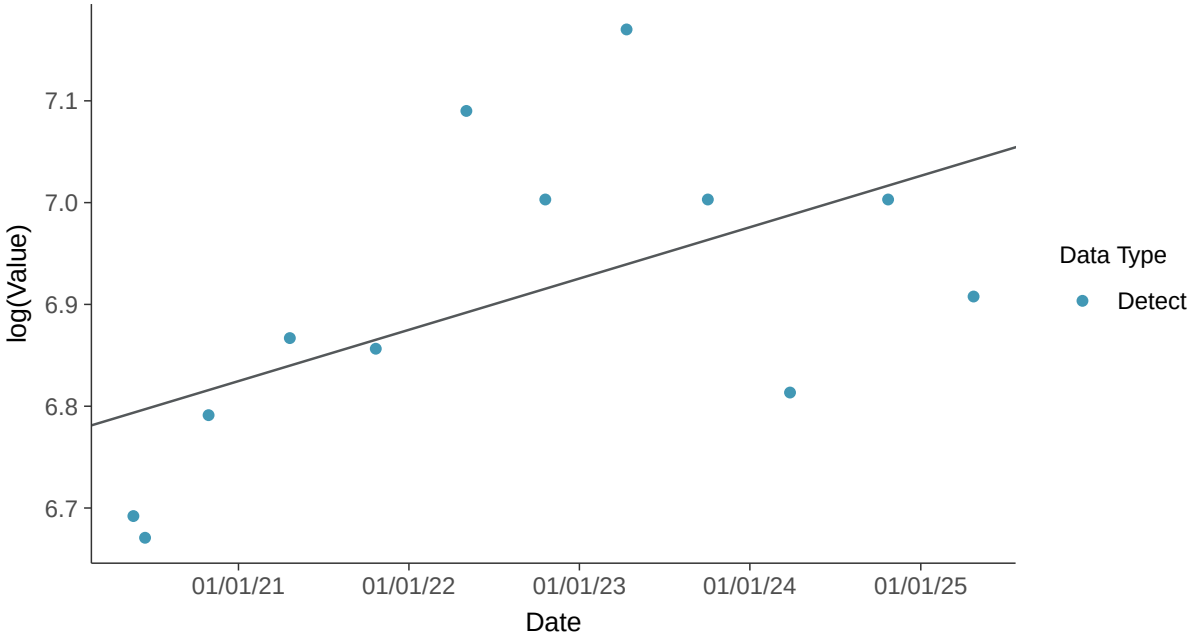
Gamma Q-Q plot

Barium, MW-15016R (ug/L)



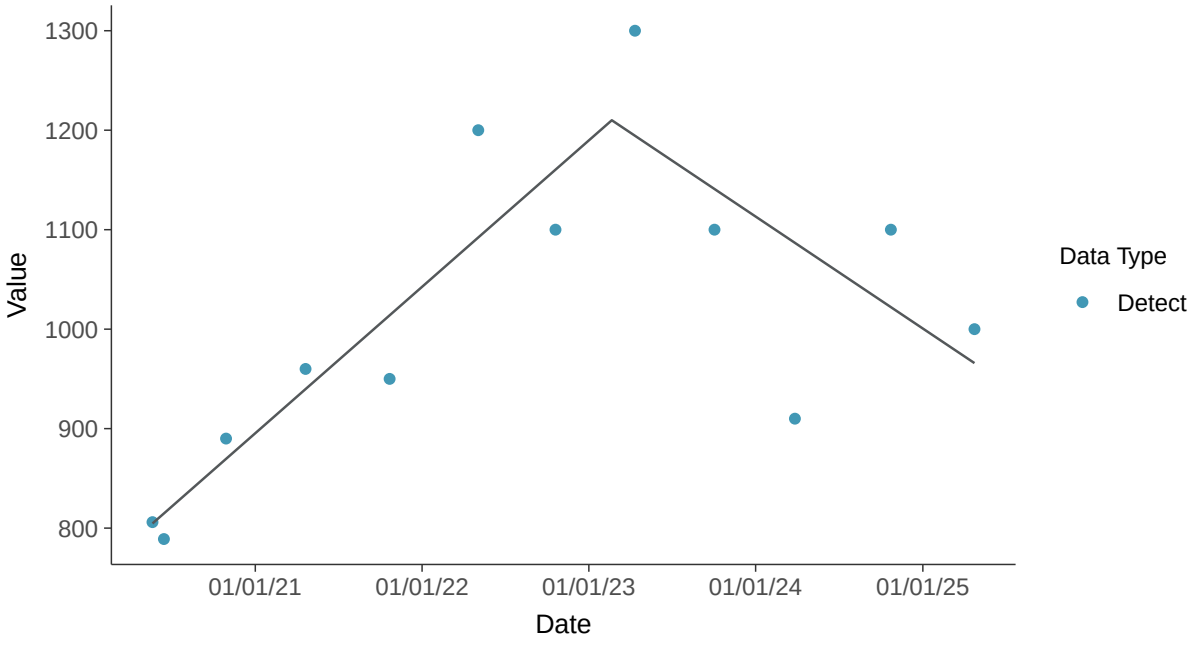
Trend Regression: Lognormal MLE

Barium, MW-15016R (ug/L)



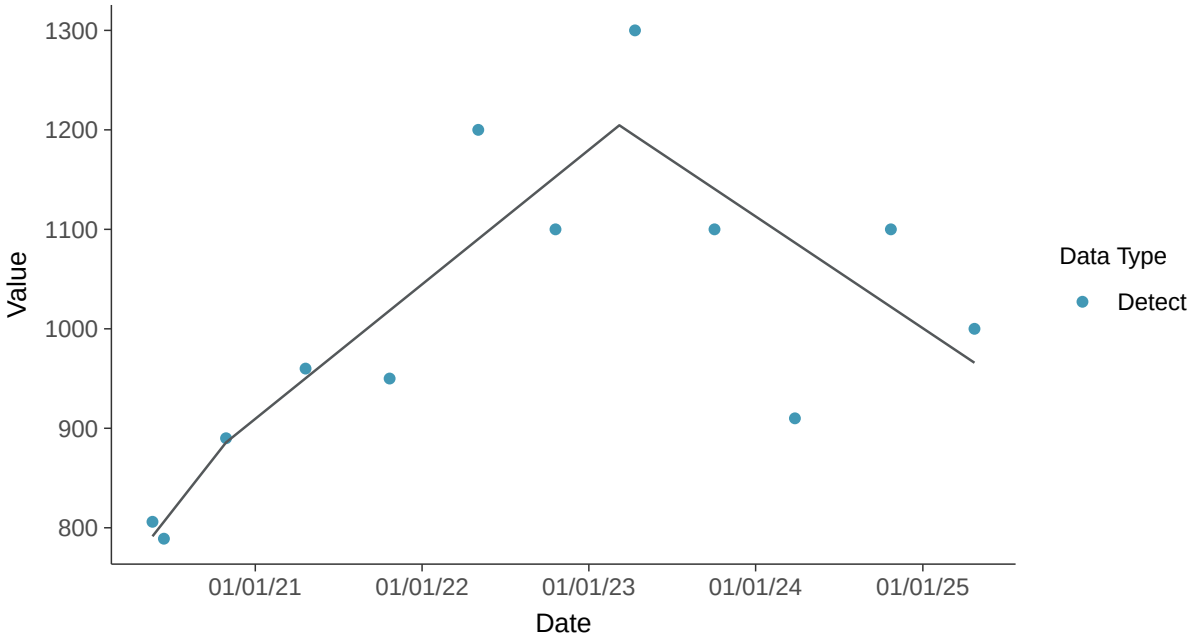
Trend Regression: Piecewise Linear-Linear

Barium, MW-15016R (ug/L)



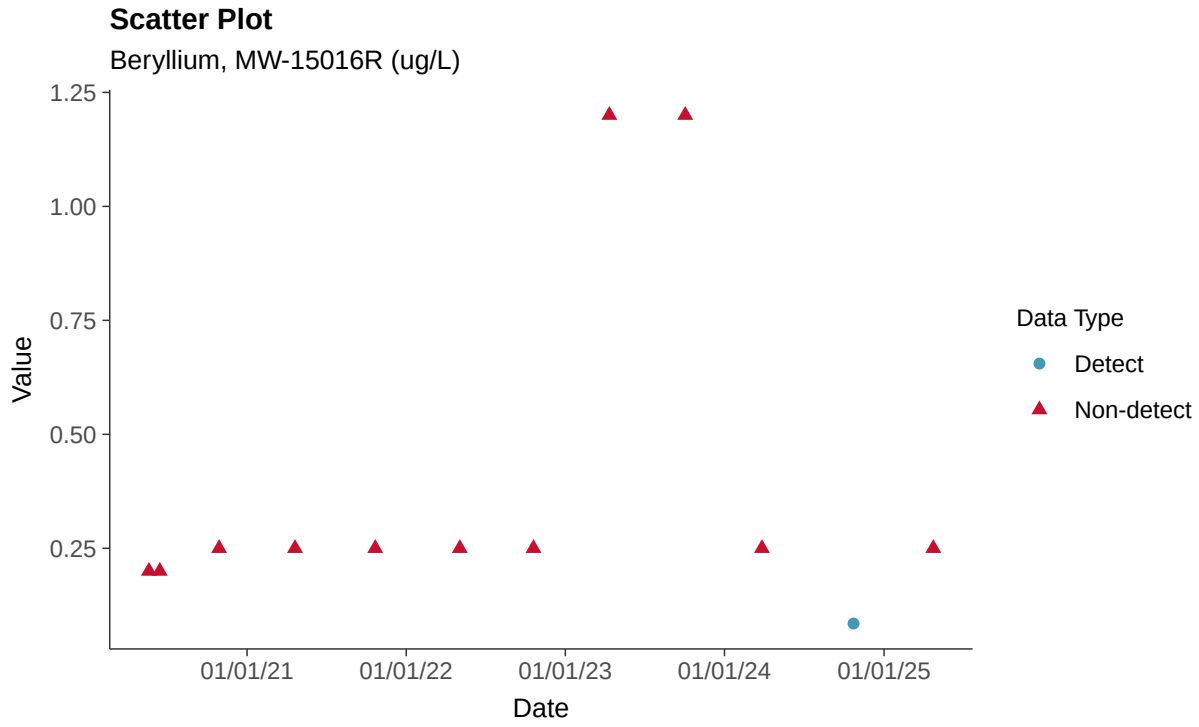
Trend Regression: Piecewise Linear-Linear-Linear

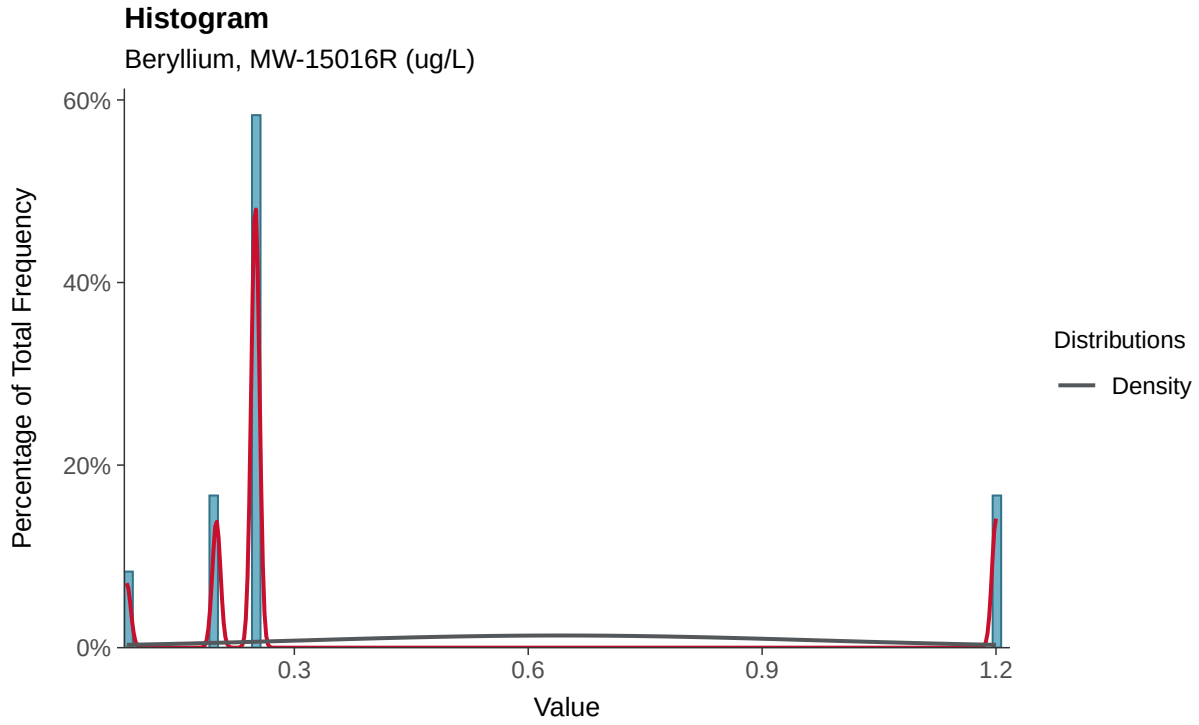
Barium, MW-15016R (ug/L)



Appendix IV: Beryllium, MW-15016R

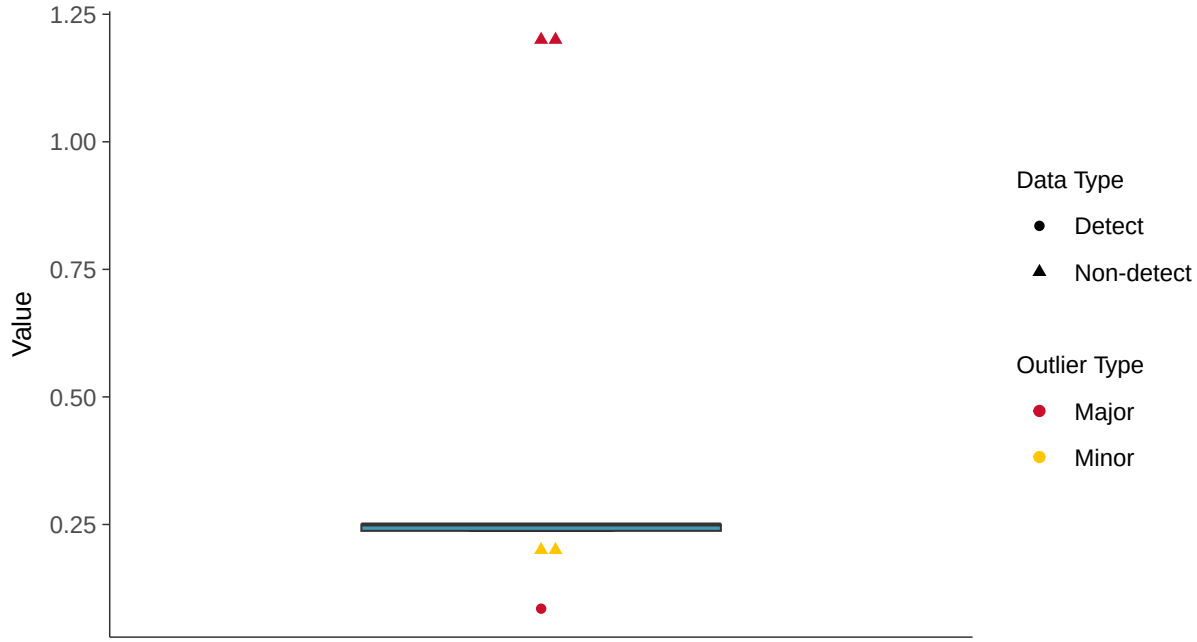
ID: 06_2_104





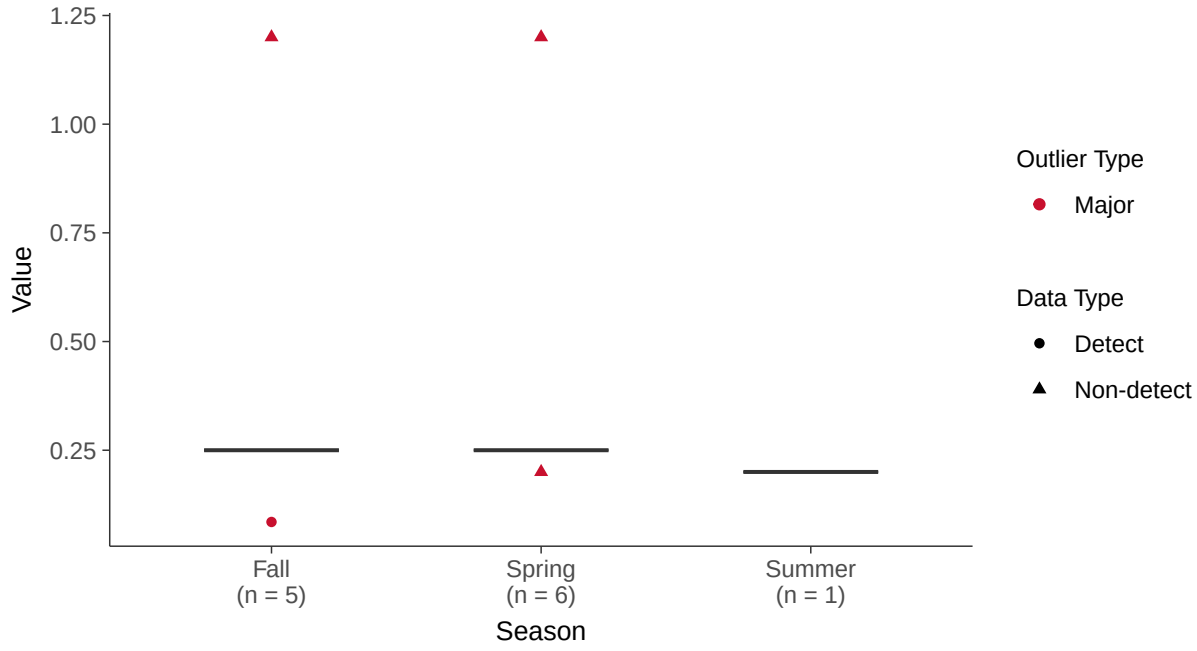
Boxplot

Beryllium, MW-15016R (ug/L)



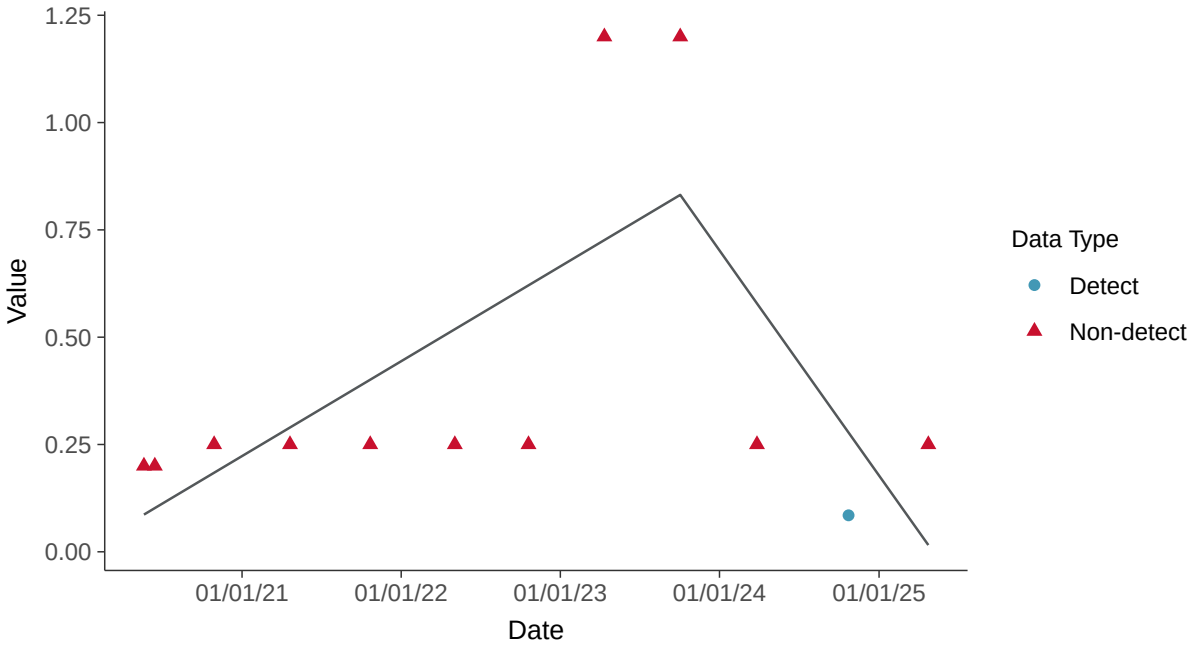
Boxplot by Season

Beryllium, MW-15016R (ug/L)



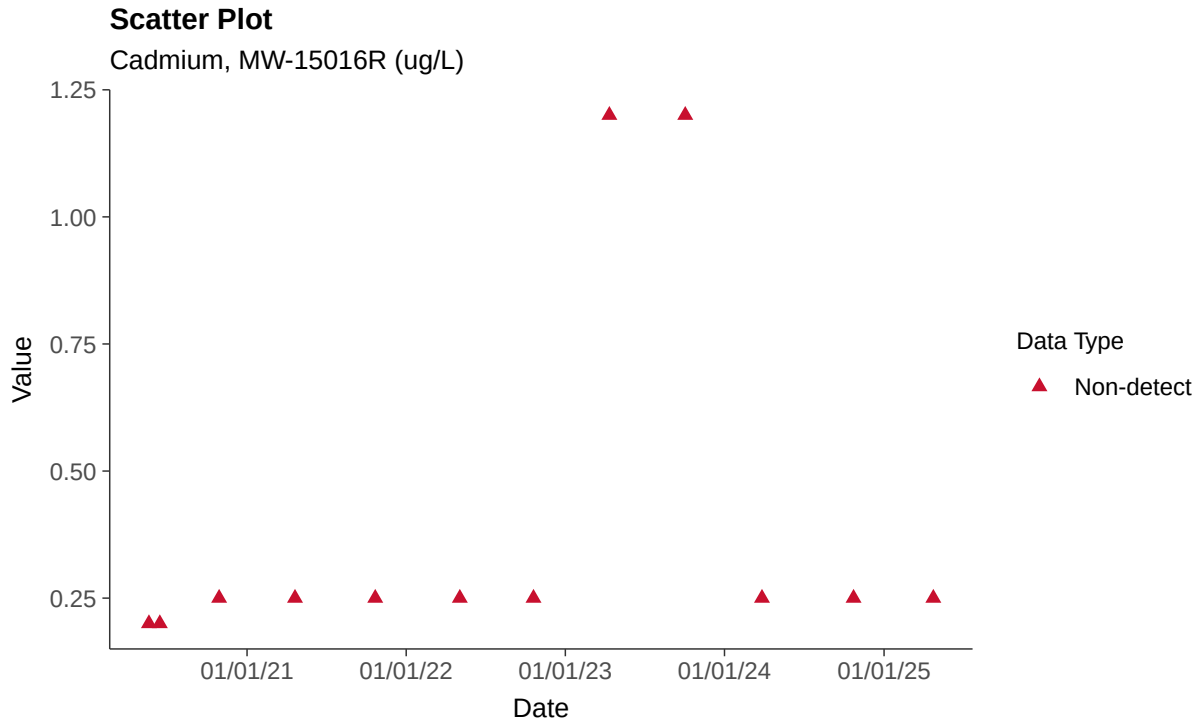
Trend Regression: Piecewise Linear-Linear

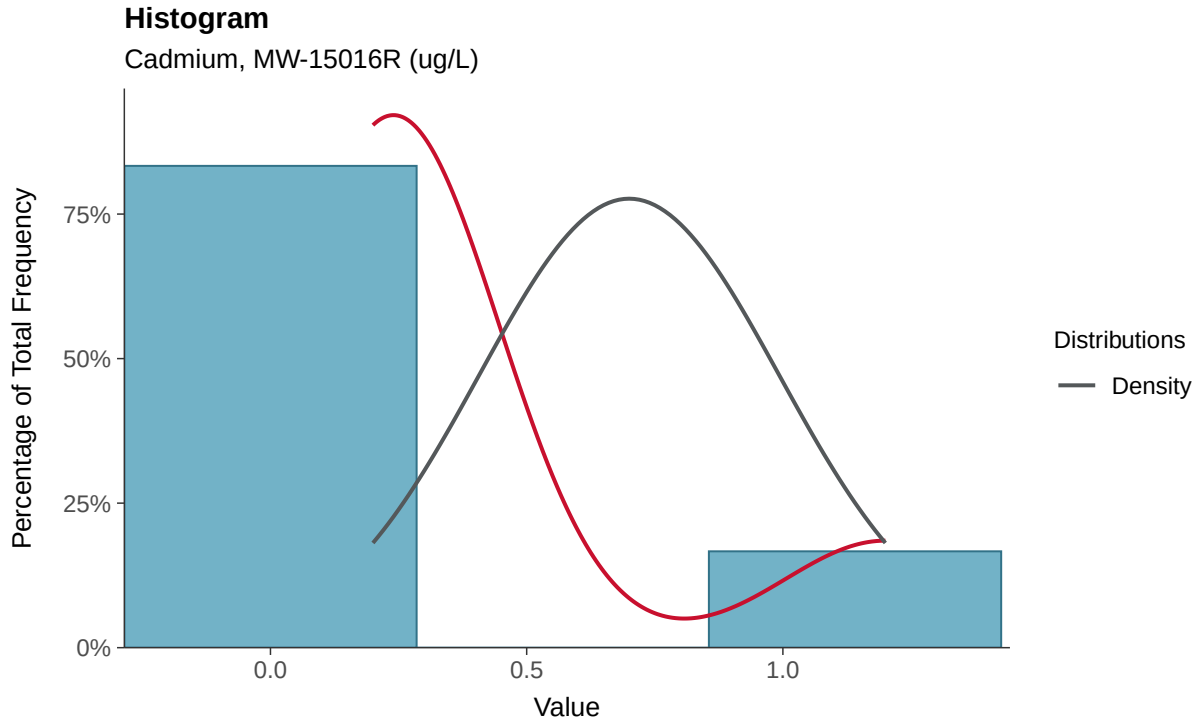
Beryllium, MW-15016R (ug/L)



Appendix IV: Cadmium, MW-15016R

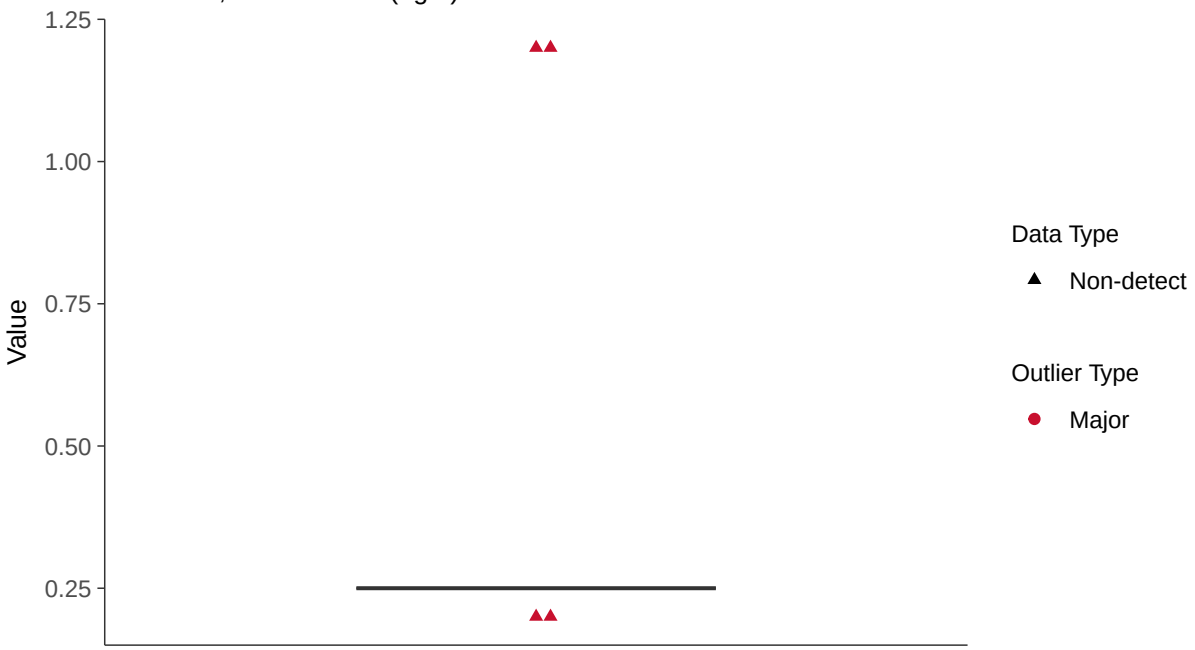
ID: 06_2_106





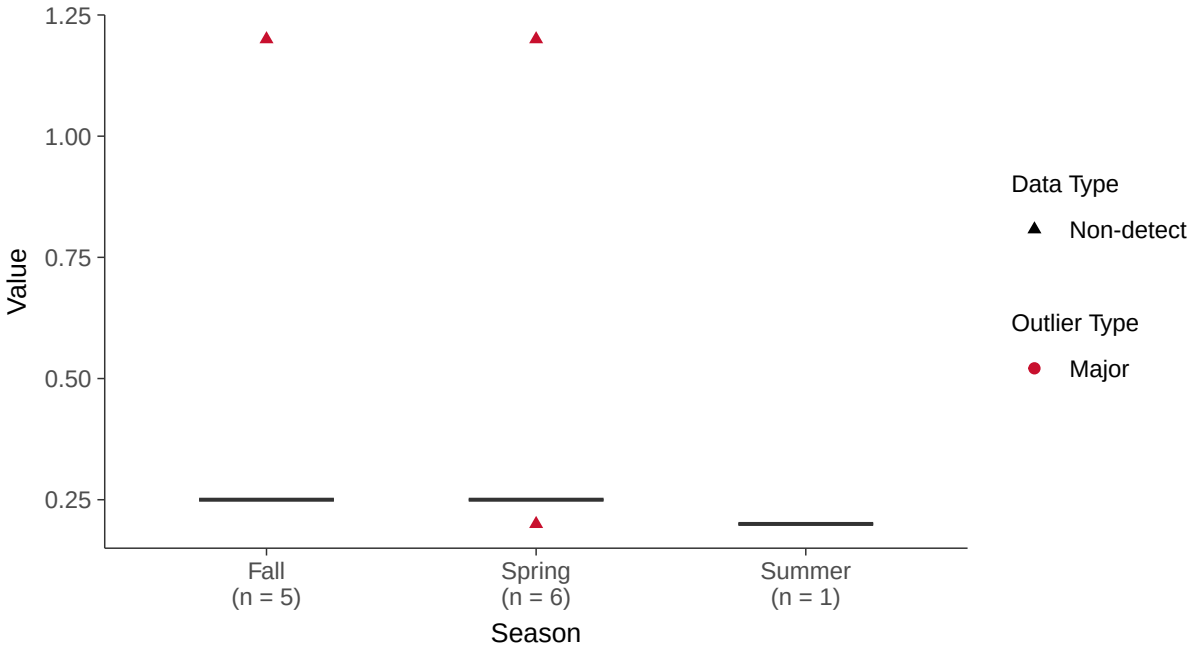
Boxplot

Cadmium, MW-15016R (ug/L)



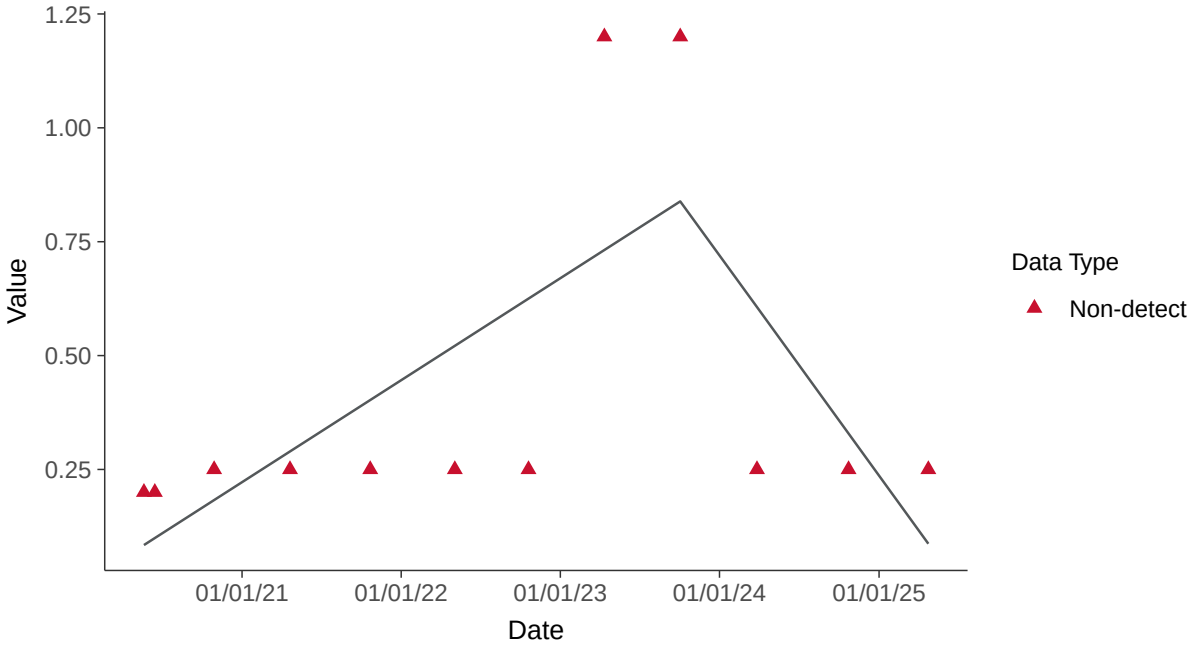
Boxplot by Season

Cadmium, MW-15016R (ug/L)



Trend Regression: Piecewise Linear-Linear

Cadmium, MW-15016R (ug/L)

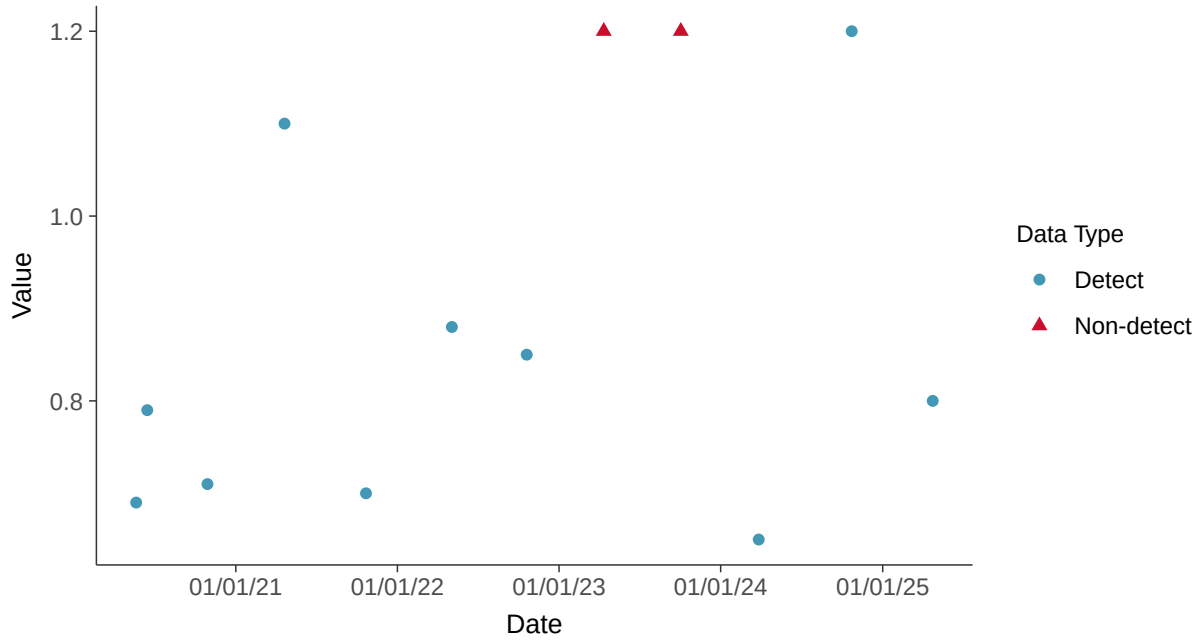


Appendix IV: Chromium, MW-15016R

ID: 06_2_109

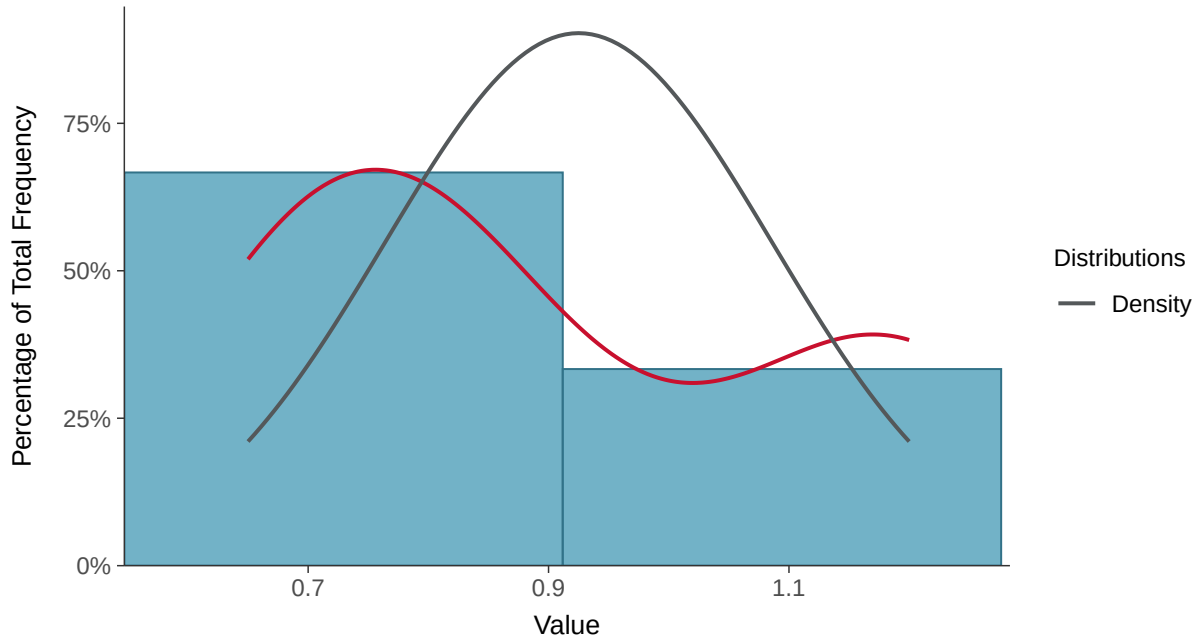
Scatter Plot

Chromium, MW-15016R (ug/L)



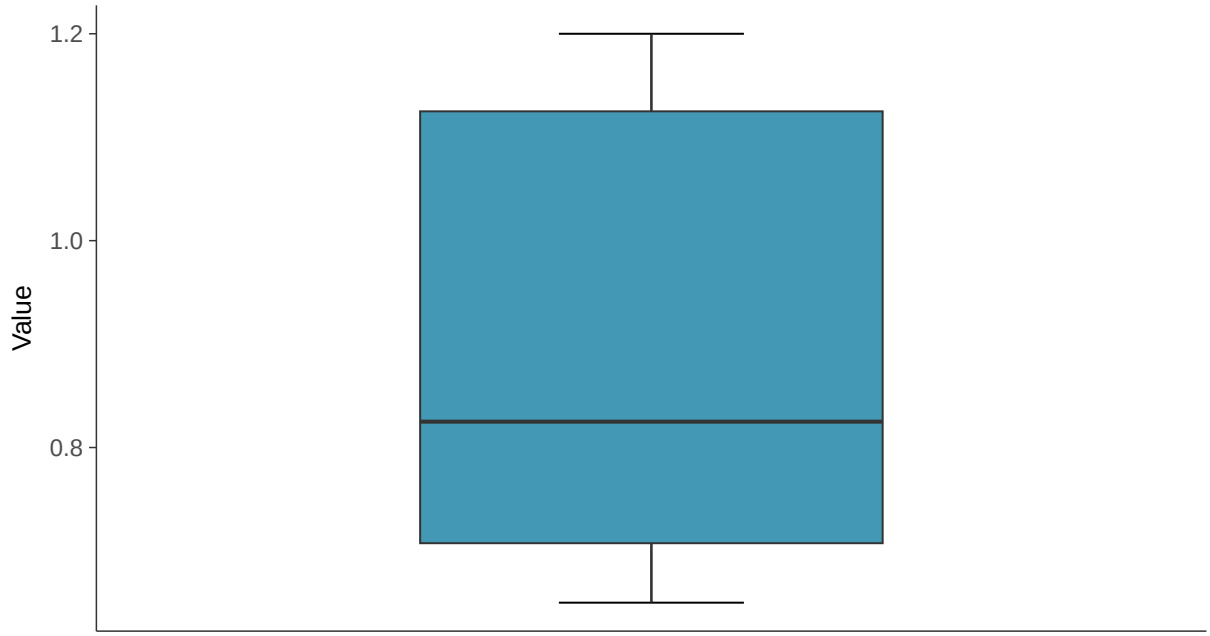
Histogram

Chromium, MW-15016R (ug/L)



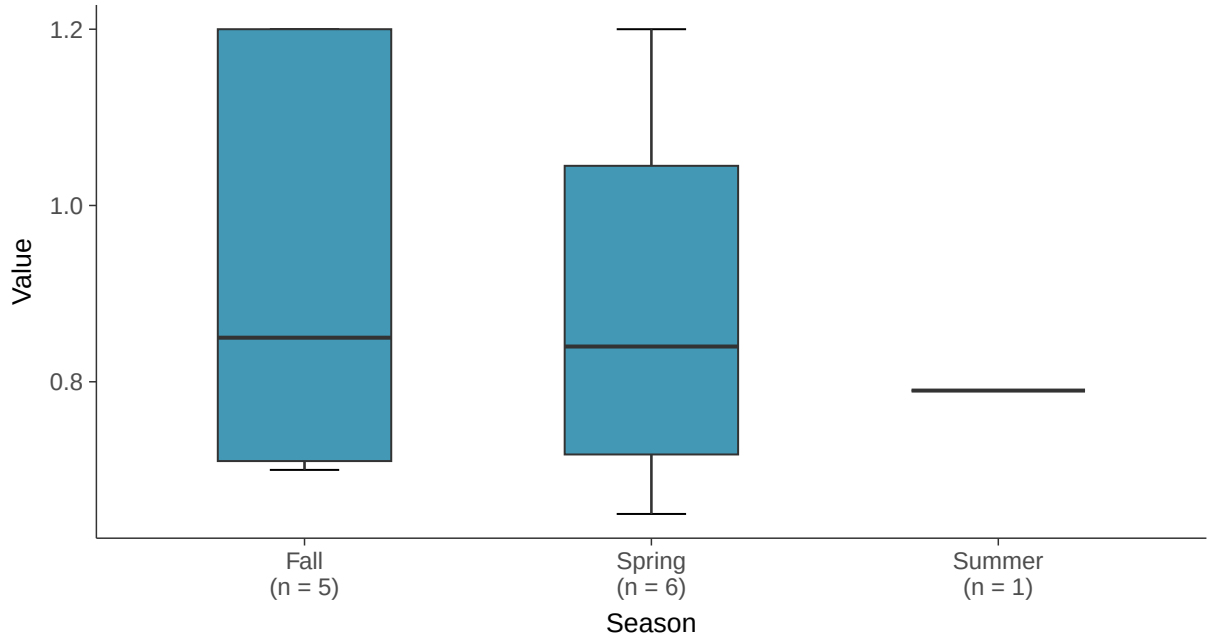
Boxplot

Chromium, MW-15016R (ug/L)



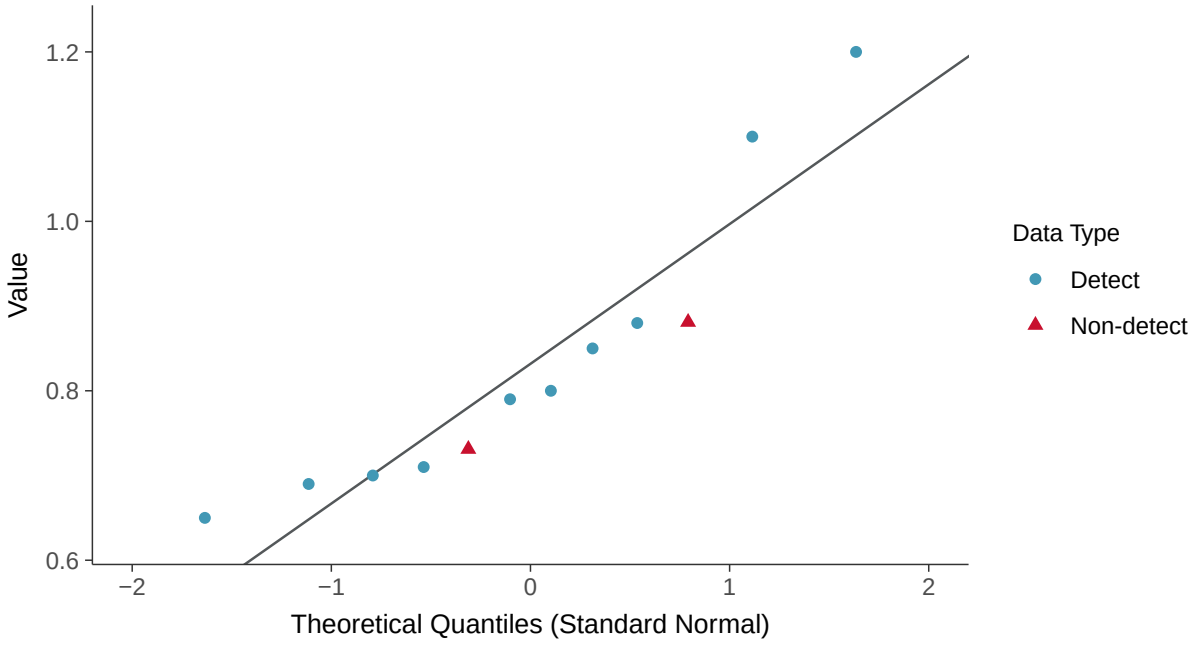
Boxplot by Season

Chromium, MW-15016R (ug/L)



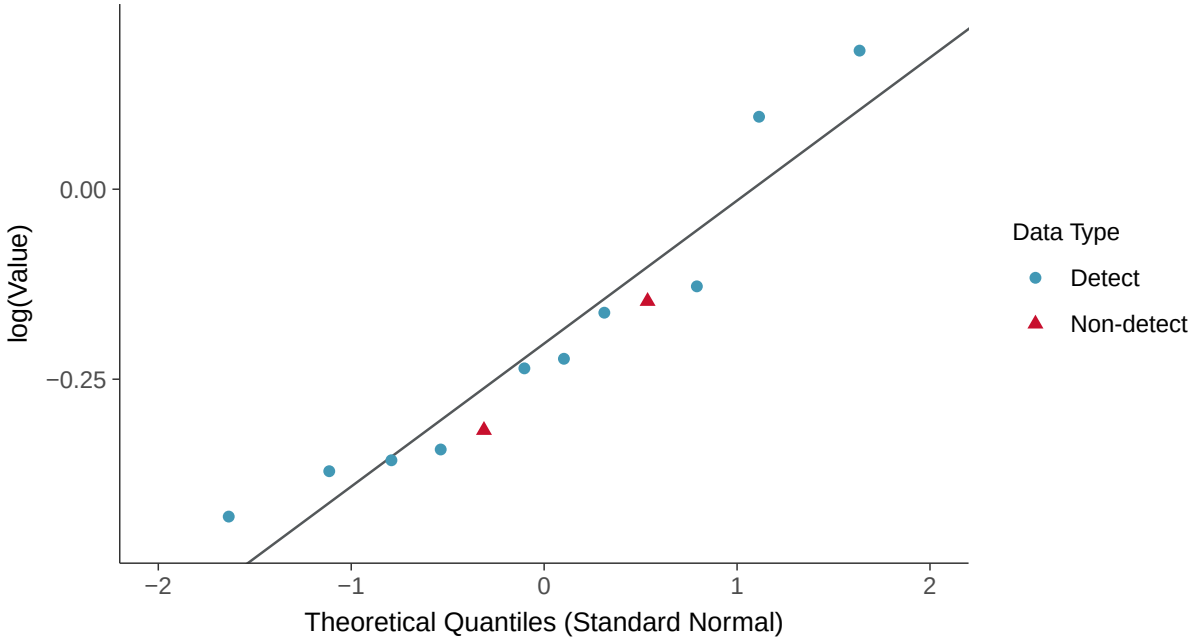
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15016R (ug/L)



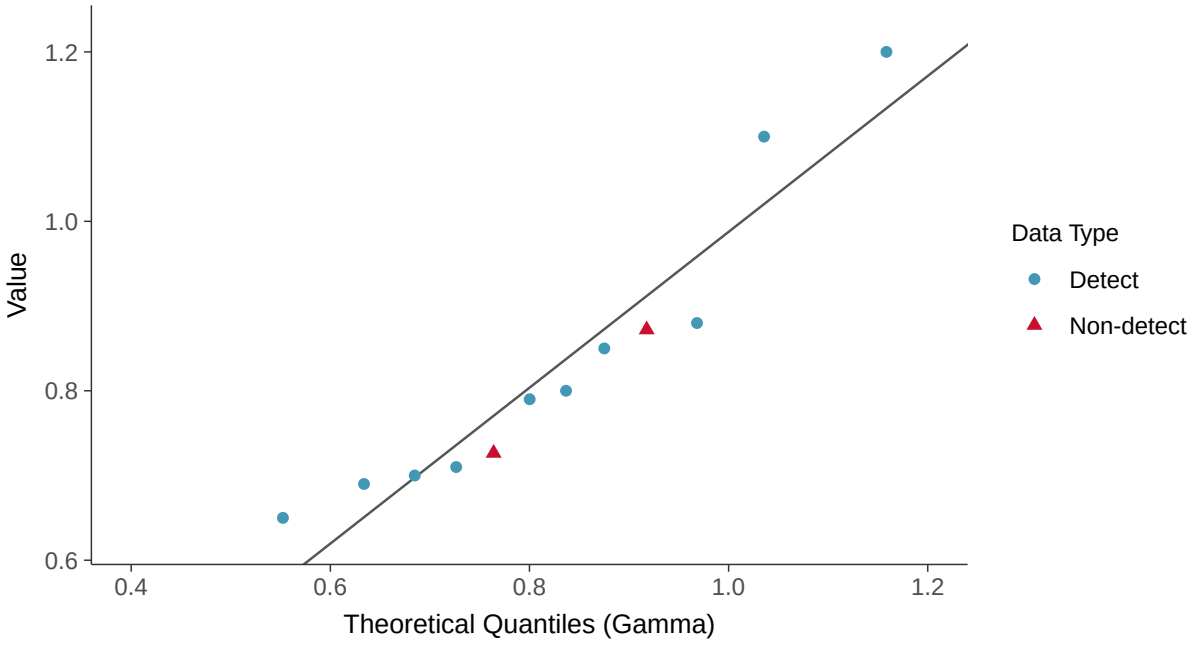
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15016R (ug/L)



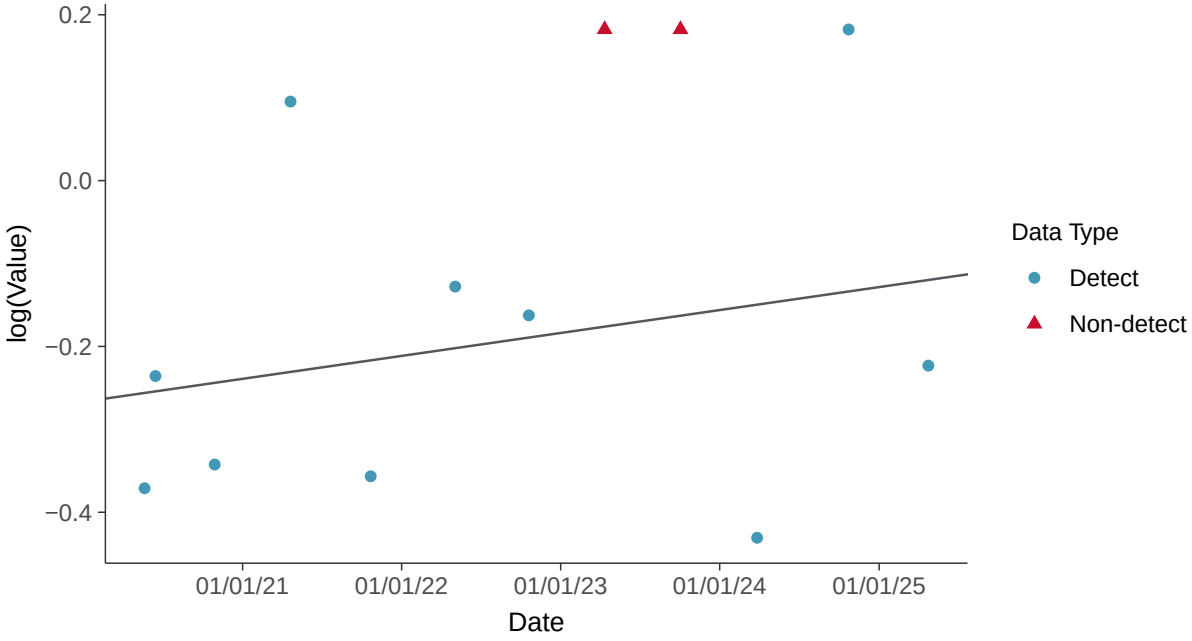
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, MW-15016R (ug/L)



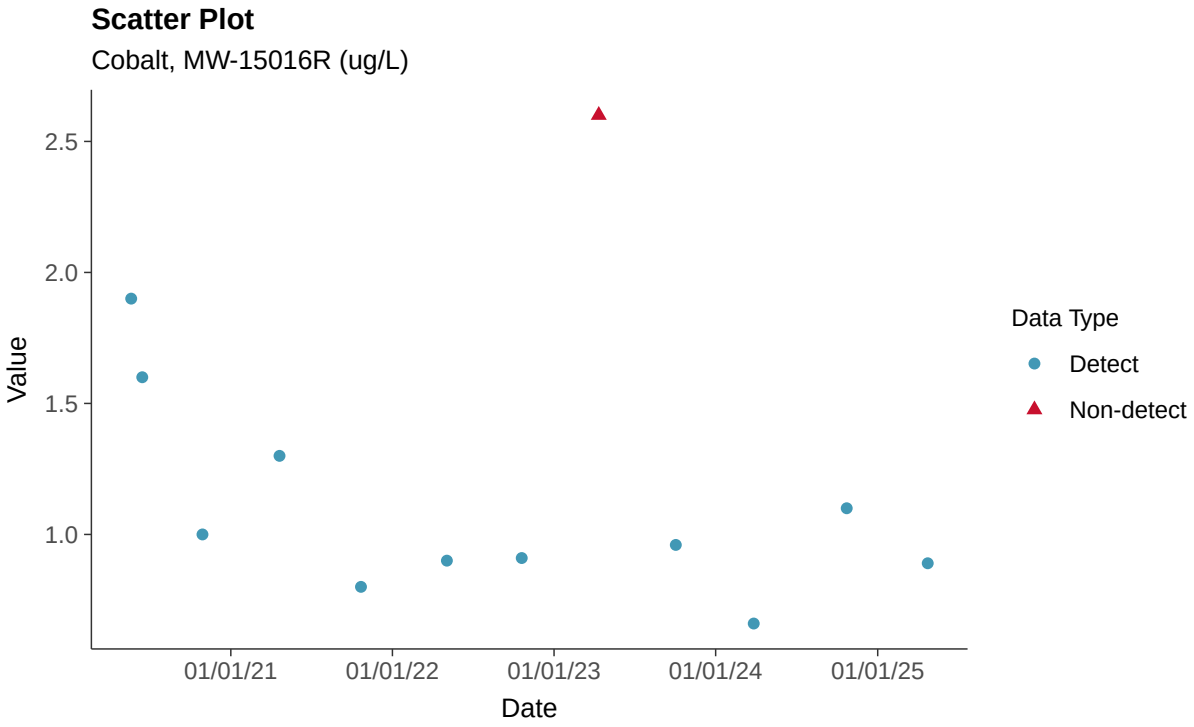
Trend Regression: Lognormal MLE

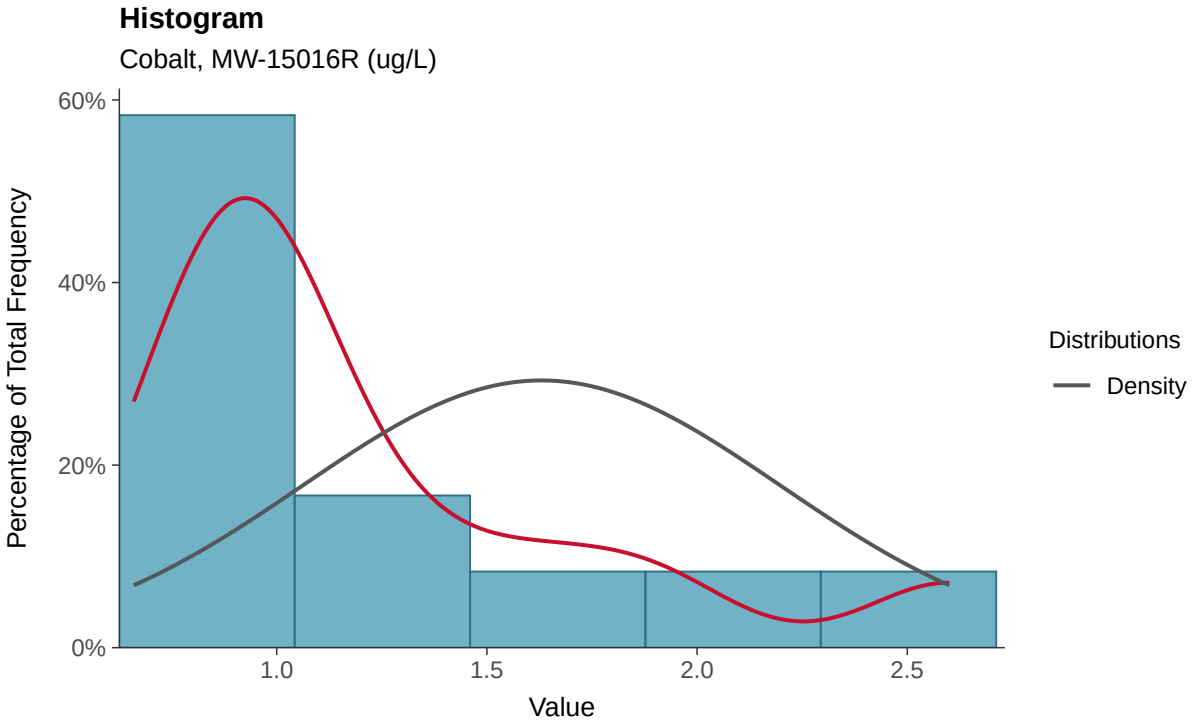
Chromium, MW-15016R (ug/L)



Appendix IV: Cobalt, MW-15016R

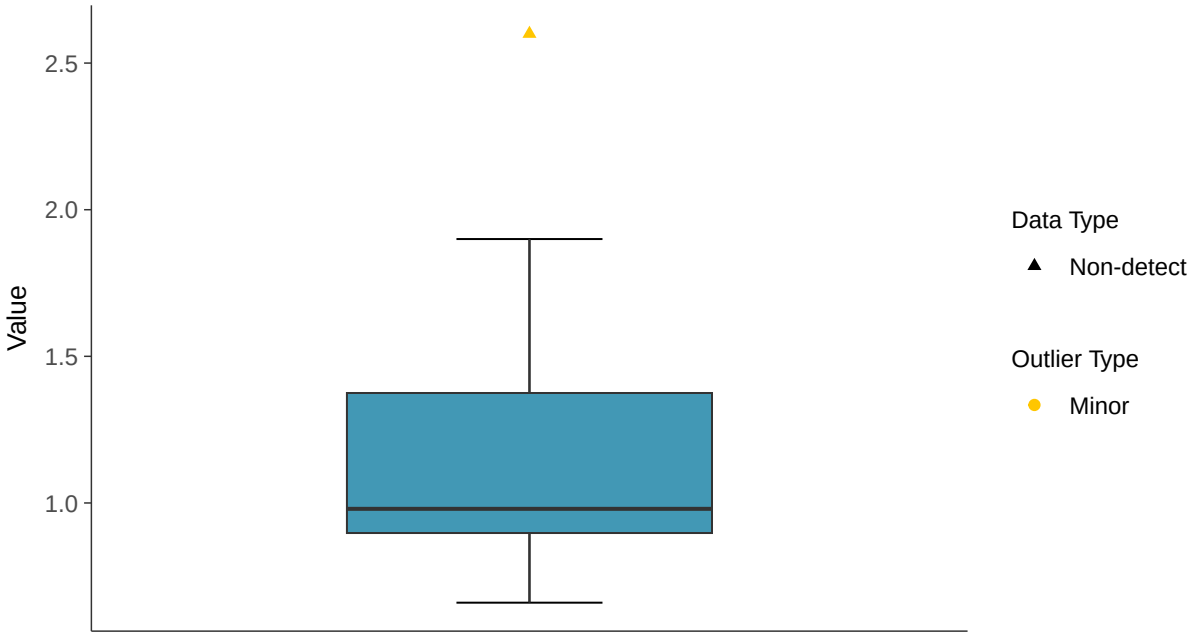
ID: 06_2_110





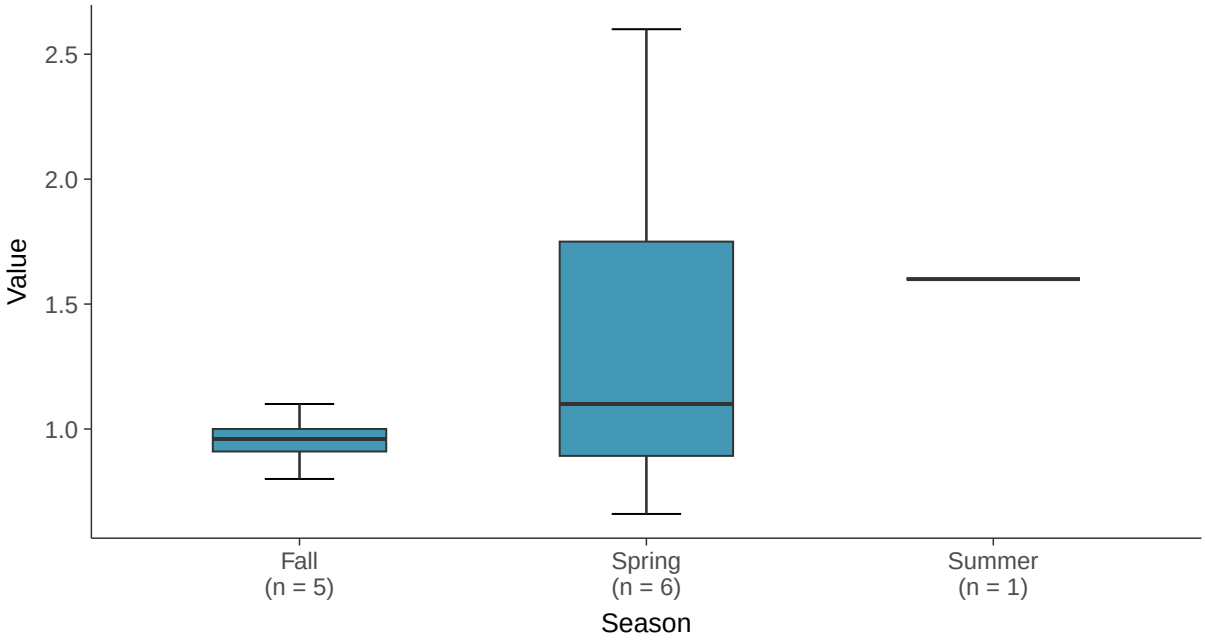
Boxplot

Cobalt, MW-15016R (ug/L)



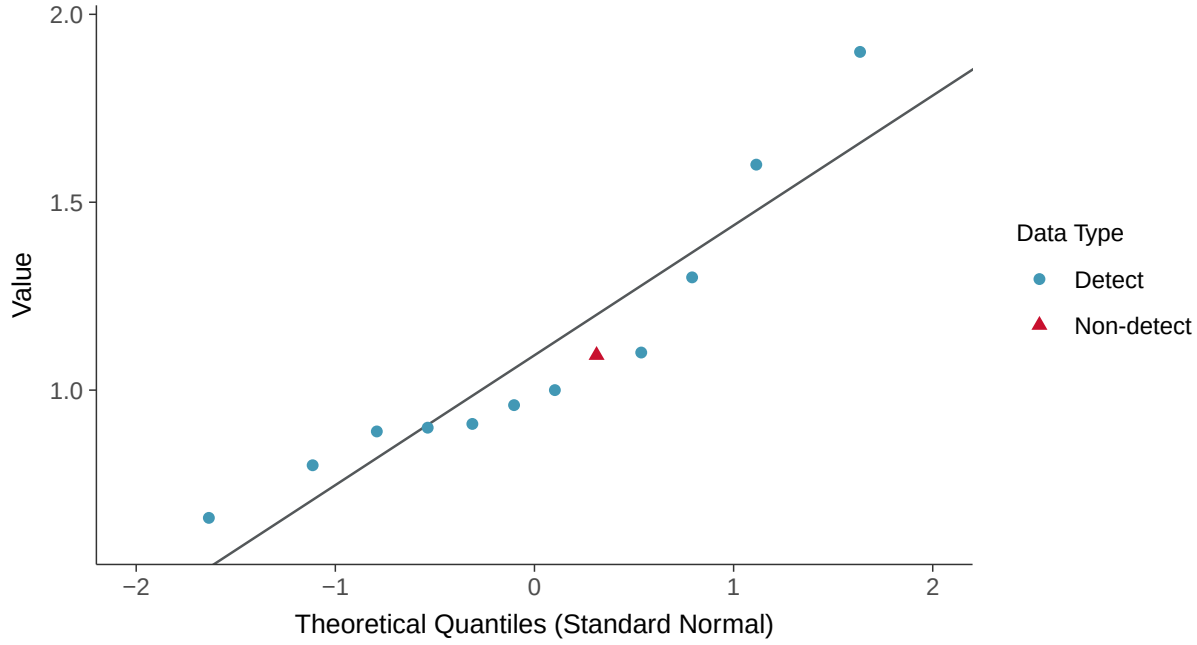
Boxplot by Season

Cobalt, MW-15016R (ug/L)



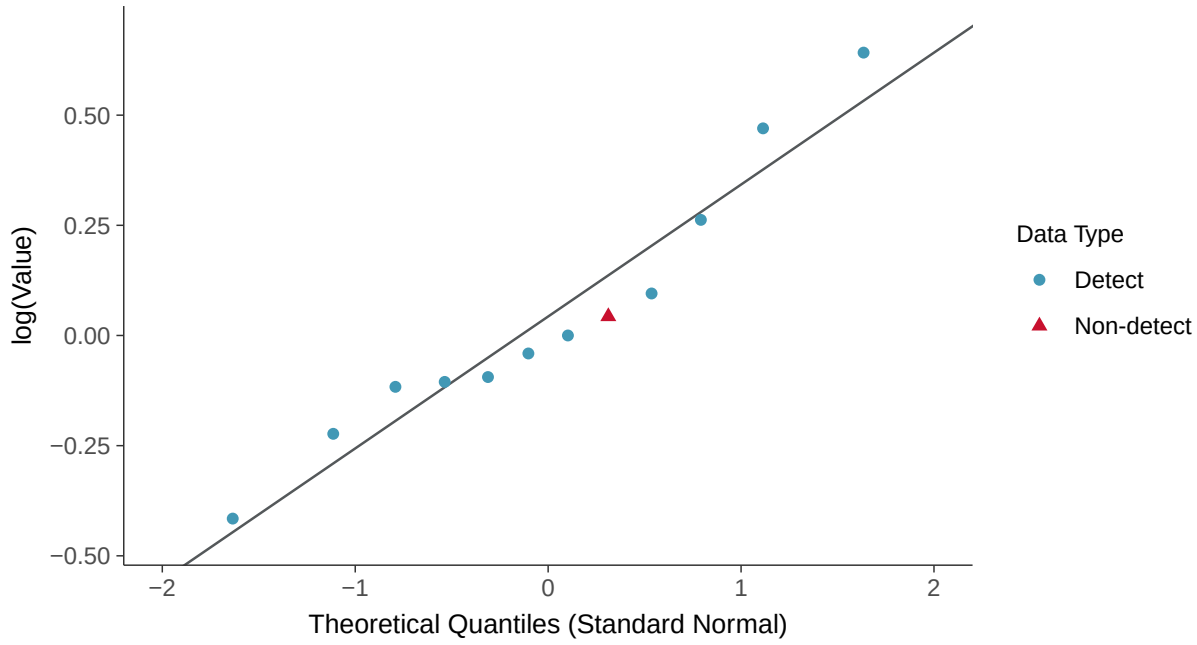
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15016R (ug/L)



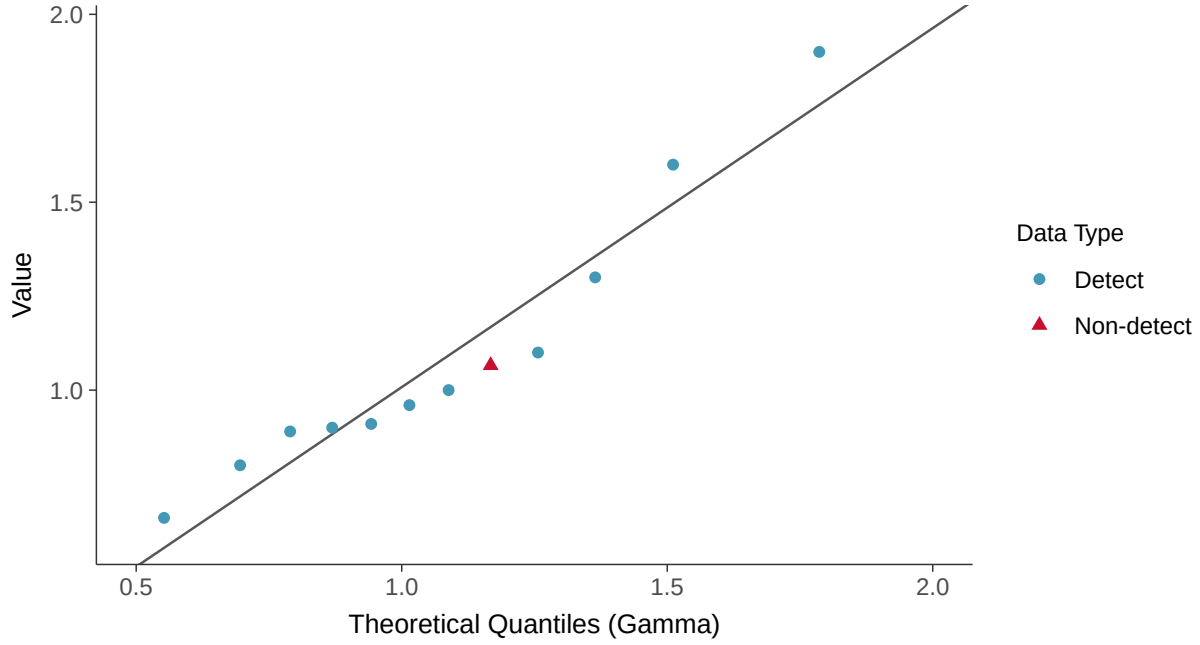
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15016R (ug/L)



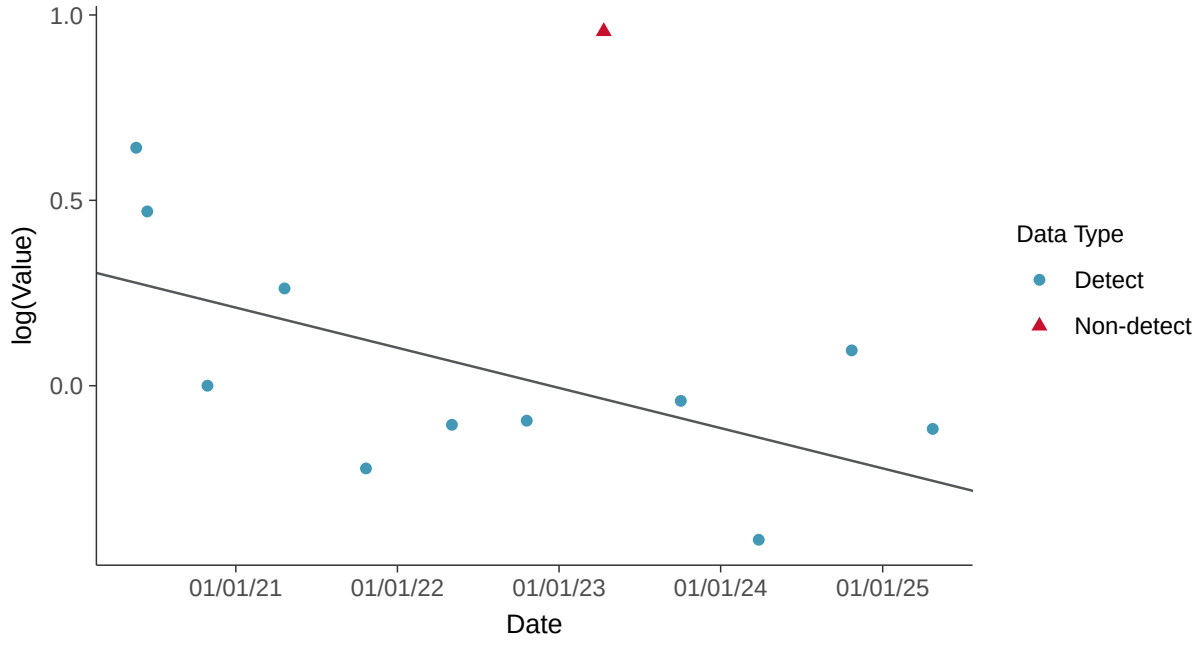
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15016R (ug/L)



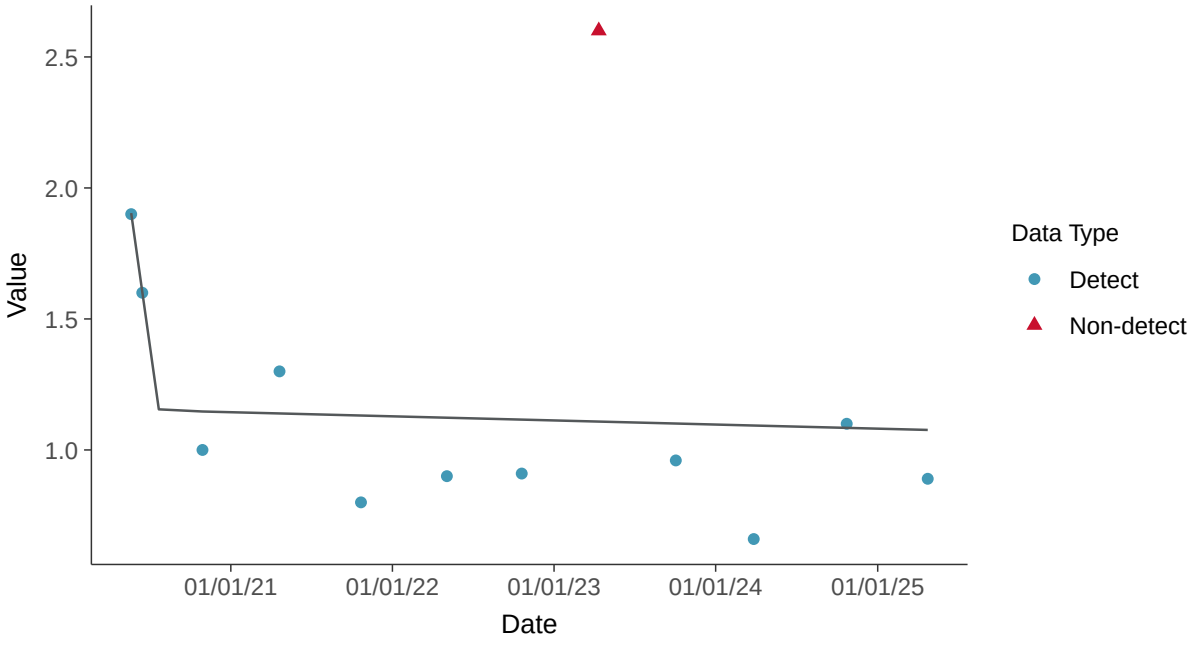
Trend Regression: Lognormal MLE

Cobalt, MW-15016R (ug/L)



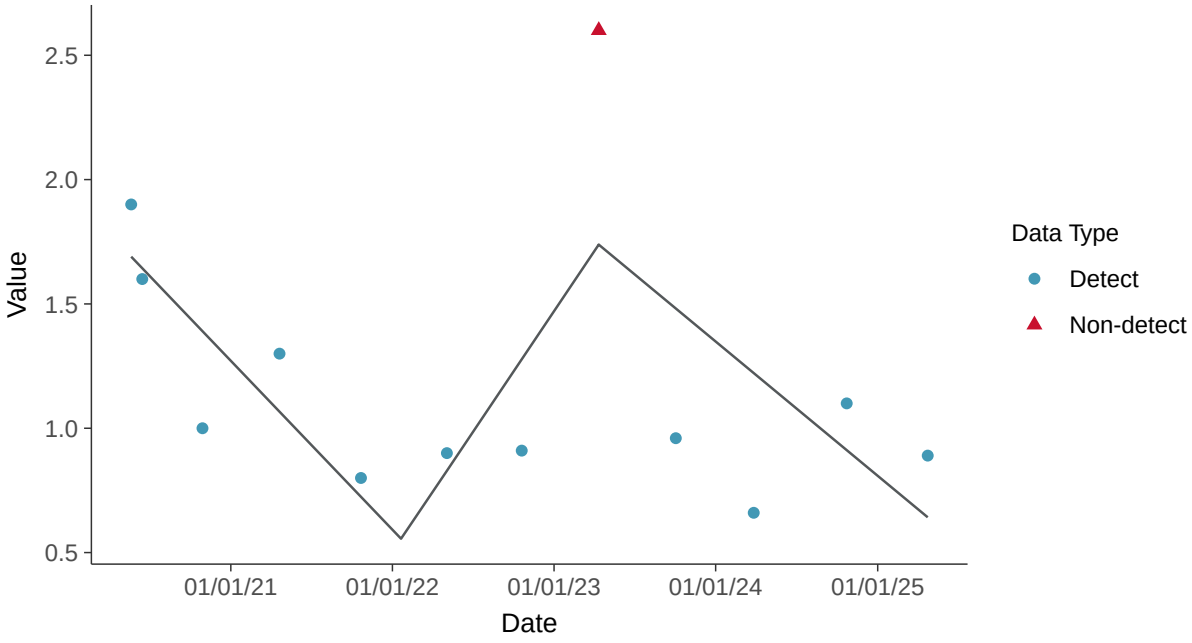
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15016R (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-15016R (ug/L)

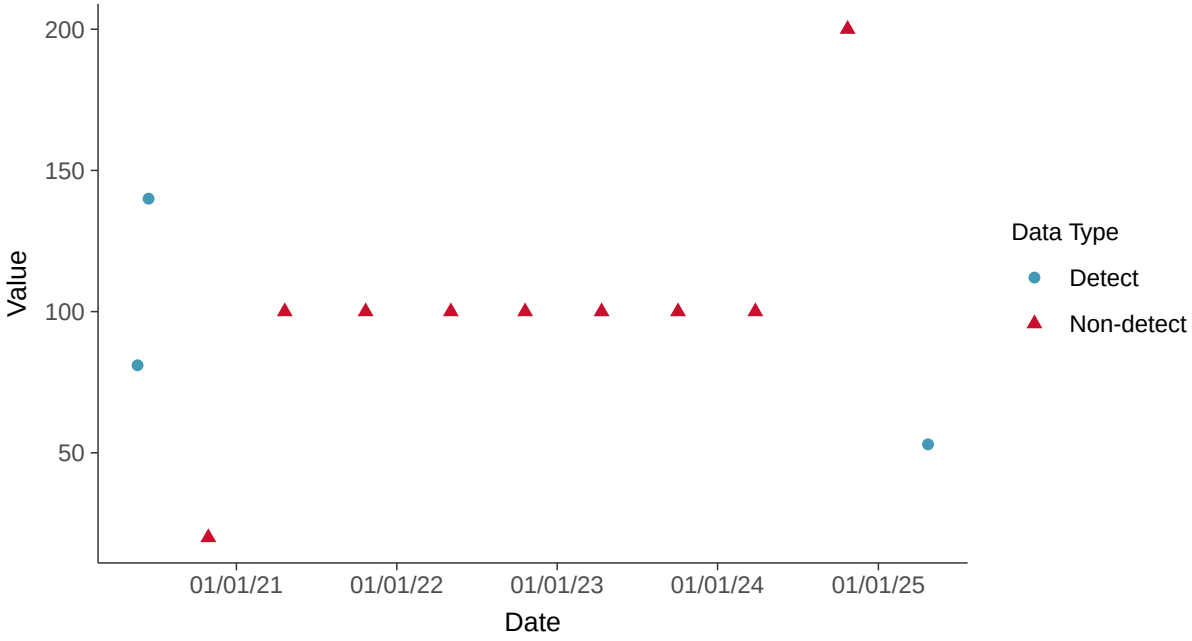


Appendix IV: Fluoride, MW-15016R

ID: 06_2_114

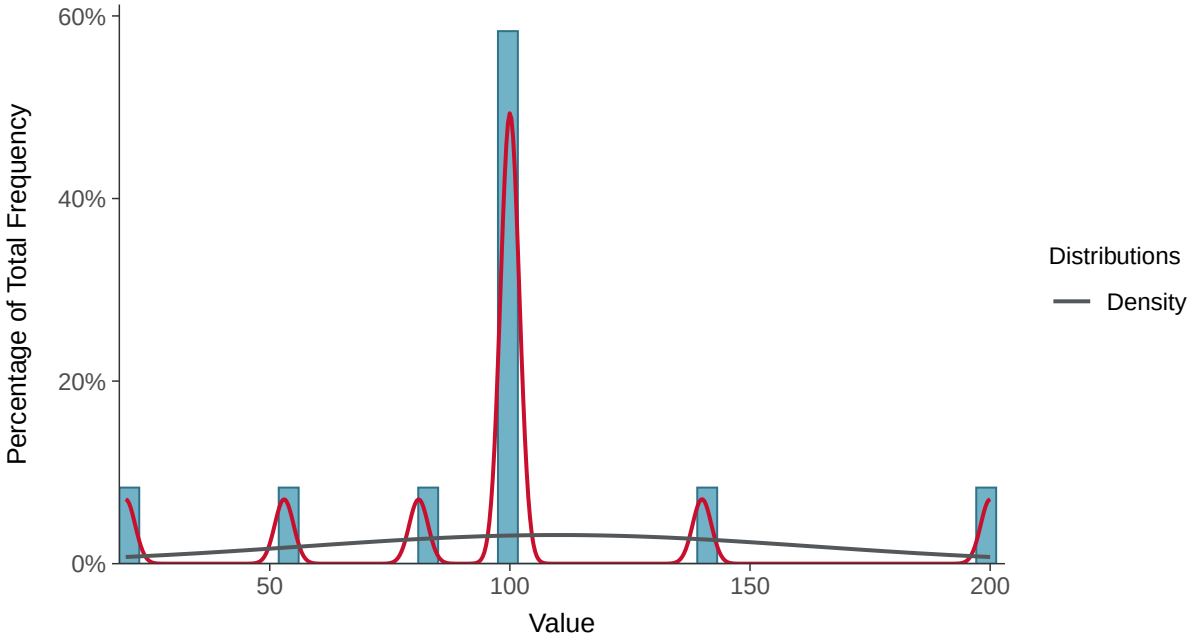
Scatter Plot

Fluoride, MW-15016R (ug/L)



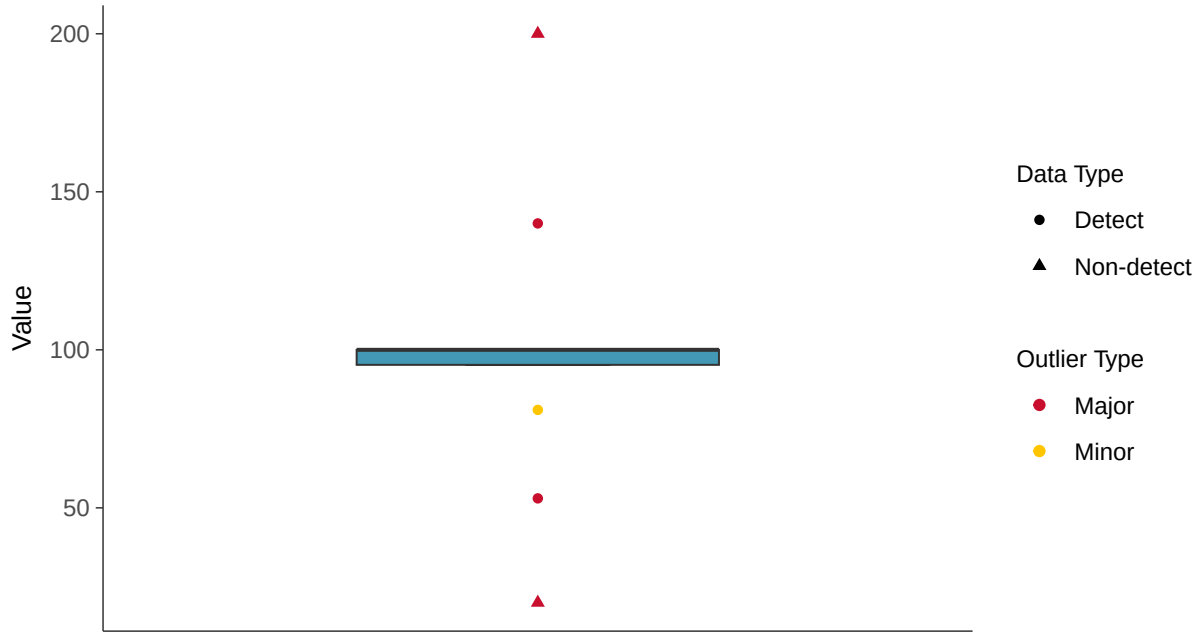
Histogram

Fluoride, MW-15016R (ug/L)



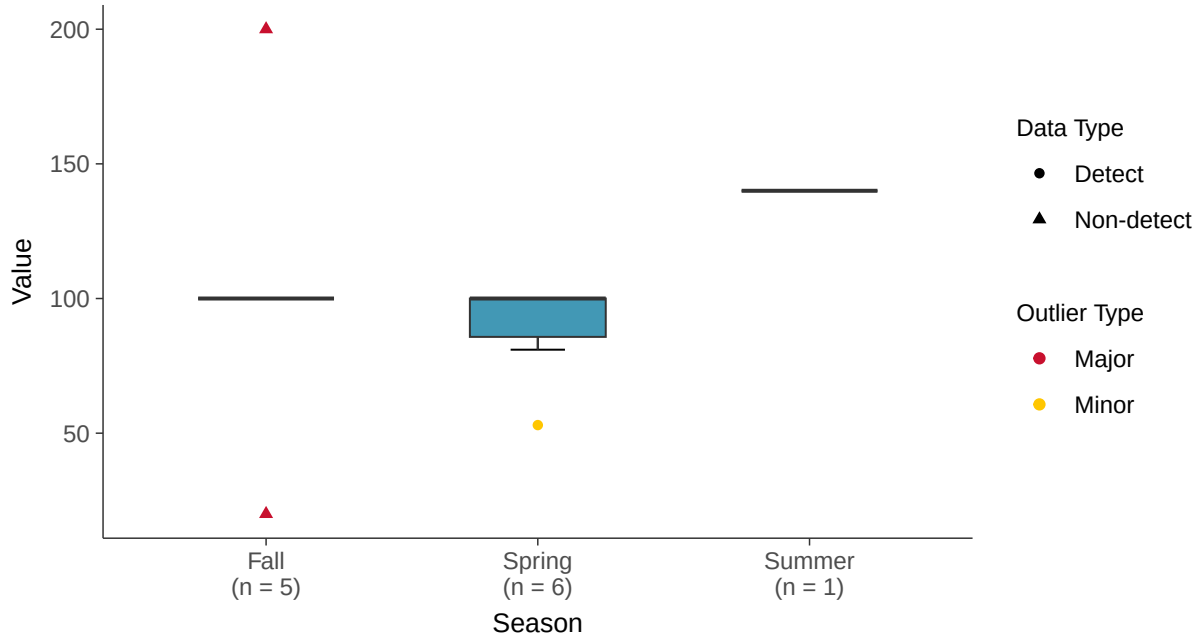
Boxplot

Fluoride, MW-15016R (ug/L)



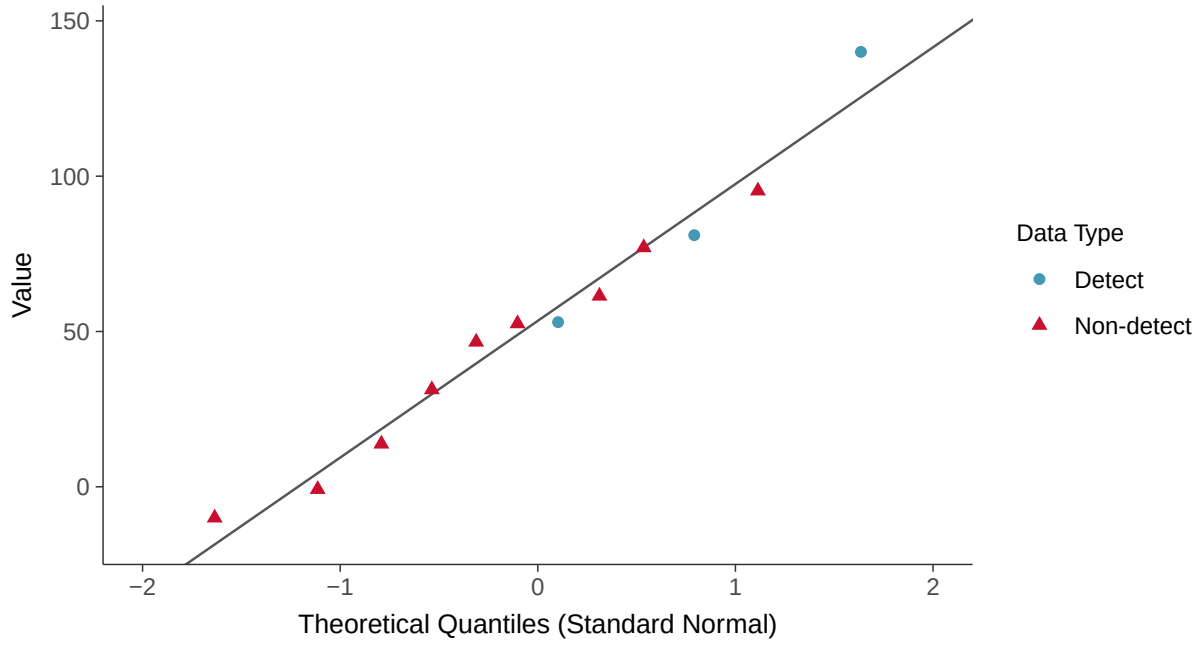
Boxplot by Season

Fluoride, MW-15016R (ug/L)



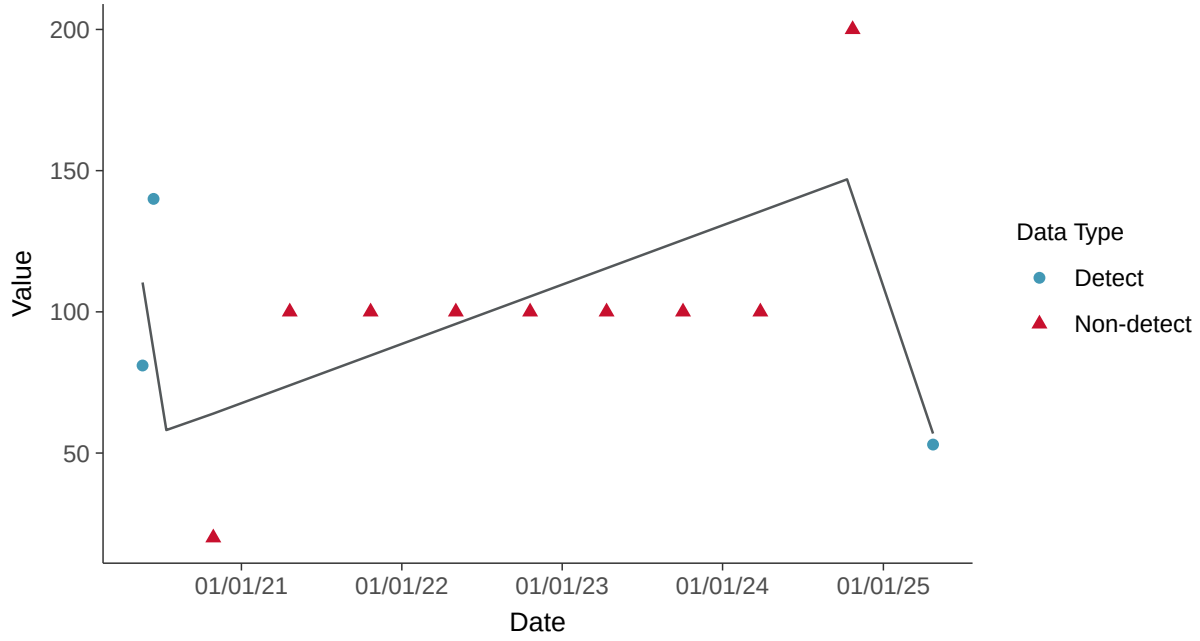
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15016R (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-15016R (ug/L)

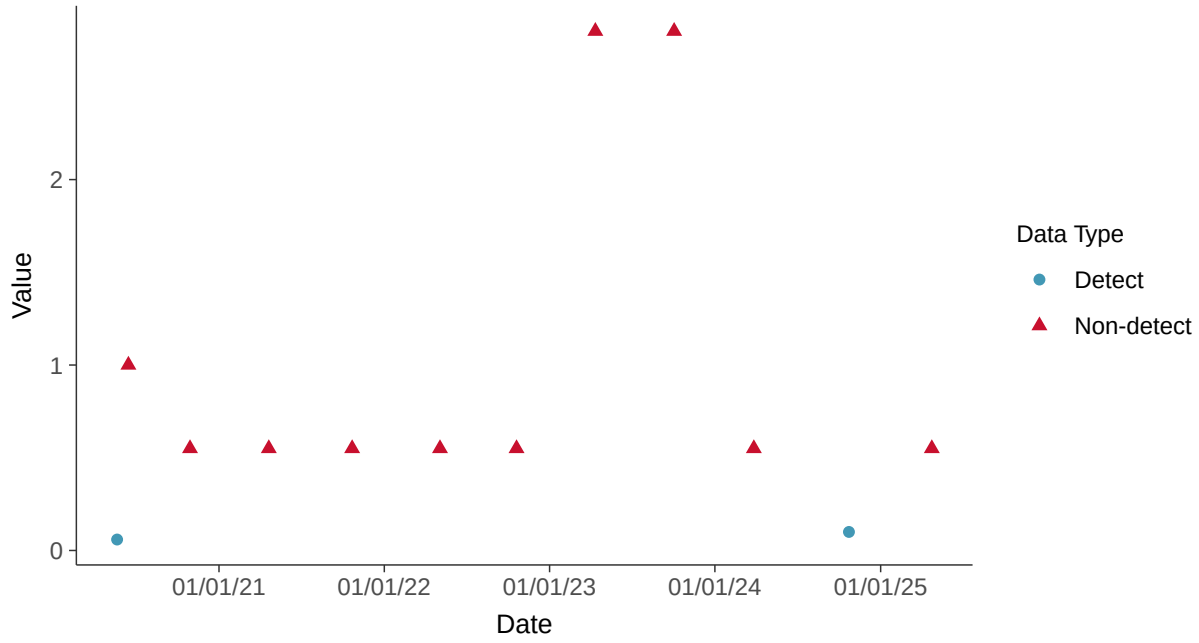


Appendix IV: Lead, MW-15016R

ID: 06_2_116

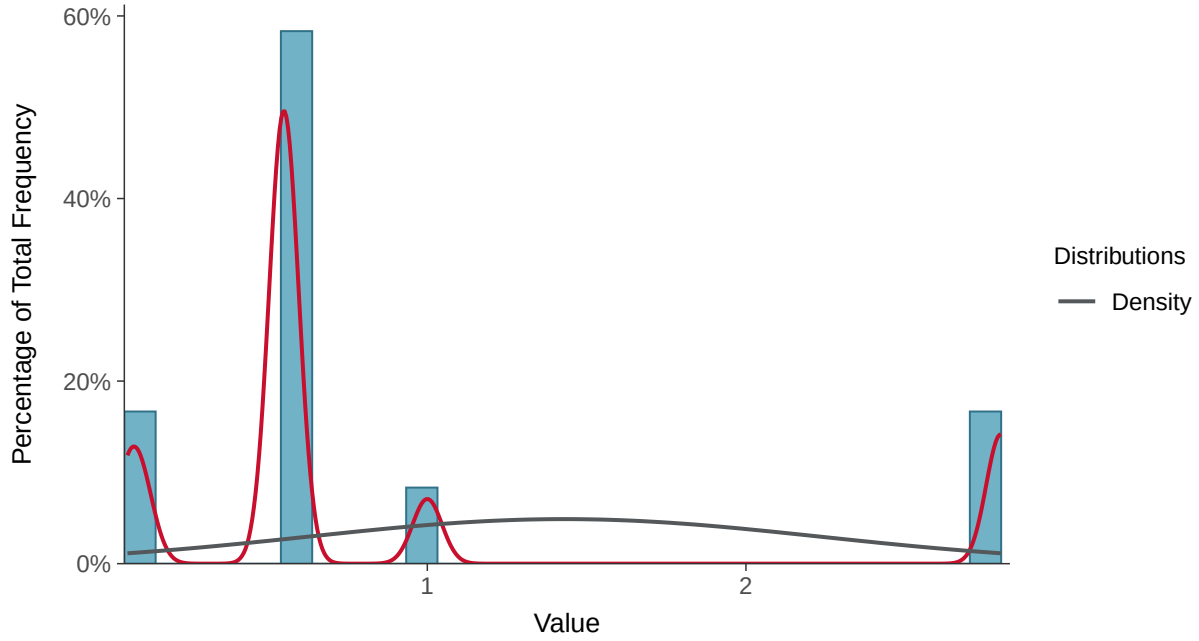
Scatter Plot

Lead, MW-15016R (ug/L)



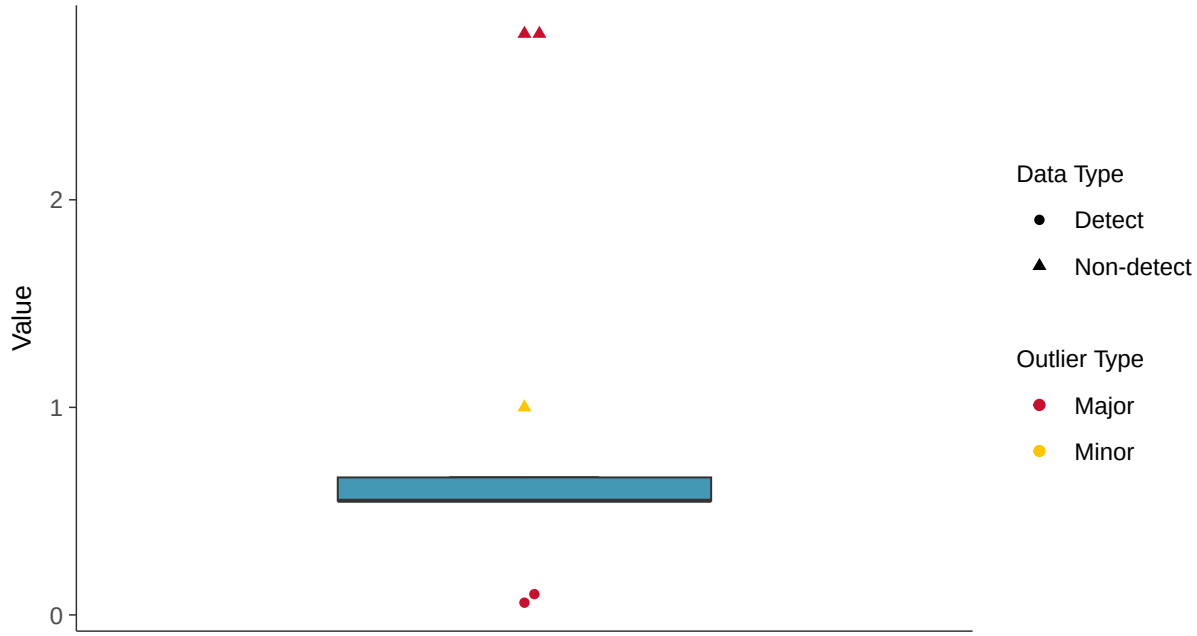
Histogram

Lead, MW-15016R (ug/L)



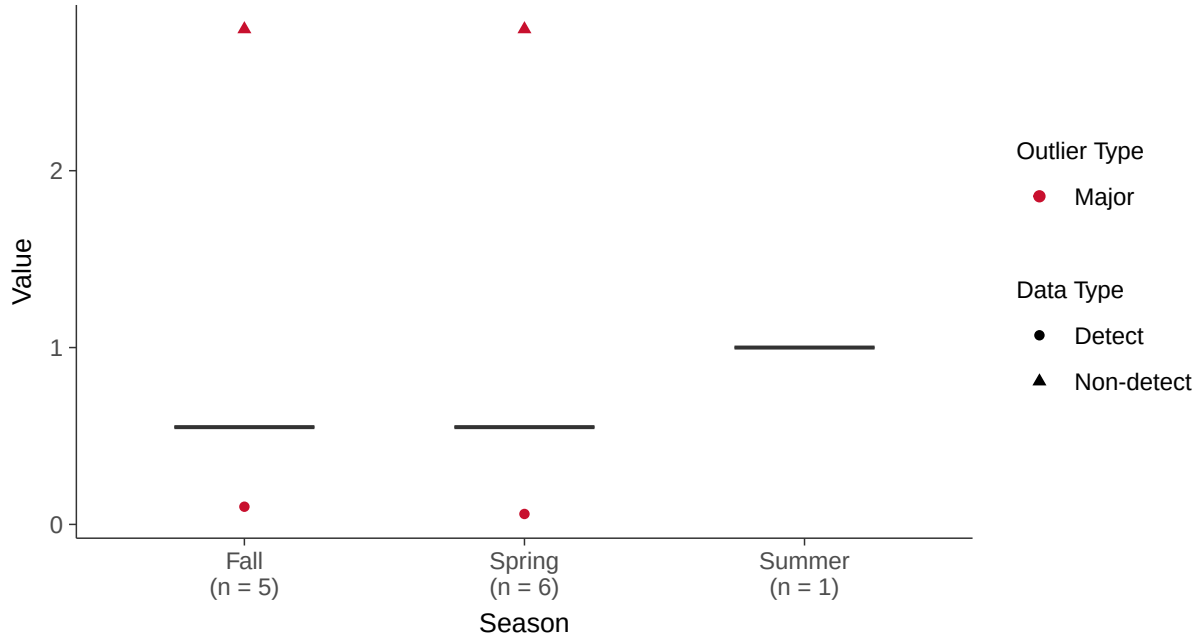
Boxplot

Lead, MW-15016R (ug/L)



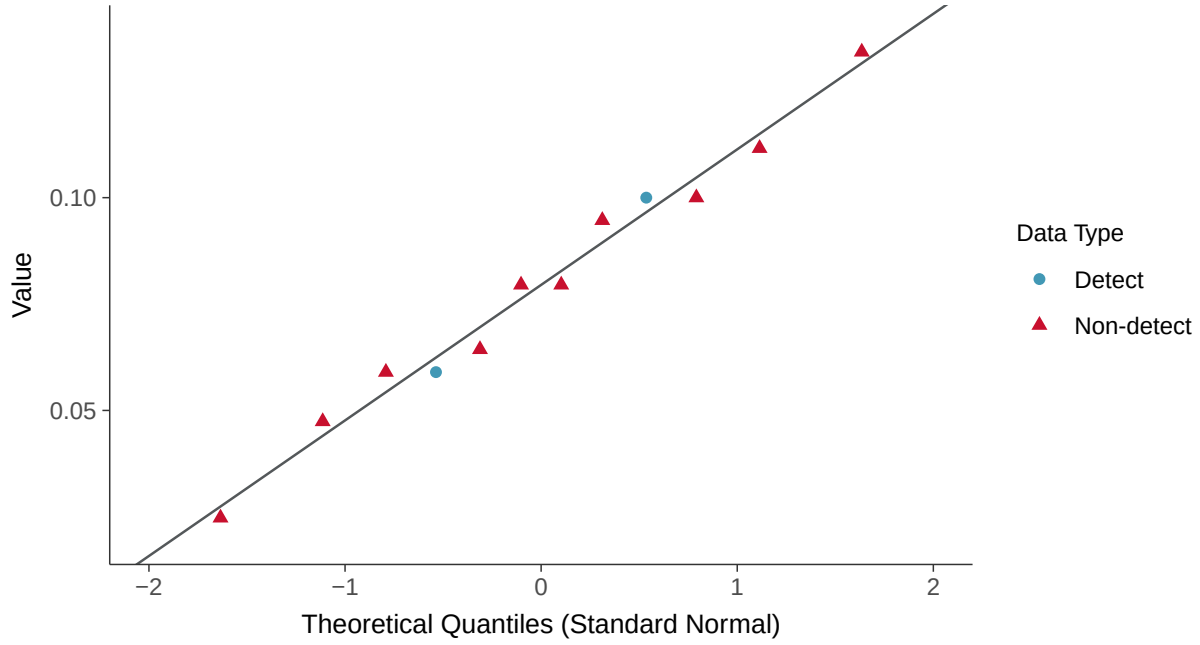
Boxplot by Season

Lead, MW-15016R (ug/L)



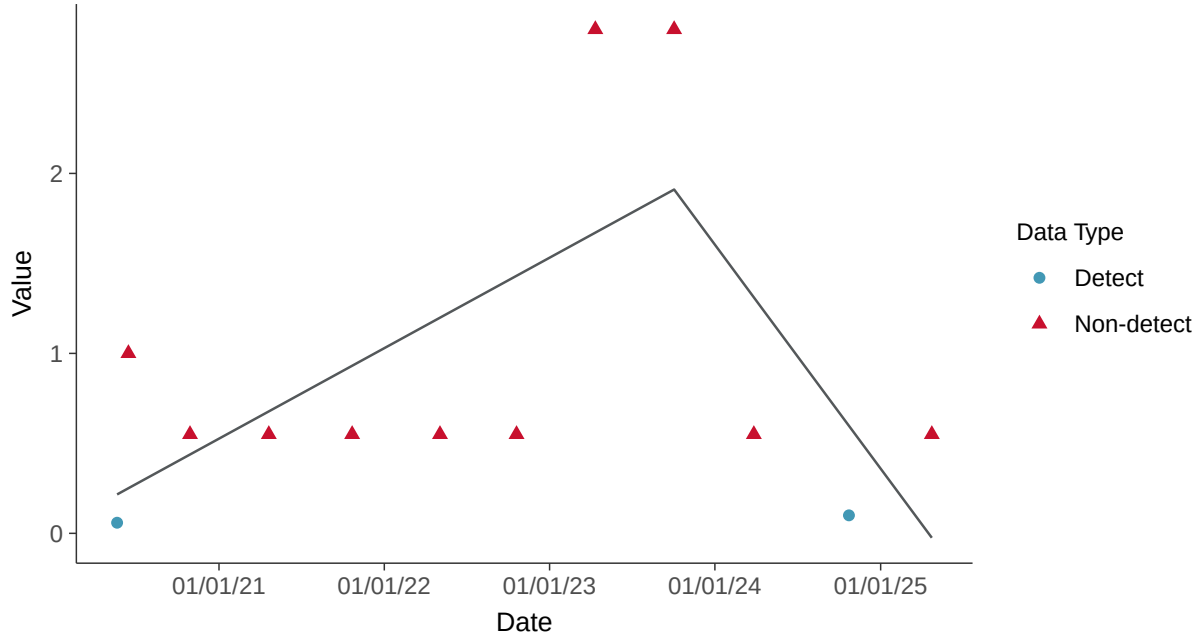
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-15016R (ug/L)



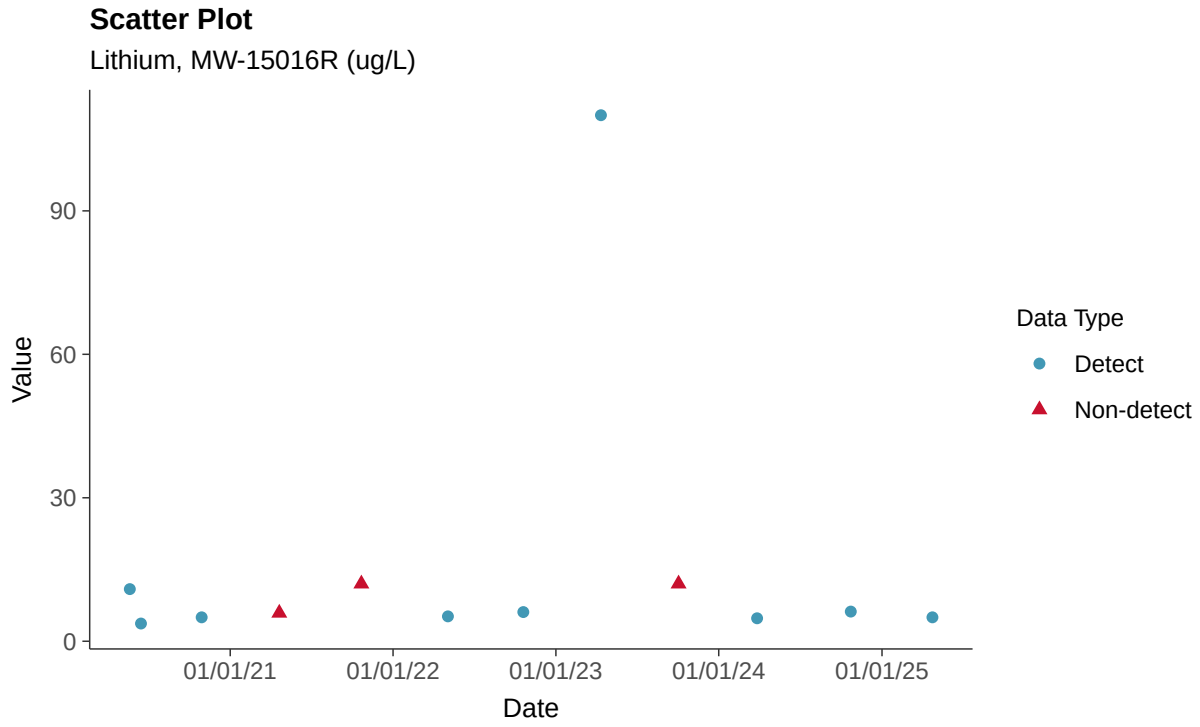
Trend Regression: Piecewise Linear-Linear

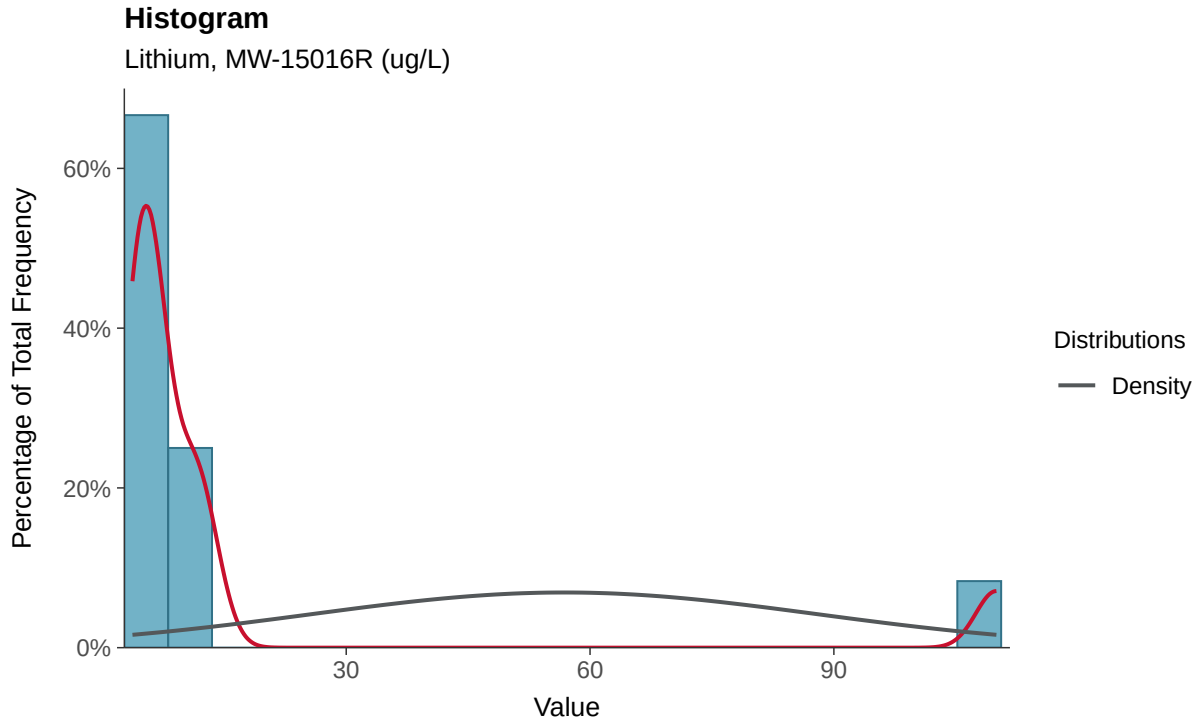
Lead, MW-15016R (ug/L)



Appendix IV: Lithium, MW-15016R

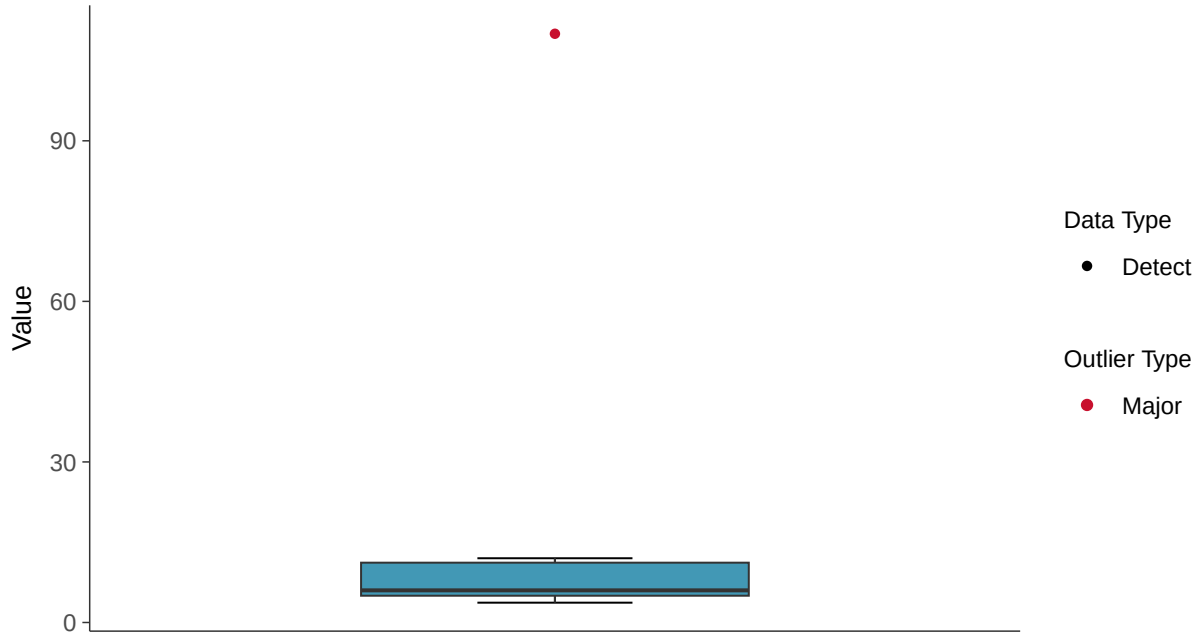
ID: 06_2_117





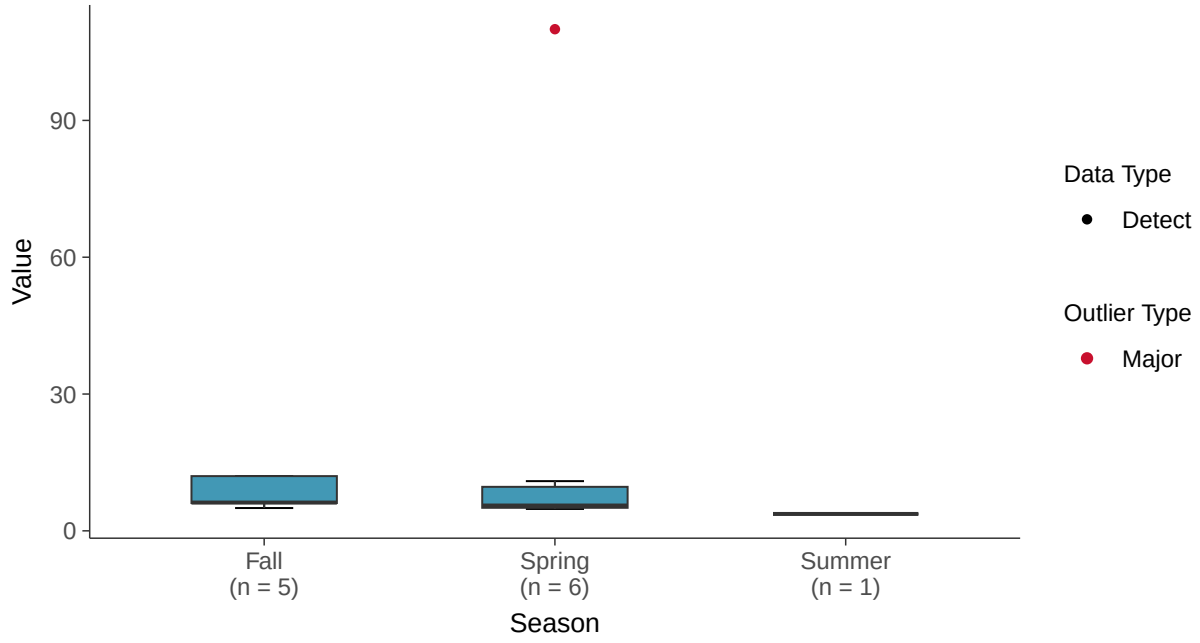
Boxplot

Lithium, MW-15016R (ug/L)



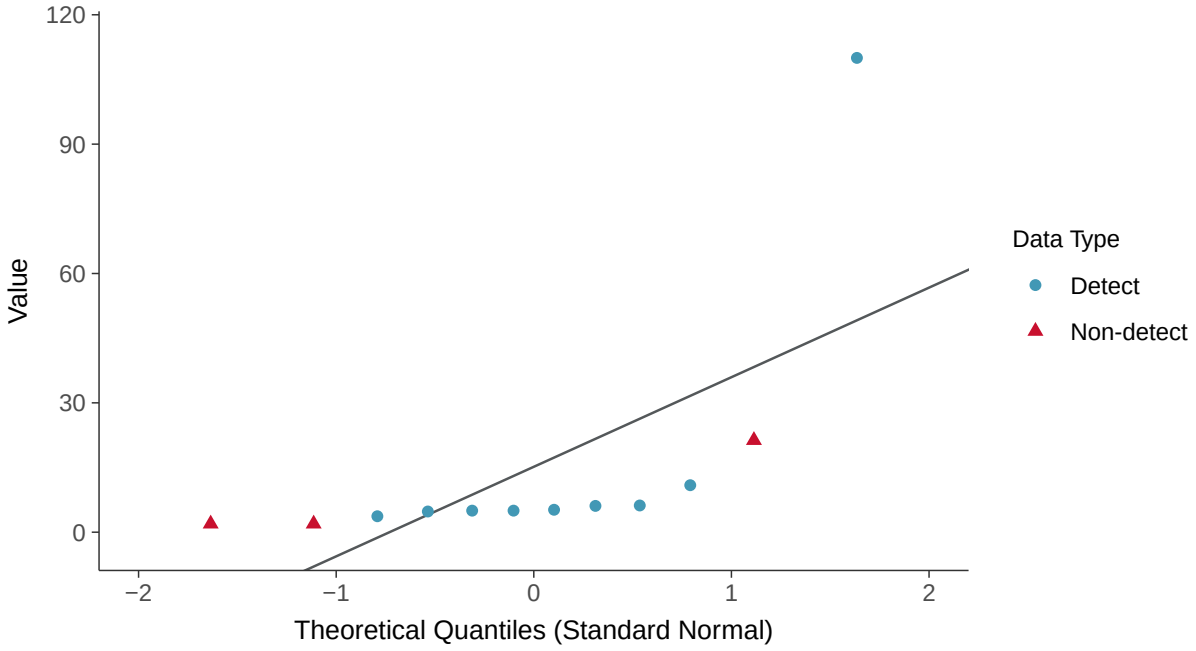
Boxplot by Season

Lithium, MW-15016R (ug/L)



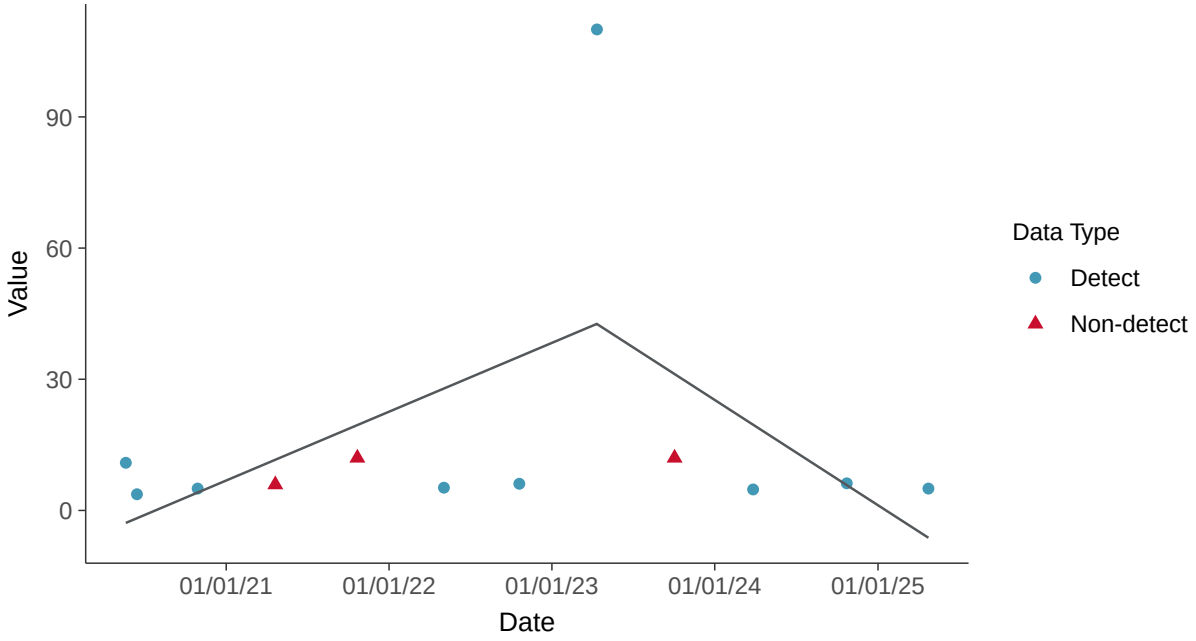
Normal Q-Q plot using ROS Imputed Estimates

Lithium, MW-15016R (ug/L)



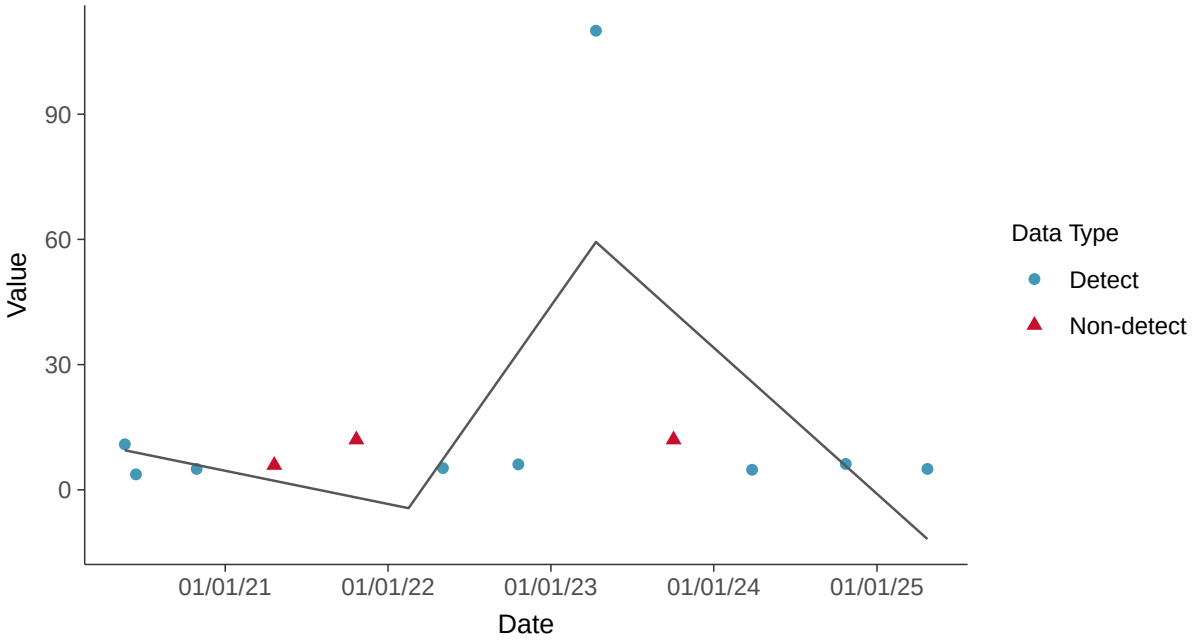
Trend Regression: Piecewise Linear-Linear

Lithium, MW-15016R (ug/L)



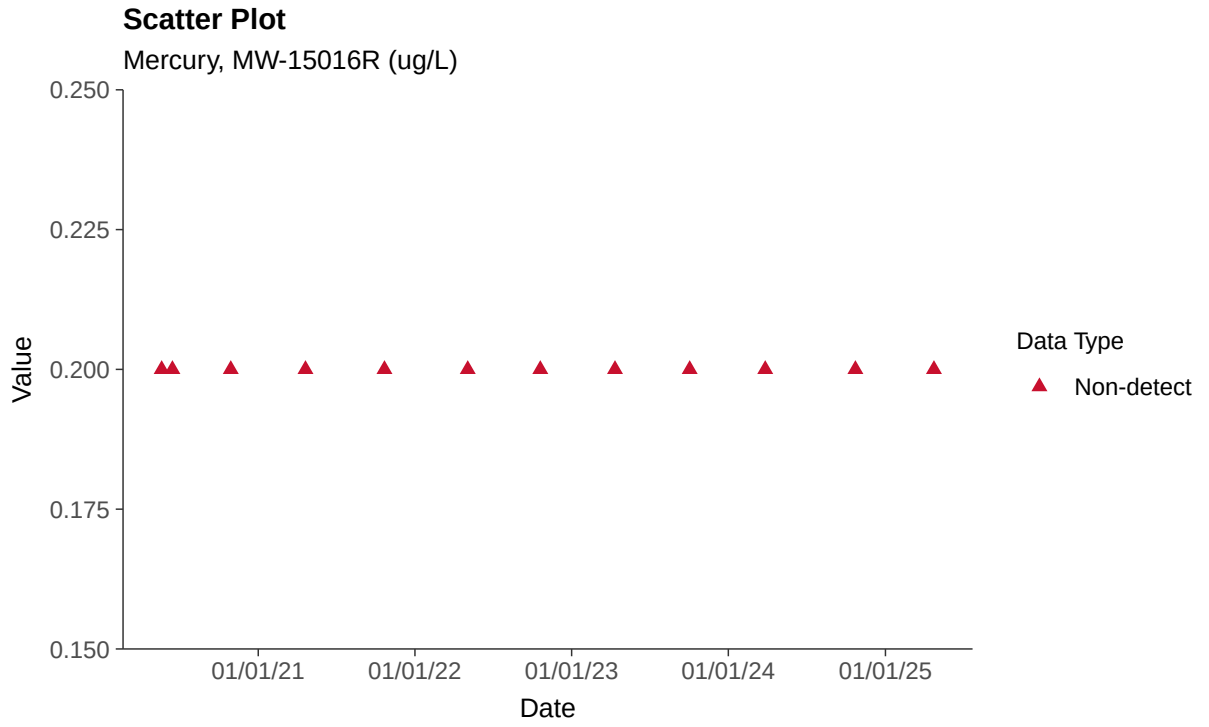
Trend Regression: Piecewise Linear-Linear-Linear

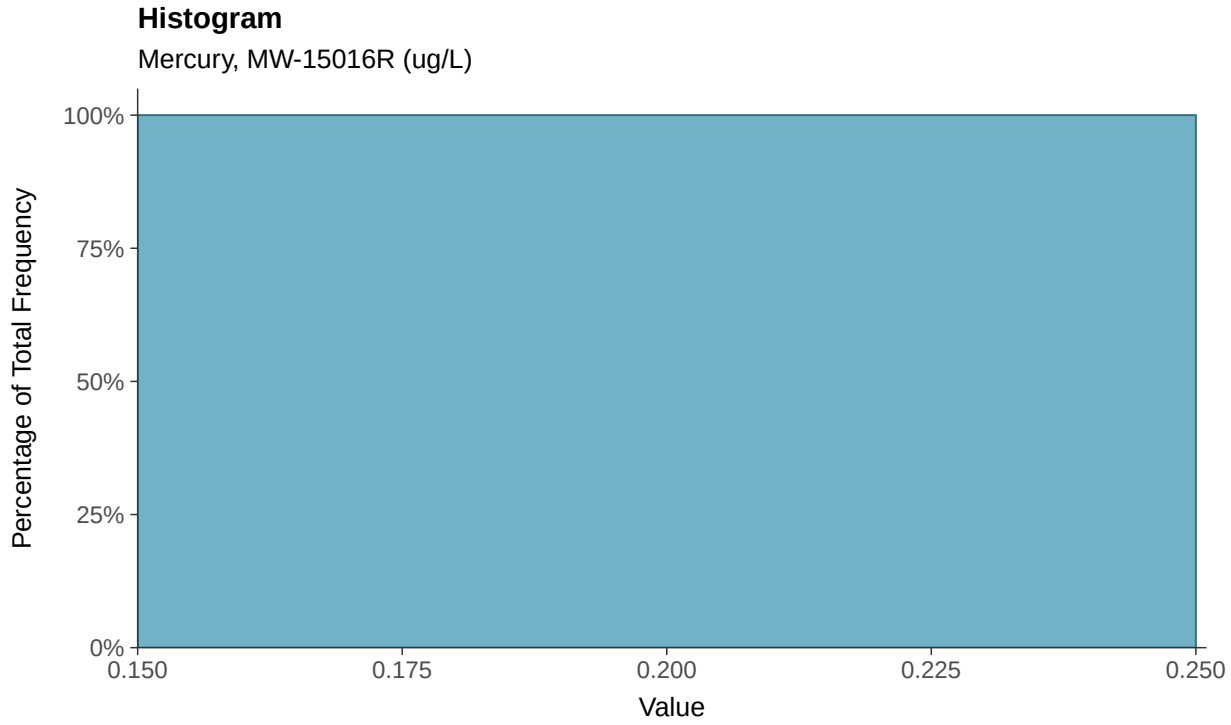
Lithium, MW-15016R (ug/L)



Appendix IV: Mercury, MW-15016R

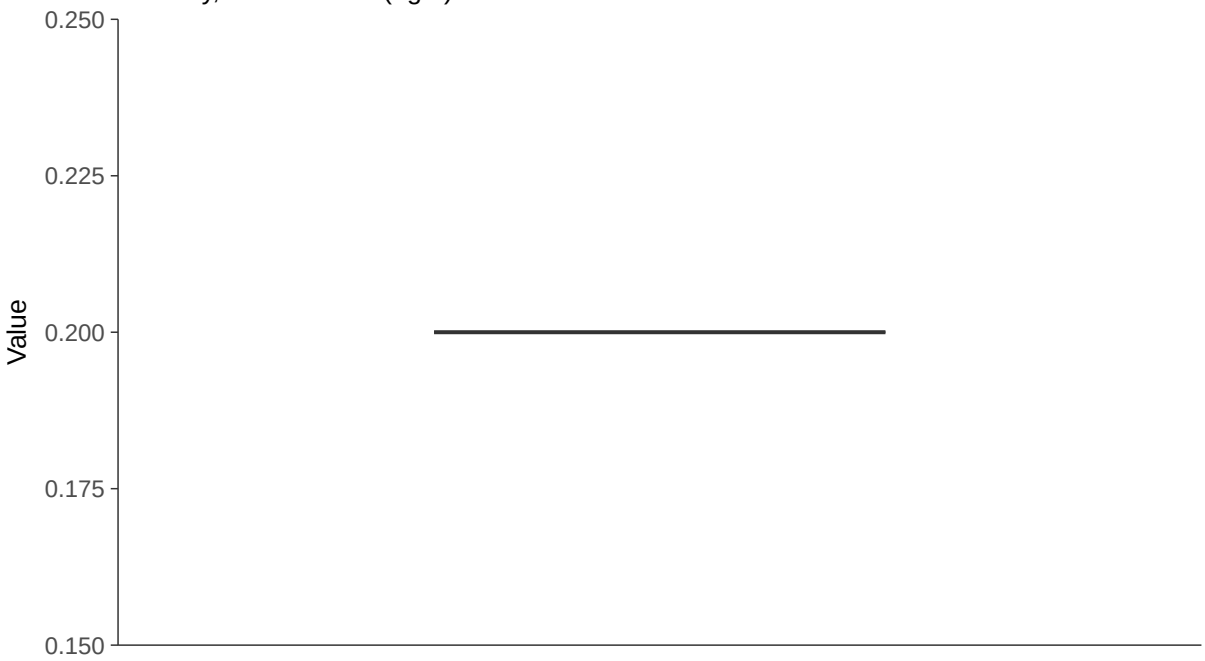
ID: 06_2_118





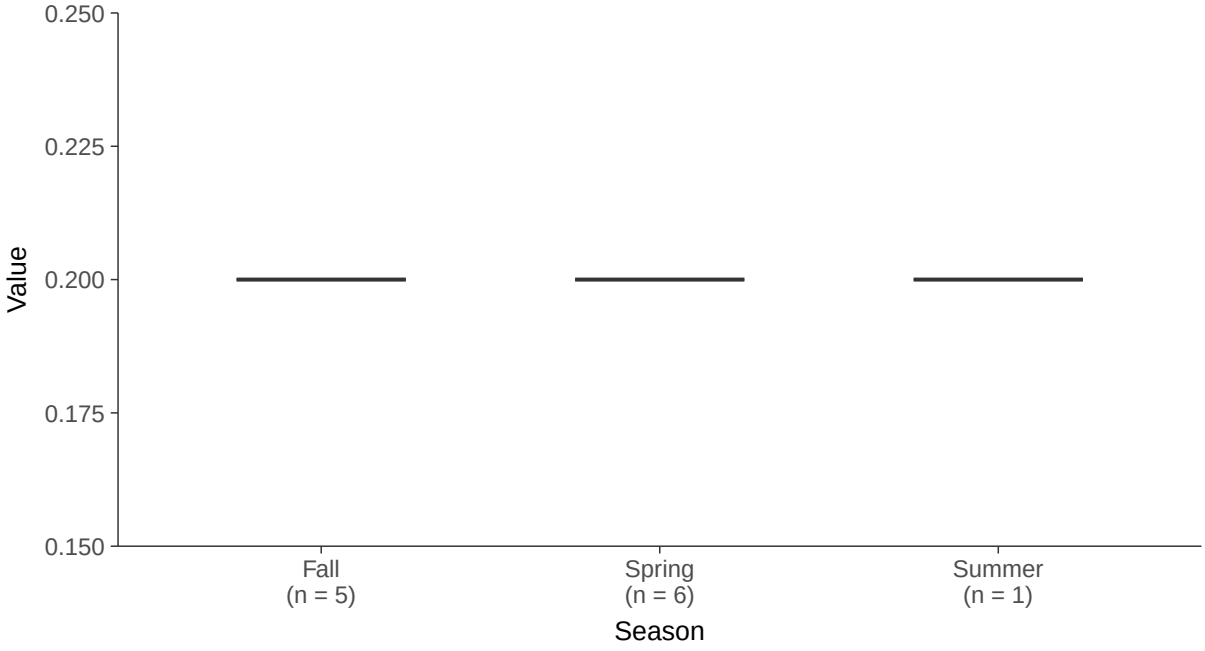
Boxplot

Mercury, MW-15016R (ug/L)



Boxplot by Season

Mercury, MW-15016R (ug/L)

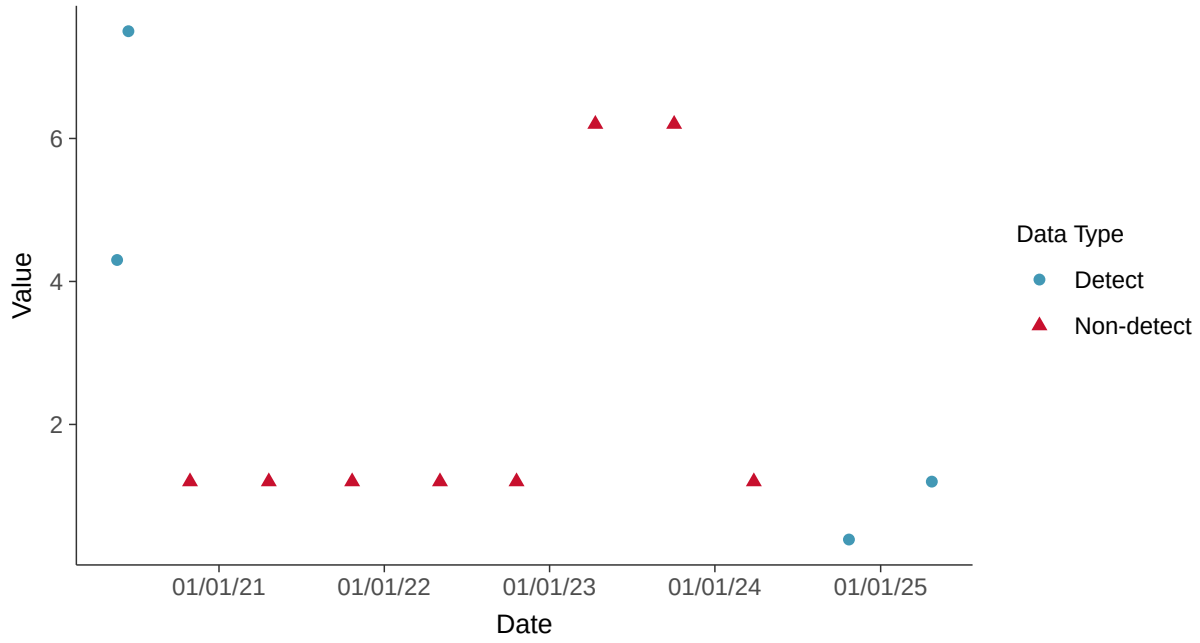


Appendix IV: Molybdenum, MW-15016R

ID: 06_2_119

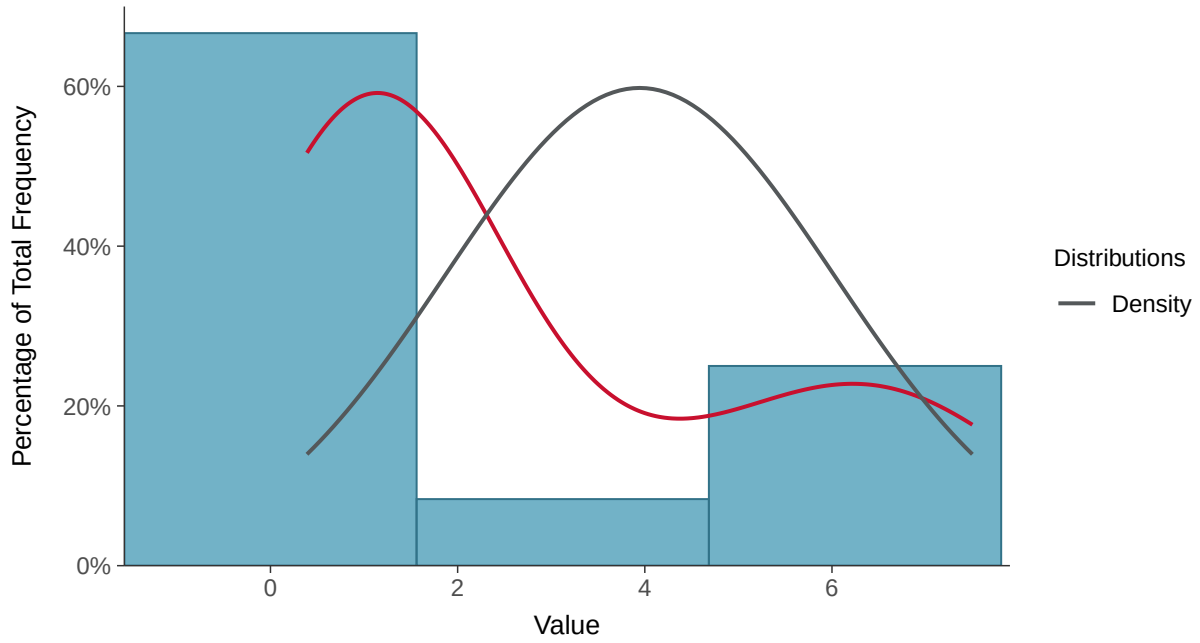
Scatter Plot

Molybdenum, MW-15016R (ug/L)



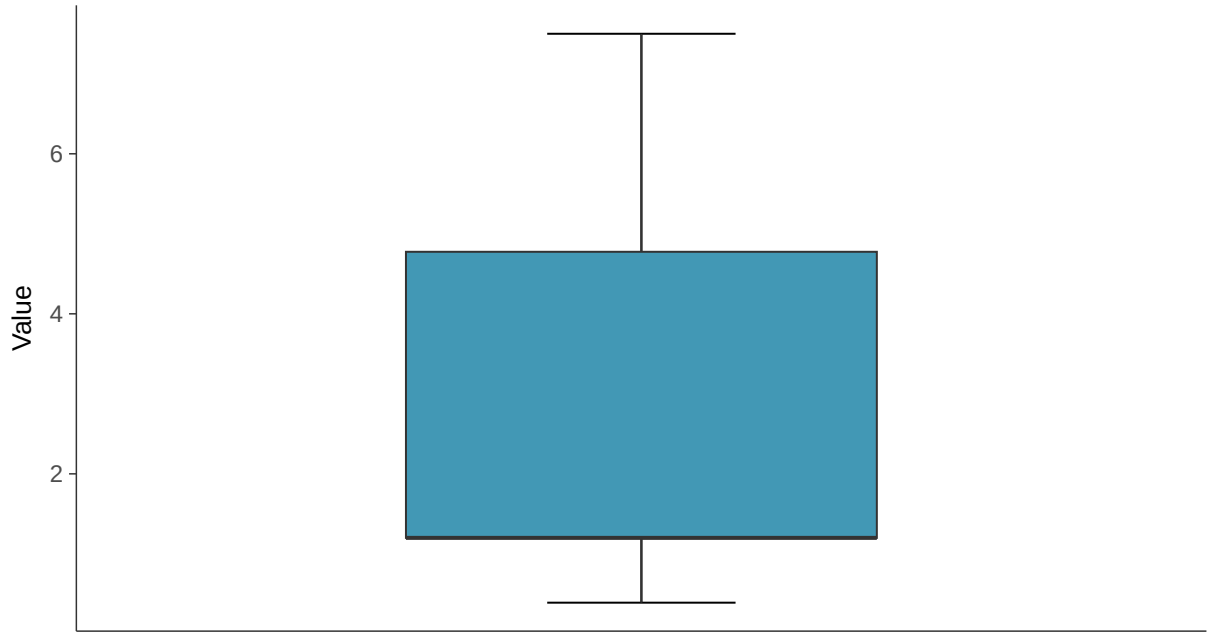
Histogram

Molybdenum, MW-15016R (ug/L)



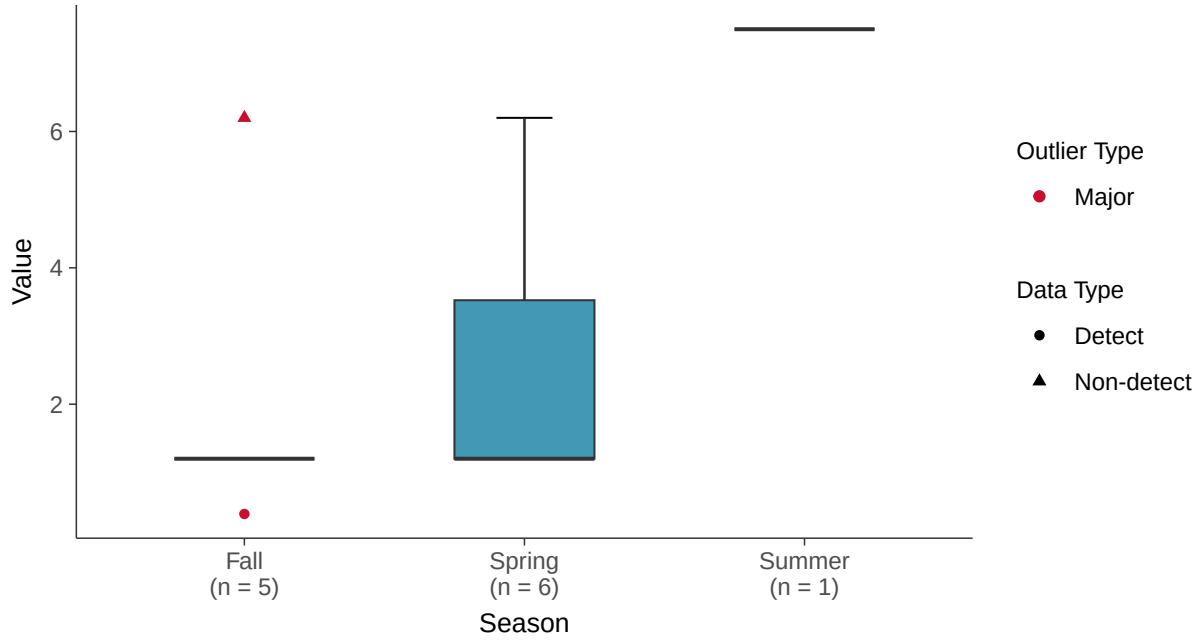
Boxplot

Molybdenum, MW-15016R (ug/L)



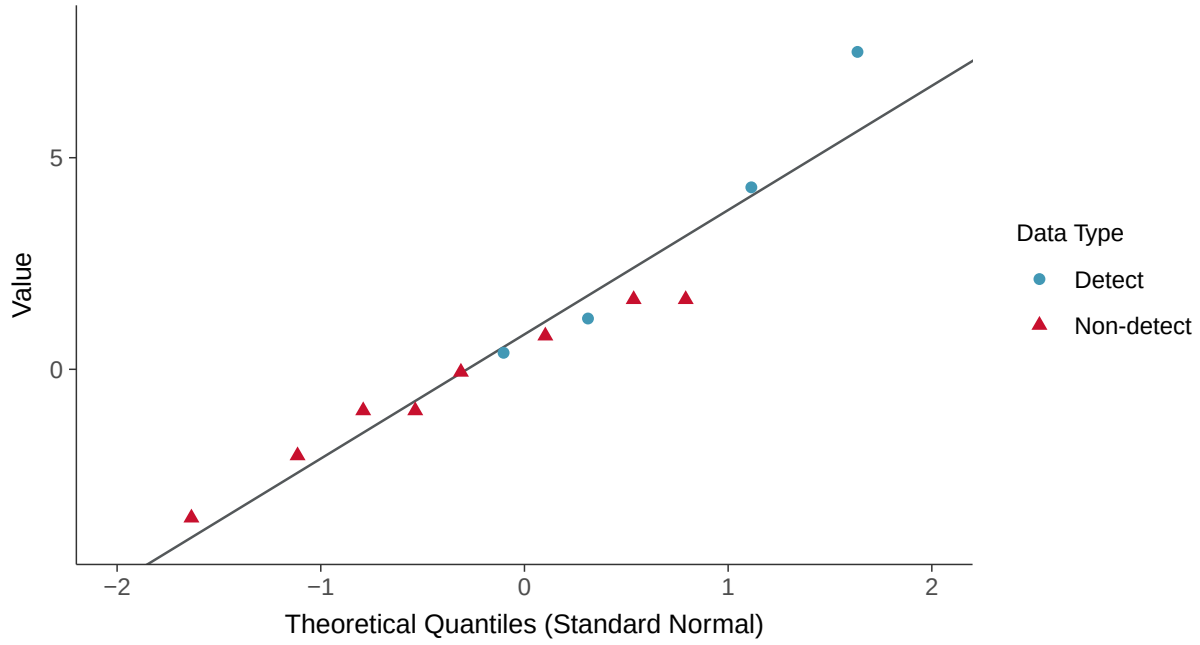
Boxplot by Season

Molybdenum, MW-15016R (ug/L)



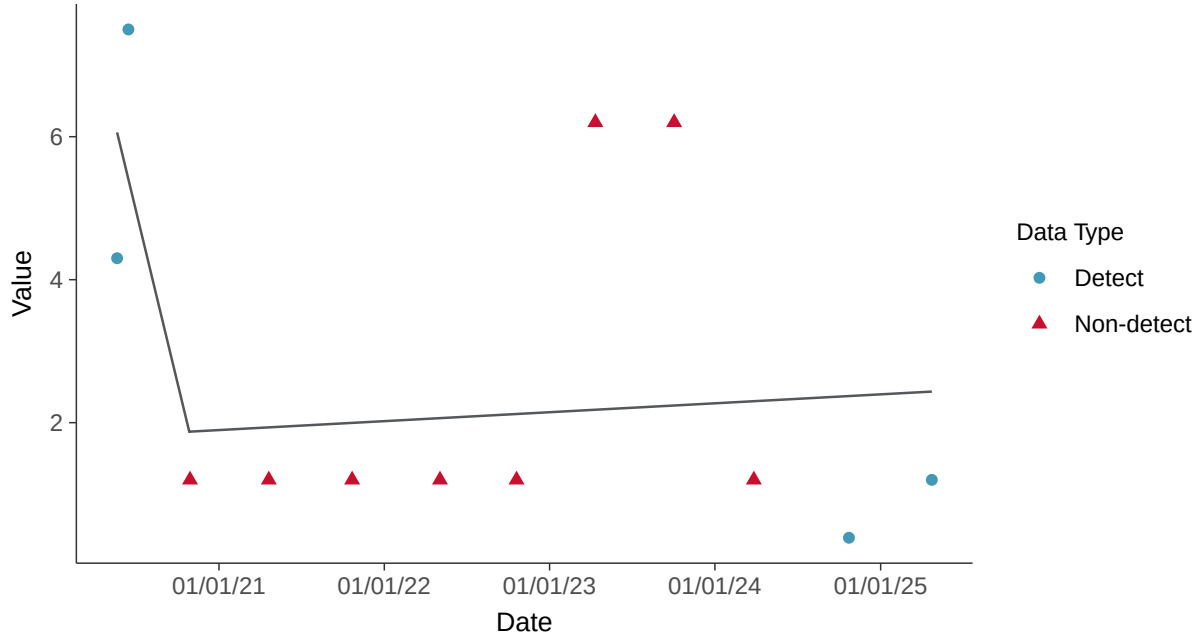
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15016R (ug/L)



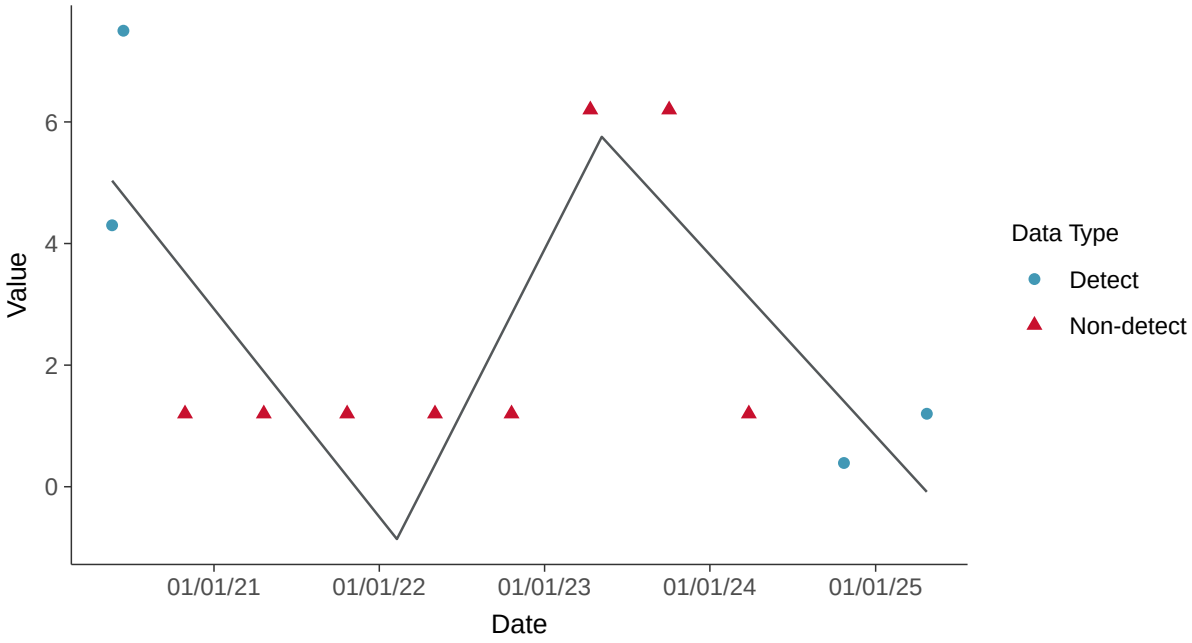
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-15016R (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-15016R (ug/L)

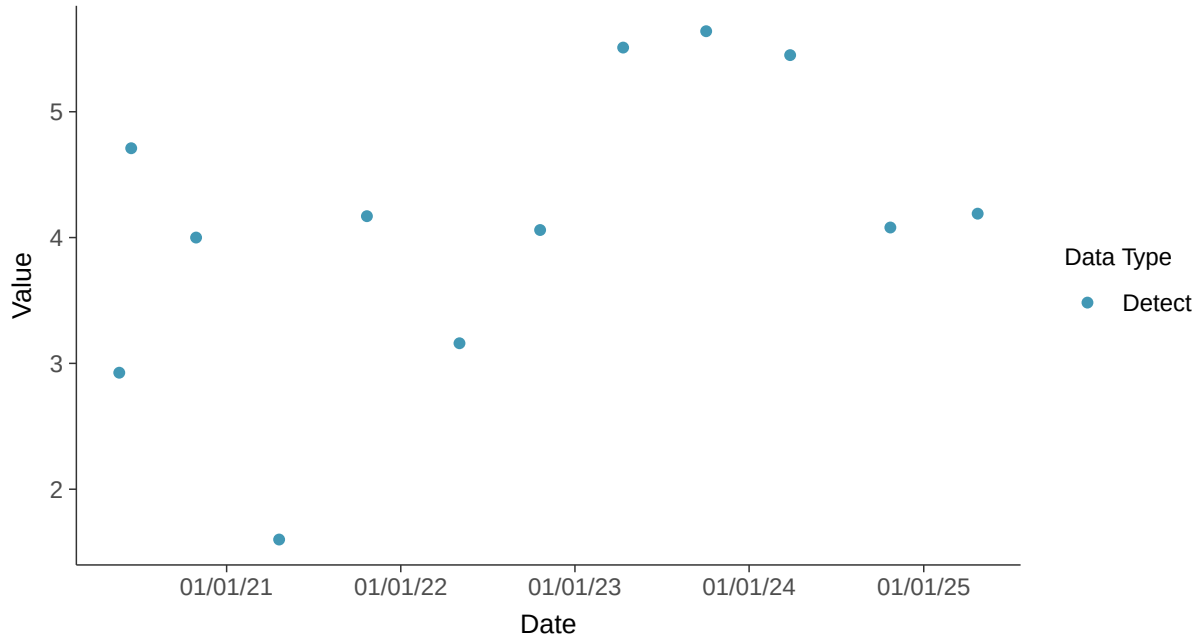


Appendix IV: Radium-226+228, MW-15016R

ID: 06_2_125

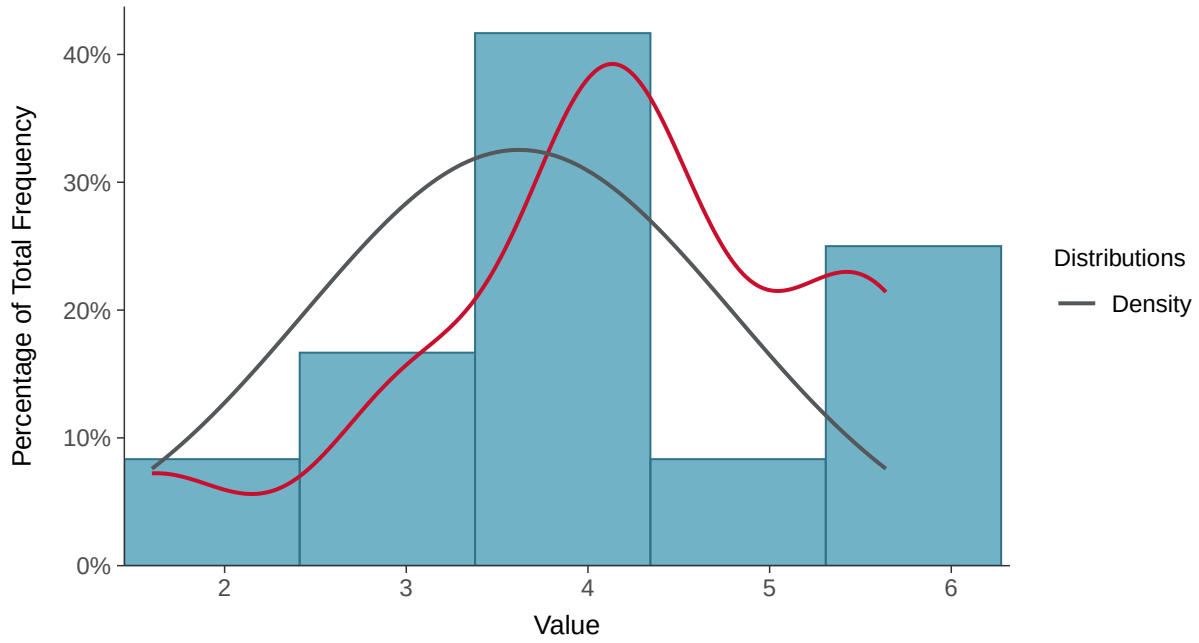
Scatter Plot

Radium-226+228, MW-15016R (pCi/L)



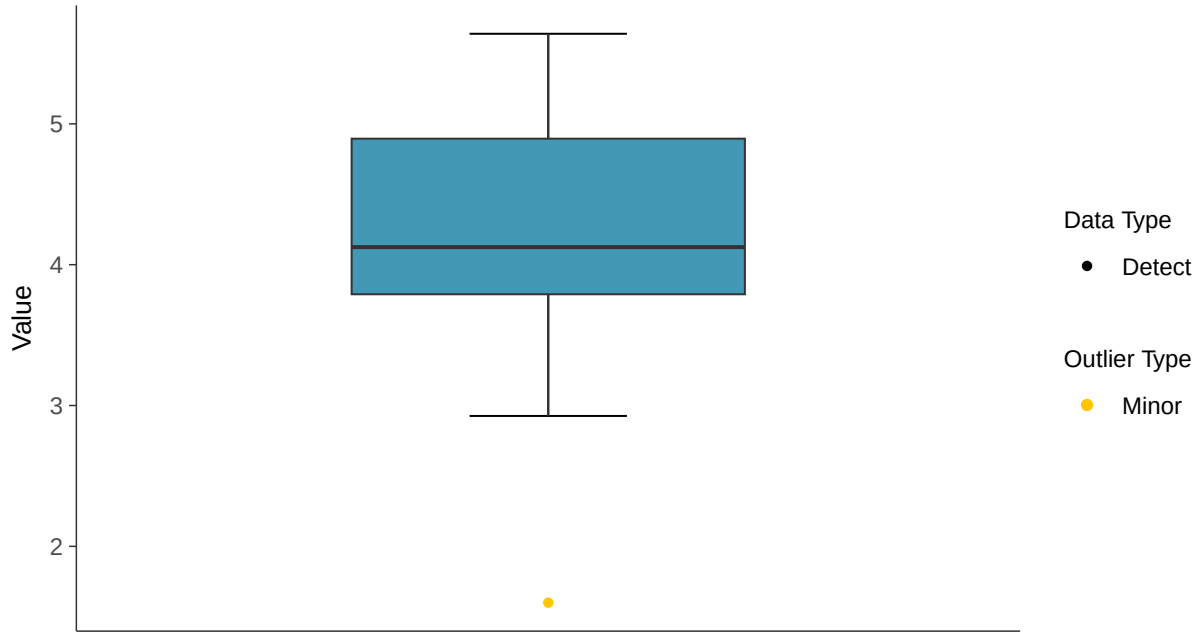
Histogram

Radium-226+228, MW-15016R (pCi/L)



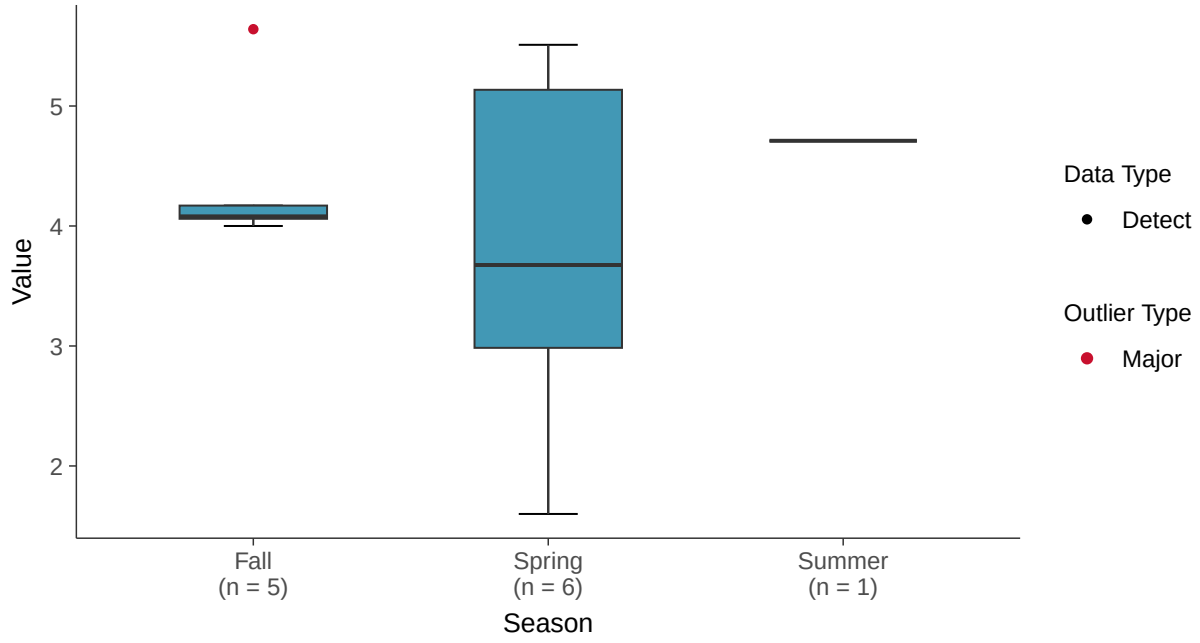
Boxplot

Radium-226+228, MW-15016R (pCi/L)



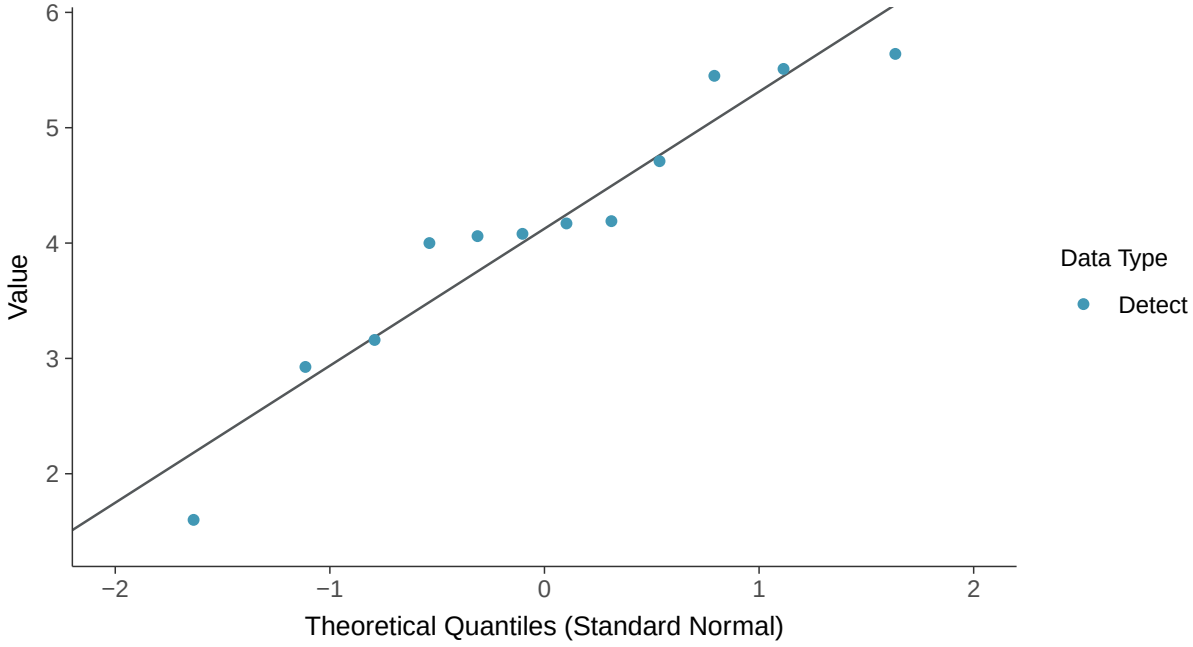
Boxplot by Season

Radium-226+228, MW-15016R (pCi/L)



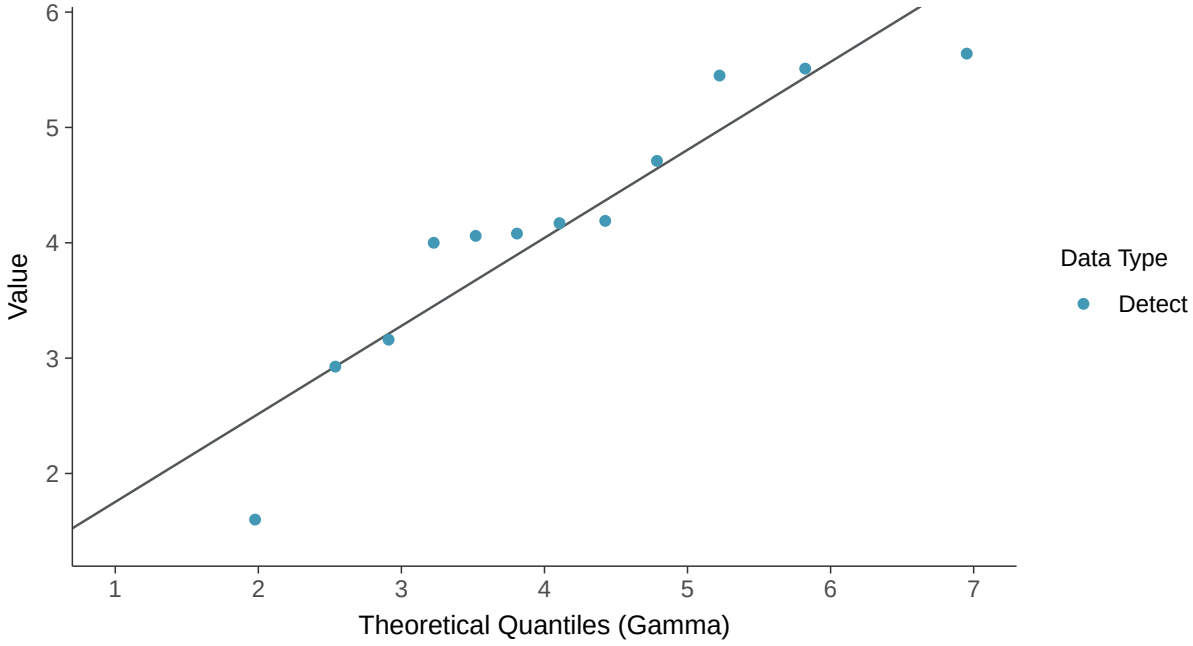
Normal Q-Q plot

Radium-226+228, MW-15016R (pCi/L)



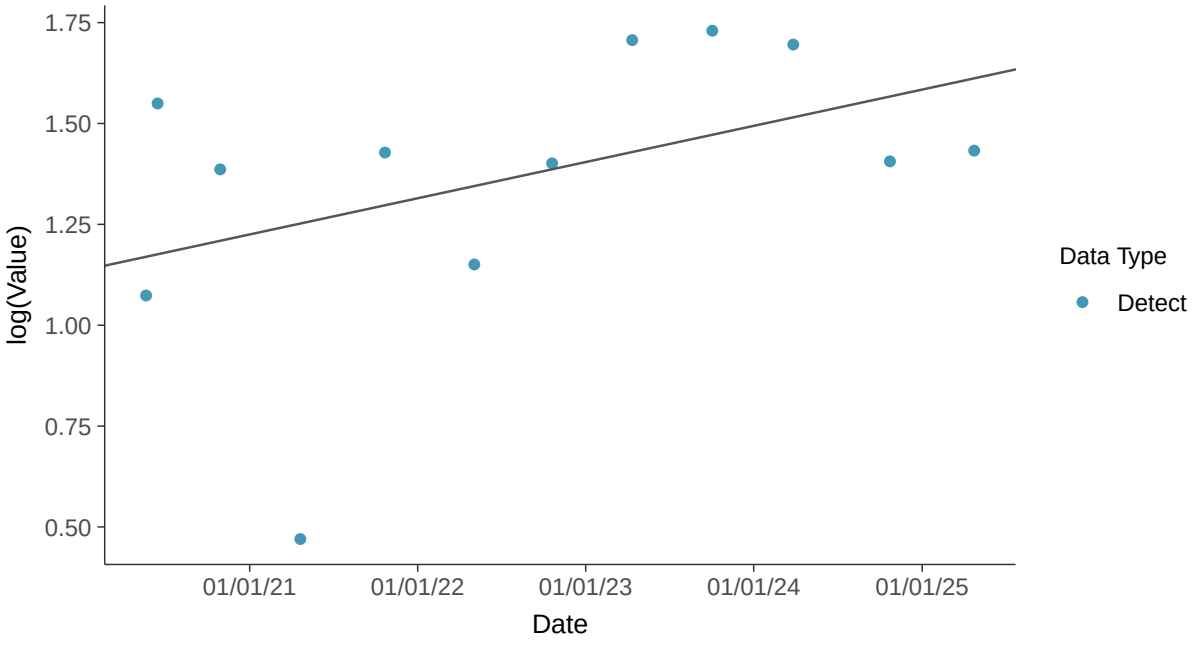
Gamma Q-Q plot

Radium-226+228, MW-15016R (pCi/L)



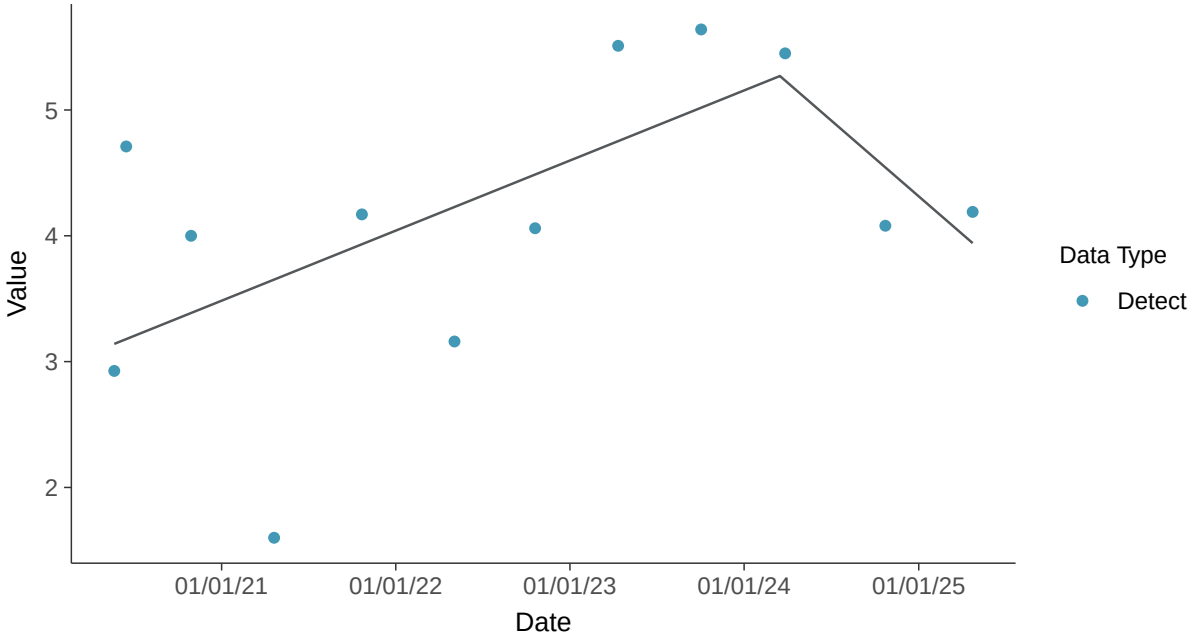
Trend Regression: Lognormal MLE

Radium-226+228, MW-15016R (pCi/L)



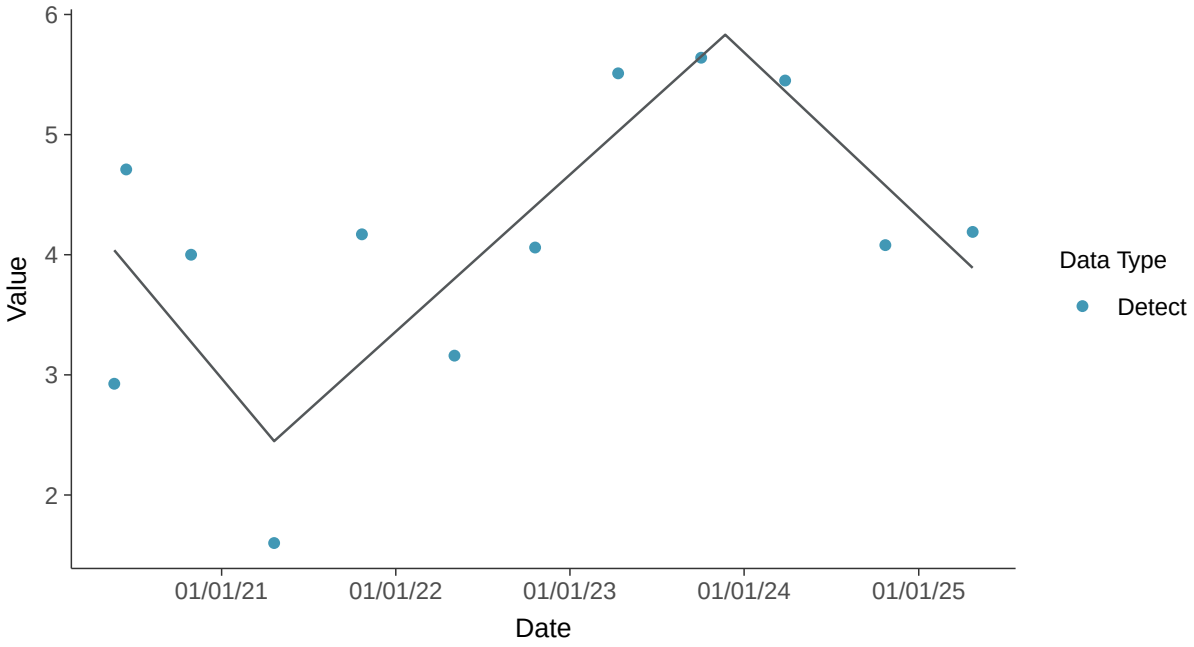
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-15016R (pCi/L)



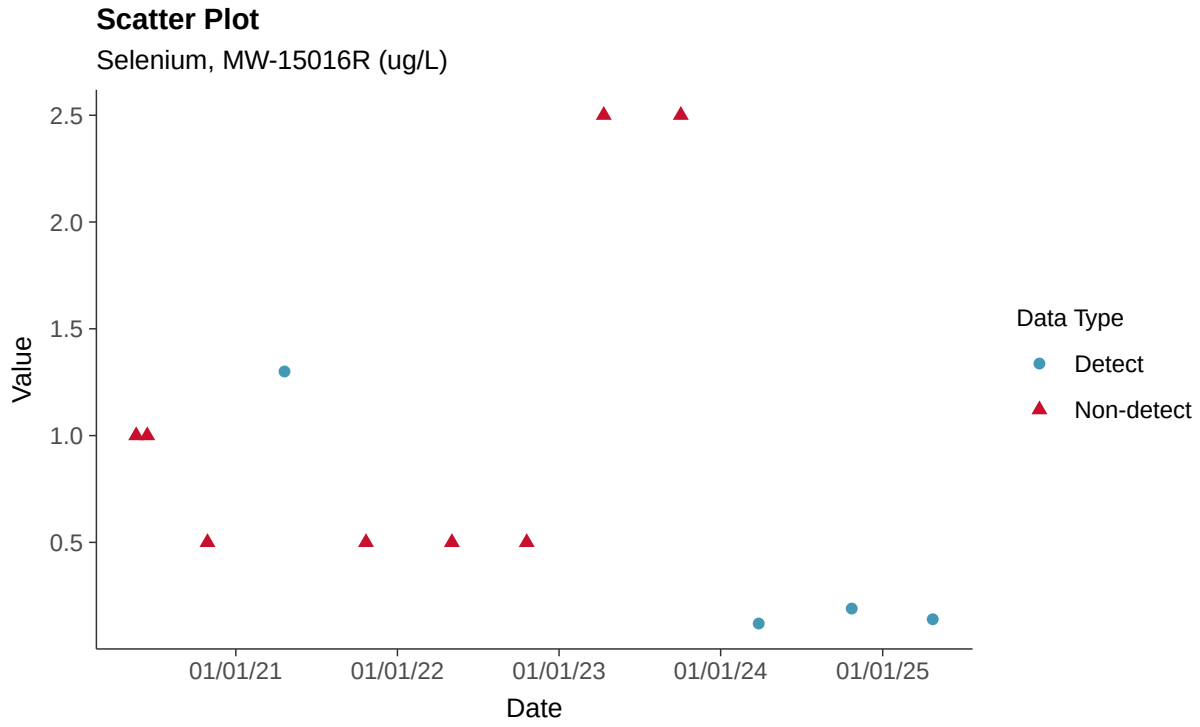
Trend Regression: Piecewise Linear-Linear-Linear

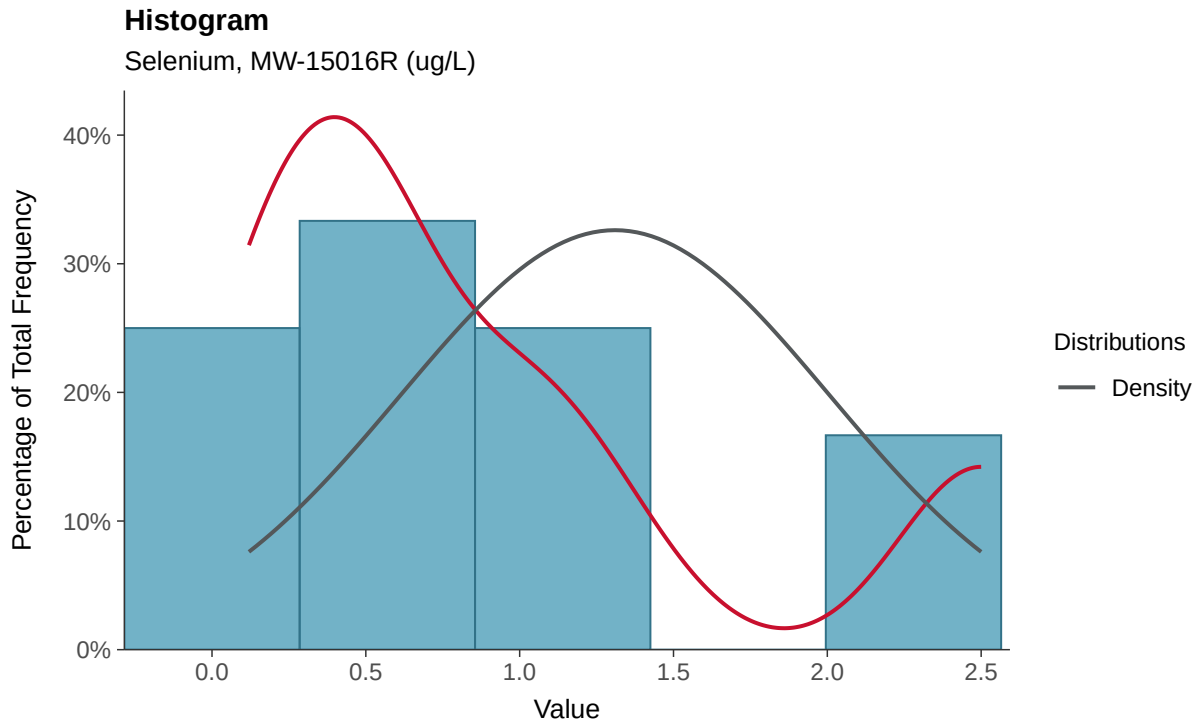
Radium-226+228, MW-15016R (pCi/L)



Appendix IV: Selenium, MW-15016R

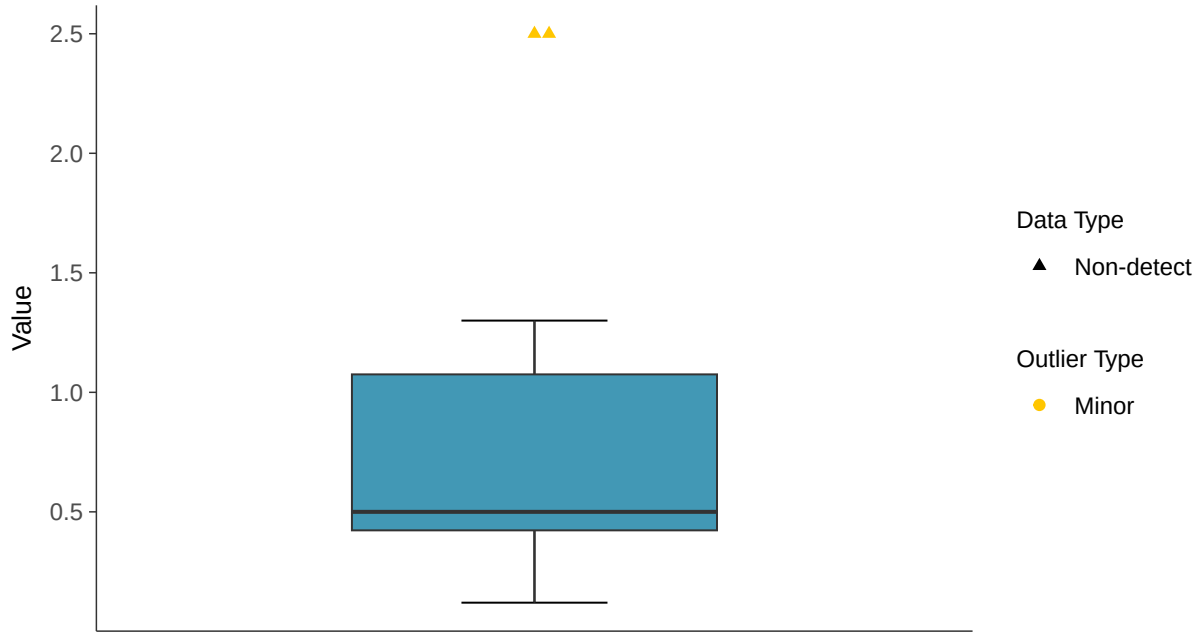
ID: 06_2_127





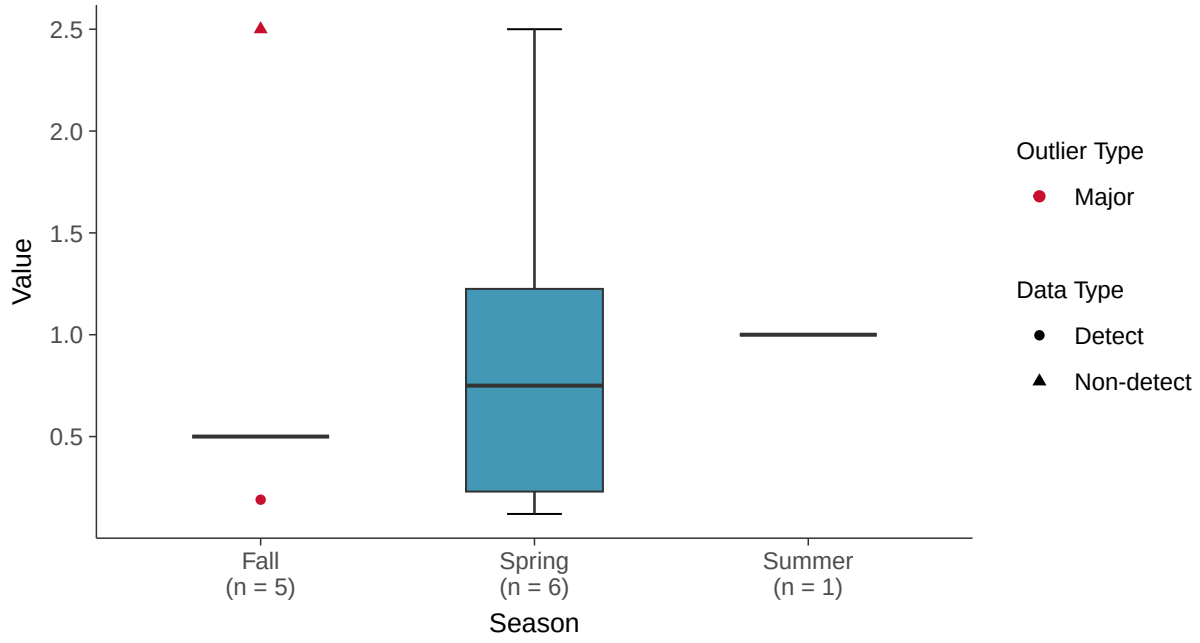
Boxplot

Selenium, MW-15016R (ug/L)



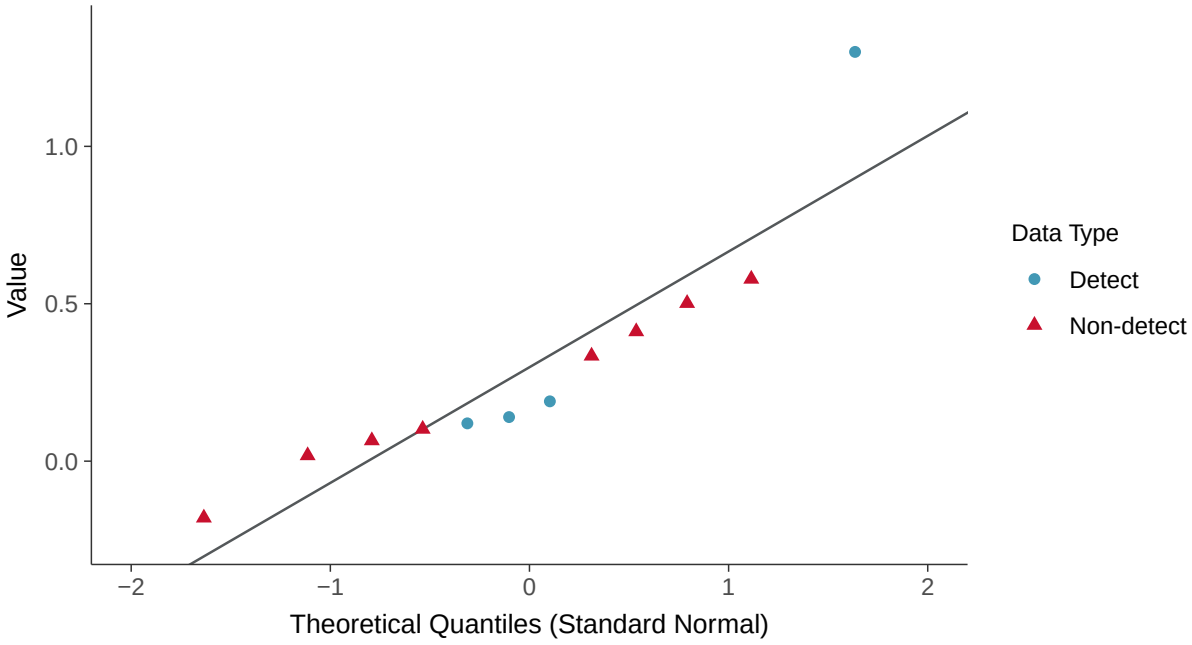
Boxplot by Season

Selenium, MW-15016R (ug/L)



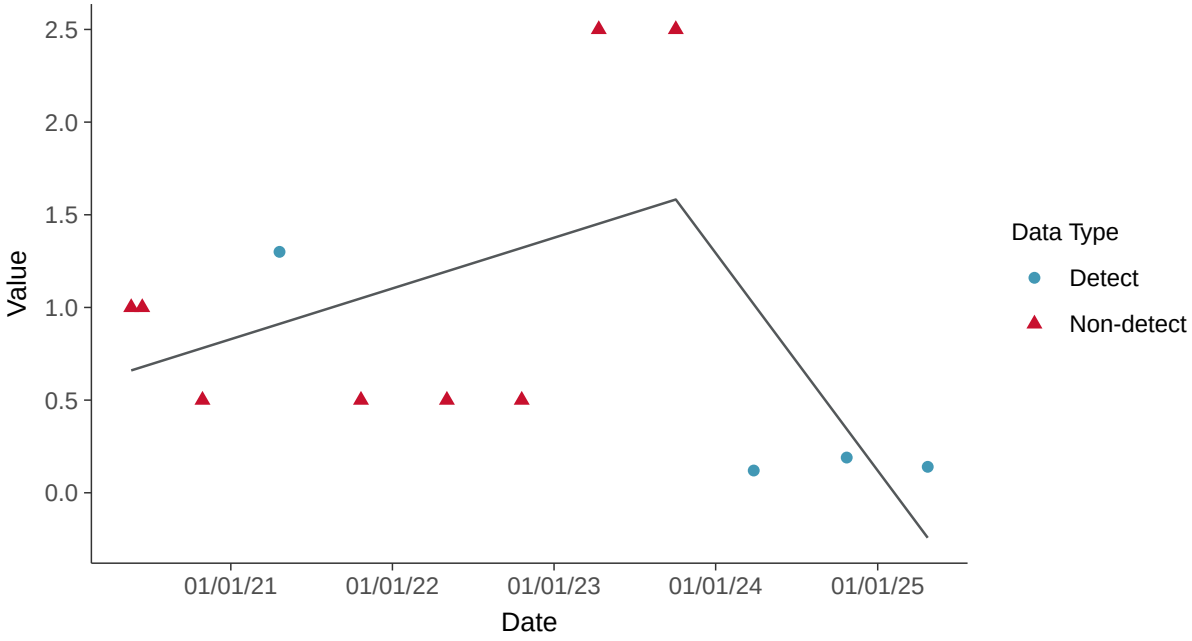
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-15016R (ug/L)



Trend Regression: Piecewise Linear-Linear

Selenium, MW-15016R (ug/L)

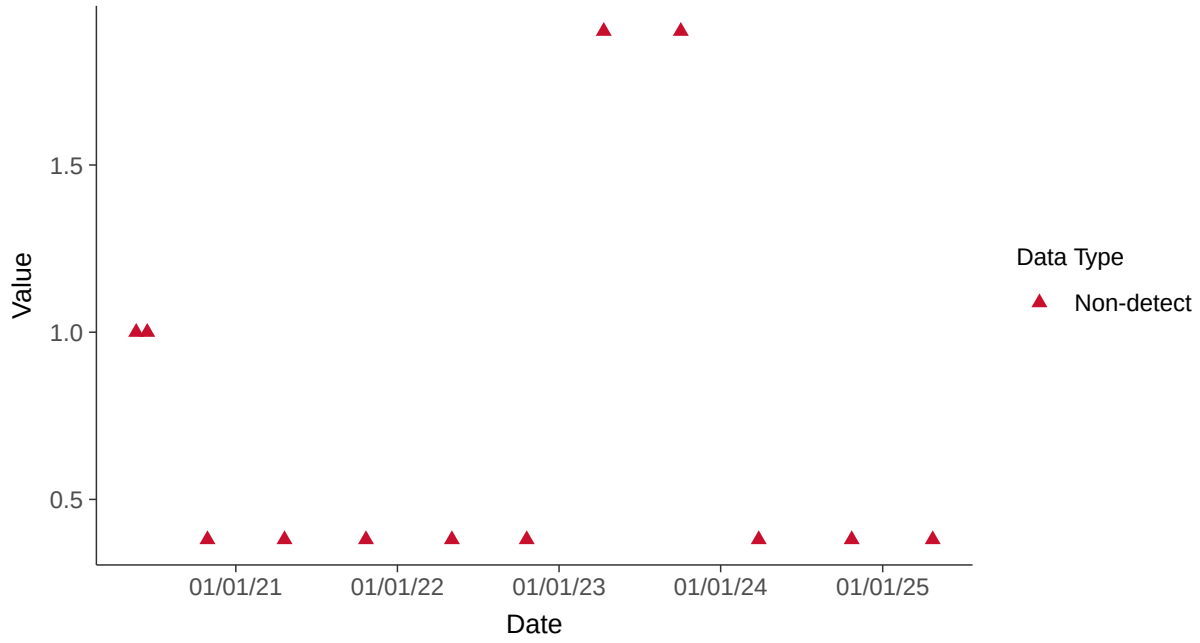


Appendix IV: Thallium, MW-15016R

ID: 06_2_131

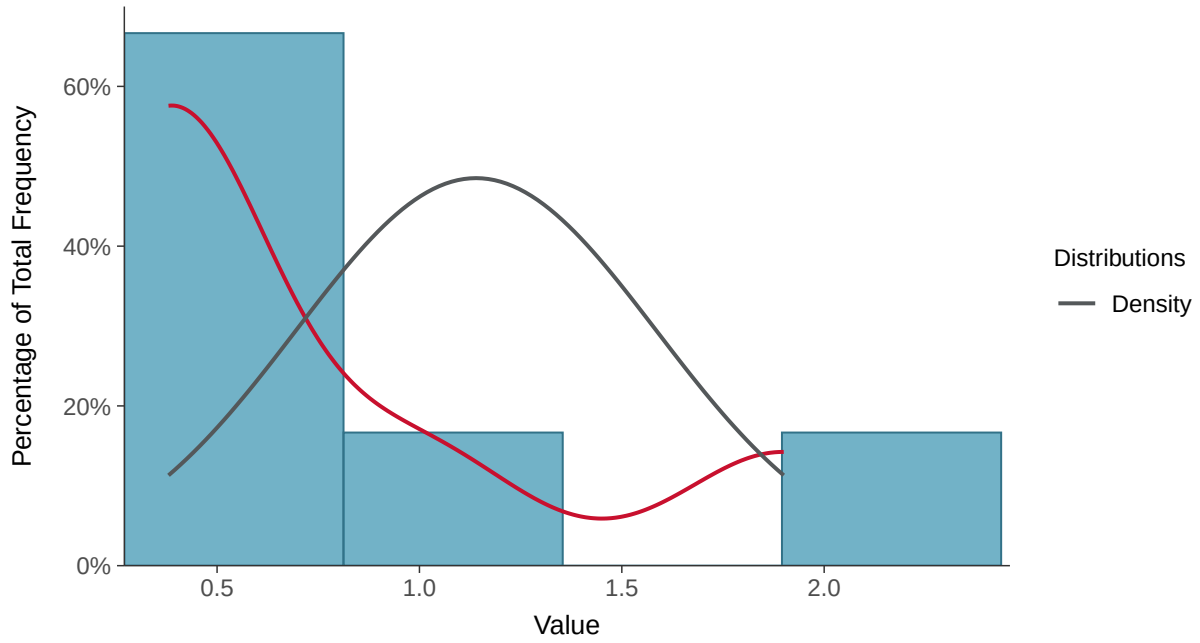
Scatter Plot

Thallium, MW-15016R (ug/L)



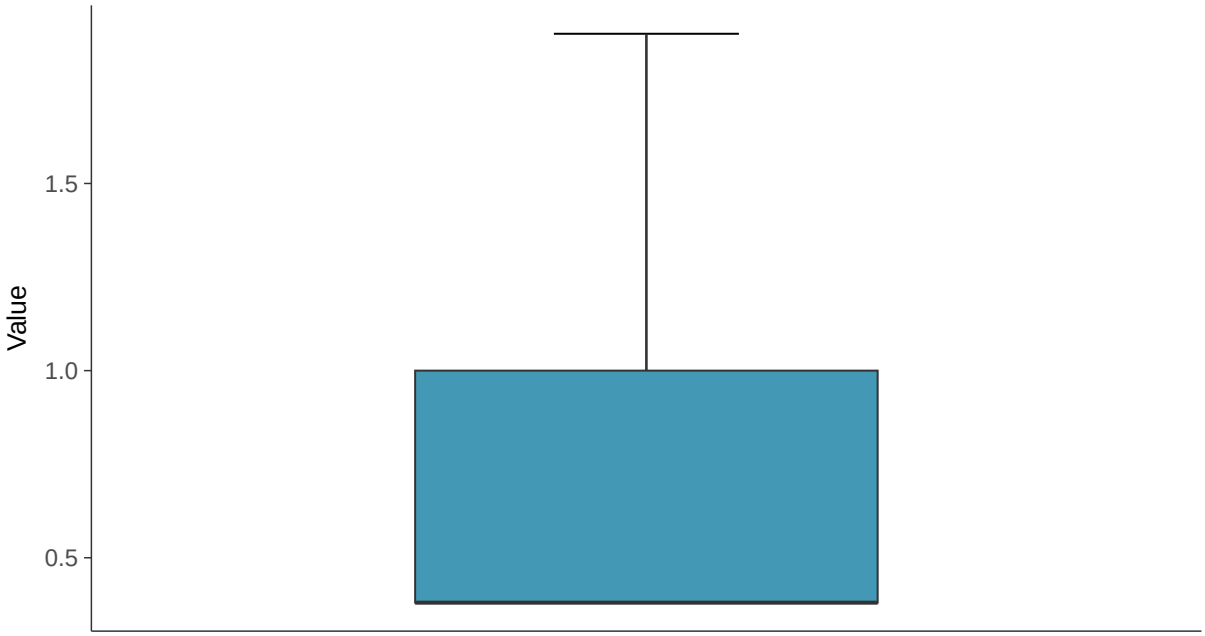
Histogram

Thallium, MW-15016R (ug/L)



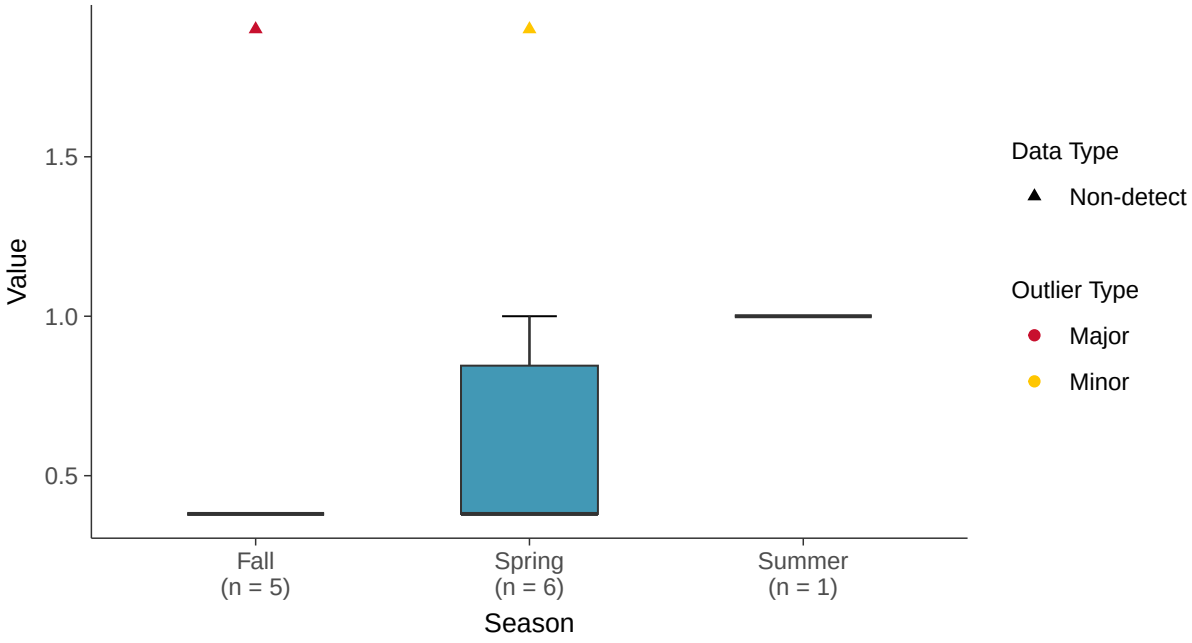
Boxplot

Thallium, MW-15016R (ug/L)



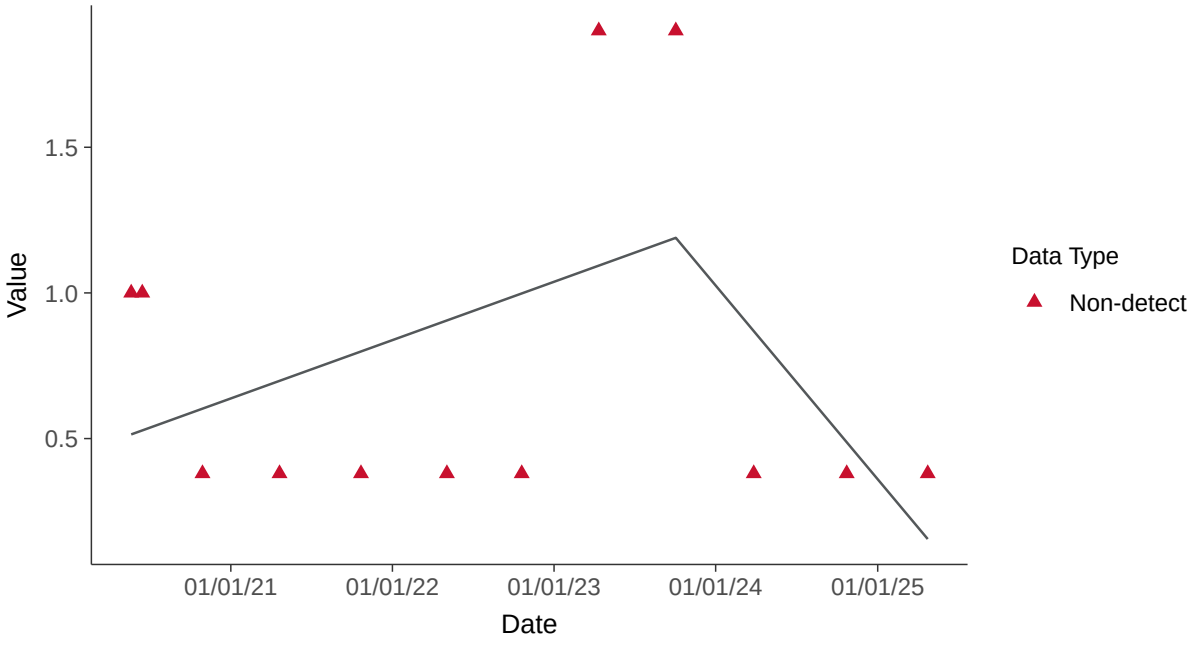
Boxplot by Season

Thallium, MW-15016R (ug/L)



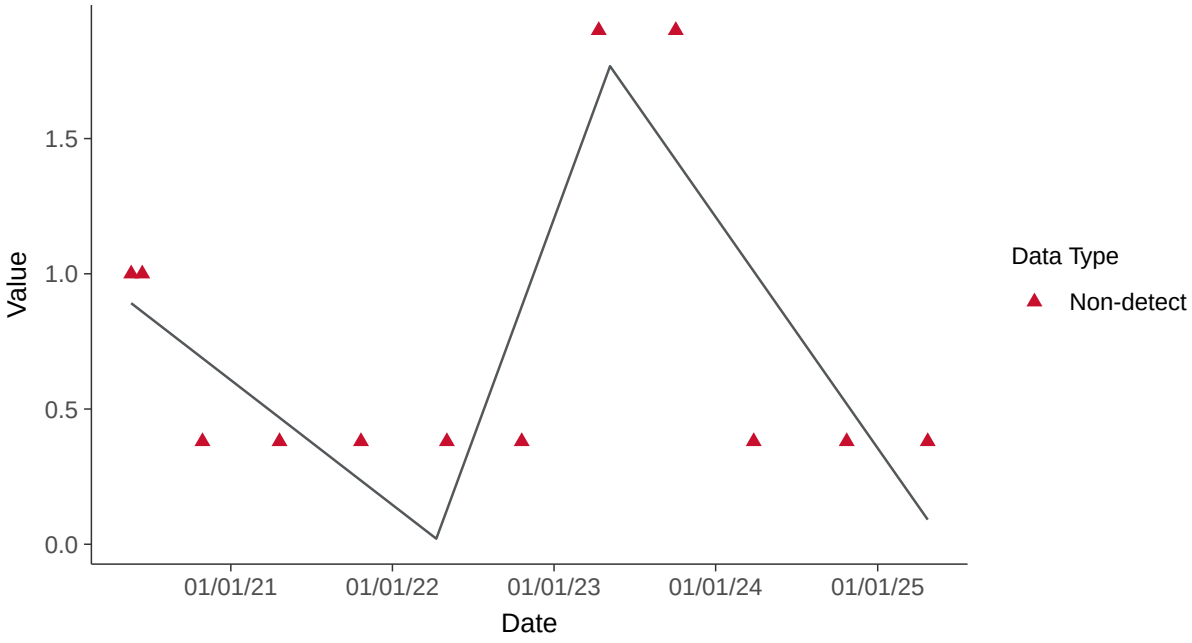
Trend Regression: Piecewise Linear-Linear

Thallium, MW-15016R (ug/L)



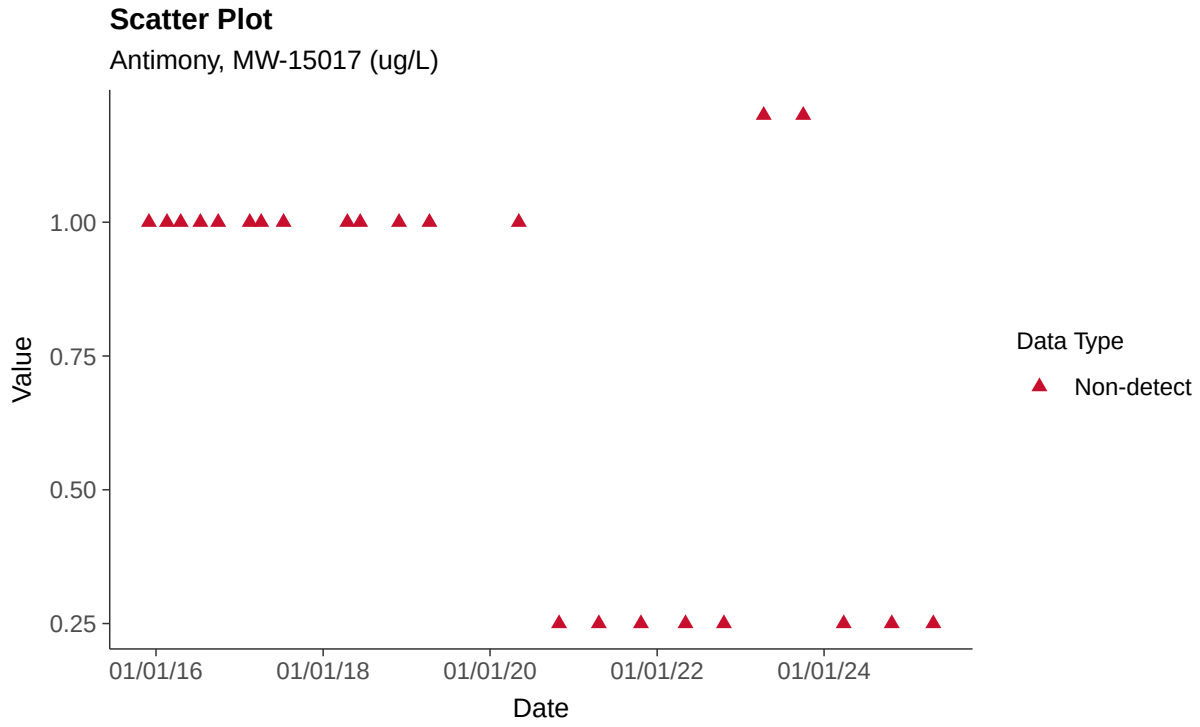
Trend Regression: Piecewise Linear-Linear-Linear

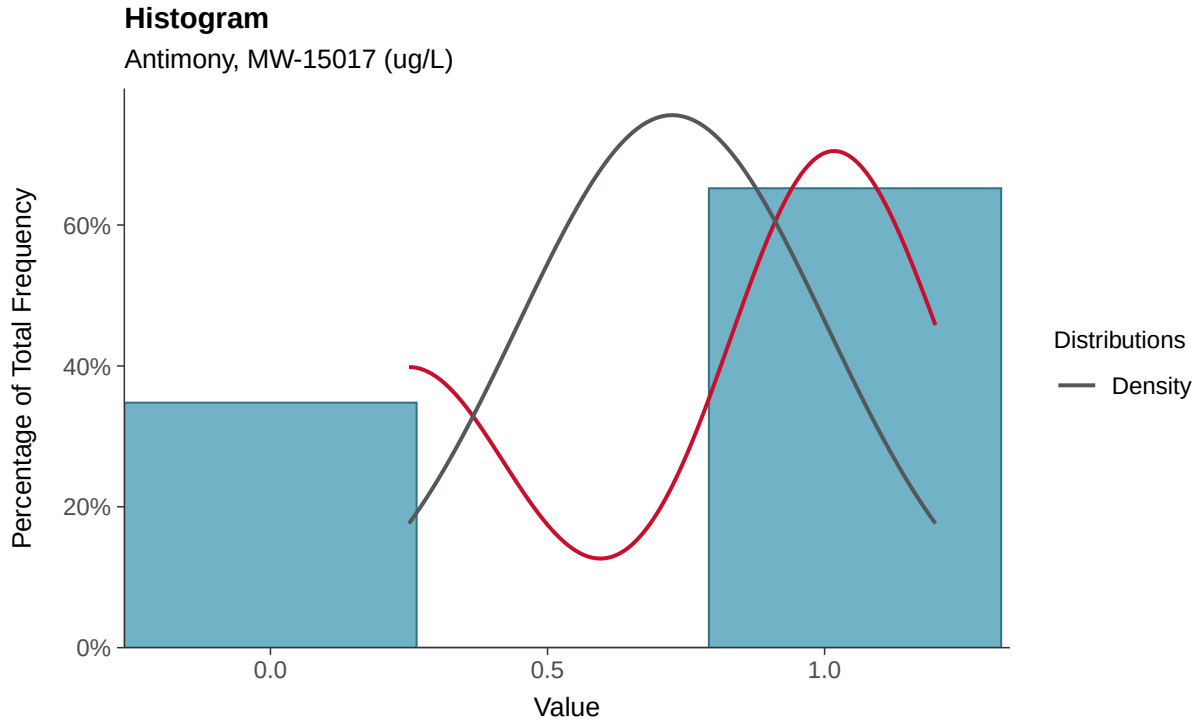
Thallium, MW-15016R (ug/L)



Appendix IV: Antimony, MW-15017

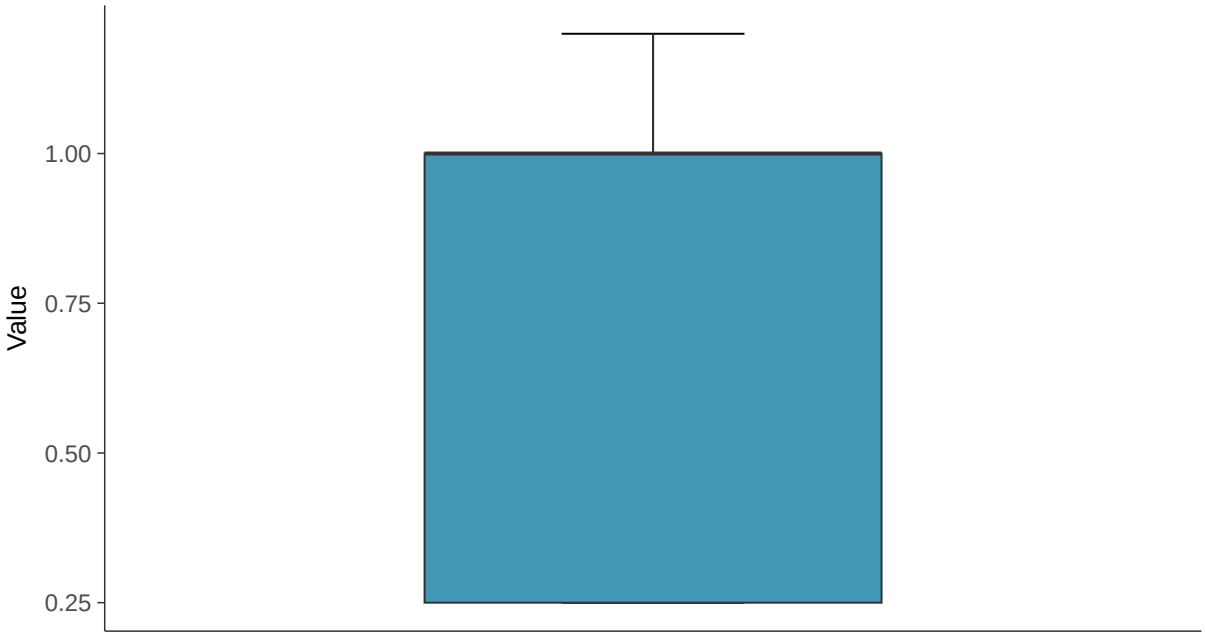
ID: 07_2_101





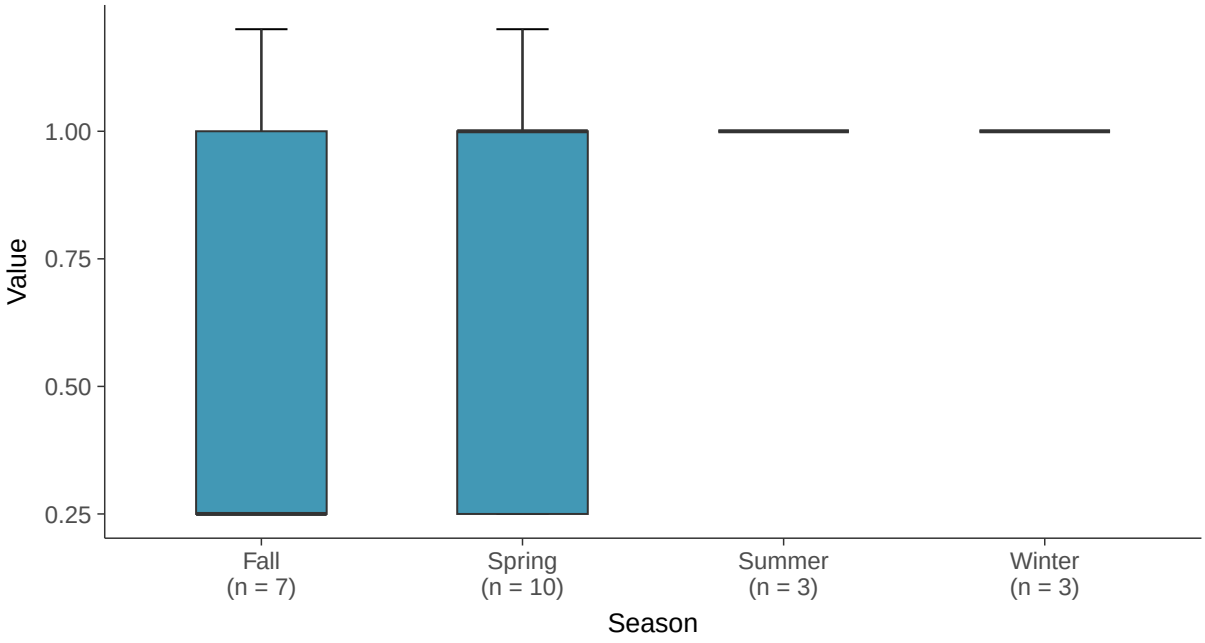
Boxplot

Antimony, MW-15017 (ug/L)



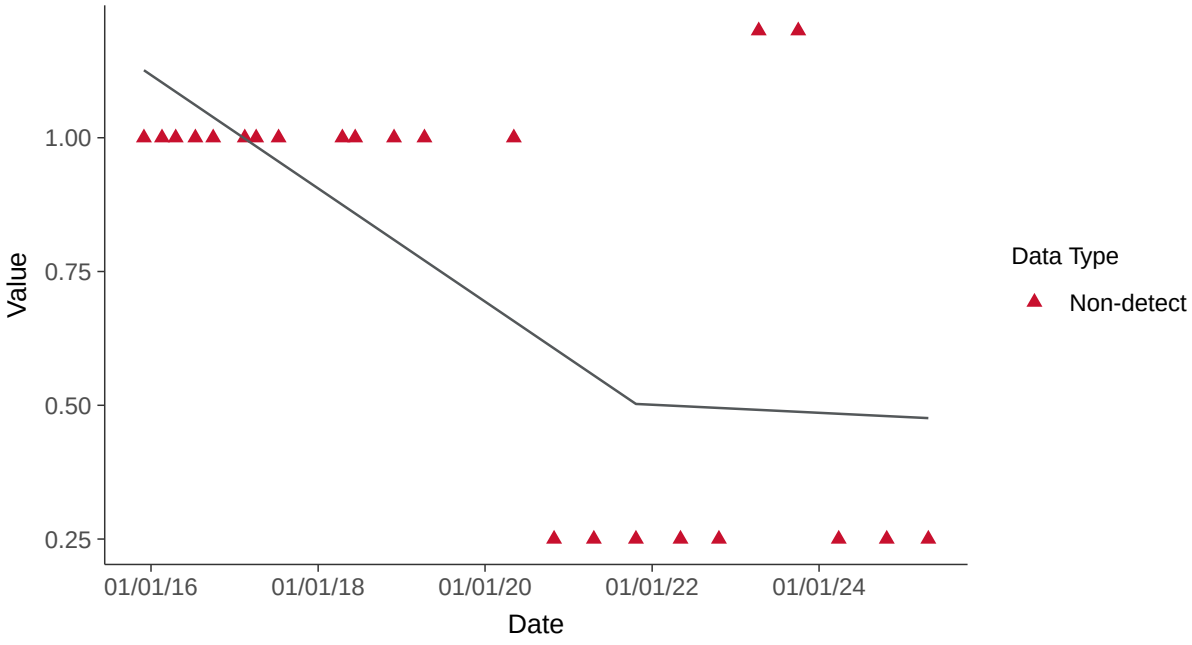
Boxplot by Season

Antimony, MW-15017 (ug/L)



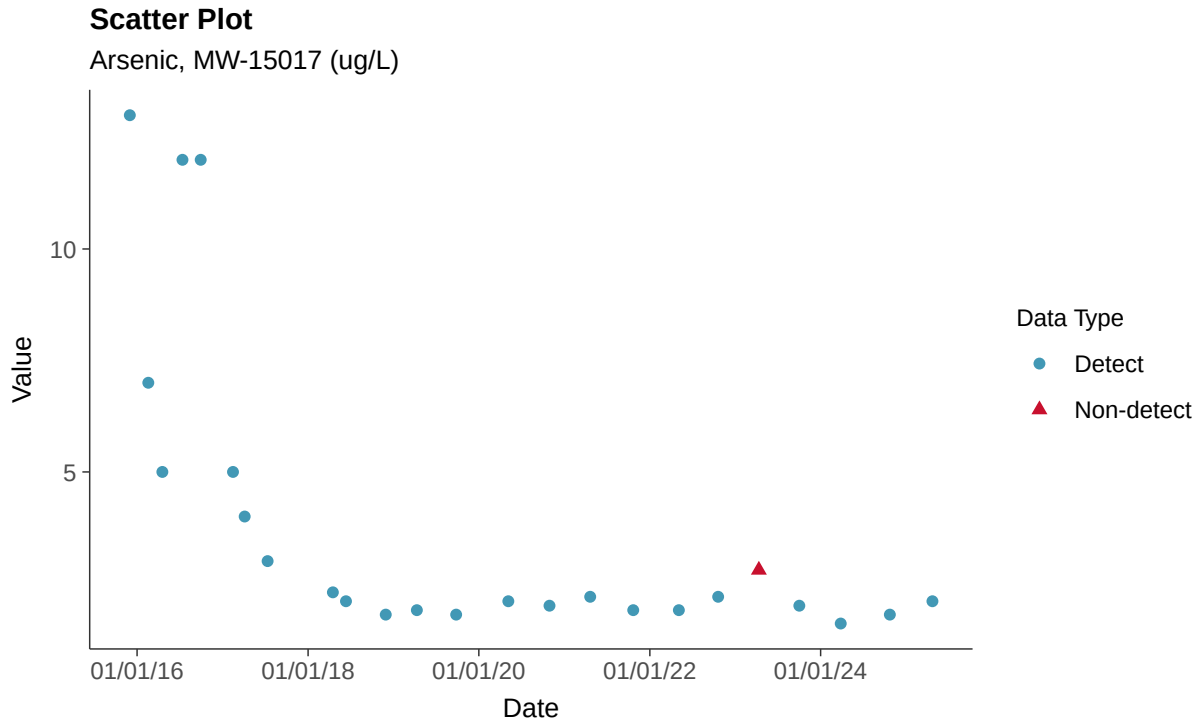
Trend Regression: Piecewise Linear-Linear

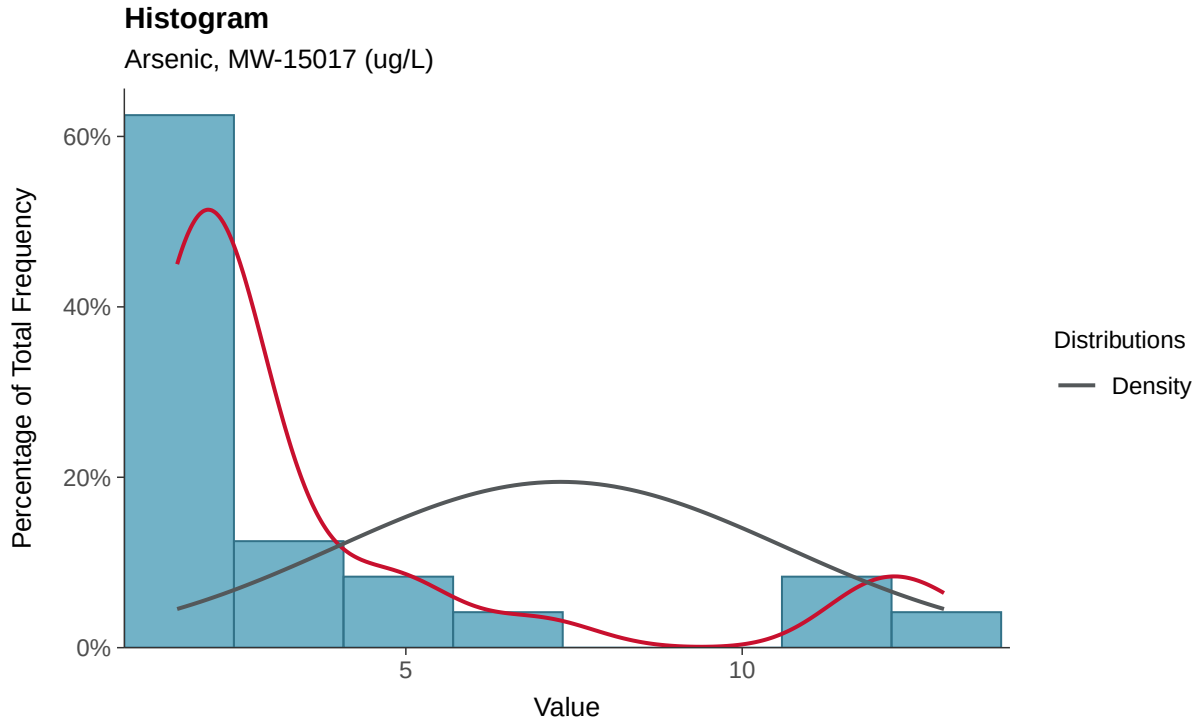
Antimony, MW-15017 (ug/L)



Appendix IV: Arsenic, MW-15017

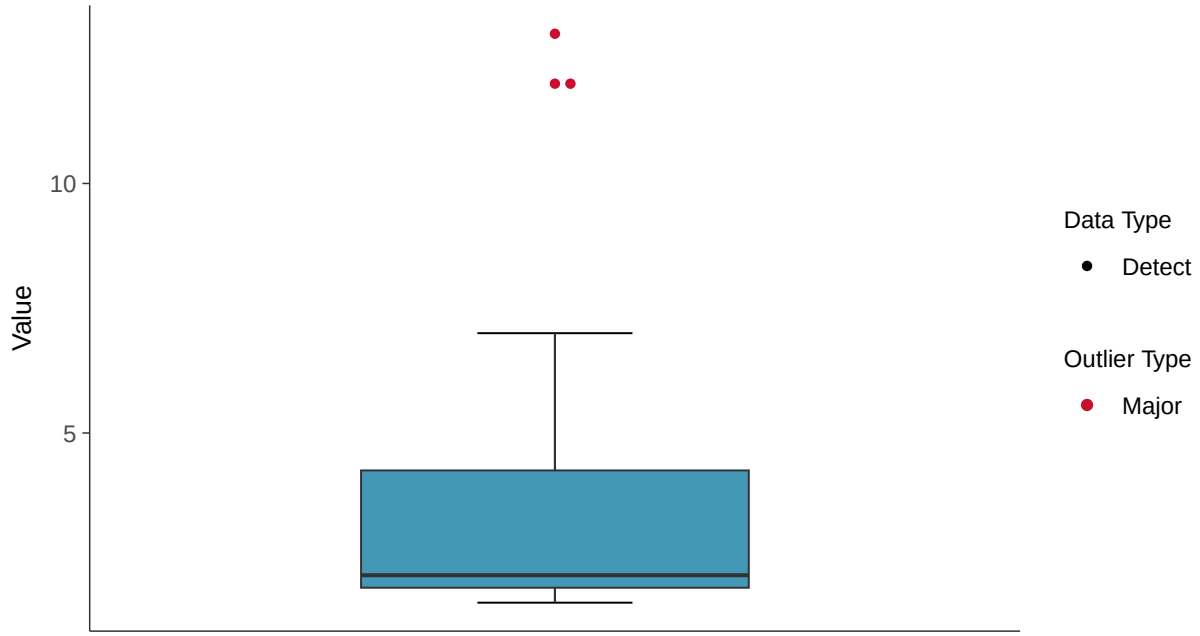
ID: 07_2_102





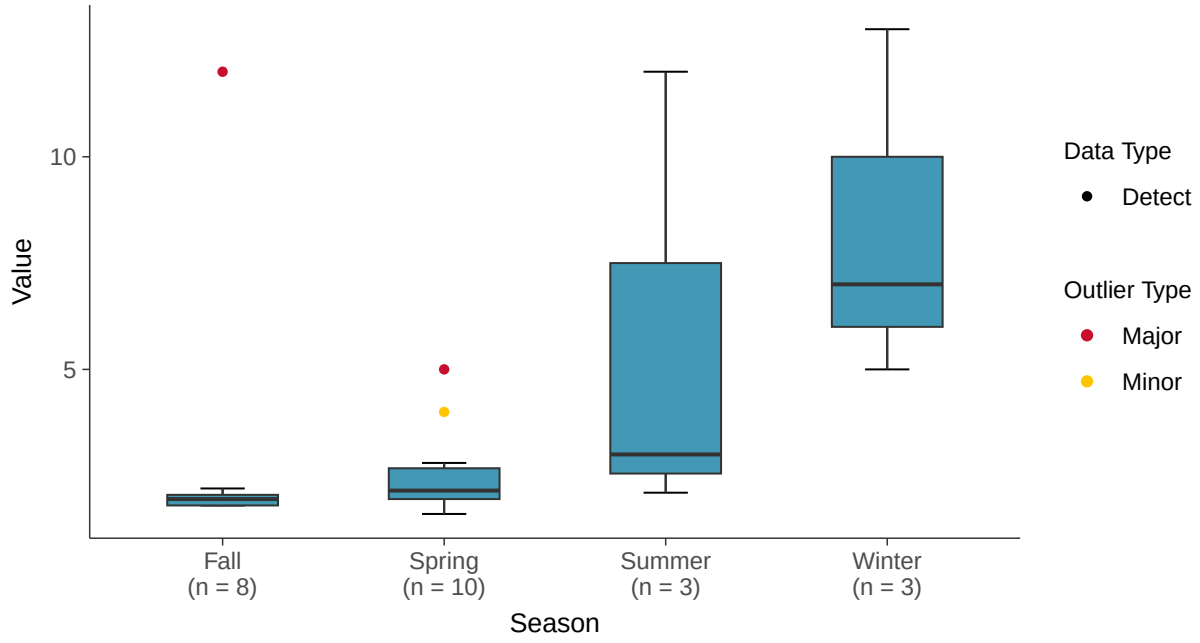
Boxplot

Arsenic, MW-15017 (ug/L)



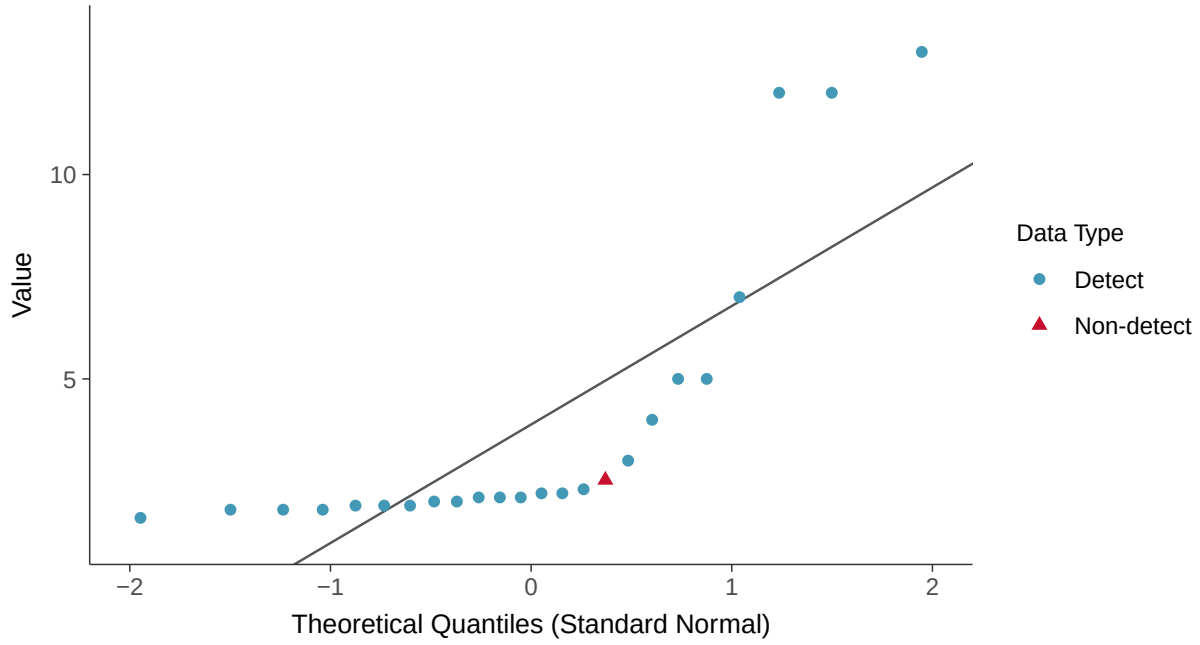
Boxplot by Season

Arsenic, MW-15017 (ug/L)



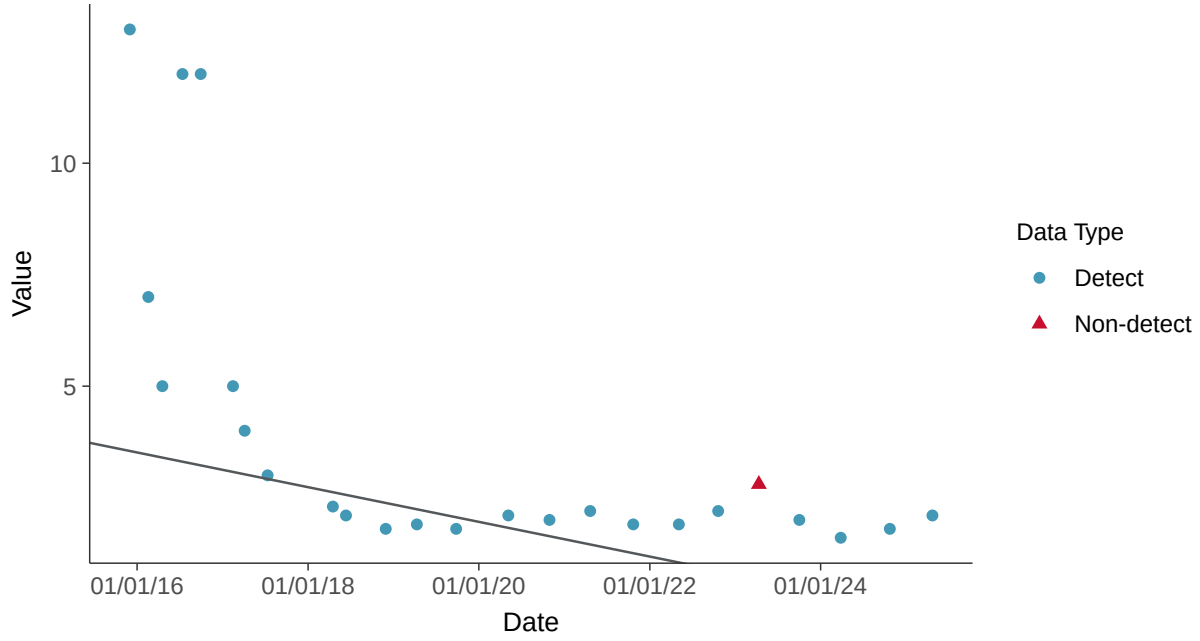
Normal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15017 (ug/L)



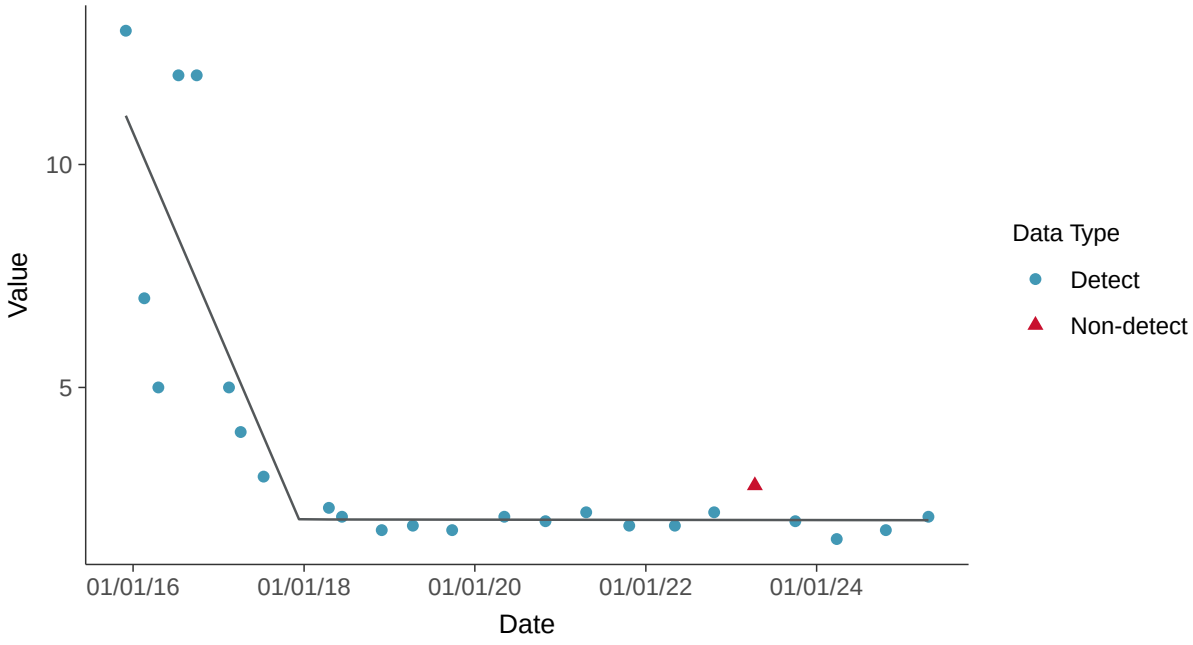
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-15017 (ug/L)



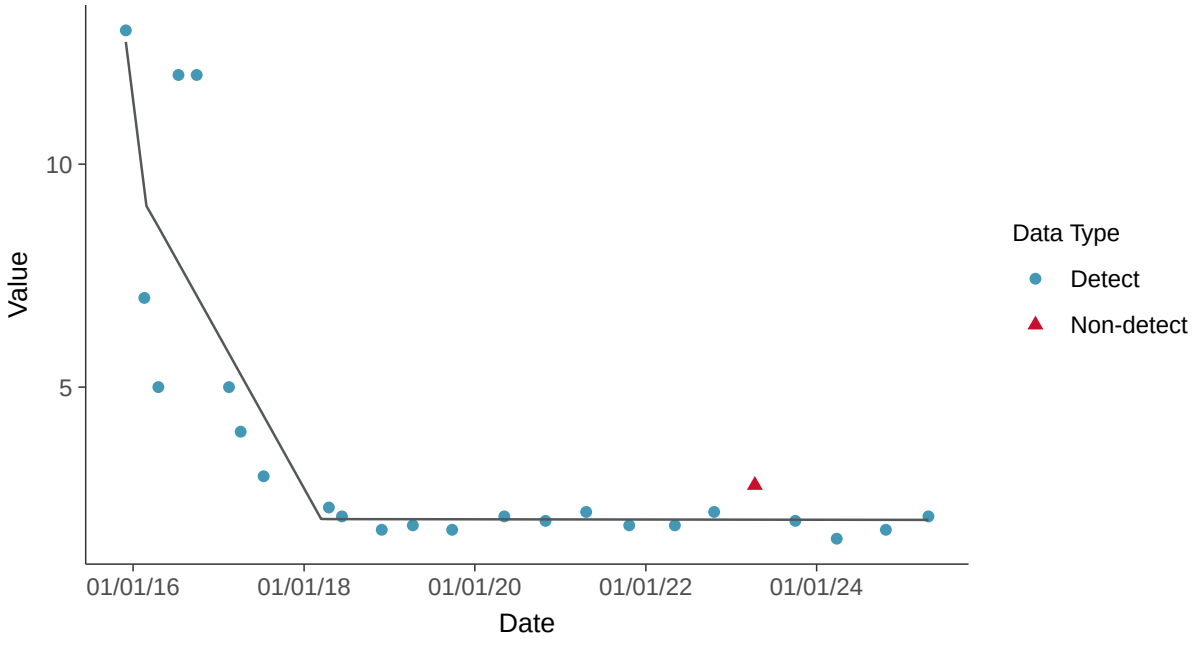
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-15017 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-15017 (ug/L)

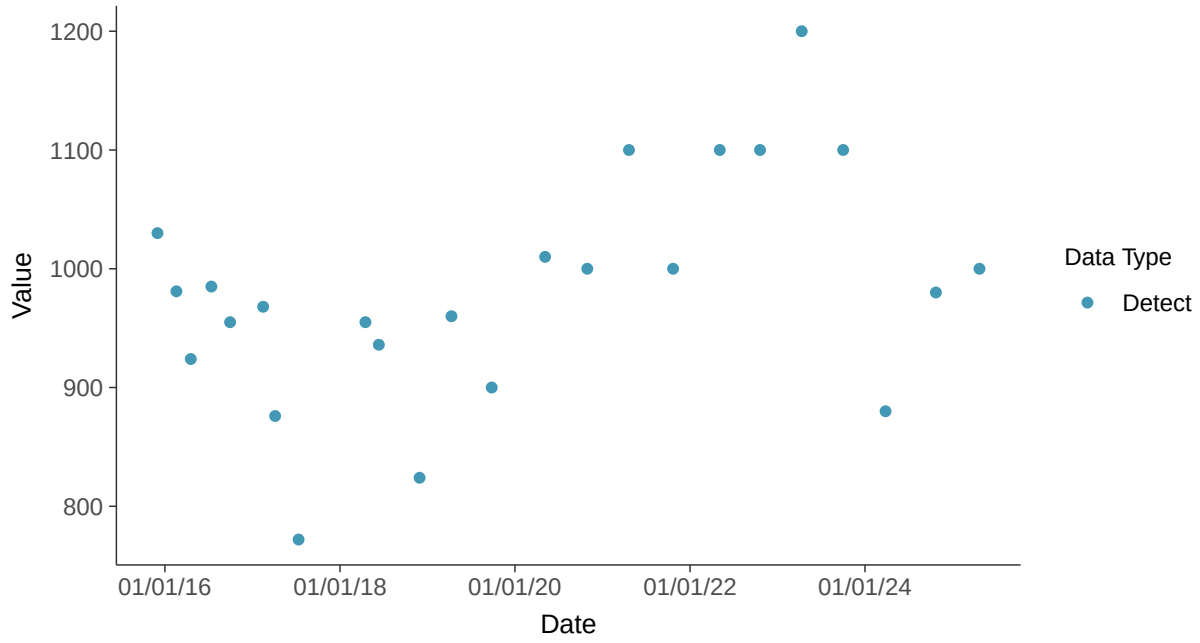


Appendix IV: Barium, MW-15017

ID: 07_2_103

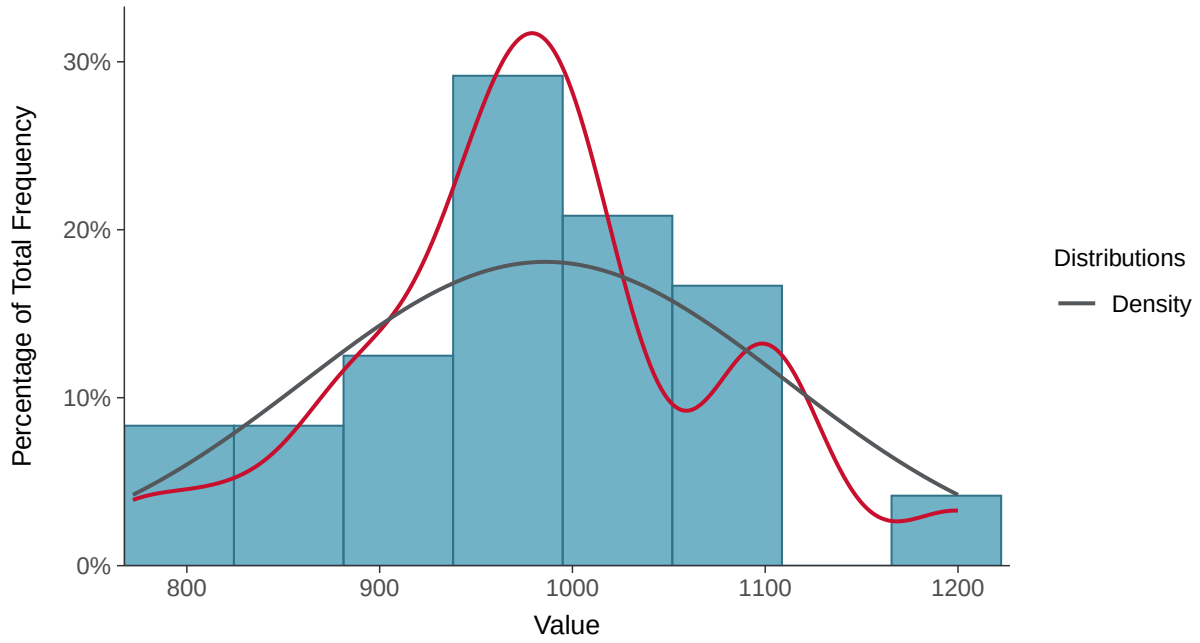
Scatter Plot

Barium, MW-15017 (ug/L)



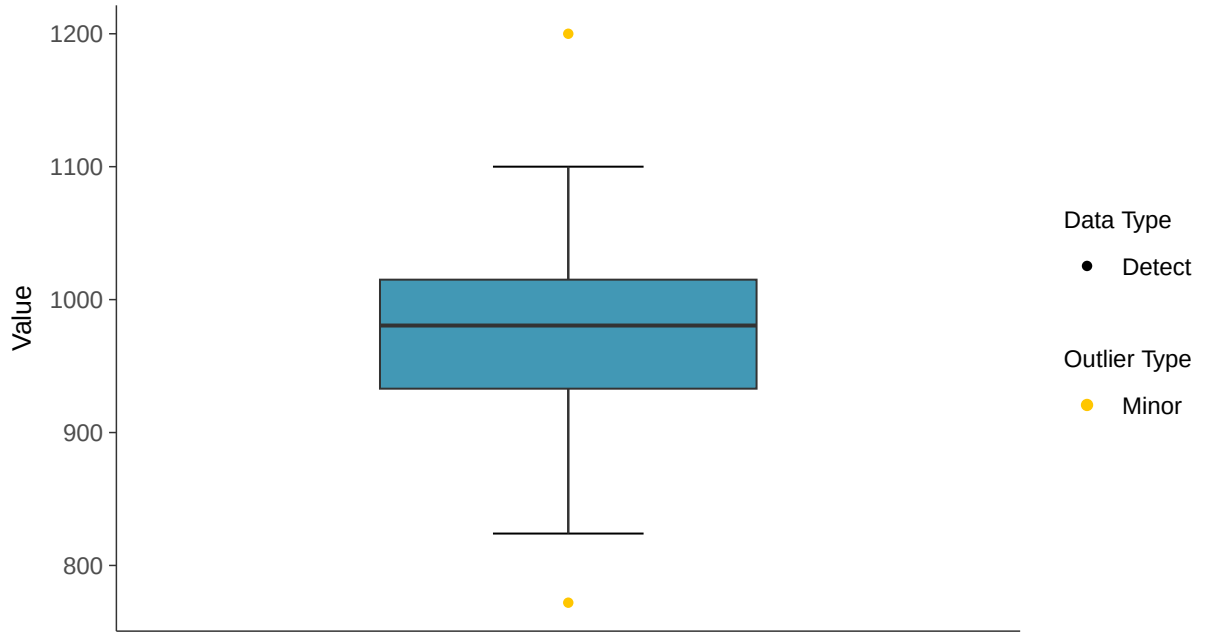
Histogram

Barium, MW-15017 (ug/L)



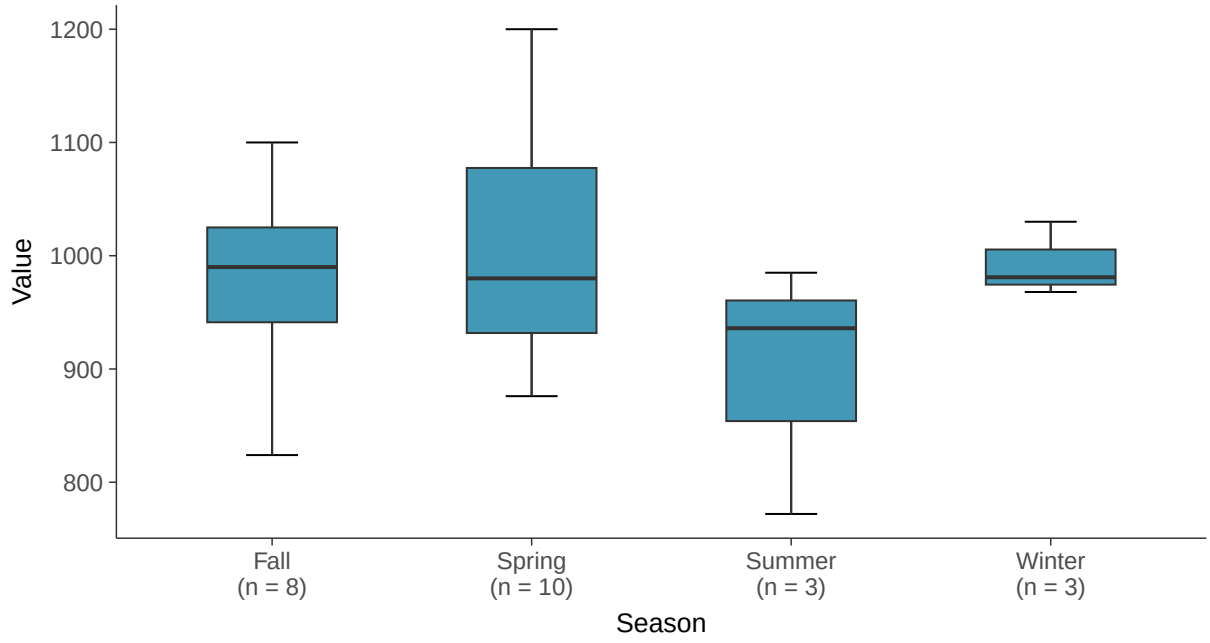
Boxplot

Barium, MW-15017 (ug/L)



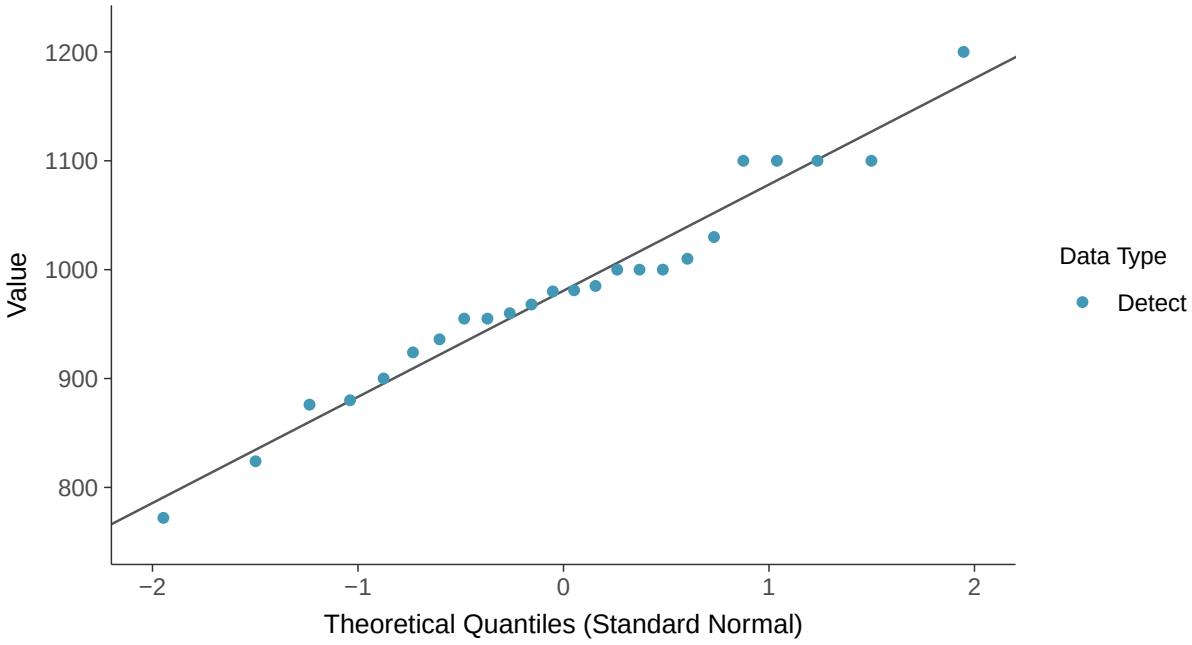
Boxplot by Season

Barium, MW-15017 (ug/L)



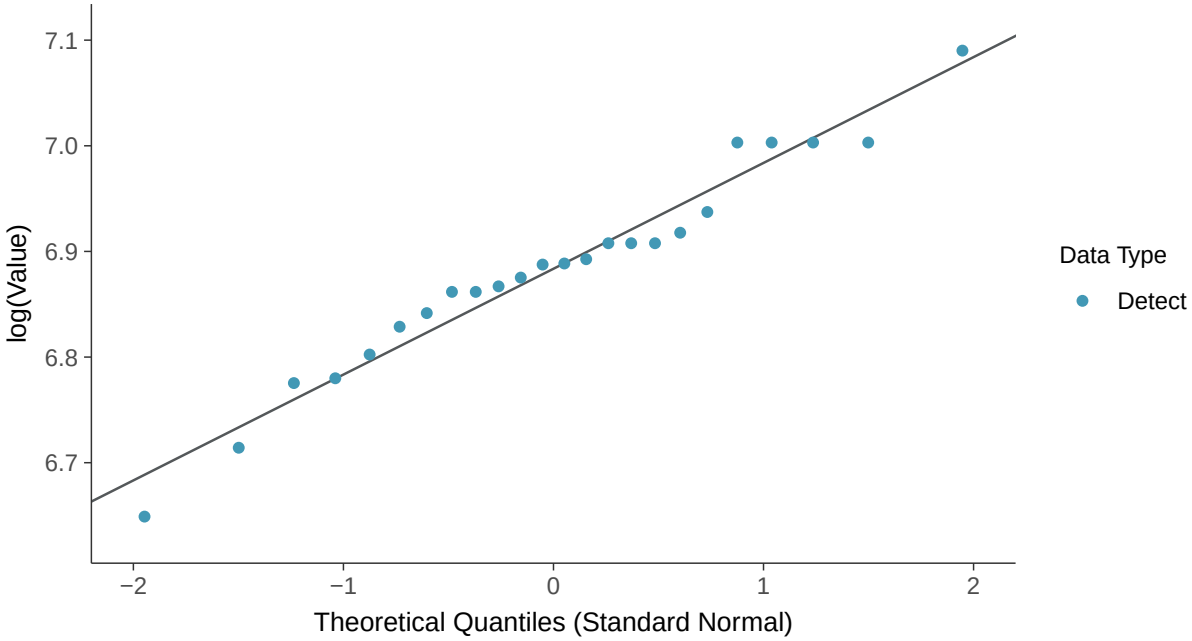
Normal Q-Q plot

Barium, MW-15017 (ug/L)



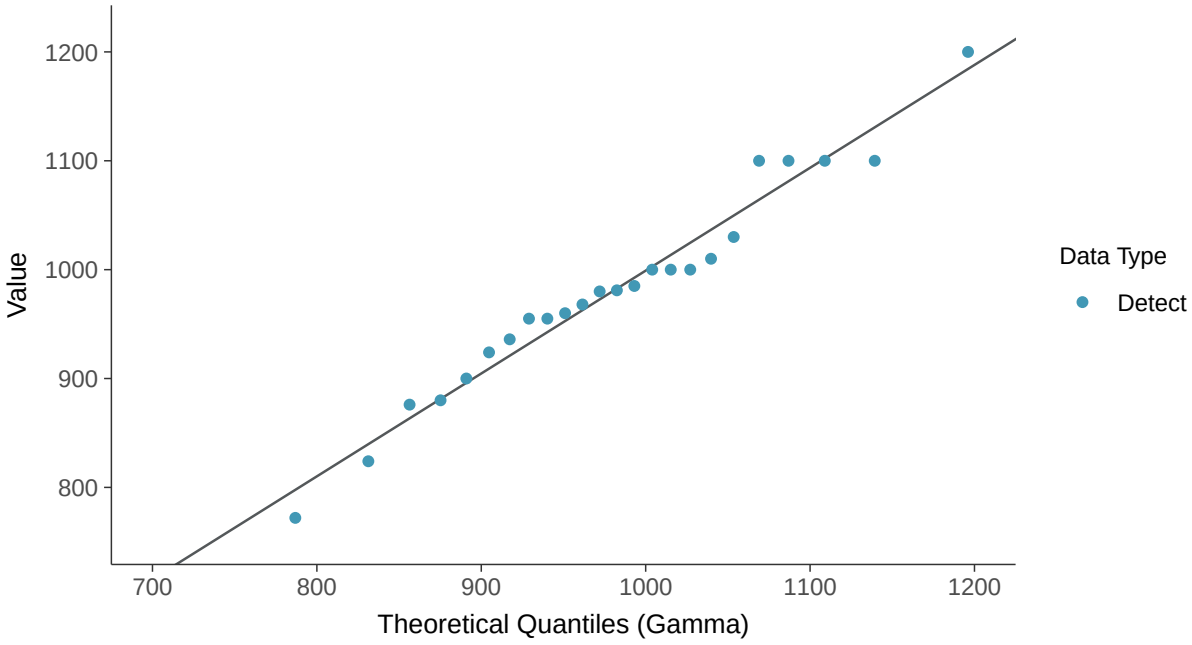
Lognormal Q-Q plot

Barium, MW-15017 (ug/L)



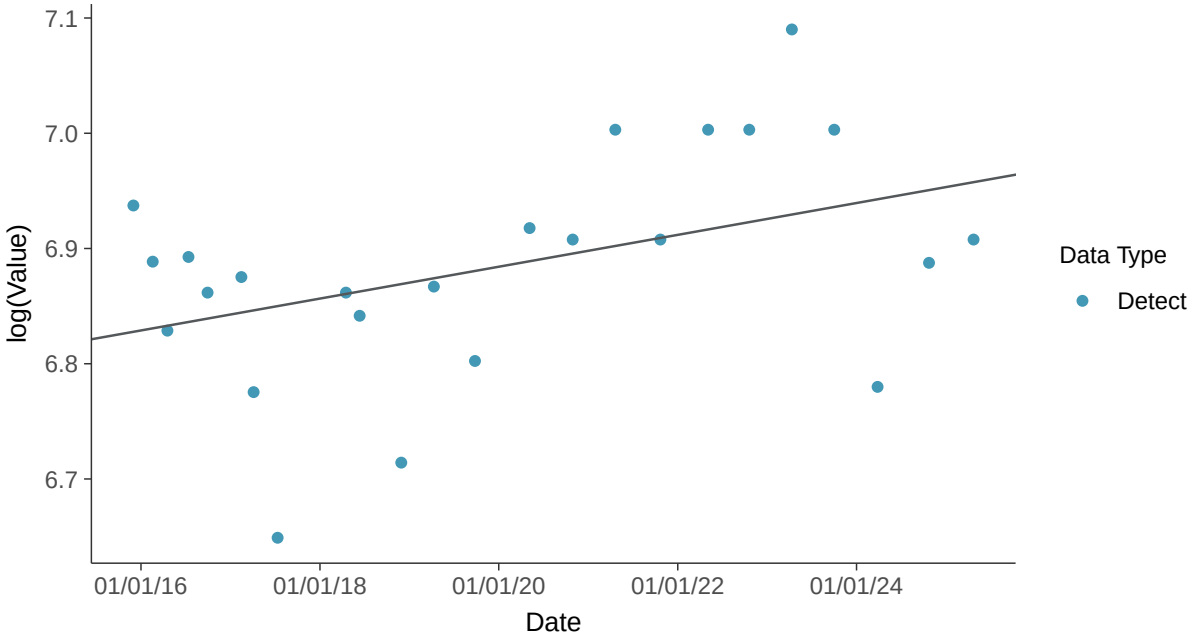
Gamma Q-Q plot

Barium, MW-15017 (ug/L)



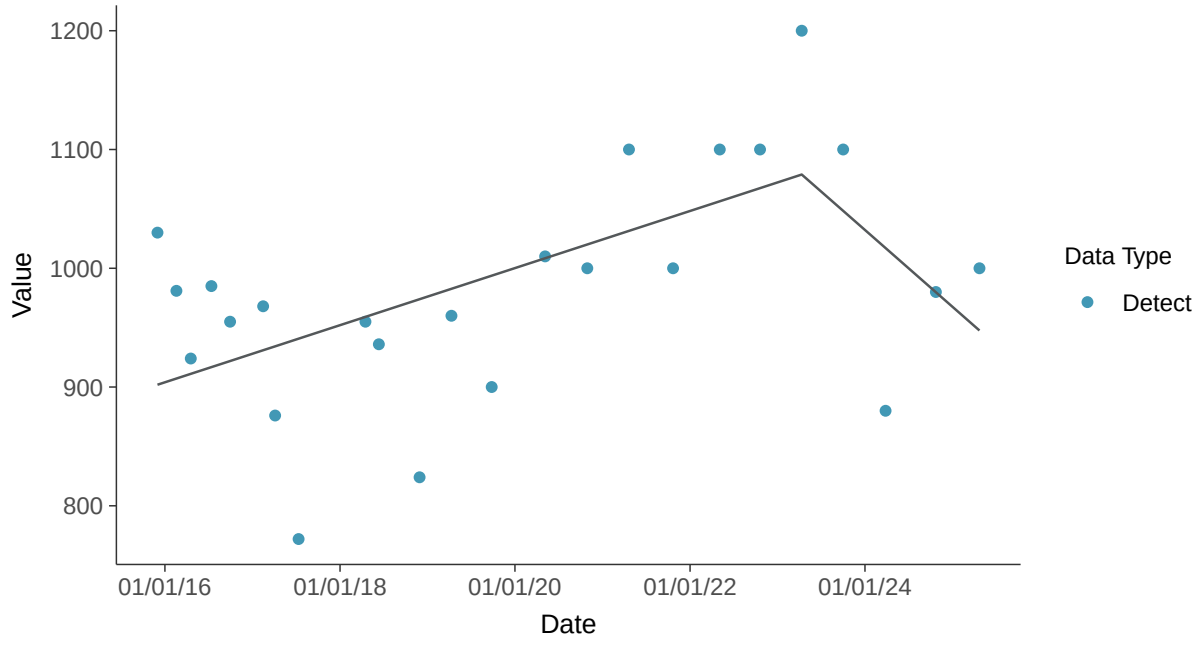
Trend Regression: Lognormal MLE

Barium, MW-15017 (ug/L)



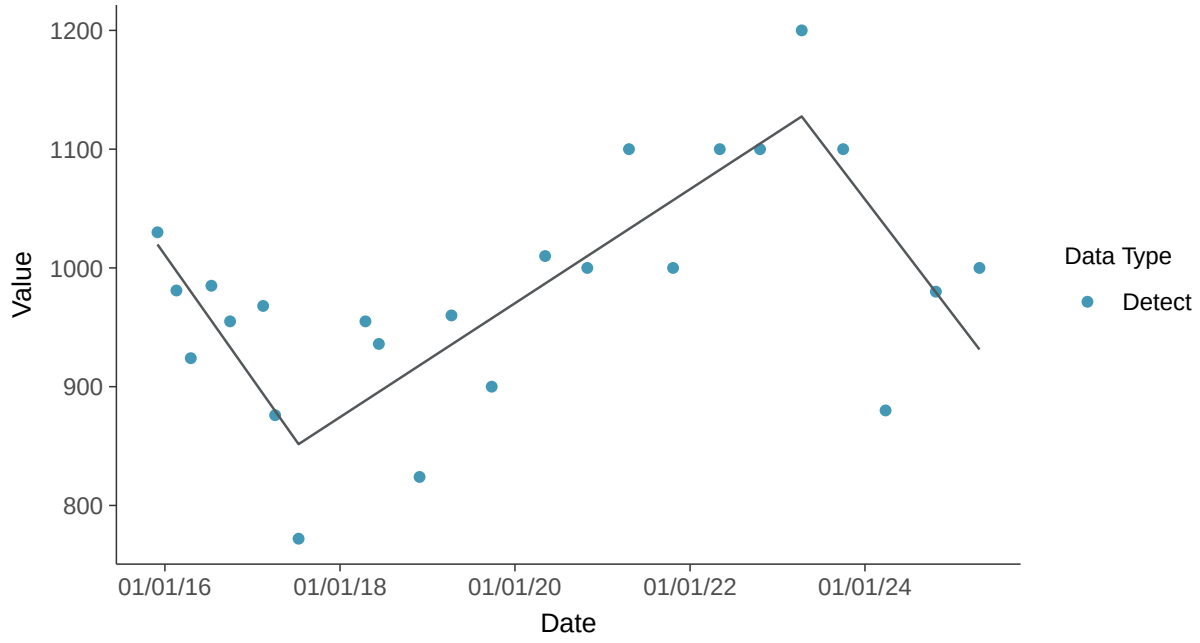
Trend Regression: Piecewise Linear-Linear

Barium, MW-15017 (ug/L)



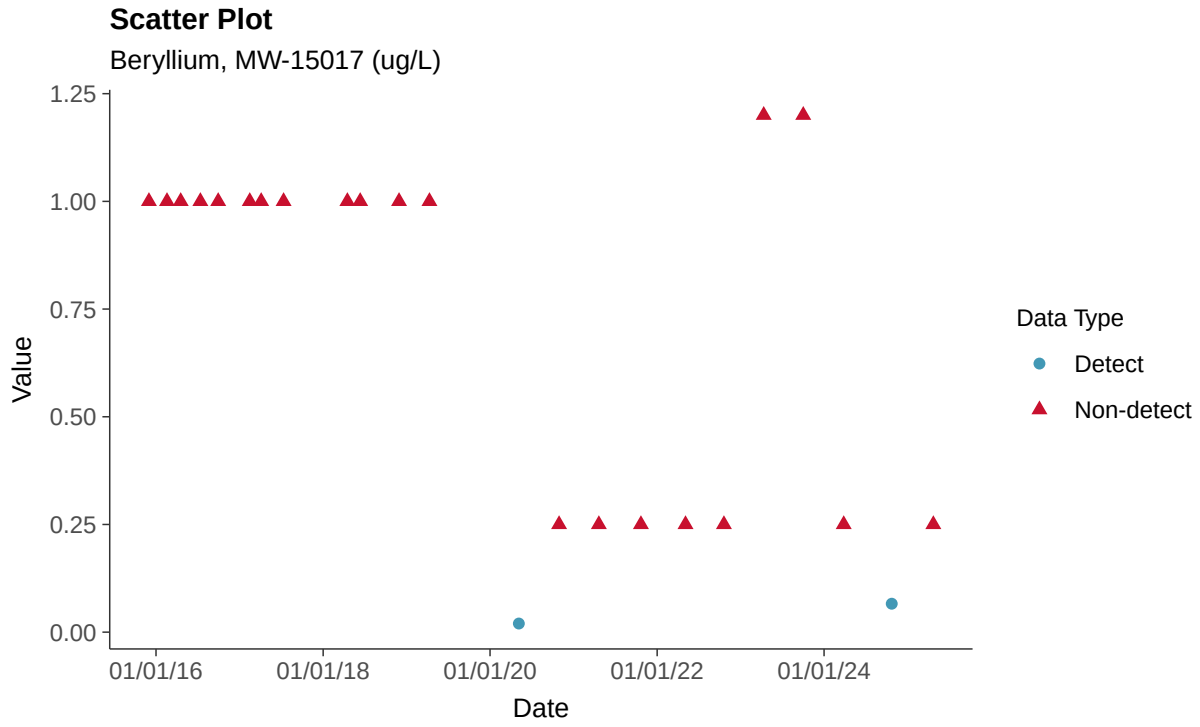
Trend Regression: Piecewise Linear-Linear-Linear

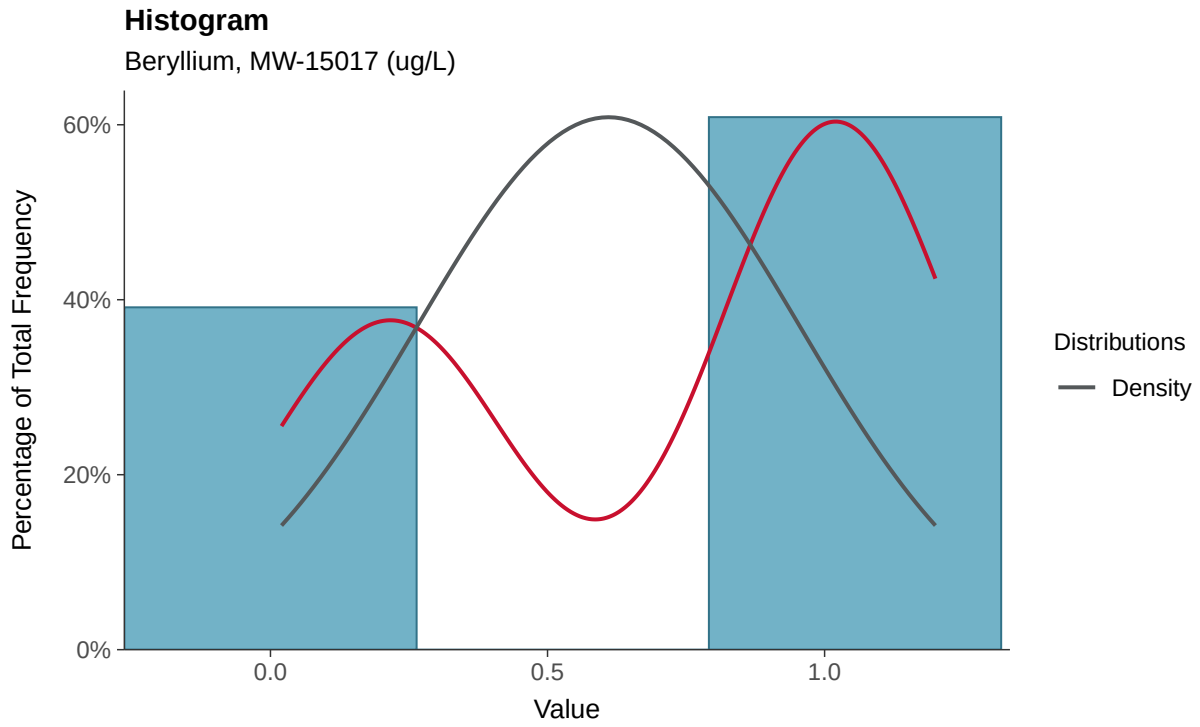
Barium, MW-15017 (ug/L)



Appendix IV: Beryllium, MW-15017

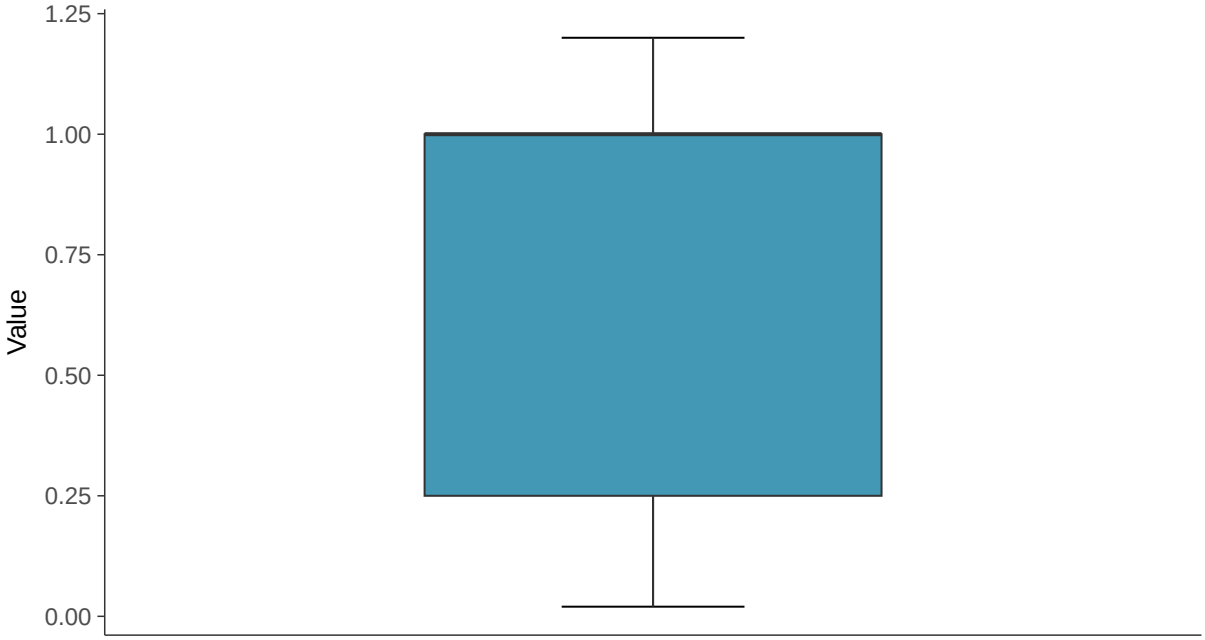
ID: 07_2_104





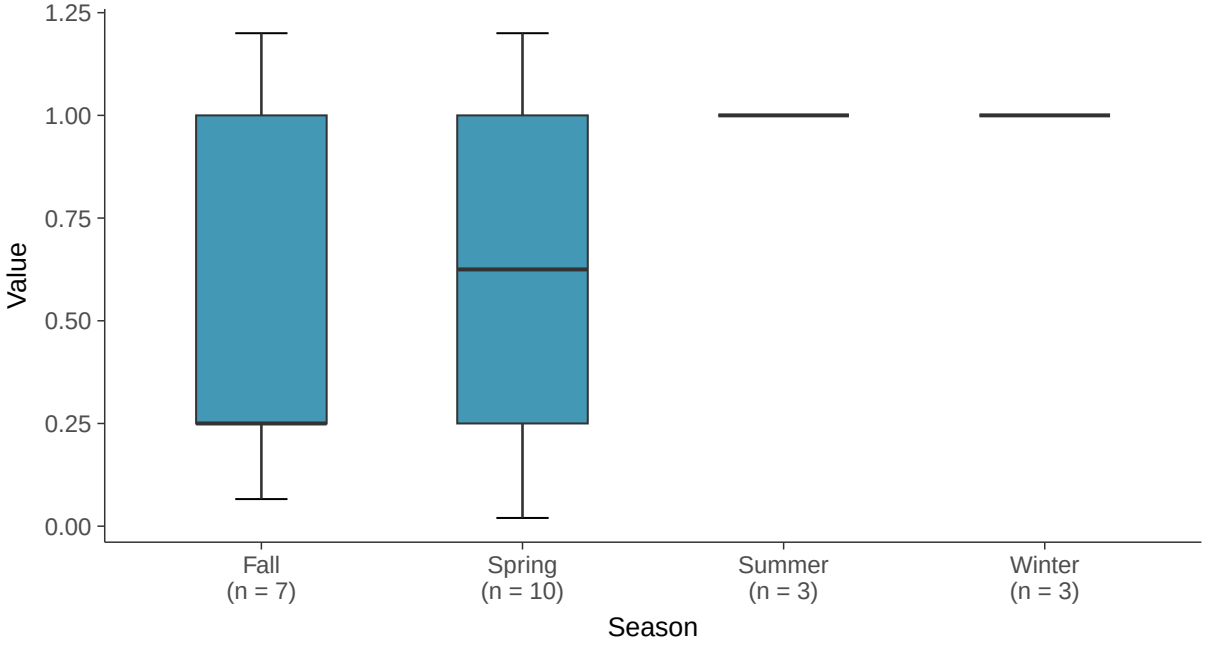
Boxplot

Beryllium, MW-15017 (ug/L)



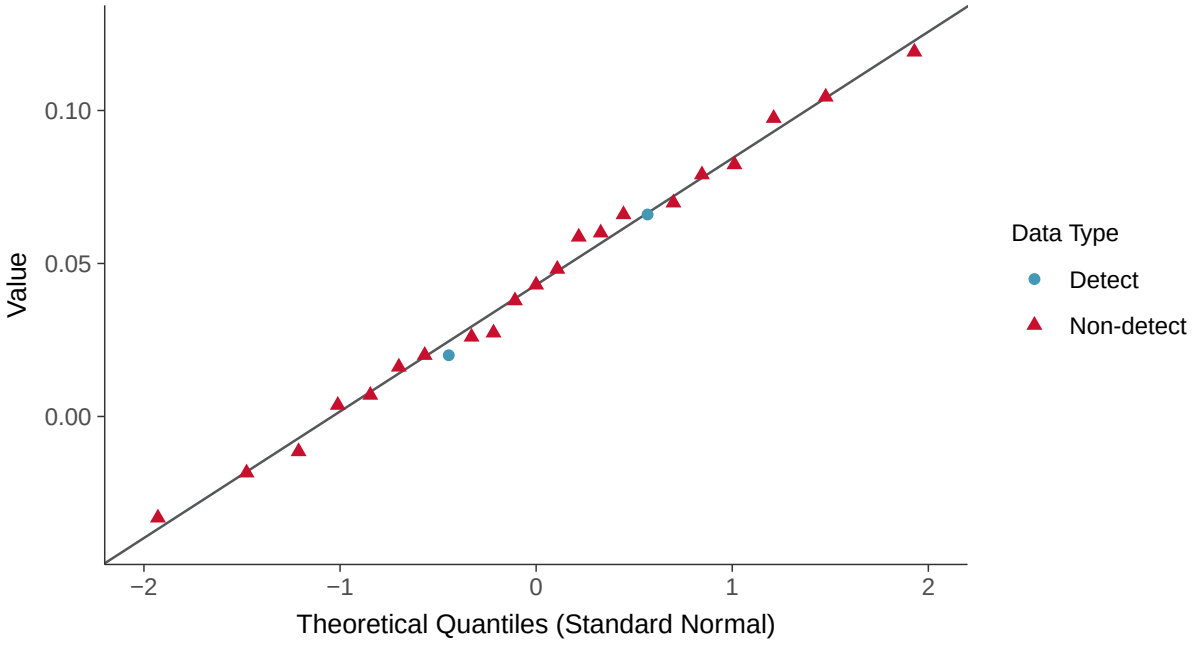
Boxplot by Season

Beryllium, MW-15017 (ug/L)



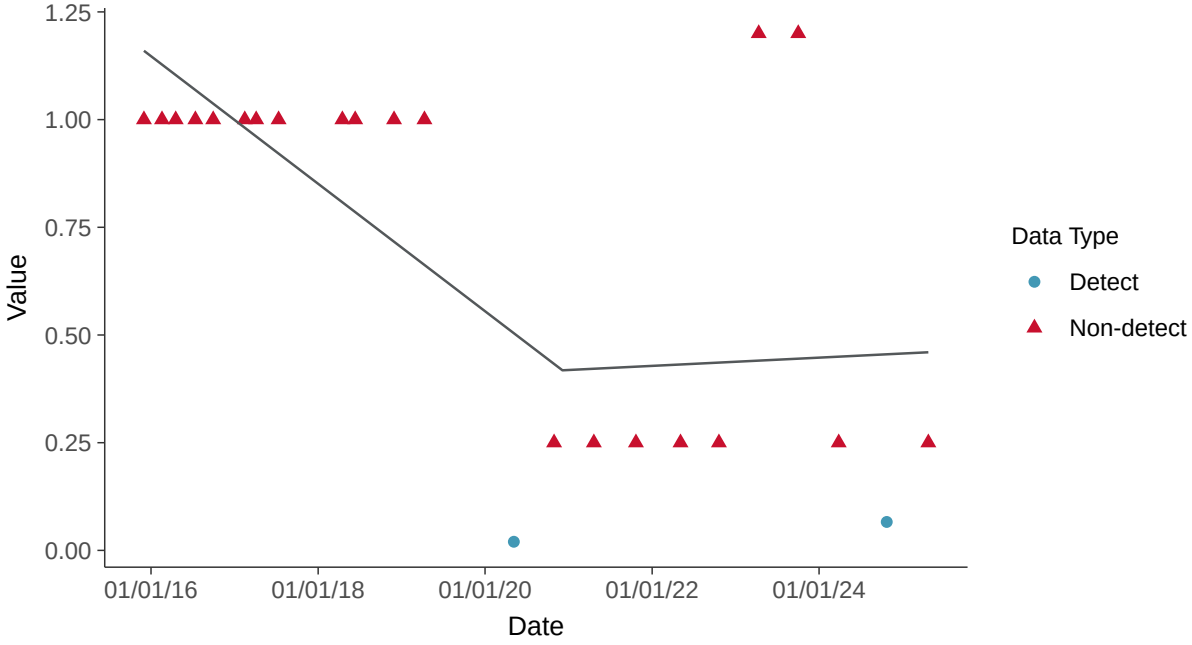
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-15017 (ug/L)



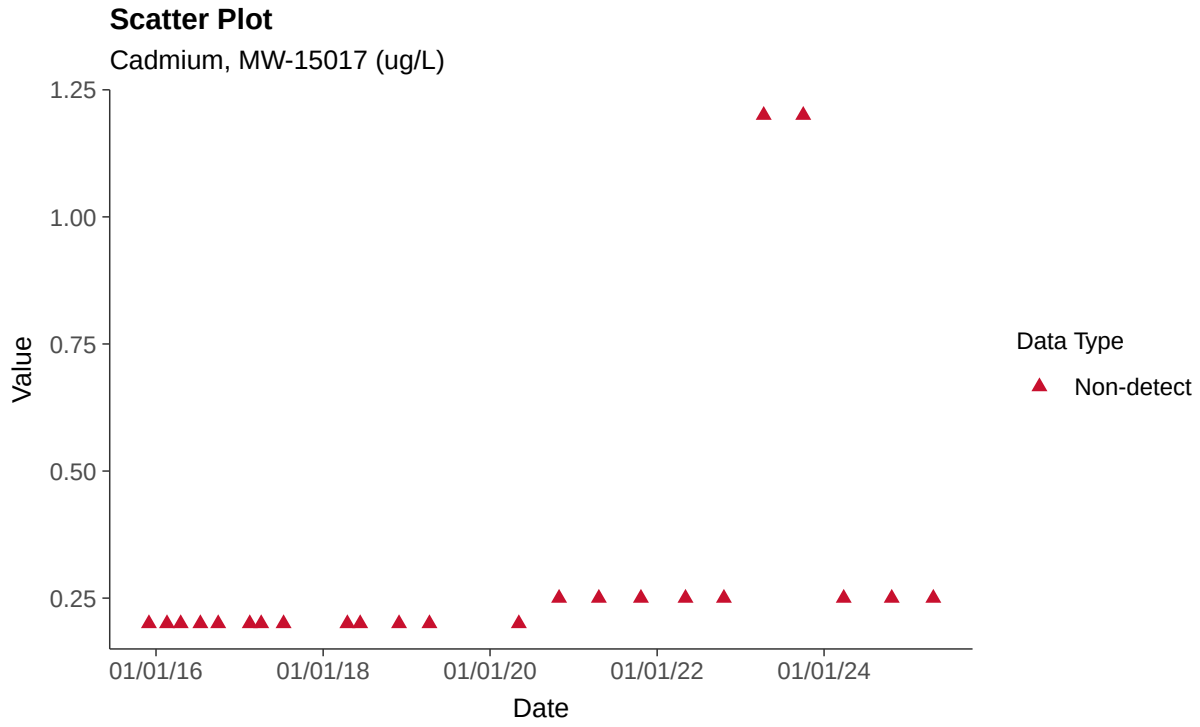
Trend Regression: Piecewise Linear-Linear

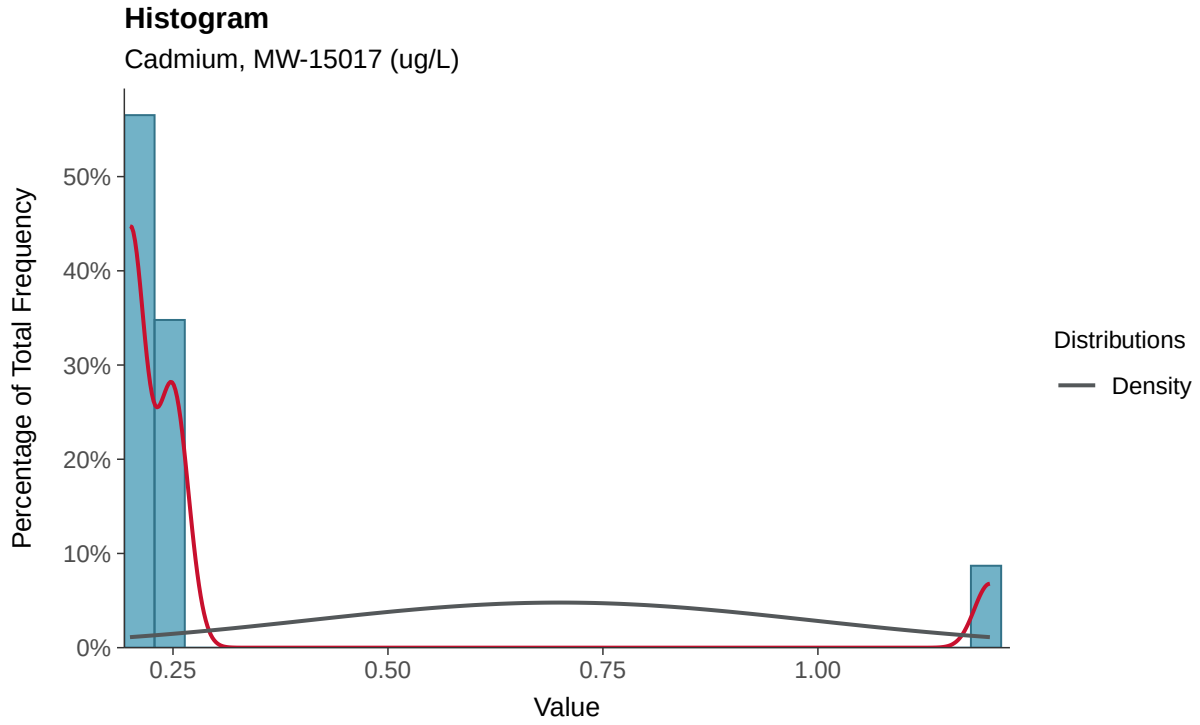
Beryllium, MW-15017 (ug/L)



Appendix IV: Cadmium, MW-15017

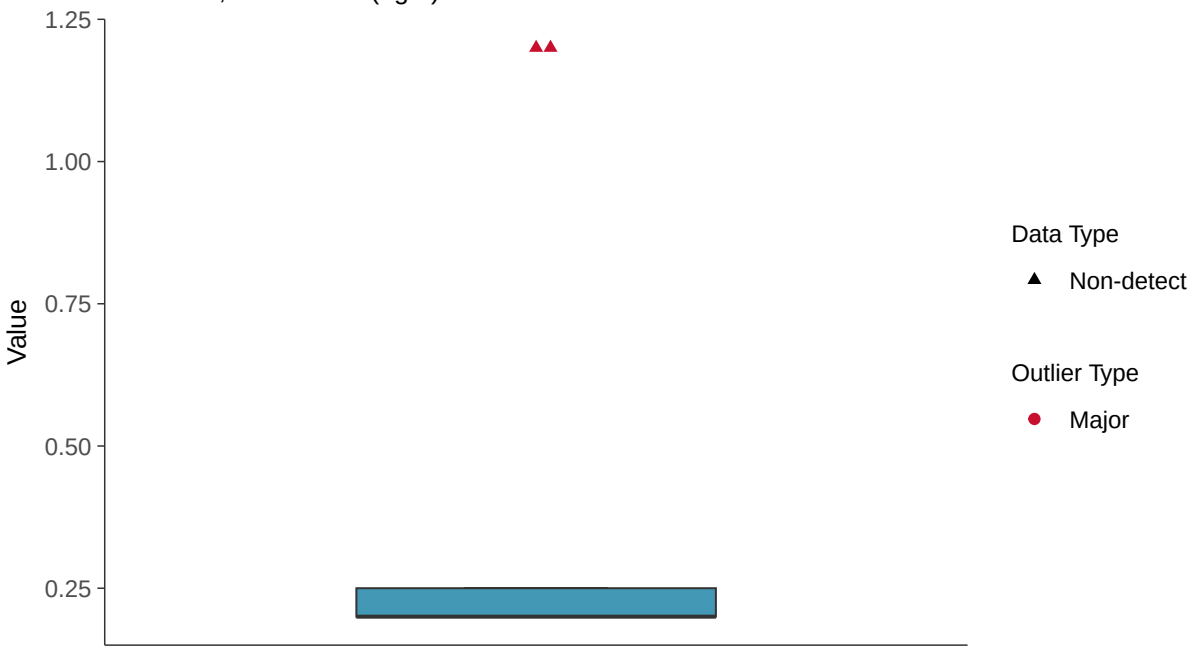
ID: 07_2_106





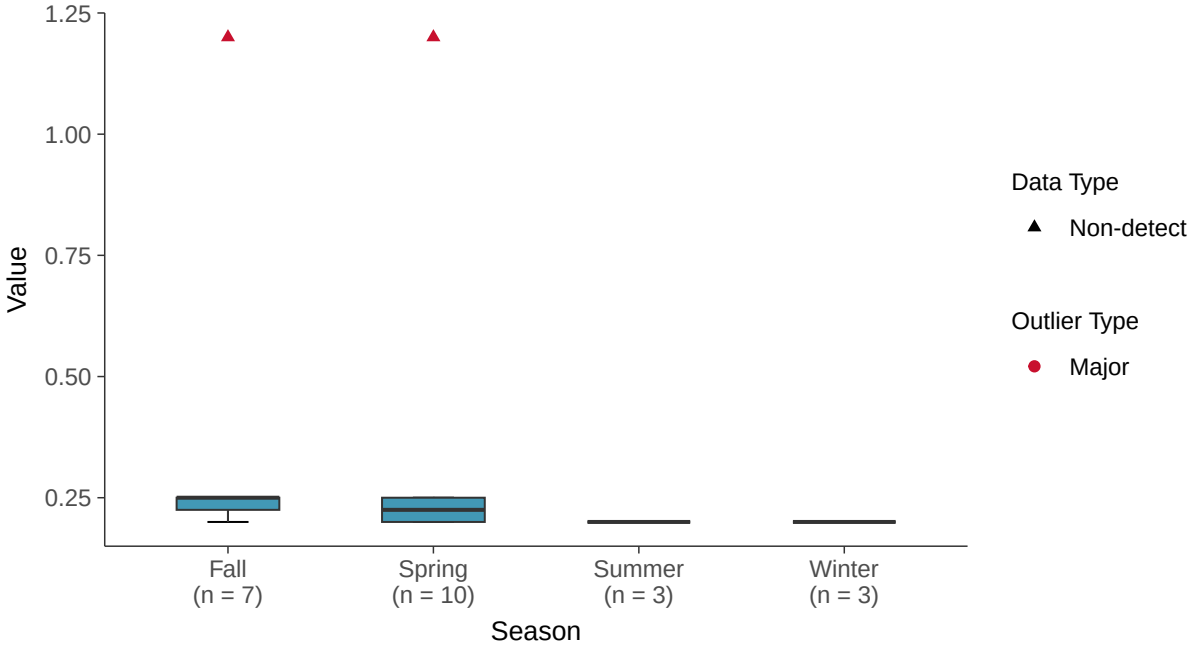
Boxplot

Cadmium, MW-15017 (ug/L)



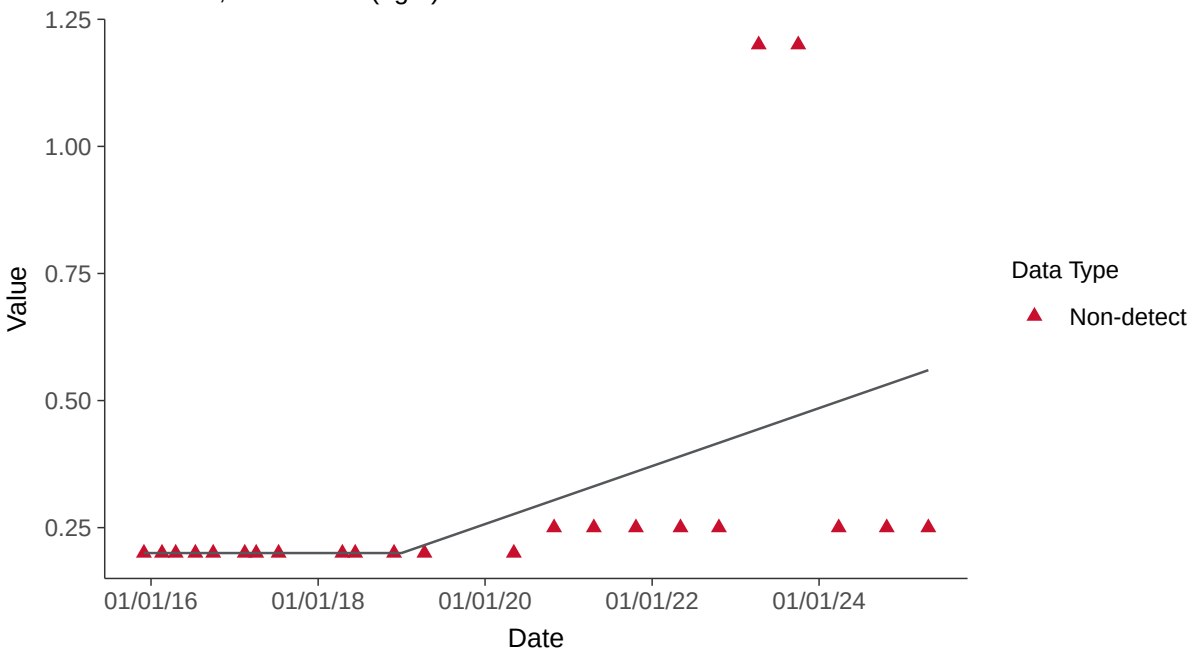
Boxplot by Season

Cadmium, MW-15017 (ug/L)



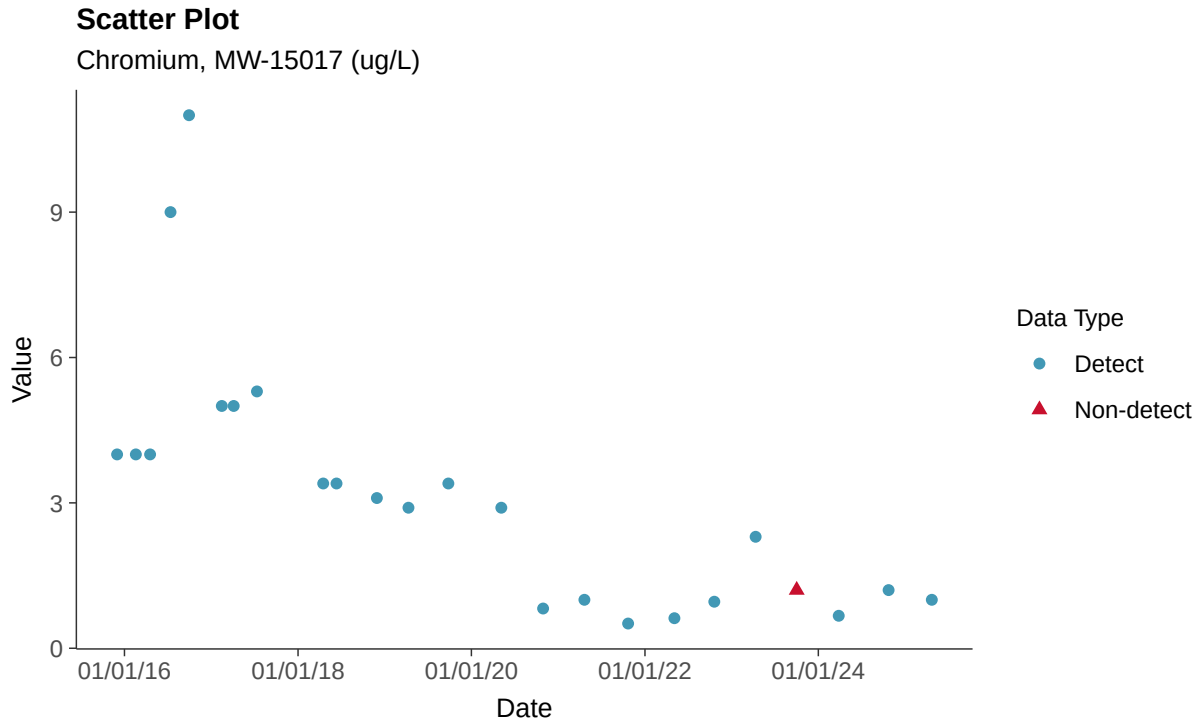
Trend Regression: Piecewise Linear-Linear

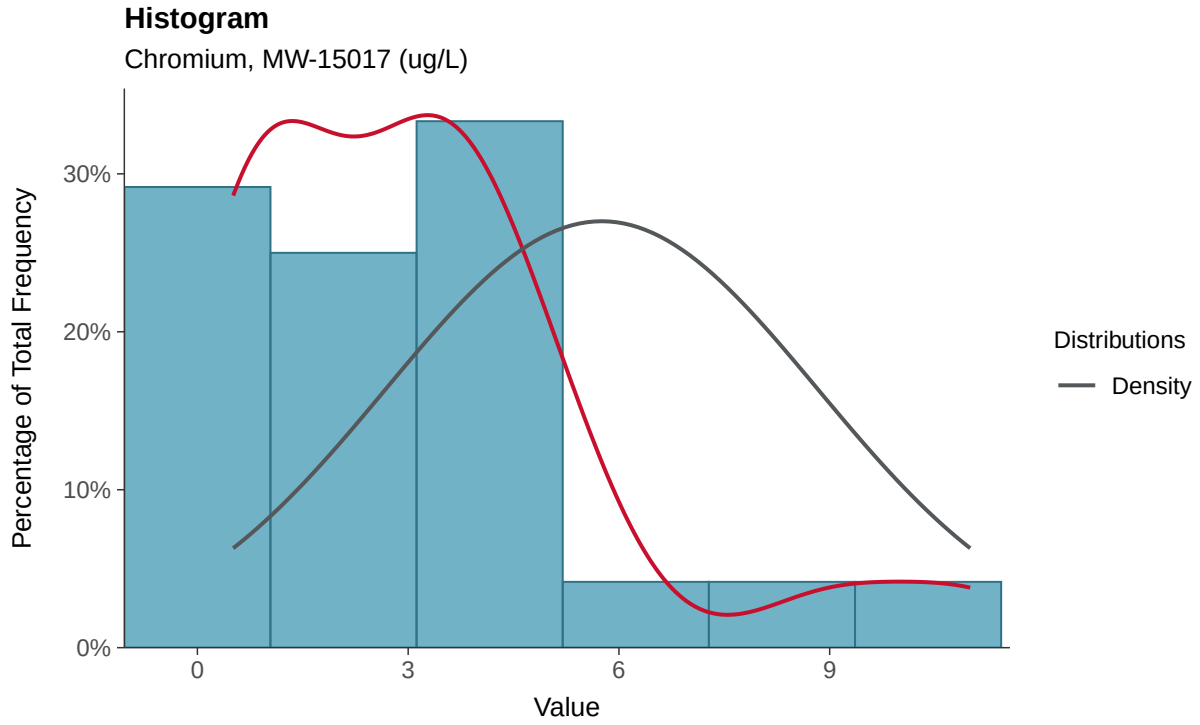
Cadmium, MW-15017 (ug/L)



Appendix IV: Chromium, MW-15017

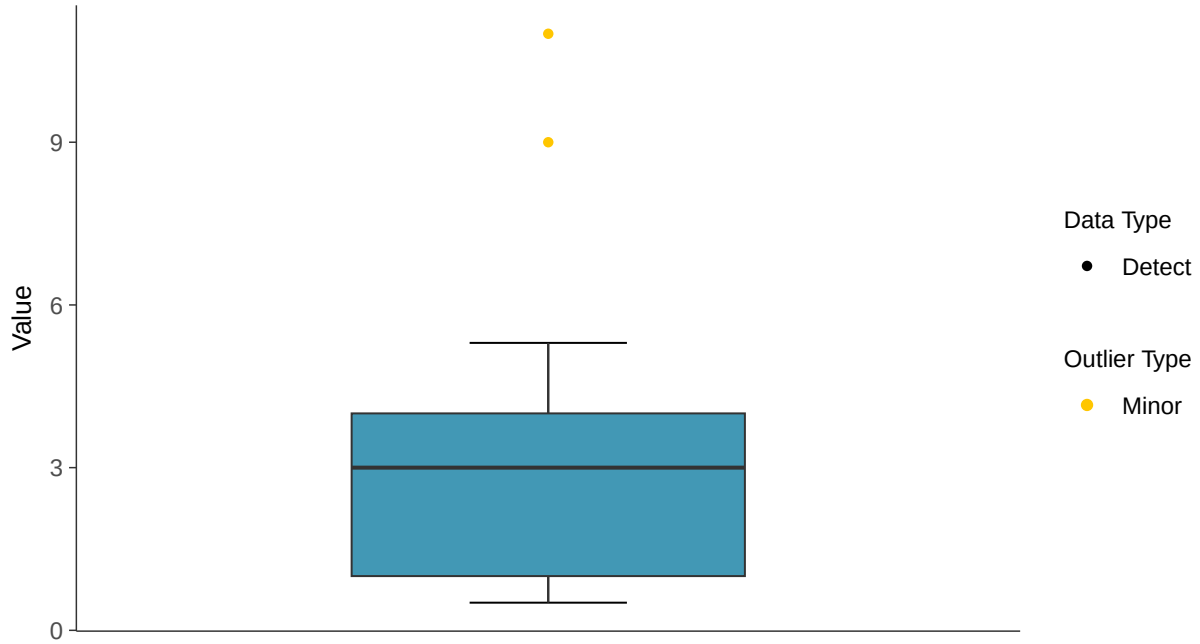
ID: 07_2_109





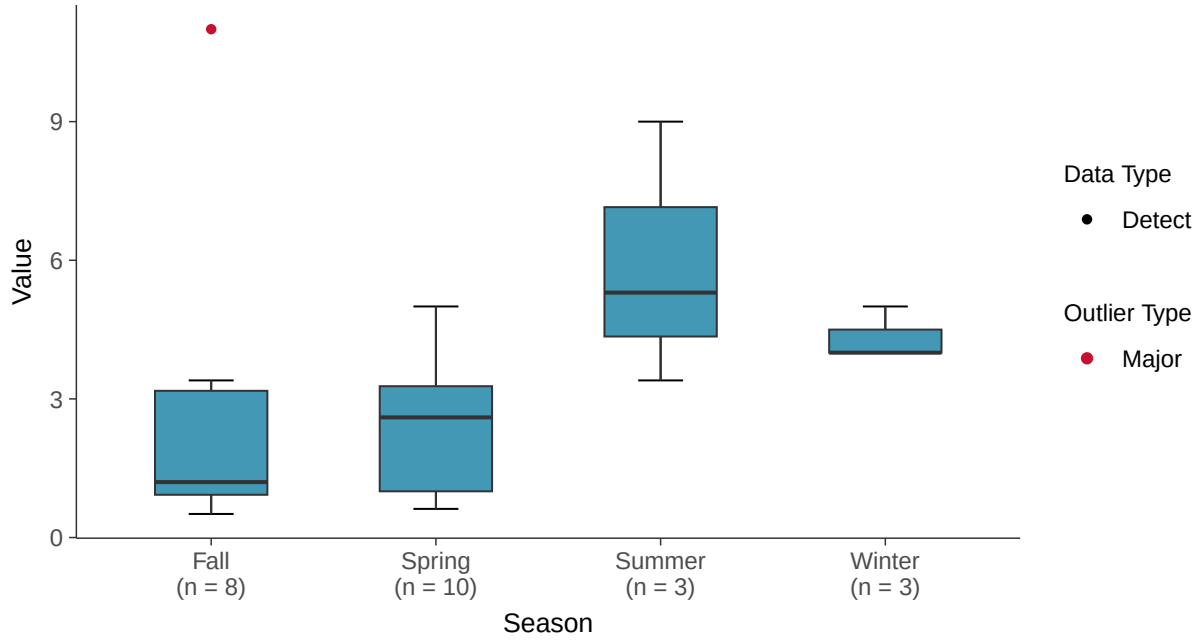
Boxplot

Chromium, MW-15017 (ug/L)



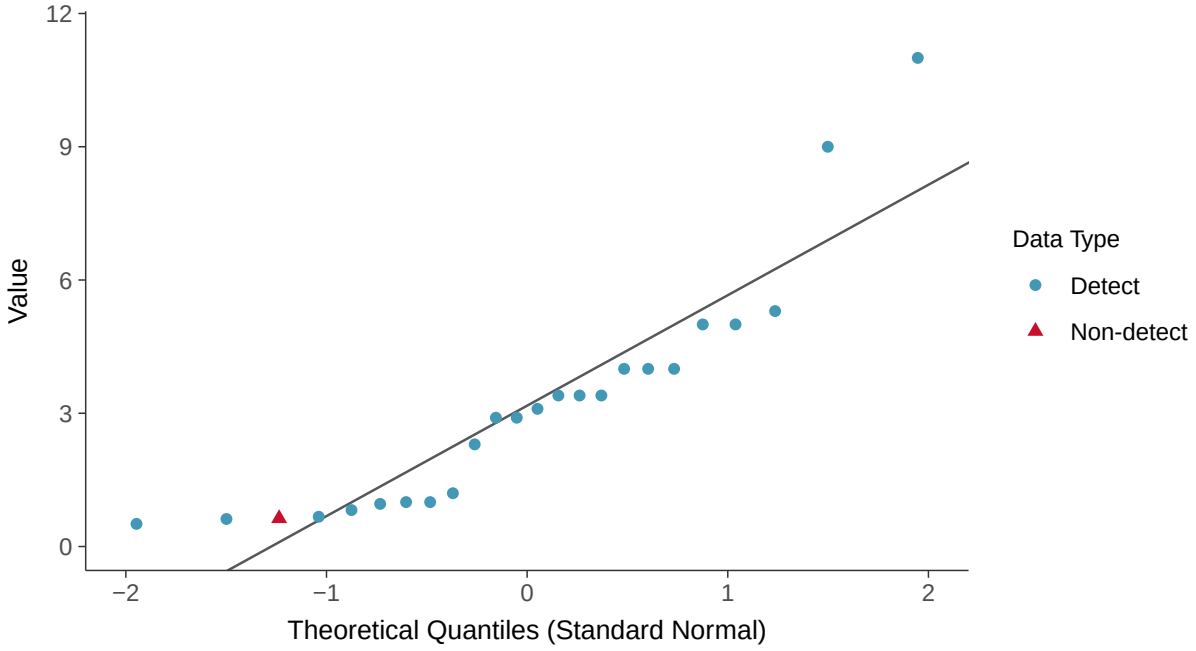
Boxplot by Season

Chromium, MW-15017 (ug/L)



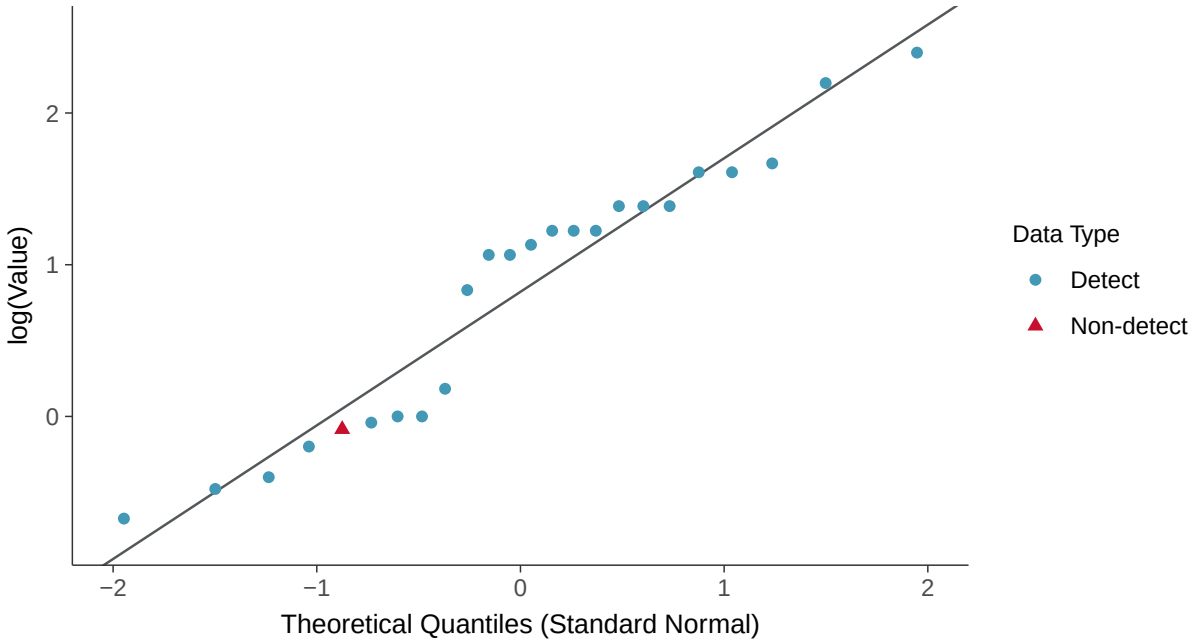
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15017 (ug/L)



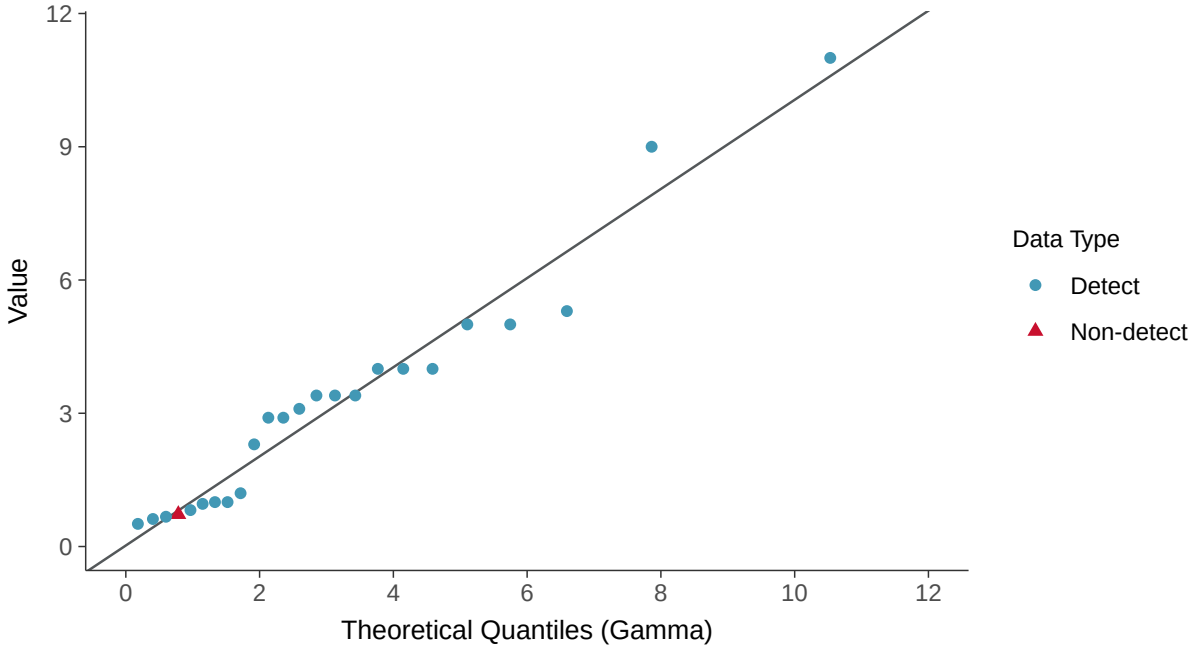
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15017 (ug/L)



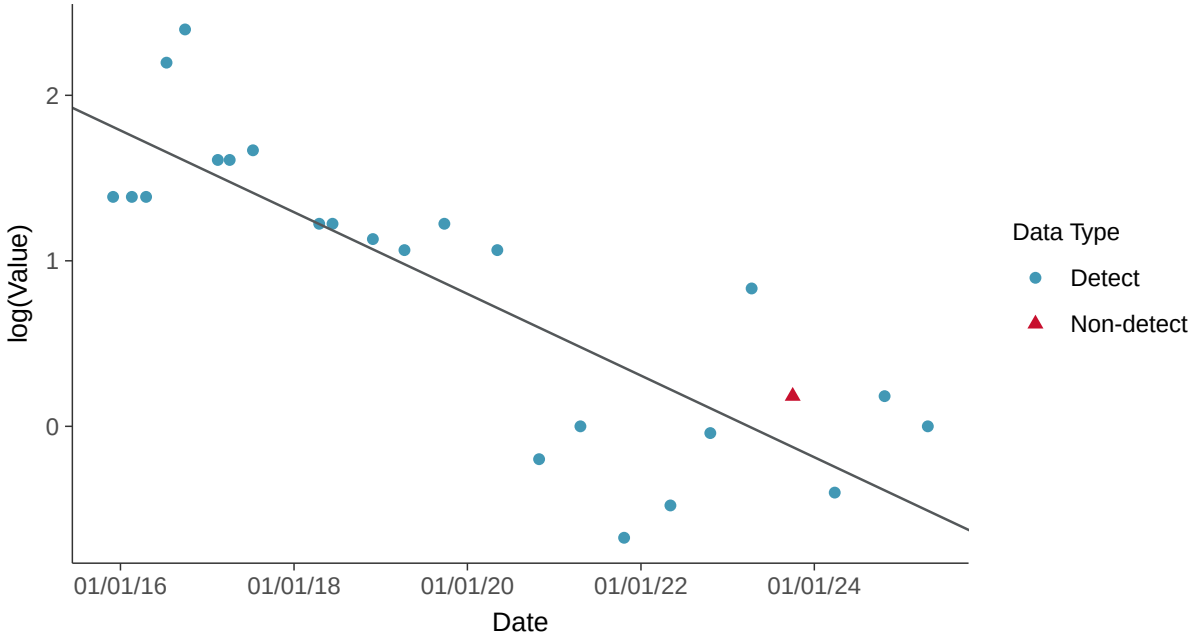
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, MW-15017 (ug/L)



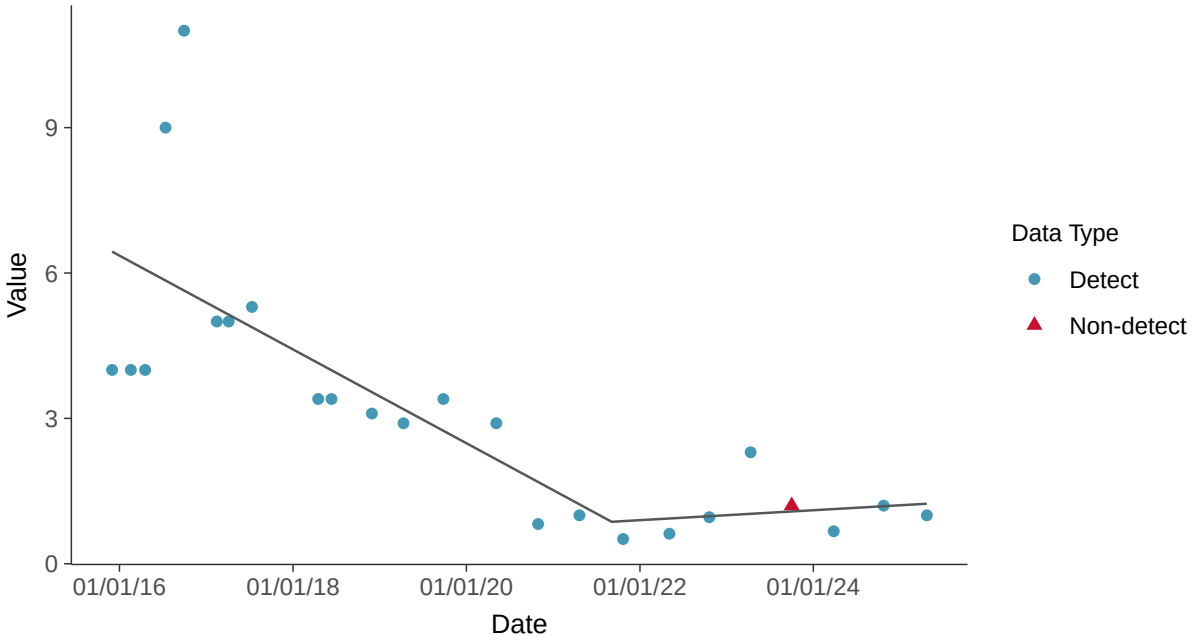
Trend Regression: Lognormal MLE

Chromium, MW-15017 (ug/L)



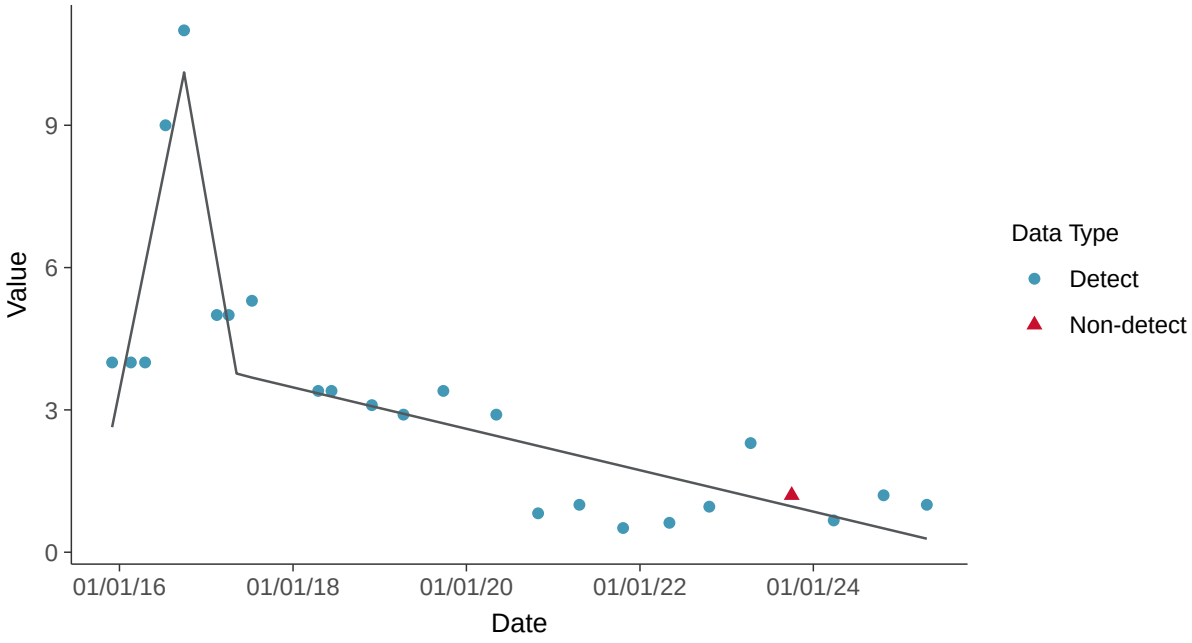
Trend Regression: Piecewise Linear-Linear

Chromium, MW-15017 (ug/L)



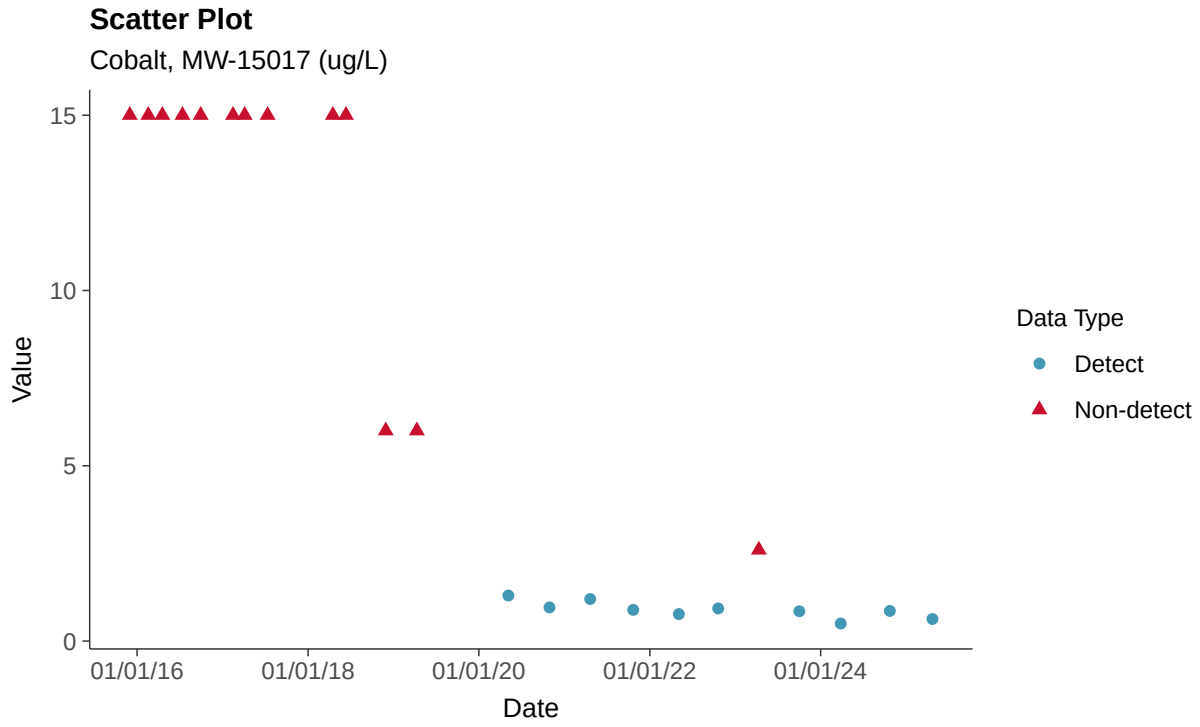
Trend Regression: Piecewise Linear-Linear-Linear

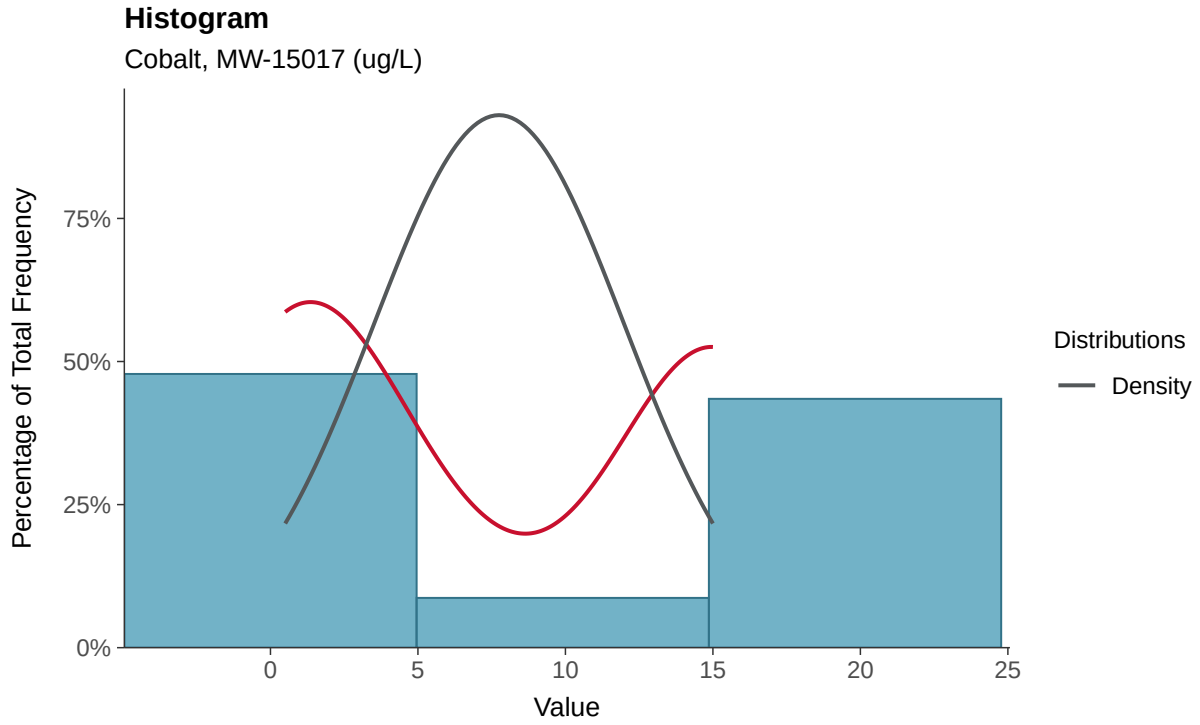
Chromium, MW-15017 (ug/L)



Appendix IV: Cobalt, MW-15017

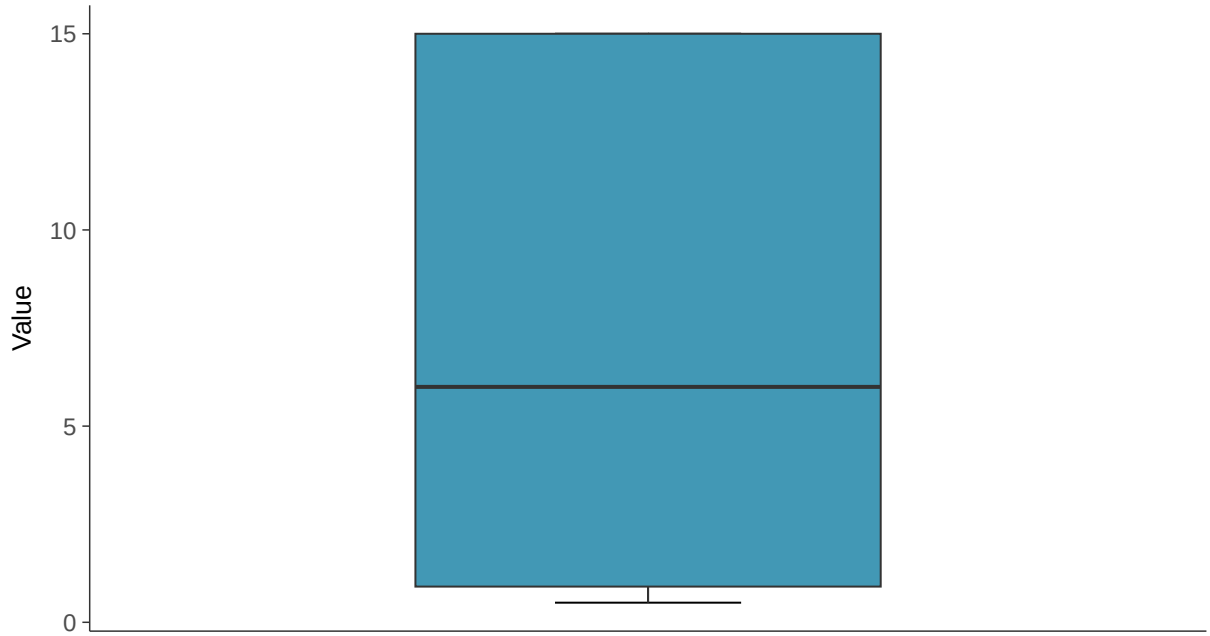
ID: 07_2_110





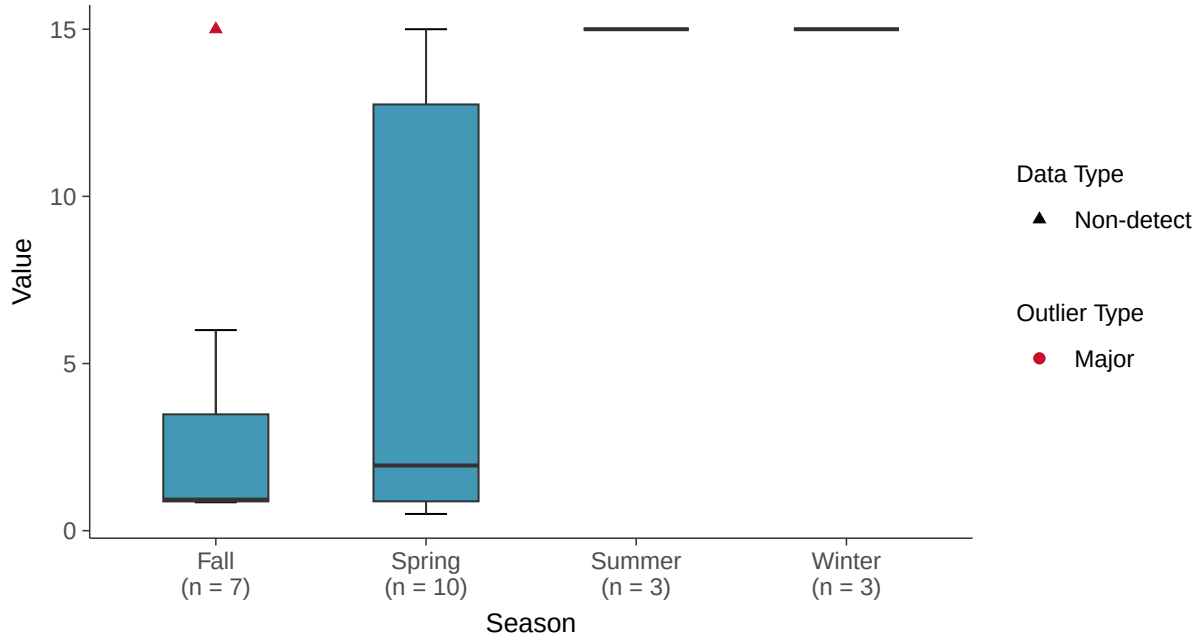
Boxplot

Cobalt, MW-15017 (ug/L)



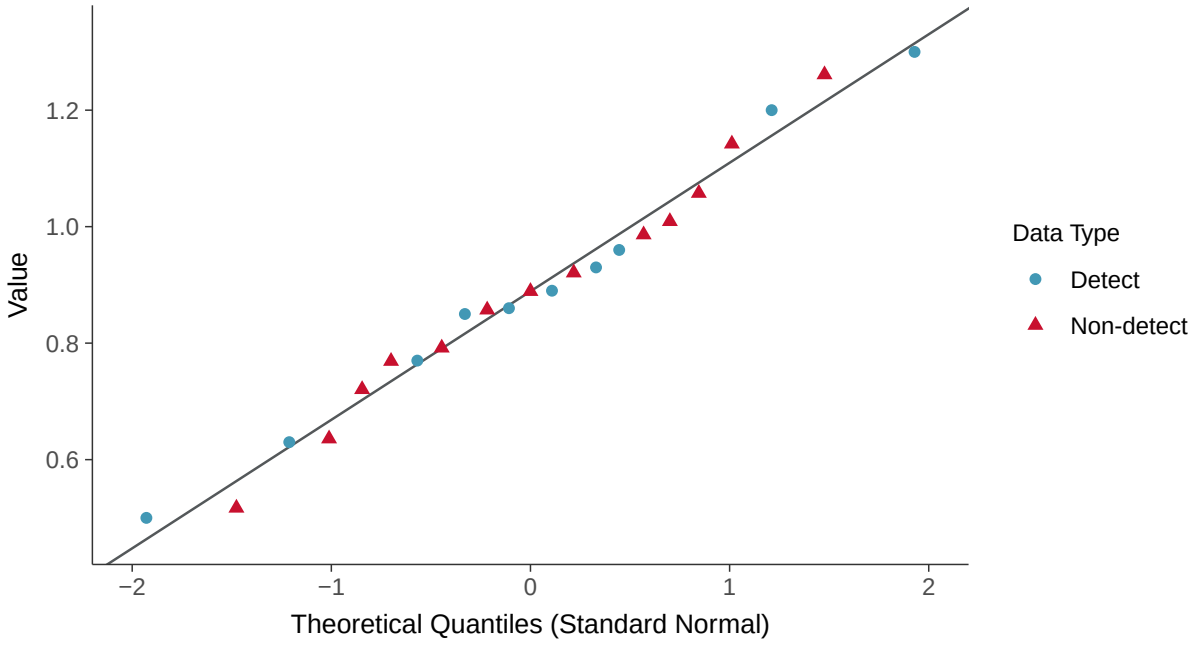
Boxplot by Season

Cobalt, MW-15017 (ug/L)



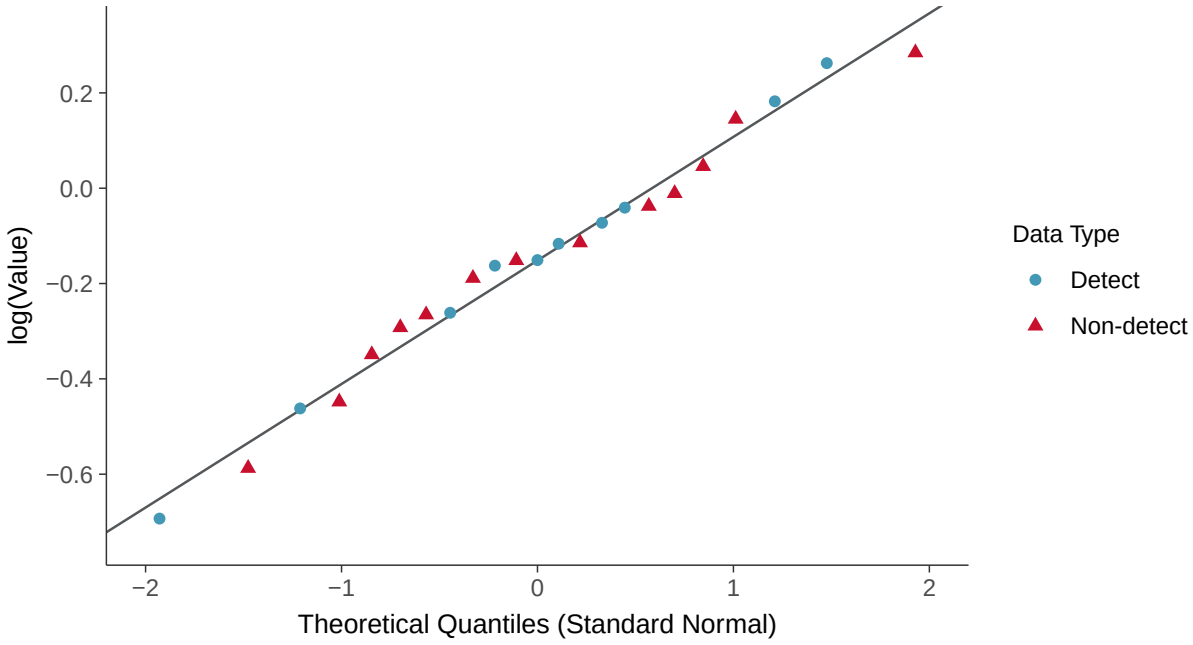
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15017 (ug/L)



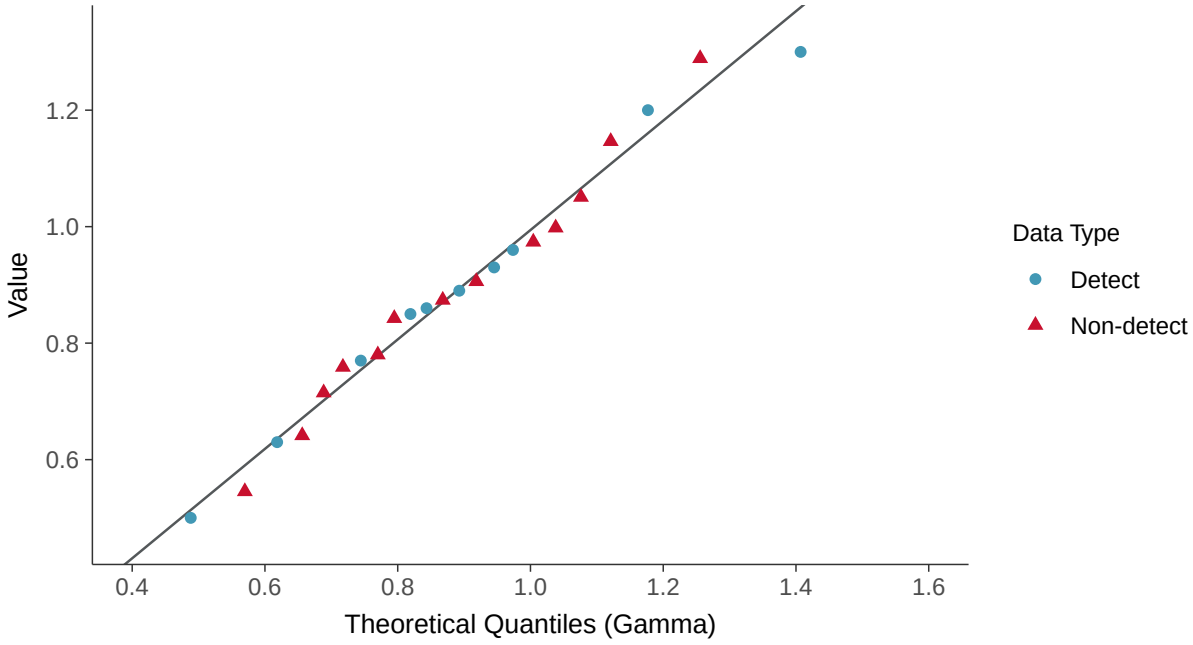
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15017 (ug/L)



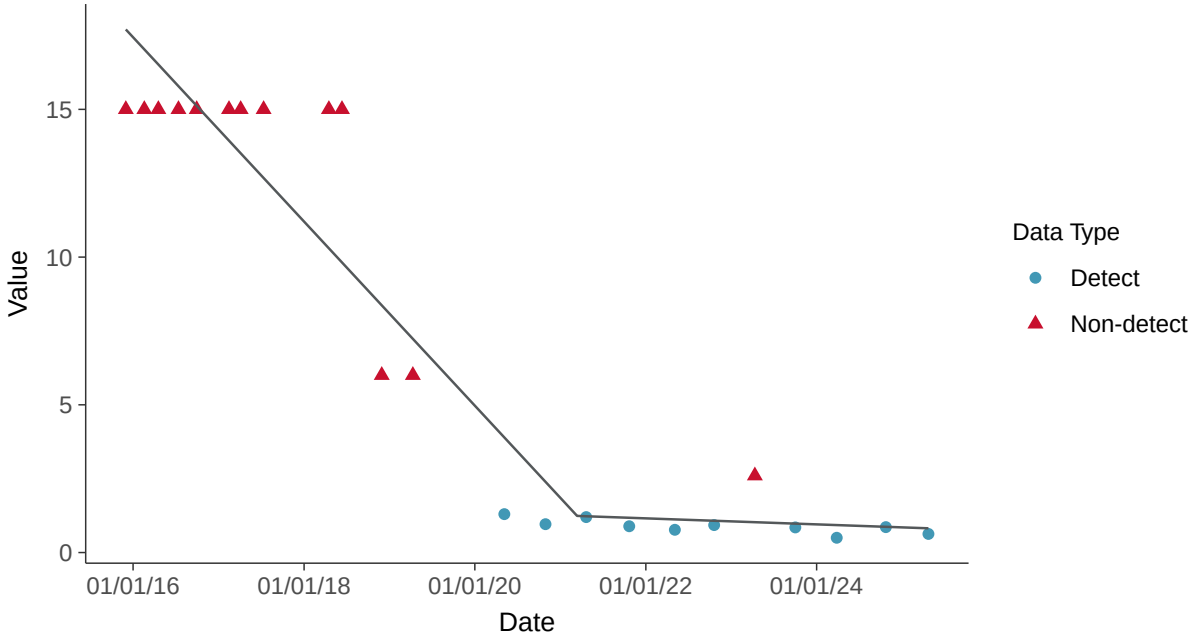
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15017 (ug/L)



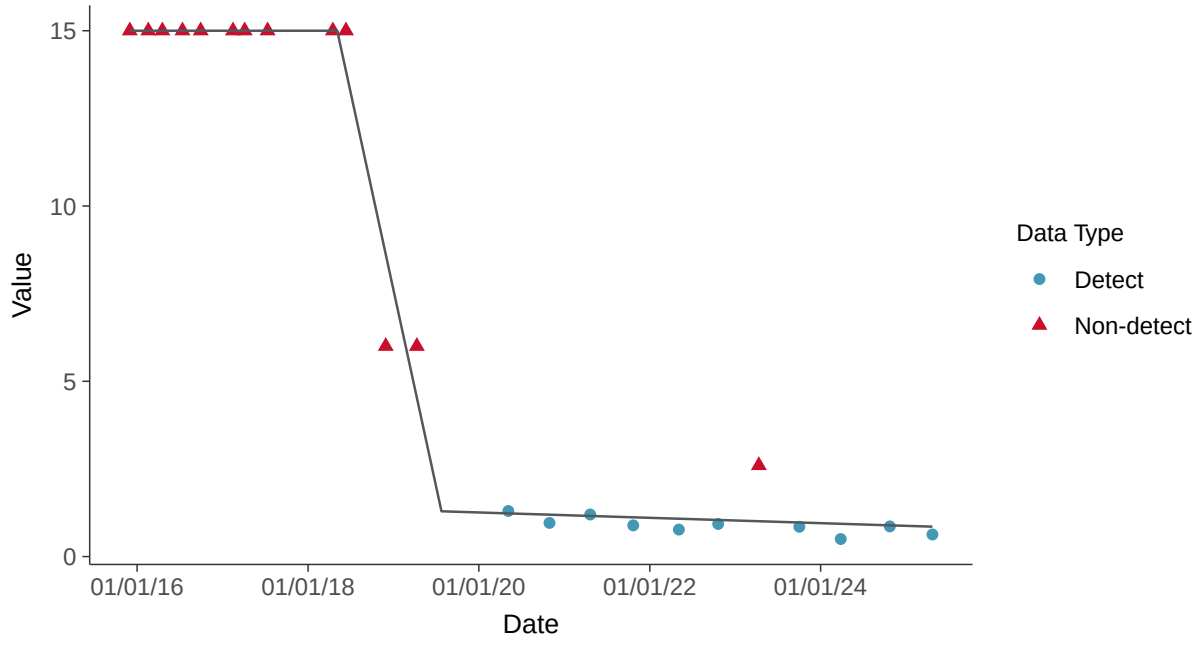
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15017 (ug/L)



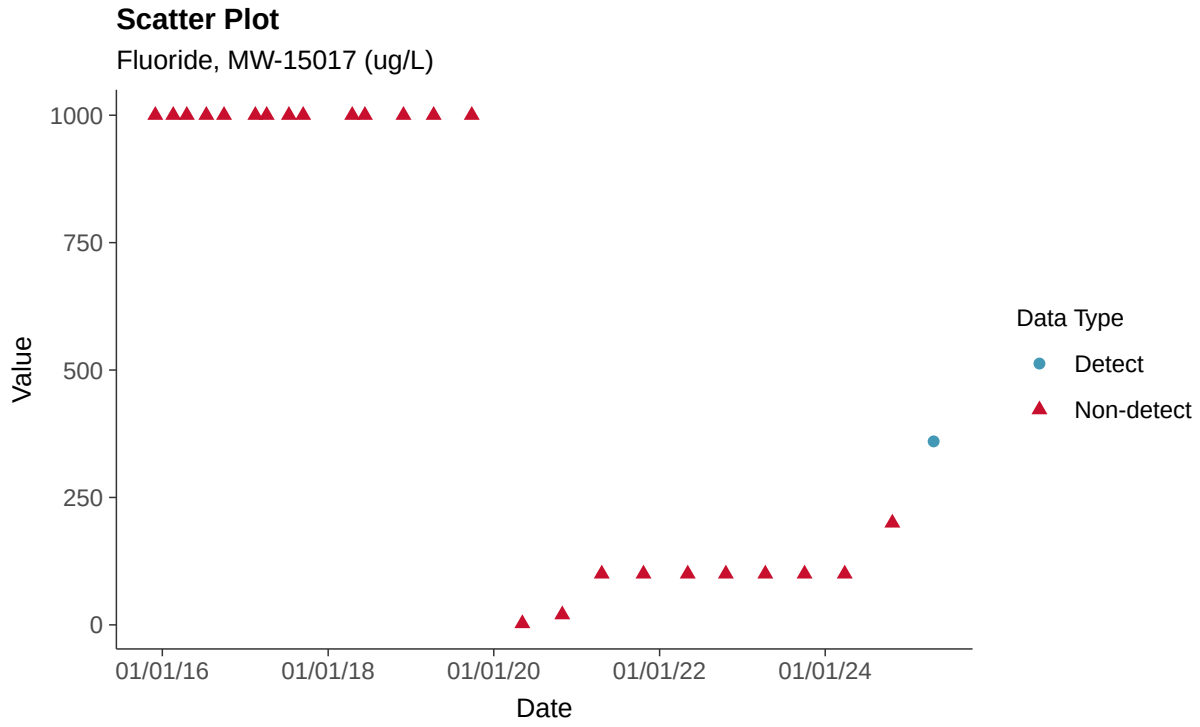
Trend Regression: Piecewise Linear-Linear-Linear

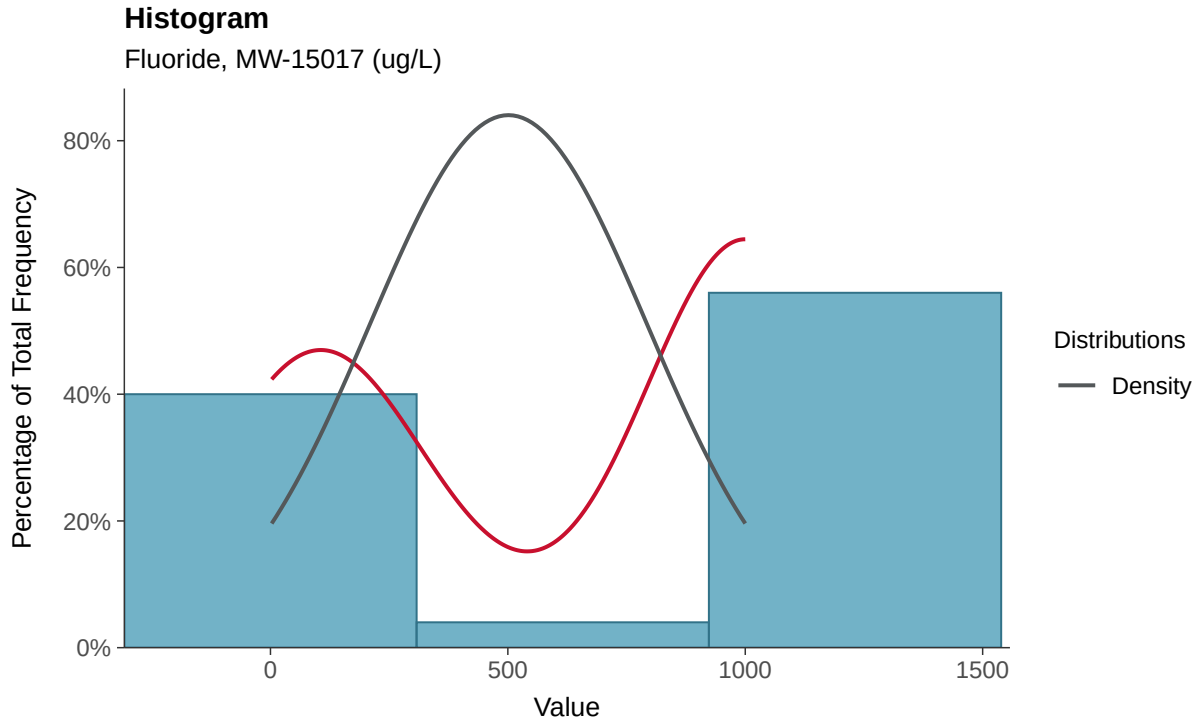
Cobalt, MW-15017 (ug/L)



Appendix IV: Fluoride, MW-15017

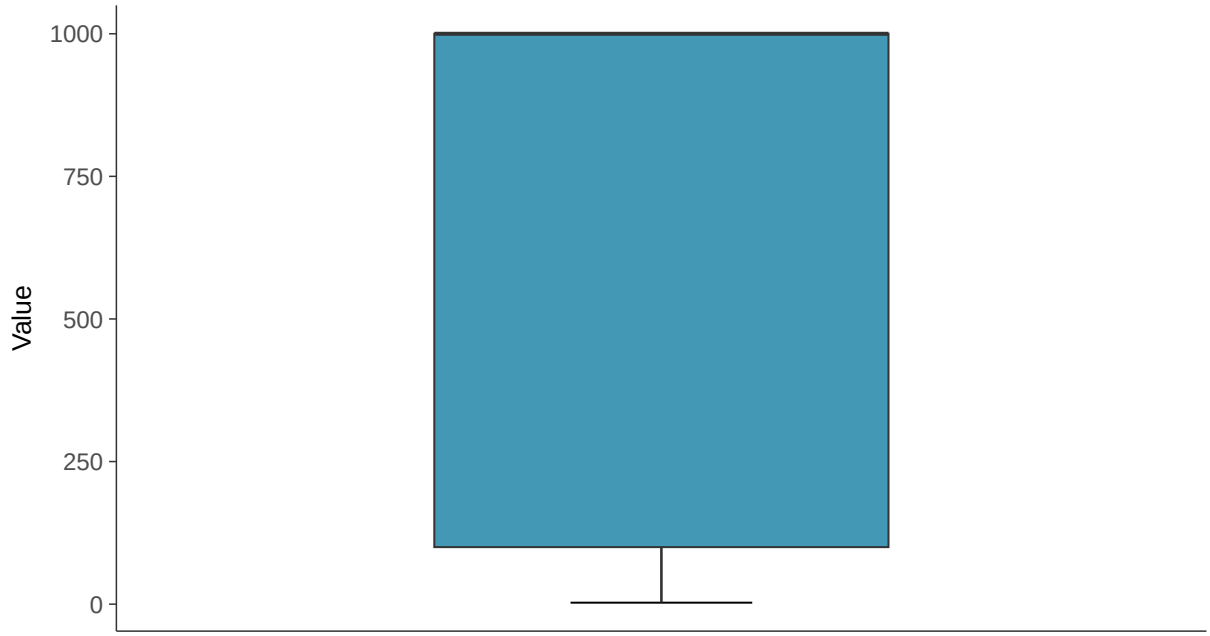
ID: 07_2_114





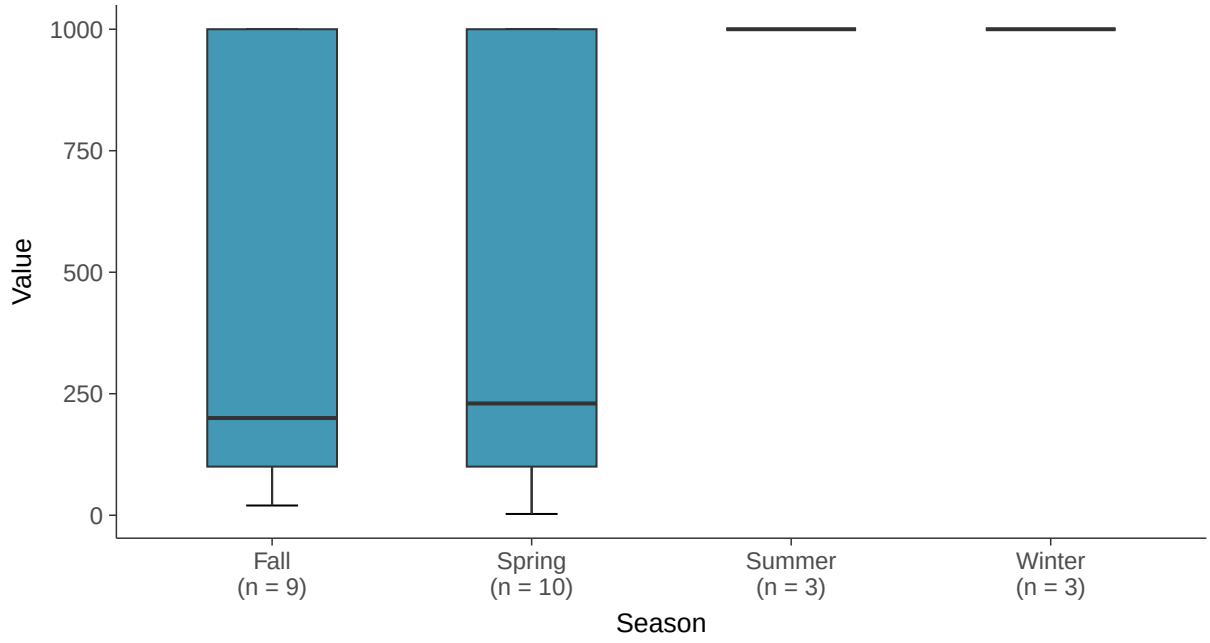
Boxplot

Fluoride, MW-15017 (ug/L)



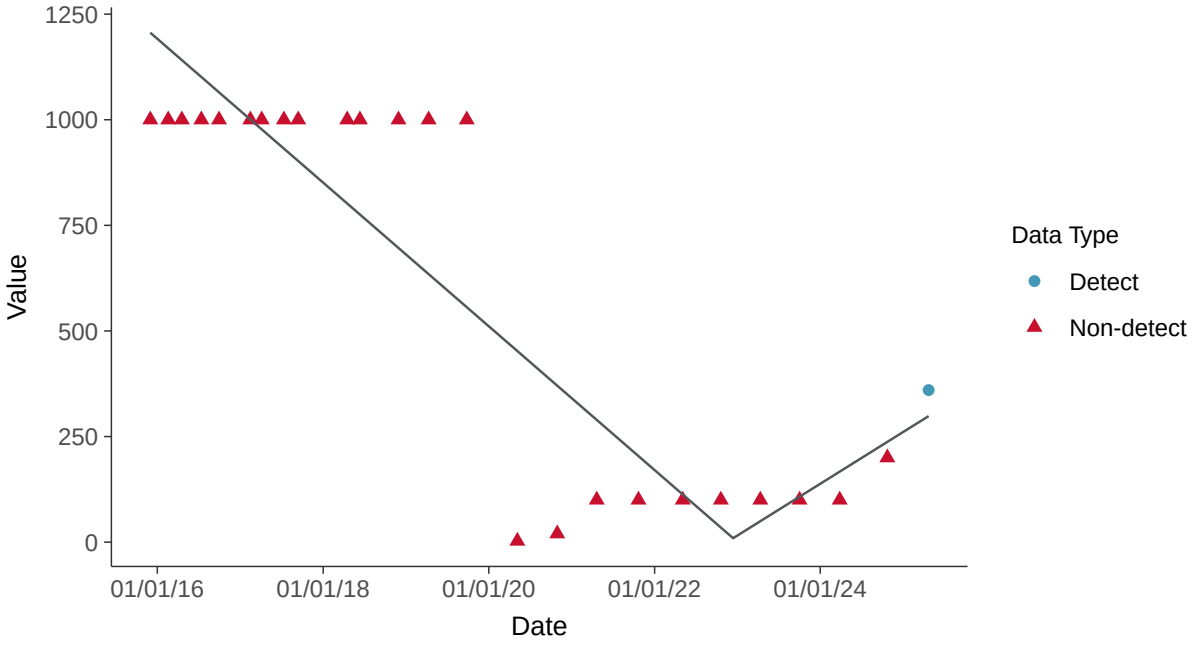
Boxplot by Season

Fluoride, MW-15017 (ug/L)



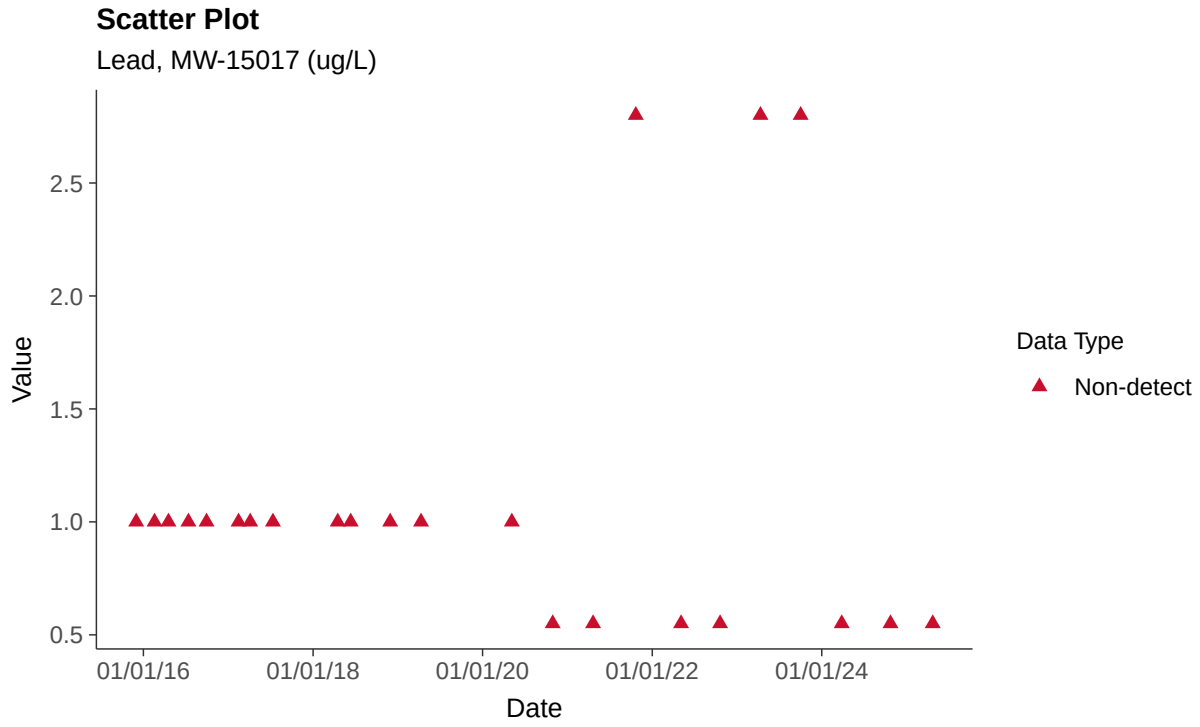
Trend Regression: Piecewise Linear-Linear

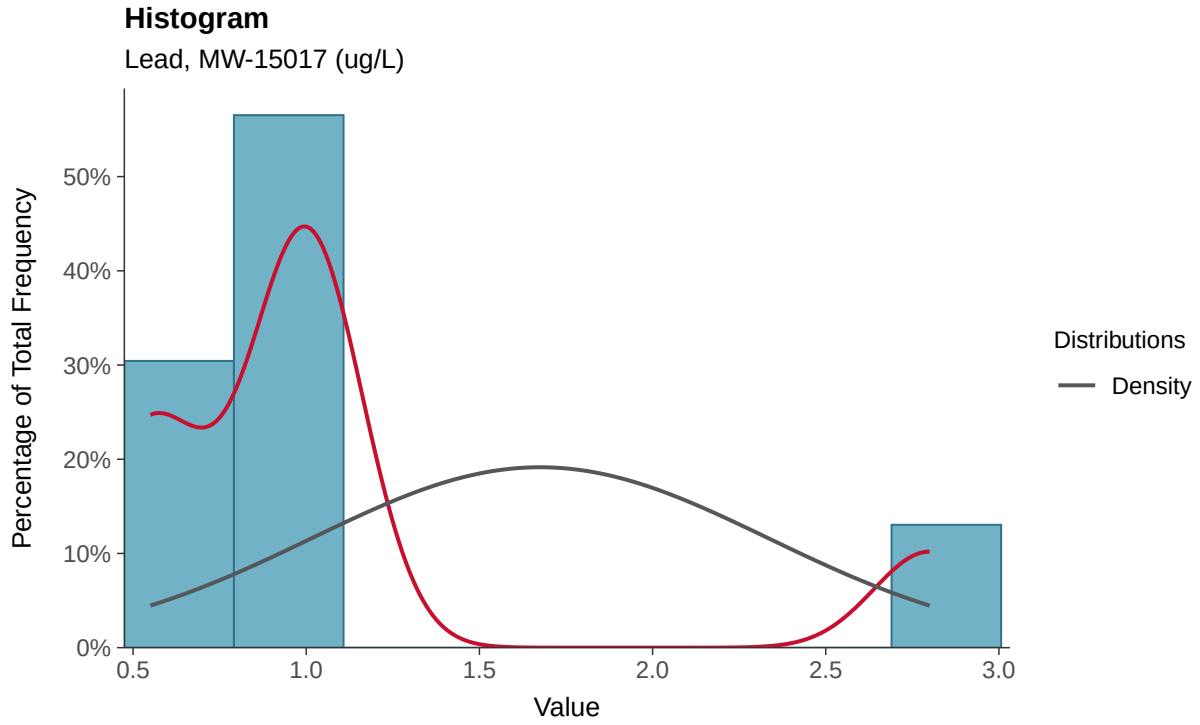
Fluoride, MW-15017 (ug/L)



Appendix IV: Lead, MW-15017

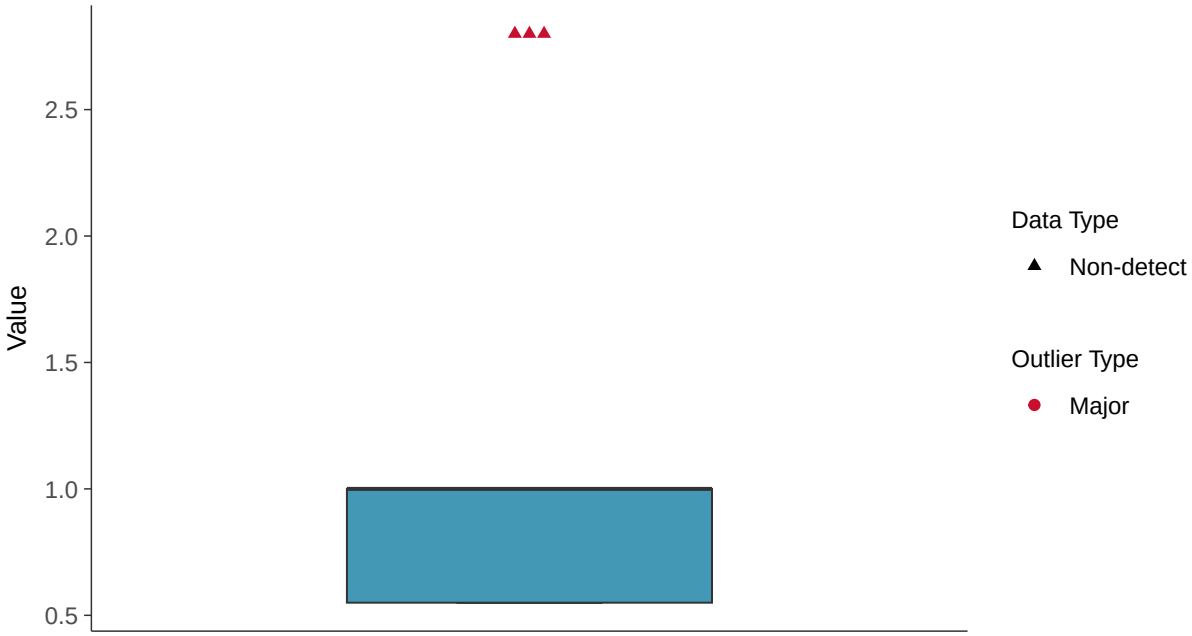
ID: 07_2_116





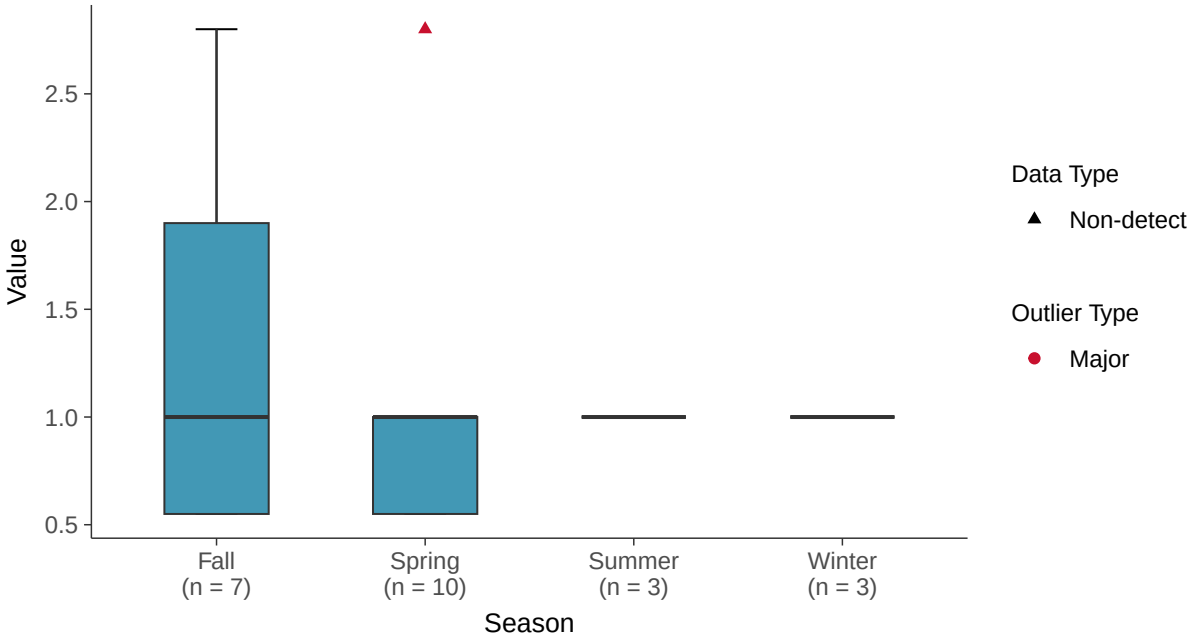
Boxplot

Lead, MW-15017 (ug/L)



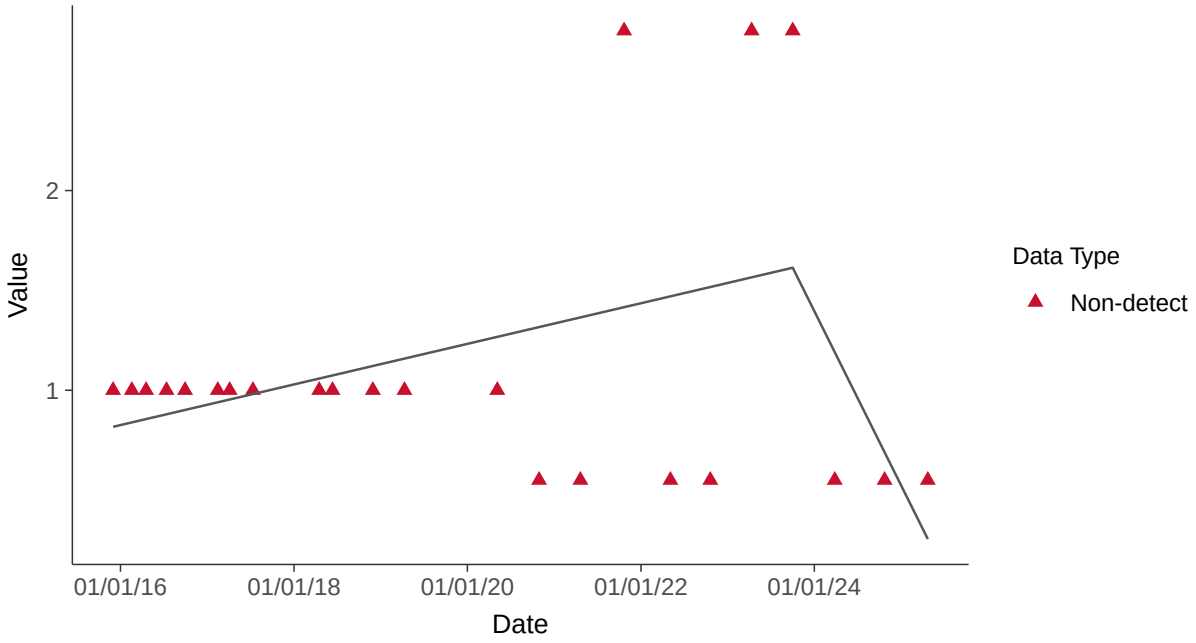
Boxplot by Season

Lead, MW-15017 (ug/L)



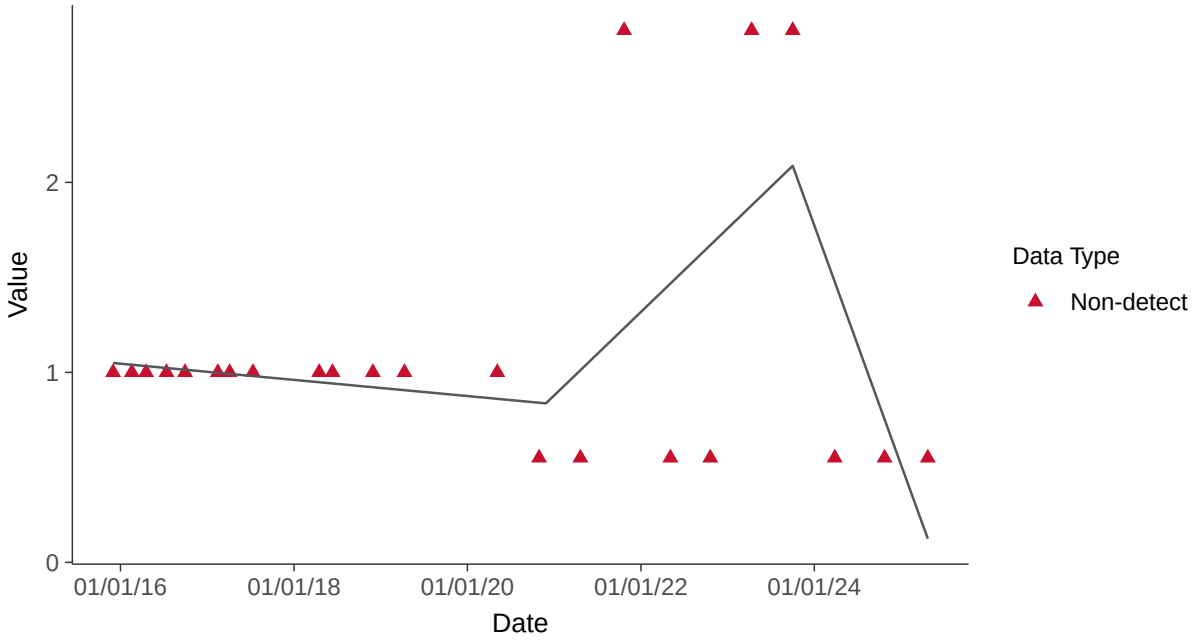
Trend Regression: Piecewise Linear-Linear

Lead, MW-15017 (ug/L)



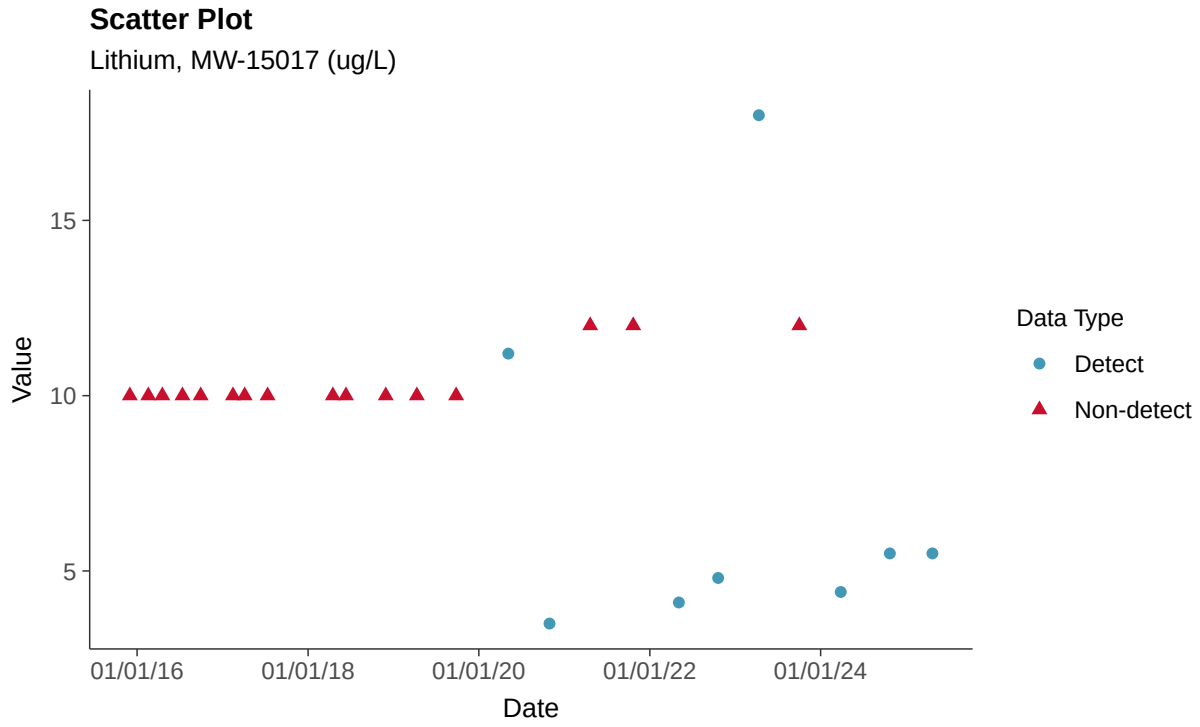
Trend Regression: Piecewise Linear-Linear-Linear

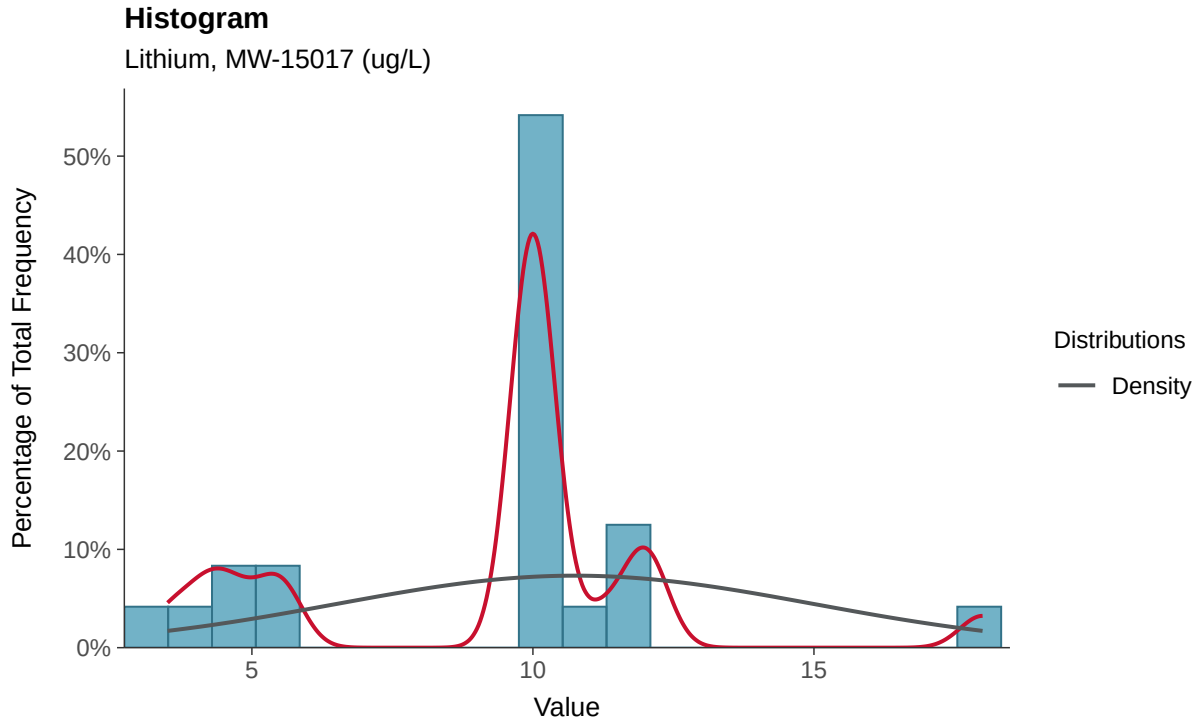
Lead, MW-15017 (ug/L)



Appendix IV: Lithium, MW-15017

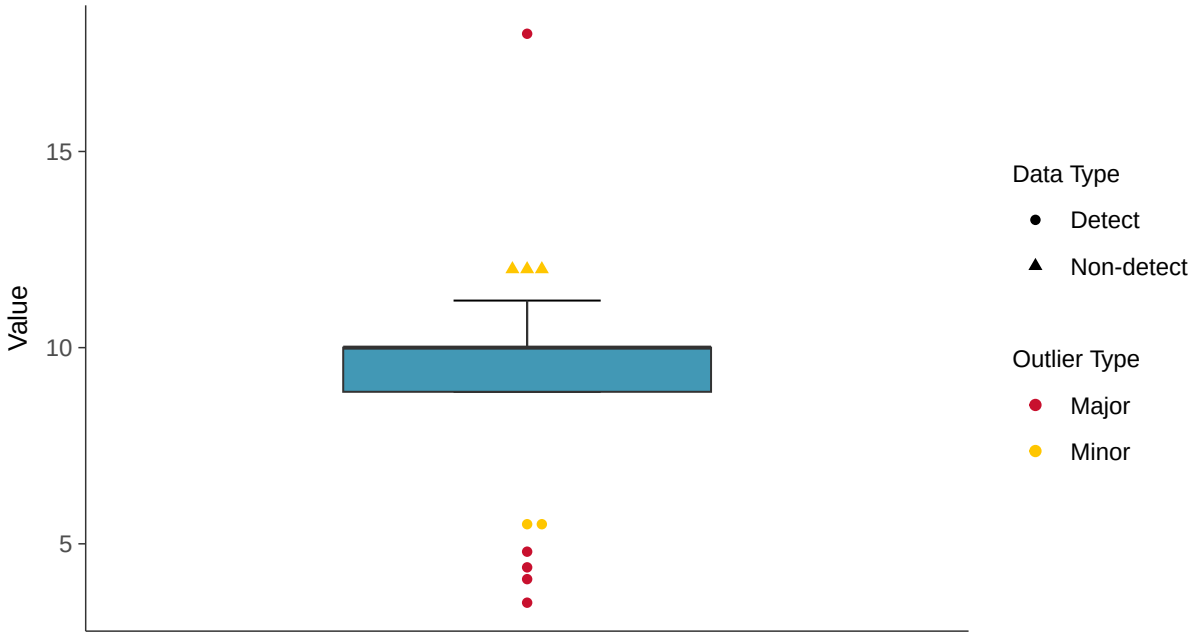
ID: 07_2_117





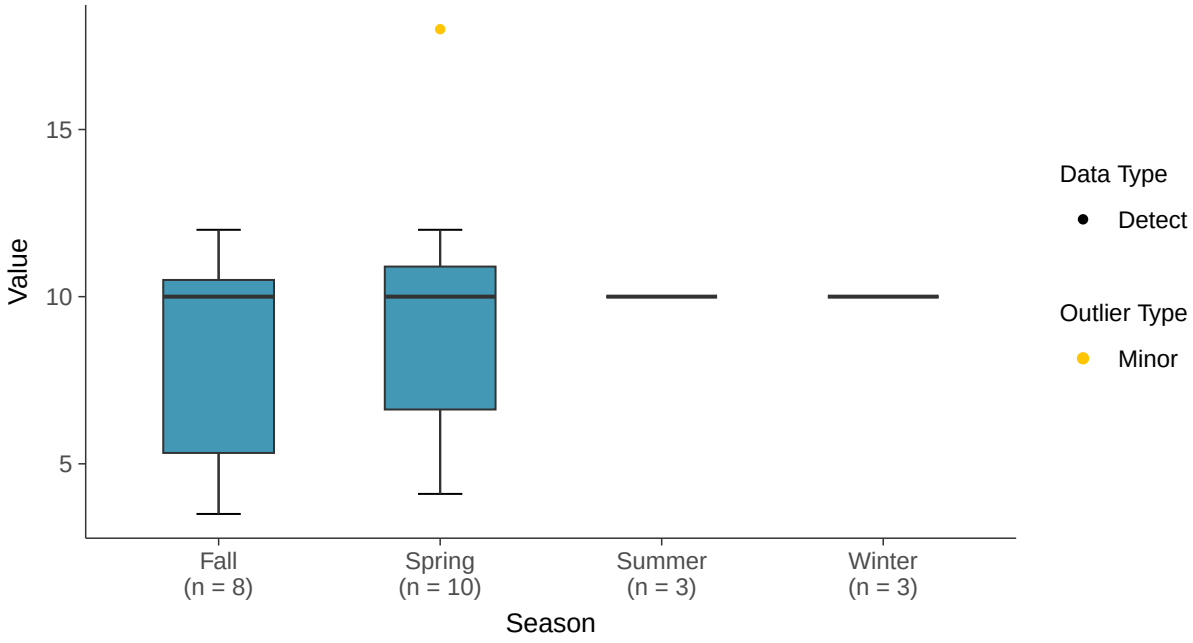
Boxplot

Lithium, MW-15017 (ug/L)



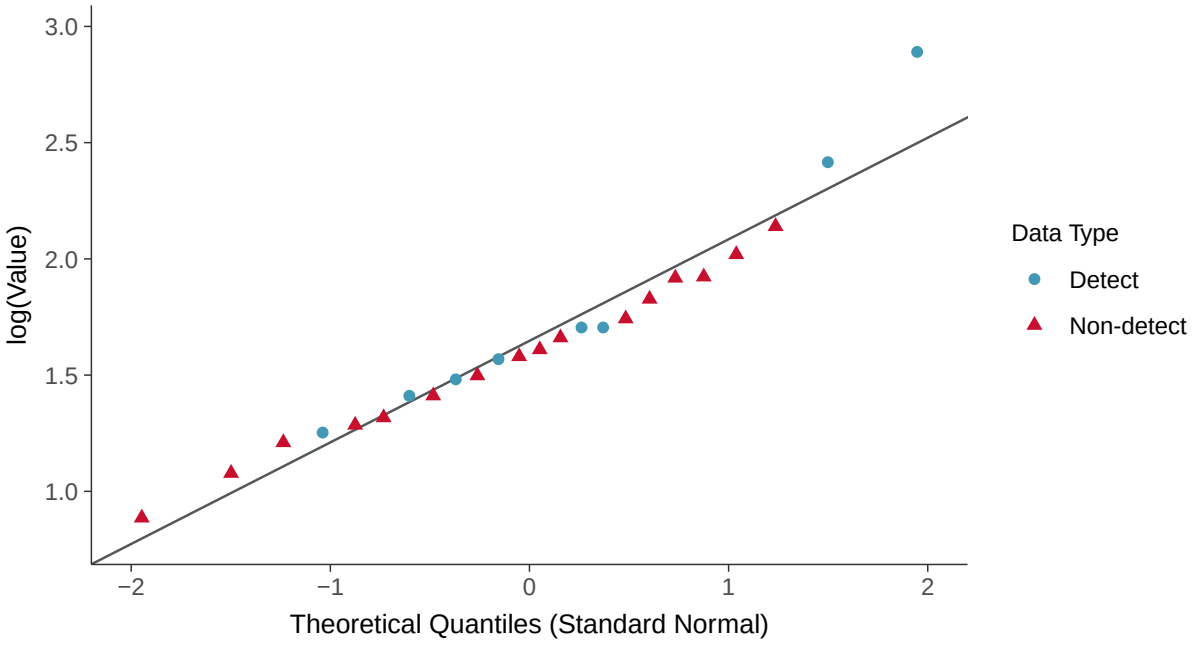
Boxplot by Season

Lithium, MW-15017 (ug/L)



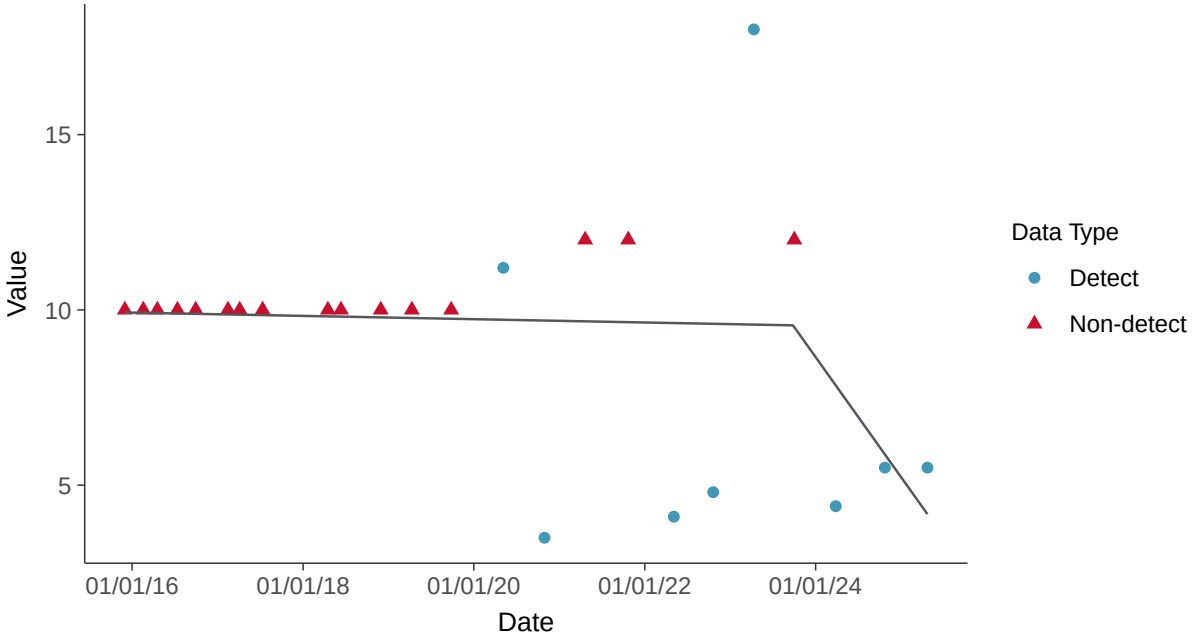
Lognormal Q-Q plot using ROS Imputed Estimates

Lithium, MW-15017 (ug/L)



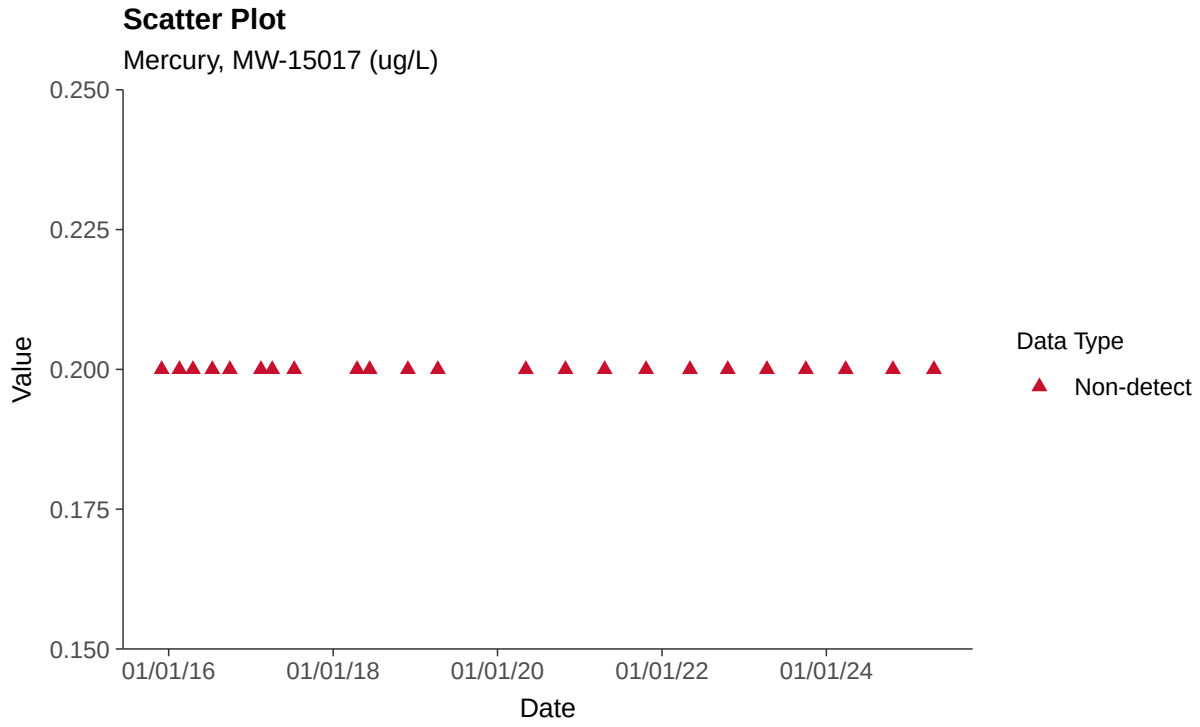
Trend Regression: Piecewise Linear-Linear

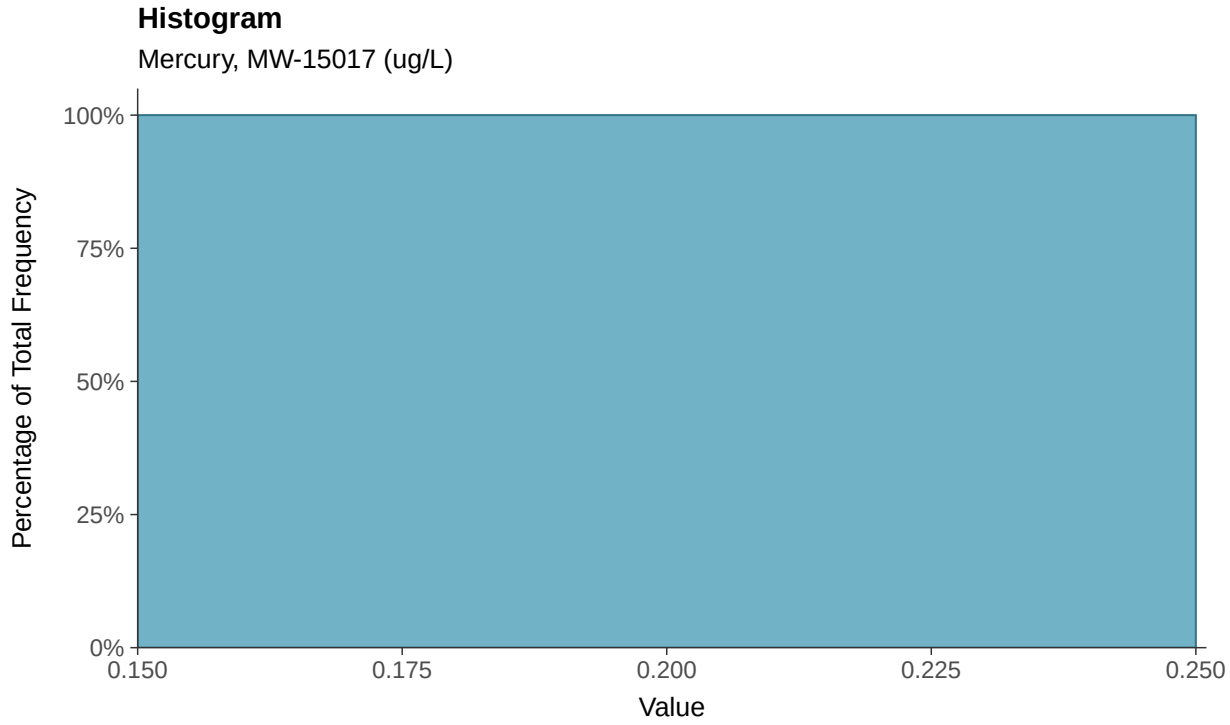
Lithium, MW-15017 (ug/L)



Appendix IV: Mercury, MW-15017

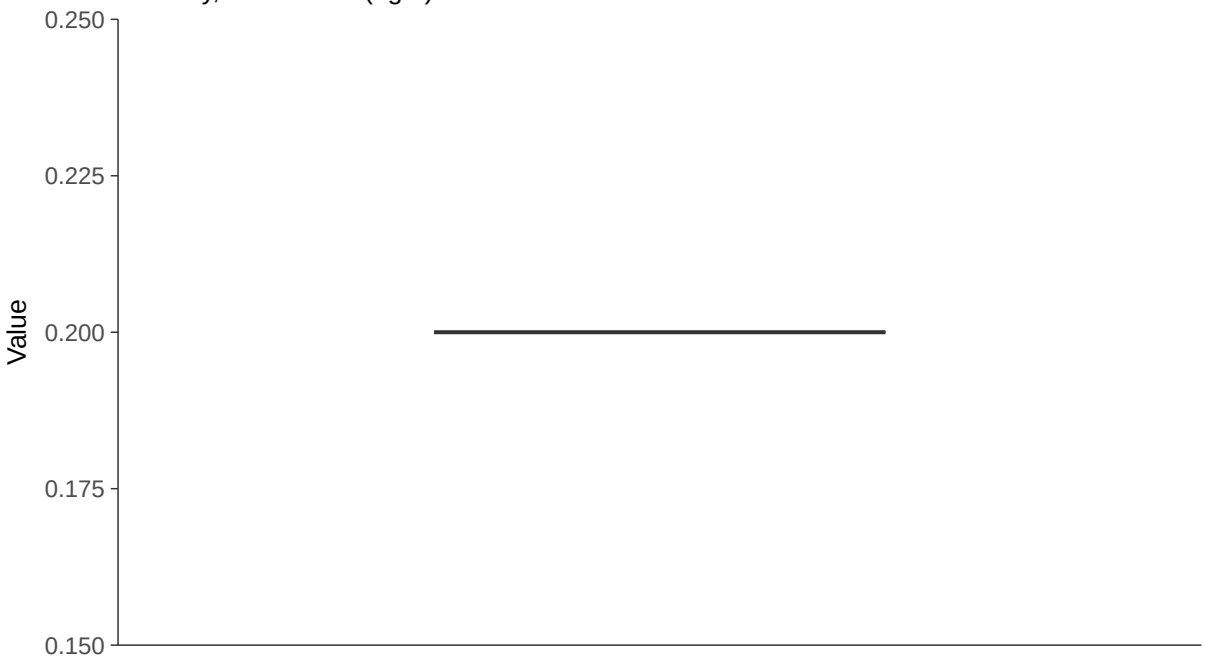
ID: 07_2_118





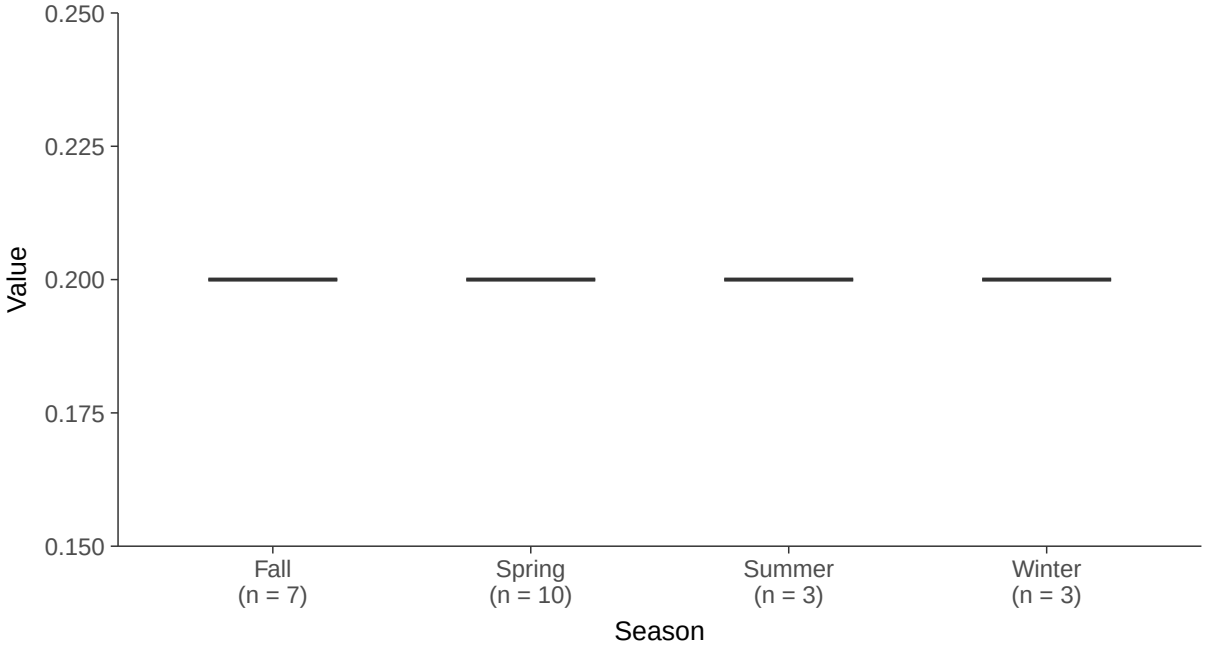
Boxplot

Mercury, MW-15017 (ug/L)



Boxplot by Season

Mercury, MW-15017 (ug/L)

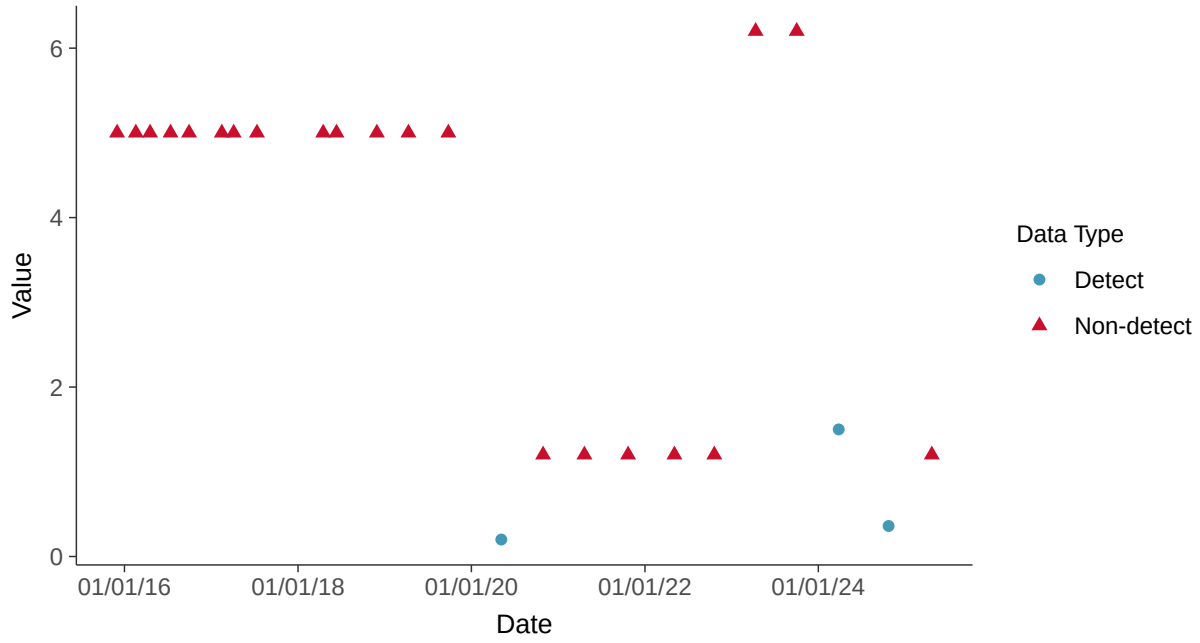


Appendix IV: Molybdenum, MW-15017

ID: 07_2_119

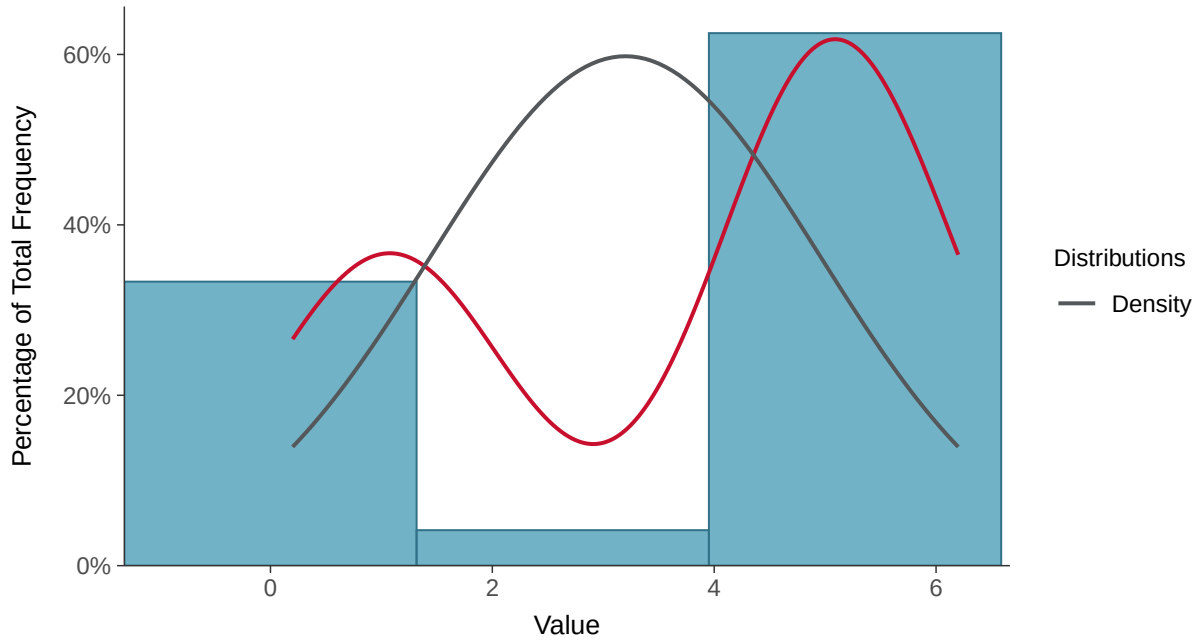
Scatter Plot

Molybdenum, MW-15017 (ug/L)



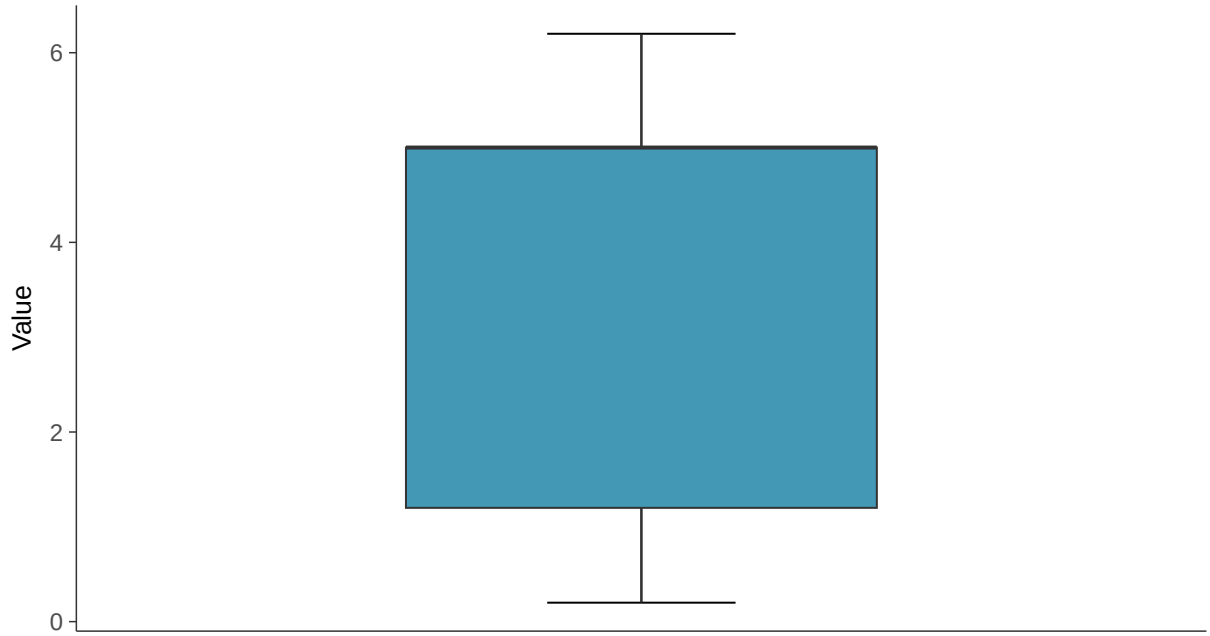
Histogram

Molybdenum, MW-15017 (ug/L)



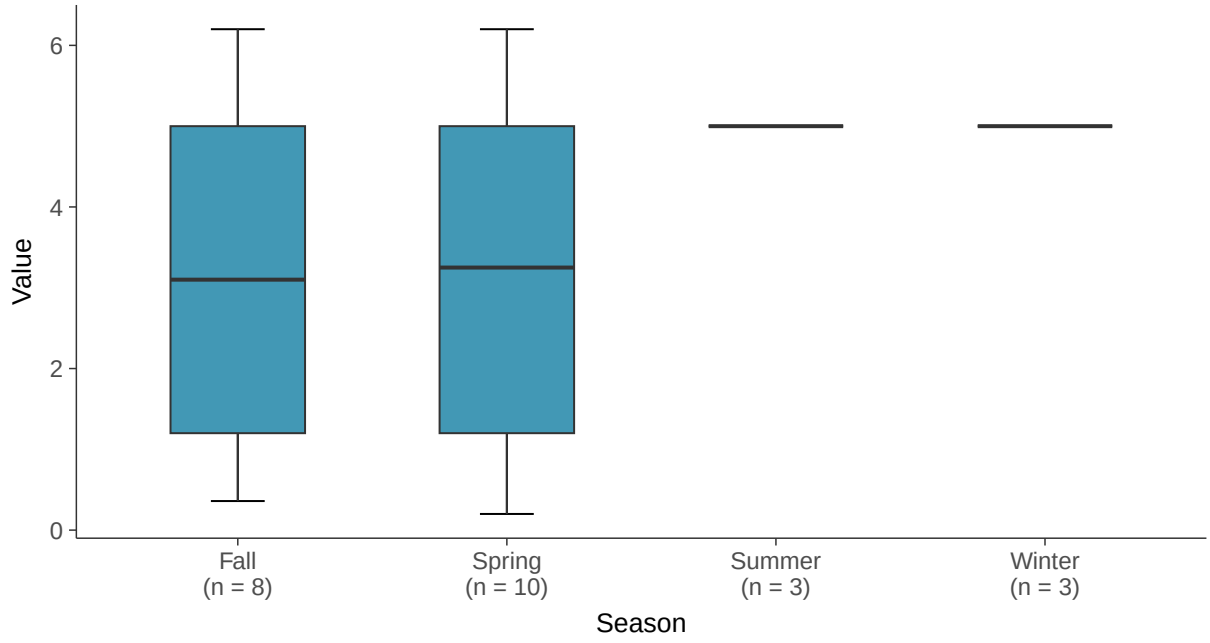
Boxplot

Molybdenum, MW-15017 (ug/L)



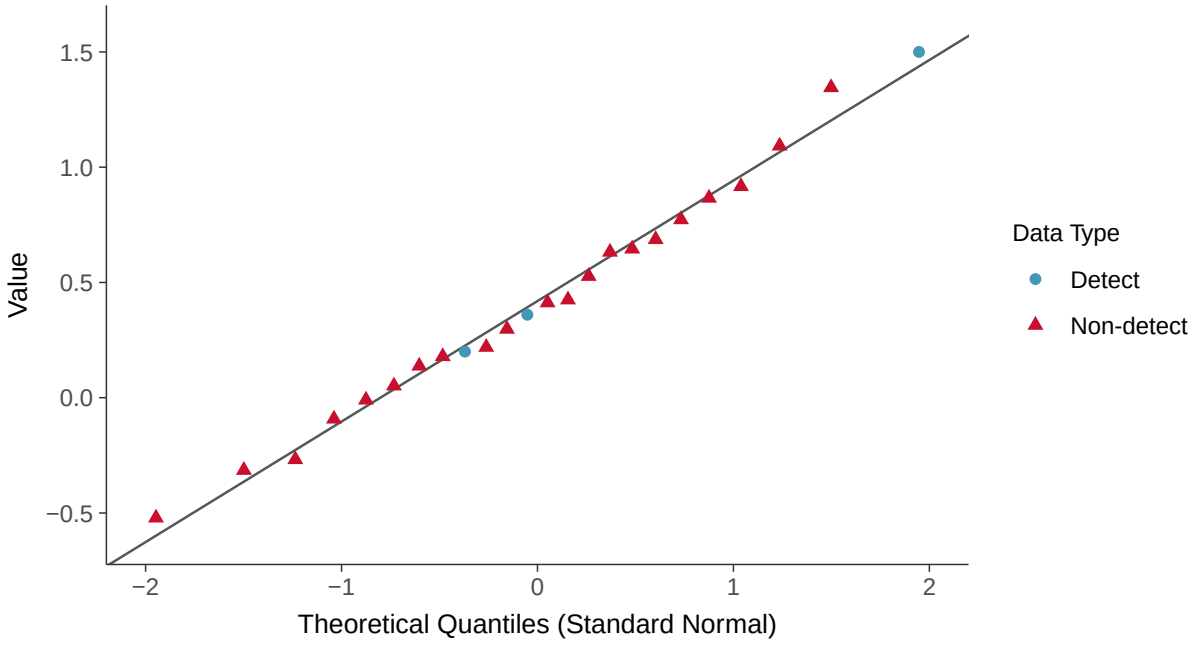
Boxplot by Season

Molybdenum, MW-15017 (ug/L)



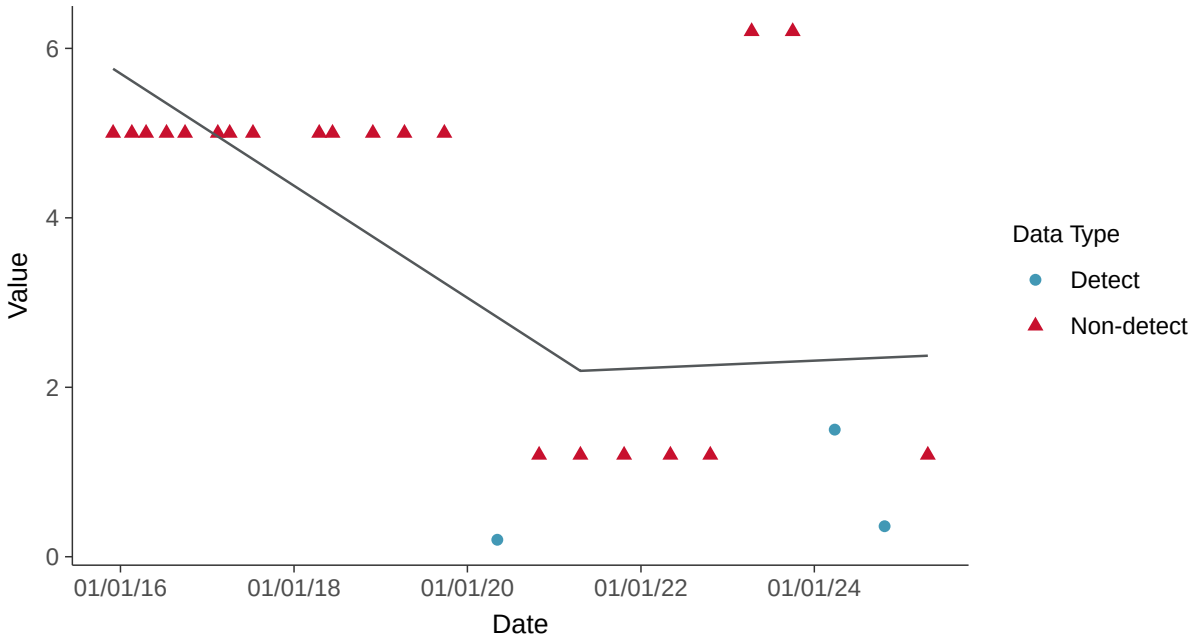
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15017 (ug/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-15017 (ug/L)

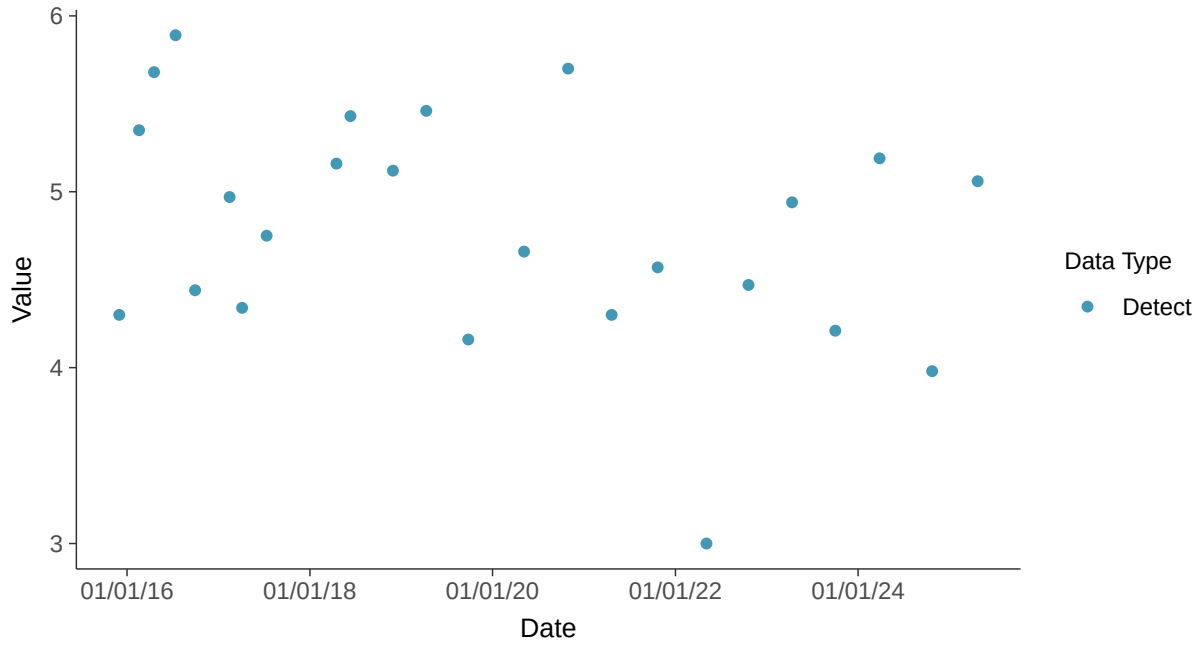


Appendix IV: Radium-226+228, MW-15017

ID: 07_2_125

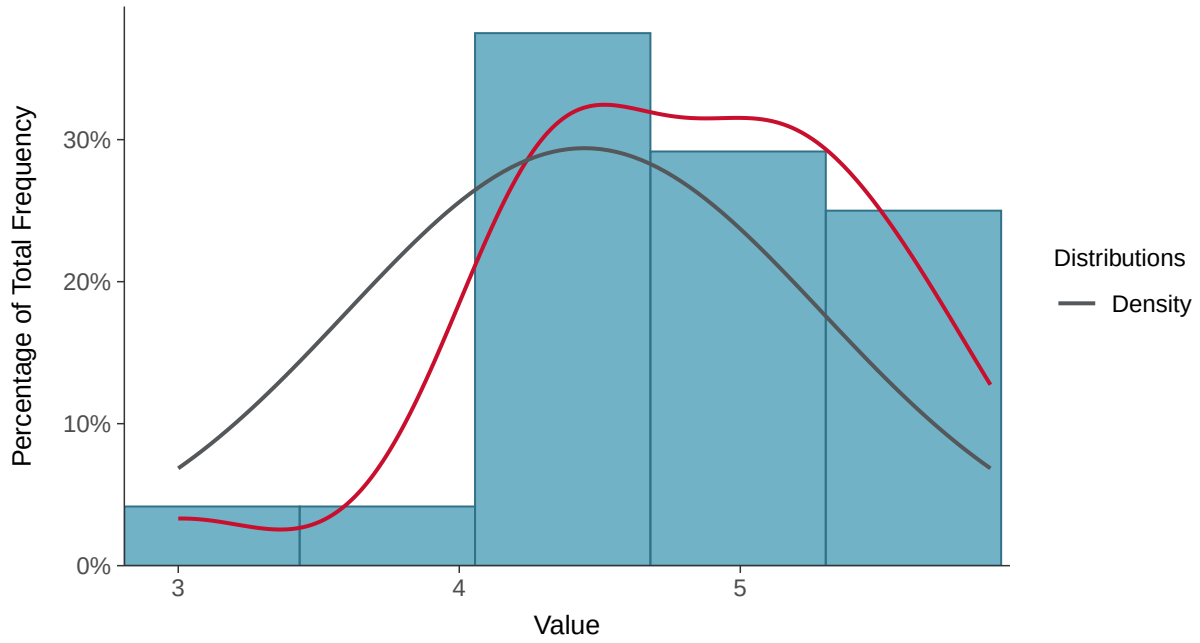
Scatter Plot

Radium-226+228, MW-15017 (pCi/L)



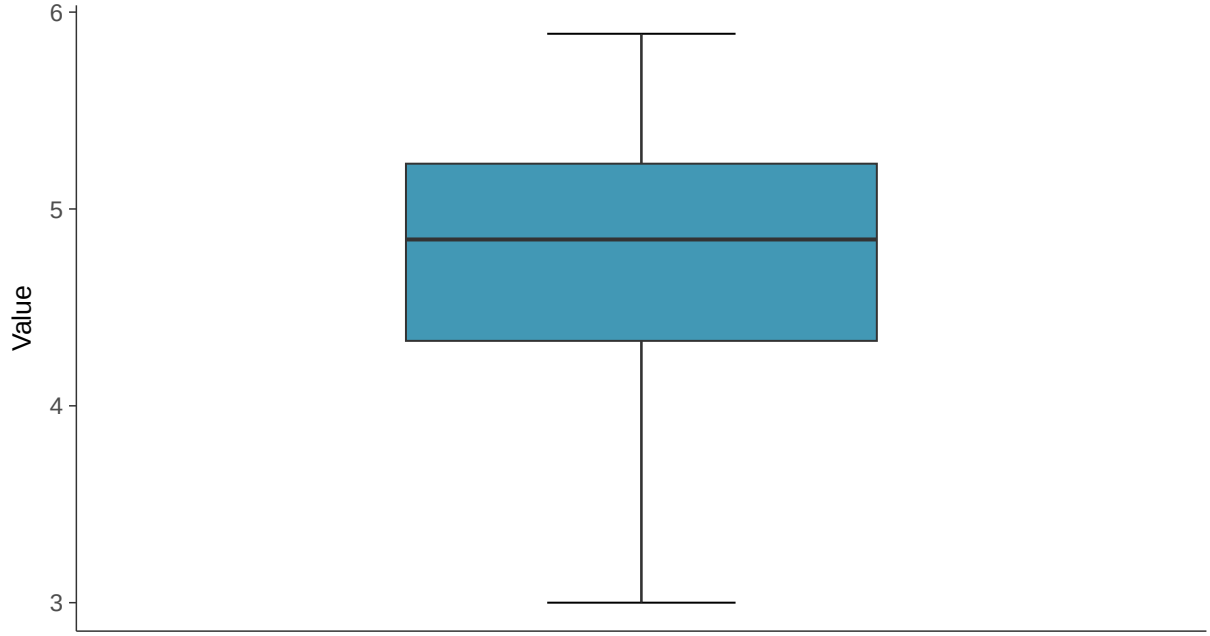
Histogram

Radium-226+228, MW-15017 (pCi/L)



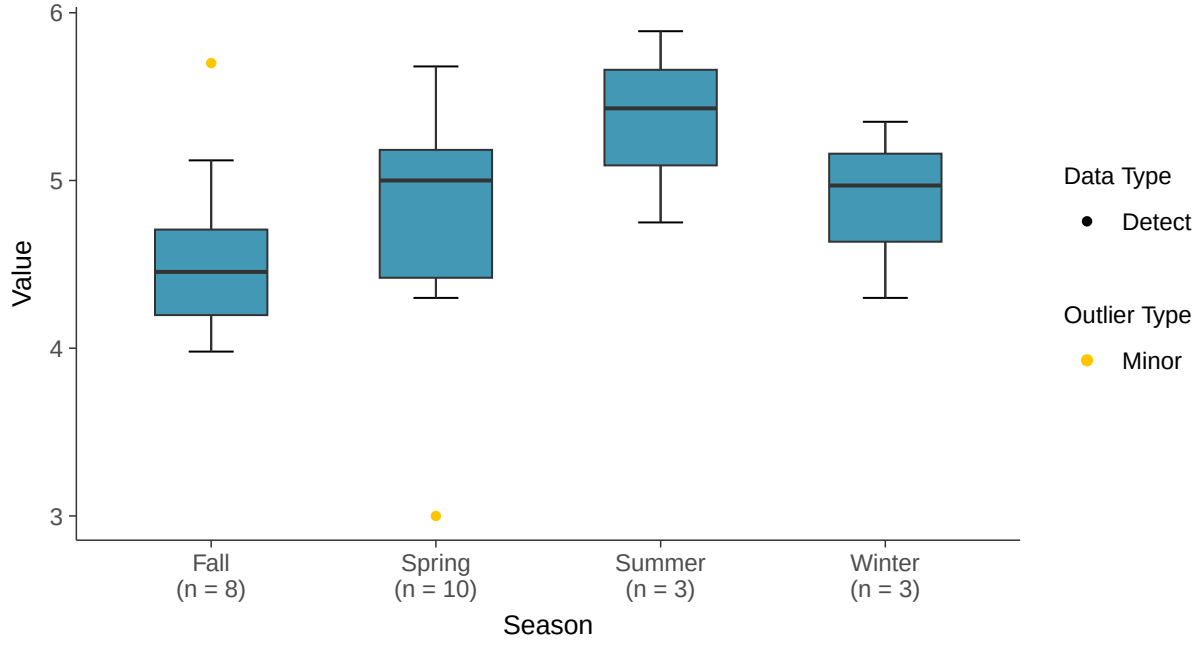
Boxplot

Radium-226+228, MW-15017 (pCi/L)



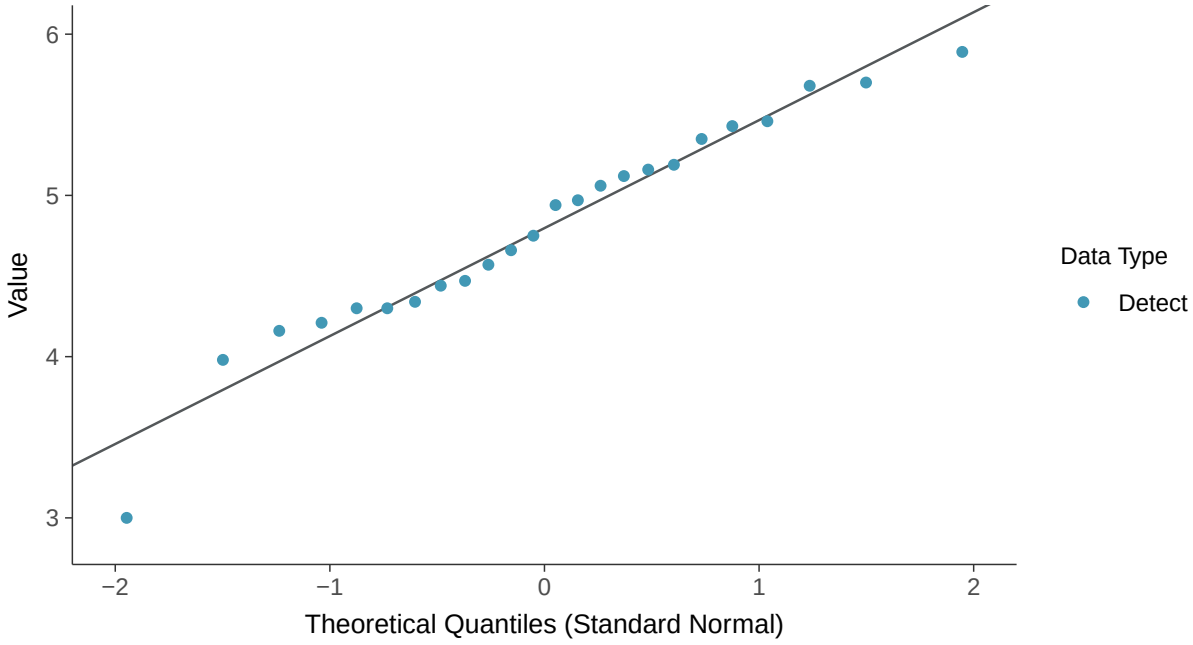
Boxplot by Season

Radium-226+228, MW-15017 (pCi/L)



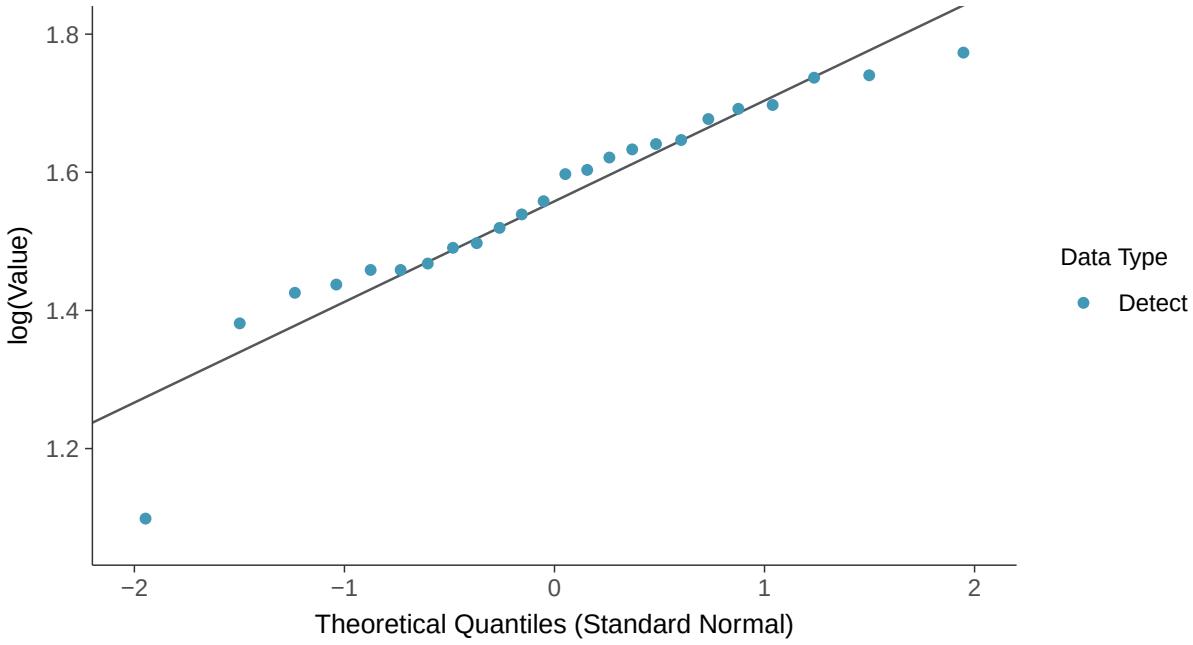
Normal Q-Q plot

Radium-226+228, MW-15017 (pCi/L)



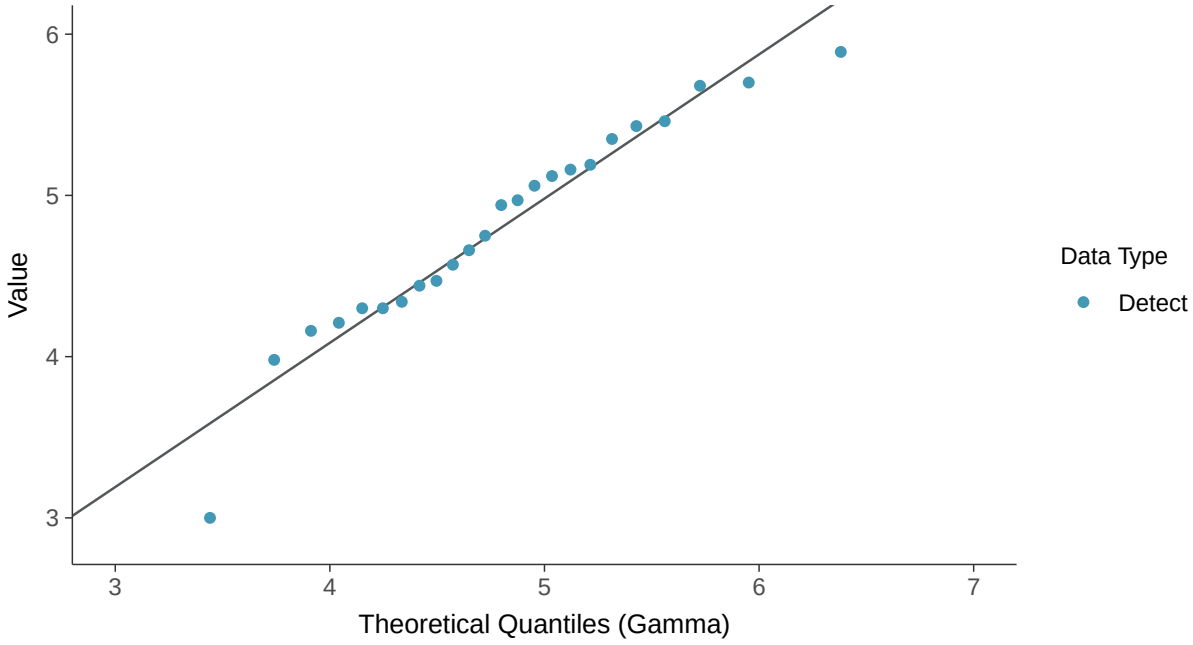
Lognormal Q-Q plot

Radium-226+228, MW-15017 (pCi/L)



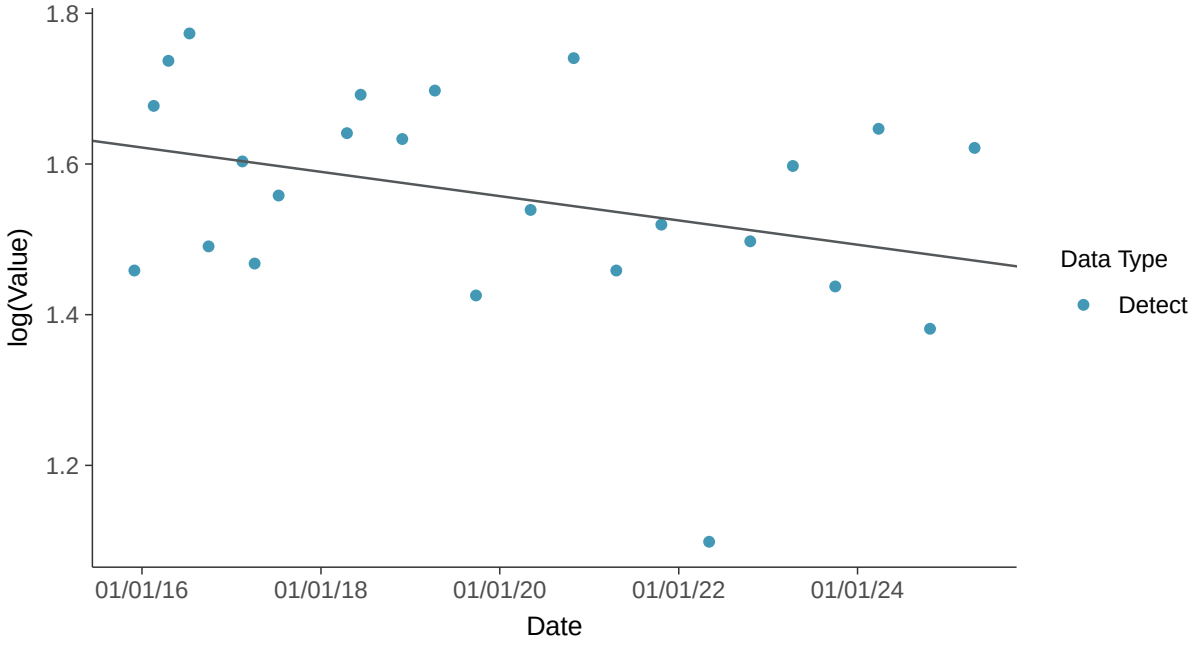
Gamma Q-Q plot

Radium-226+228, MW-15017 (pCi/L)



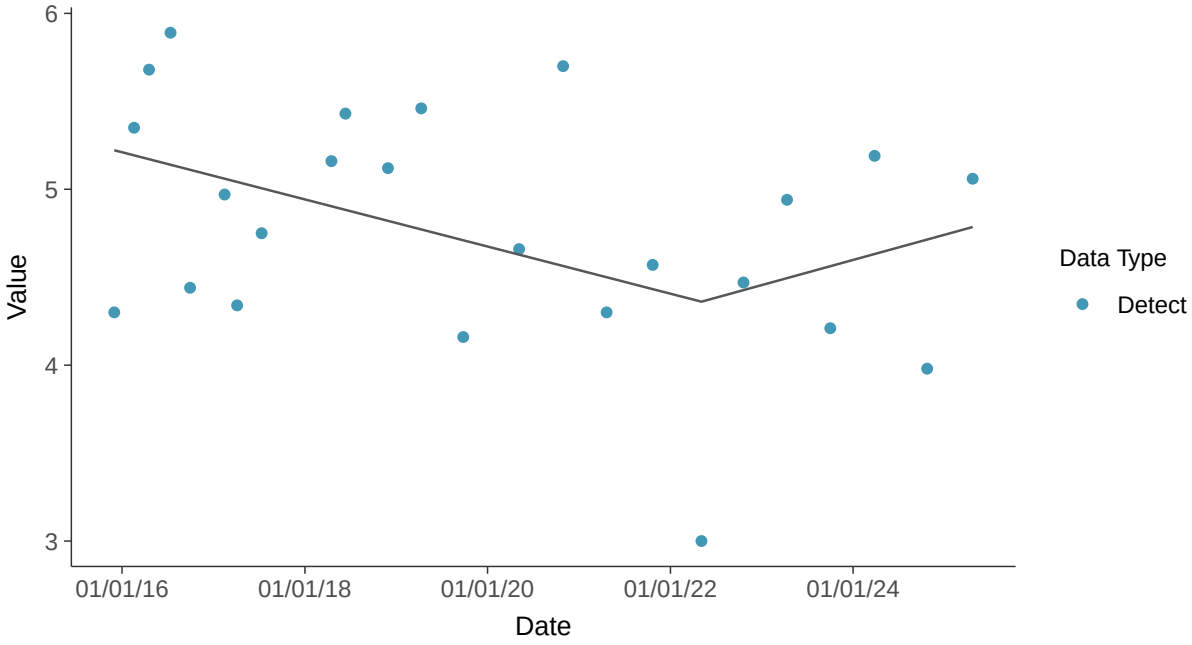
Trend Regression: Lognormal MLE

Radium-226+228, MW-15017 (pCi/L)



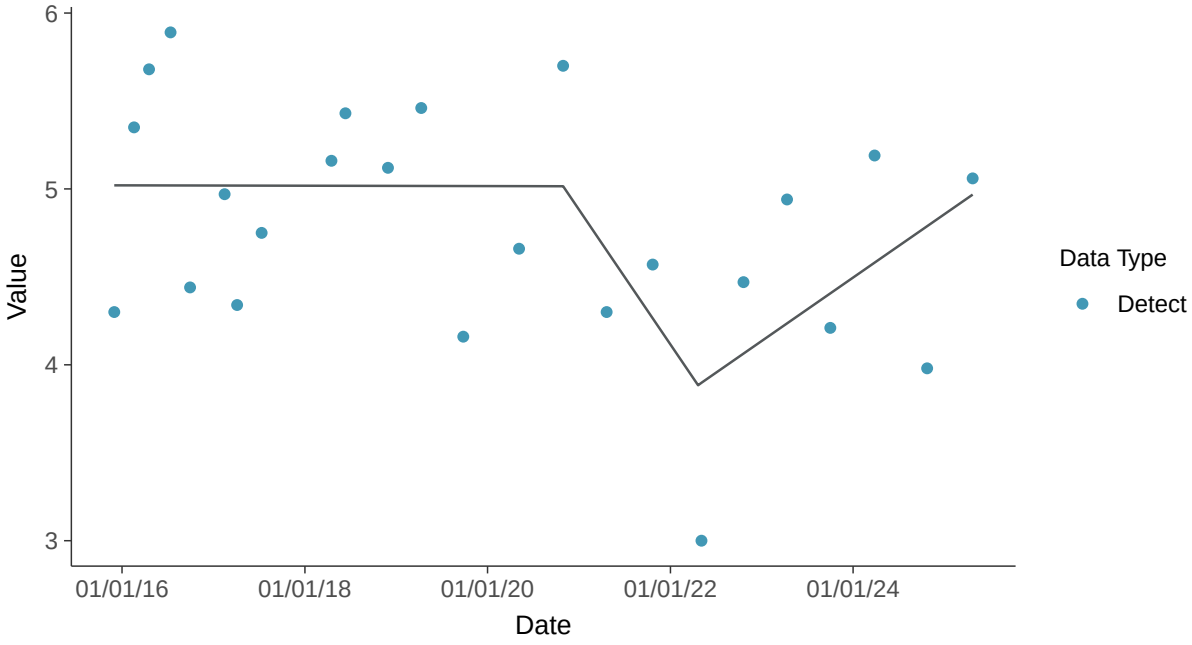
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-15017 (pCi/L)



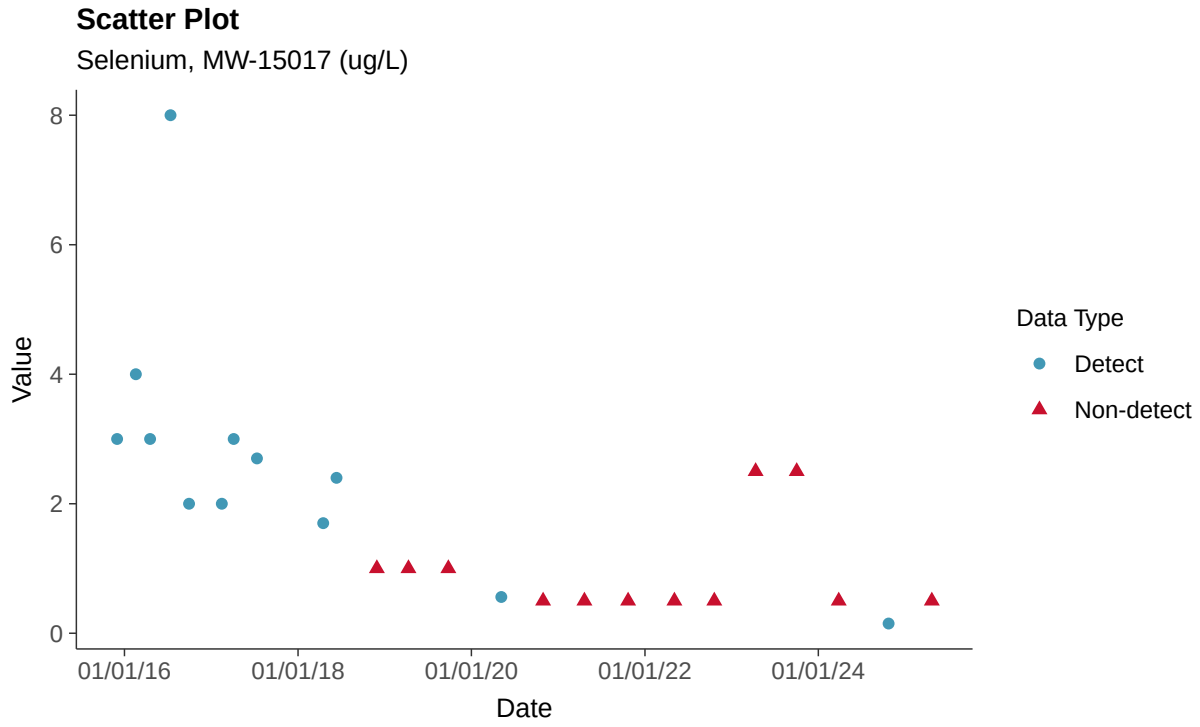
Trend Regression: Piecewise Linear-Linear-Linear

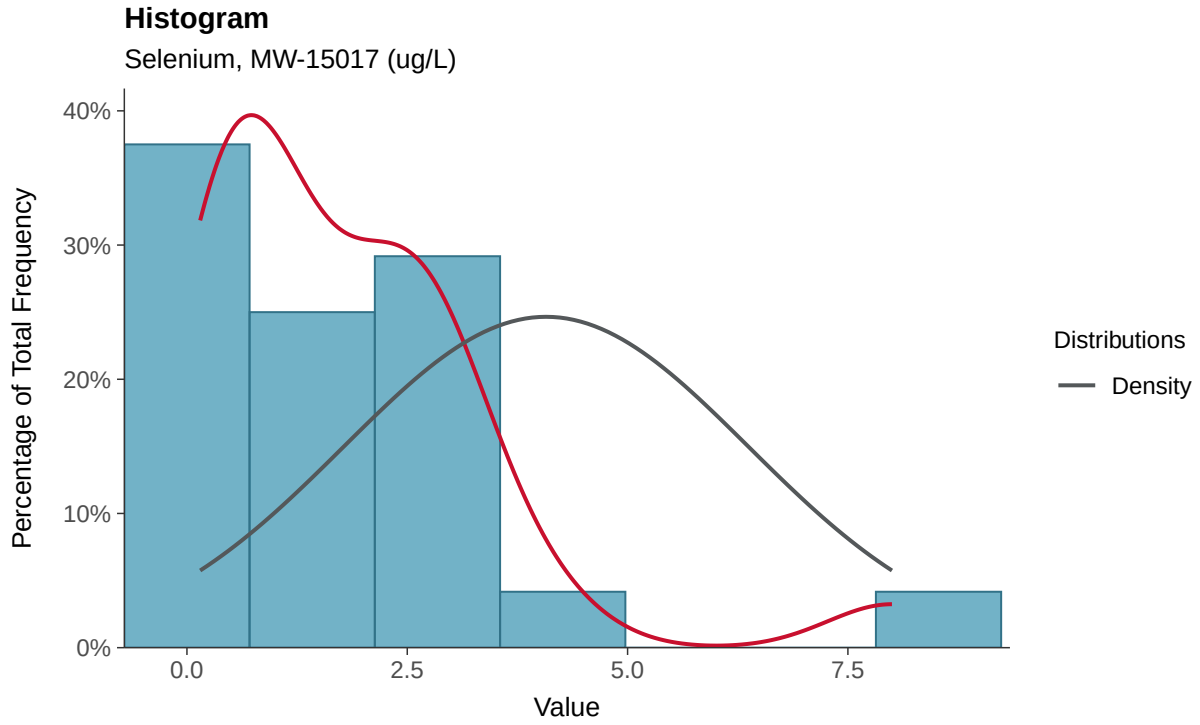
Radium-226+228, MW-15017 (pCi/L)



Appendix IV: Selenium, MW-15017

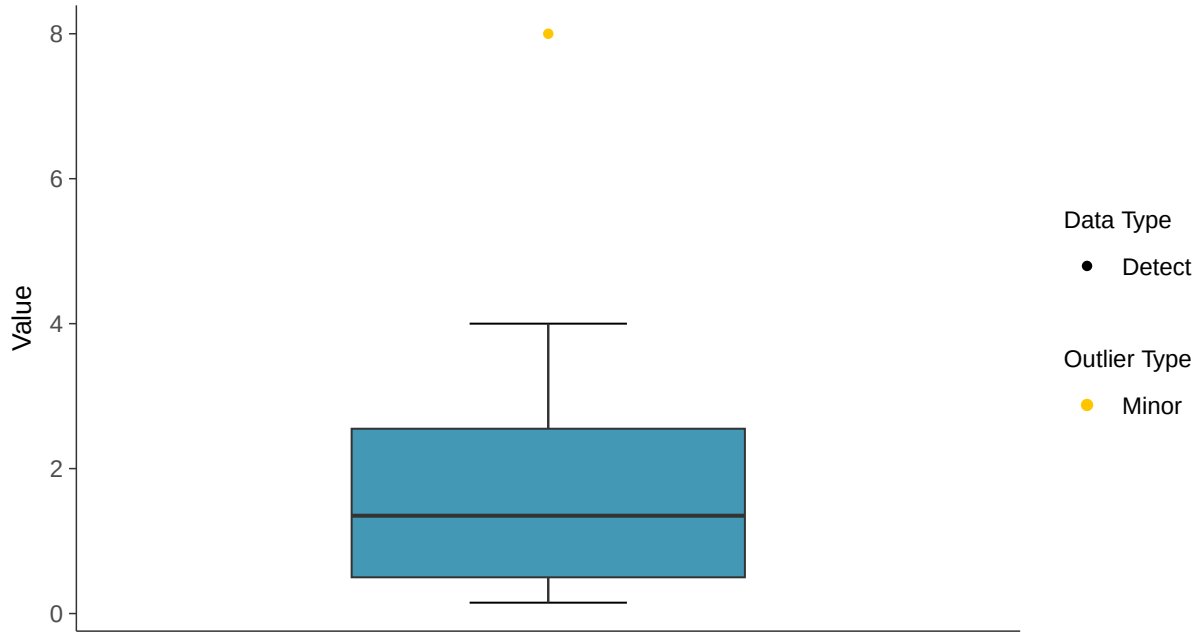
ID: 07_2_127





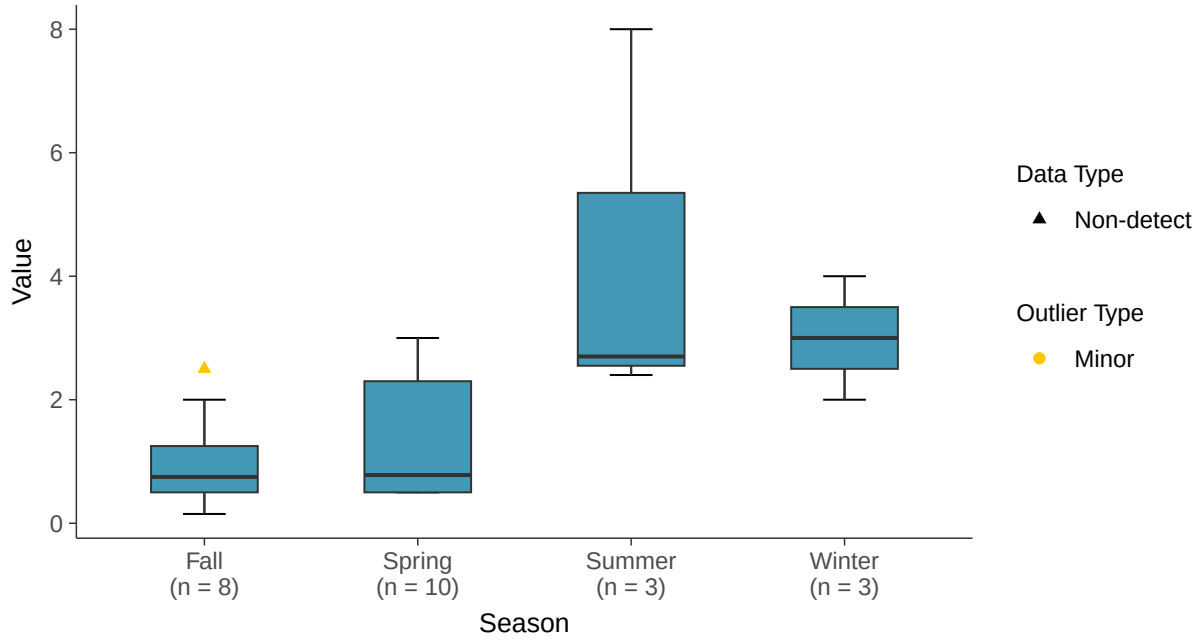
Boxplot

Selenium, MW-15017 (ug/L)



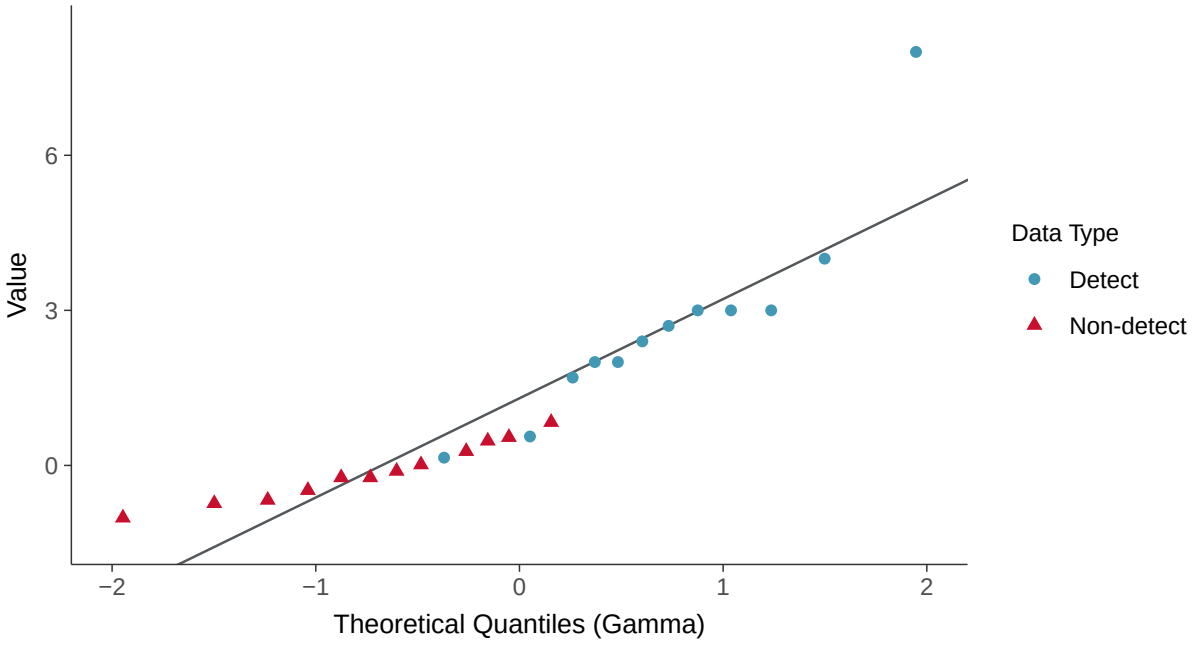
Boxplot by Season

Selenium, MW-15017 (ug/L)



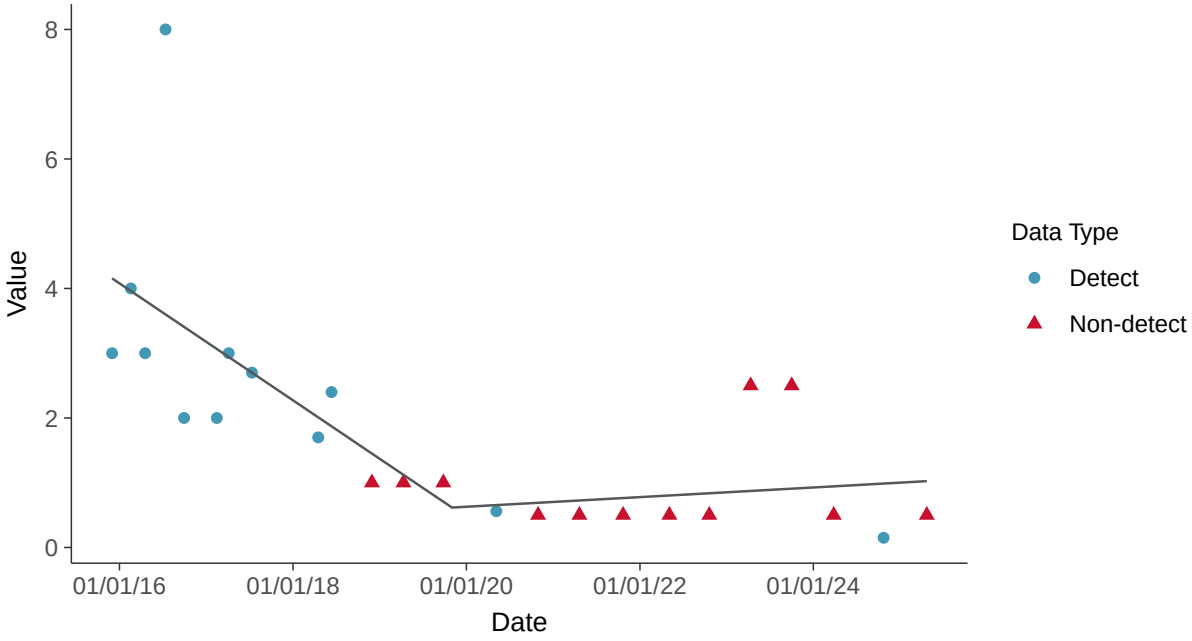
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-15017 (ug/L)



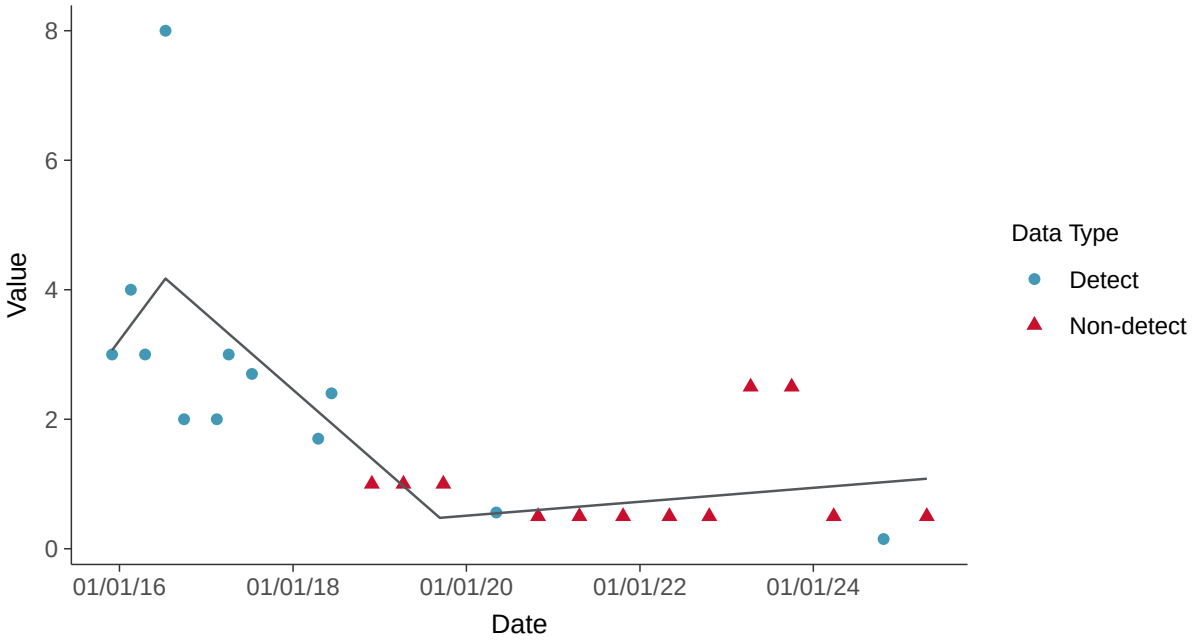
Trend Regression: Piecewise Linear-Linear

Selenium, MW-15017 (ug/L)



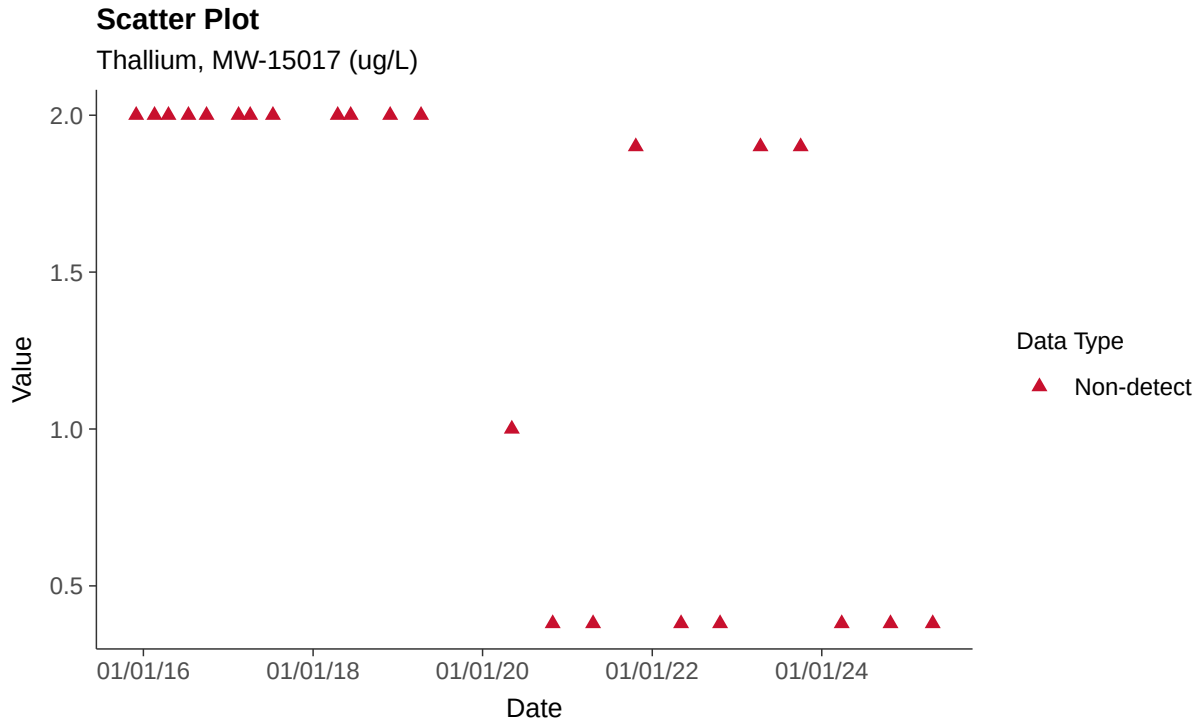
Trend Regression: Piecewise Linear-Linear-Linear

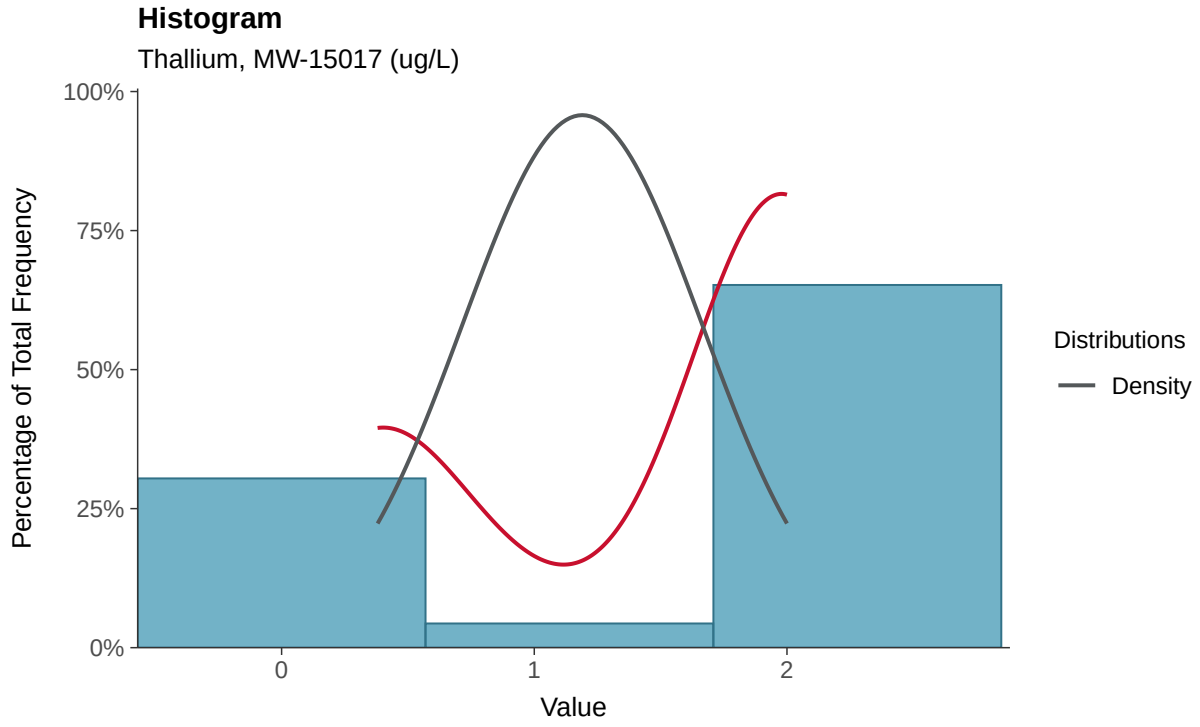
Selenium, MW-15017 (ug/L)



Appendix IV: Thallium, MW-15017

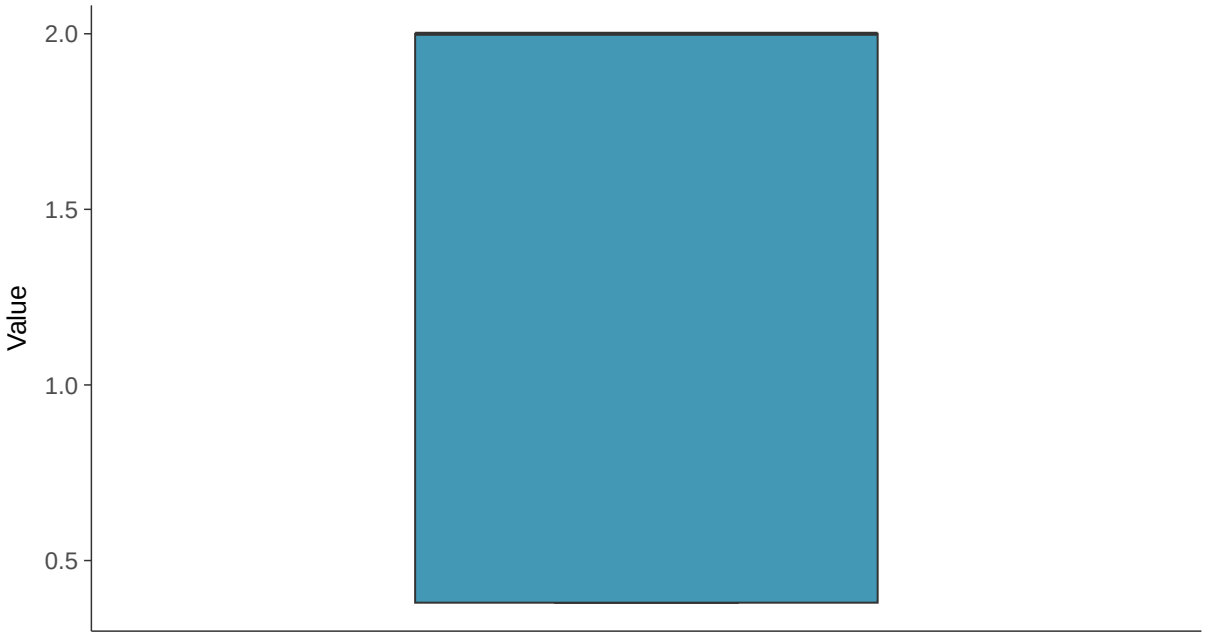
ID: 07_2_131





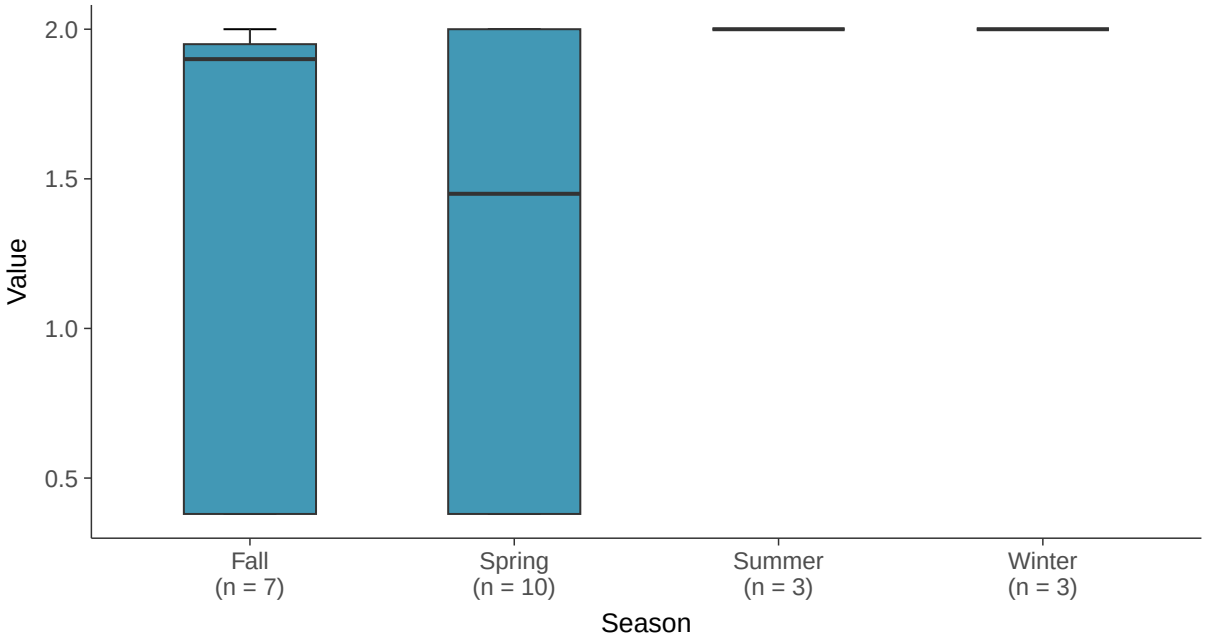
Boxplot

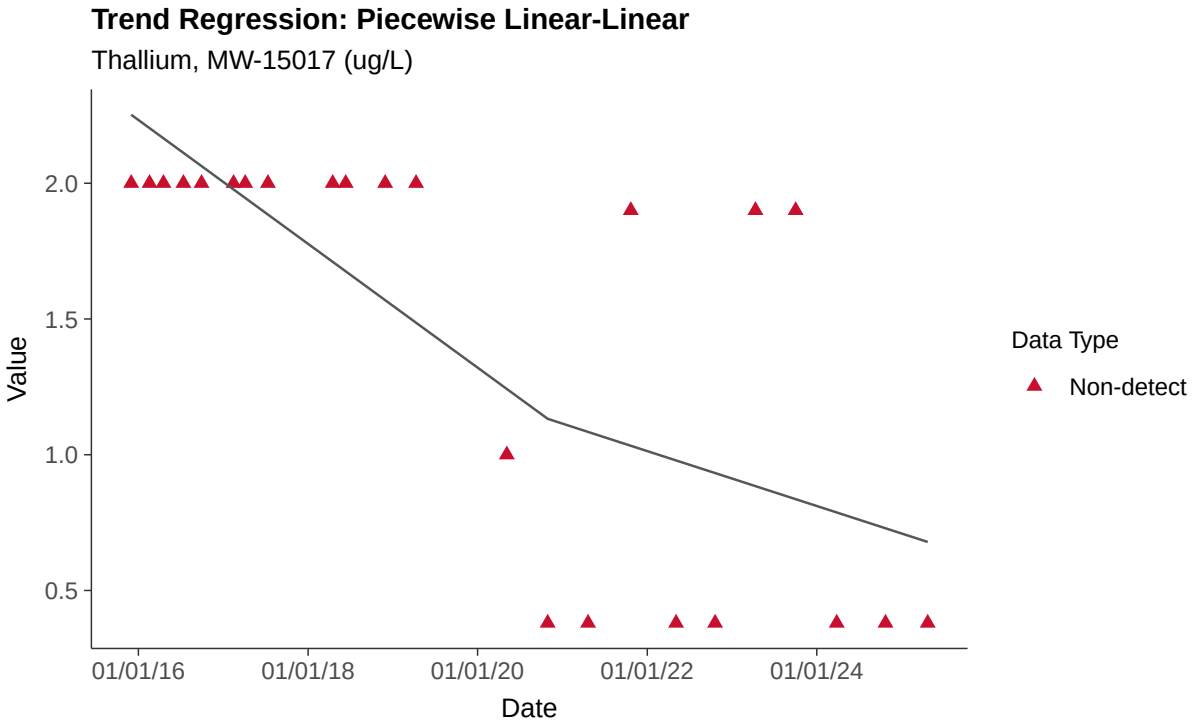
Thallium, MW-15017 (ug/L)



Boxplot by Season

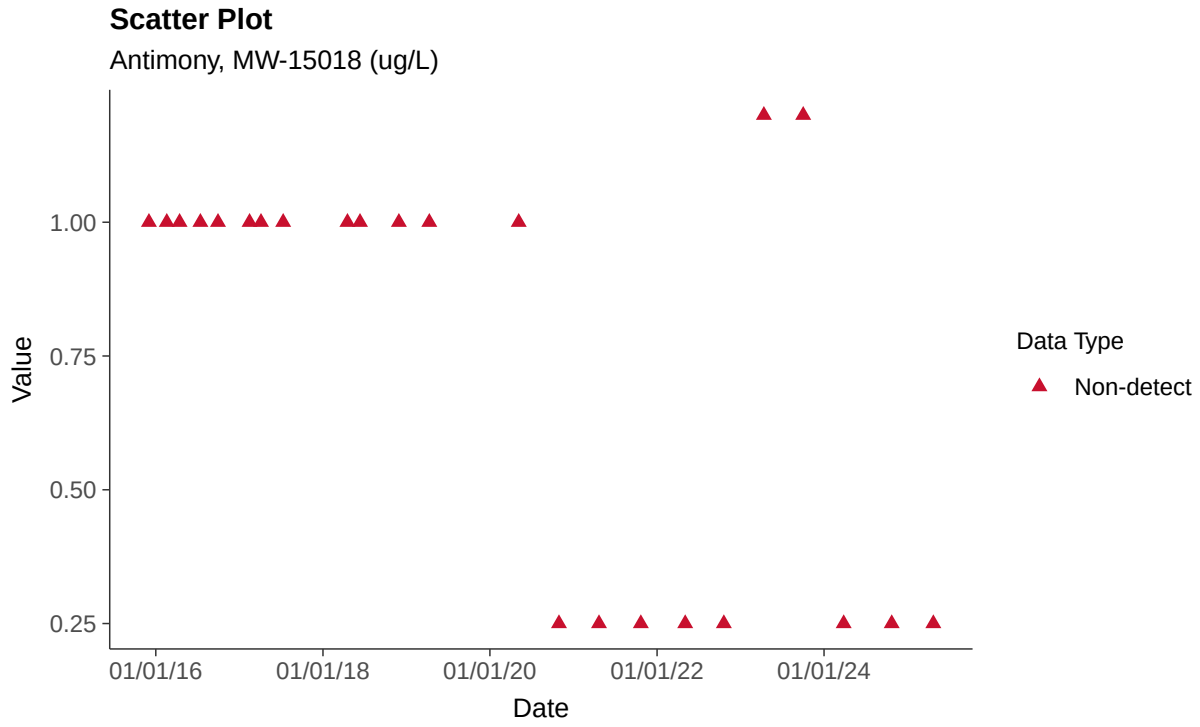
Thallium, MW-15017 (ug/L)

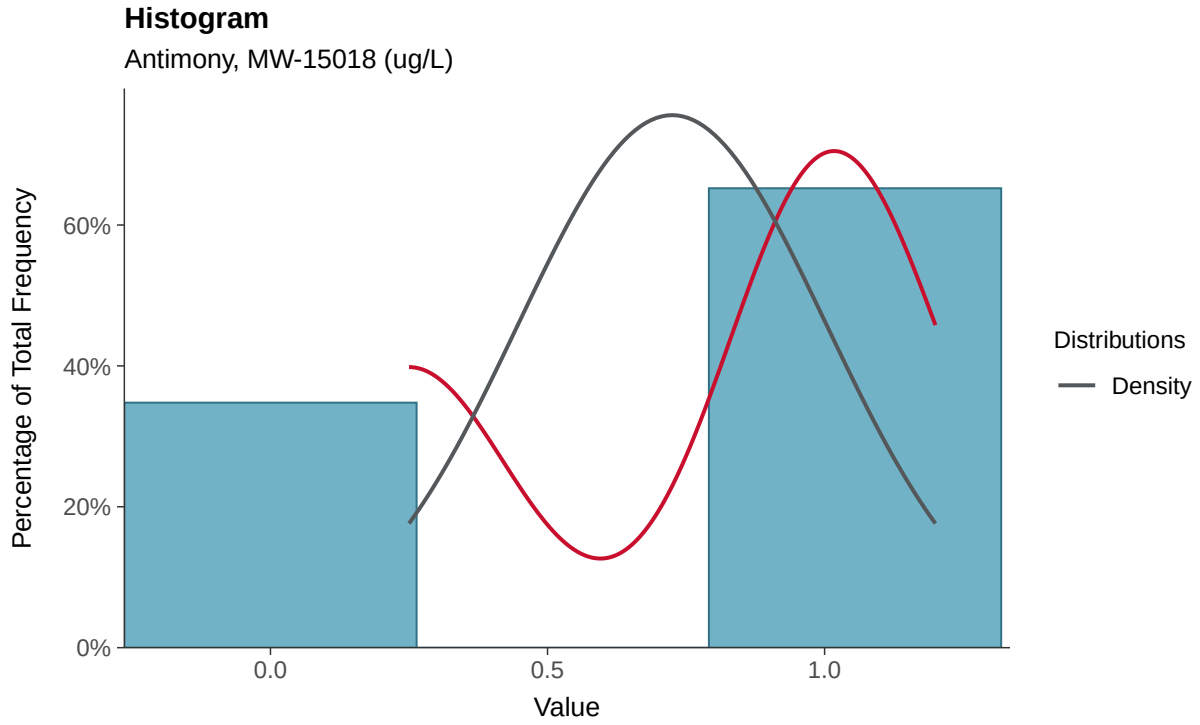



Trend Regression: Piecewise Linear-Linear
Thallium, MW-15017 (ug/L)
Value
2.0
1.5
1.0
0.5
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Non-detect

Appendix IV: Antimony, MW-15018

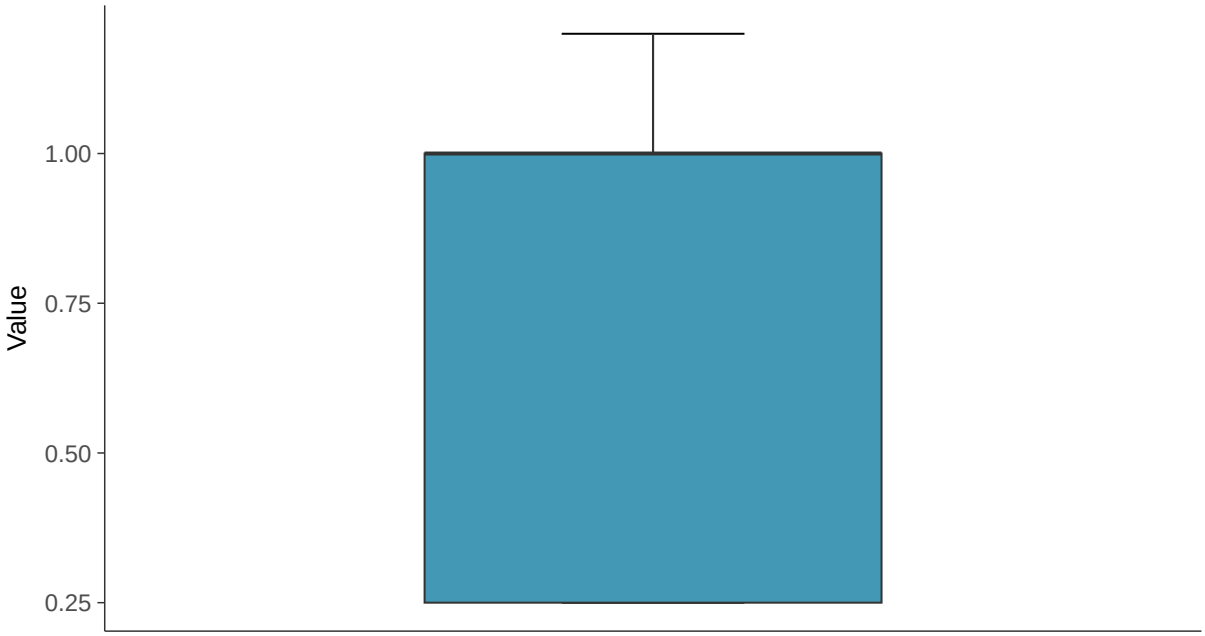
ID: 08_2_101





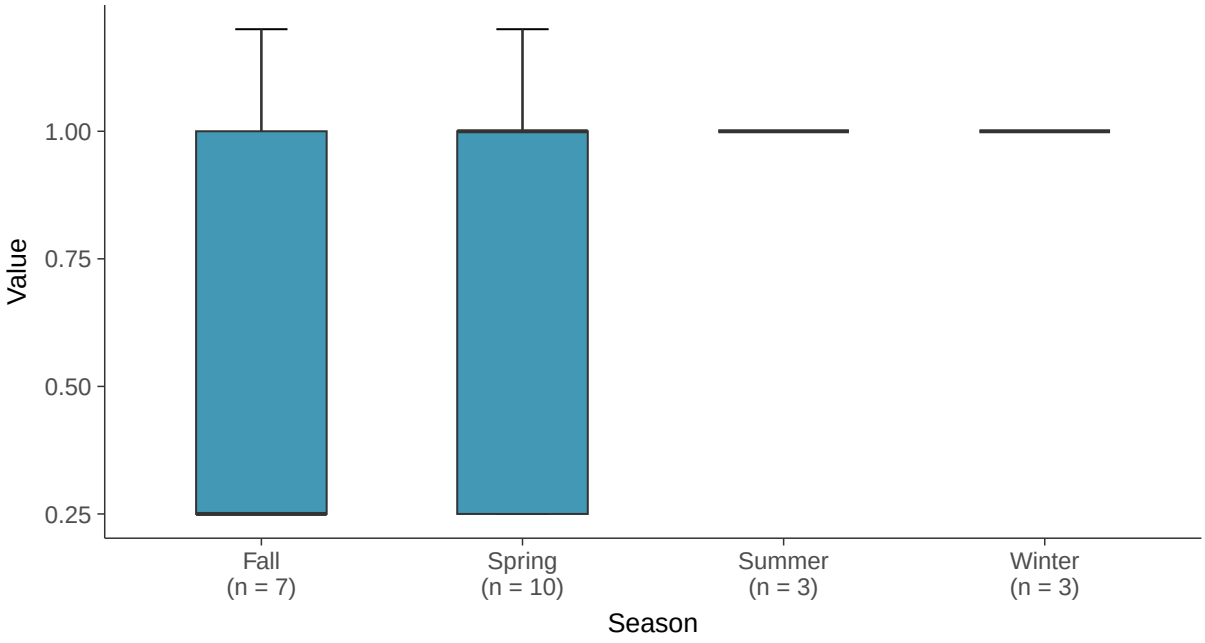
Boxplot

Antimony, MW-15018 (ug/L)



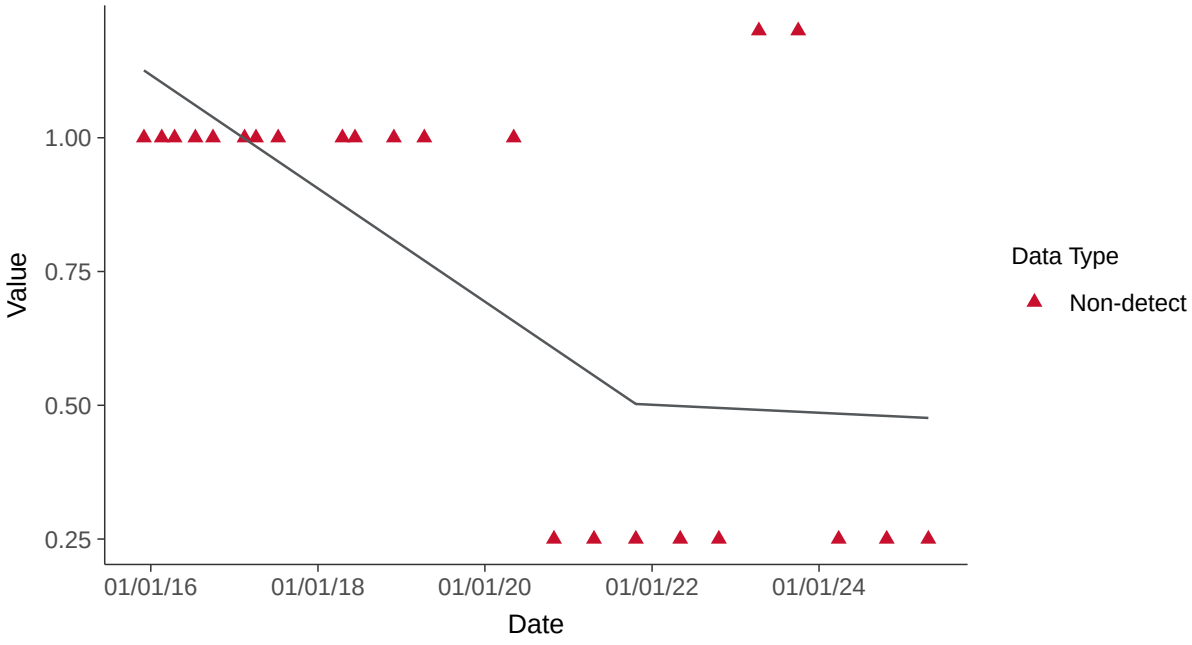
Boxplot by Season

Antimony, MW-15018 (ug/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-15018 (ug/L)

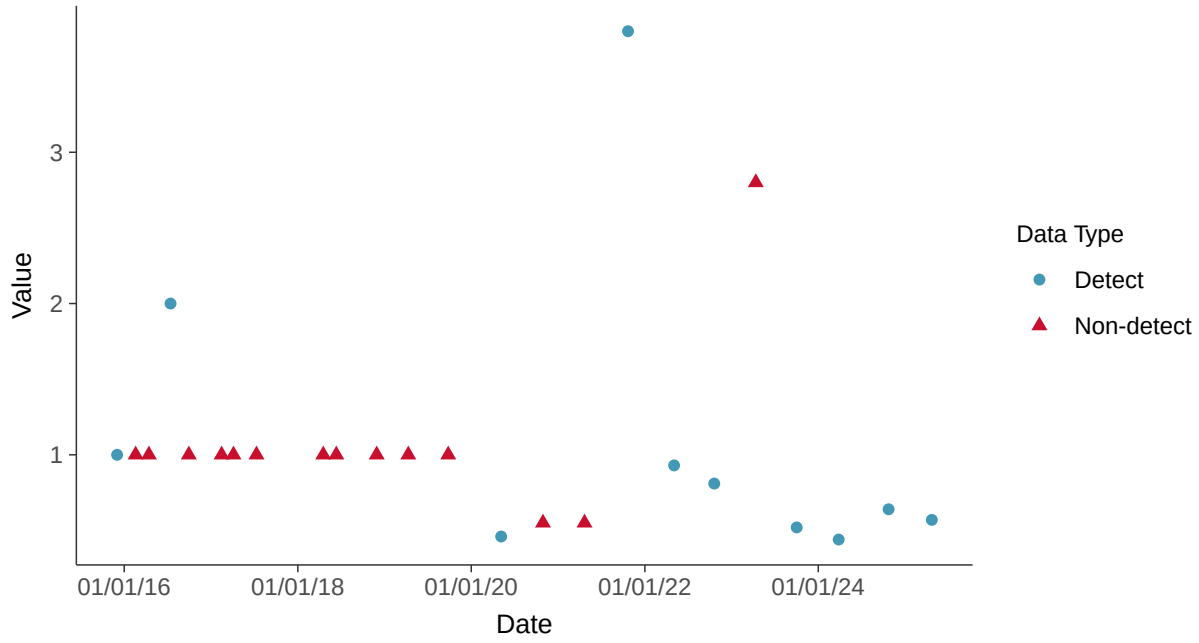


Appendix IV: Arsenic, MW-15018

ID: 08_2_102

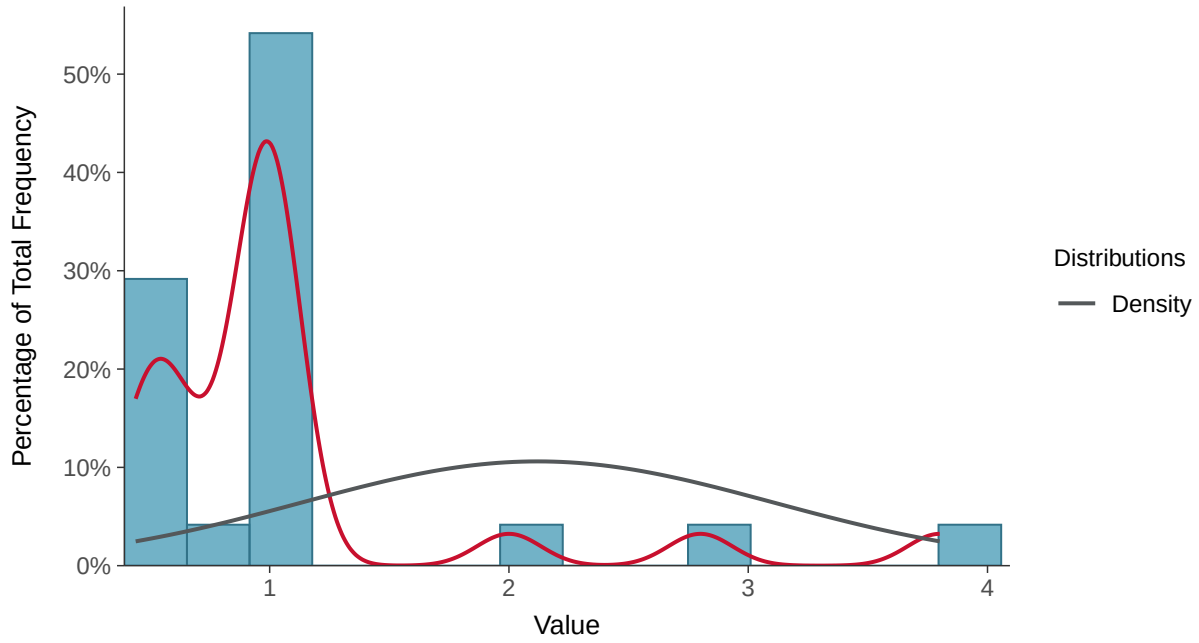
Scatter Plot

Arsenic, MW-15018 (ug/L)



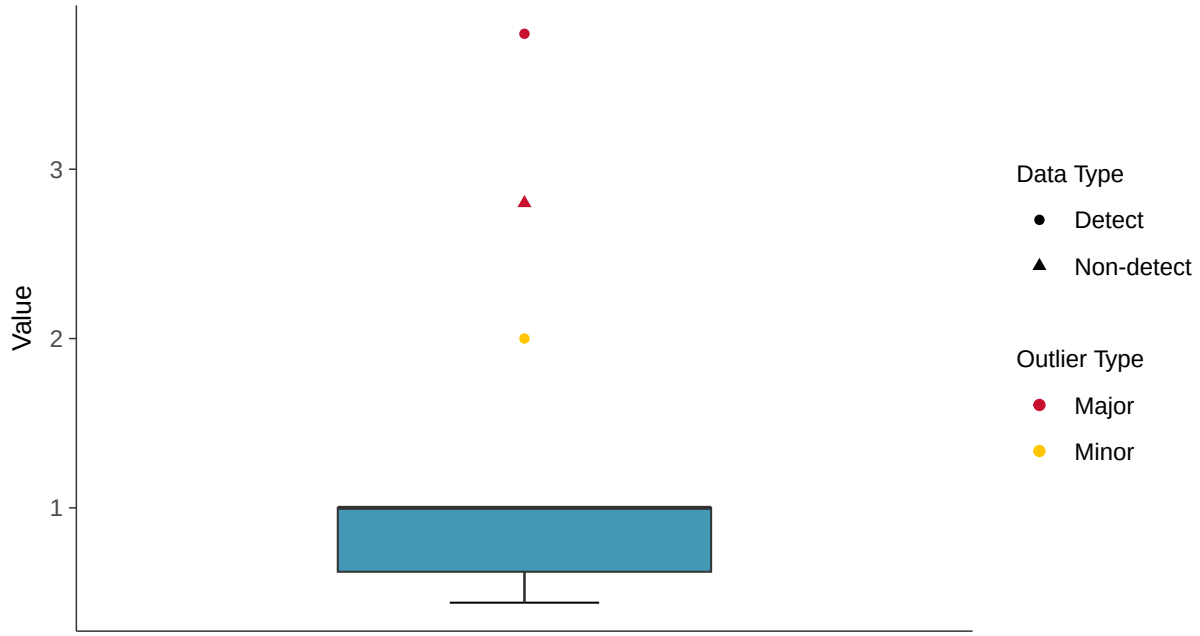
Histogram

Arsenic, MW-15018 (ug/L)



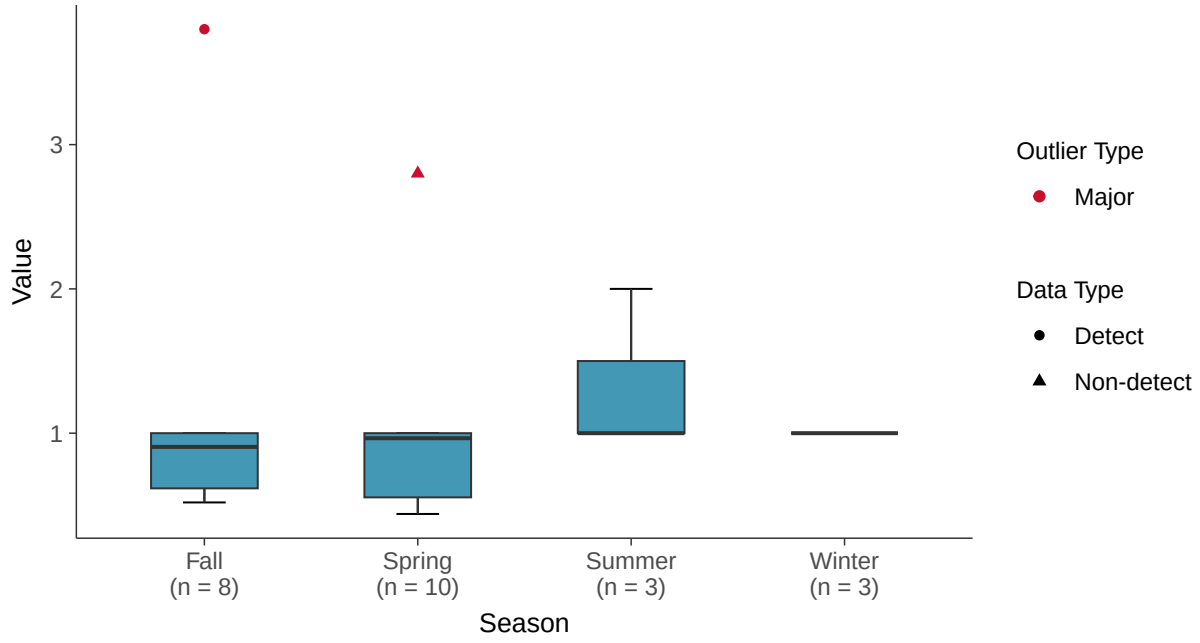
Boxplot

Arsenic, MW-15018 (ug/L)



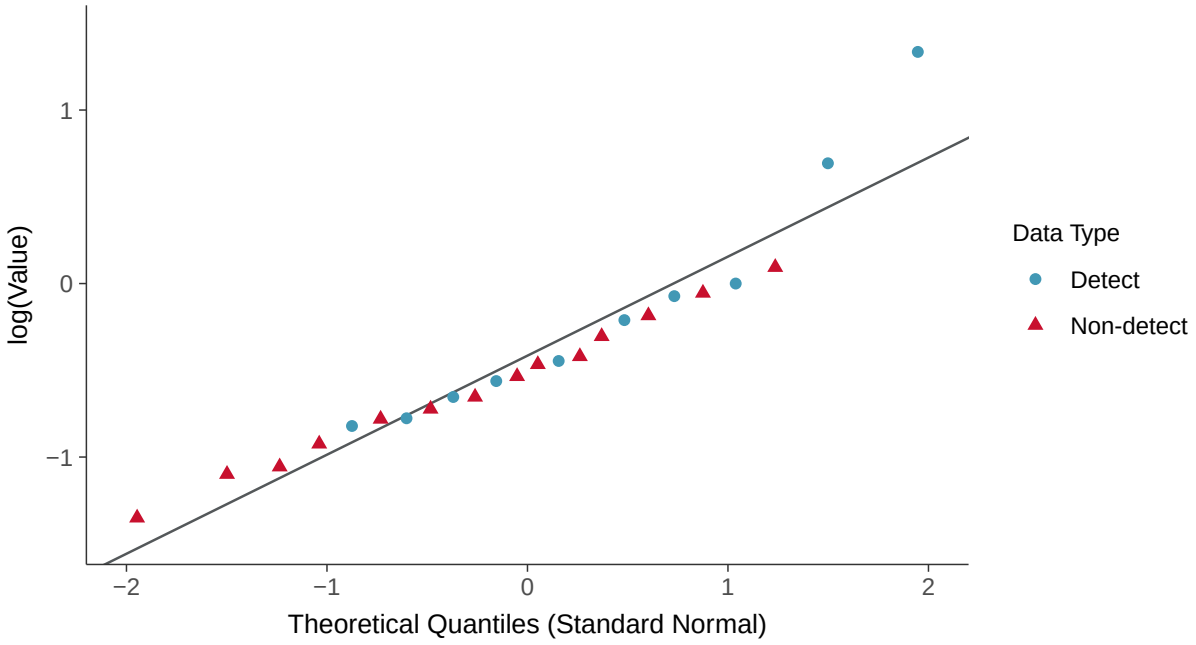
Boxplot by Season

Arsenic, MW-15018 (ug/L)



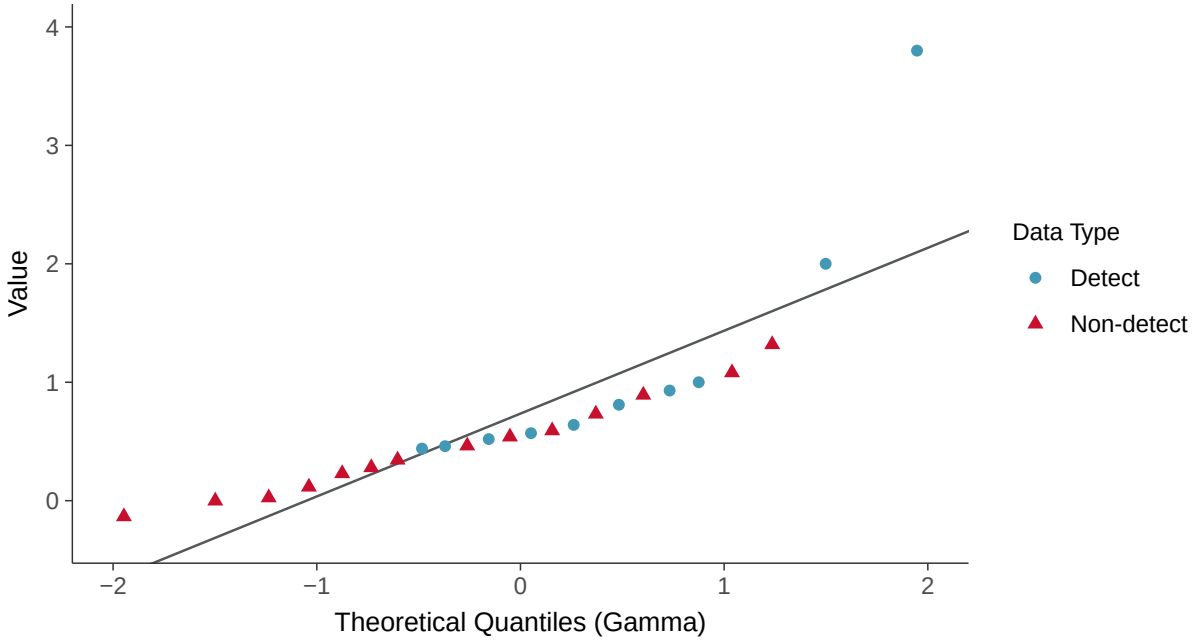
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15018 (ug/L)



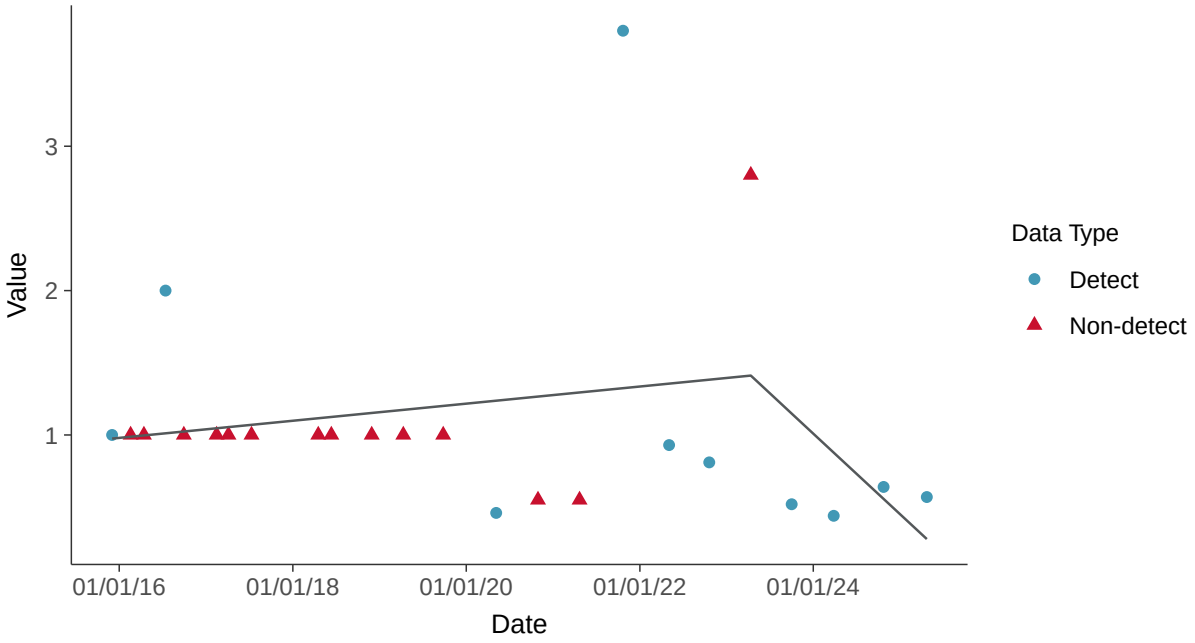
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15018 (ug/L)



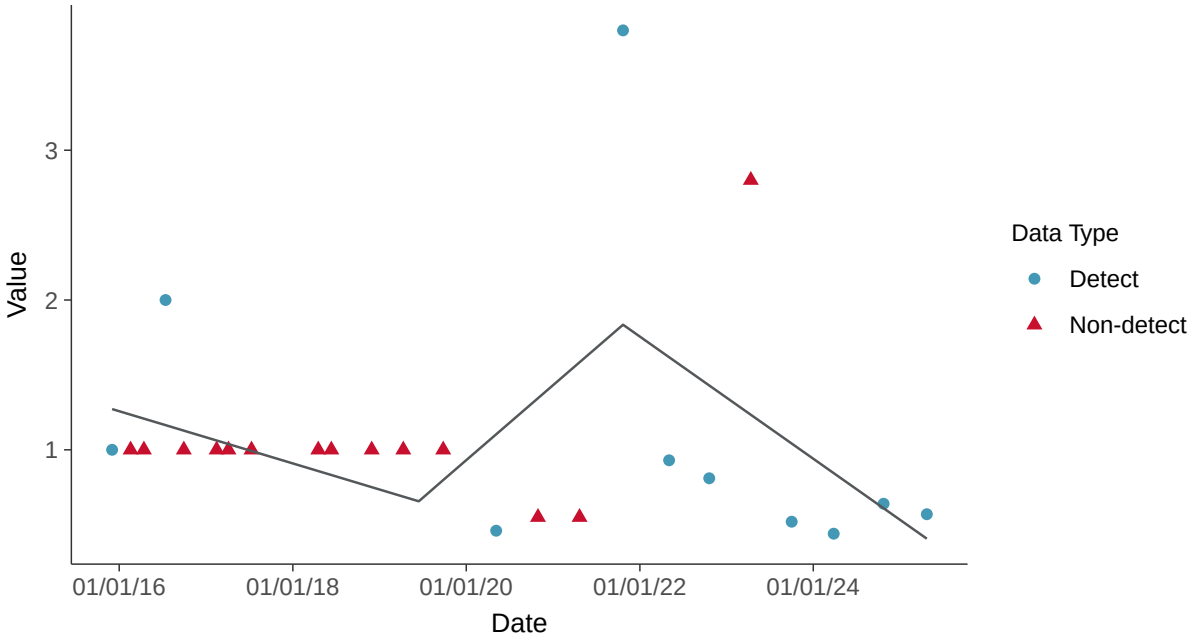
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-15018 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-15018 (ug/L)

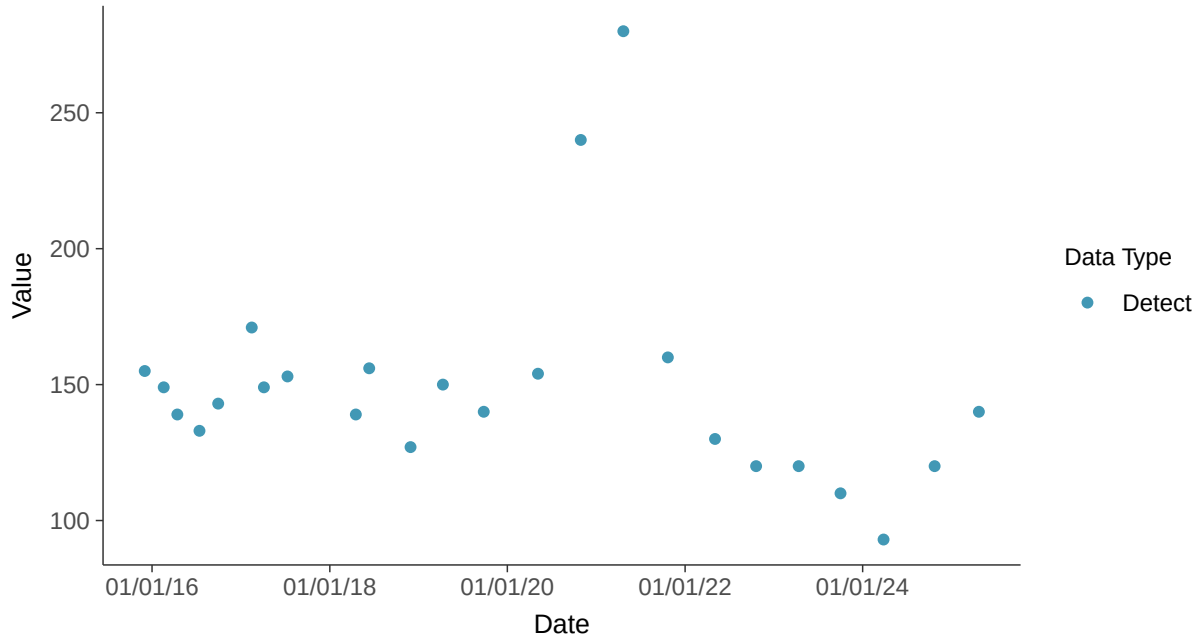


Appendix IV: Barium, MW-15018

ID: 08_2_103

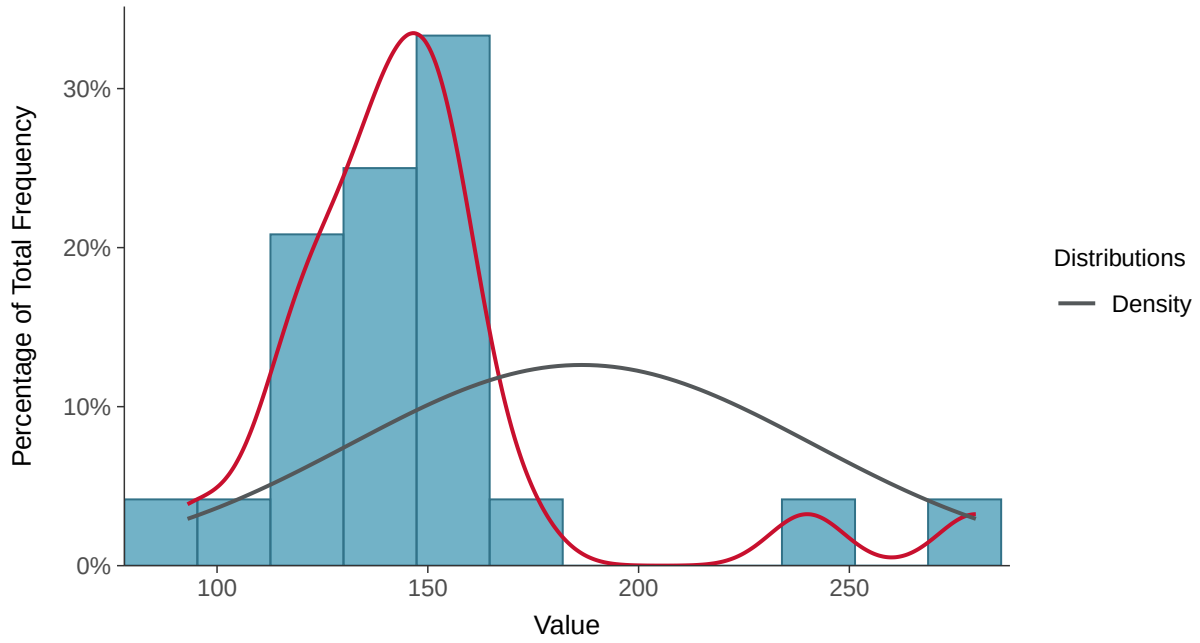
Scatter Plot

Barium, MW-15018 (ug/L)



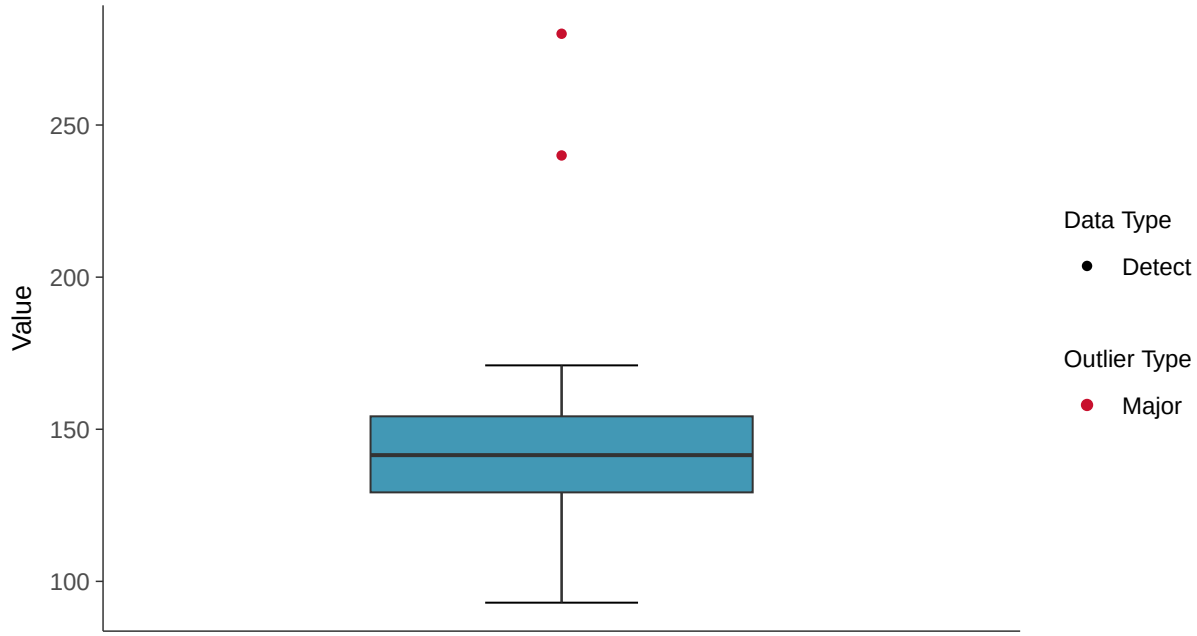
Histogram

Barium, MW-15018 (ug/L)



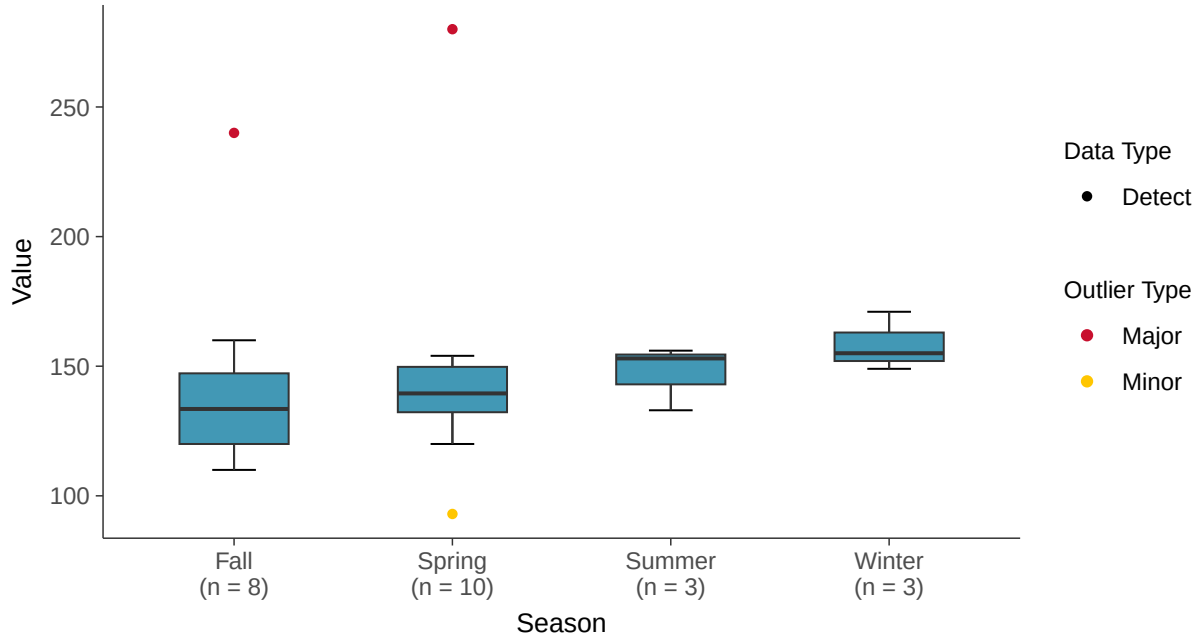
Boxplot

Barium, MW-15018 (ug/L)



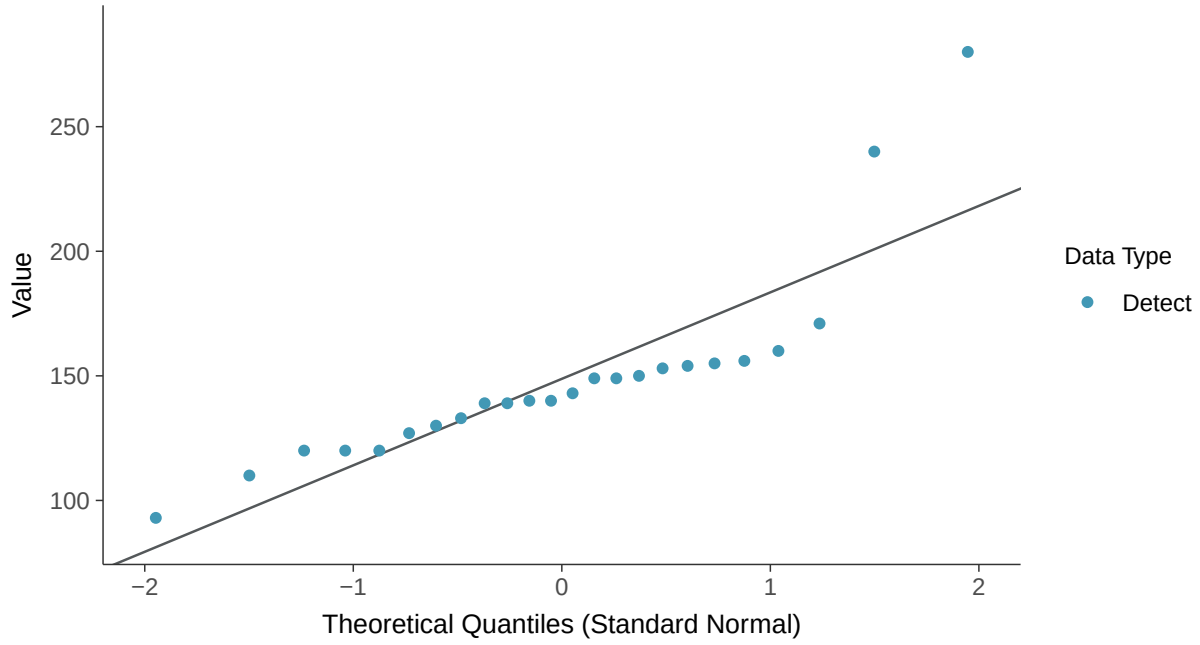
Boxplot by Season

Barium, MW-15018 (ug/L)



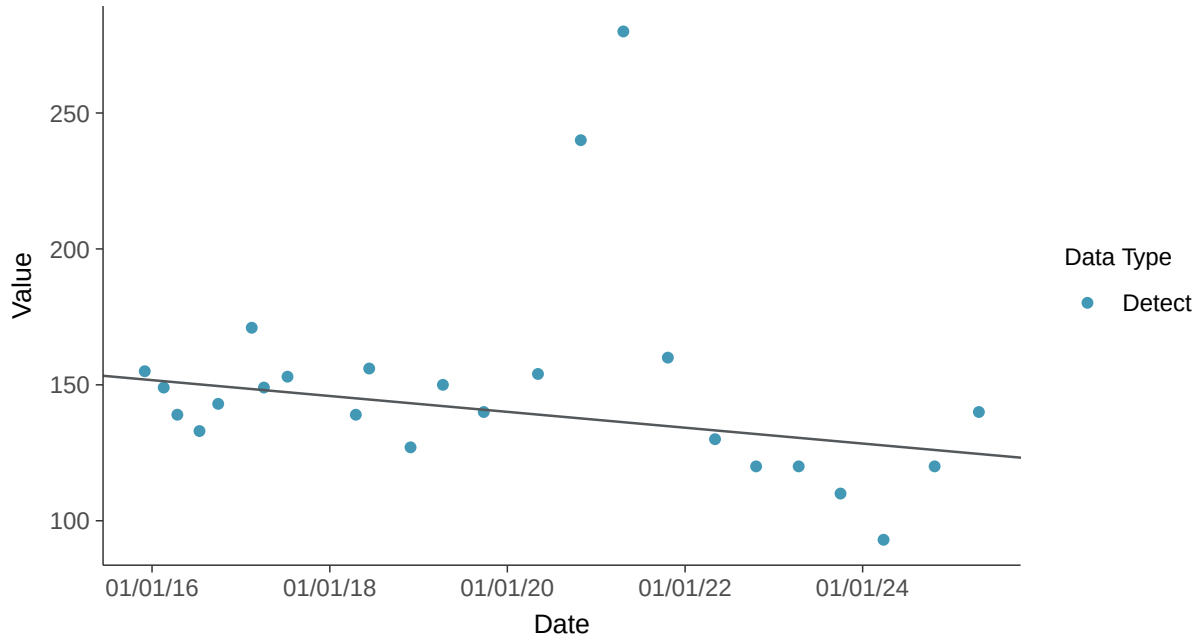
Normal Q-Q plot

Barium, MW-15018 (ug/L)



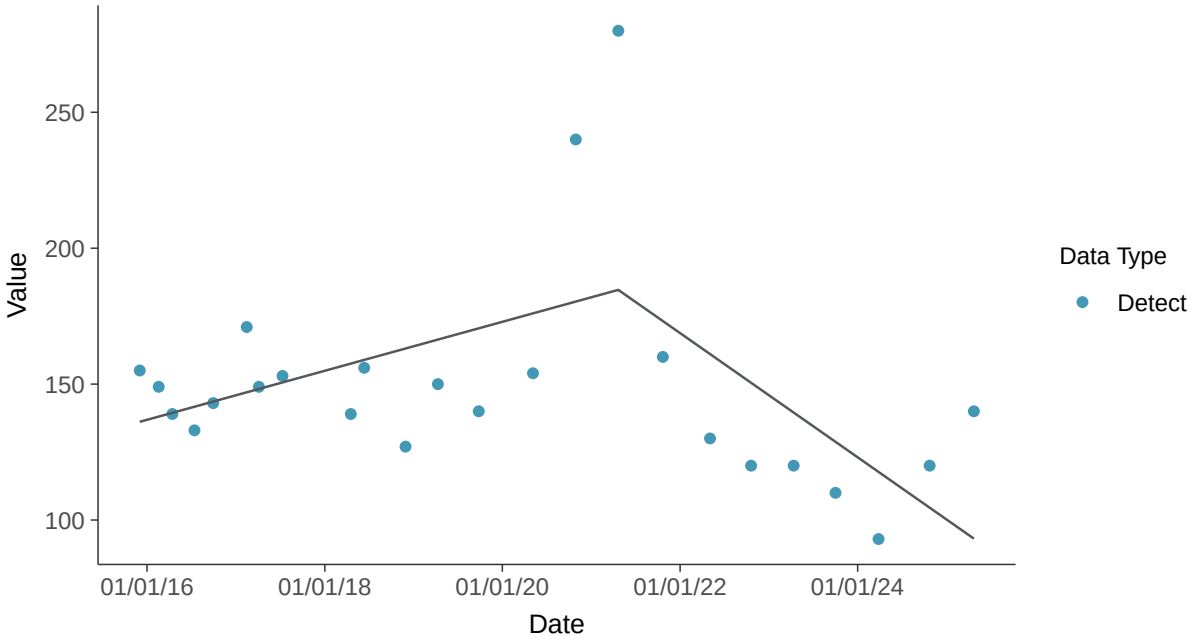
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Barium, MW-15018 (ug/L)



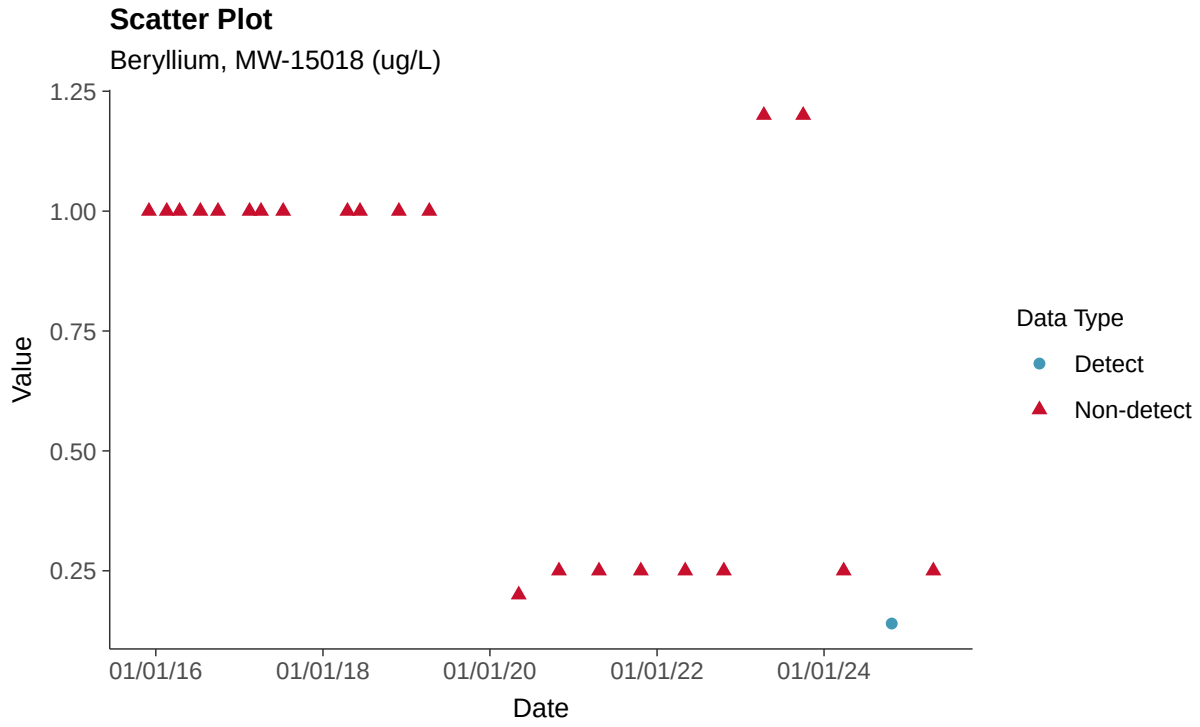
Trend Regression: Piecewise Linear-Linear

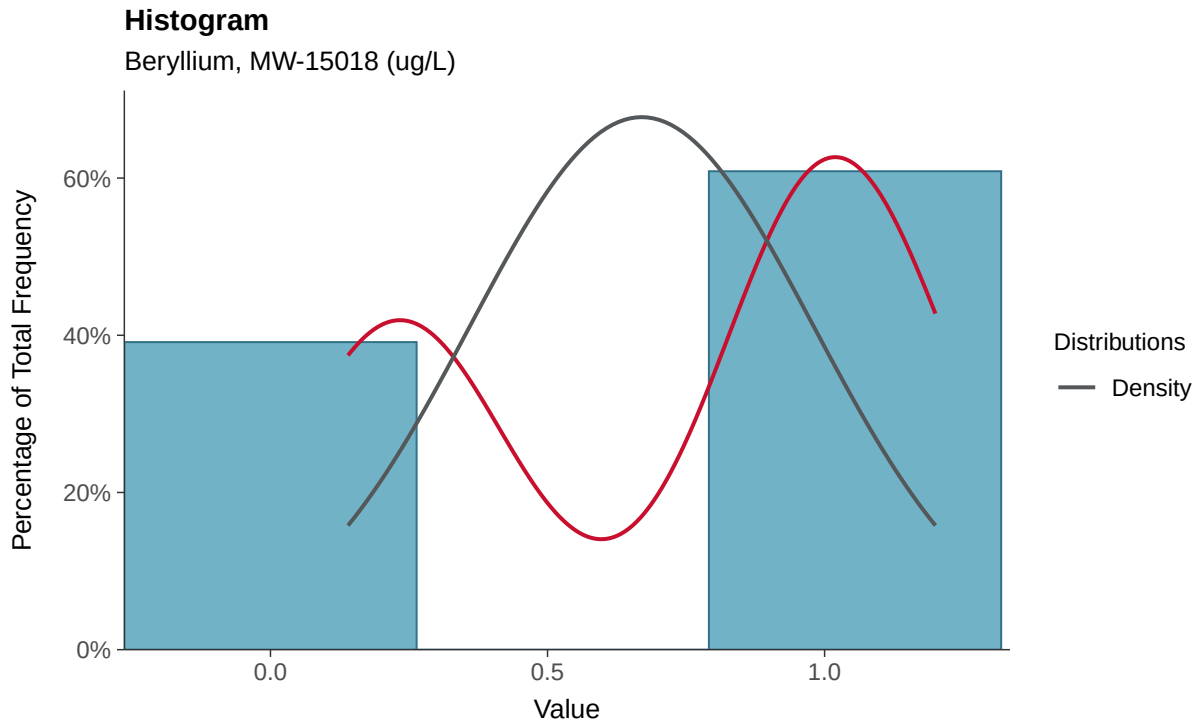
Barium, MW-15018 (ug/L)



Appendix IV: Beryllium, MW-15018

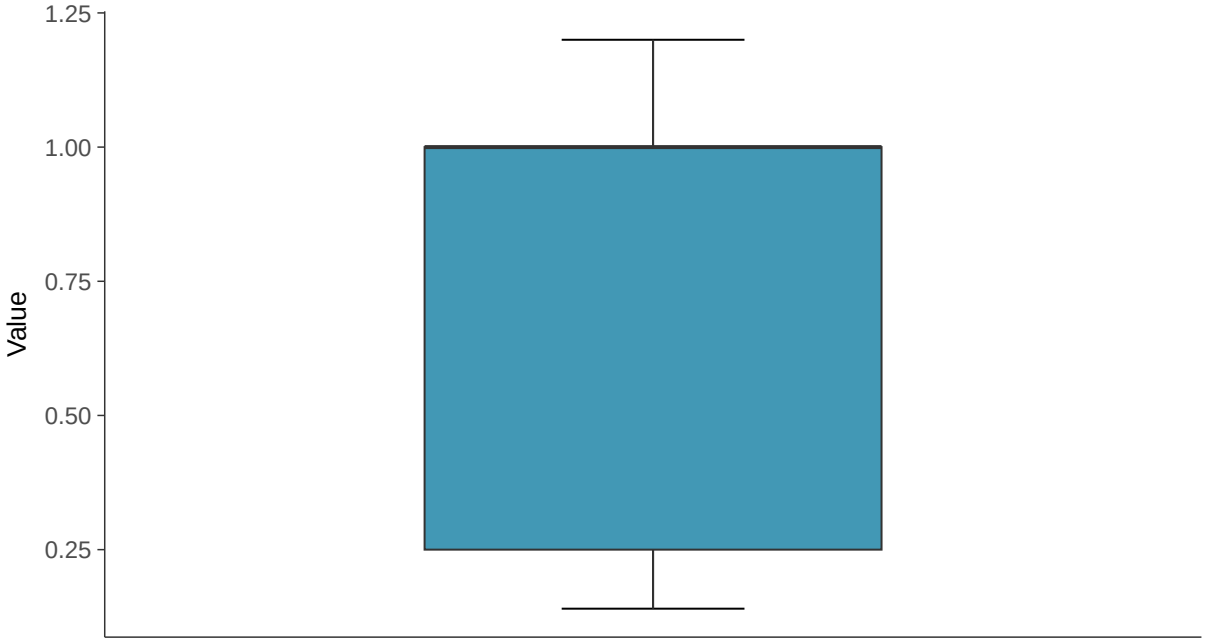
ID: 08_2_104





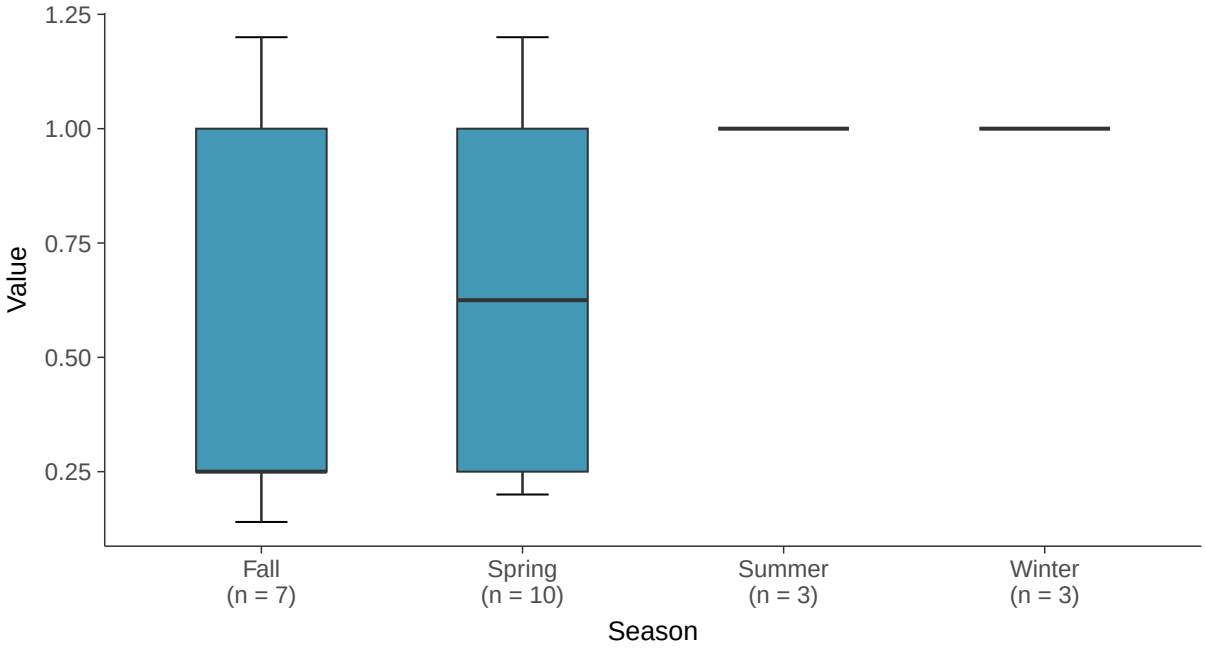
Boxplot

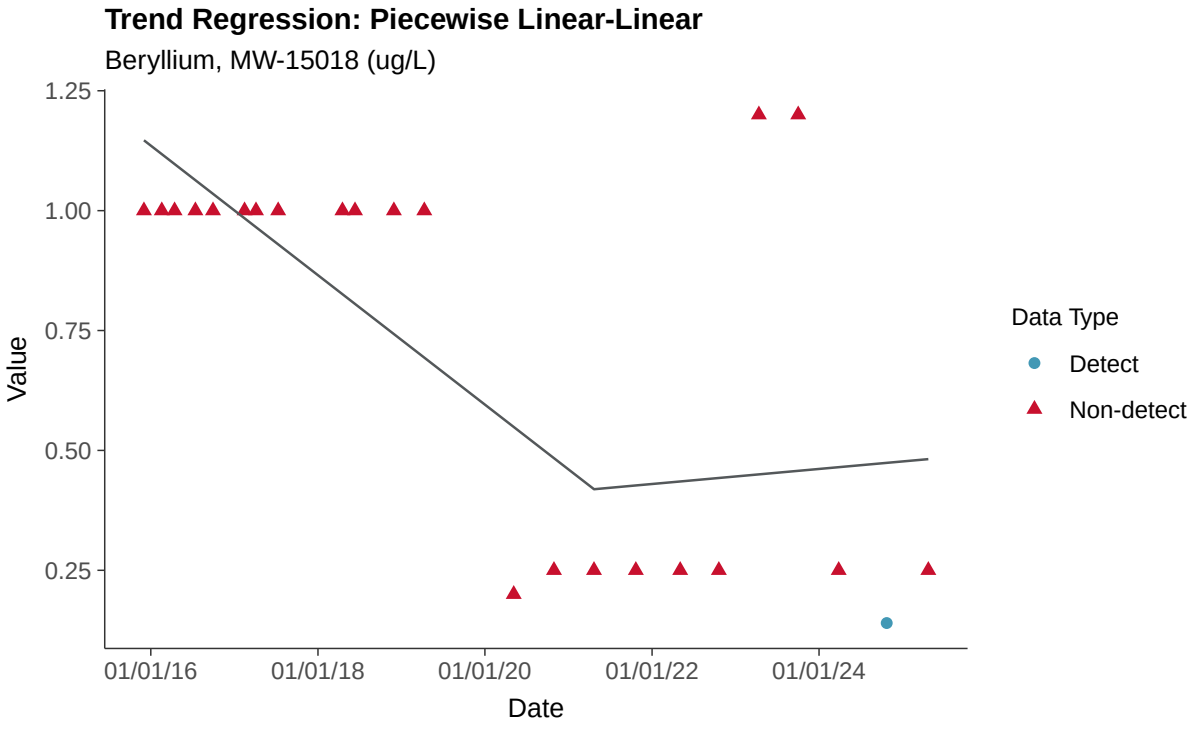
Beryllium, MW-15018 (ug/L)



Boxplot by Season

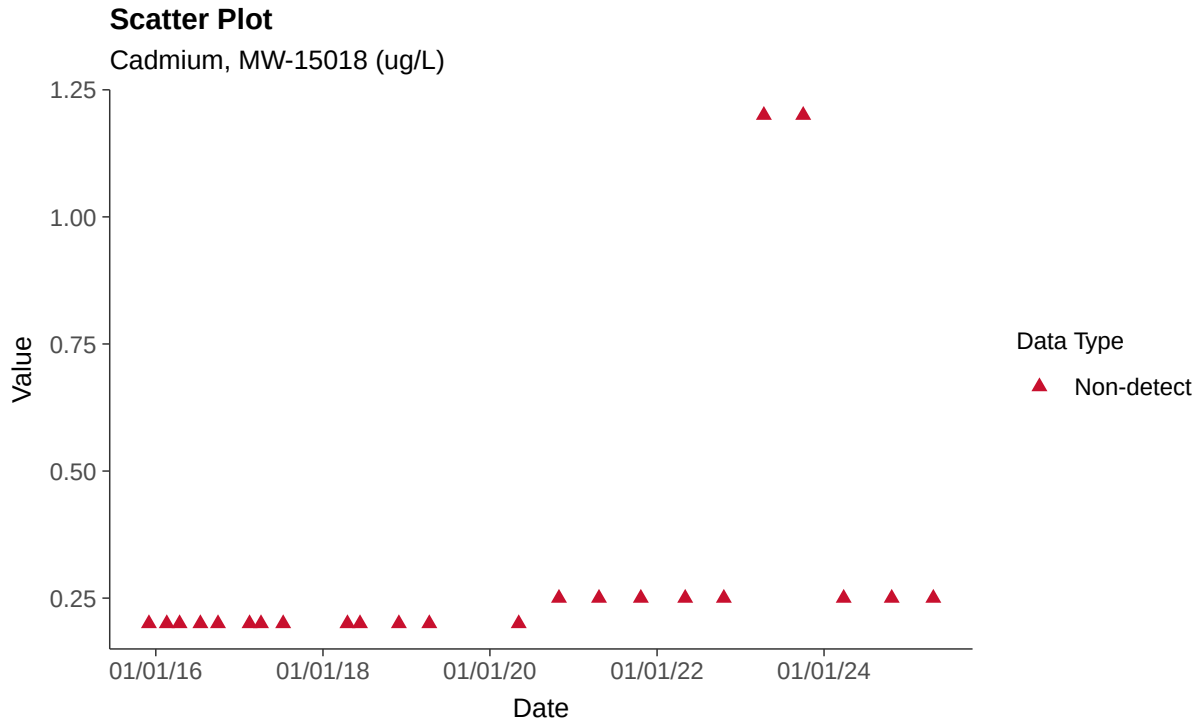
Beryllium, MW-15018 (ug/L)

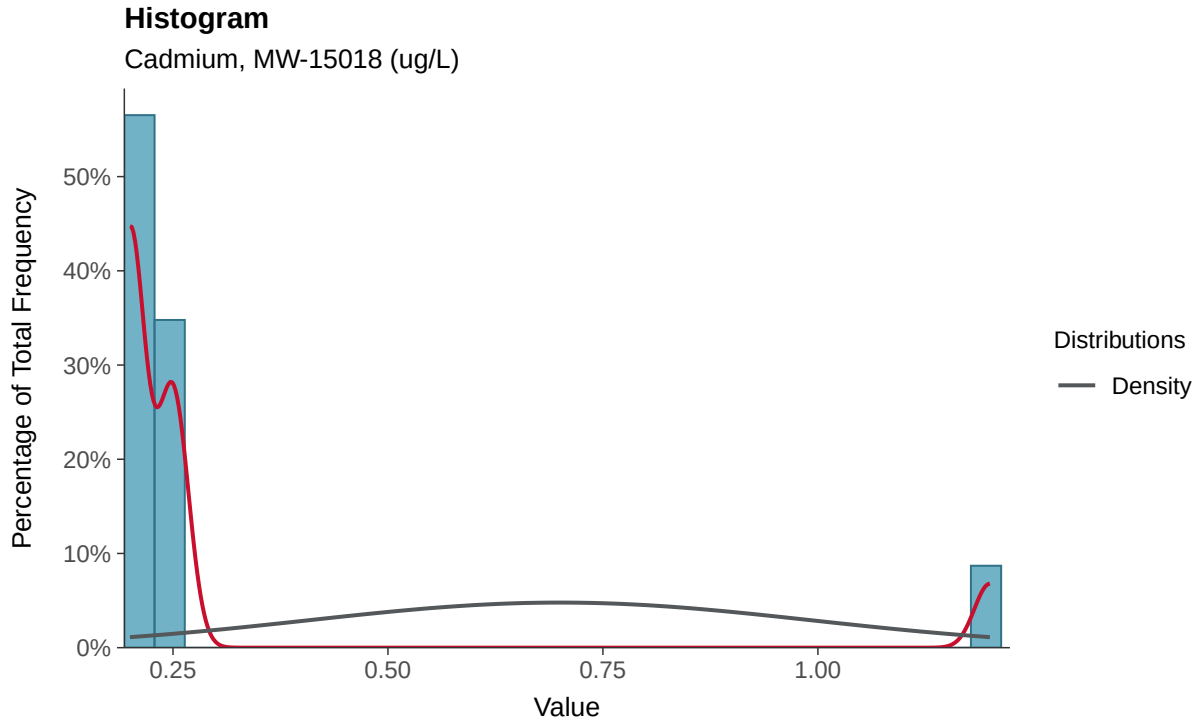



Trend Regression: Piecewise Linear-Linear
Beryllium, MW-15018 (ug/L)
1.25
1.00
0.75
0.50
0.25
Value
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Detect
Non-detect

Appendix IV: Cadmium, MW-15018

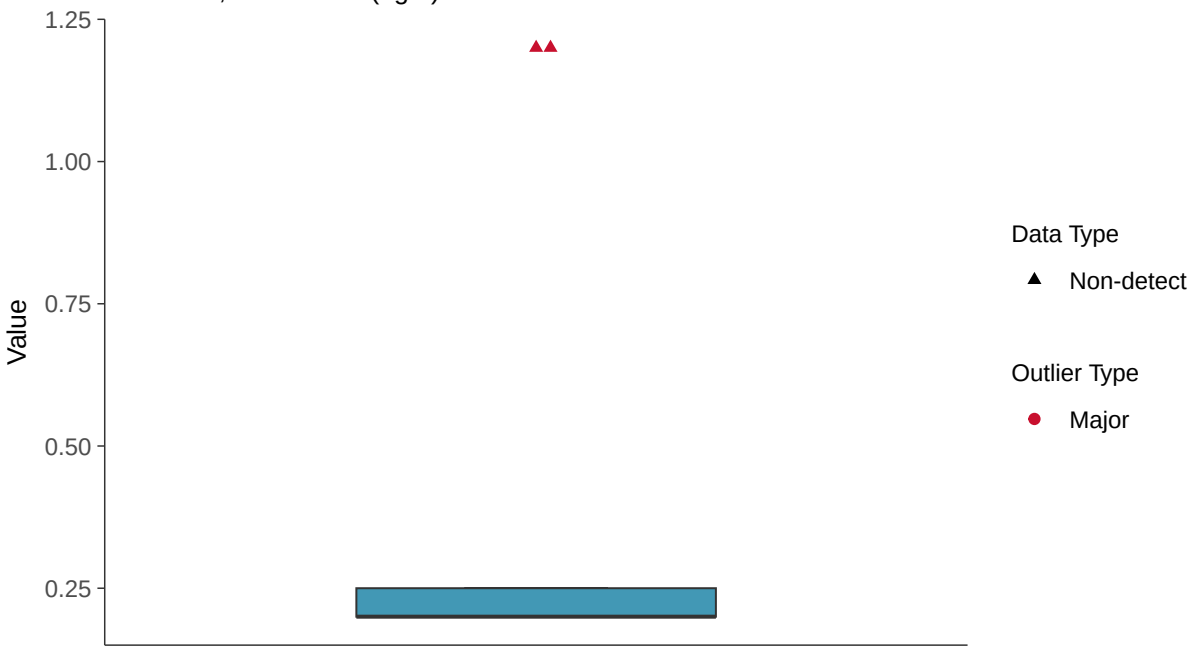
ID: 08_2_106





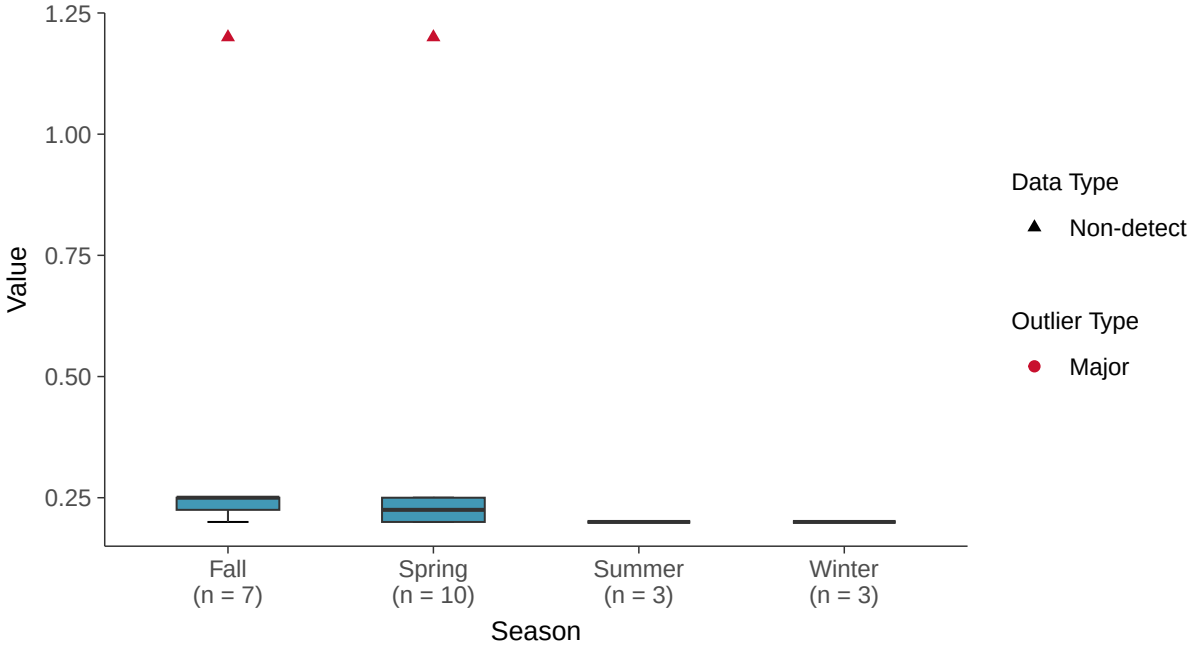
Boxplot

Cadmium, MW-15018 (ug/L)



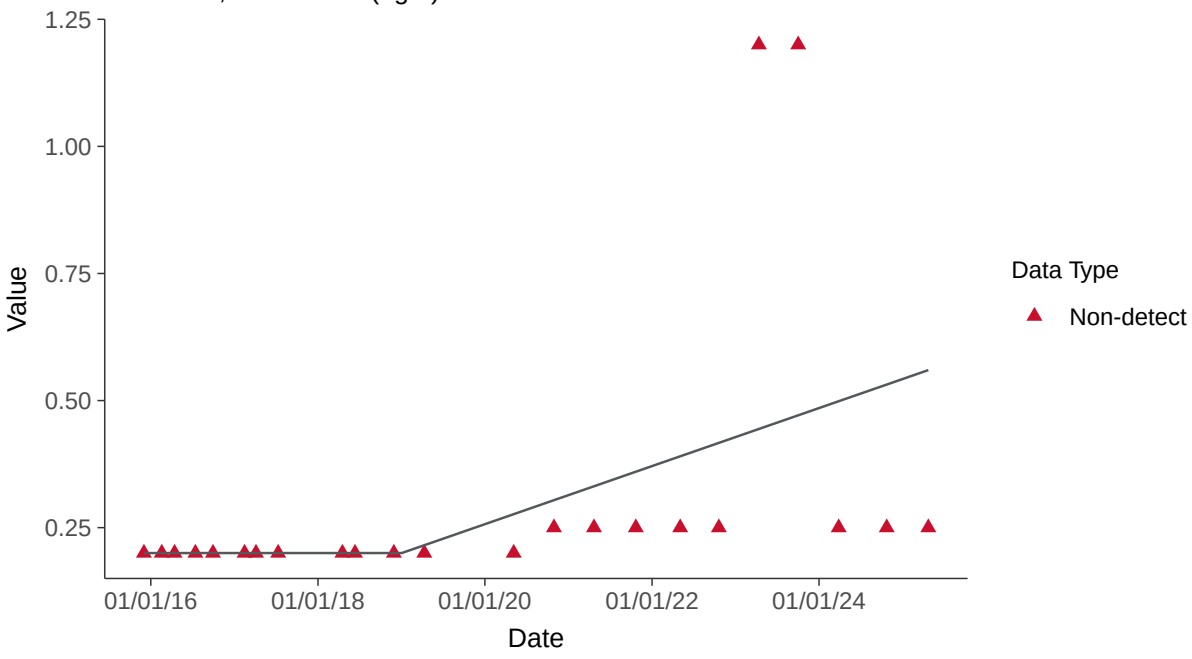
Boxplot by Season

Cadmium, MW-15018 (ug/L)



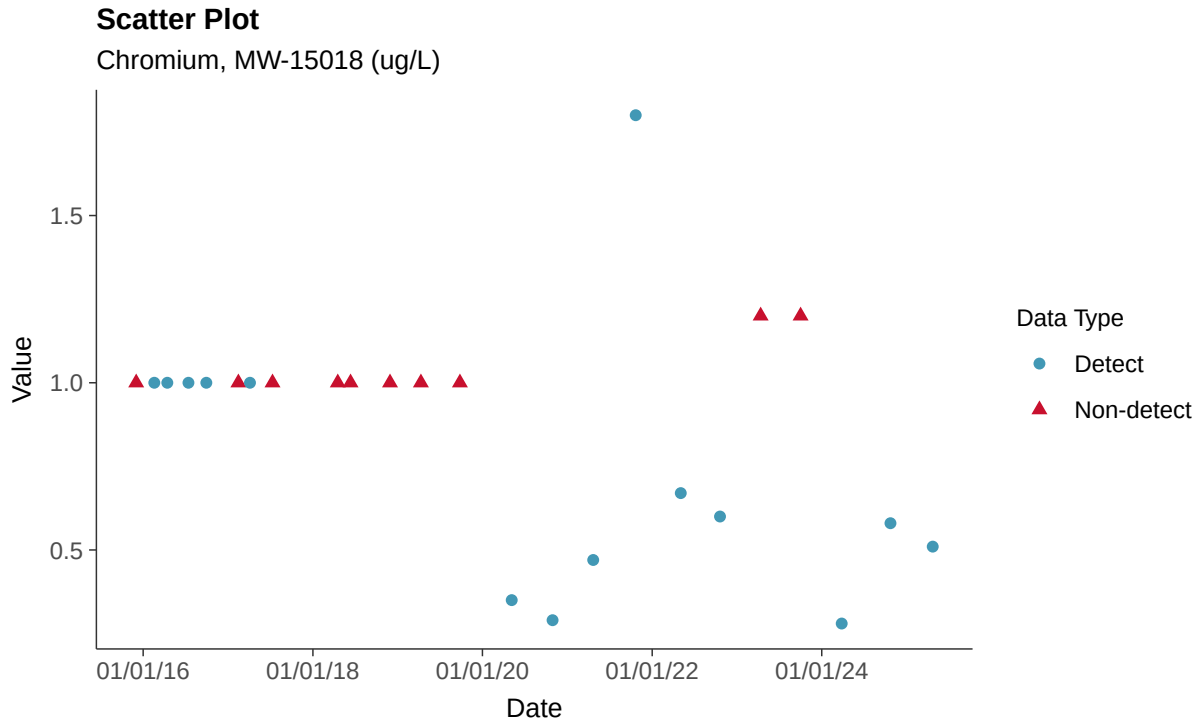
Trend Regression: Piecewise Linear-Linear

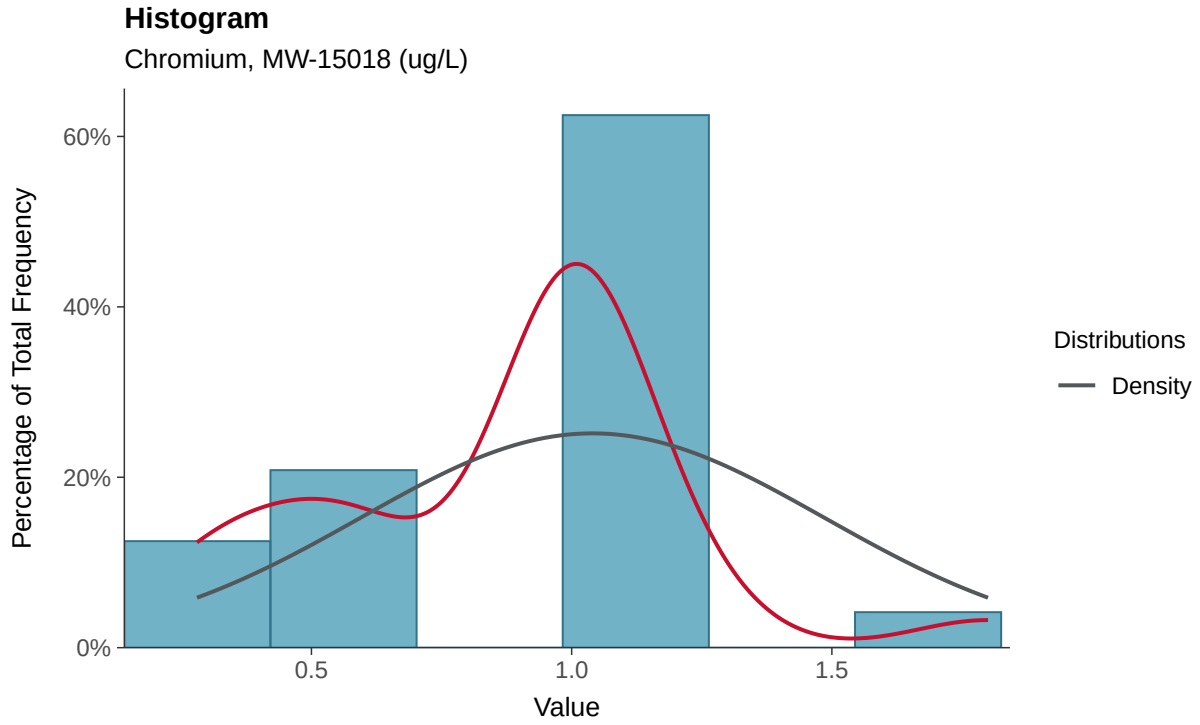
Cadmium, MW-15018 (ug/L)



Appendix IV: Chromium, MW-15018

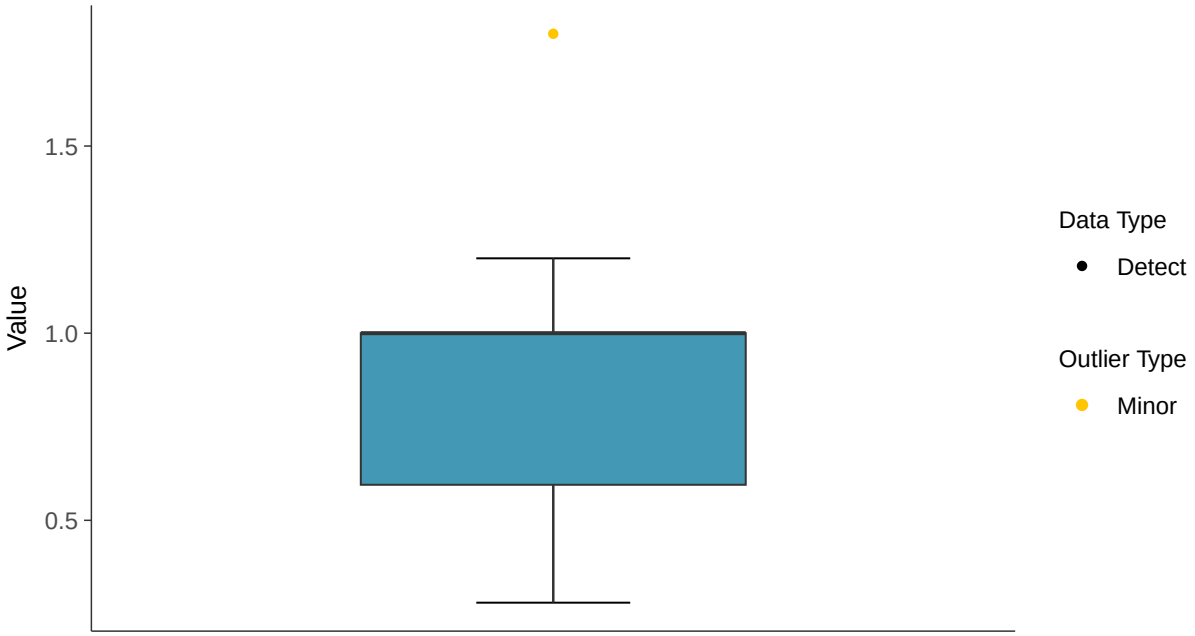
ID: 08_2_109





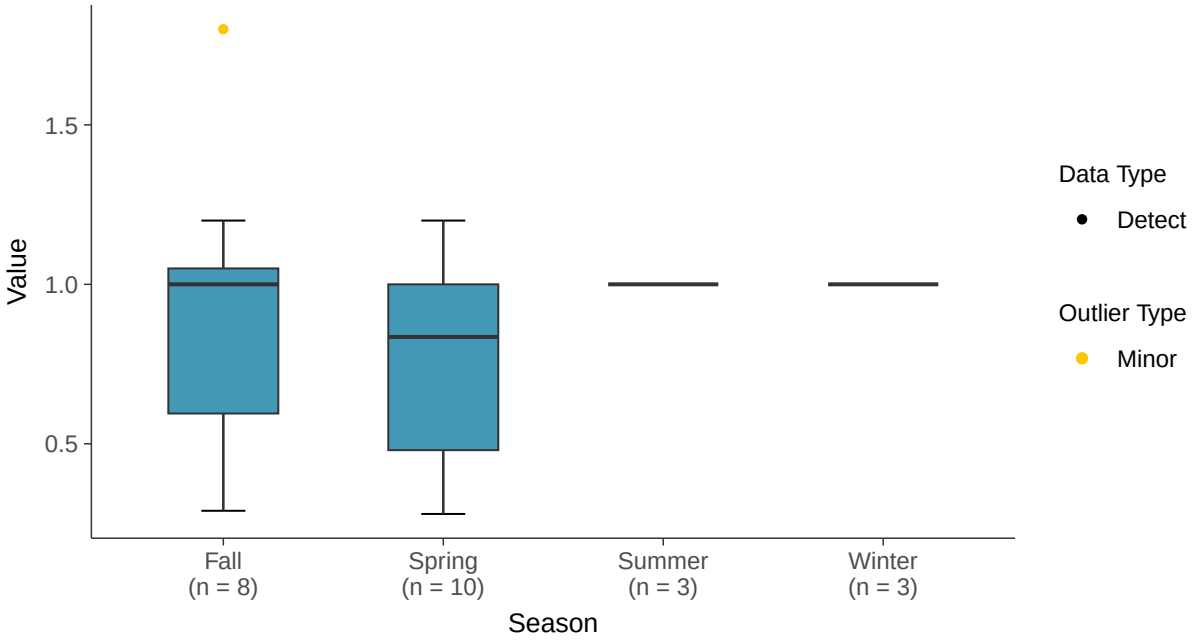
Boxplot

Chromium, MW-15018 (ug/L)



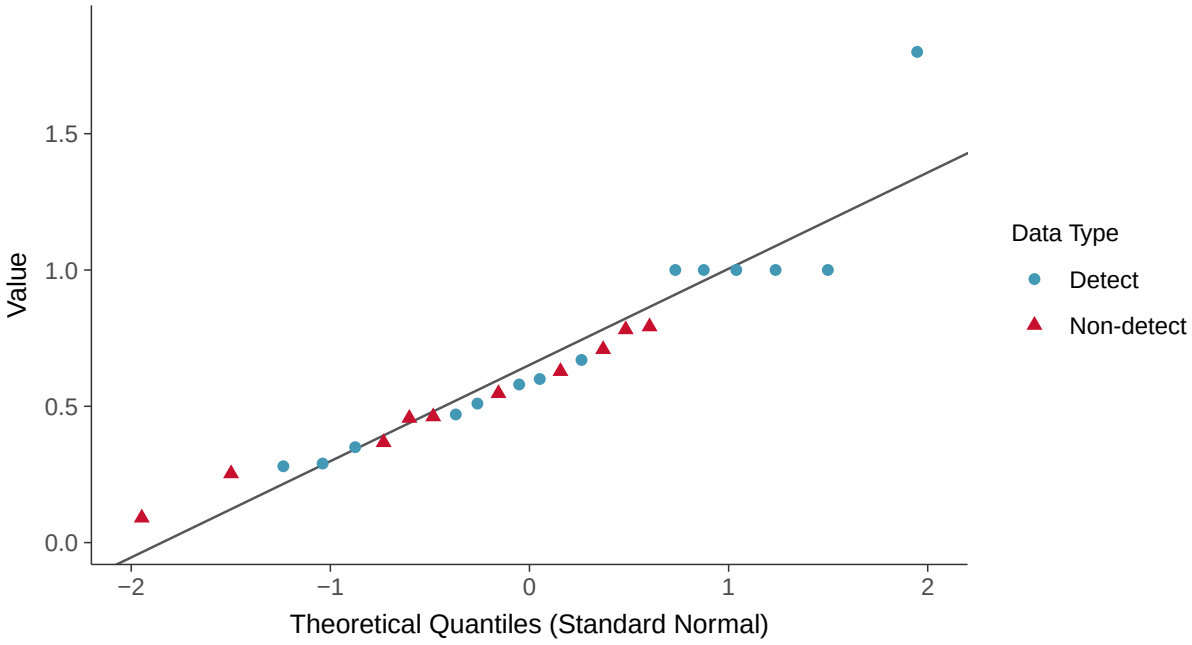
Boxplot by Season

Chromium, MW-15018 (ug/L)



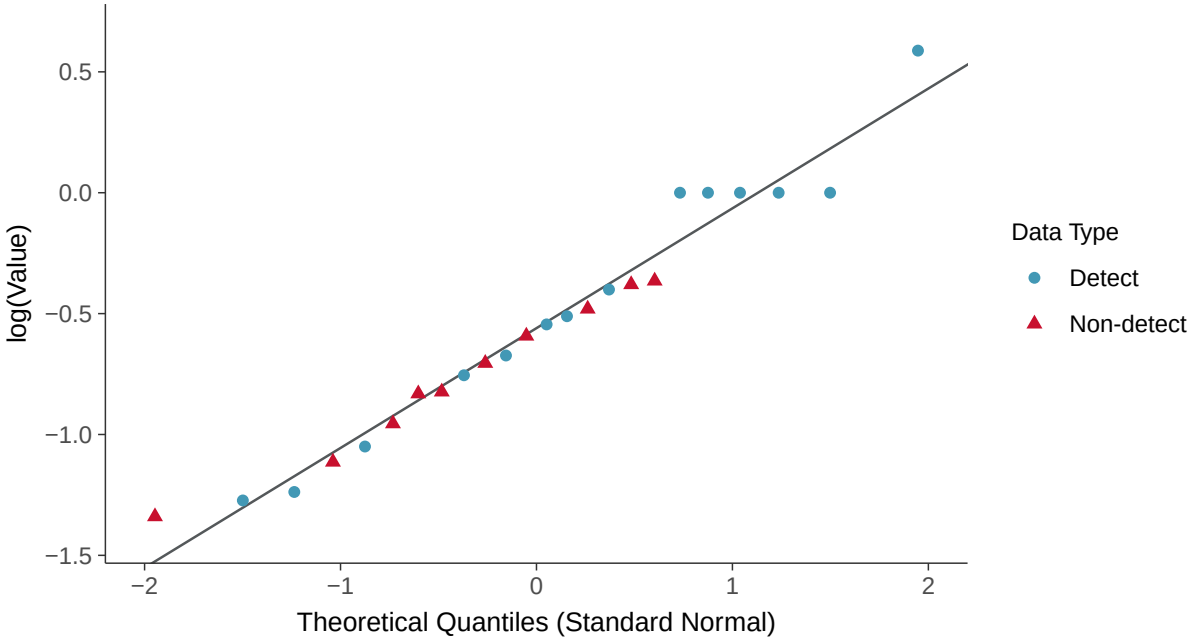
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15018 (ug/L)



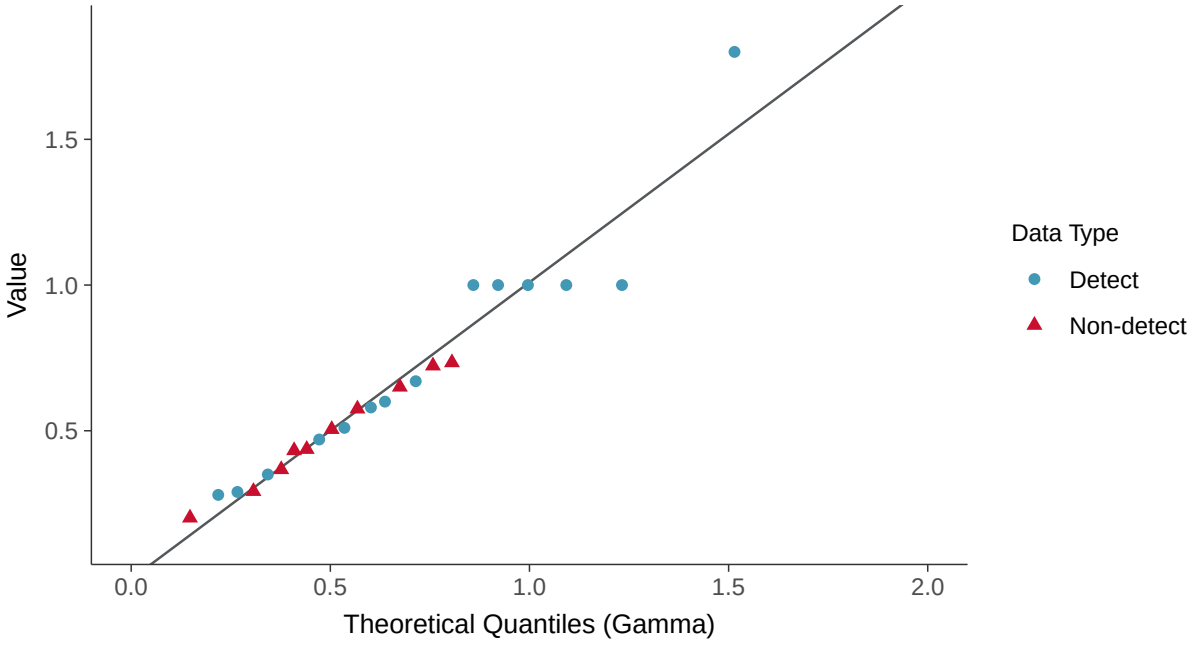
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15018 (ug/L)



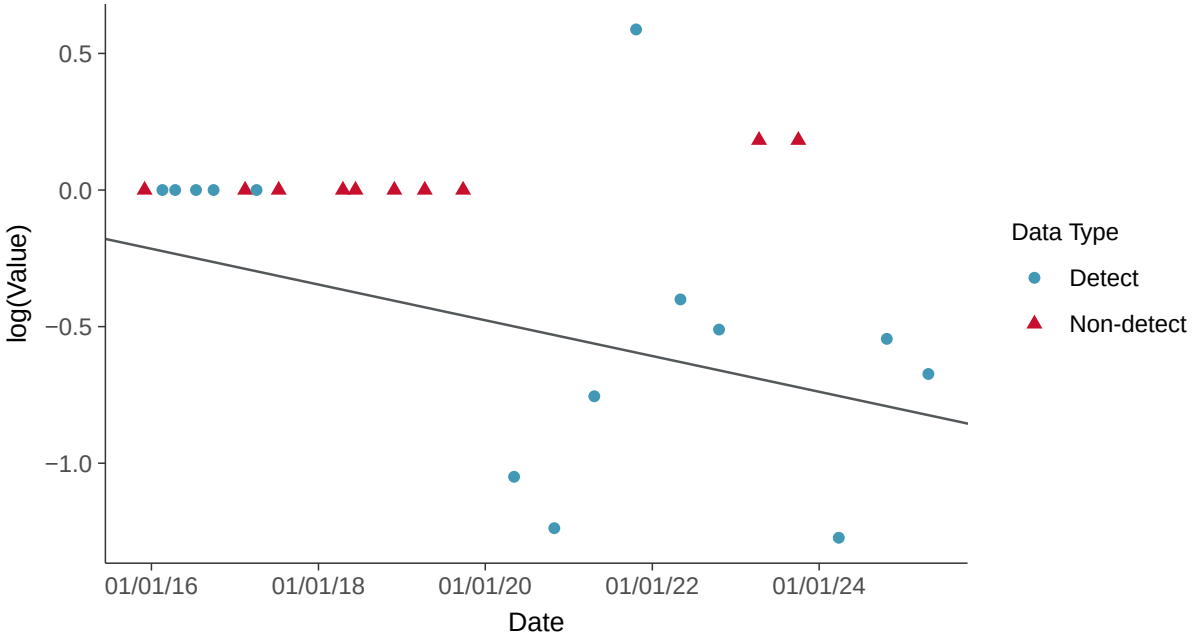
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, MW-15018 (ug/L)



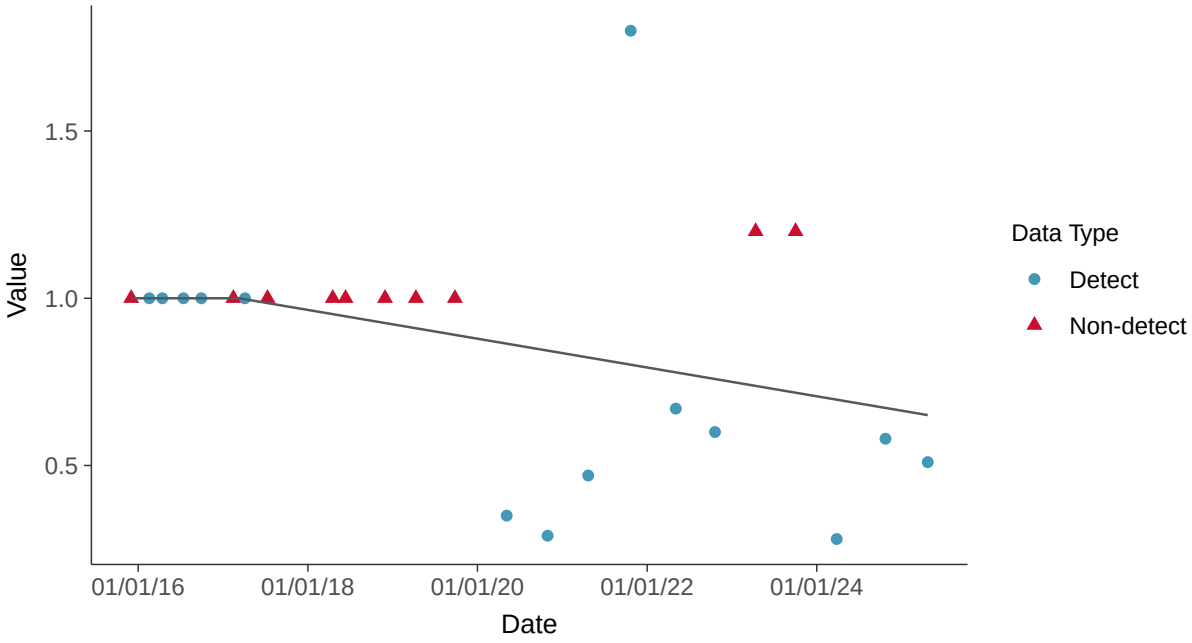
Trend Regression: Lognormal MLE

Chromium, MW-15018 (ug/L)



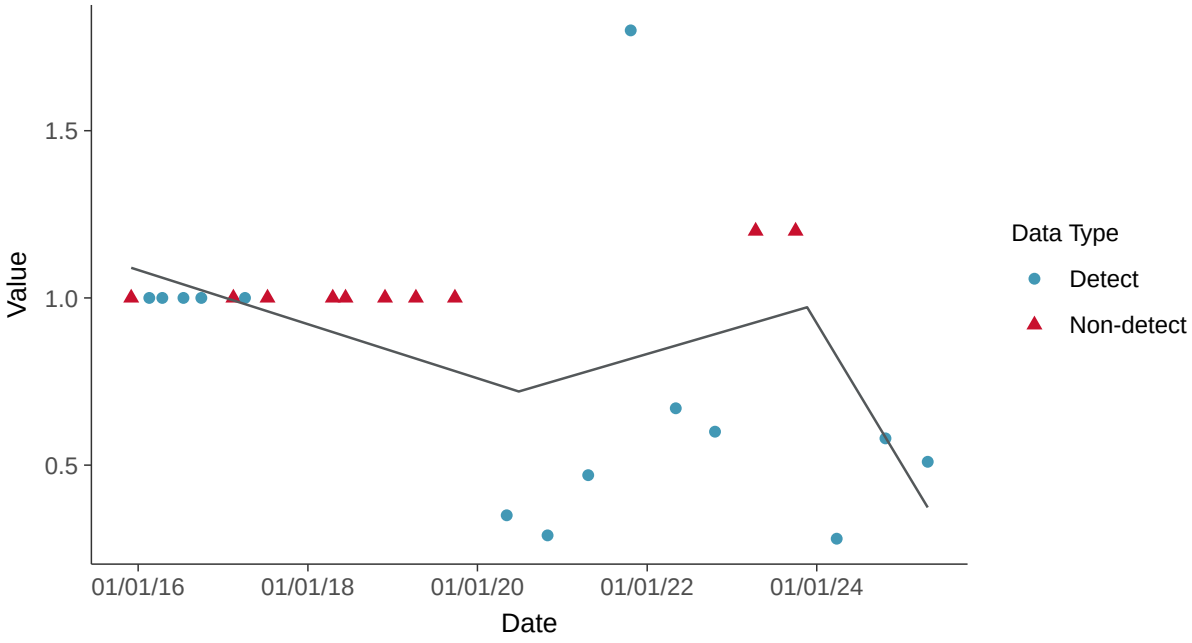
Trend Regression: Piecewise Linear-Linear

Chromium, MW-15018 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, MW-15018 (ug/L)

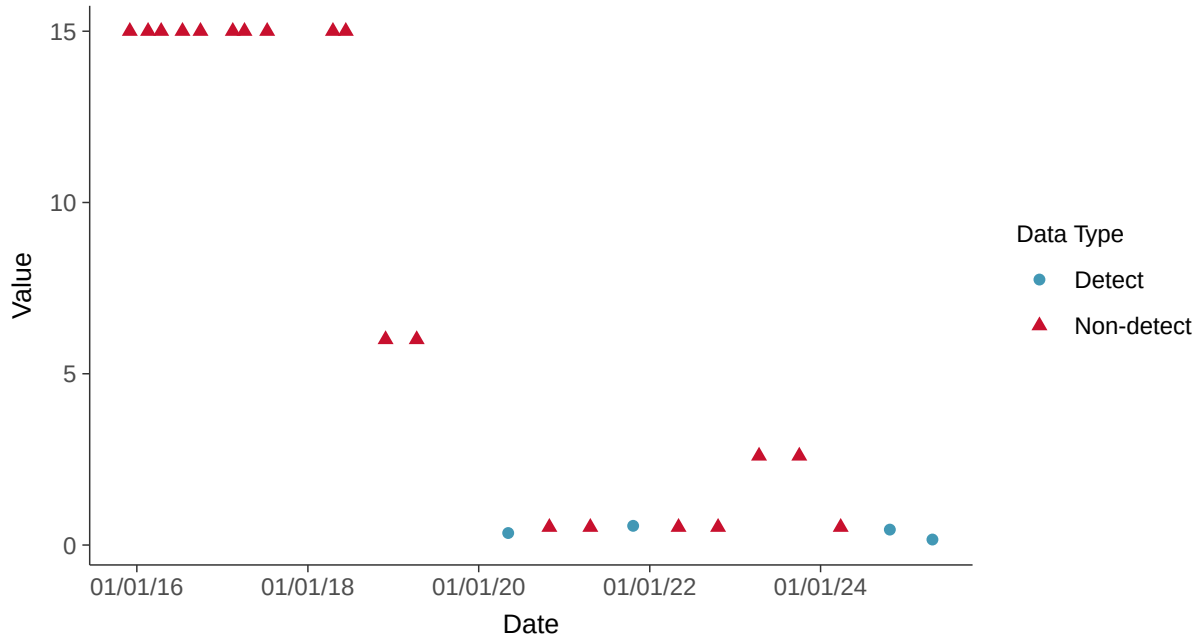


Appendix IV: Cobalt, MW-15018

ID: 08_2_110

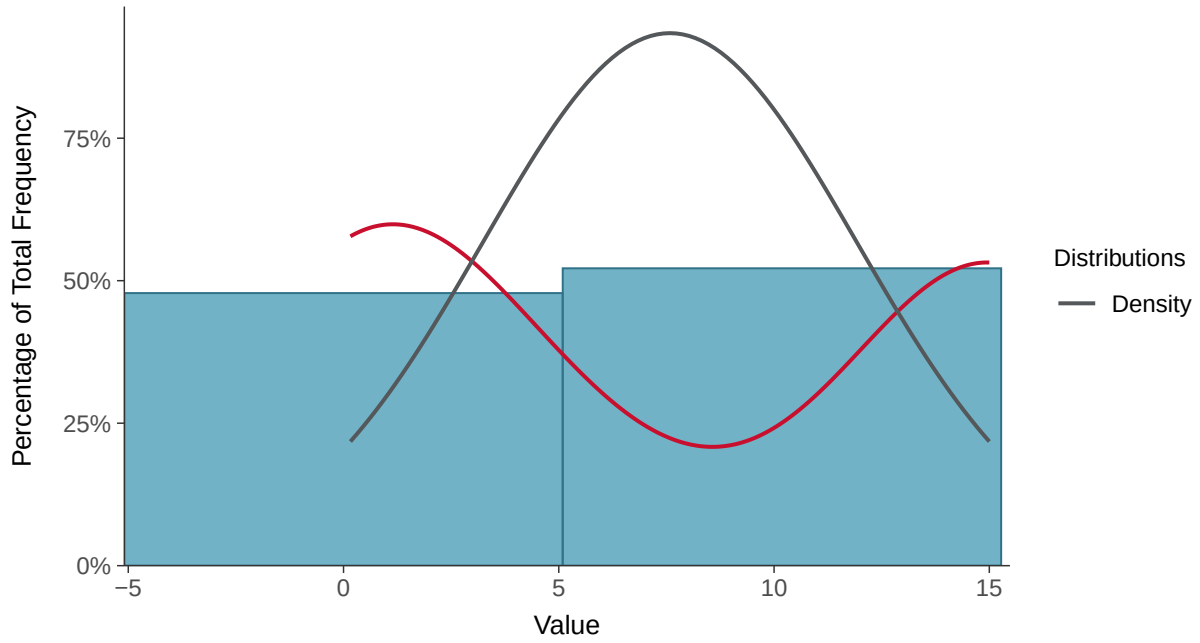
Scatter Plot

Cobalt, MW-15018 (ug/L)



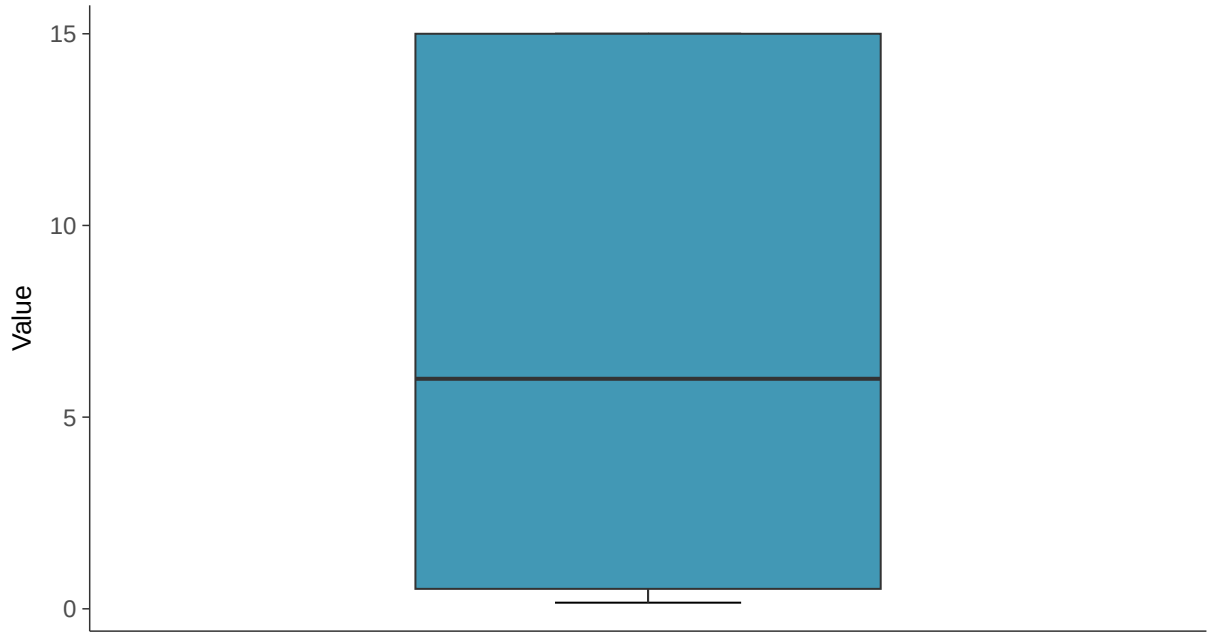
Histogram

Cobalt, MW-15018 (ug/L)



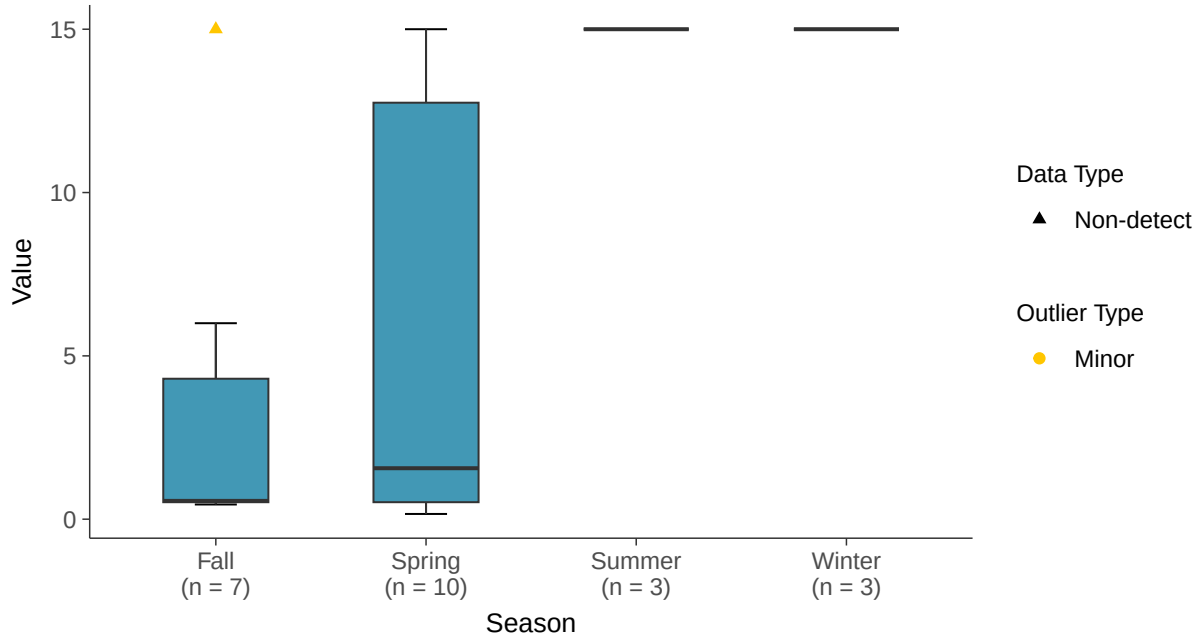
Boxplot

Cobalt, MW-15018 (ug/L)



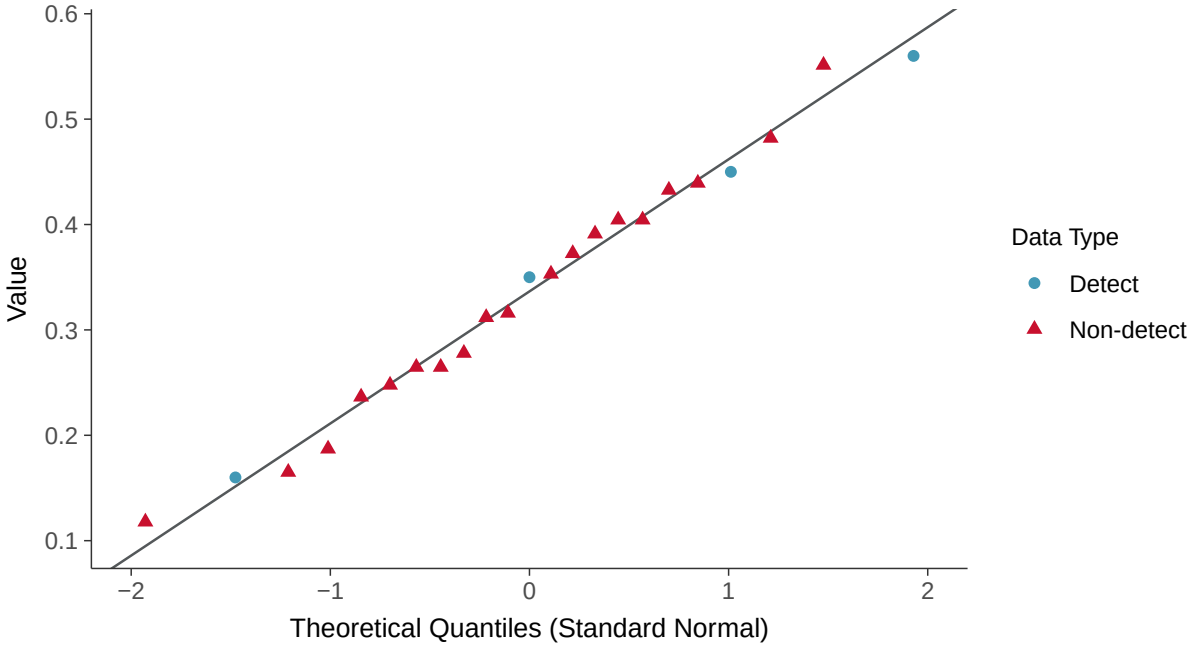
Boxplot by Season

Cobalt, MW-15018 (ug/L)



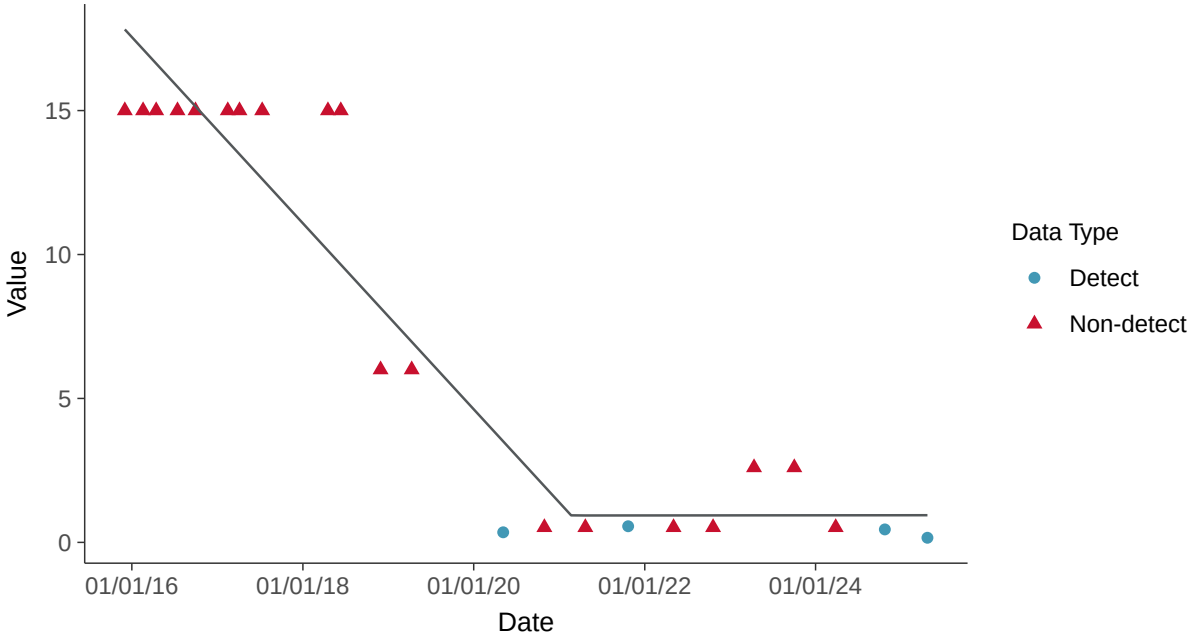
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15018 (ug/L)



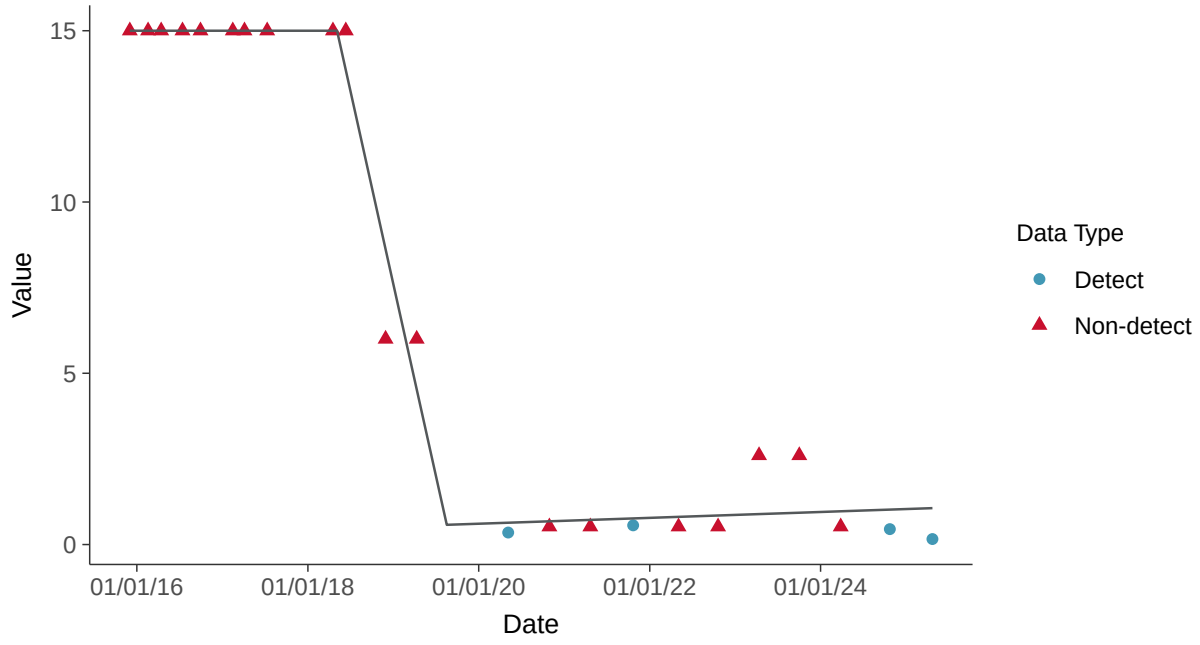
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15018 (ug/L)



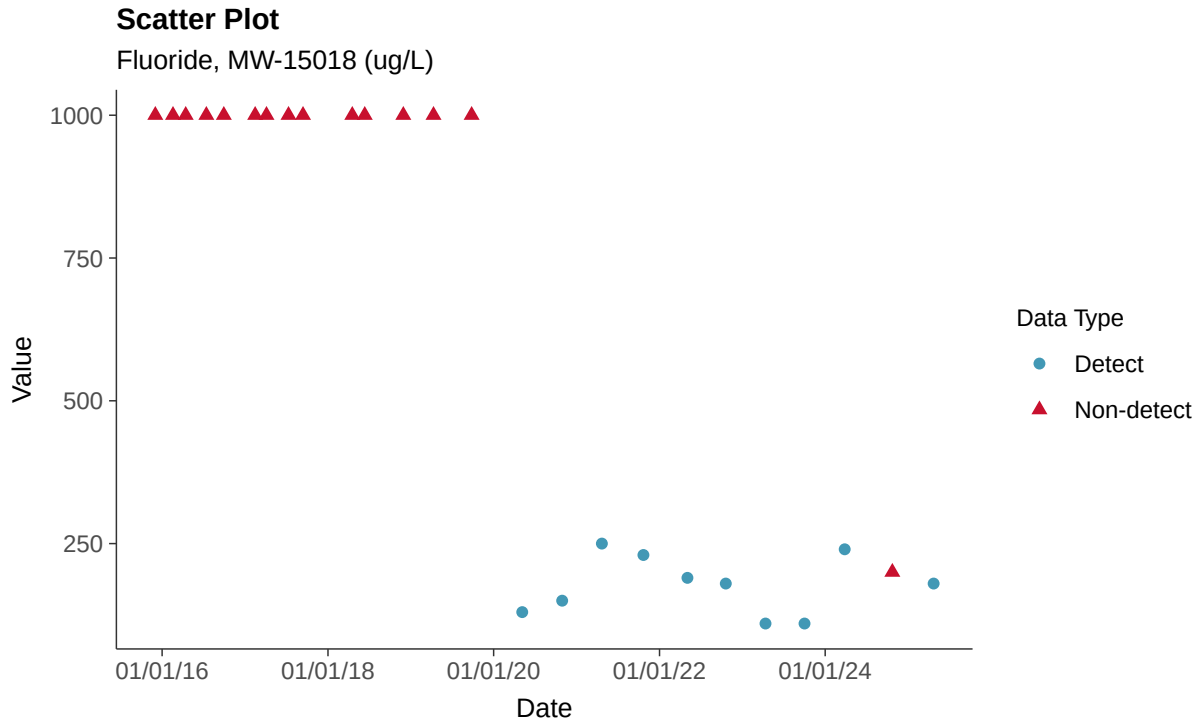
Trend Regression: Piecewise Linear-Linear-Linear

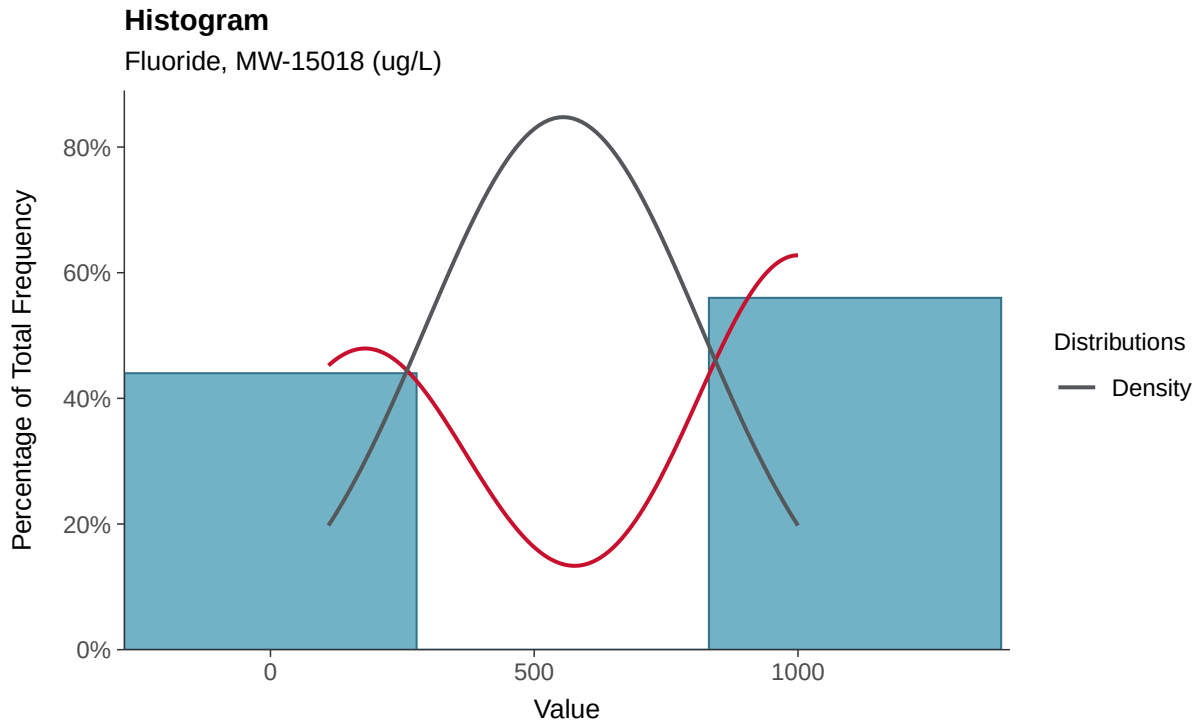
Cobalt, MW-15018 (ug/L)



Appendix IV: Fluoride, MW-15018

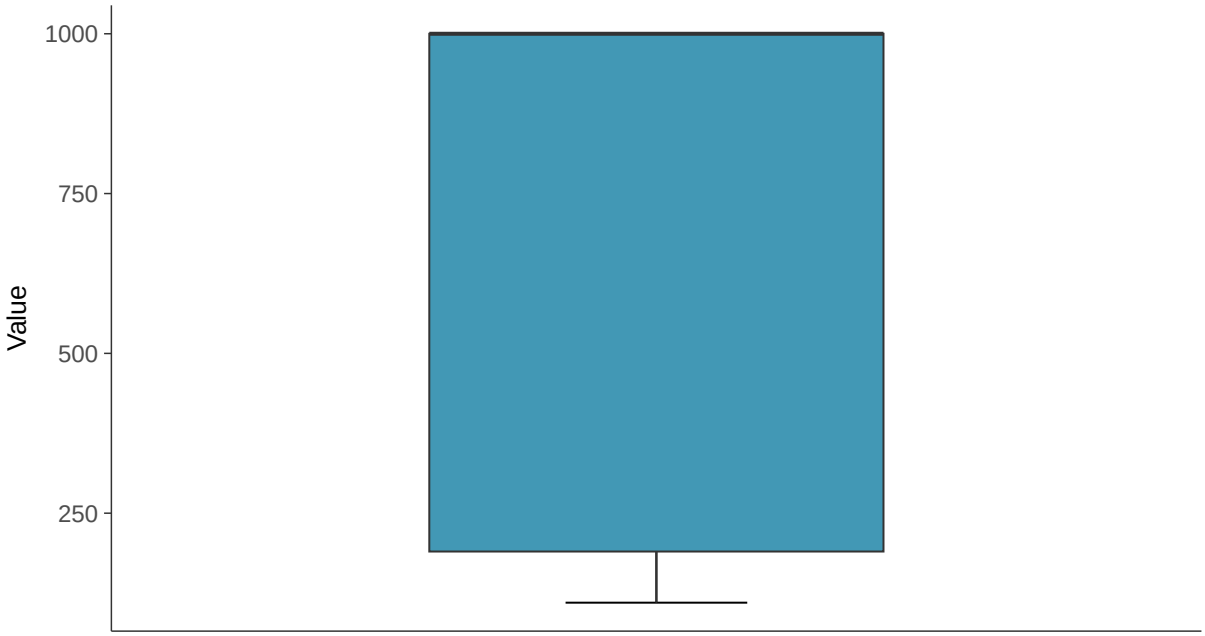
ID: 08_2_114





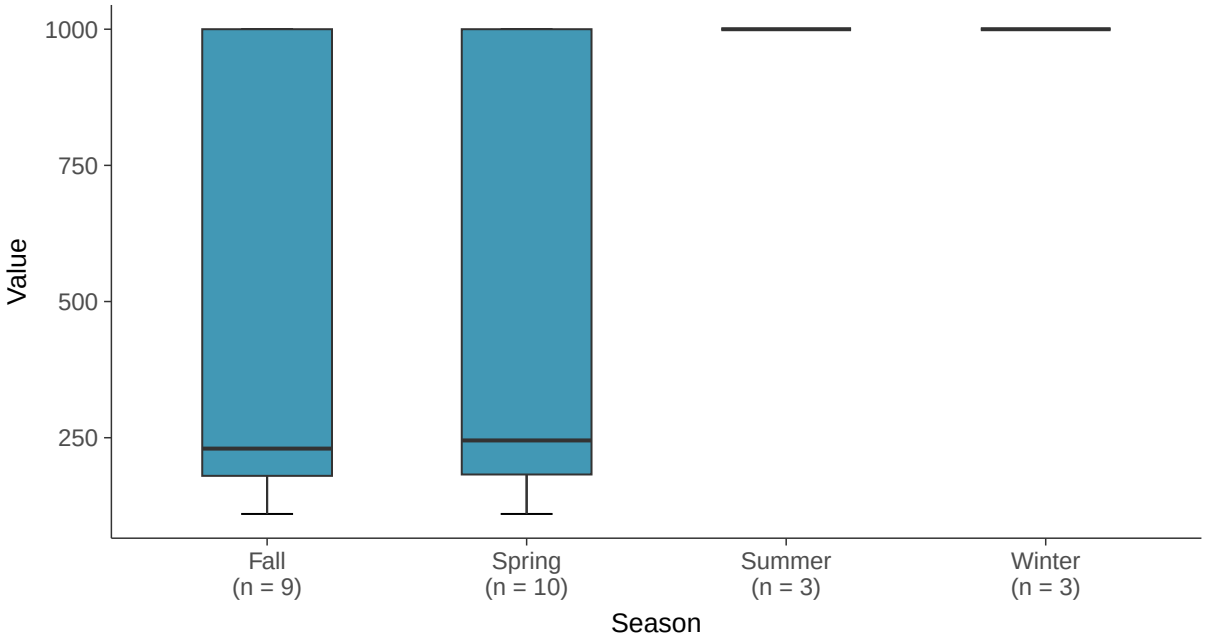
Boxplot

Fluoride, MW-15018 (ug/L)



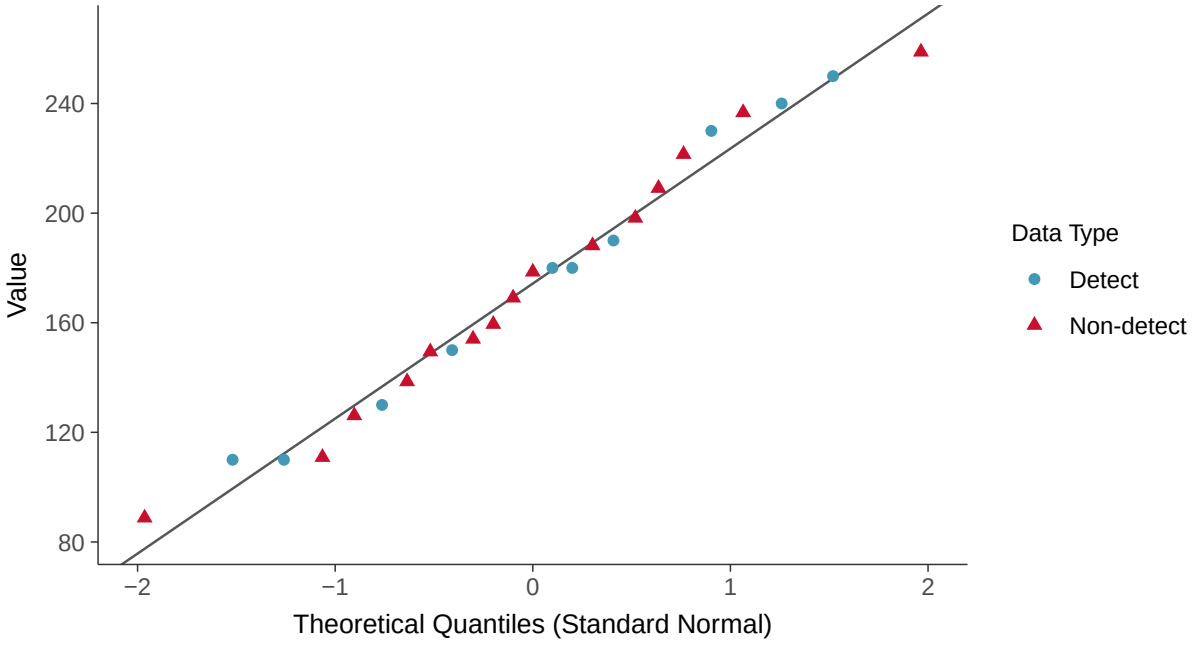
Boxplot by Season

Fluoride, MW-15018 (ug/L)



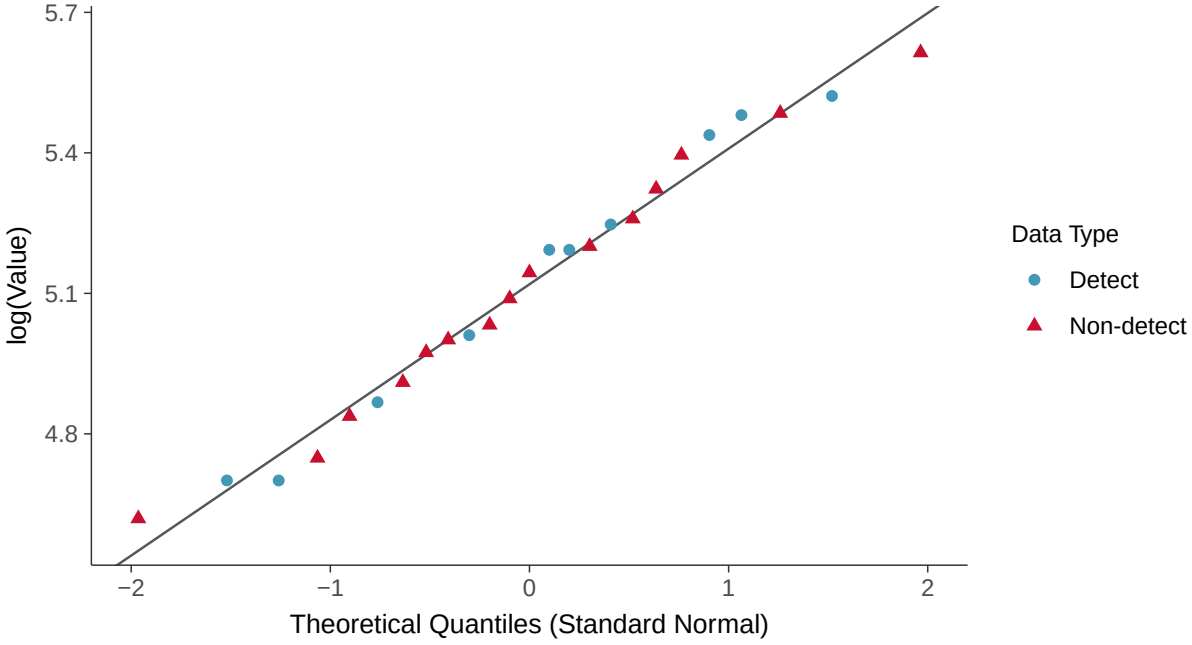
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15018 (ug/L)



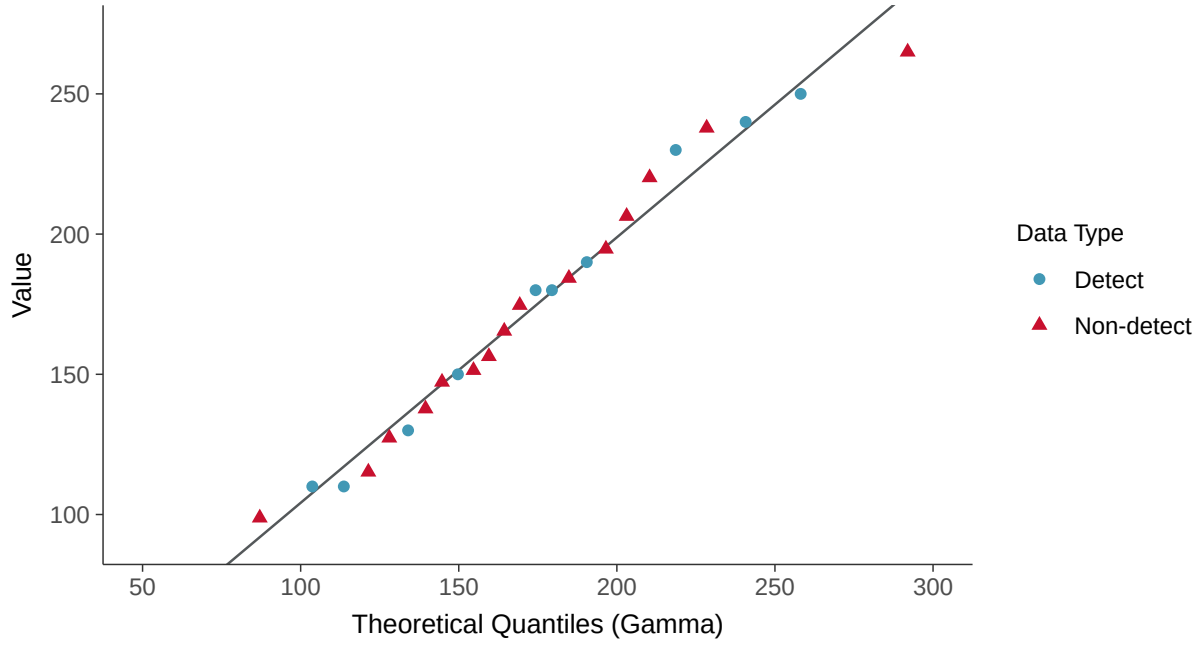
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15018 (ug/L)



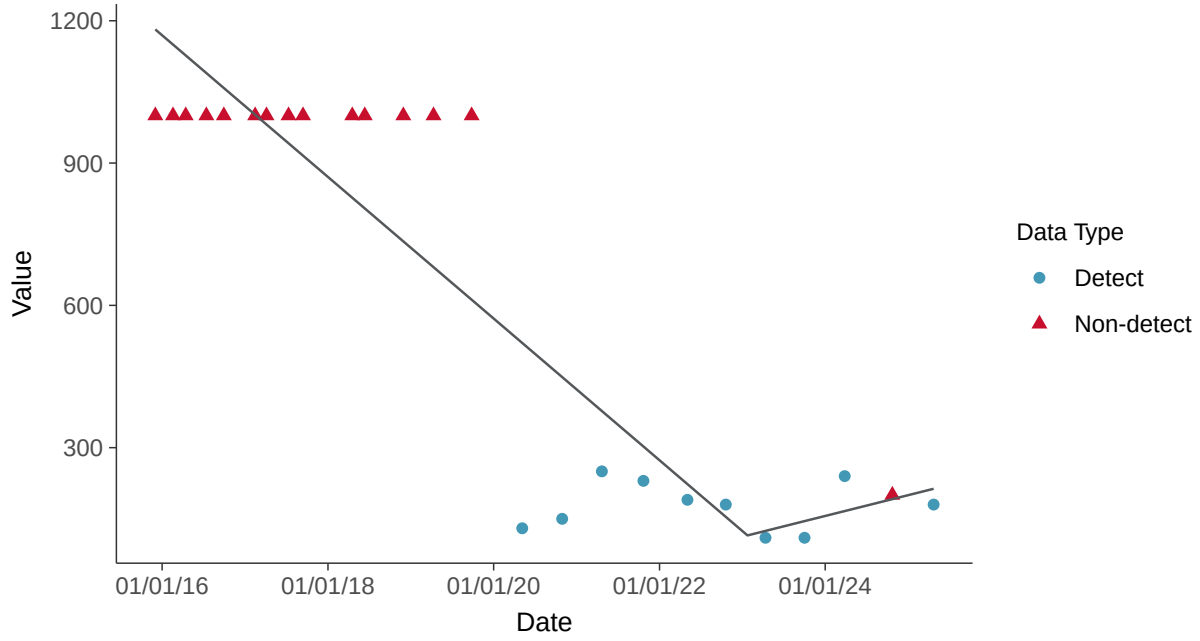
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15018 (ug/L)



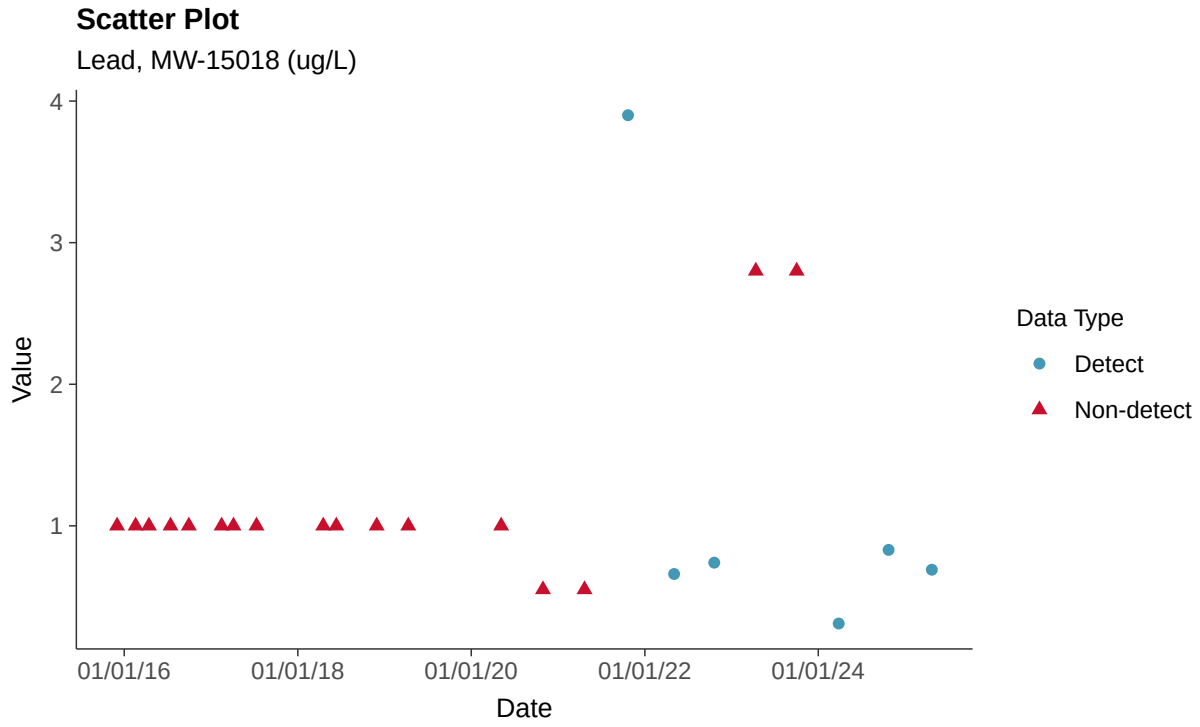
Trend Regression: Piecewise Linear-Linear

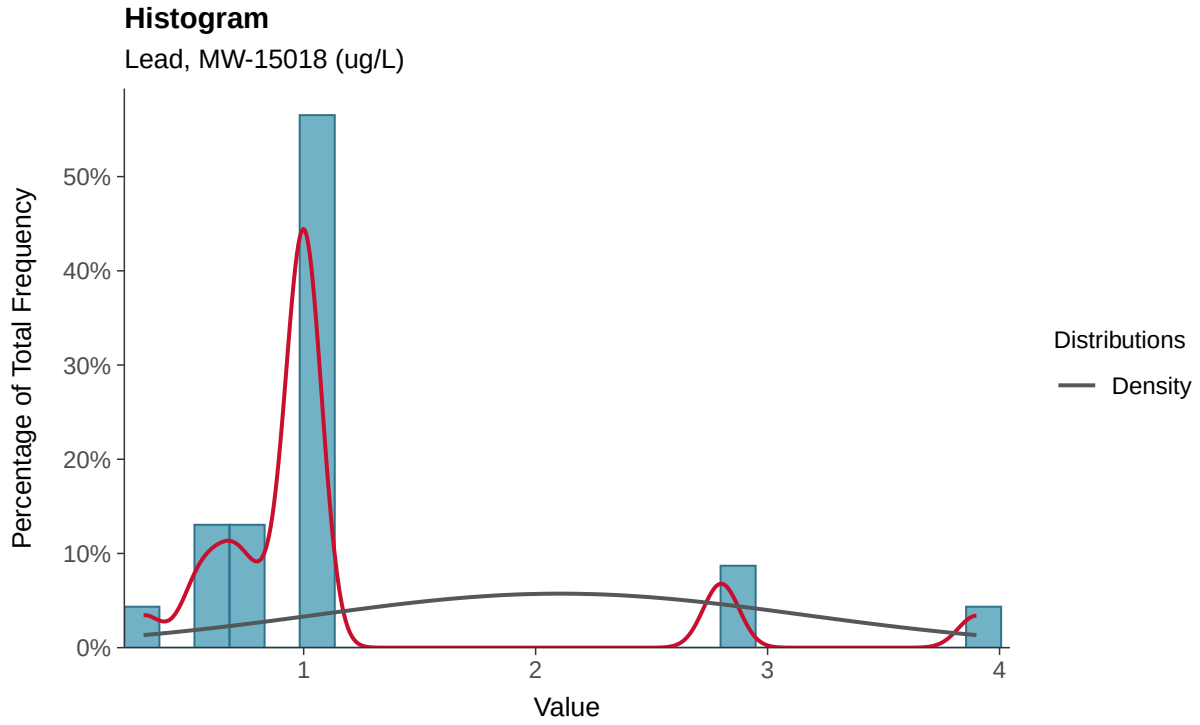
Fluoride, MW-15018 (ug/L)



Appendix IV: Lead, MW-15018

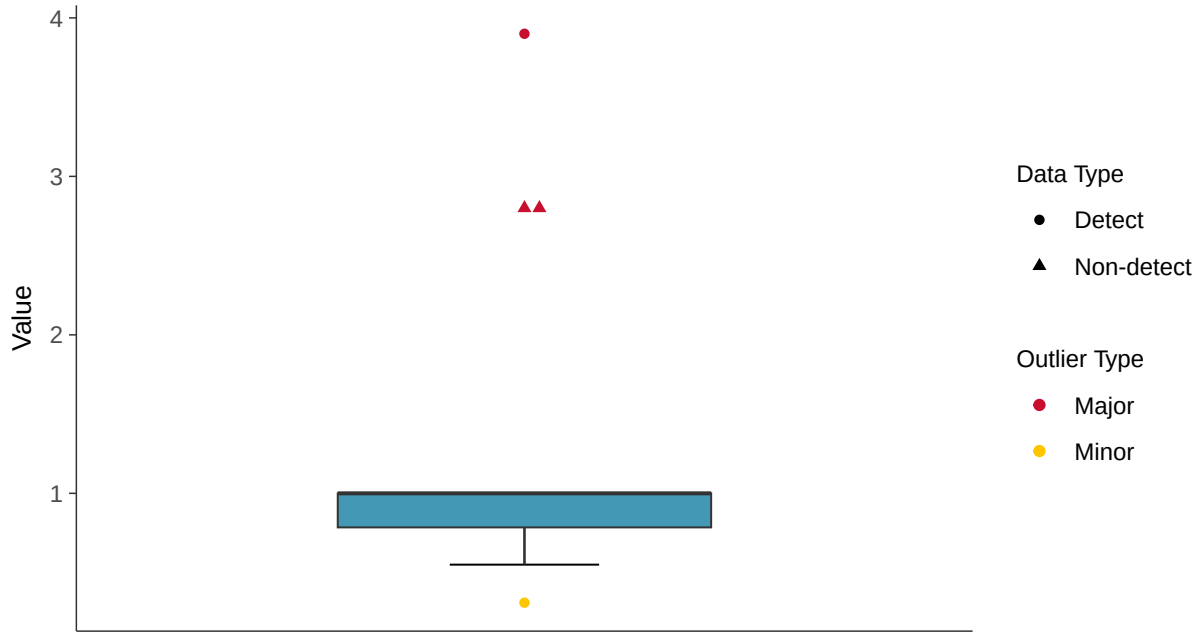
ID: 08_2_116





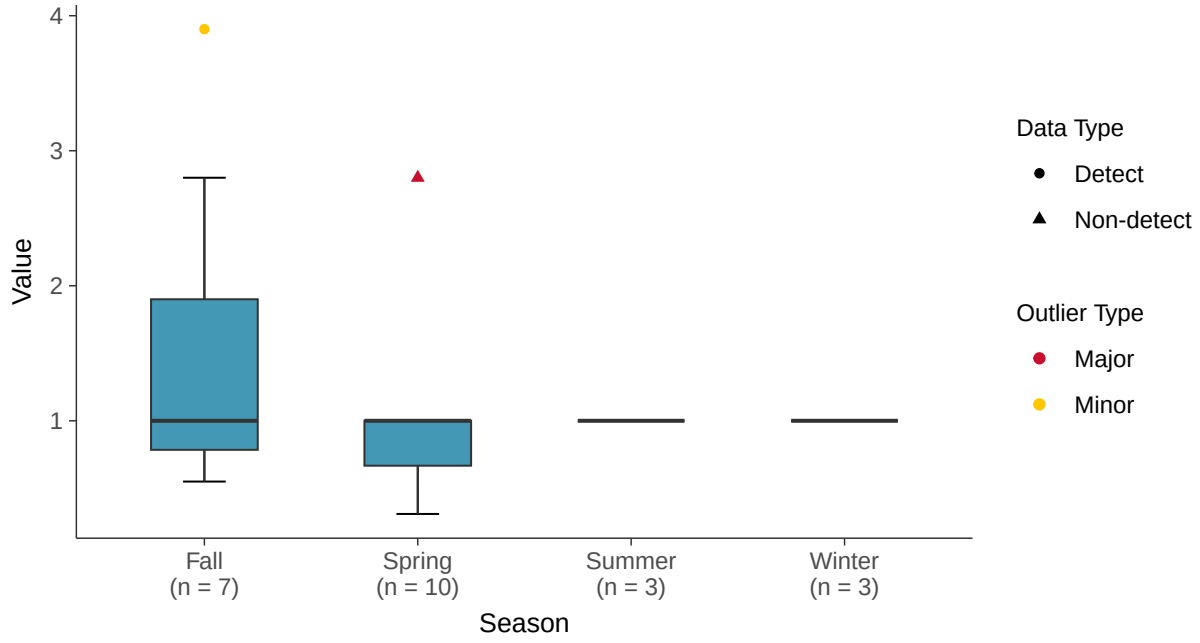
Boxplot

Lead, MW-15018 (ug/L)



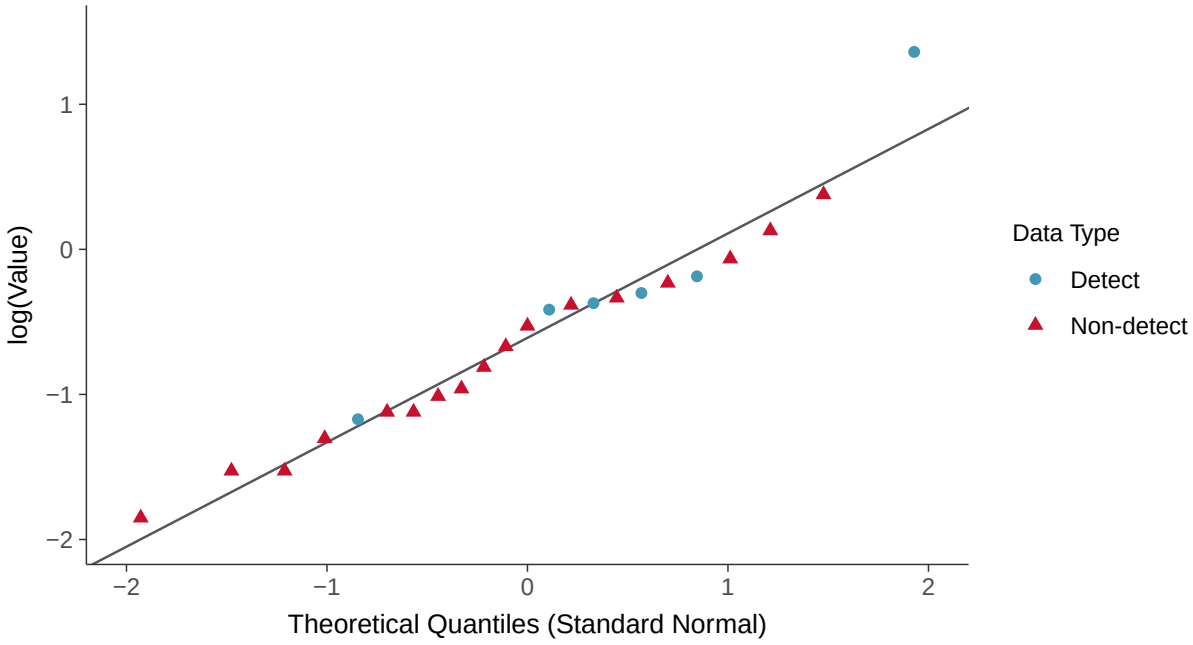
Boxplot by Season

Lead, MW-15018 (ug/L)



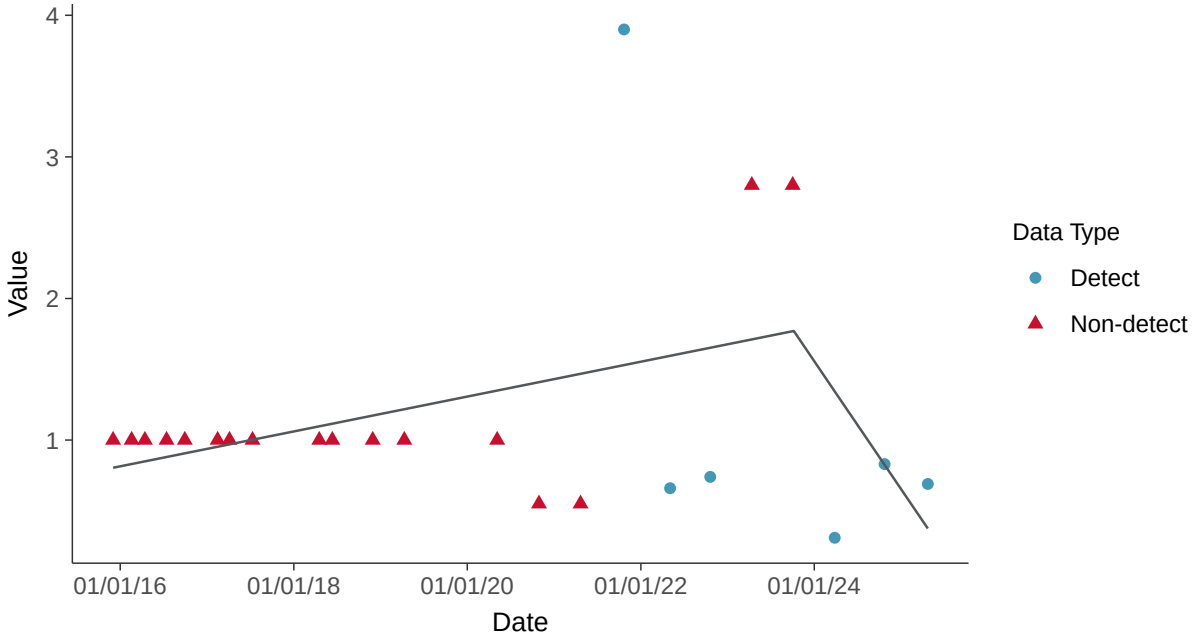
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-15018 (ug/L)



Trend Regression: Piecewise Linear-Linear

Lead, MW-15018 (ug/L)

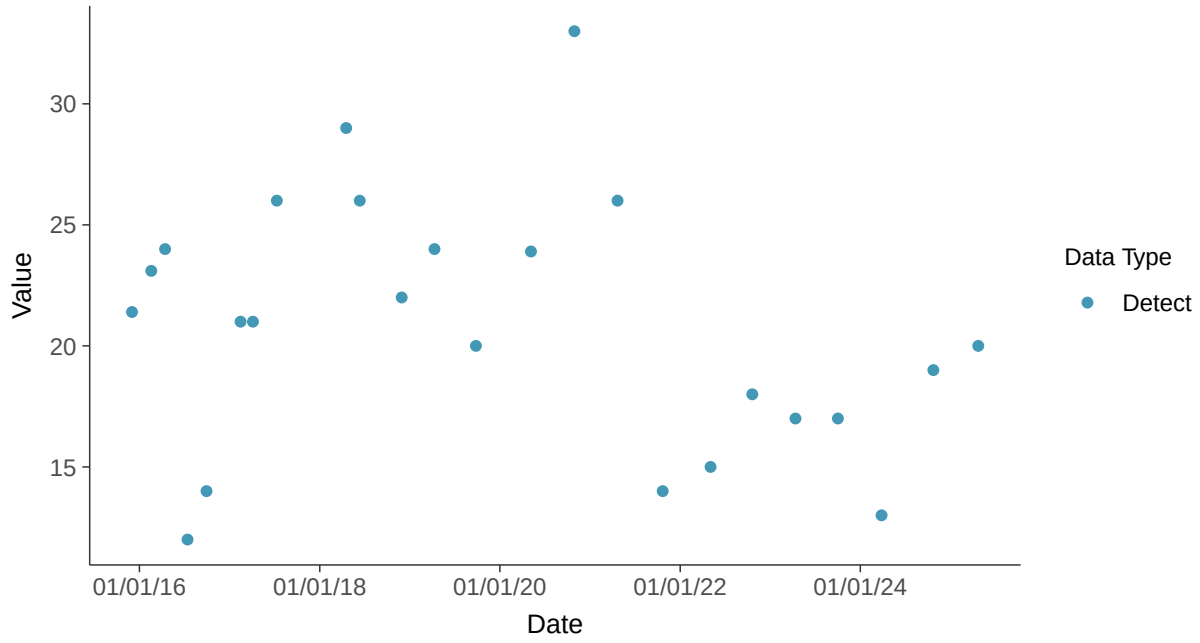


Appendix IV: Lithium, MW-15018

ID: 08_2_117

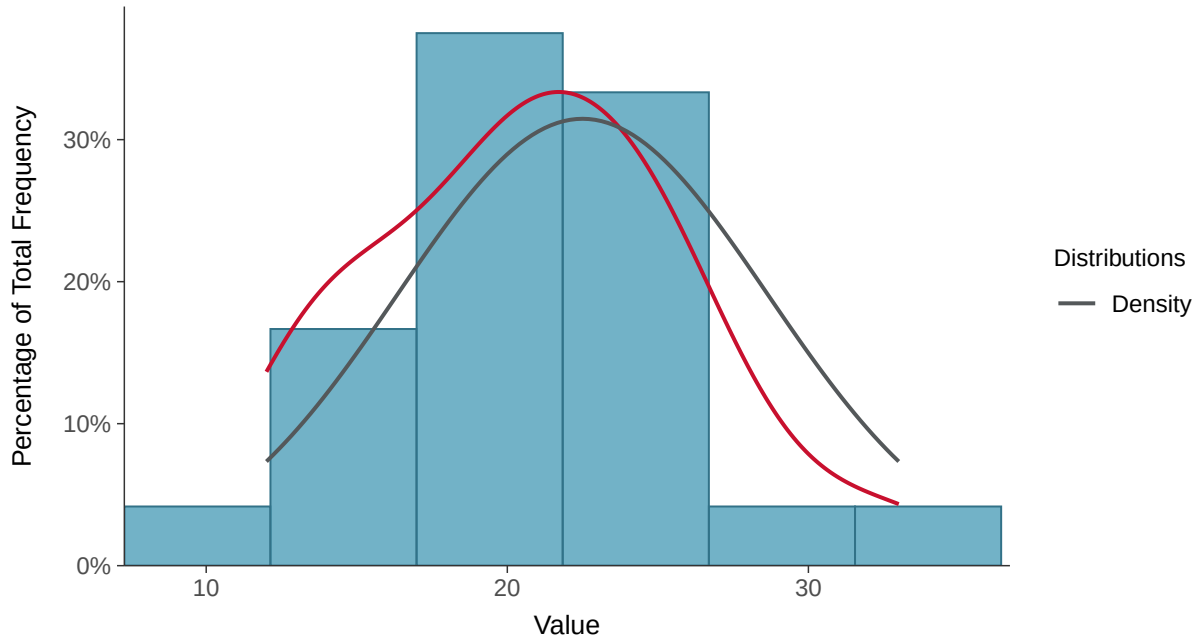
Scatter Plot

Lithium, MW-15018 (ug/L)



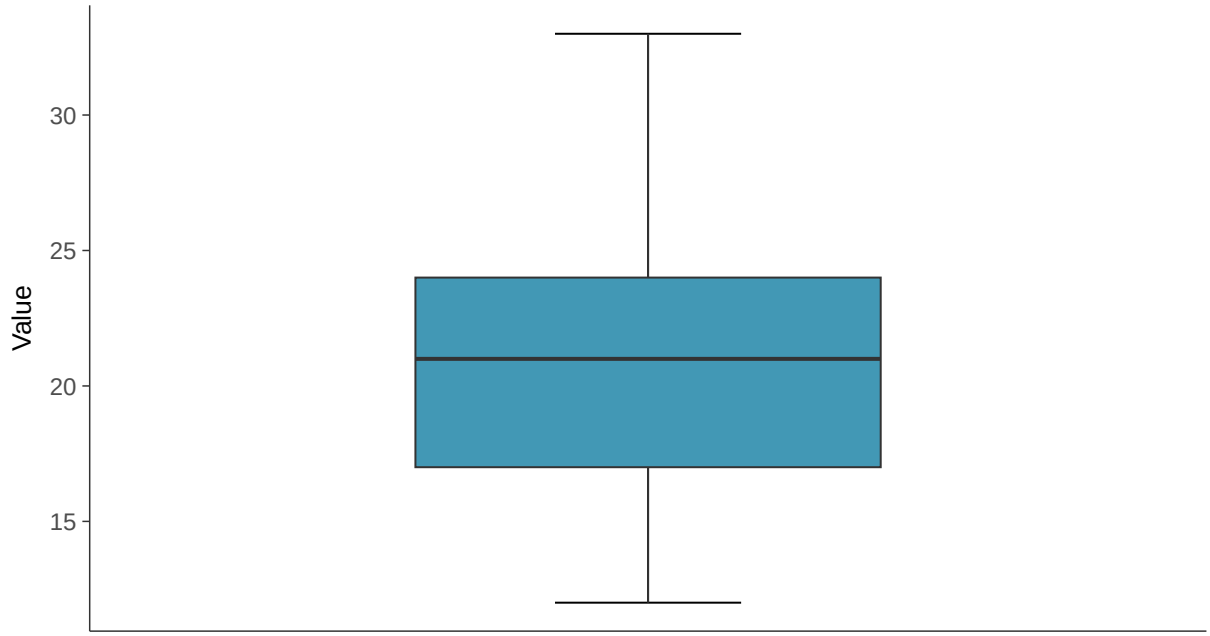
Histogram

Lithium, MW-15018 (ug/L)



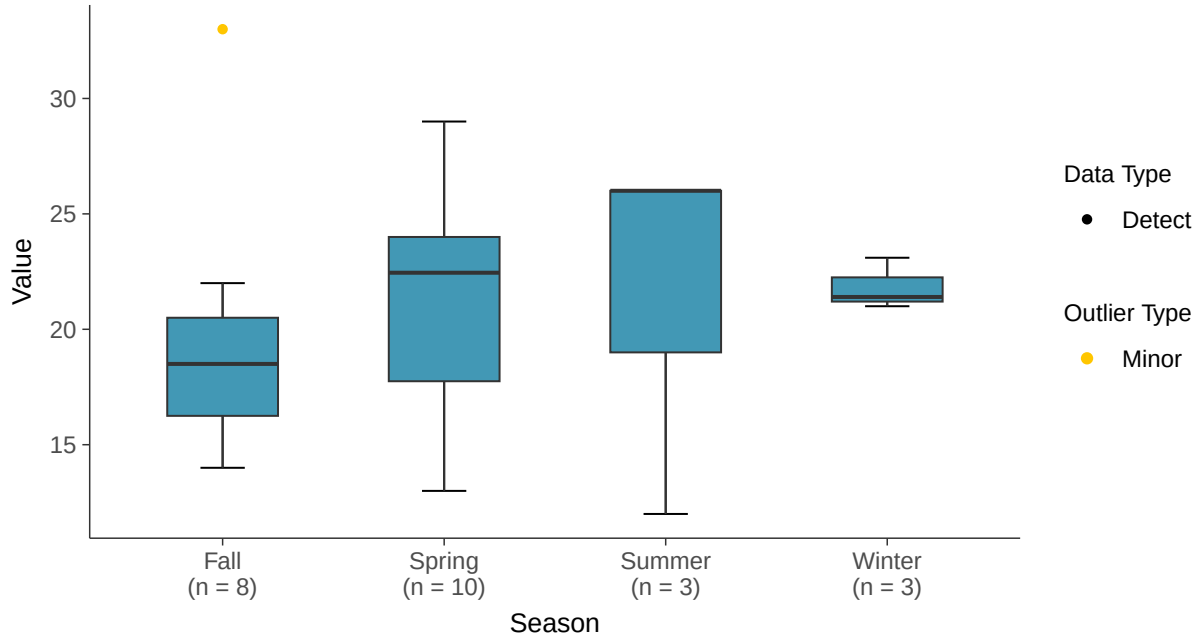
Boxplot

Lithium, MW-15018 (ug/L)



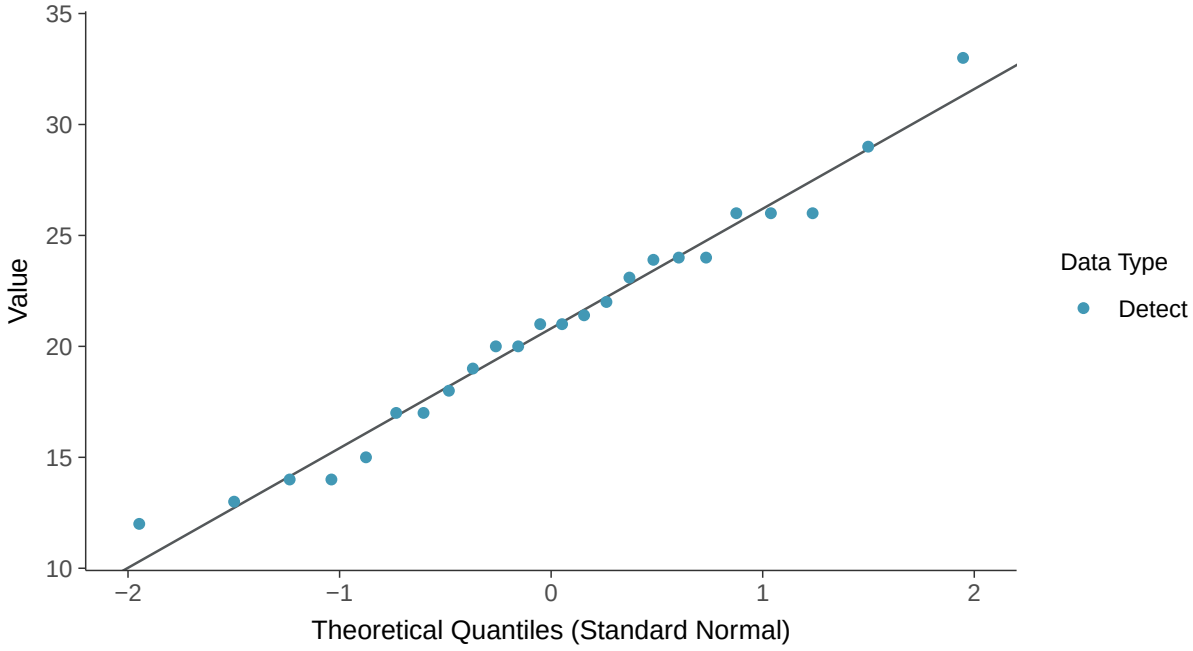
Boxplot by Season

Lithium, MW-15018 (ug/L)



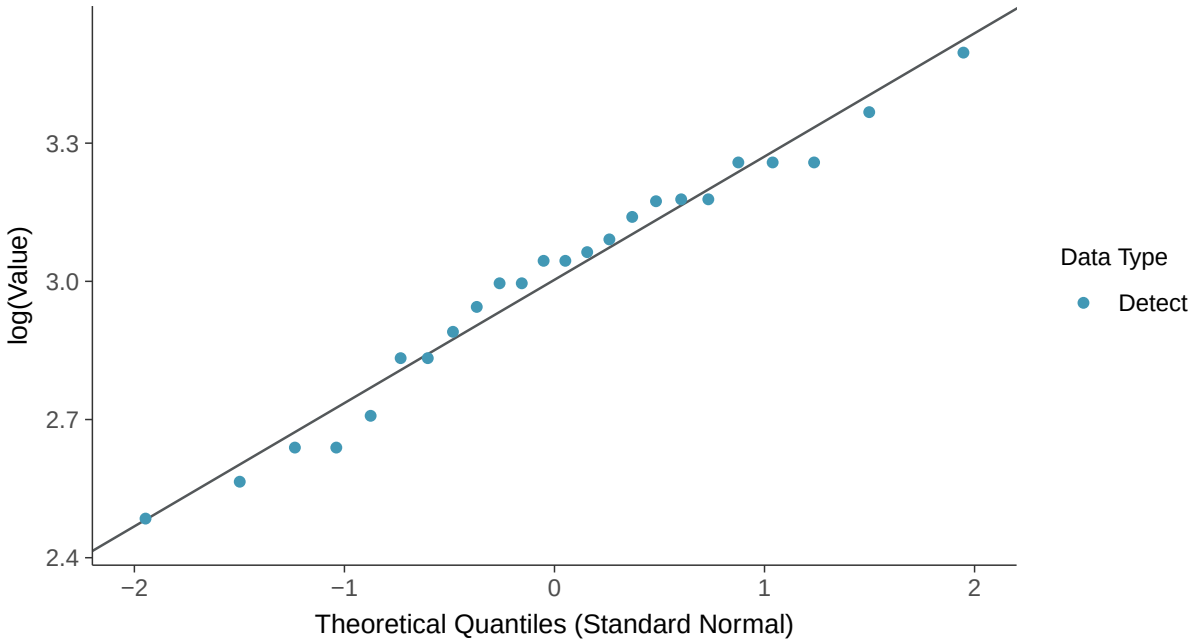
Normal Q-Q plot

Lithium, MW-15018 (ug/L)



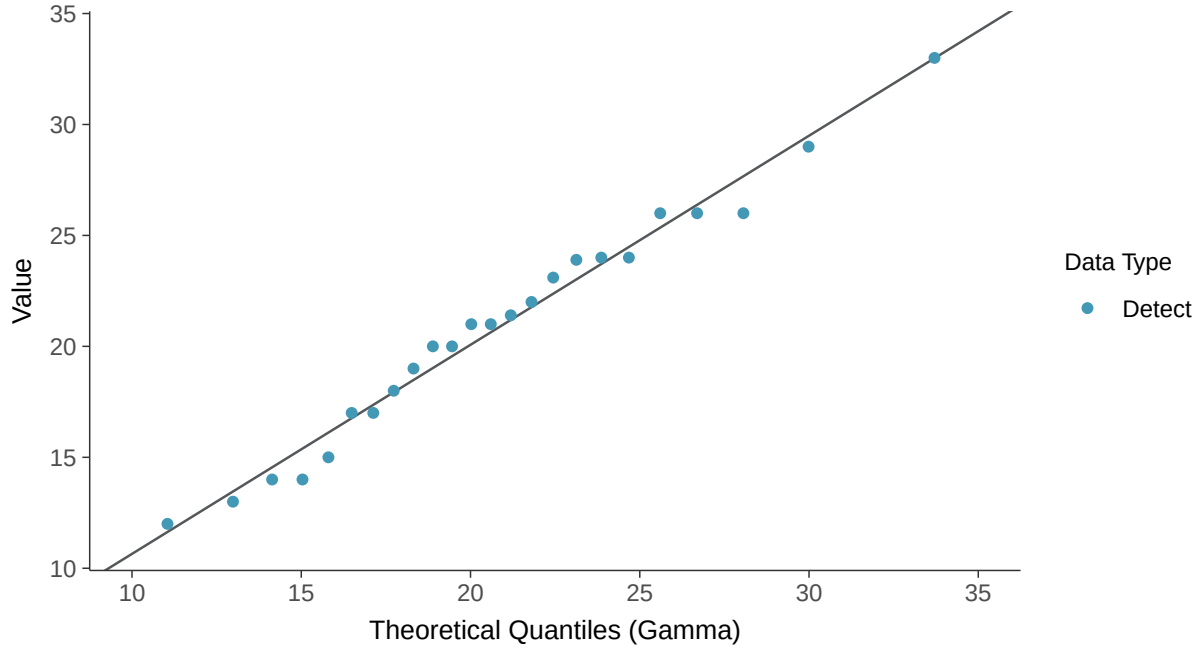
Lognormal Q-Q plot

Lithium, MW-15018 (ug/L)



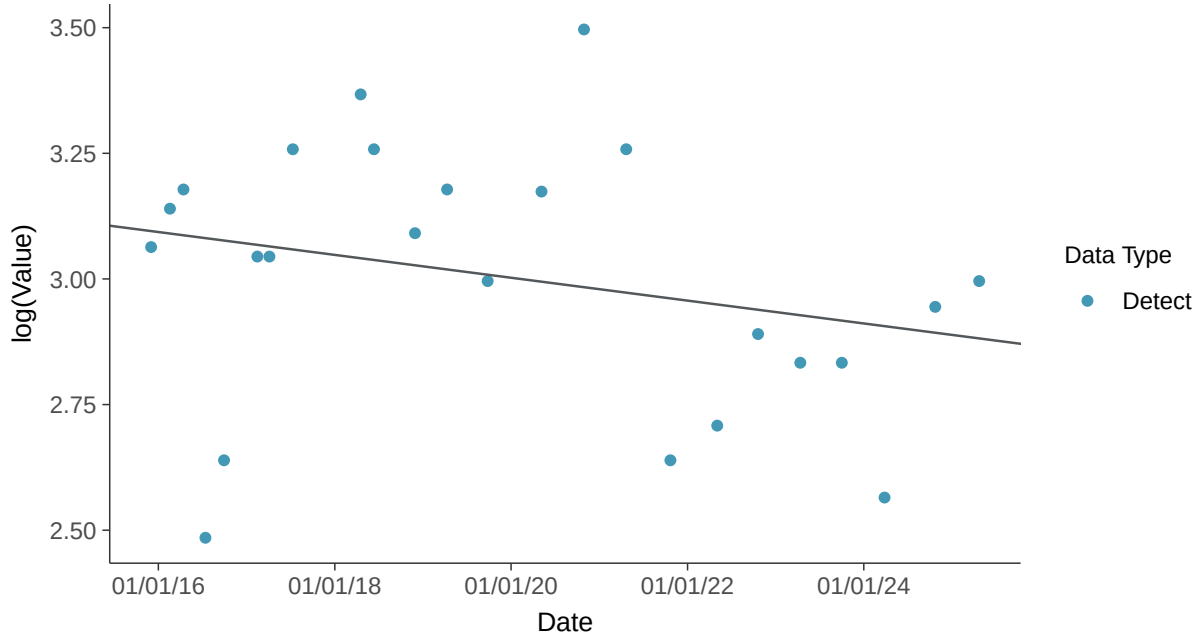
Gamma Q-Q plot

Lithium, MW-15018 (ug/L)



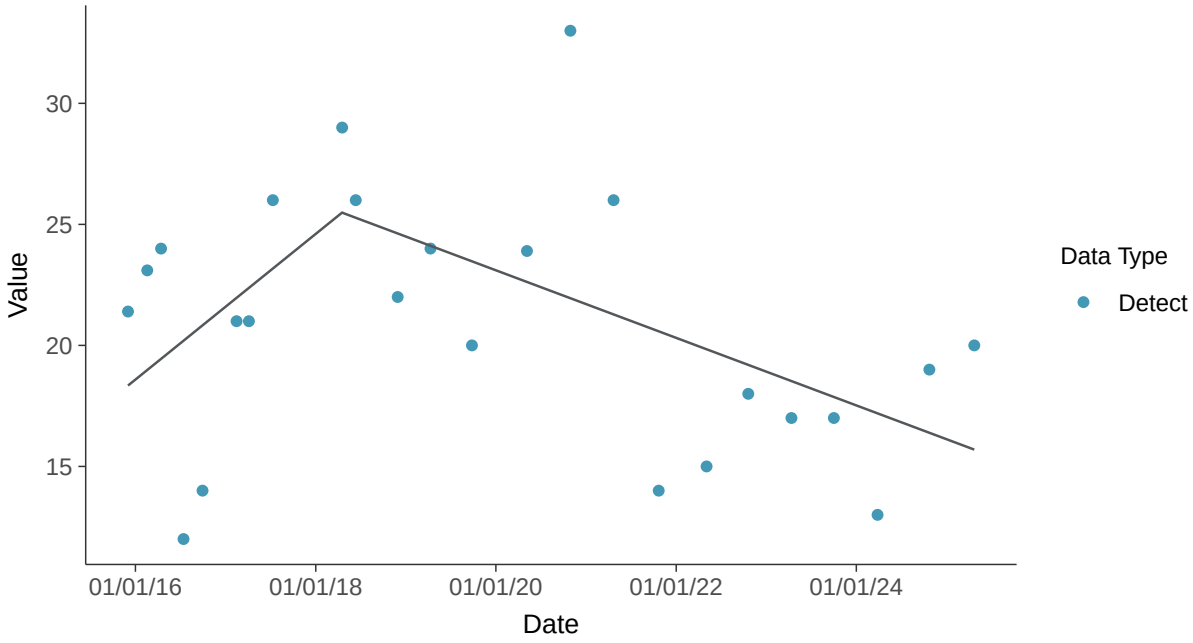
Trend Regression: Lognormal MLE

Lithium, MW-15018 (ug/L)



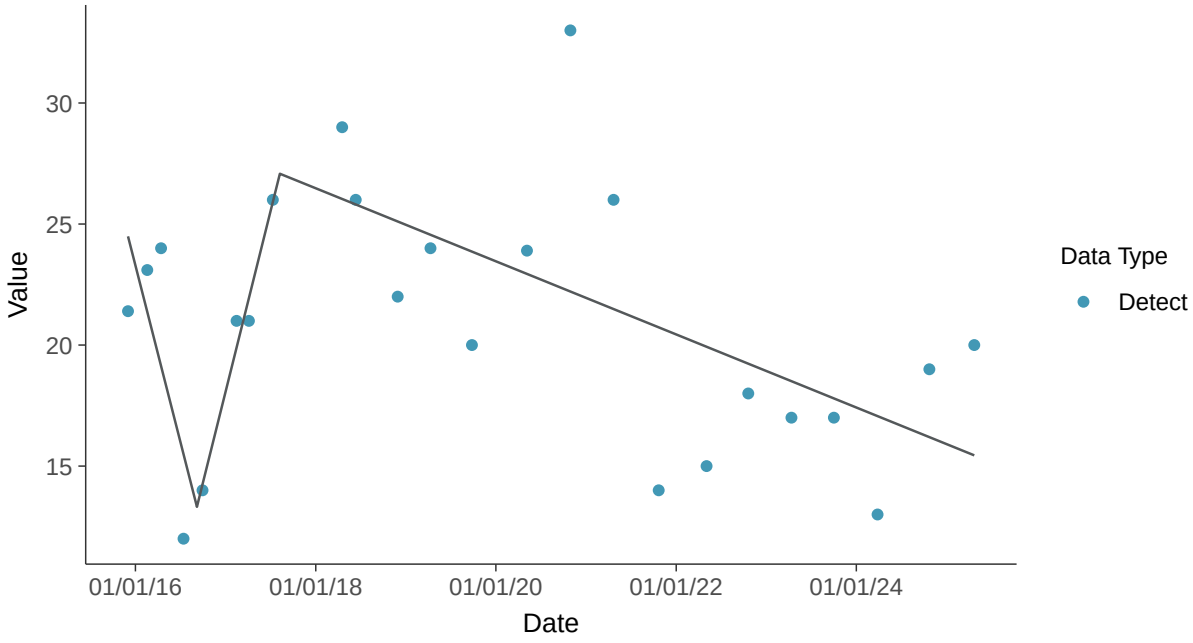
Trend Regression: Piecewise Linear-Linear

Lithium, MW-15018 (ug/L)



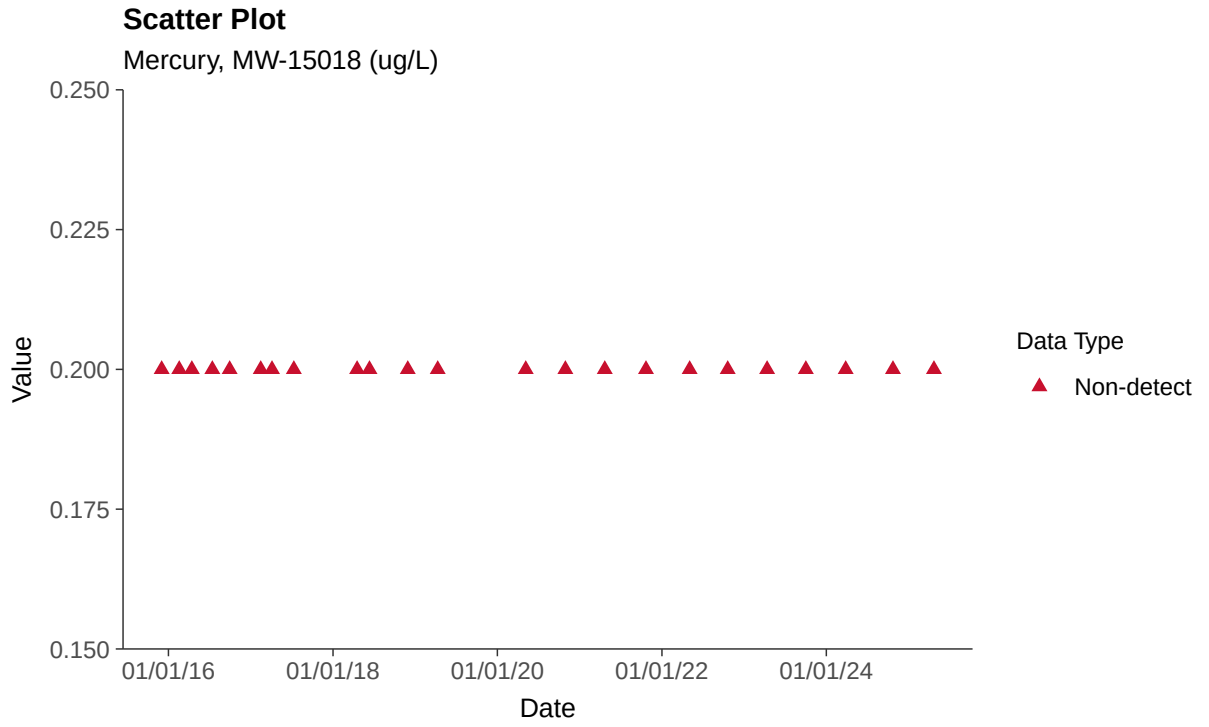
Trend Regression: Piecewise Linear-Linear-Linear

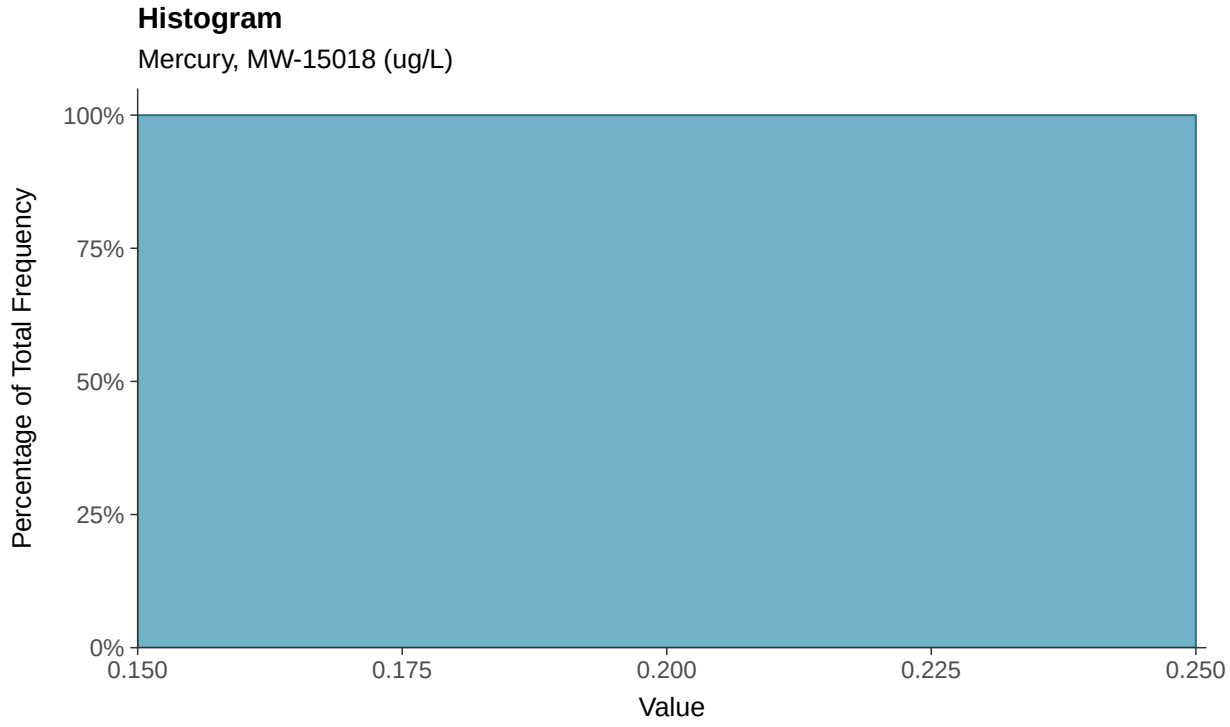
Lithium, MW-15018 (ug/L)



Appendix IV: Mercury, MW-15018

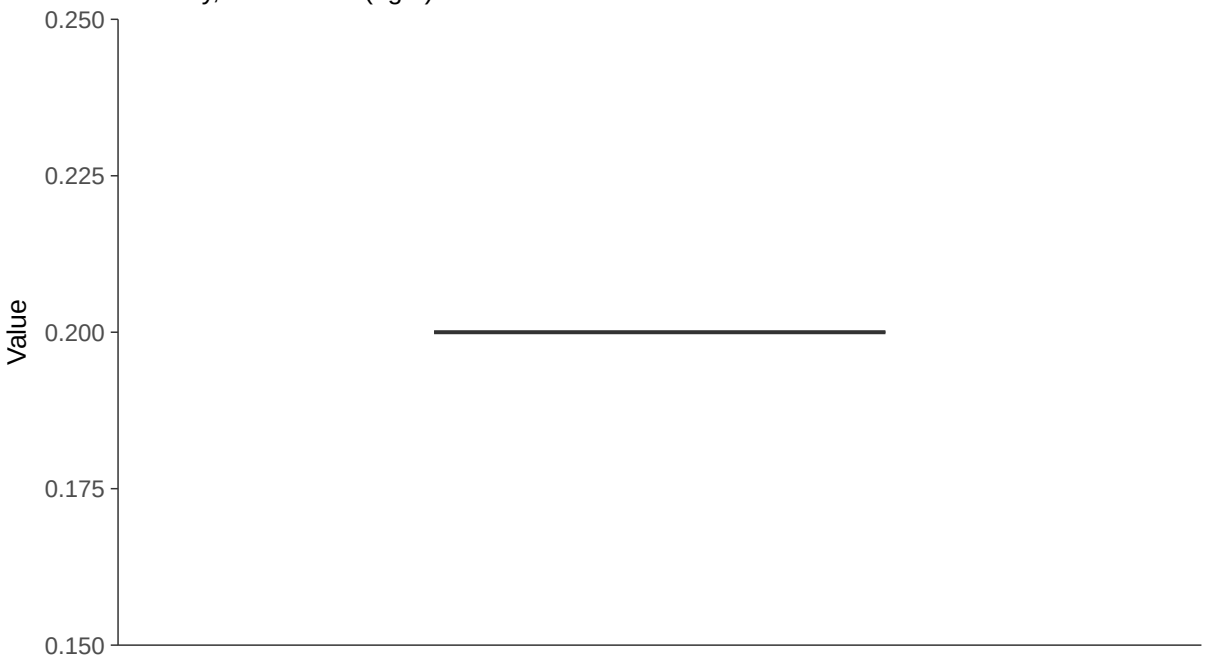
ID: 08_2_118





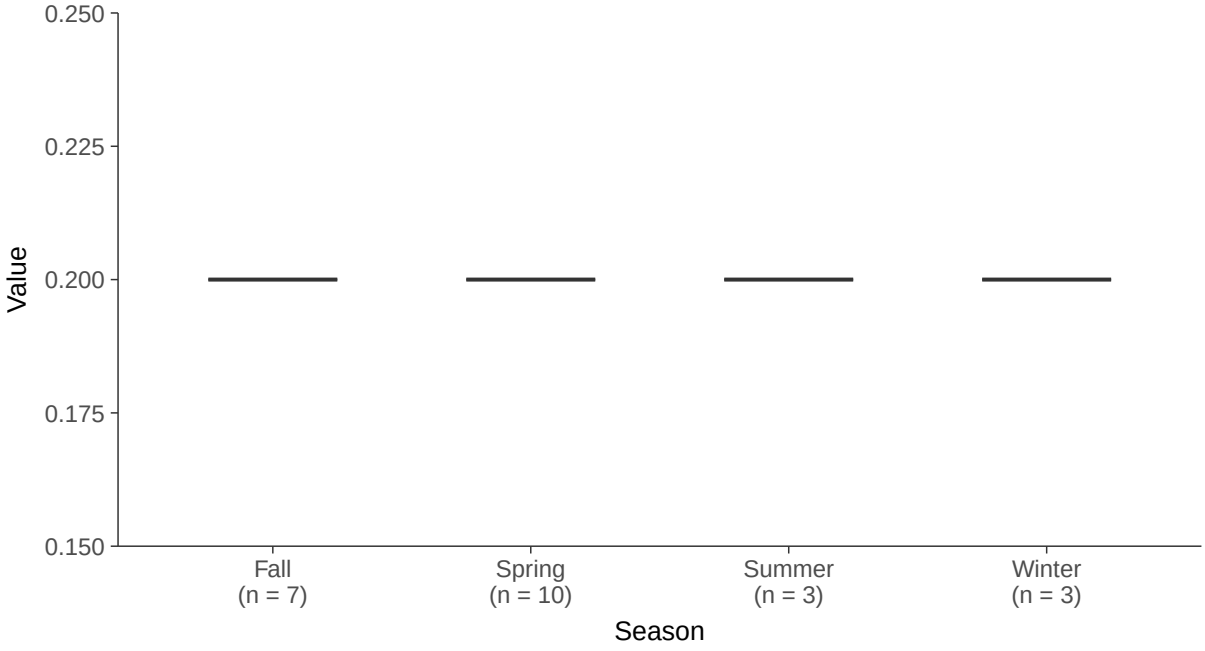
Boxplot

Mercury, MW-15018 (ug/L)



Boxplot by Season

Mercury, MW-15018 (ug/L)

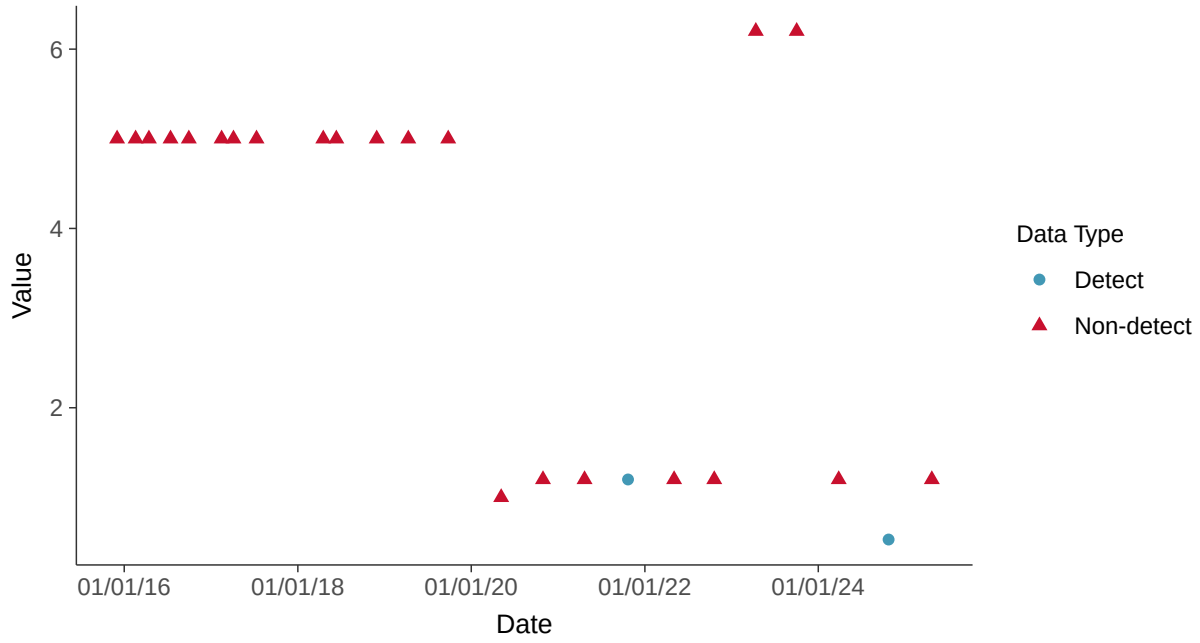


Appendix IV: Molybdenum, MW-15018

ID: 08_2_119

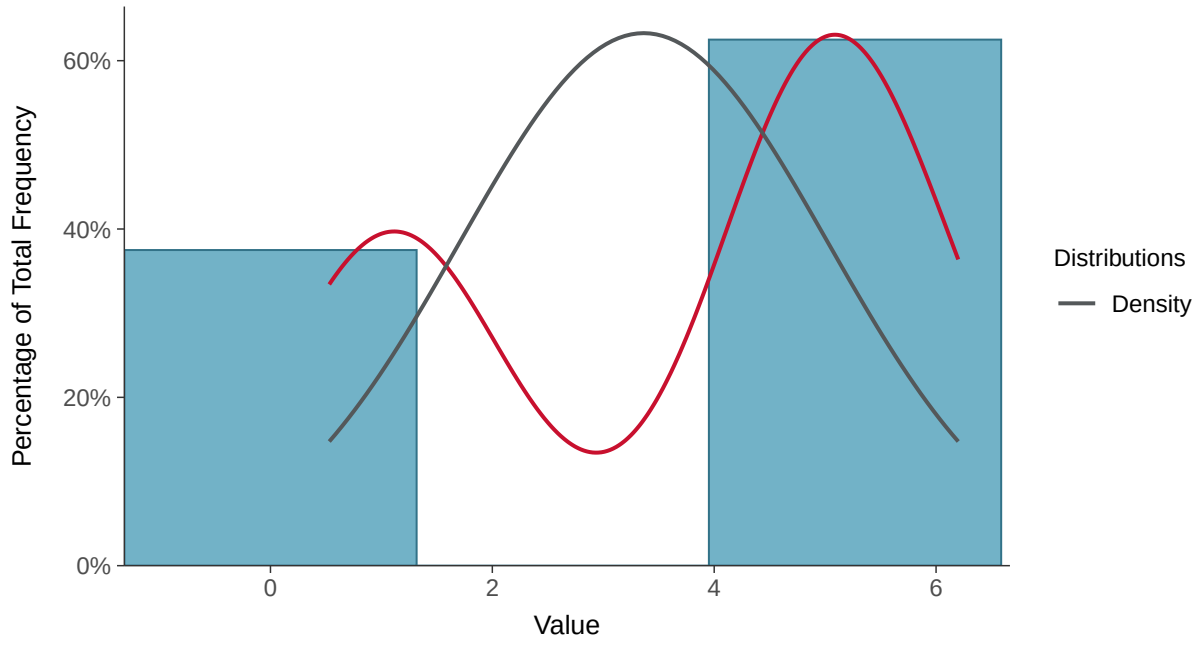
Scatter Plot

Molybdenum, MW-15018 (ug/L)



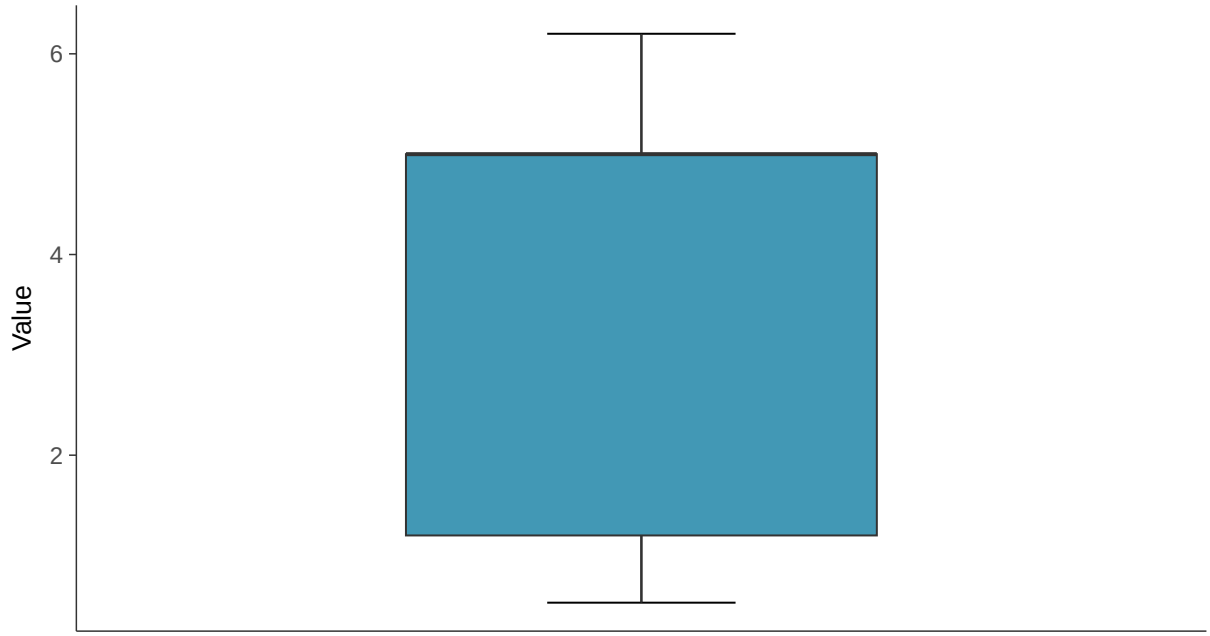
Histogram

Molybdenum, MW-15018 (ug/L)



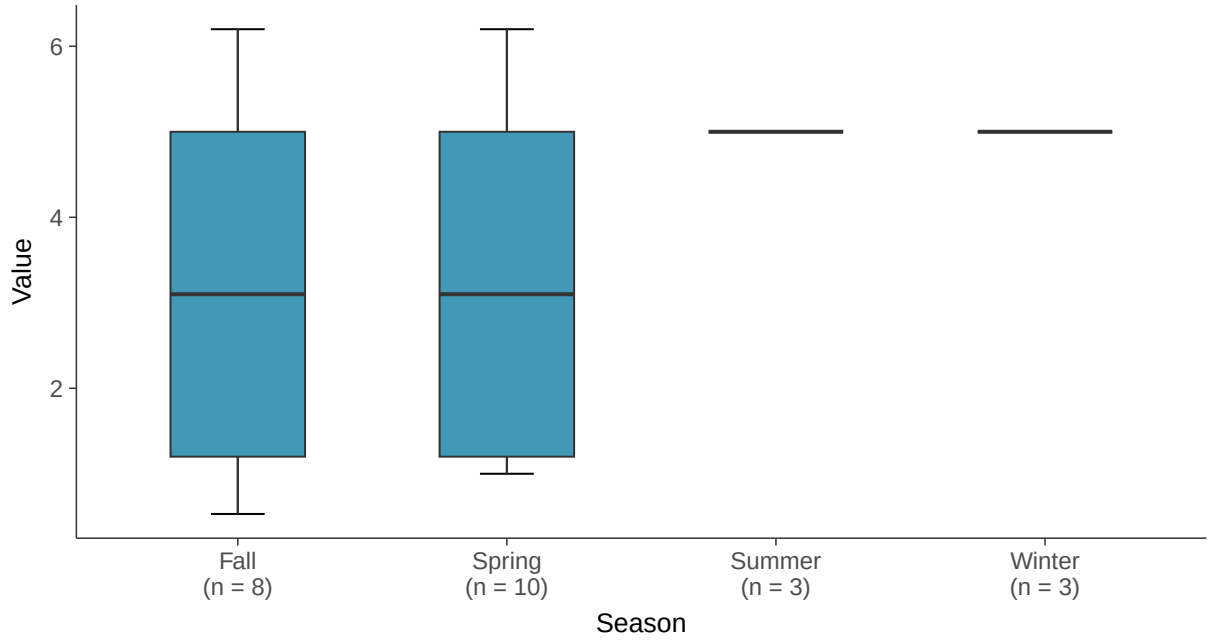
Boxplot

Molybdenum, MW-15018 (ug/L)



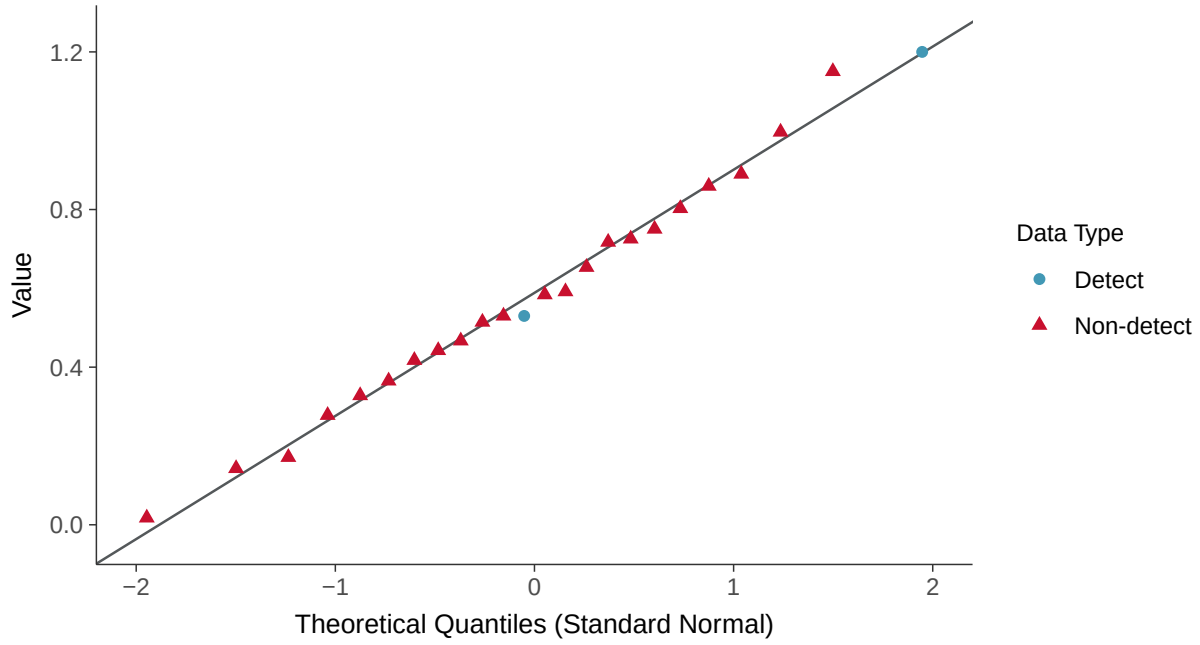
Boxplot by Season

Molybdenum, MW-15018 (ug/L)



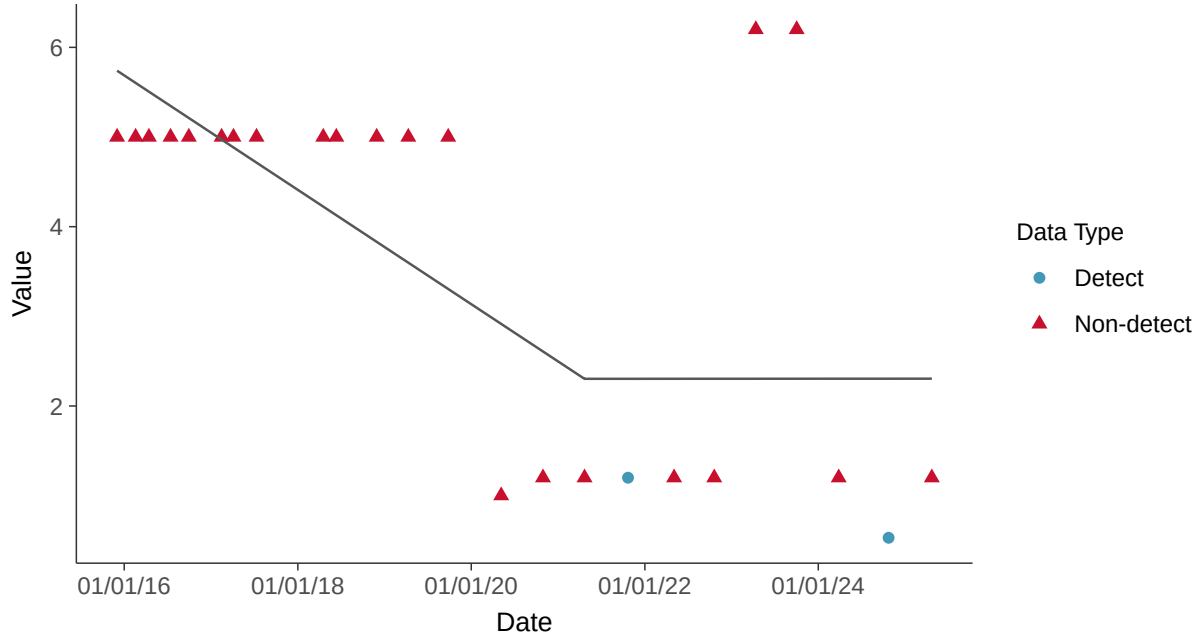
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15018 (ug/L)



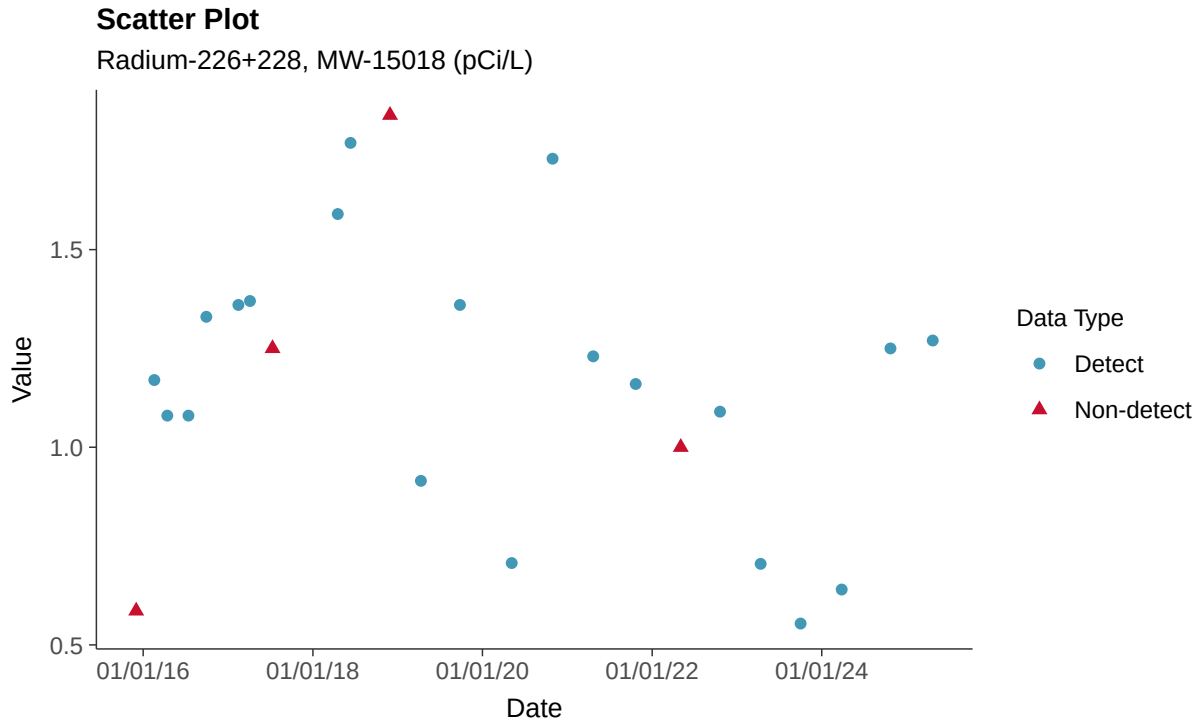
Trend Regression: Piecewise Linear-Linear

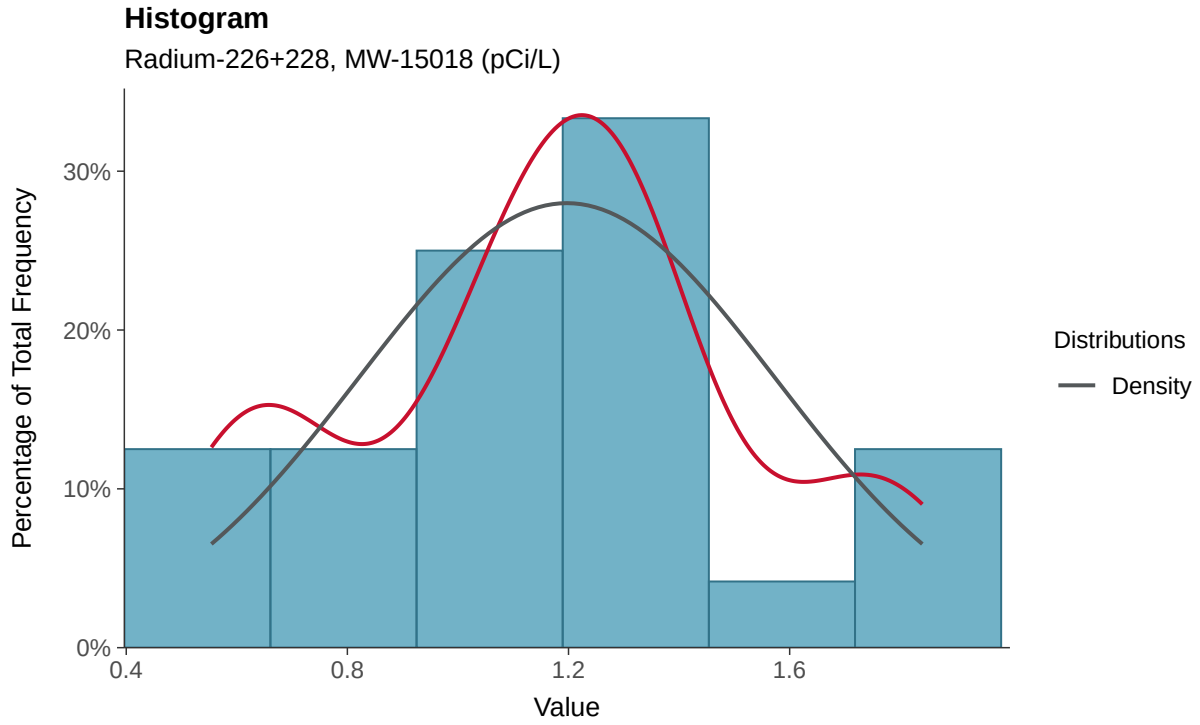
Molybdenum, MW-15018 (ug/L)



Appendix IV: Radium-226+228, MW-15018

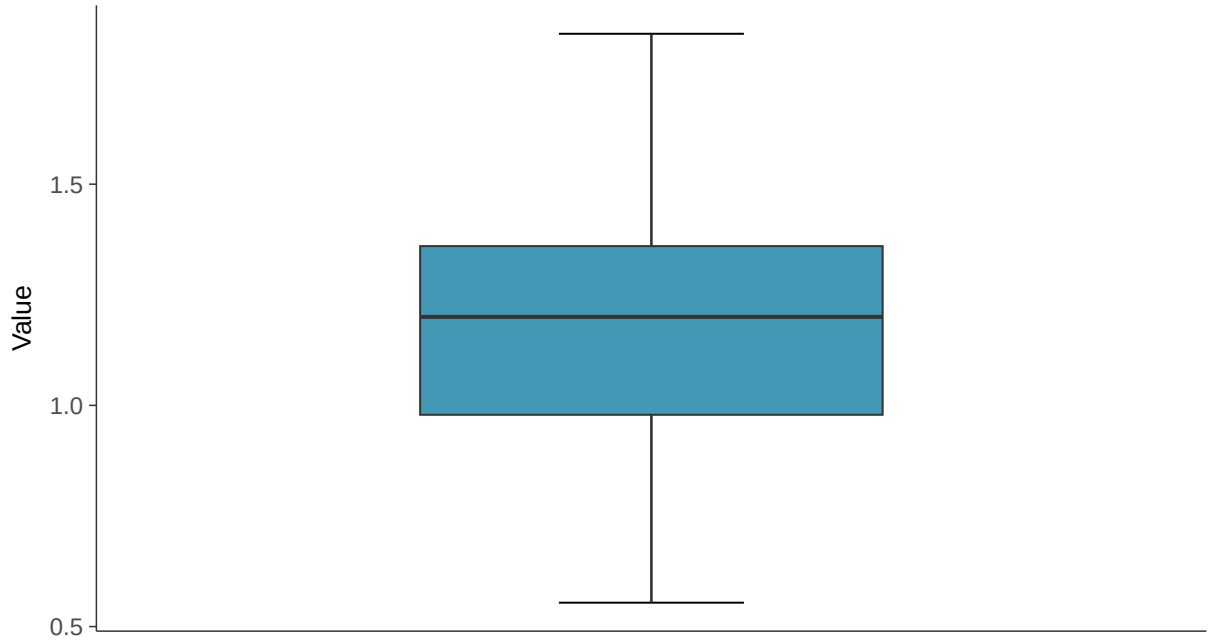
ID: 08_2_125





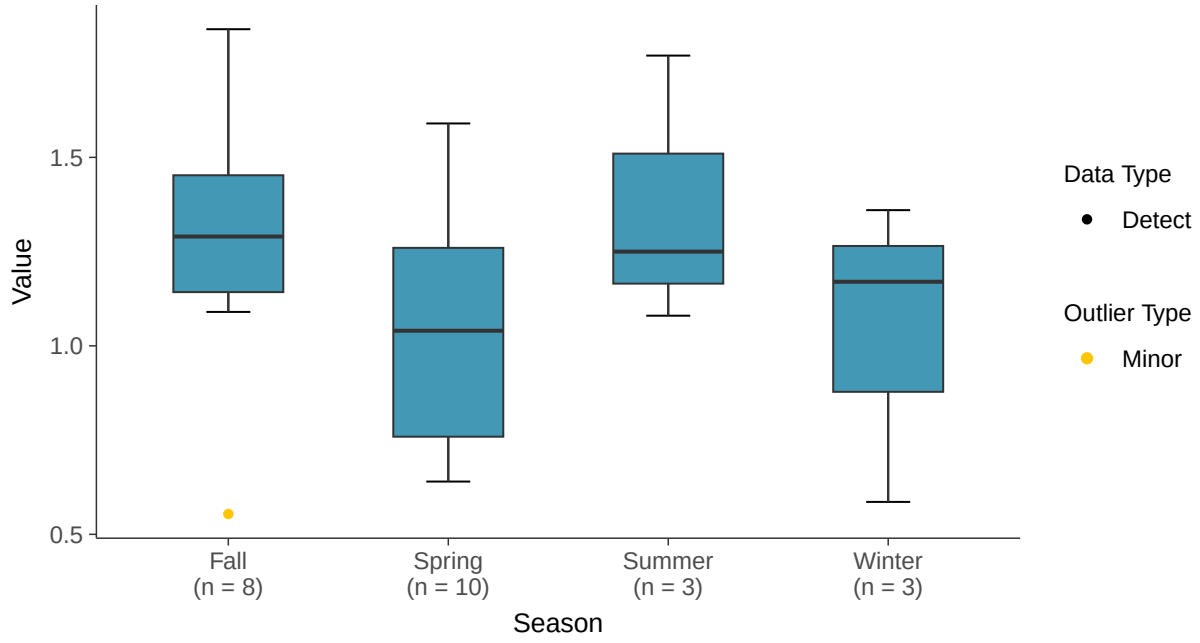
Boxplot

Radium-226+228, MW-15018 (pCi/L)



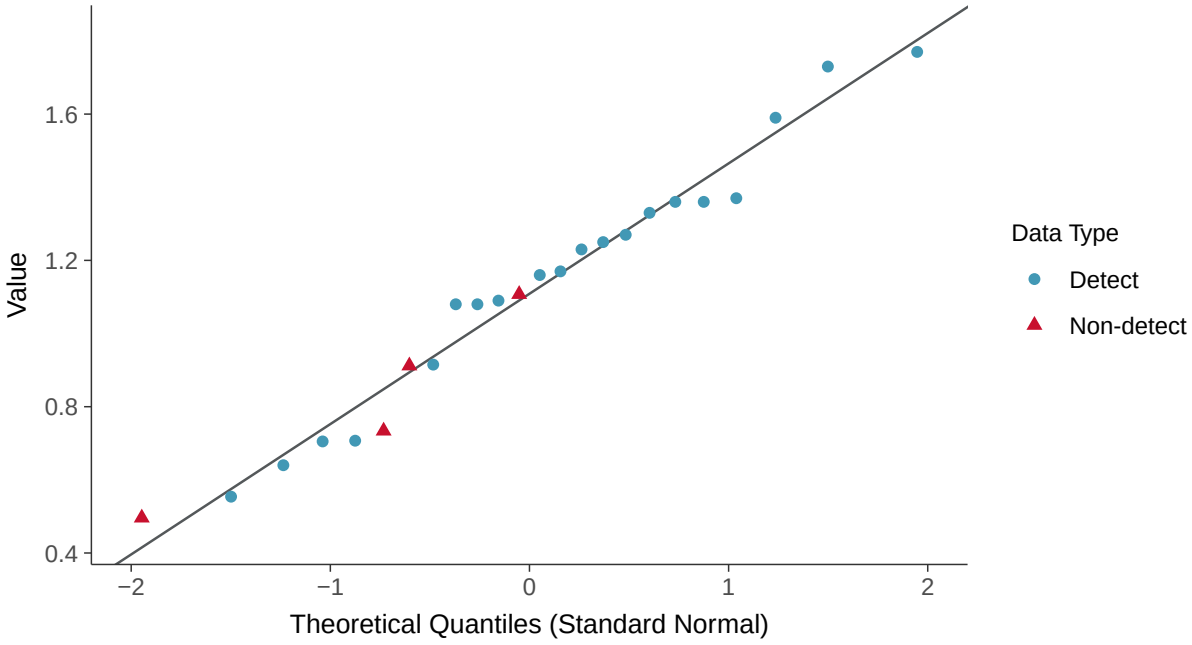
Boxplot by Season

Radium-226+228, MW-15018 (pCi/L)



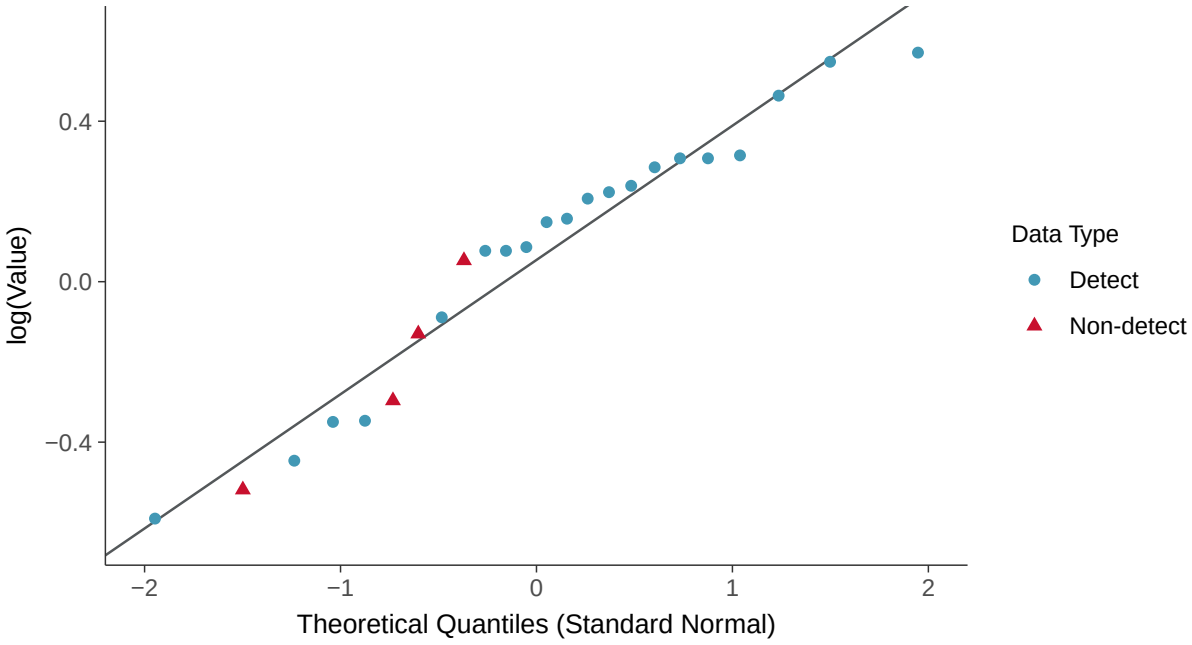
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15018 (pCi/L)



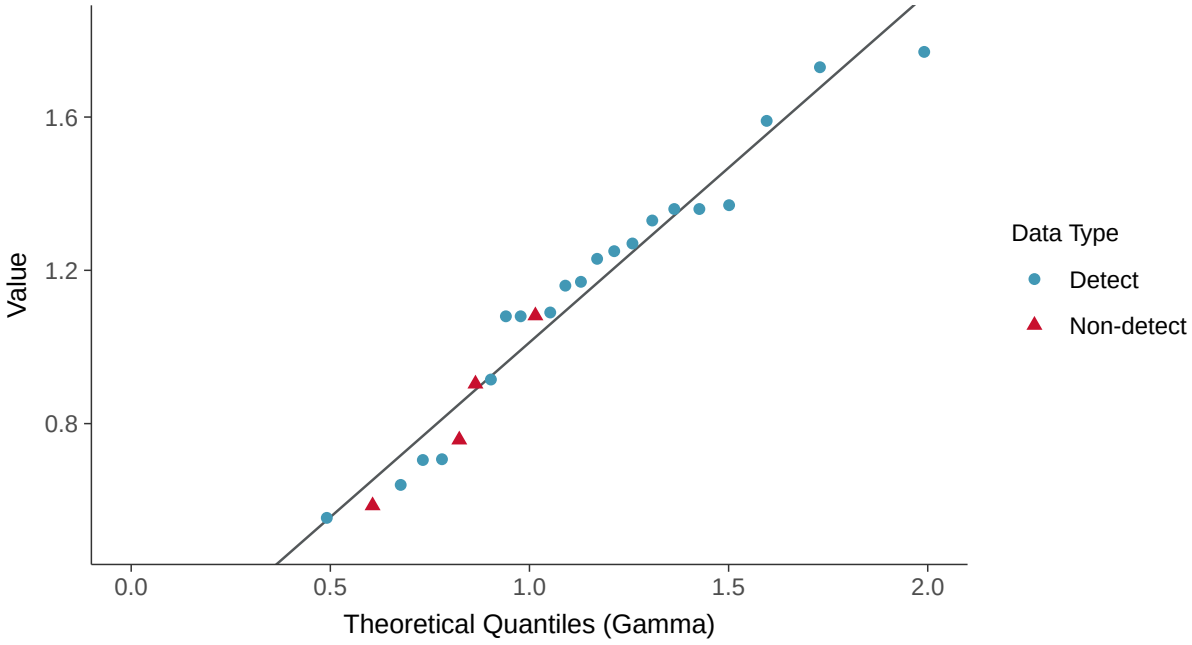
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15018 (pCi/L)



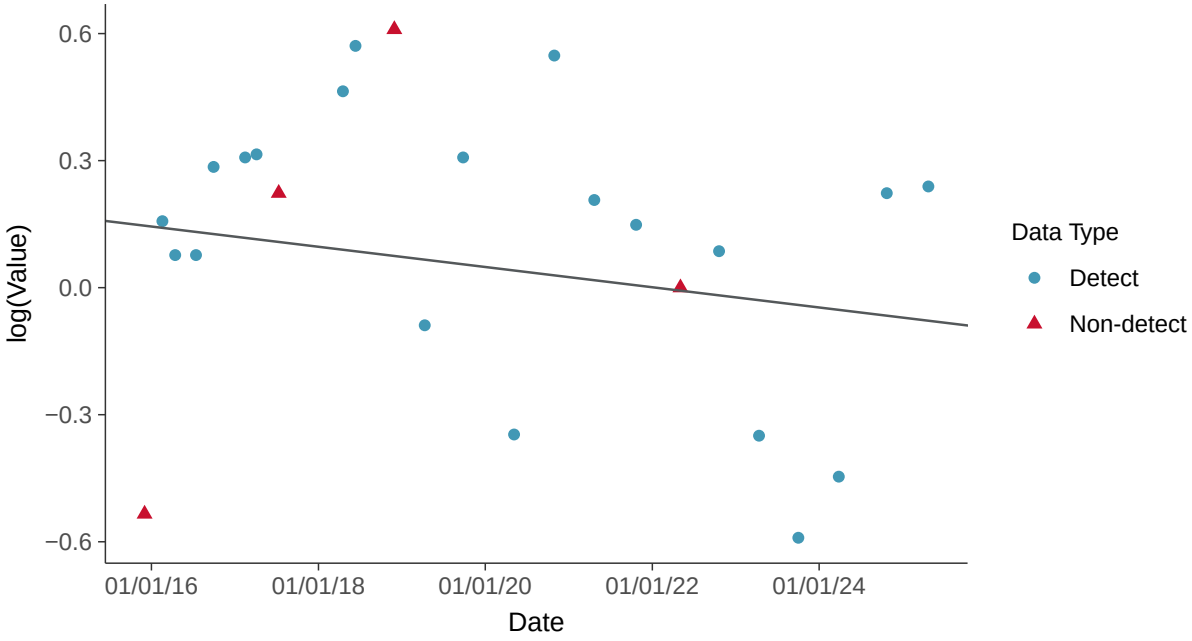
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15018 (pCi/L)



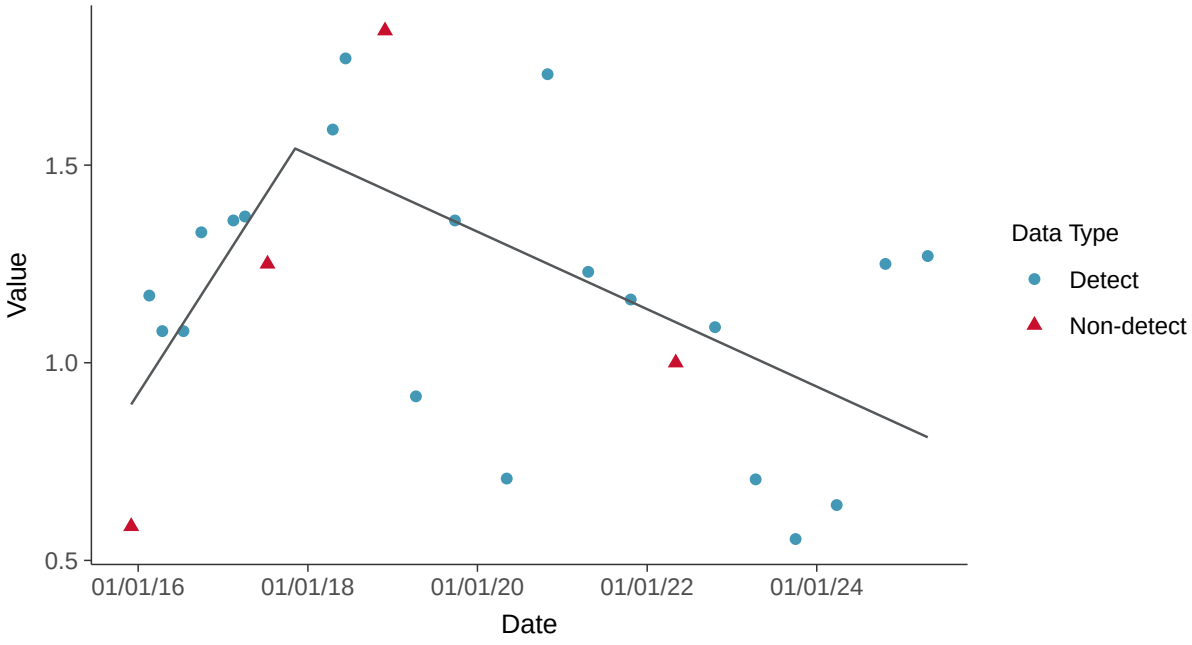
Trend Regression: Lognormal MLE

Radium-226+228, MW-15018 (pCi/L)



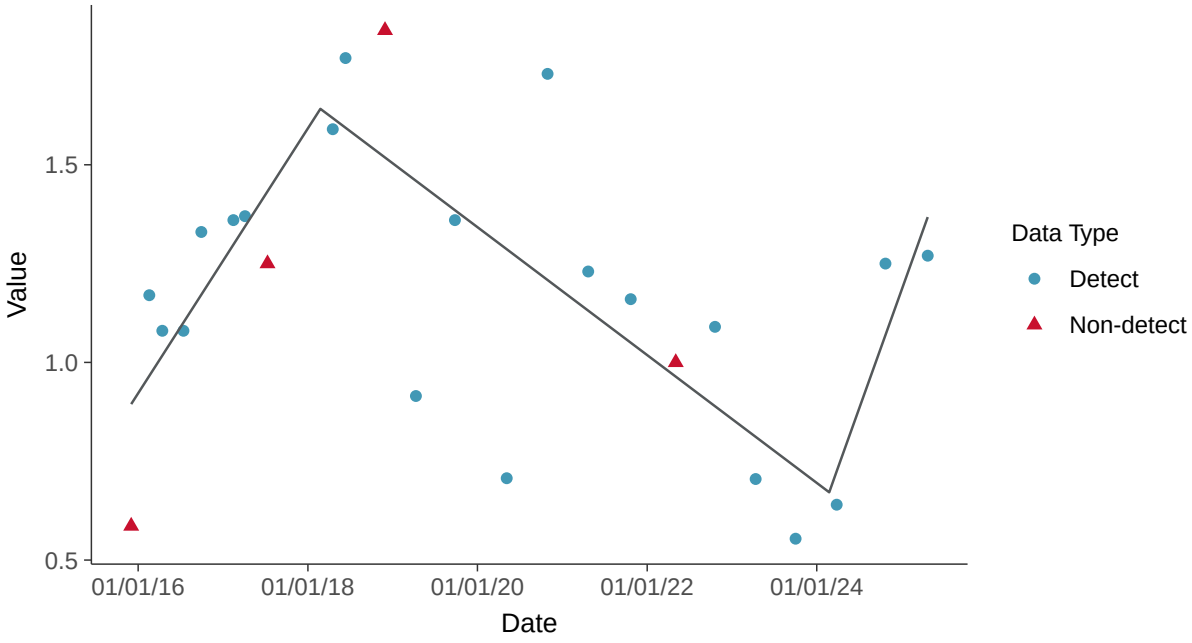
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-15018 (pCi/L)



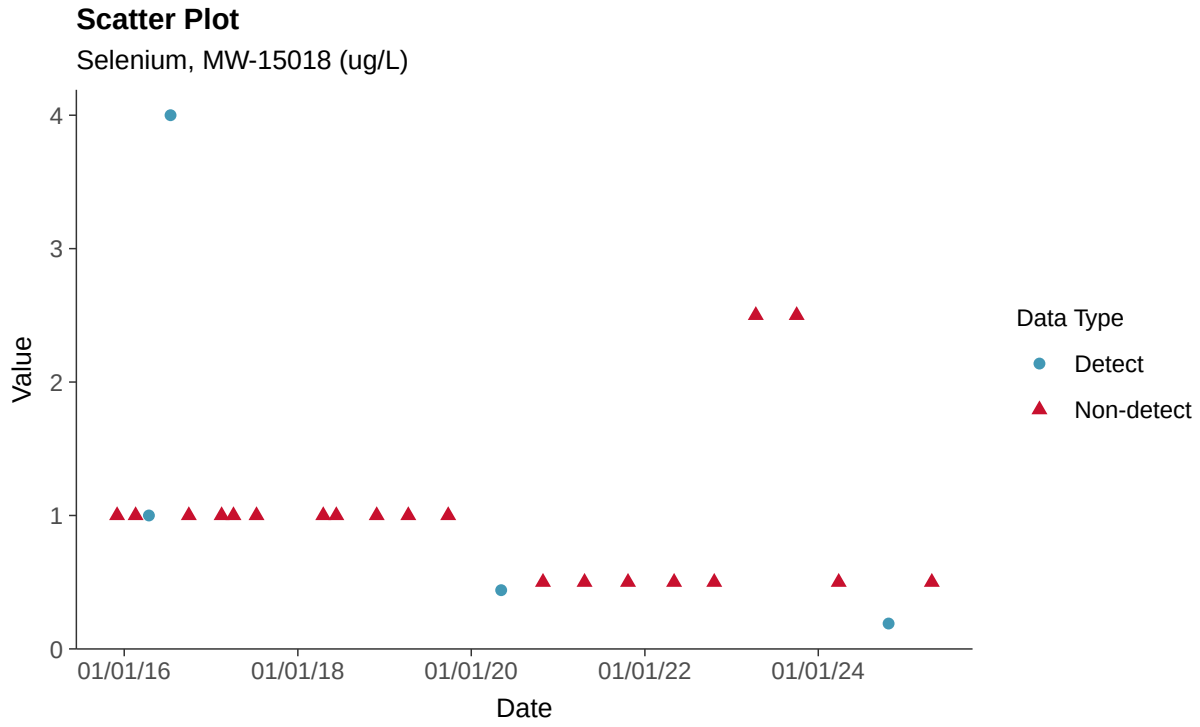
Trend Regression: Piecewise Linear-Linear-Linear

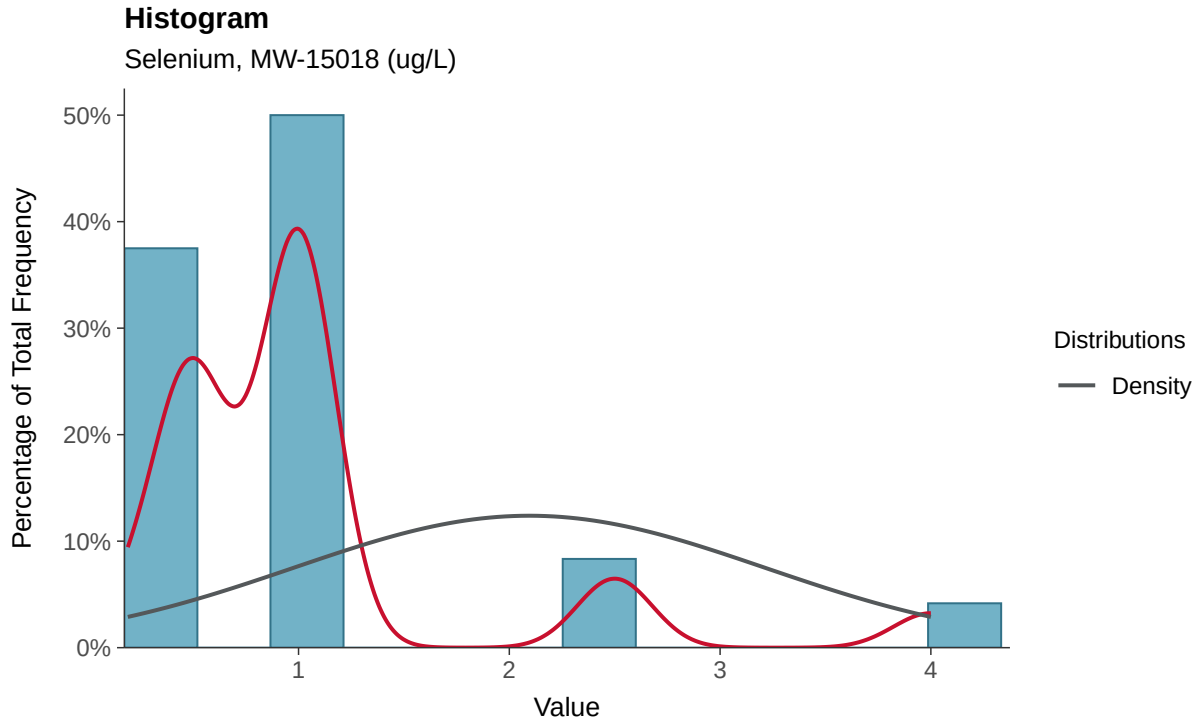
Radium-226+228, MW-15018 (pCi/L)



Appendix IV: Selenium, MW-15018

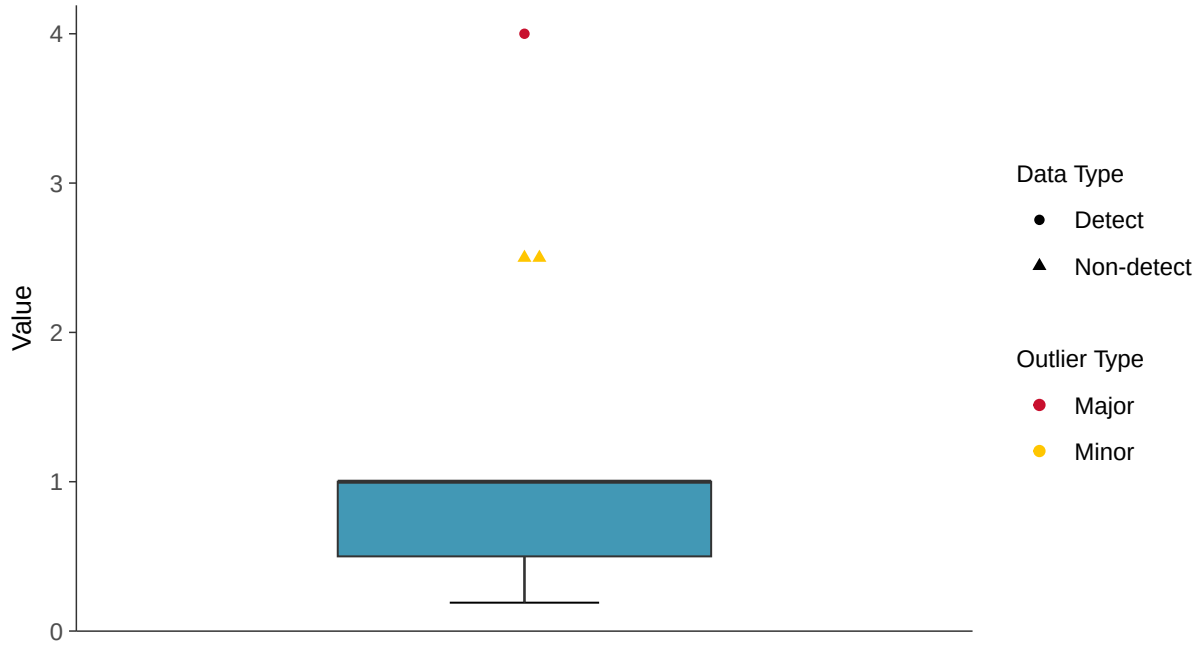
ID: 08_2_127





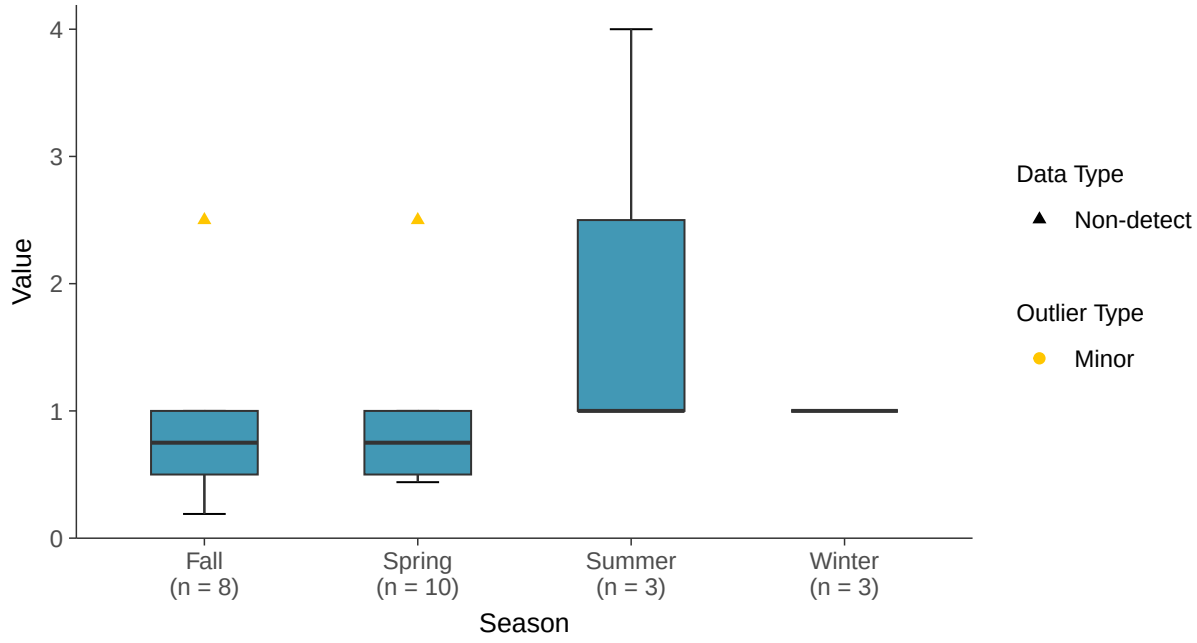
Boxplot

Selenium, MW-15018 (ug/L)



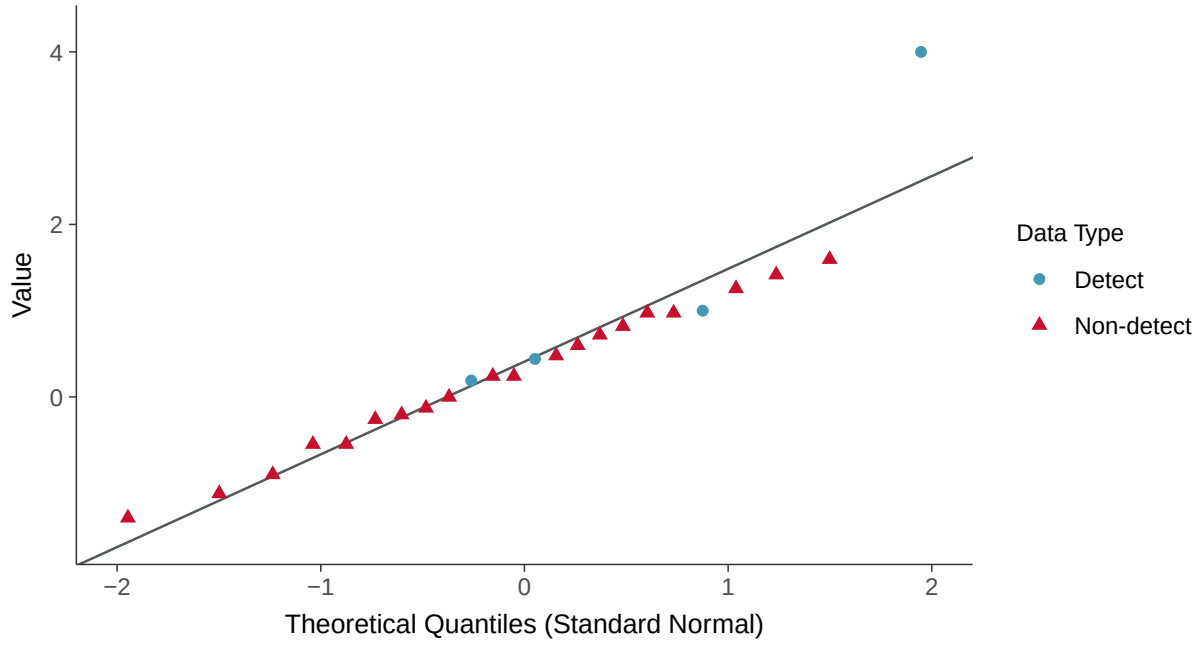
Boxplot by Season

Selenium, MW-15018 (ug/L)



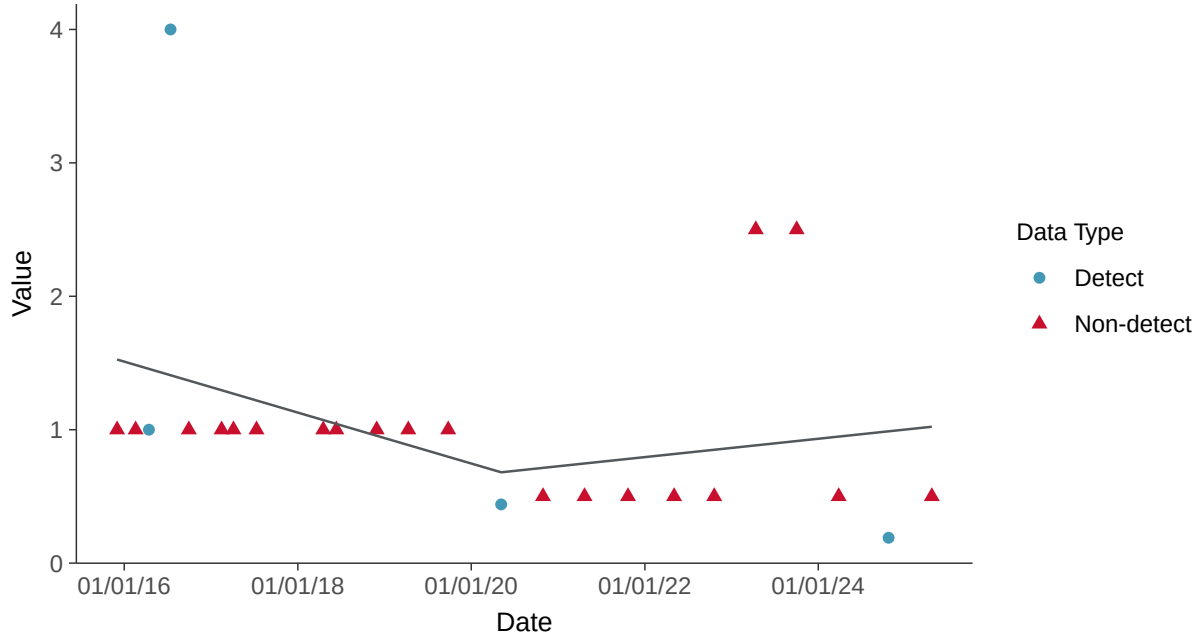
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-15018 (ug/L)



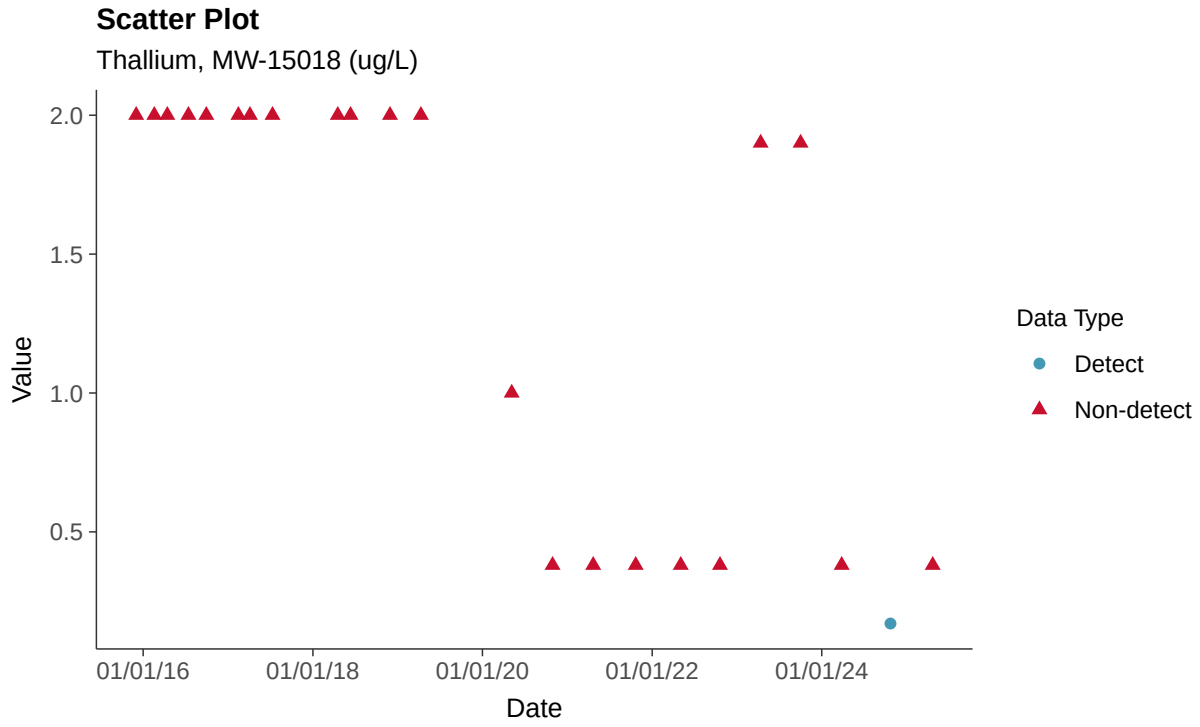
Trend Regression: Piecewise Linear-Linear

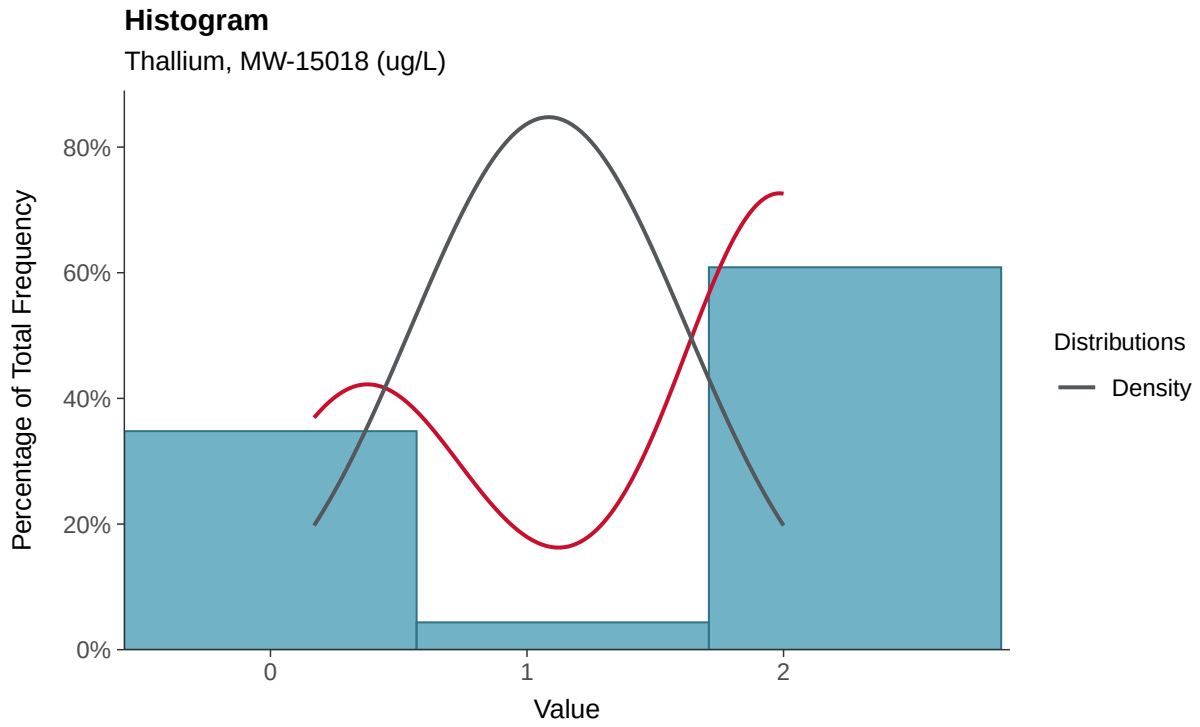
Selenium, MW-15018 (ug/L)



Appendix IV: Thallium, MW-15018

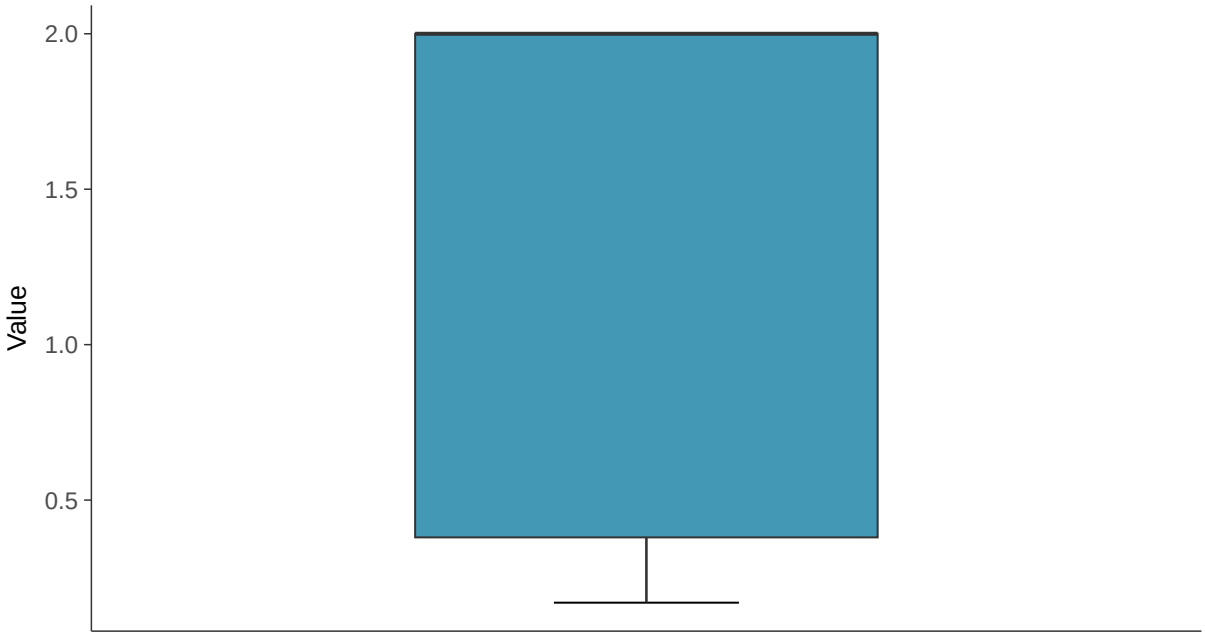
ID: 08_2_131





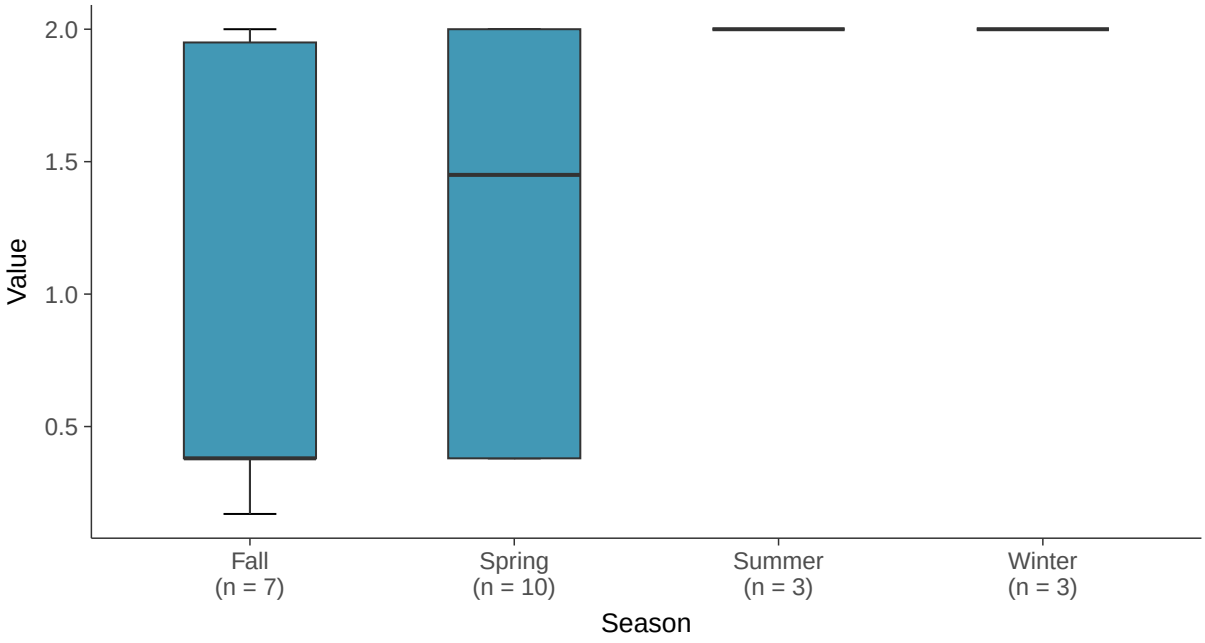
Boxplot

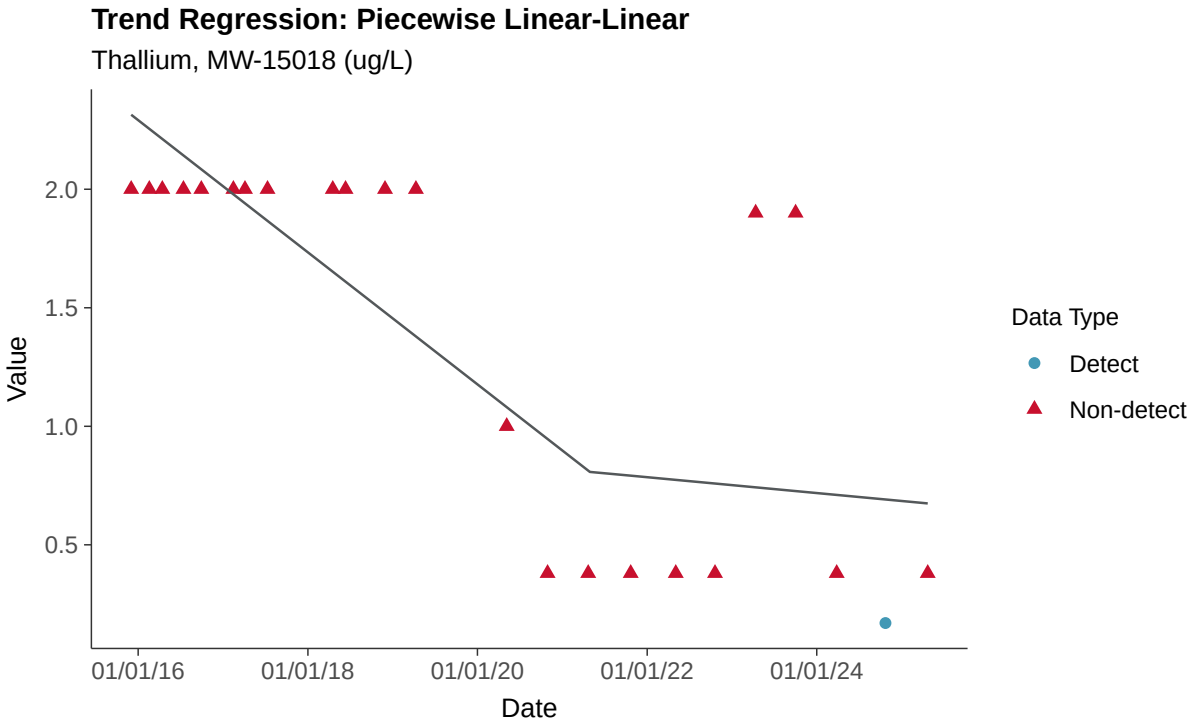
Thallium, MW-15018 (ug/L)



Boxplot by Season

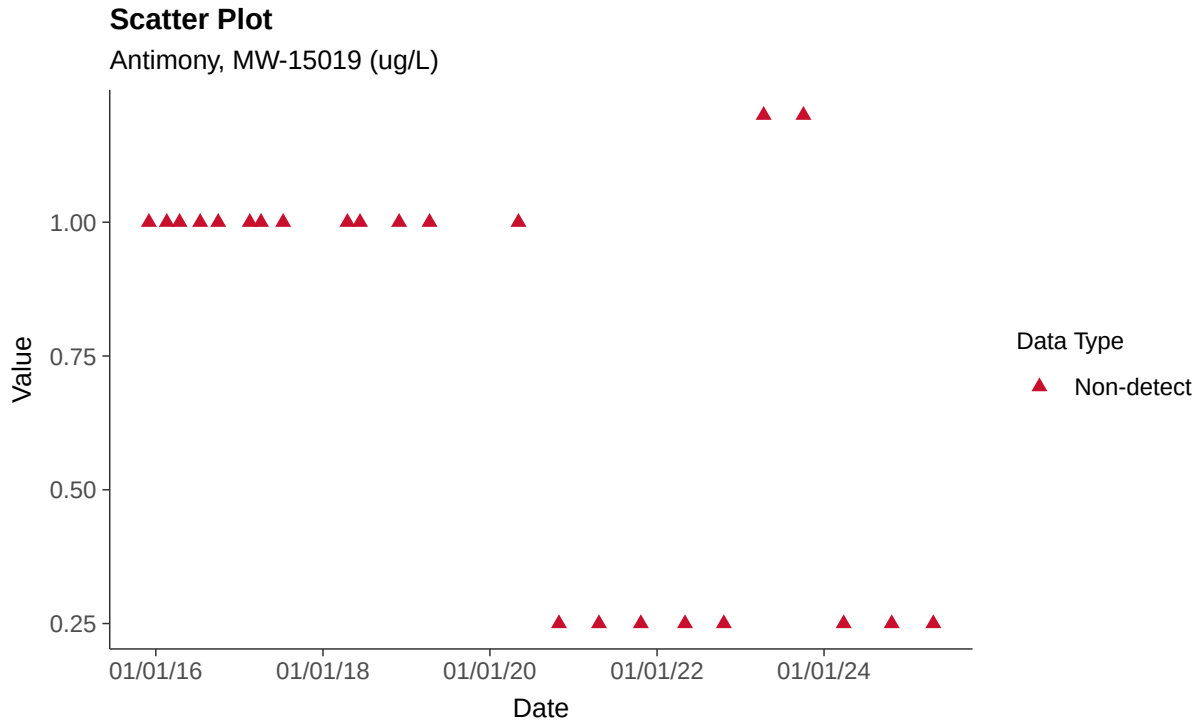
Thallium, MW-15018 (ug/L)

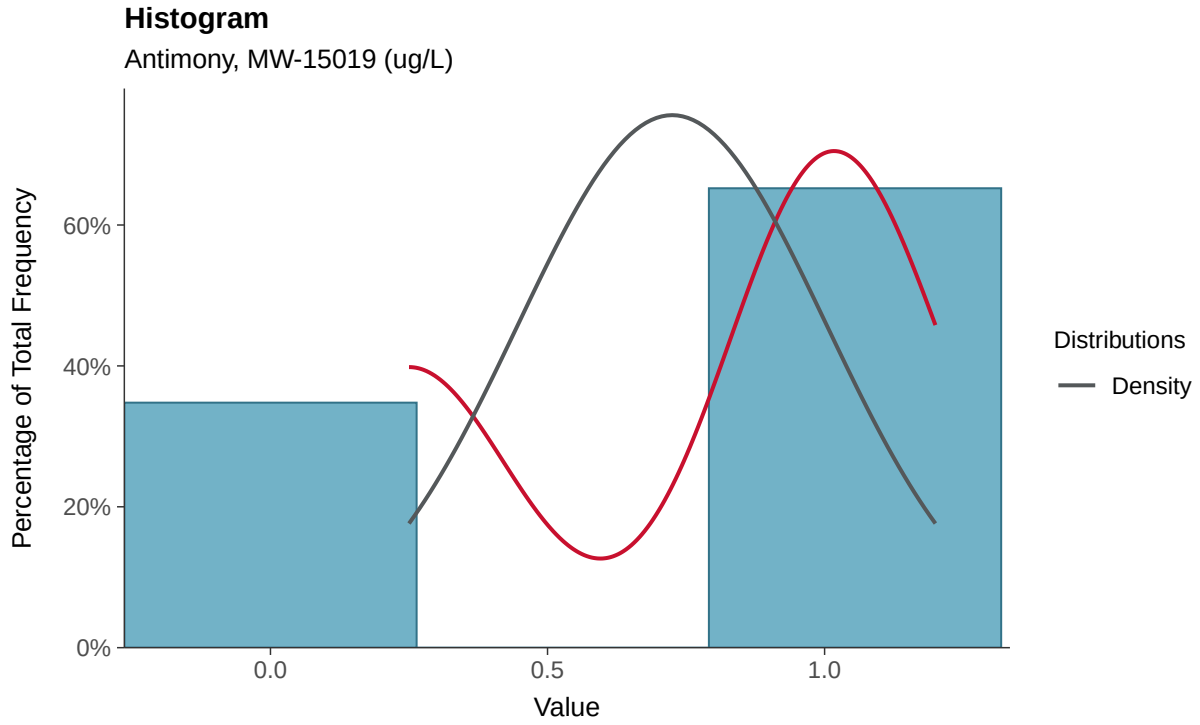



Trend Regression: Piecewise Linear-Linear
Thallium, MW-15018 (ug/L)
Value
2.0
1.5
1.0
0.5
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Detect
Non-detect

Appendix IV: Antimony, MW-15019

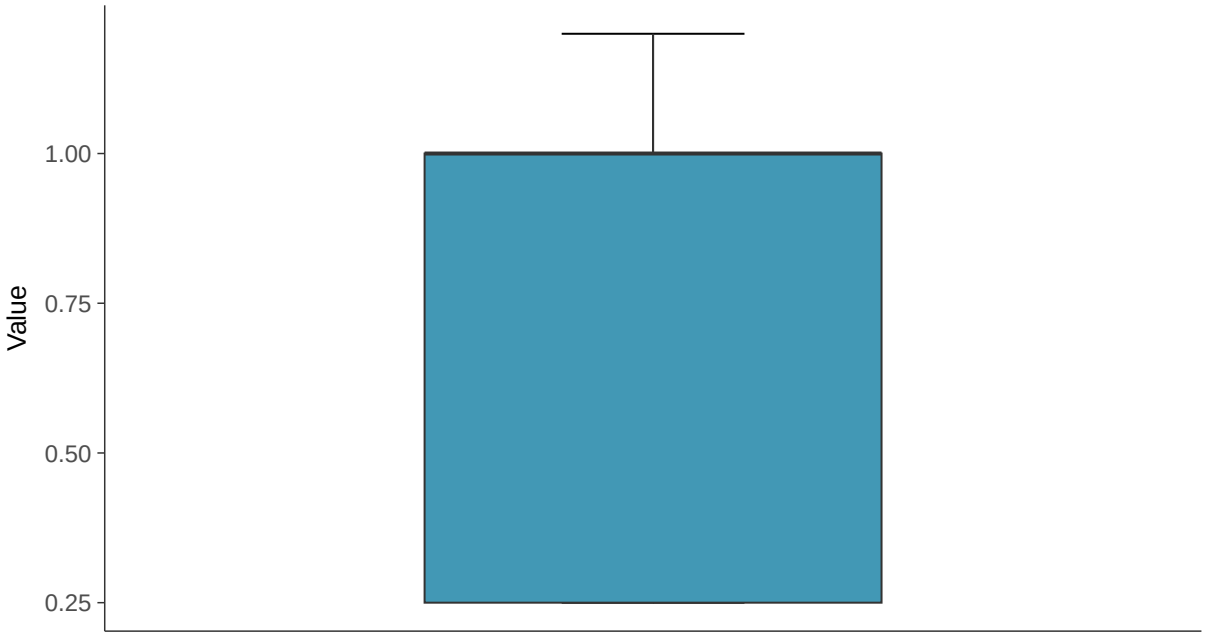
ID: 09_2_101





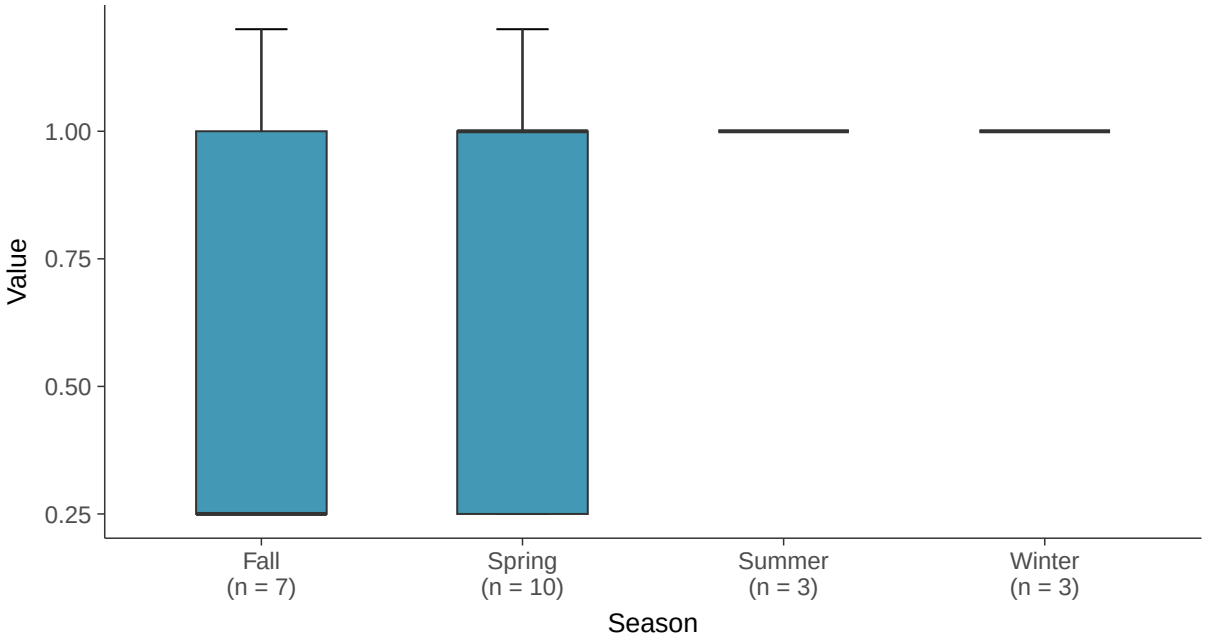
Boxplot

Antimony, MW-15019 (ug/L)



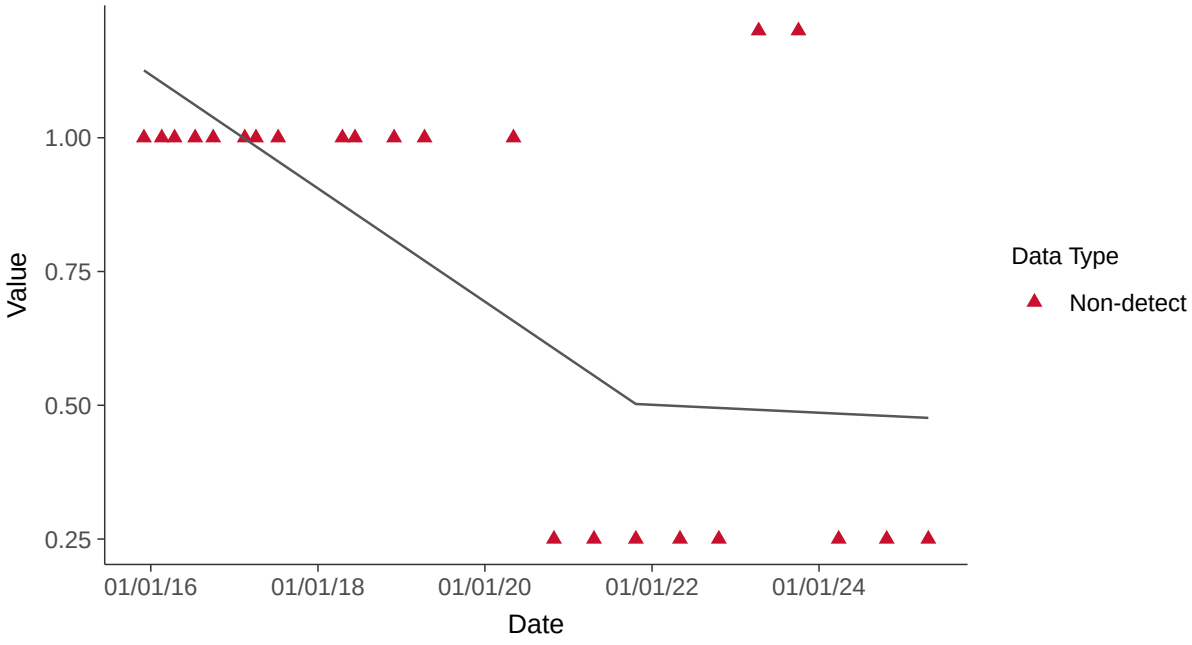
Boxplot by Season

Antimony, MW-15019 (ug/L)



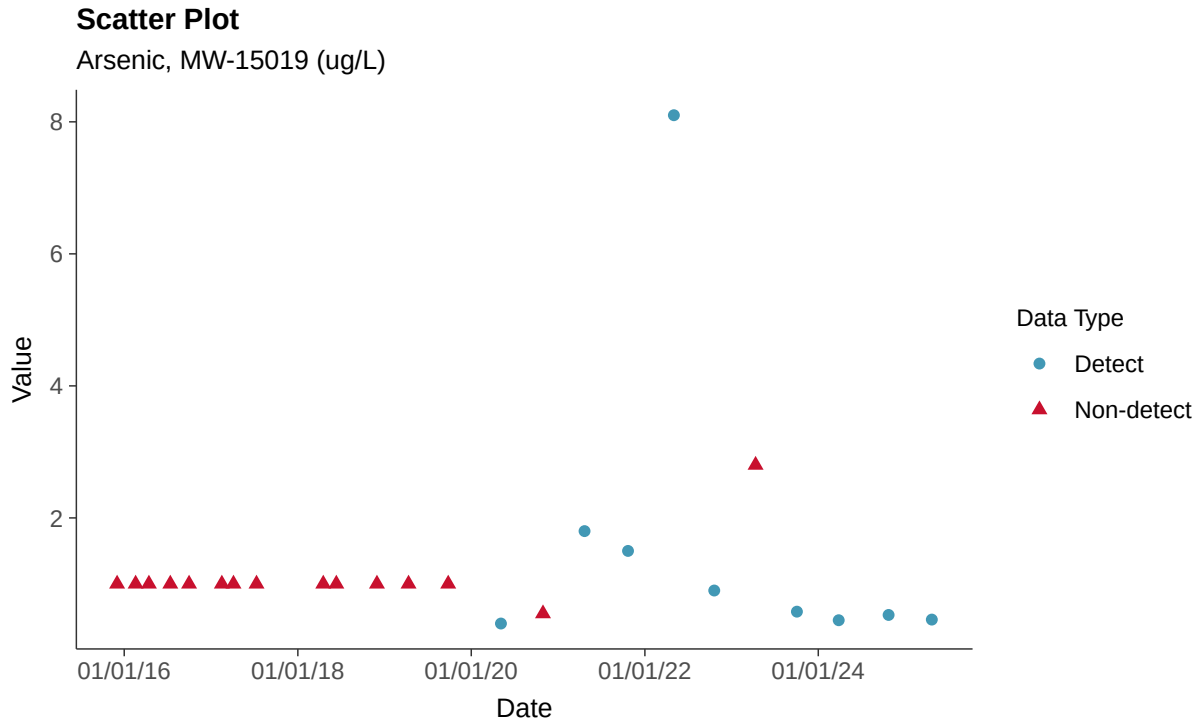
Trend Regression: Piecewise Linear-Linear

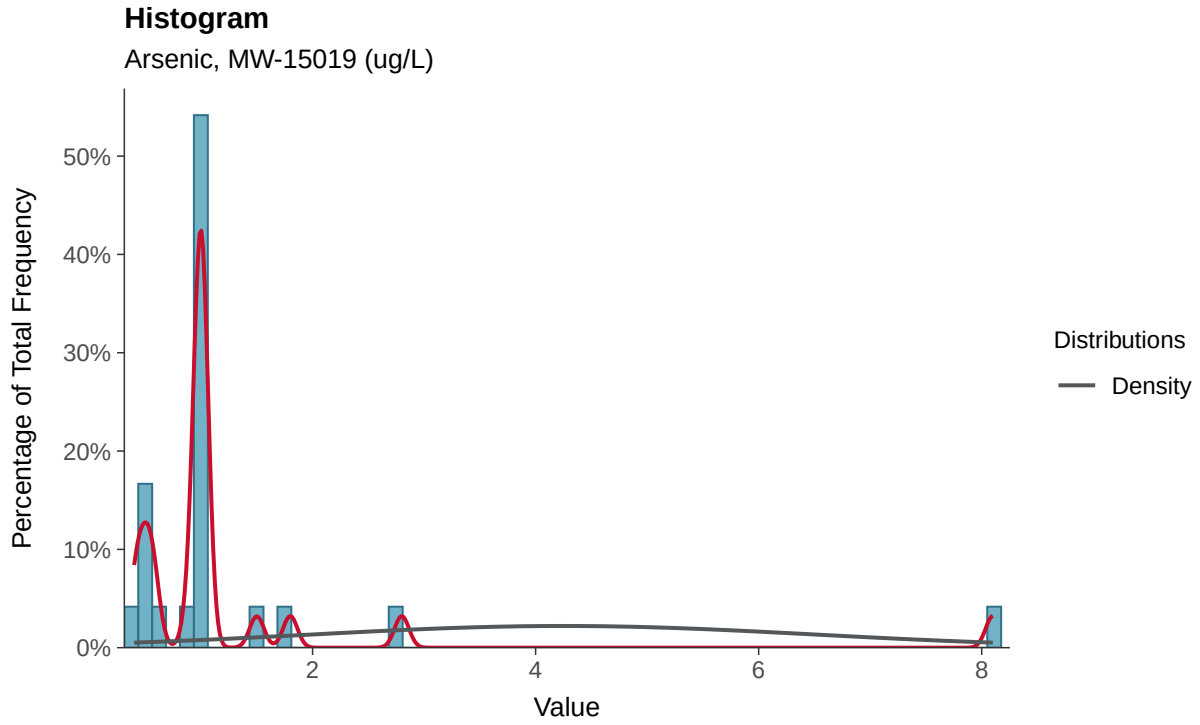
Antimony, MW-15019 (ug/L)



Appendix IV: Arsenic, MW-15019

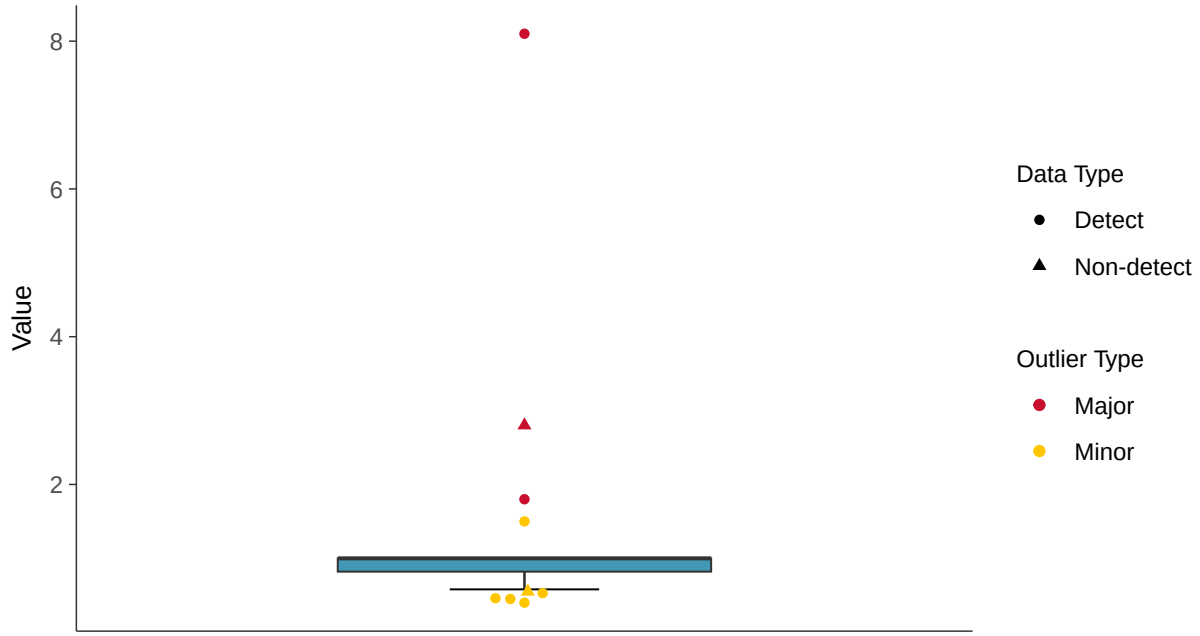
ID: 09_2_102





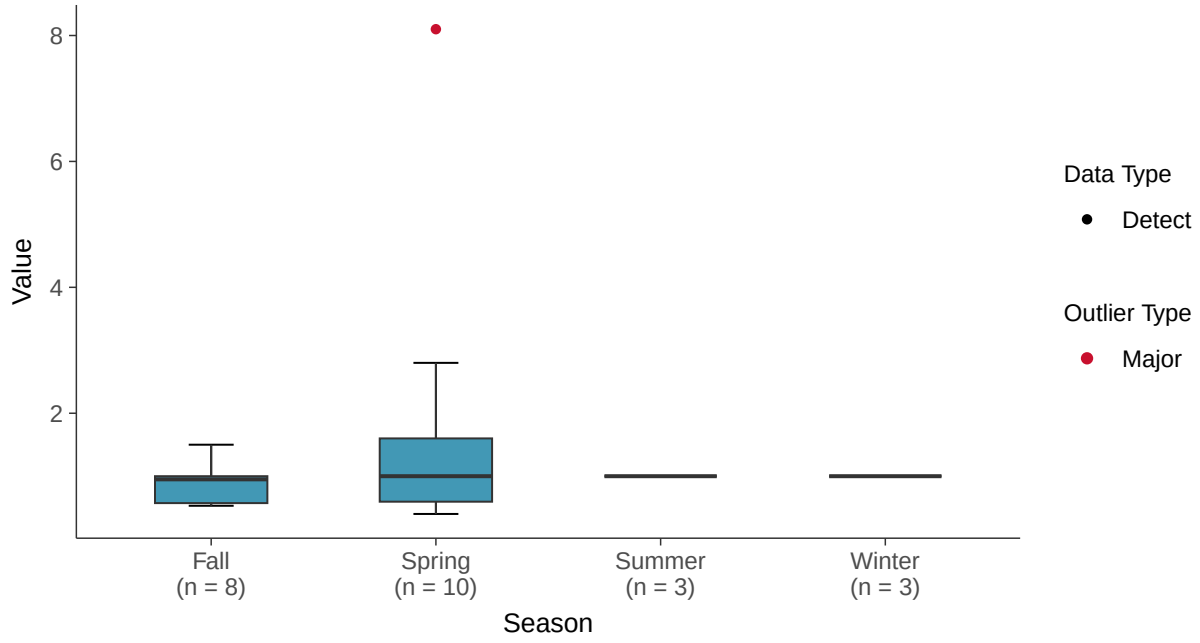
Boxplot

Arsenic, MW-15019 (ug/L)



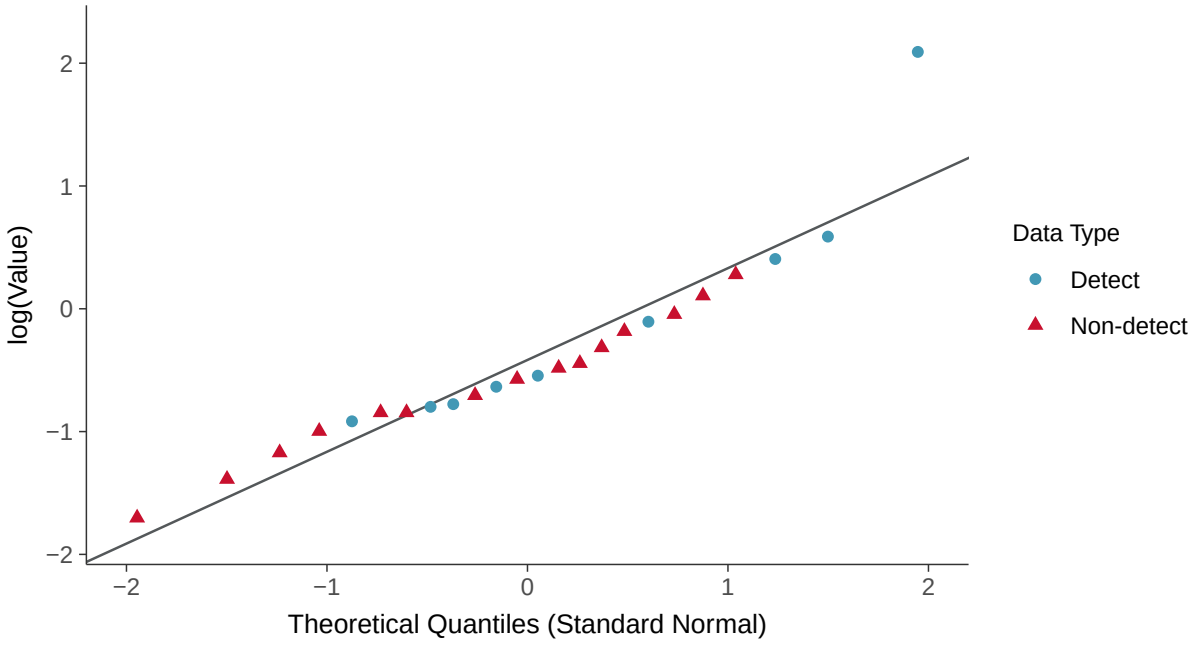
Boxplot by Season

Arsenic, MW-15019 (ug/L)



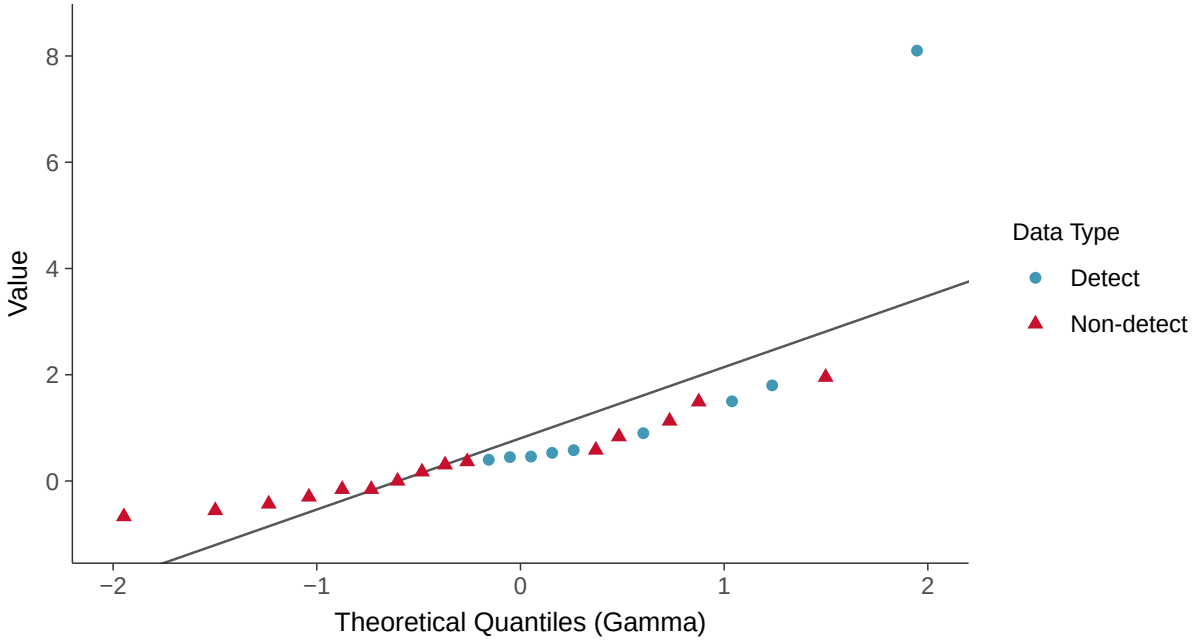
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15019 (ug/L)



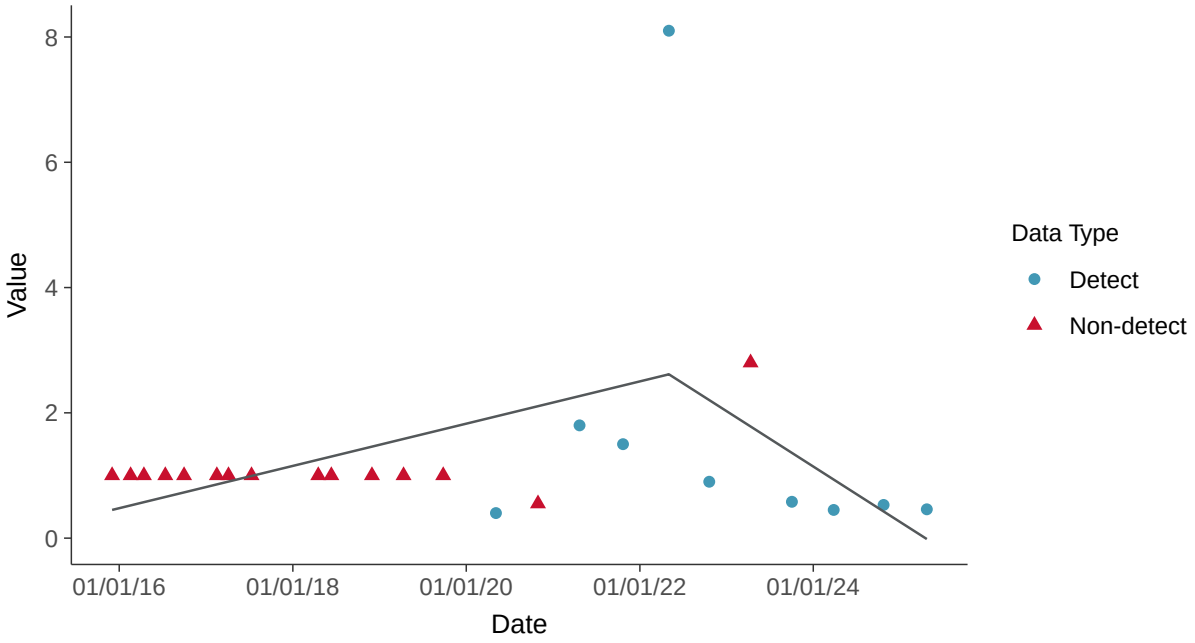
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15019 (ug/L)



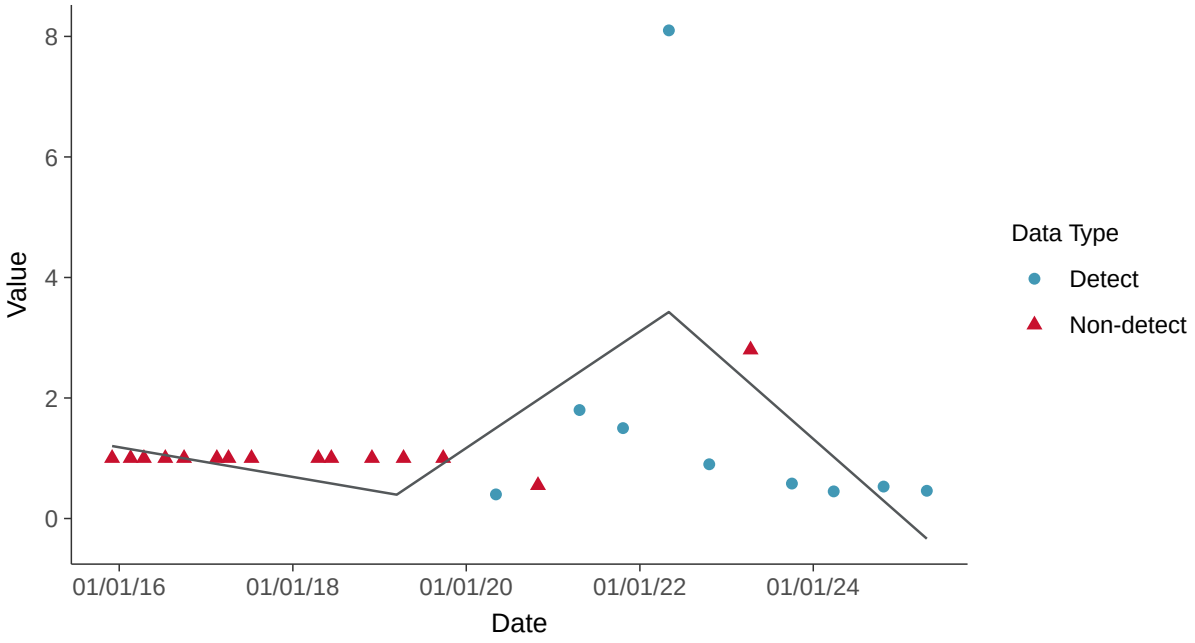
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-15019 (ug/L)



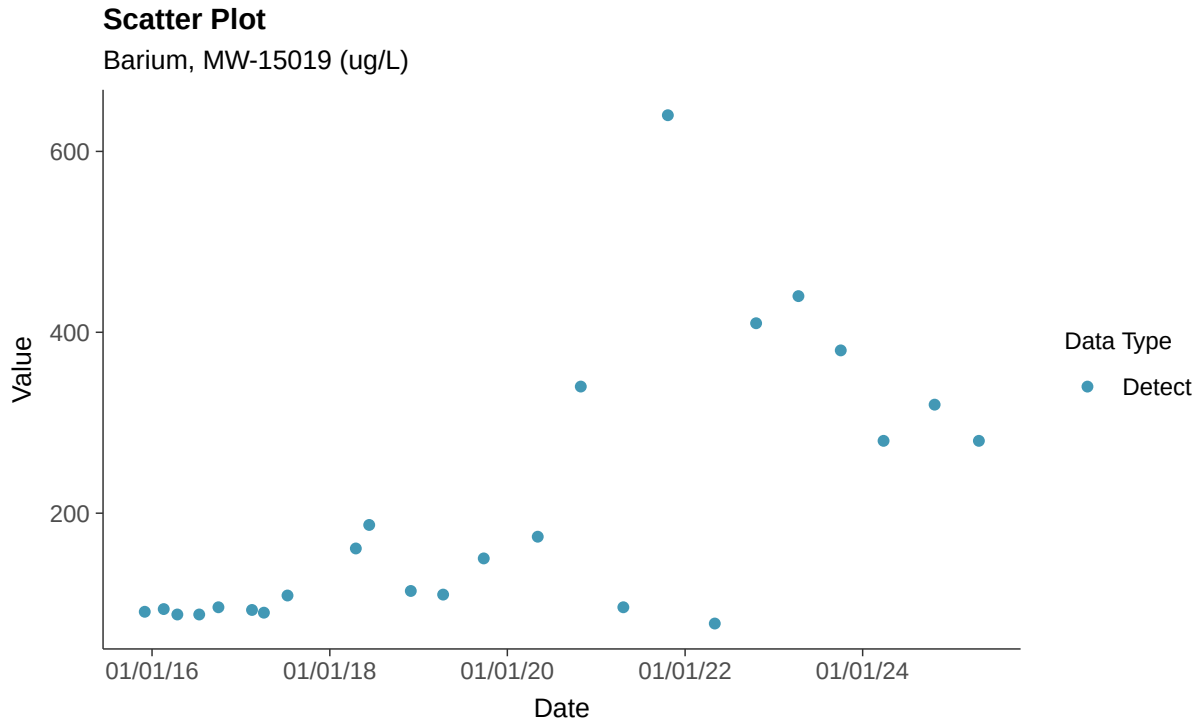
Trend Regression: Piecewise Linear-Linear-Linear

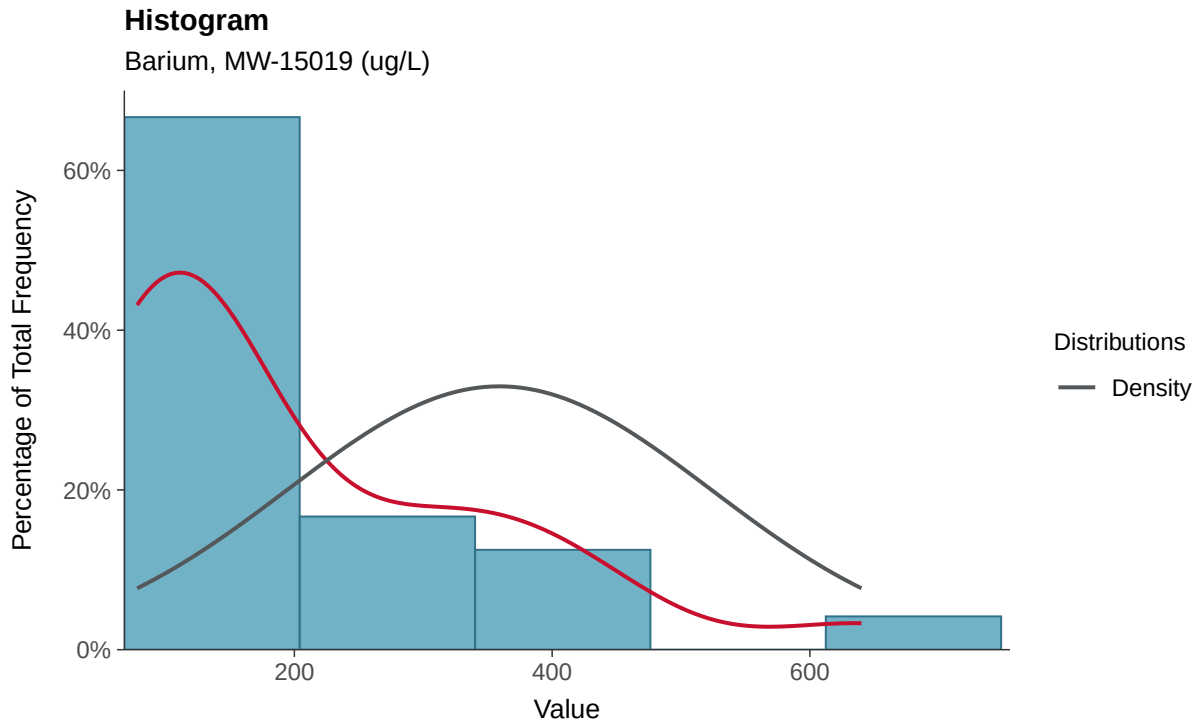
Arsenic, MW-15019 (ug/L)



Appendix IV: Barium, MW-15019

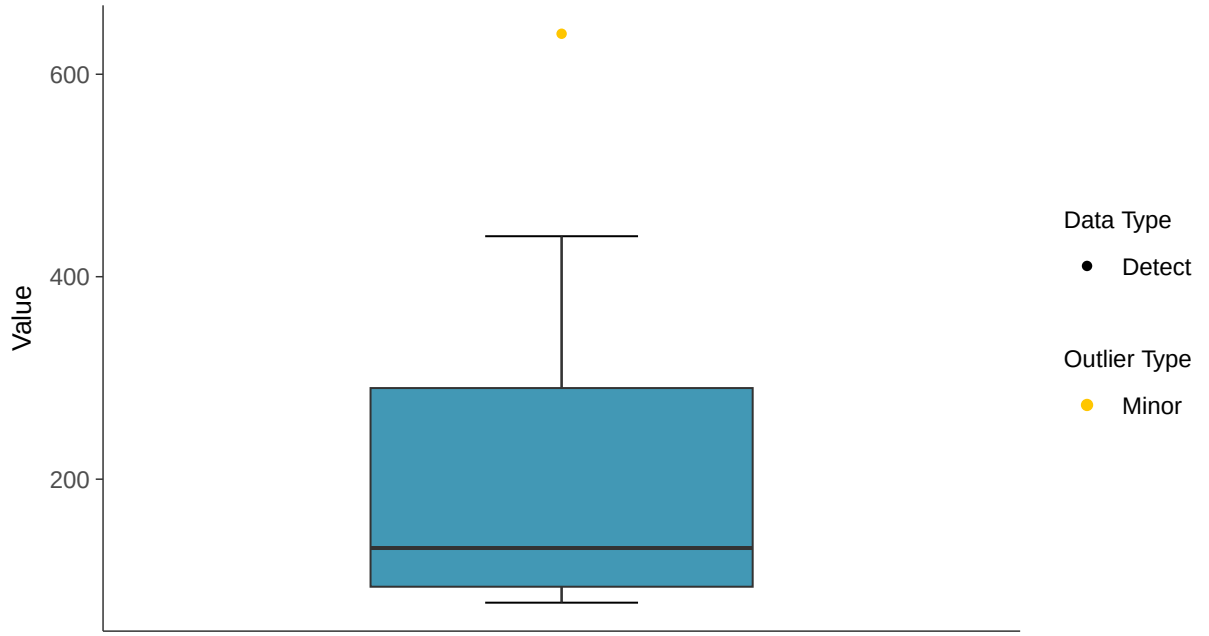
ID: 09_2_103





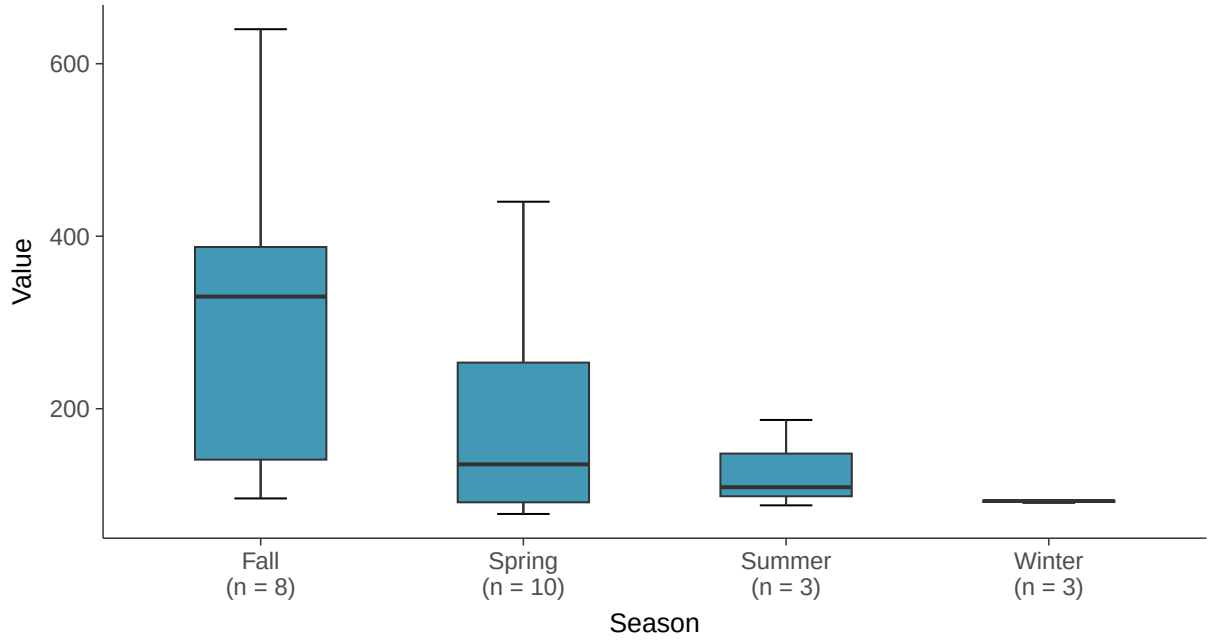
Boxplot

Barium, MW-15019 (ug/L)



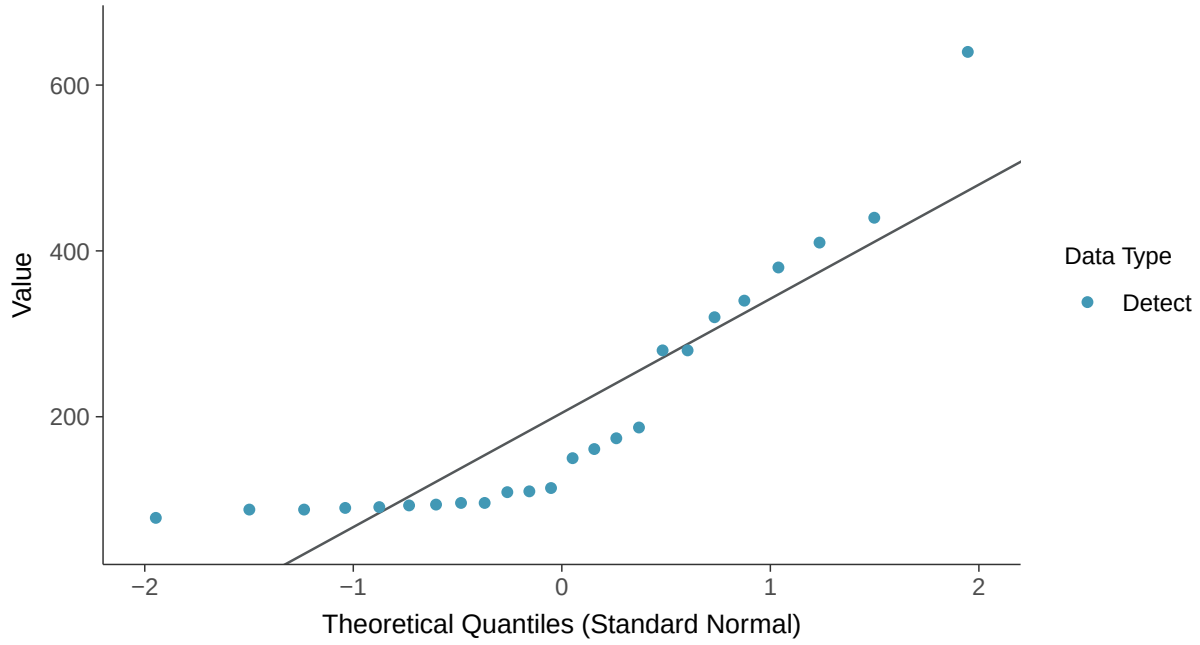
Boxplot by Season

Barium, MW-15019 (ug/L)



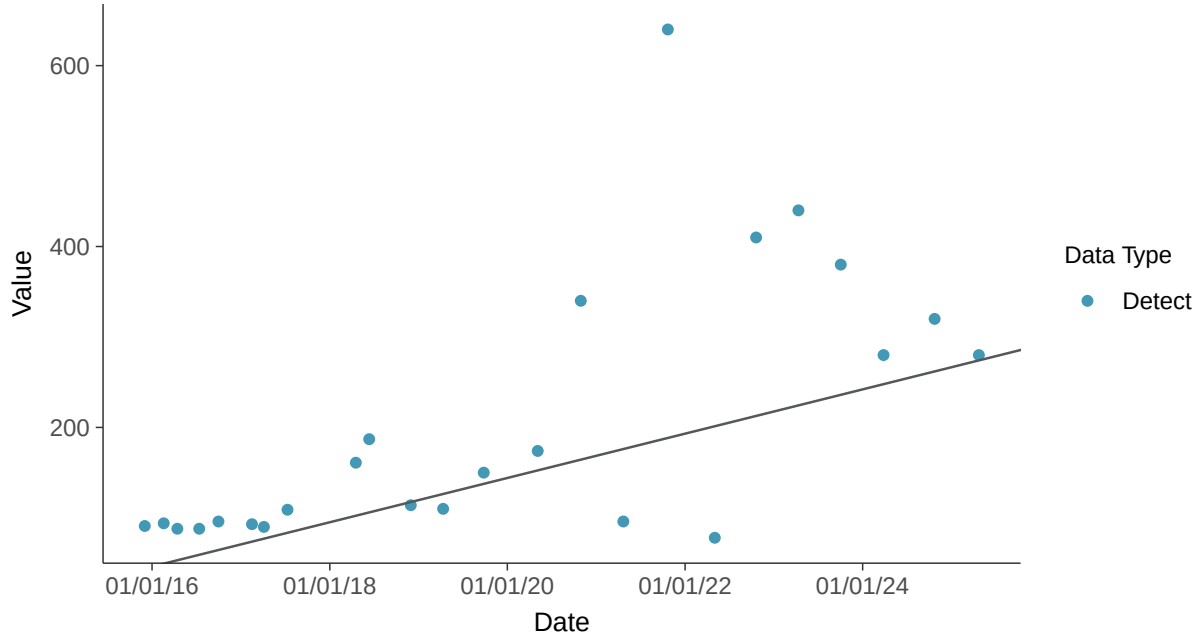
Normal Q-Q plot

Barium, MW-15019 (ug/L)



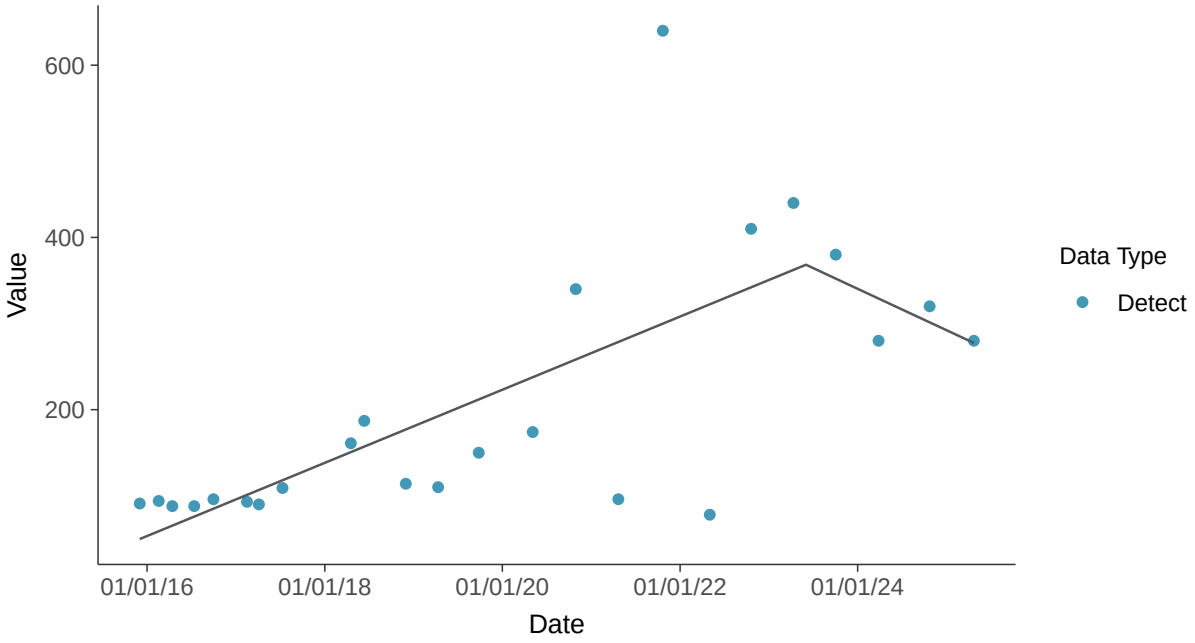
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Barium, MW-15019 (ug/L)



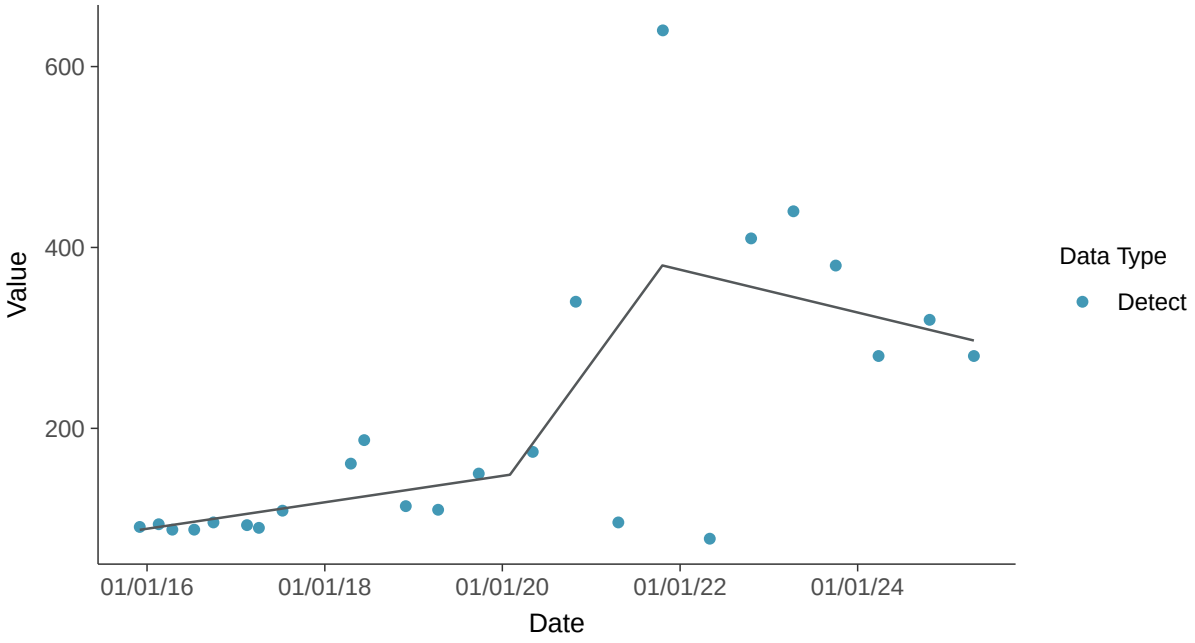
Trend Regression: Piecewise Linear-Linear

Barium, MW-15019 (ug/L)



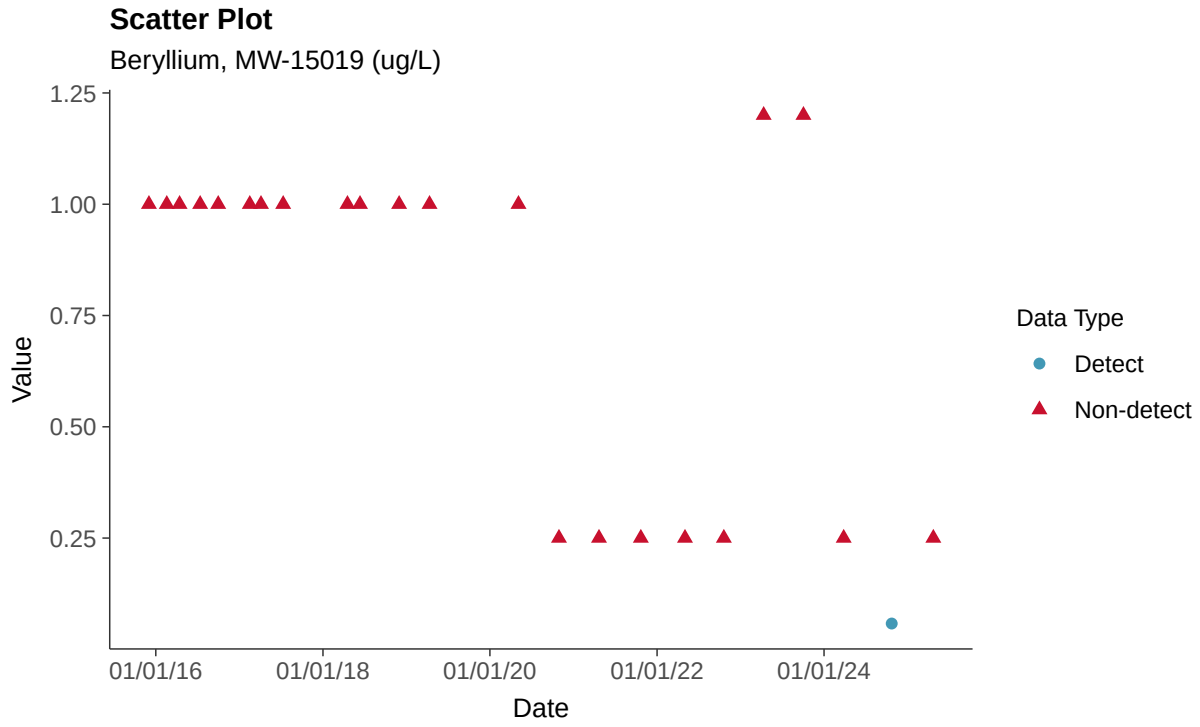
Trend Regression: Piecewise Linear-Linear-Linear

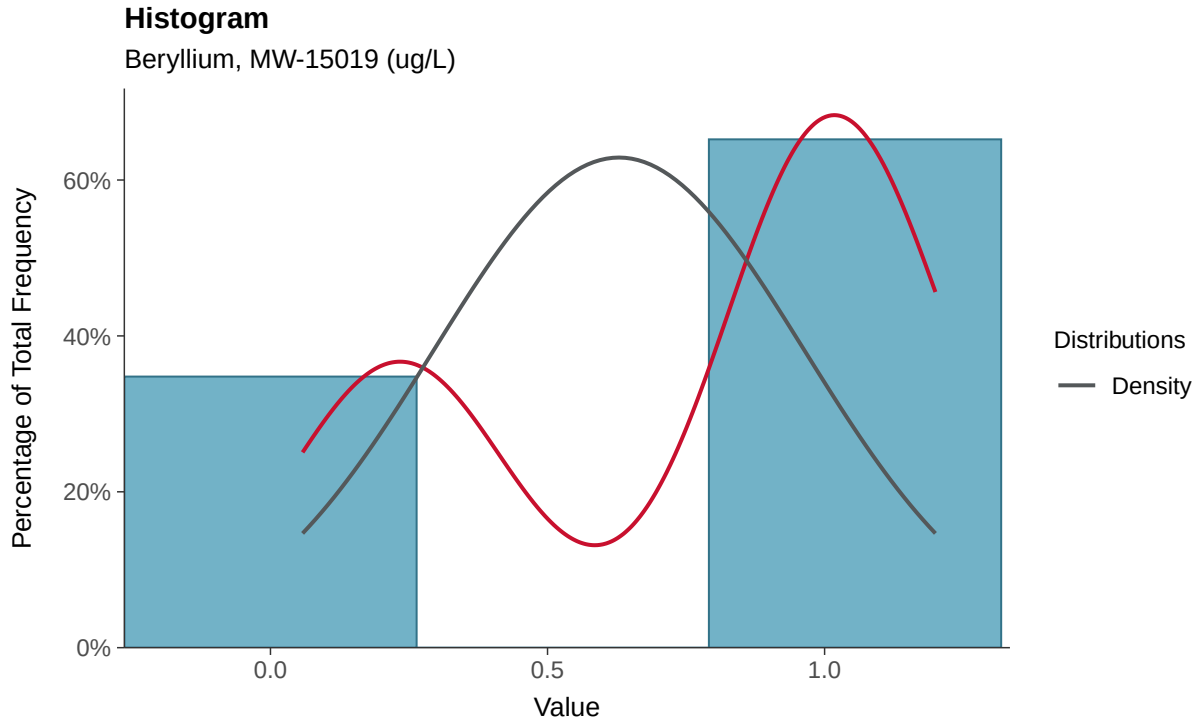
Barium, MW-15019 (ug/L)



Appendix IV: Beryllium, MW-15019

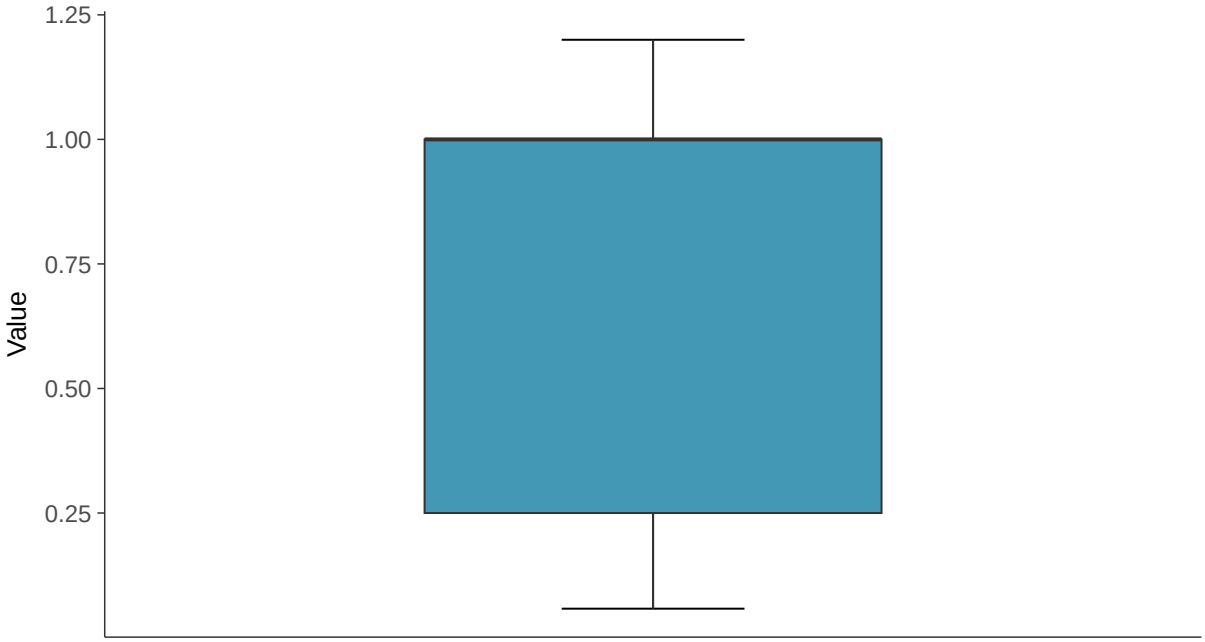
ID: 09_2_104





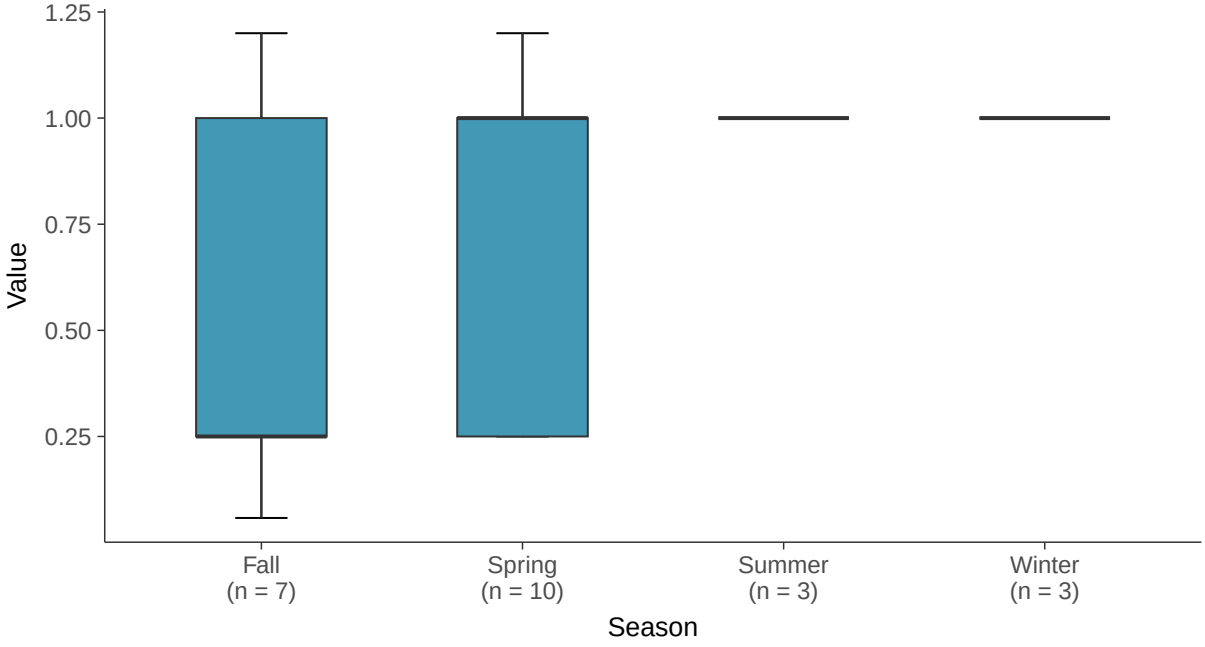
Boxplot

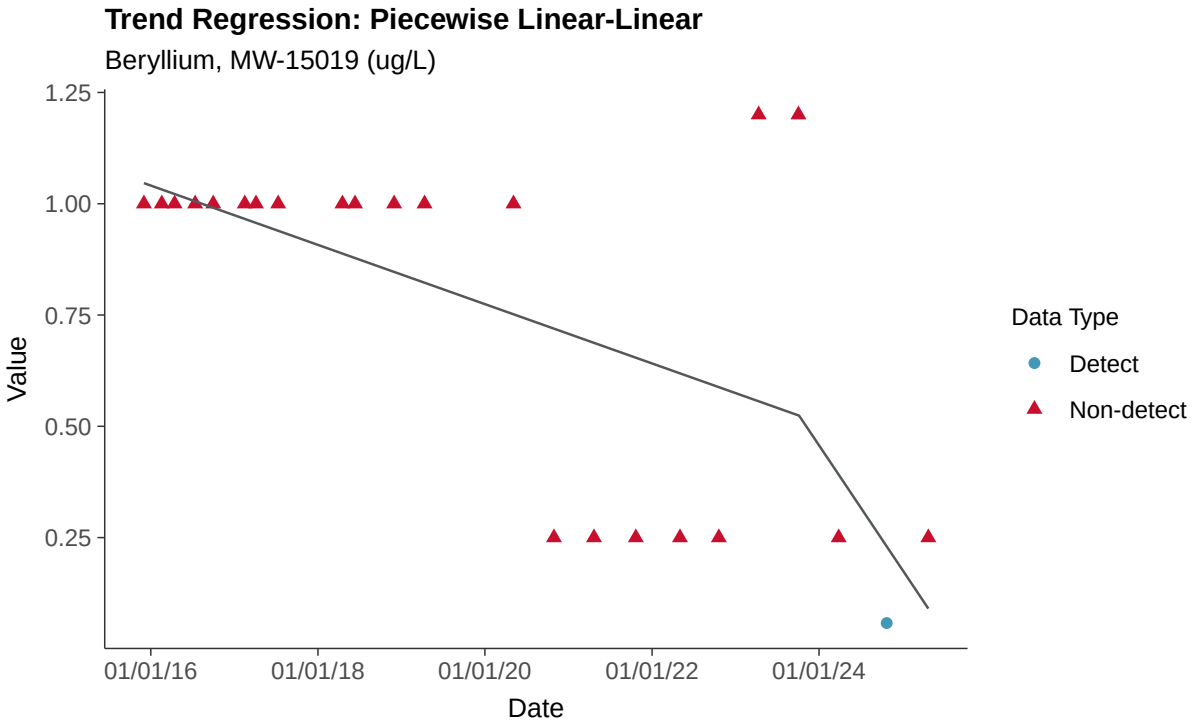
Beryllium, MW-15019 (ug/L)



Boxplot by Season

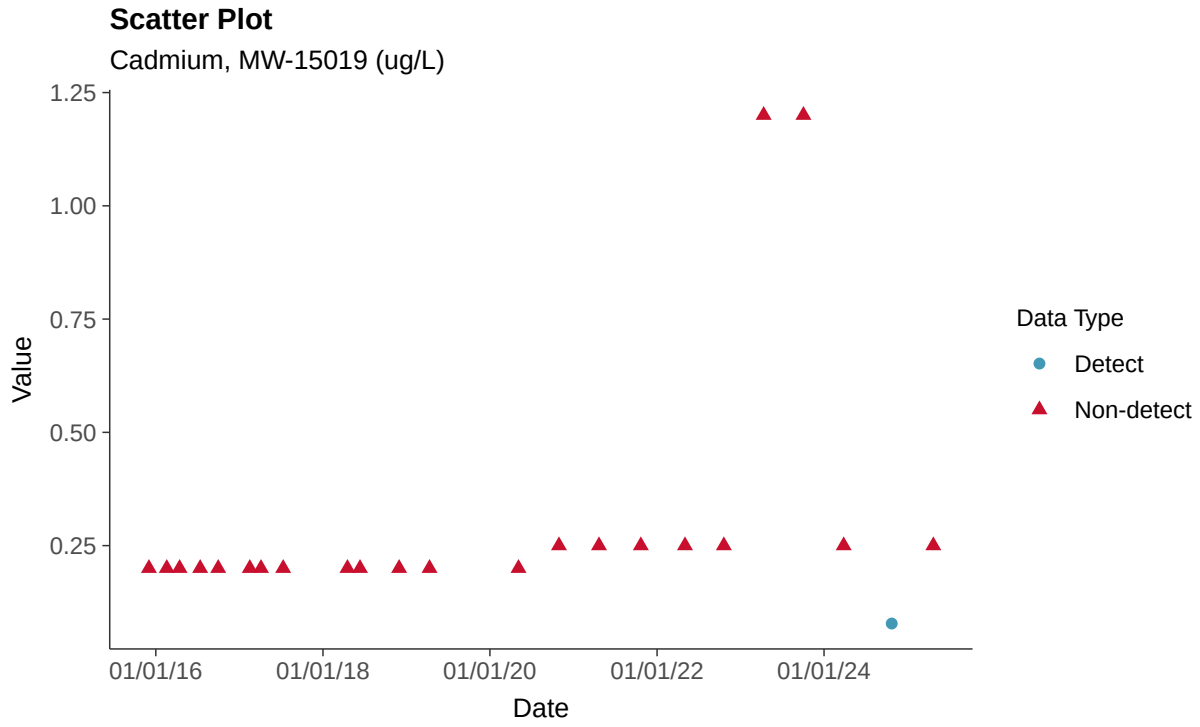
Beryllium, MW-15019 (ug/L)

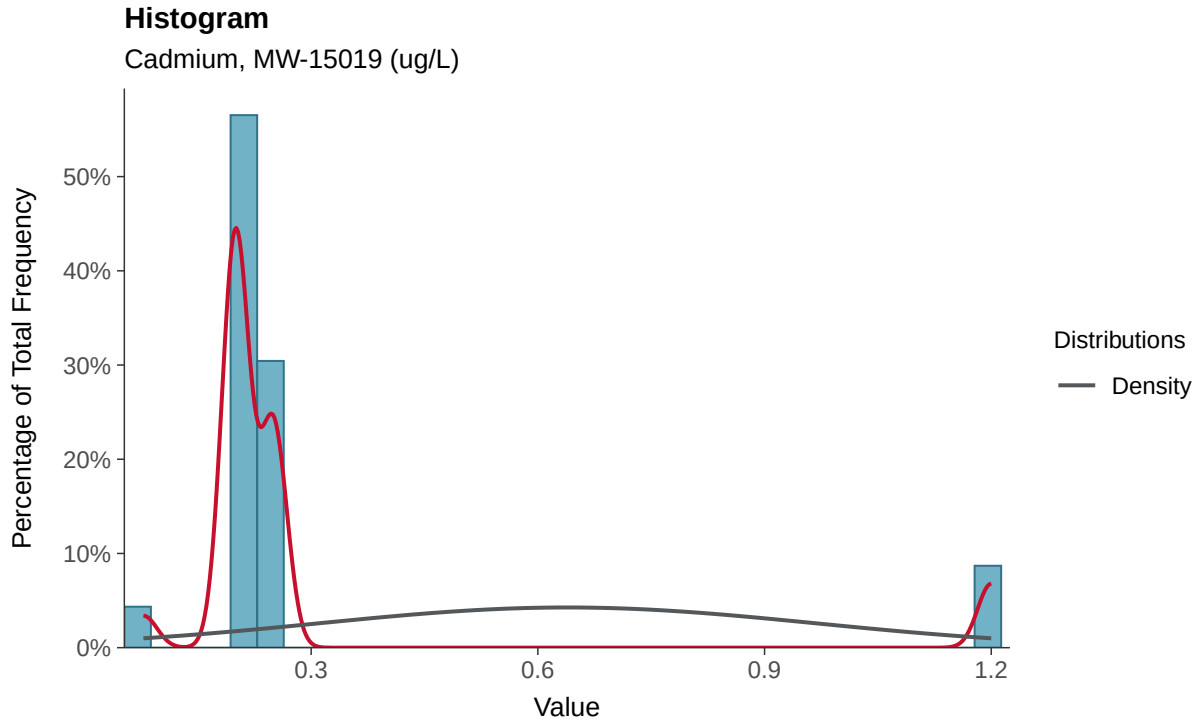



Trend Regression: Piecewise Linear-Linear
Beryllium, MW-15019 (ug/L)
1.25
1.00
0.75
0.50
0.25
Value
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Detect
Non-detect

Appendix IV: Cadmium, MW-15019

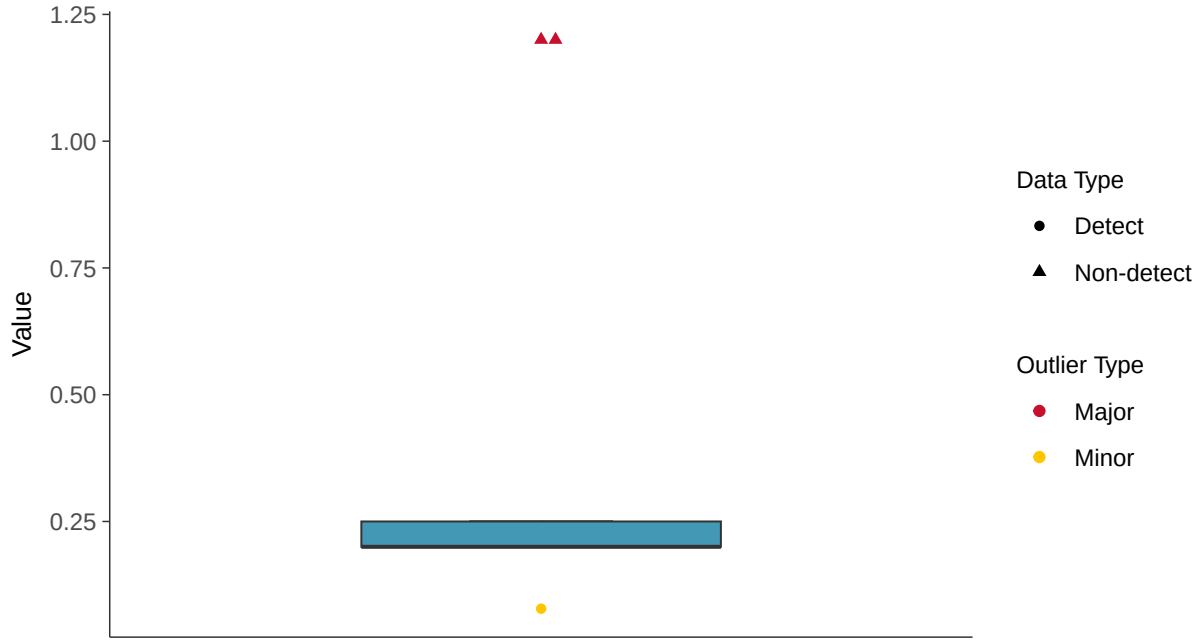
ID: 09_2_106





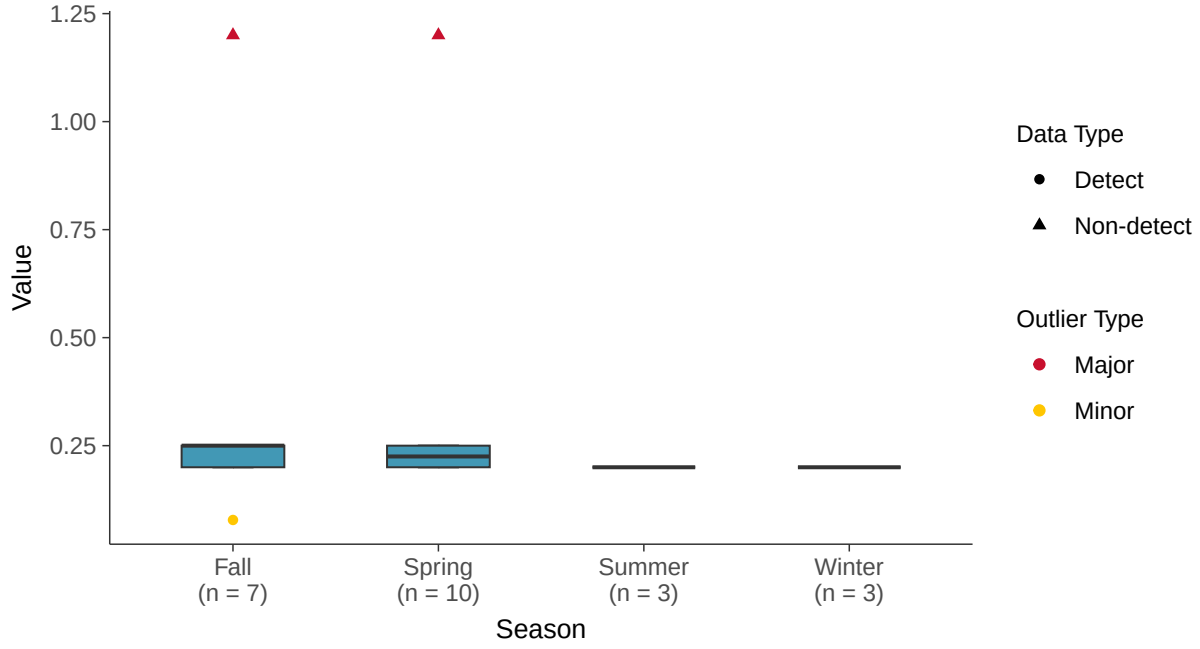
Boxplot

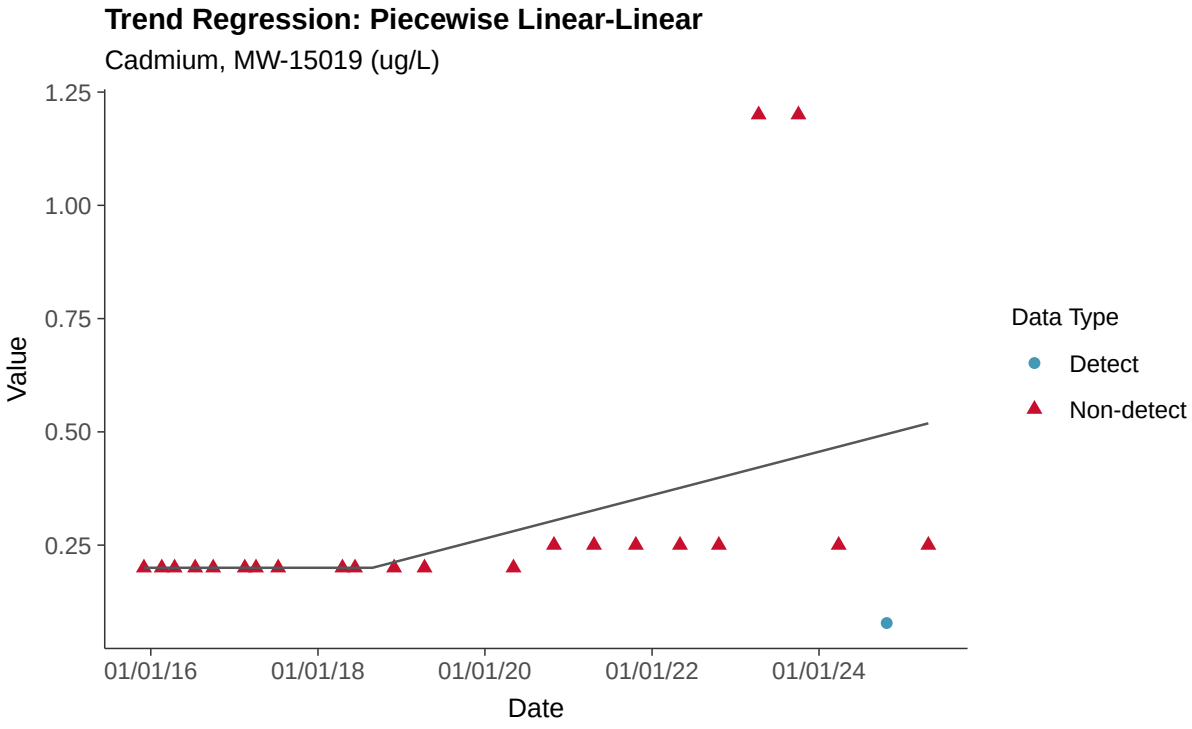
Cadmium, MW-15019 (ug/L)



Boxplot by Season

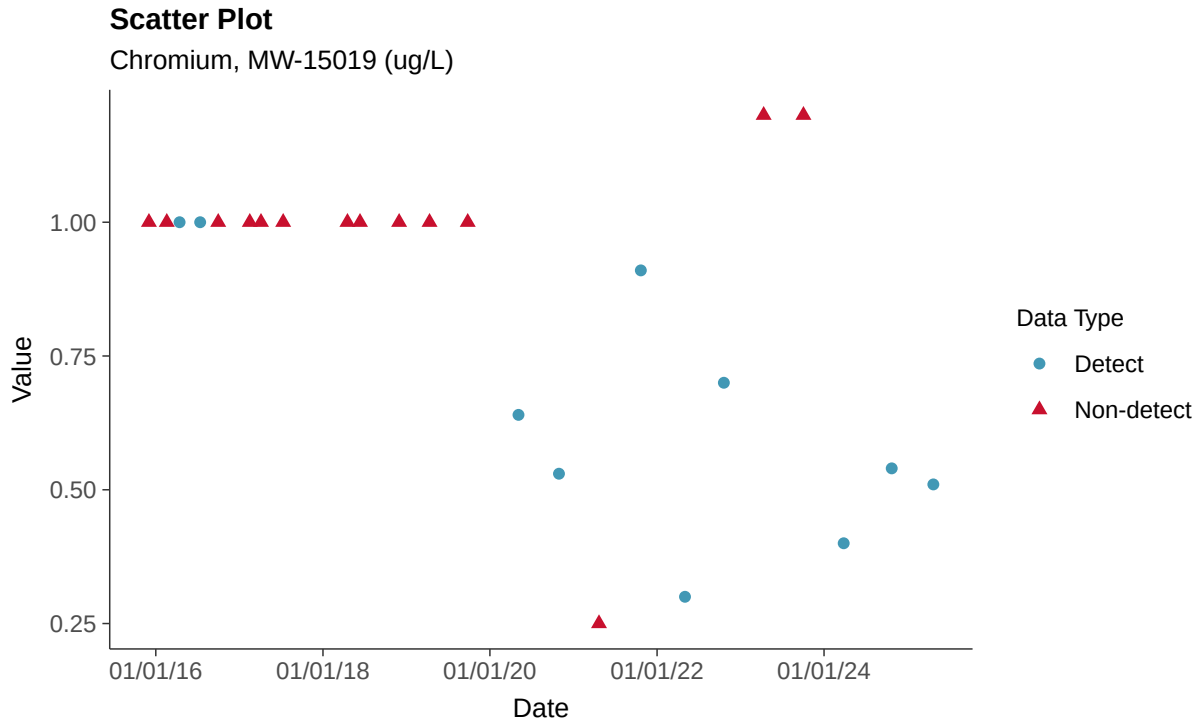
Cadmium, MW-15019 (ug/L)

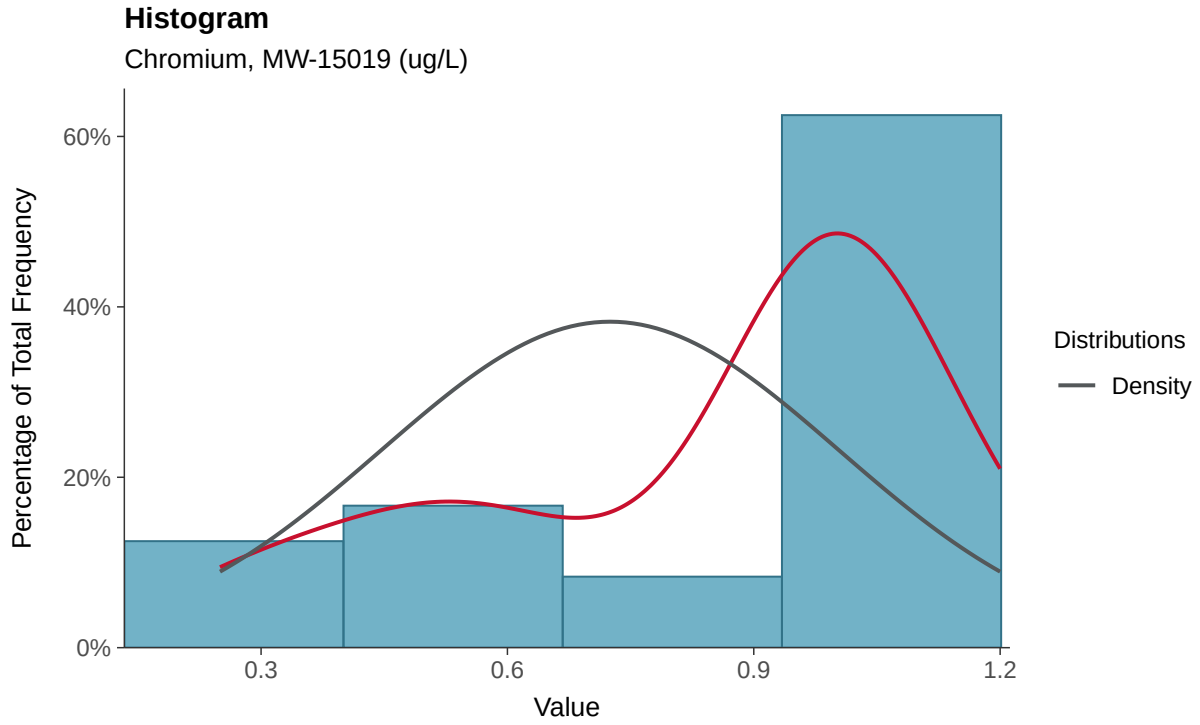



Trend Regression: Piecewise Linear-Linear
Cadmium, MW-15019 (ug/L)
Value
1.25
1.00
0.75
0.50
0.25
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Detect
Non-detect

Appendix IV: Chromium, MW-15019

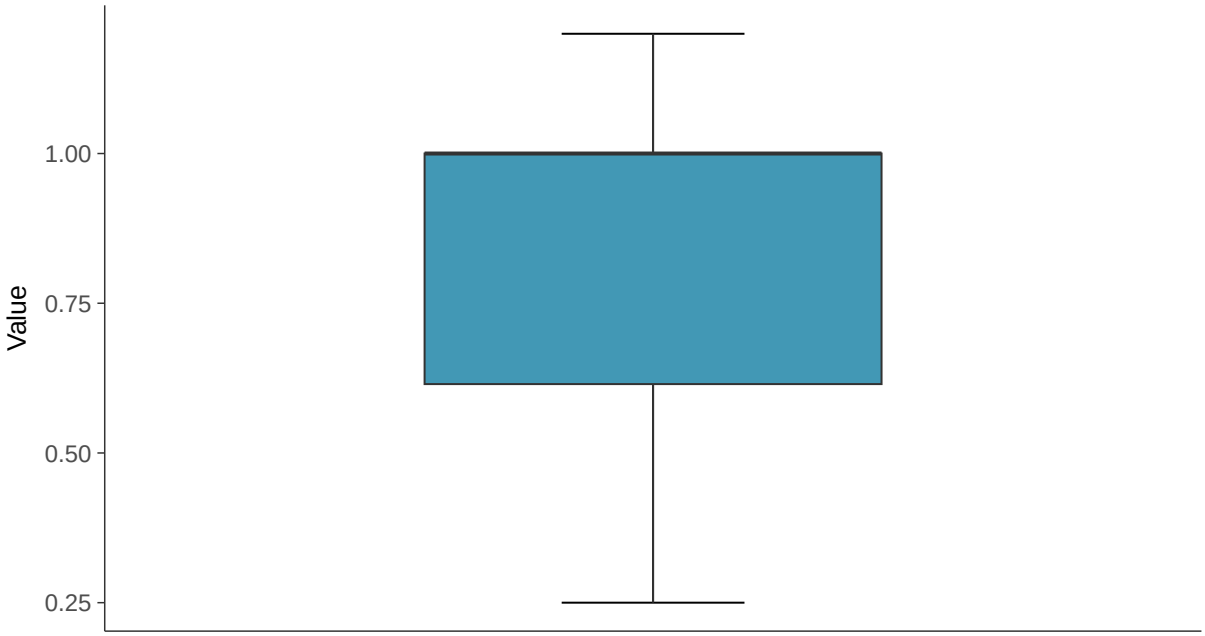
ID: 09_2_109





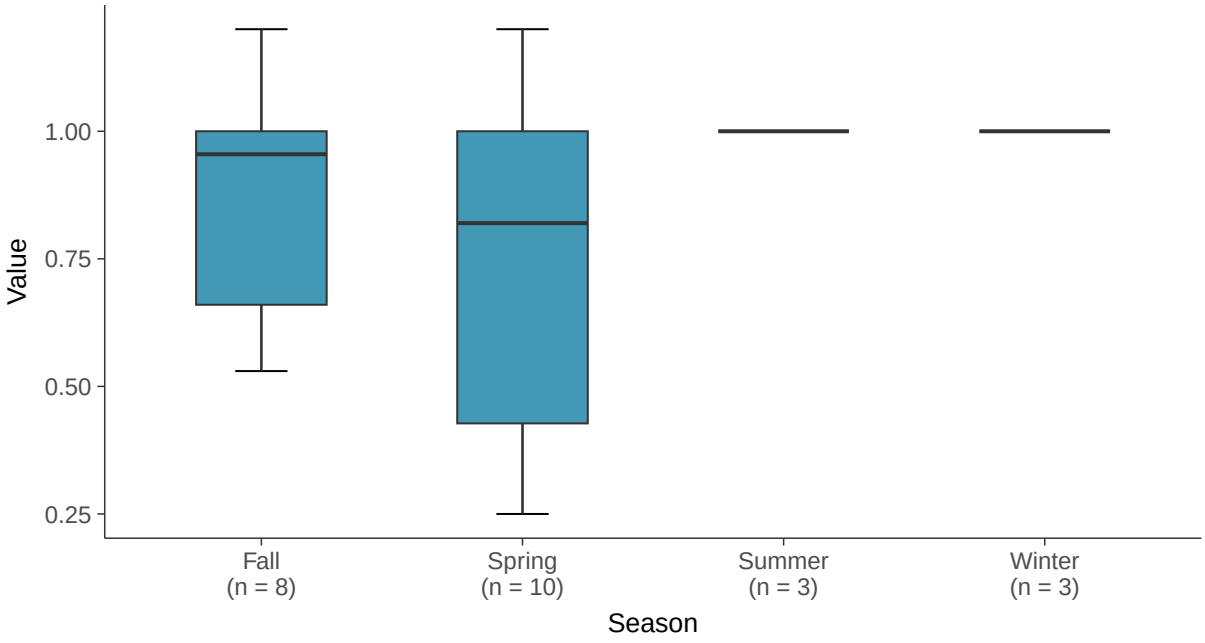
Boxplot

Chromium, MW-15019 (ug/L)



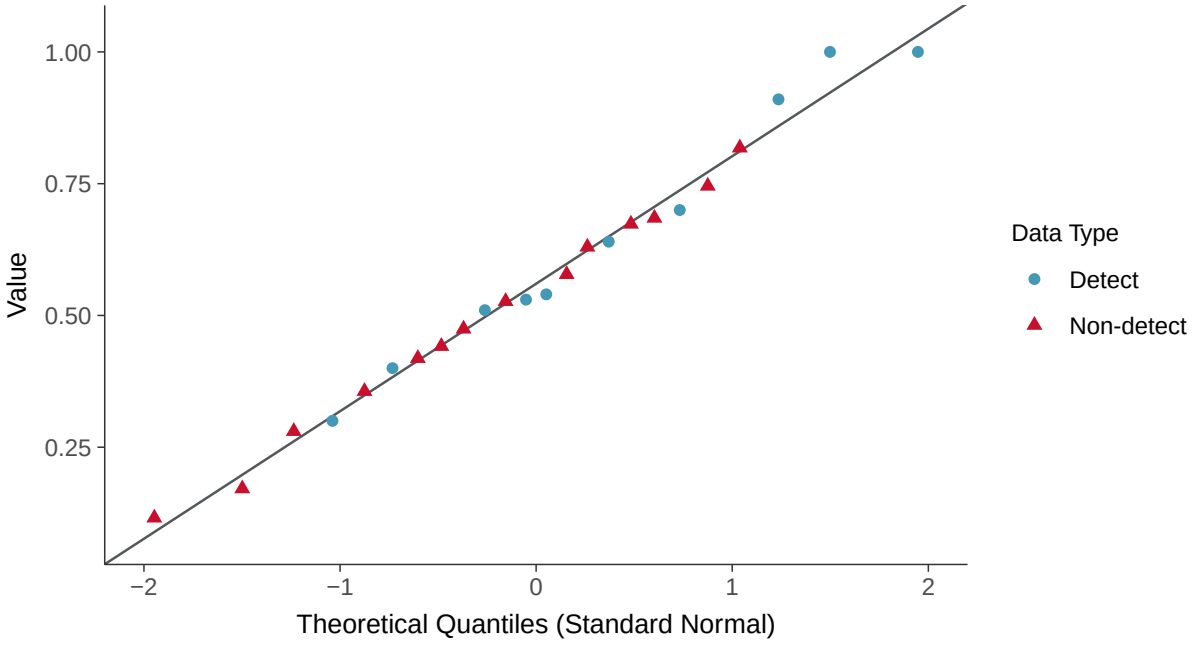
Boxplot by Season

Chromium, MW-15019 (ug/L)



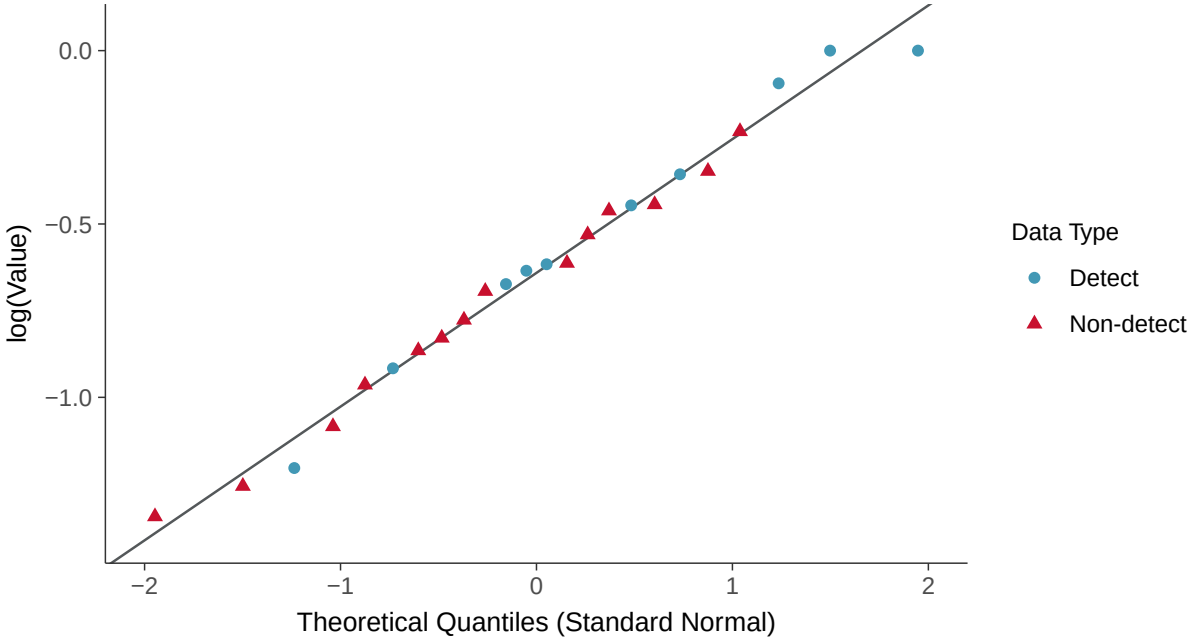
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15019 (ug/L)



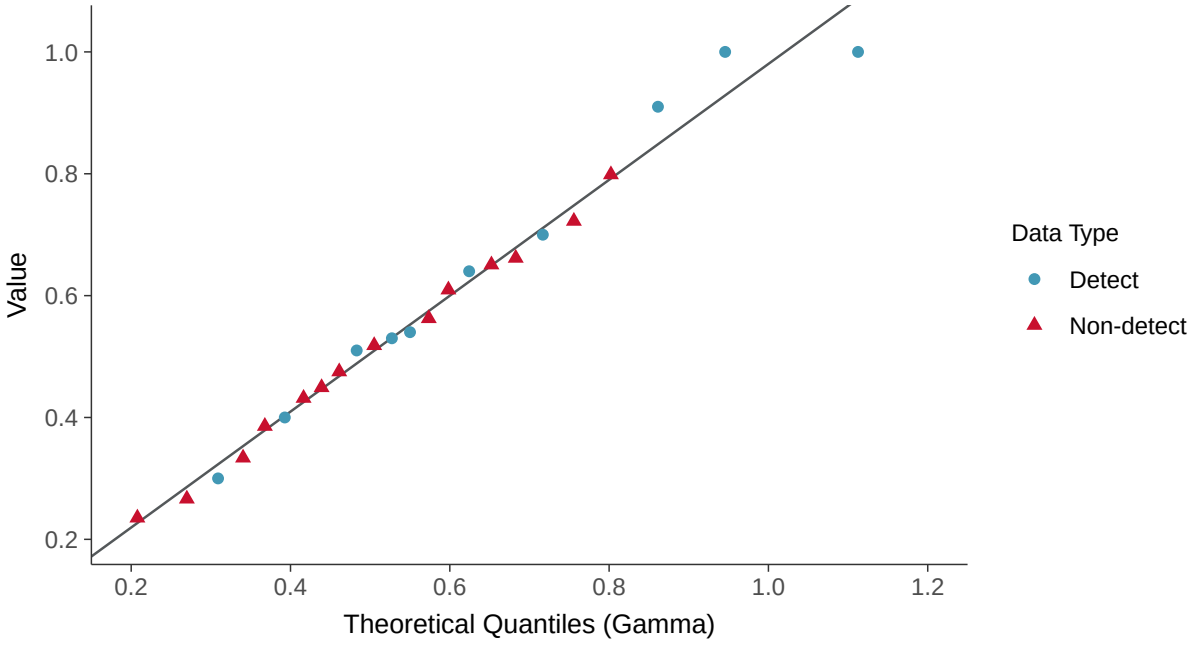
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15019 (ug/L)



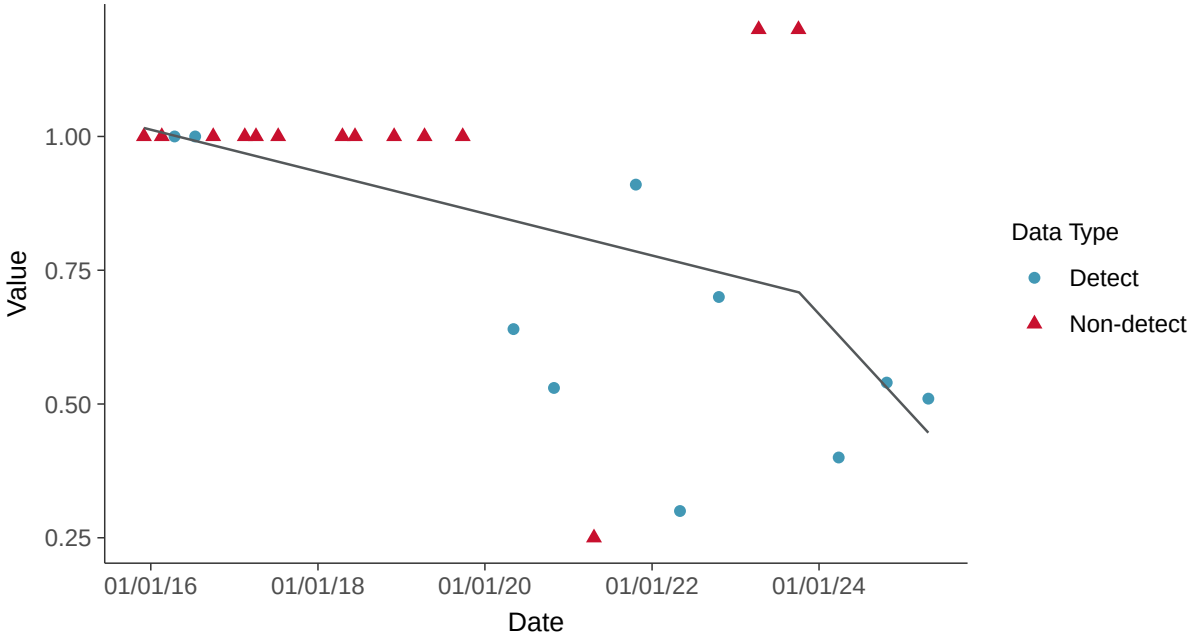
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, MW-15019 (ug/L)



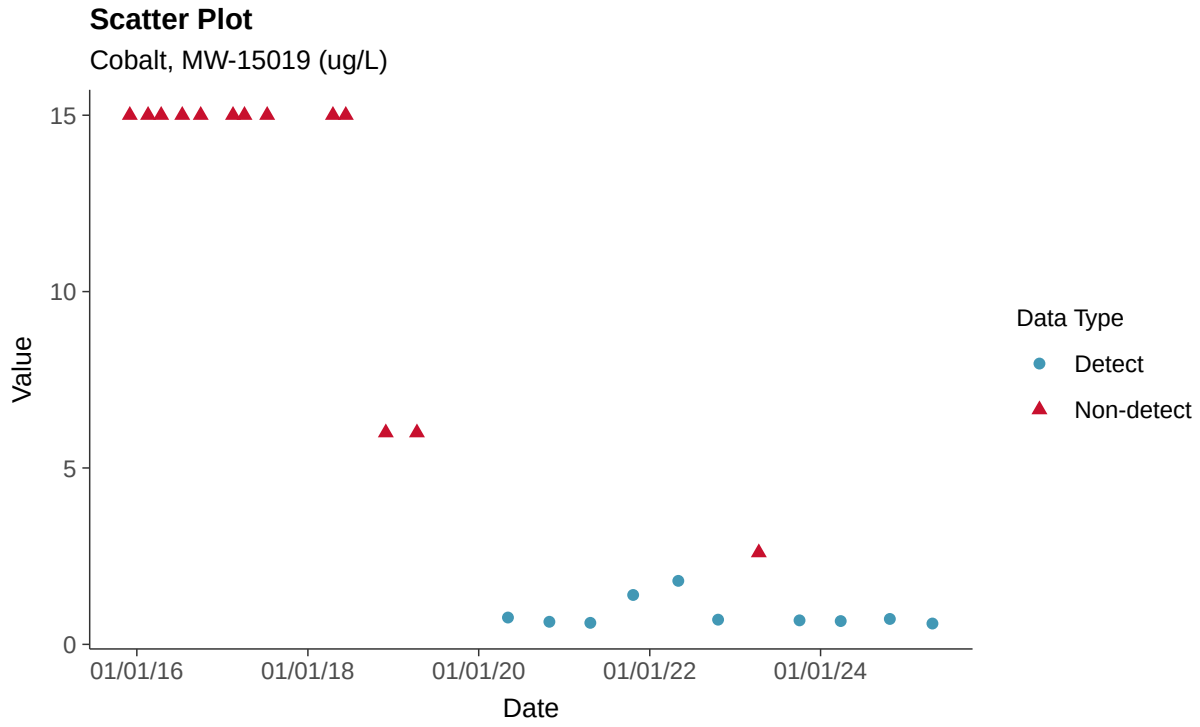
Trend Regression: Piecewise Linear-Linear

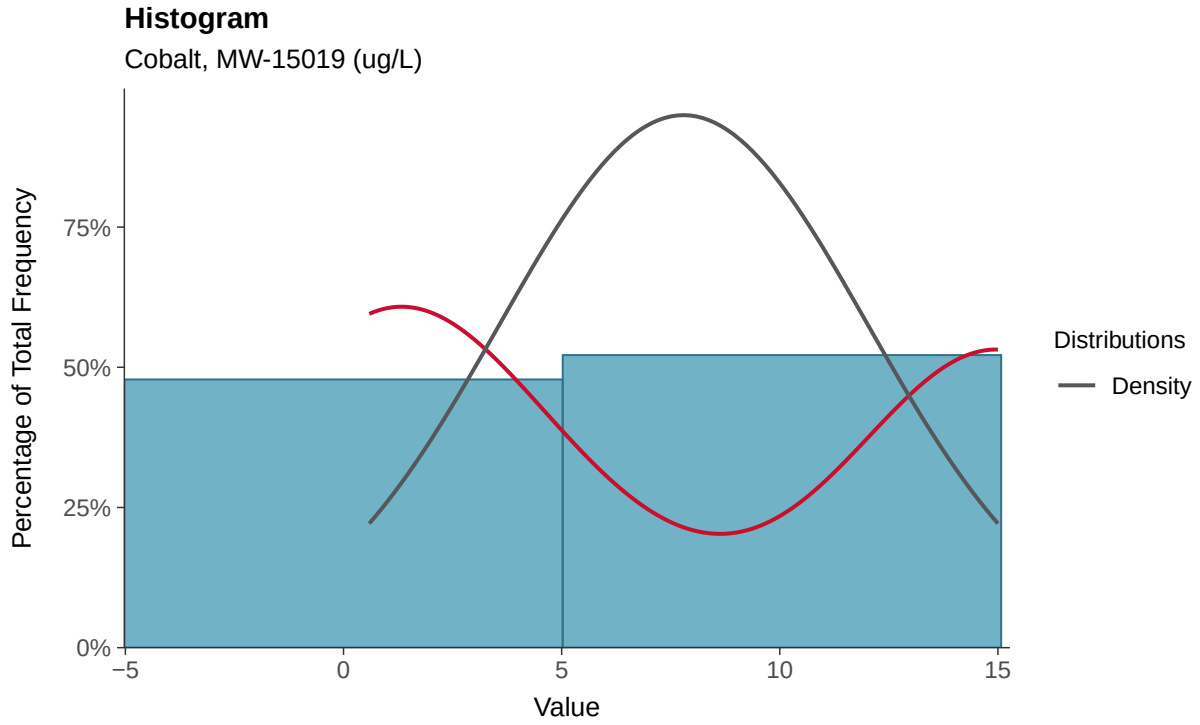
Chromium, MW-15019 (ug/L)



Appendix IV: Cobalt, MW-15019

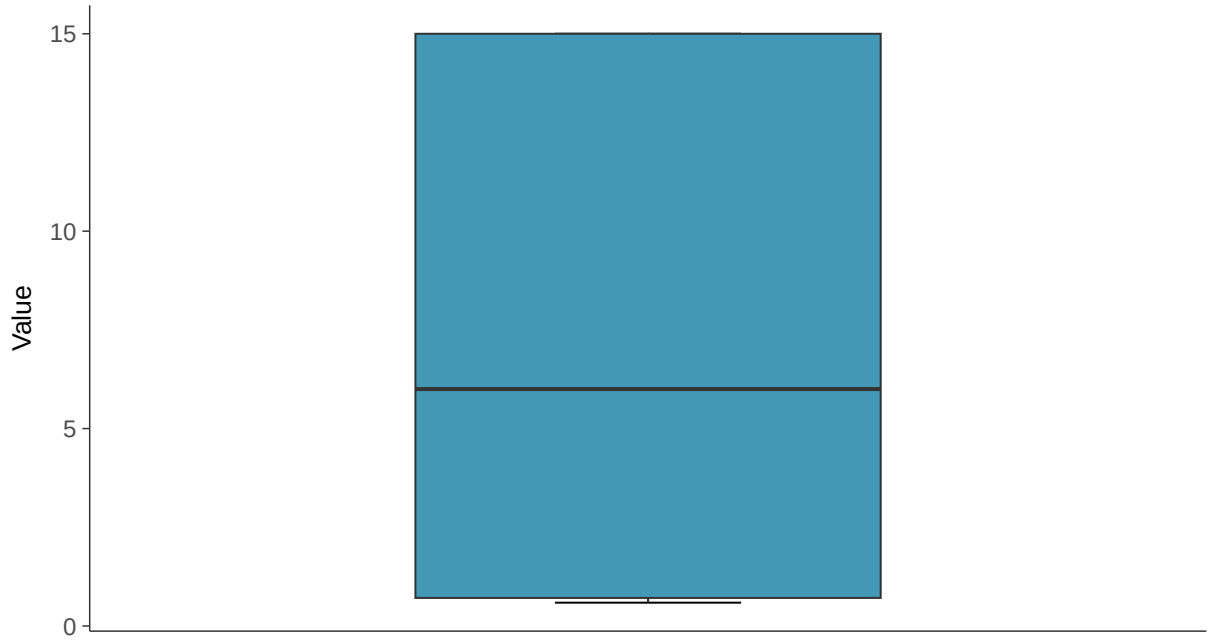
ID: 09_2_110





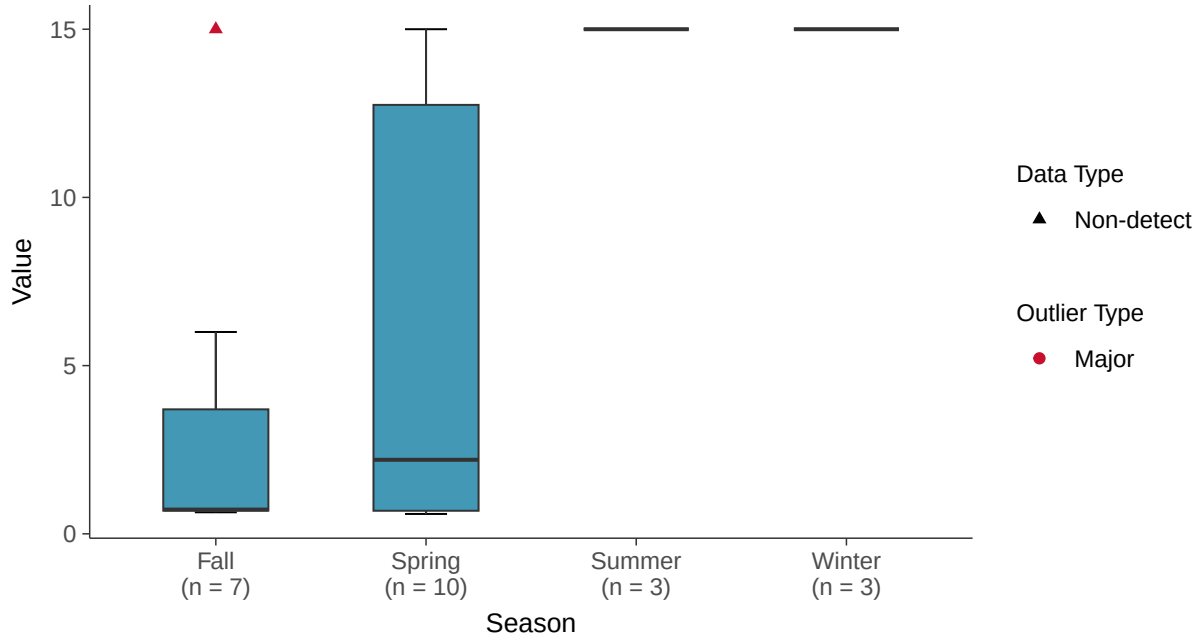
Boxplot

Cobalt, MW-15019 (ug/L)



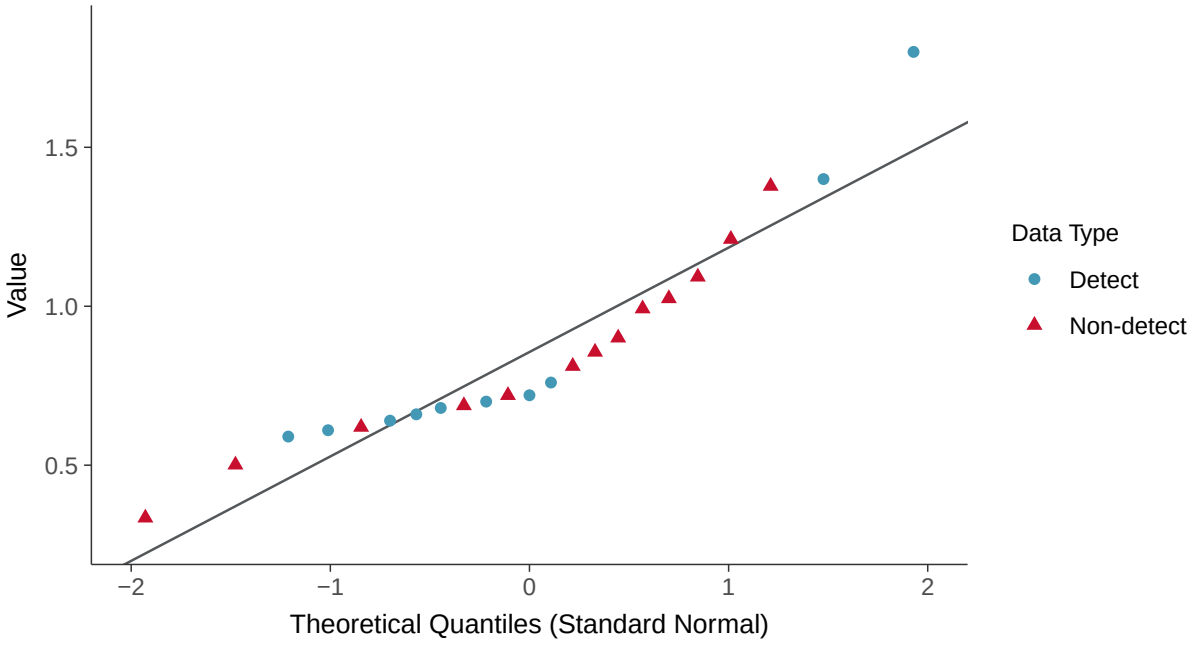
Boxplot by Season

Cobalt, MW-15019 (ug/L)



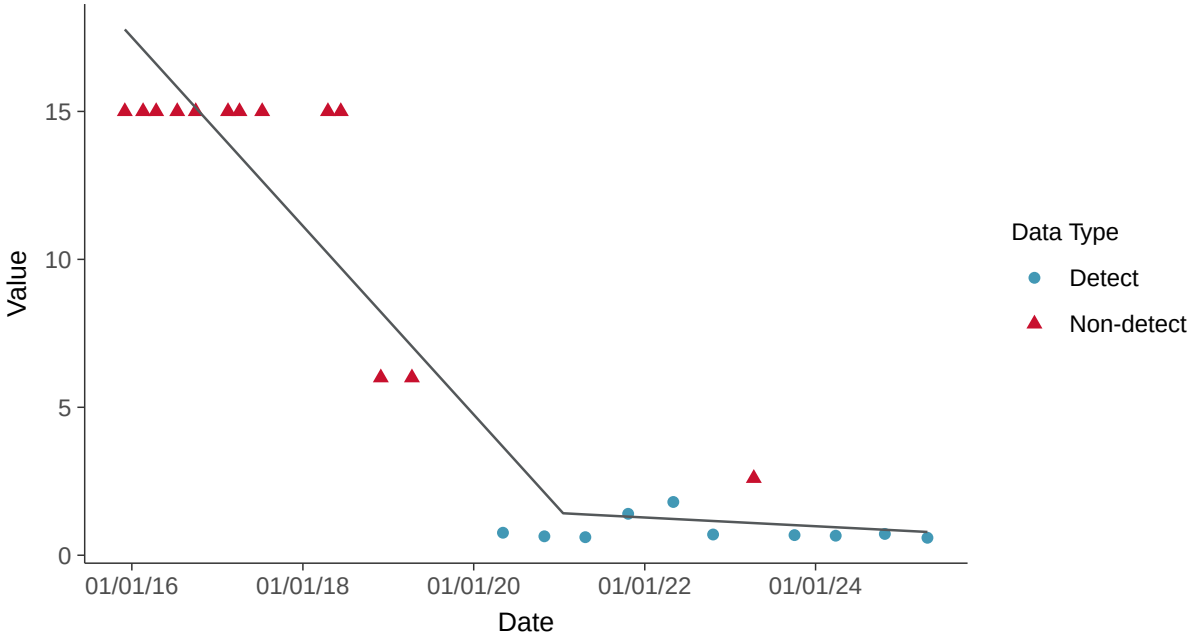
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15019 (ug/L)



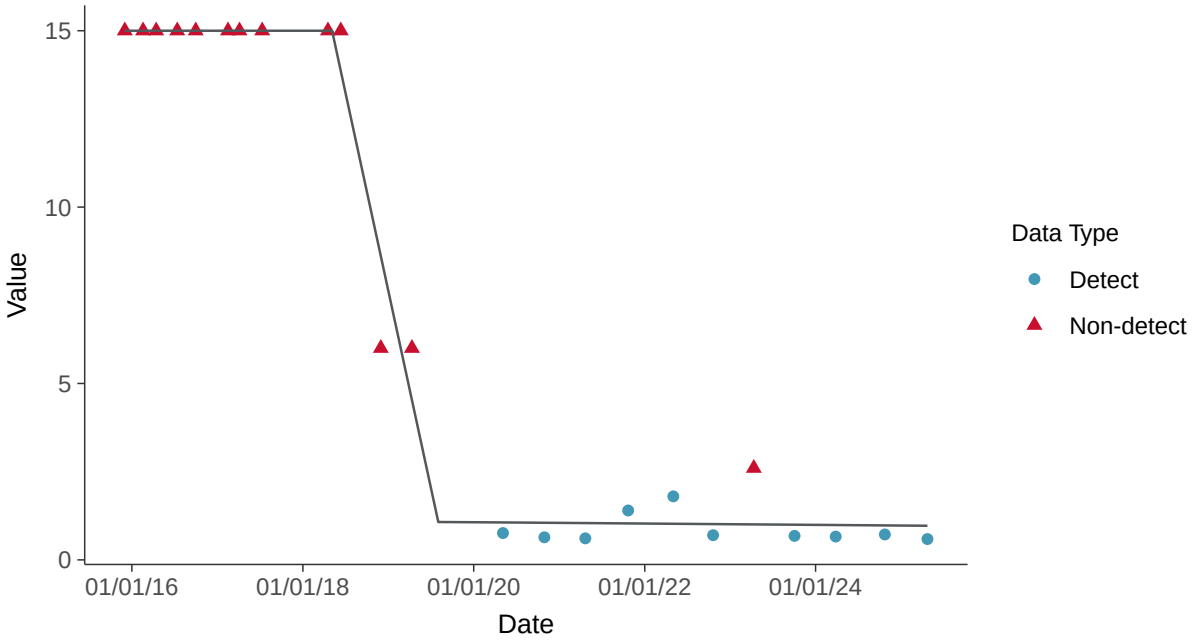
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15019 (ug/L)



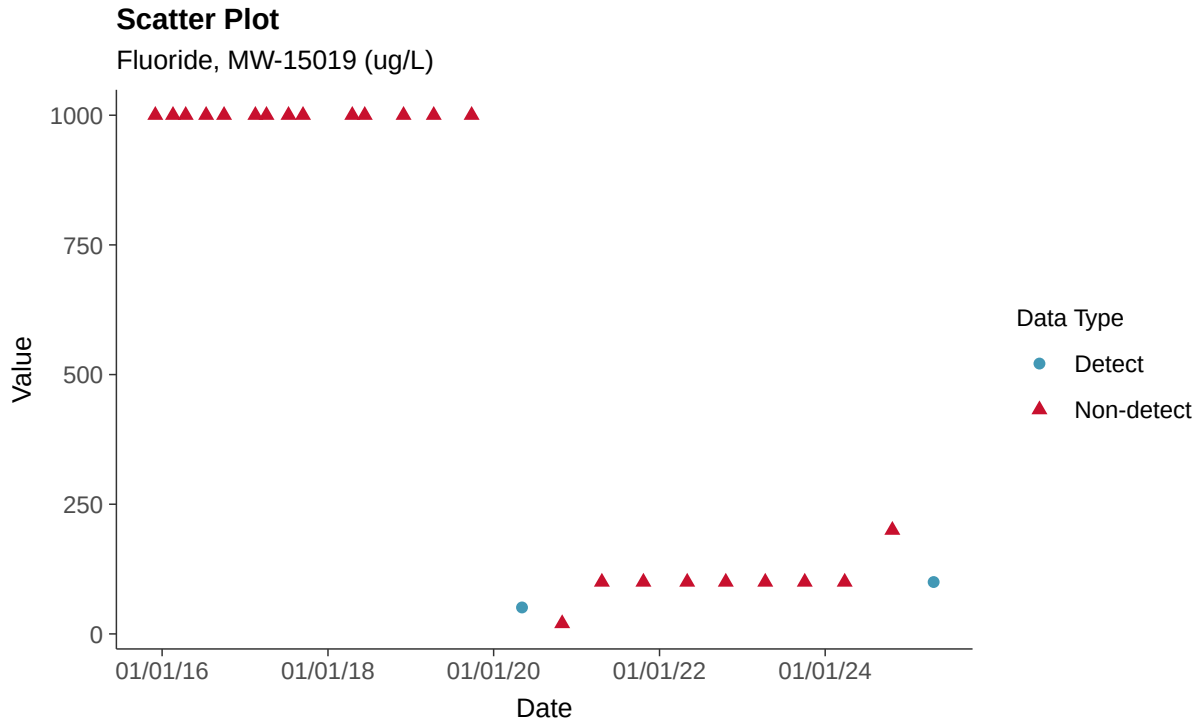
Trend Regression: Piecewise Linear-Linear-Linear

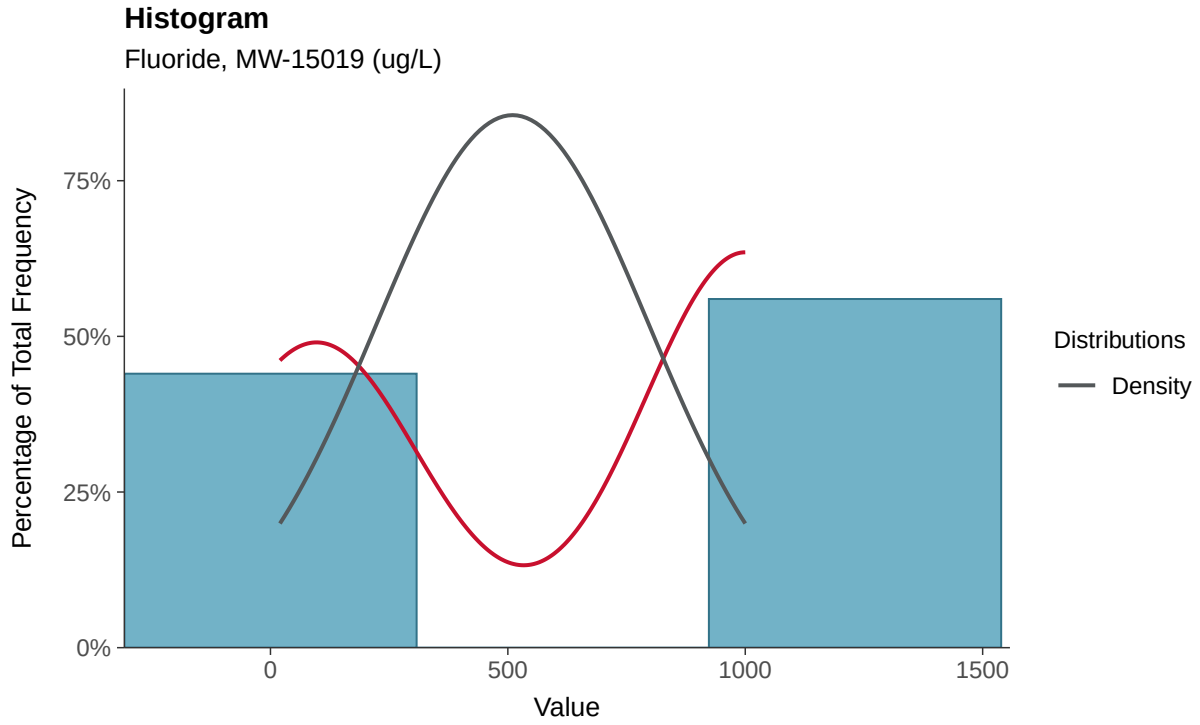
Cobalt, MW-15019 (ug/L)



Appendix IV: Fluoride, MW-15019

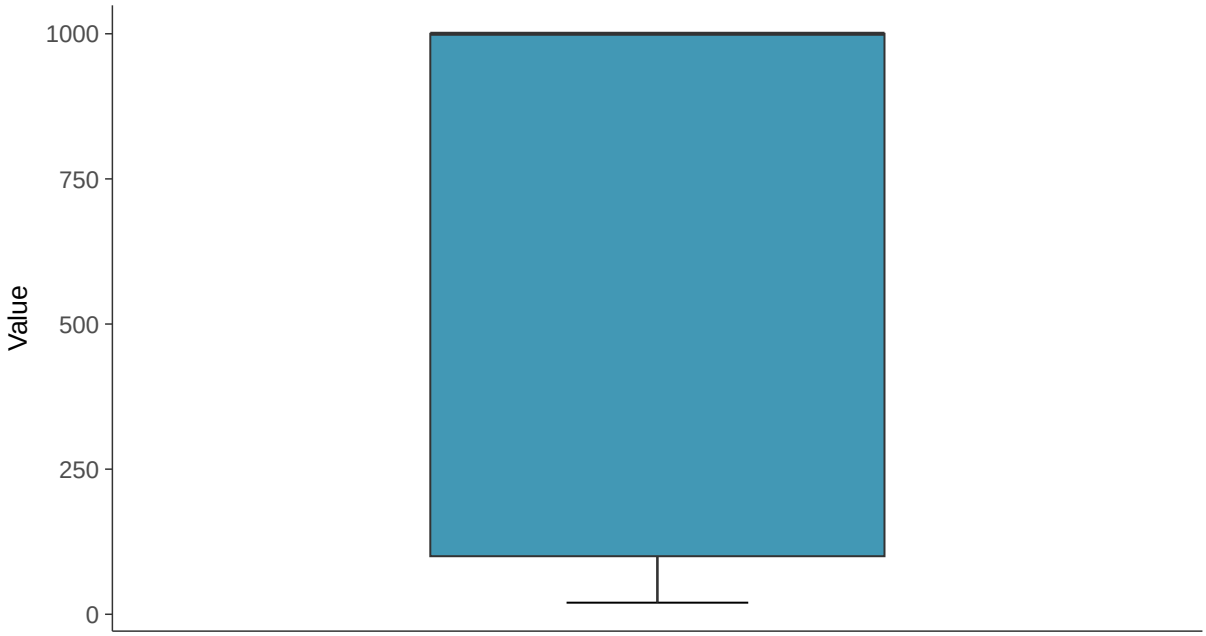
ID: 09_2_114





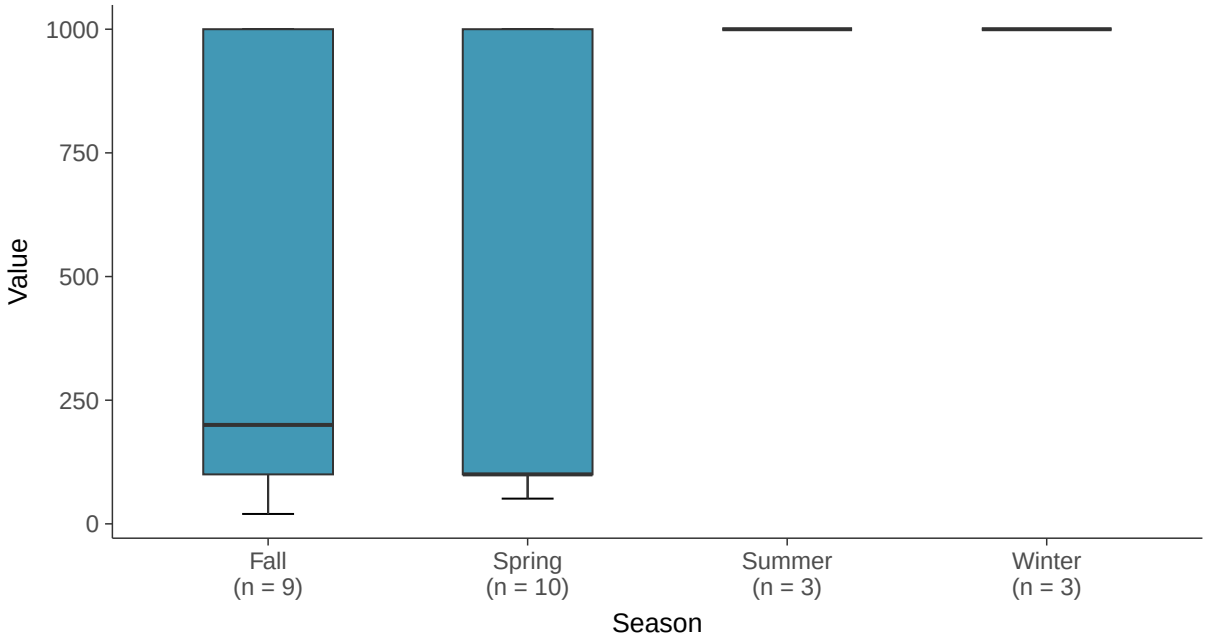
Boxplot

Fluoride, MW-15019 (ug/L)



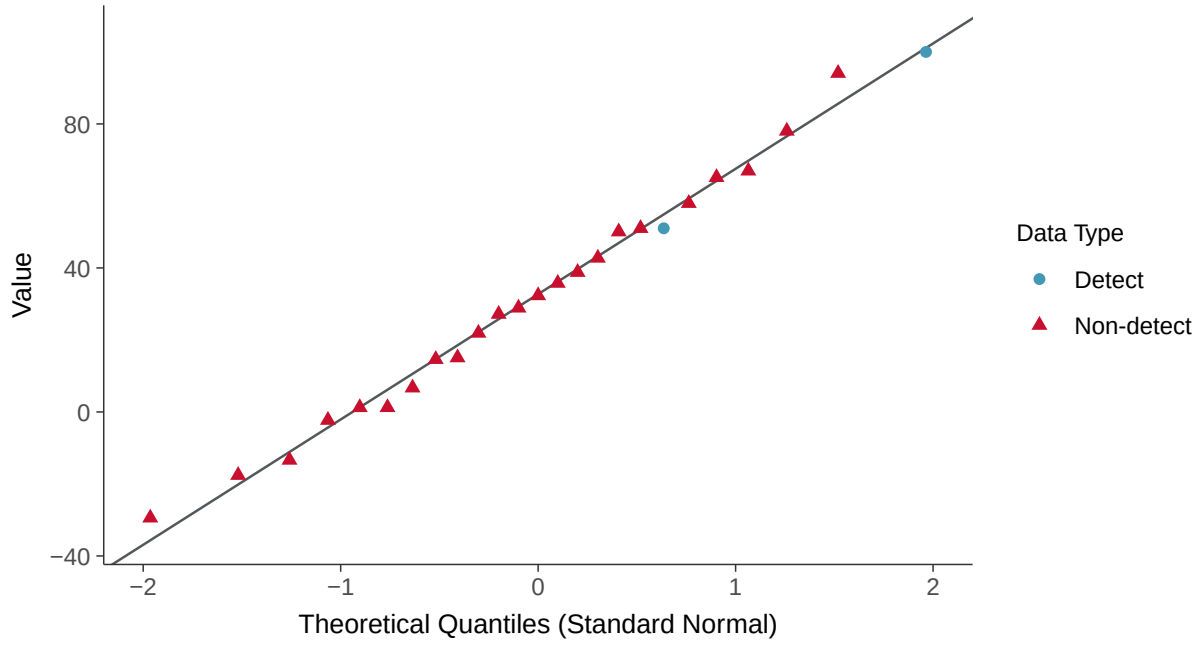
Boxplot by Season

Fluoride, MW-15019 (ug/L)



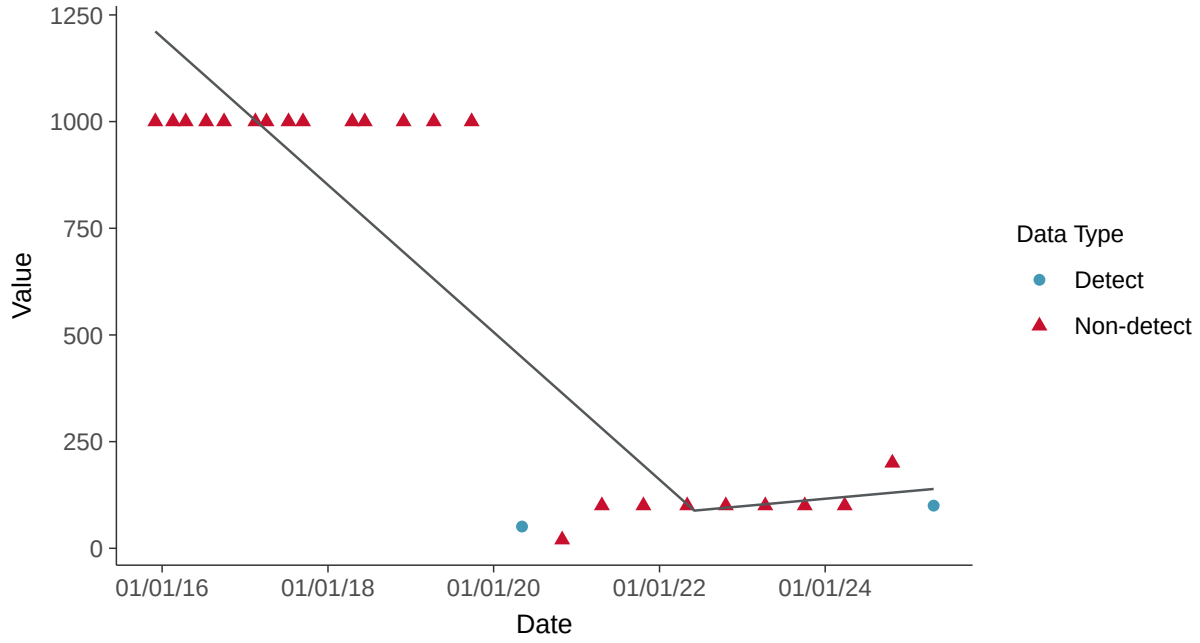
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15019 (ug/L)



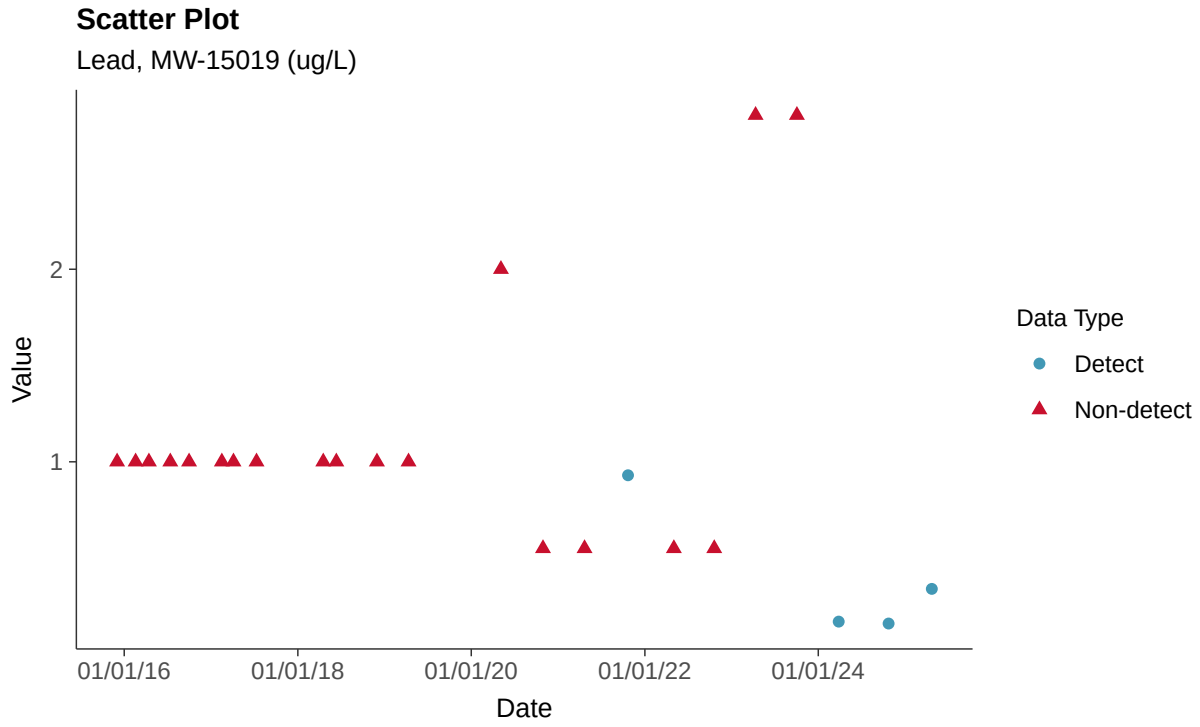
Trend Regression: Piecewise Linear-Linear

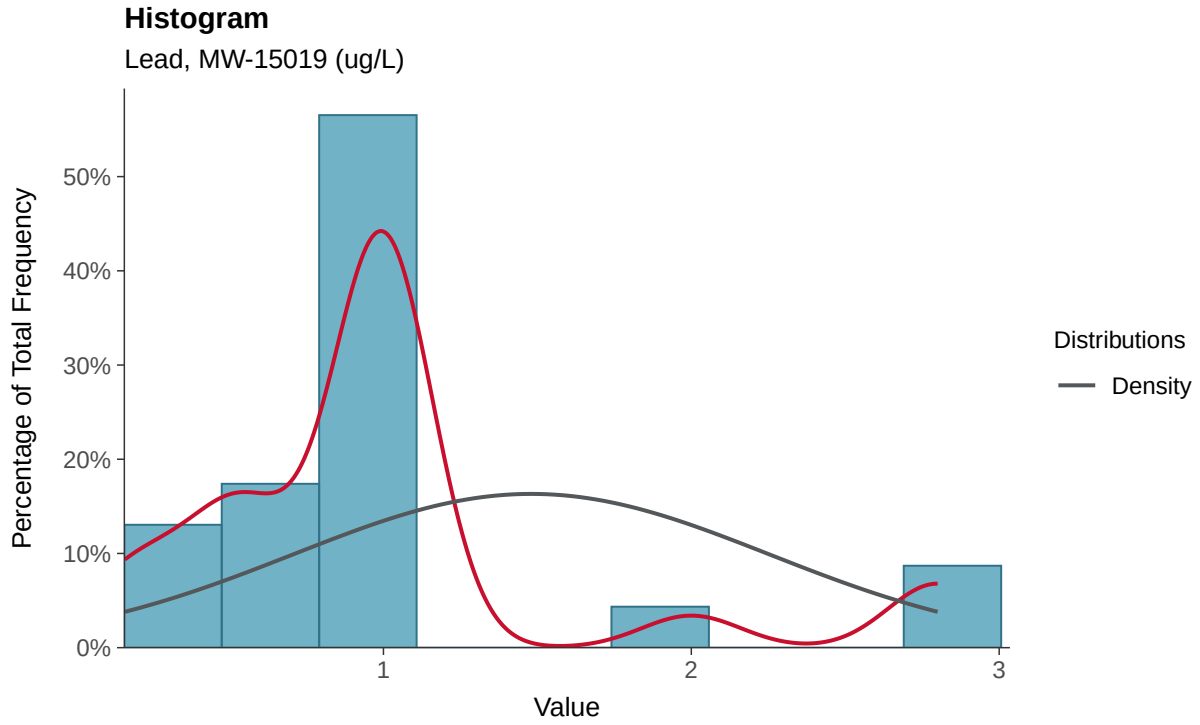
Fluoride, MW-15019 (ug/L)



Appendix IV: Lead, MW-15019

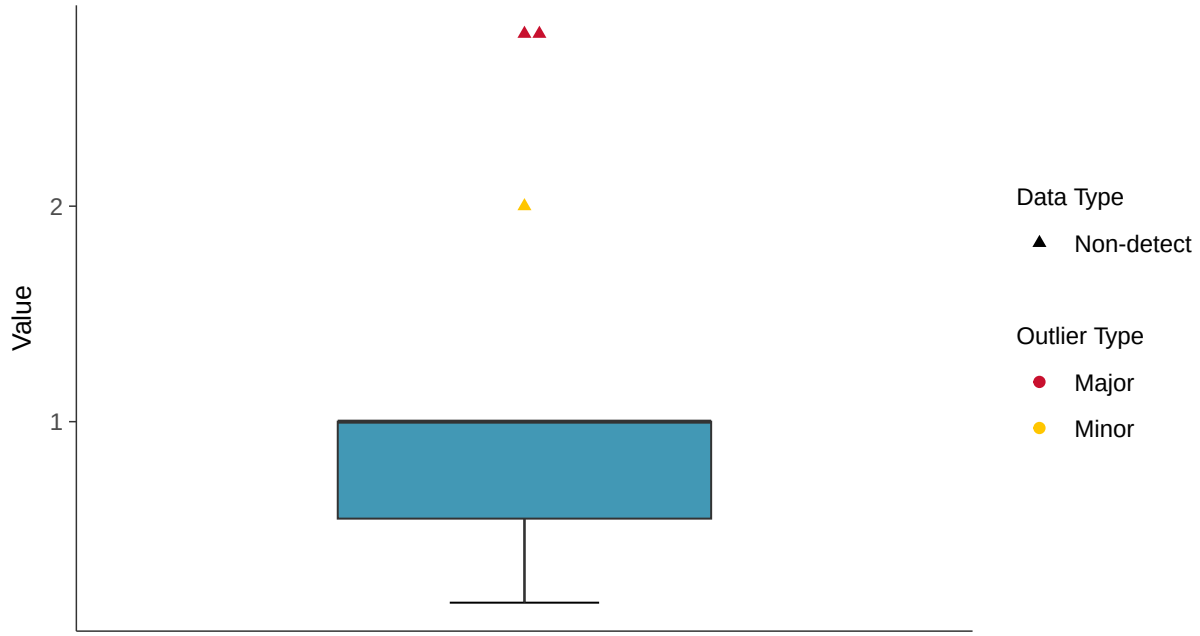
ID: 09_2_116





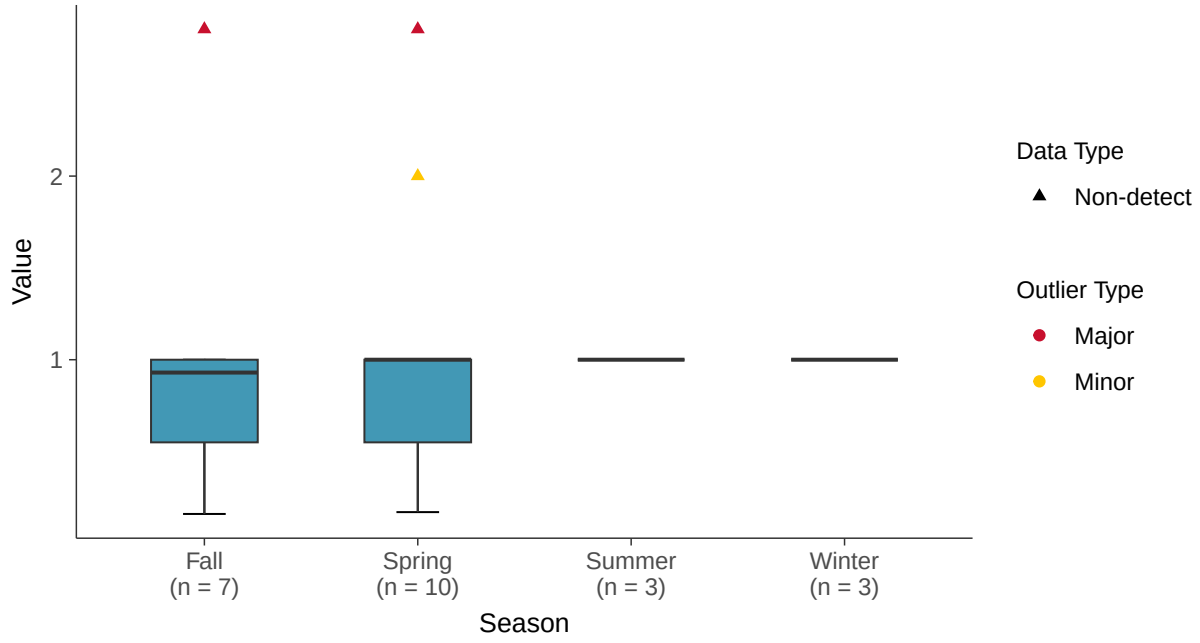
Boxplot

Lead, MW-15019 (ug/L)



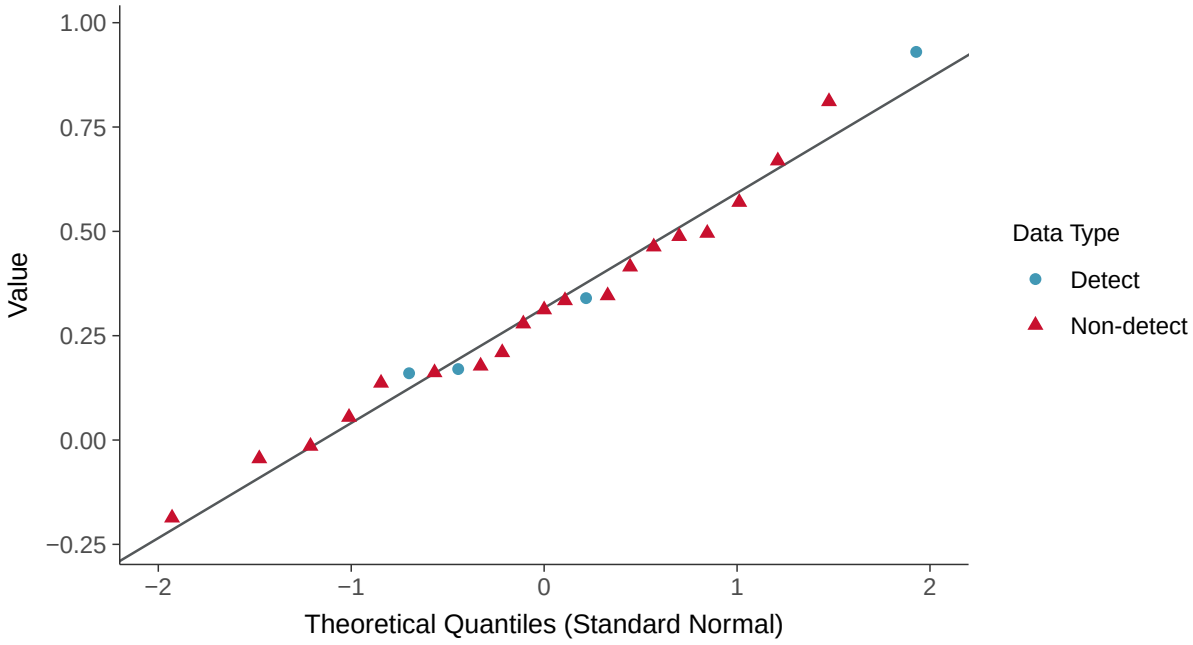
Boxplot by Season

Lead, MW-15019 (ug/L)



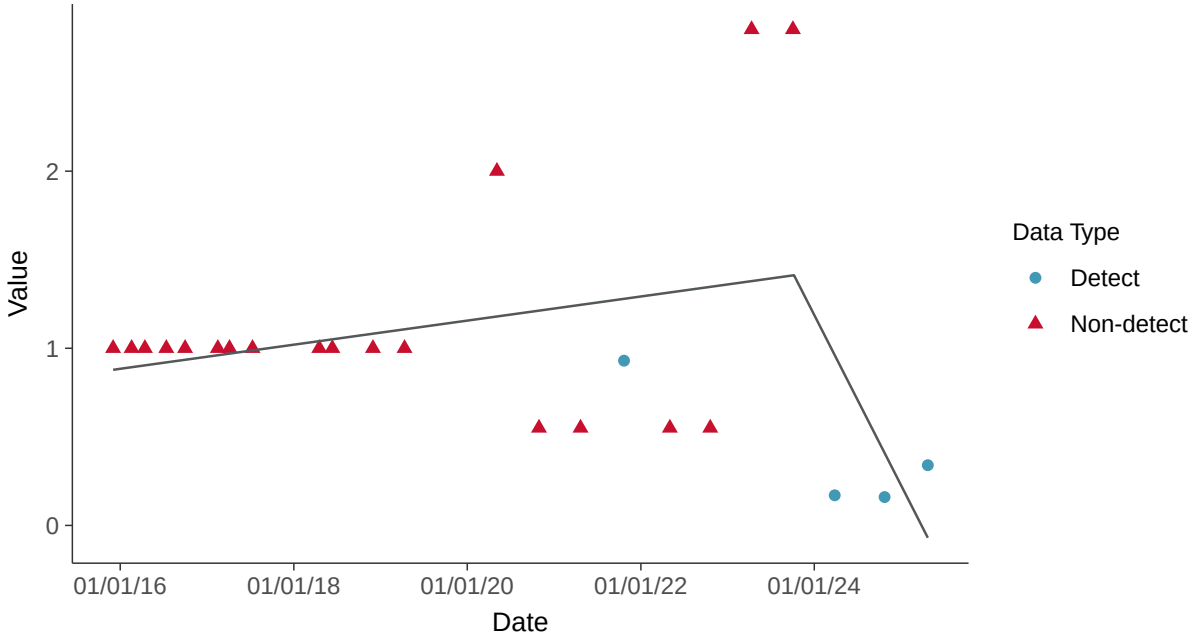
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-15019 (ug/L)



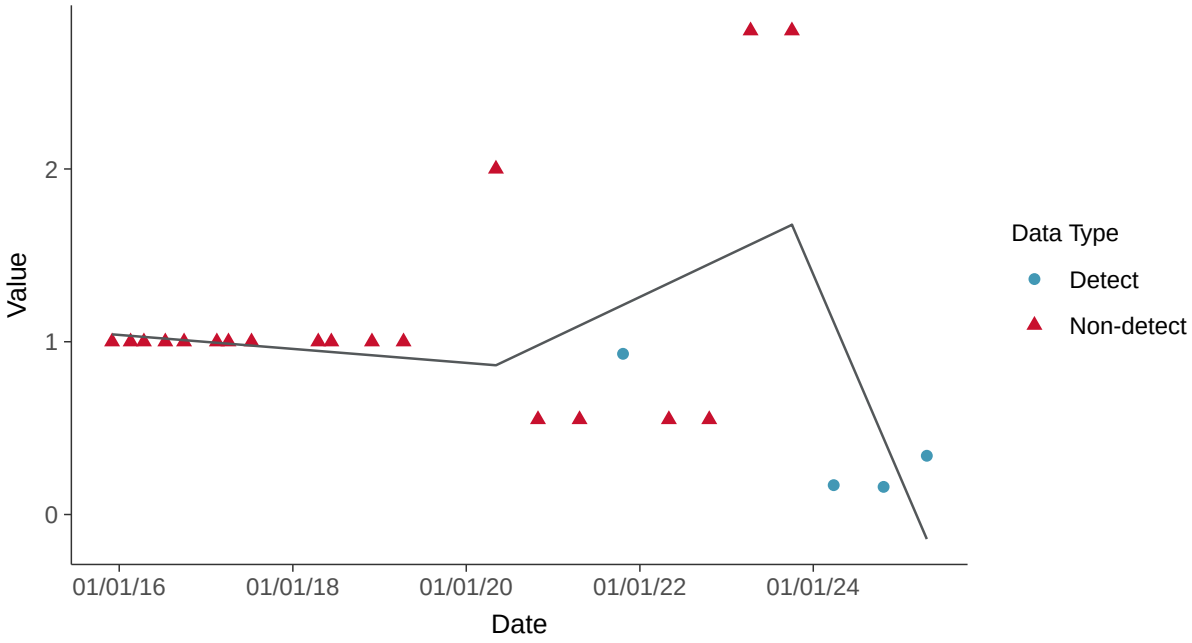
Trend Regression: Piecewise Linear-Linear

Lead, MW-15019 (ug/L)



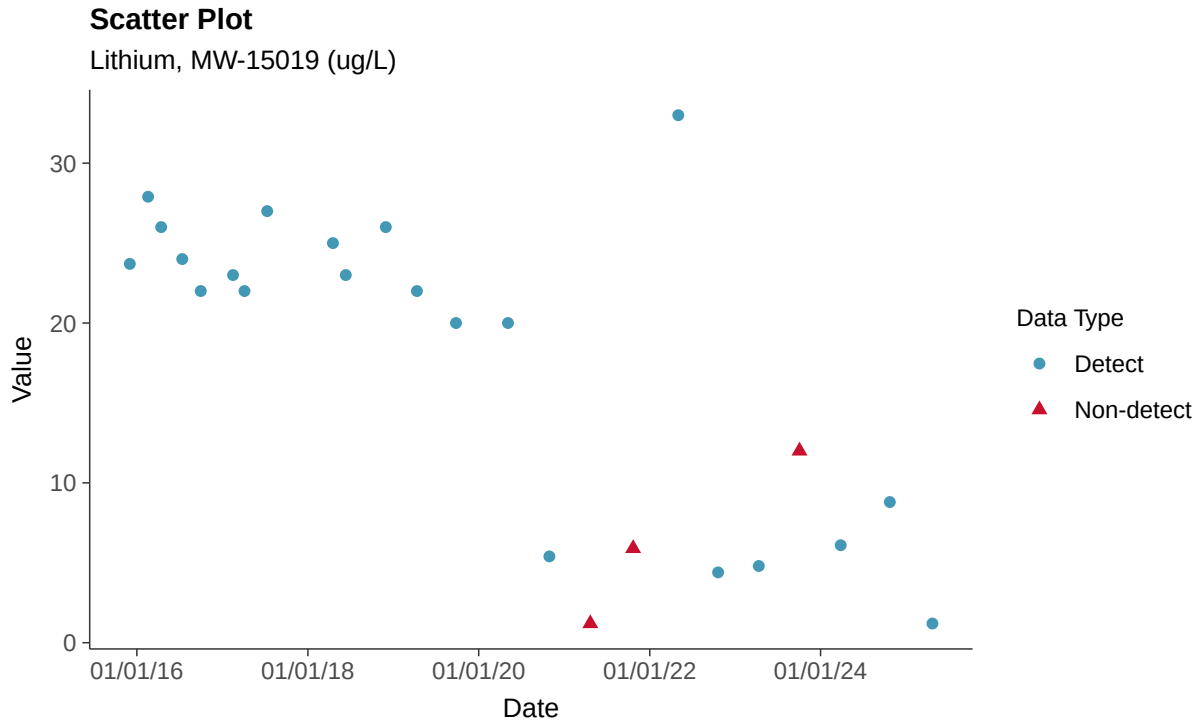
Trend Regression: Piecewise Linear-Linear-Linear

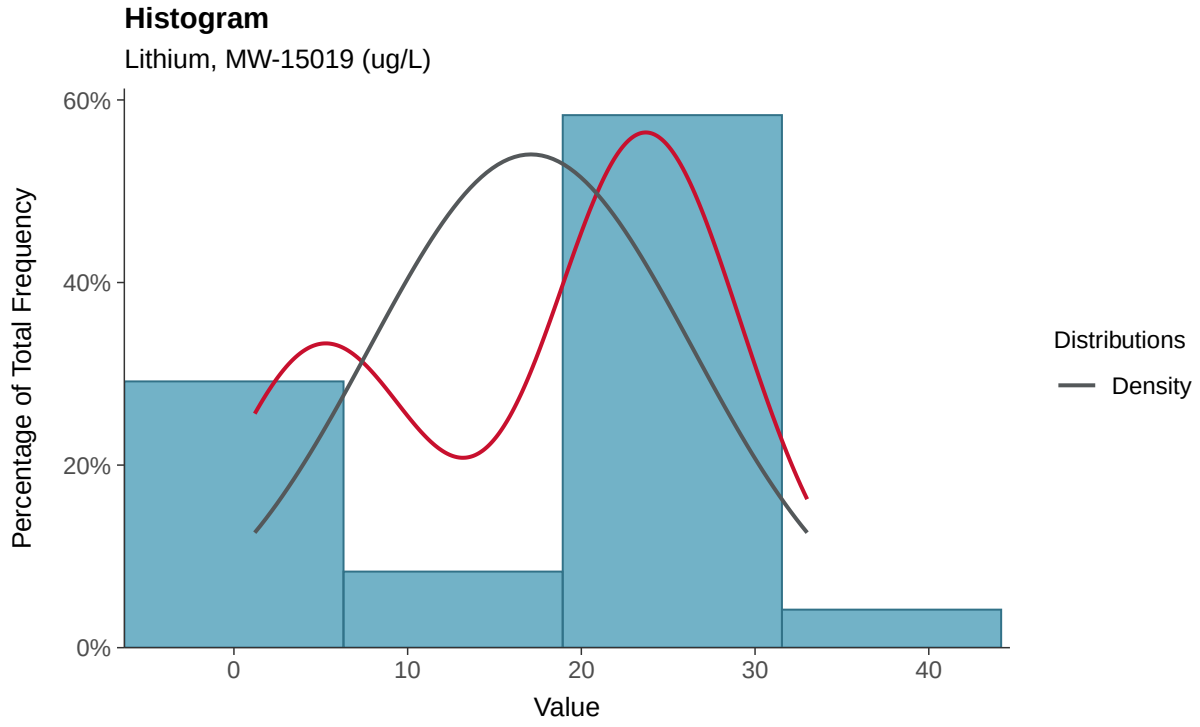
Lead, MW-15019 (ug/L)



Appendix IV: Lithium, MW-15019

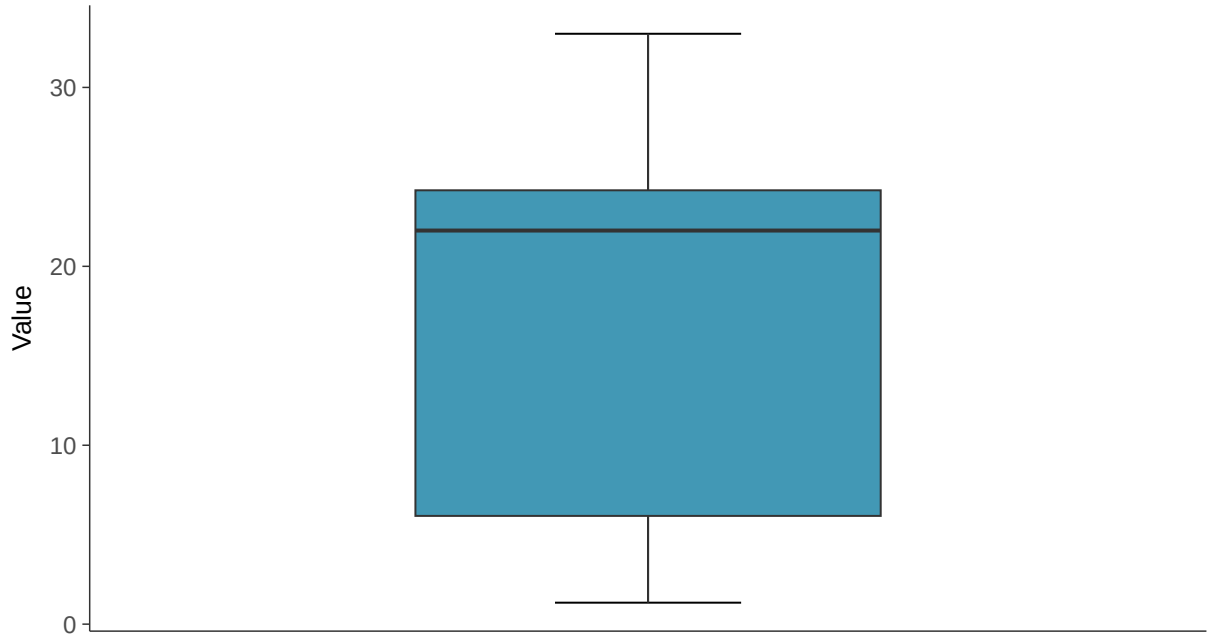
ID: 09_2_117





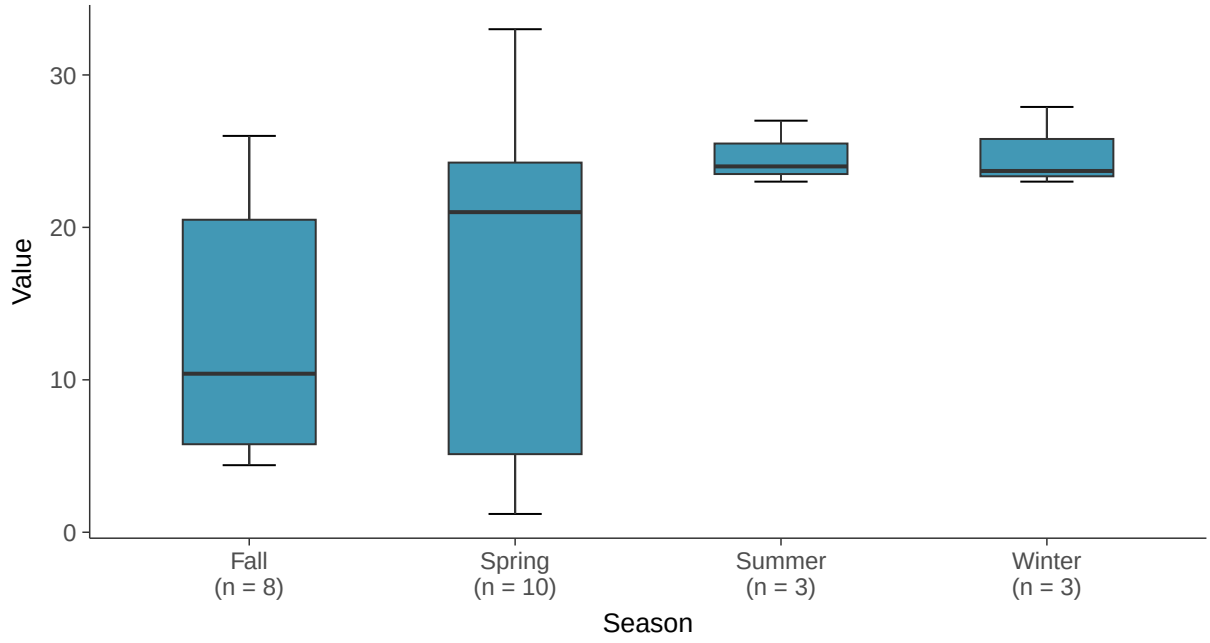
Boxplot

Lithium, MW-15019 (ug/L)



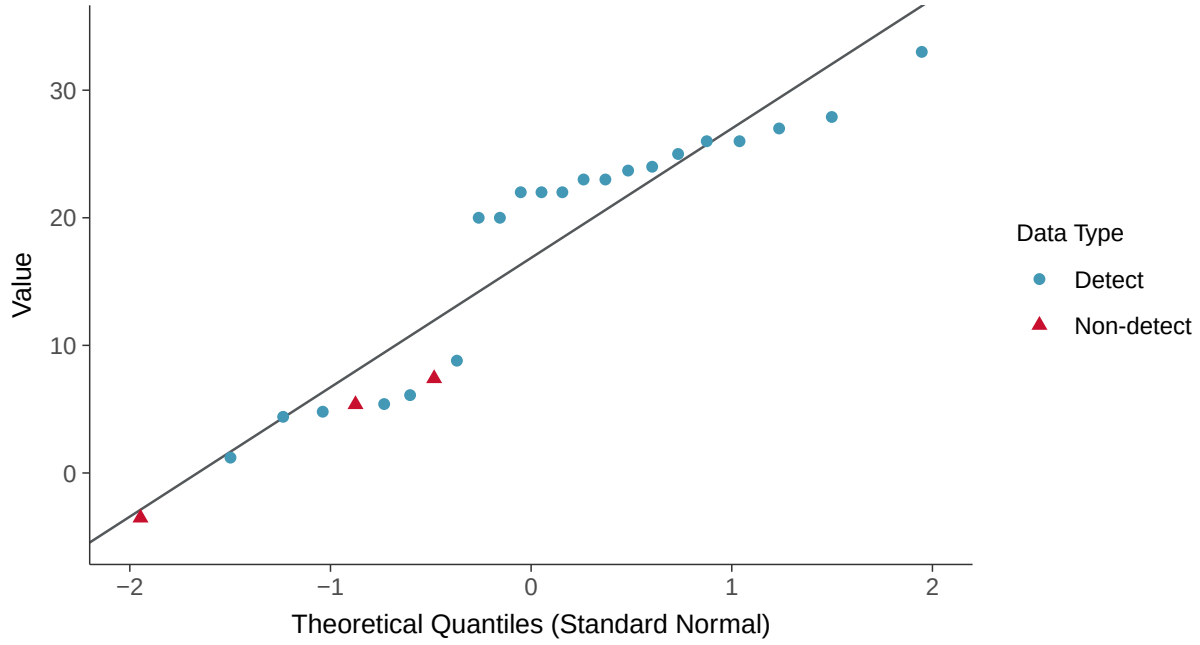
Boxplot by Season

Lithium, MW-15019 (ug/L)



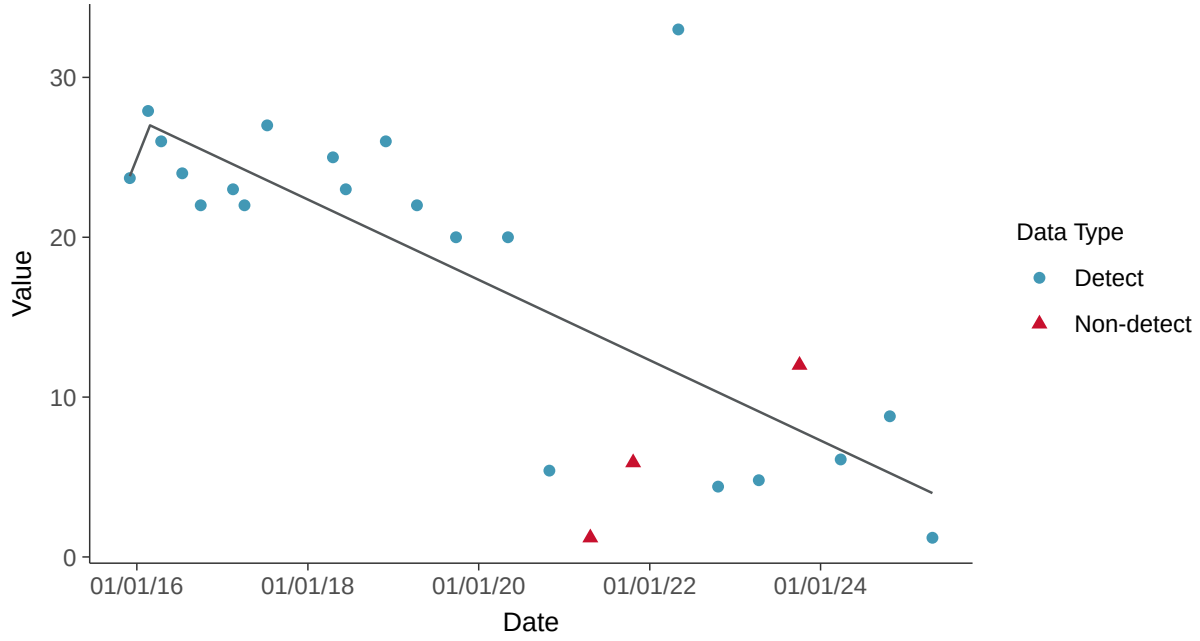
Normal Q-Q plot using ROS Imputed Estimates

Lithium, MW-15019 (ug/L)



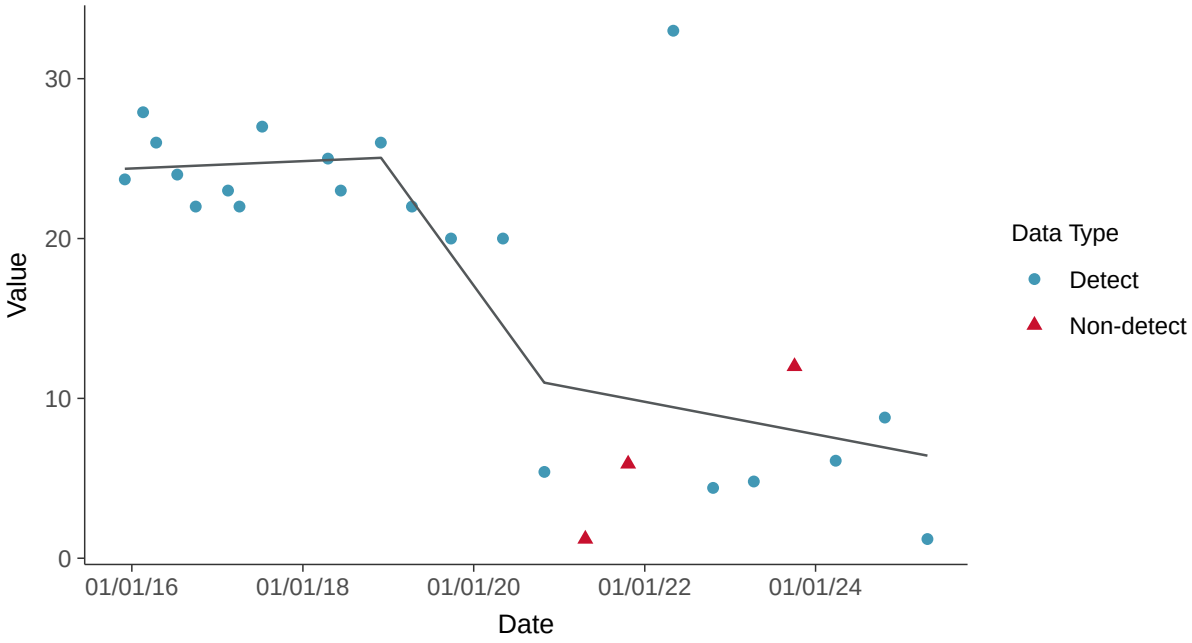
Trend Regression: Piecewise Linear-Linear

Lithium, MW-15019 (ug/L)



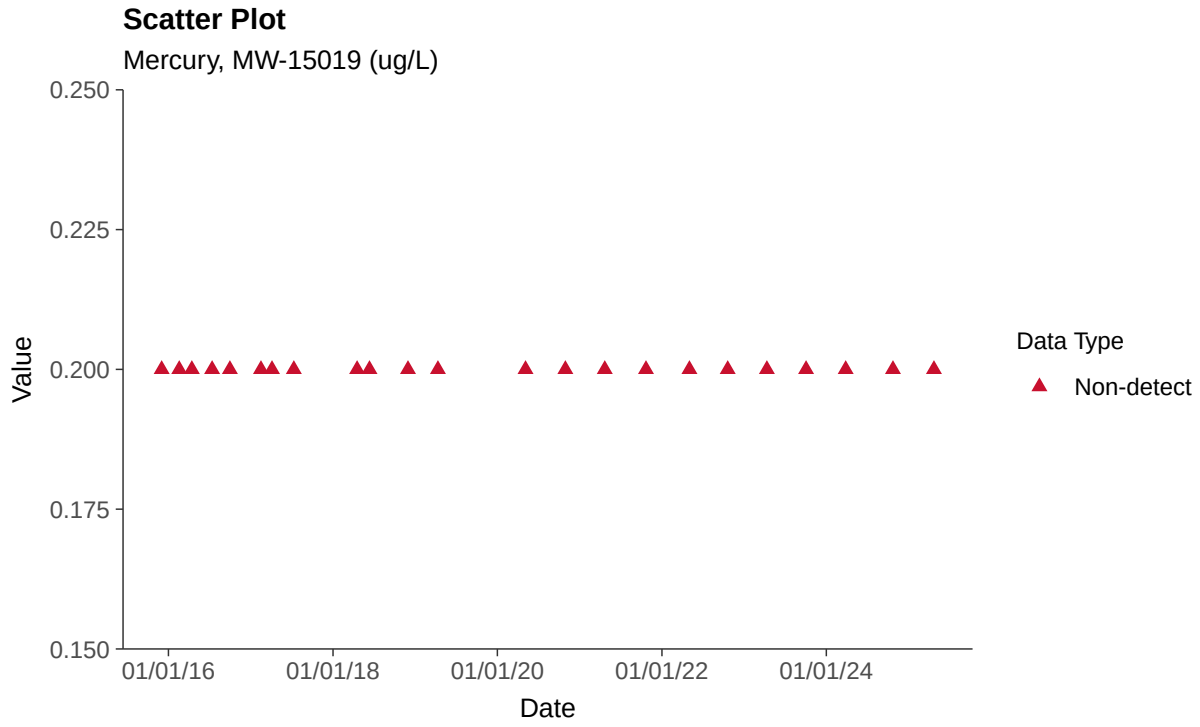
Trend Regression: Piecewise Linear-Linear-Linear

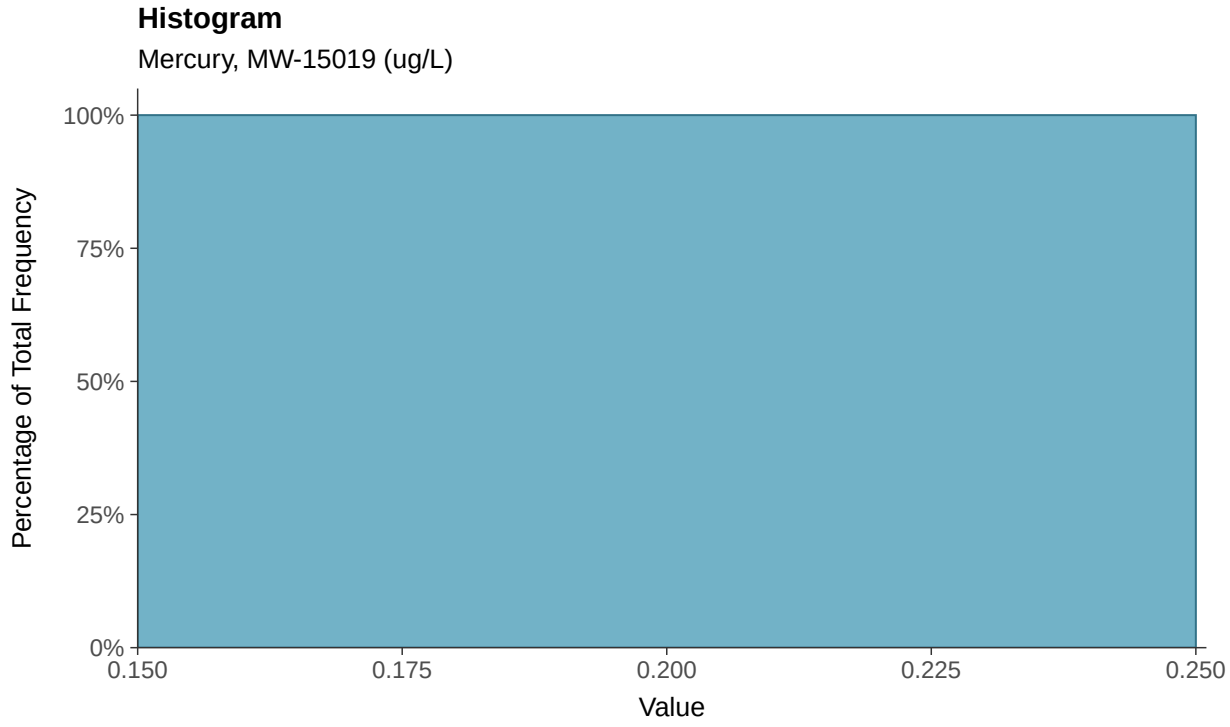
Lithium, MW-15019 (ug/L)



Appendix IV: Mercury, MW-15019

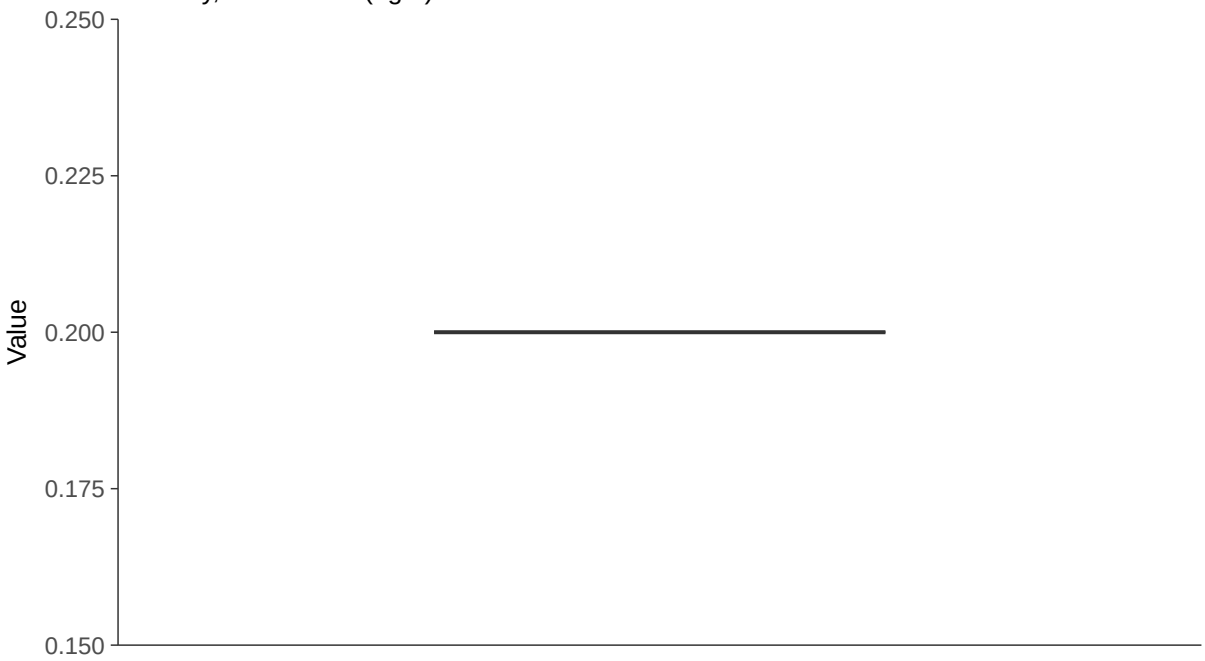
ID: 09_2_118





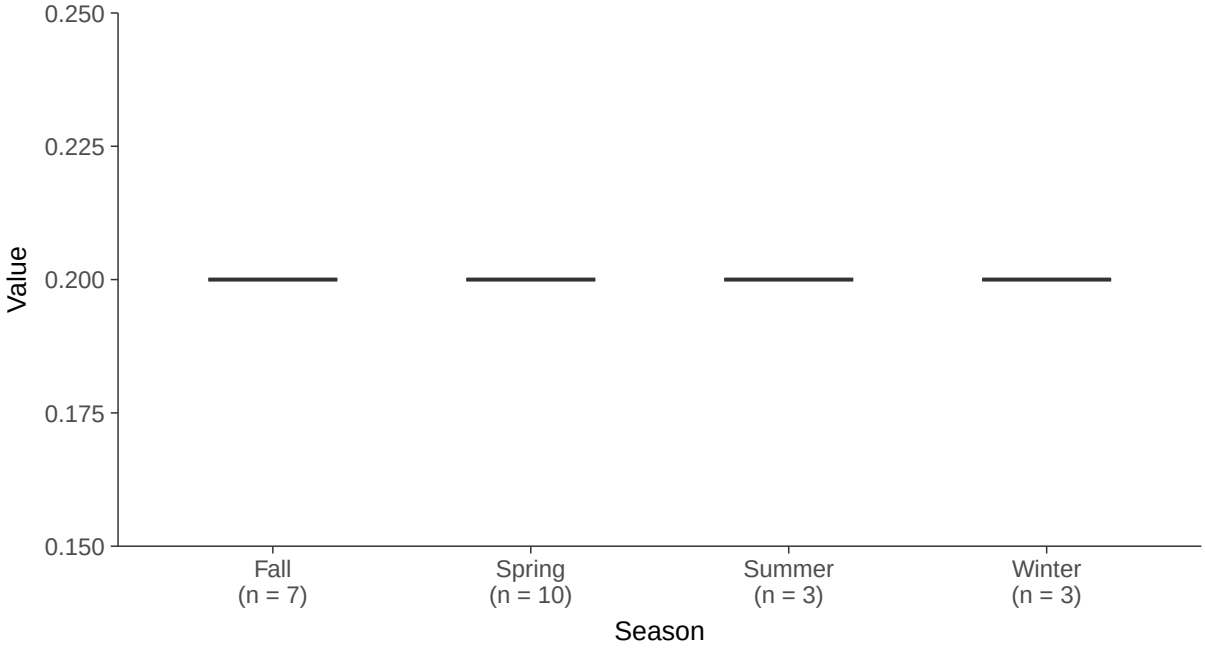
Boxplot

Mercury, MW-15019 (ug/L)



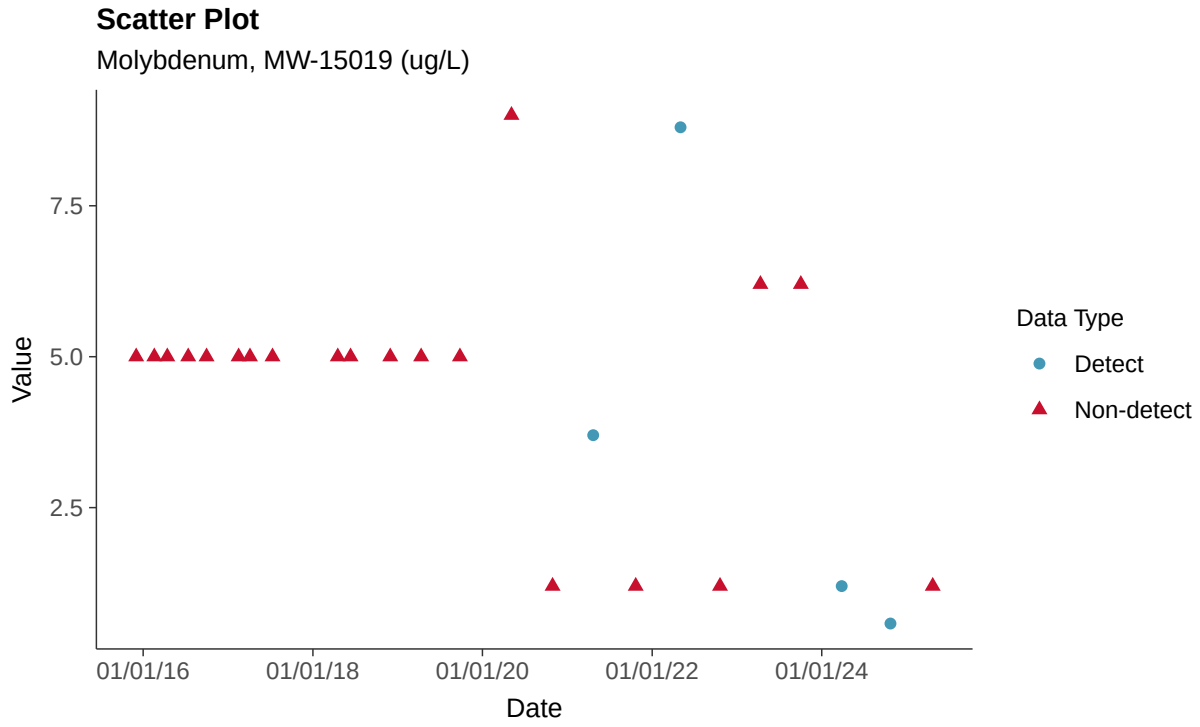
Boxplot by Season

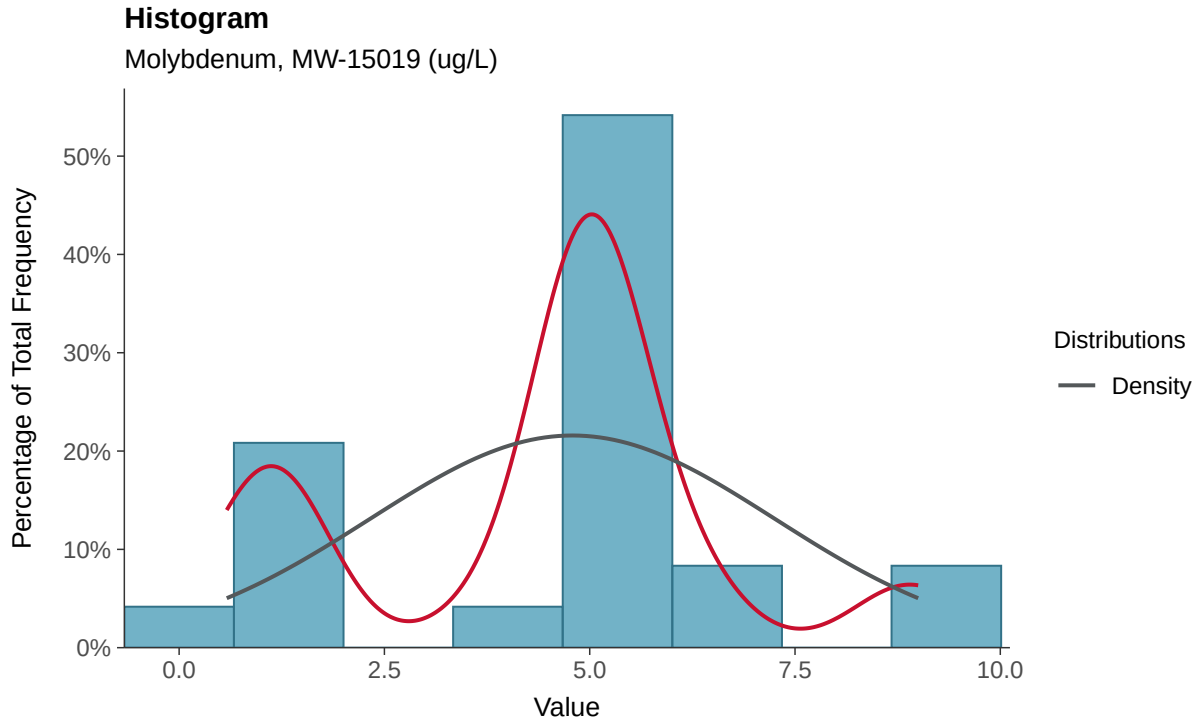
Mercury, MW-15019 (ug/L)



Appendix IV: Molybdenum, MW-15019

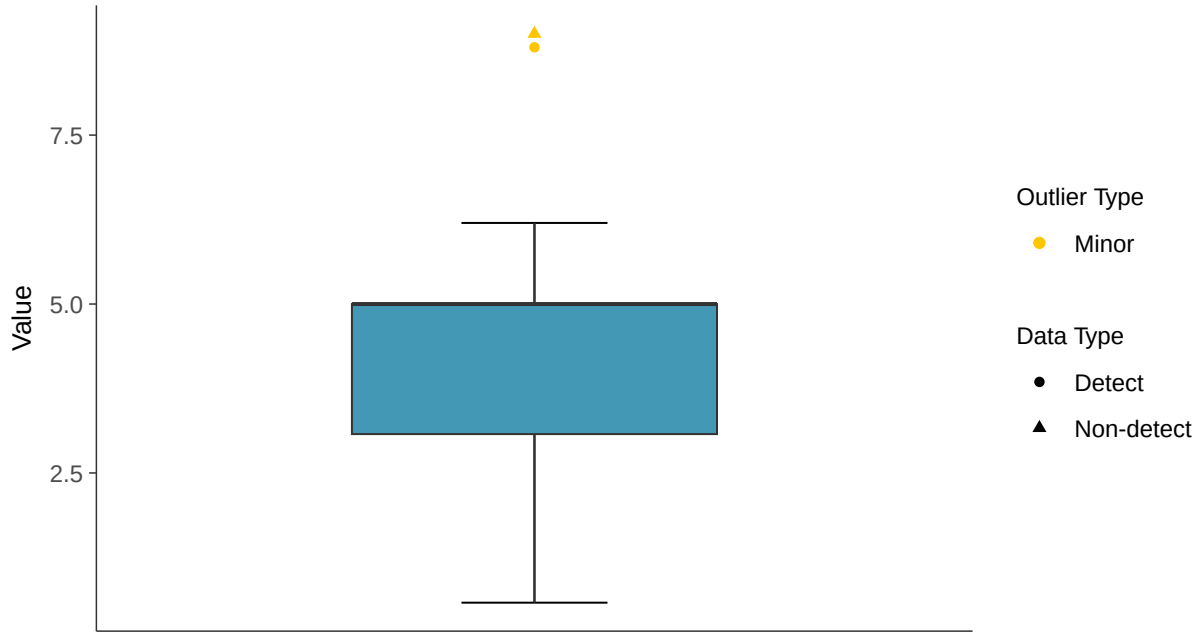
ID: 09_2_119





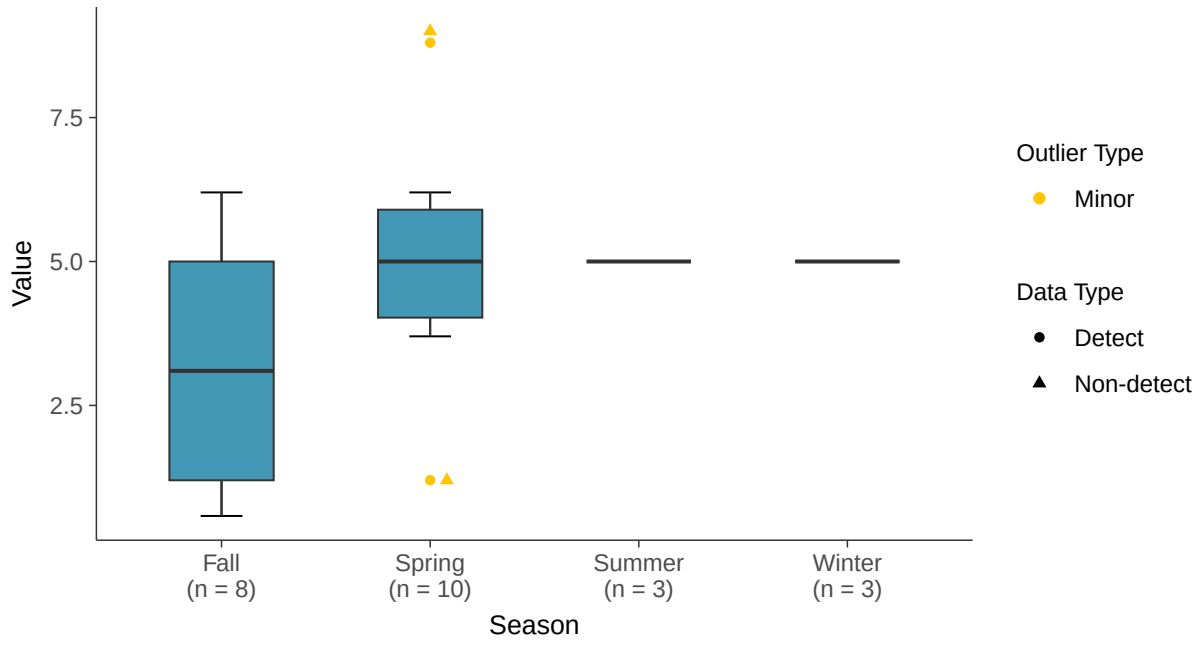
Boxplot

Molybdenum, MW-15019 (ug/L)



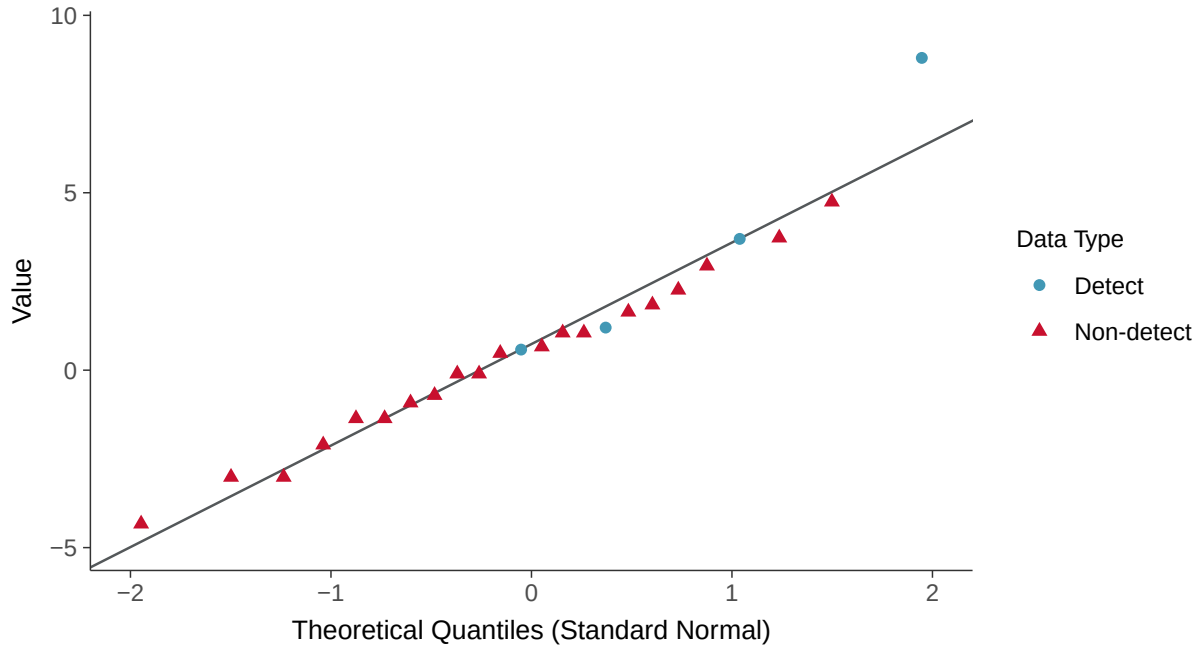
Boxplot by Season

Molybdenum, MW-15019 (ug/L)



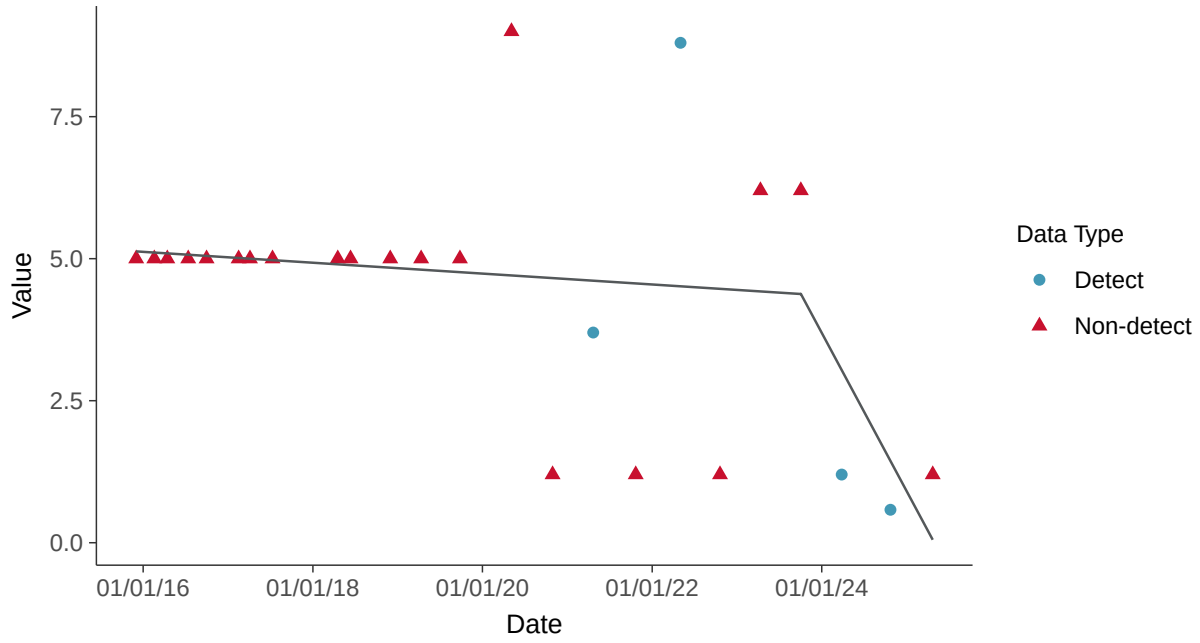
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15019 (ug/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-15019 (ug/L)

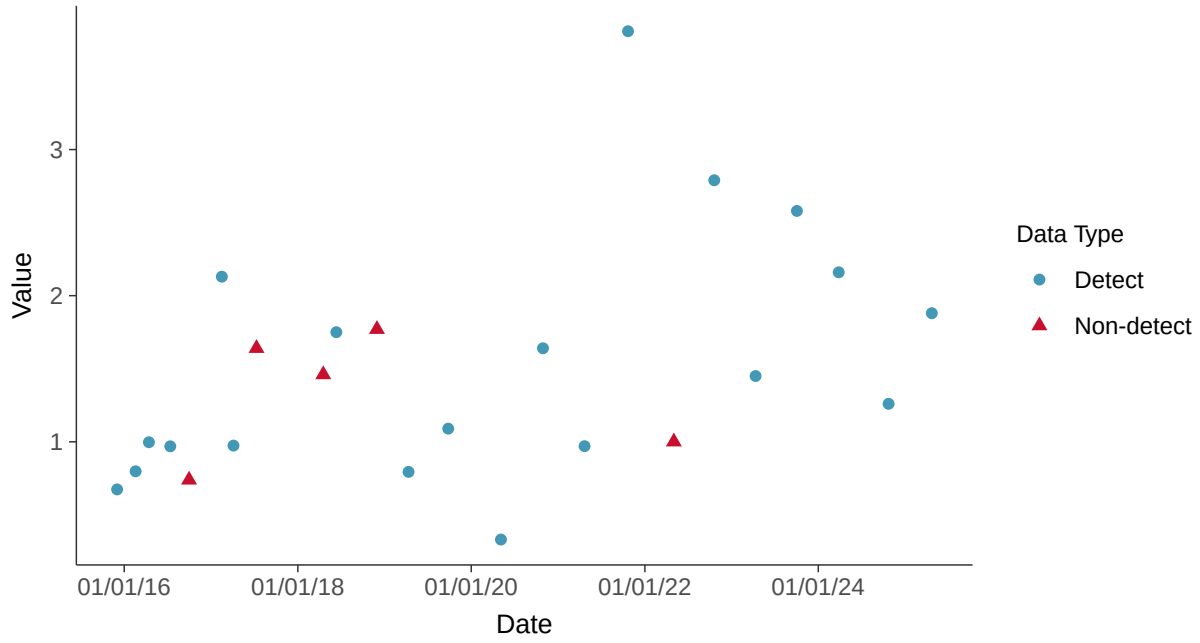


Appendix IV: Radium-226+228, MW-15019

ID: 09_2_125

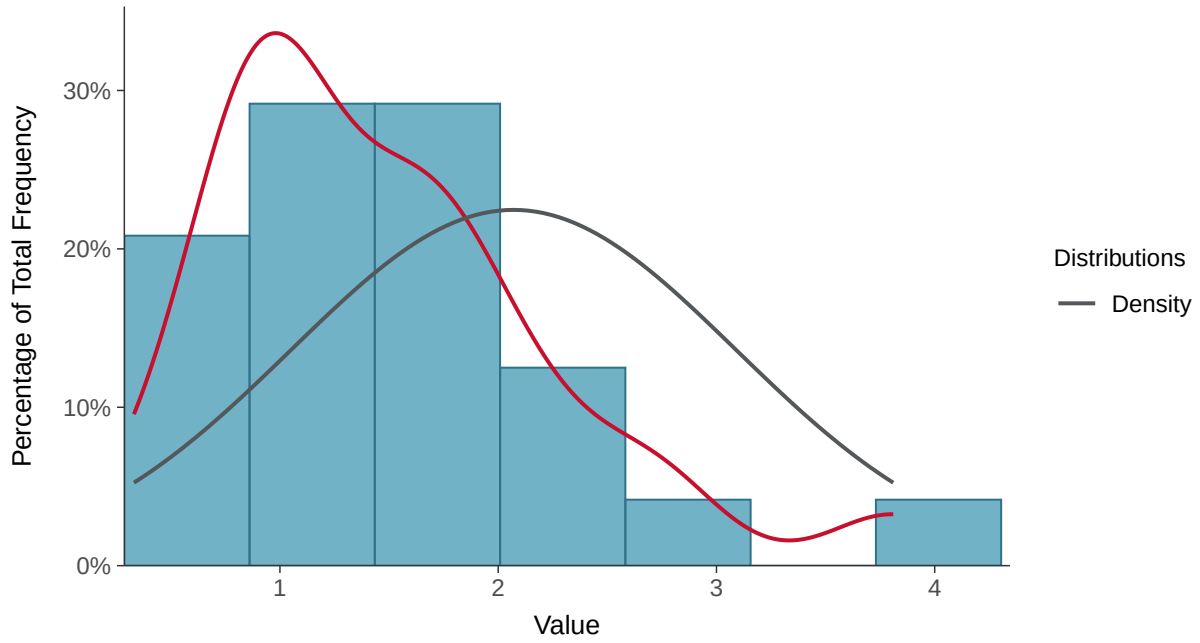
Scatter Plot

Radium-226+228, MW-15019 (pCi/L)



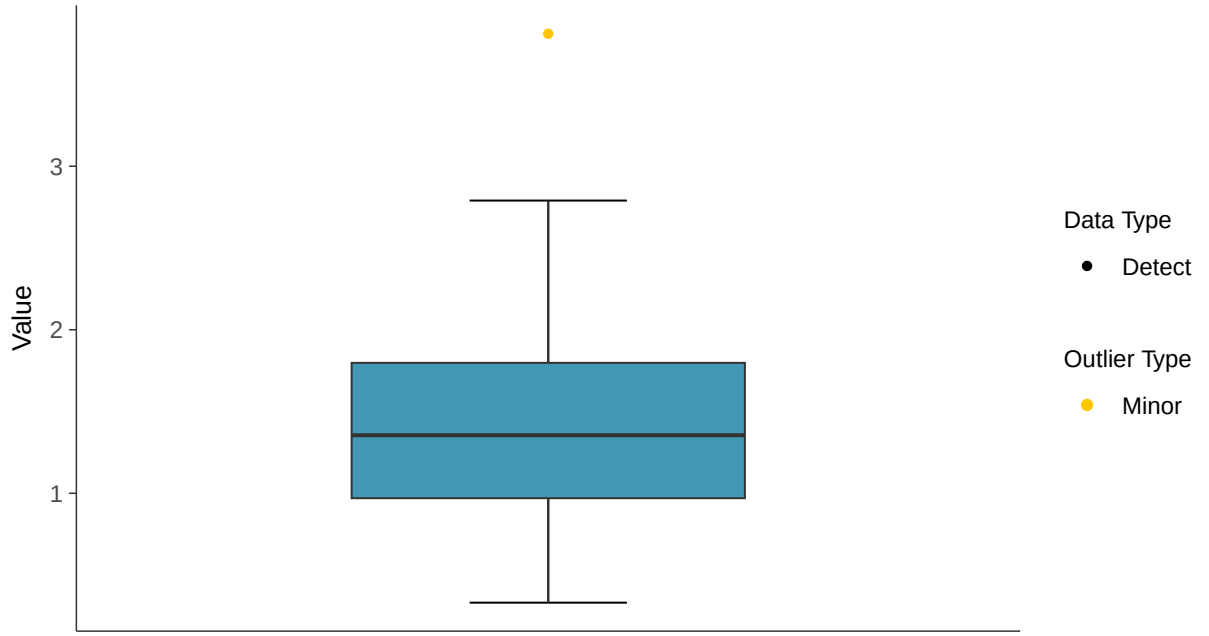
Histogram

Radium-226+228, MW-15019 (pCi/L)



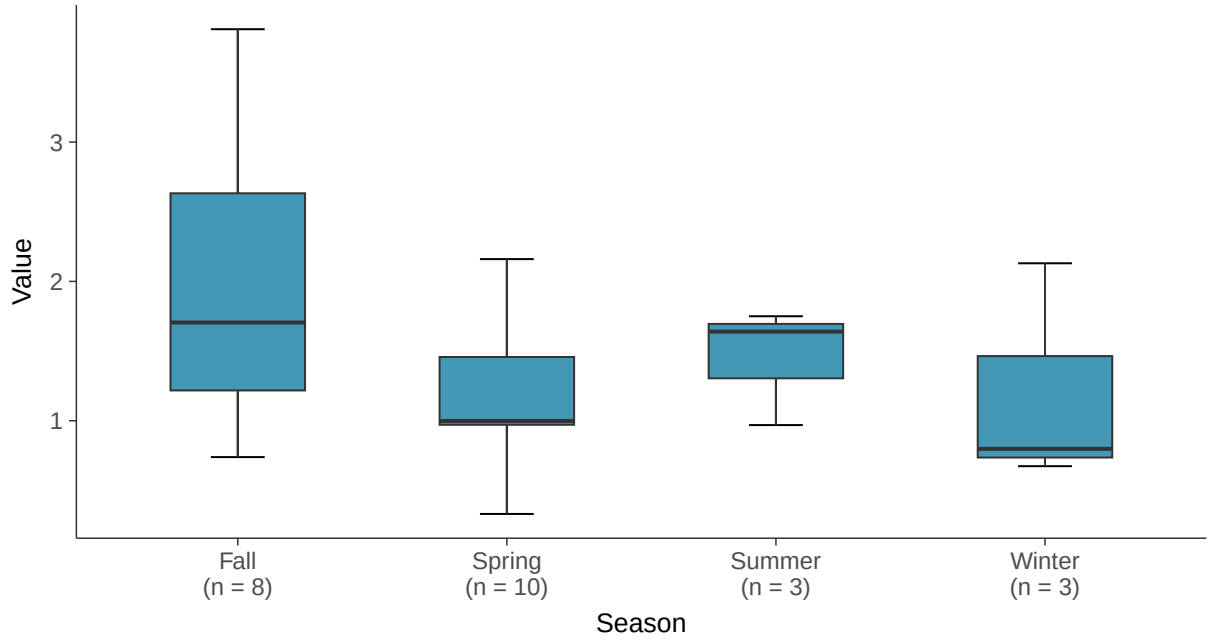
Boxplot

Radium-226+228, MW-15019 (pCi/L)



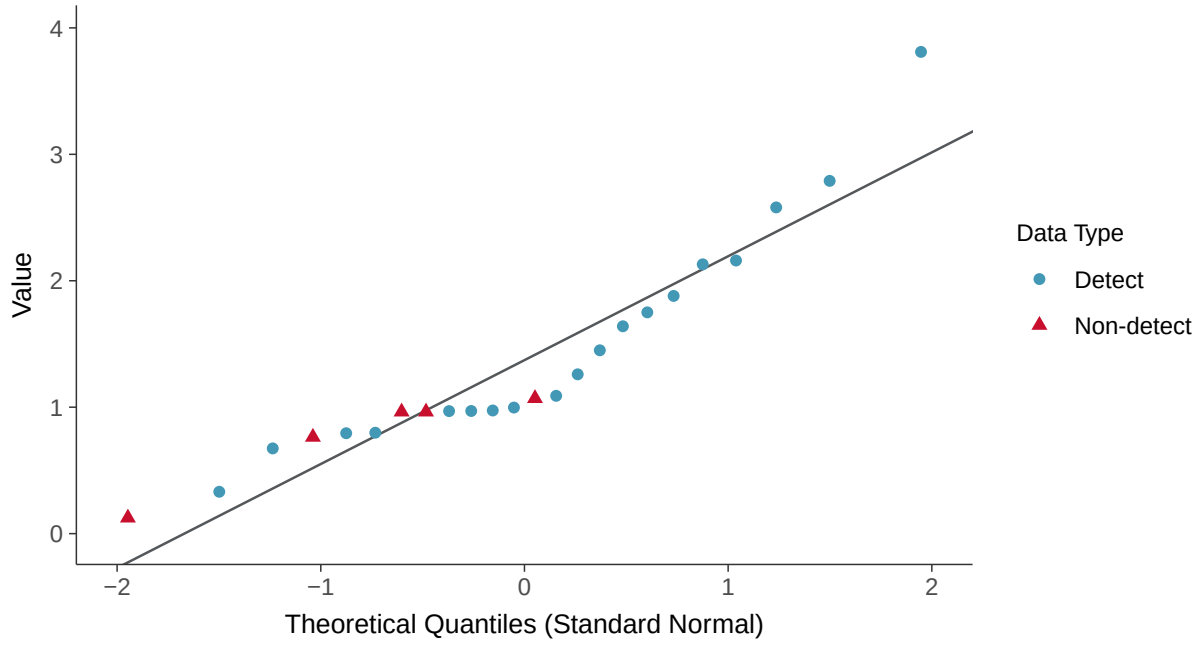
Boxplot by Season

Radium-226+228, MW-15019 (pCi/L)



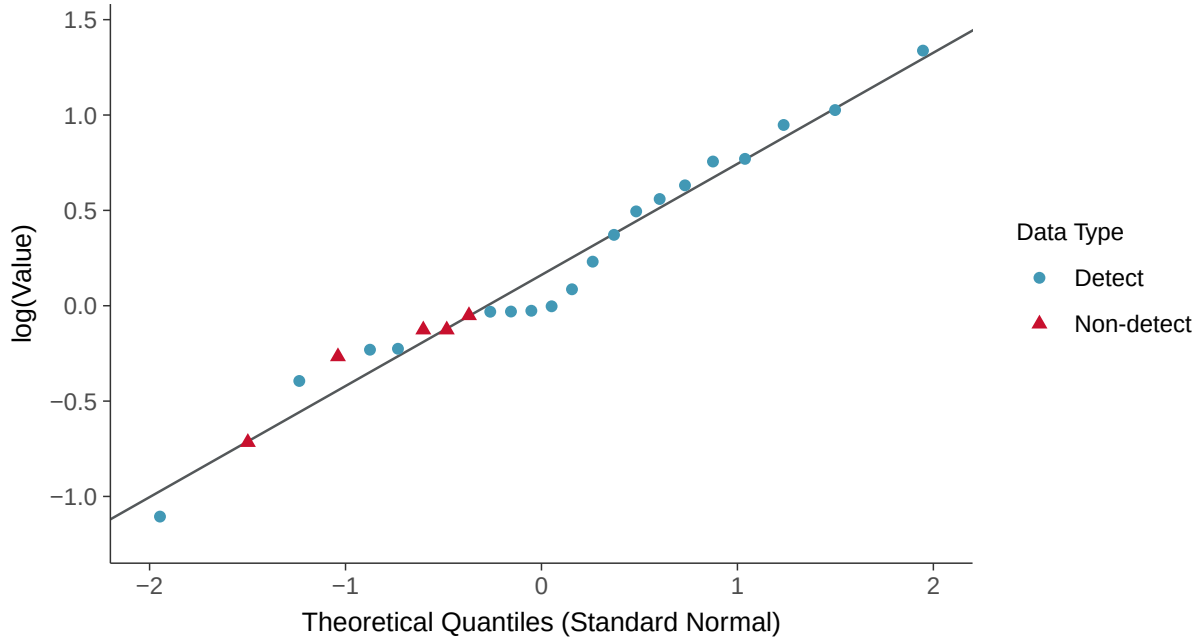
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15019 (pCi/L)



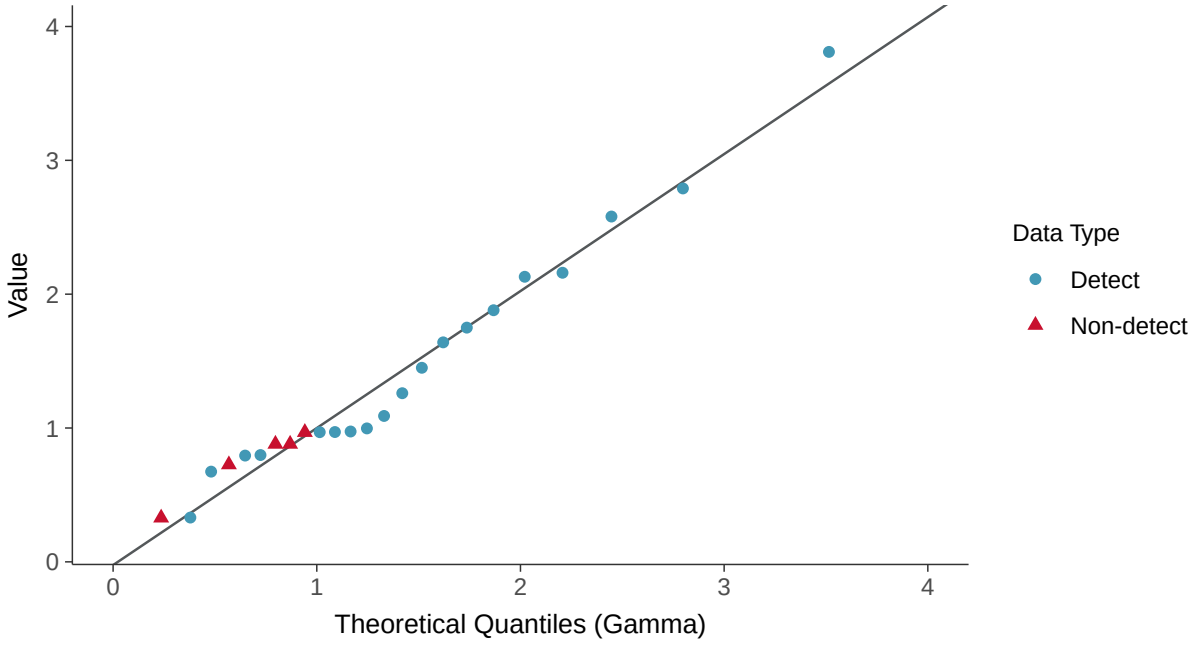
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15019 (pCi/L)



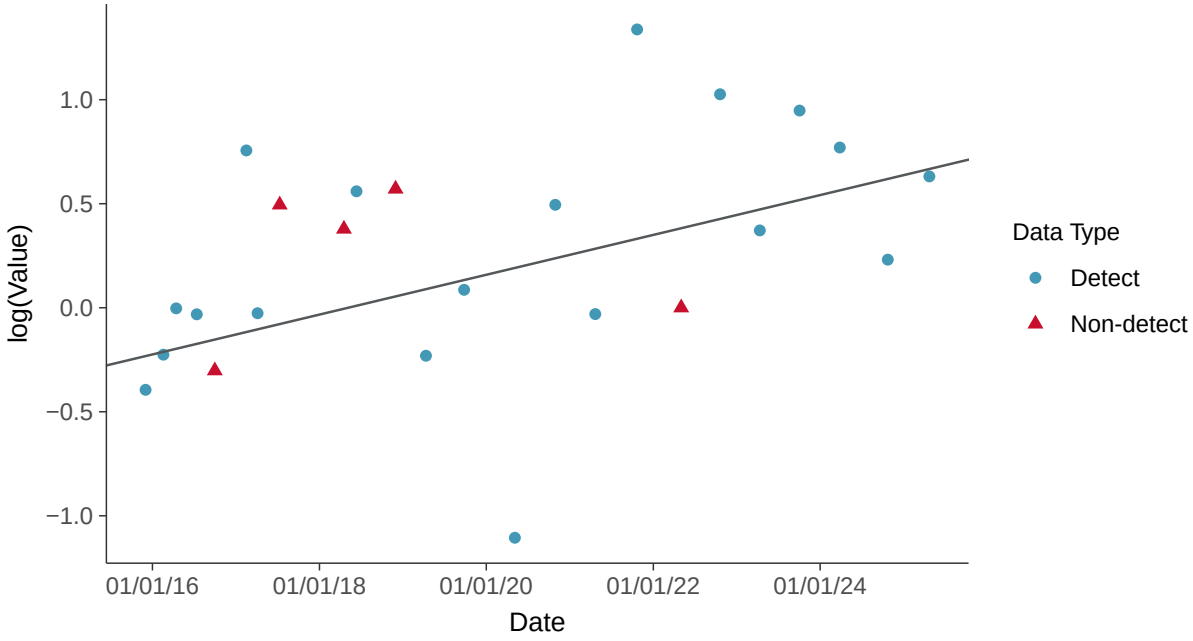
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15019 (pCi/L)



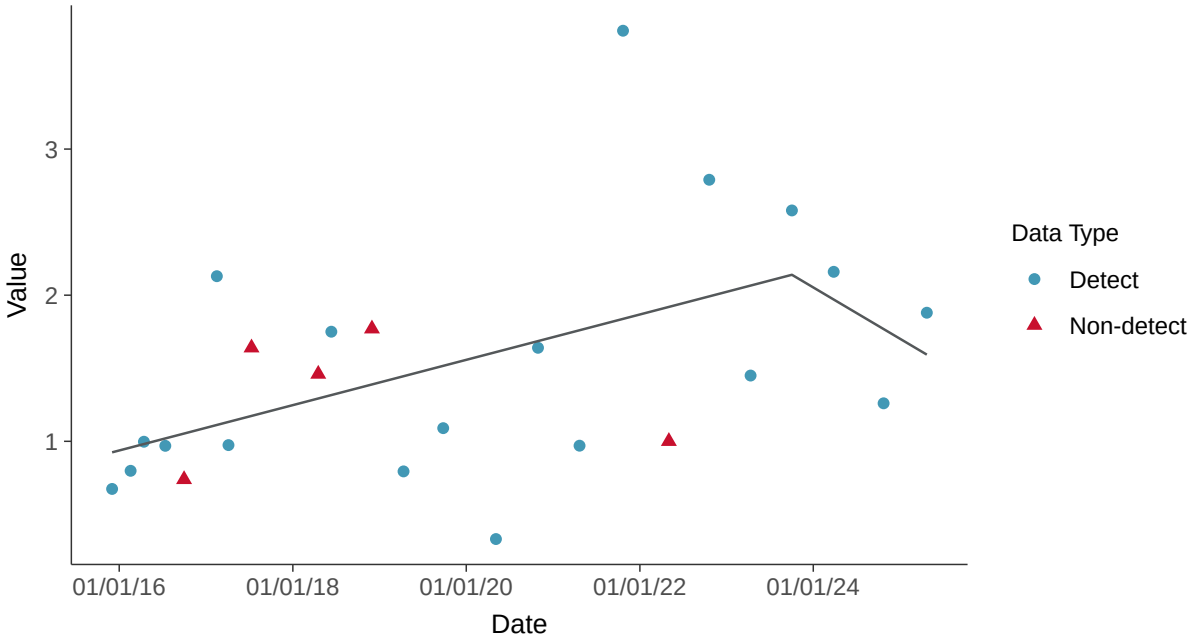
Trend Regression: Lognormal MLE

Radium-226+228, MW-15019 (pCi/L)



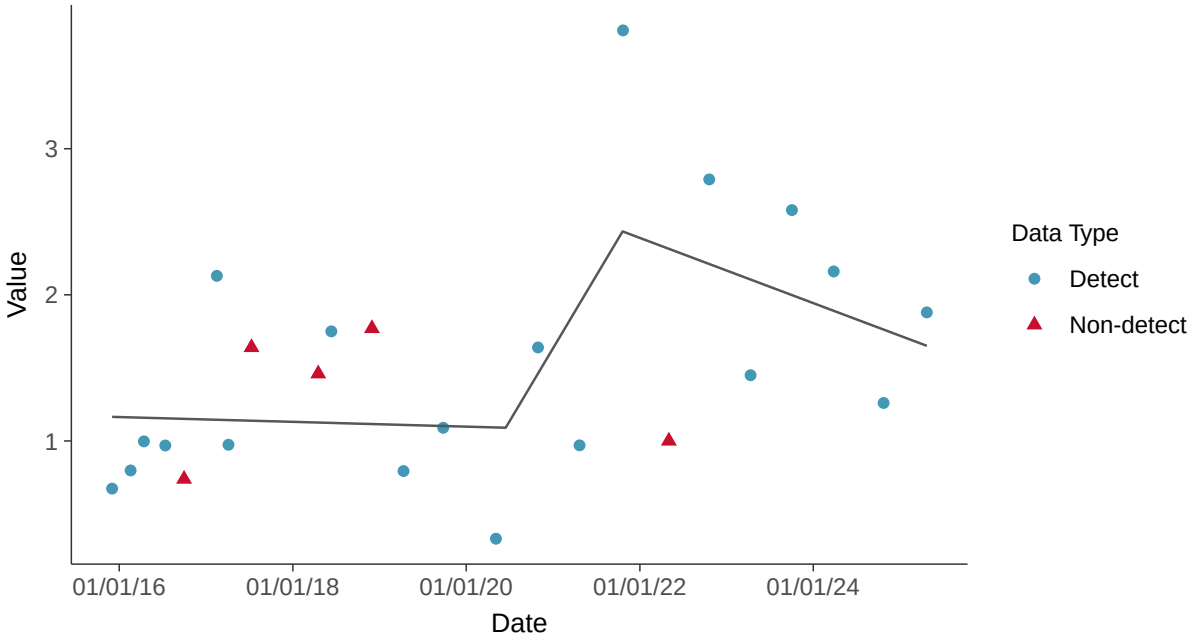
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-15019 (pCi/L)



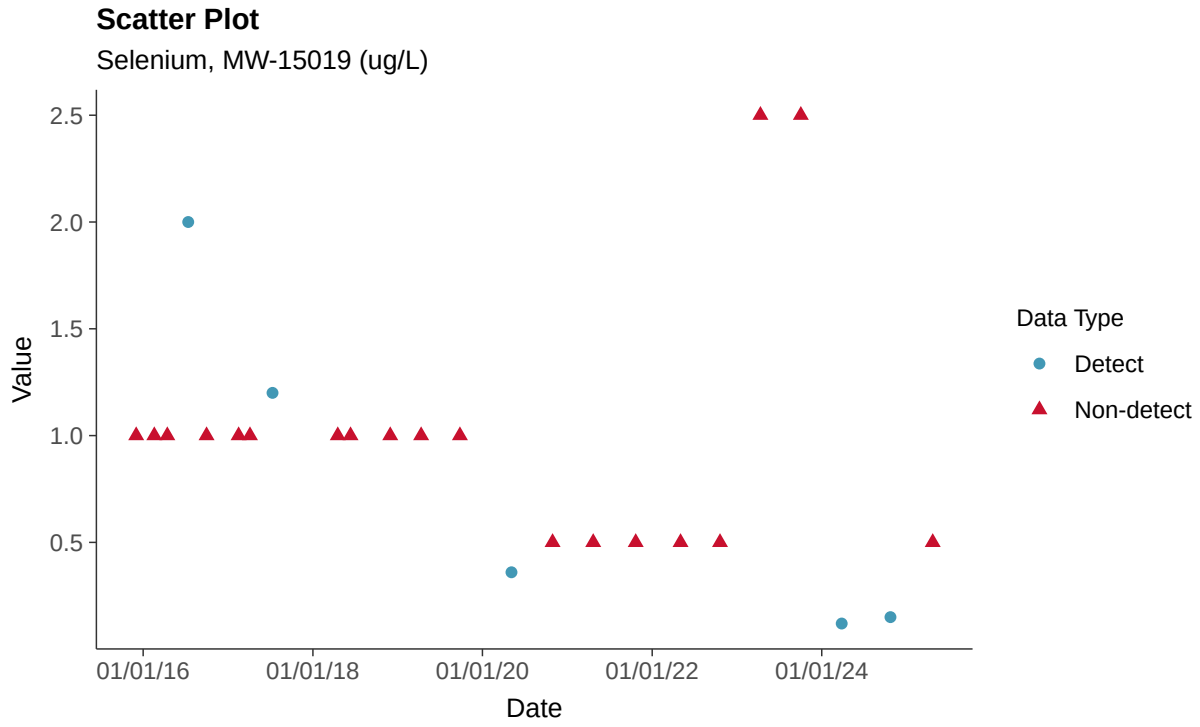
Trend Regression: Piecewise Linear-Linear-Linear

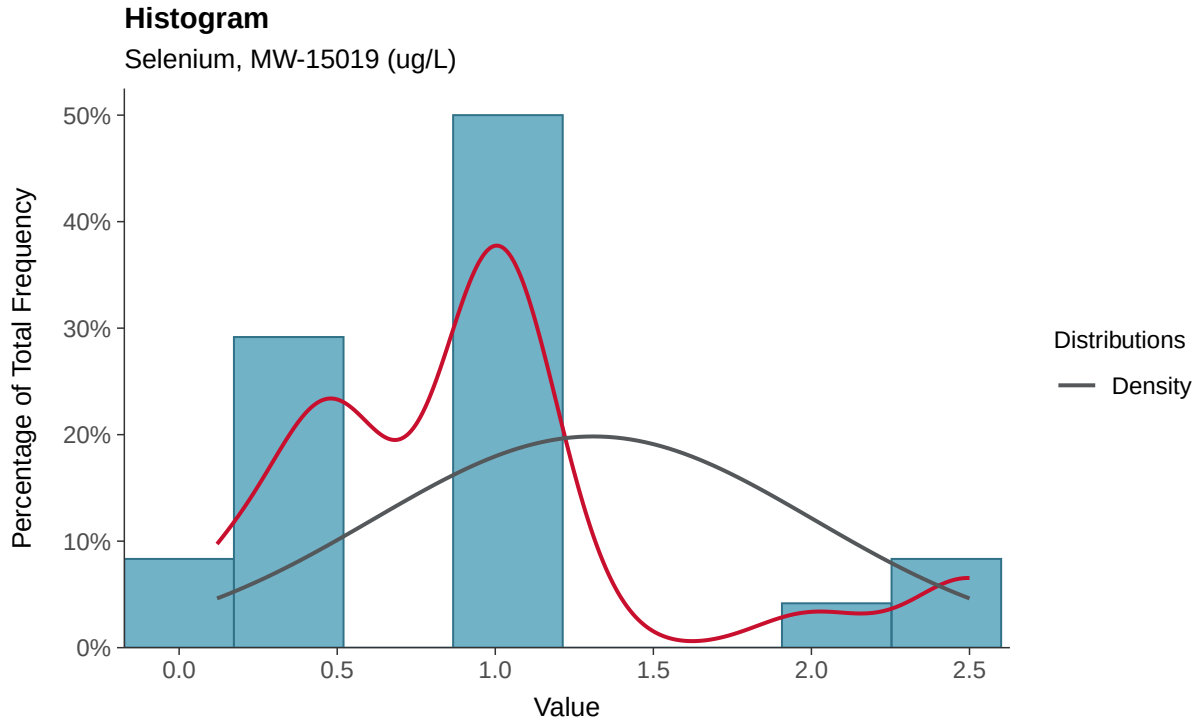
Radium-226+228, MW-15019 (pCi/L)



Appendix IV: Selenium, MW-15019

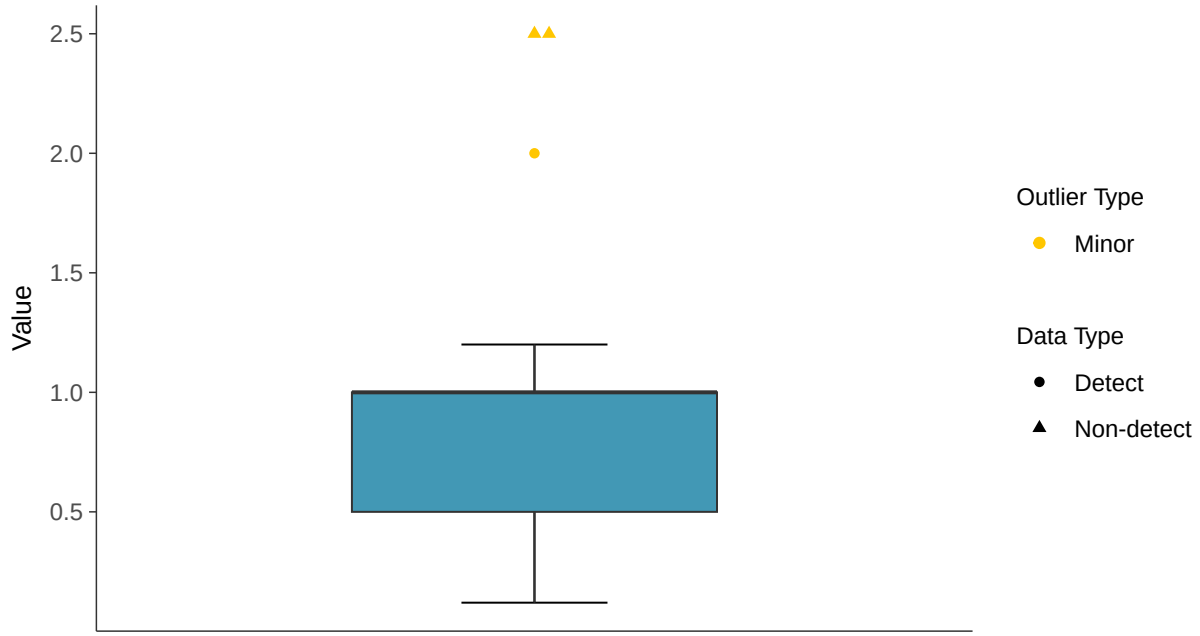
ID: 09_2_127





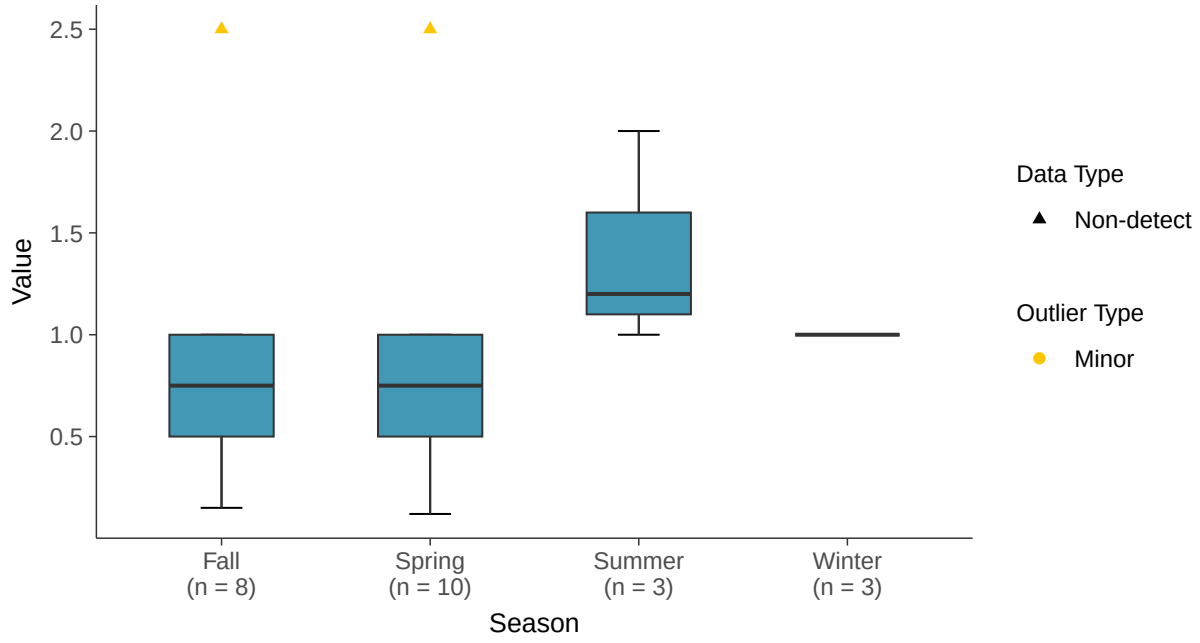
Boxplot

Selenium, MW-15019 (ug/L)



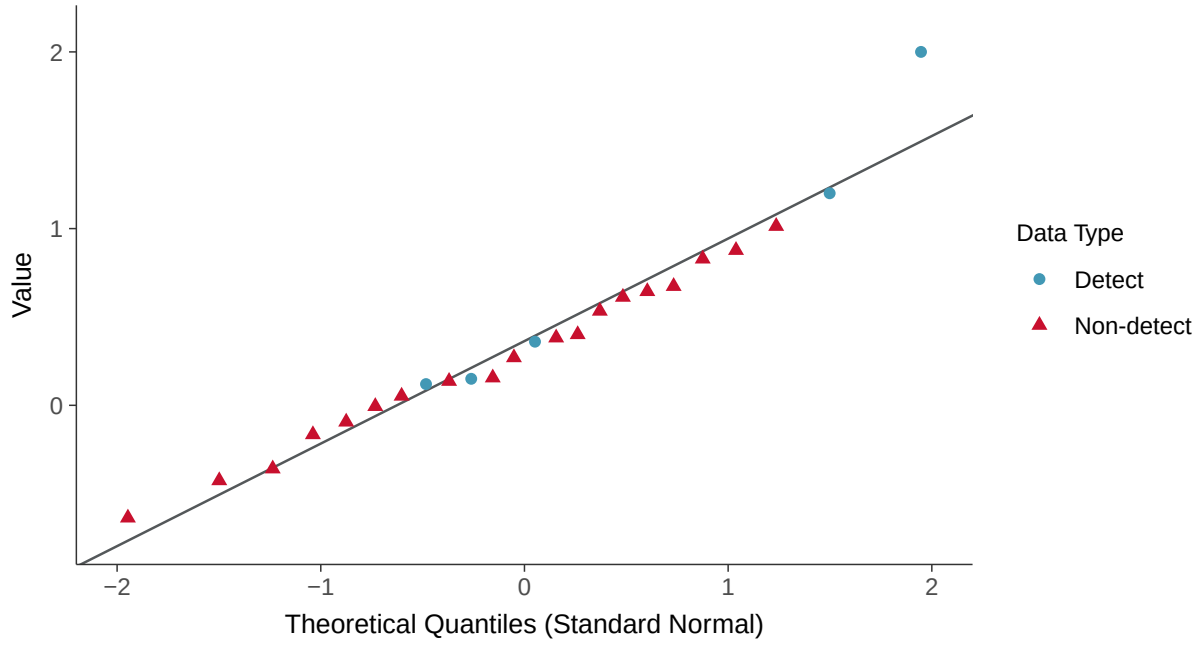
Boxplot by Season

Selenium, MW-15019 (ug/L)



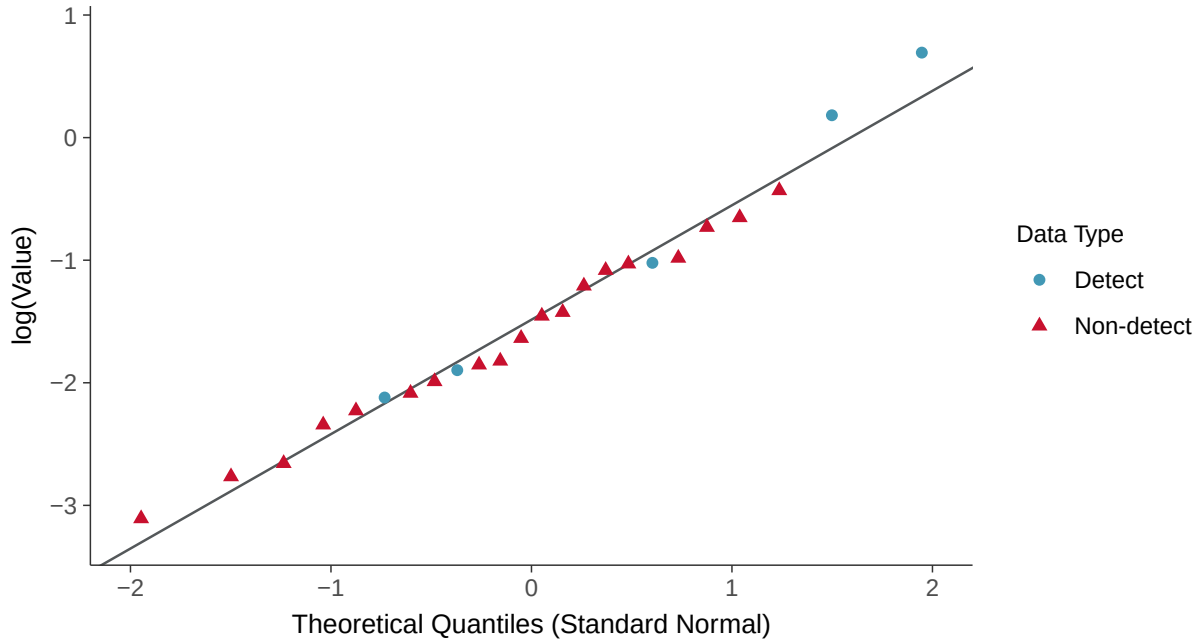
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-15019 (ug/L)



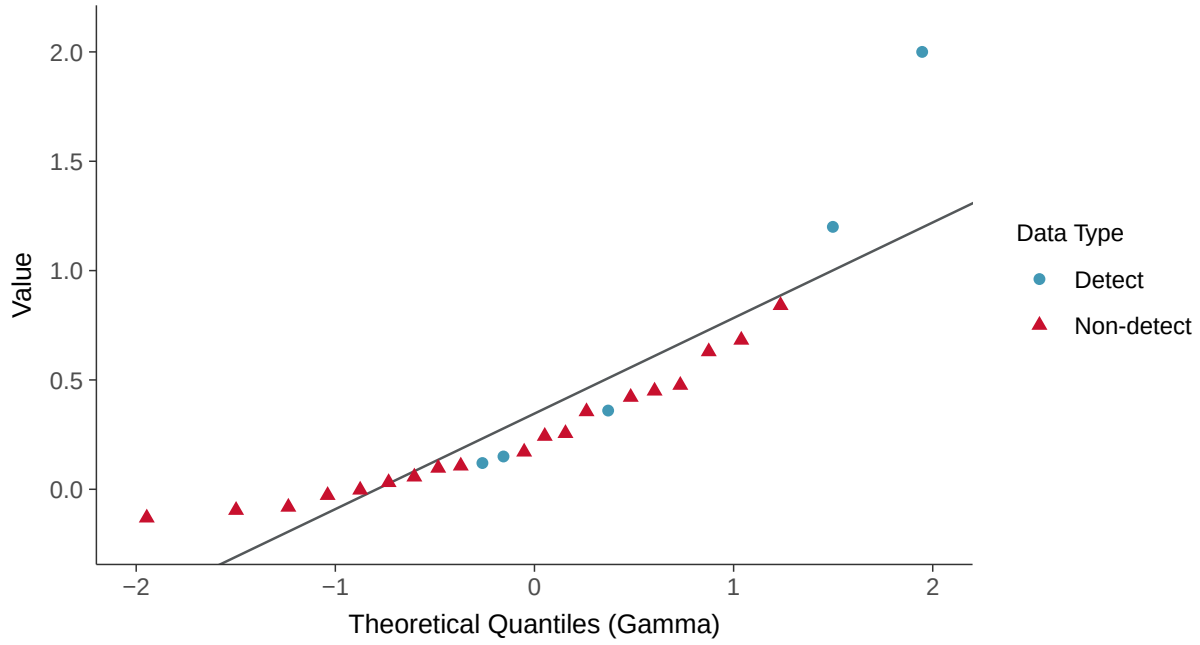
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-15019 (ug/L)



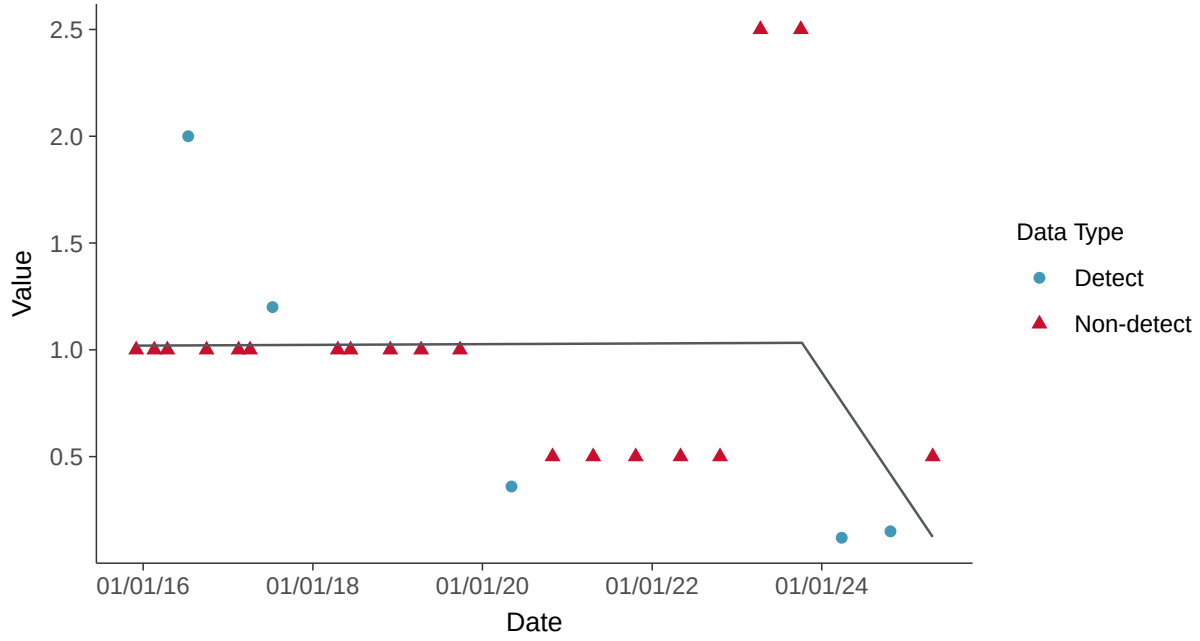
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-15019 (ug/L)



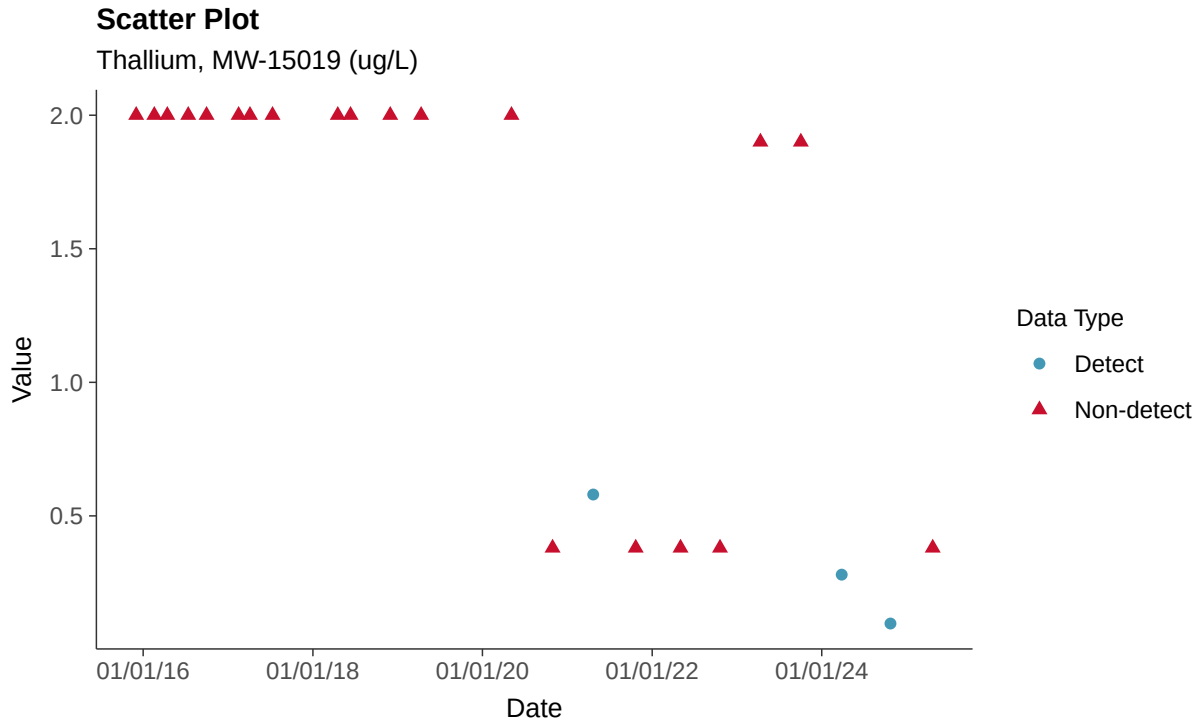
Trend Regression: Piecewise Linear-Linear

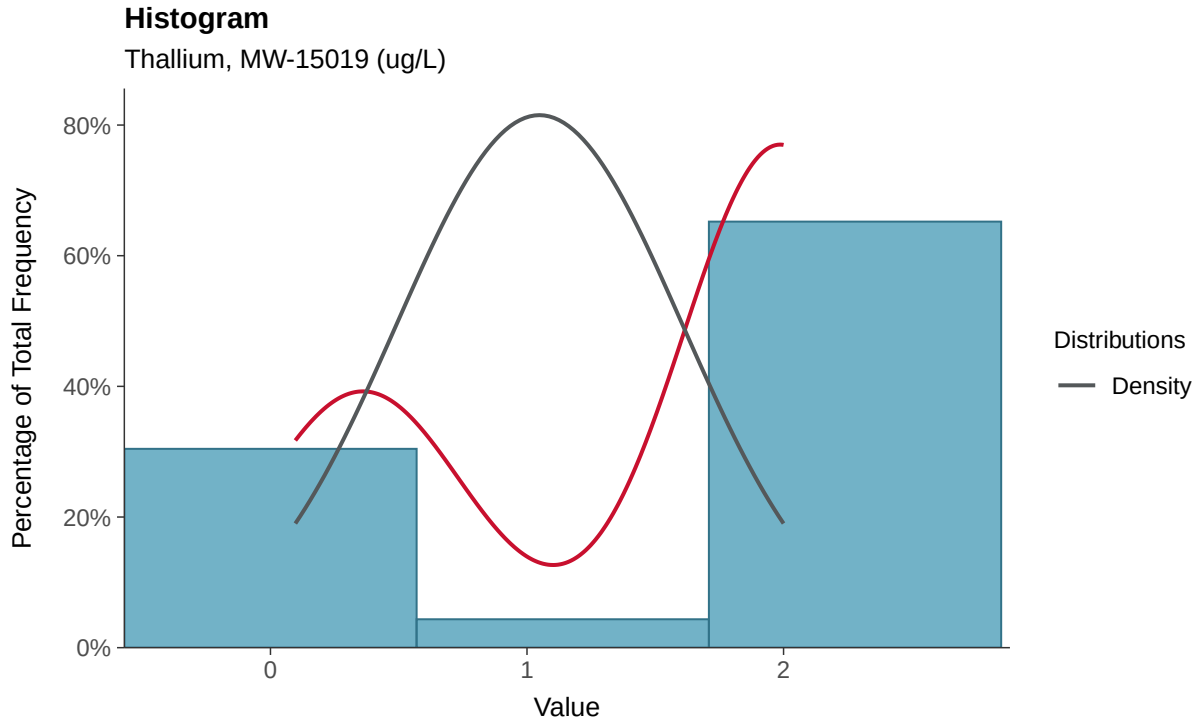
Selenium, MW-15019 (ug/L)



Appendix IV: Thallium, MW-15019

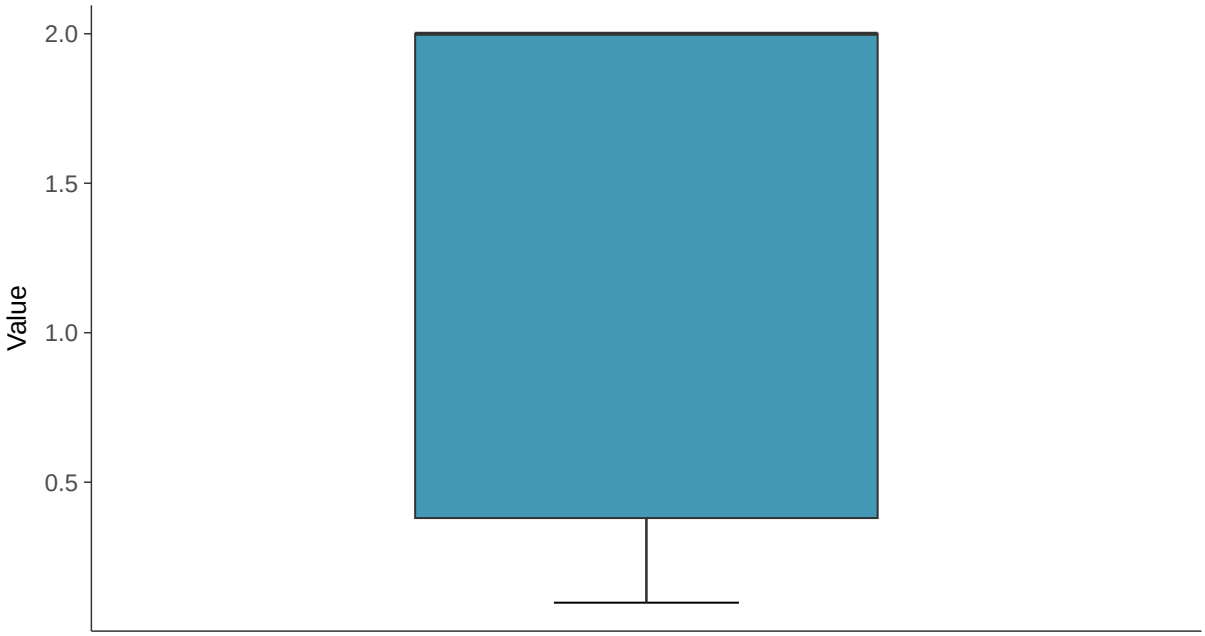
ID: 09_2_131





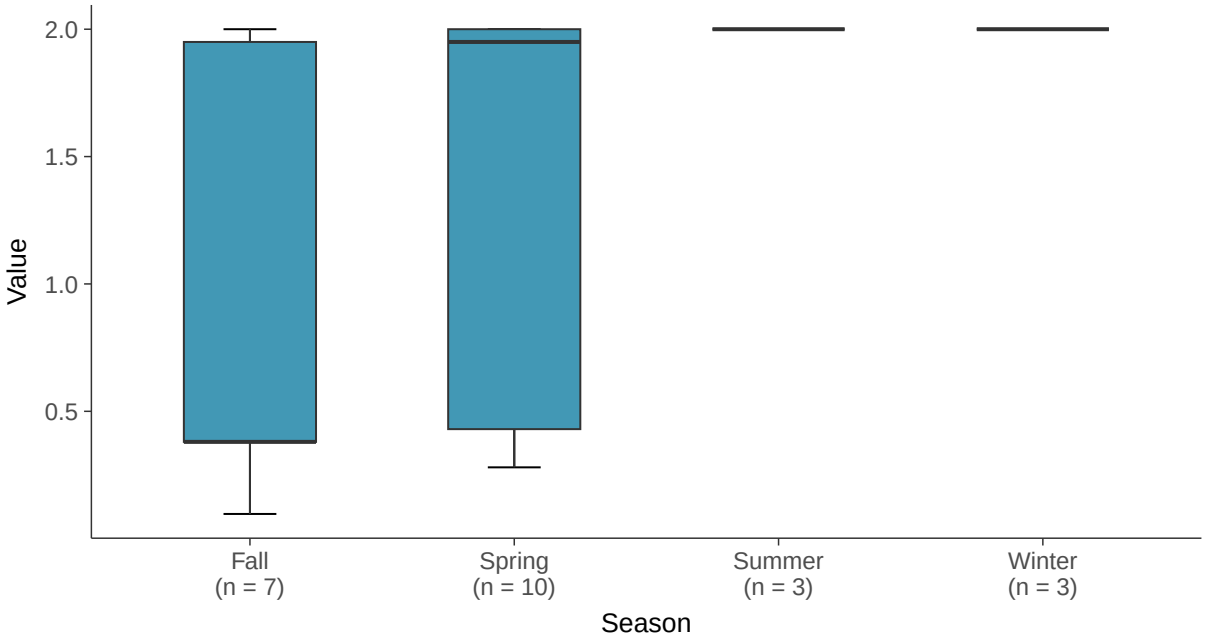
Boxplot

Thallium, MW-15019 (ug/L)



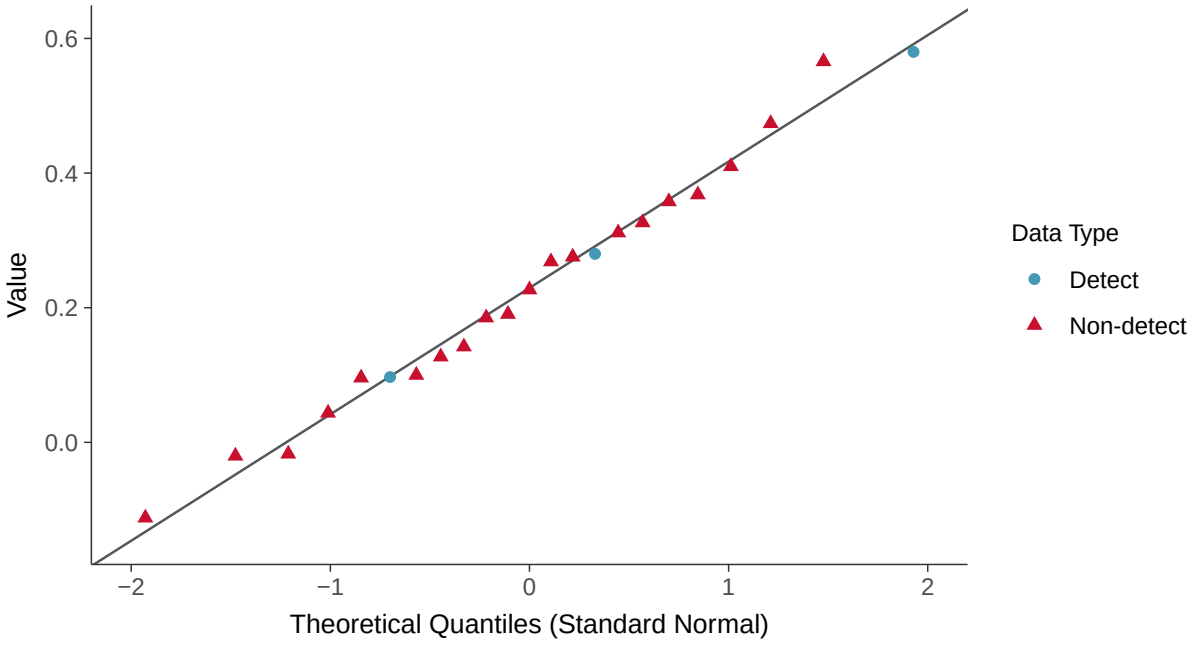
Boxplot by Season

Thallium, MW-15019 (ug/L)



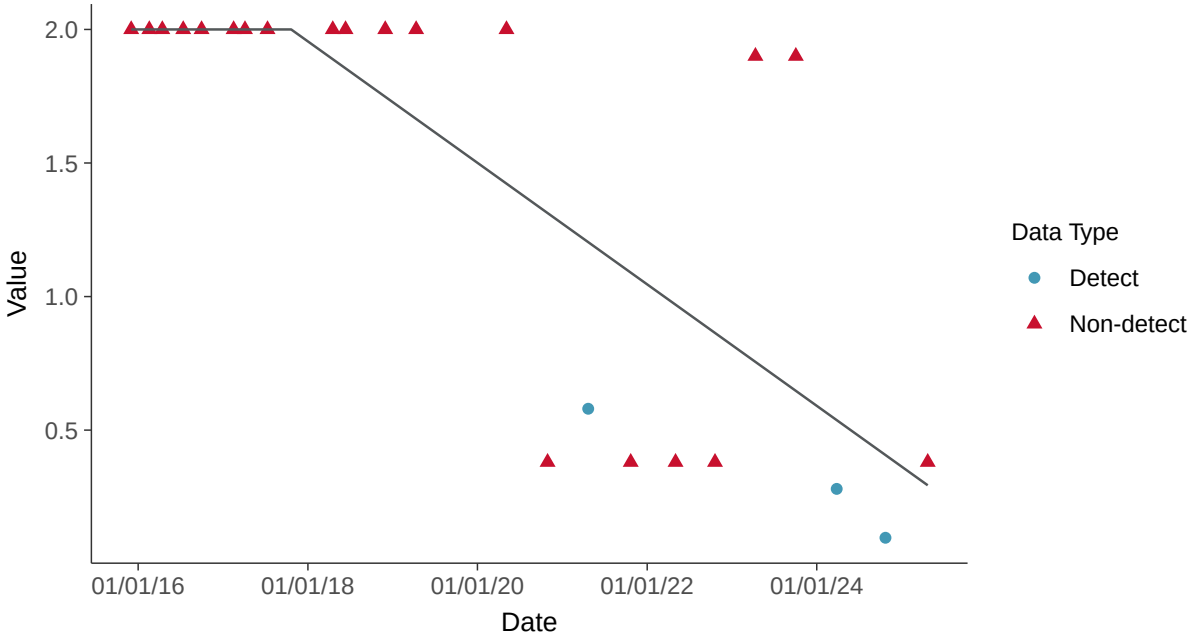
Normal Q-Q plot using ROS Imputed Estimates

Thallium, MW-15019 (ug/L)



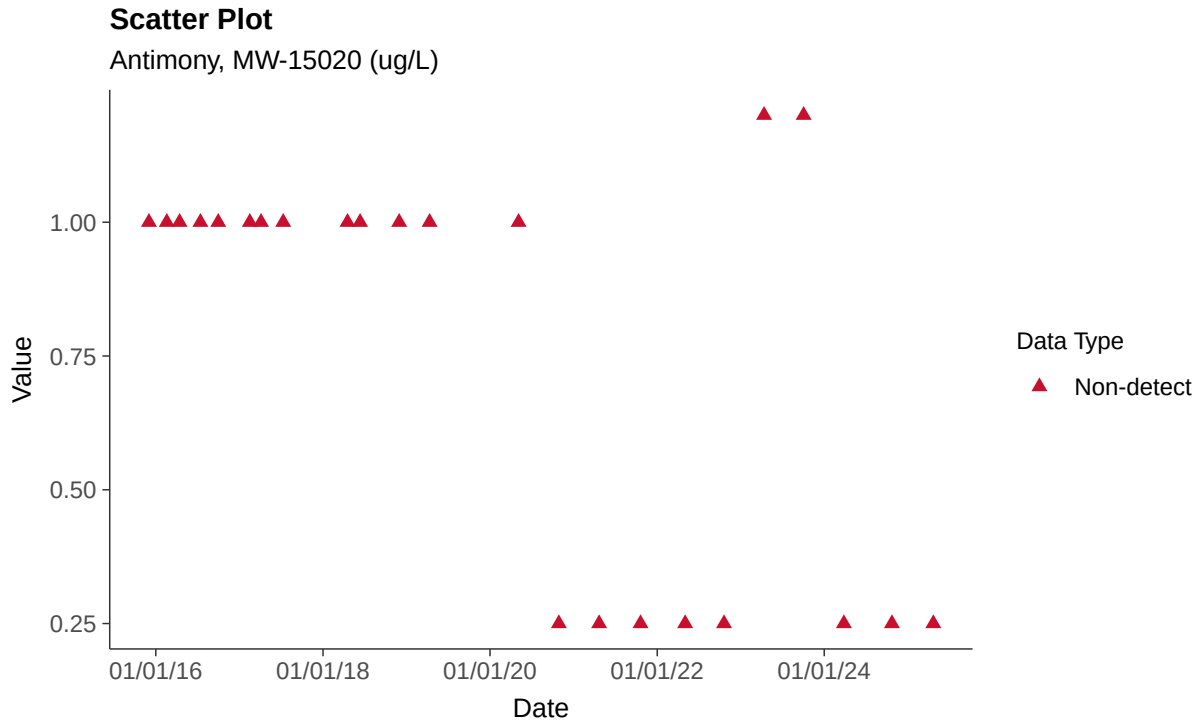
Trend Regression: Piecewise Linear-Linear

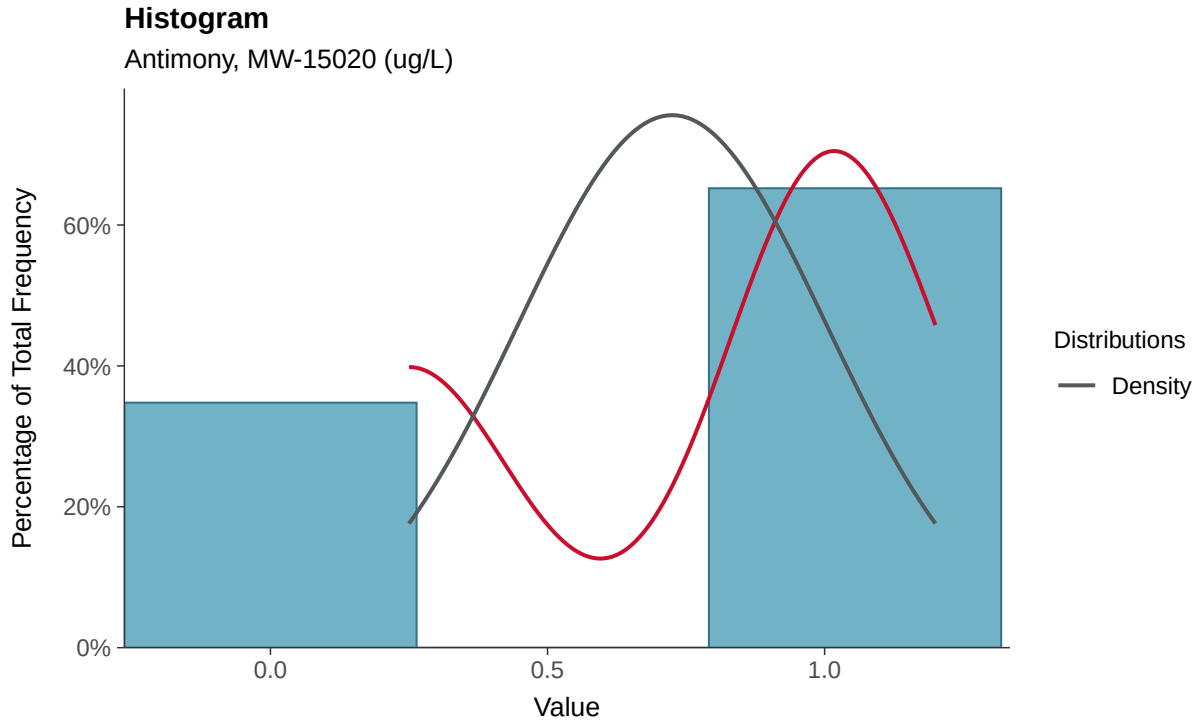
Thallium, MW-15019 (ug/L)



Appendix IV: Antimony, MW-15020

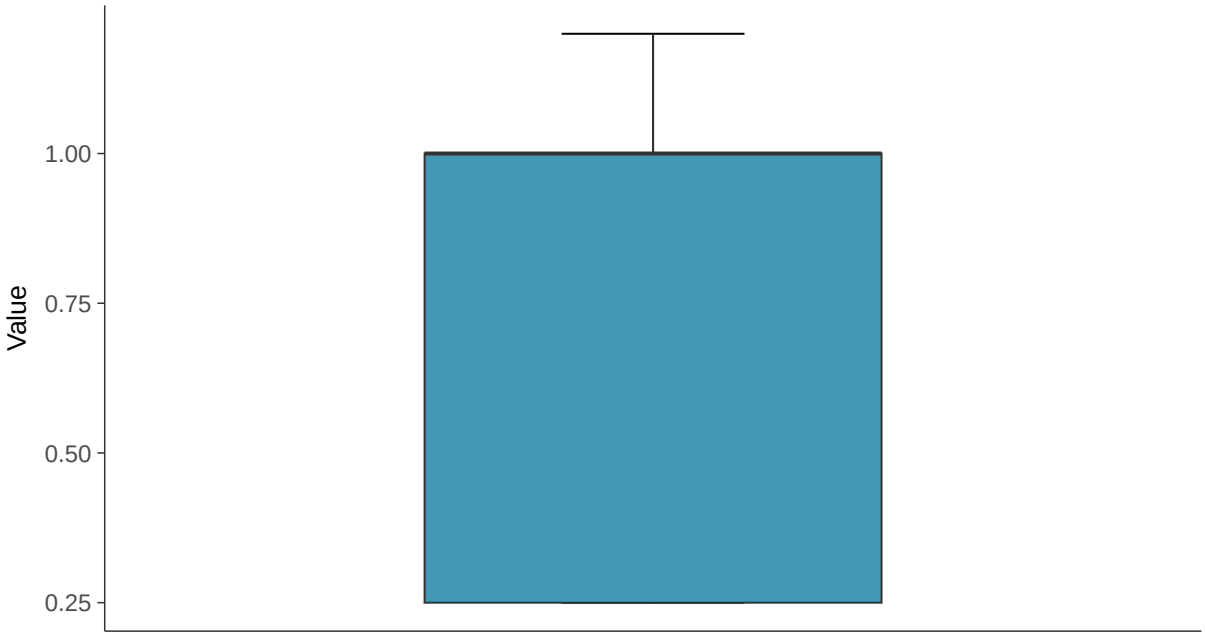
ID: 10_2_101





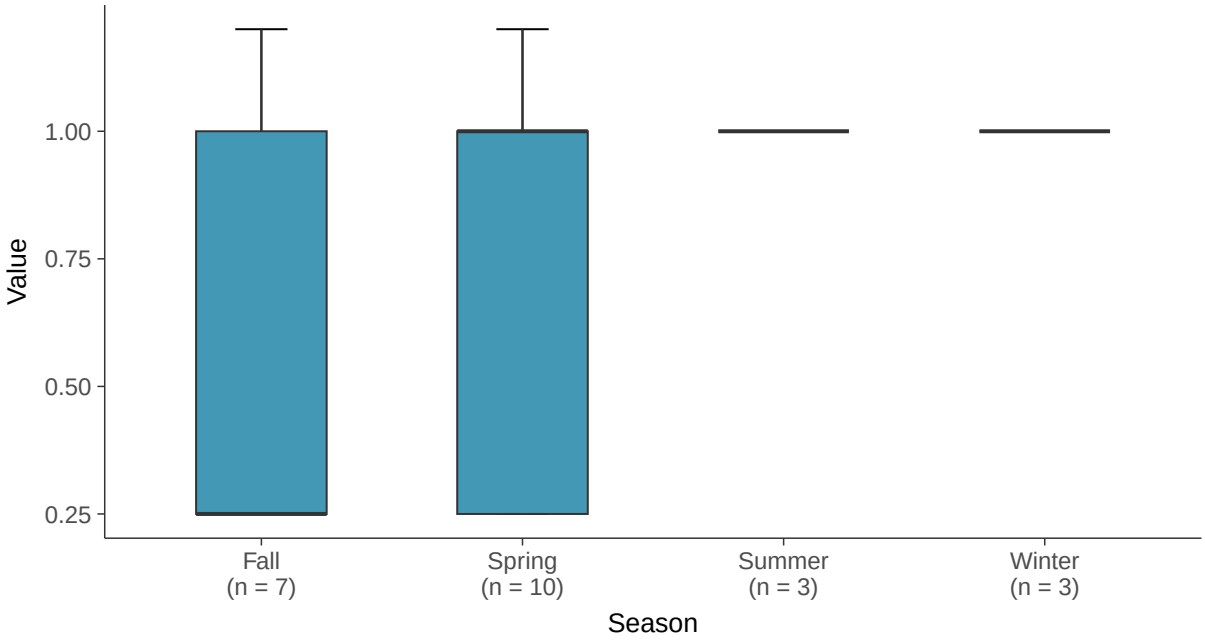
Boxplot

Antimony, MW-15020 (ug/L)



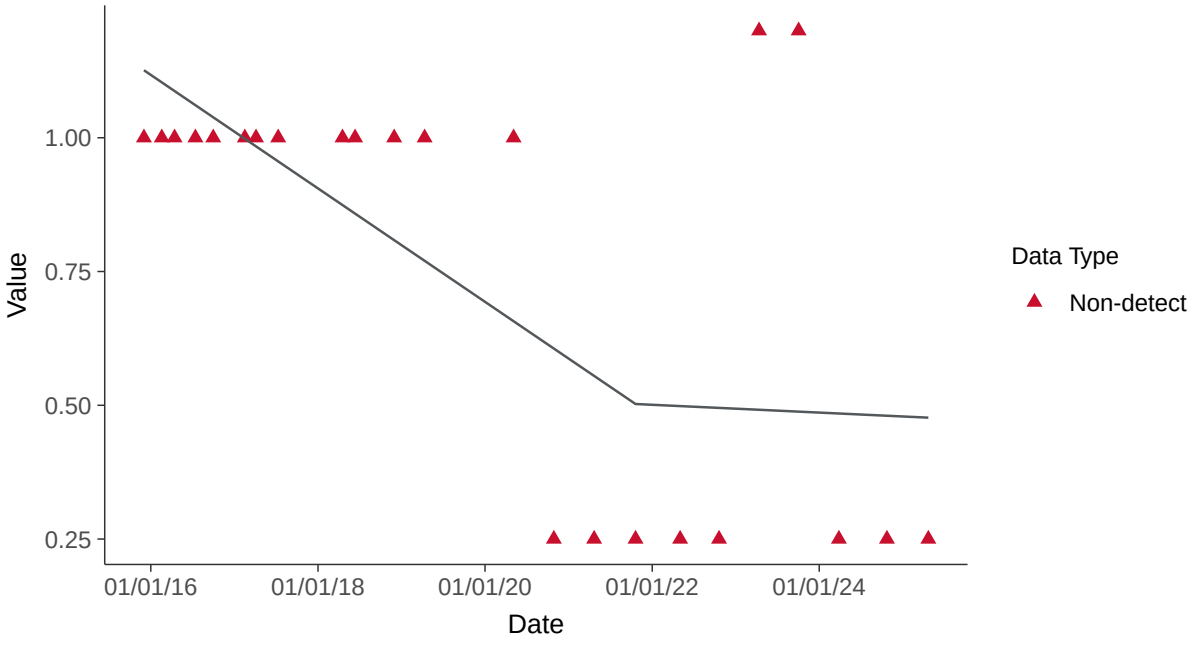
Boxplot by Season

Antimony, MW-15020 (ug/L)



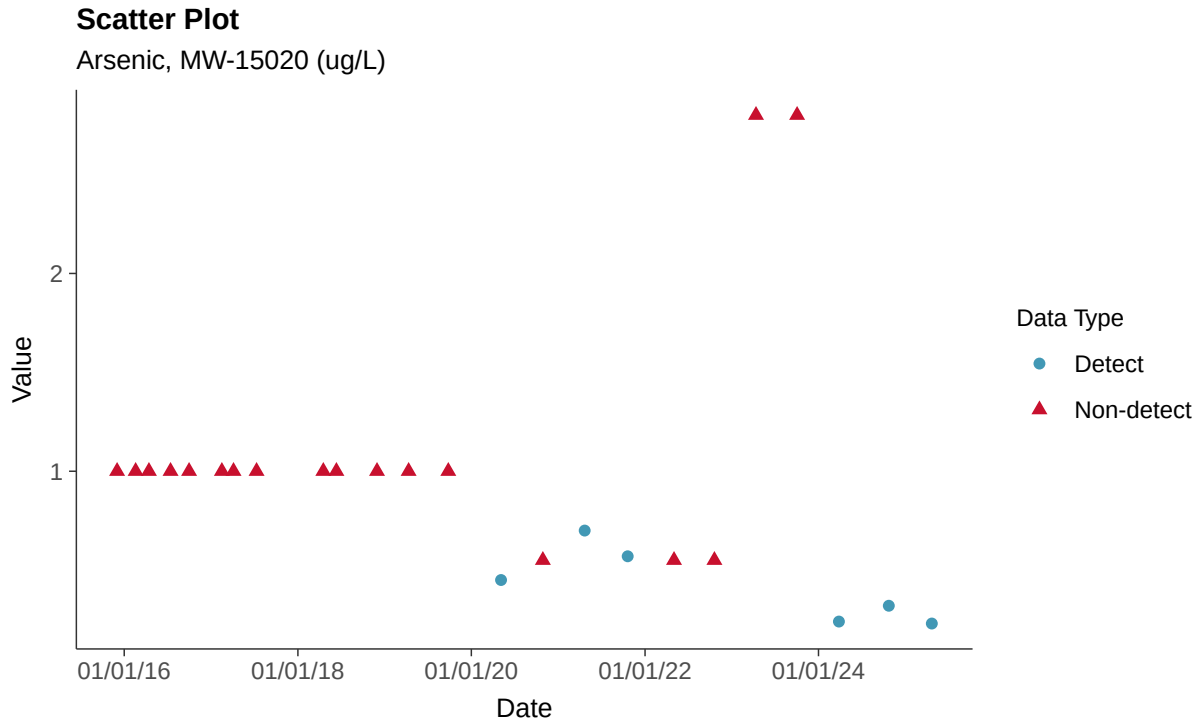
Trend Regression: Piecewise Linear-Linear

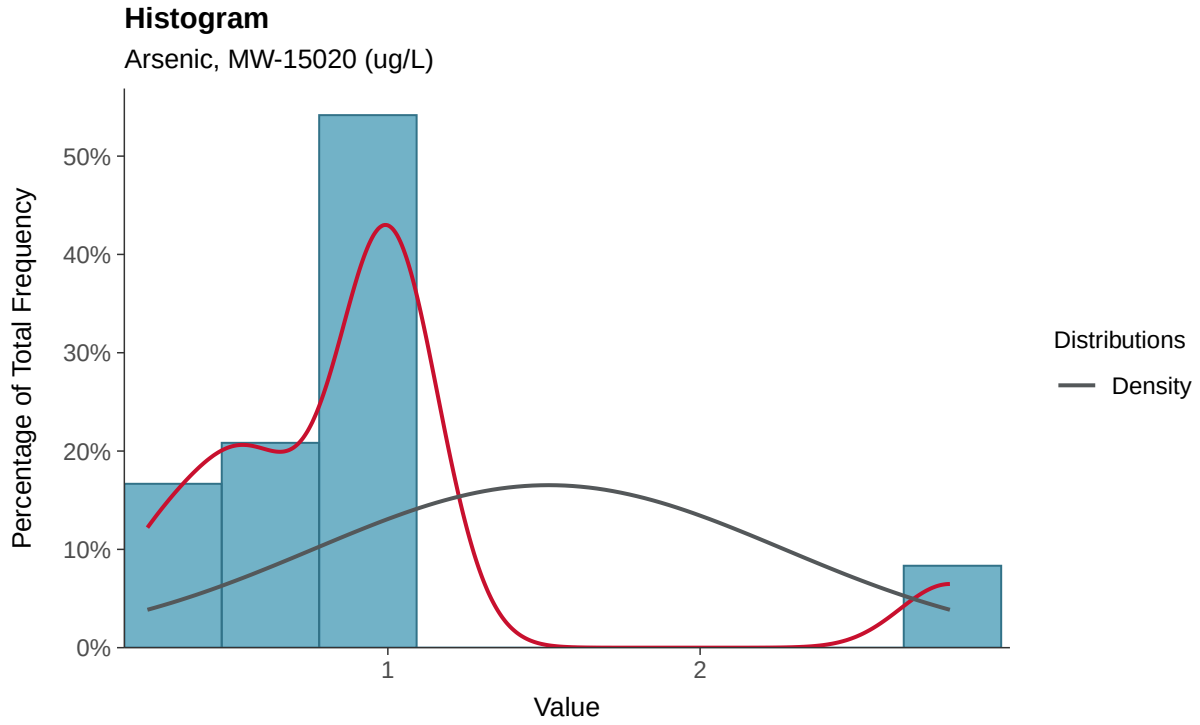
Antimony, MW-15020 (ug/L)



Appendix IV: Arsenic, MW-15020

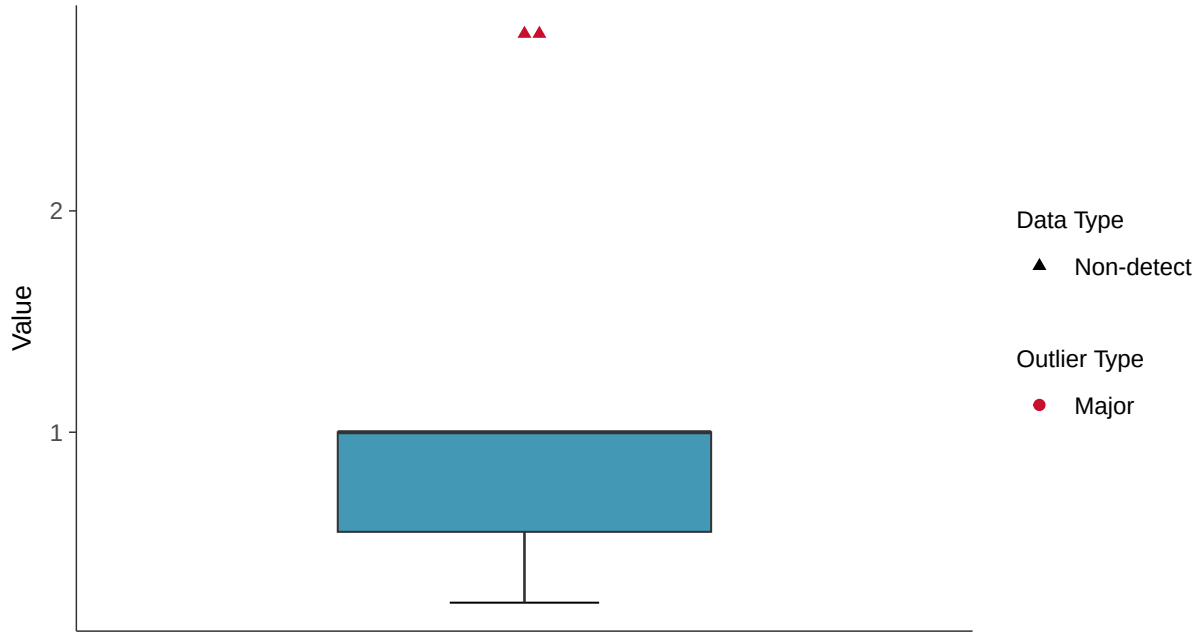
ID: 10_2_102





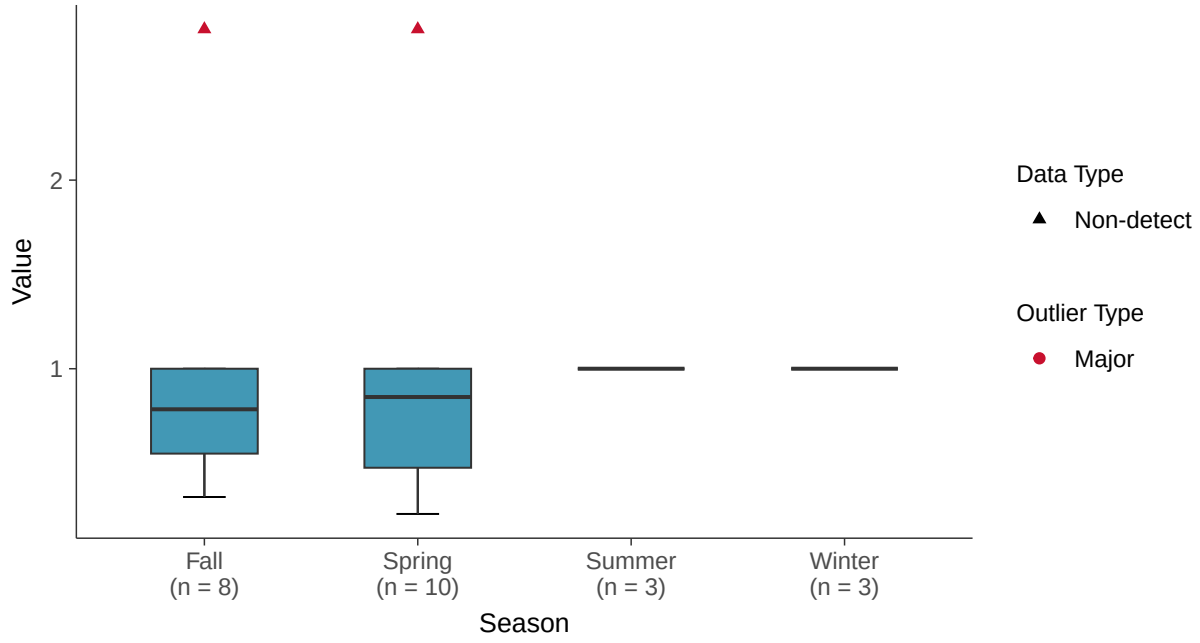
Boxplot

Arsenic, MW-15020 (ug/L)



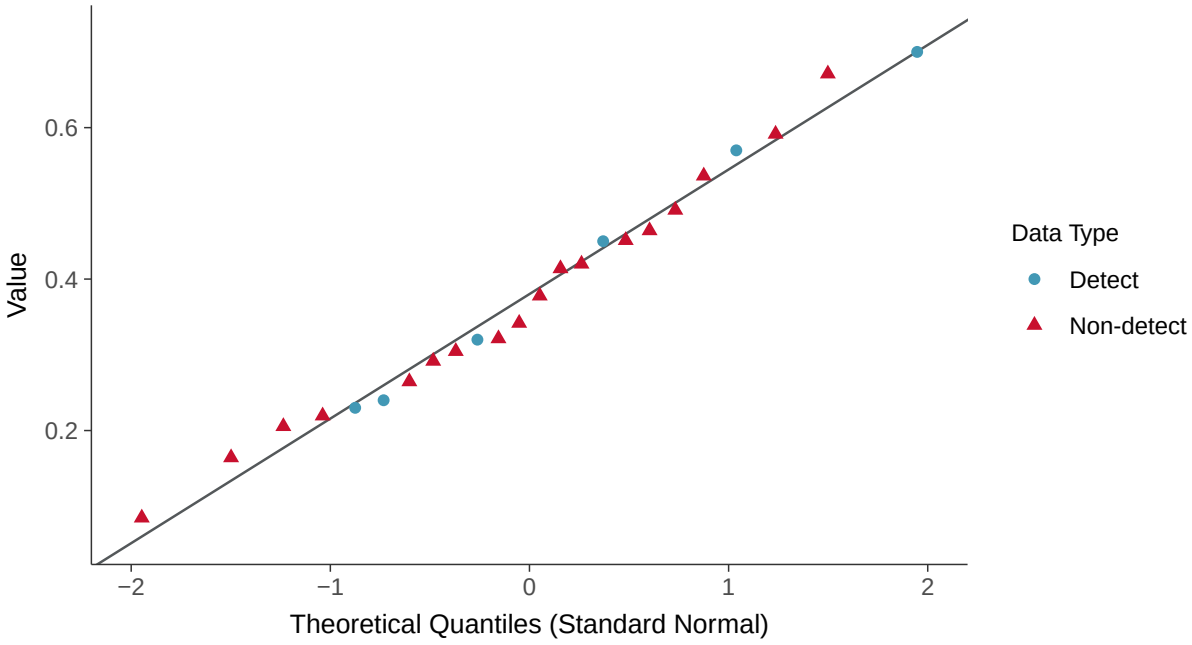
Boxplot by Season

Arsenic, MW-15020 (ug/L)



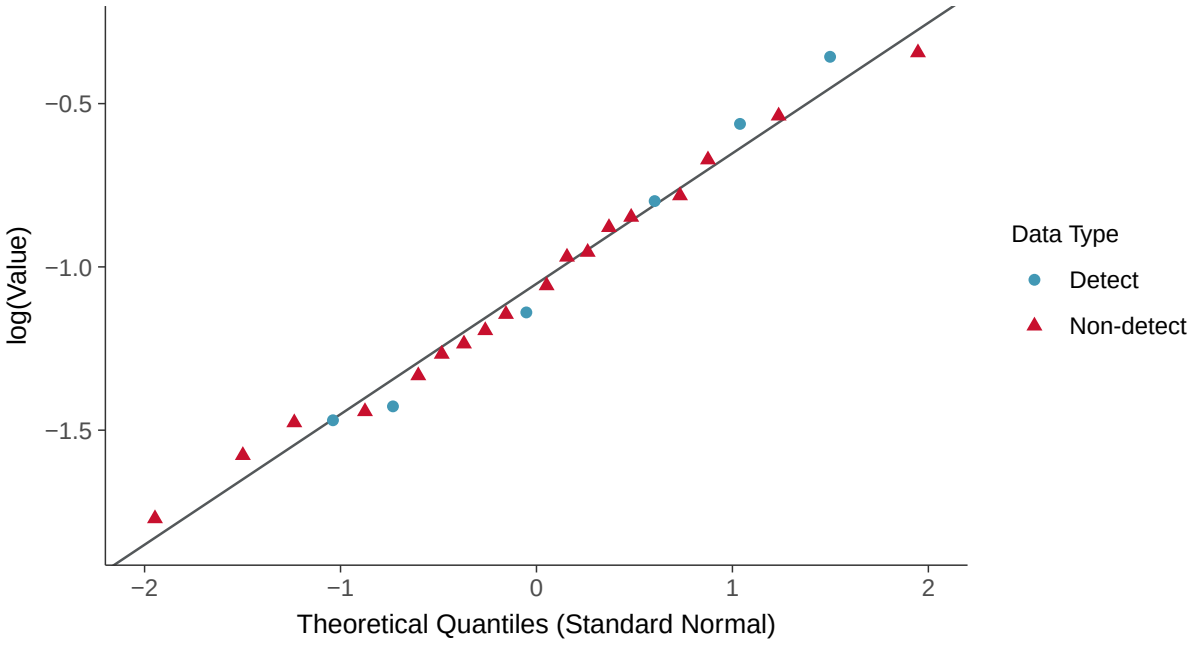
Normal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15020 (ug/L)



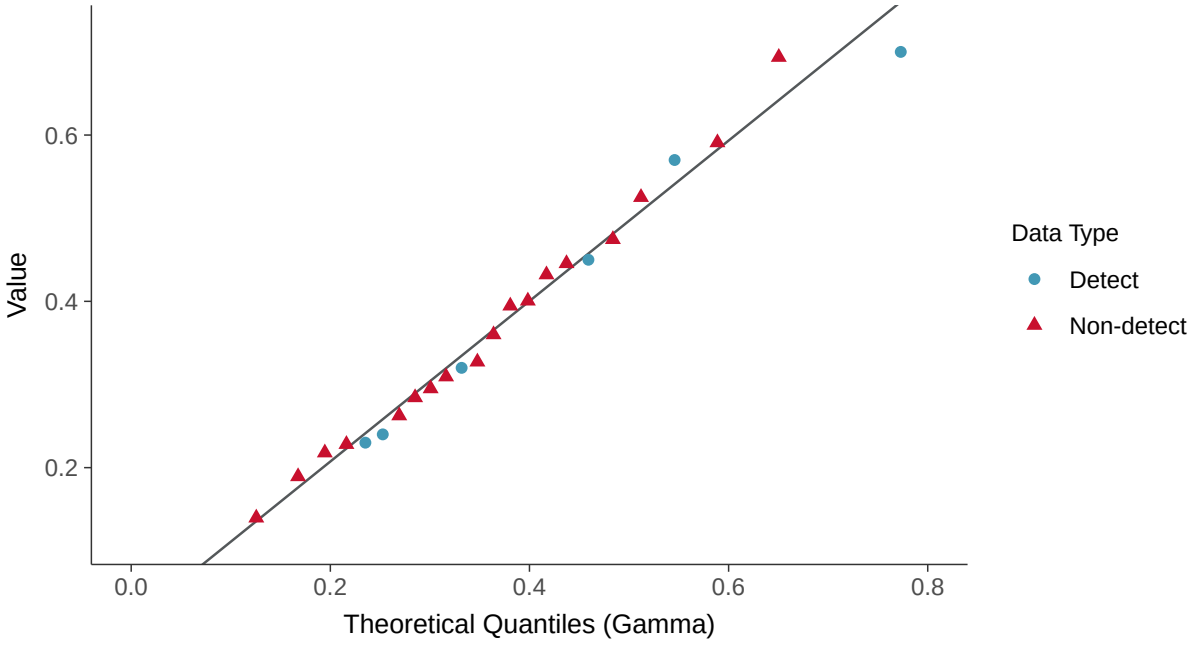
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15020 (ug/L)



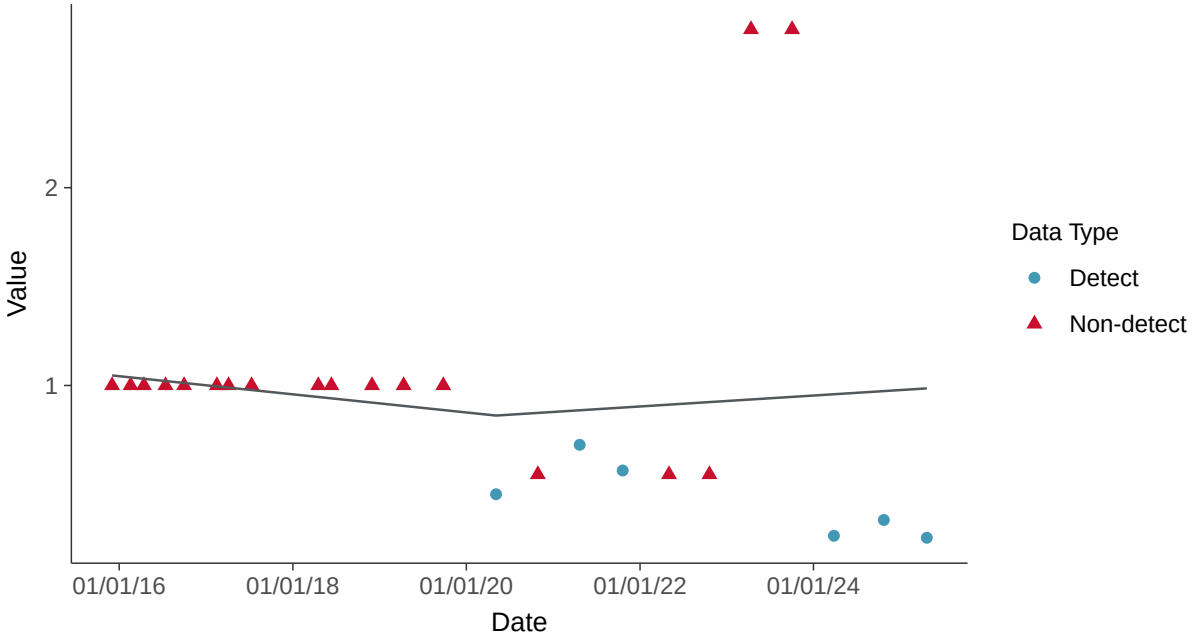
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15020 (ug/L)



Trend Regression: Piecewise Linear-Linear

Arsenic, MW-15020 (ug/L)

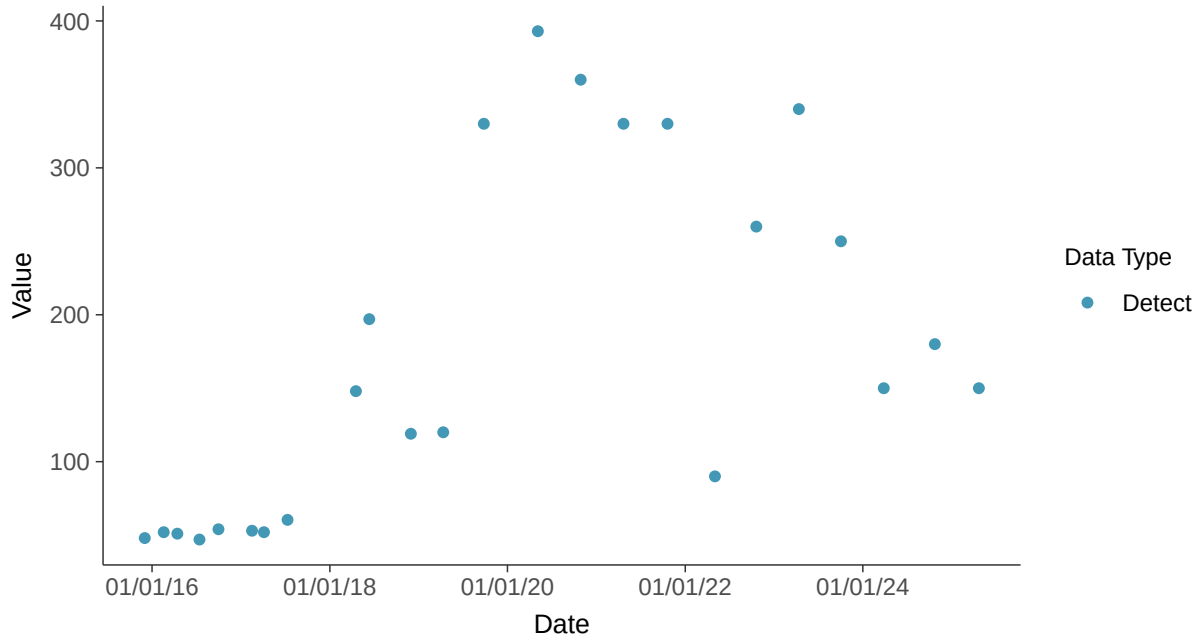


Appendix IV: Barium, MW-15020

ID: 10_2_103

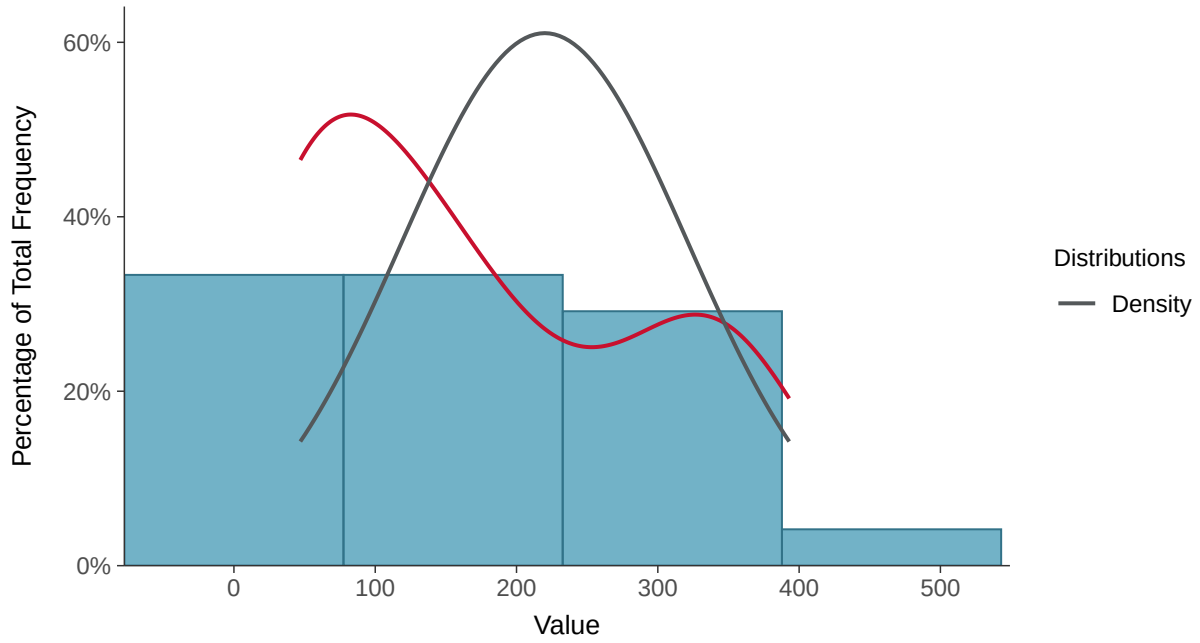
Scatter Plot

Barium, MW-15020 (ug/L)



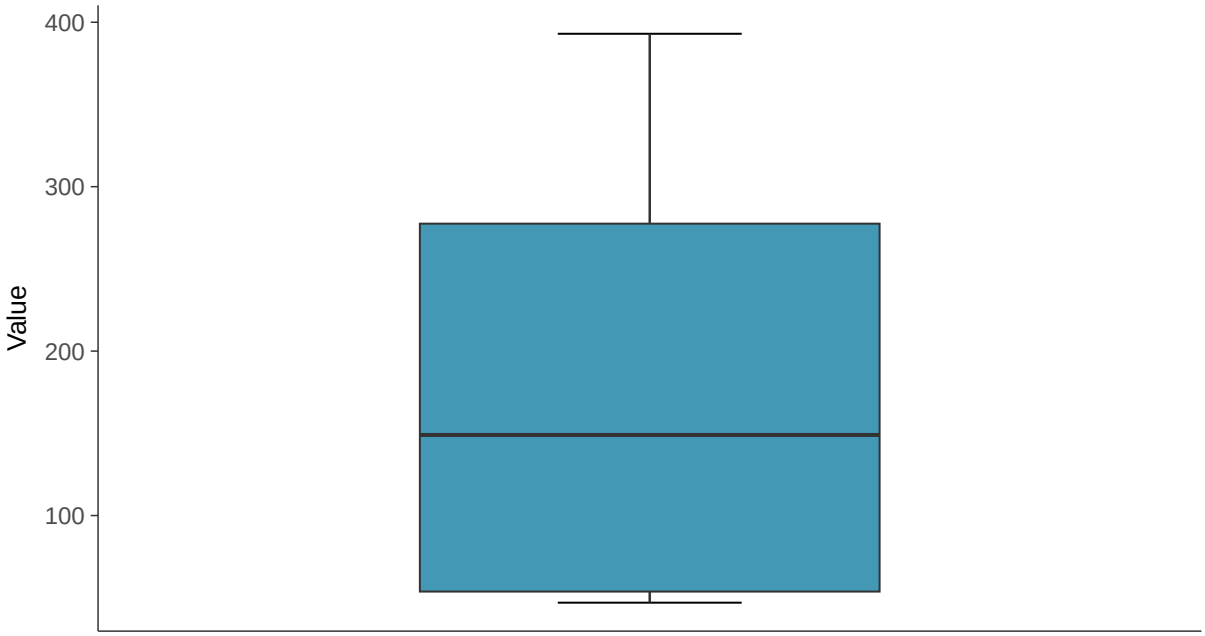
Histogram

Barium, MW-15020 (ug/L)



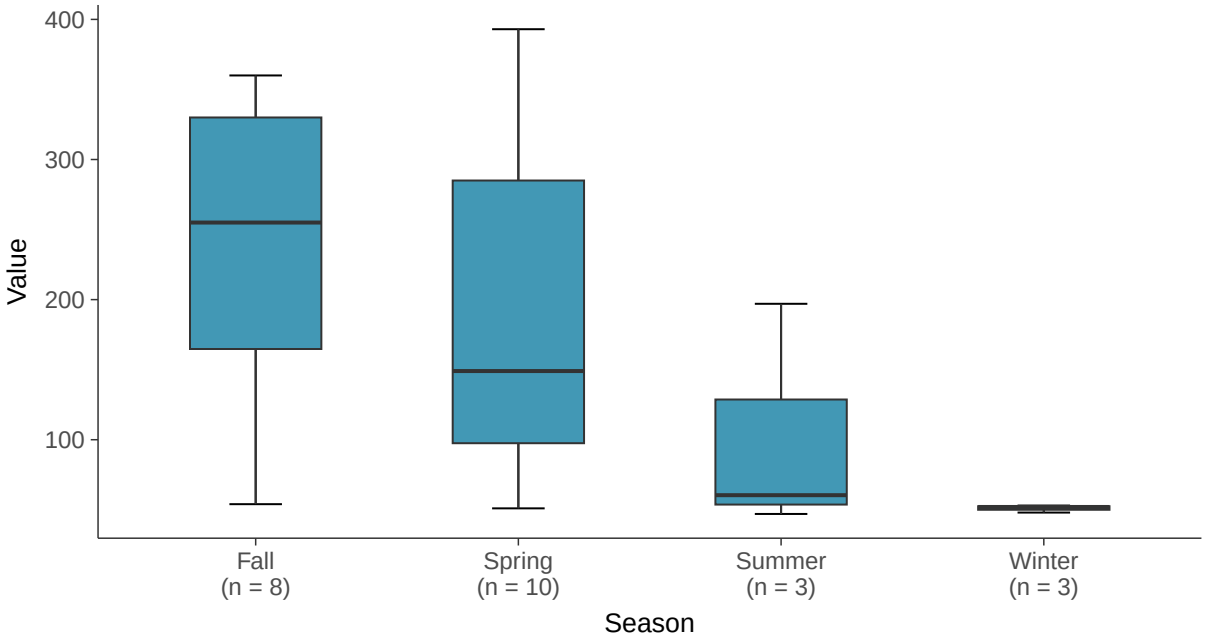
Boxplot

Barium, MW-15020 (ug/L)



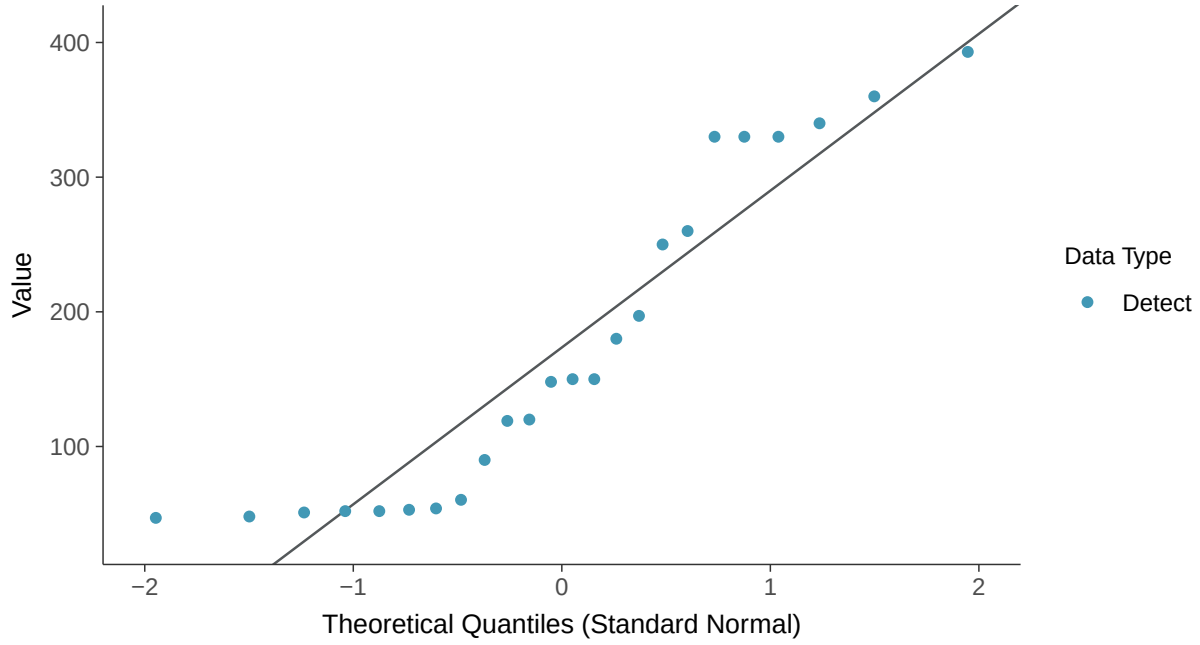
Boxplot by Season

Barium, MW-15020 (ug/L)



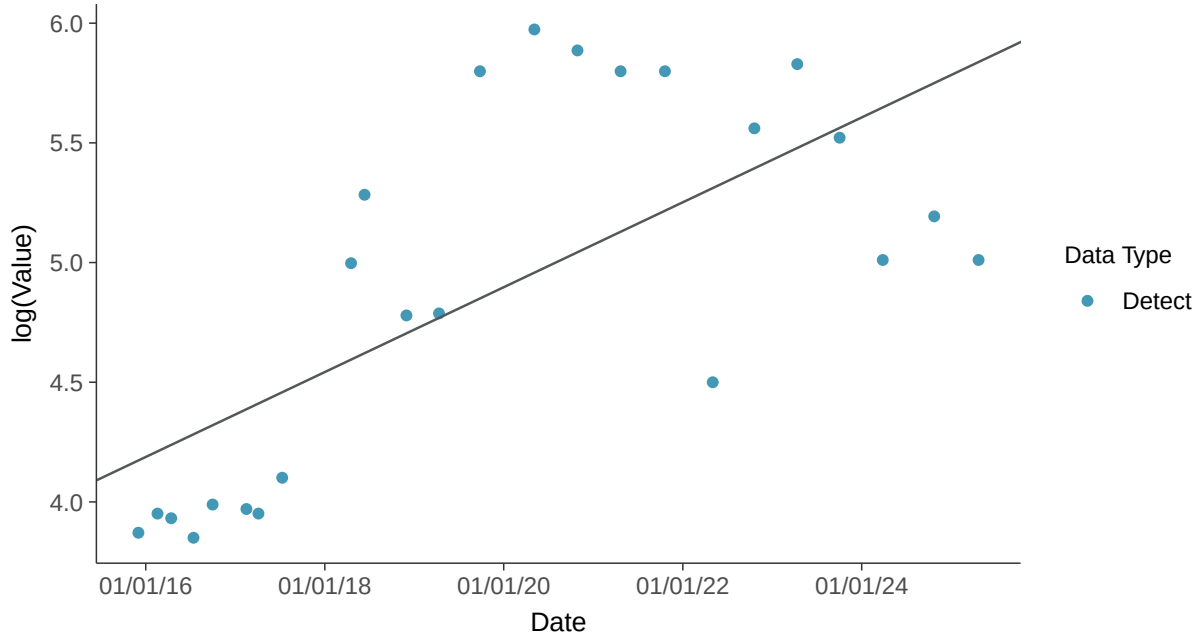
Normal Q-Q plot

Barium, MW-15020 (ug/L)



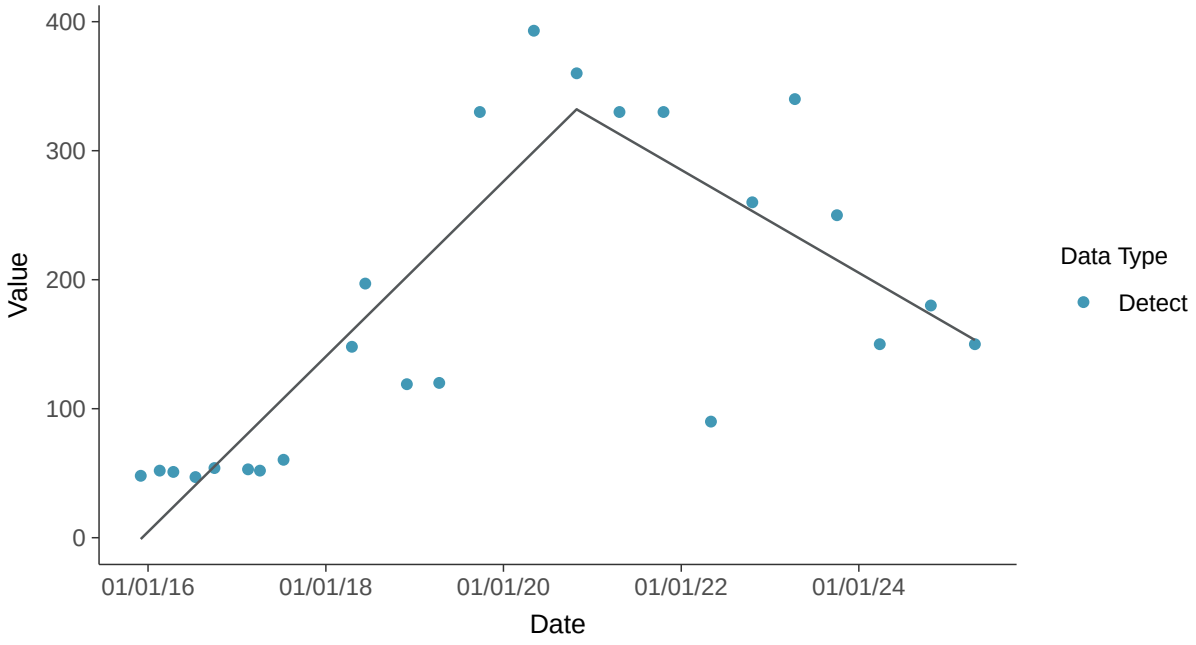
Trend Regression: Lognormal MLE

Barium, MW-15020 (ug/L)



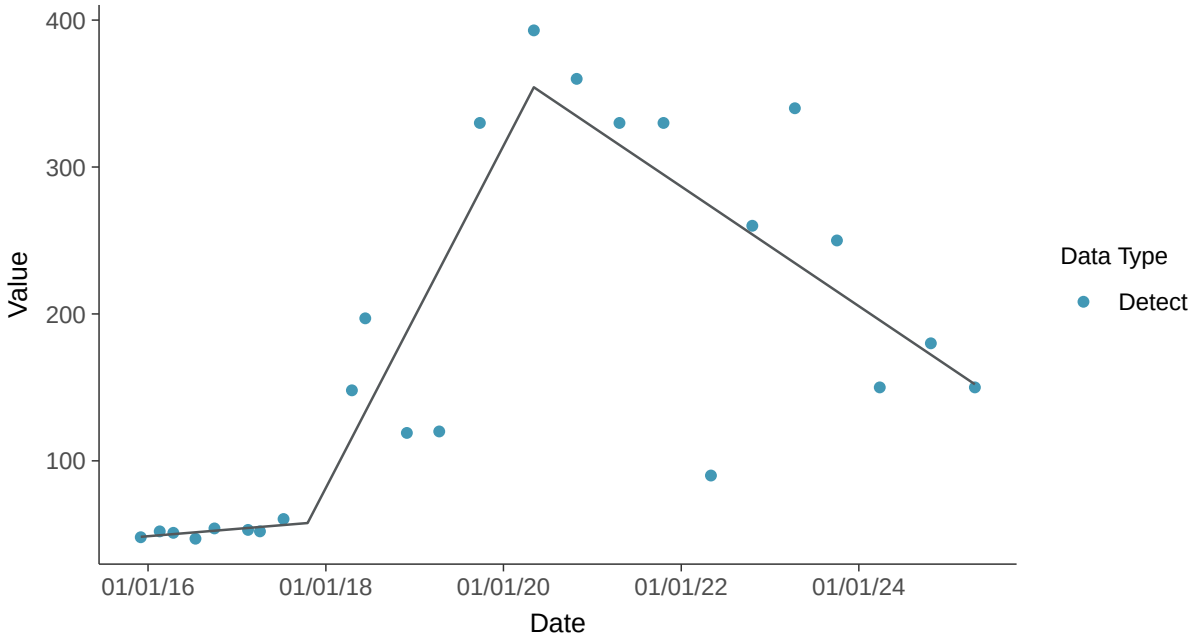
Trend Regression: Piecewise Linear-Linear

Barium, MW-15020 (ug/L)



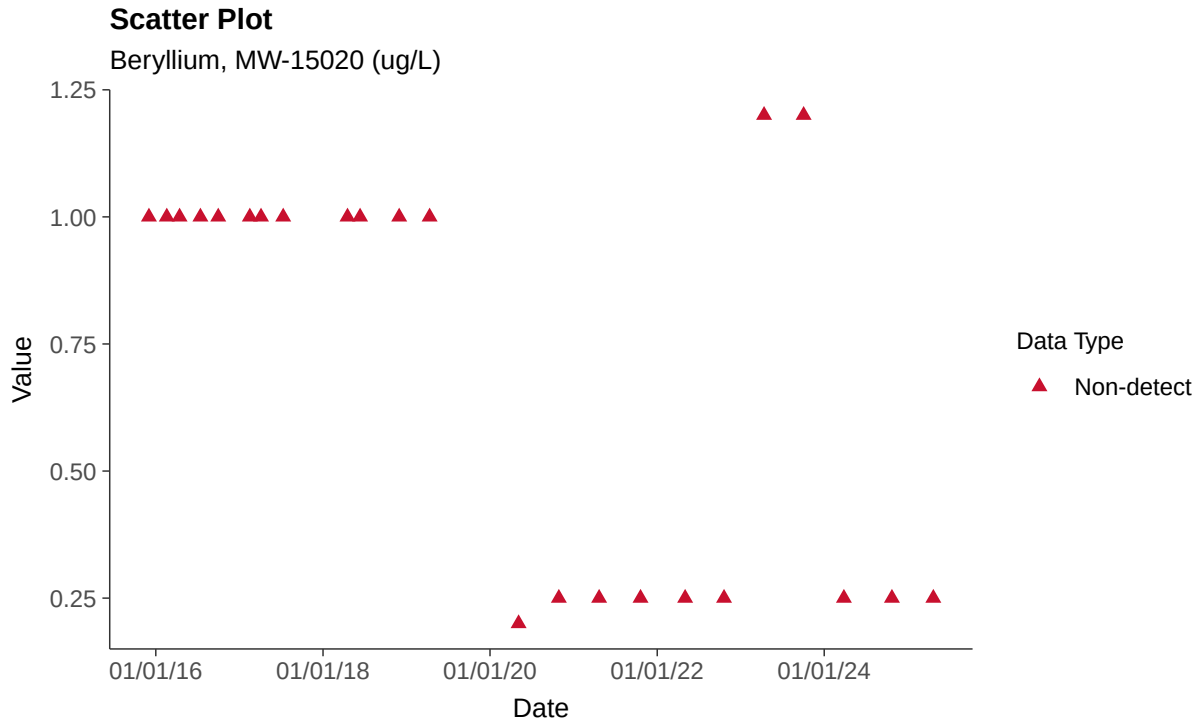
Trend Regression: Piecewise Linear-Linear-Linear

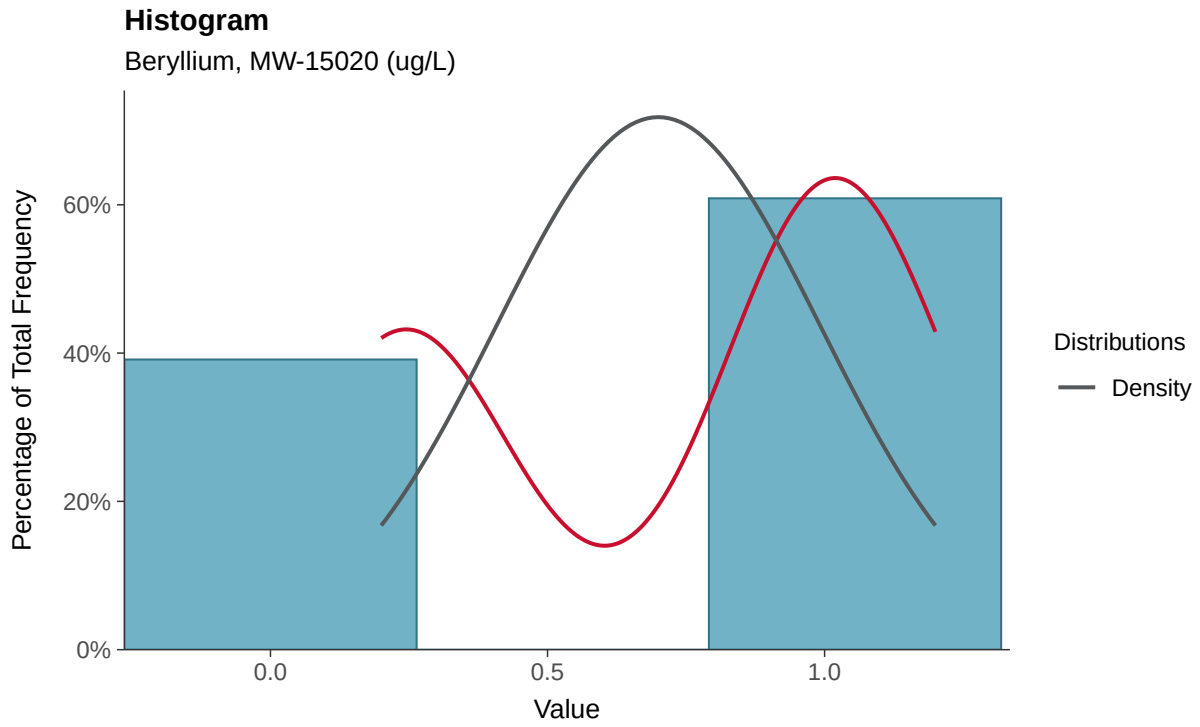
Barium, MW-15020 (ug/L)



Appendix IV: Beryllium, MW-15020

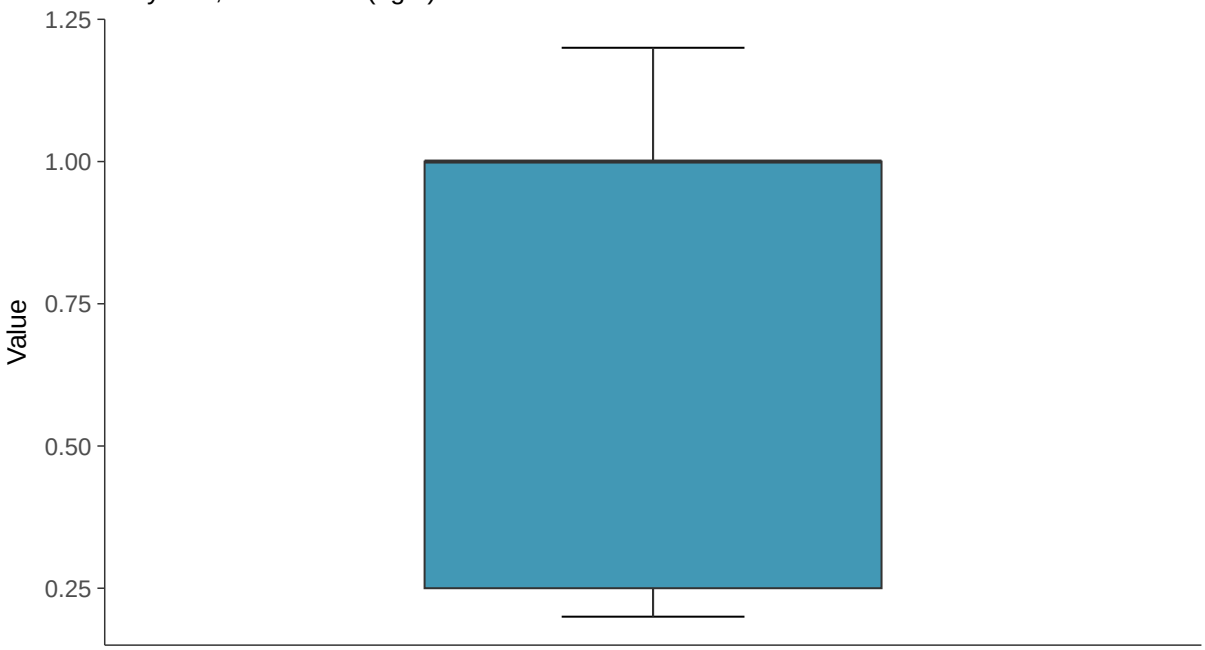
ID: 10_2_104





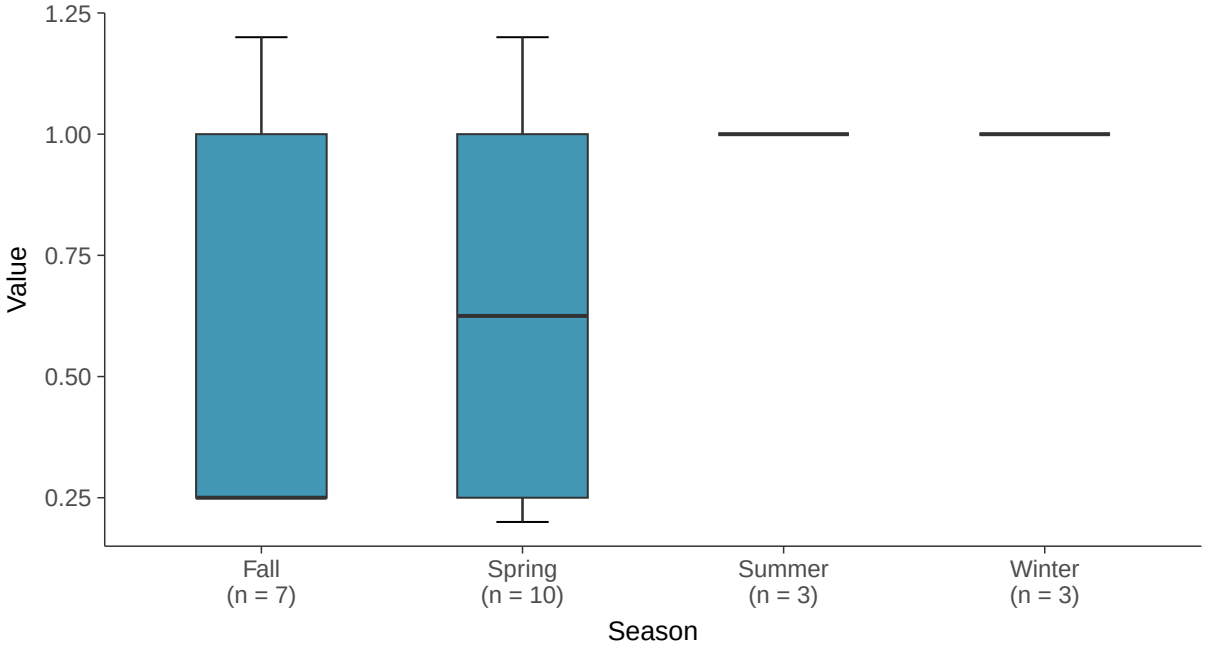
Boxplot

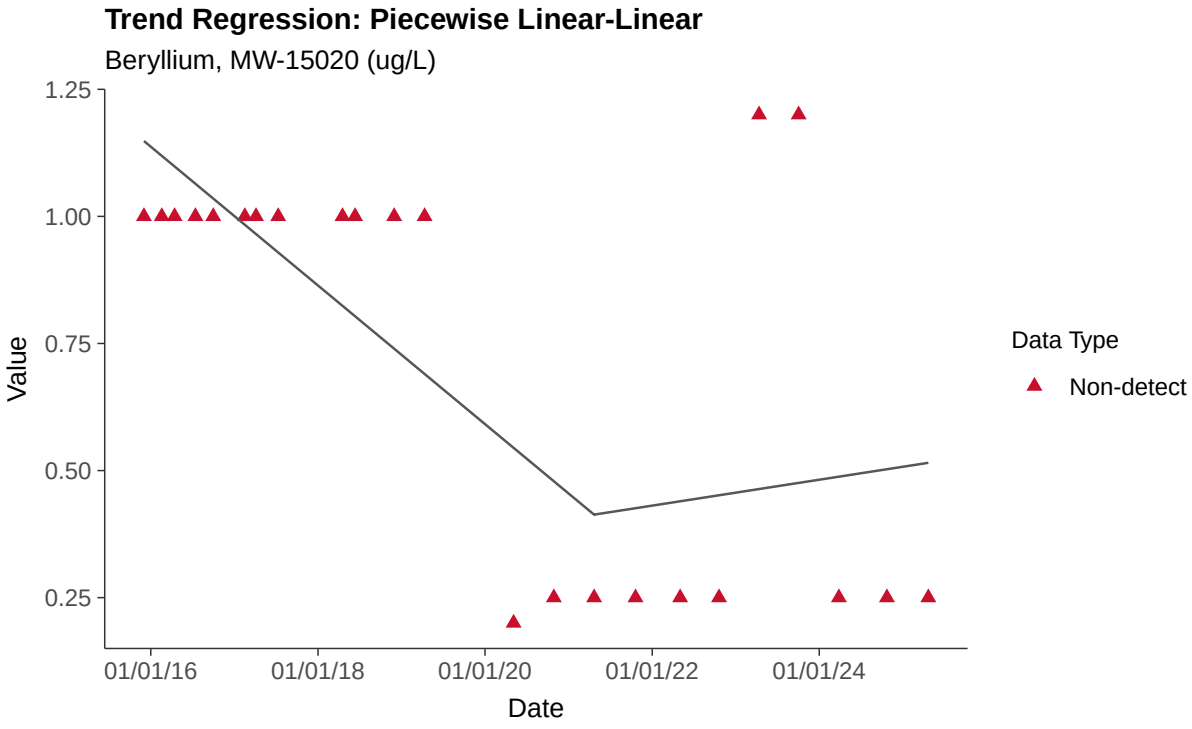
Beryllium, MW-15020 (ug/L)



Boxplot by Season

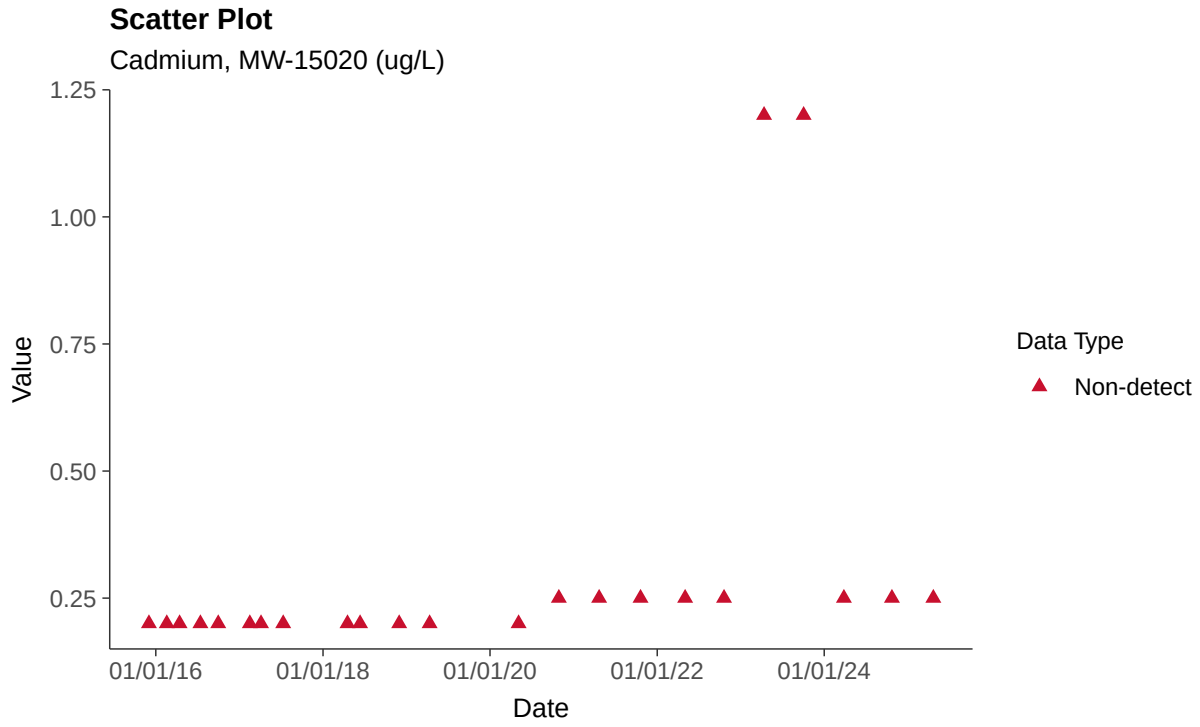
Beryllium, MW-15020 (ug/L)

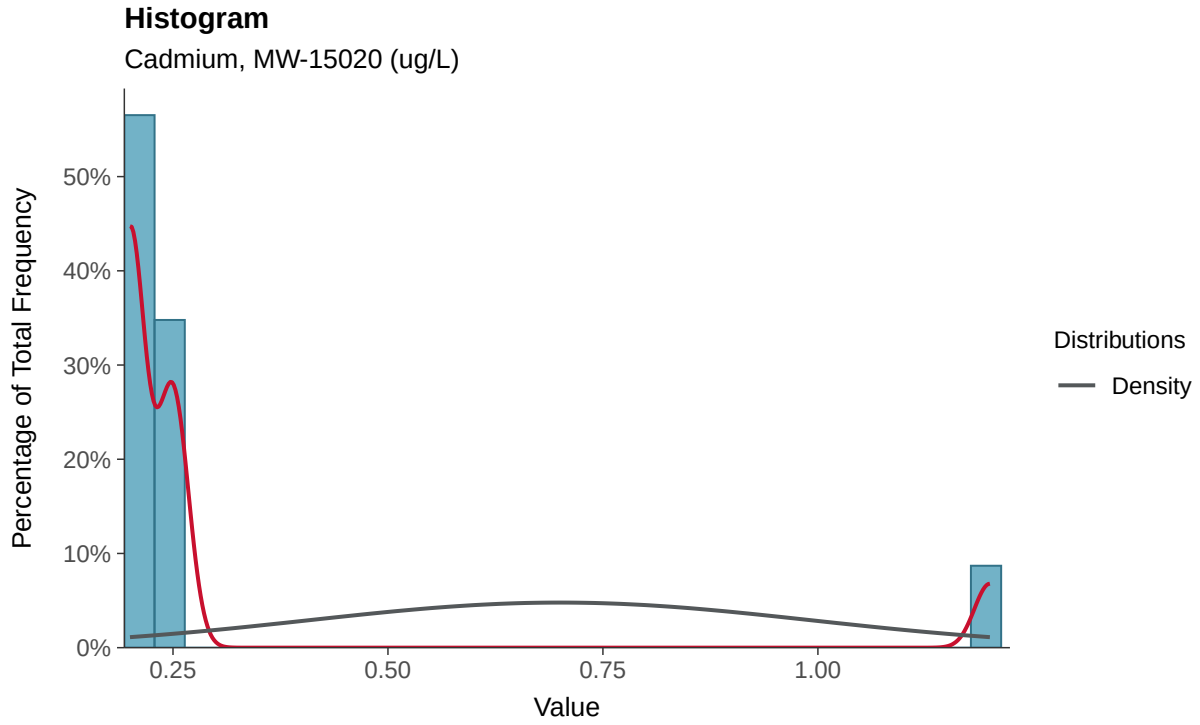



Trend Regression: Piecewise Linear-Linear
Beryllium, MW-15020 (ug/L)
Value
1.25
1.00
0.75
0.50
0.25
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Non-detect

Appendix IV: Cadmium, MW-15020

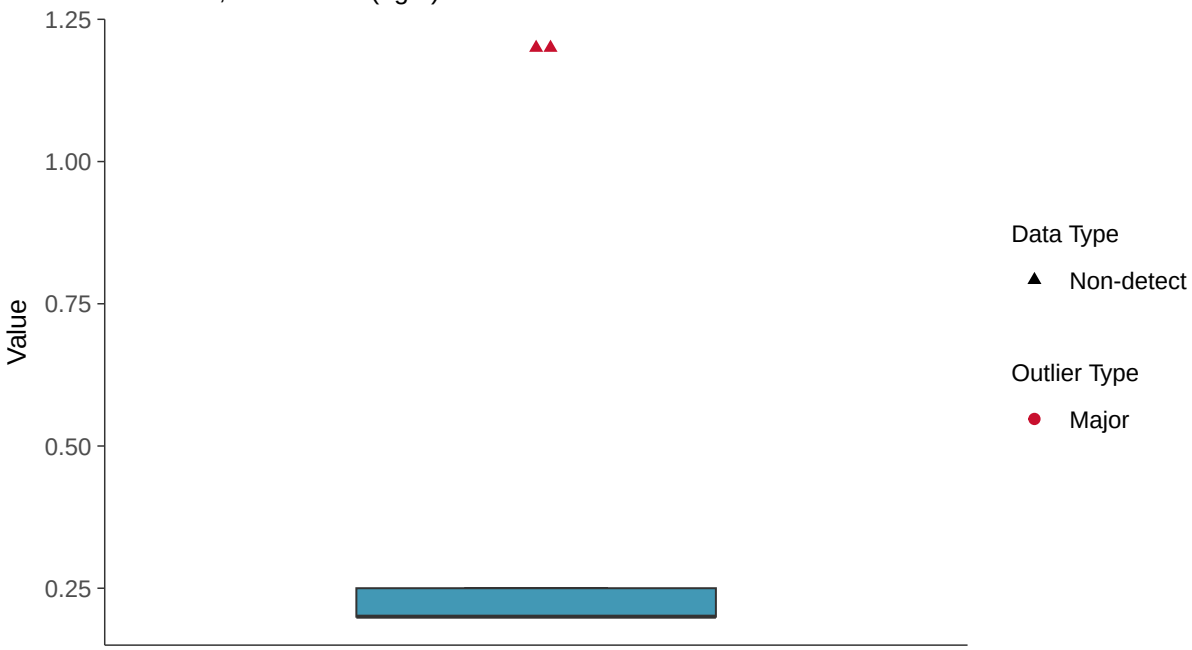
ID: 10_2_106





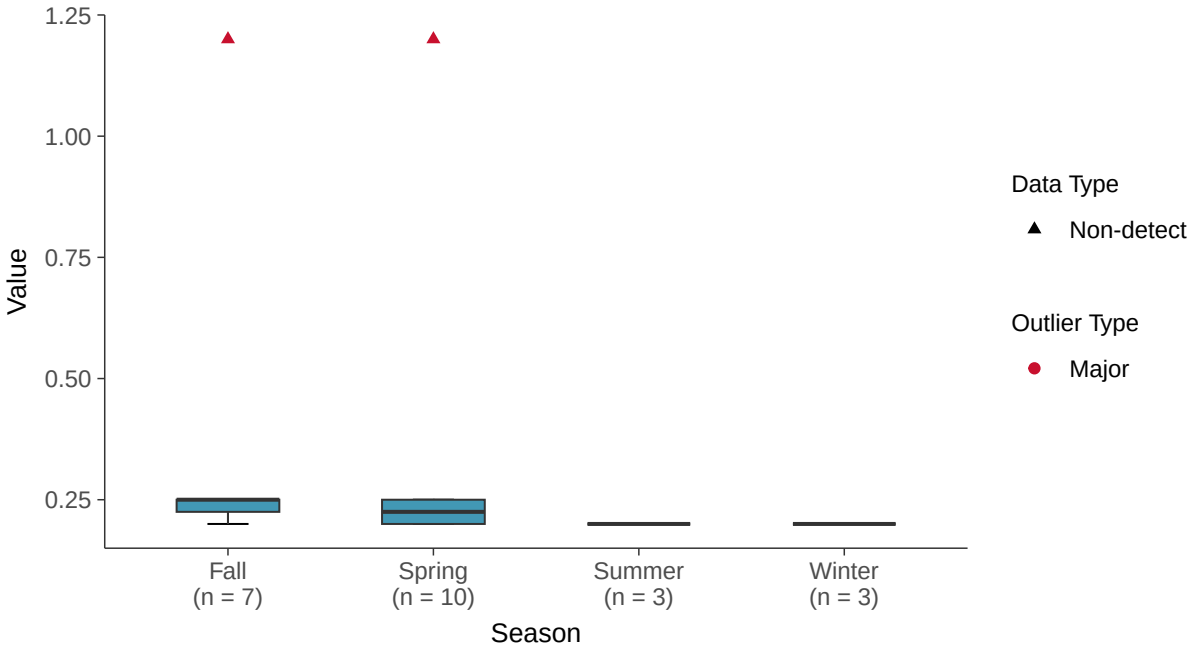
Boxplot

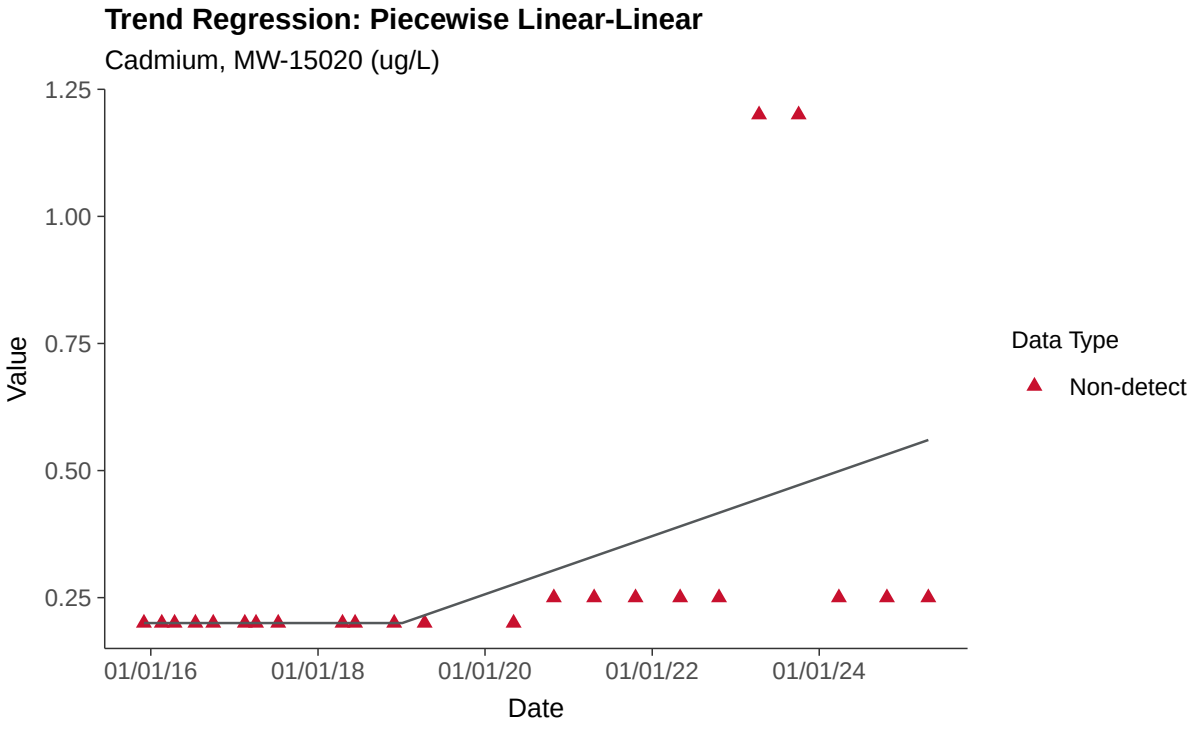
Cadmium, MW-15020 (ug/L)



Boxplot by Season

Cadmium, MW-15020 (ug/L)



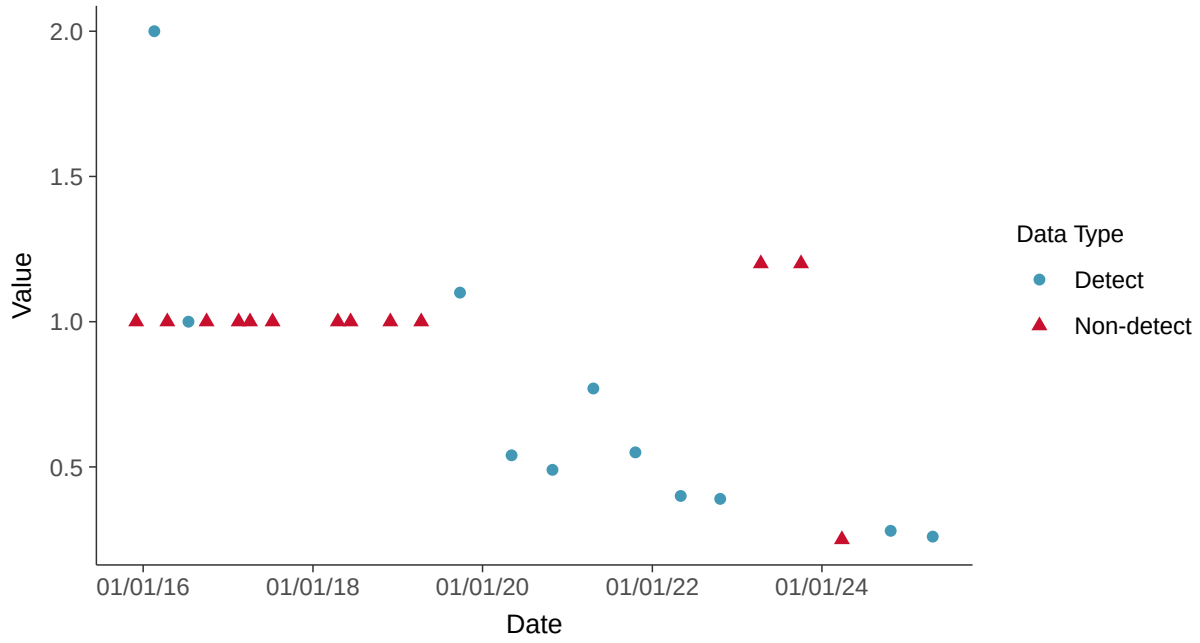

Trend Regression: Piecewise Linear-Linear
Cadmium, MW-15020 (ug/L)
1.25
1.00
0.75
0.50
0.25
Value
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Non-detect

Appendix IV: Chromium, MW-15020

ID: 10_2_109

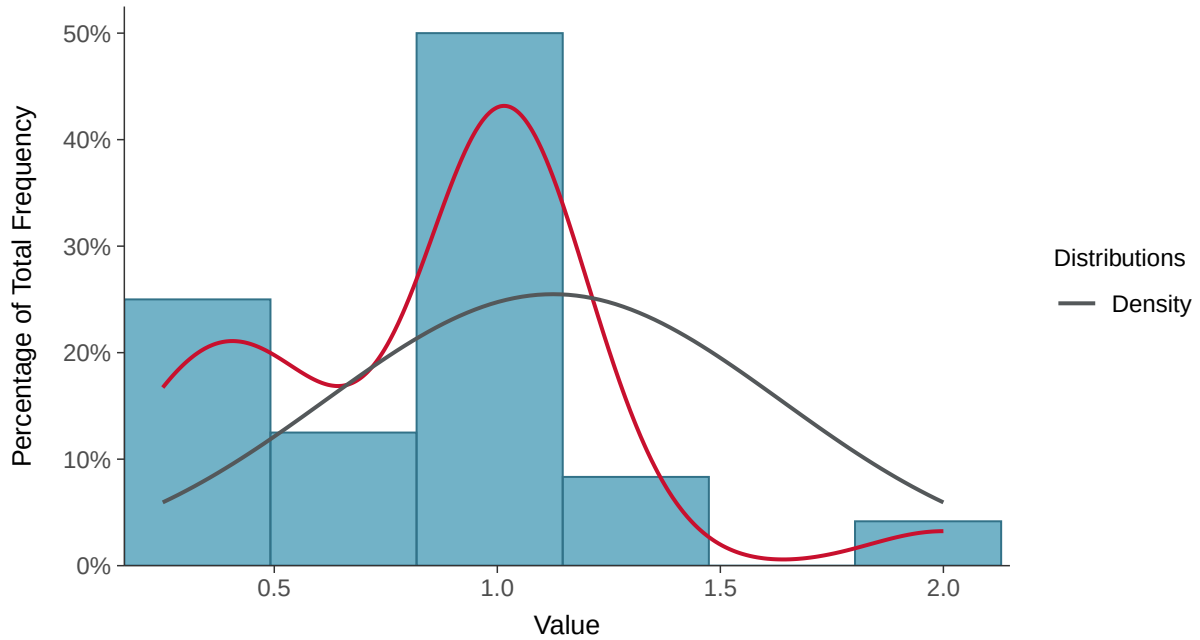
Scatter Plot

Chromium, MW-15020 (ug/L)



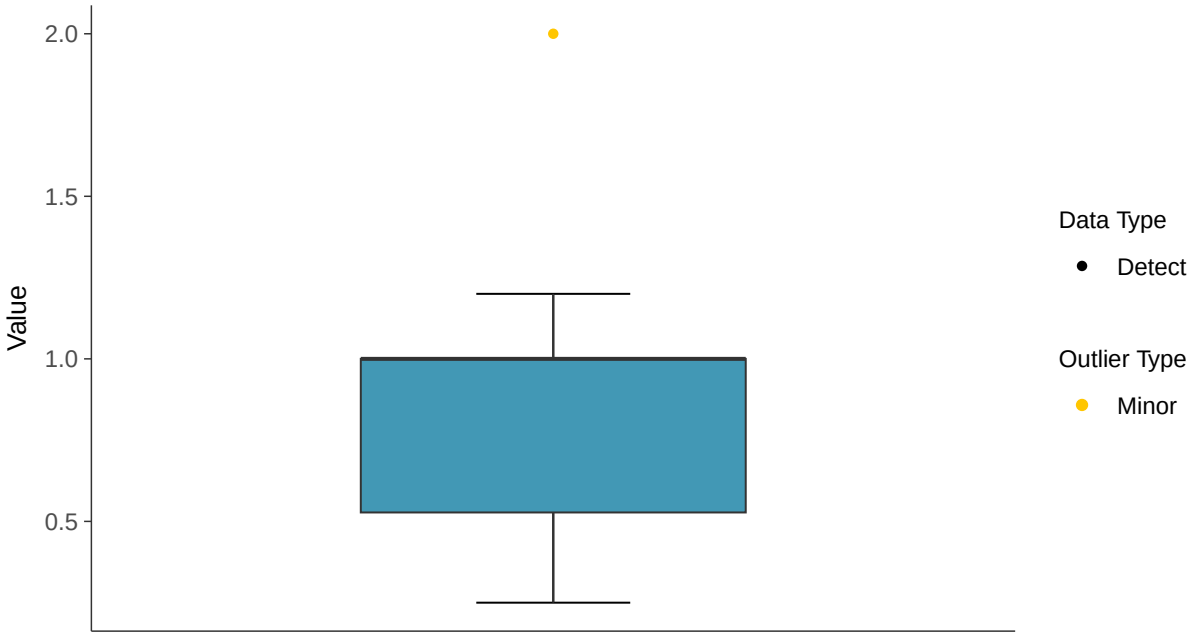
Histogram

Chromium, MW-15020 (ug/L)



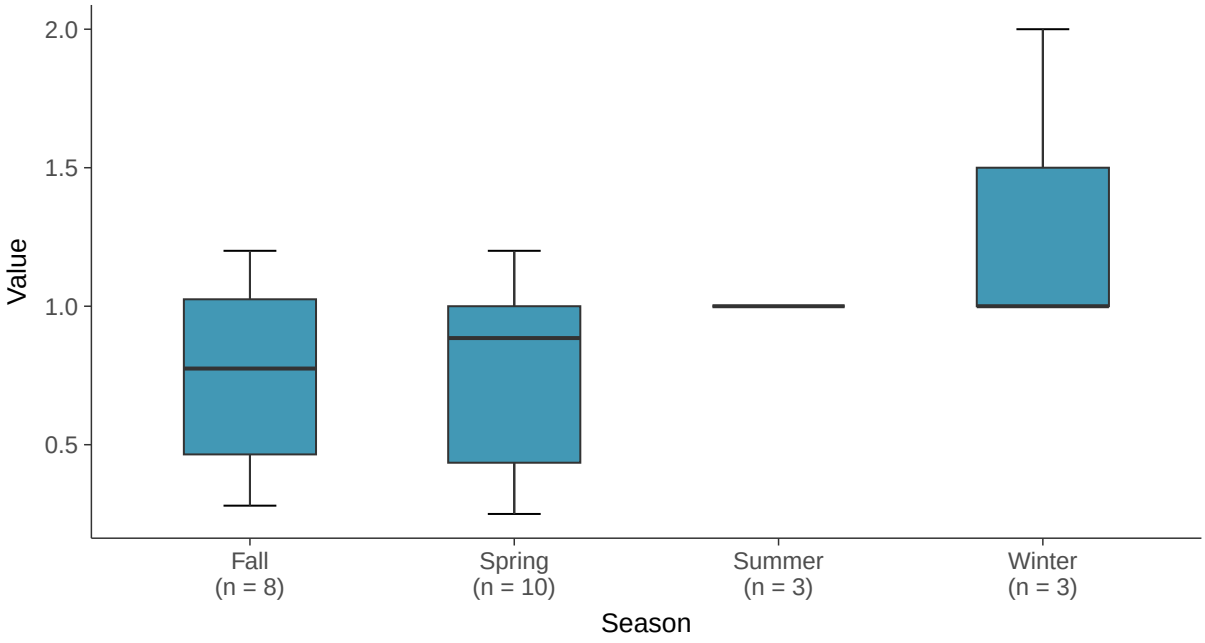
Boxplot

Chromium, MW-15020 (ug/L)



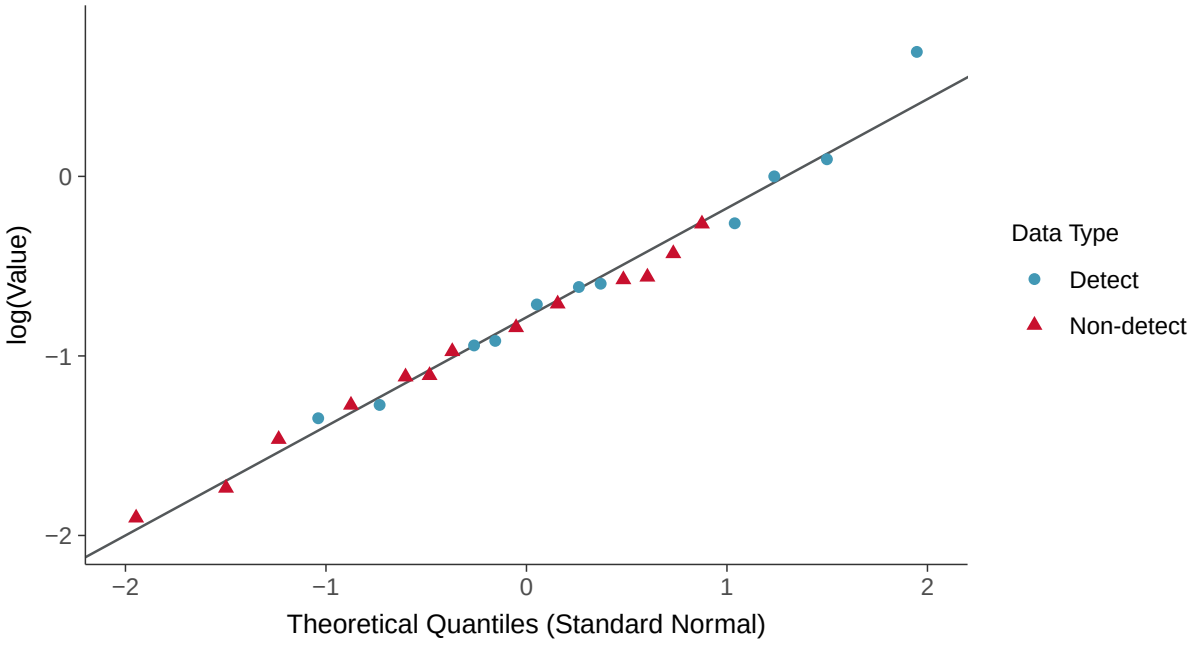
Boxplot by Season

Chromium, MW-15020 (ug/L)



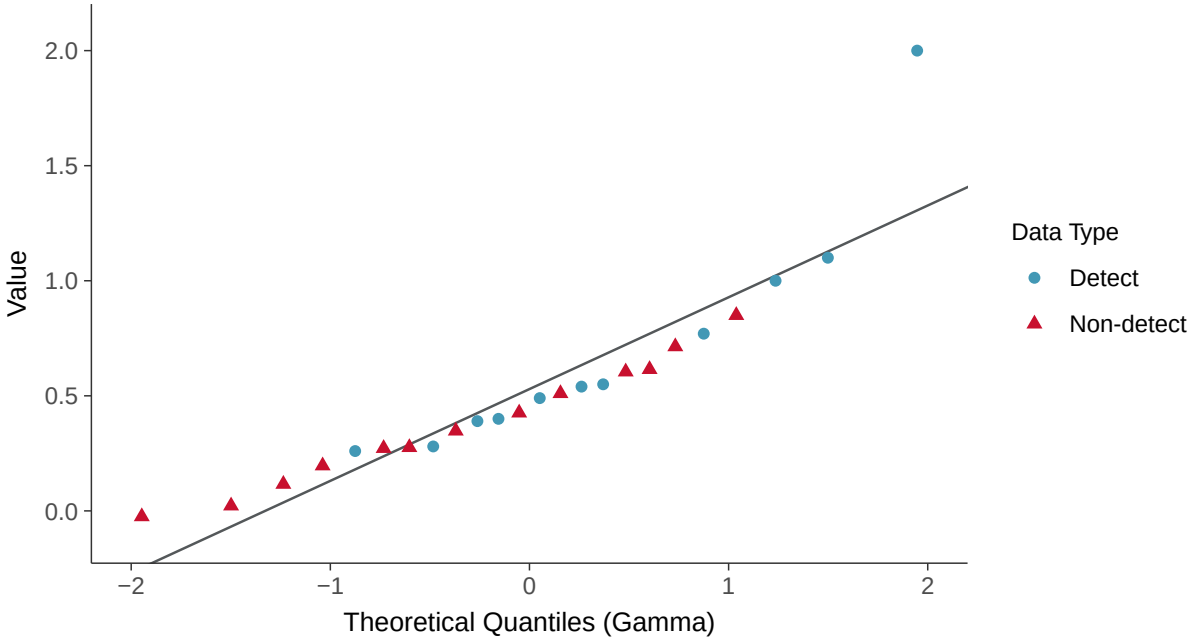
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15020 (ug/L)



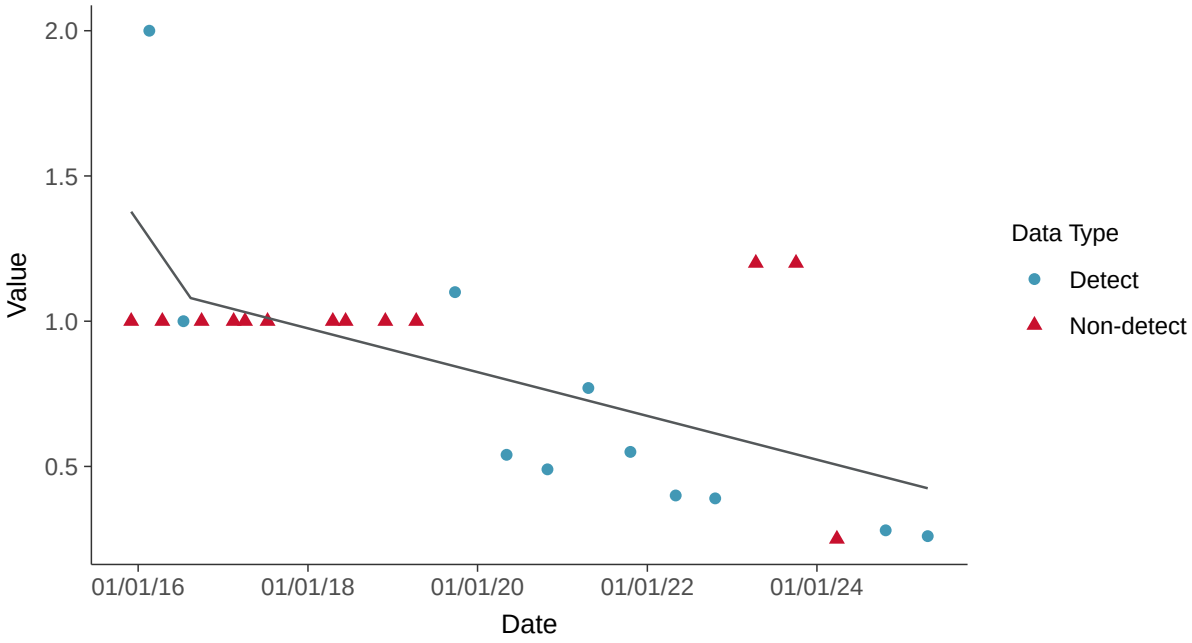
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, MW-15020 (ug/L)



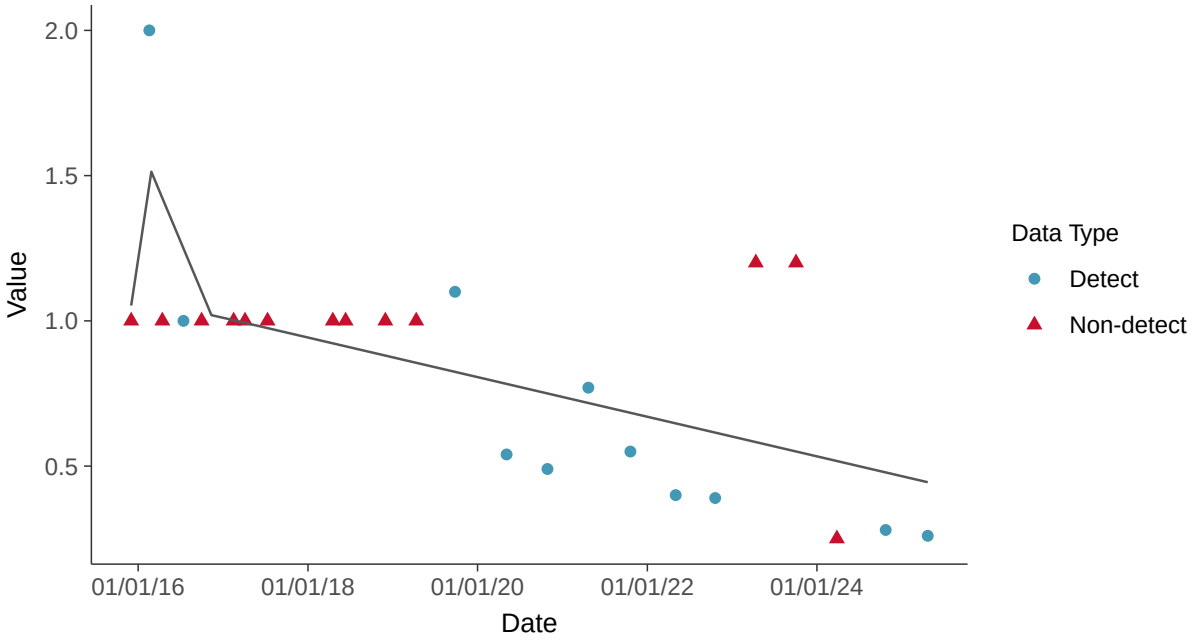
Trend Regression: Piecewise Linear-Linear

Chromium, MW-15020 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, MW-15020 (ug/L)

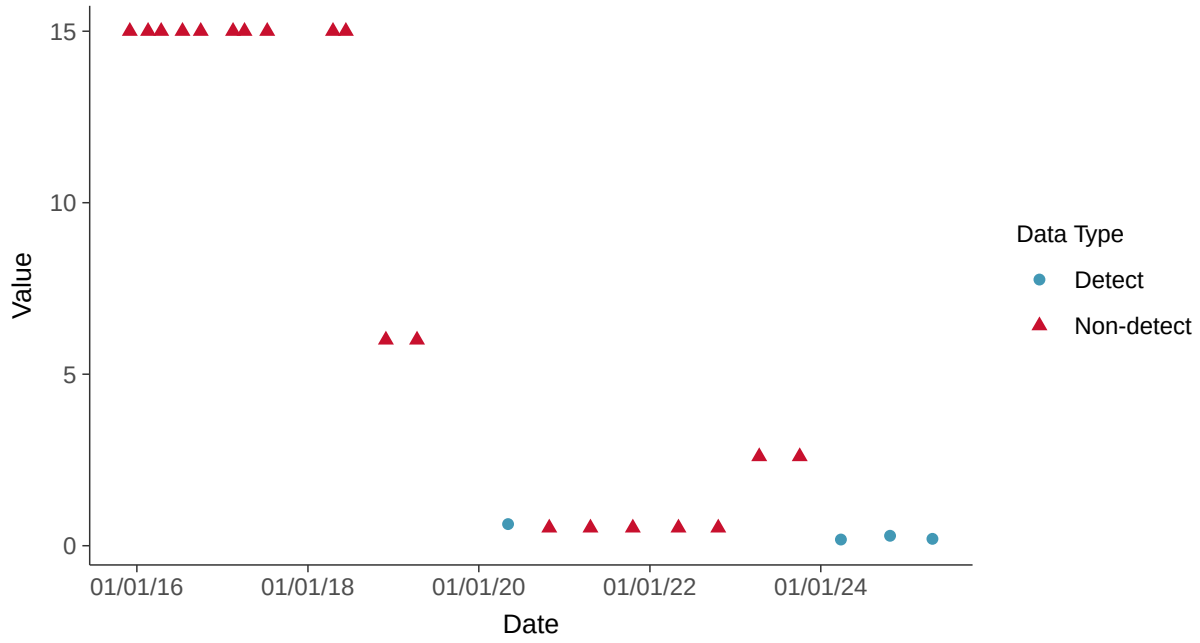


Appendix IV: Cobalt, MW-15020

ID: 10_2_110

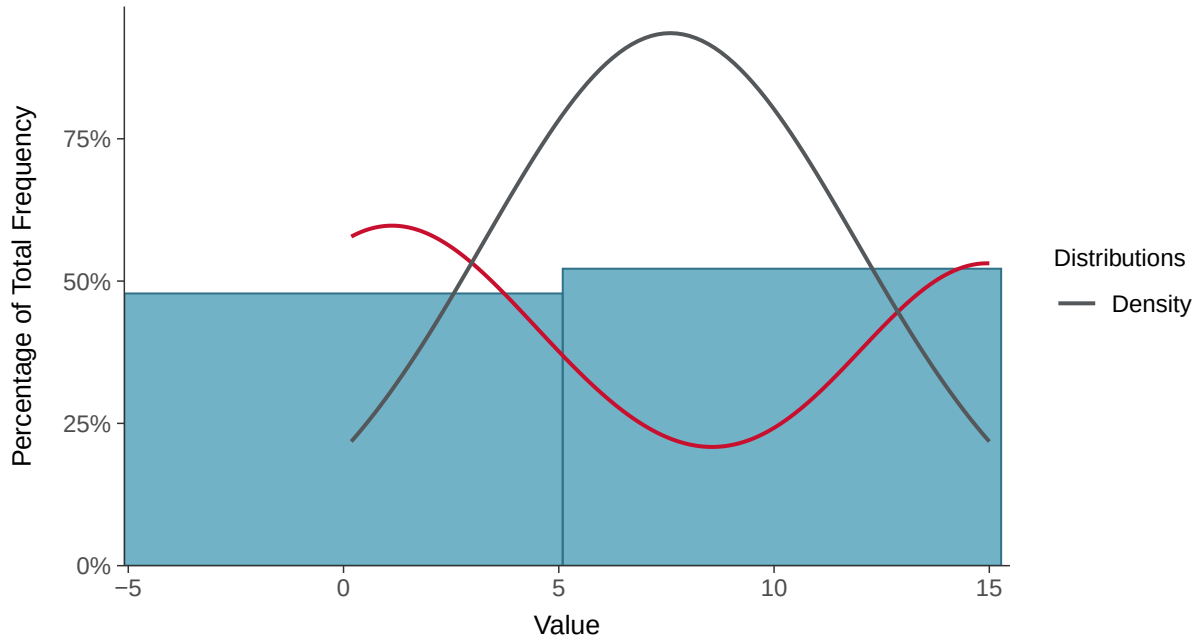
Scatter Plot

Cobalt, MW-15020 (ug/L)



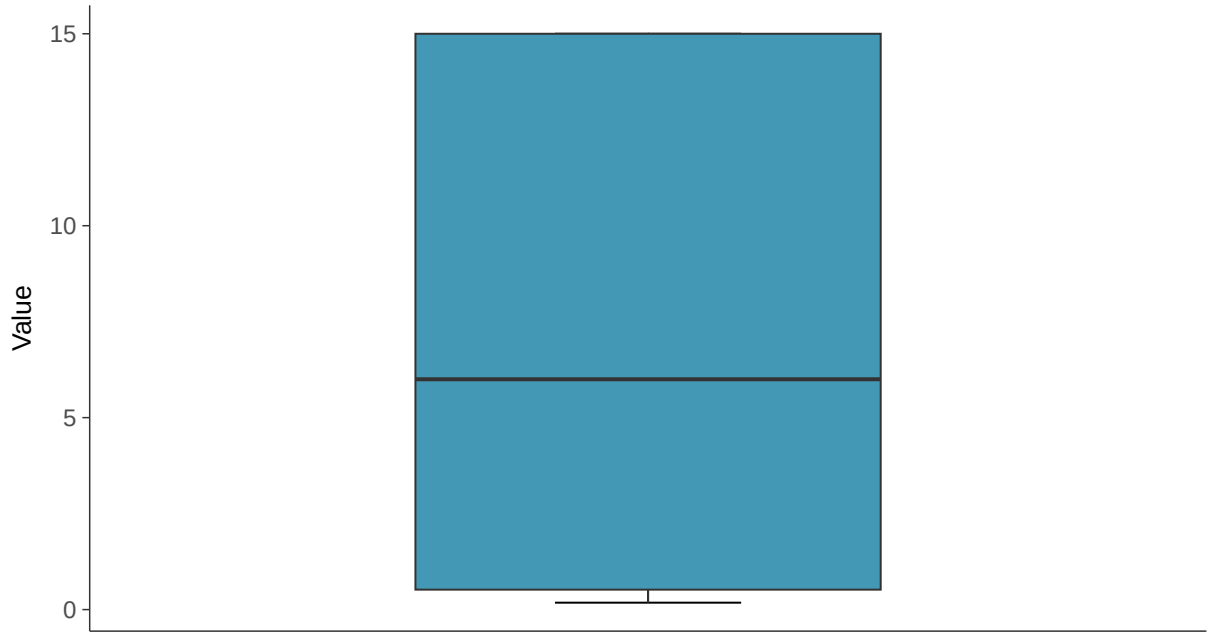
Histogram

Cobalt, MW-15020 (ug/L)



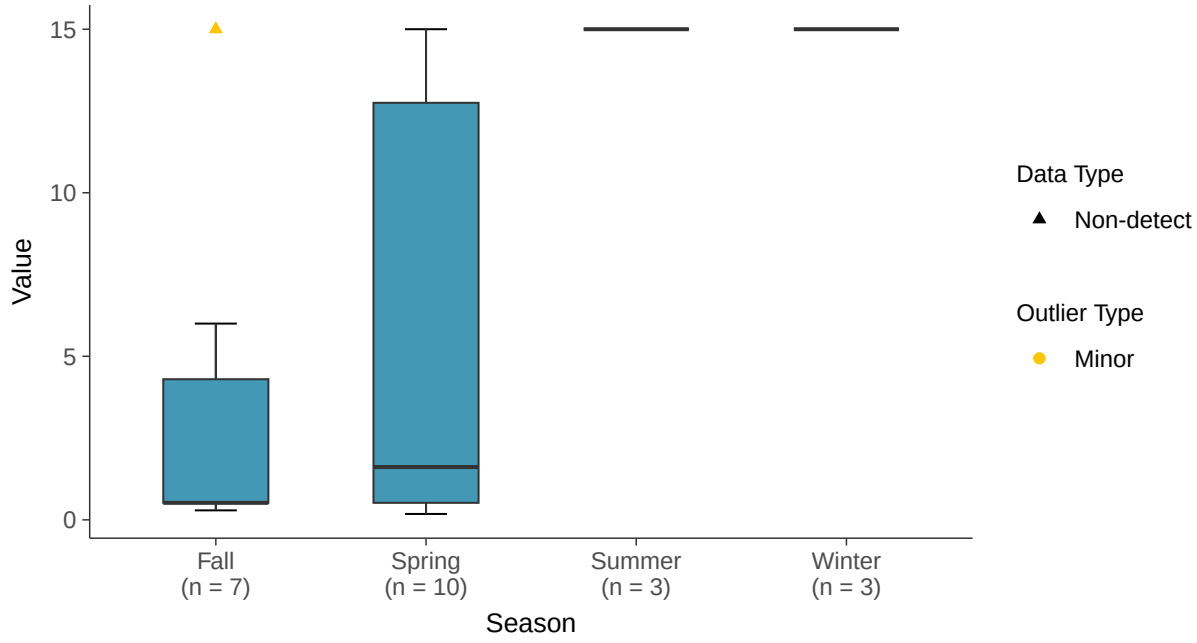
Boxplot

Cobalt, MW-15020 (ug/L)



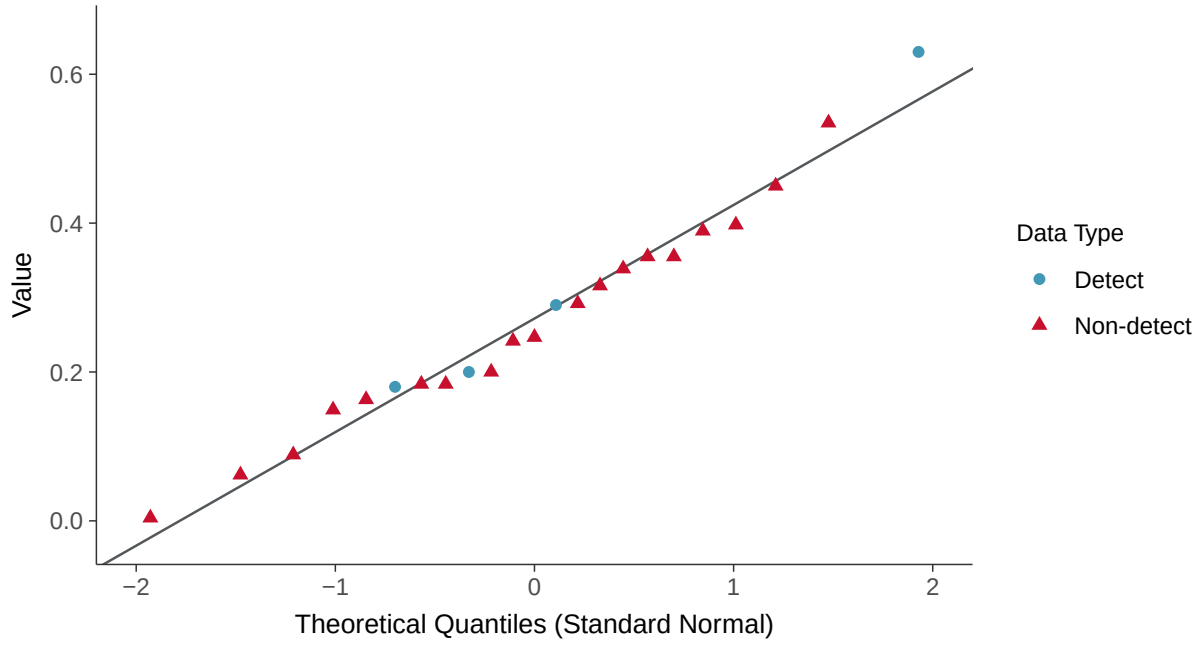
Boxplot by Season

Cobalt, MW-15020 (ug/L)



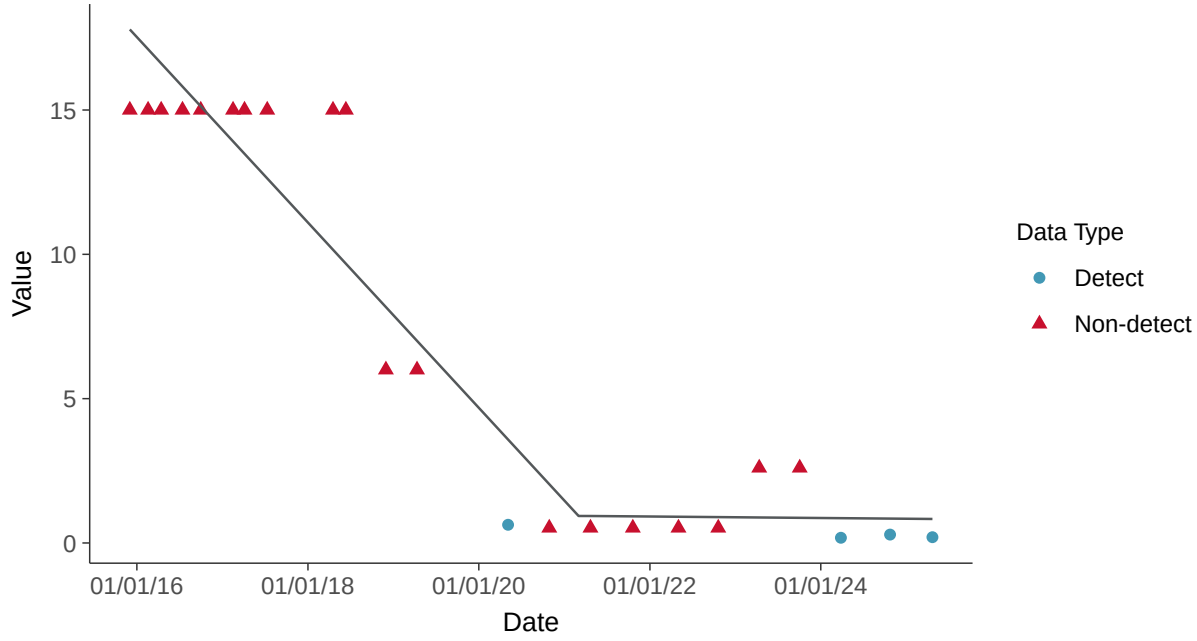
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15020 (ug/L)



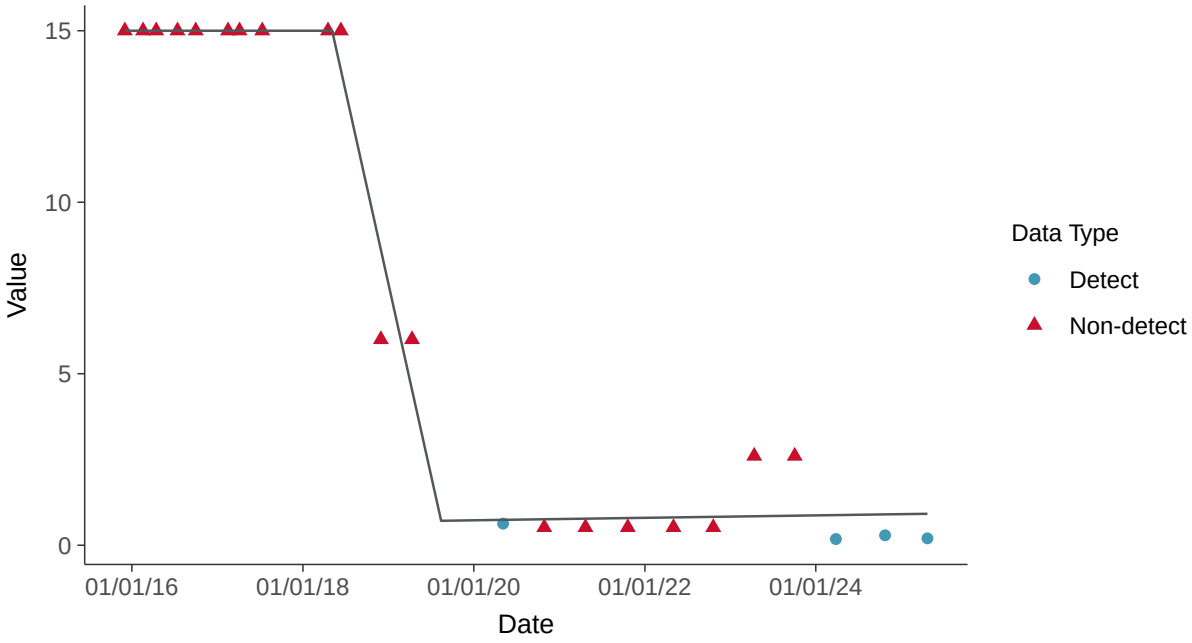
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15020 (ug/L)



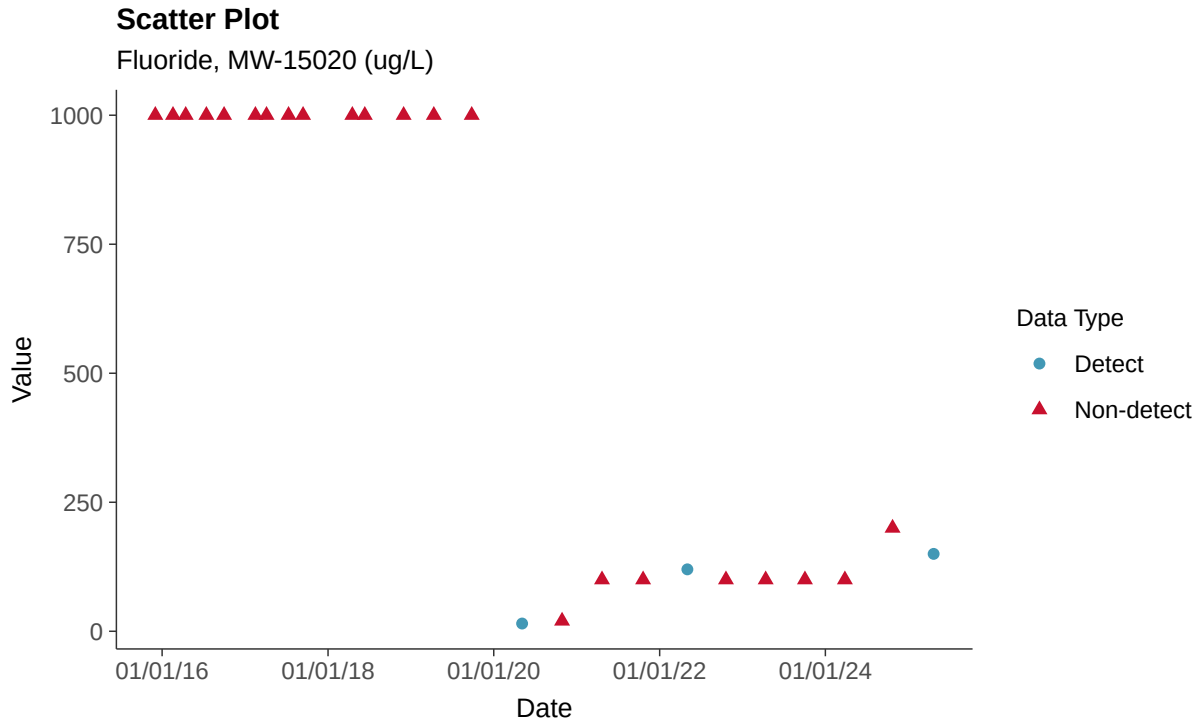
Trend Regression: Piecewise Linear-Linear-Linear

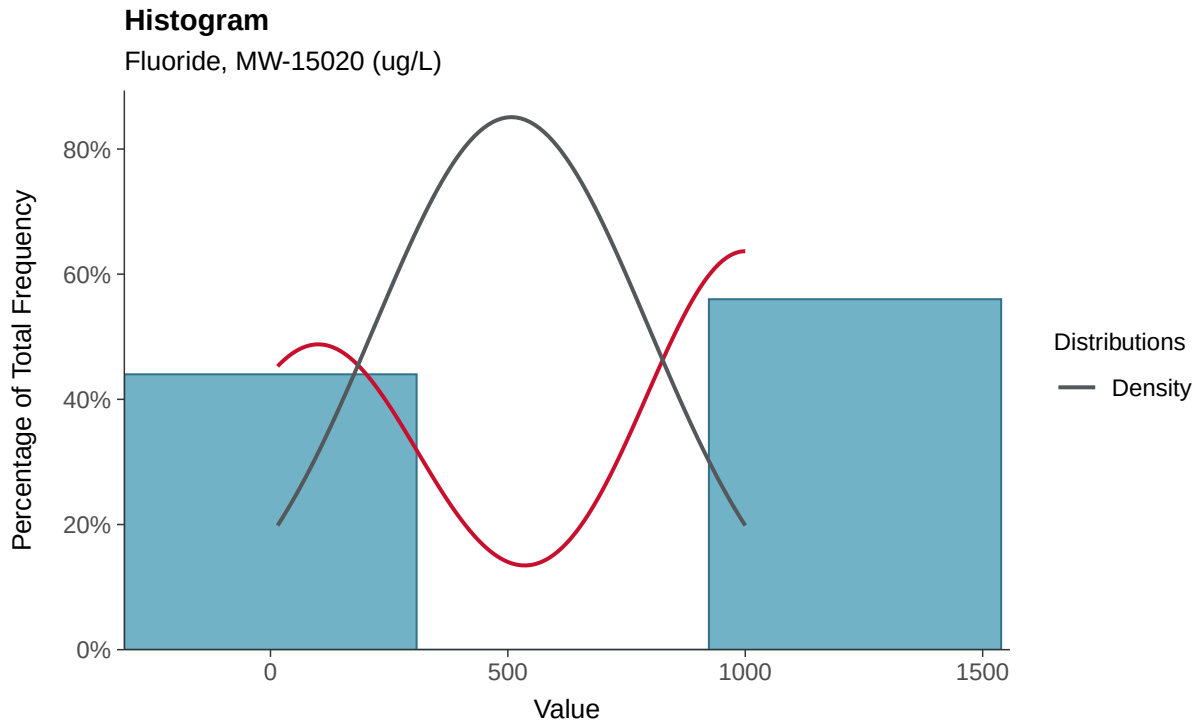
Cobalt, MW-15020 (ug/L)



Appendix IV: Fluoride, MW-15020

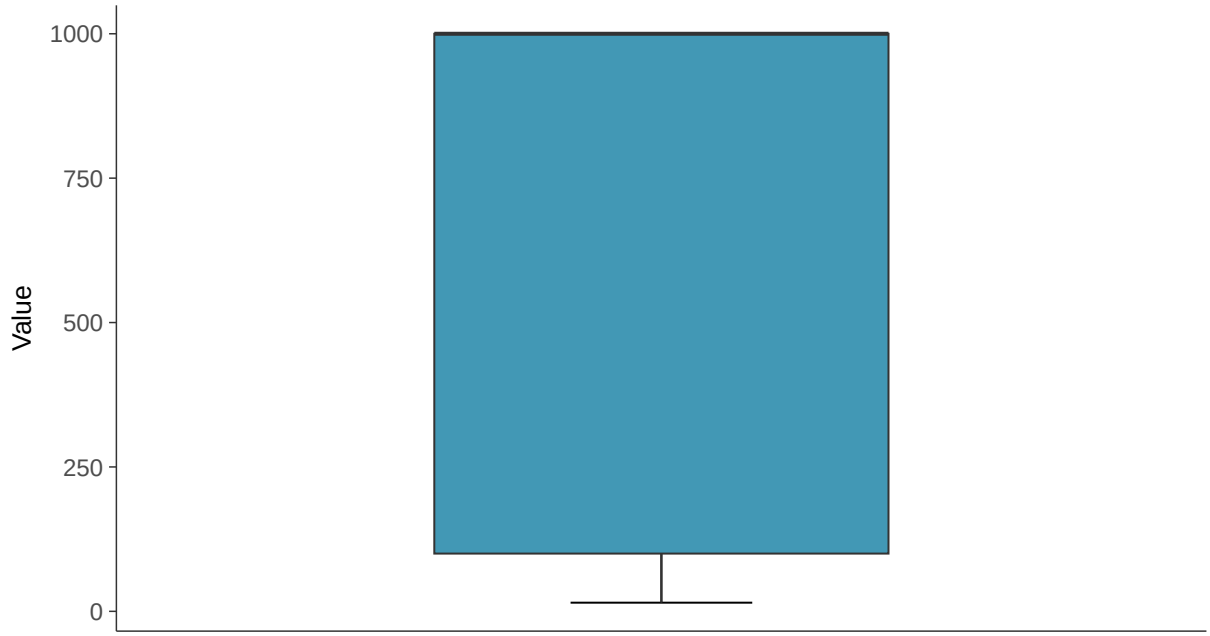
ID: 10_2_114





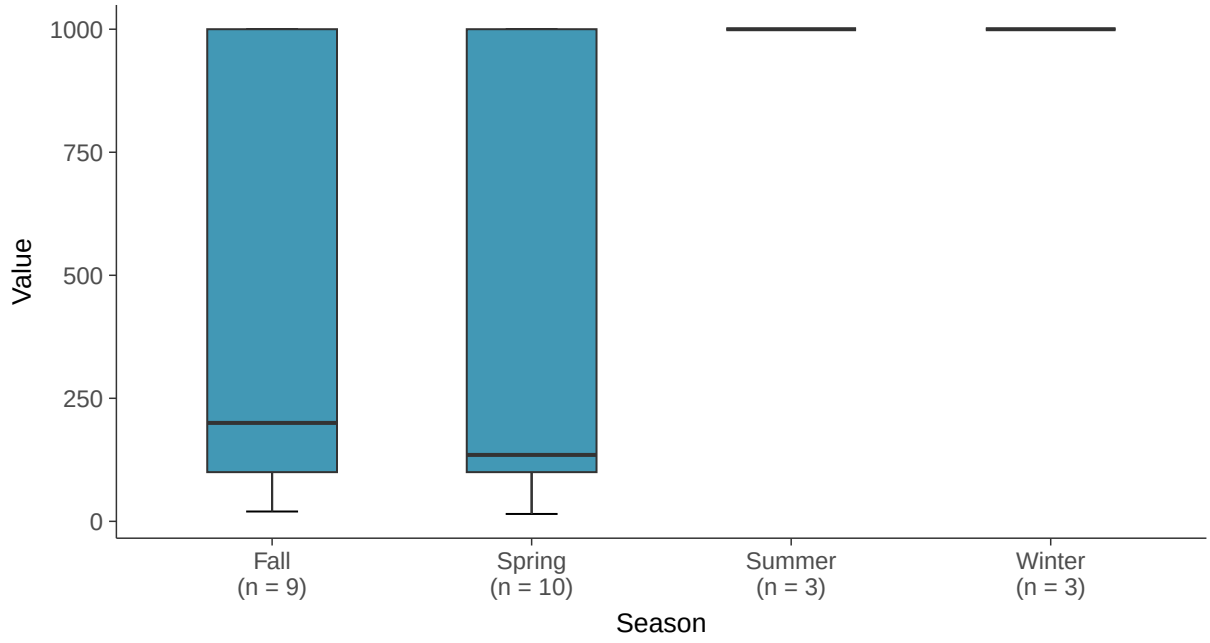
Boxplot

Fluoride, MW-15020 (ug/L)



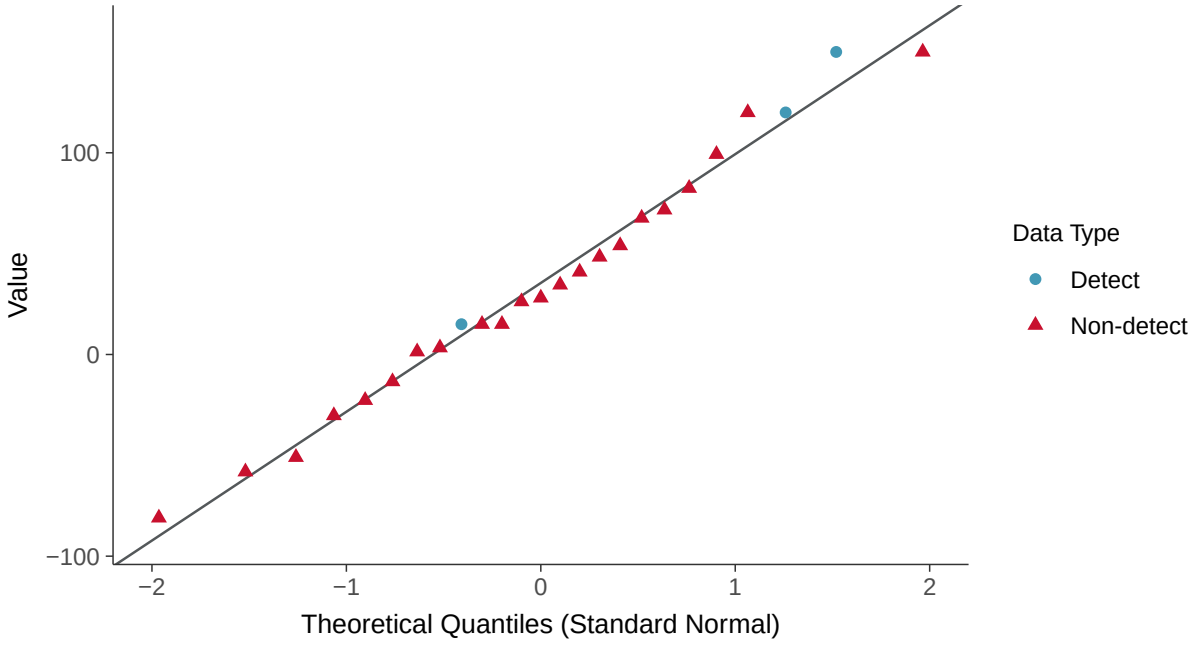
Boxplot by Season

Fluoride, MW-15020 (ug/L)



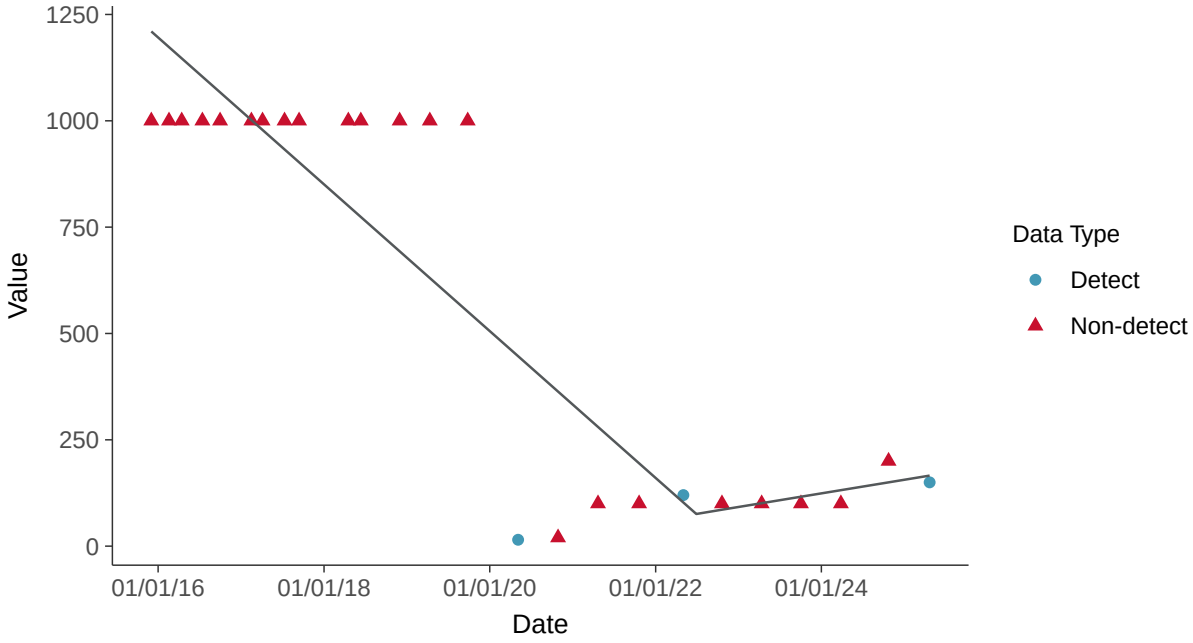
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15020 (ug/L)



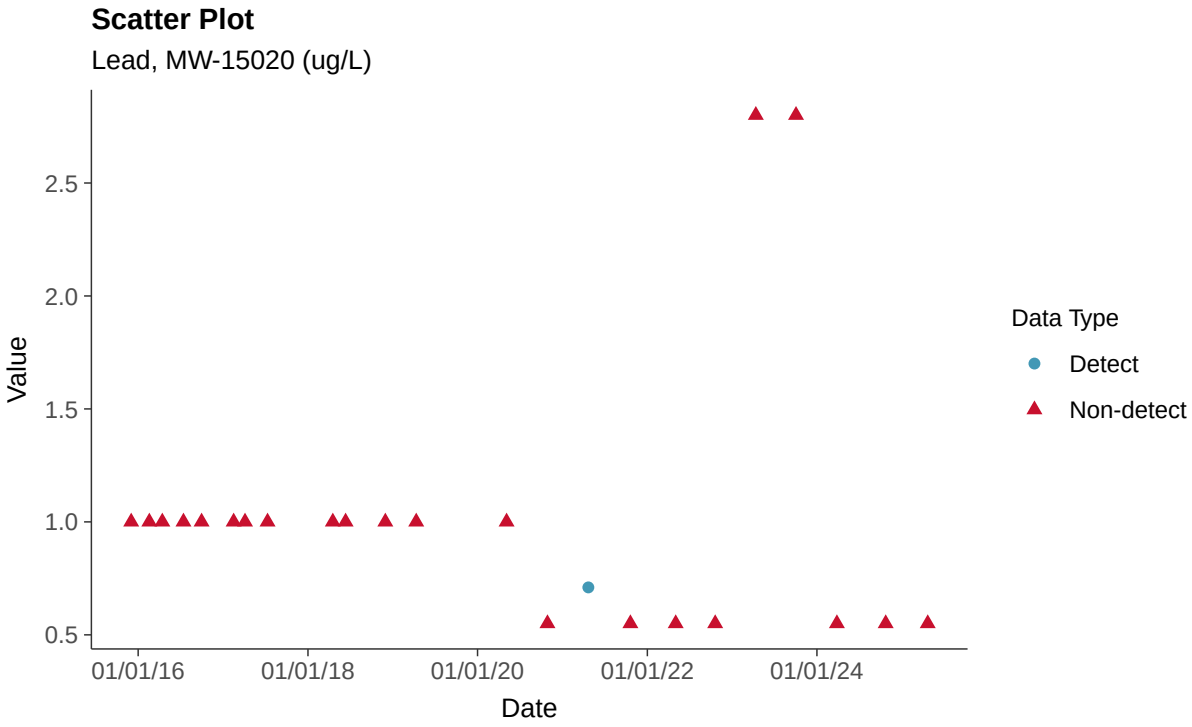
Trend Regression: Piecewise Linear-Linear

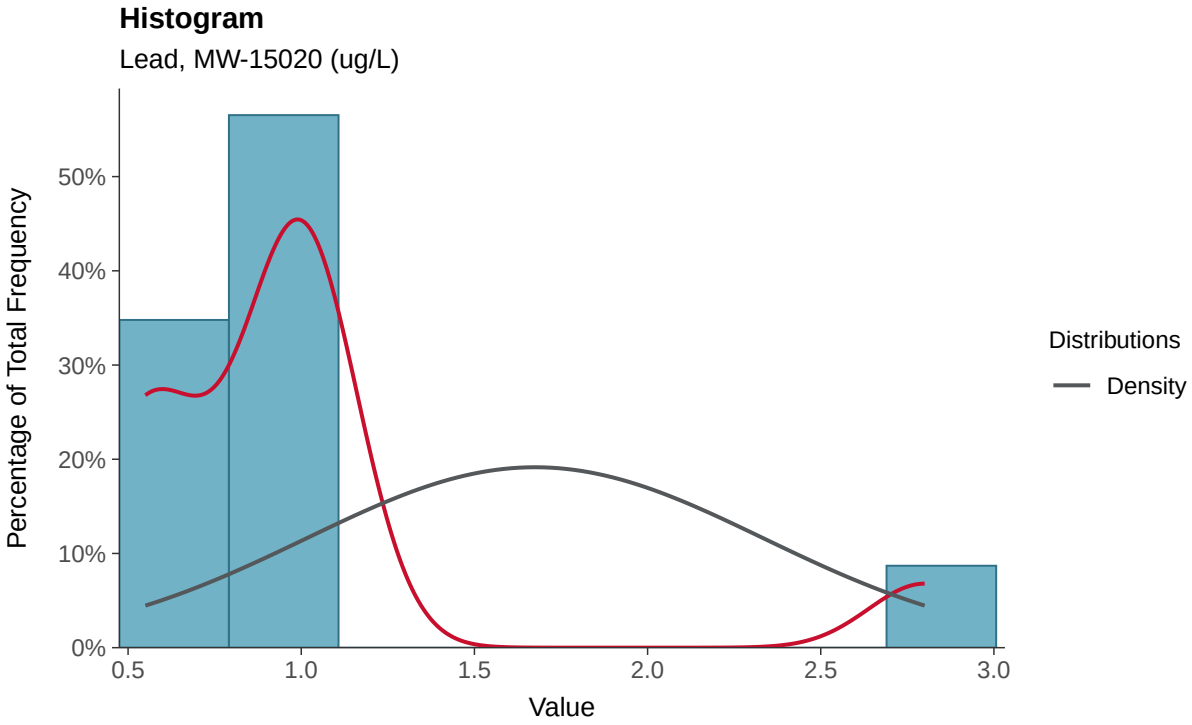
Fluoride, MW-15020 (ug/L)



Appendix IV: Lead, MW-15020

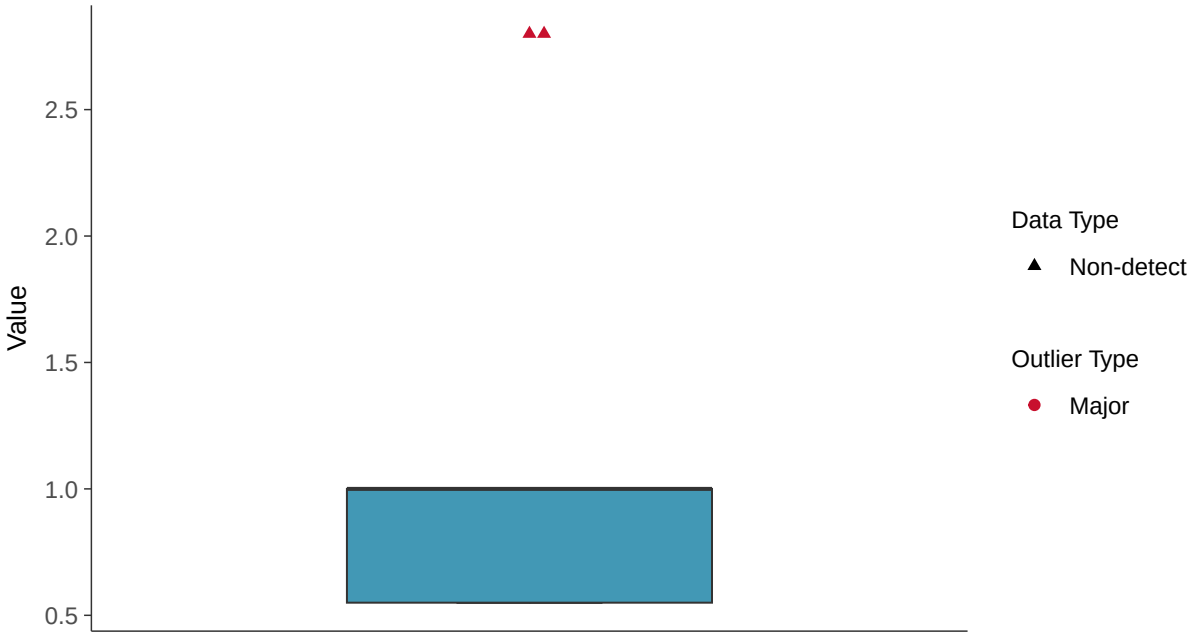
ID: 10_2_116





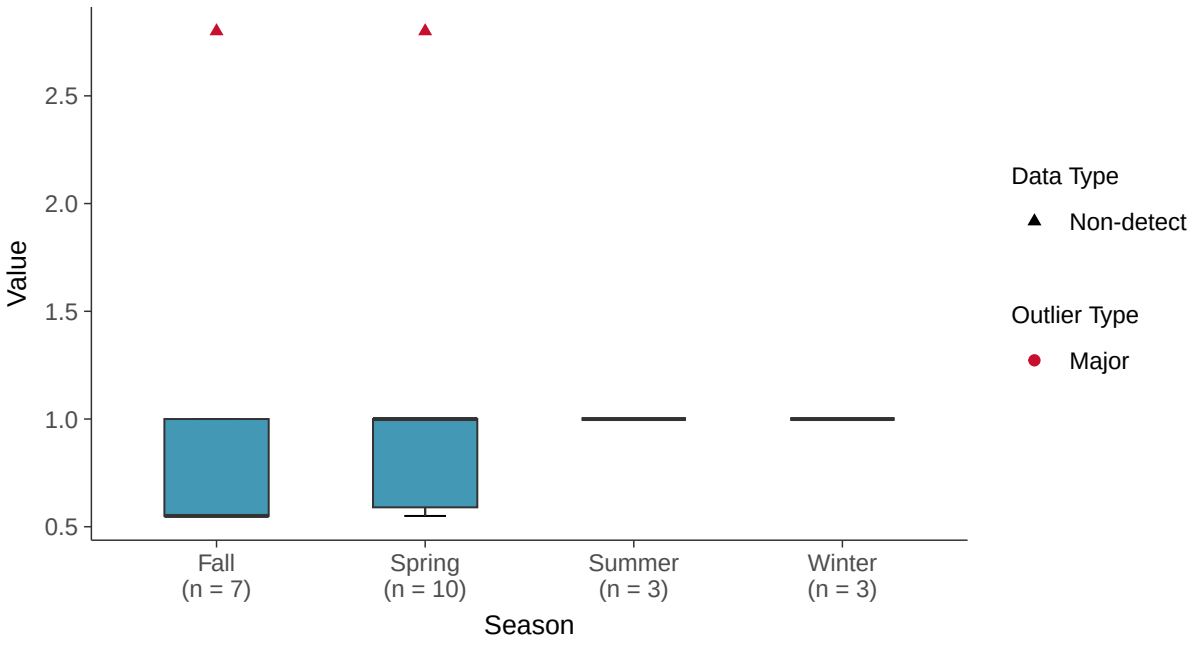
Boxplot

Lead, MW-15020 (ug/L)



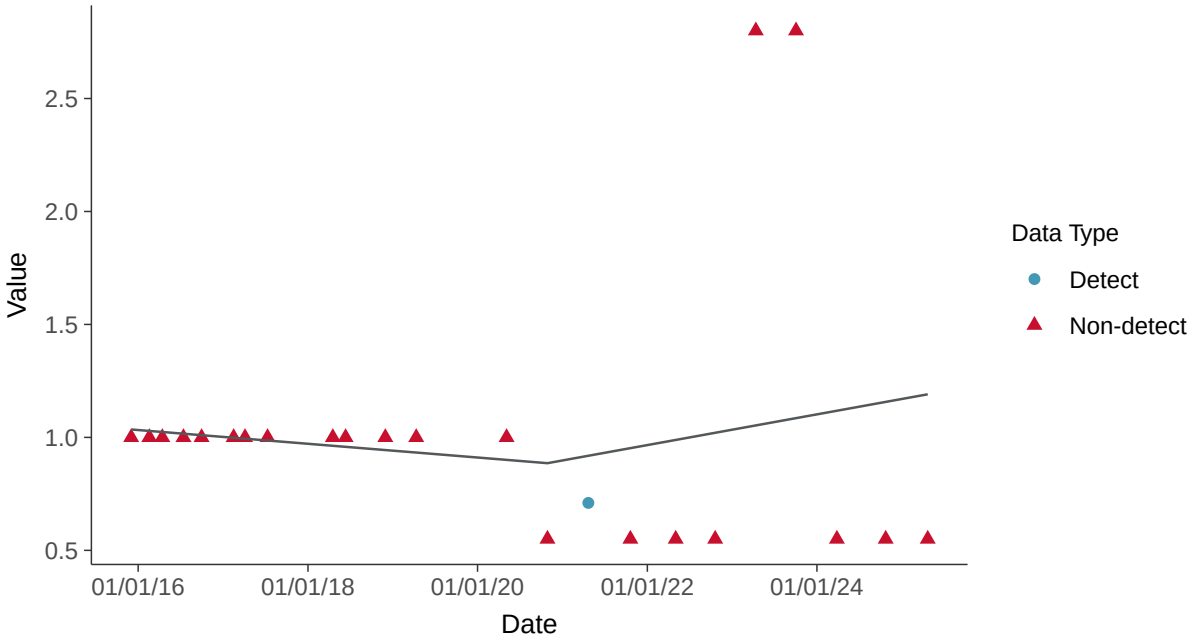
Boxplot by Season

Lead, MW-15020 (ug/L)



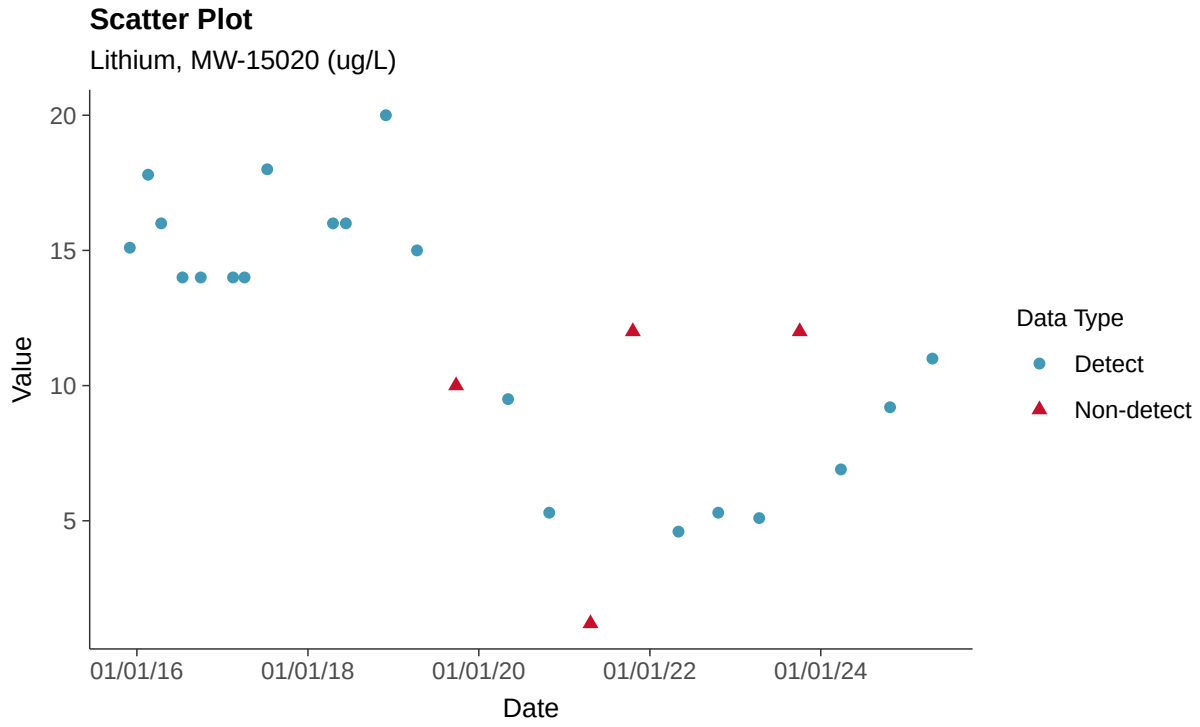
Trend Regression: Piecewise Linear-Linear

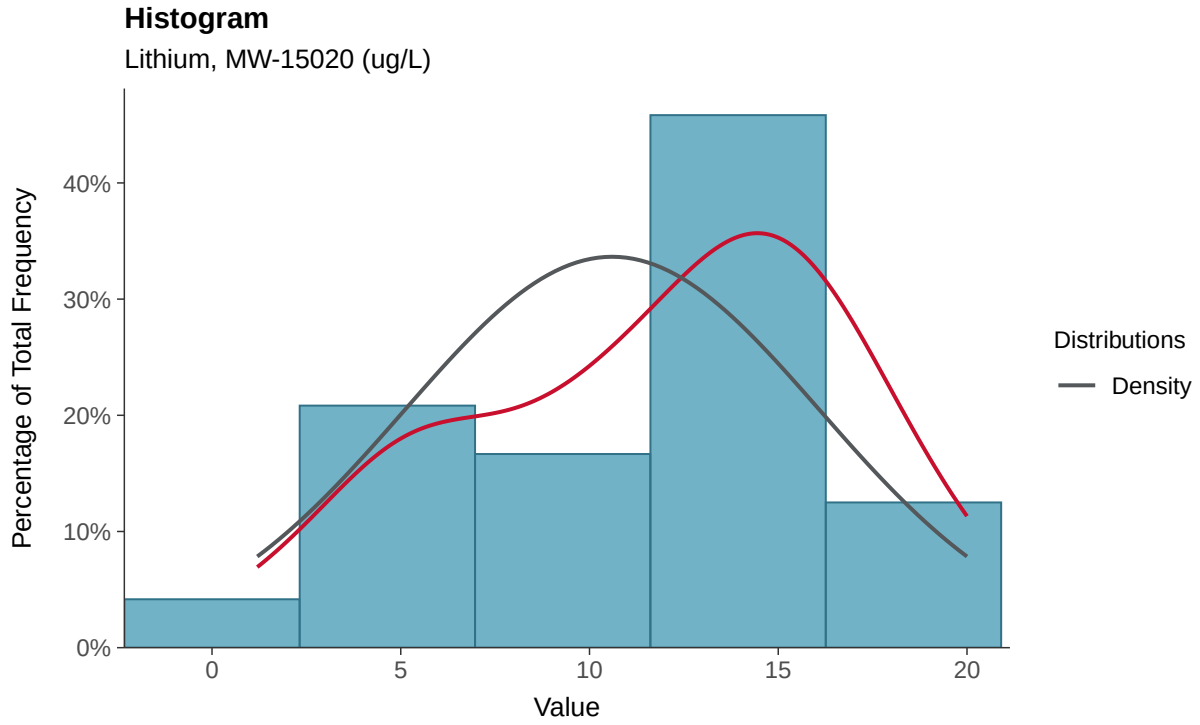
Lead, MW-15020 (ug/L)



Appendix IV: Lithium, MW-15020

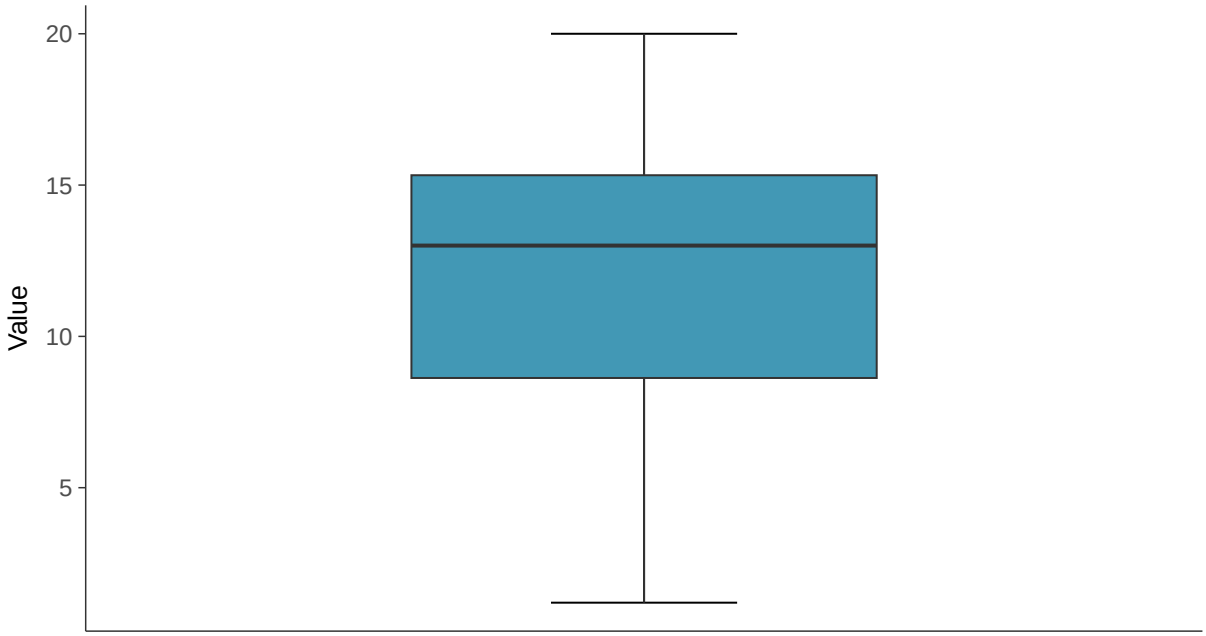
ID: 10_2_117





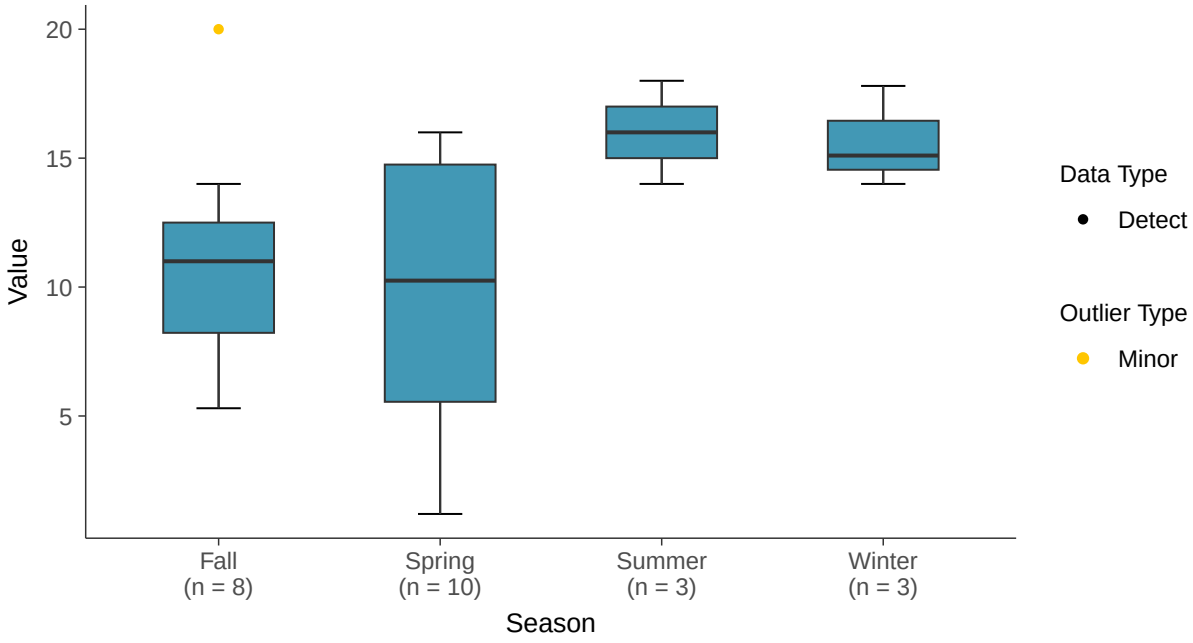
Boxplot

Lithium, MW-15020 (ug/L)



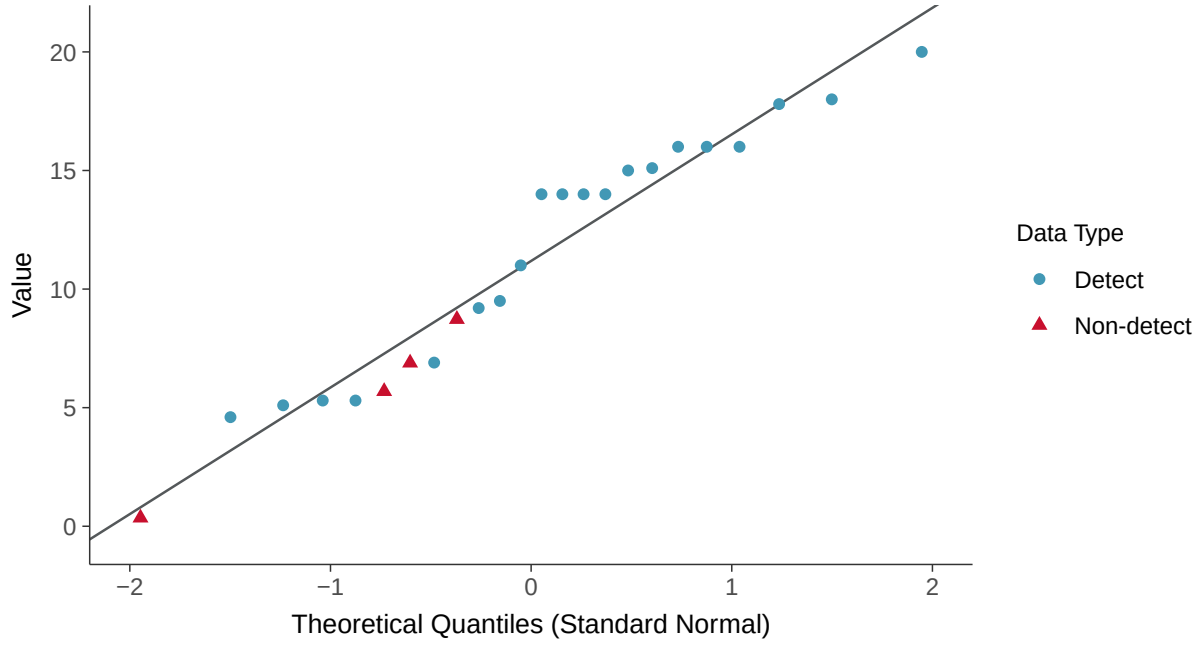
Boxplot by Season

Lithium, MW-15020 (ug/L)



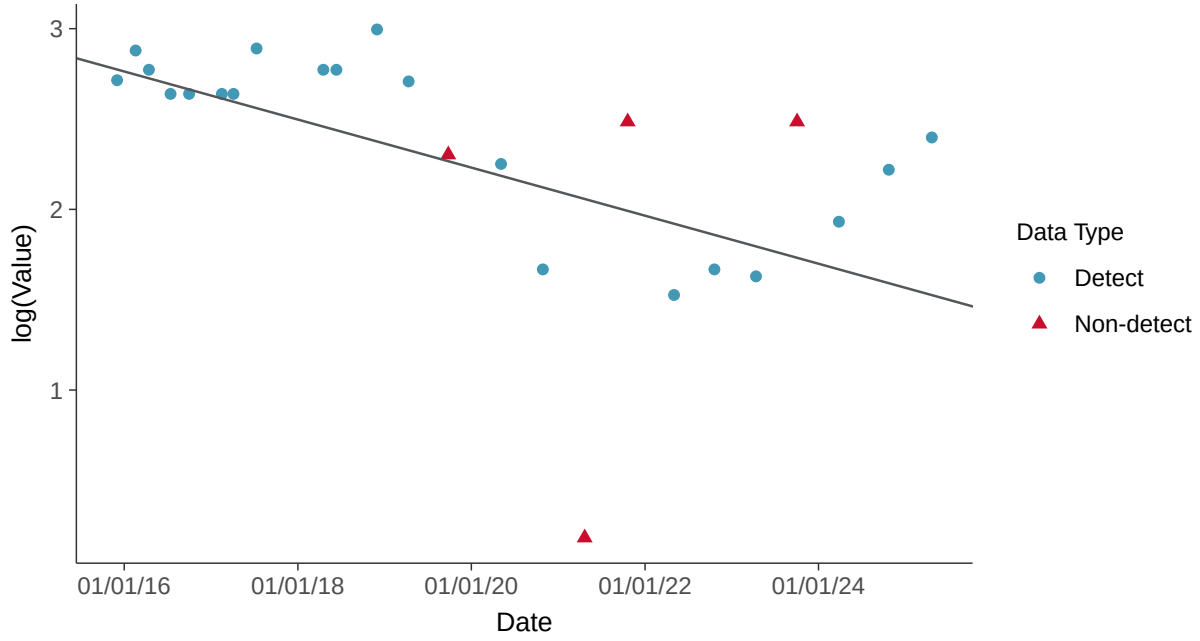
Normal Q-Q plot using ROS Imputed Estimates

Lithium, MW-15020 (ug/L)



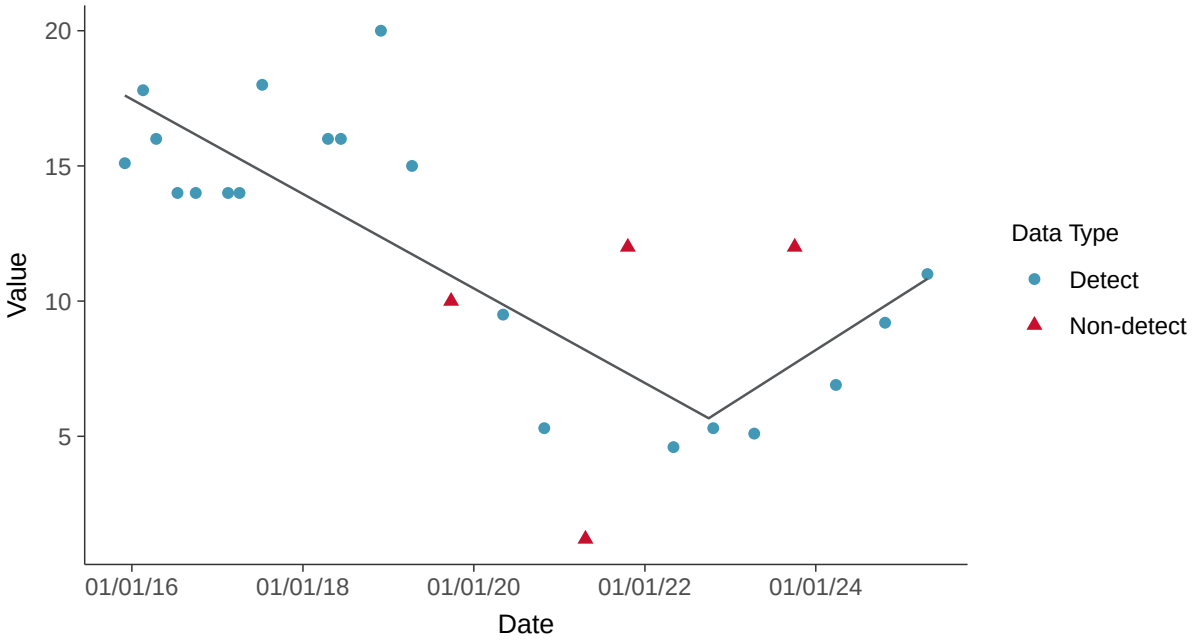
Trend Regression: Lognormal MLE

Lithium, MW-15020 (ug/L)



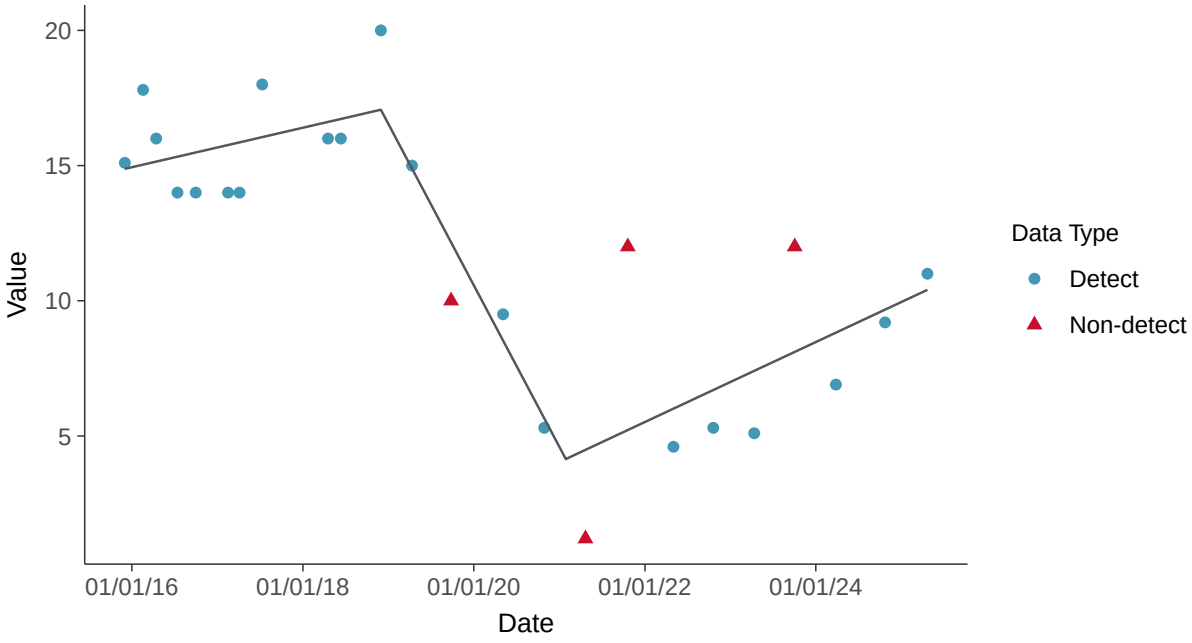
Trend Regression: Piecewise Linear-Linear

Lithium, MW-15020 (ug/L)



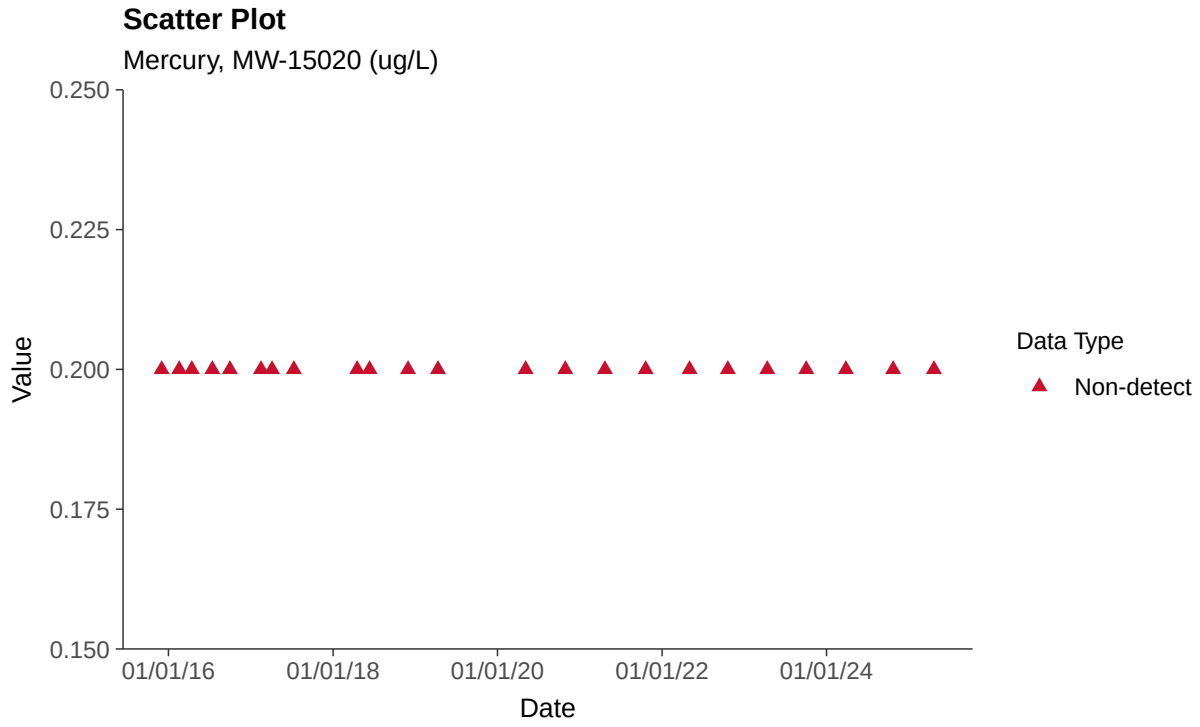
Trend Regression: Piecewise Linear-Linear-Linear

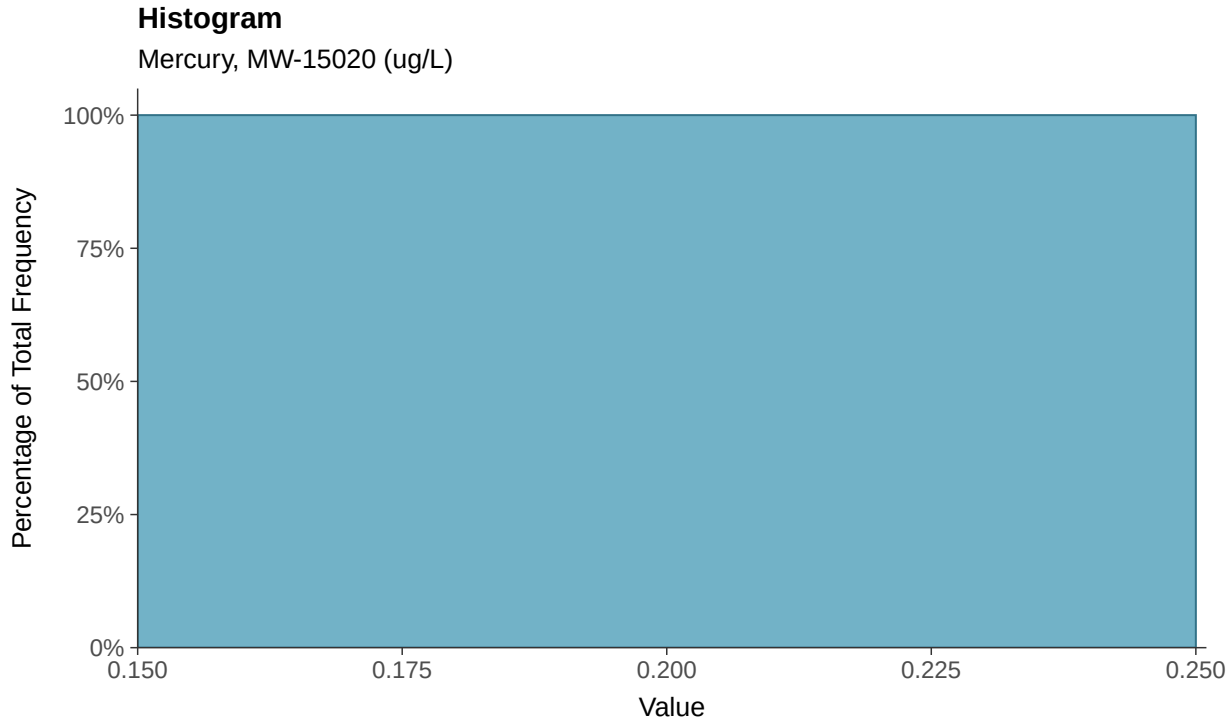
Lithium, MW-15020 (ug/L)



Appendix IV: Mercury, MW-15020

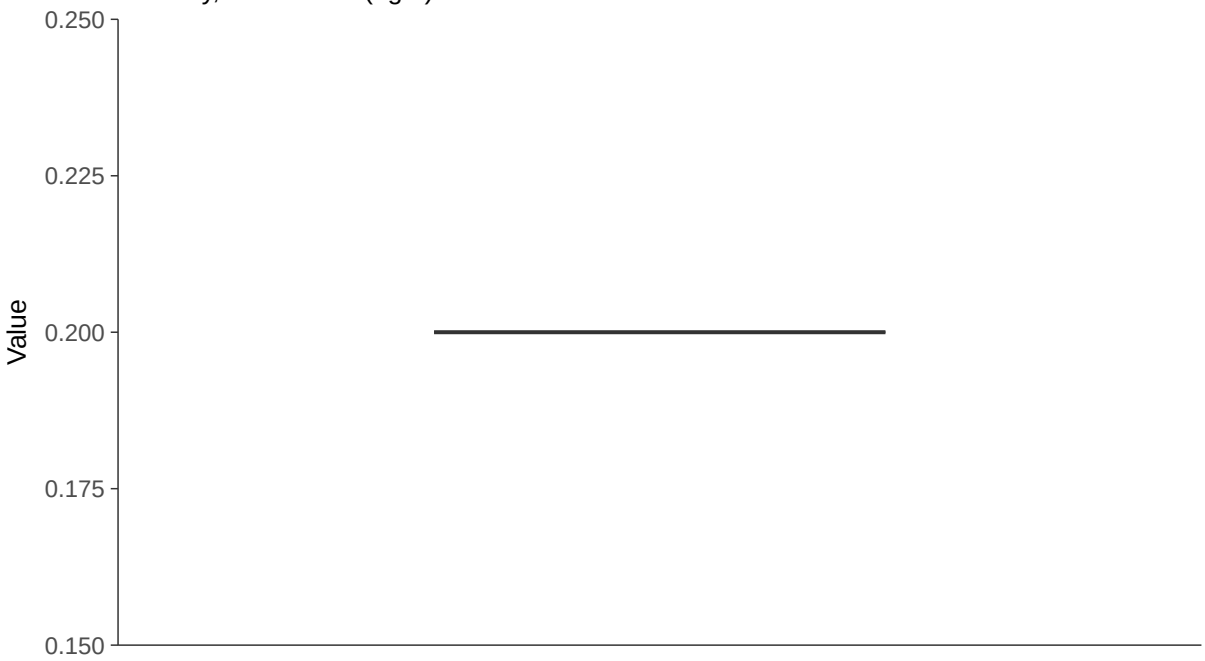
ID: 10_2_118





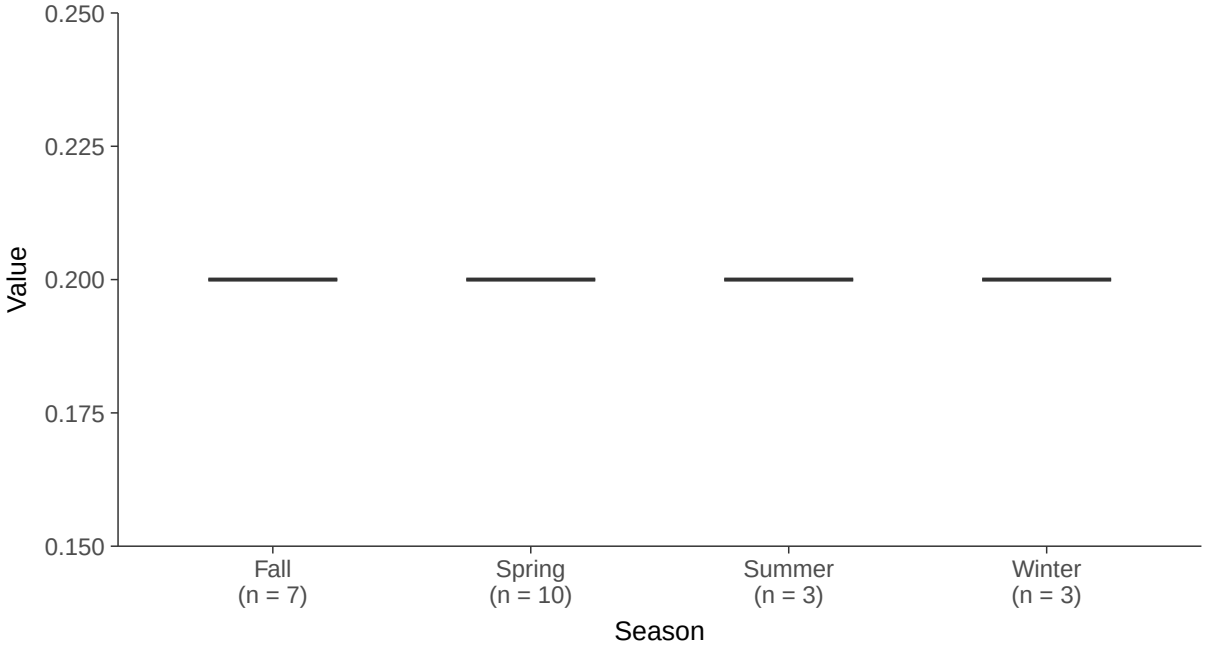
Boxplot

Mercury, MW-15020 (ug/L)



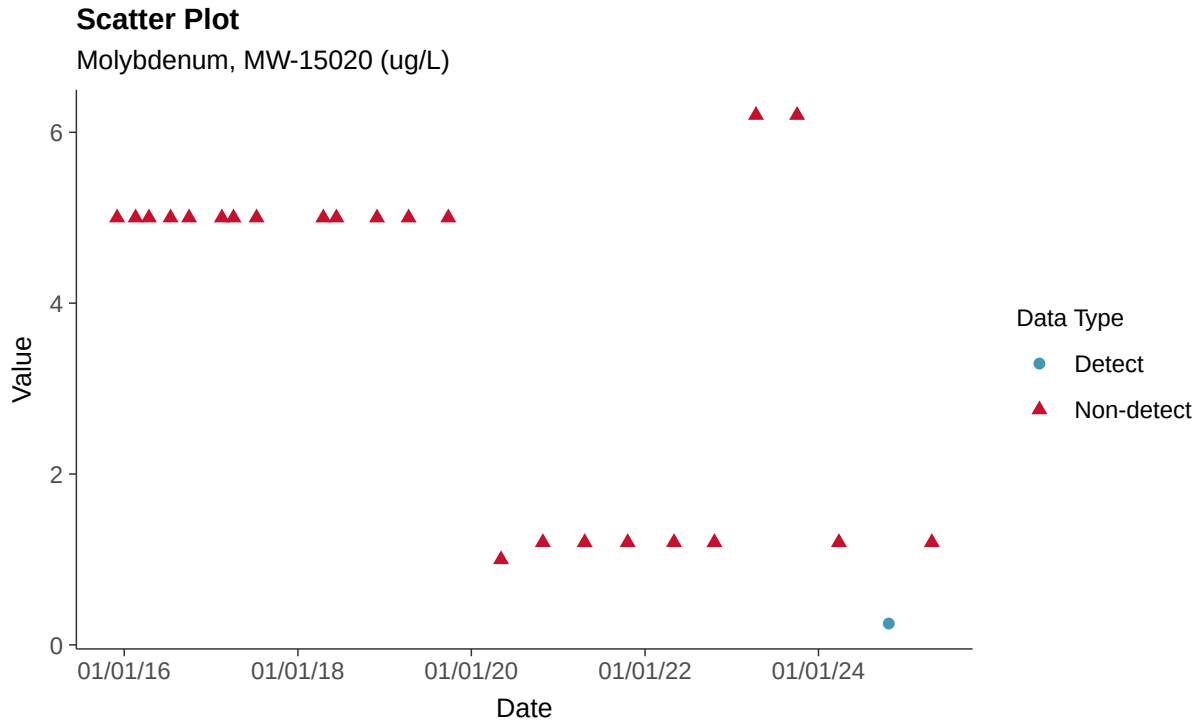
Boxplot by Season

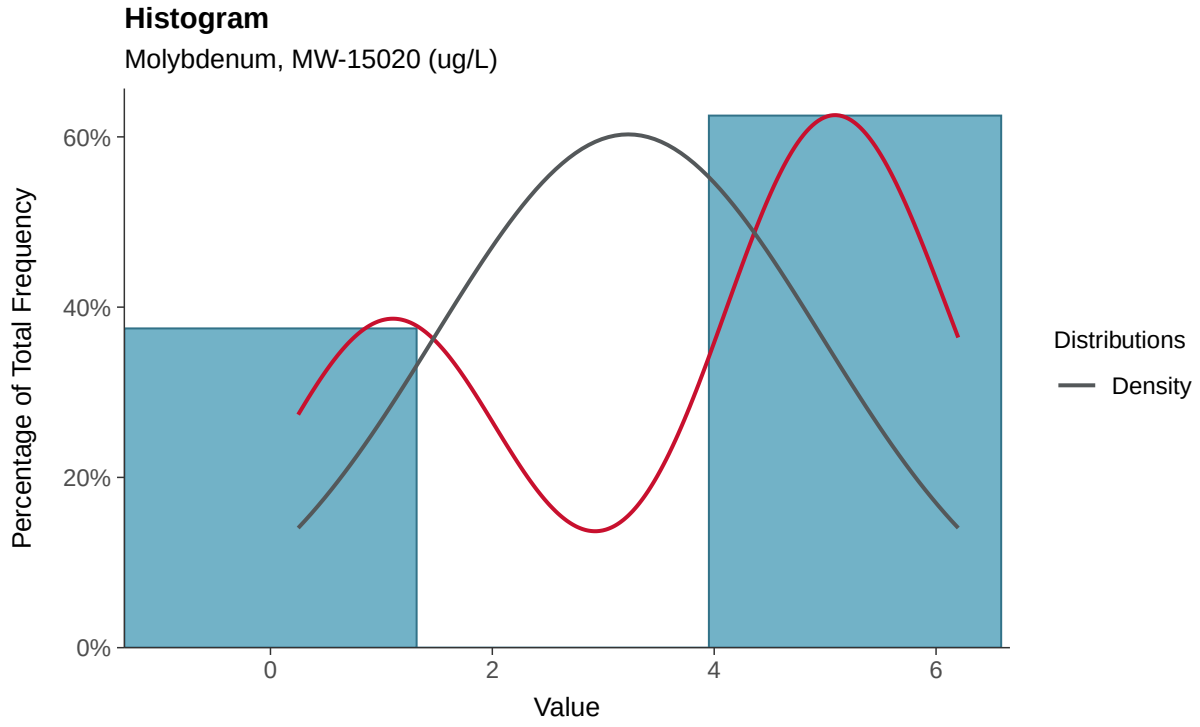
Mercury, MW-15020 (ug/L)



Appendix IV: Molybdenum, MW-15020

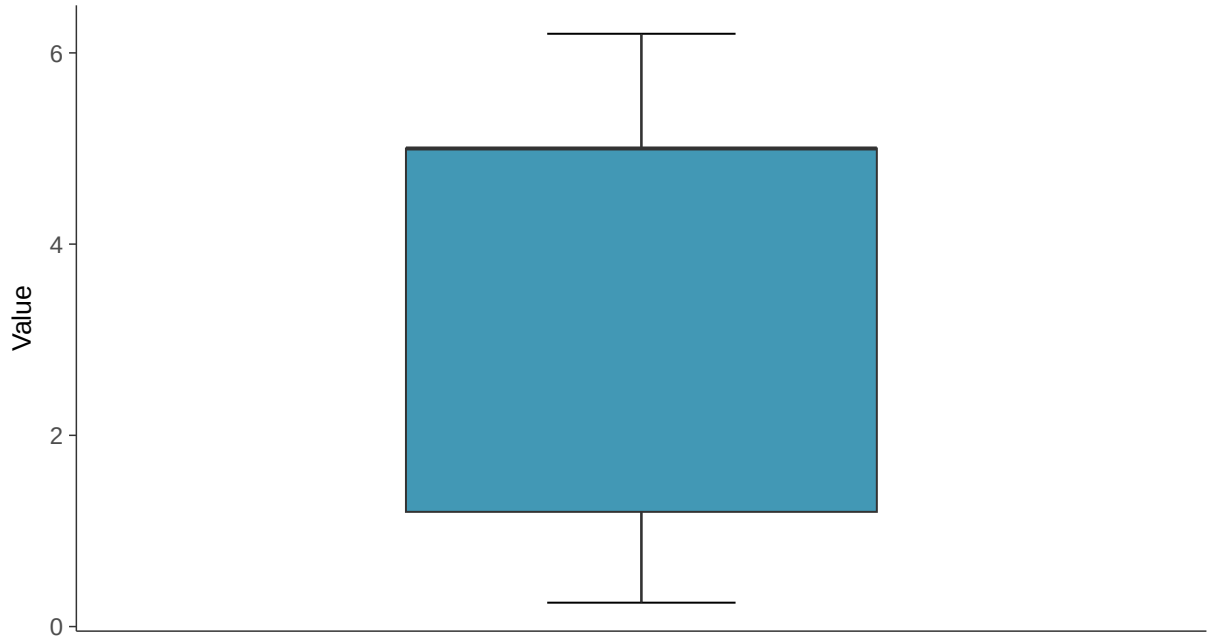
ID: 10_2_119





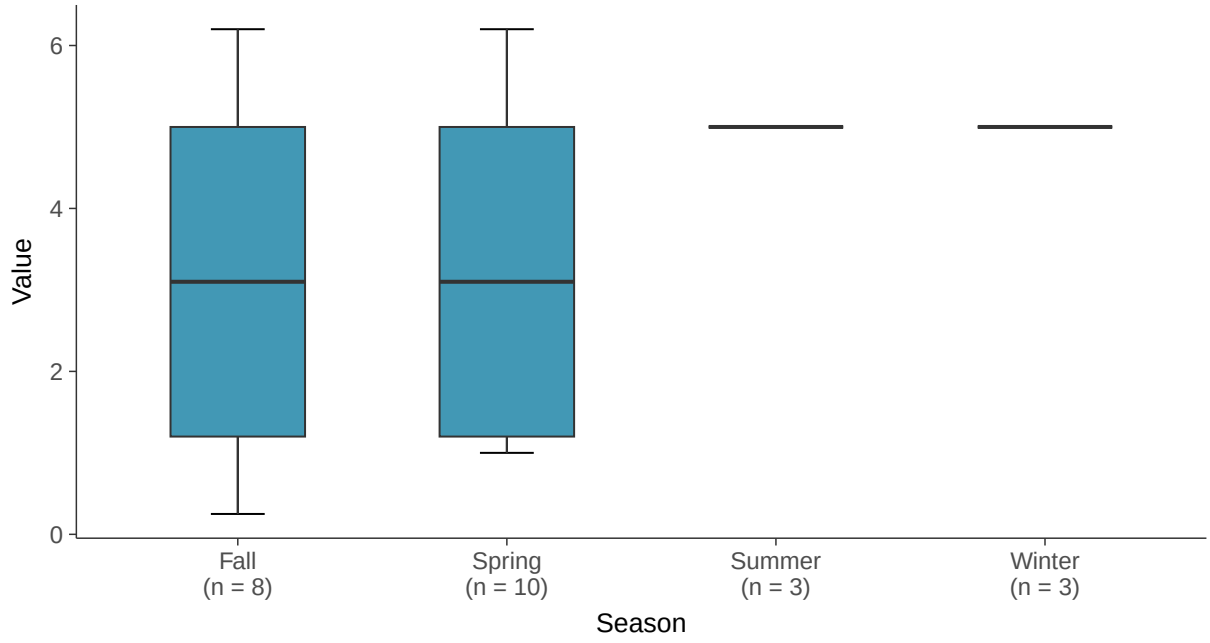
Boxplot

Molybdenum, MW-15020 (ug/L)



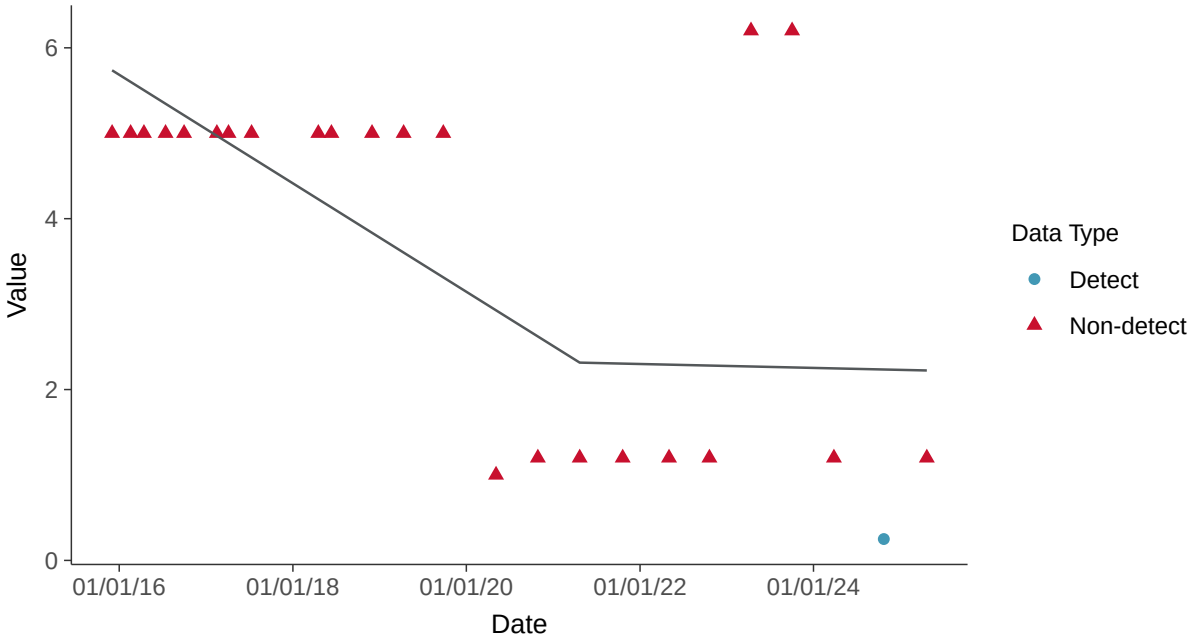
Boxplot by Season

Molybdenum, MW-15020 (ug/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-15020 (ug/L)

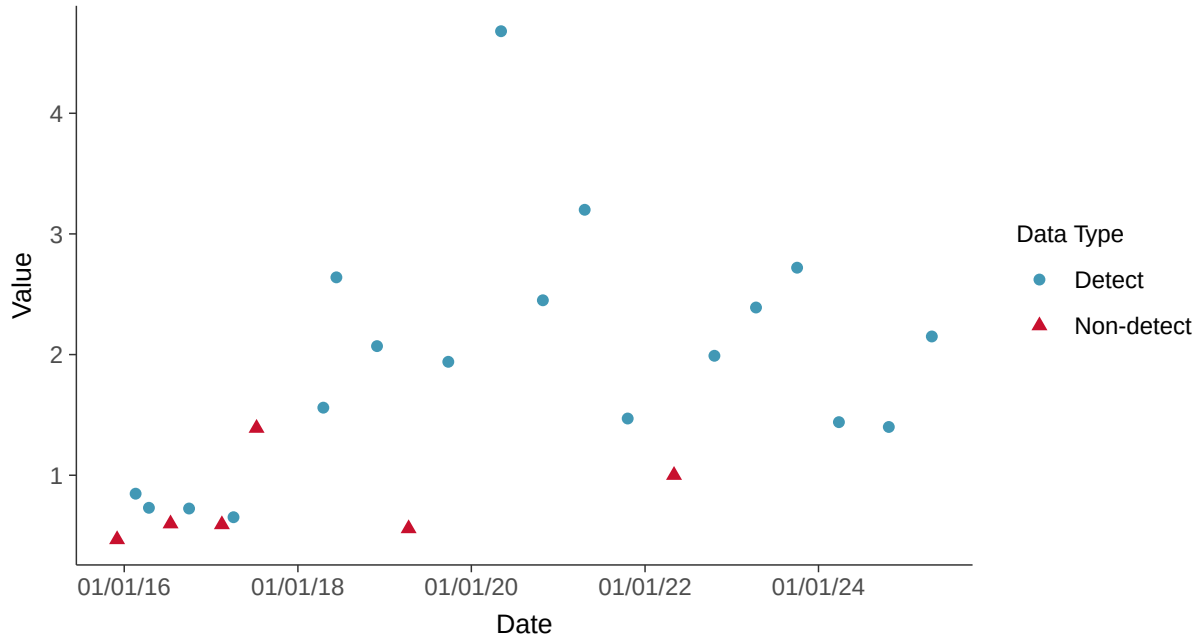


Appendix IV: Radium-226+228, MW-15020

ID: 10_2_125

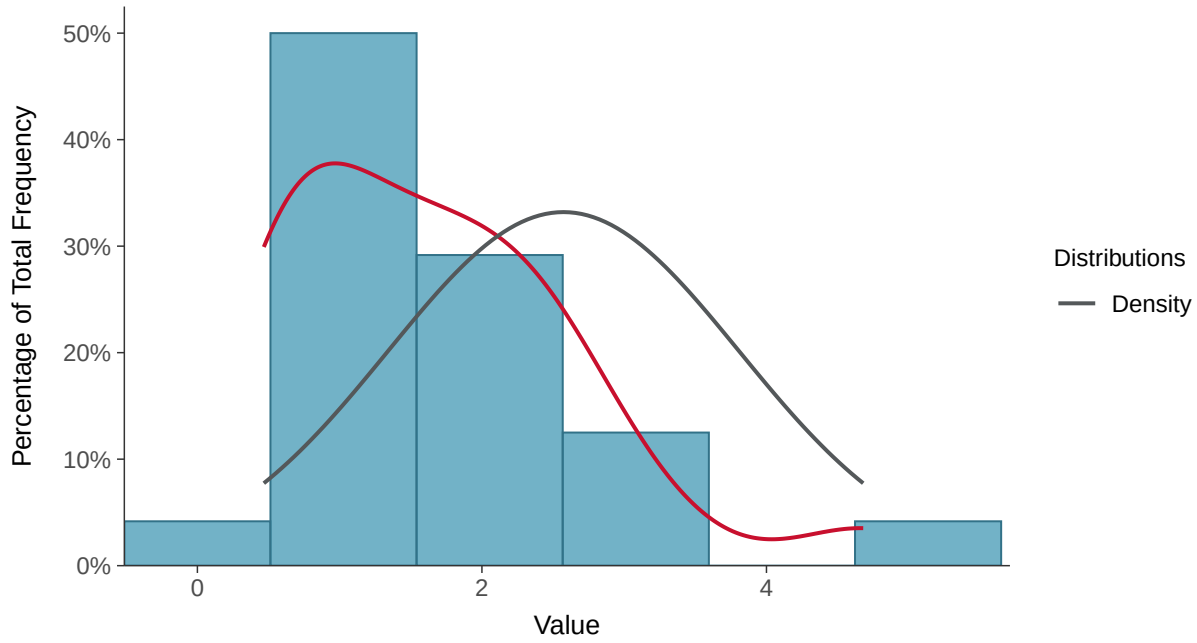
Scatter Plot

Radium-226+228, MW-15020 (pCi/L)



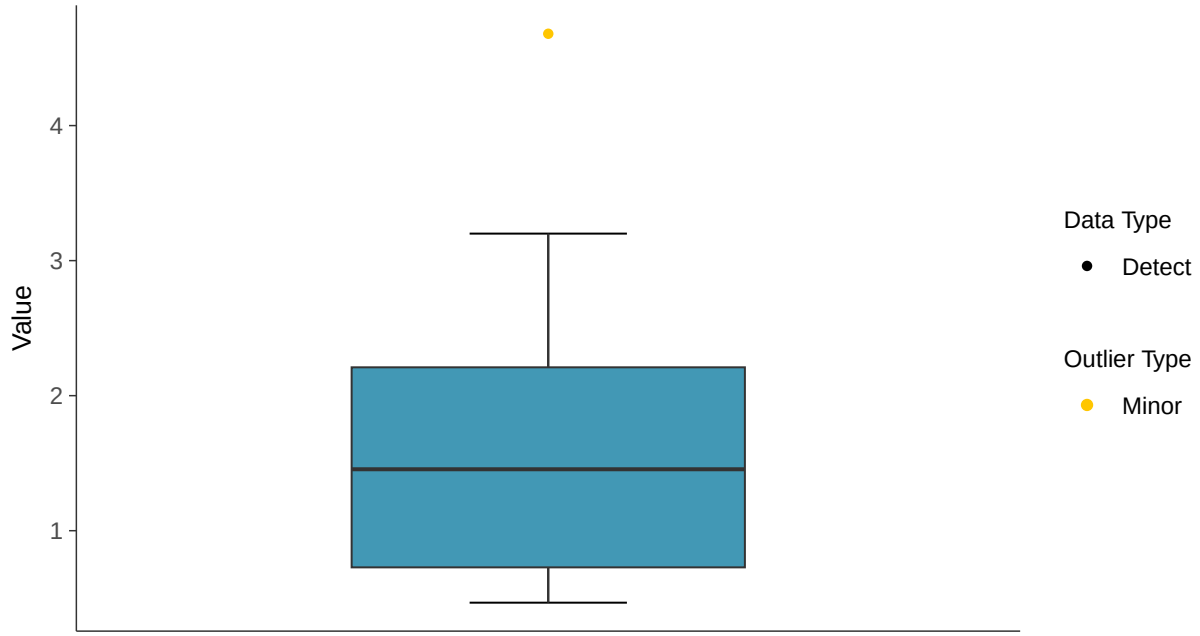
Histogram

Radium-226+228, MW-15020 (pCi/L)



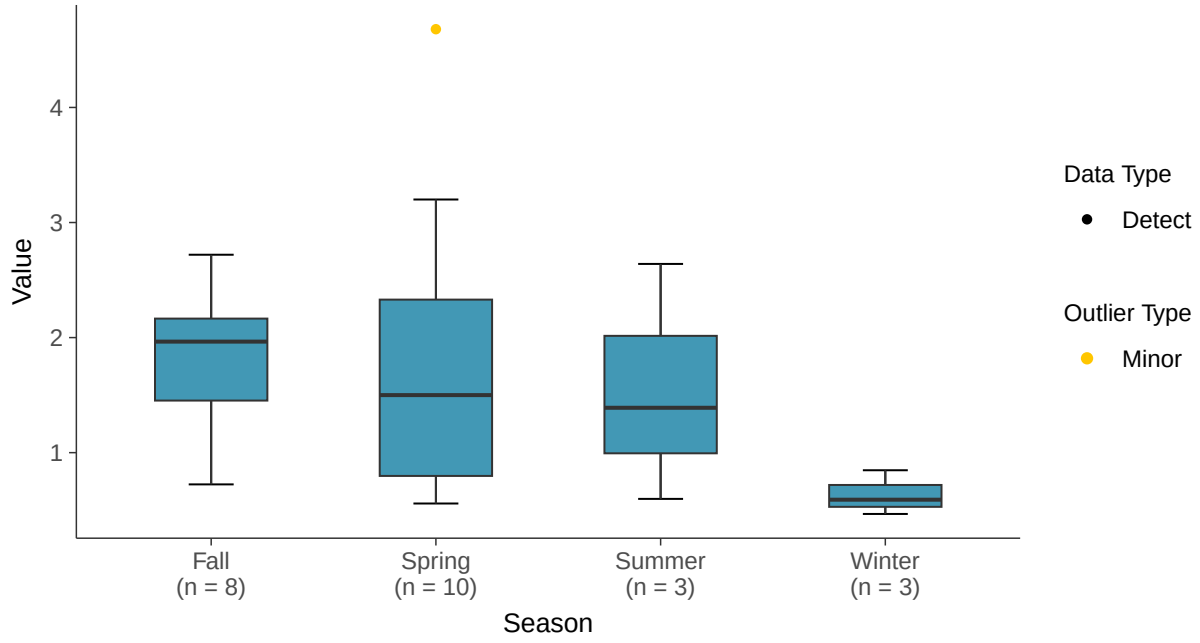
Boxplot

Radium-226+228, MW-15020 (pCi/L)



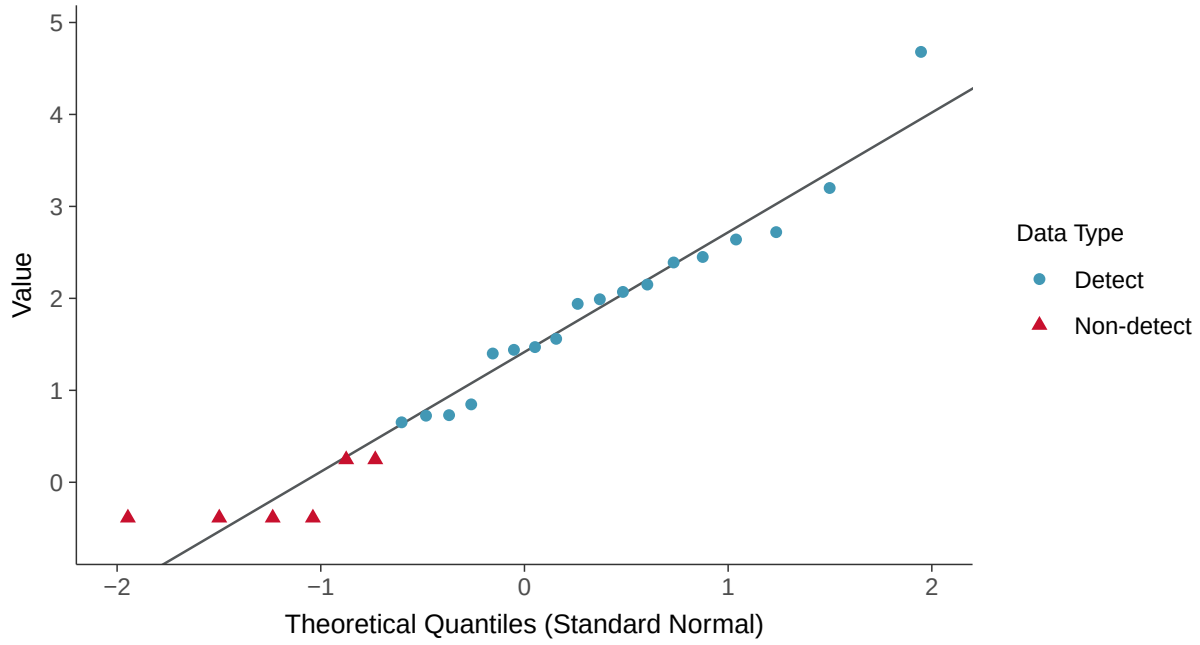
Boxplot by Season

Radium-226+228, MW-15020 (pCi/L)



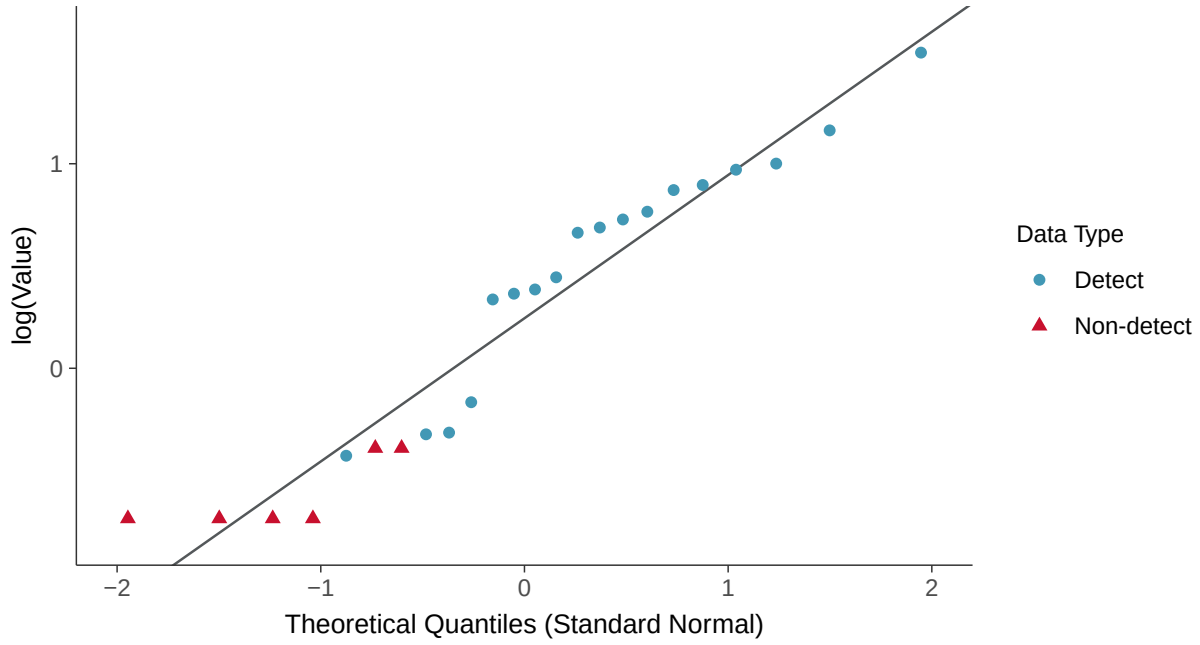
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15020 (pCi/L)



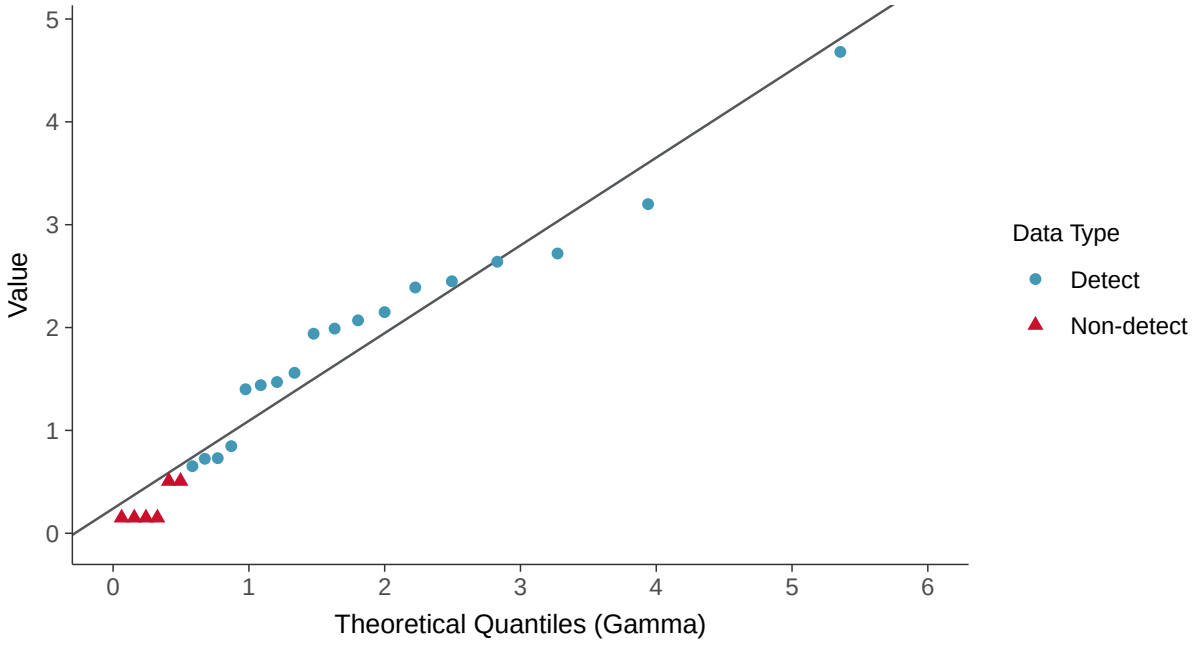
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15020 (pCi/L)



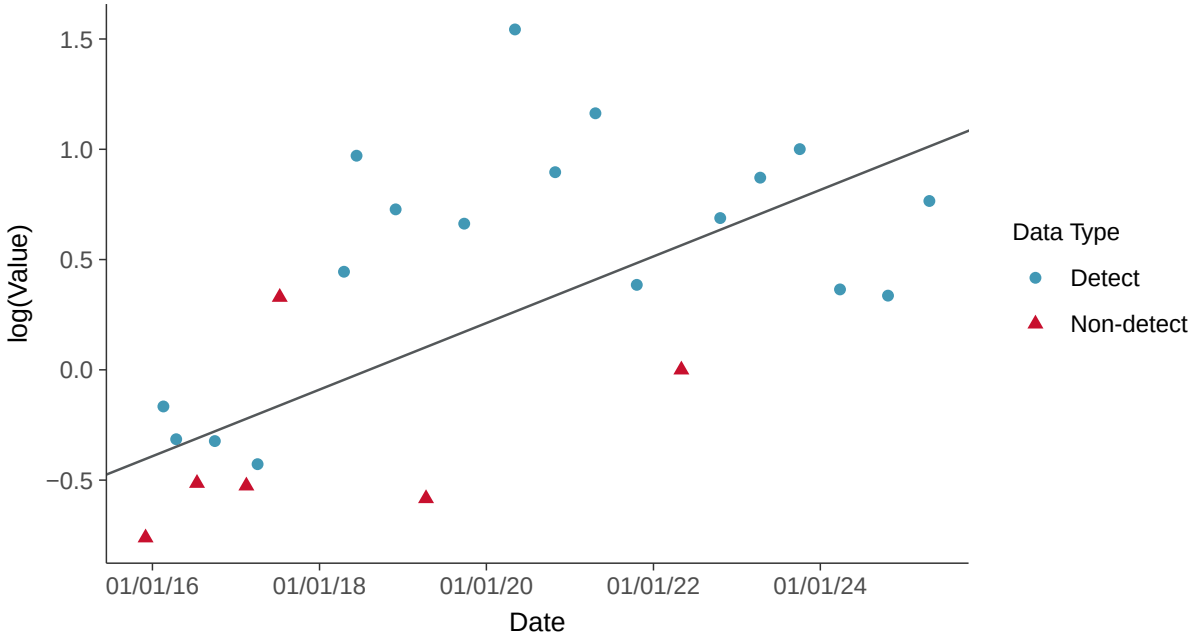
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15020 (pCi/L)



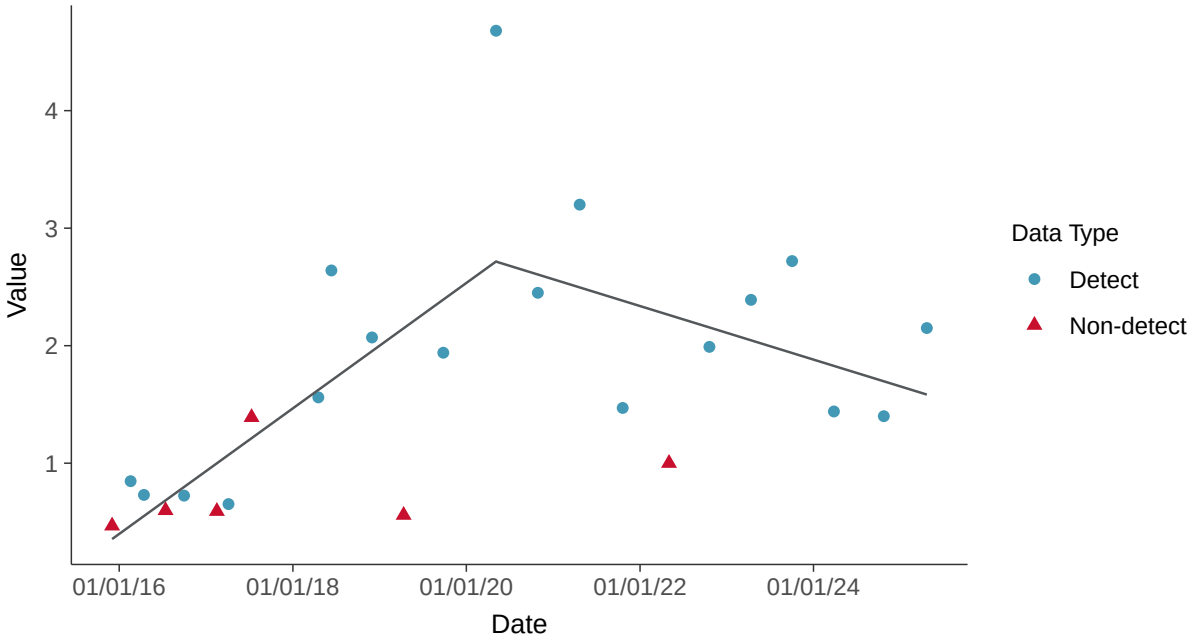
Trend Regression: Lognormal MLE

Radium-226+228, MW-15020 (pCi/L)



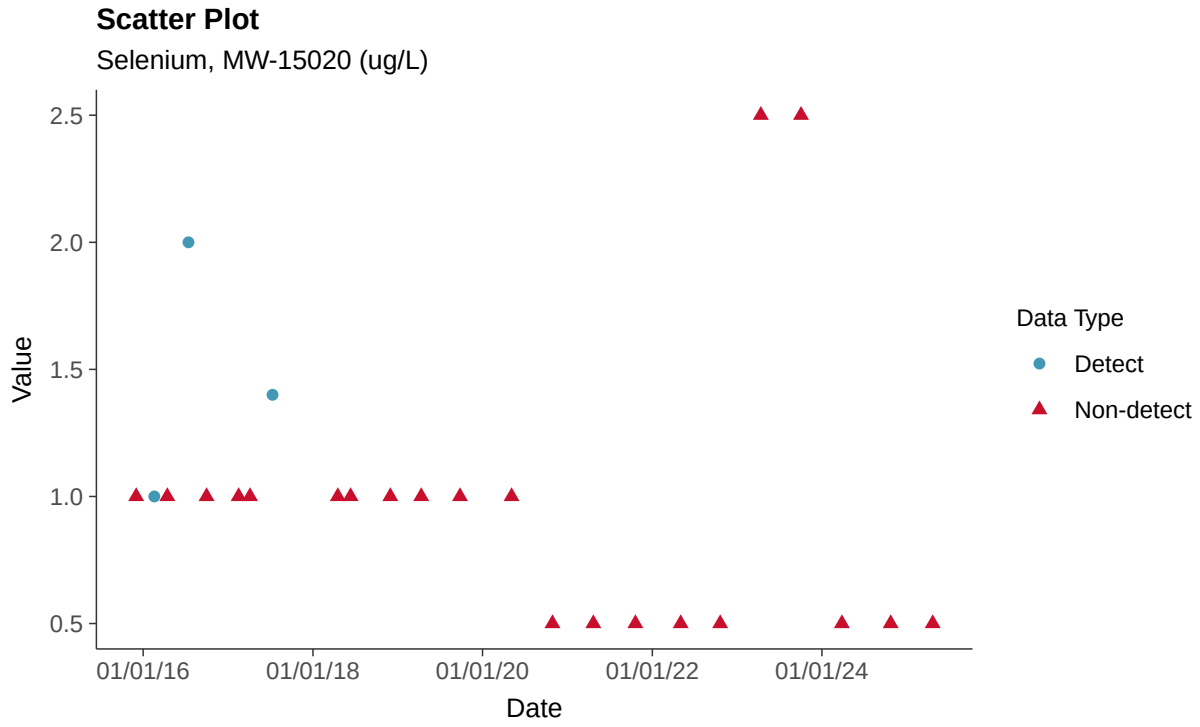
Trend Regression: Piecewise Linear-Linear

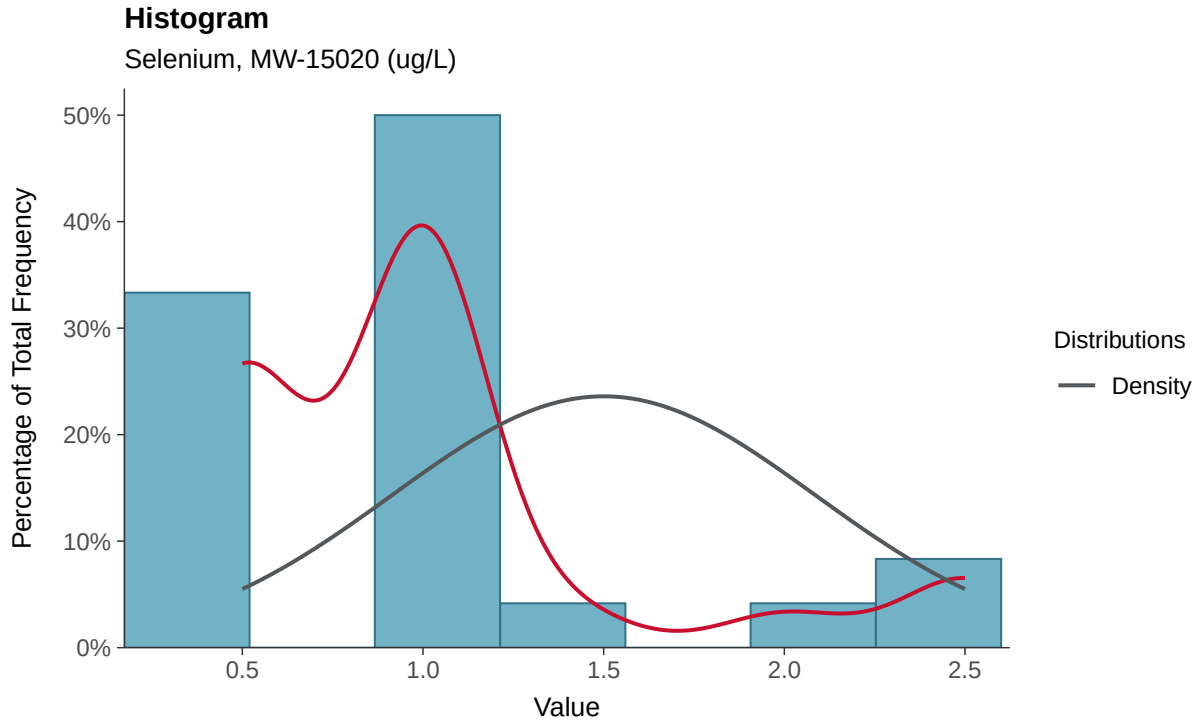
Radium-226+228, MW-15020 (pCi/L)



Appendix IV: Selenium, MW-15020

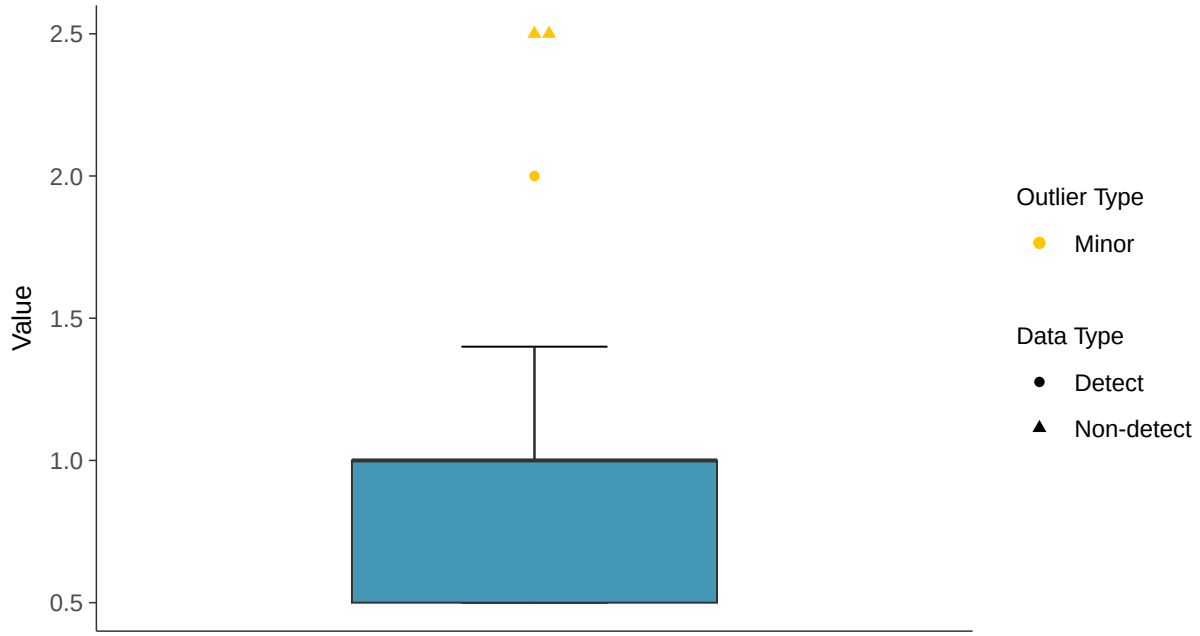
ID: 10_2_127





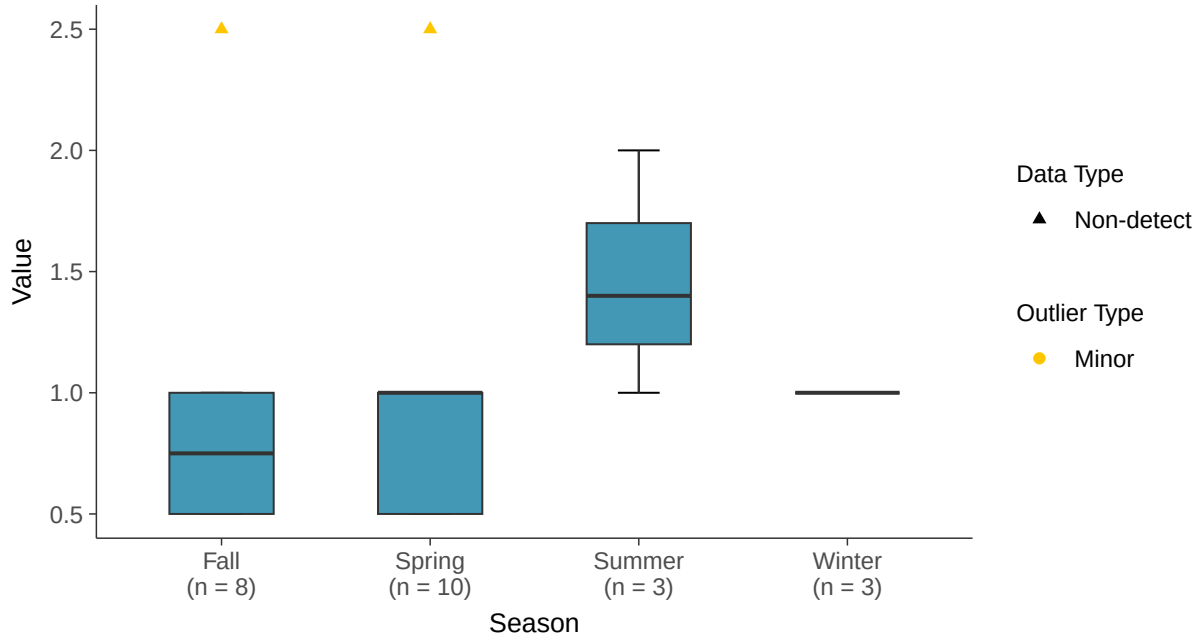
Boxplot

Selenium, MW-15020 (ug/L)



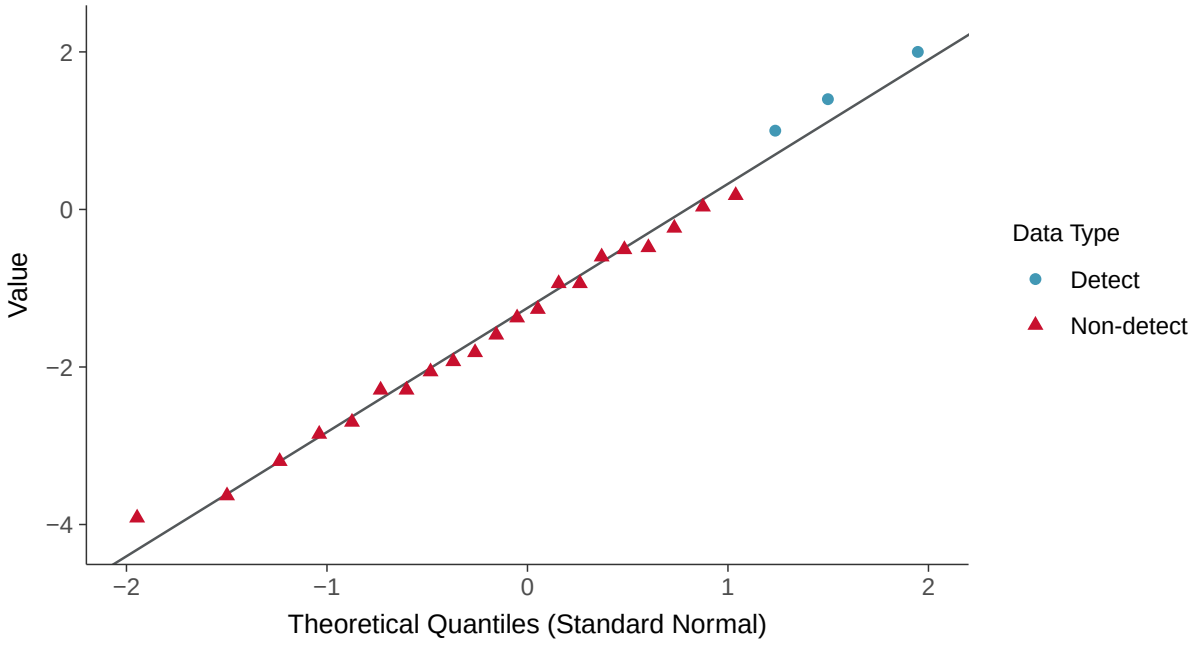
Boxplot by Season

Selenium, MW-15020 (ug/L)



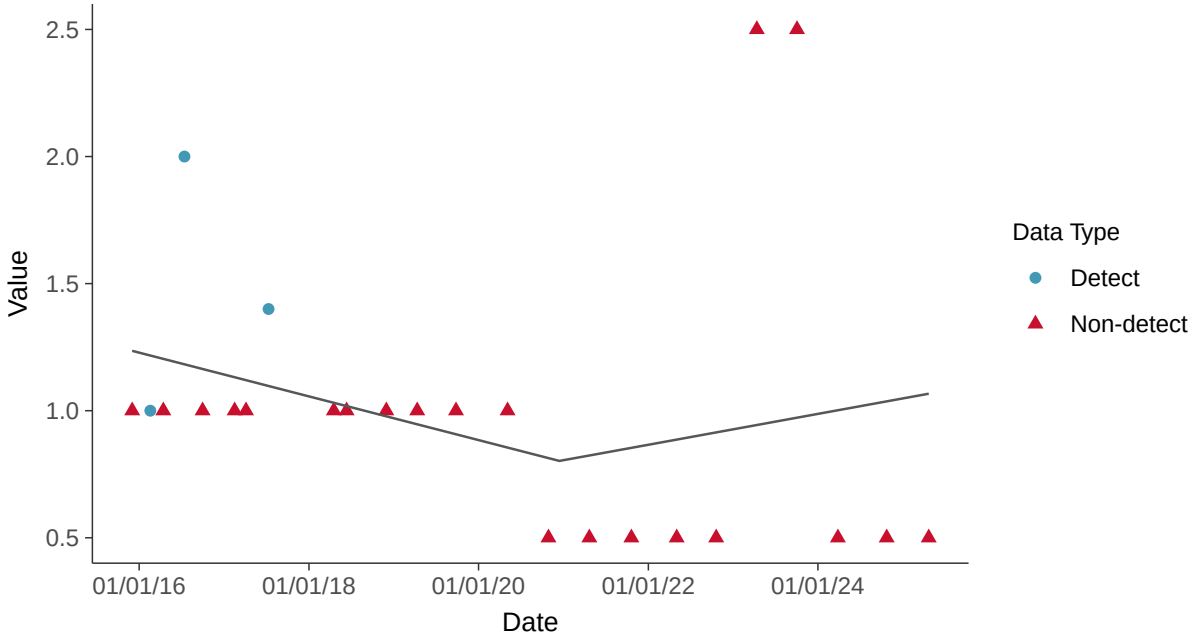
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-15020 (ug/L)



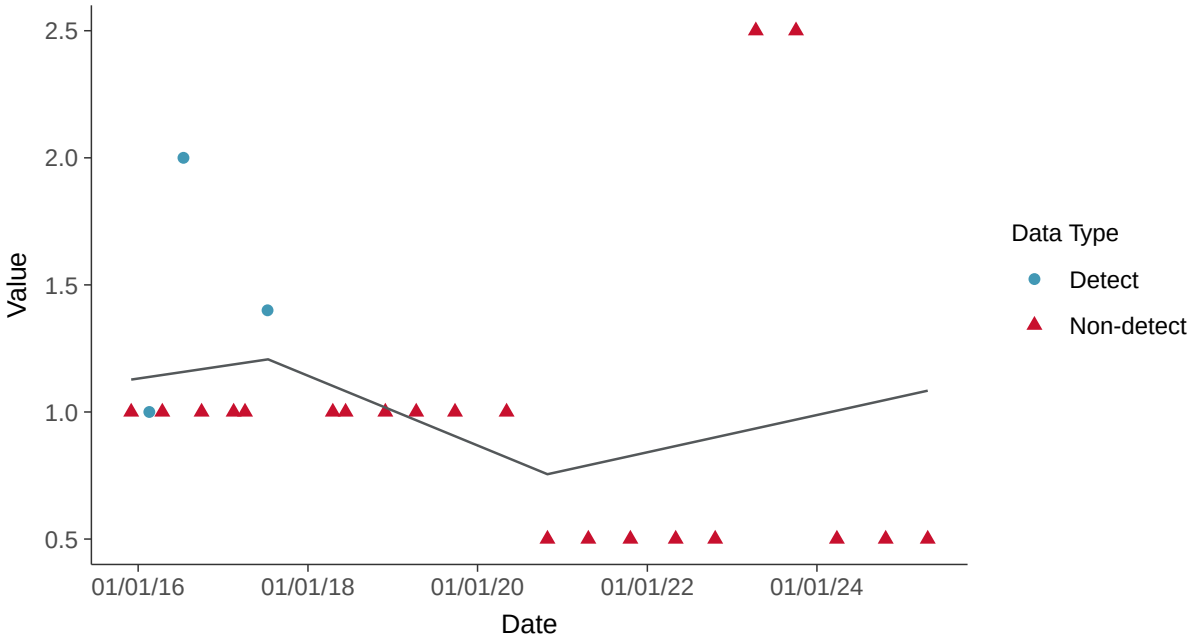
Trend Regression: Piecewise Linear-Linear

Selenium, MW-15020 (ug/L)



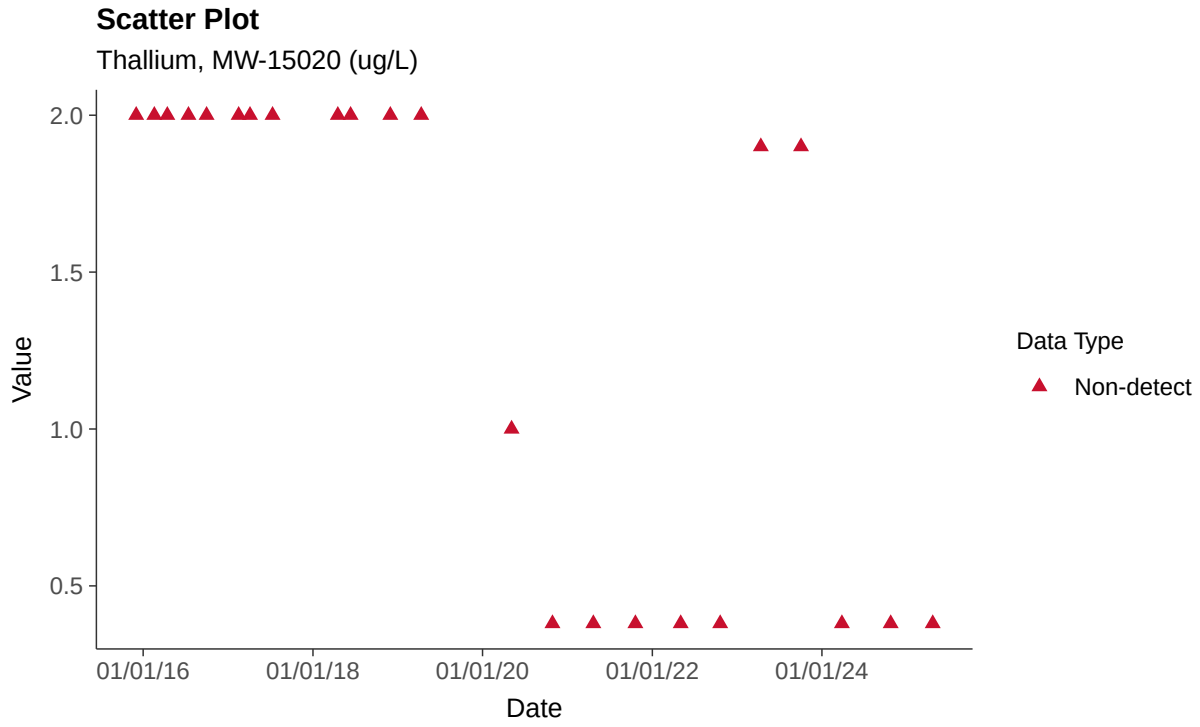
Trend Regression: Piecewise Linear-Linear-Linear

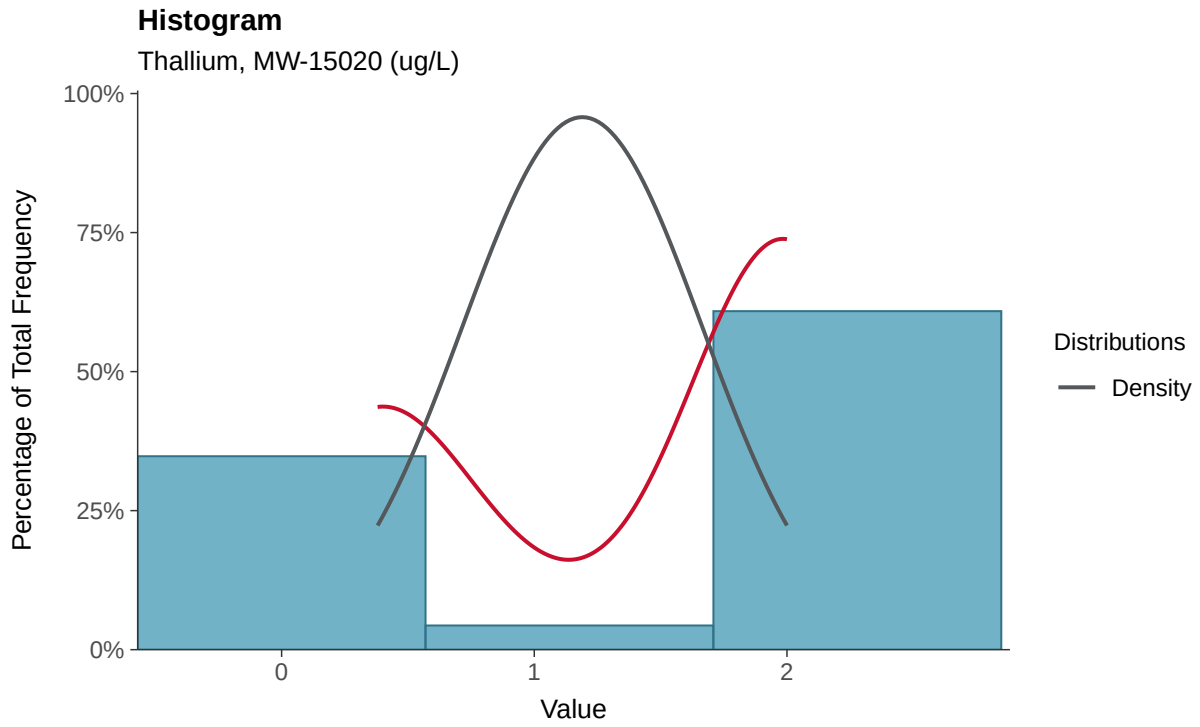
Selenium, MW-15020 (ug/L)



Appendix IV: Thallium, MW-15020

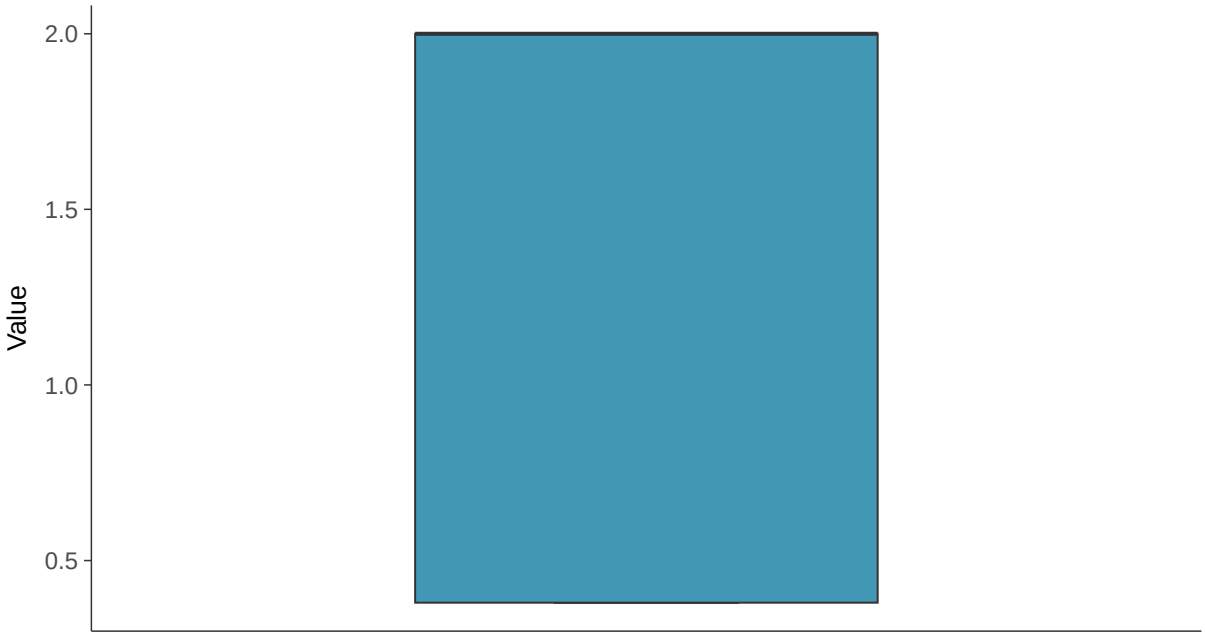
ID: 10_2_131





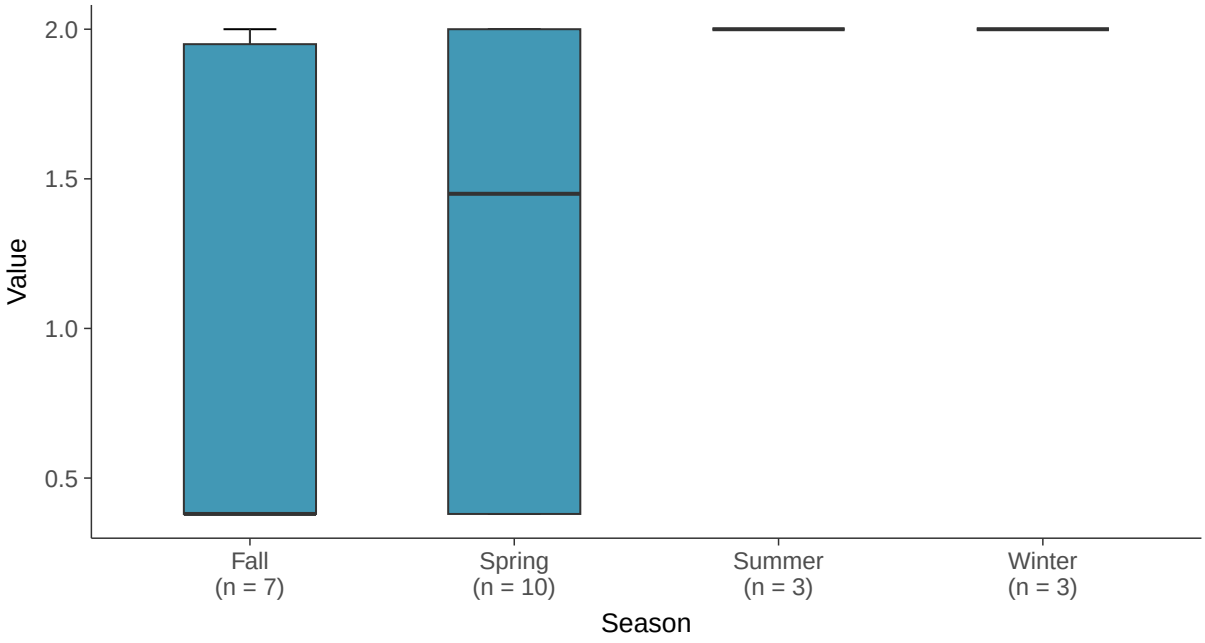
Boxplot

Thallium, MW-15020 (ug/L)



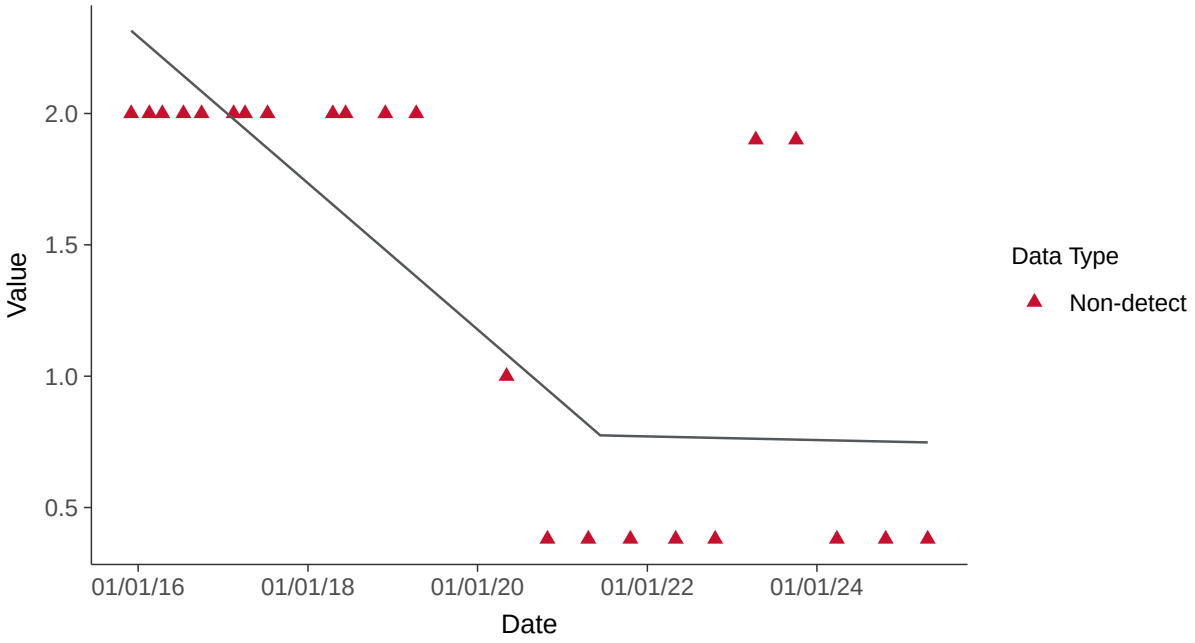
Boxplot by Season

Thallium, MW-15020 (ug/L)



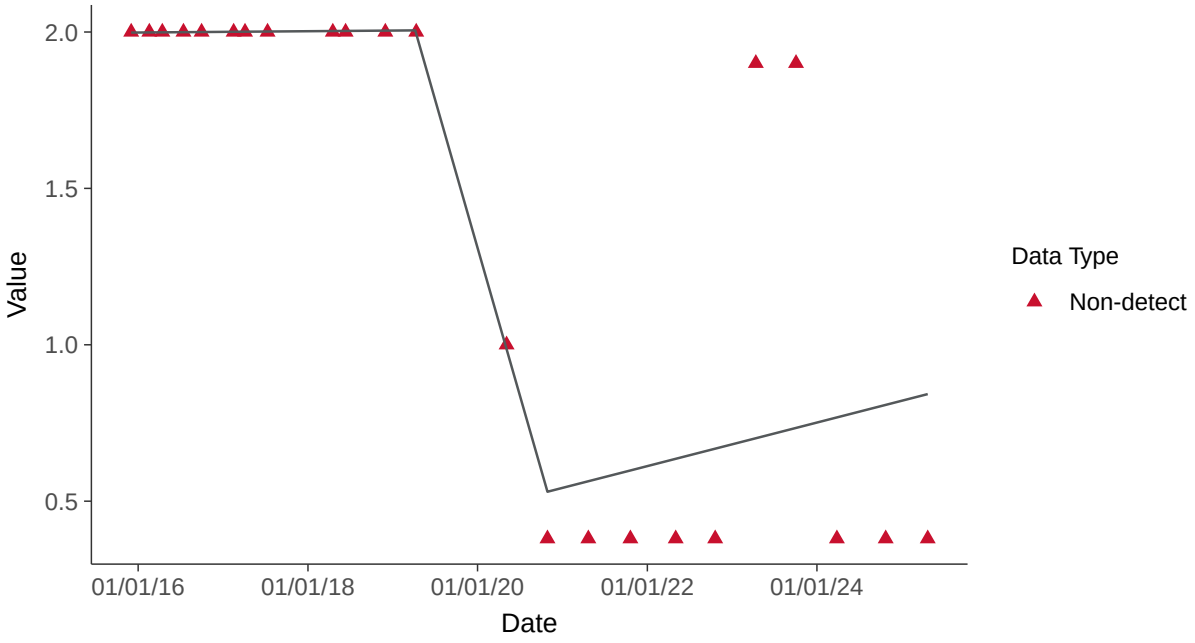
Trend Regression: Piecewise Linear-Linear

Thallium, MW-15020 (ug/L)



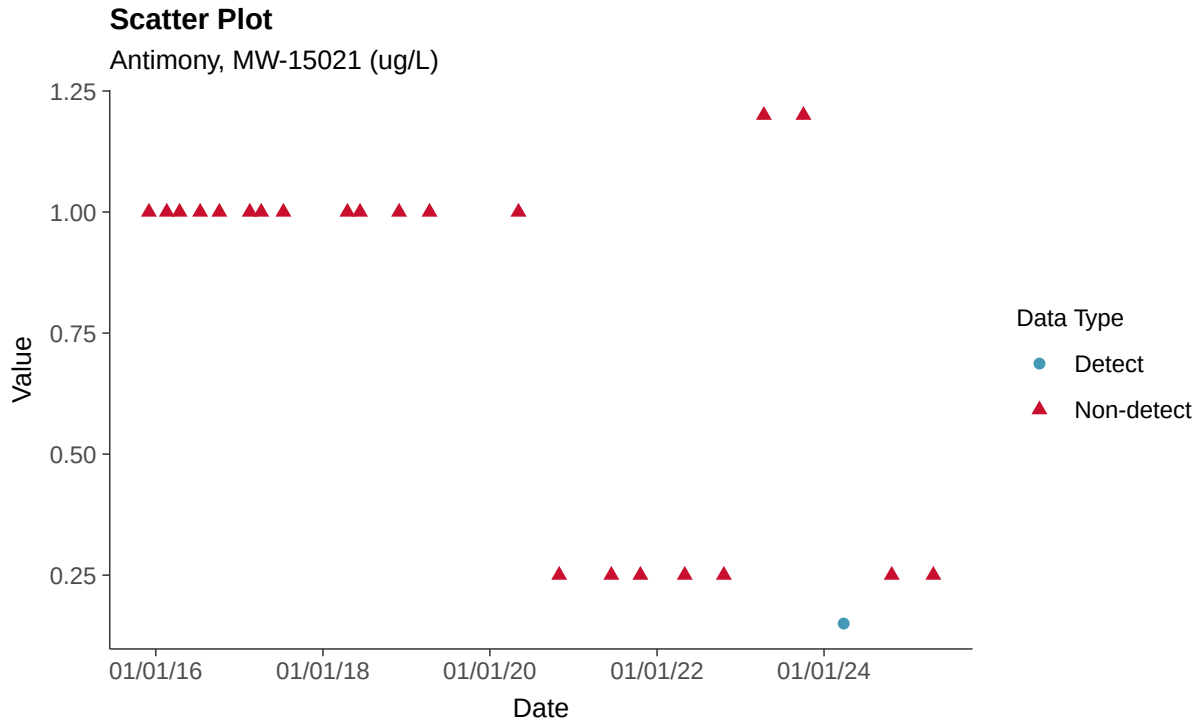
Trend Regression: Piecewise Linear-Linear-Linear

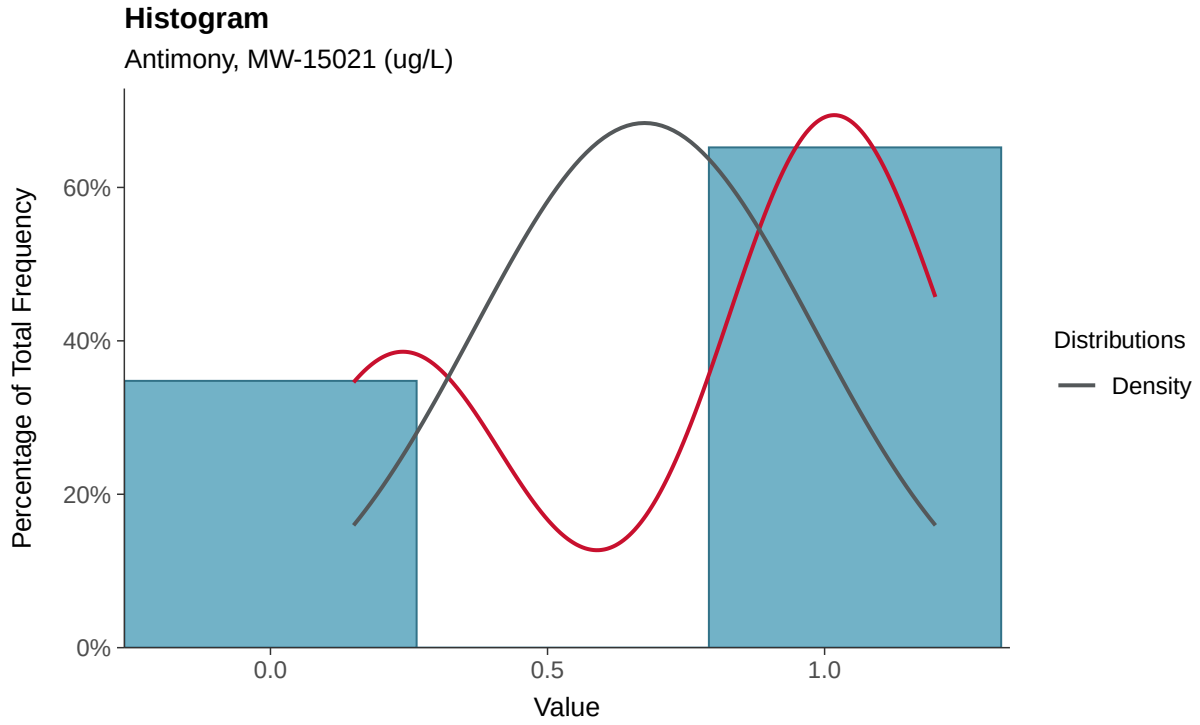
Thallium, MW-15020 (ug/L)



Appendix IV: Antimony, MW-15021

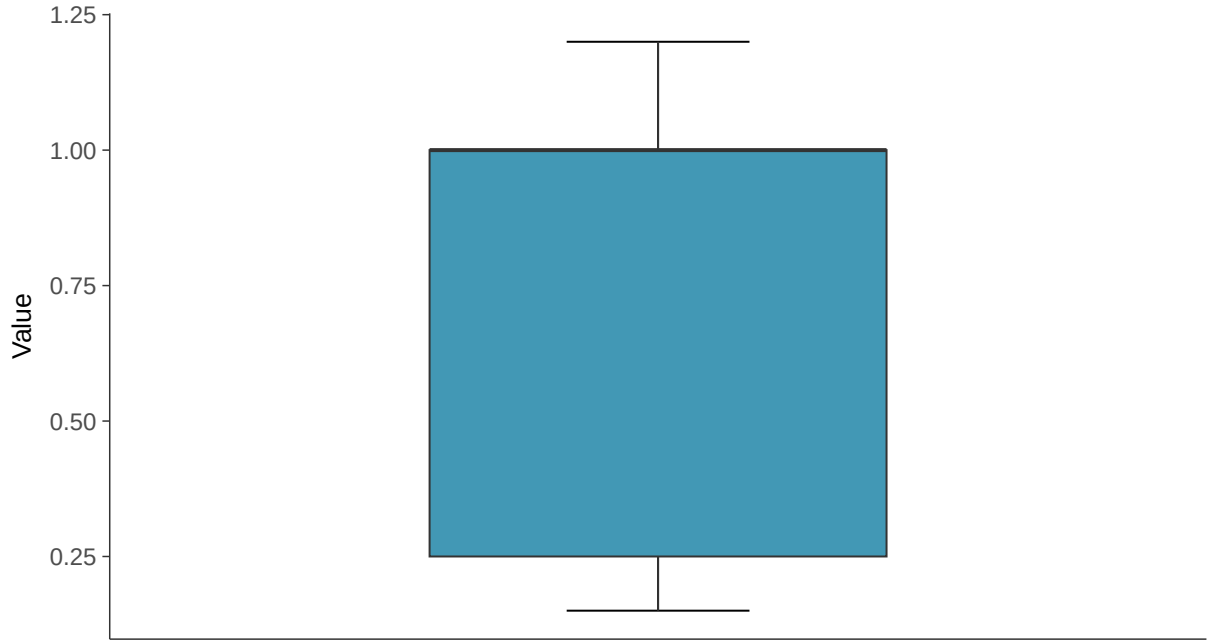
ID: 11_2_101





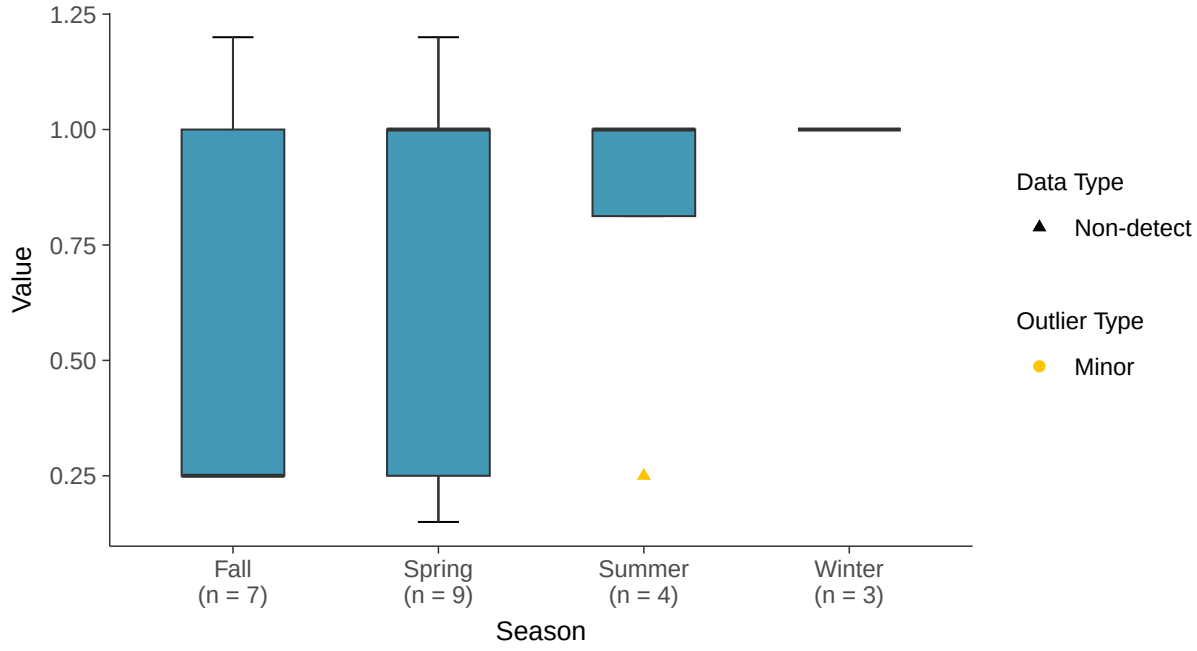
Boxplot

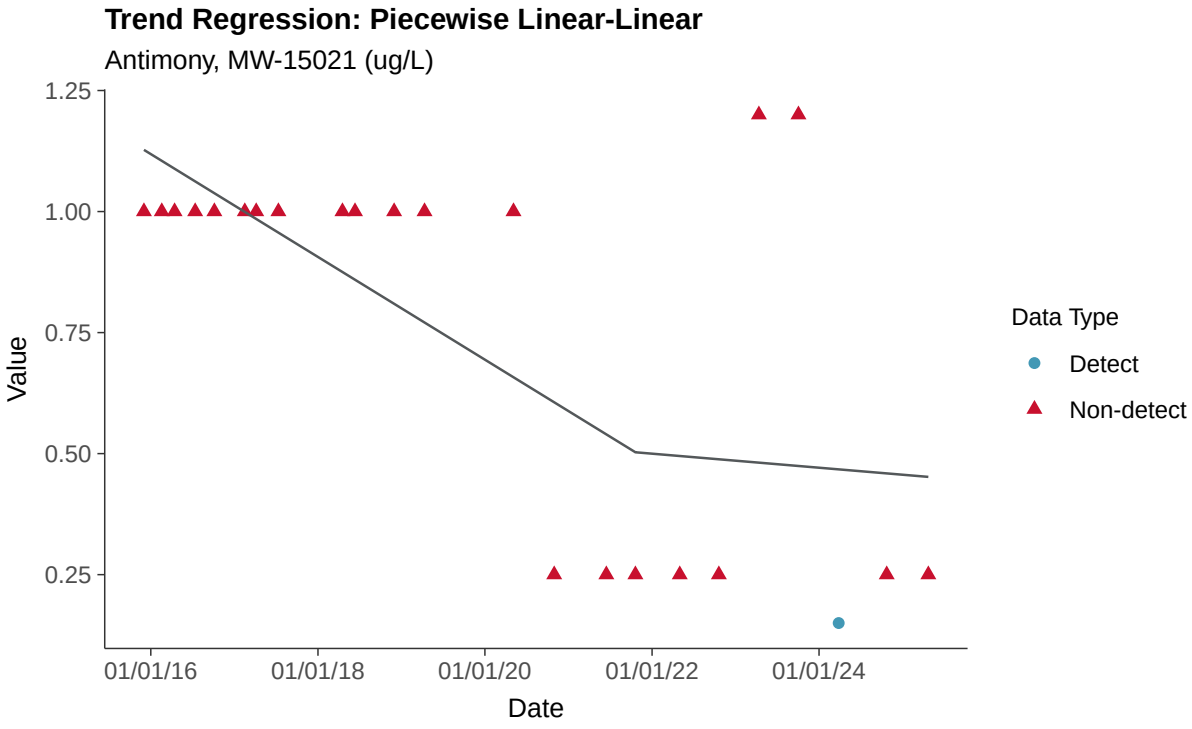
Antimony, MW-15021 (ug/L)



Boxplot by Season

Antimony, MW-15021 (ug/L)



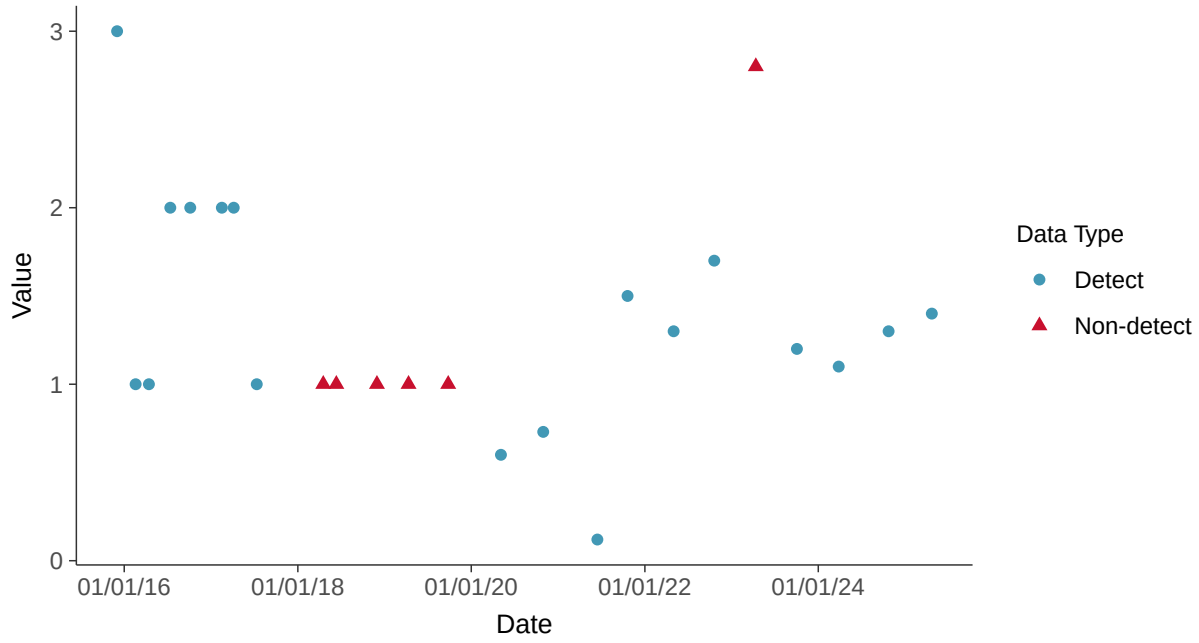

Trend Regression: Piecewise Linear-Linear
Antimony, MW-15021 (ug/L)
1.25
1.00
0.75
0.50
0.25
Value
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Detect
Non-detect

Appendix IV: Arsenic, MW-15021

ID: 11_2_102

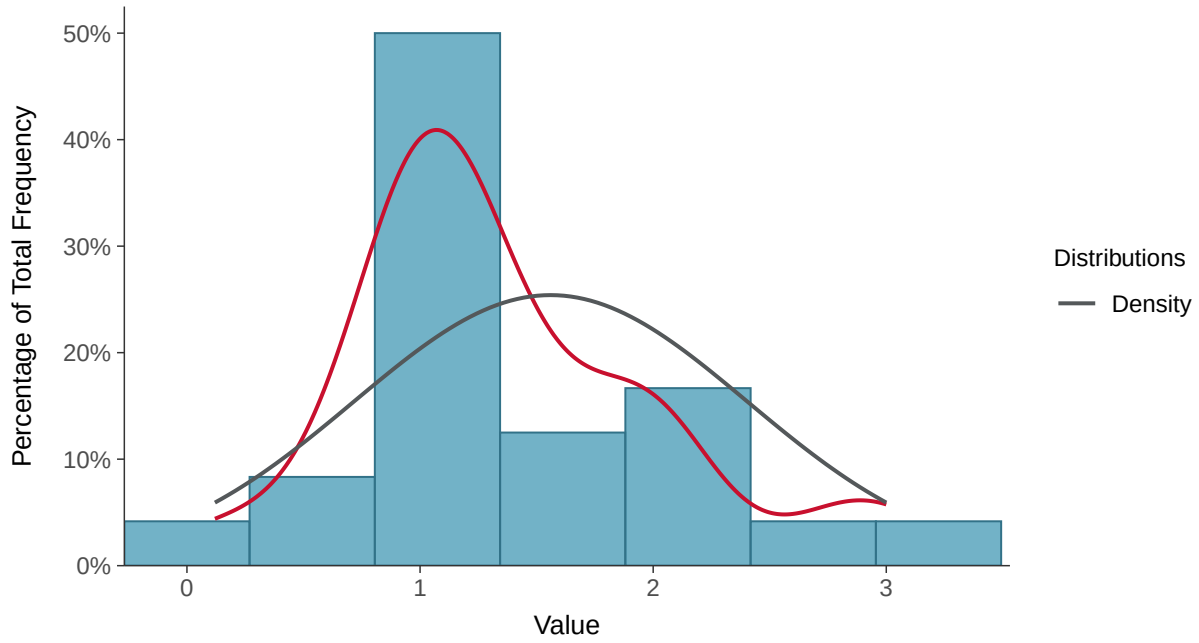
Scatter Plot

Arsenic, MW-15021 (ug/L)



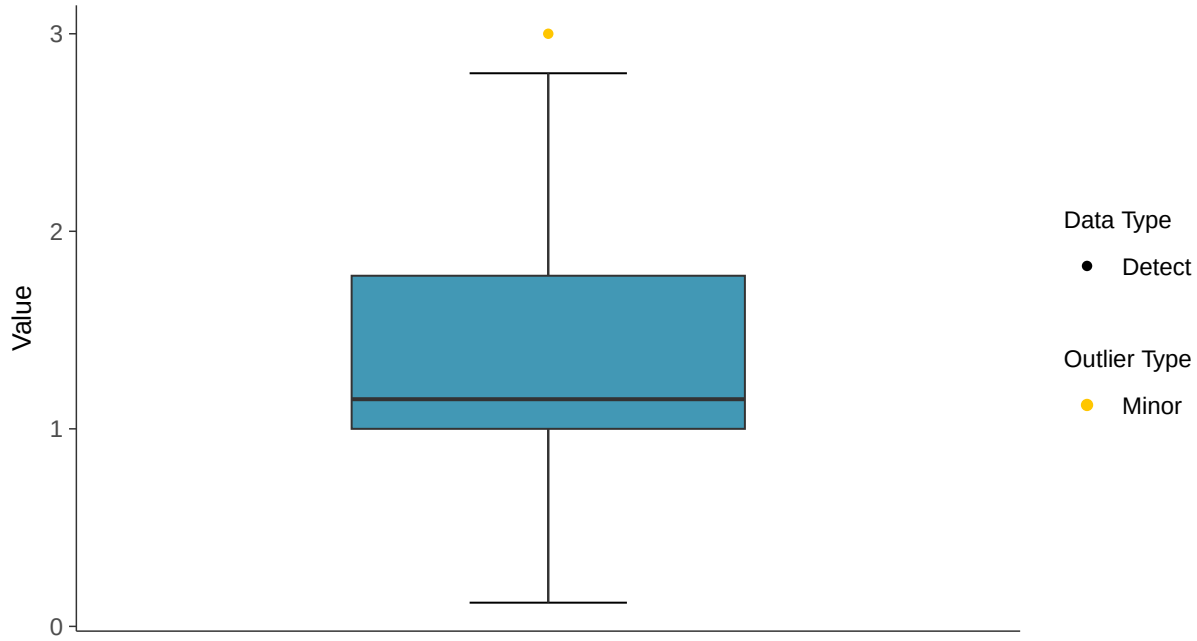
Histogram

Arsenic, MW-15021 (ug/L)



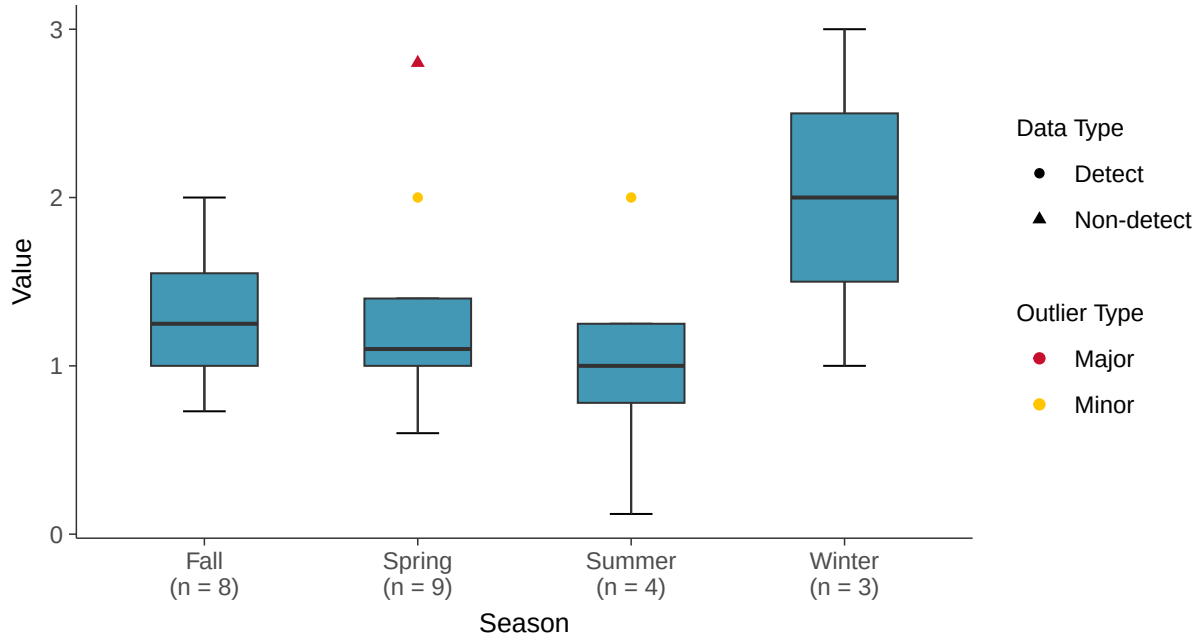
Boxplot

Arsenic, MW-15021 (ug/L)



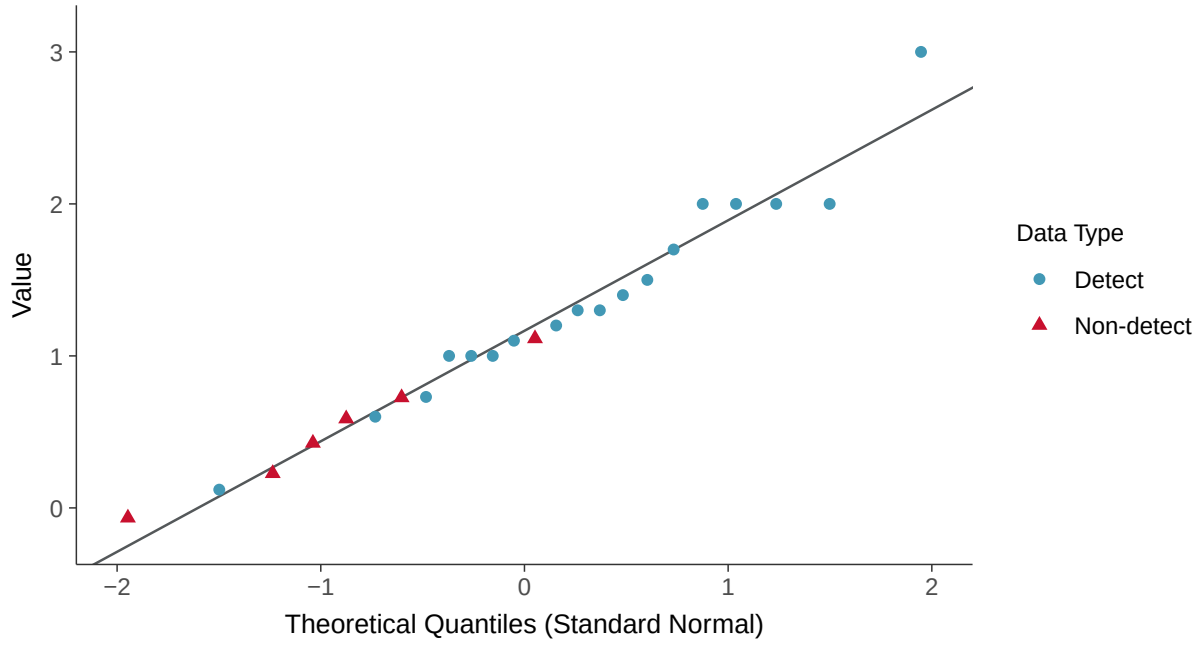
Boxplot by Season

Arsenic, MW-15021 (ug/L)



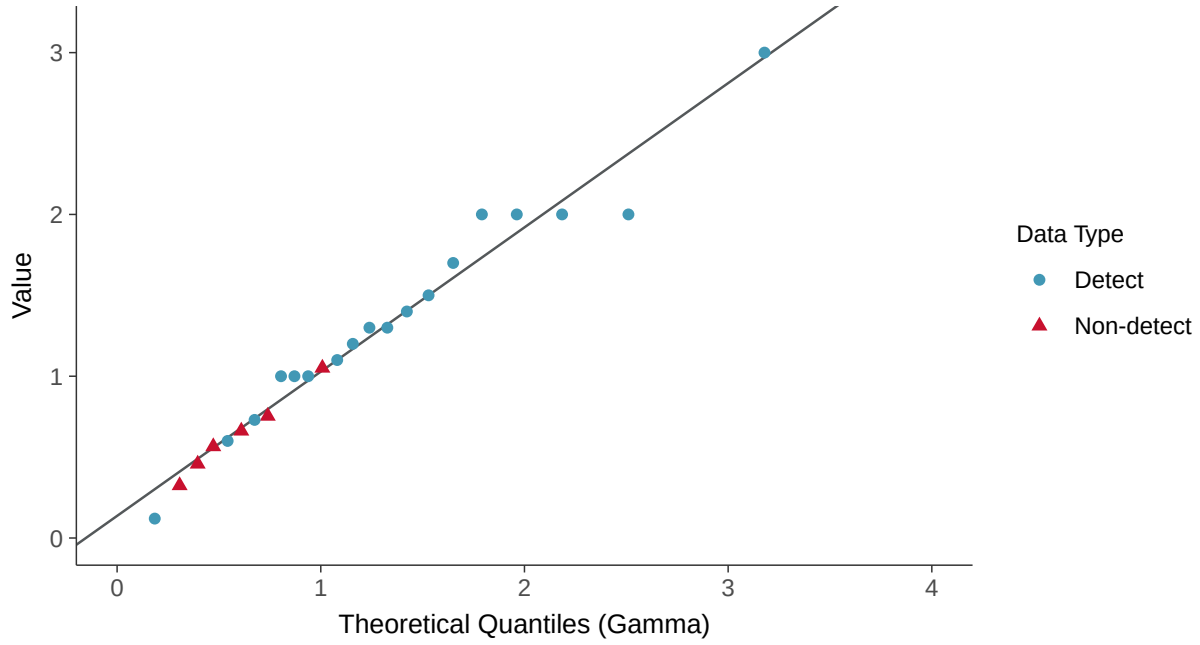
Normal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15021 (ug/L)



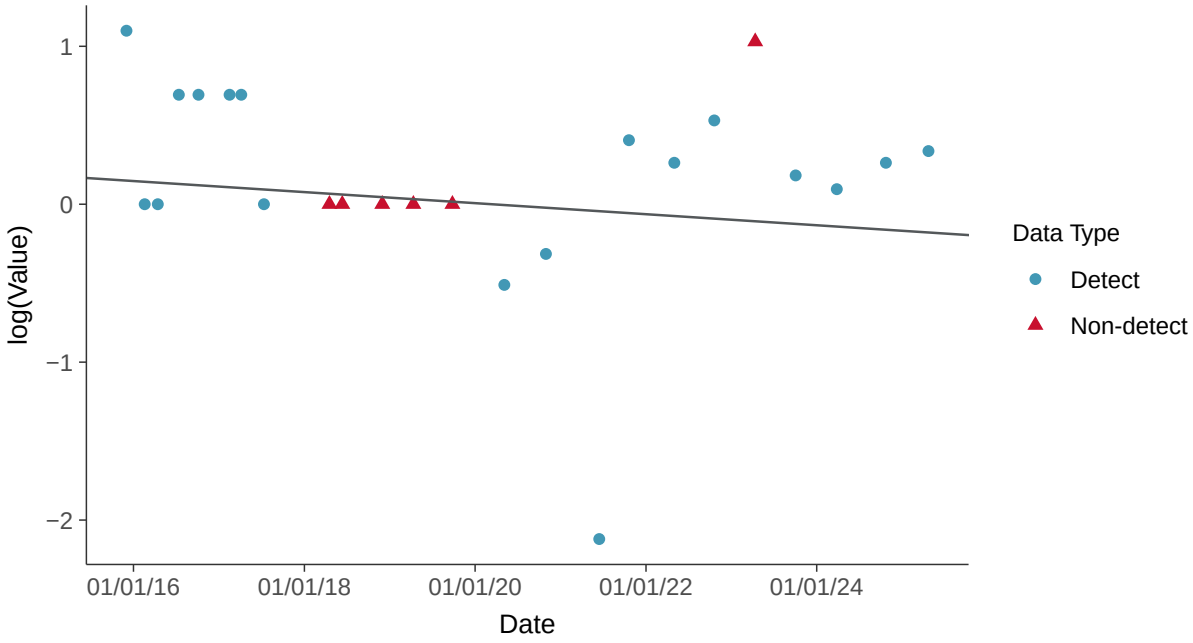
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15021 (ug/L)



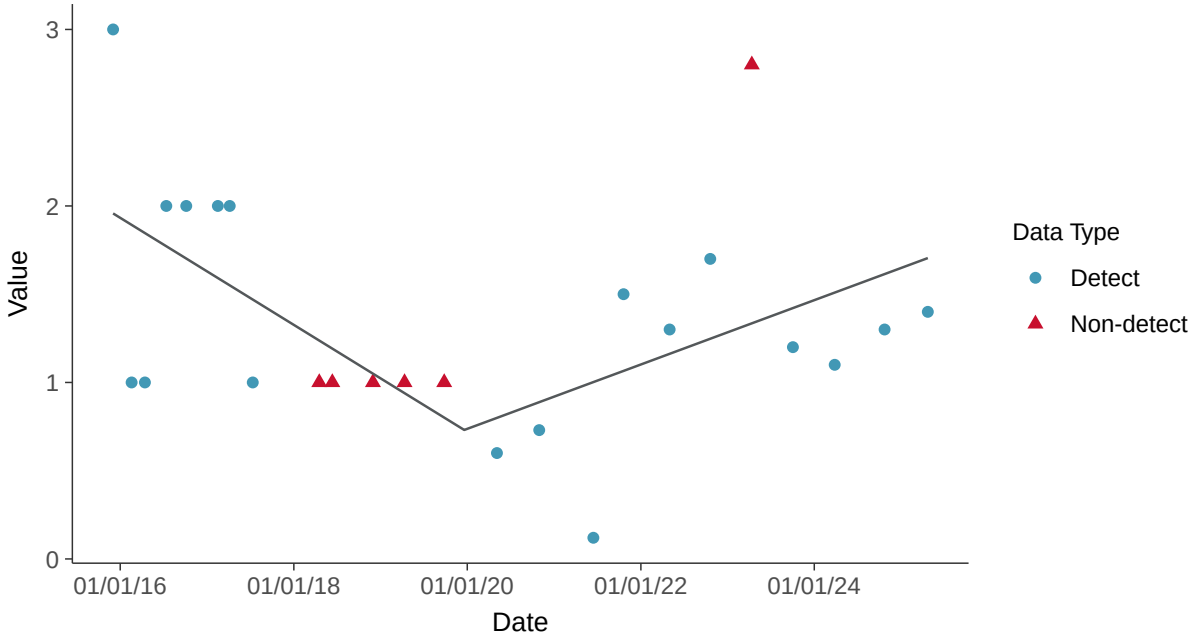
Trend Regression: Lognormal MLE

Arsenic, MW-15021 (ug/L)



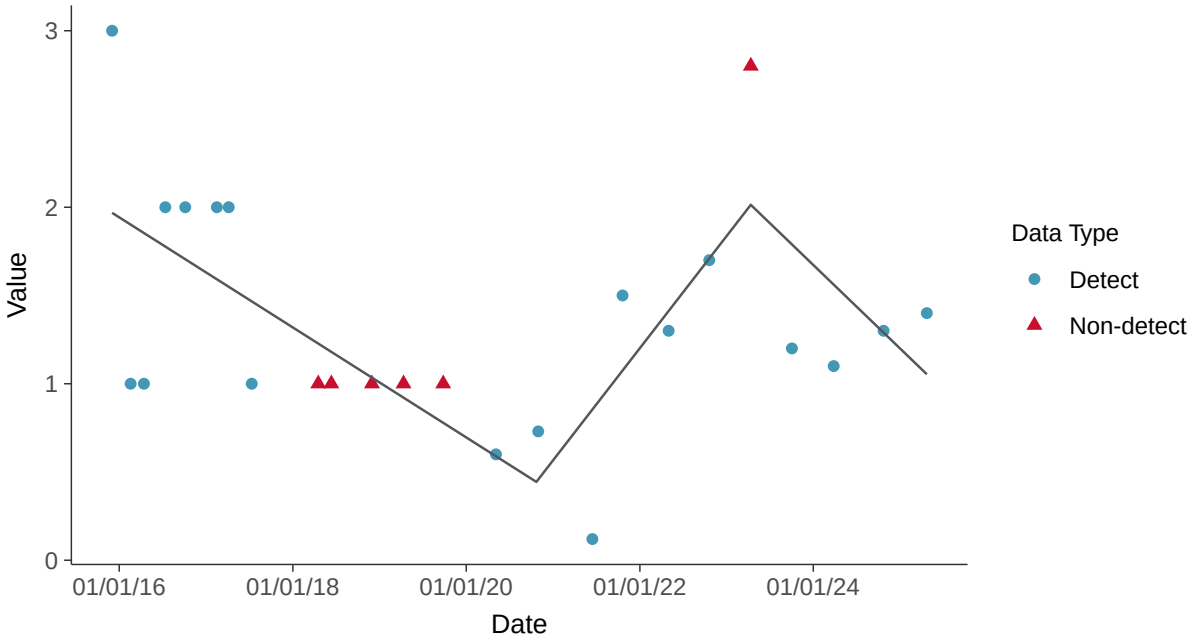
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-15021 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-15021 (ug/L)

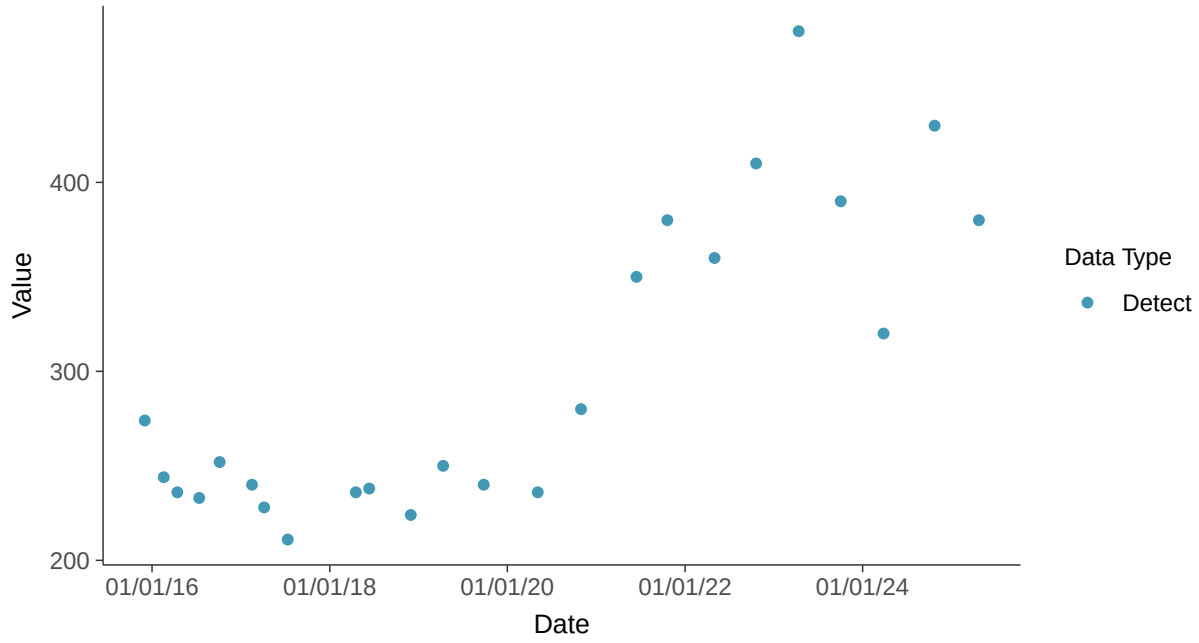


Appendix IV: Barium, MW-15021

ID: 11_2_103

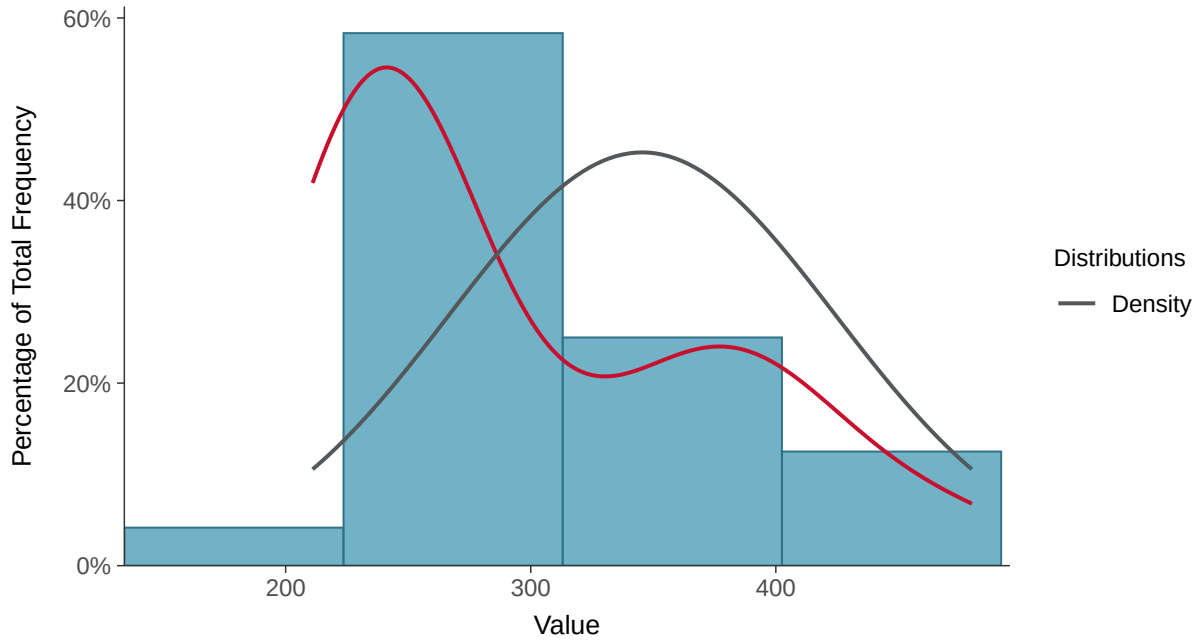
Scatter Plot

Barium, MW-15021 (ug/L)



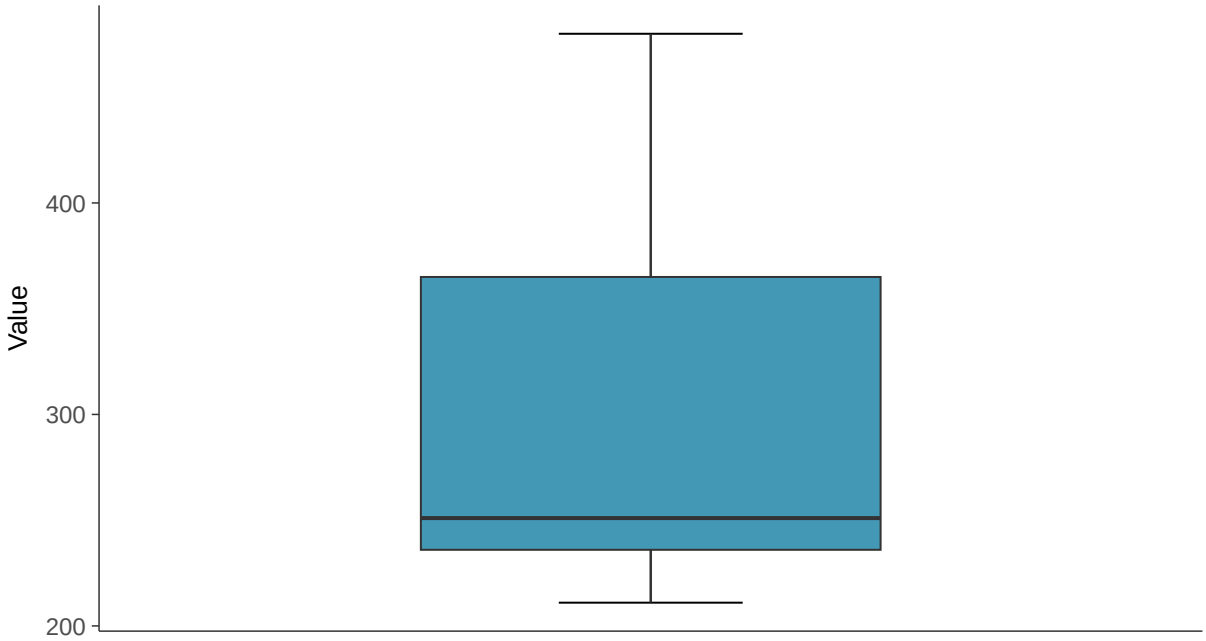
Histogram

Barium, MW-15021 (ug/L)



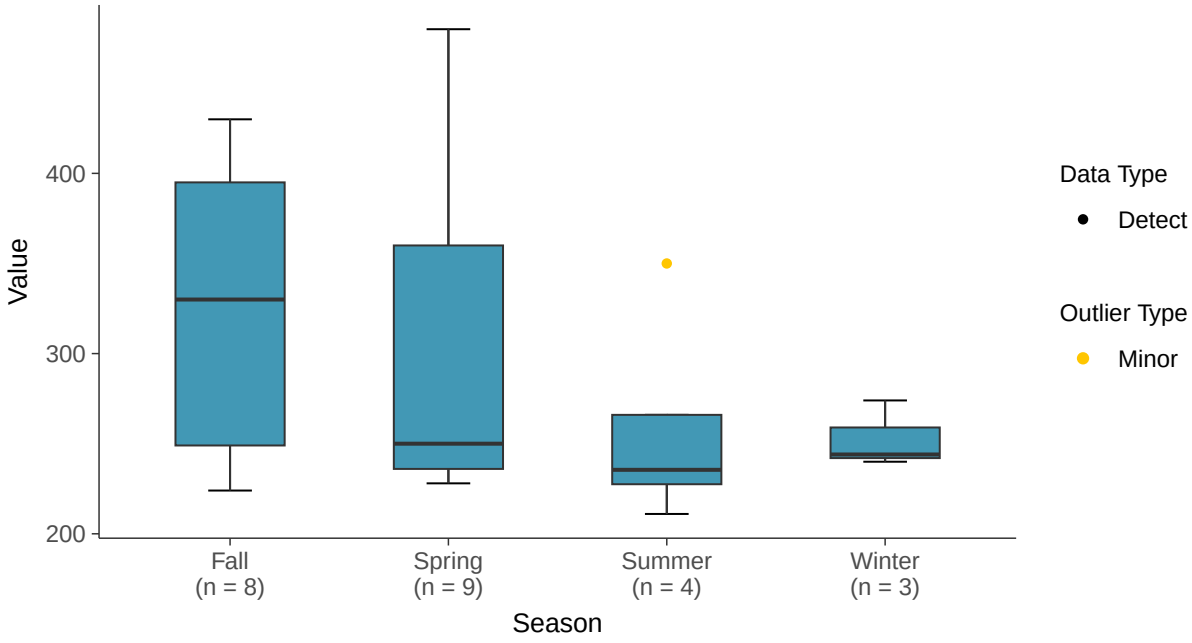
Boxplot

Barium, MW-15021 (ug/L)



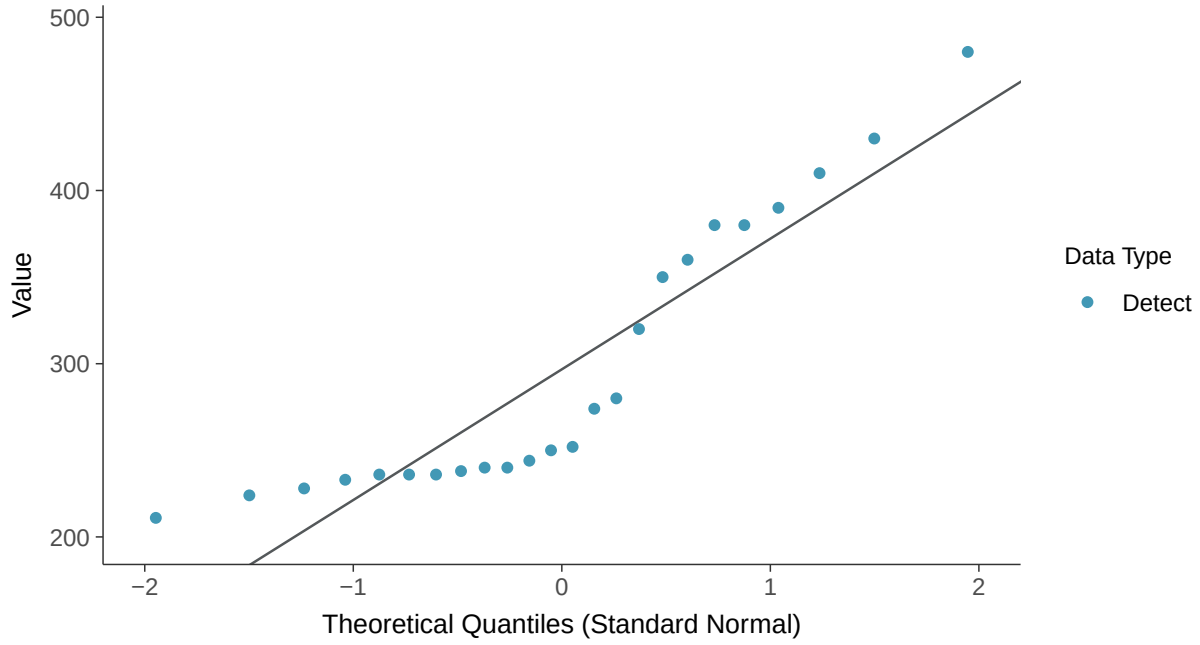
Boxplot by Season

Barium, MW-15021 (ug/L)



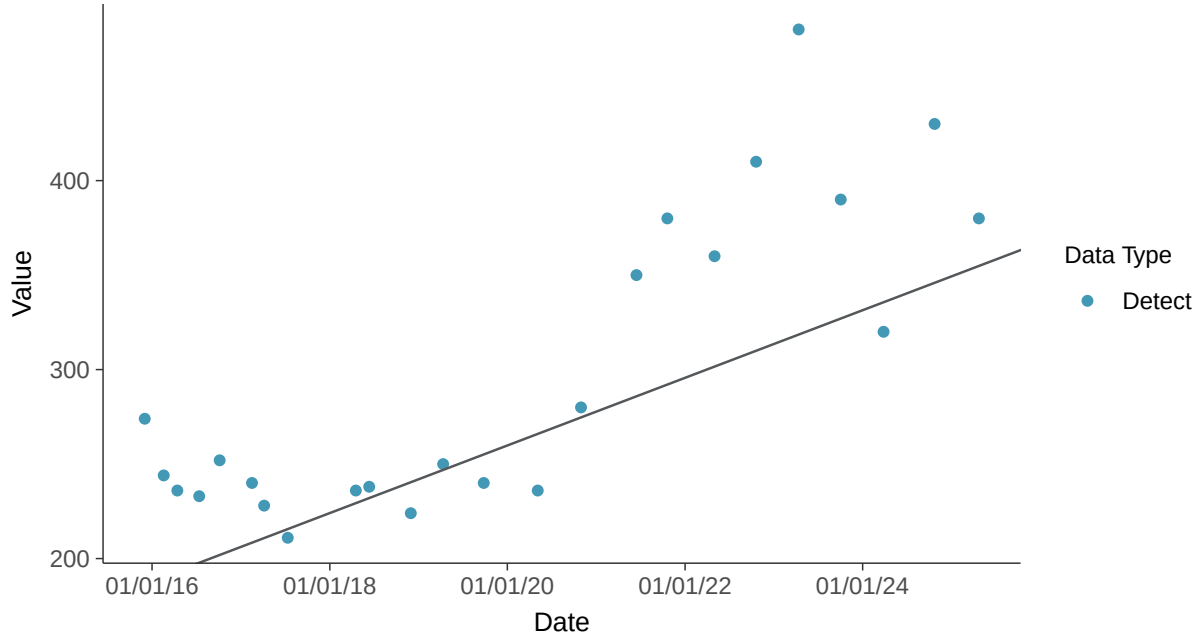
Normal Q-Q plot

Barium, MW-15021 (ug/L)



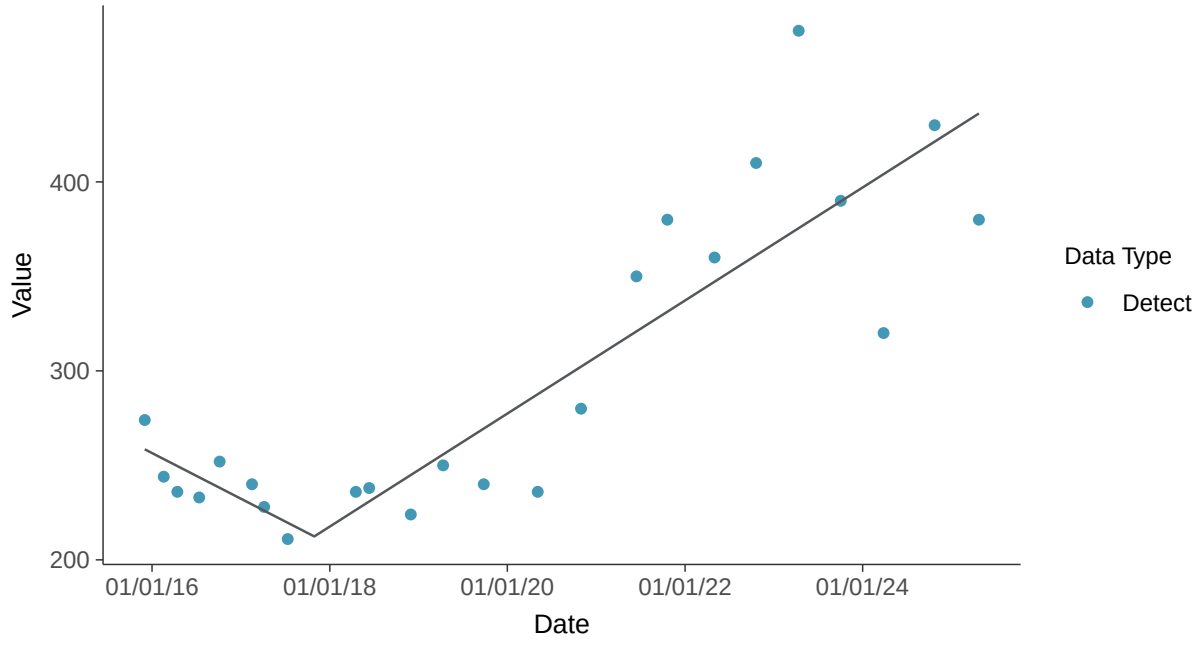
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Barium, MW-15021 (ug/L)



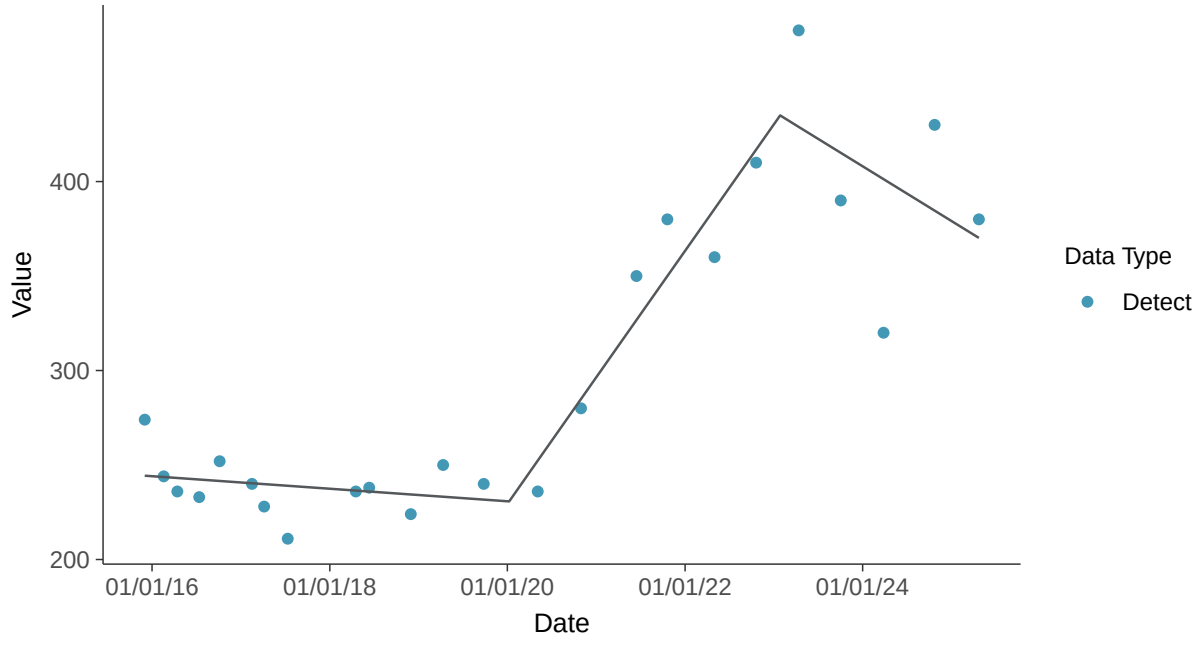
Trend Regression: Piecewise Linear-Linear

Barium, MW-15021 (ug/L)



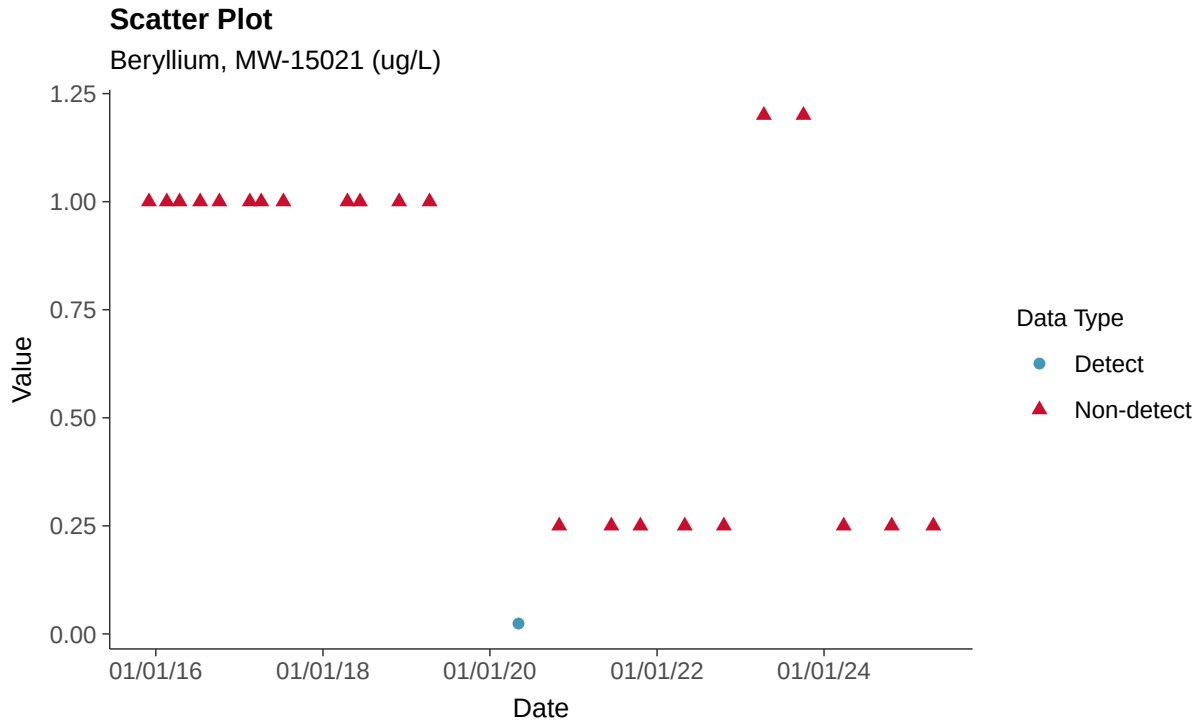
Trend Regression: Piecewise Linear-Linear-Linear

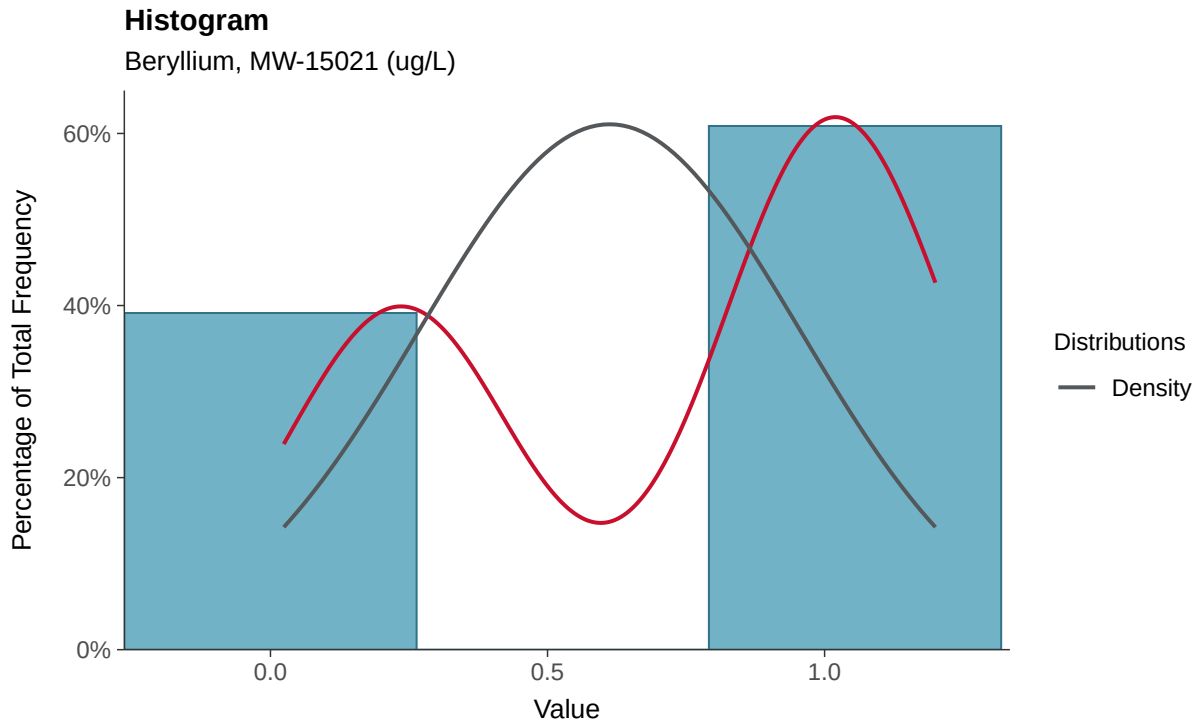
Barium, MW-15021 (ug/L)



Appendix IV: Beryllium, MW-15021

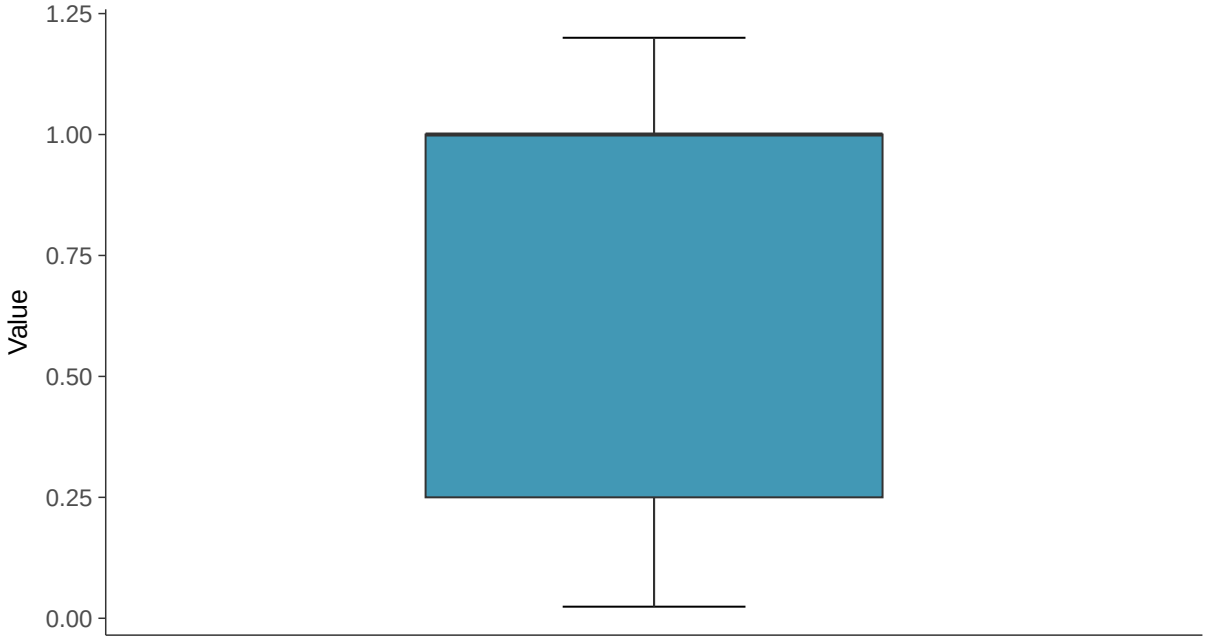
ID: 11_2_104





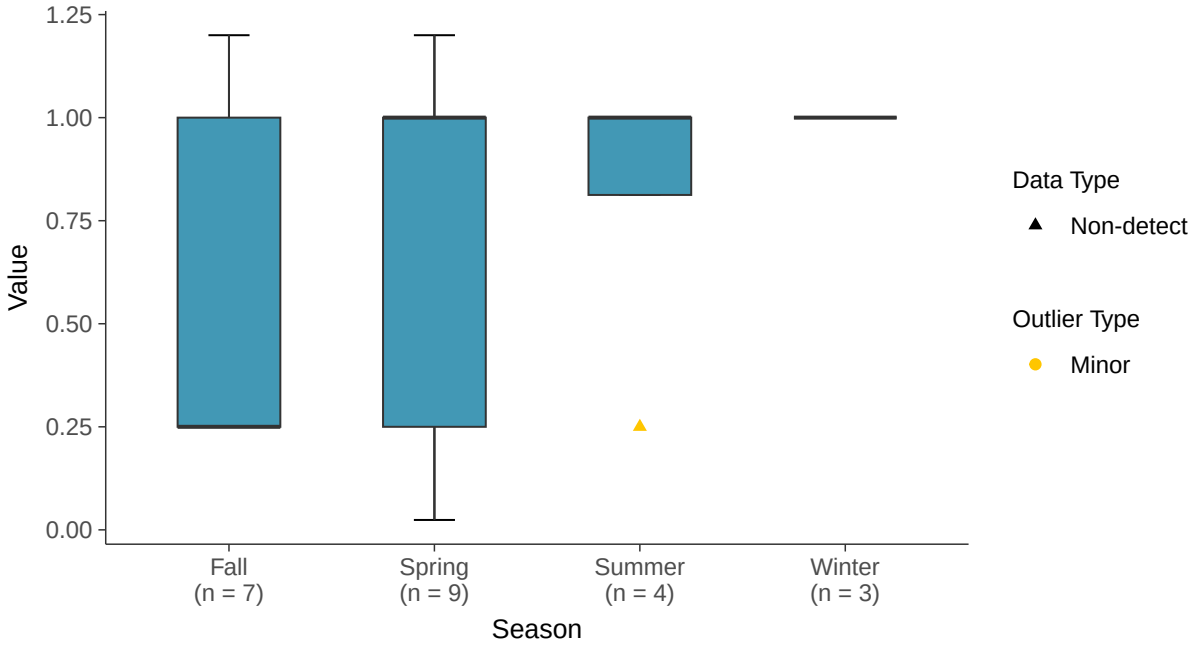
Boxplot

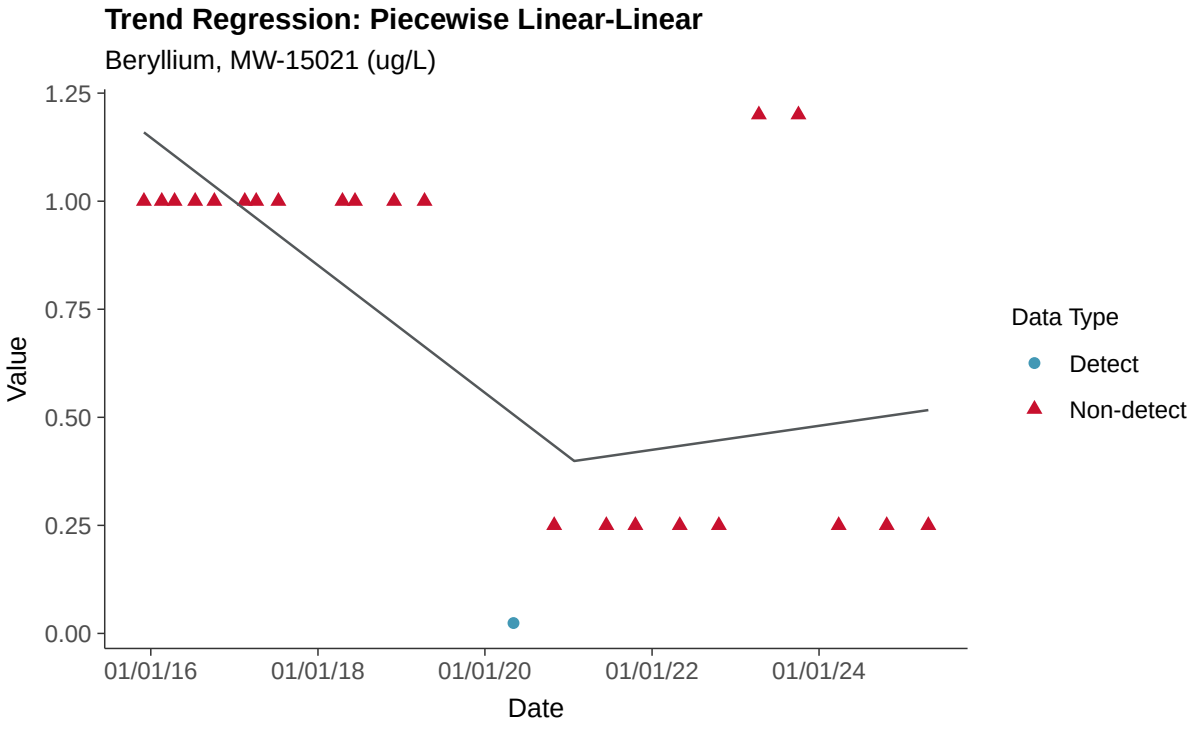
Beryllium, MW-15021 (ug/L)



Boxplot by Season

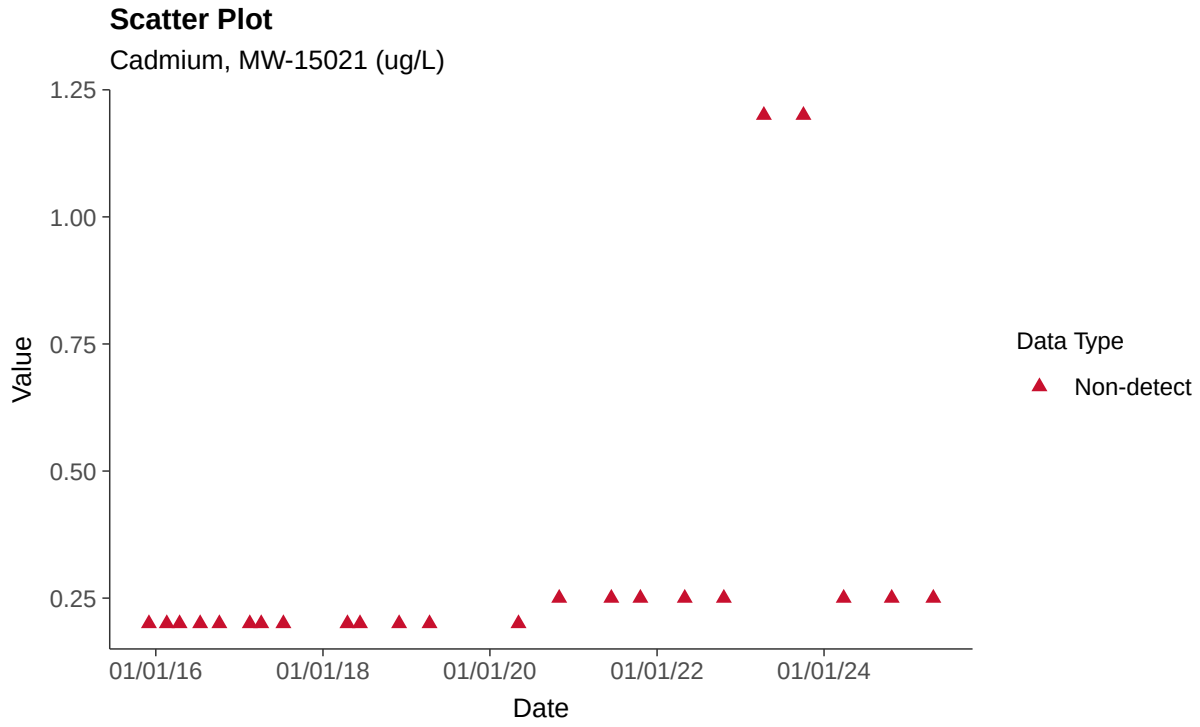
Beryllium, MW-15021 (ug/L)

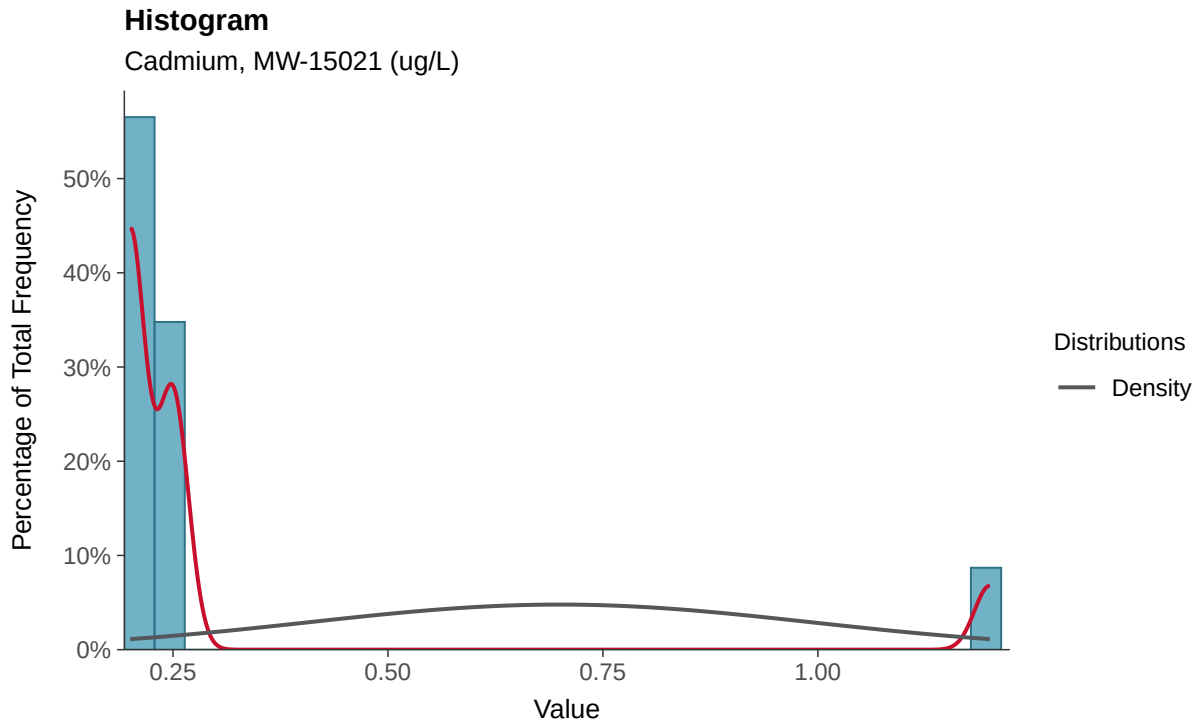



Trend Regression: Piecewise Linear-Linear
Beryllium, MW-15021 (ug/L)
Value
1.25
1.00
0.75
0.50
0.25
0.00
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Detect
Non-detect

Appendix IV: Cadmium, MW-15021

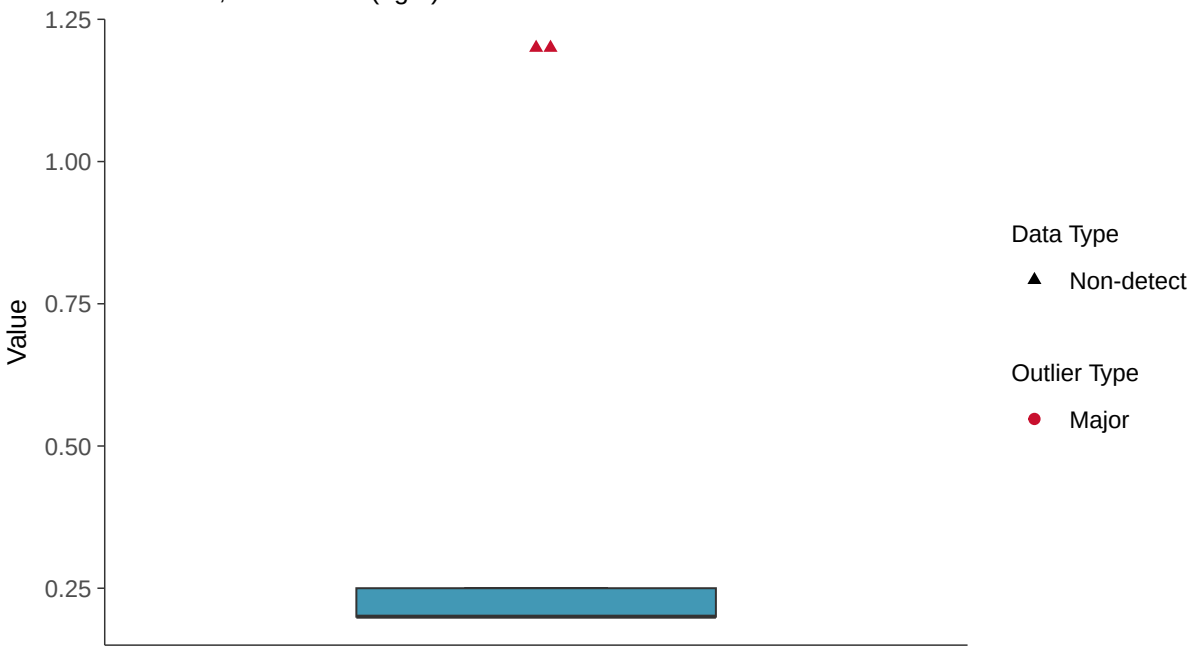
ID: 11_2_106





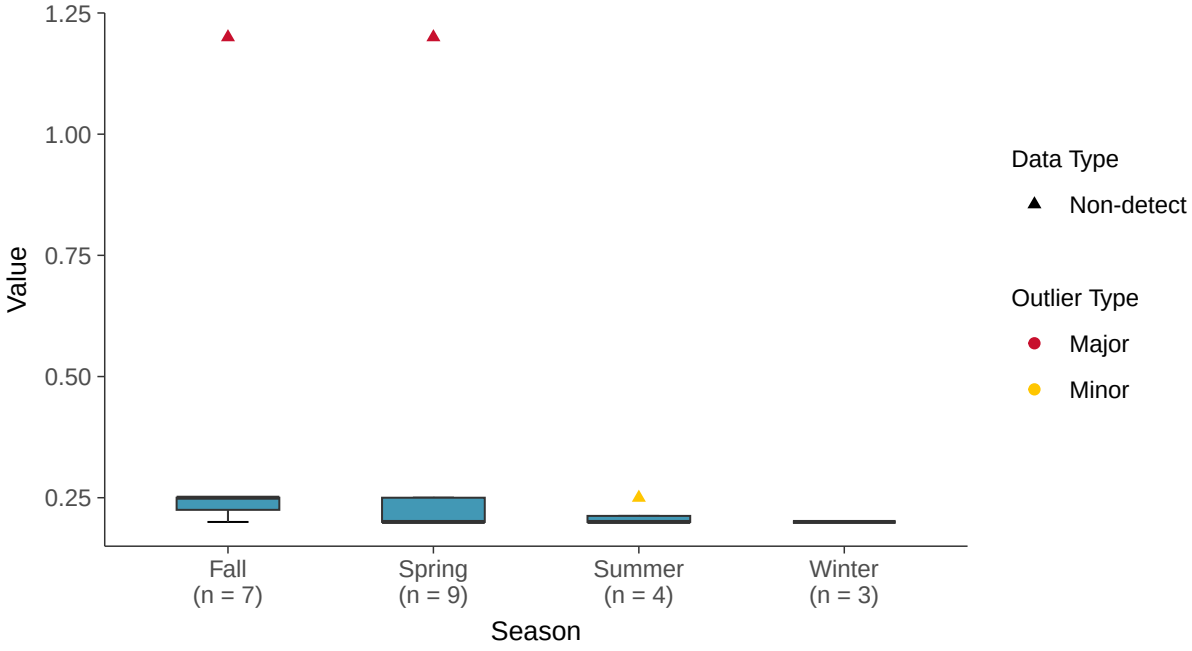
Boxplot

Cadmium, MW-15021 (ug/L)



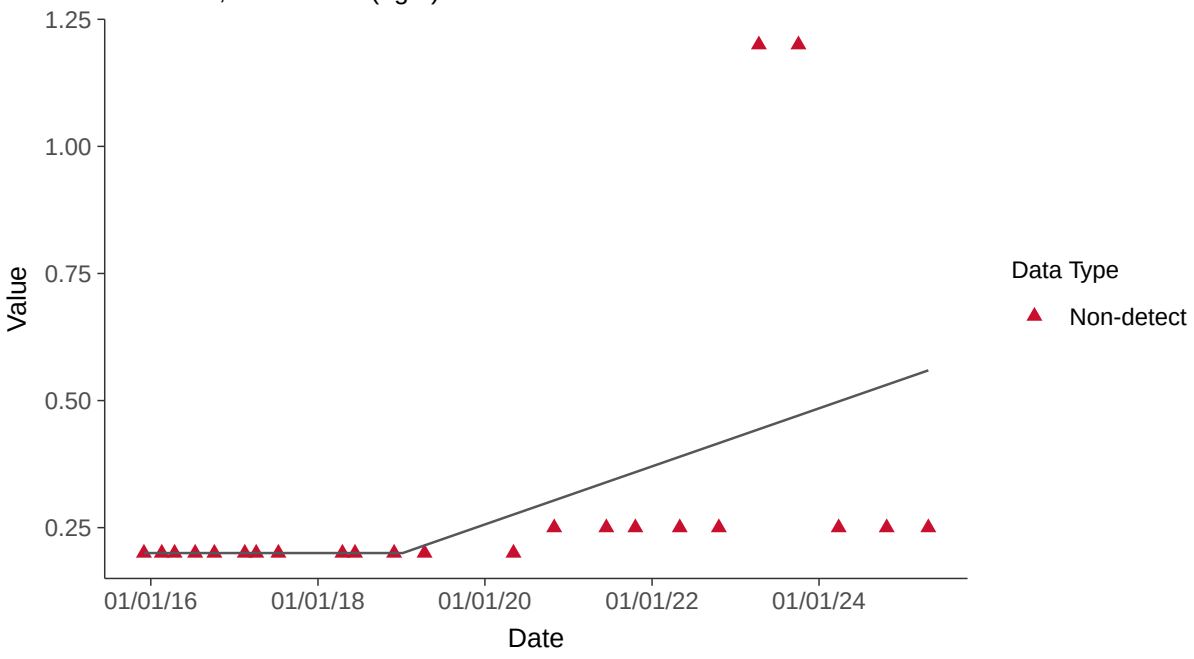
Boxplot by Season

Cadmium, MW-15021 (ug/L)



Trend Regression: Piecewise Linear-Linear

Cadmium, MW-15021 (ug/L)

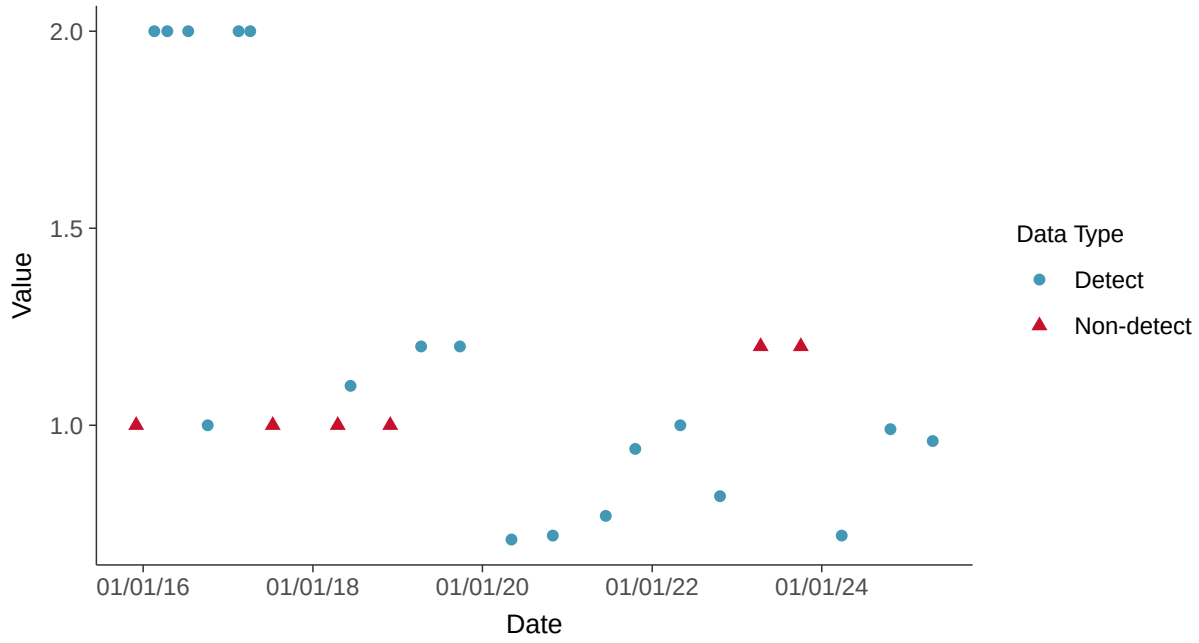


Appendix IV: Chromium, MW-15021

ID: 11_2_109

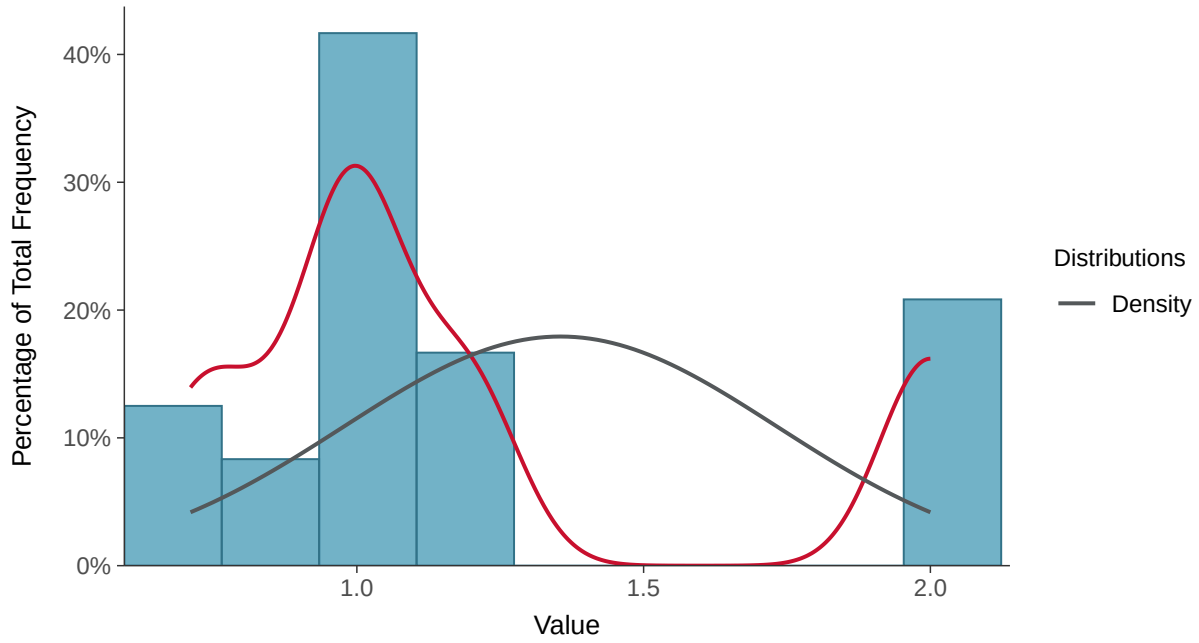
Scatter Plot

Chromium, MW-15021 (ug/L)



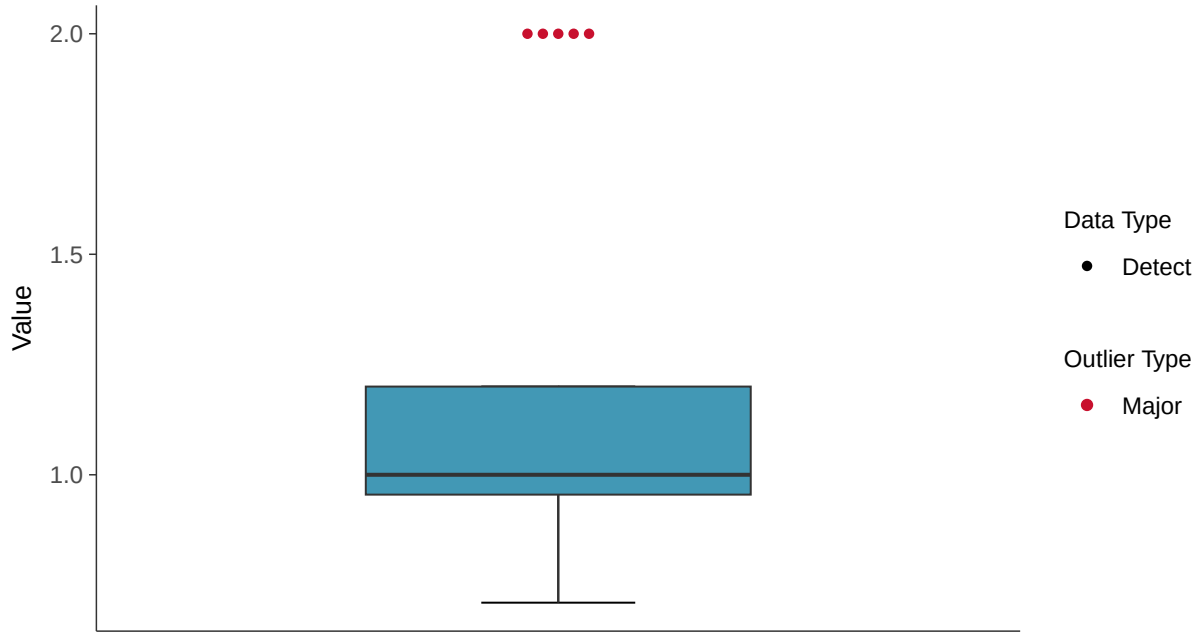
Histogram

Chromium, MW-15021 (ug/L)



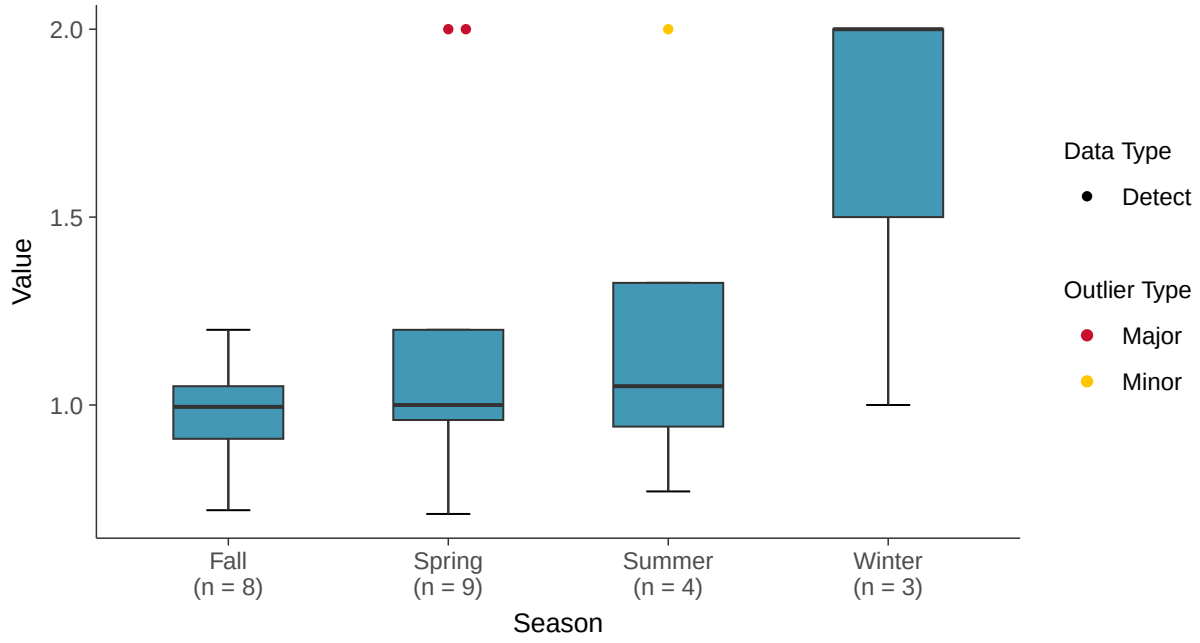
Boxplot

Chromium, MW-15021 (ug/L)



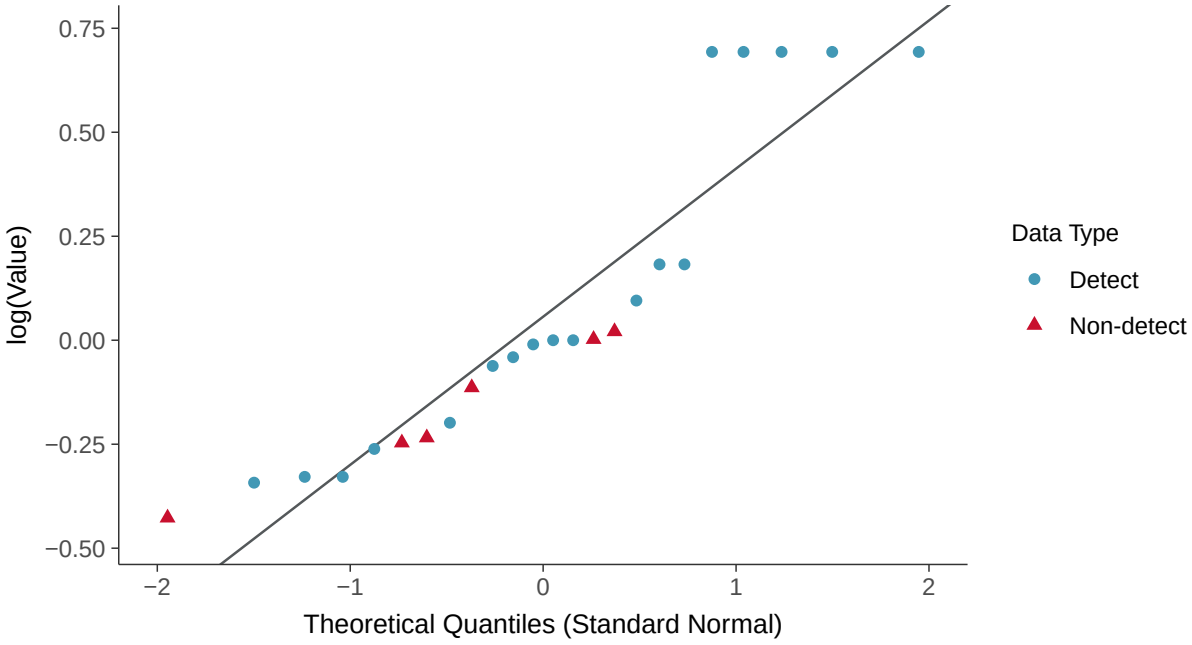
Boxplot by Season

Chromium, MW-15021 (ug/L)



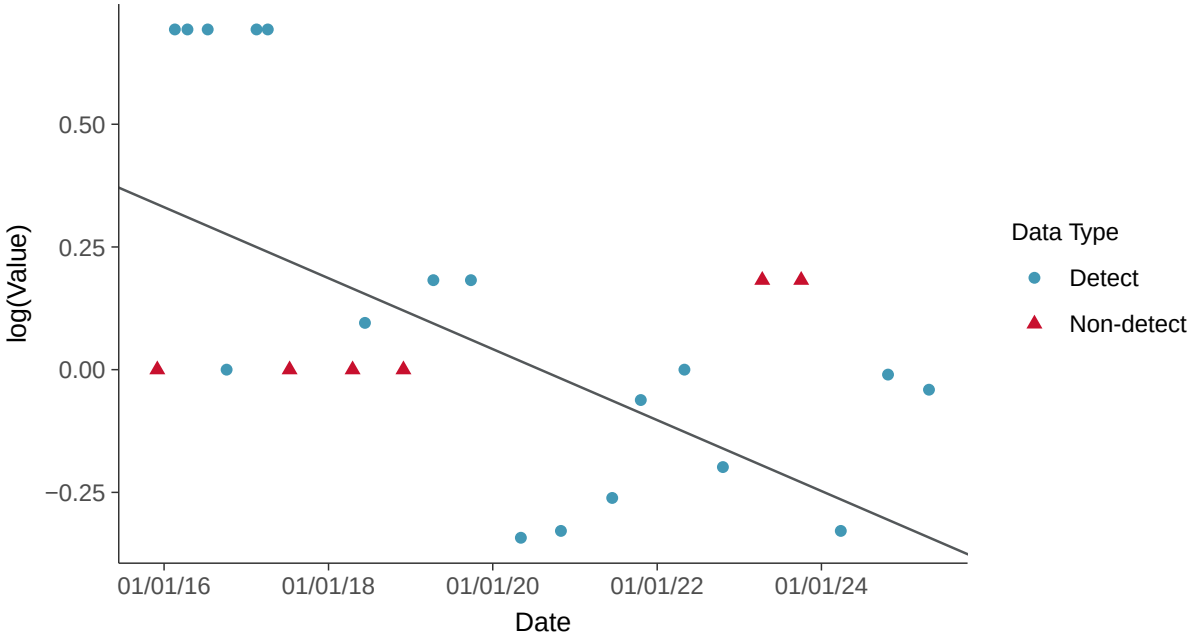
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15021 (ug/L)



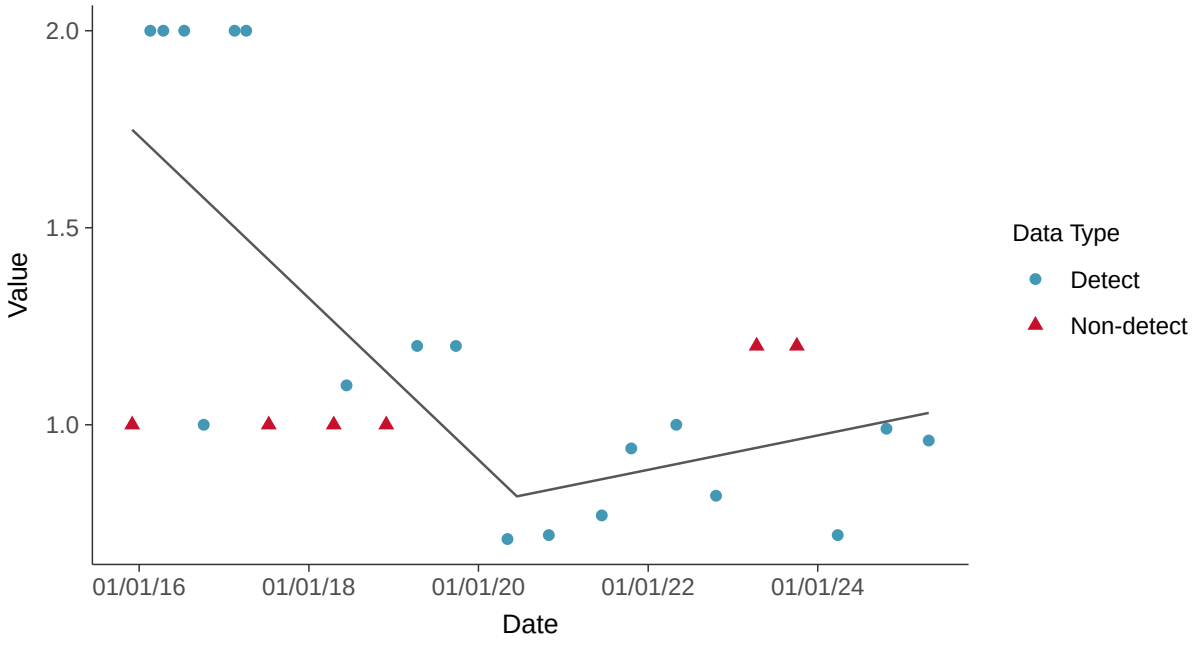
Trend Regression: Lognormal MLE

Chromium, MW-15021 (ug/L)



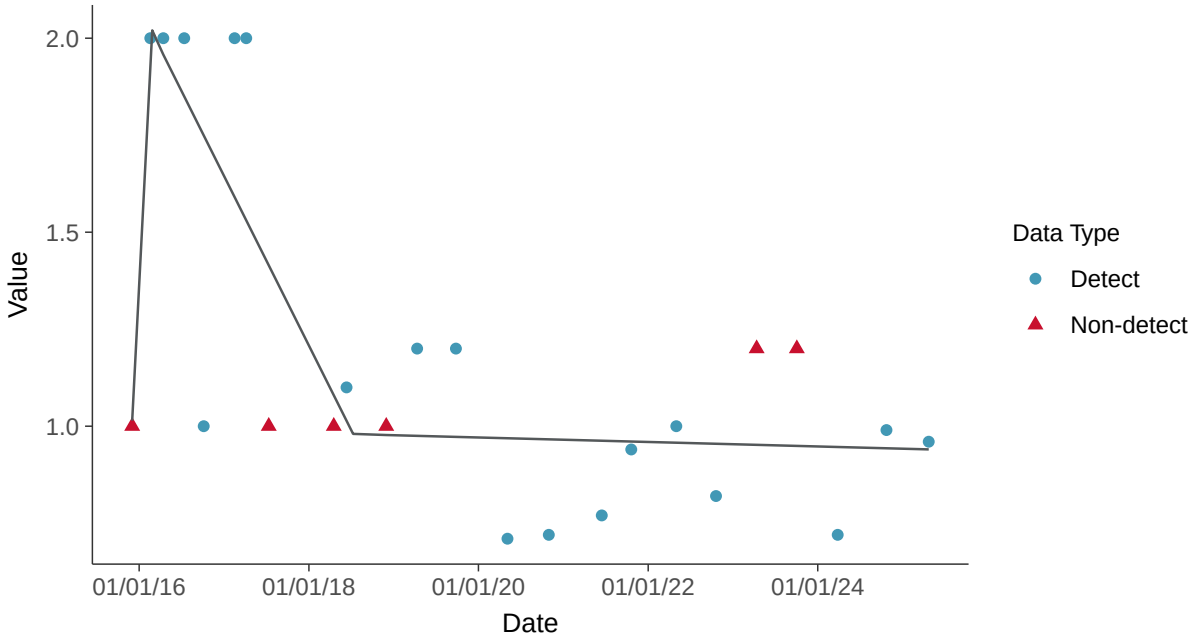
Trend Regression: Piecewise Linear-Linear

Chromium, MW-15021 (ug/L)



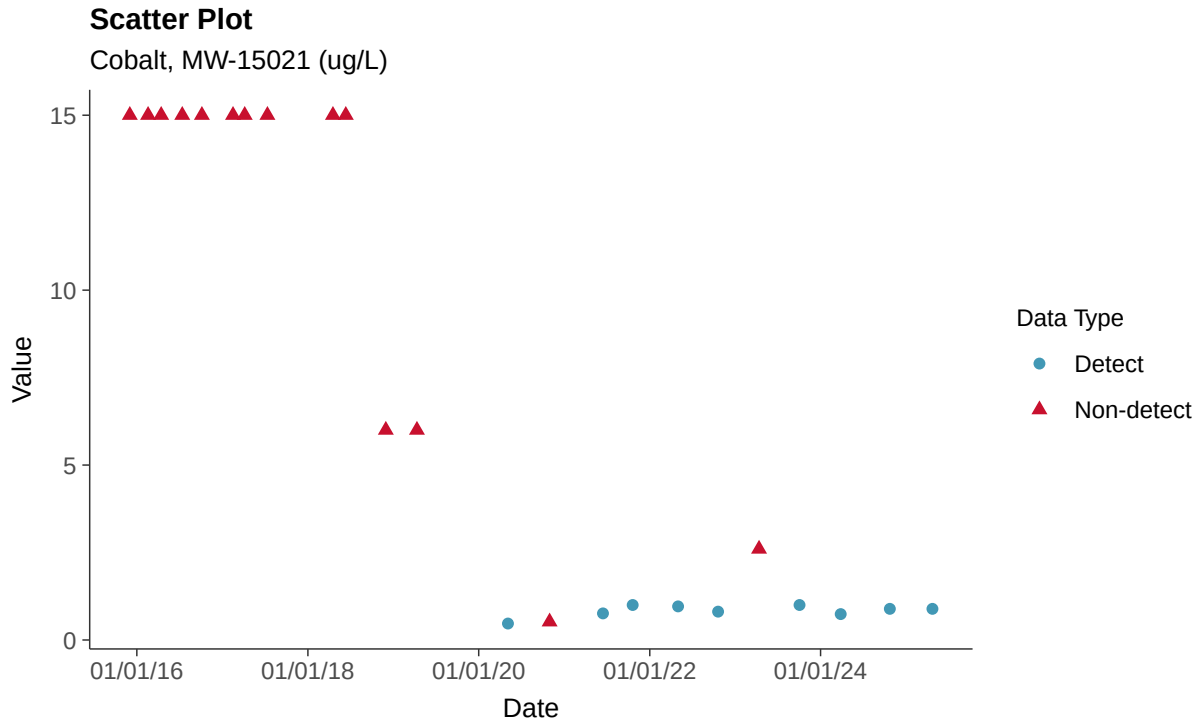
Trend Regression: Piecewise Linear-Linear-Linear

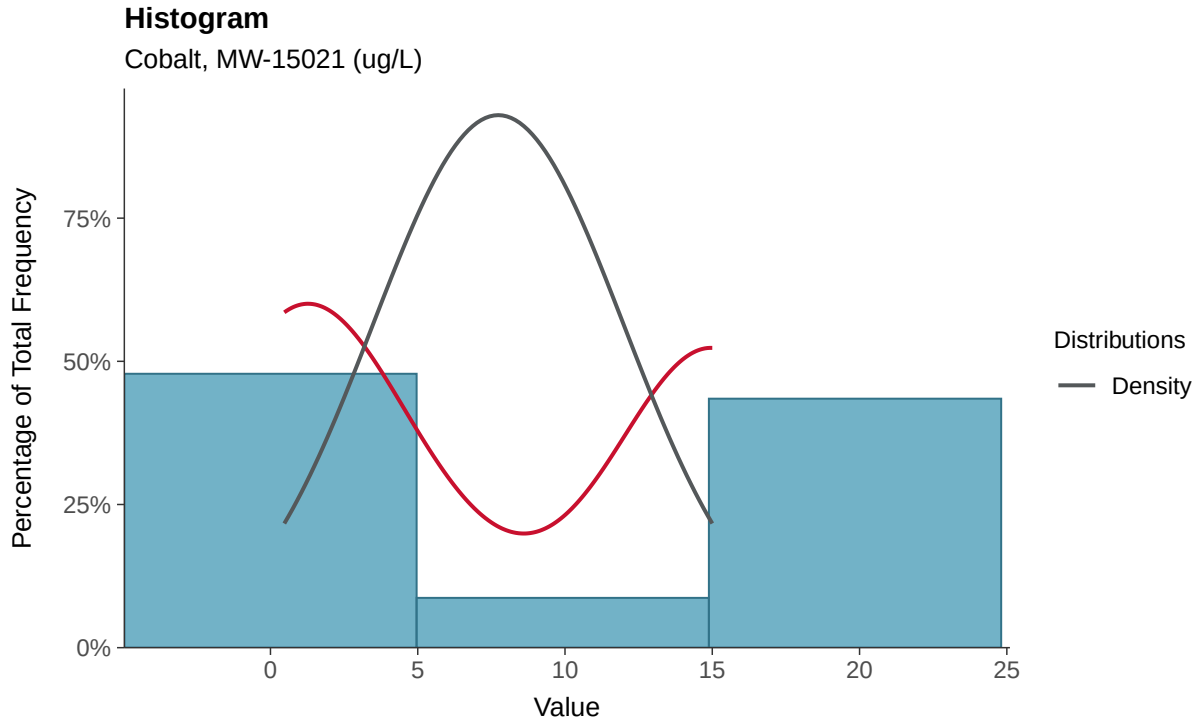
Chromium, MW-15021 (ug/L)



Appendix IV: Cobalt, MW-15021

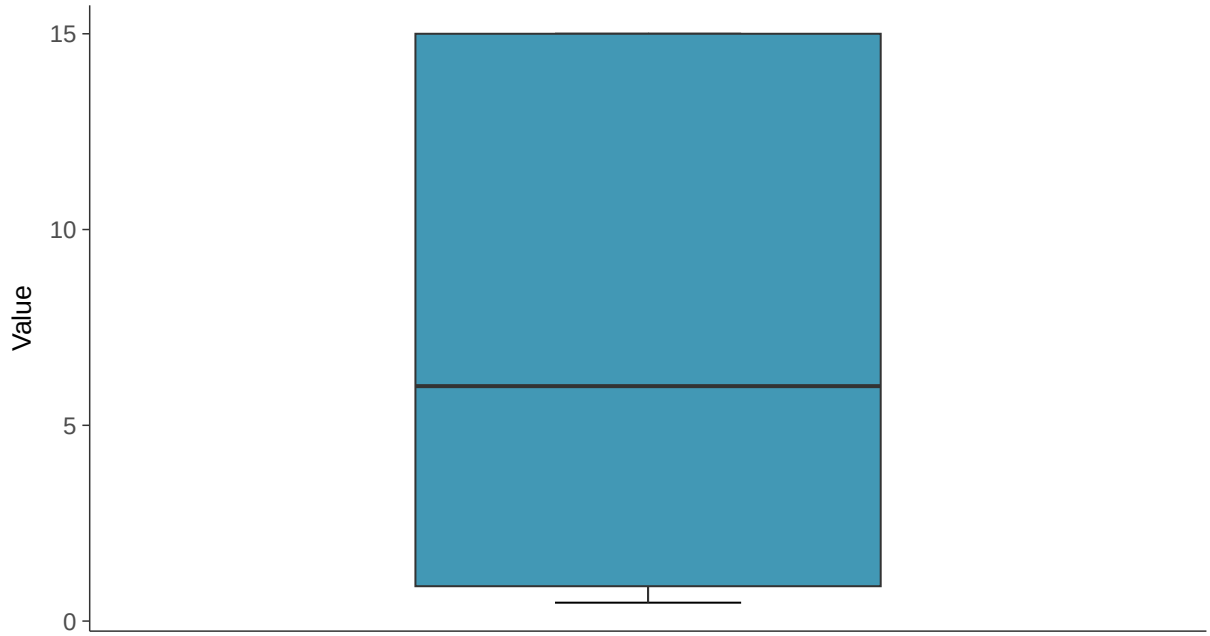
ID: 11_2_110





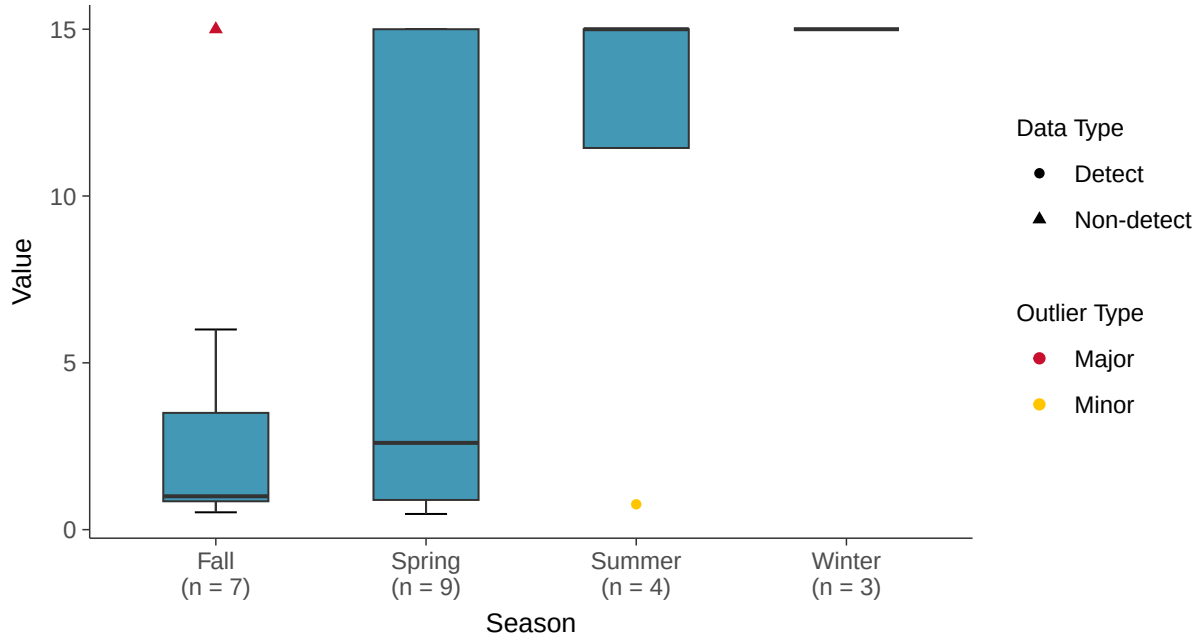
Boxplot

Cobalt, MW-15021 (ug/L)



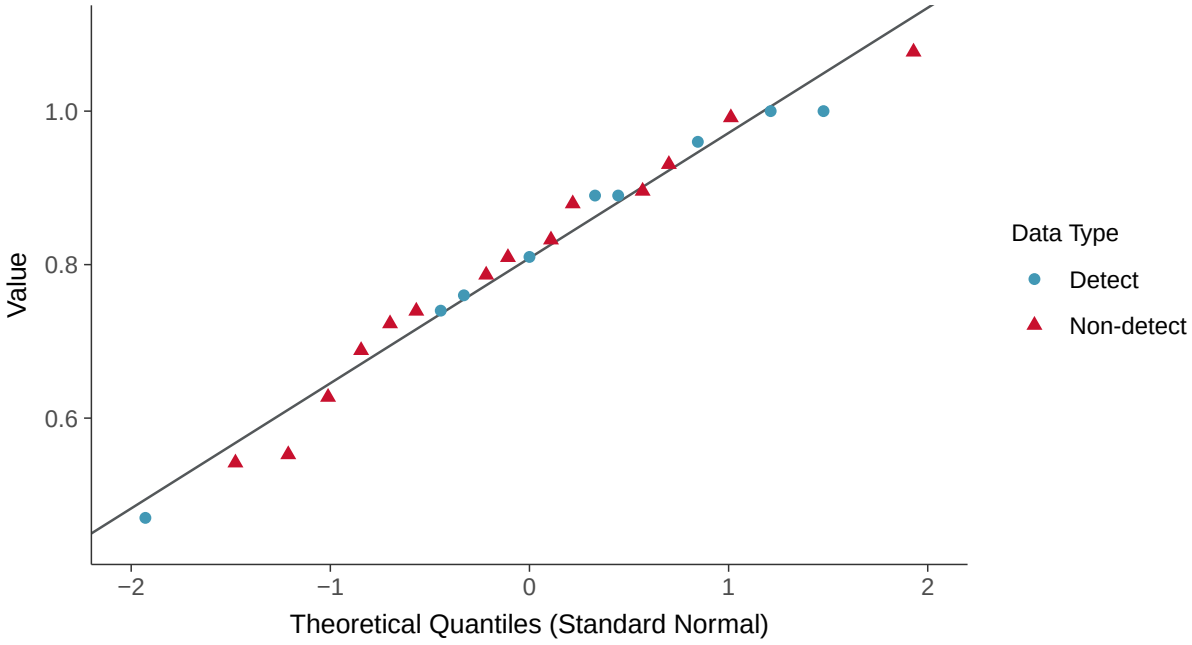
Boxplot by Season

Cobalt, MW-15021 (ug/L)



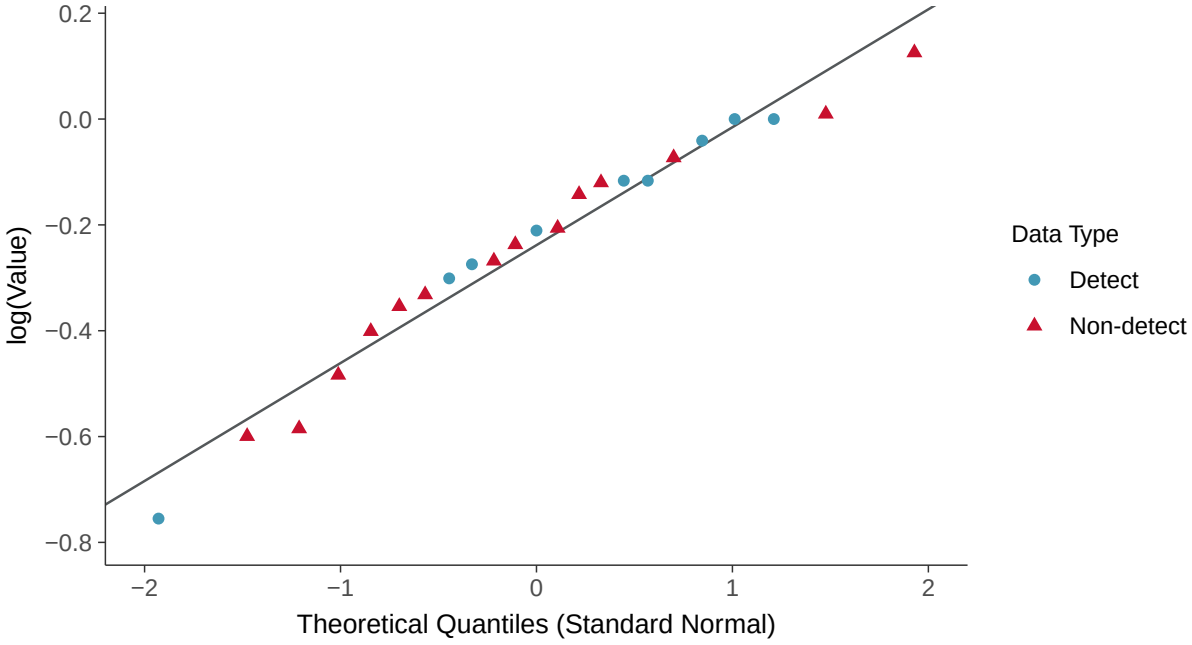
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15021 (ug/L)



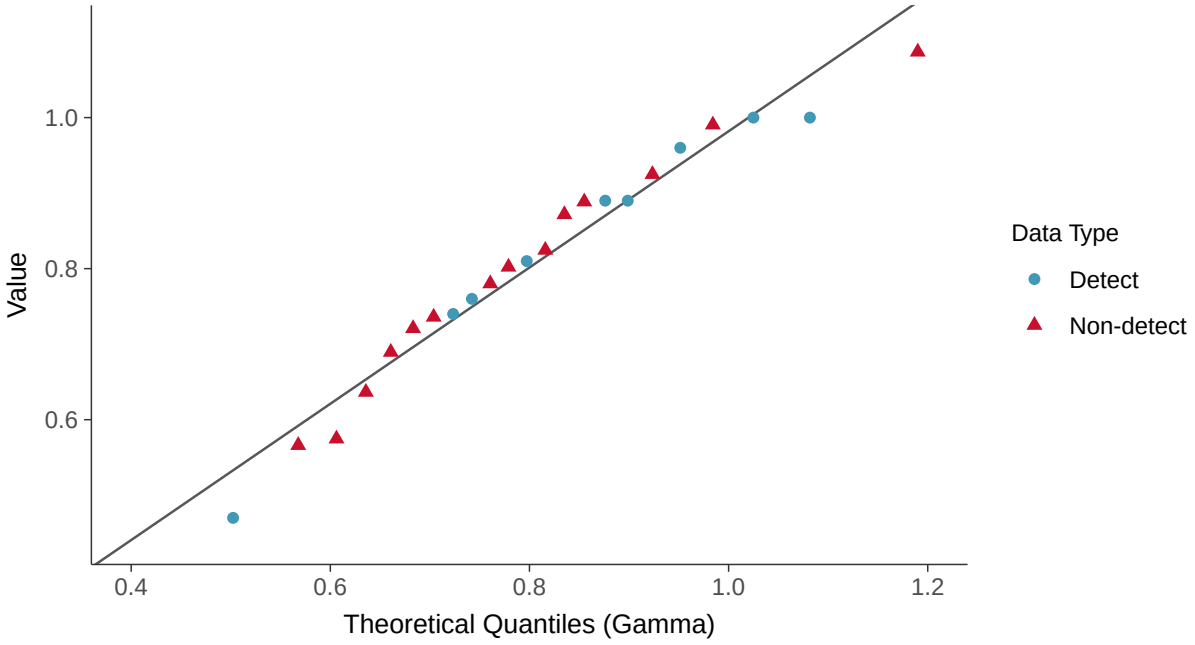
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15021 (ug/L)



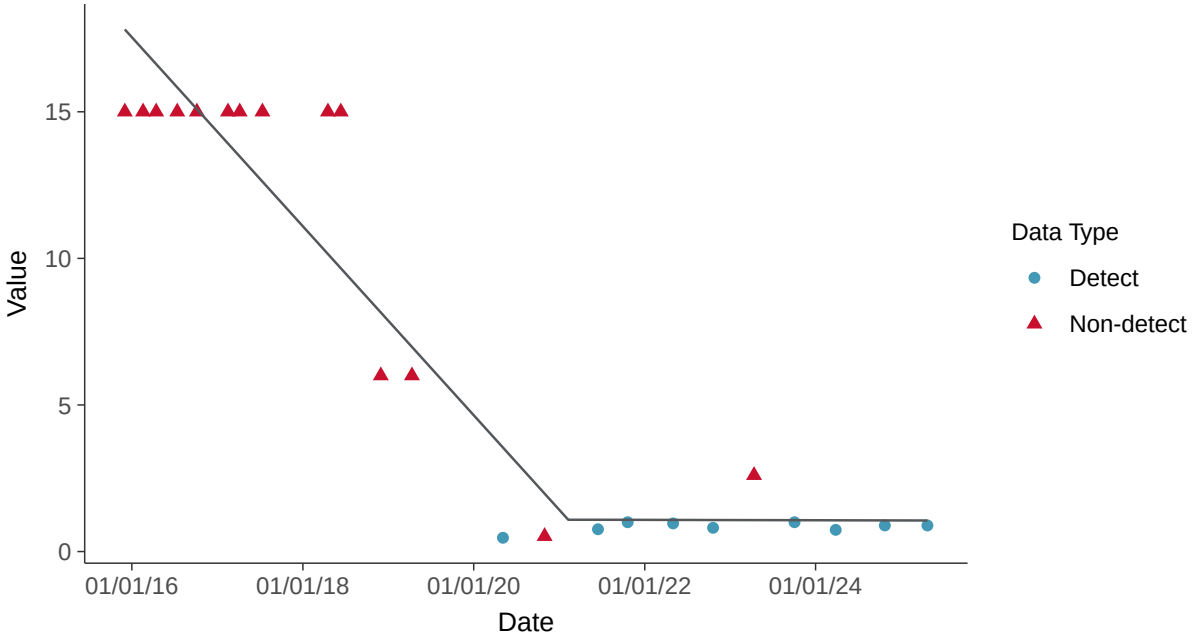
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15021 (ug/L)



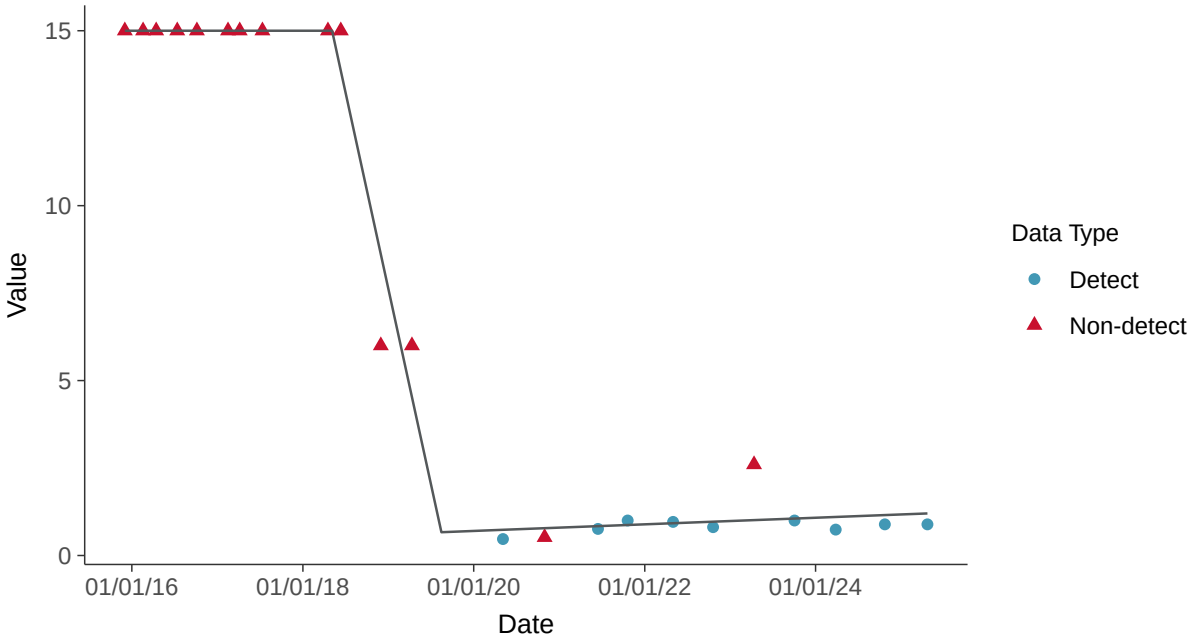
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15021 (ug/L)



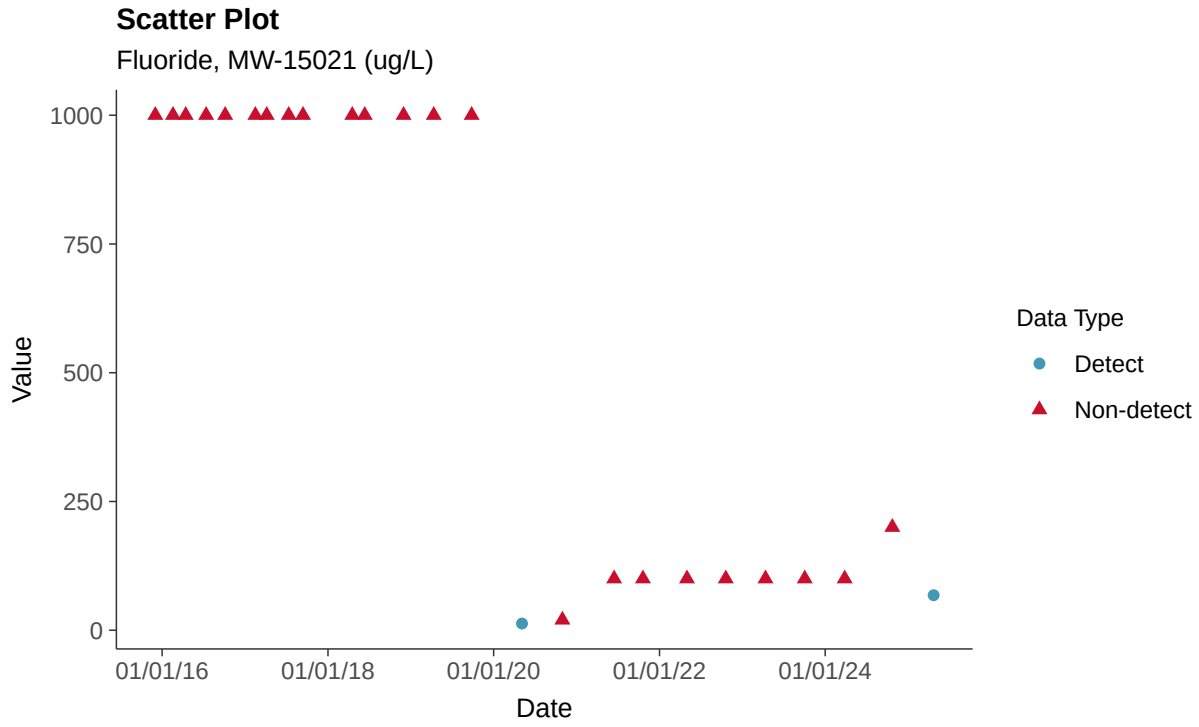
Trend Regression: Piecewise Linear-Linear-Linear

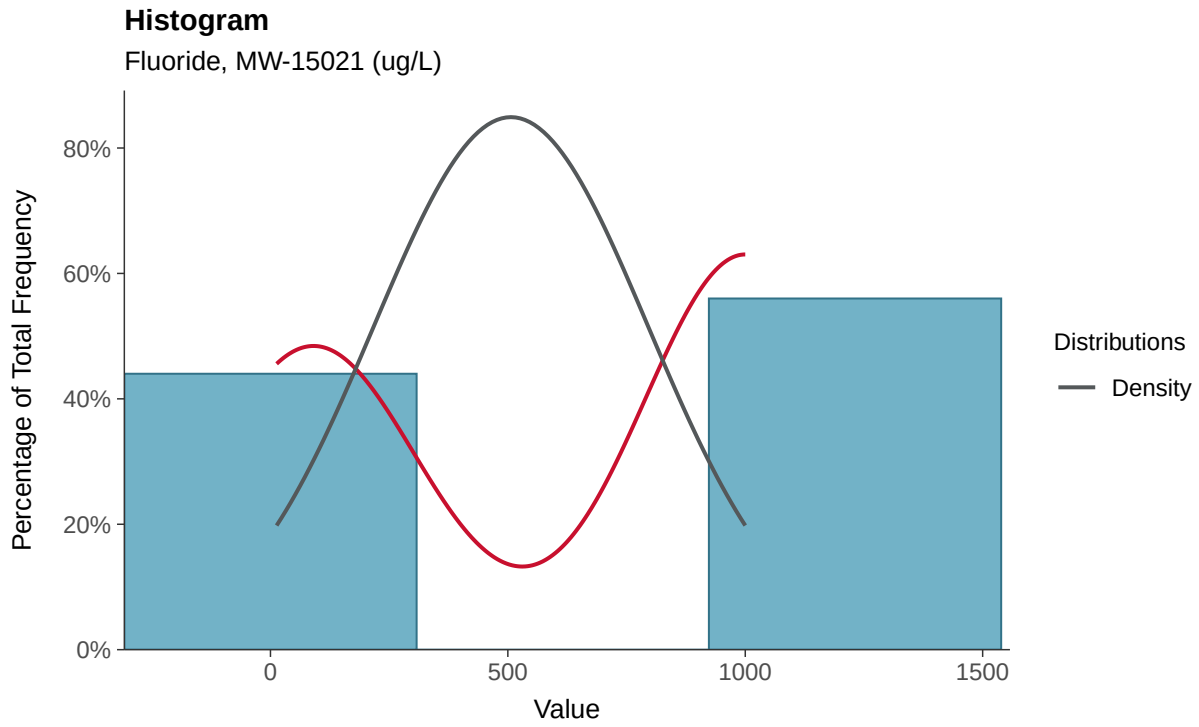
Cobalt, MW-15021 (ug/L)



Appendix IV: Fluoride, MW-15021

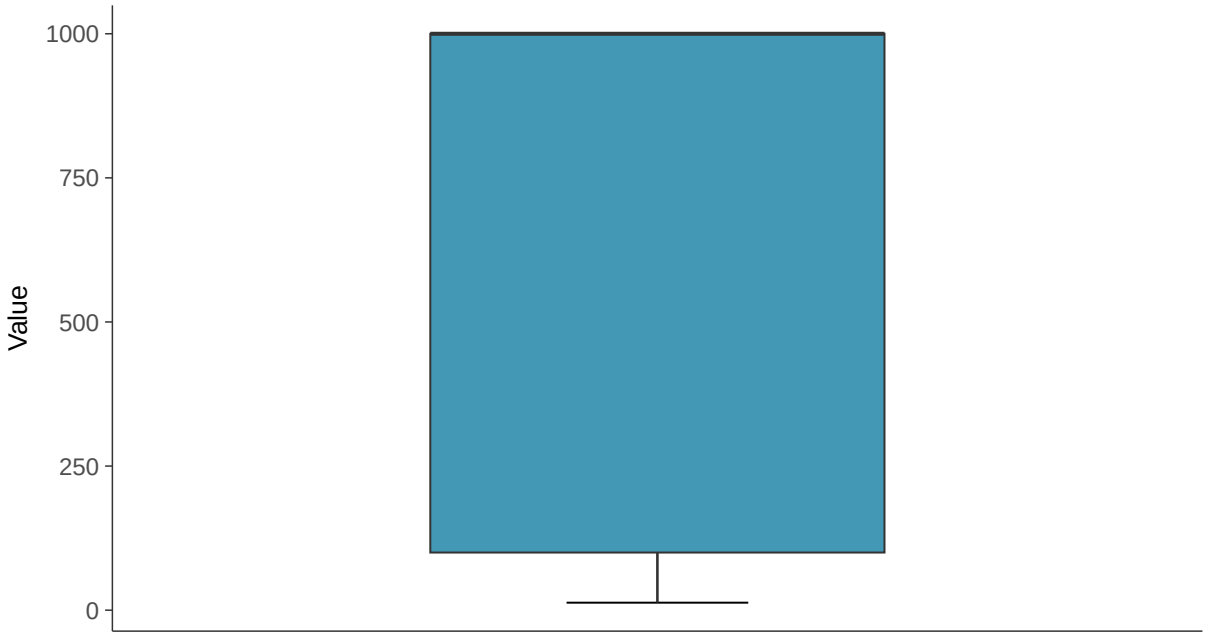
ID: 11_2_114





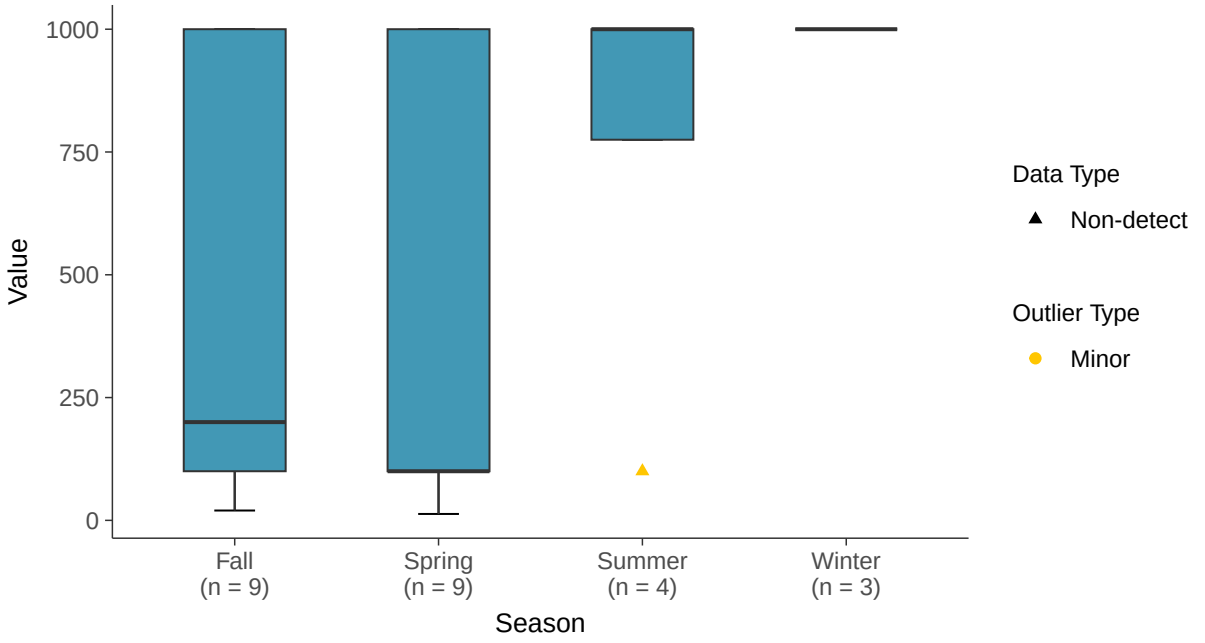
Boxplot

Fluoride, MW-15021 (ug/L)



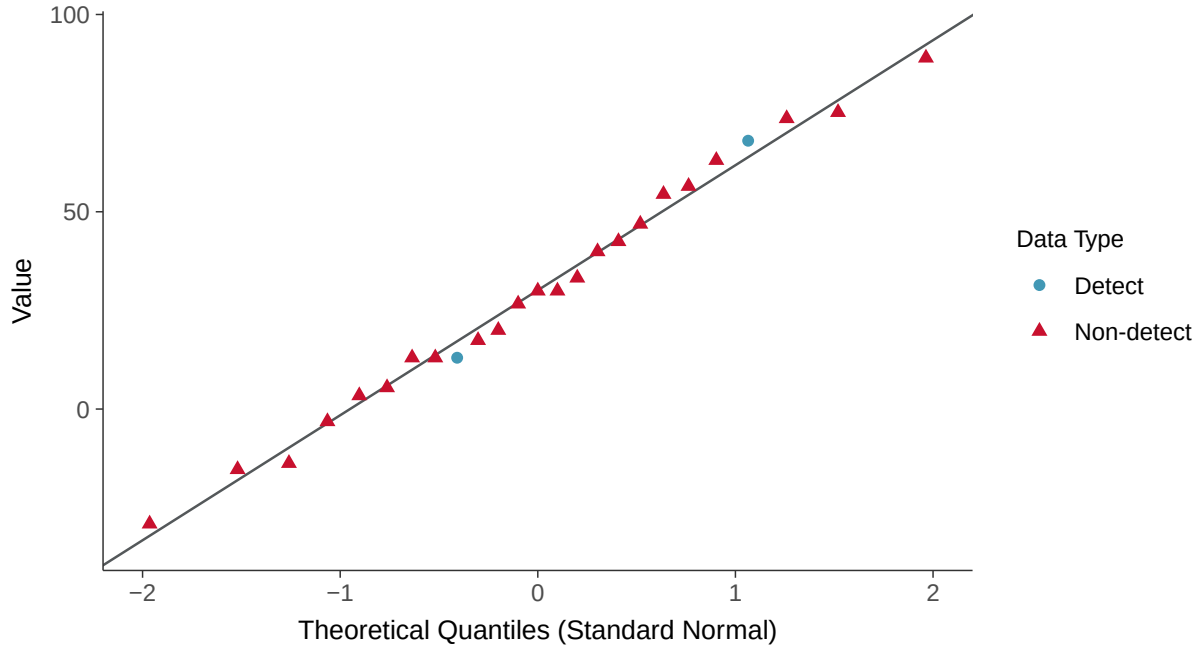
Boxplot by Season

Fluoride, MW-15021 (ug/L)



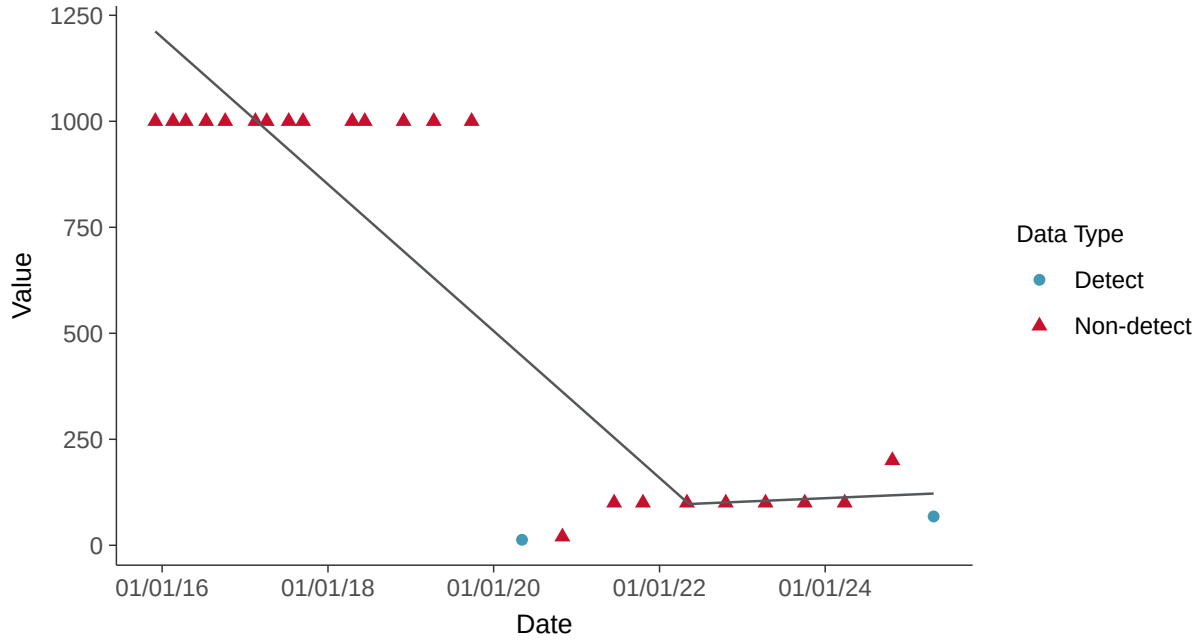
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15021 (ug/L)



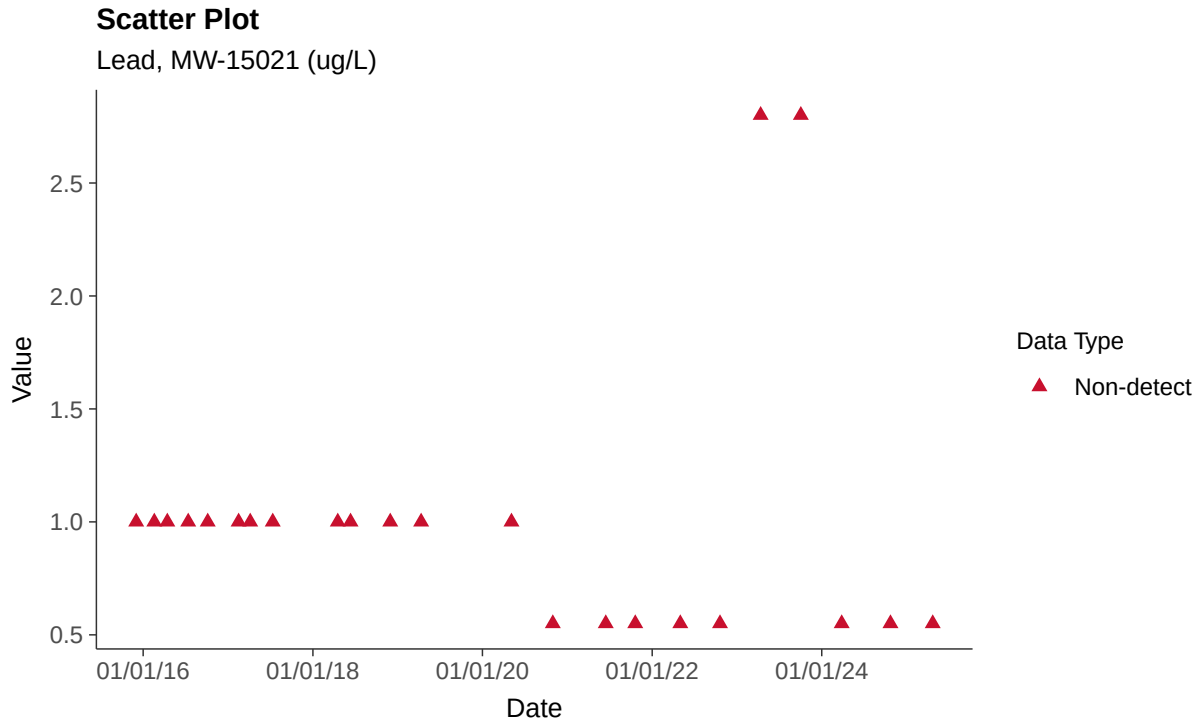
Trend Regression: Piecewise Linear-Linear

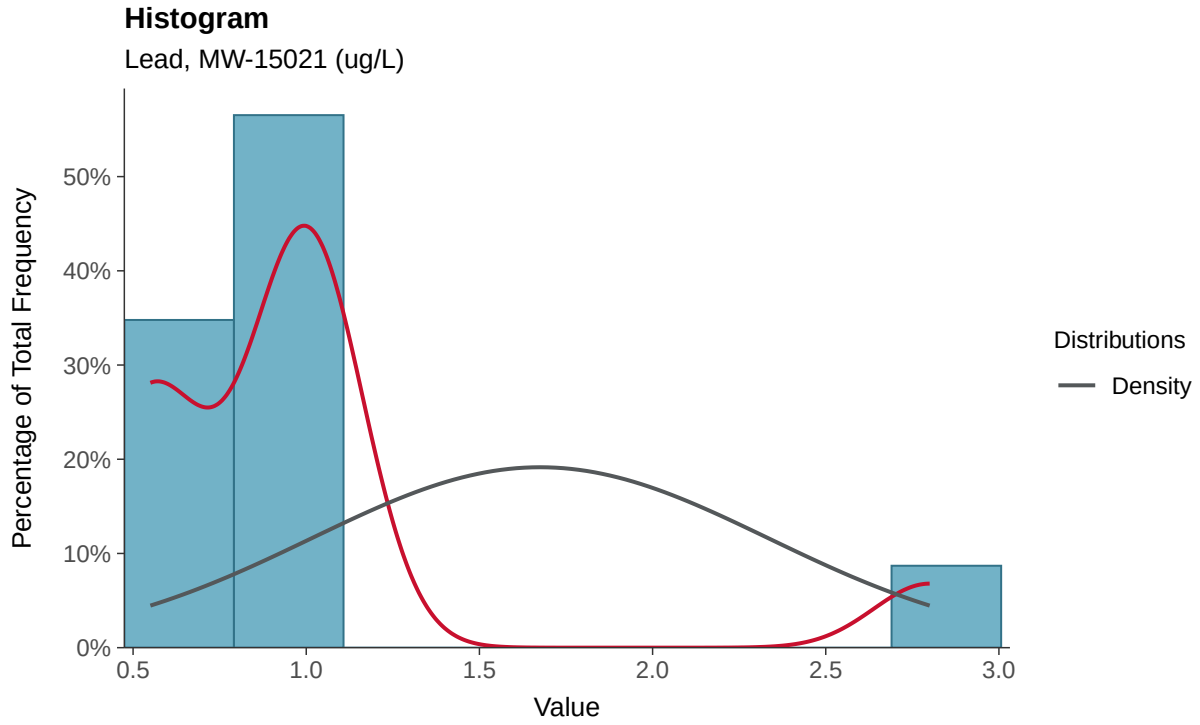
Fluoride, MW-15021 (ug/L)



Appendix IV: Lead, MW-15021

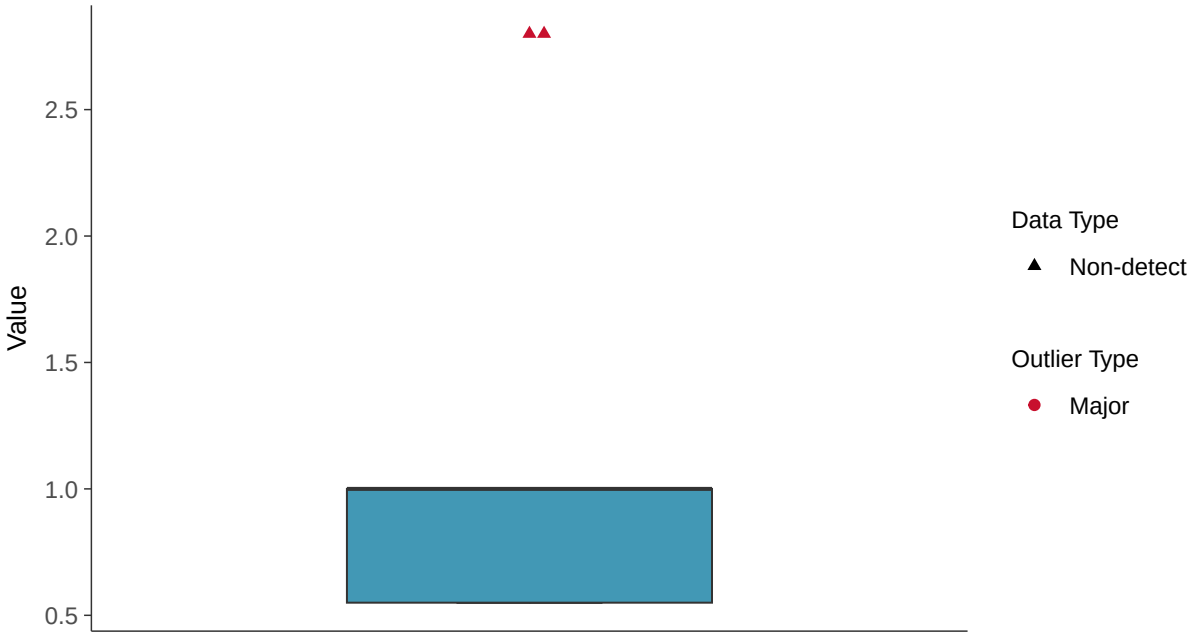
ID: 11_2_116





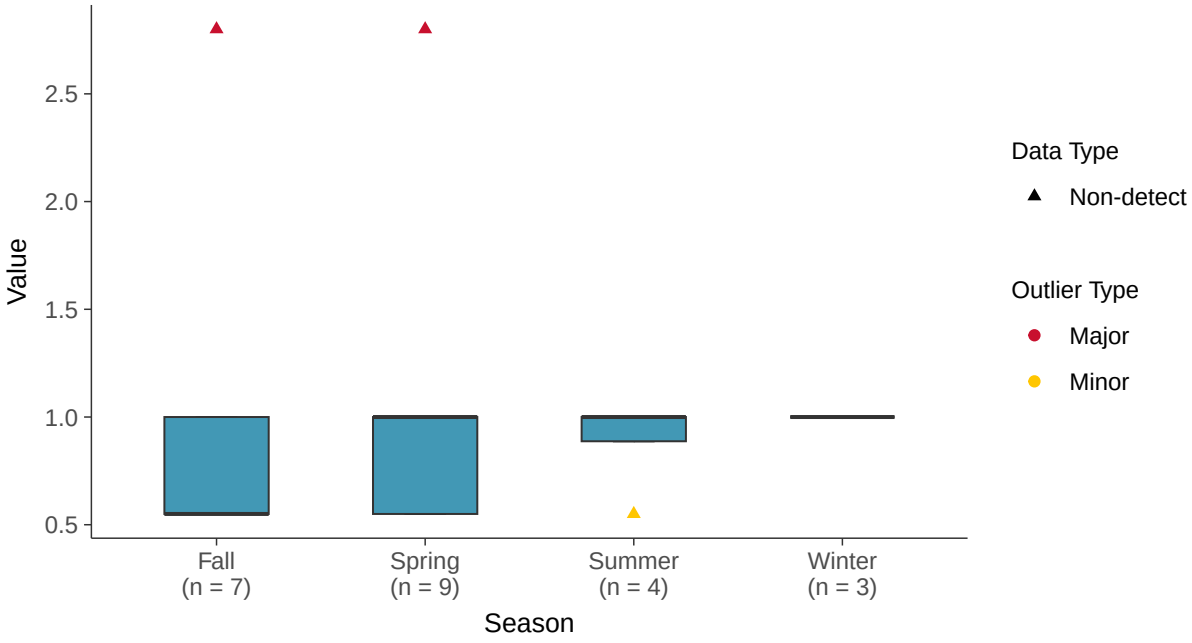
Boxplot

Lead, MW-15021 (ug/L)



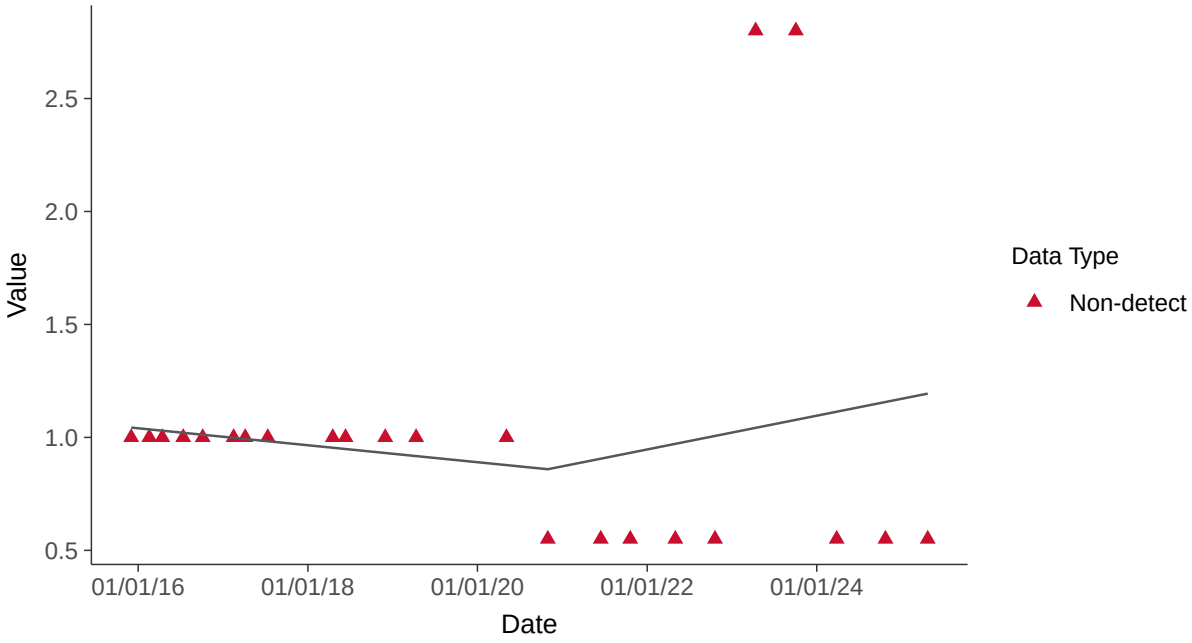
Boxplot by Season

Lead, MW-15021 (ug/L)



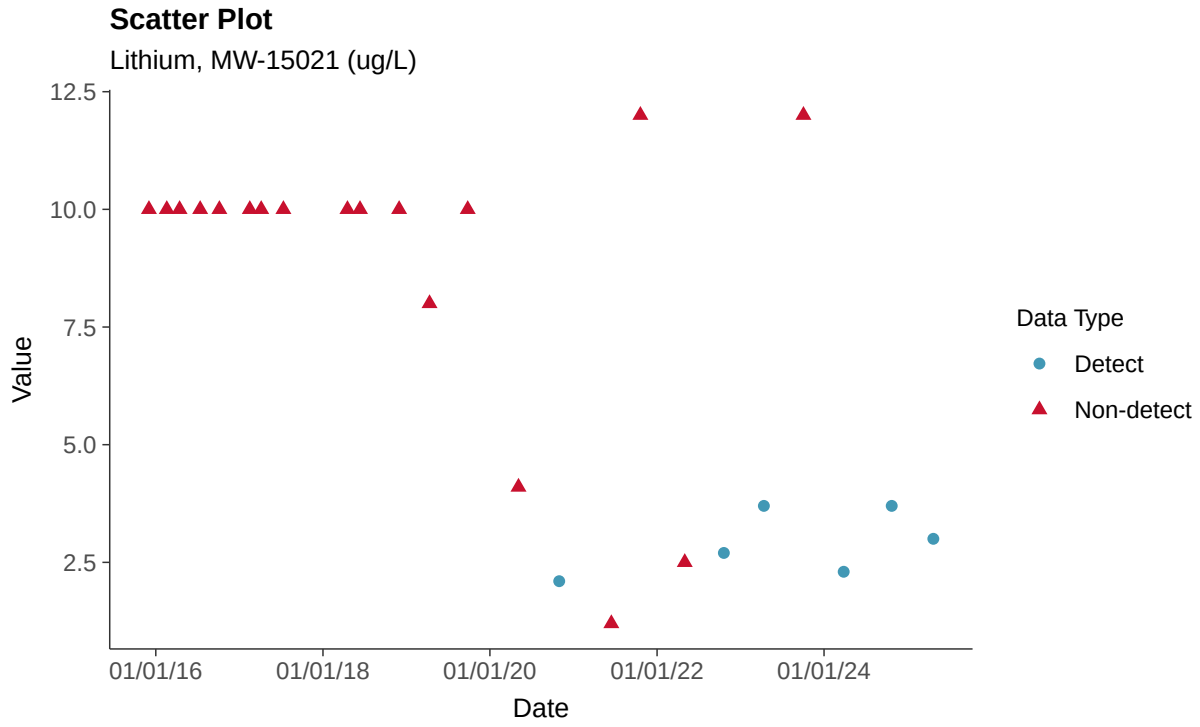
Trend Regression: Piecewise Linear-Linear

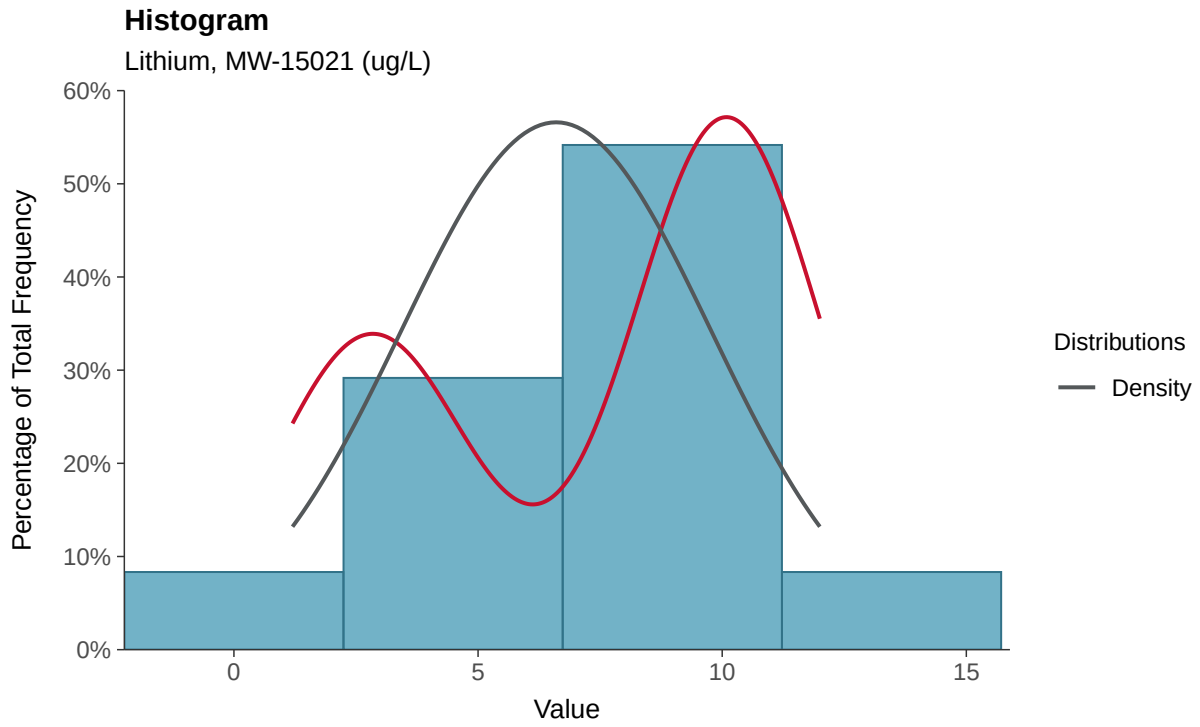
Lead, MW-15021 (ug/L)



Appendix IV: Lithium, MW-15021

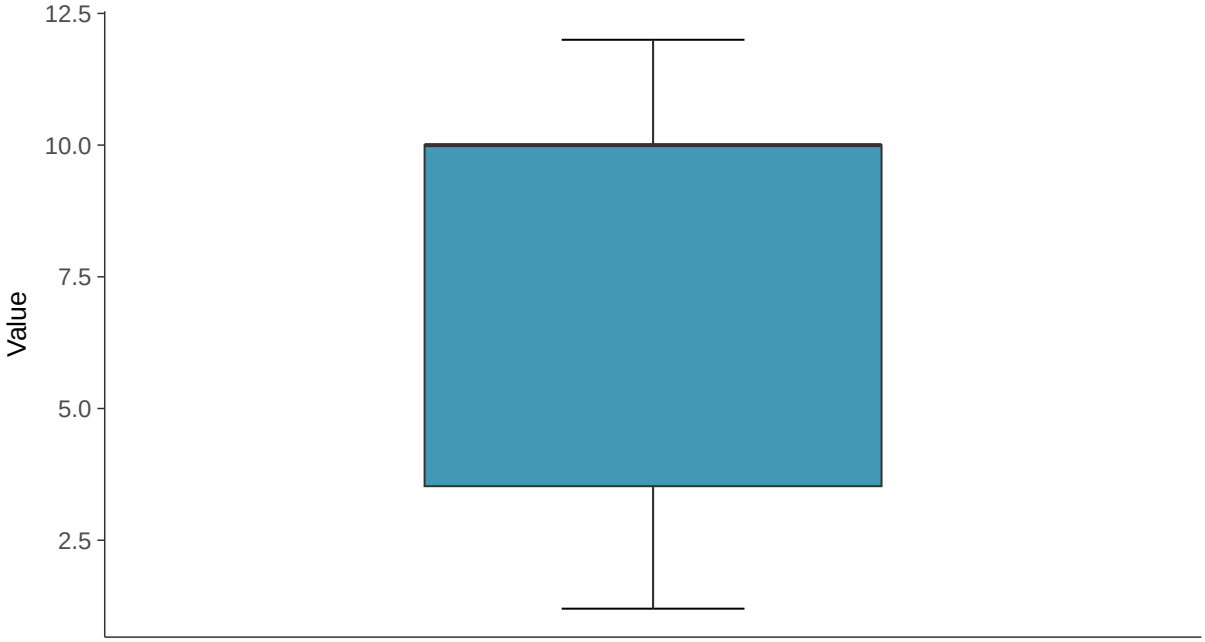
ID: 11_2_117





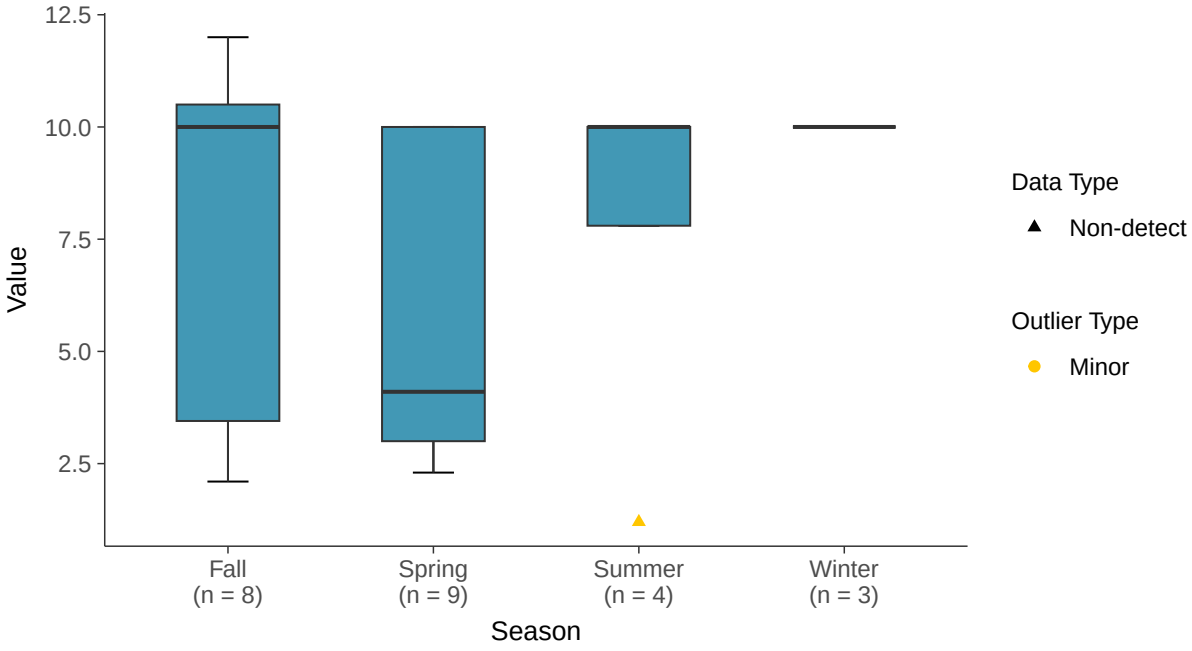
Boxplot

Lithium, MW-15021 (ug/L)



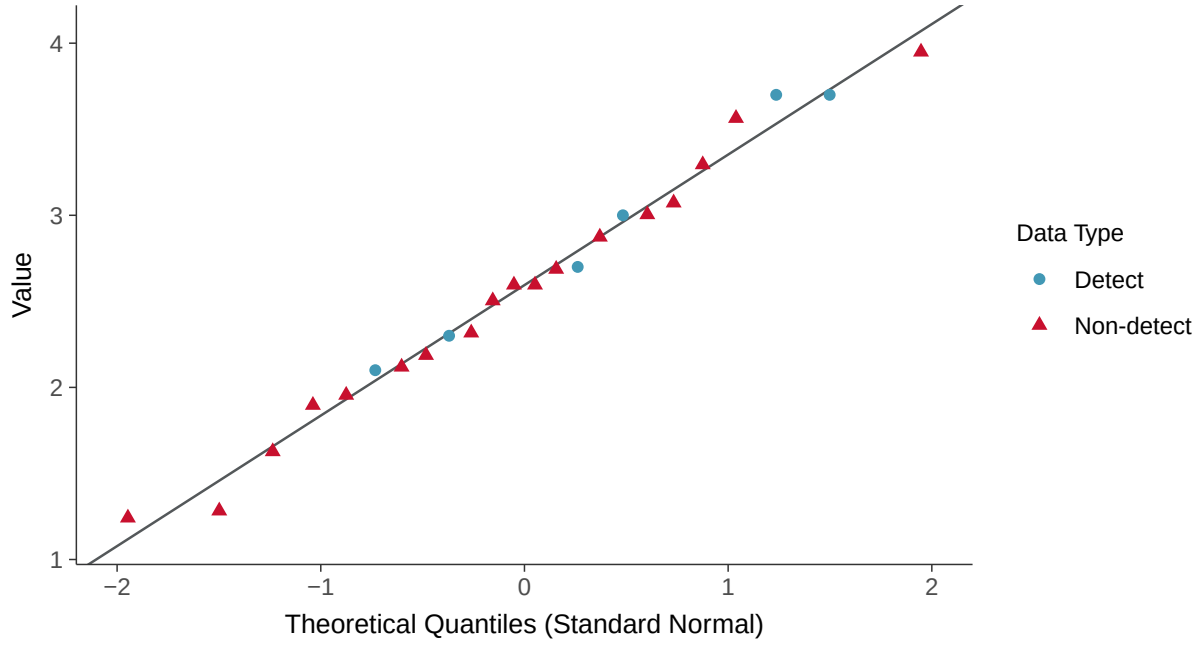
Boxplot by Season

Lithium, MW-15021 (ug/L)



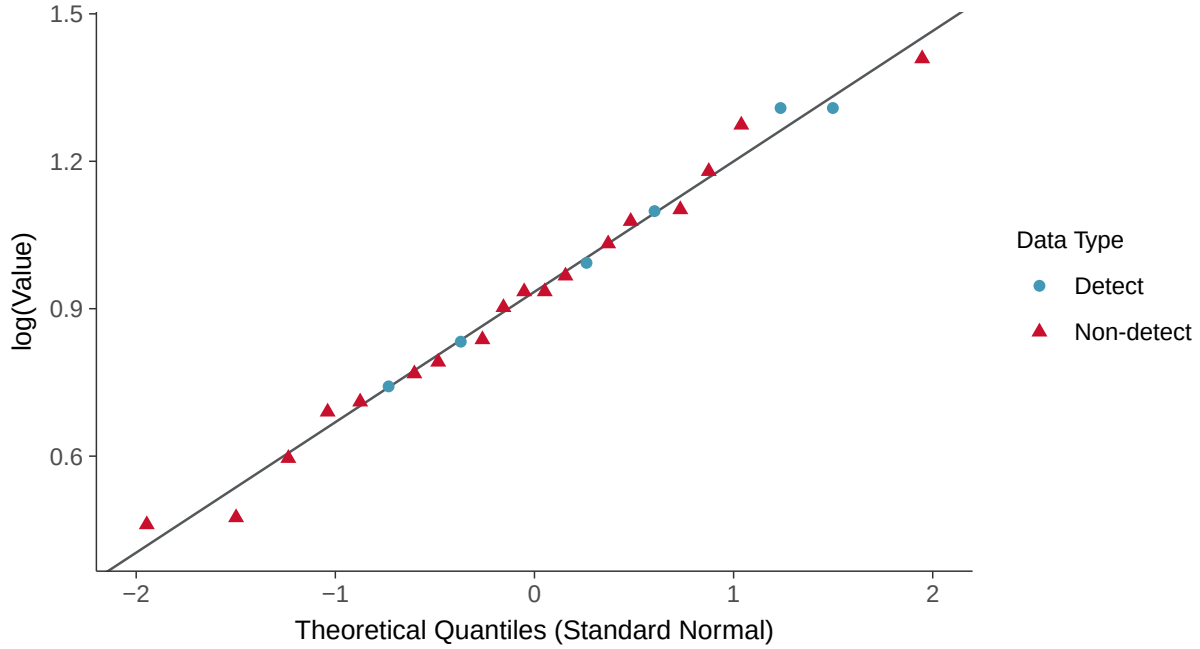
Normal Q-Q plot using ROS Imputed Estimates

Lithium, MW-15021 (ug/L)



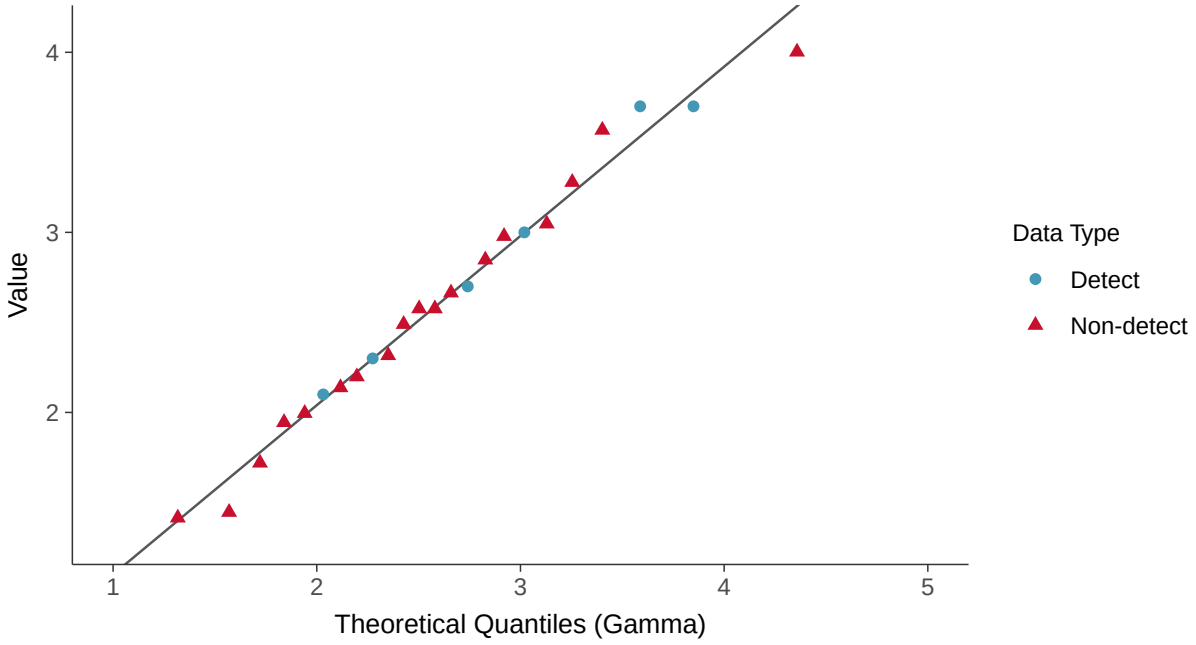
Lognormal Q-Q plot using ROS Imputed Estimates

Lithium, MW-15021 (ug/L)



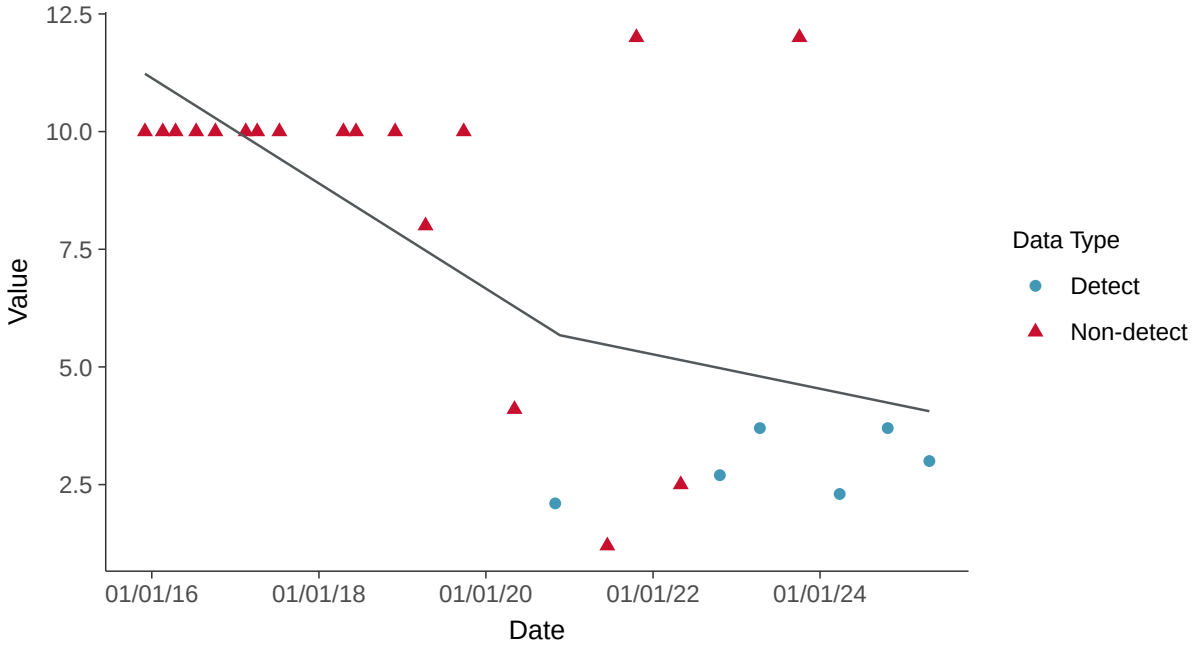
Gamma Q-Q plot using ROS Imputed Estimates

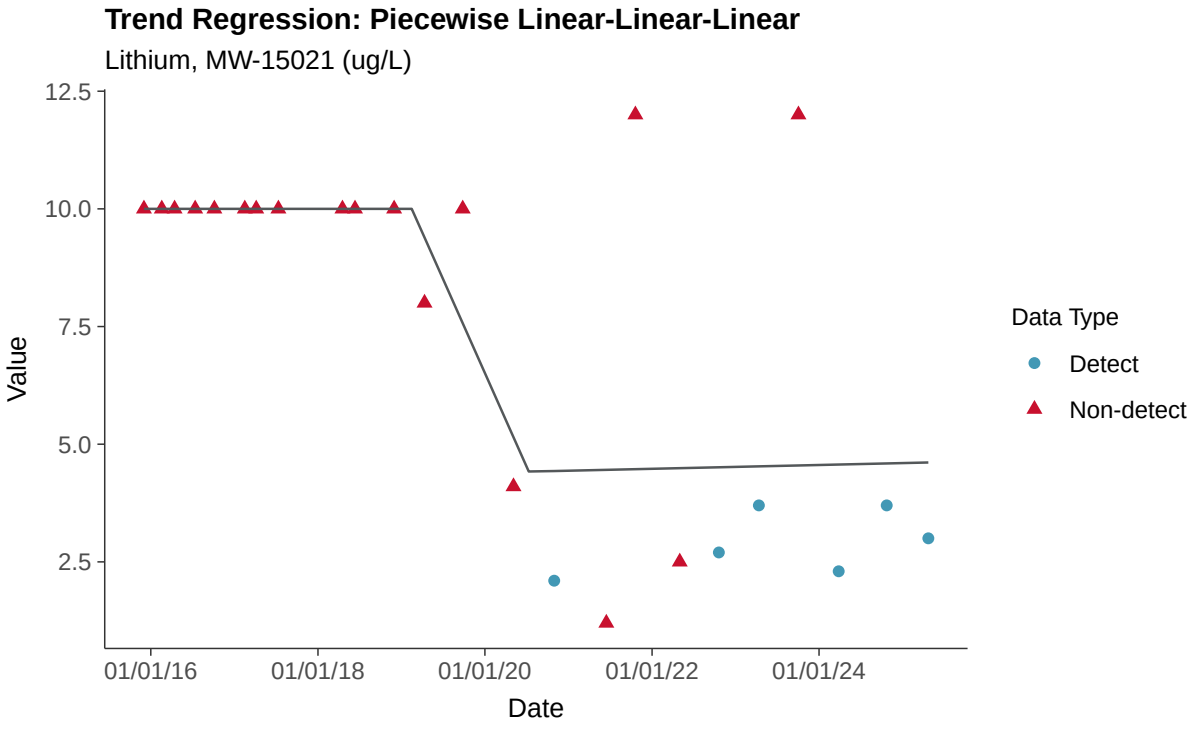
Lithium, MW-15021 (ug/L)



Trend Regression: Piecewise Linear-Linear

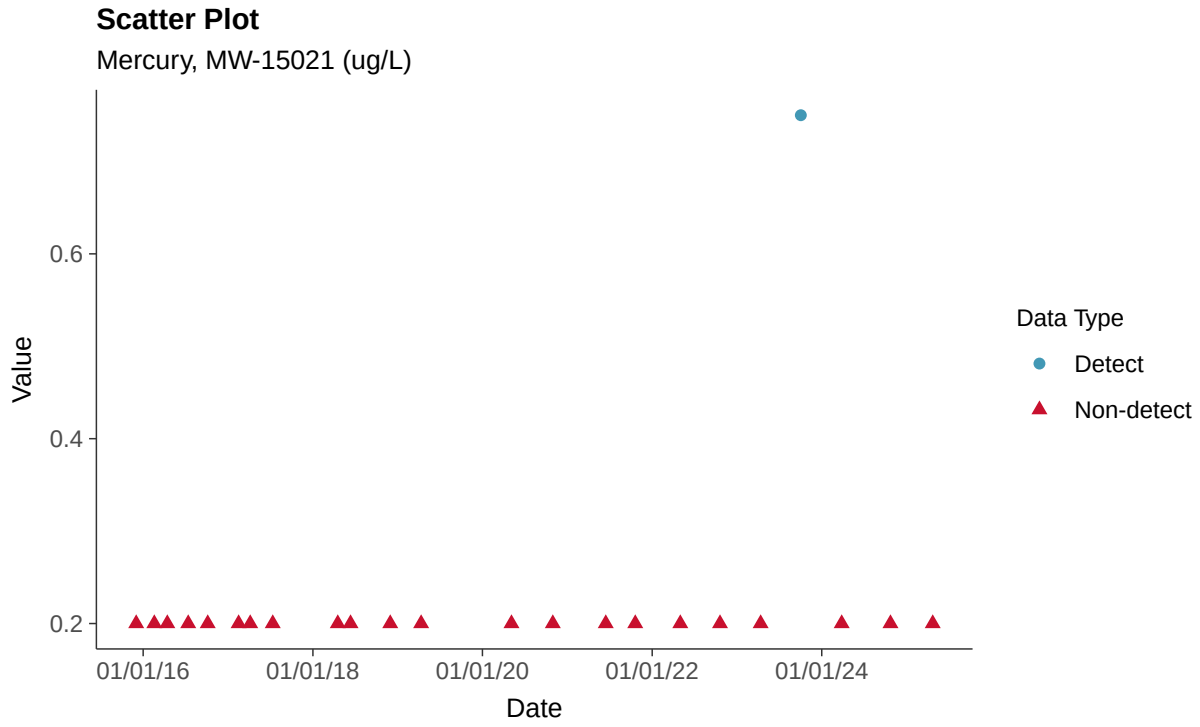
Lithium, MW-15021 (ug/L)

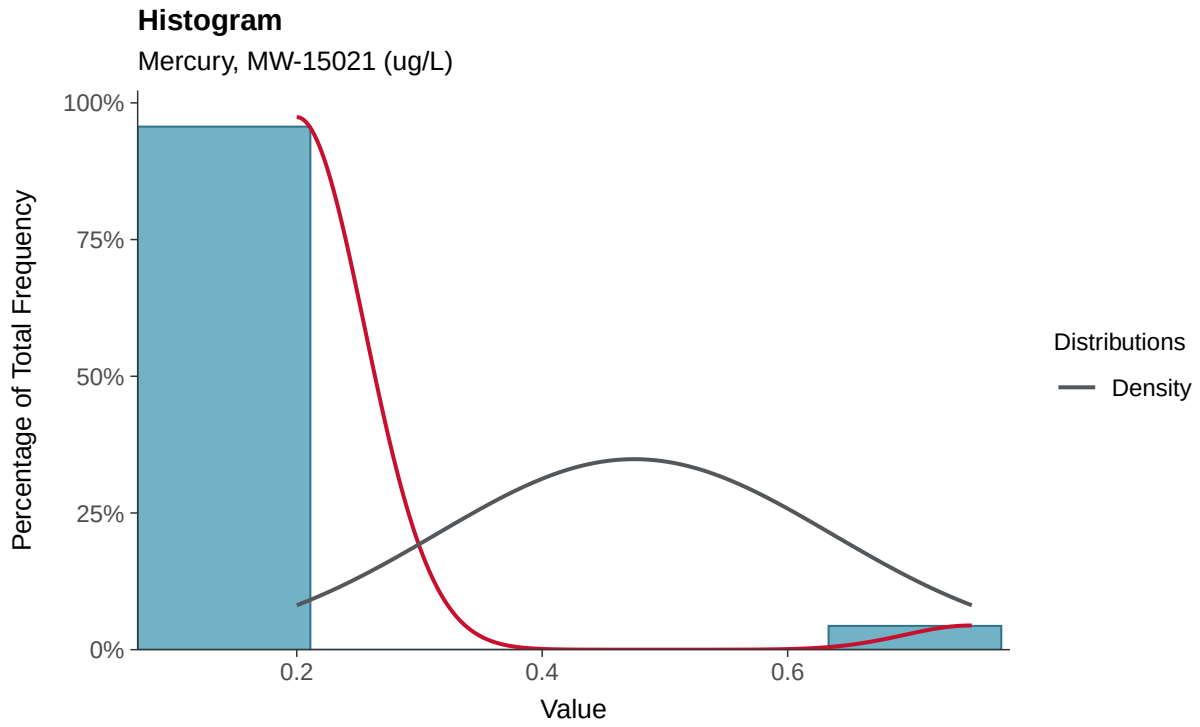



Trend Regression: Piecewise Linear-Linear-Linear
Lithium, MW-15021 (ug/L)
12.5
10.0
7.5
5.0
2.5
Value
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Detect
Non-detect

Appendix IV: Mercury, MW-15021

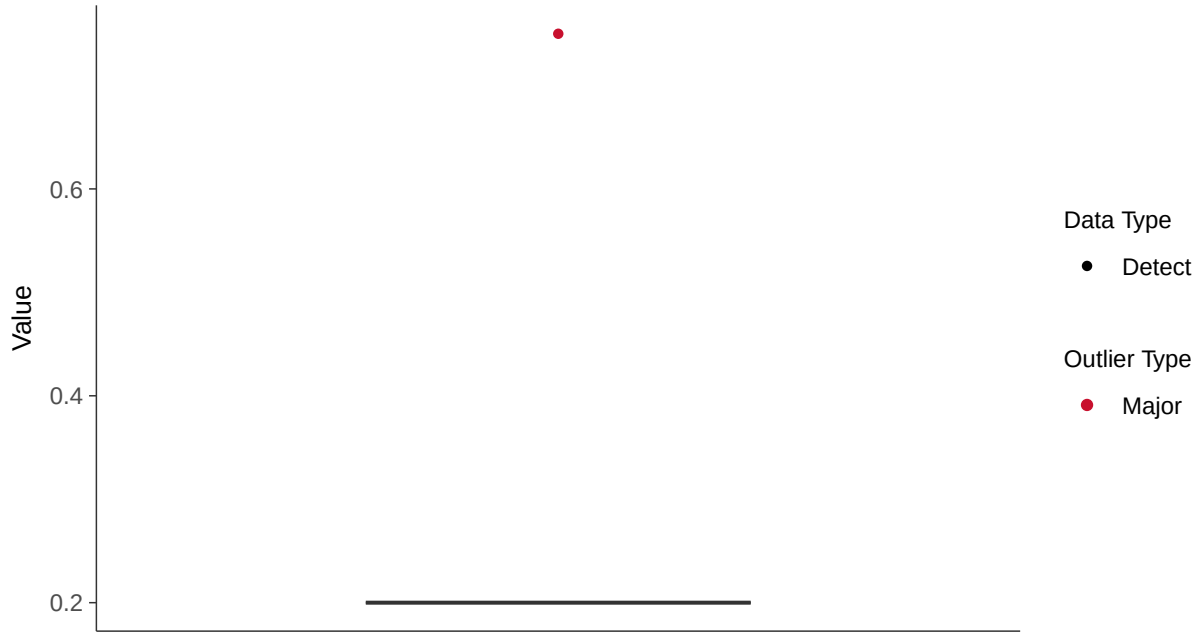
ID: 11_2_118





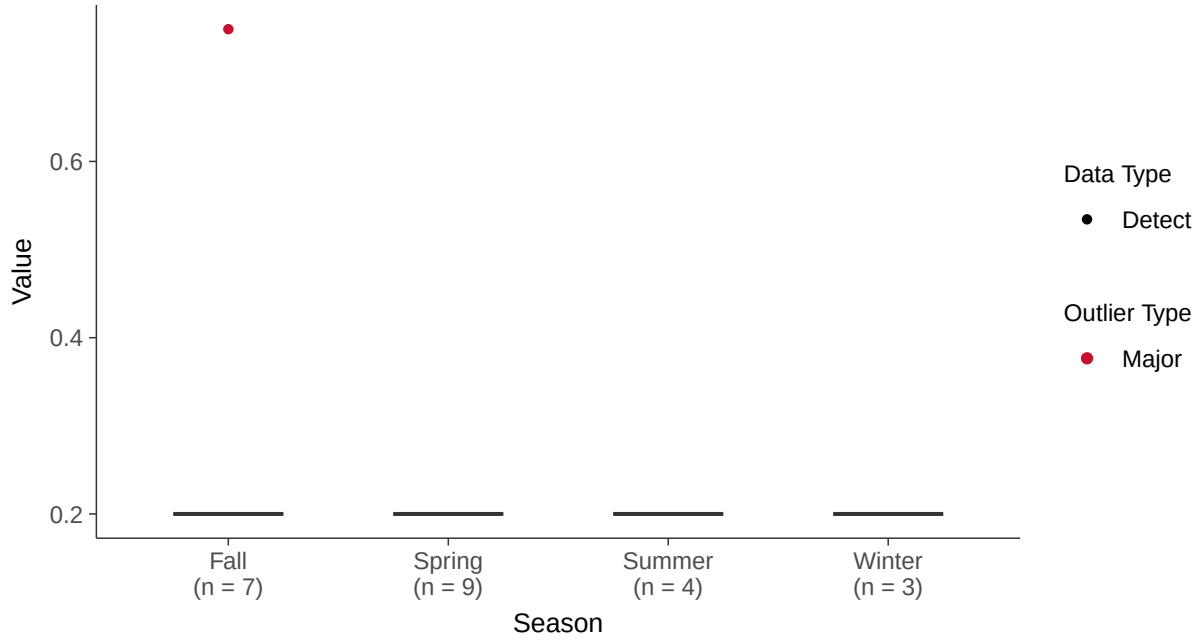
Boxplot

Mercury, MW-15021 (ug/L)



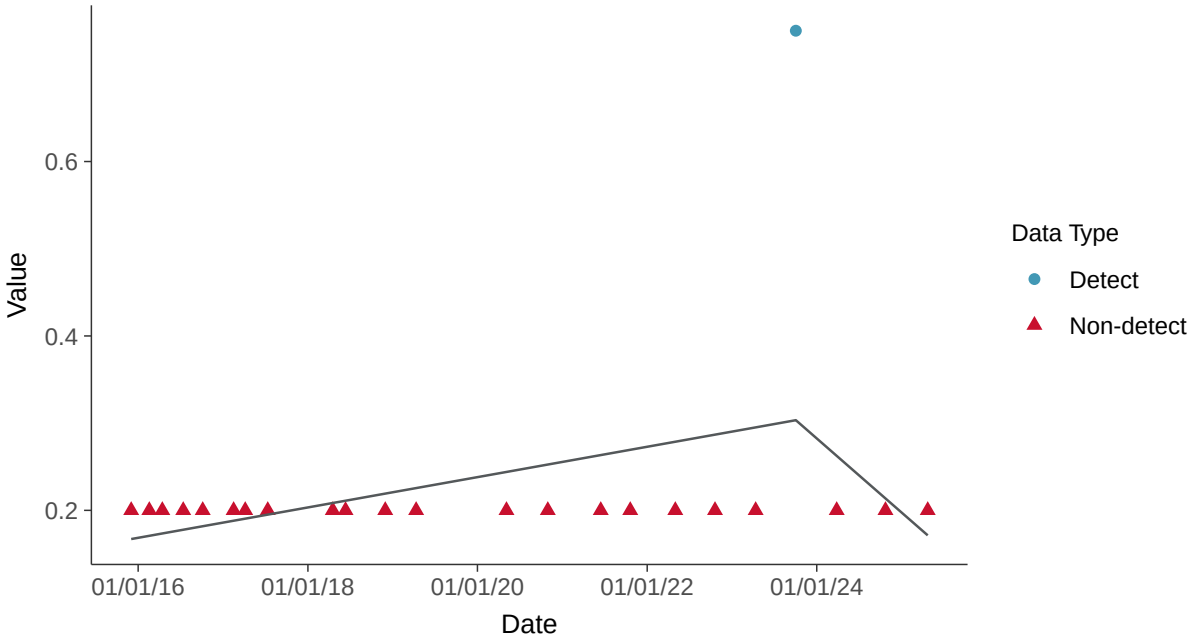
Boxplot by Season

Mercury, MW-15021 (ug/L)



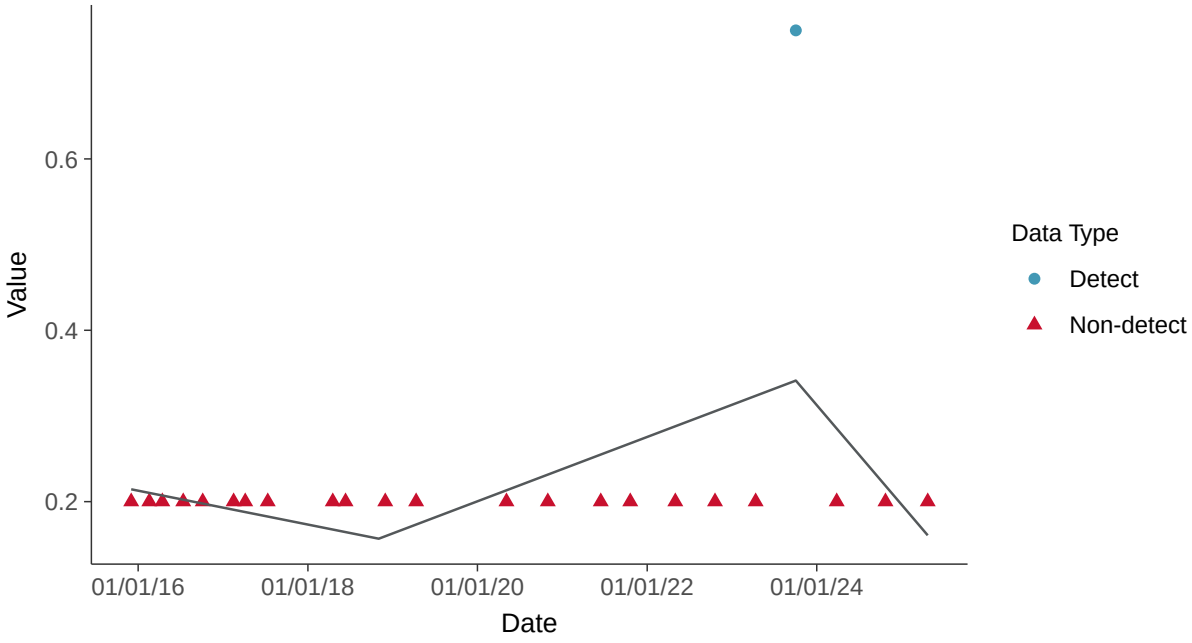
Trend Regression: Piecewise Linear-Linear

Mercury, MW-15021 (ug/L)



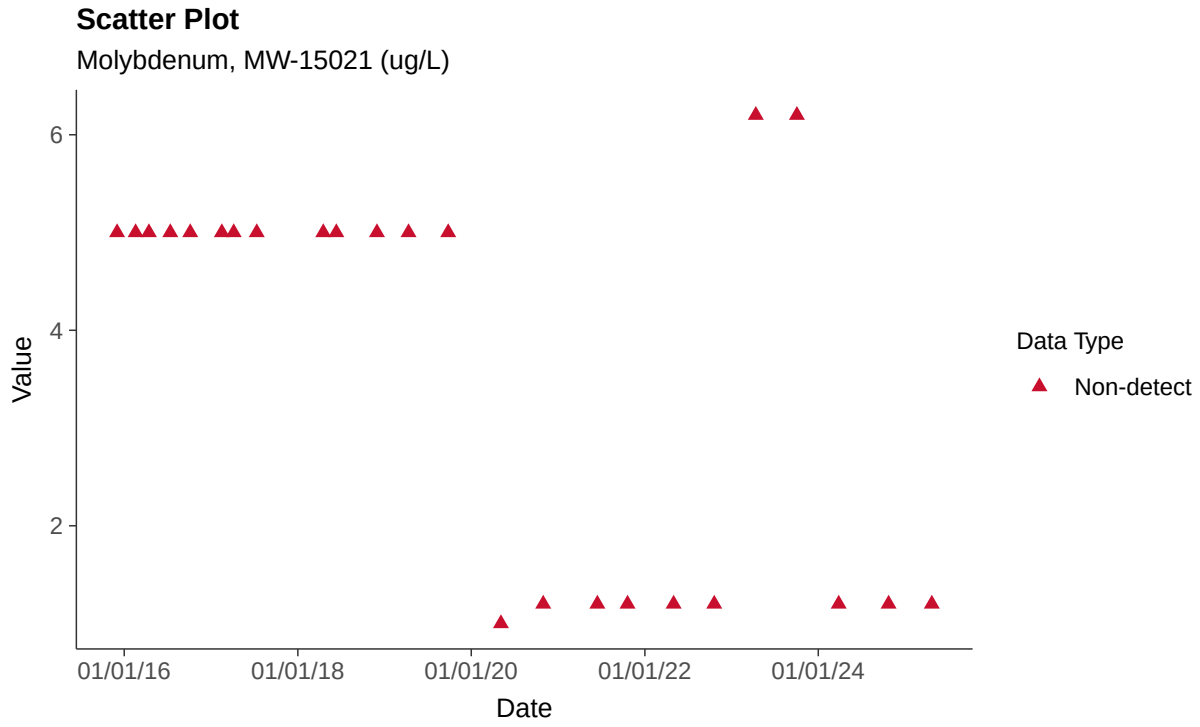
Trend Regression: Piecewise Linear-Linear-Linear

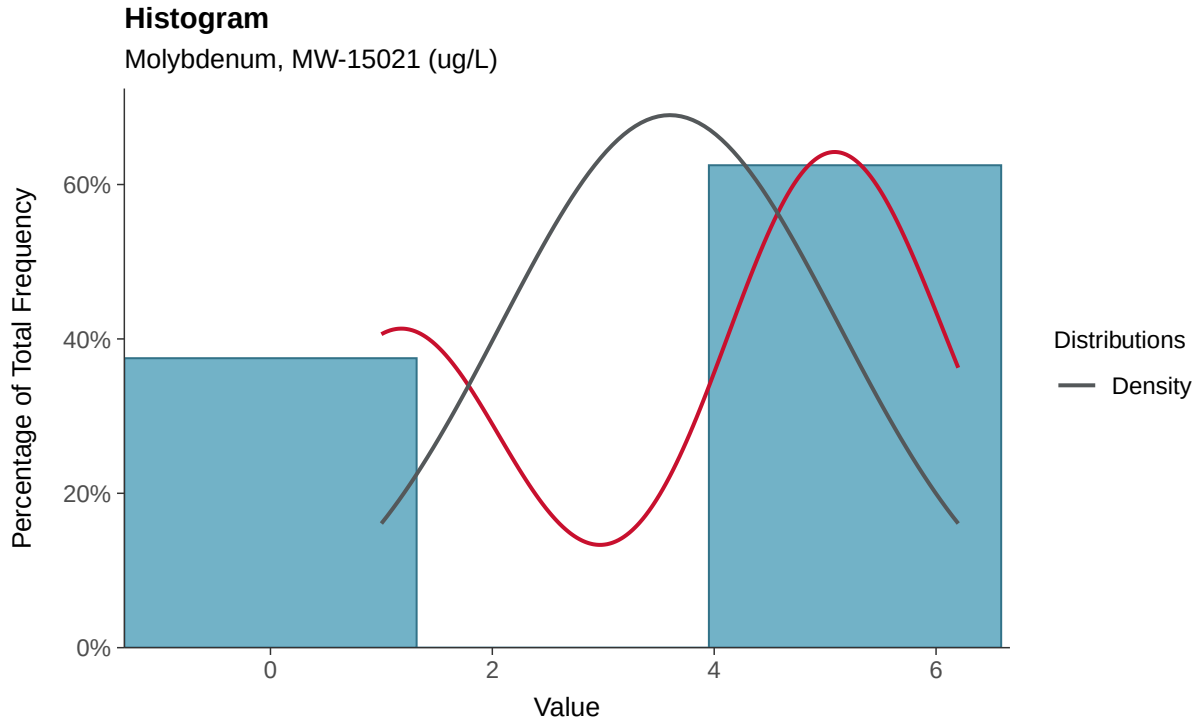
Mercury, MW-15021 (ug/L)



Appendix IV: Molybdenum, MW-15021

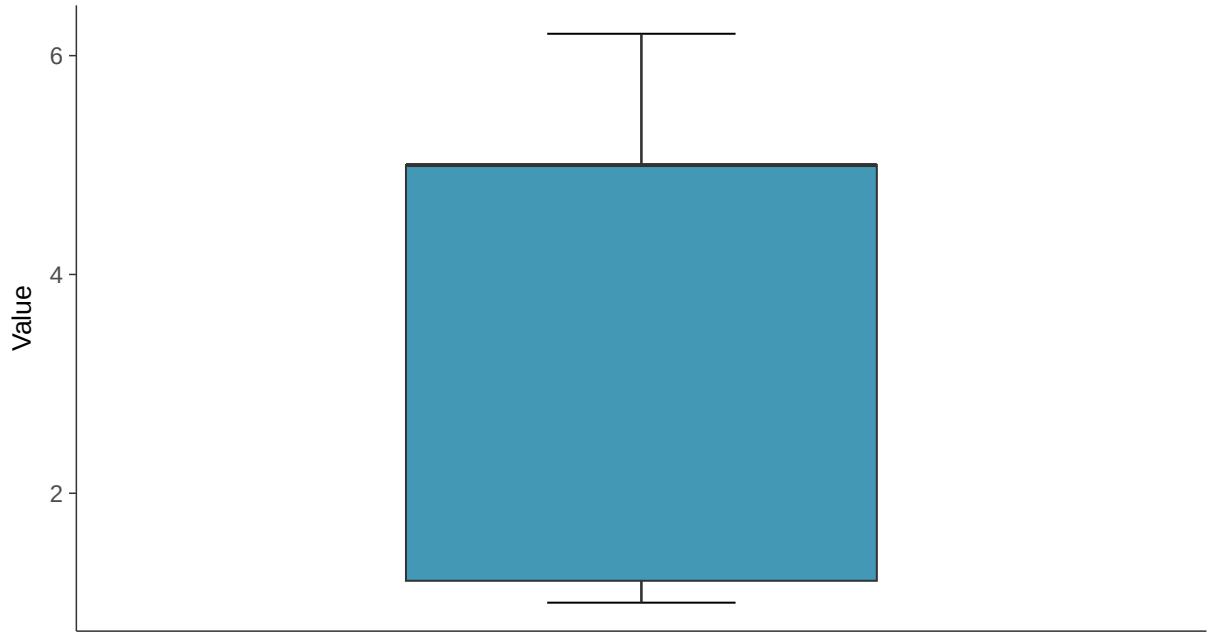
ID: 11_2_119





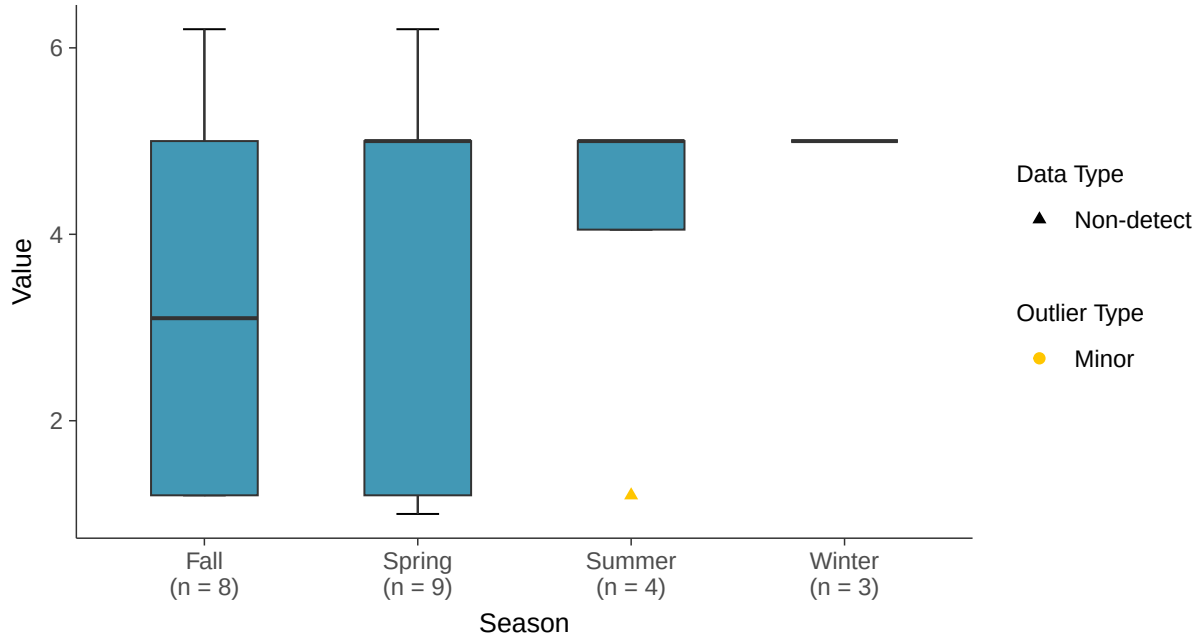
Boxplot

Molybdenum, MW-15021 (ug/L)



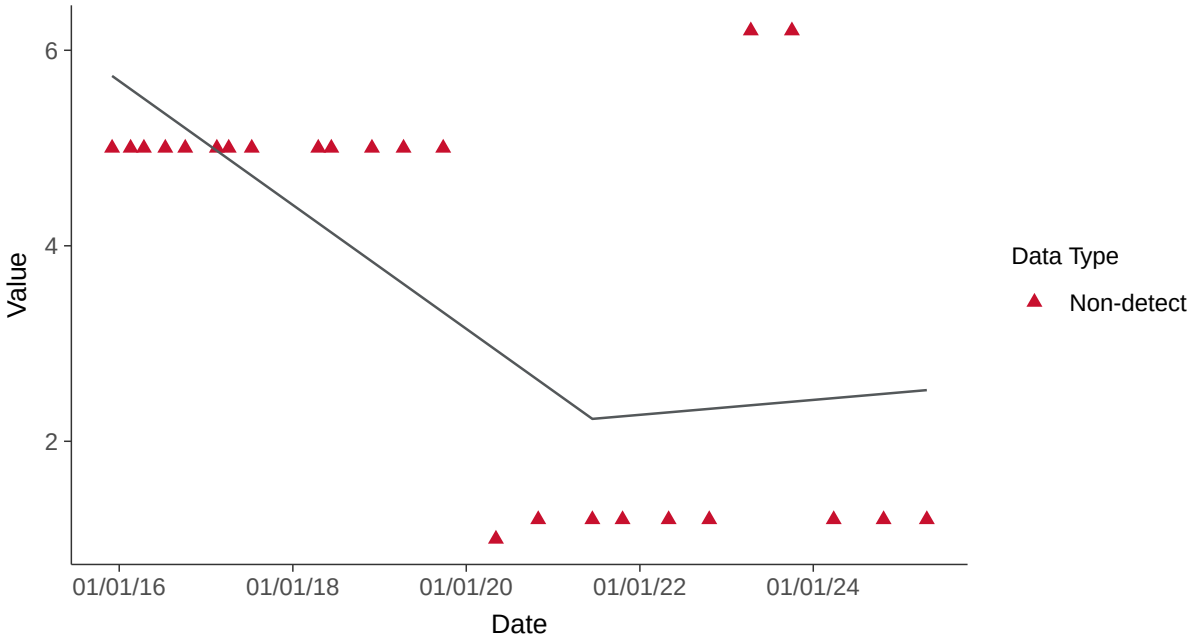
Boxplot by Season

Molybdenum, MW-15021 (ug/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-15021 (ug/L)

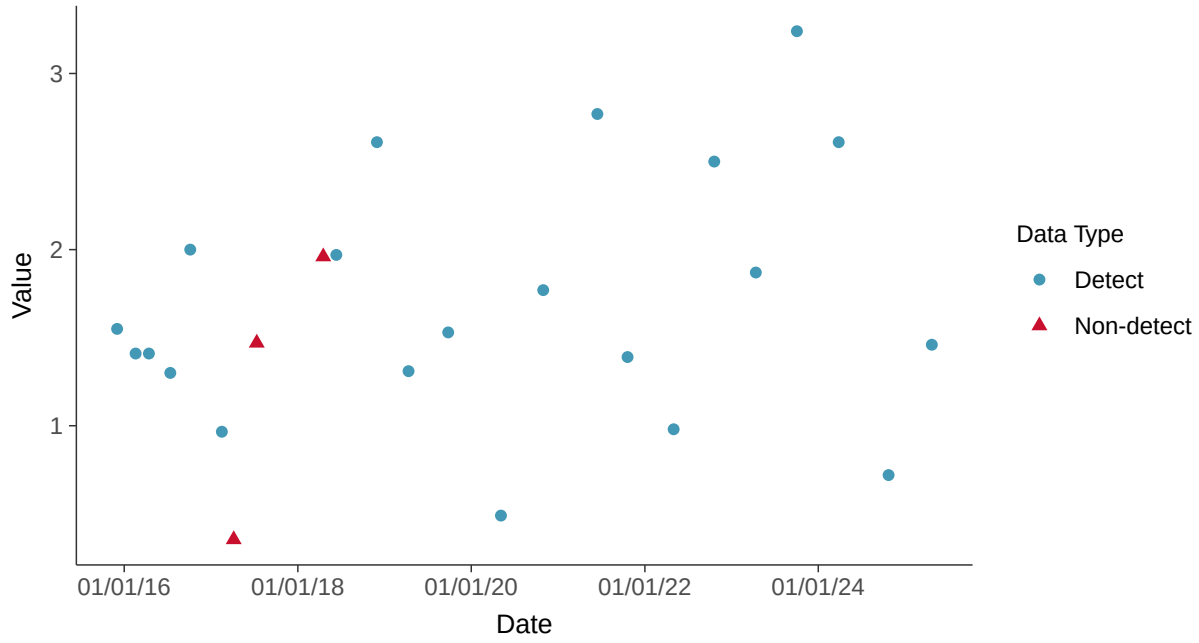


Appendix IV: Radium-226+228, MW-15021

ID: 11_2_125

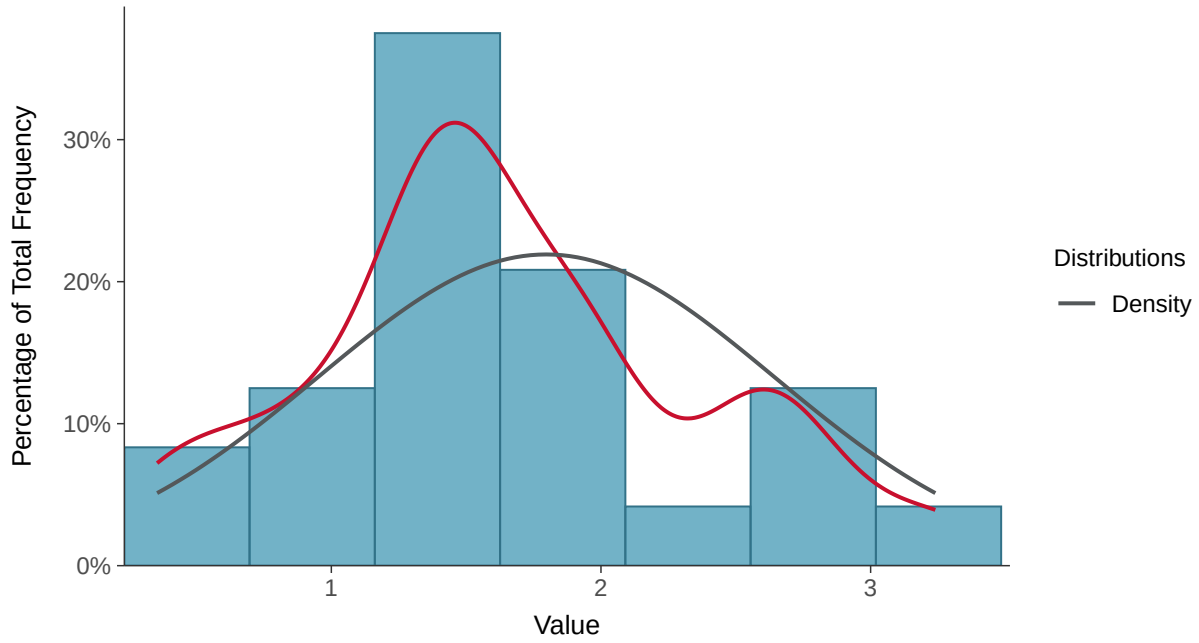
Scatter Plot

Radium-226+228, MW-15021 (pCi/L)



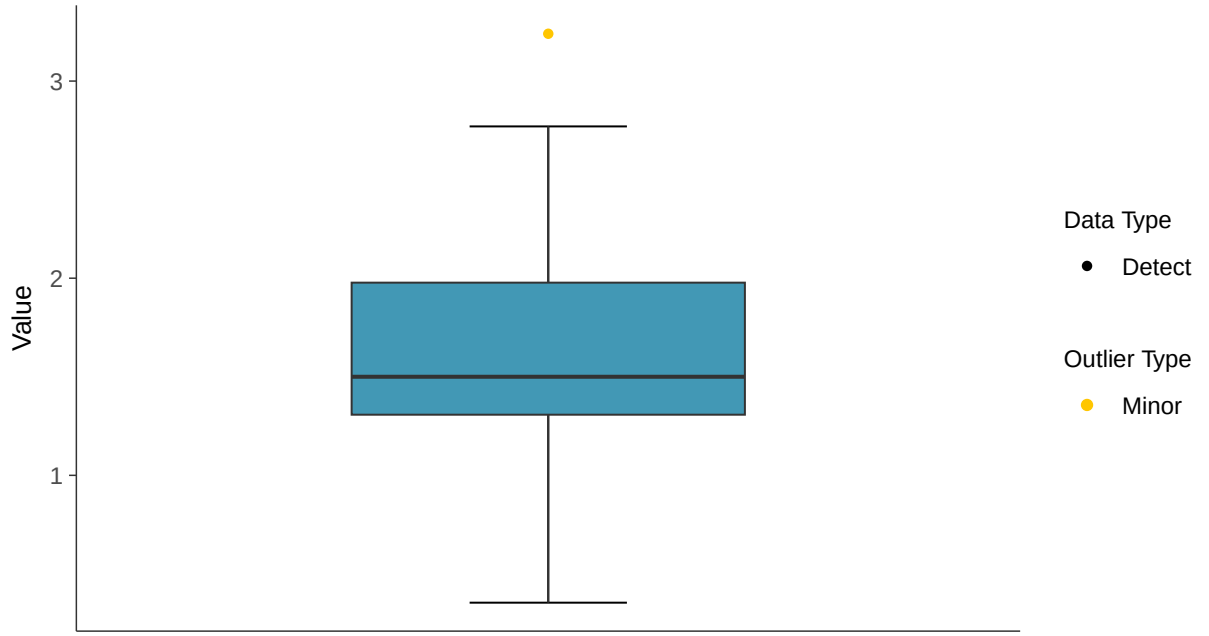
Histogram

Radium-226+228, MW-15021 (pCi/L)



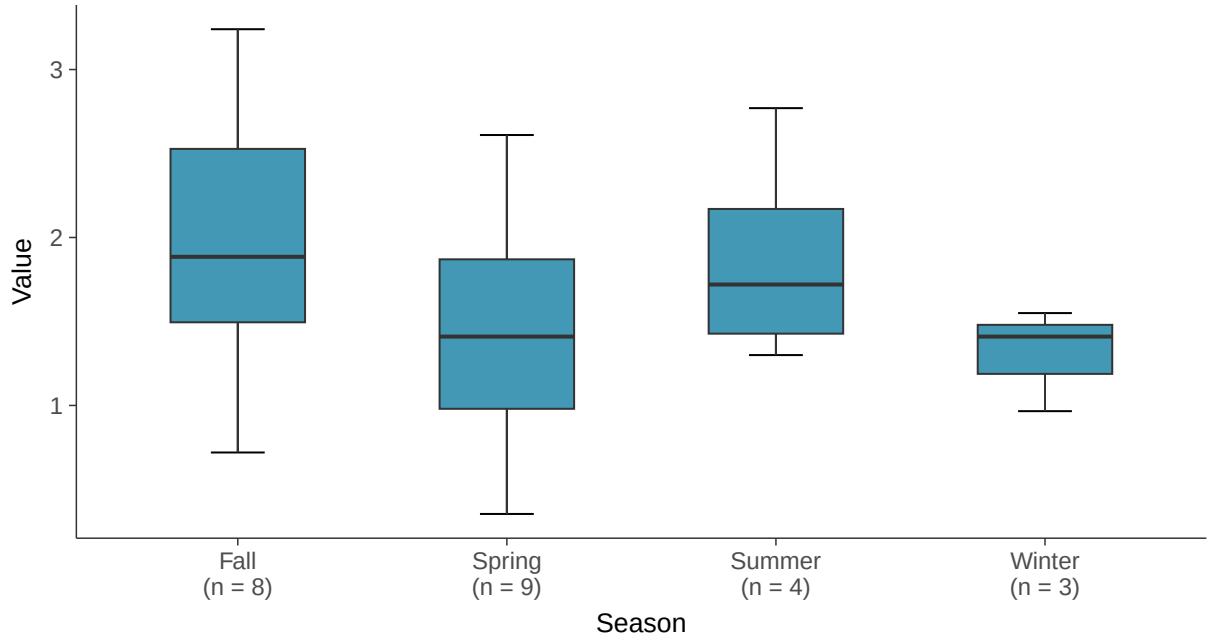
Boxplot

Radium-226+228, MW-15021 (pCi/L)



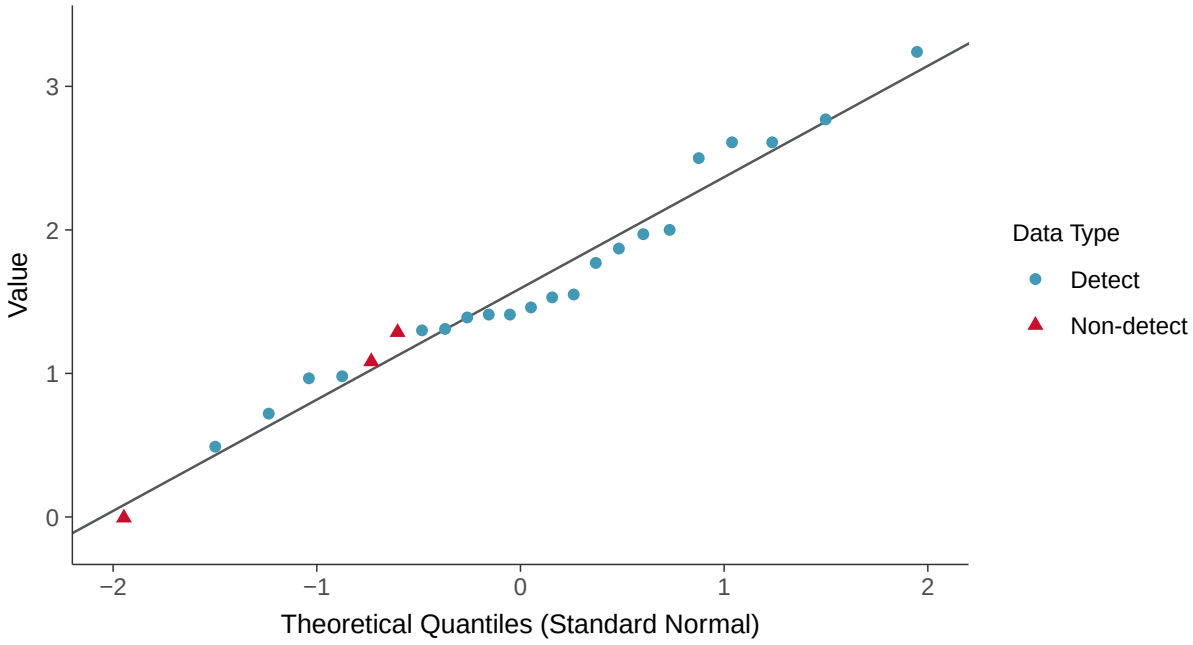
Boxplot by Season

Radium-226+228, MW-15021 (pCi/L)



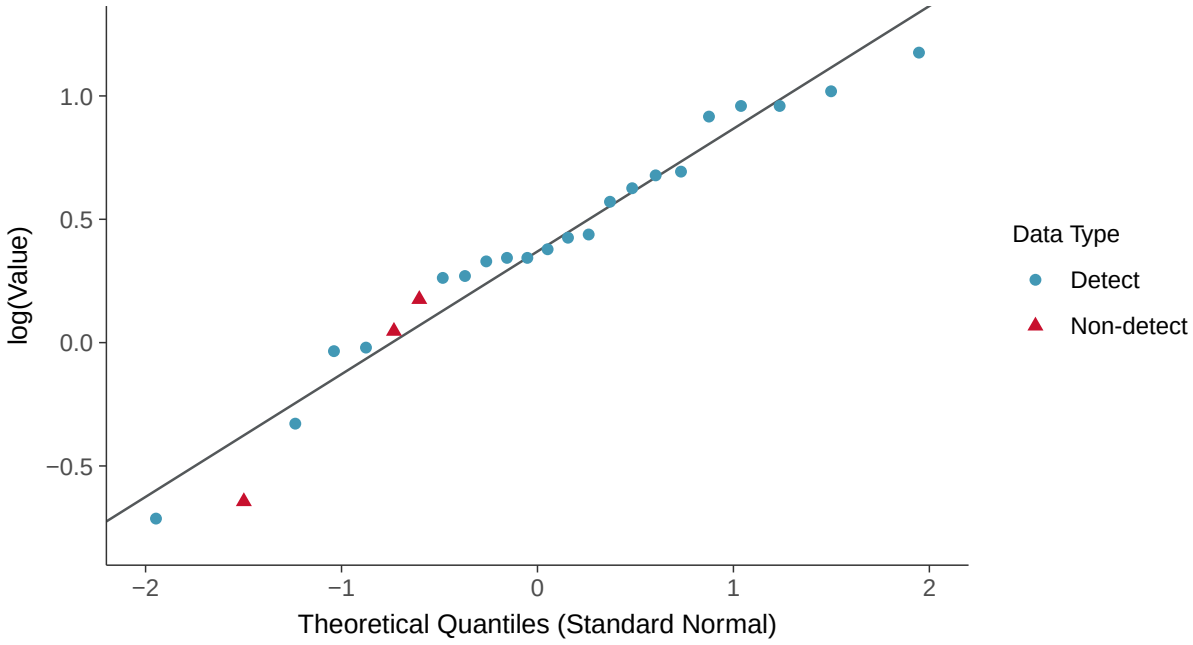
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15021 (pCi/L)



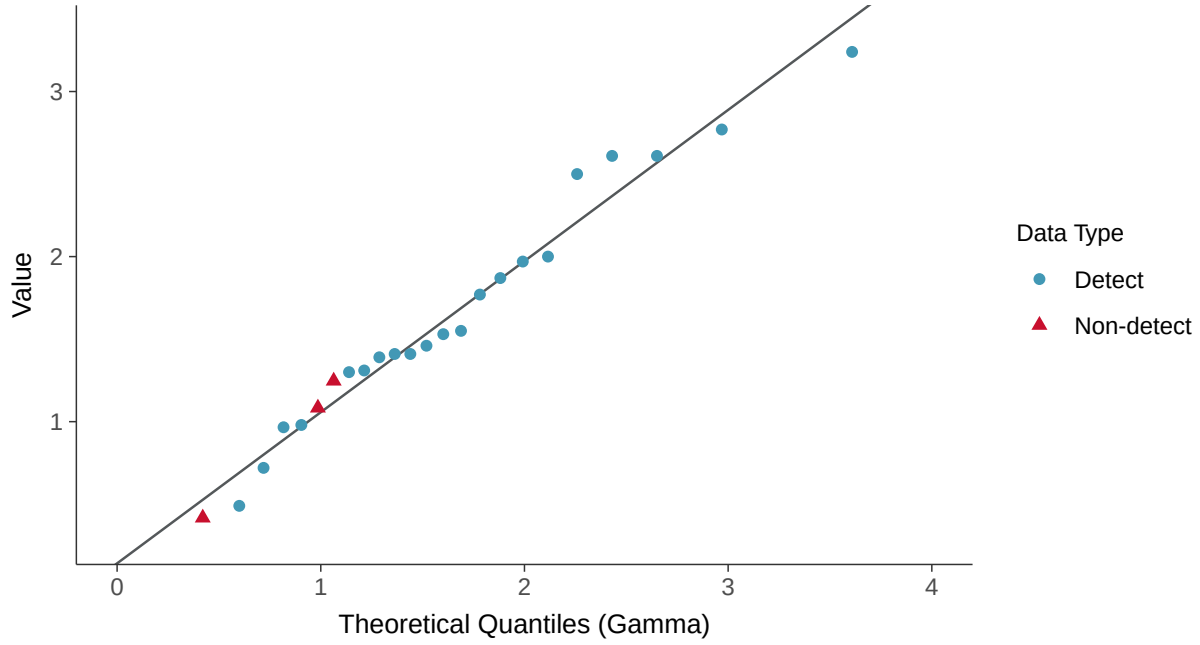
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15021 (pCi/L)



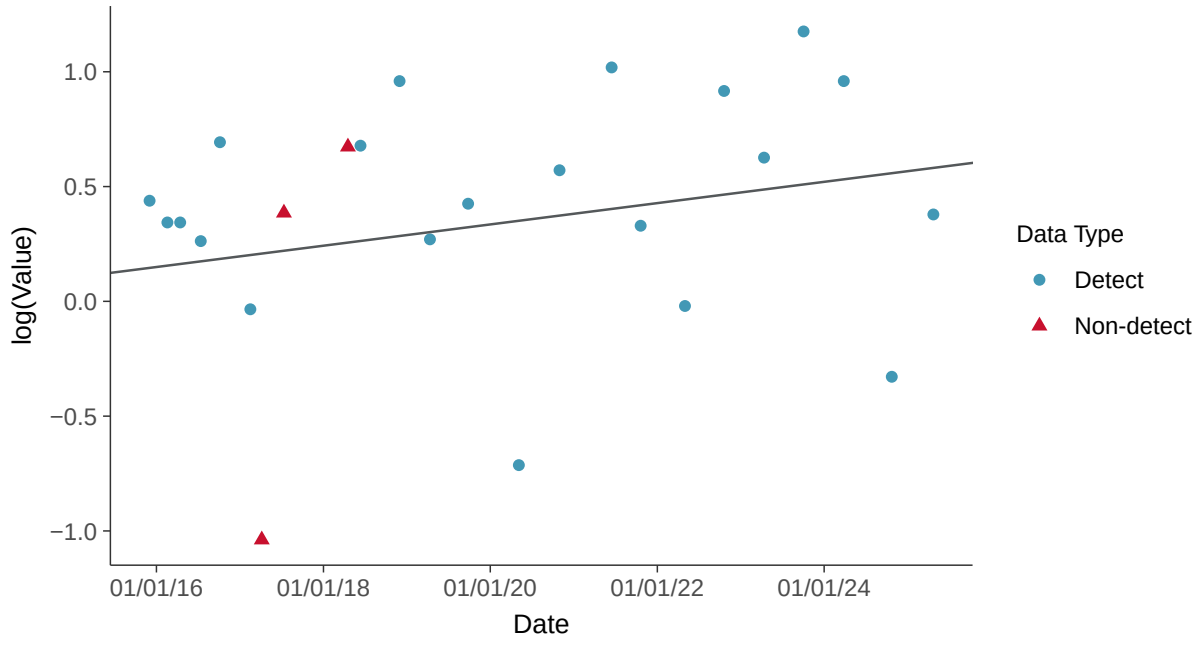
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15021 (pCi/L)



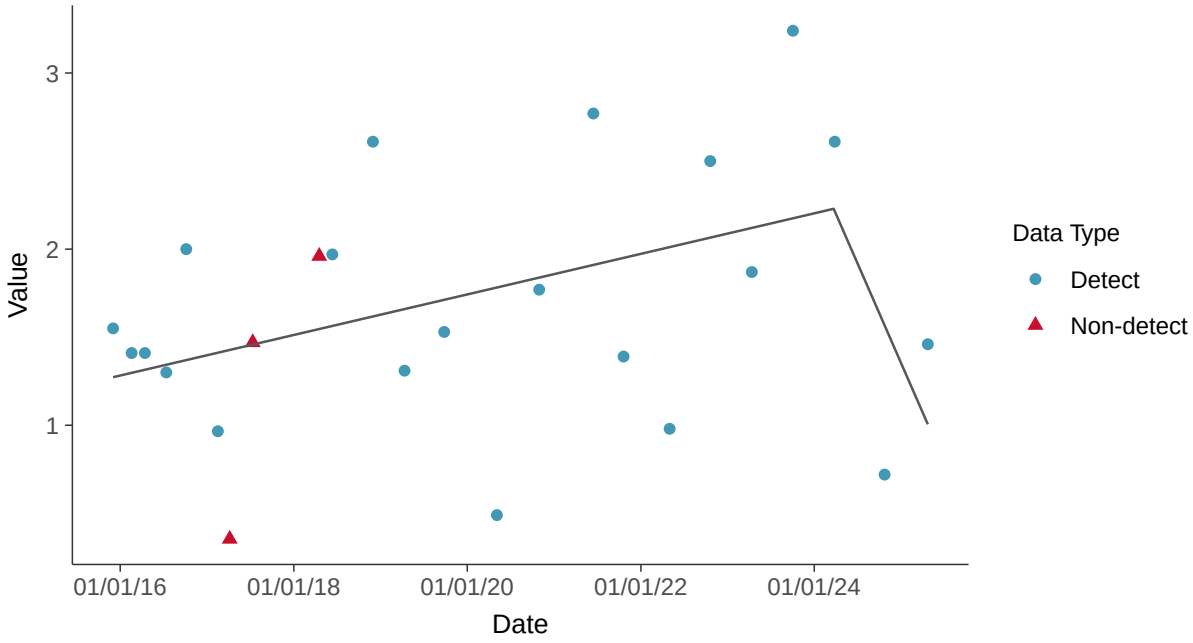
Trend Regression: Lognormal MLE

Radium-226+228, MW-15021 (pCi/L)



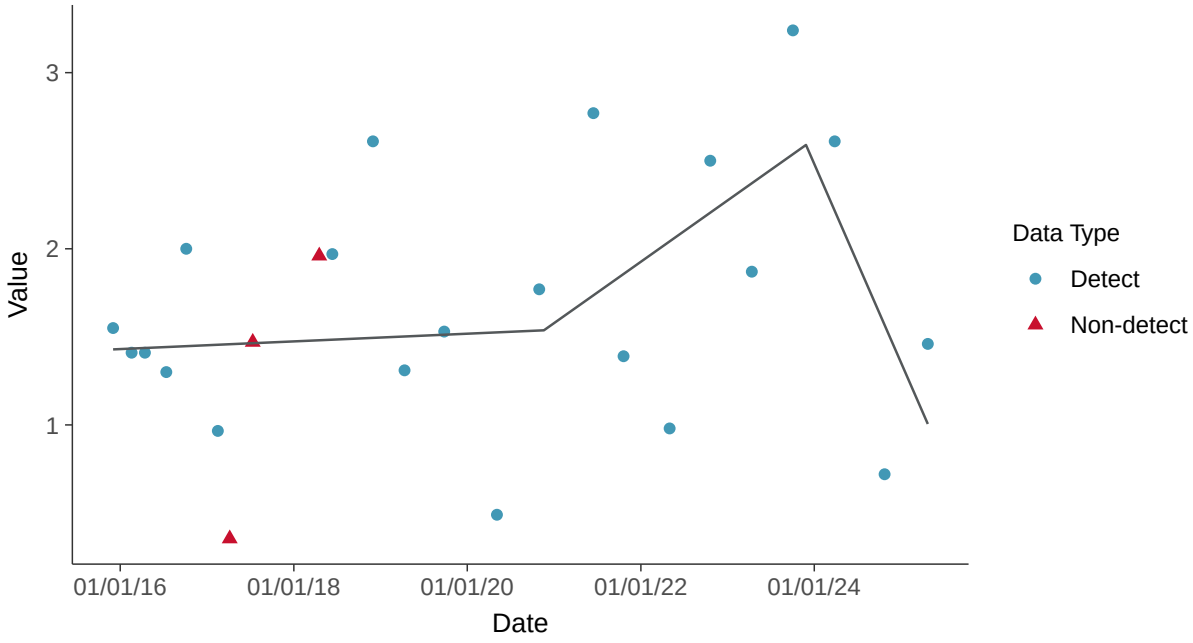
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-15021 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium-226+228, MW-15021 (pCi/L)

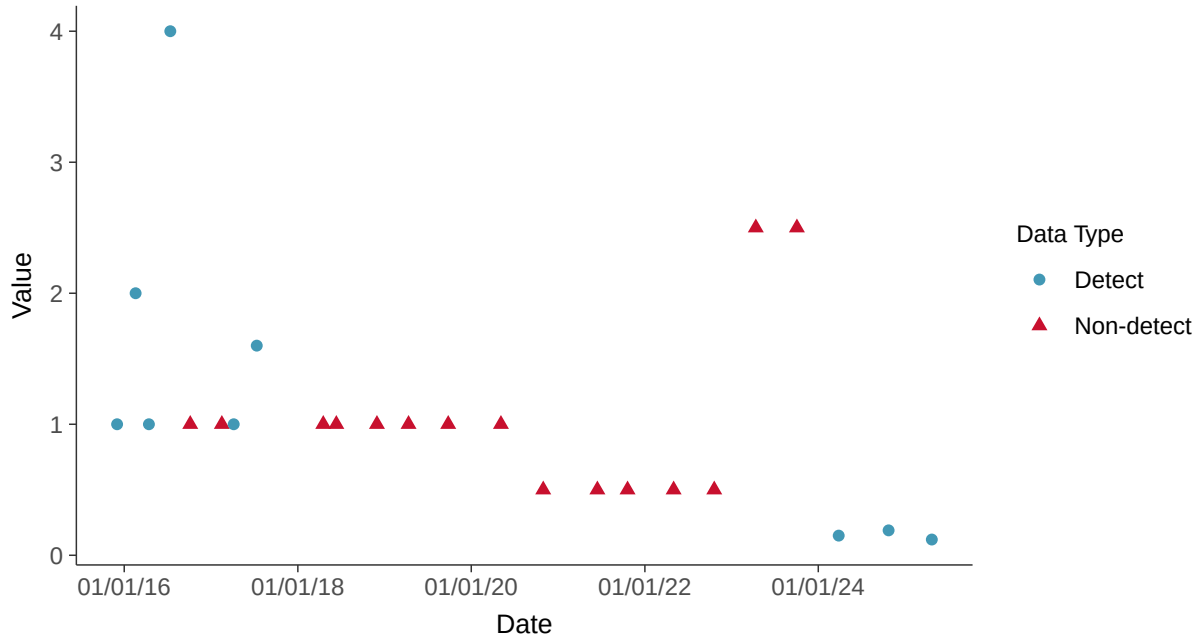


Appendix IV: Selenium, MW-15021

ID: 11_2_127

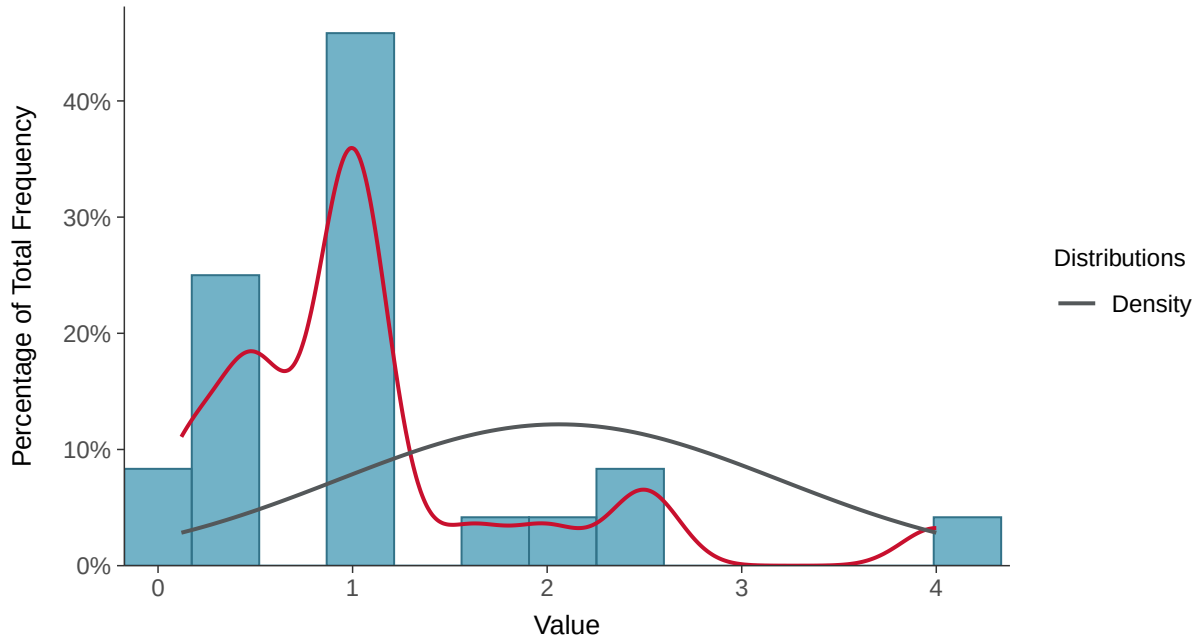
Scatter Plot

Selenium, MW-15021 (ug/L)



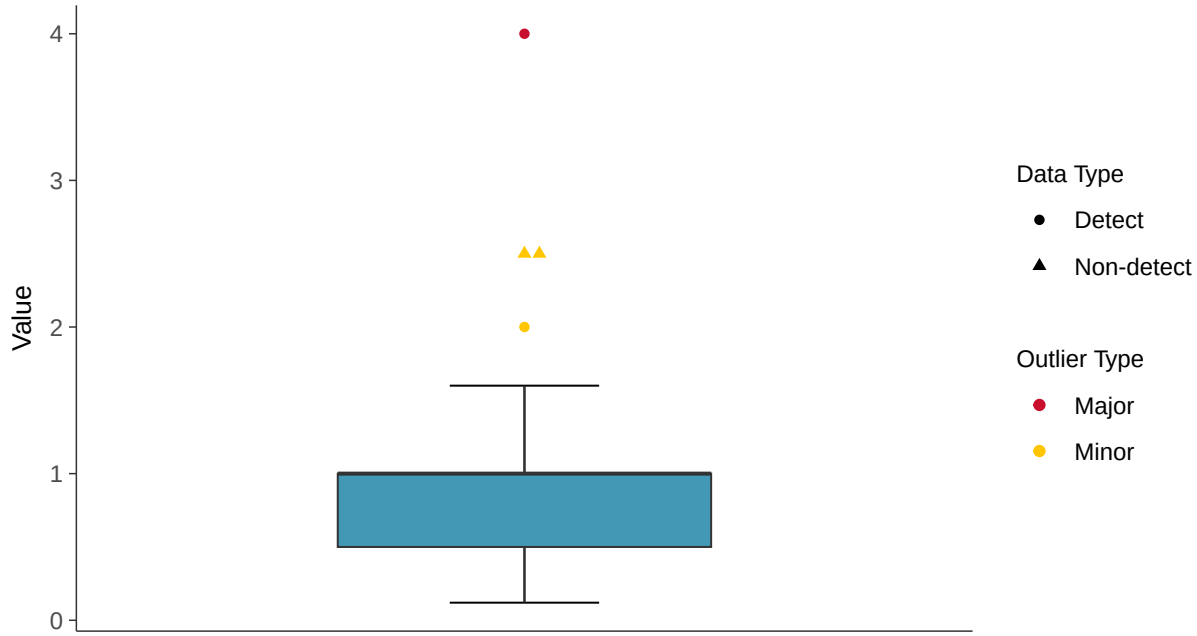
Histogram

Selenium, MW-15021 (ug/L)



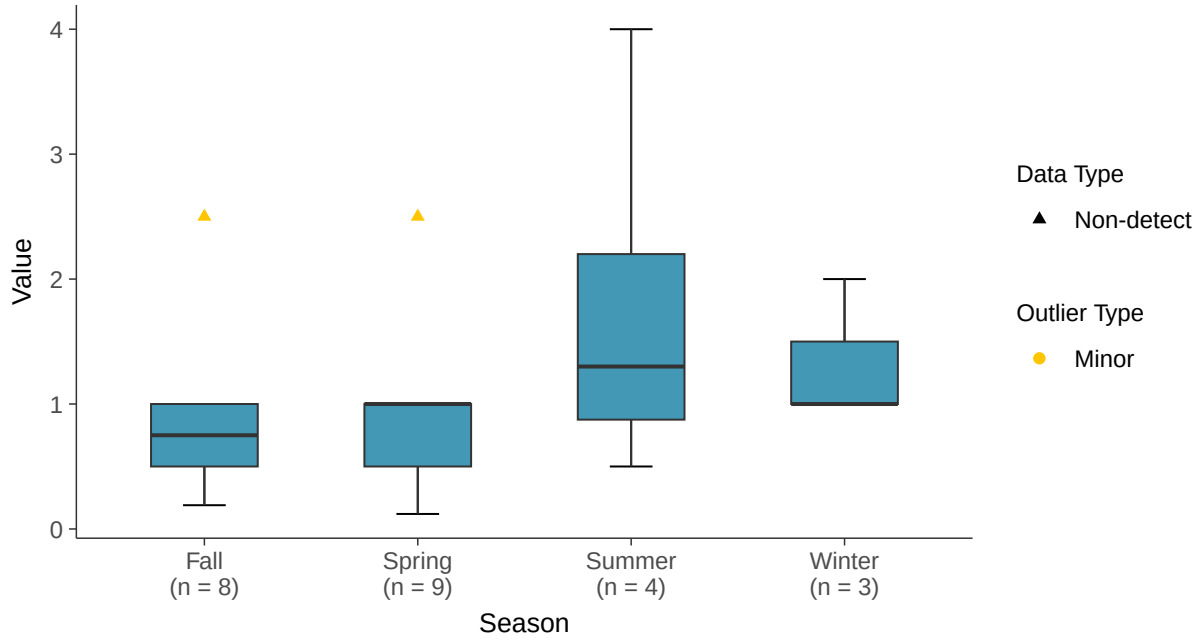
Boxplot

Selenium, MW-15021 (ug/L)



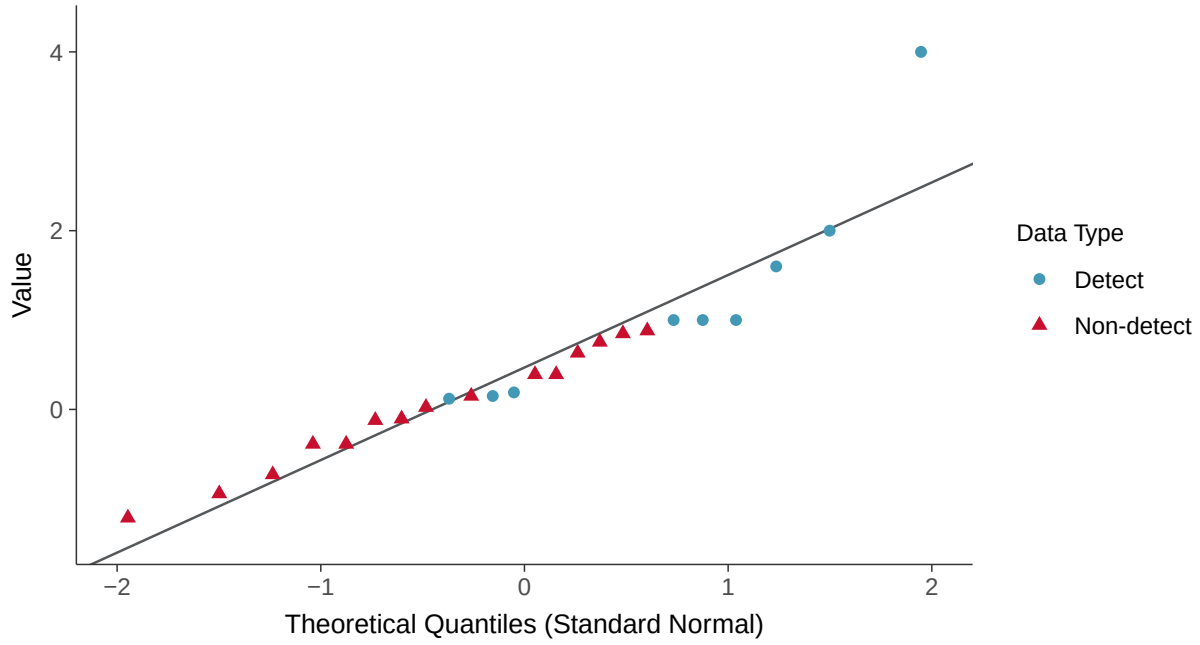
Boxplot by Season

Selenium, MW-15021 (ug/L)



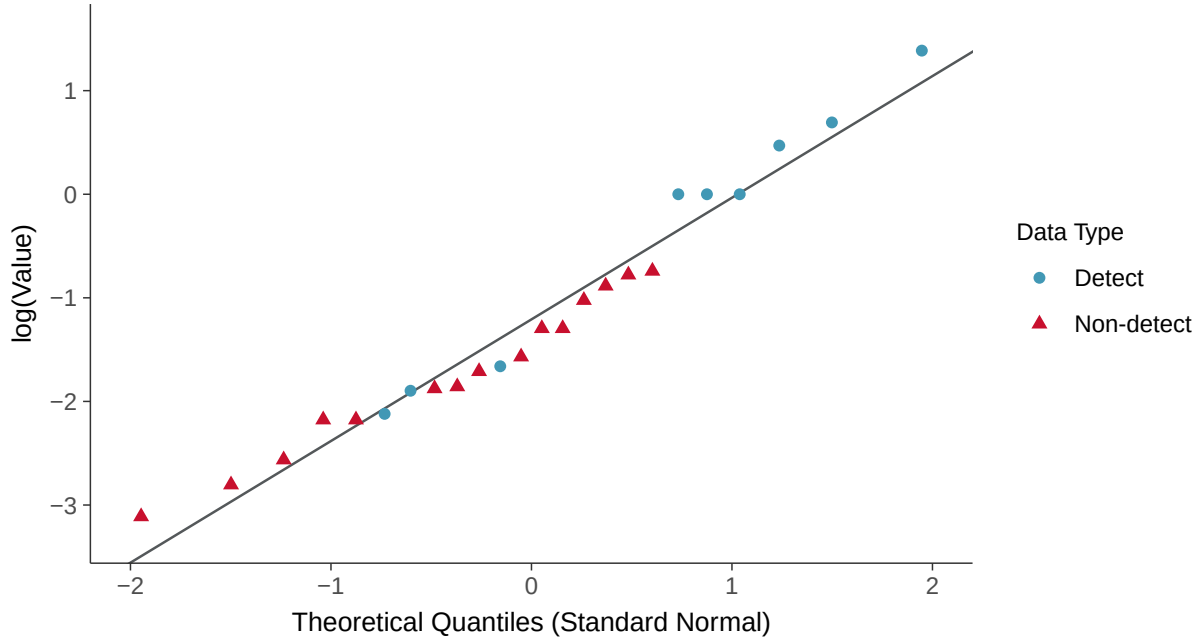
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-15021 (ug/L)



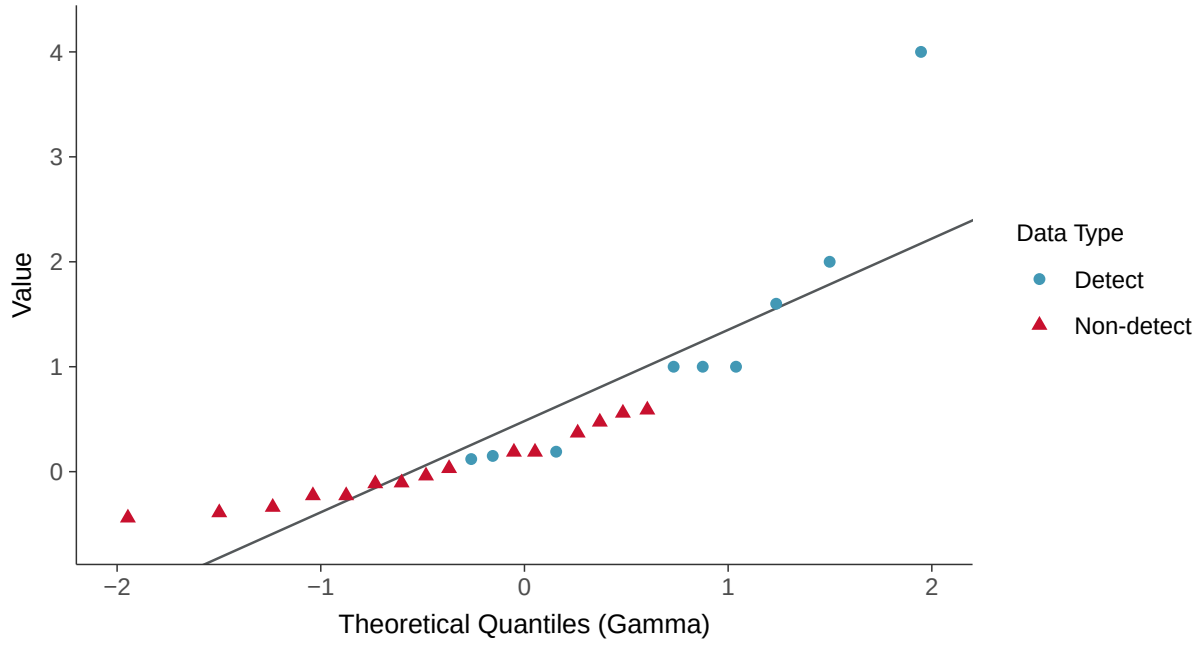
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-15021 (ug/L)



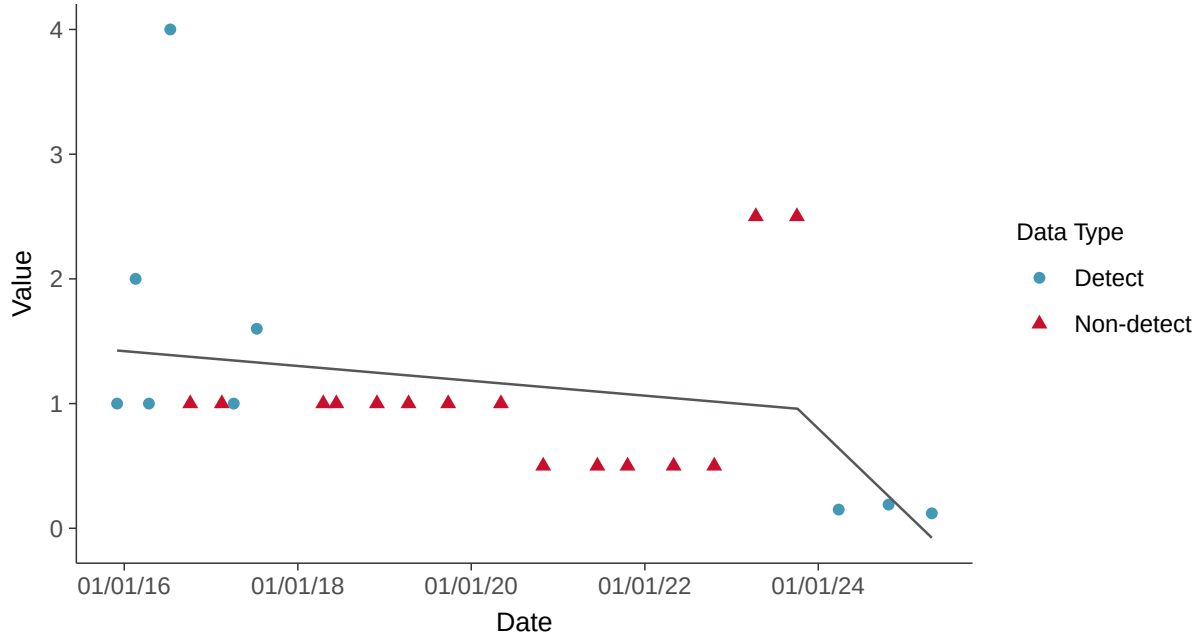
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-15021 (ug/L)



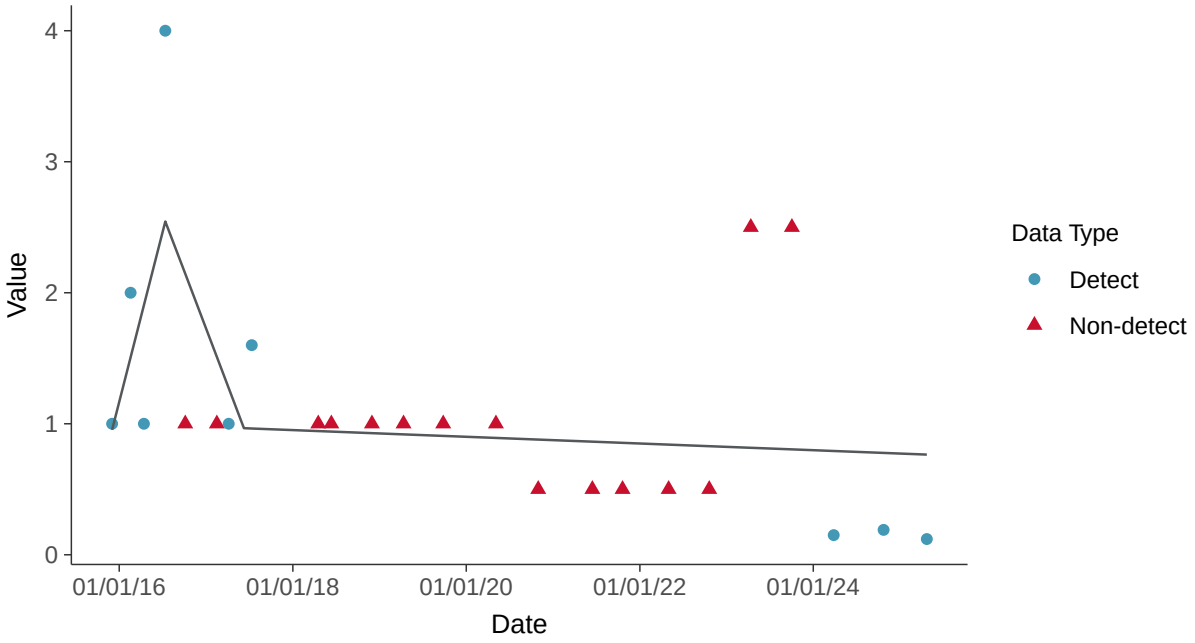
Trend Regression: Piecewise Linear-Linear

Selenium, MW-15021 (ug/L)



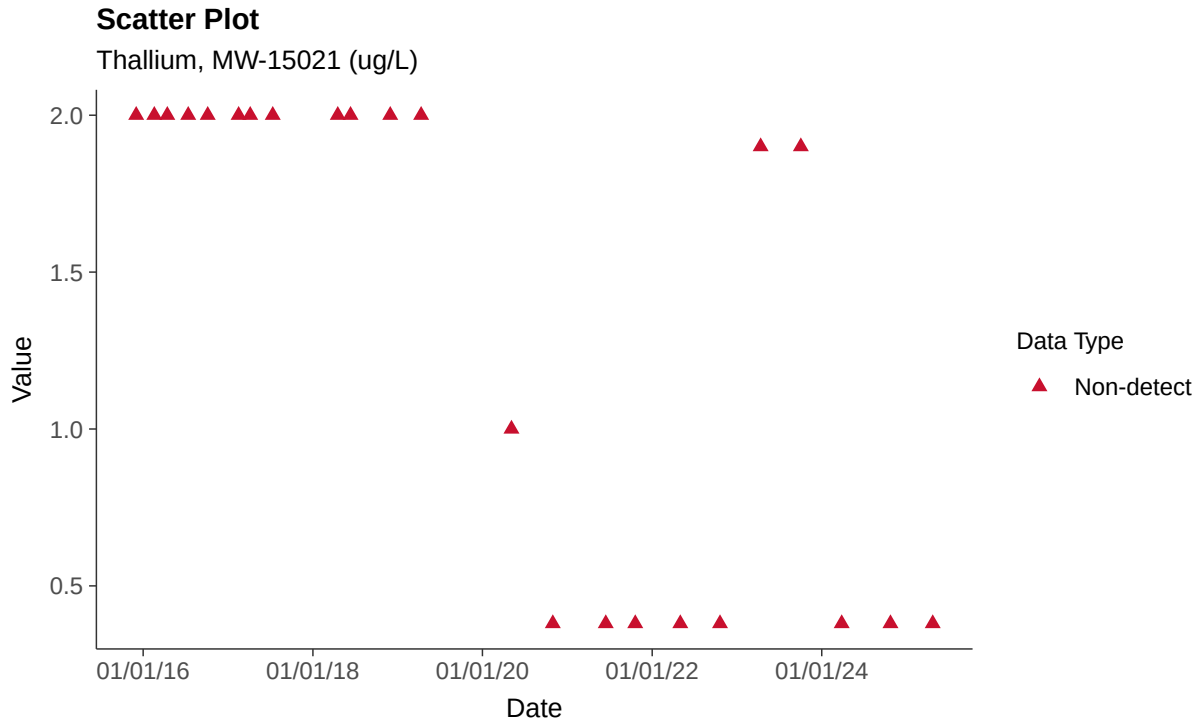
Trend Regression: Piecewise Linear-Linear-Linear

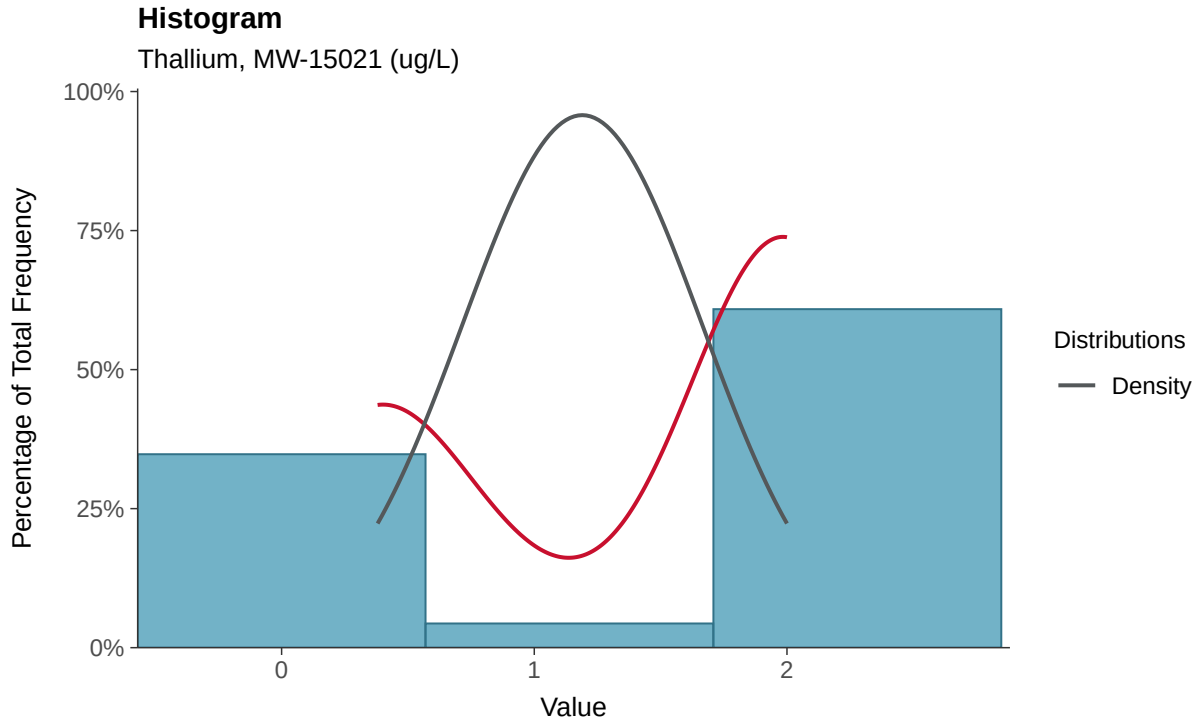
Selenium, MW-15021 (ug/L)



Appendix IV: Thallium, MW-15021

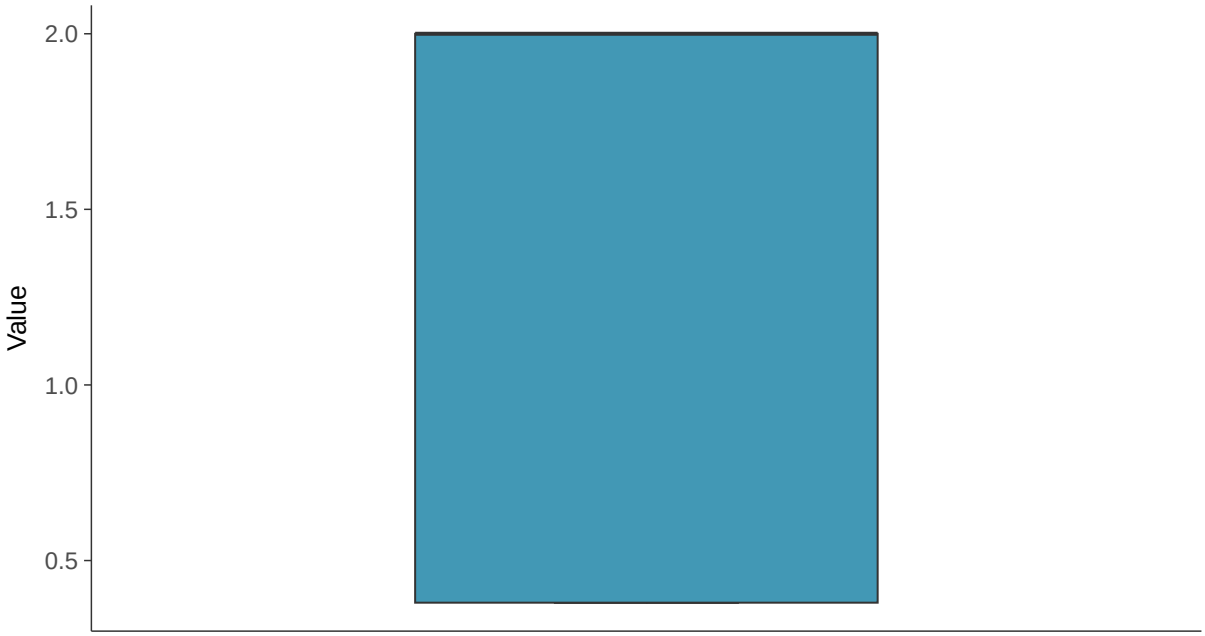
ID: 11_2_131





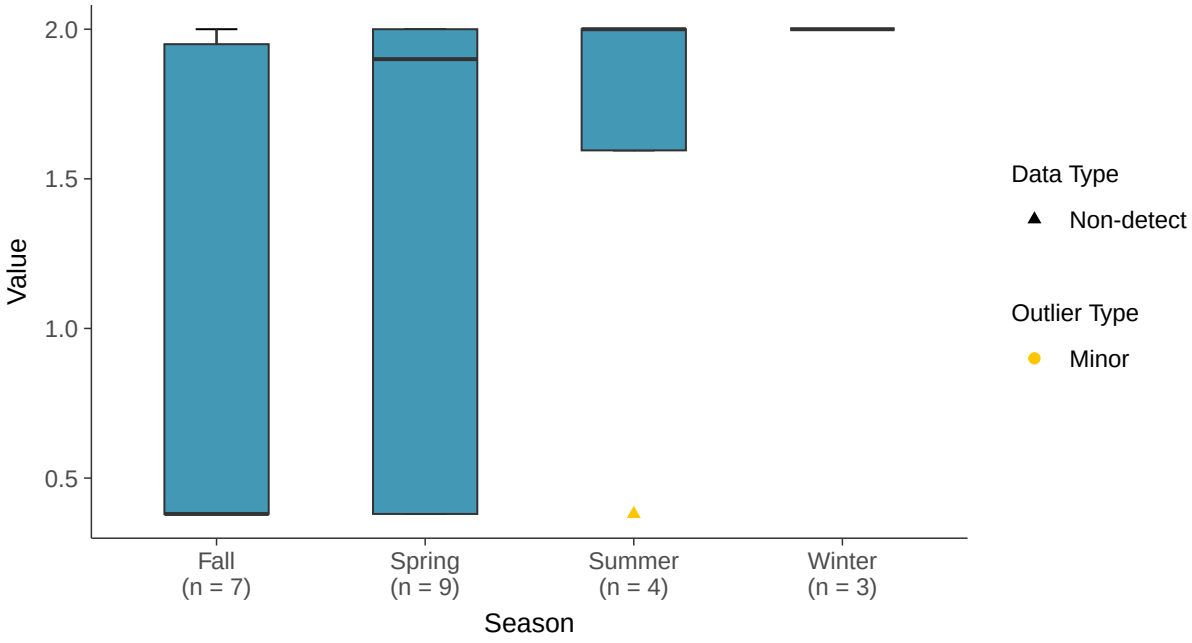
Boxplot

Thallium, MW-15021 (ug/L)



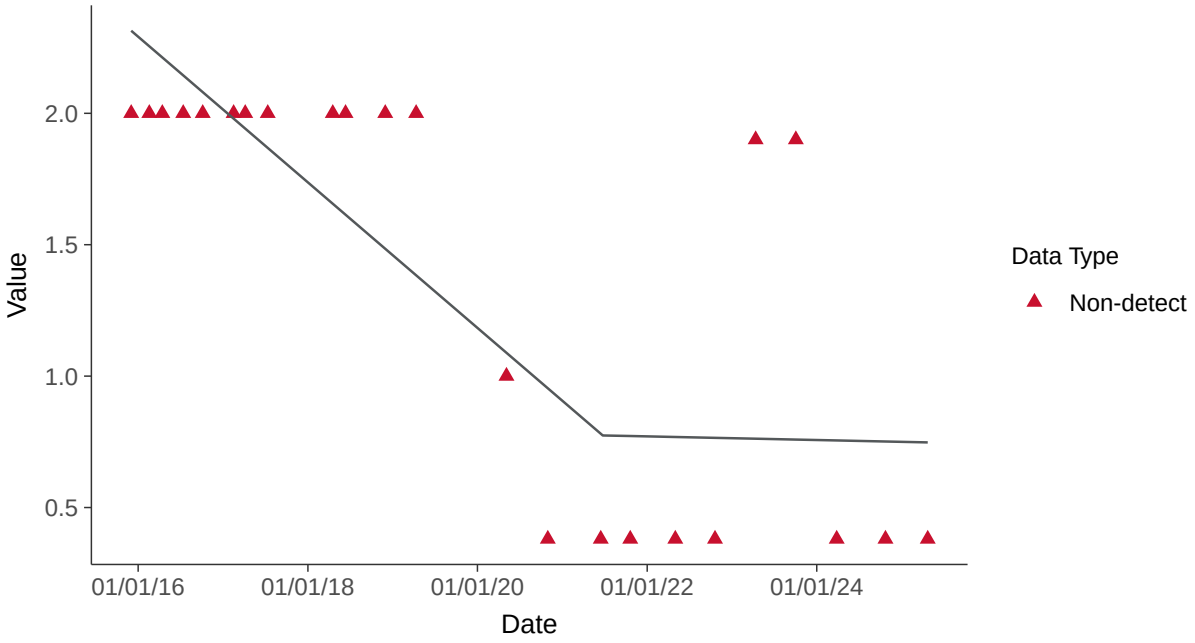
Boxplot by Season

Thallium, MW-15021 (ug/L)



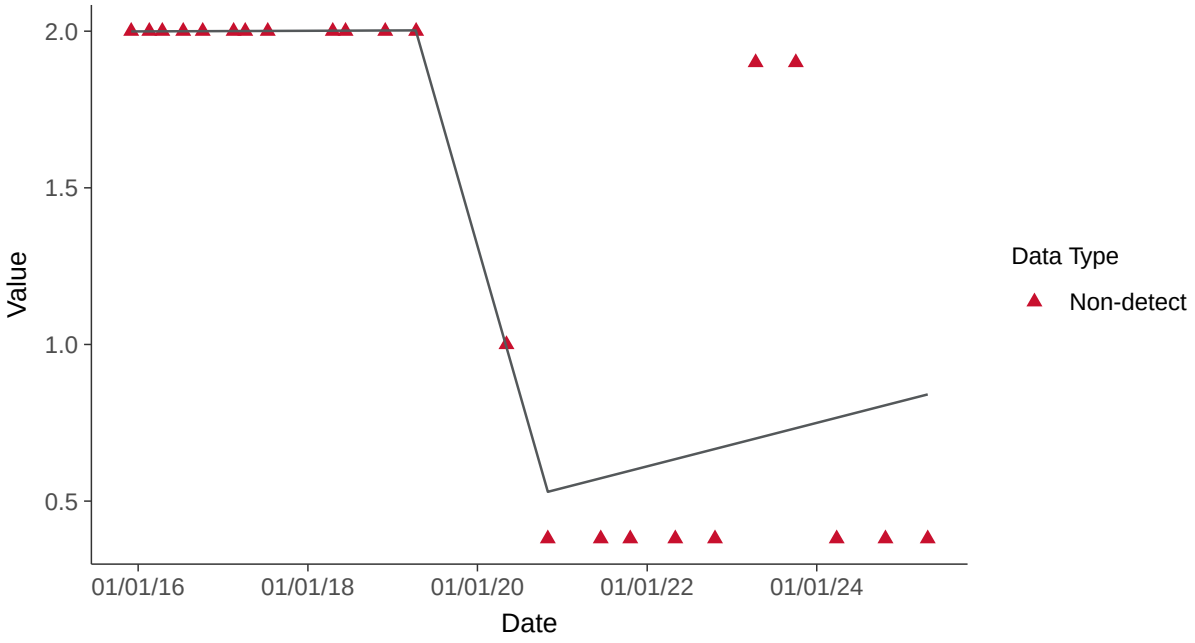
Trend Regression: Piecewise Linear-Linear

Thallium, MW-15021 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-15021 (ug/L)

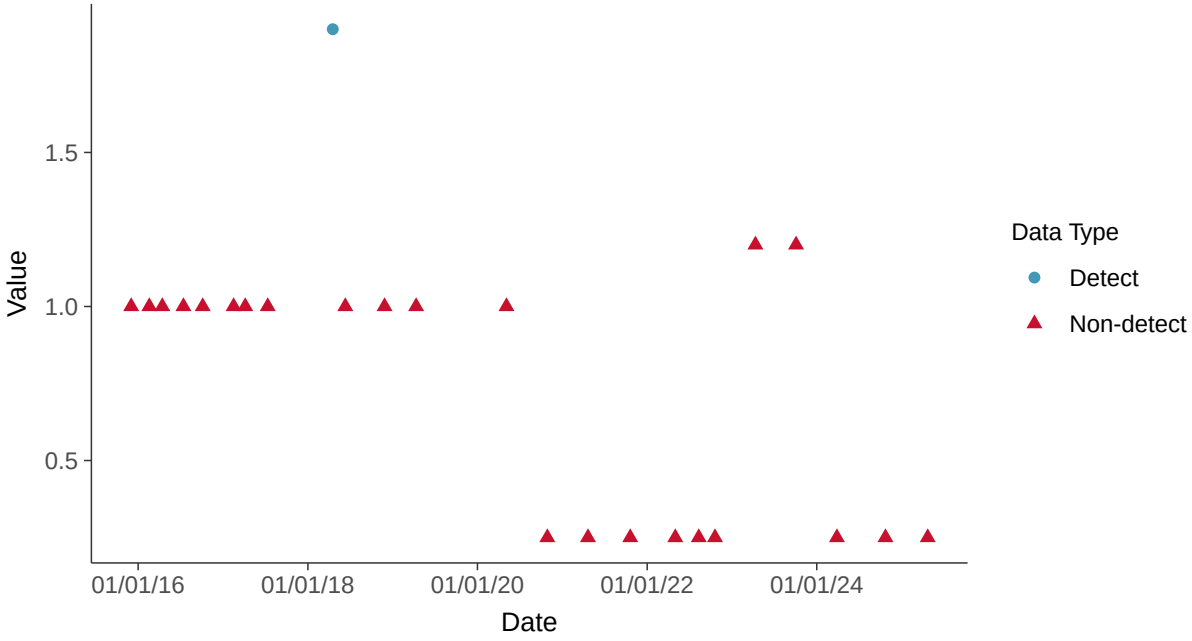


Appendix IV: Antimony, MW-15022

ID: 12_2_101

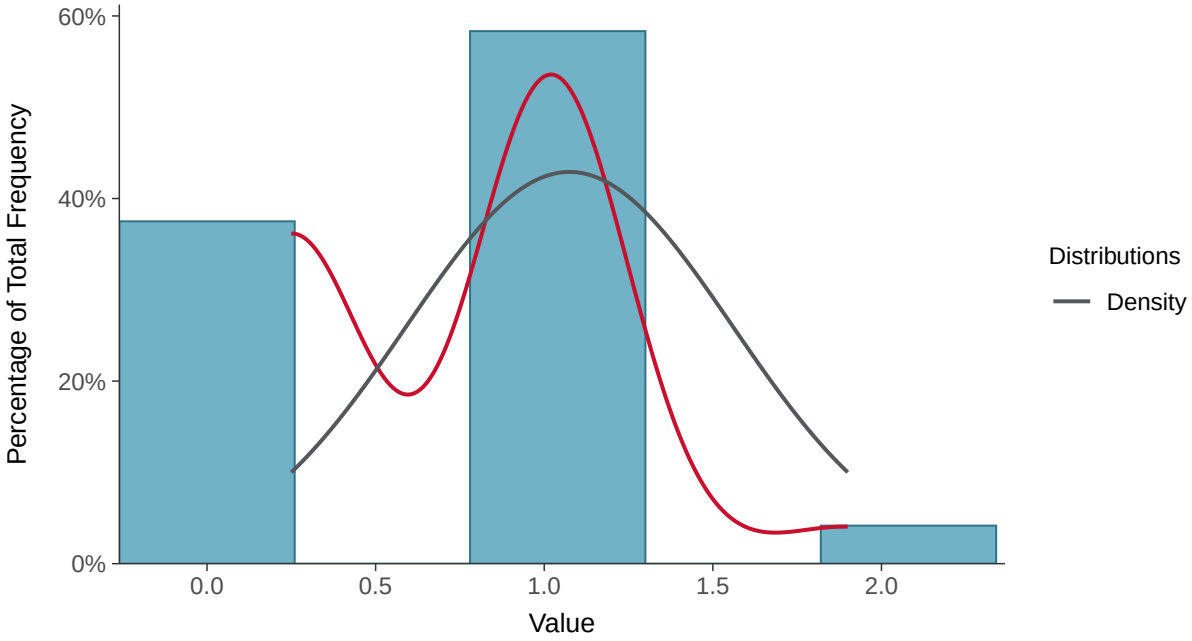
Scatter Plot

Antimony, MW-15022 (ug/L)



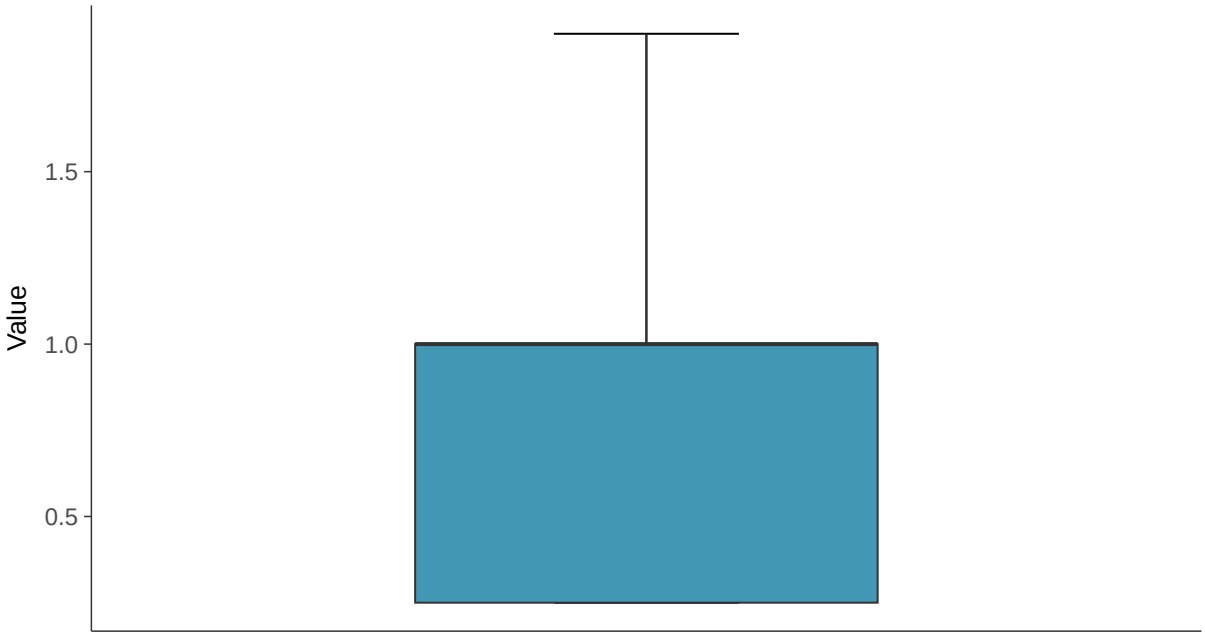
Histogram

Antimony, MW-15022 (ug/L)



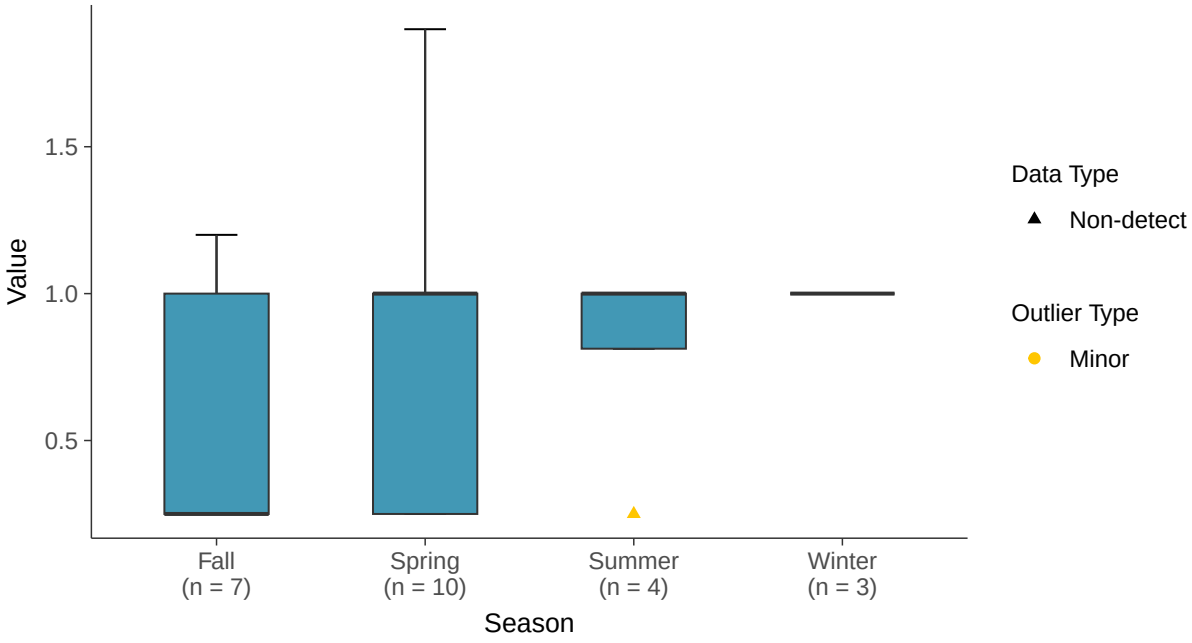
Boxplot

Antimony, MW-15022 (ug/L)



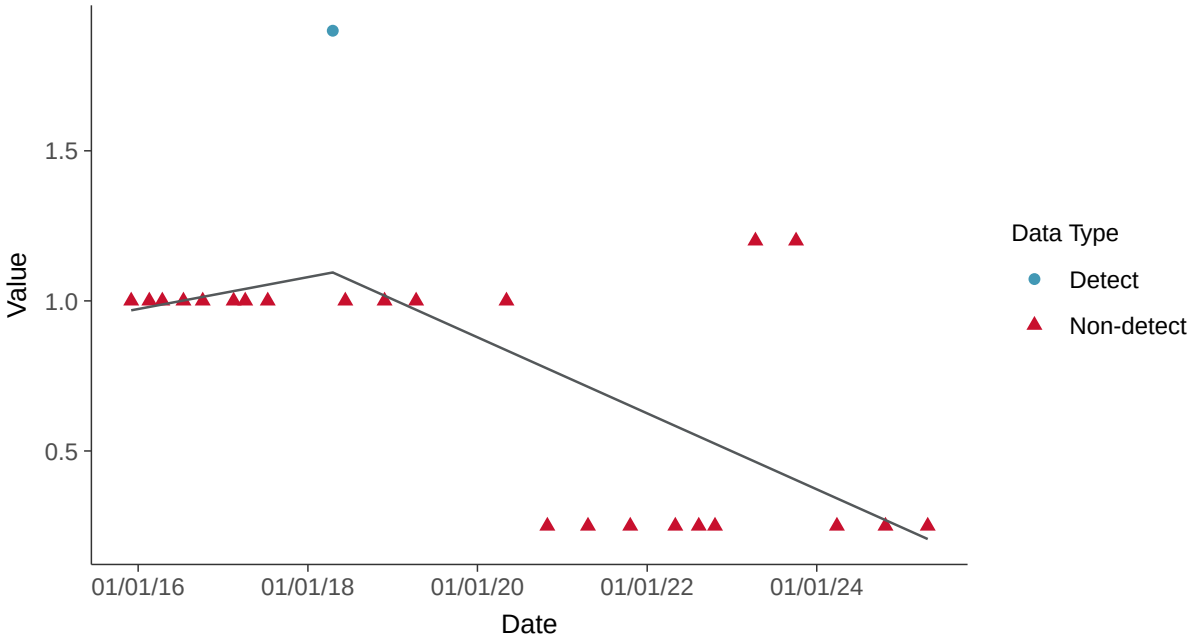
Boxplot by Season

Antimony, MW-15022 (ug/L)



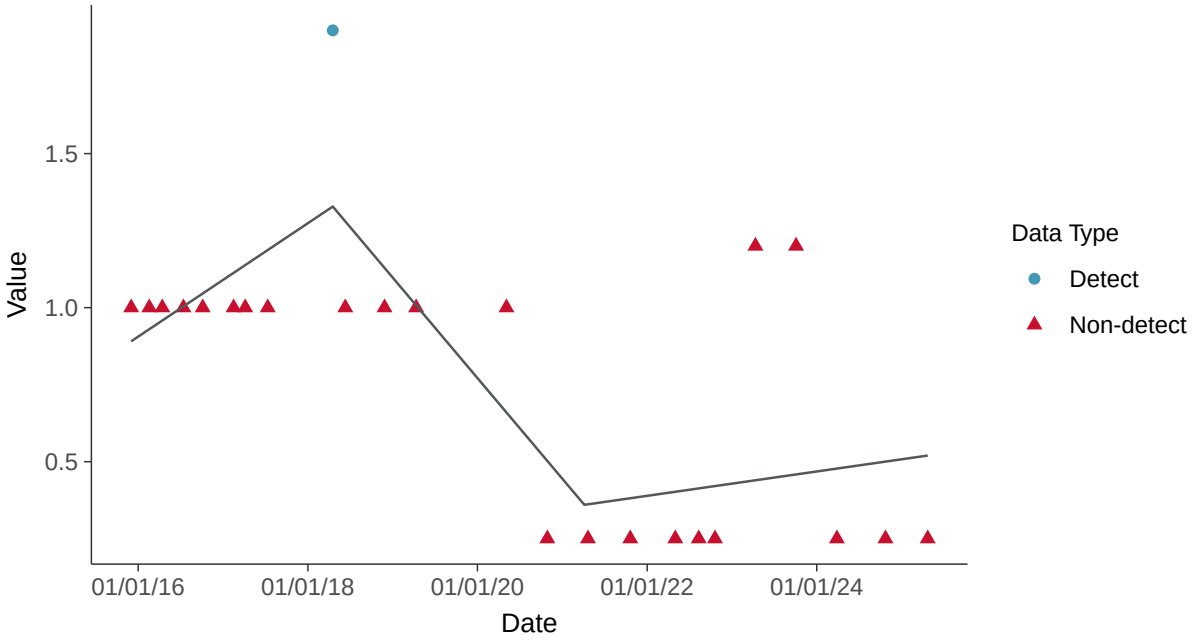
Trend Regression: Piecewise Linear-Linear

Antimony, MW-15022 (ug/L)



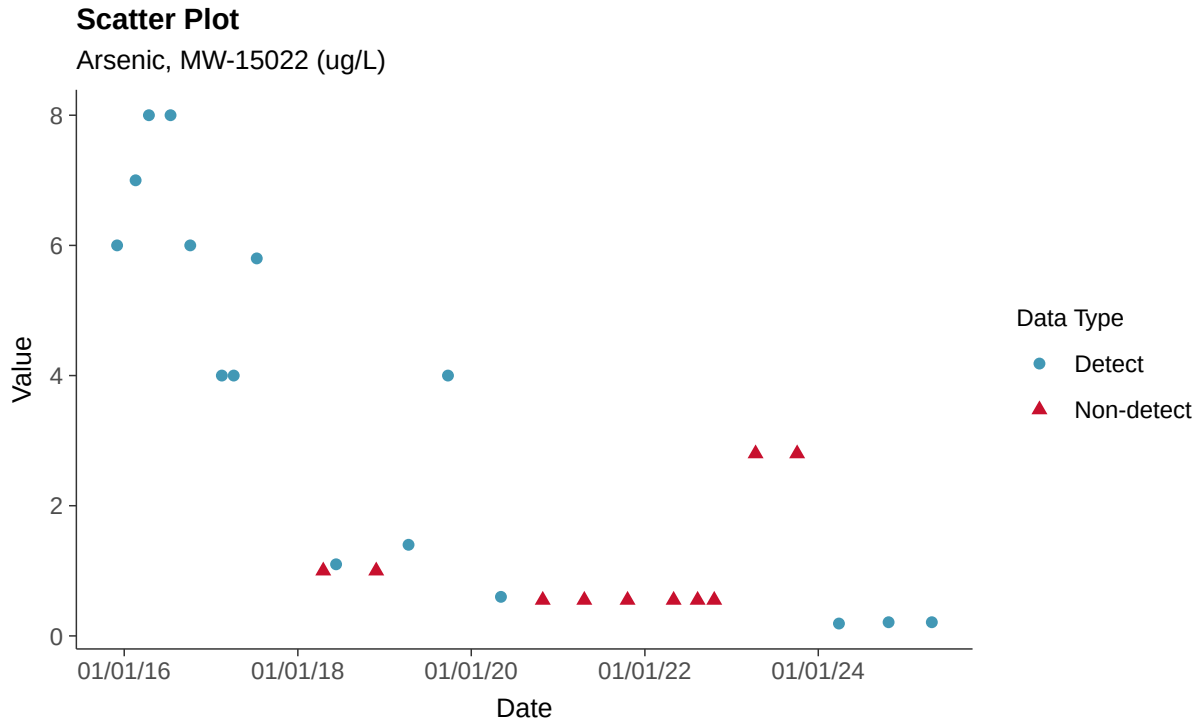
Trend Regression: Piecewise Linear-Linear-Linear

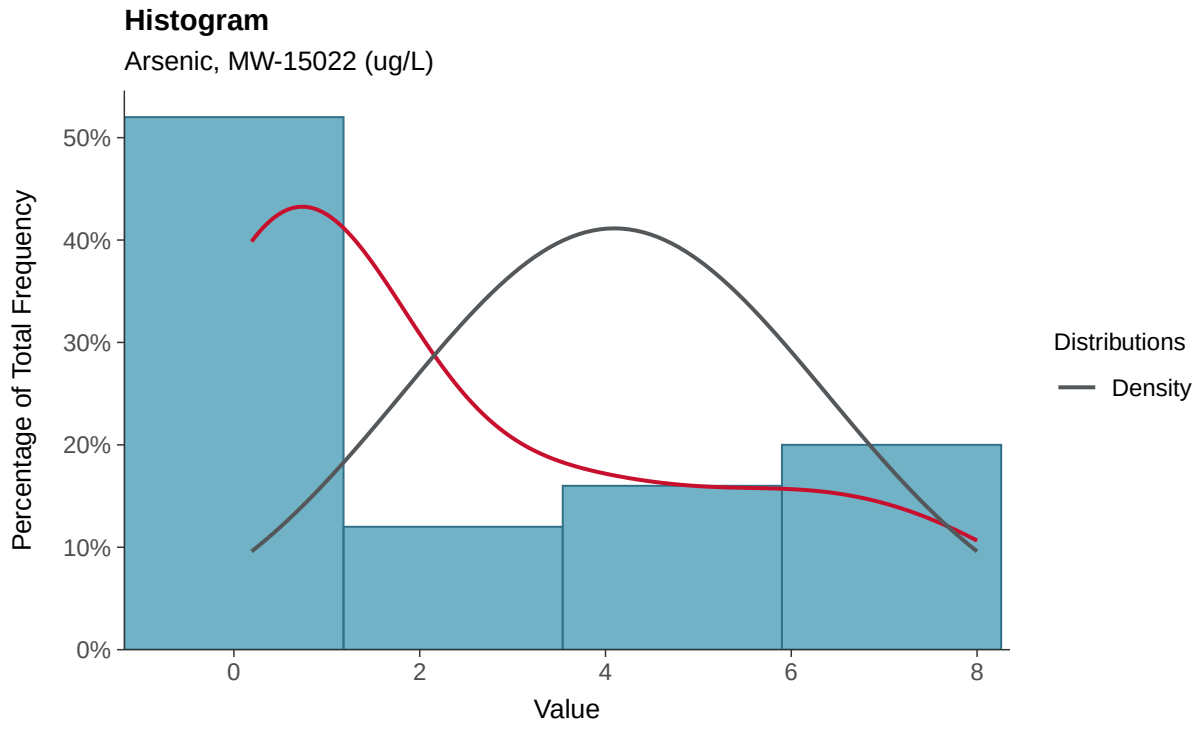
Antimony, MW-15022 (ug/L)



Appendix IV: Arsenic, MW-15022

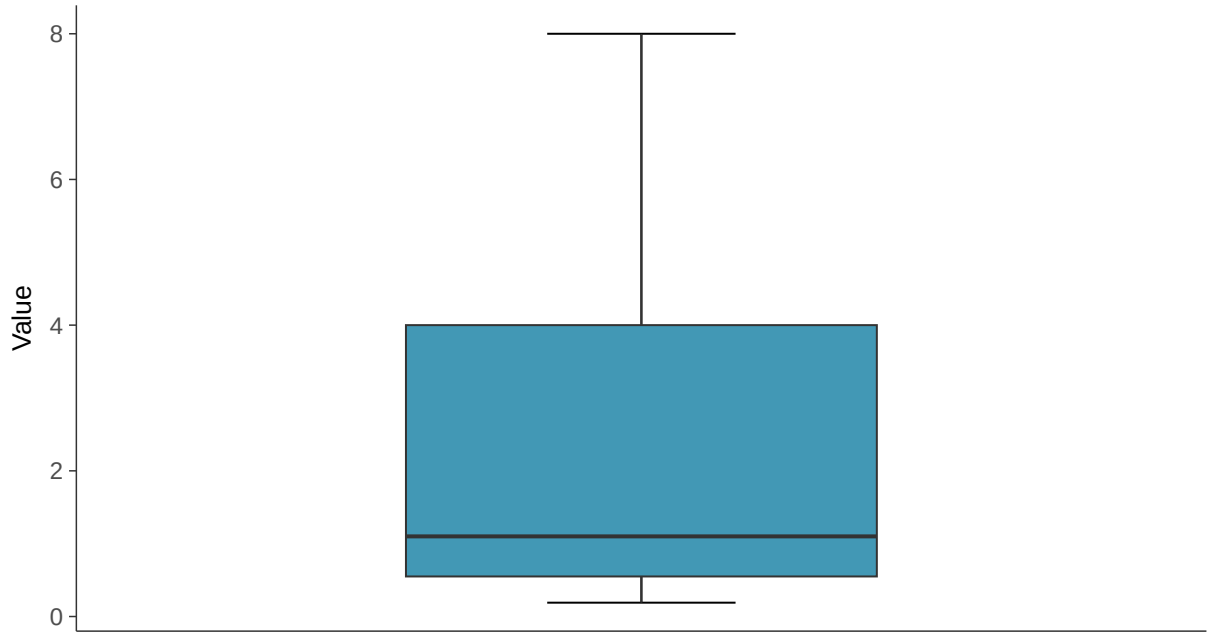
ID: 12_2_102





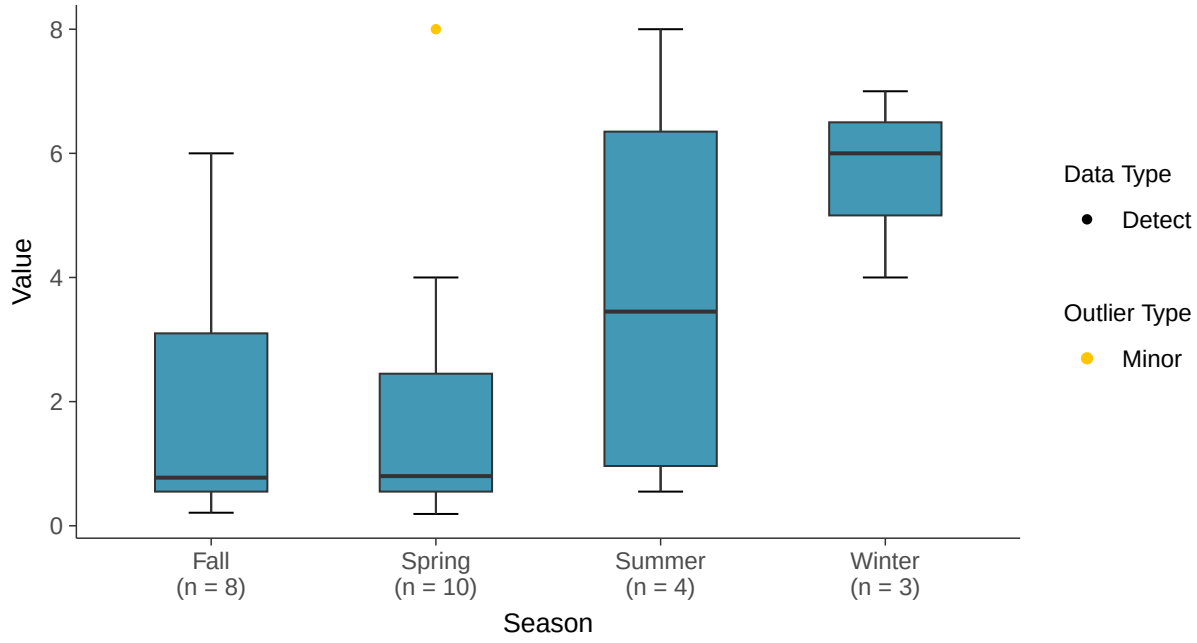
Boxplot

Arsenic, MW-15022 (ug/L)



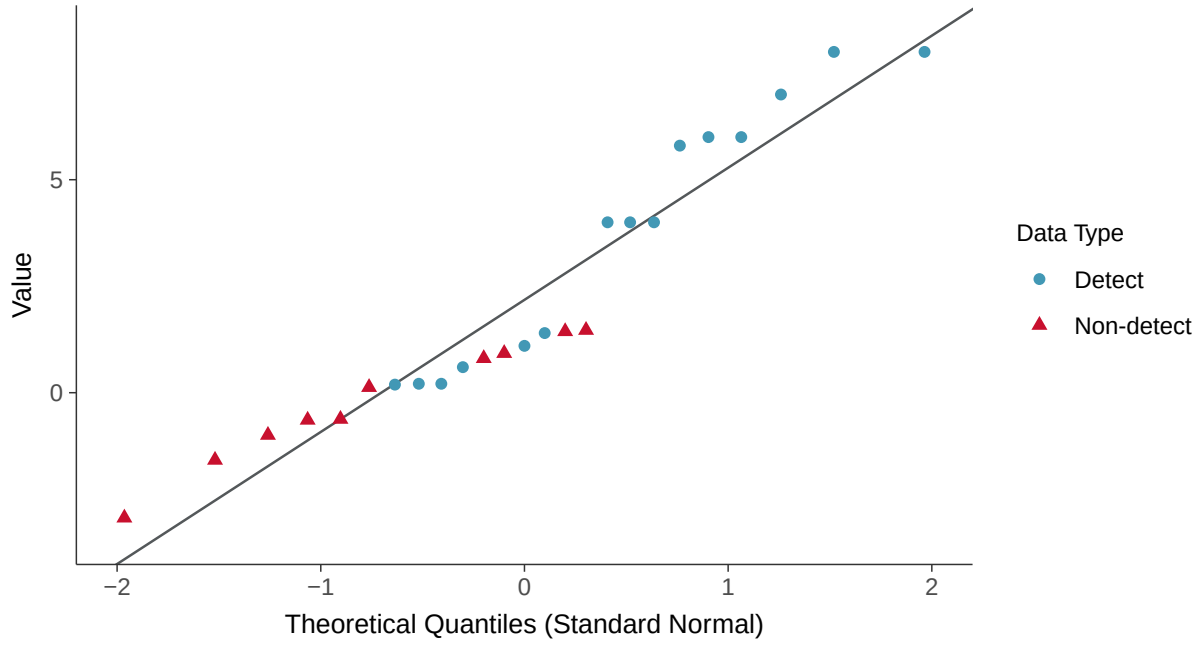
Boxplot by Season

Arsenic, MW-15022 (ug/L)



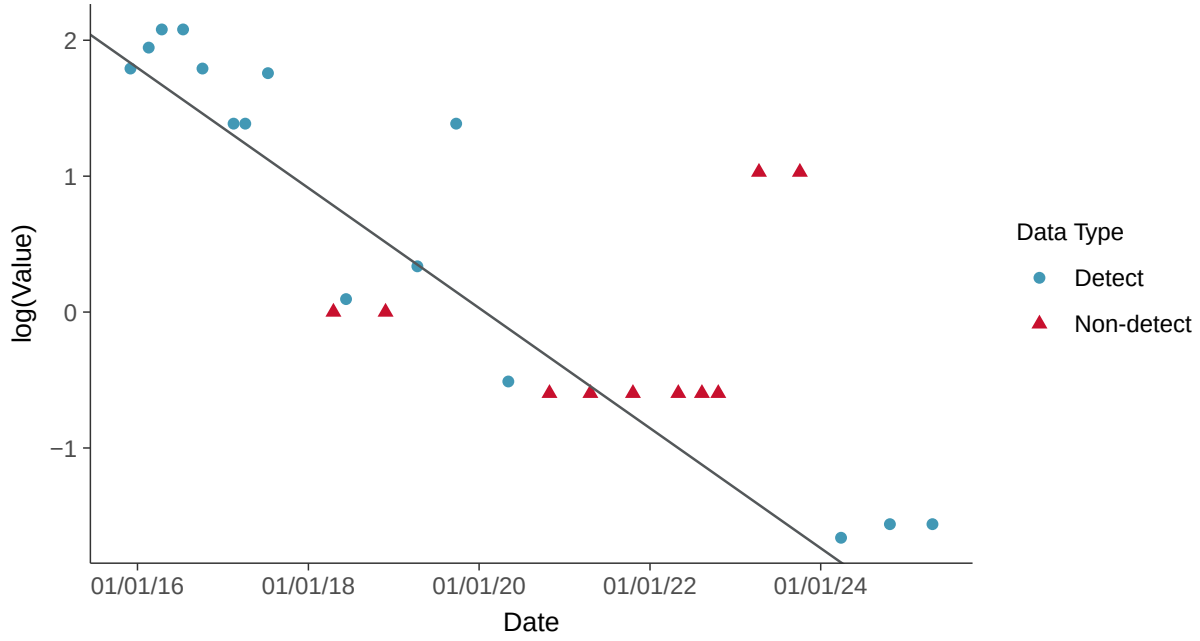
Normal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15022 (ug/L)



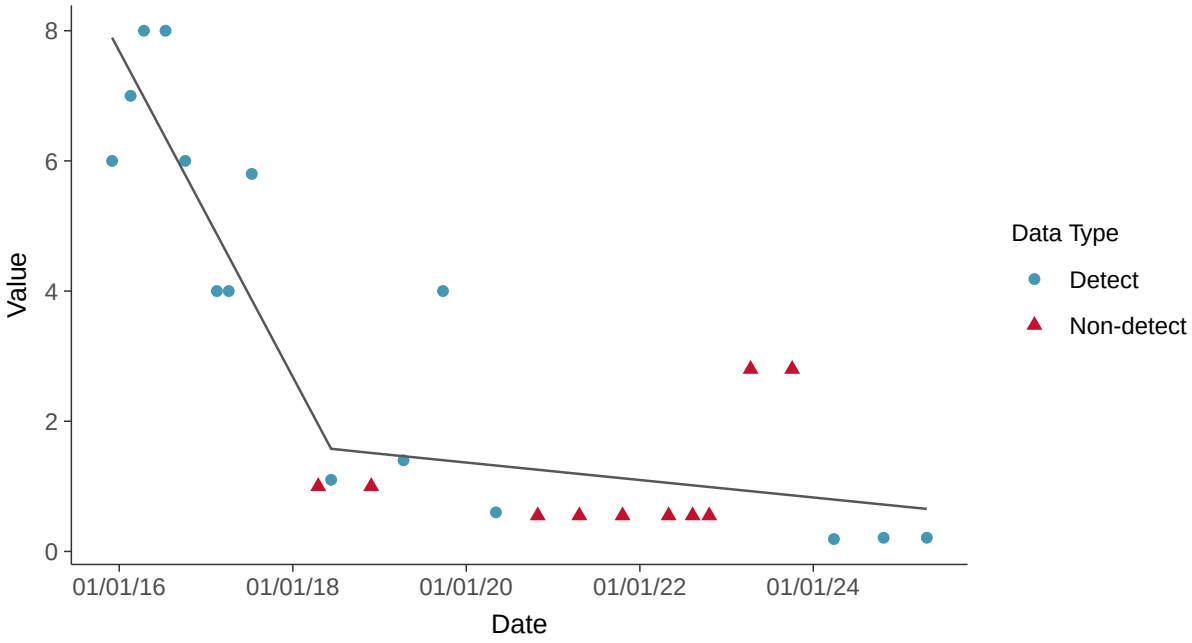
Trend Regression: Lognormal MLE

Arsenic, MW-15022 (ug/L)



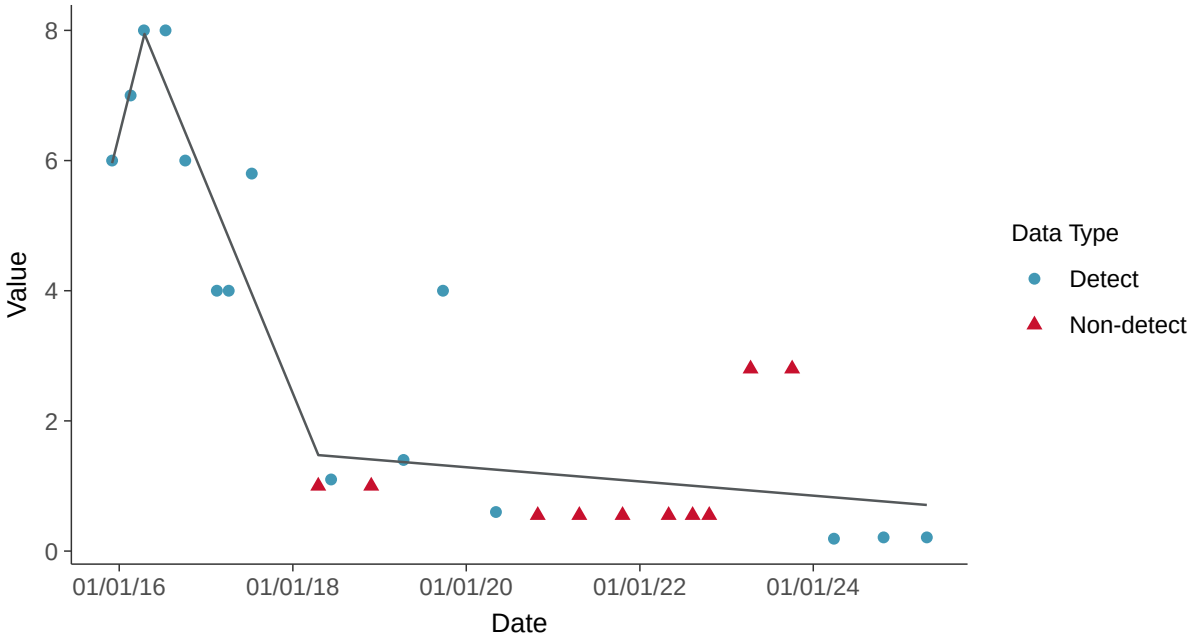
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-15022 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-15022 (ug/L)

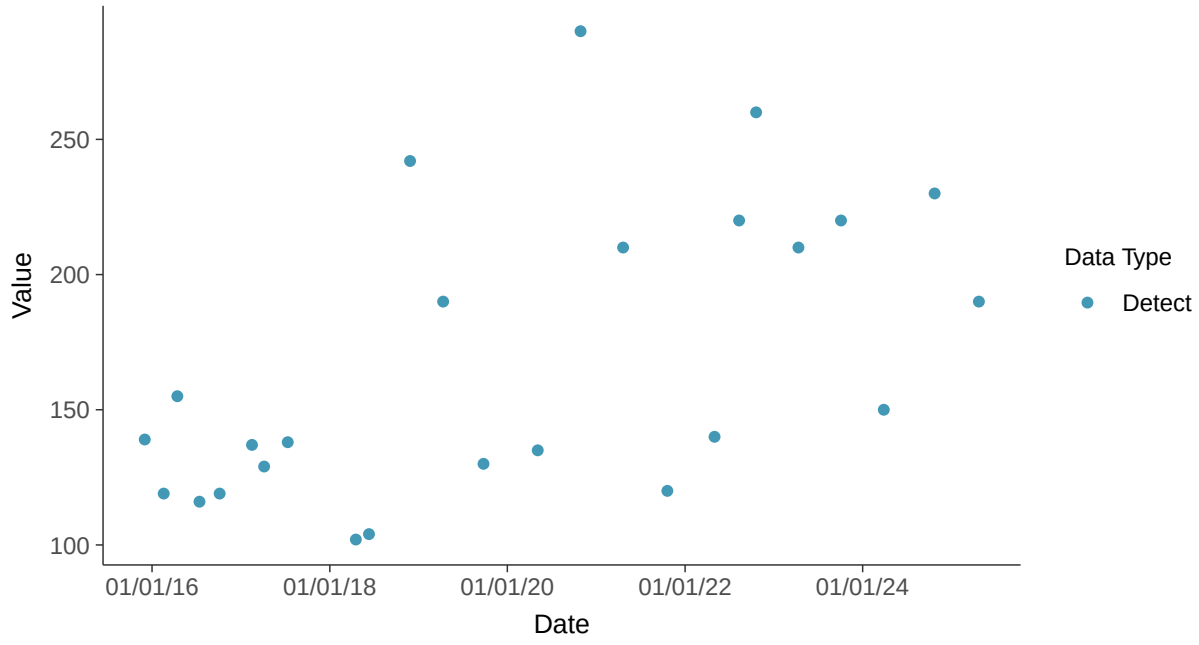


Appendix IV: Barium, MW-15022

ID: 12_2_103

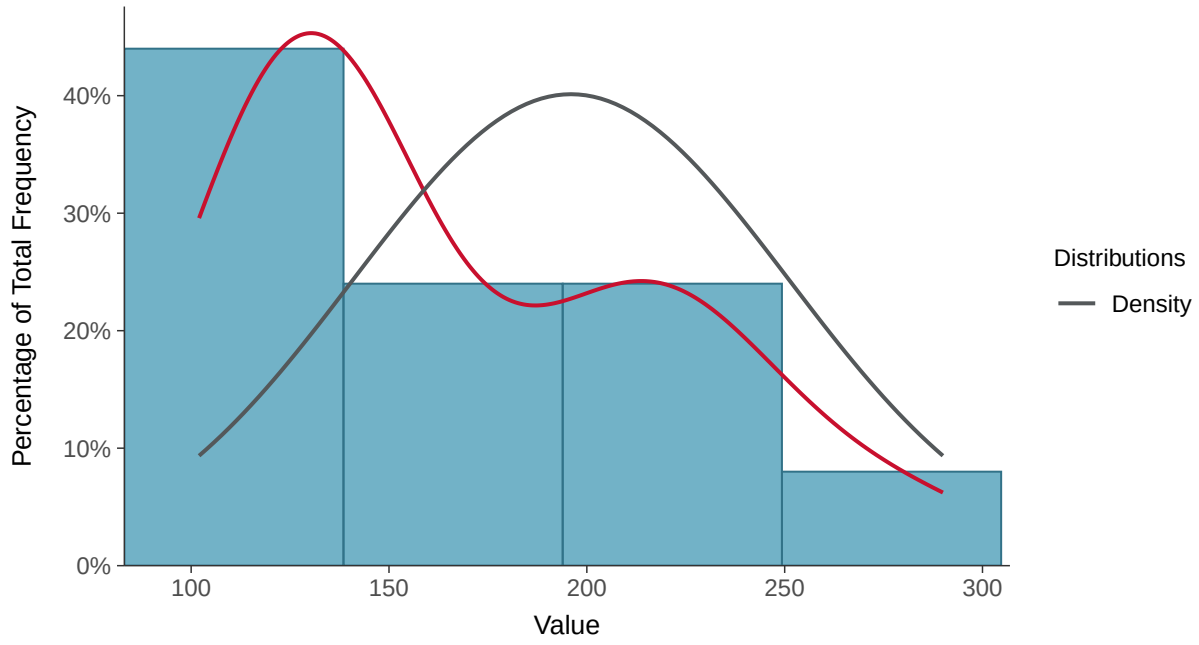
Scatter Plot

Barium, MW-15022 (ug/L)



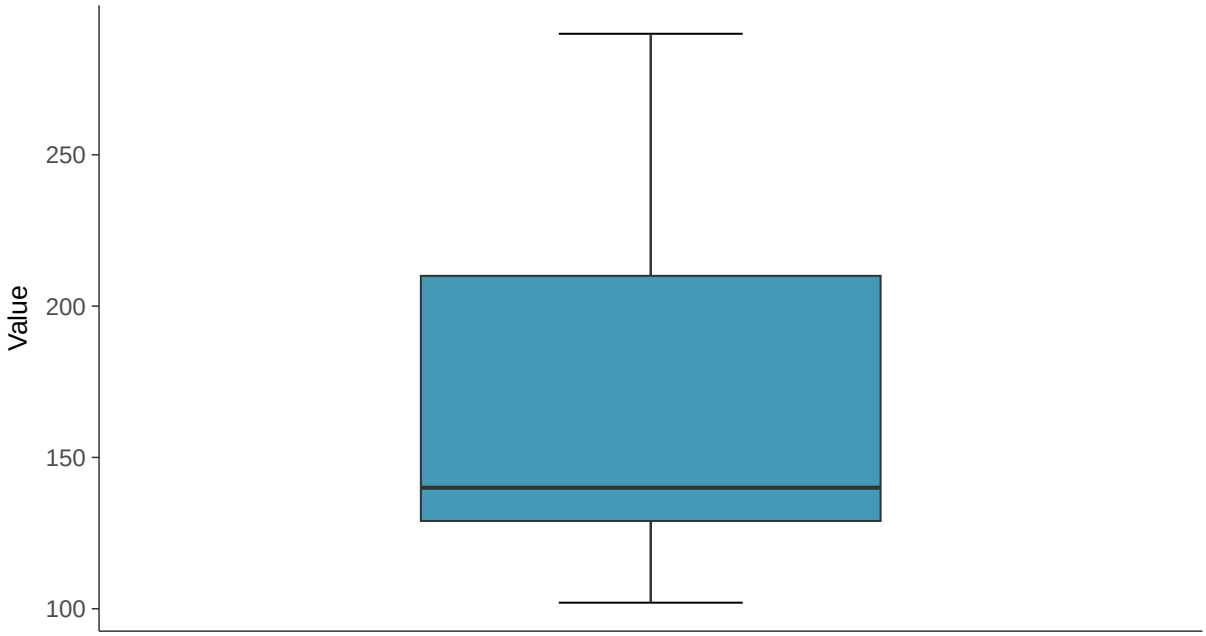
Histogram

Barium, MW-15022 (ug/L)



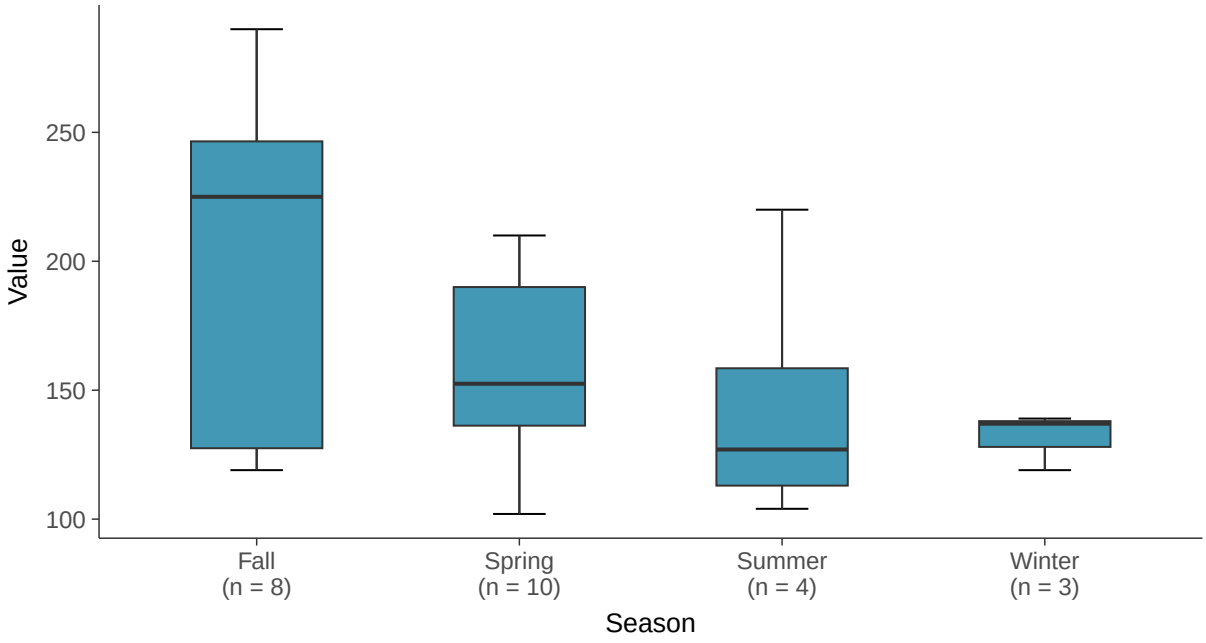
Boxplot

Barium, MW-15022 (ug/L)



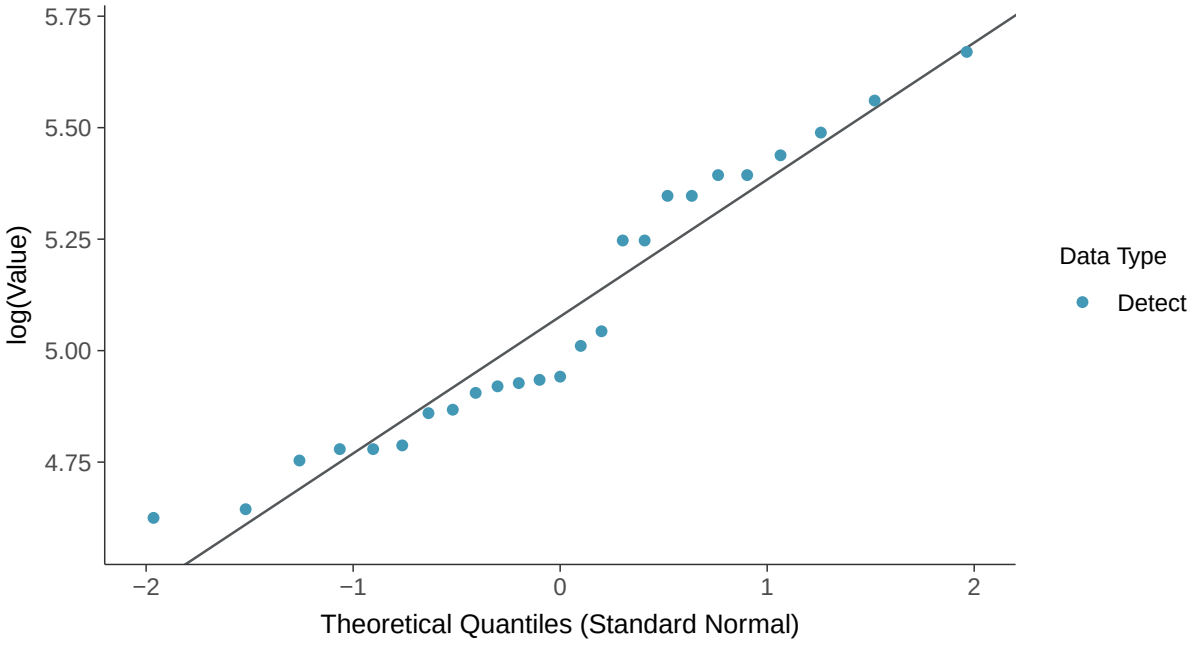
Boxplot by Season

Barium, MW-15022 (ug/L)



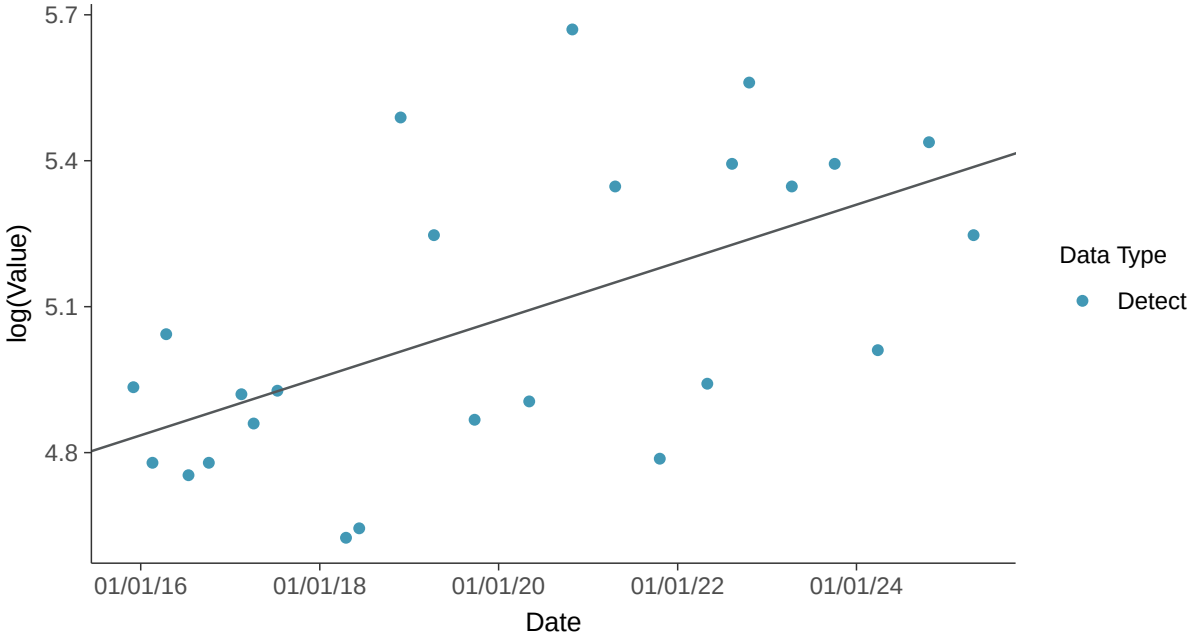
Lognormal Q-Q plot

Barium, MW-15022 (ug/L)



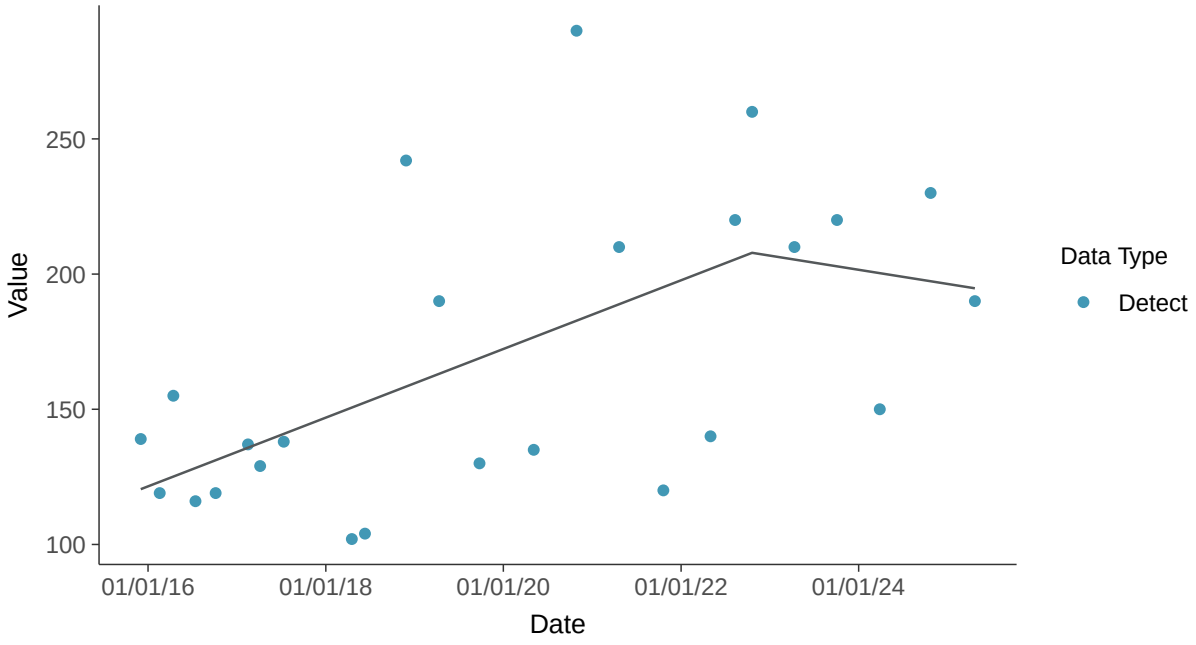
Trend Regression: Lognormal MLE

Barium, MW-15022 (ug/L)



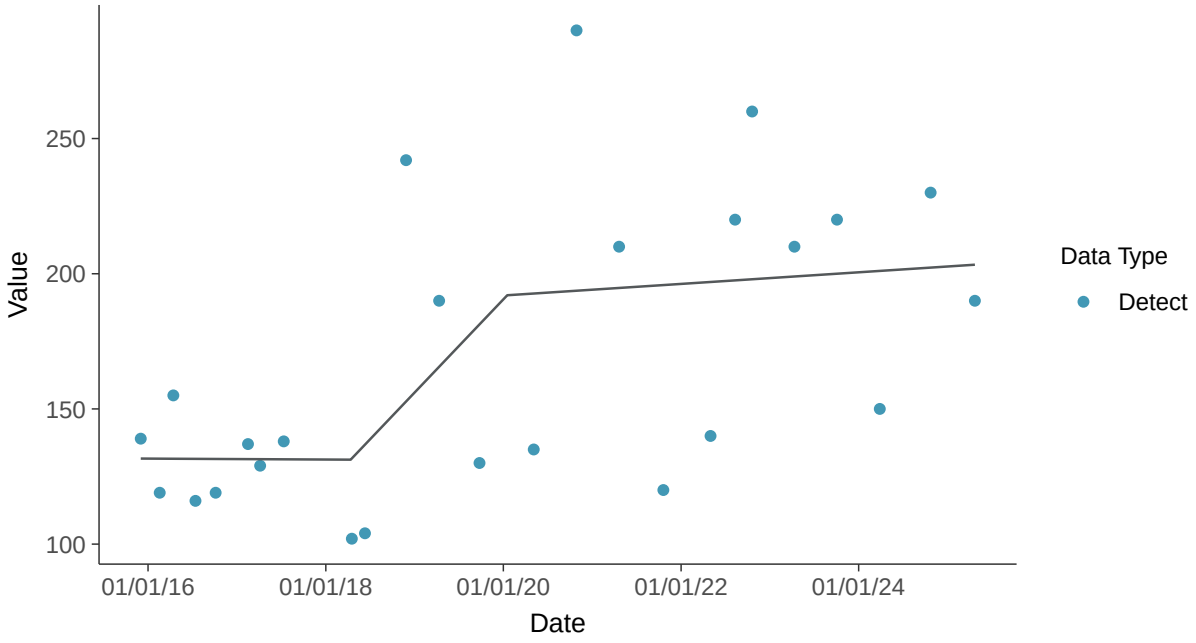
Trend Regression: Piecewise Linear-Linear

Barium, MW-15022 (ug/L)



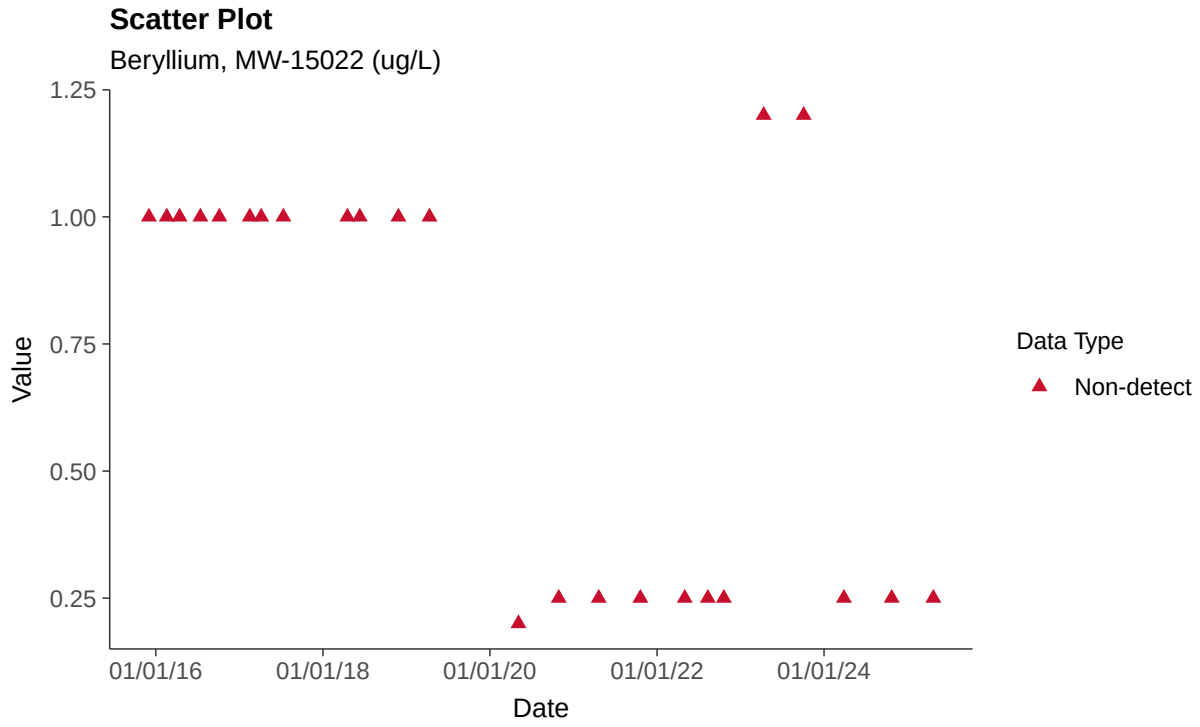
Trend Regression: Piecewise Linear-Linear-Linear

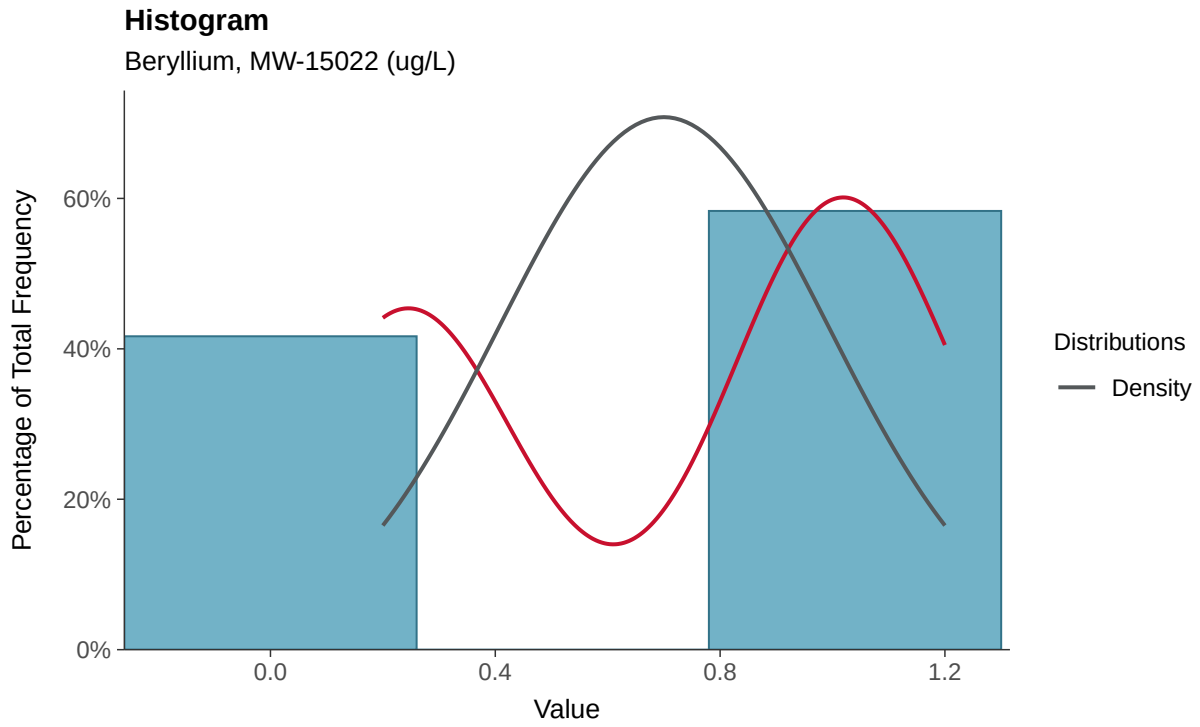
Barium, MW-15022 (ug/L)



Appendix IV: Beryllium, MW-15022

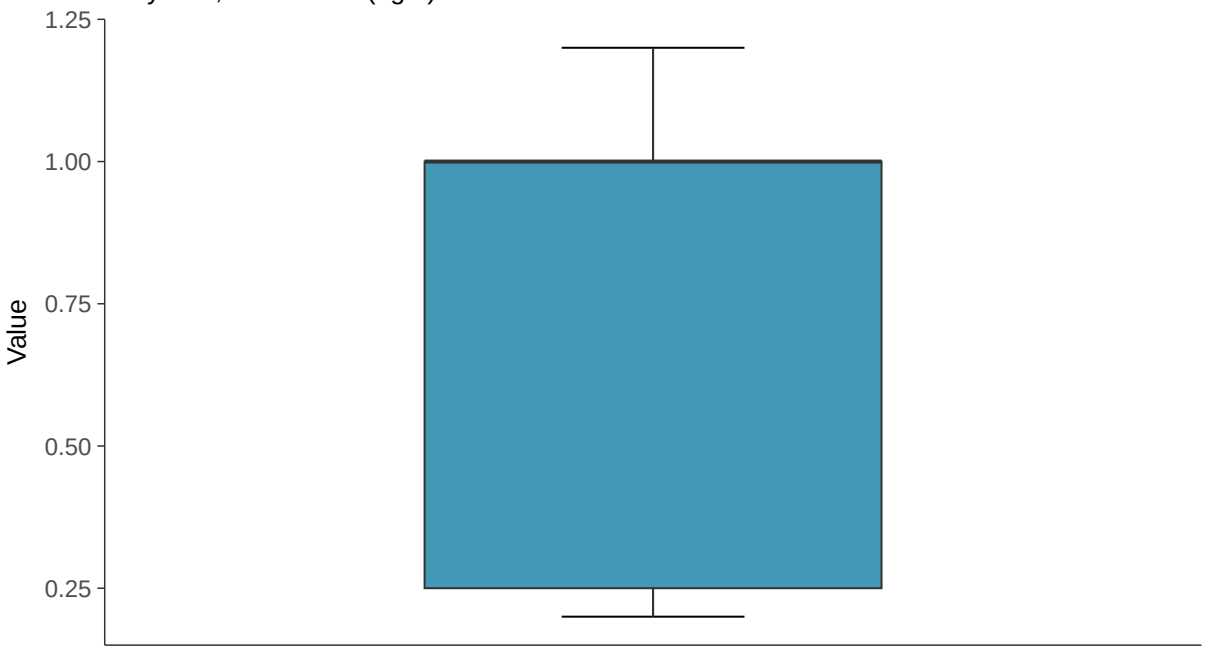
ID: 12_2_104





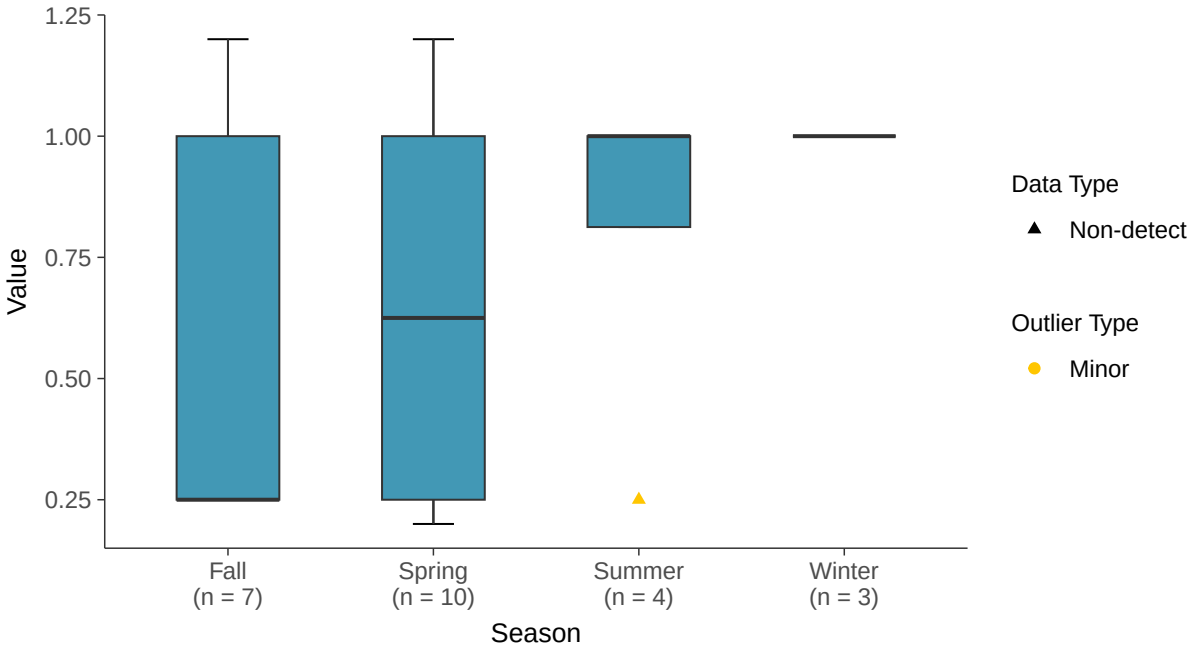
Boxplot

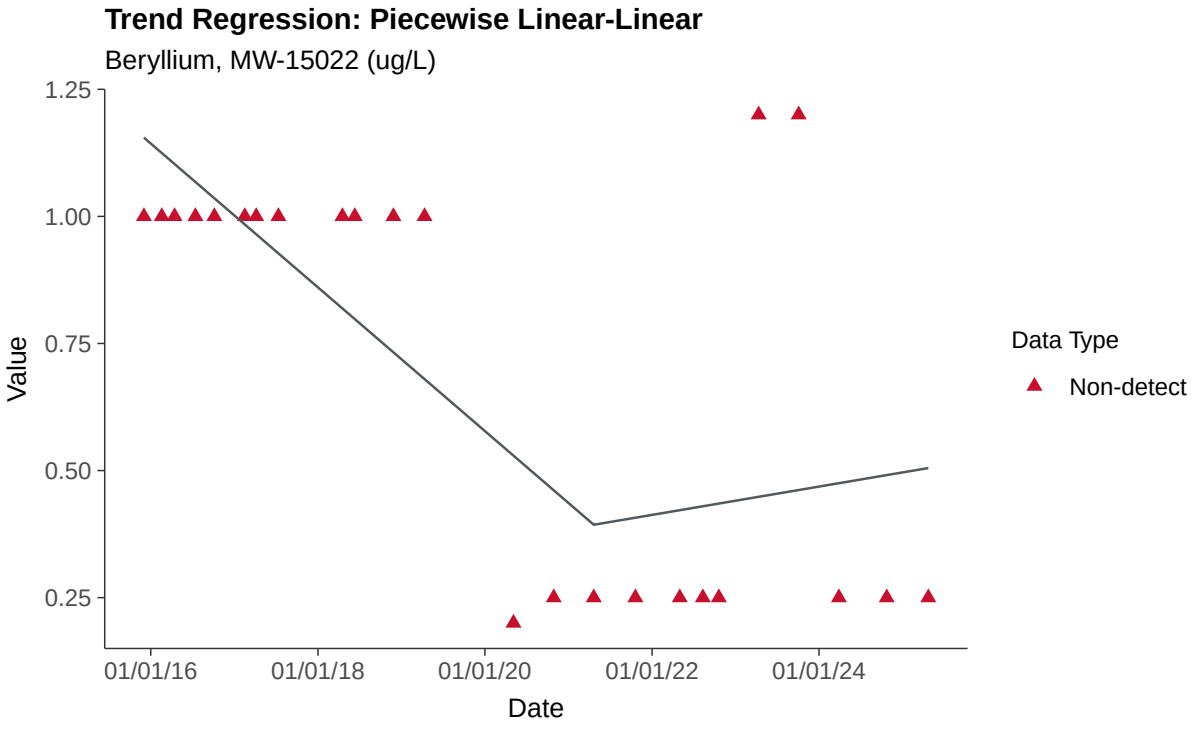
Beryllium, MW-15022 (ug/L)



Boxplot by Season

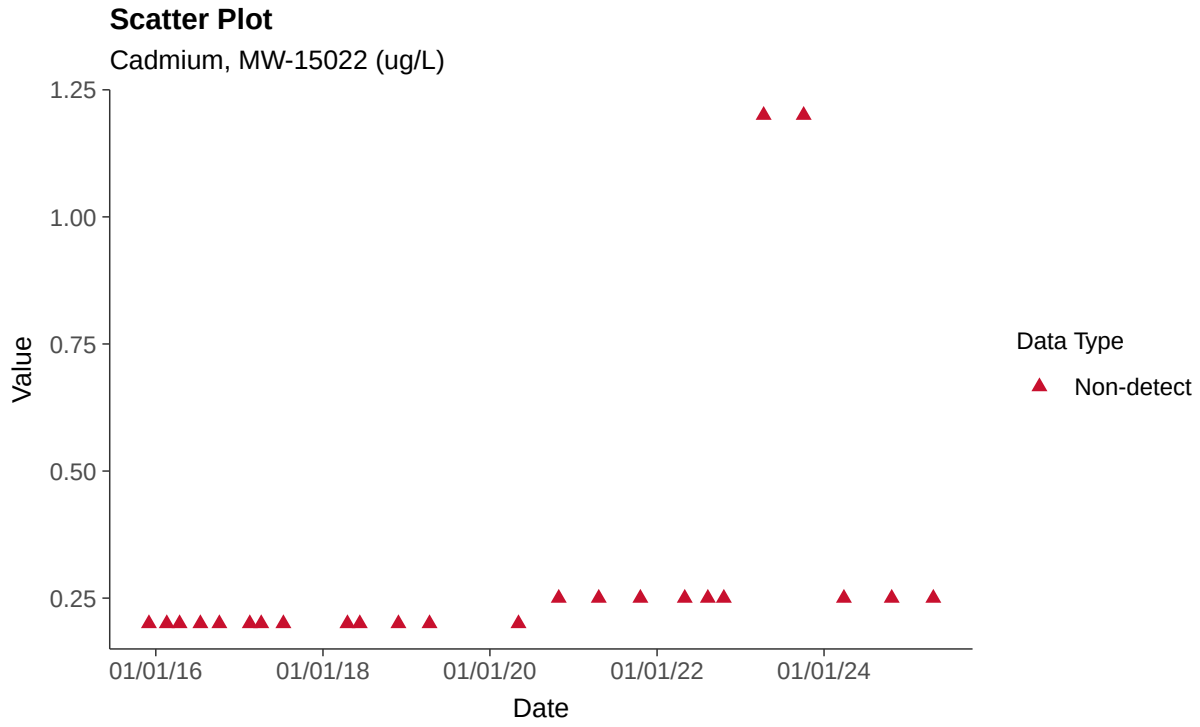
Beryllium, MW-15022 (ug/L)

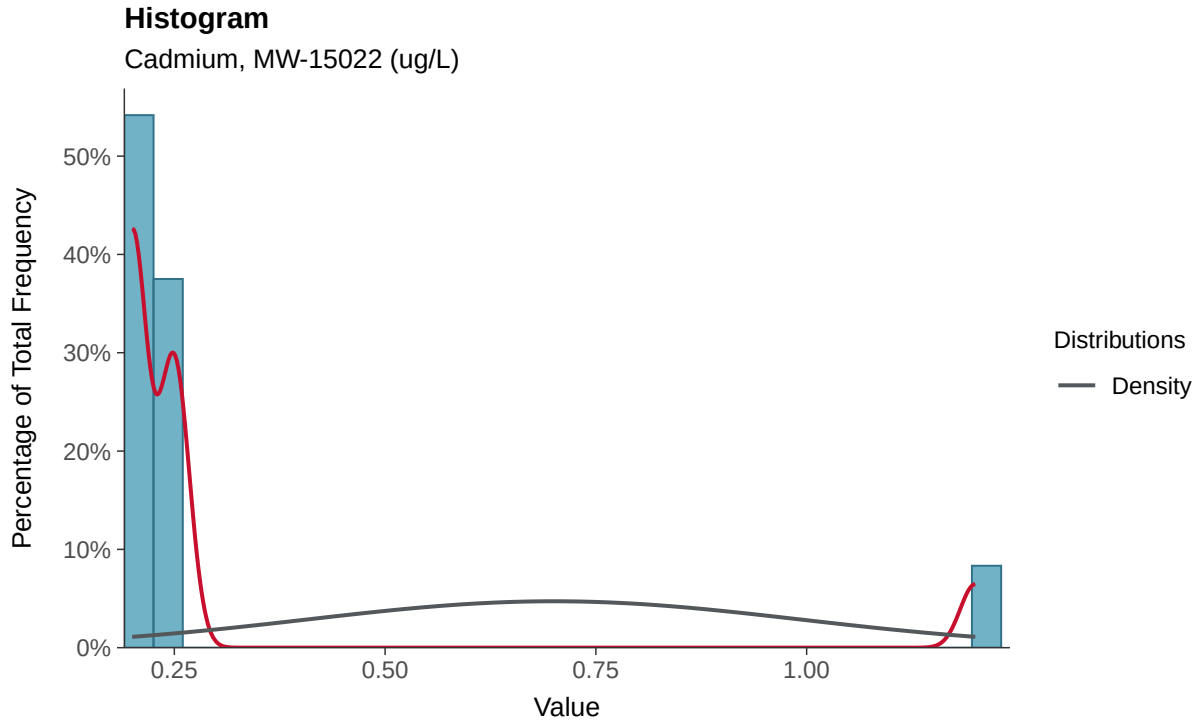



Trend Regression: Piecewise Linear-Linear
Beryllium, MW-15022 (ug/L)
1.25
1.00
0.75
0.50
0.25
Value
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Non-detect

Appendix IV: Cadmium, MW-15022

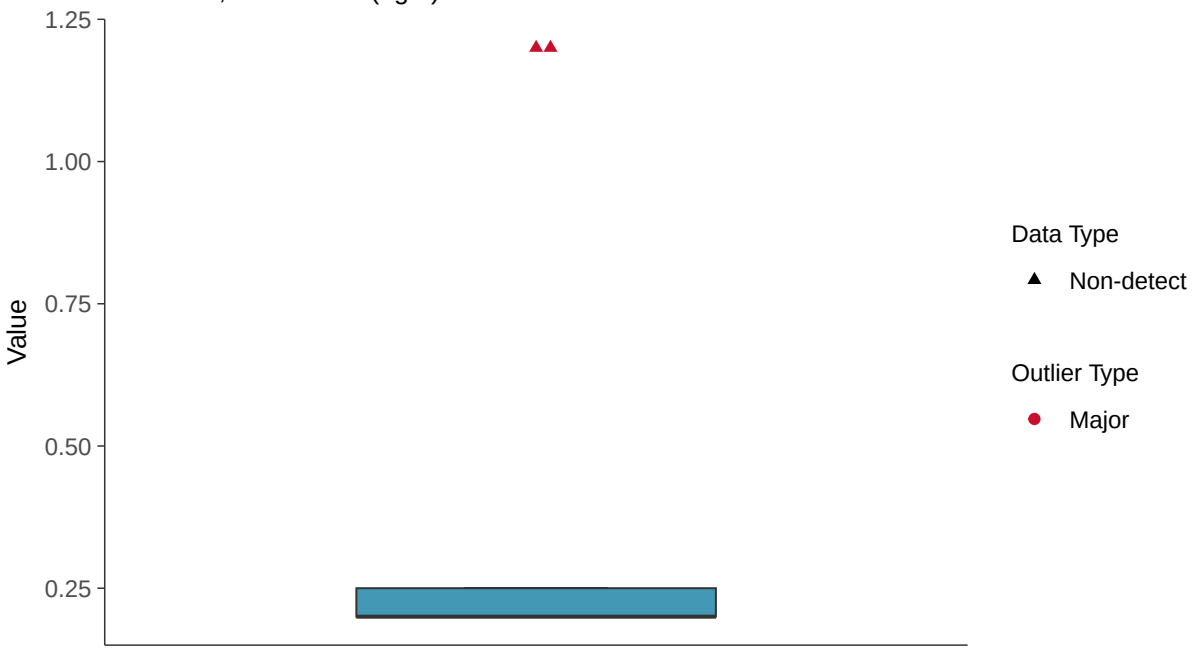
ID: 12_2_106





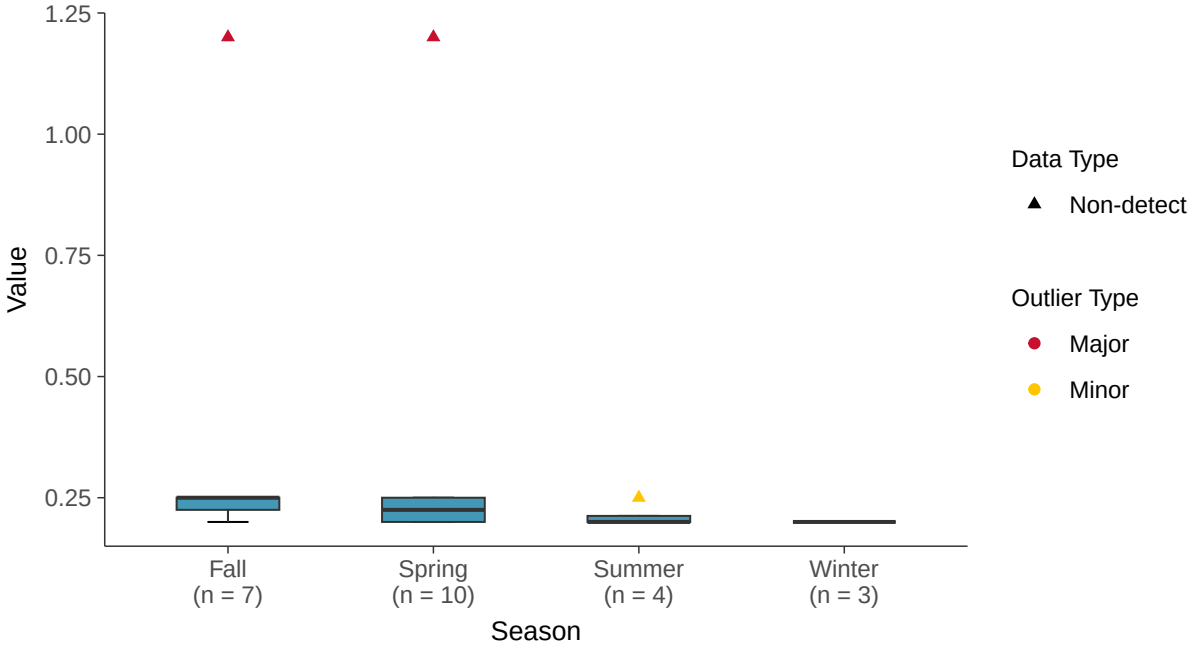
Boxplot

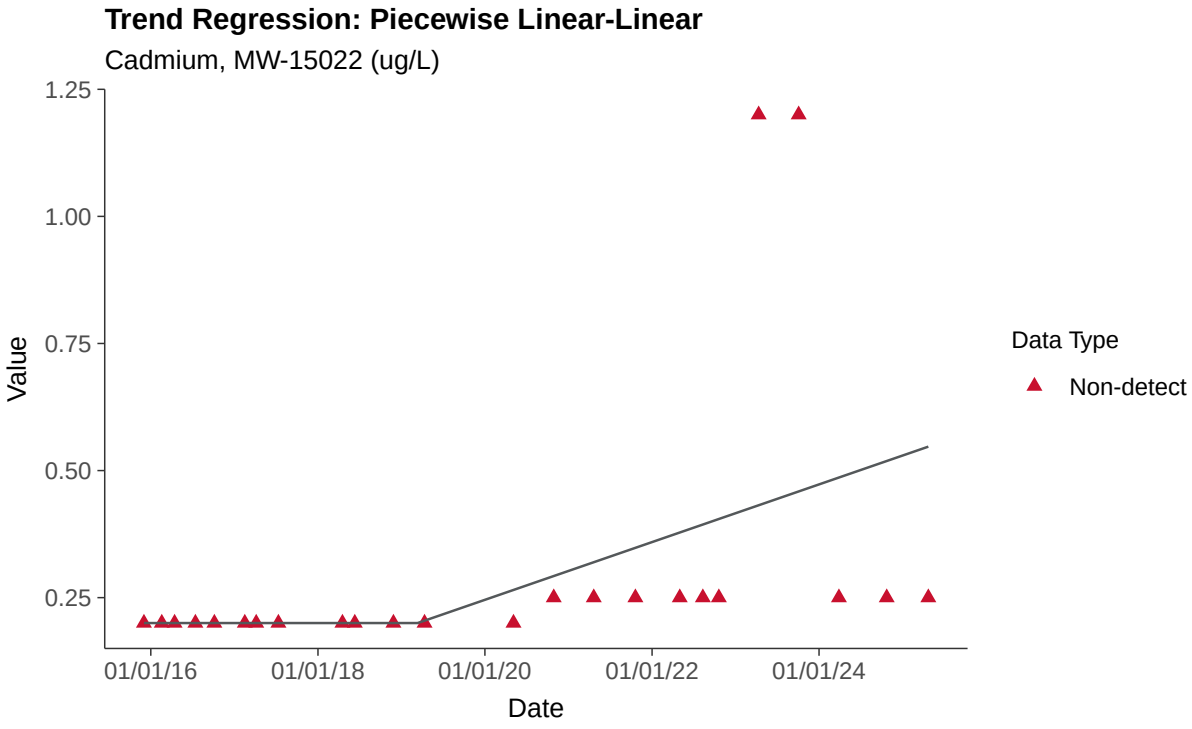
Cadmium, MW-15022 (ug/L)



Boxplot by Season

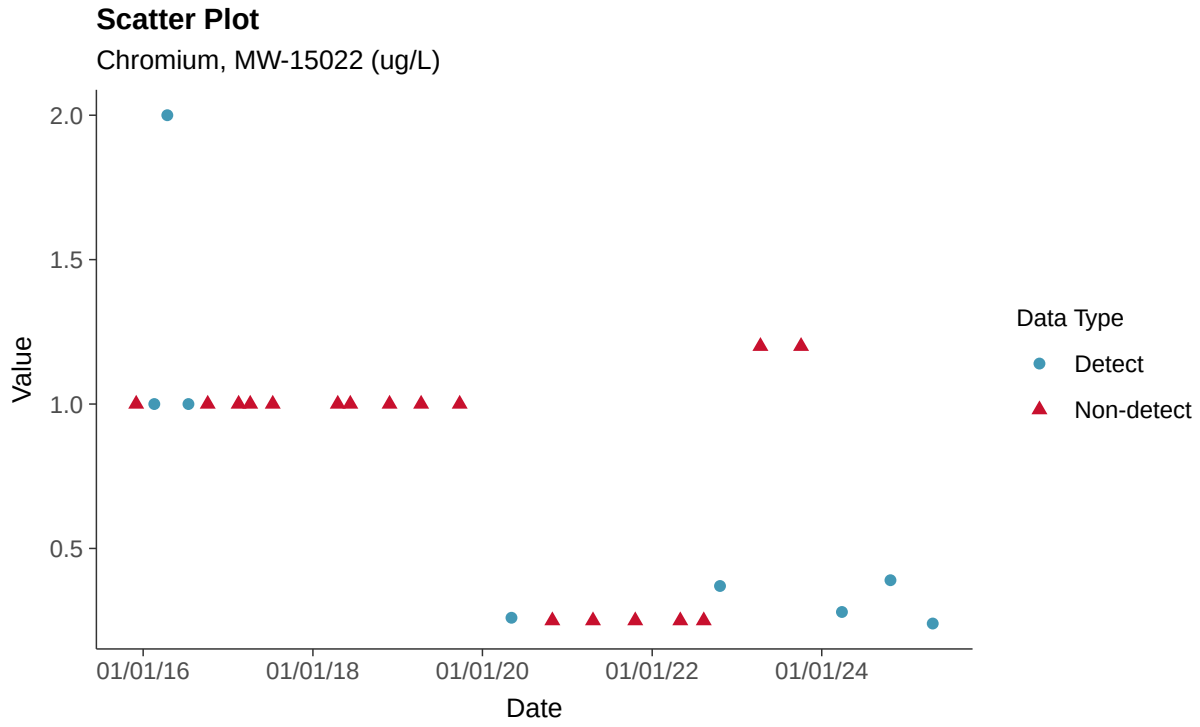
Cadmium, MW-15022 (ug/L)

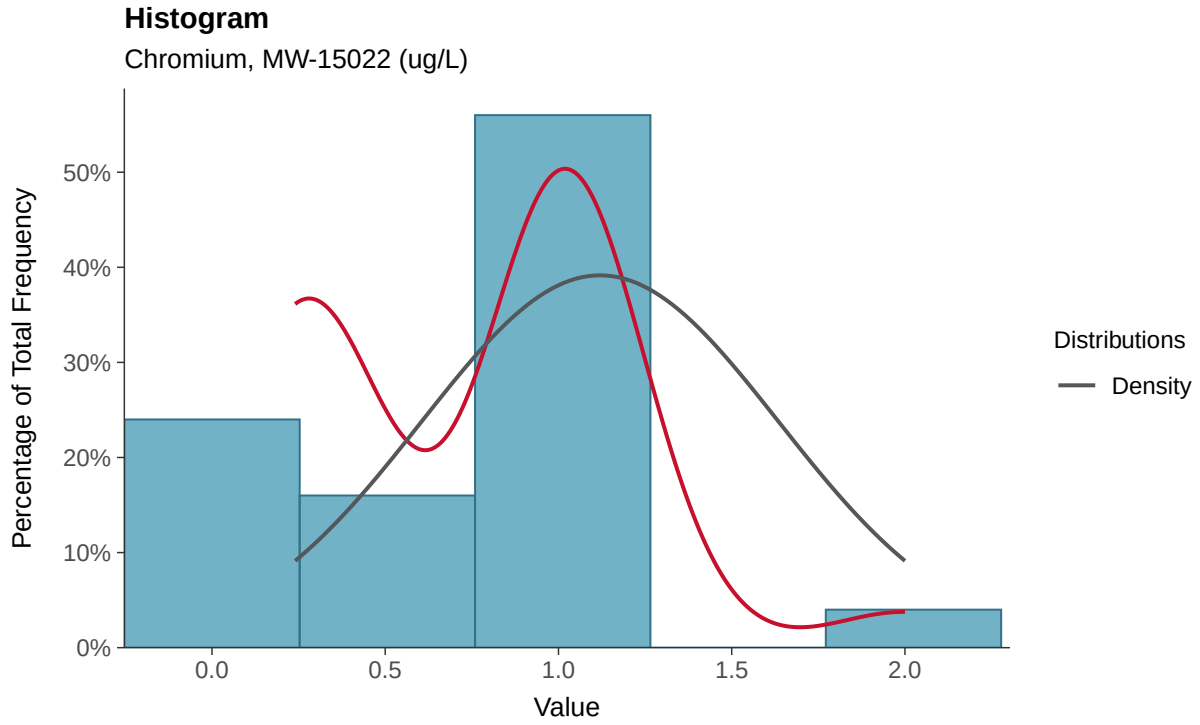



Trend Regression: Piecewise Linear-Linear
Cadmium, MW-15022 (ug/L)
Value
1.25
1.00
0.75
0.50
0.25
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Non-detect

Appendix IV: Chromium, MW-15022

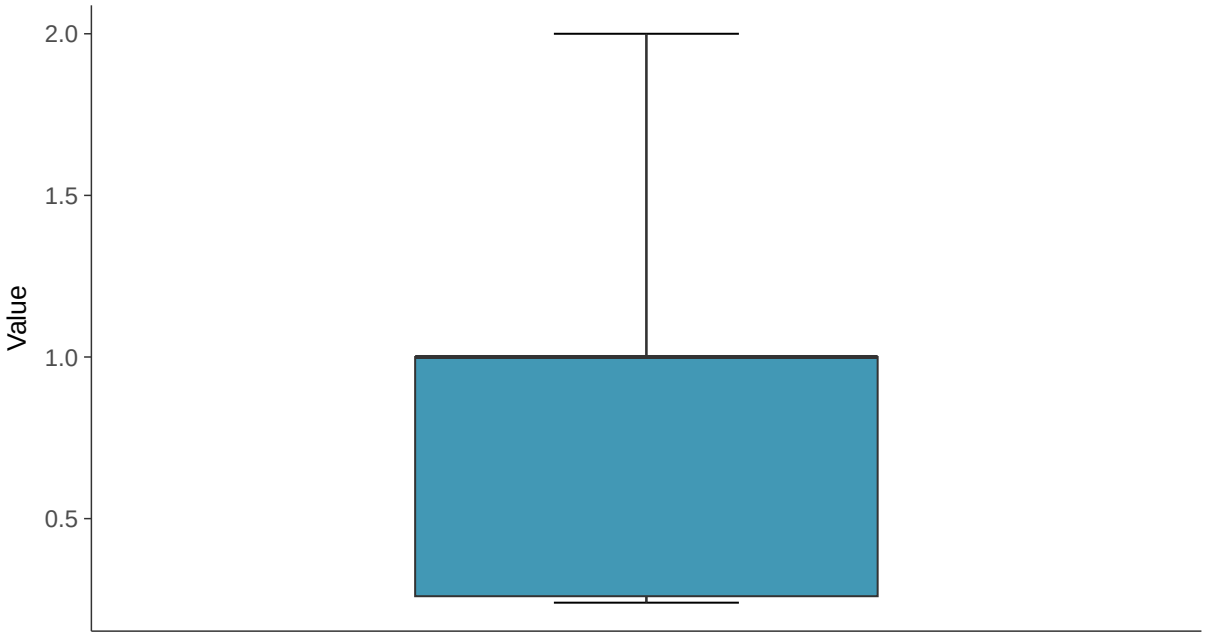
ID: 12_2_109





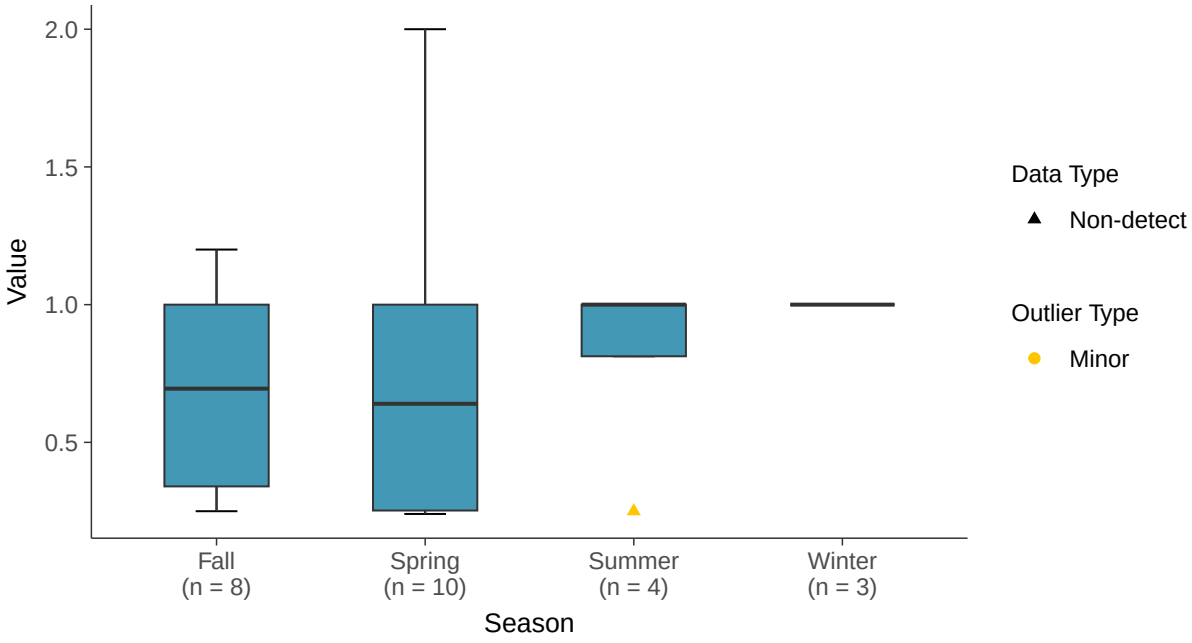
Boxplot

Chromium, MW-15022 (ug/L)



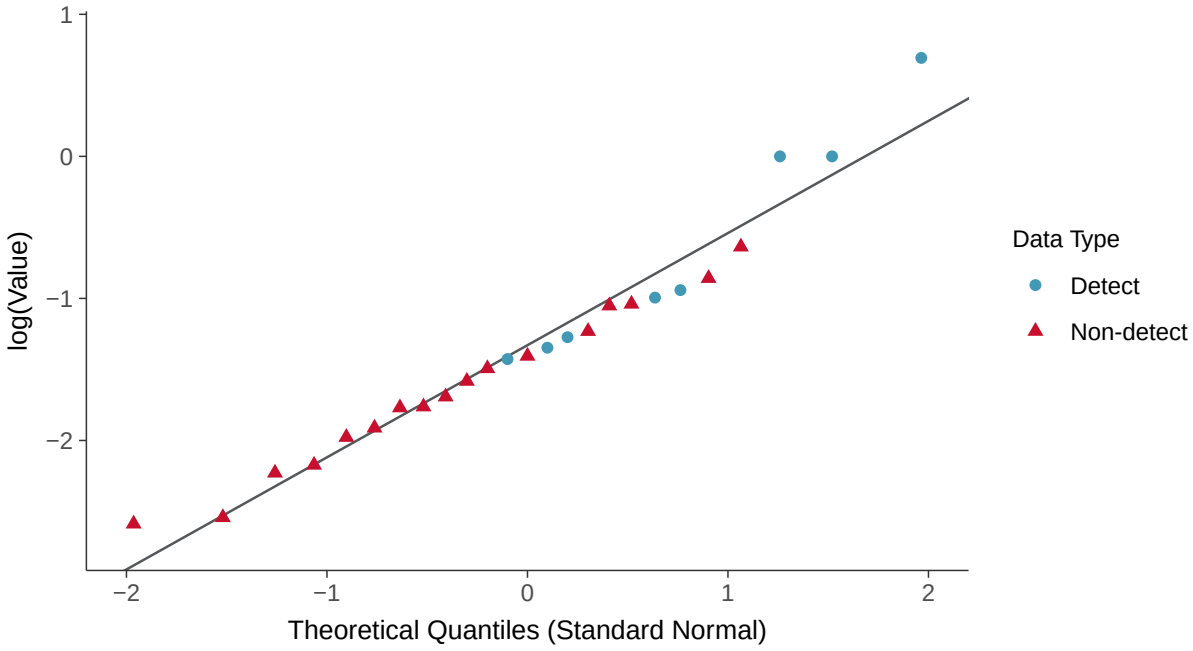
Boxplot by Season

Chromium, MW-15022 (ug/L)



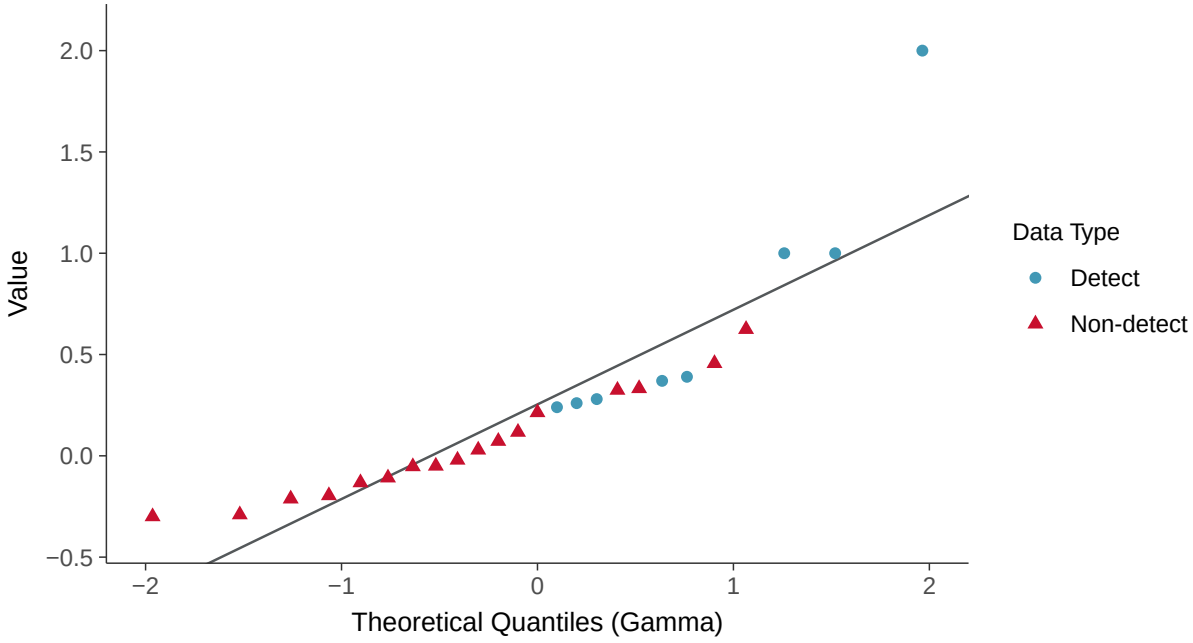
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15022 (ug/L)



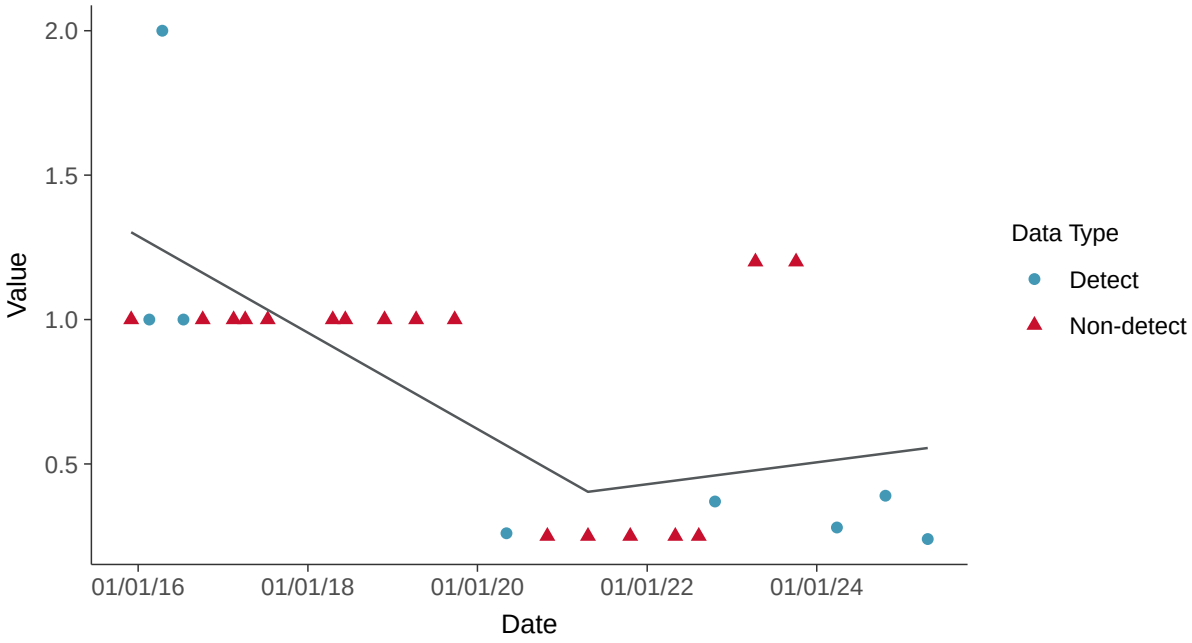
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, MW-15022 (ug/L)



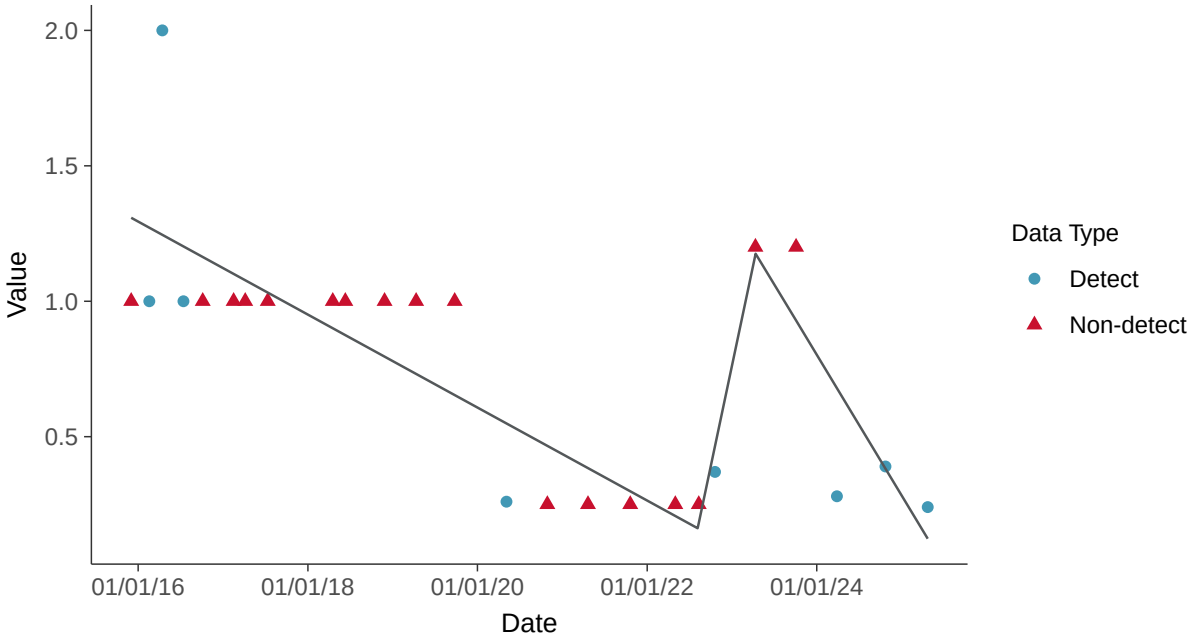
Trend Regression: Piecewise Linear-Linear

Chromium, MW-15022 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, MW-15022 (ug/L)

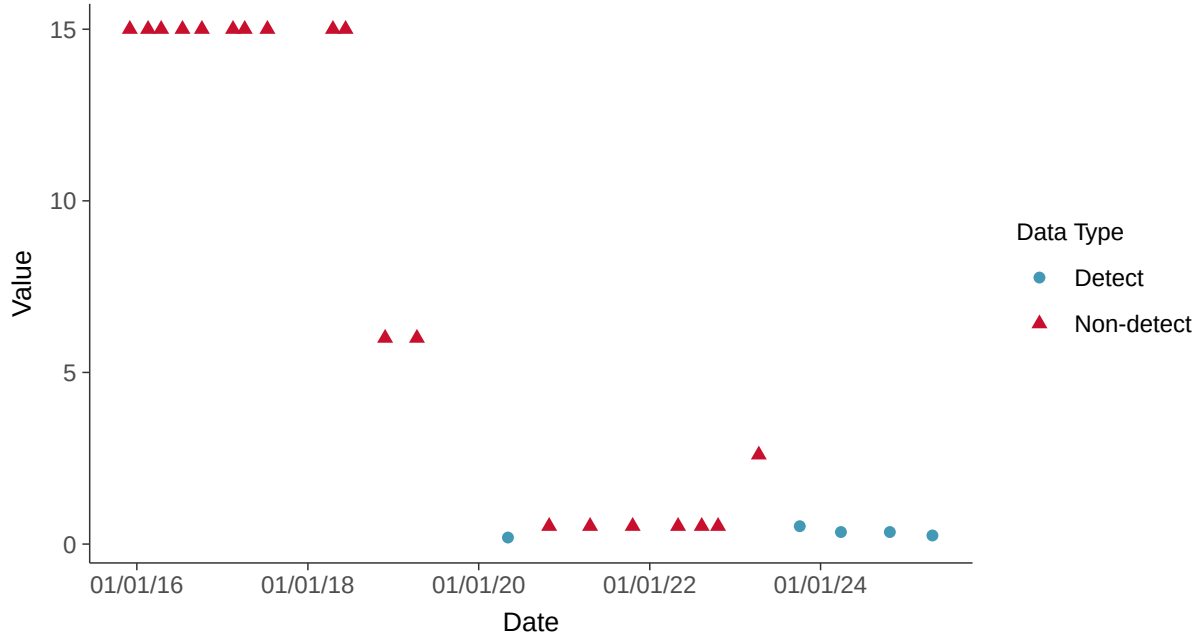


Appendix IV: Cobalt, MW-15022

ID: 12_2_110

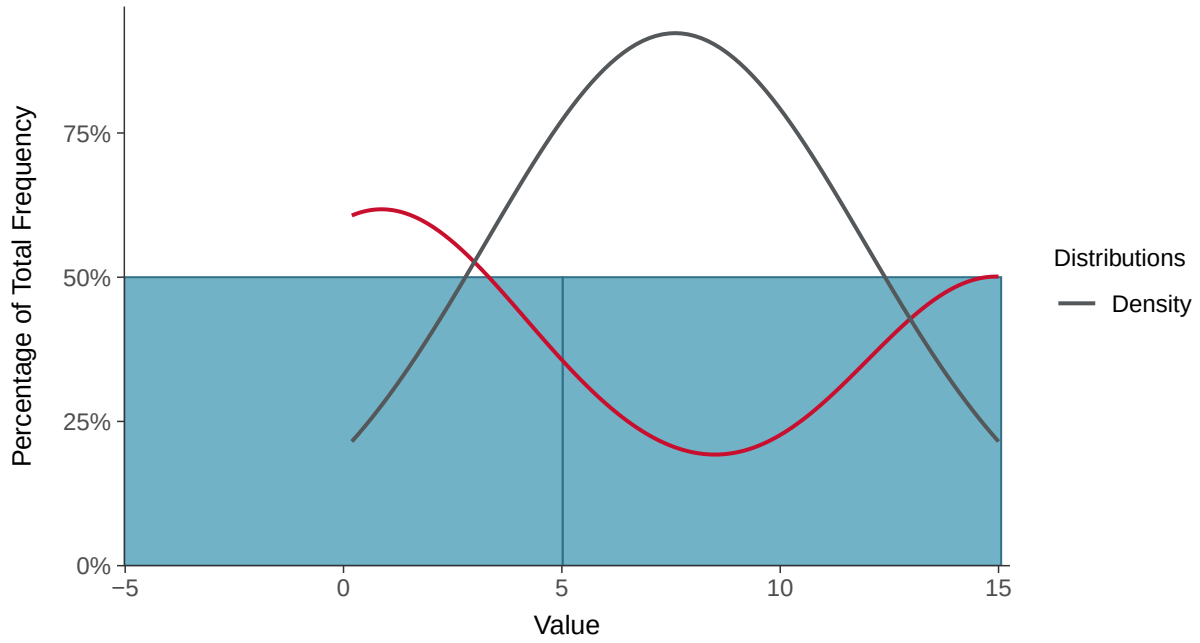
Scatter Plot

Cobalt, MW-15022 (ug/L)



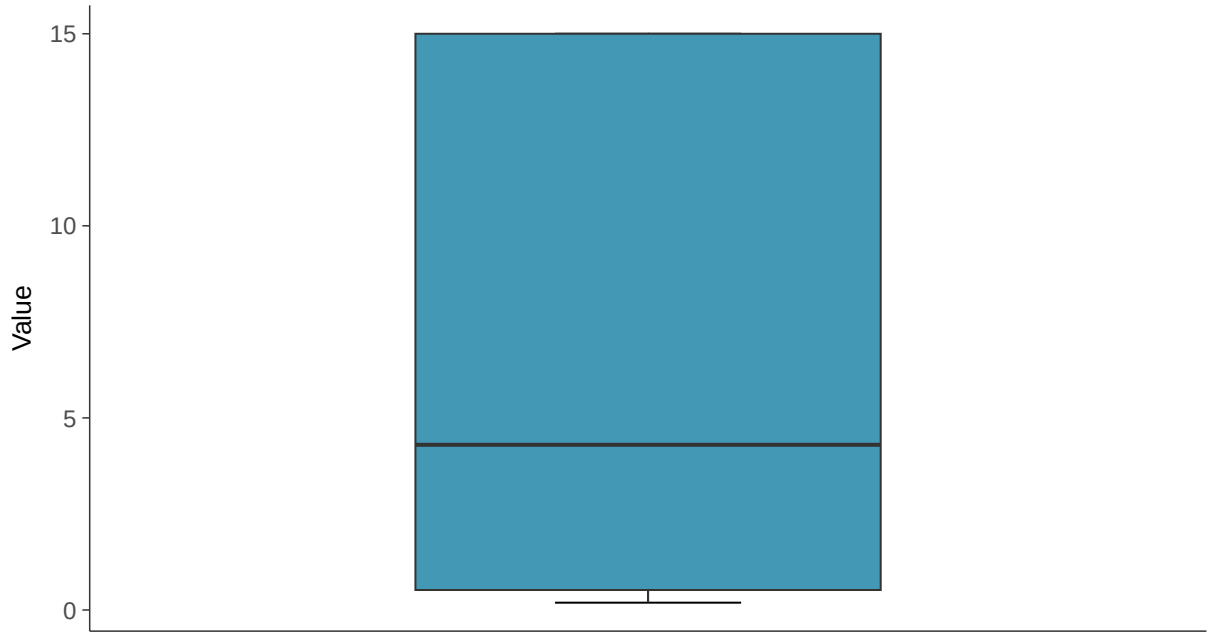
Histogram

Cobalt, MW-15022 (ug/L)



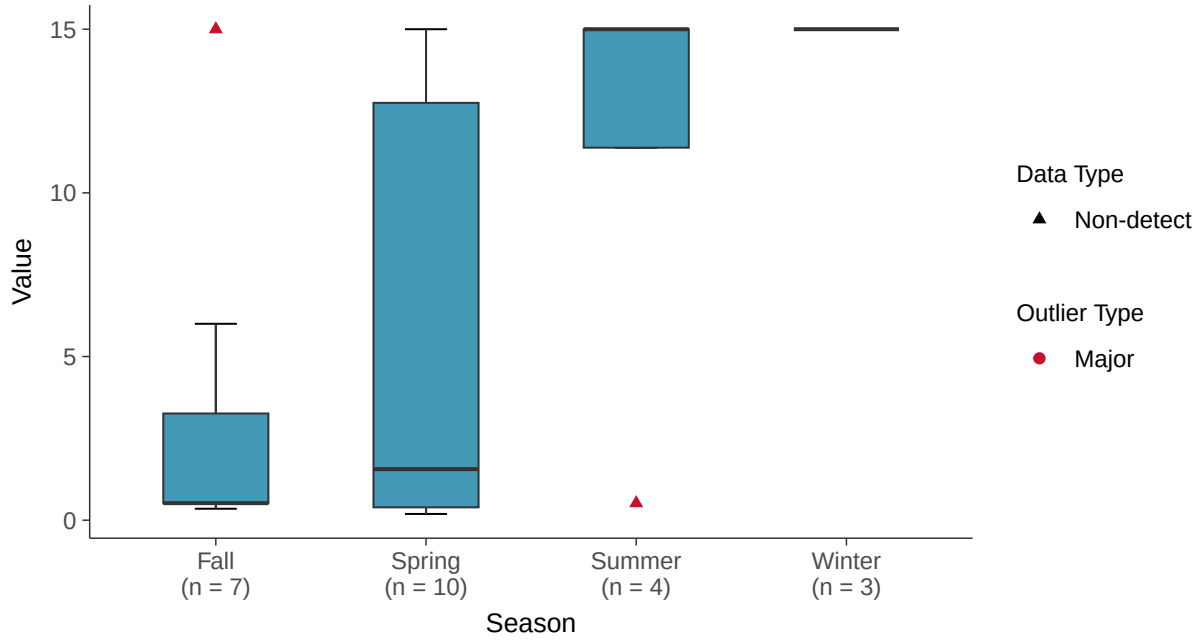
Boxplot

Cobalt, MW-15022 (ug/L)



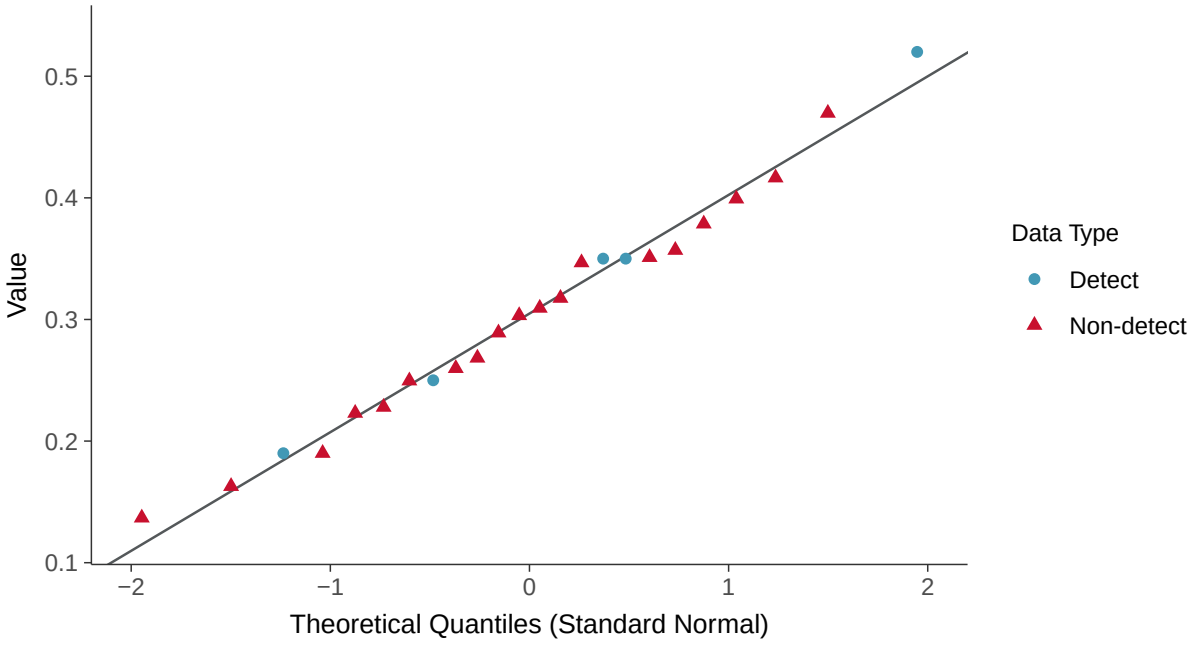
Boxplot by Season

Cobalt, MW-15022 (ug/L)



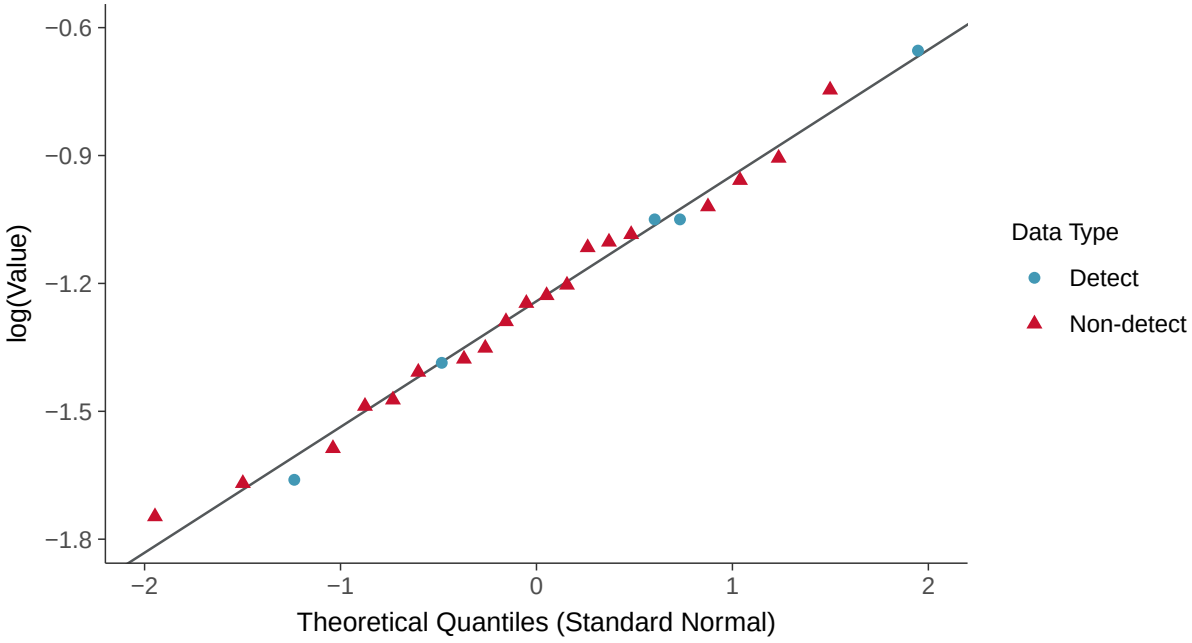
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15022 (ug/L)



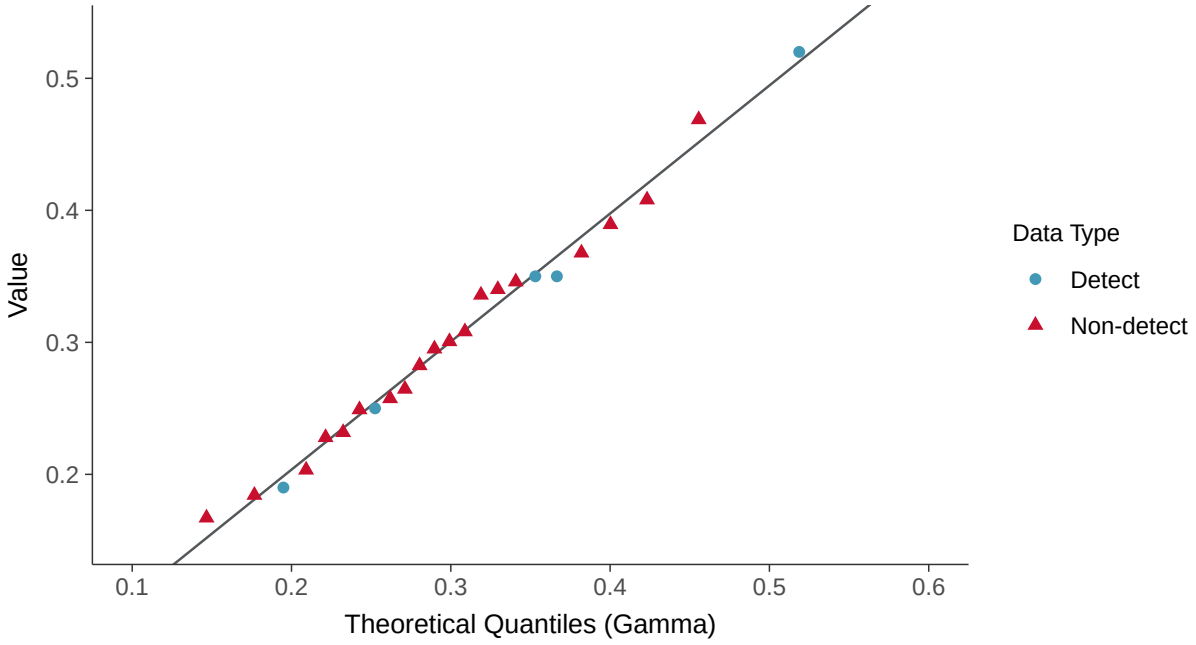
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15022 (ug/L)



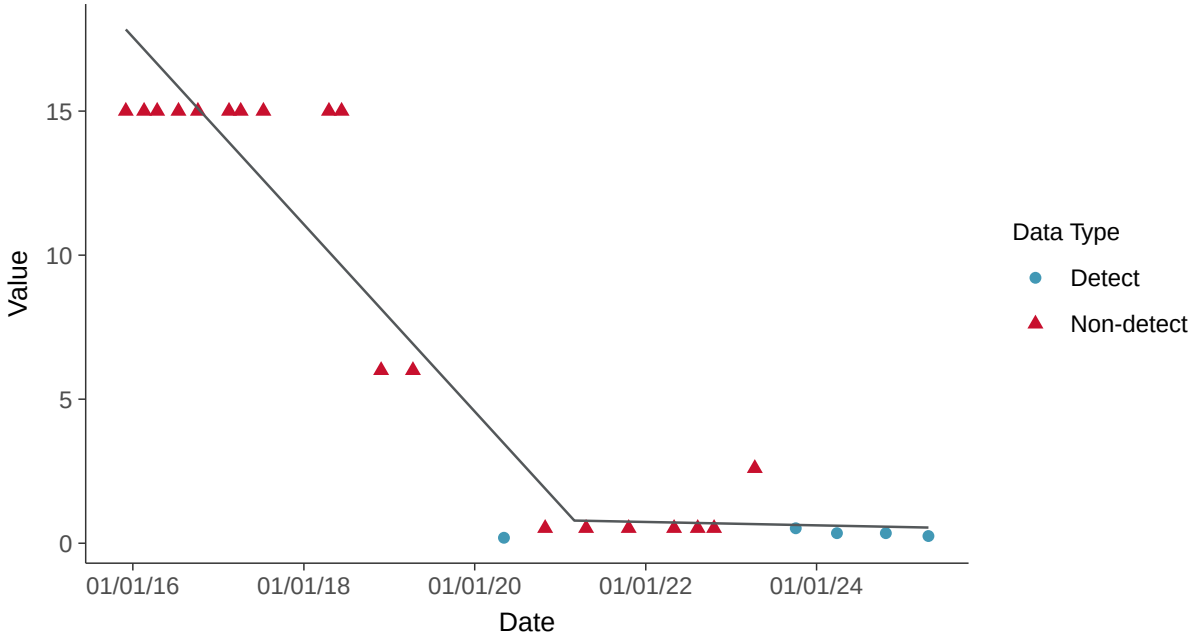
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15022 (ug/L)



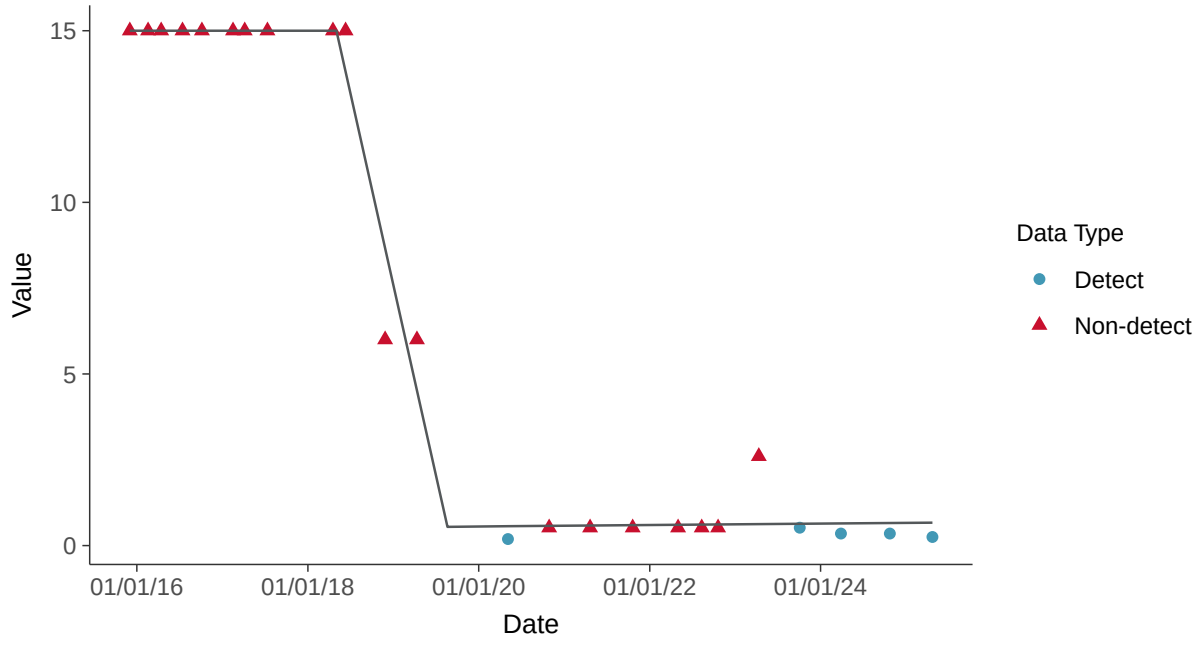
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15022 (ug/L)



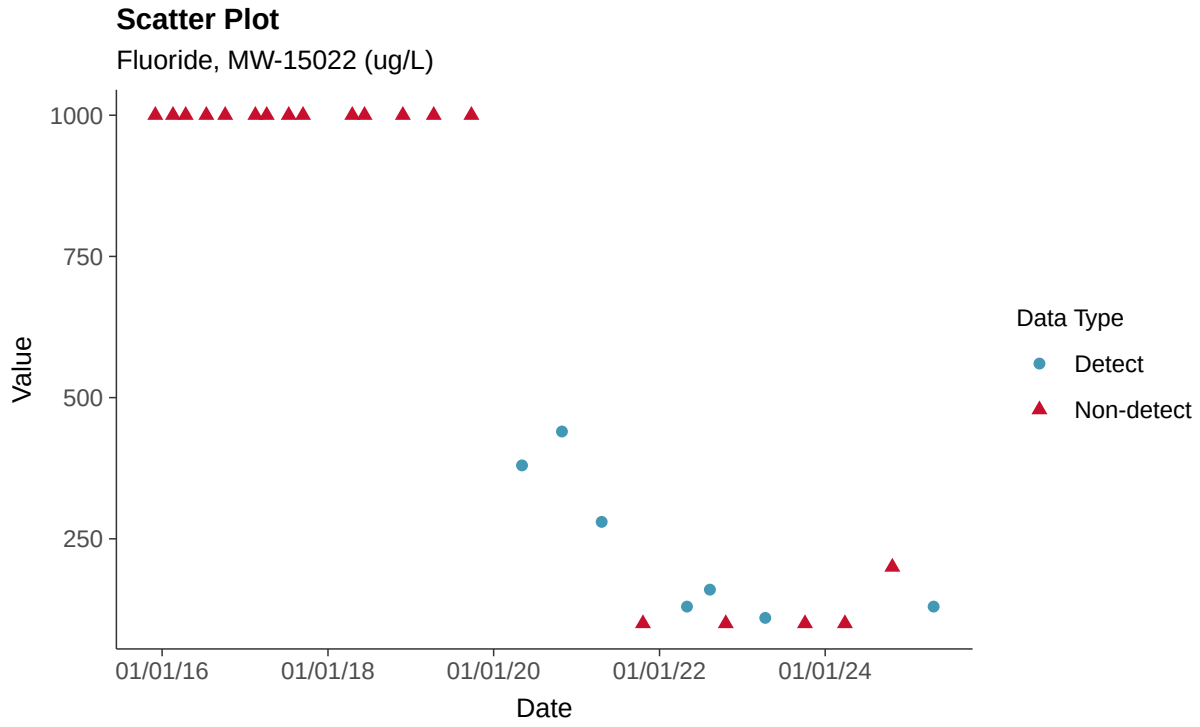
Trend Regression: Piecewise Linear-Linear-Linear

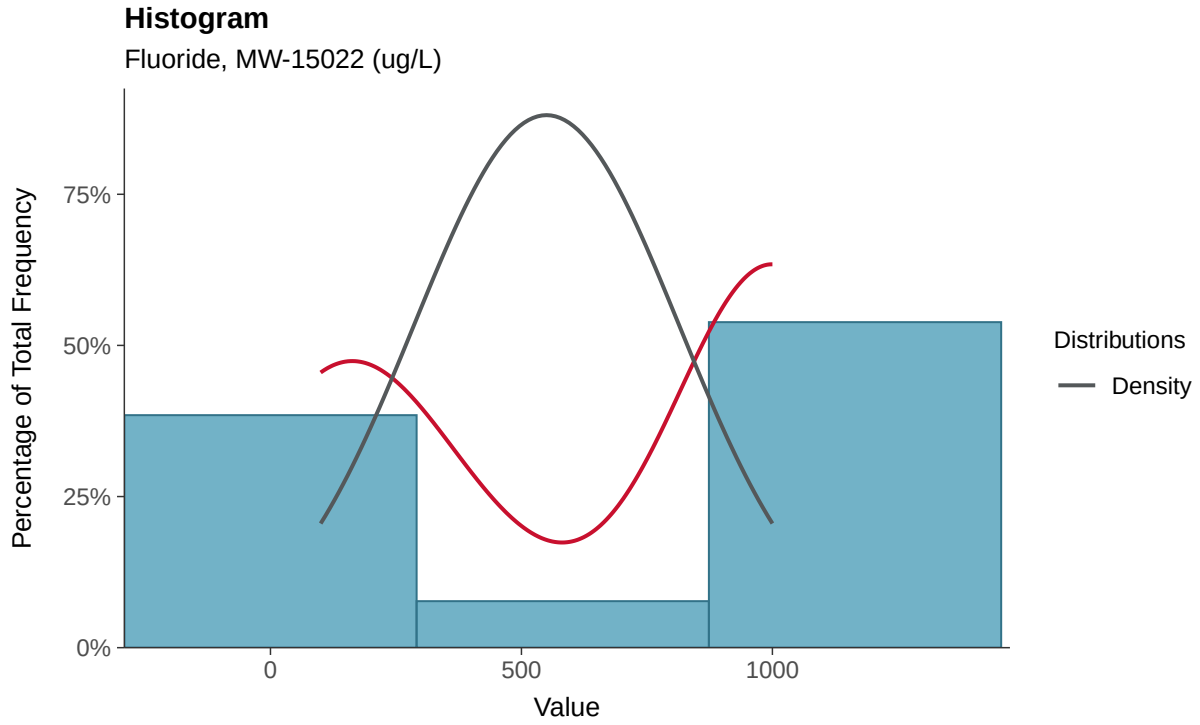
Cobalt, MW-15022 (ug/L)



Appendix IV: Fluoride, MW-15022

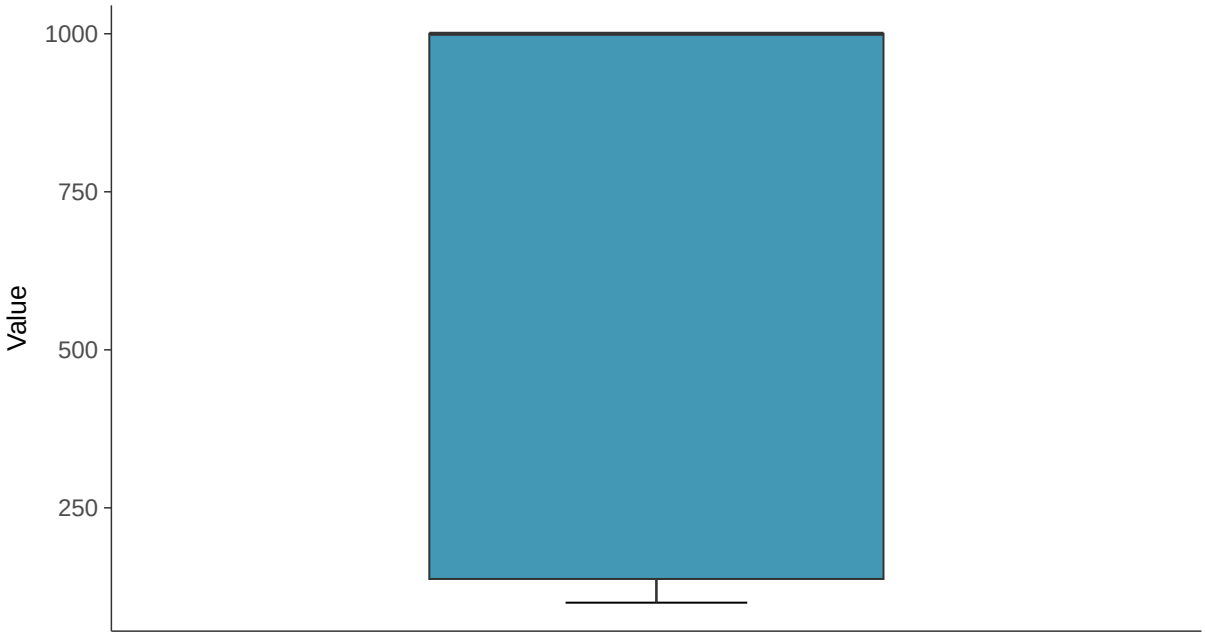
ID: 12_2_114





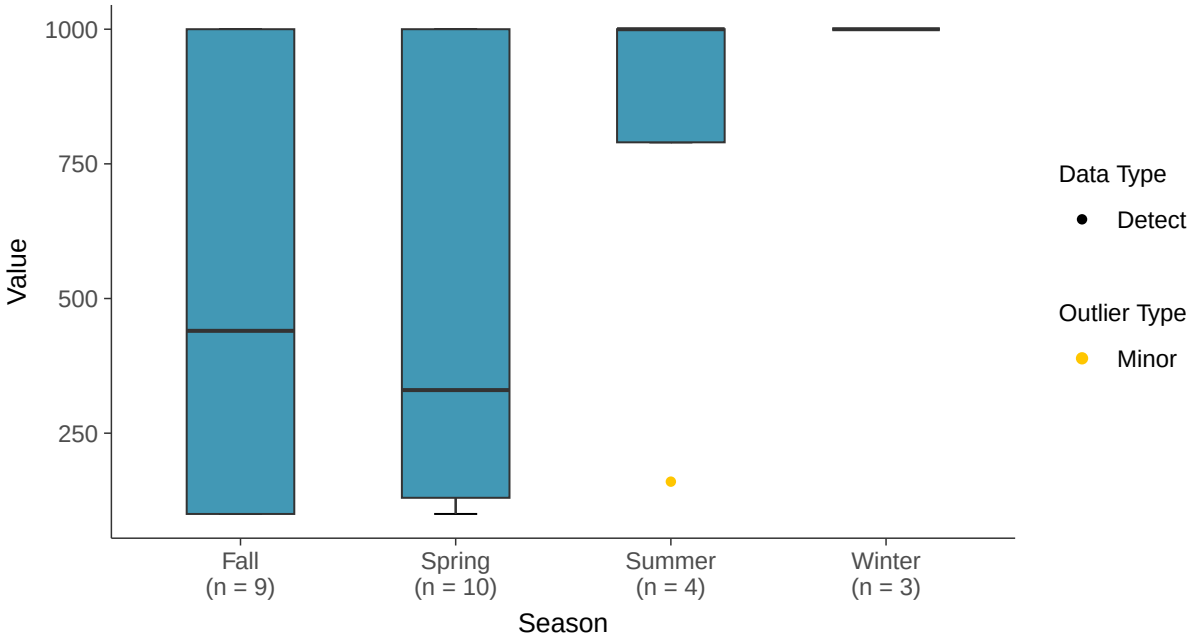
Boxplot

Fluoride, MW-15022 (ug/L)



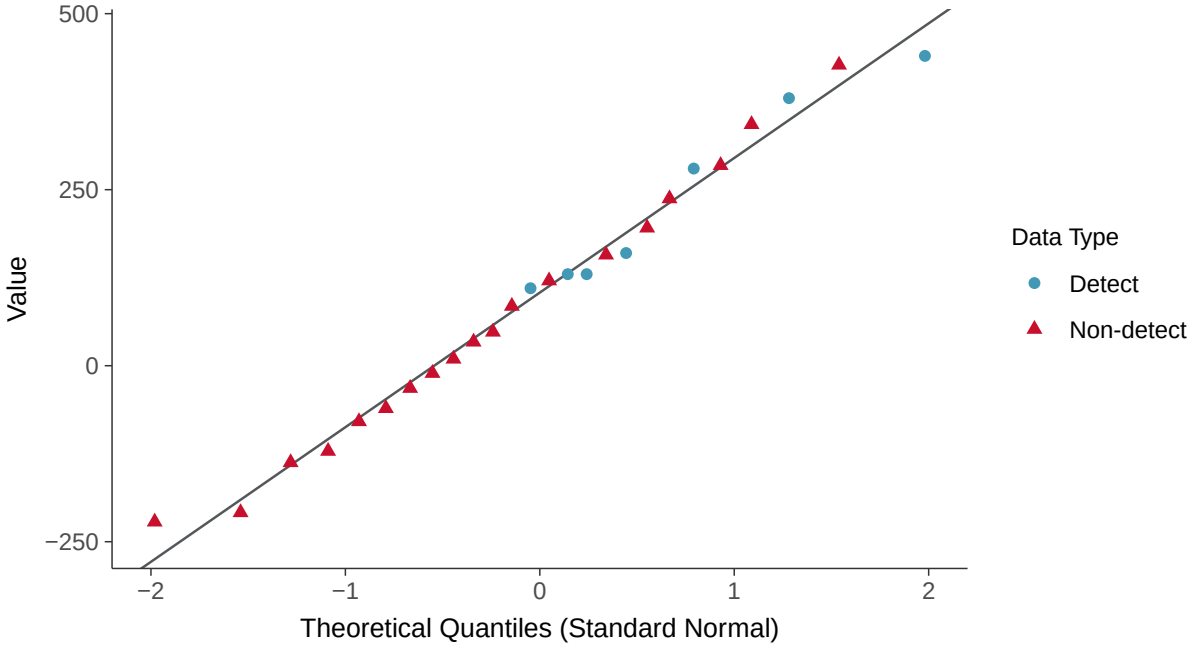
Boxplot by Season

Fluoride, MW-15022 (ug/L)



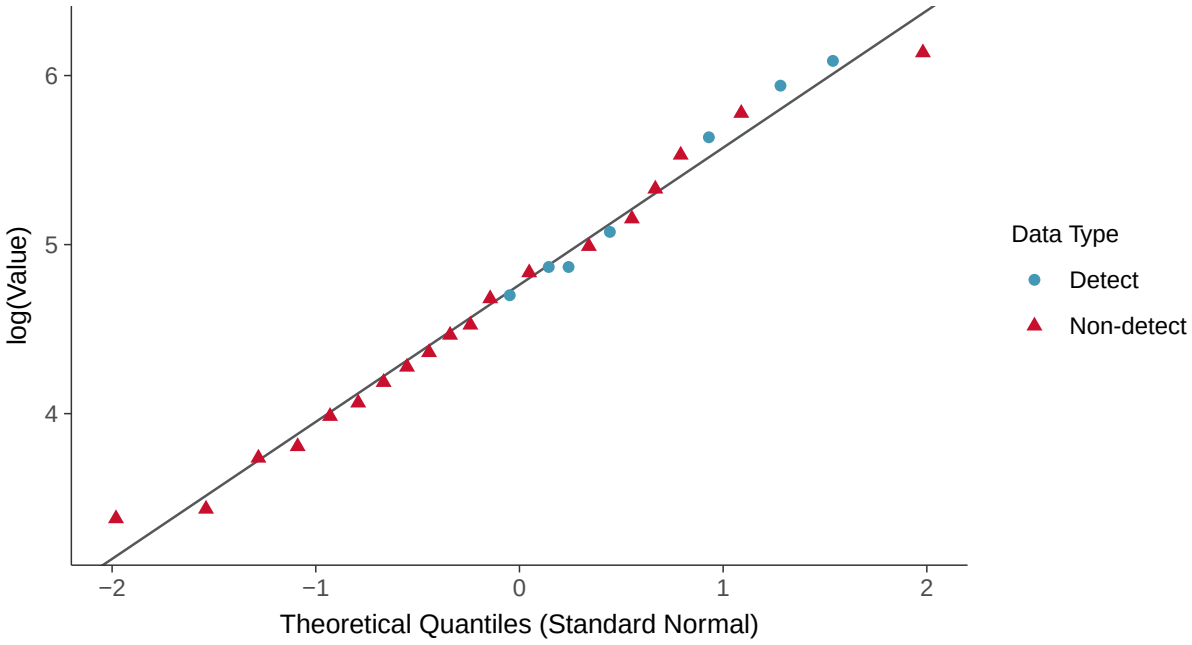
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15022 (ug/L)



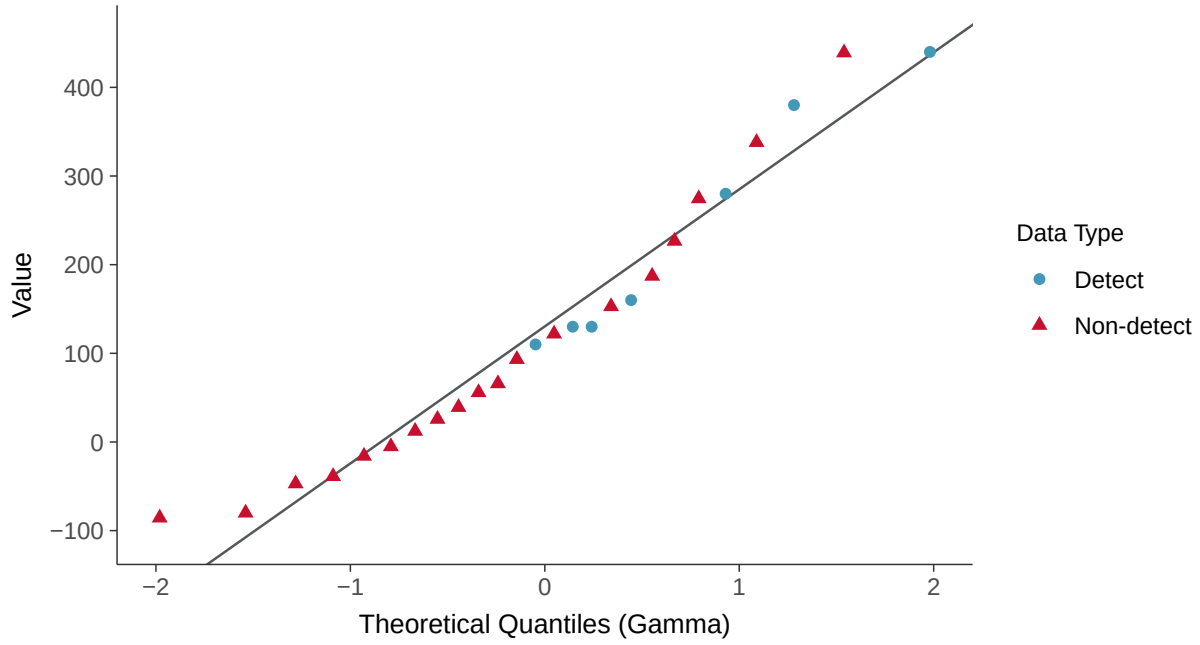
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15022 (ug/L)



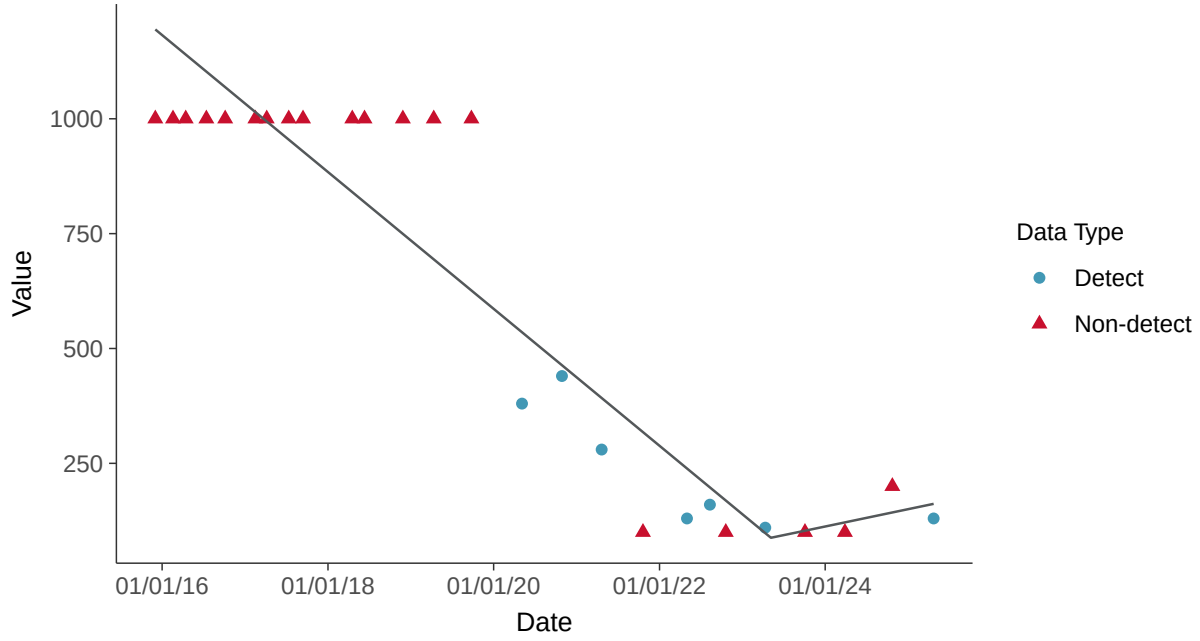
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15022 (ug/L)



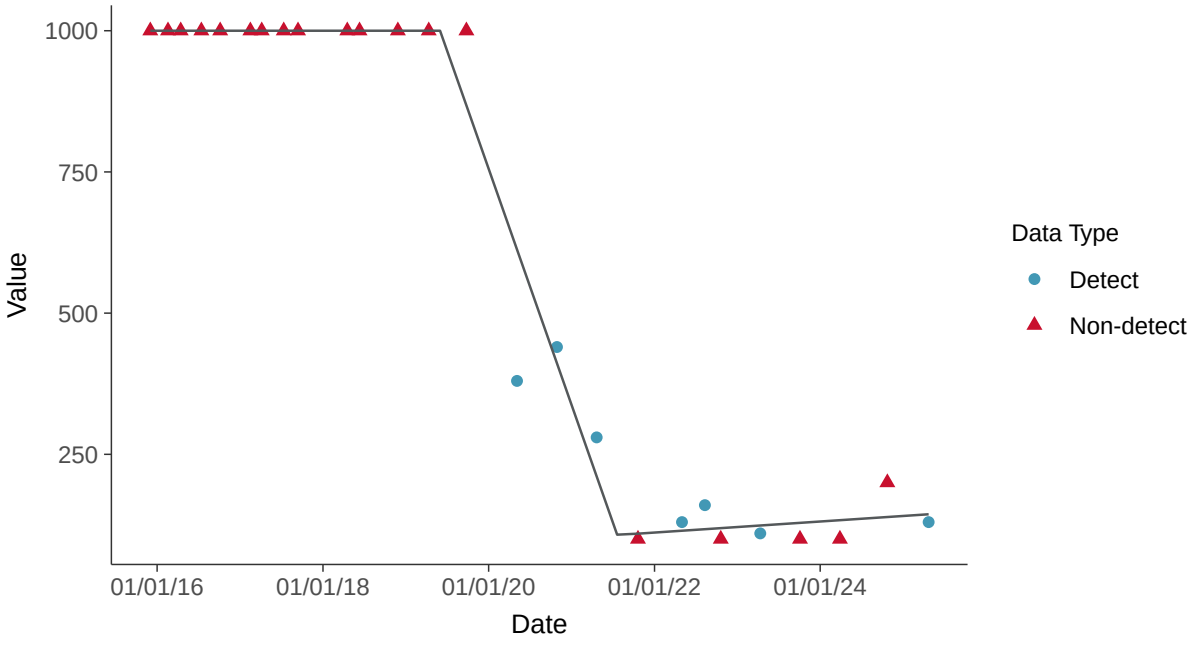
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-15022 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-15022 (ug/L)

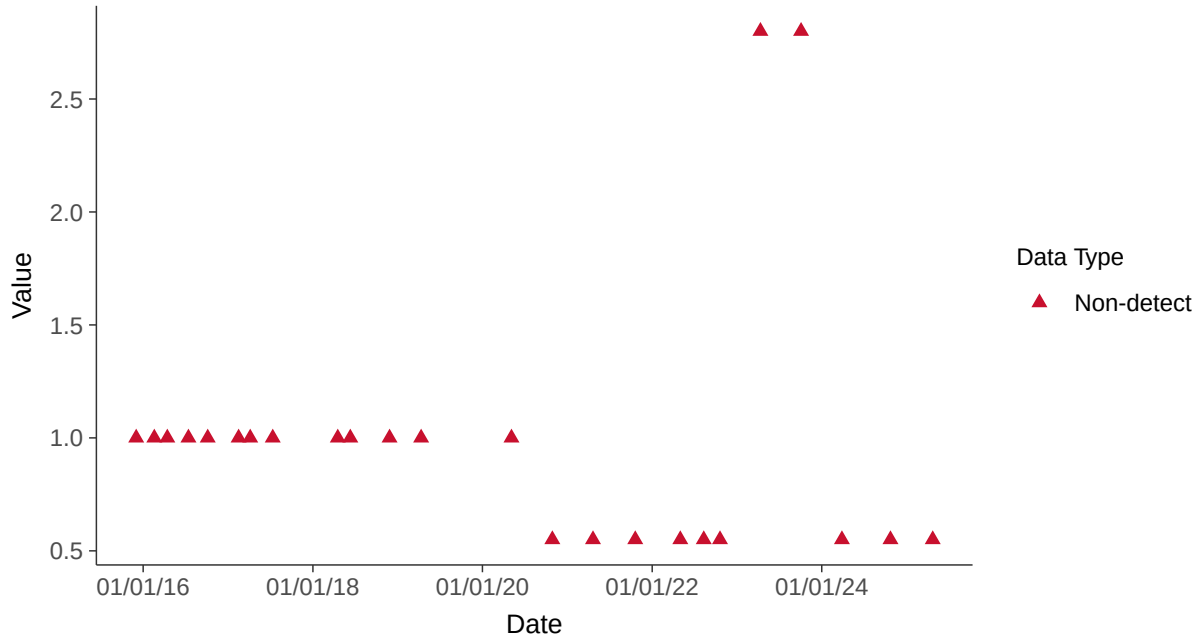


Appendix IV: Lead, MW-15022

ID: 12_2_116

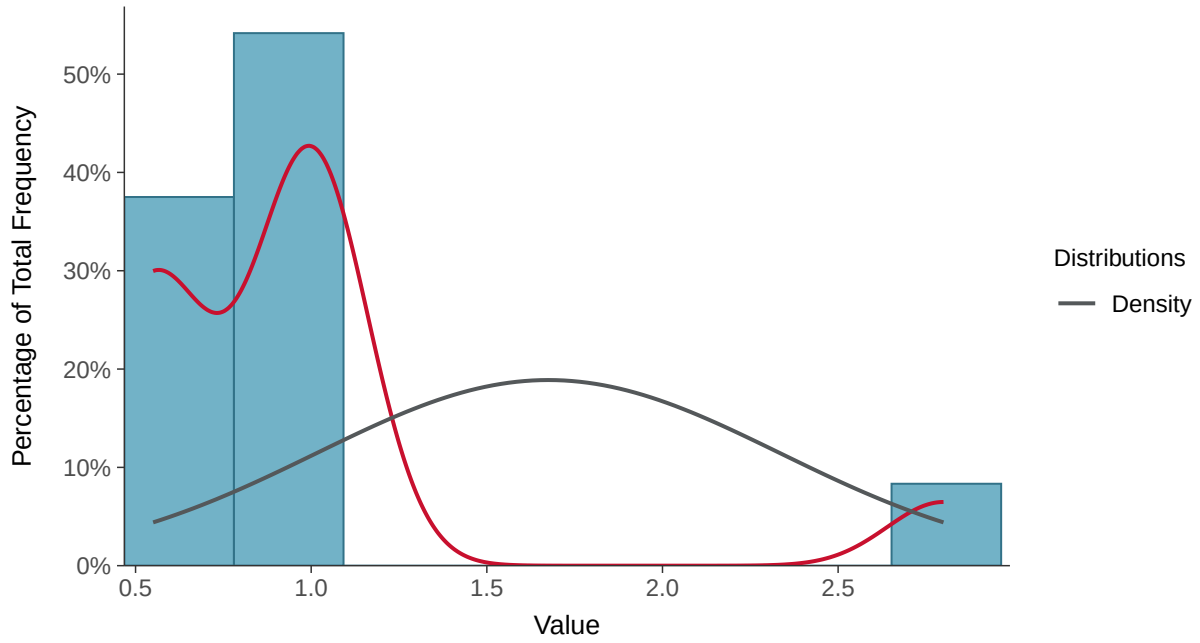
Scatter Plot

Lead, MW-15022 (ug/L)



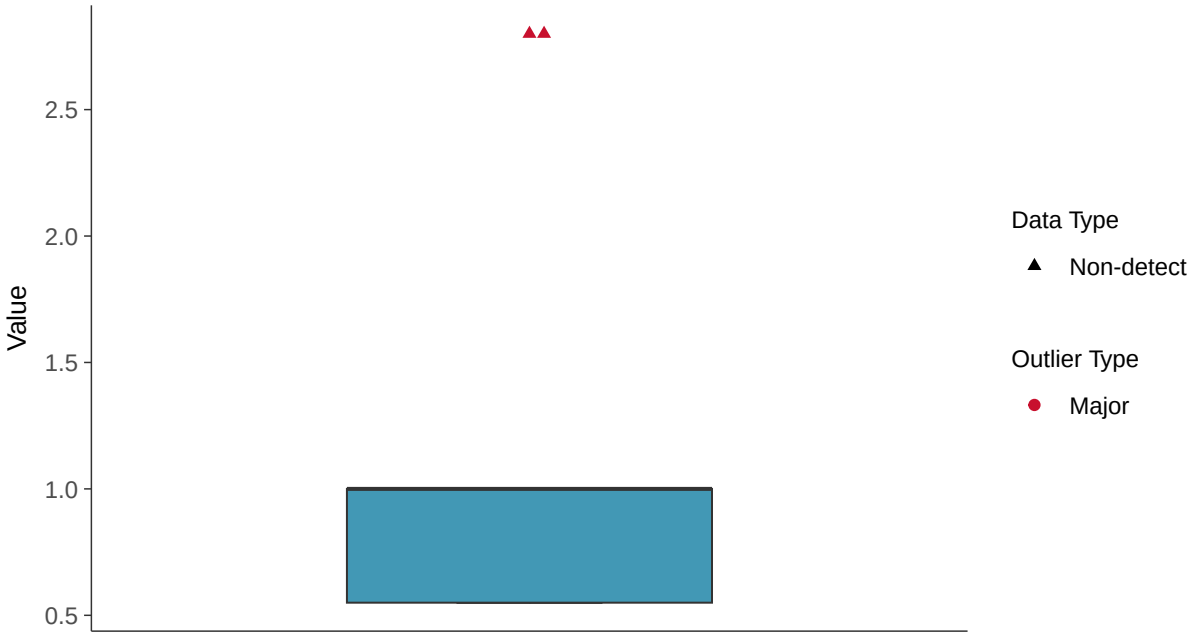
Histogram

Lead, MW-15022 (ug/L)



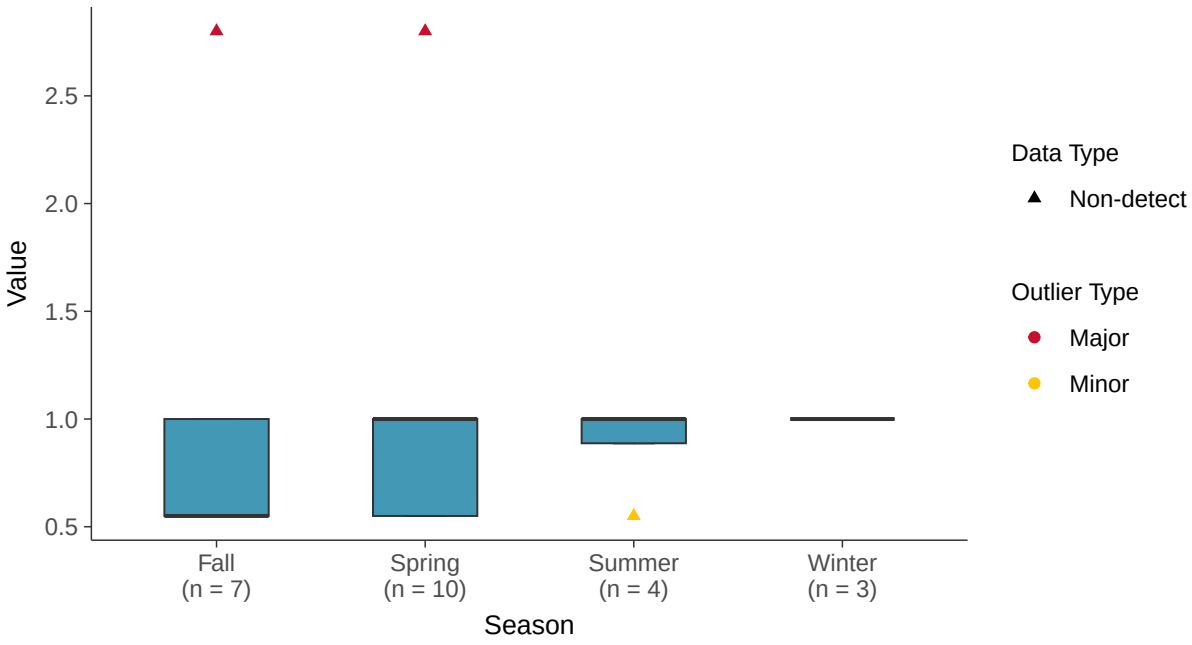
Boxplot

Lead, MW-15022 (ug/L)



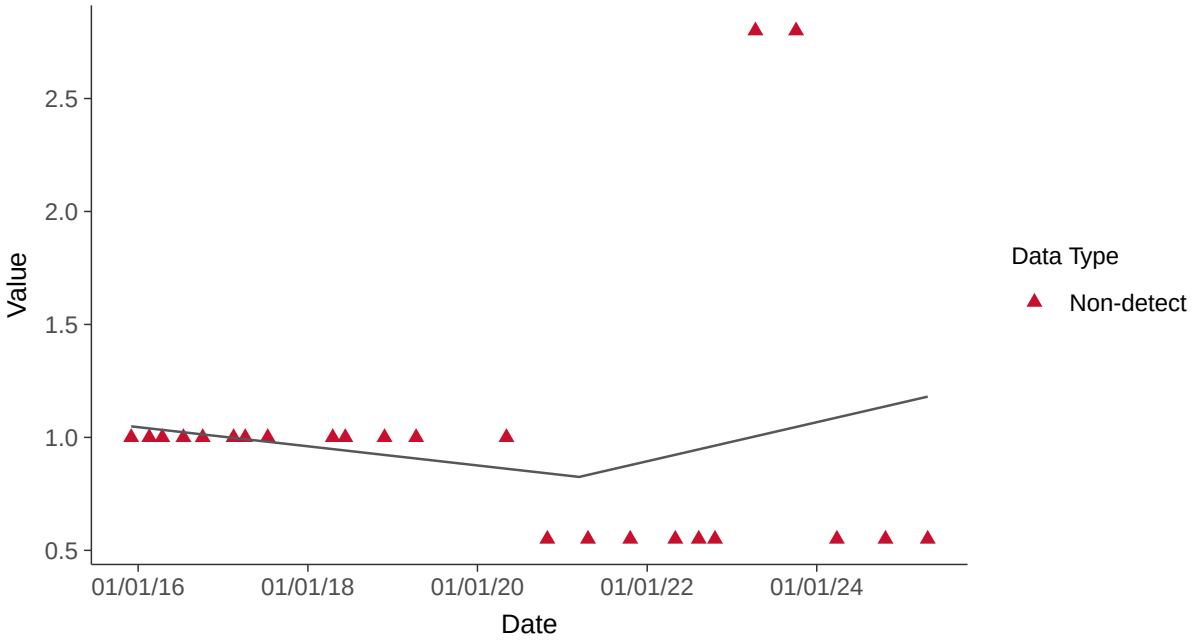
Boxplot by Season

Lead, MW-15022 (ug/L)



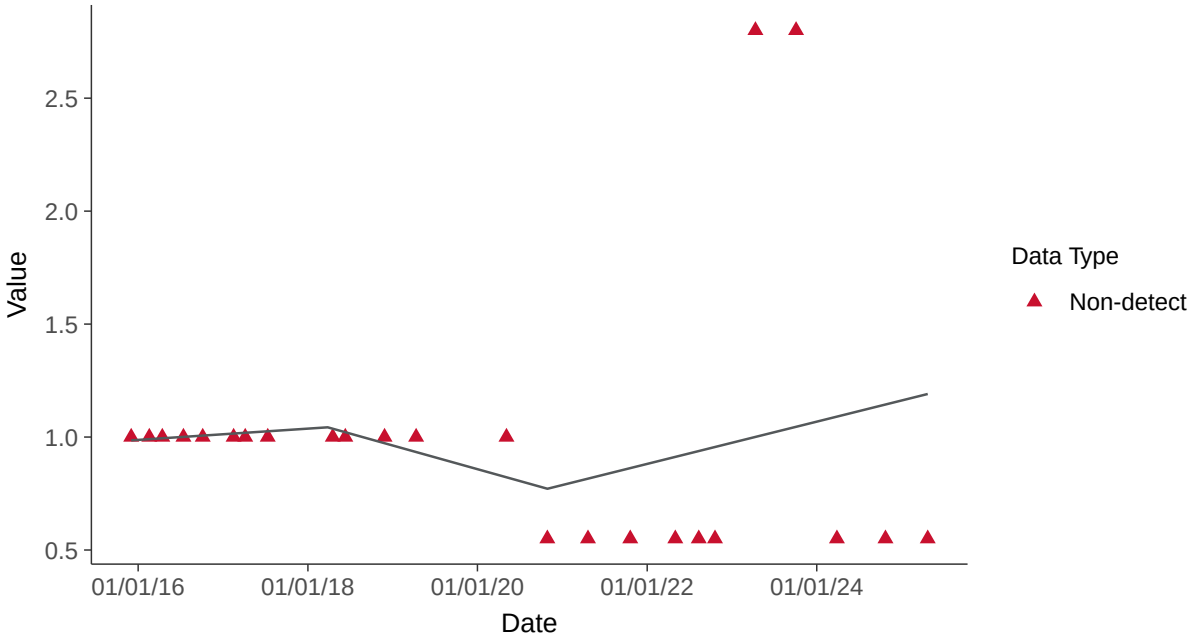
Trend Regression: Piecewise Linear-Linear

Lead, MW-15022 (ug/L)



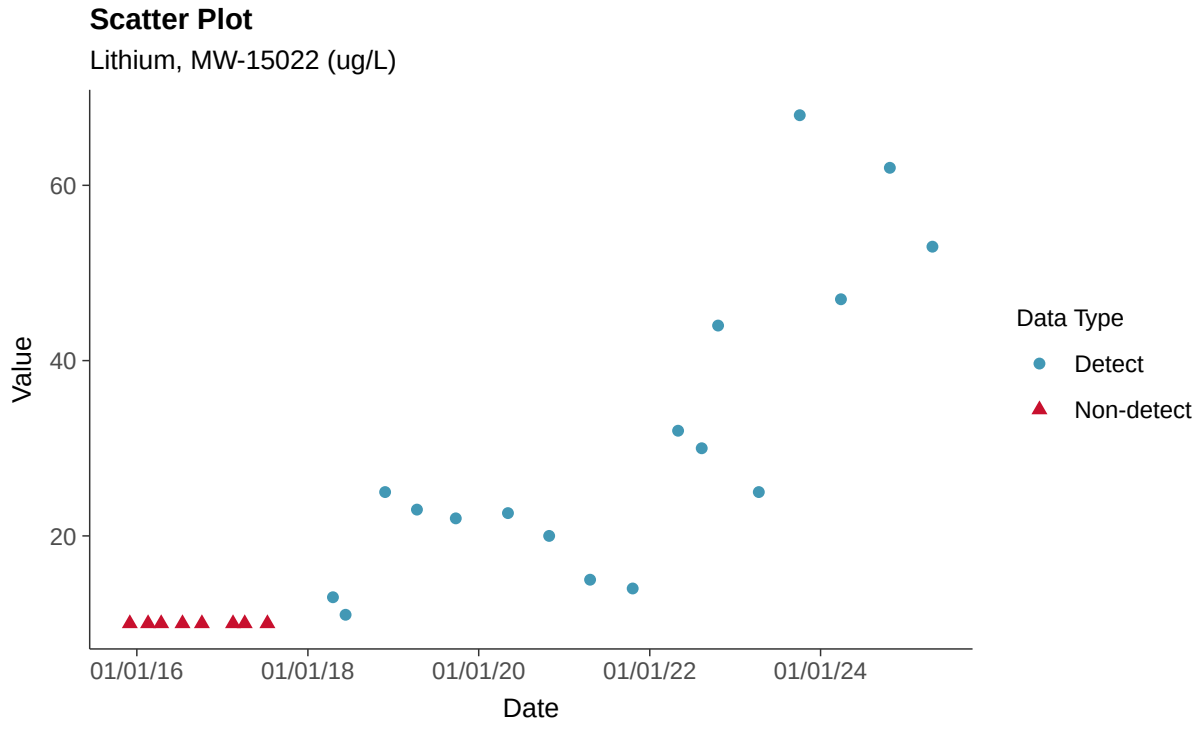
Trend Regression: Piecewise Linear-Linear-Linear

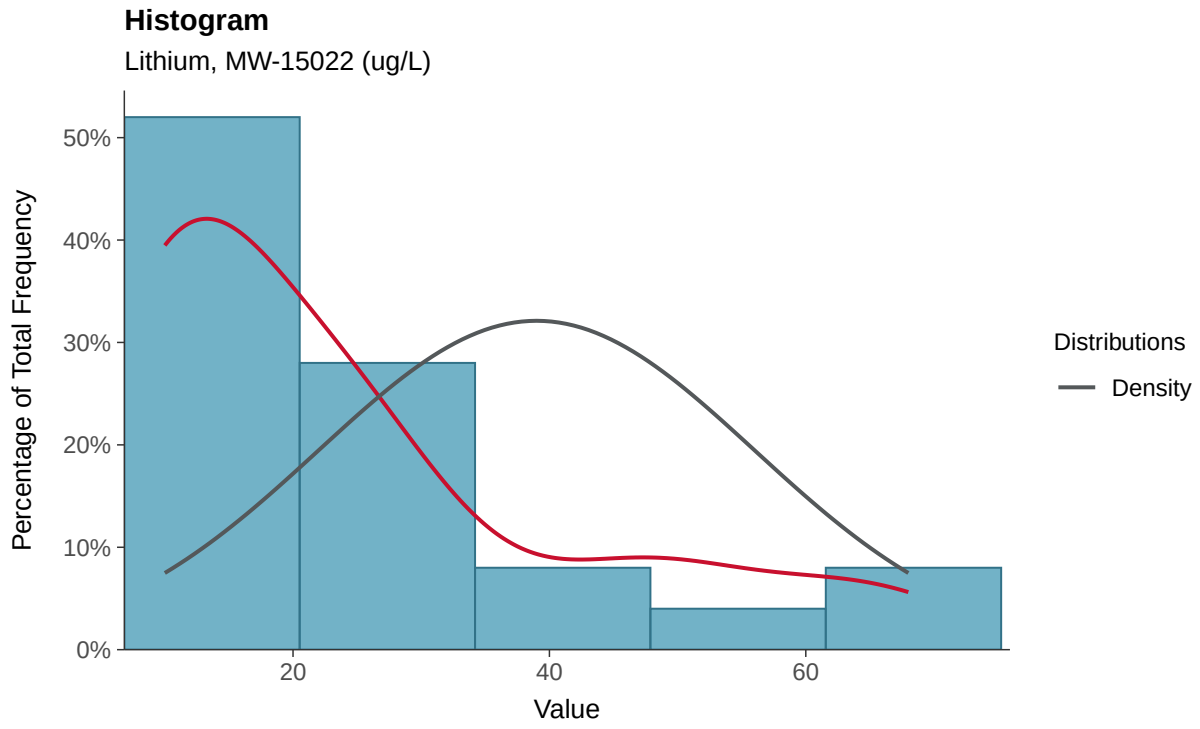
Lead, MW-15022 (ug/L)



Appendix IV: Lithium, MW-15022

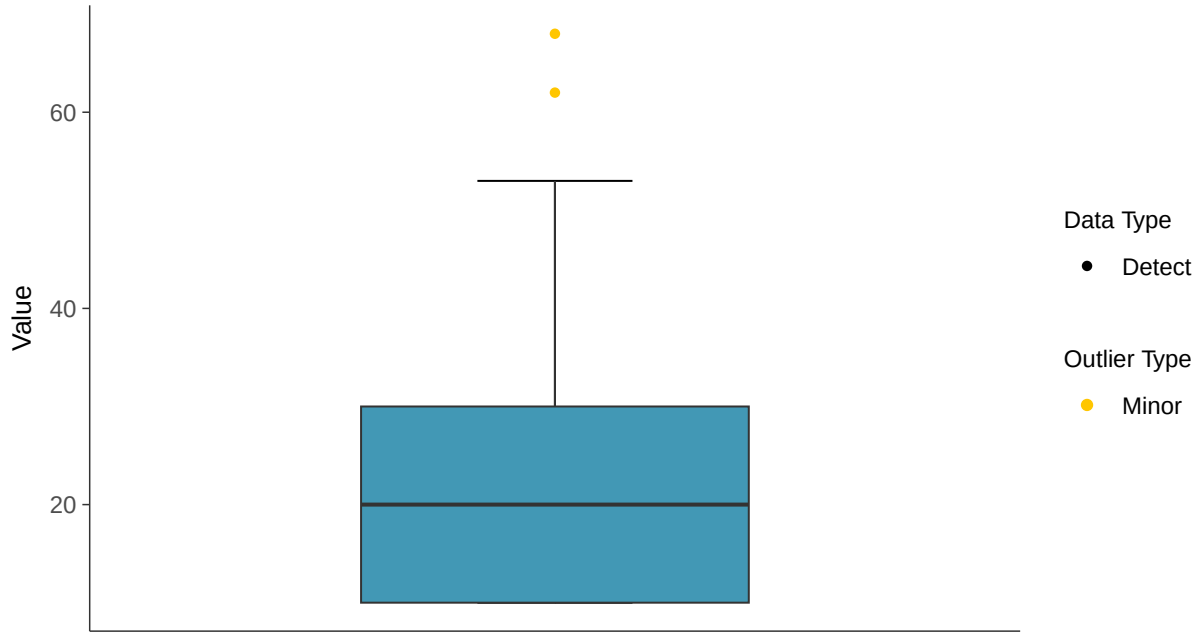
ID: 12_2_117





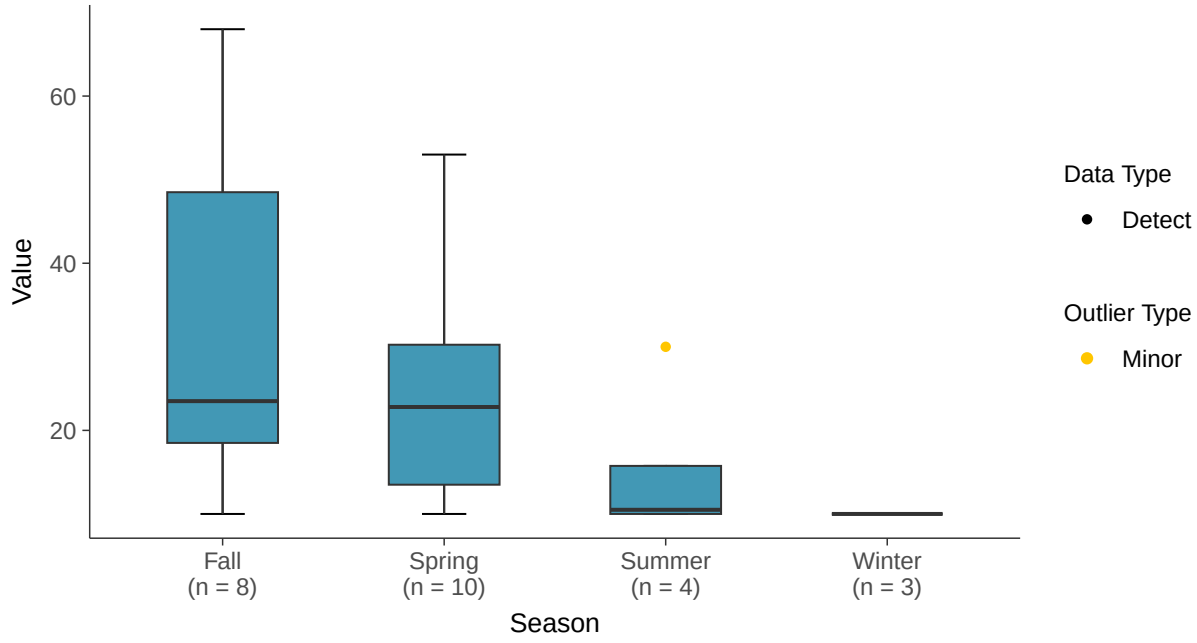
Boxplot

Lithium, MW-15022 (ug/L)



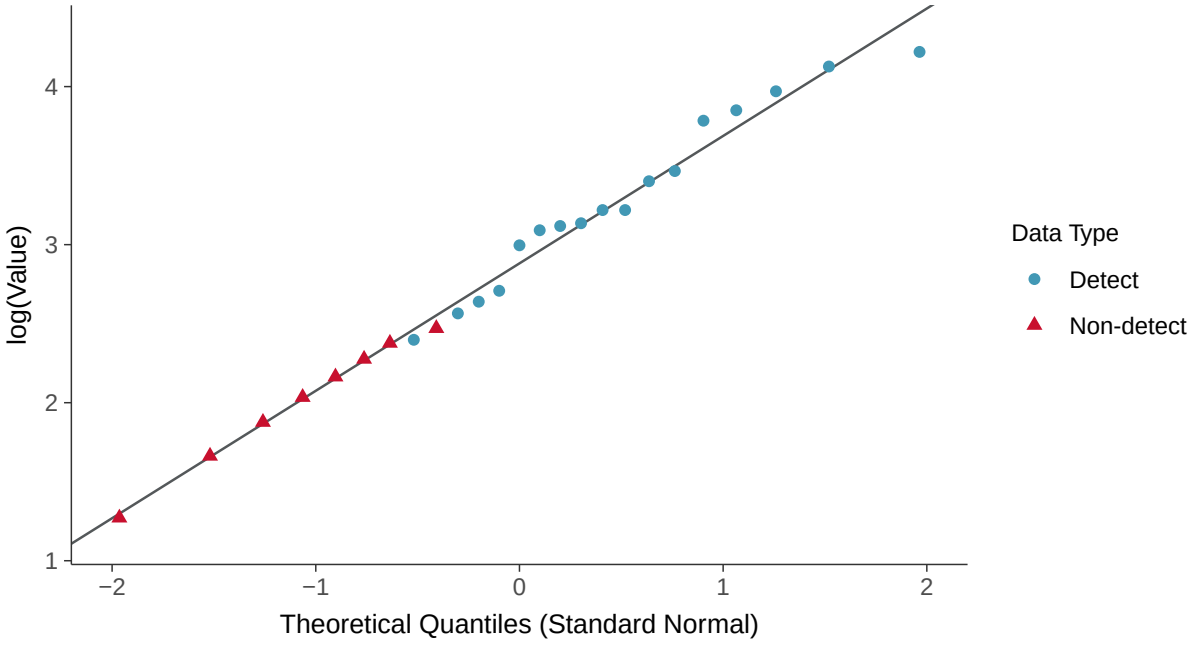
Boxplot by Season

Lithium, MW-15022 (ug/L)



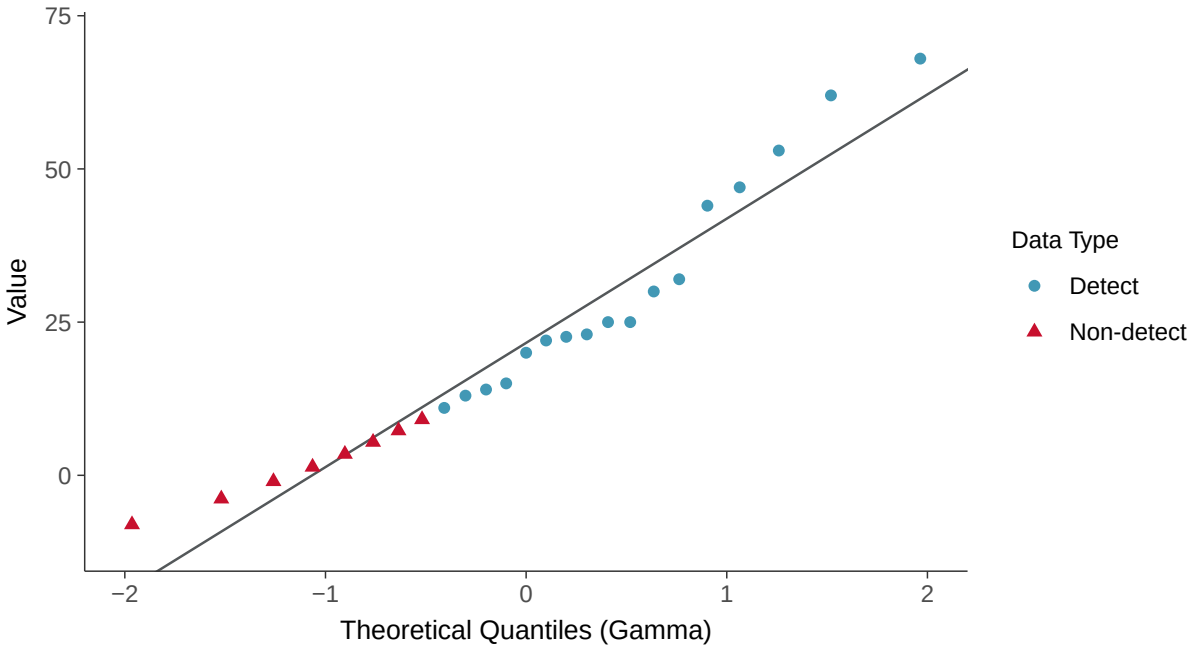
Lognormal Q-Q plot using ROS Imputed Estimates

Lithium, MW-15022 (ug/L)



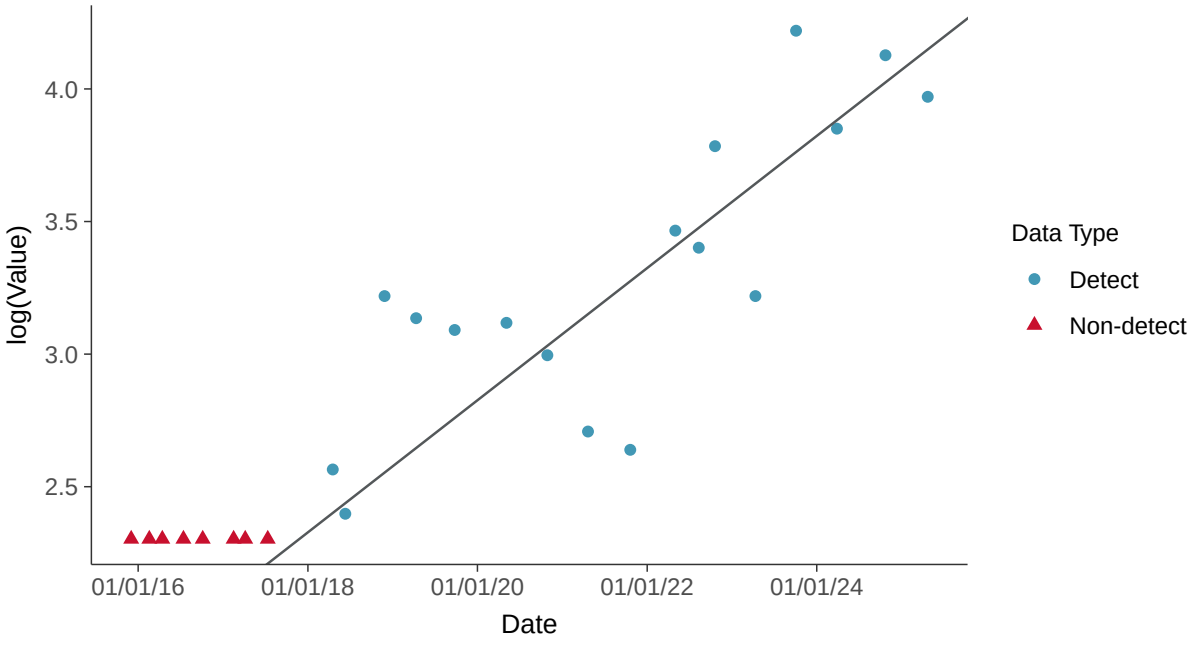
Gamma Q-Q plot using ROS Imputed Estimates

Lithium, MW-15022 (ug/L)



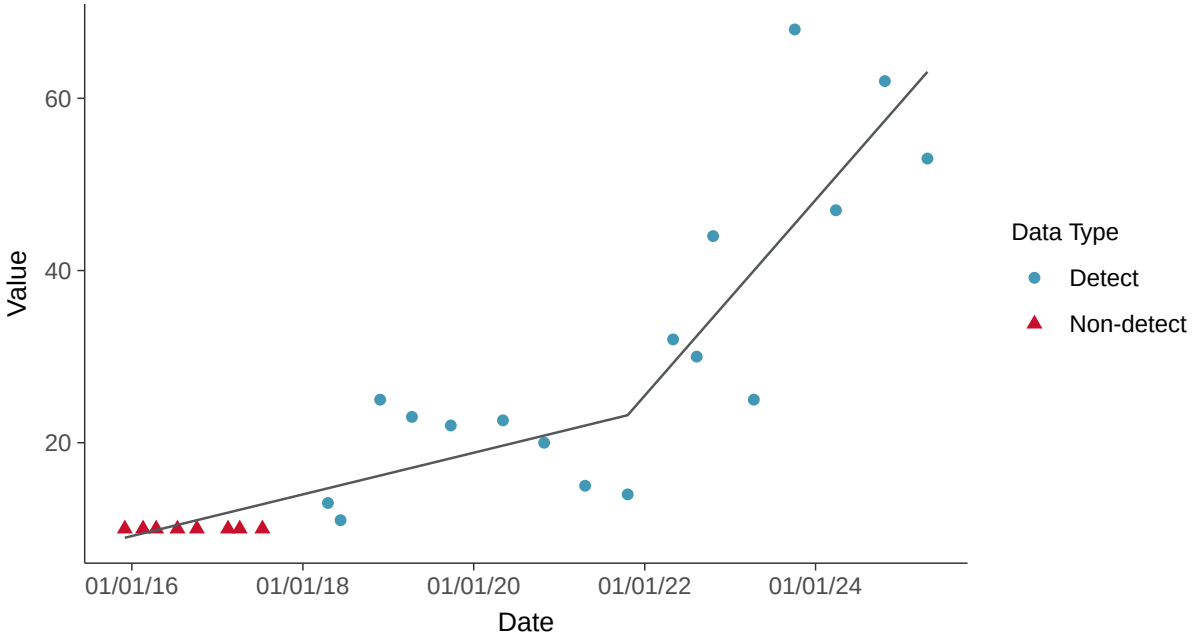
Trend Regression: Lognormal MLE

Lithium, MW-15022 (ug/L)



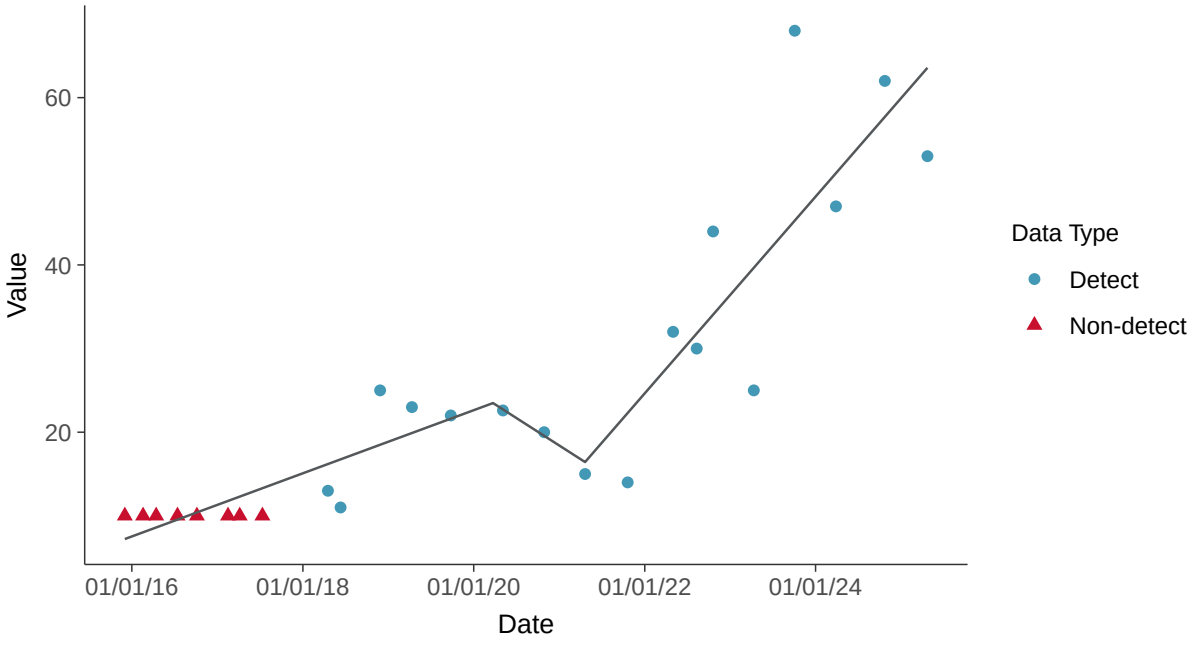
Trend Regression: Piecewise Linear-Linear

Lithium, MW-15022 (ug/L)



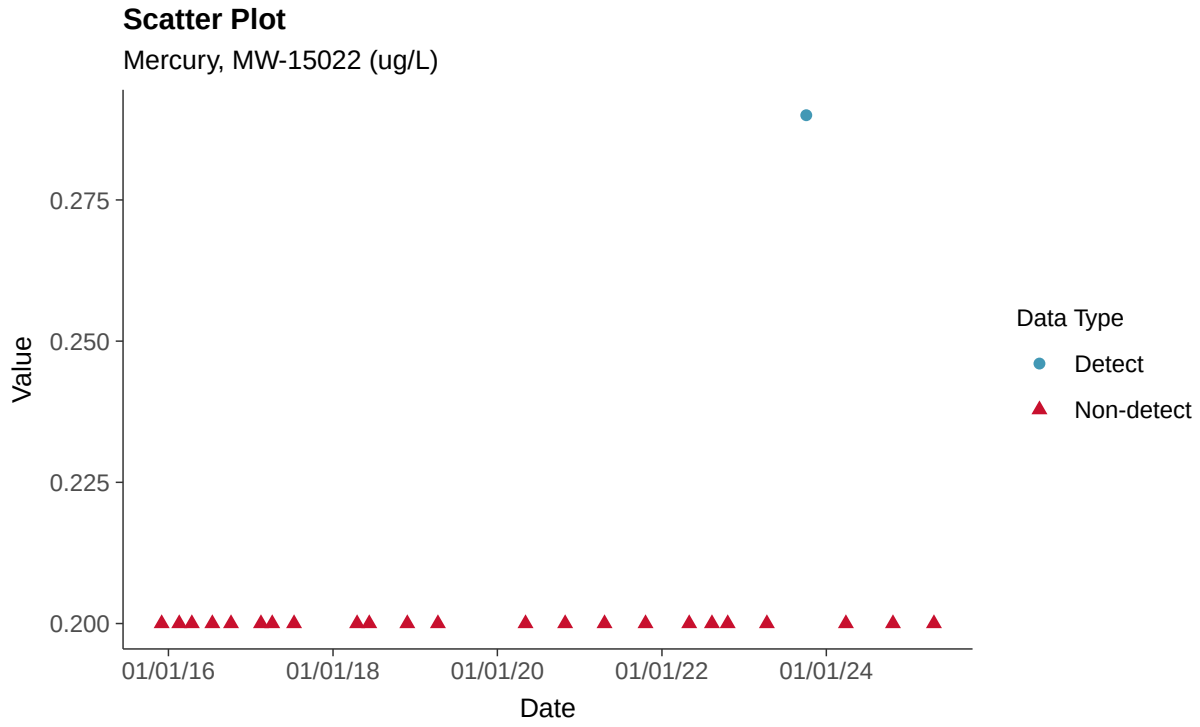
Trend Regression: Piecewise Linear-Linear-Linear

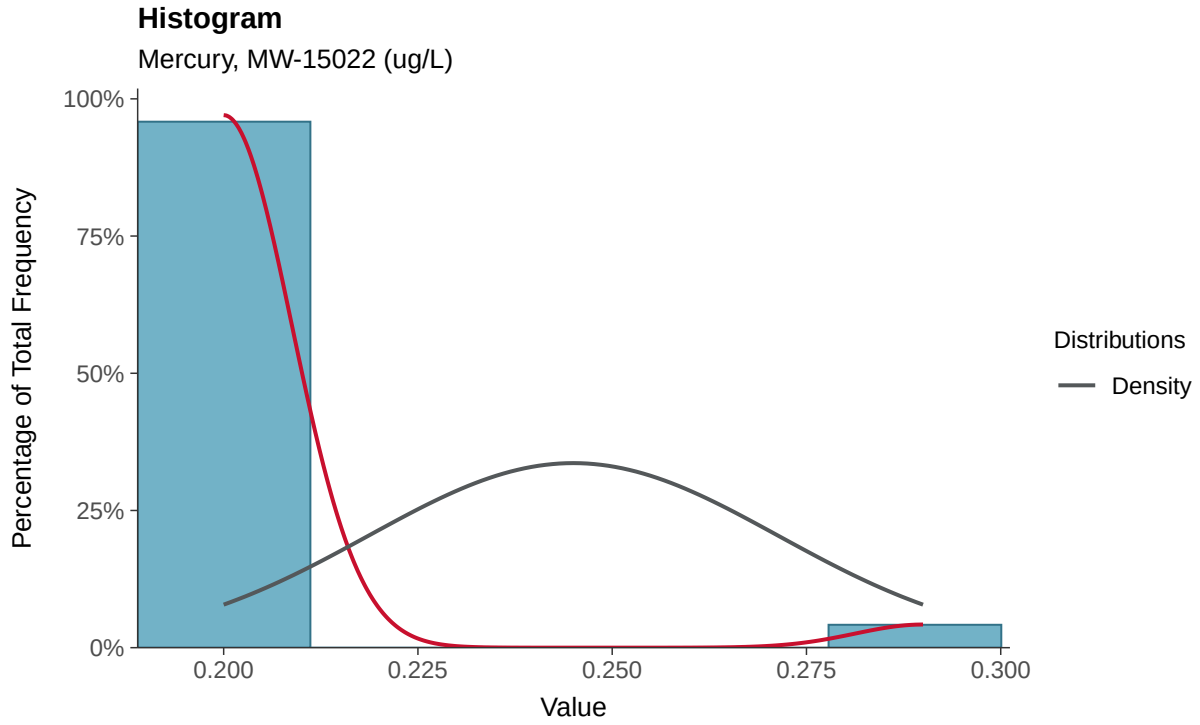
Lithium, MW-15022 (ug/L)



Appendix IV: Mercury, MW-15022

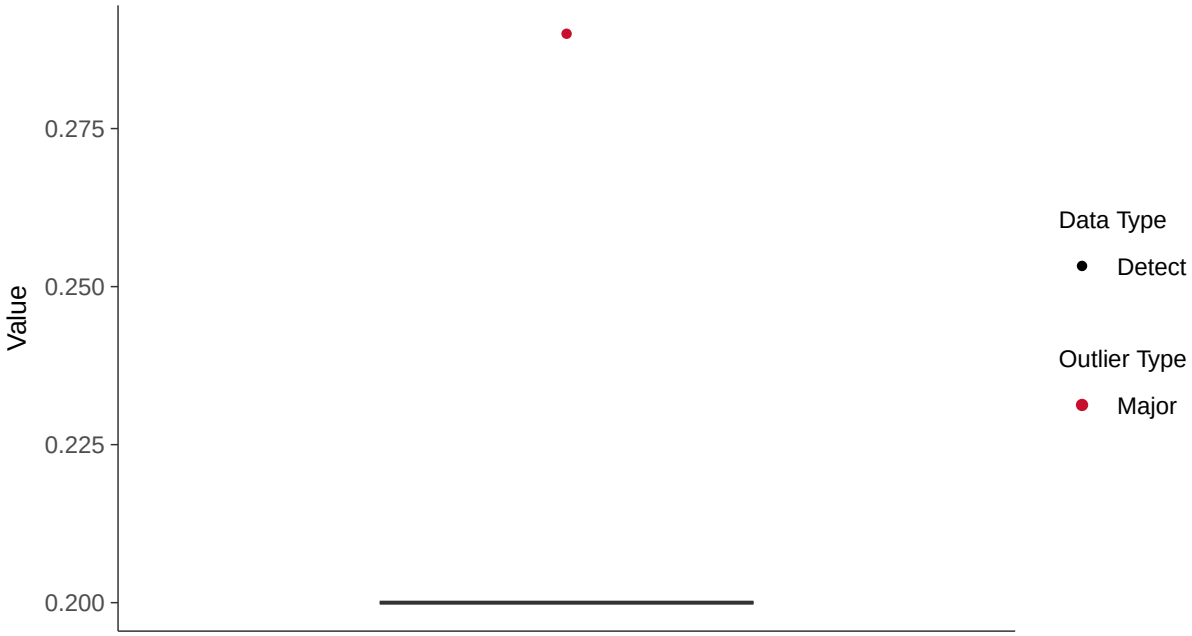
ID: 12_2_118





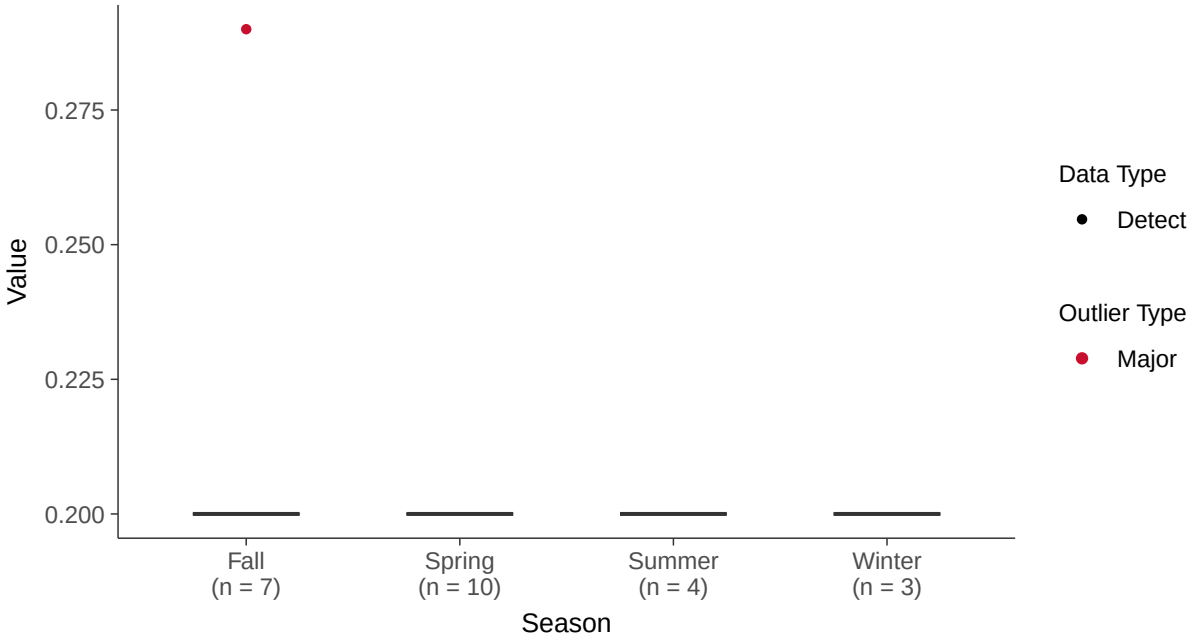
Boxplot

Mercury, MW-15022 (ug/L)



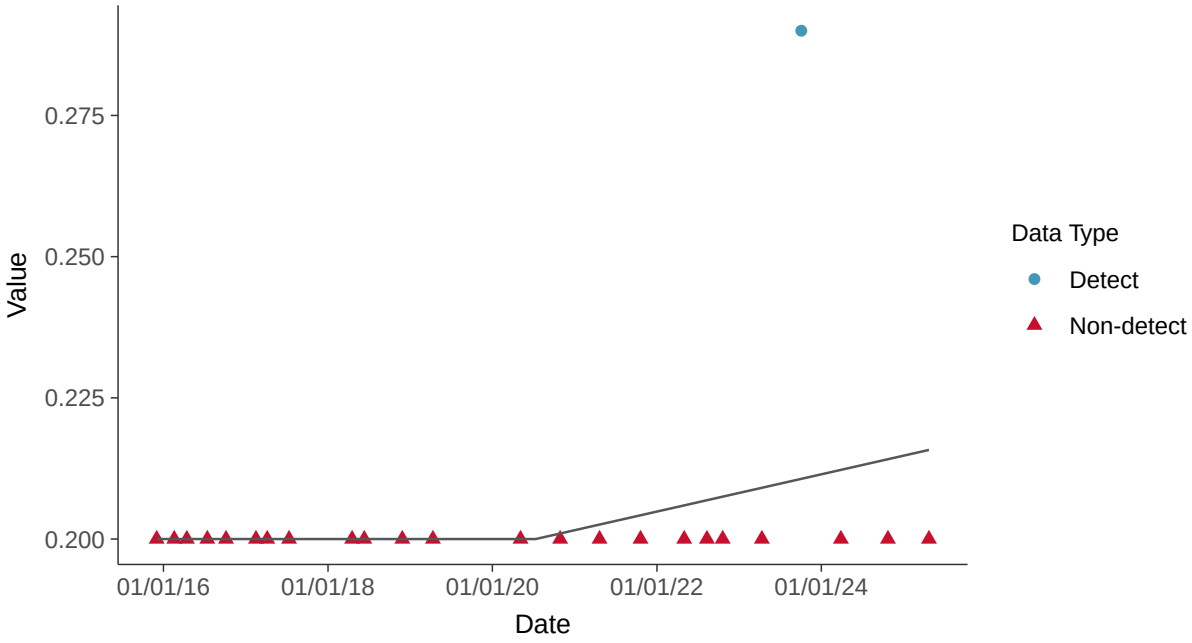
Boxplot by Season

Mercury, MW-15022 (ug/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-15022 (ug/L)

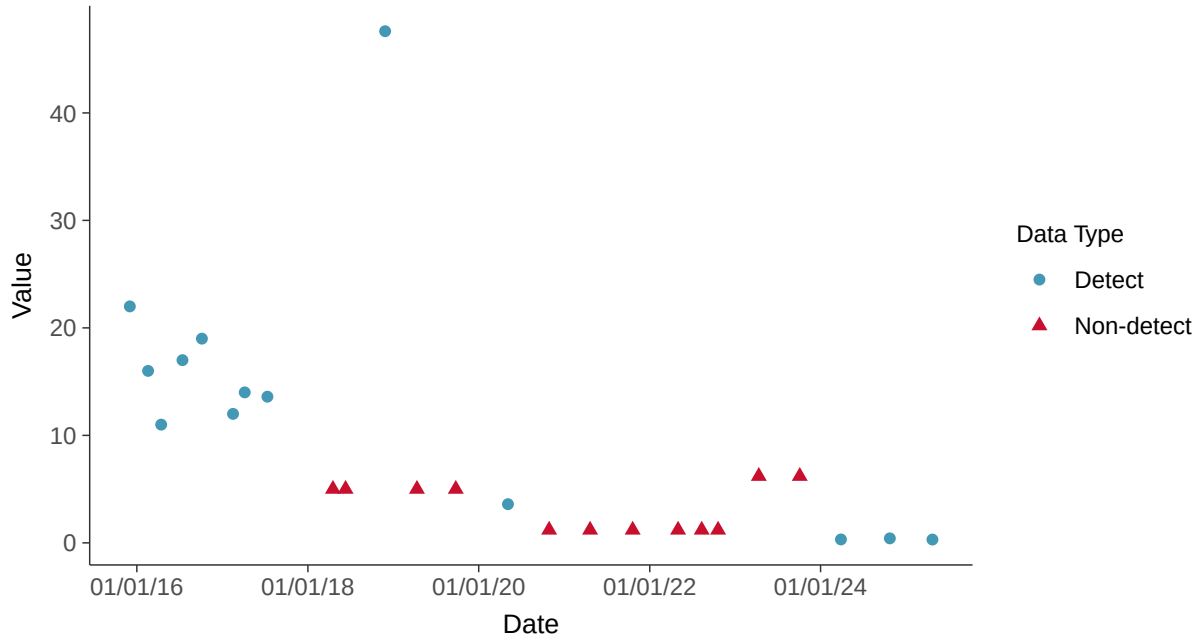


Appendix IV: Molybdenum, MW-15022

ID: 12_2_119

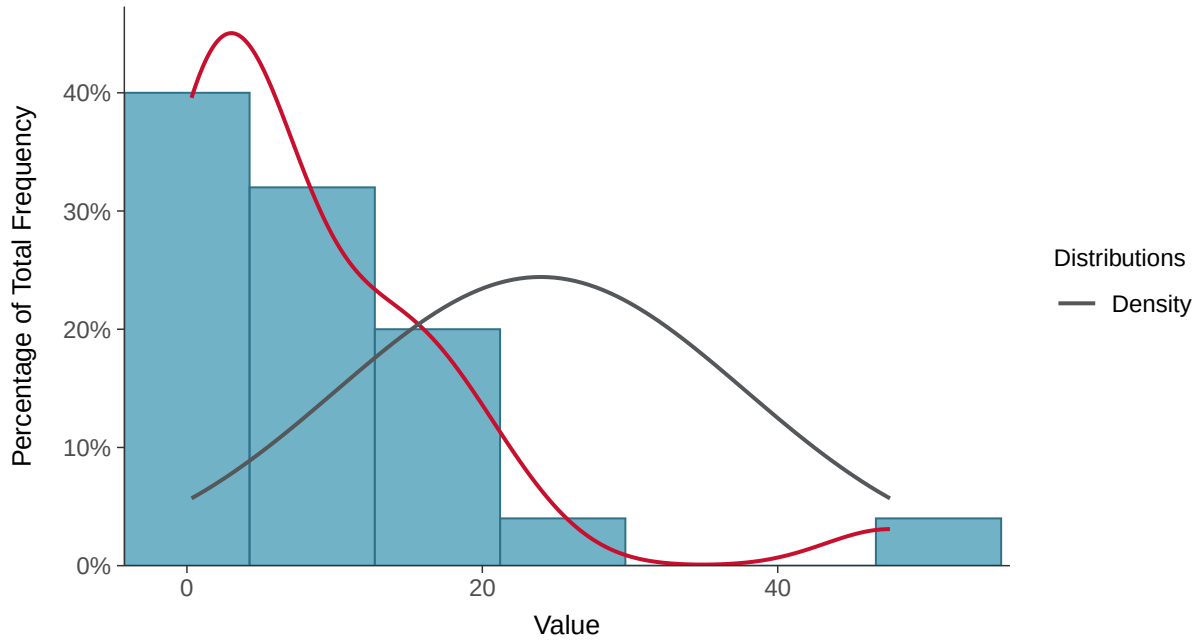
Scatter Plot

Molybdenum, MW-15022 (ug/L)



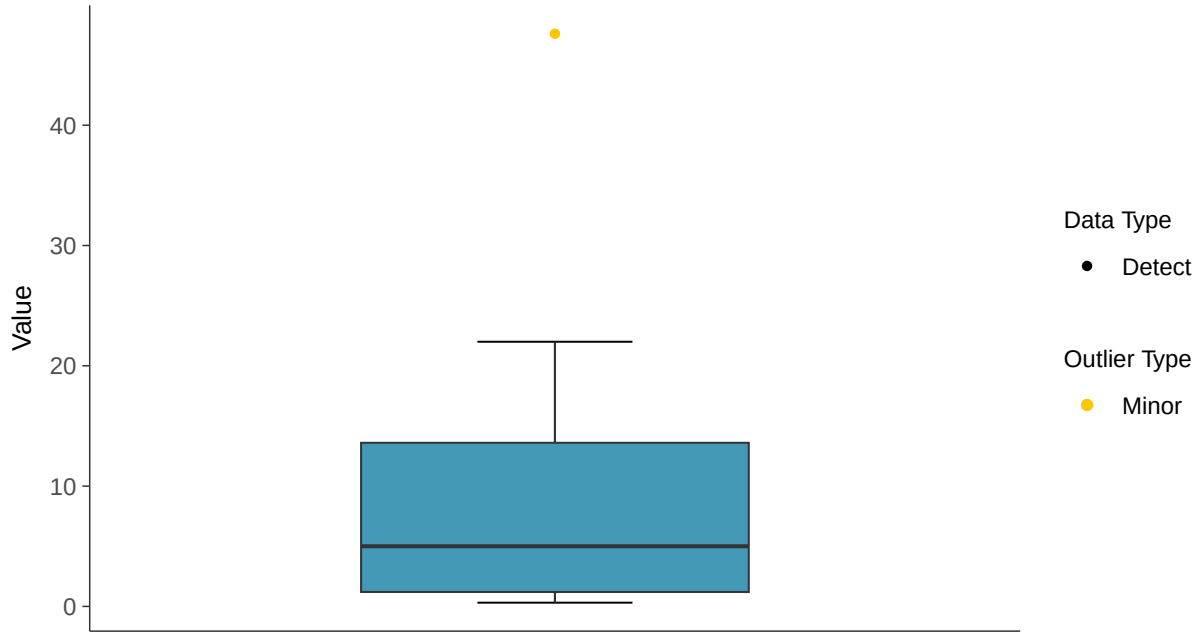
Histogram

Molybdenum, MW-15022 (ug/L)



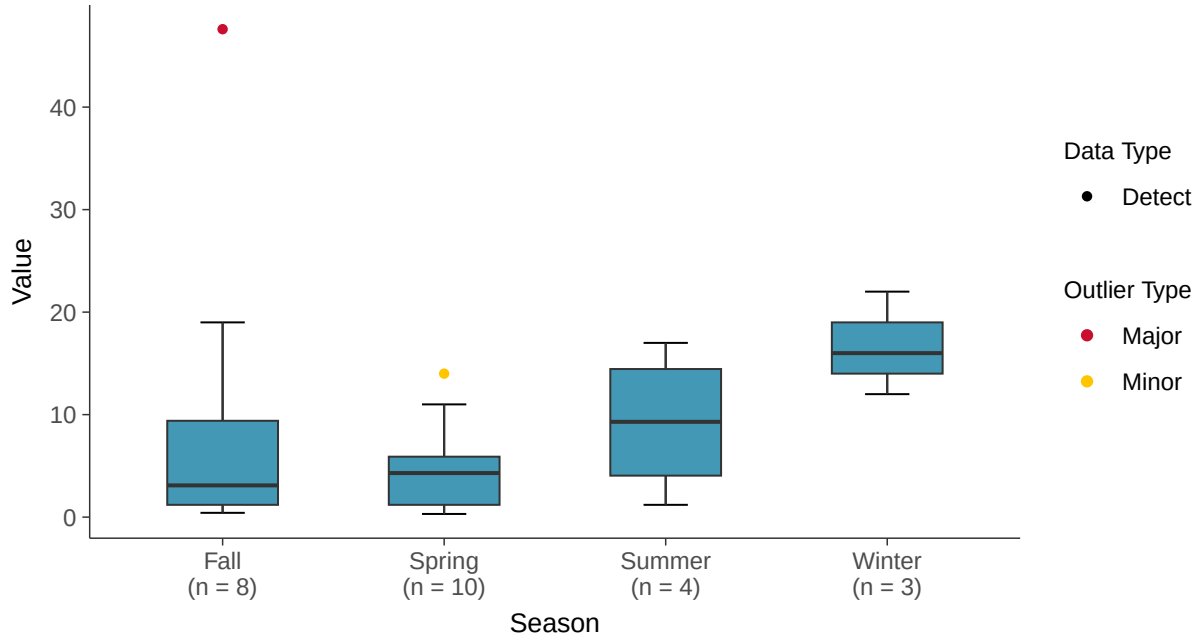
Boxplot

Molybdenum, MW-15022 (ug/L)



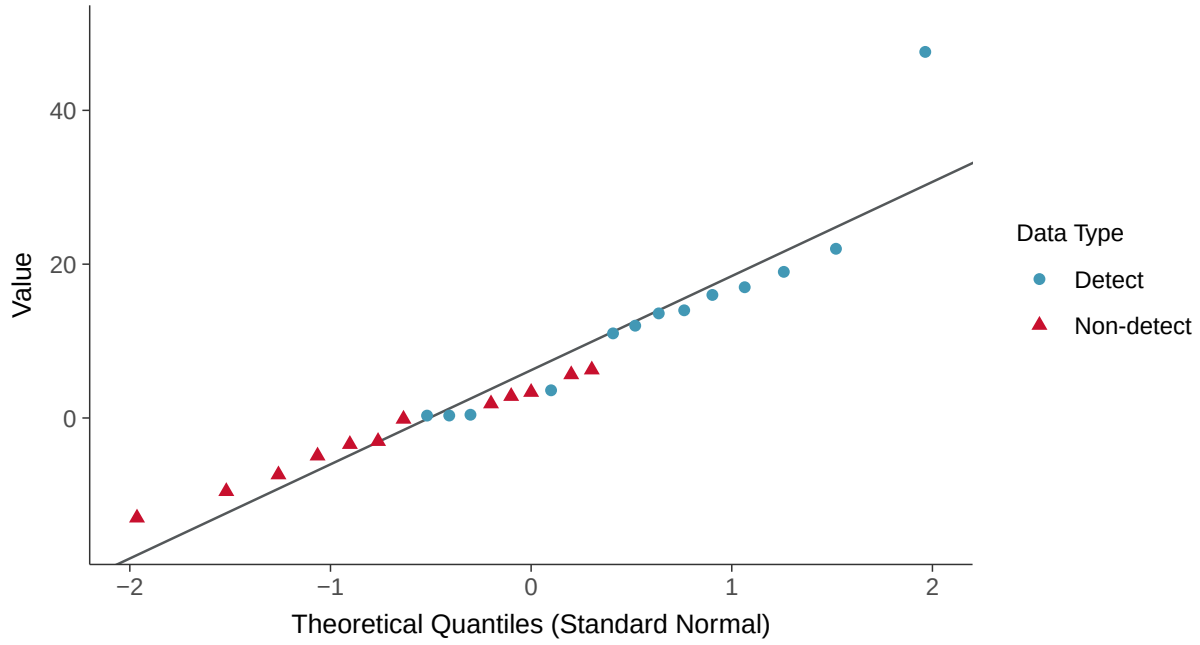
Boxplot by Season

Molybdenum, MW-15022 (ug/L)



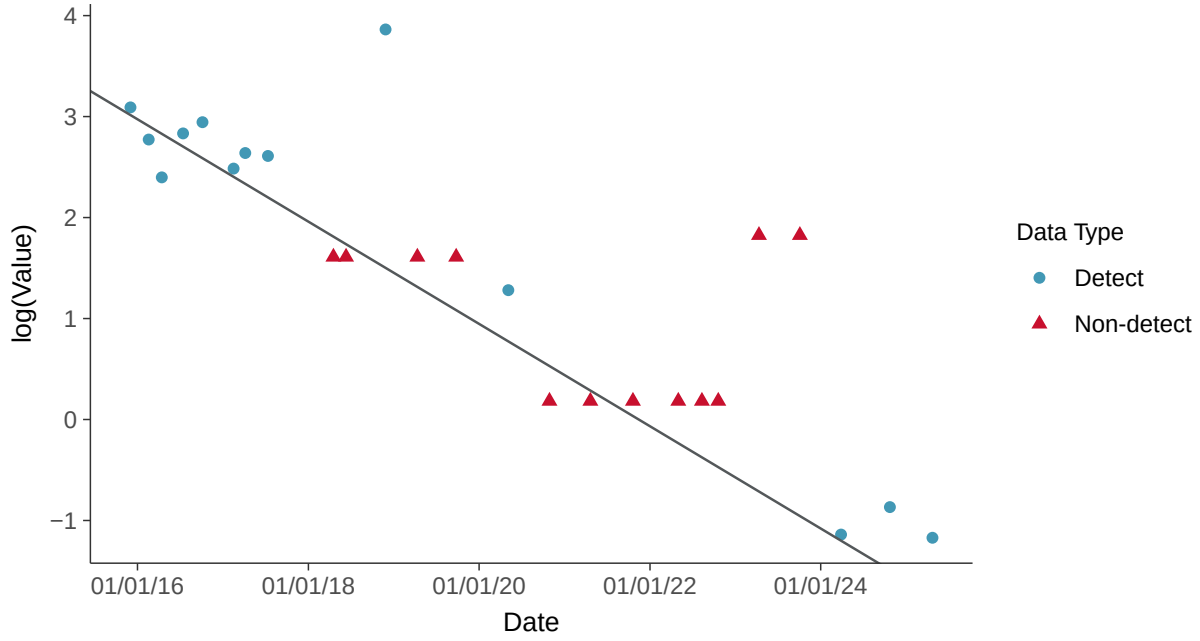
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15022 (ug/L)



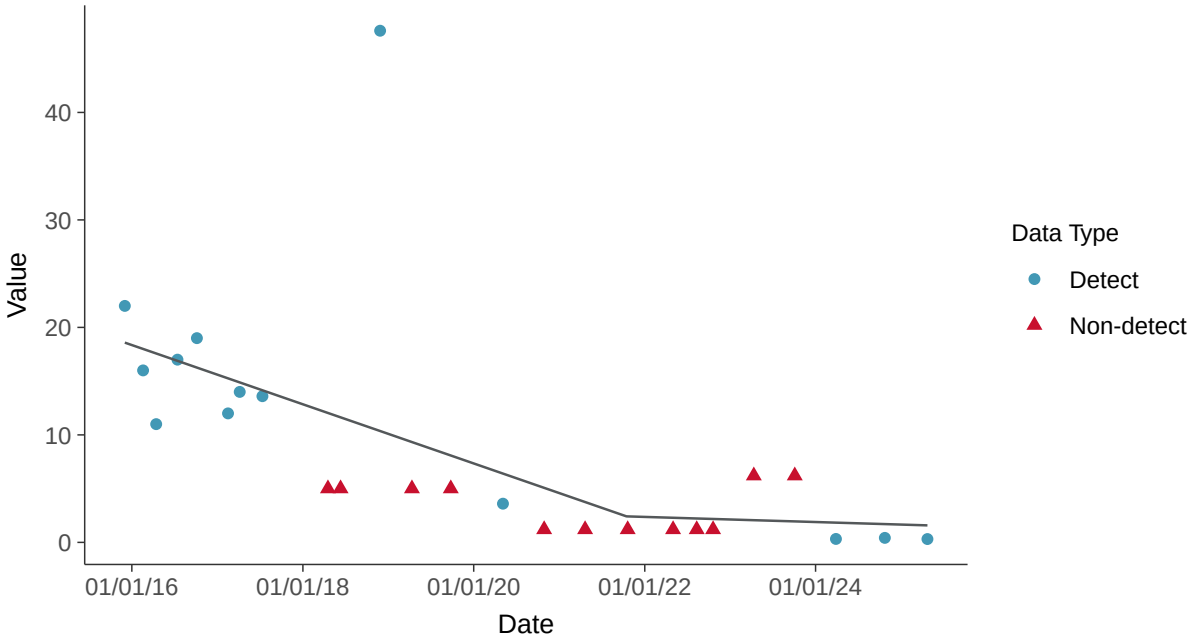
Trend Regression: Lognormal MLE

Molybdenum, MW-15022 (ug/L)



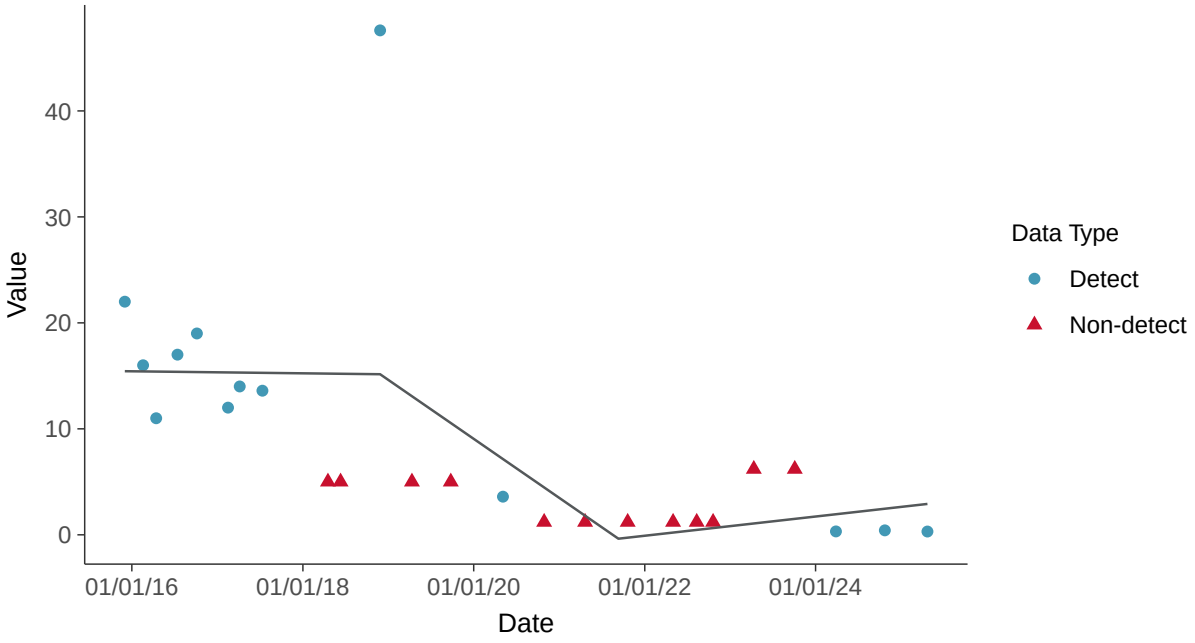
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-15022 (ug/L)



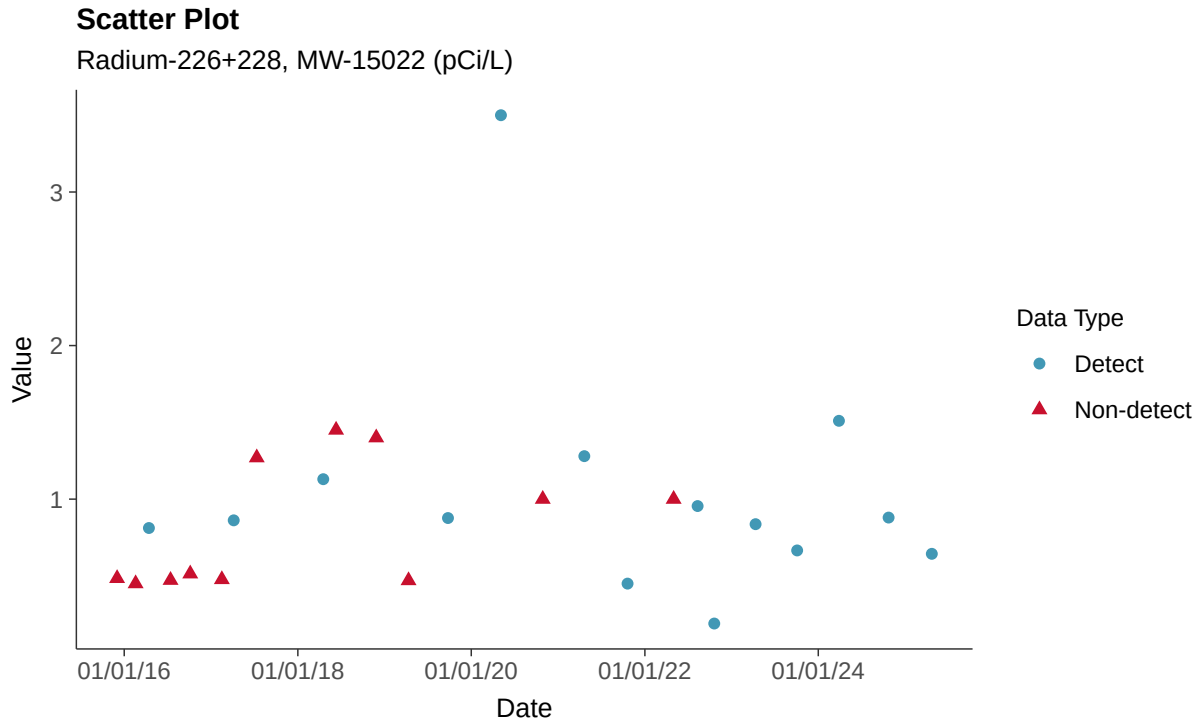
Trend Regression: Piecewise Linear-Linear-Linear

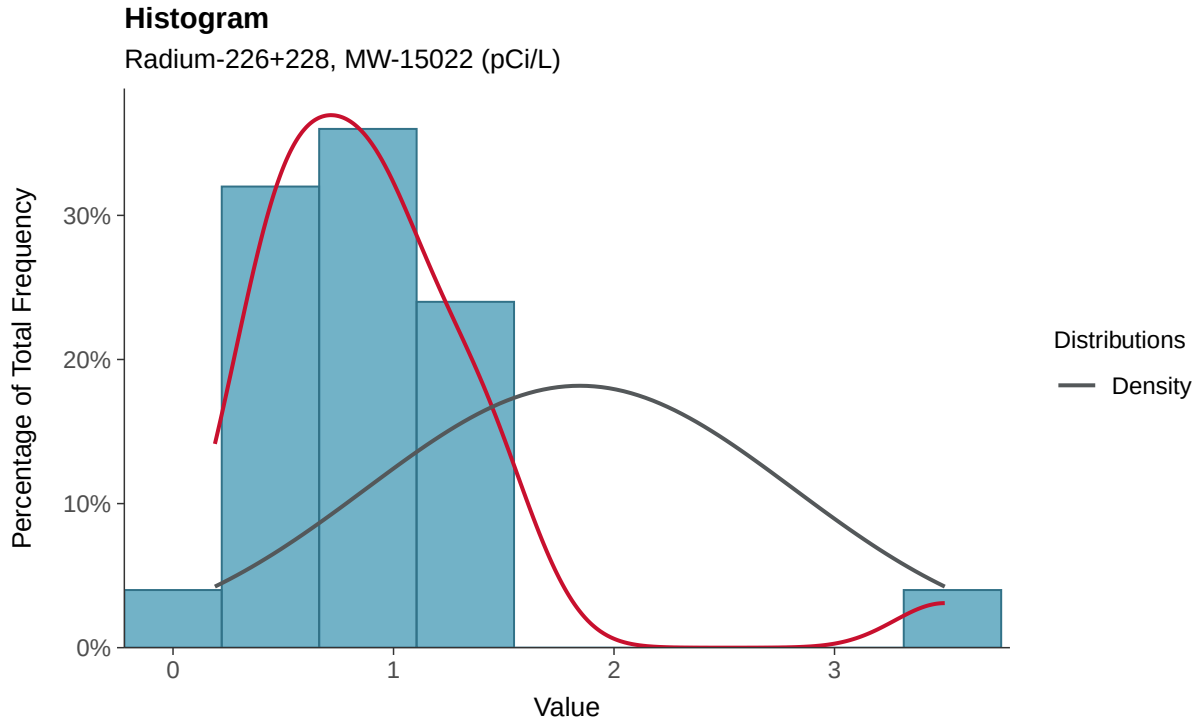
Molybdenum, MW-15022 (ug/L)



Appendix IV: Radium-226+228, MW-15022

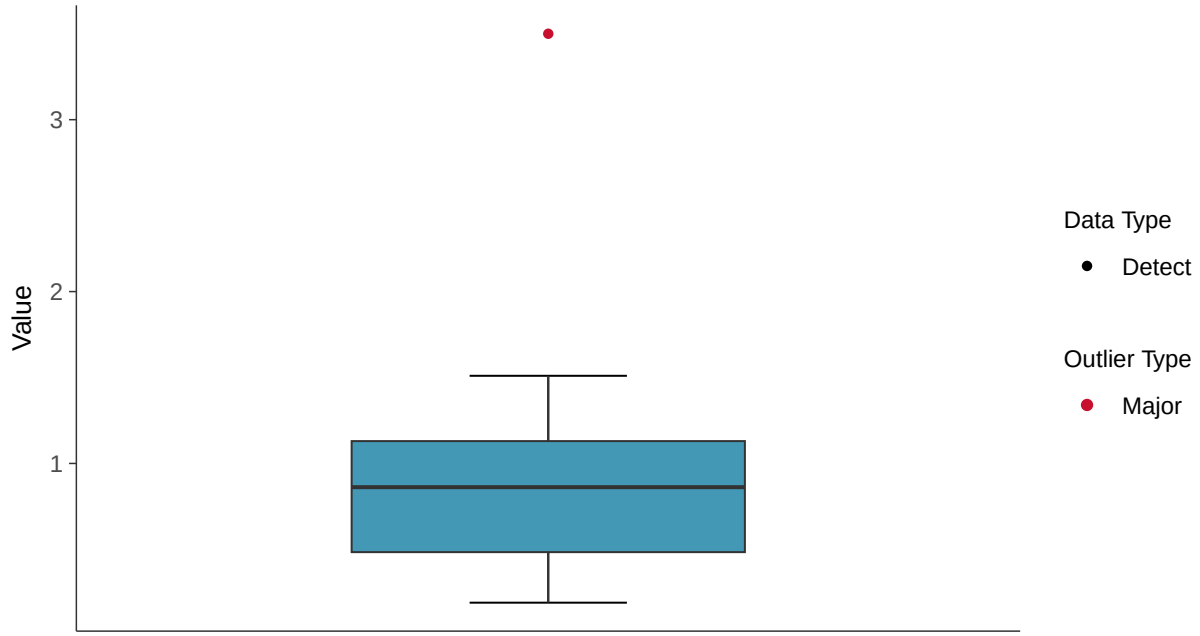
ID: 12_2_125





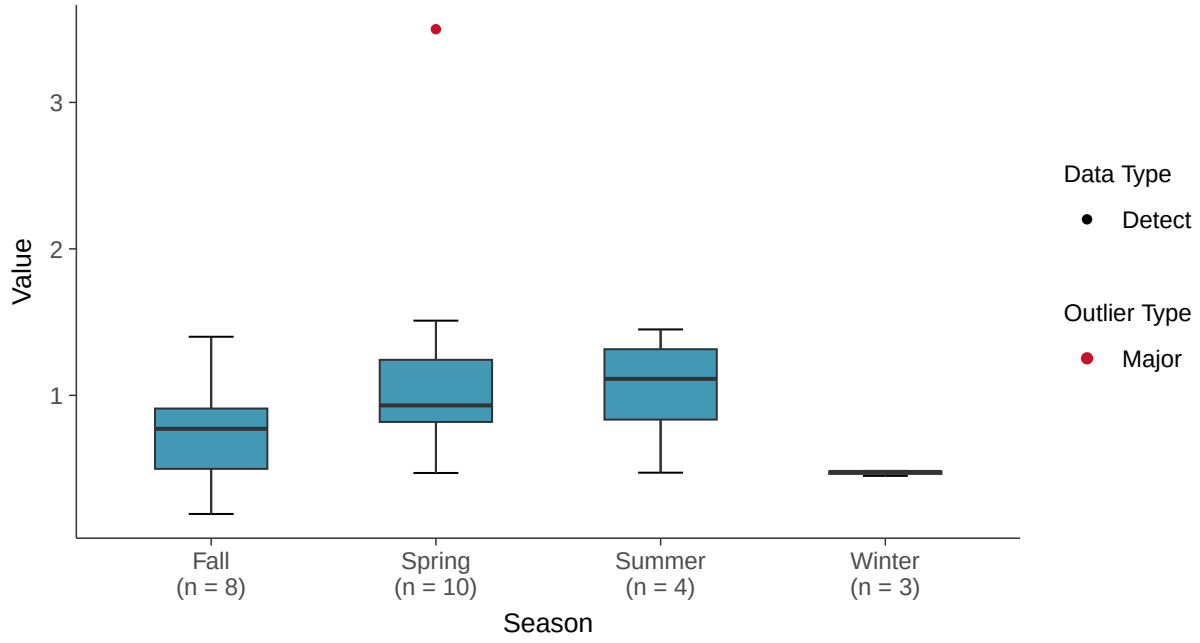
Boxplot

Radium-226+228, MW-15022 (pCi/L)



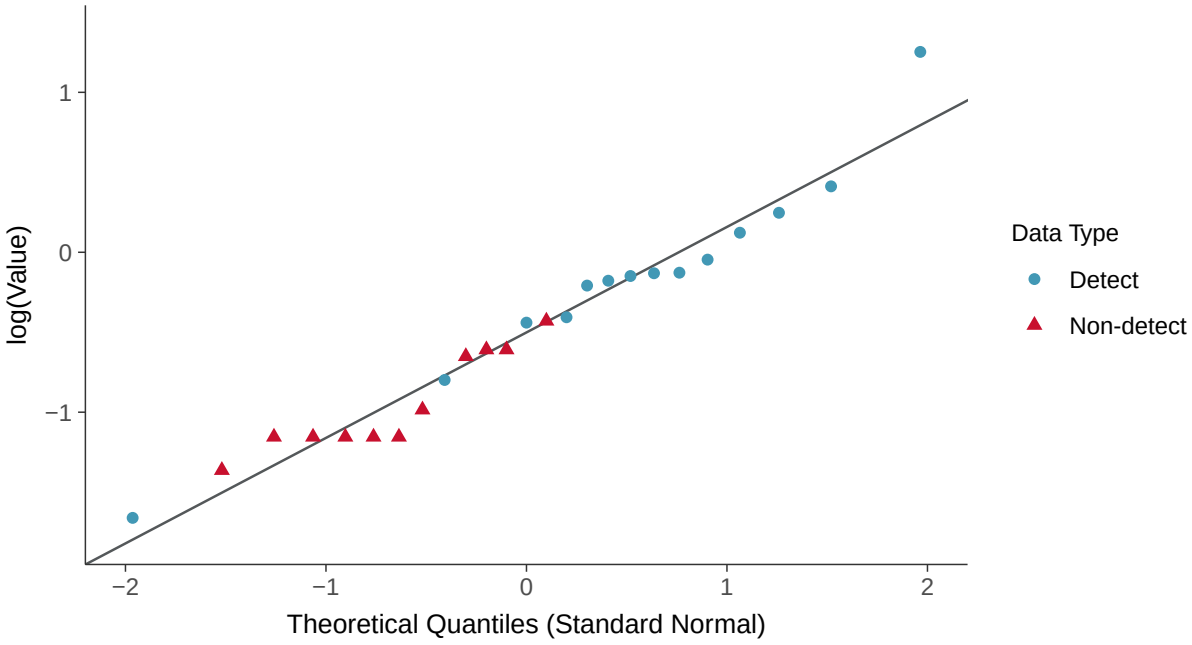
Boxplot by Season

Radium-226+228, MW-15022 (pCi/L)



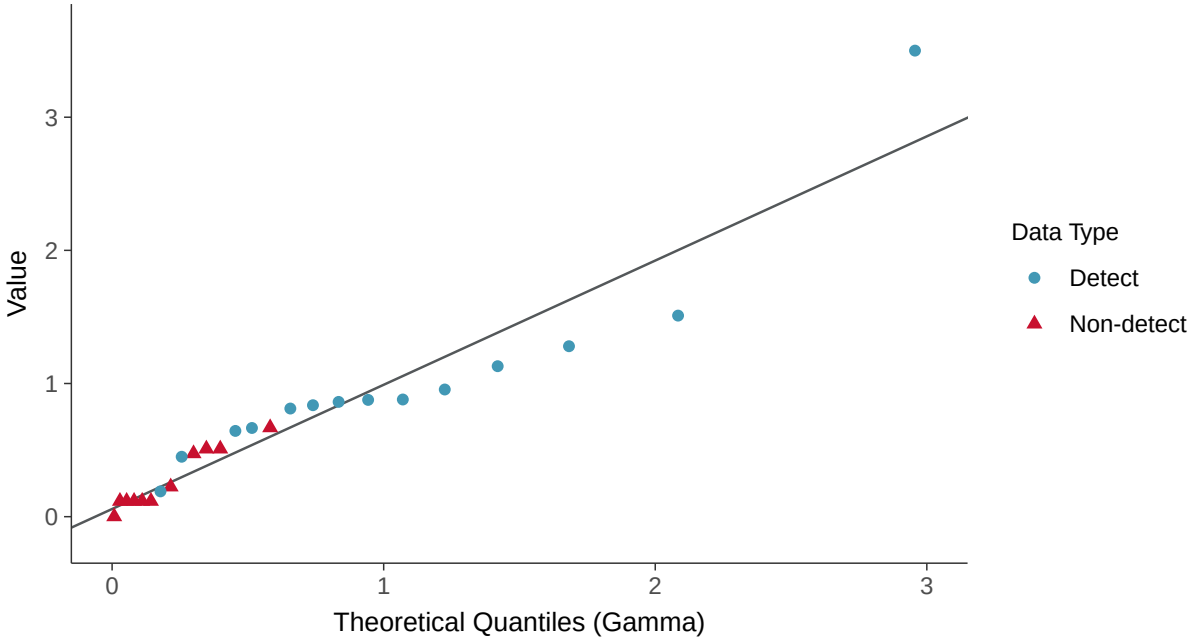
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15022 (pCi/L)



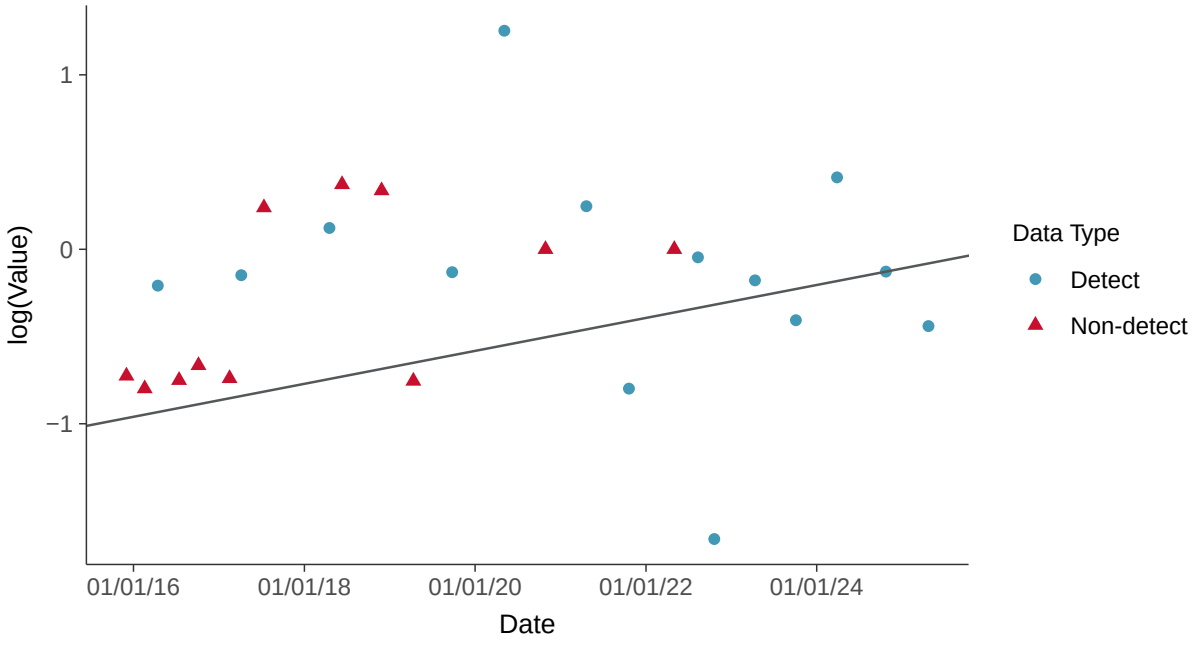
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15022 (pCi/L)



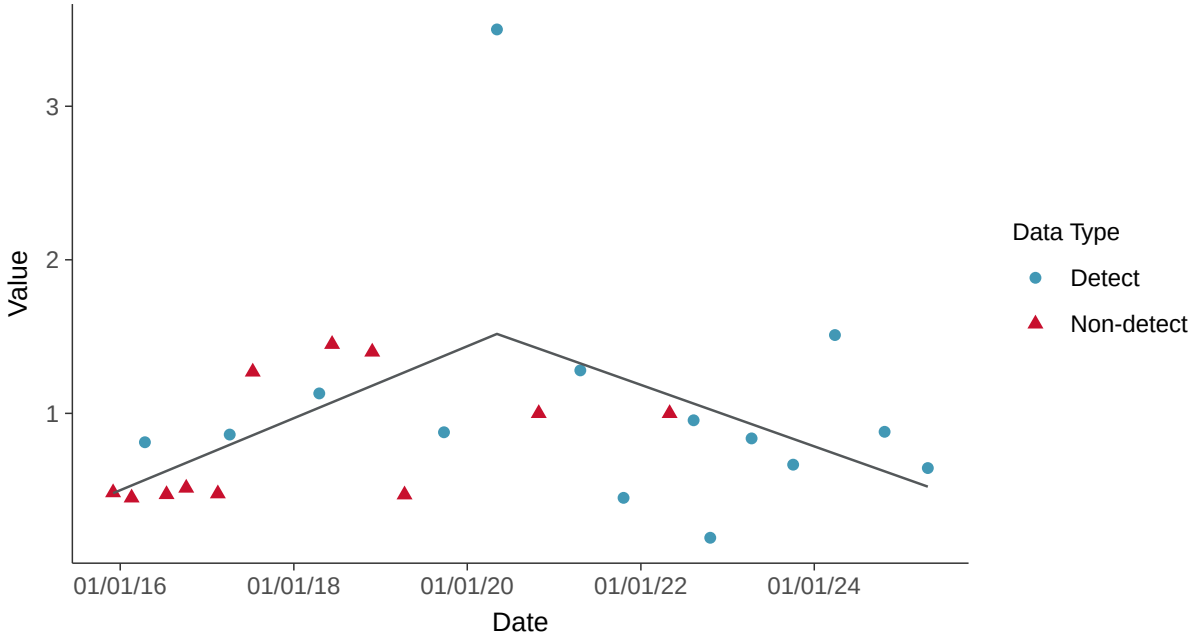
Trend Regression: Lognormal MLE

Radium-226+228, MW-15022 (pCi/L)



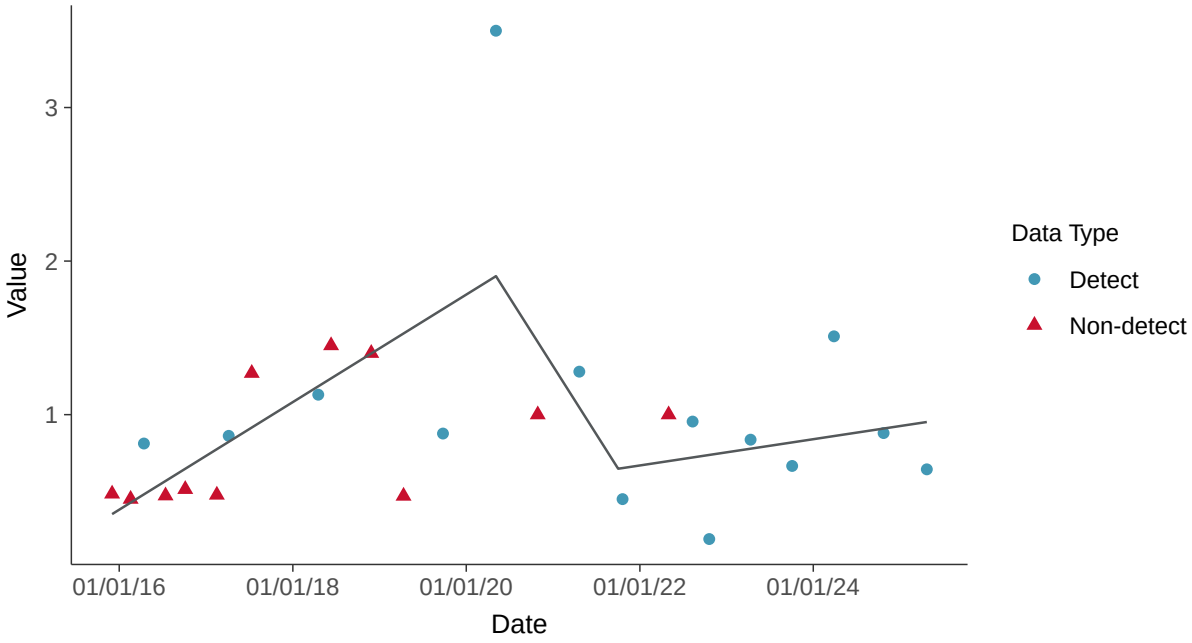
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-15022 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium-226+228, MW-15022 (pCi/L)

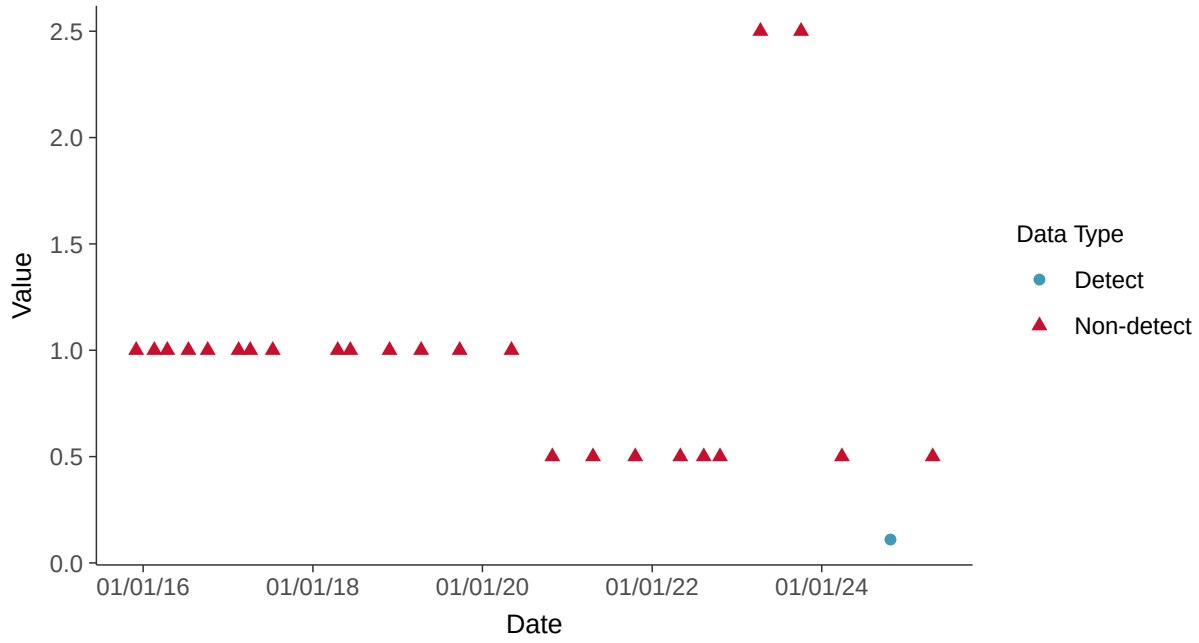


Appendix IV: Selenium, MW-15022

ID: 12_2_127

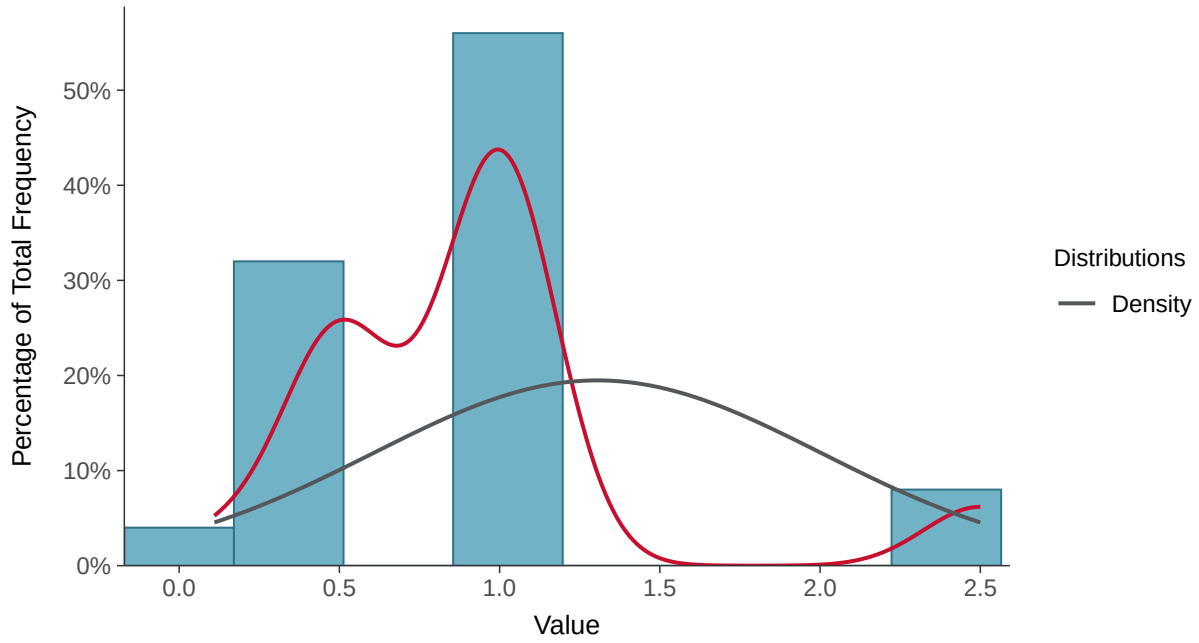
Scatter Plot

Selenium, MW-15022 (ug/L)



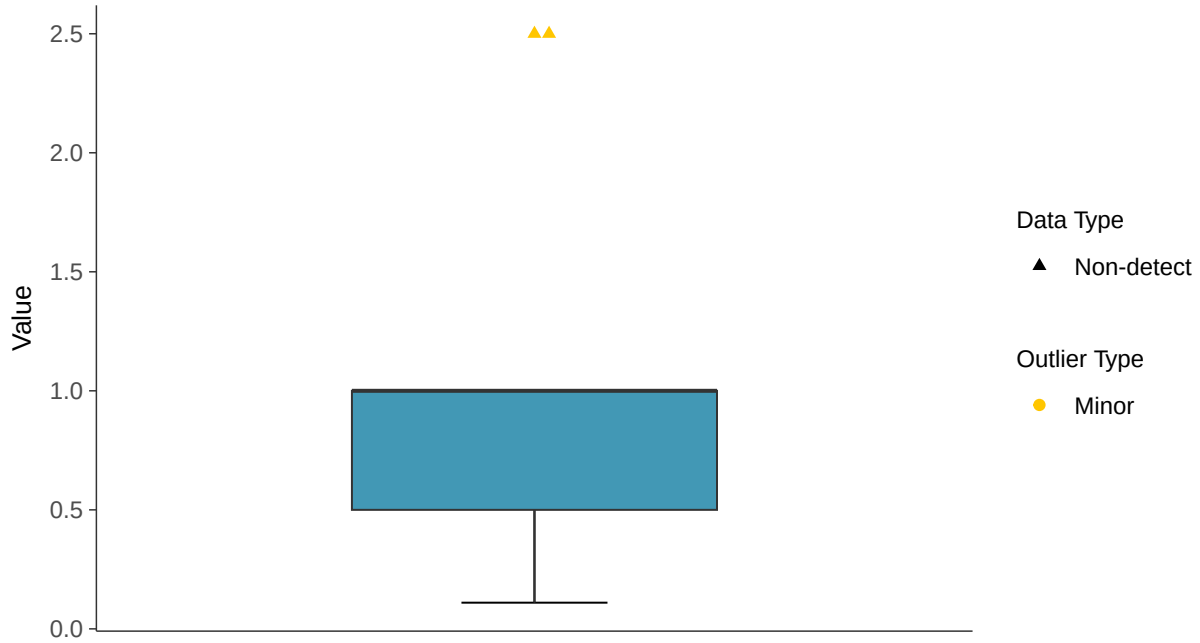
Histogram

Selenium, MW-15022 (ug/L)



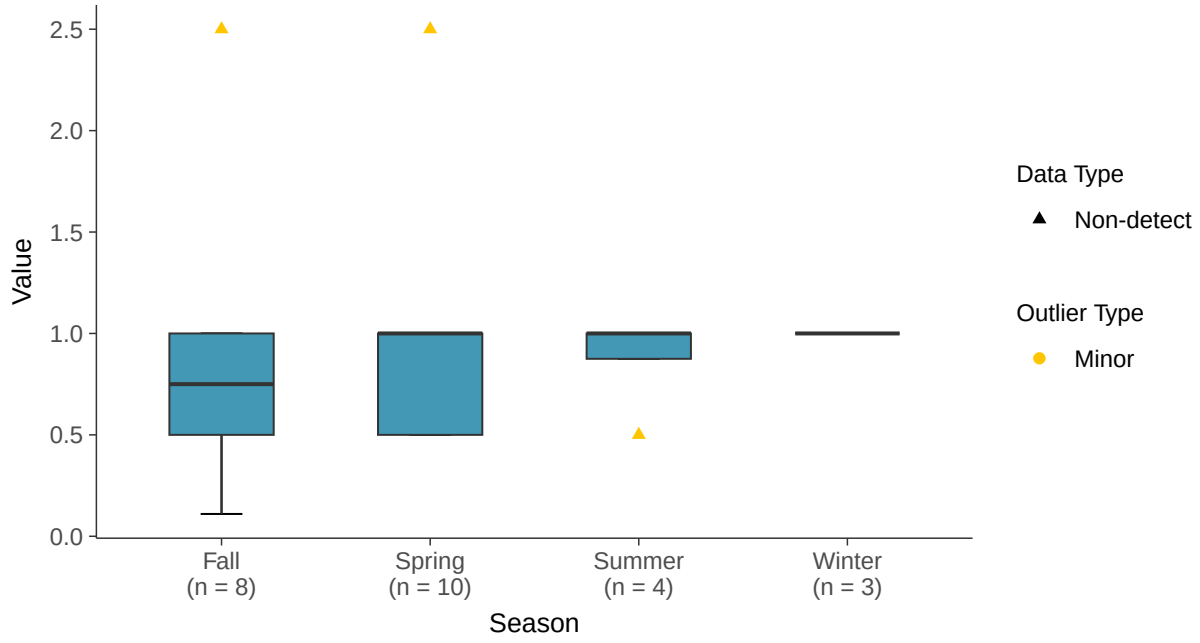
Boxplot

Selenium, MW-15022 (ug/L)



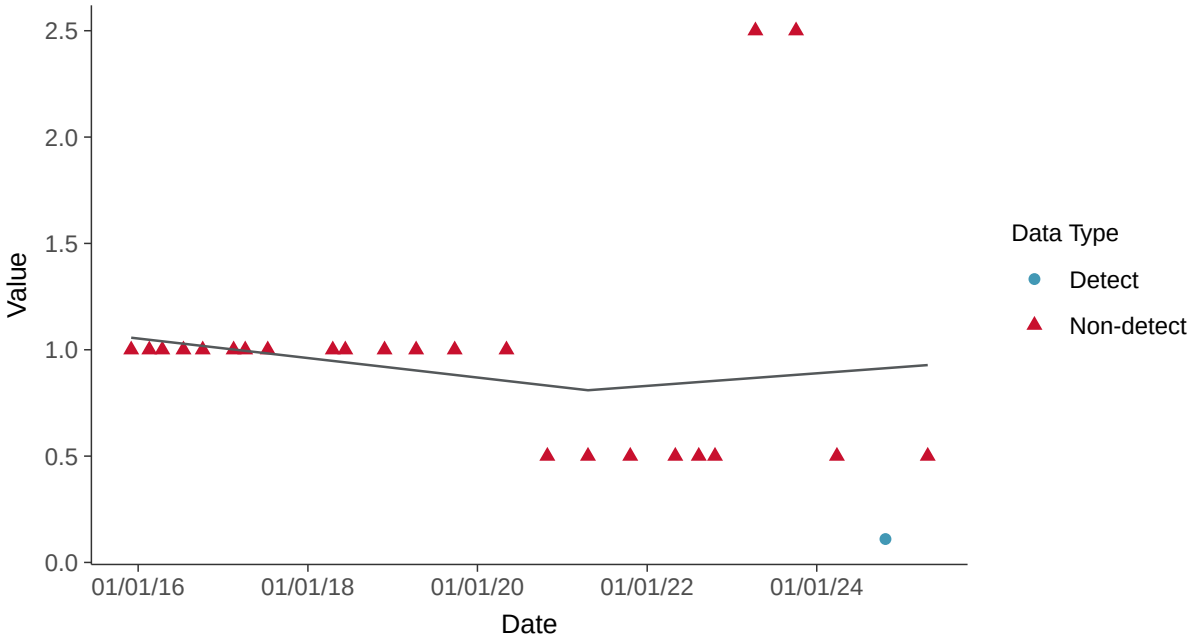
Boxplot by Season

Selenium, MW-15022 (ug/L)



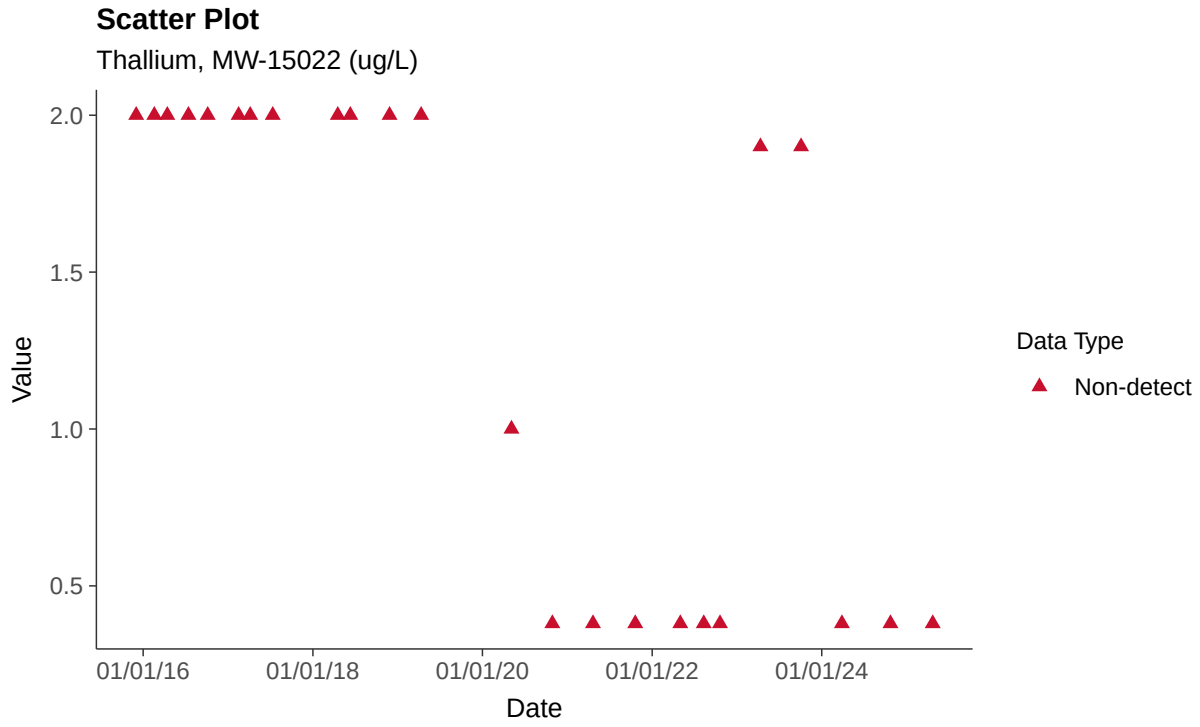
Trend Regression: Piecewise Linear-Linear

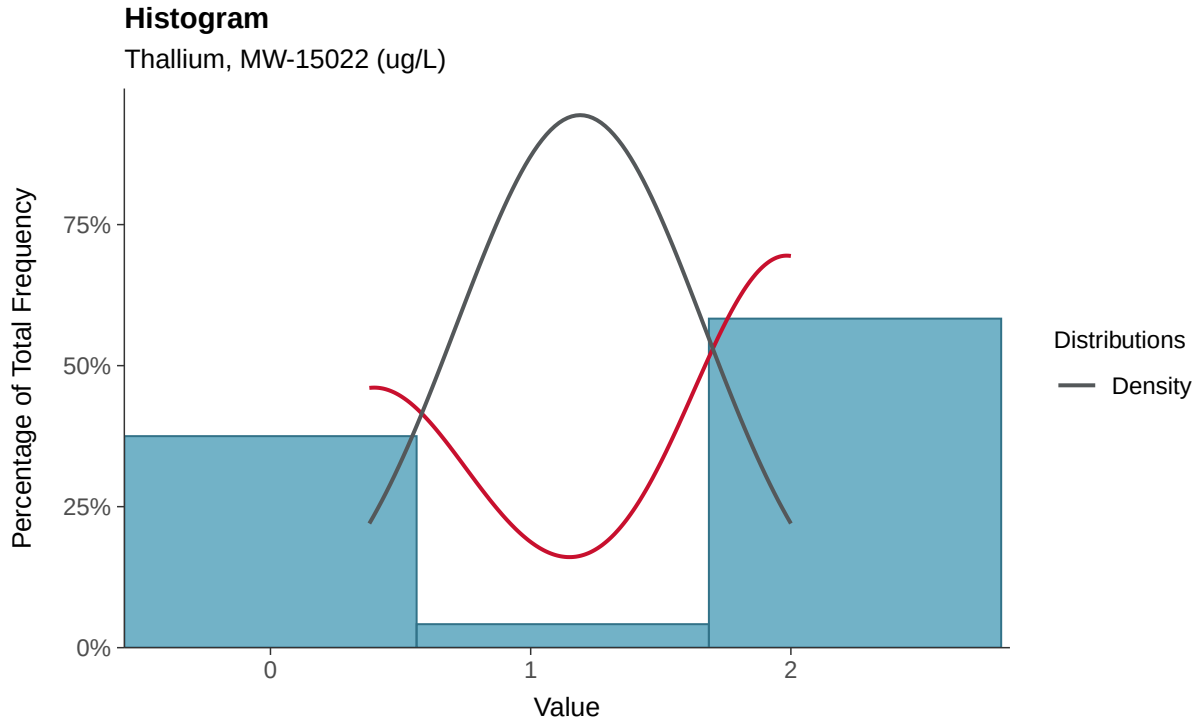
Selenium, MW-15022 (ug/L)



Appendix IV: Thallium, MW-15022

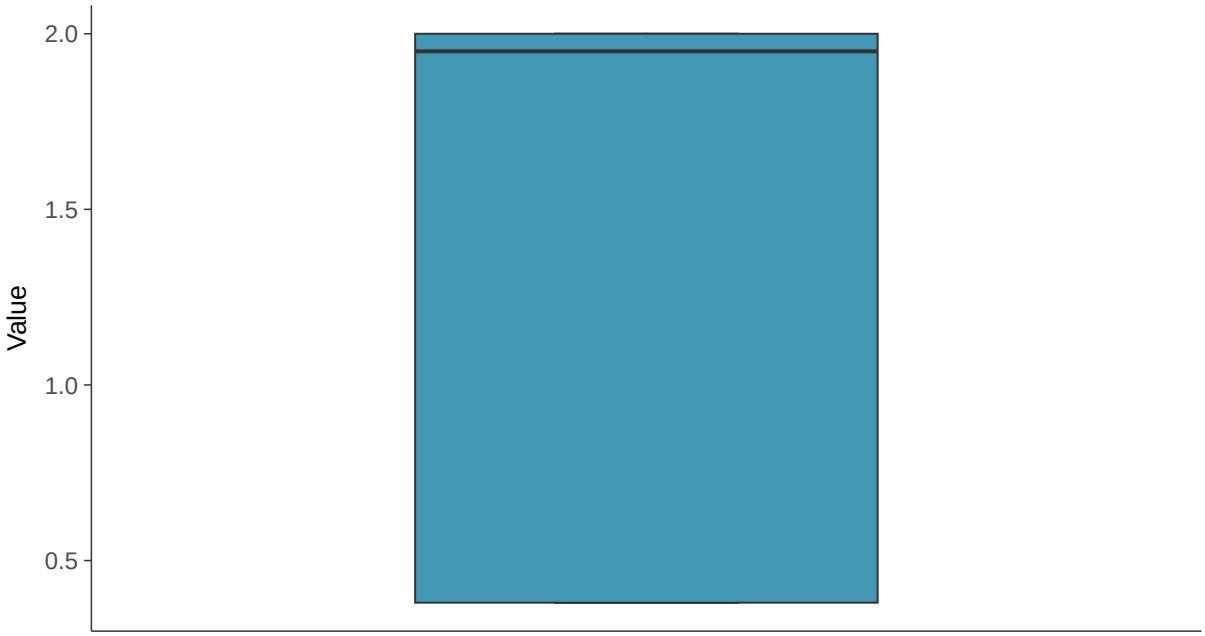
ID: 12_2_131





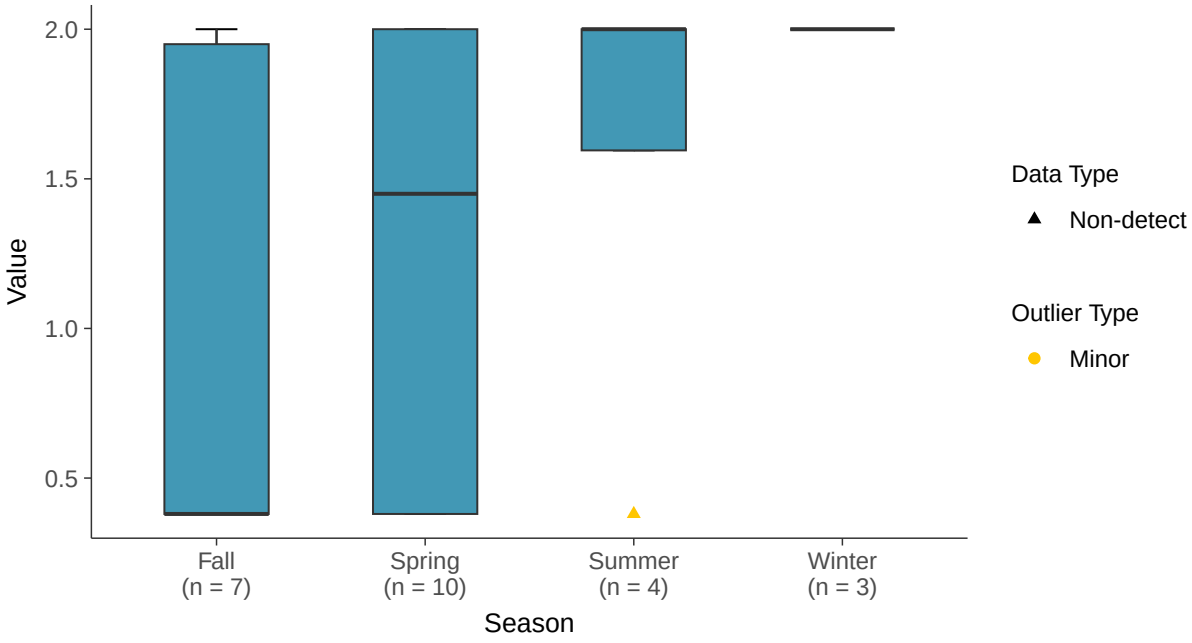
Boxplot

Thallium, MW-15022 (ug/L)



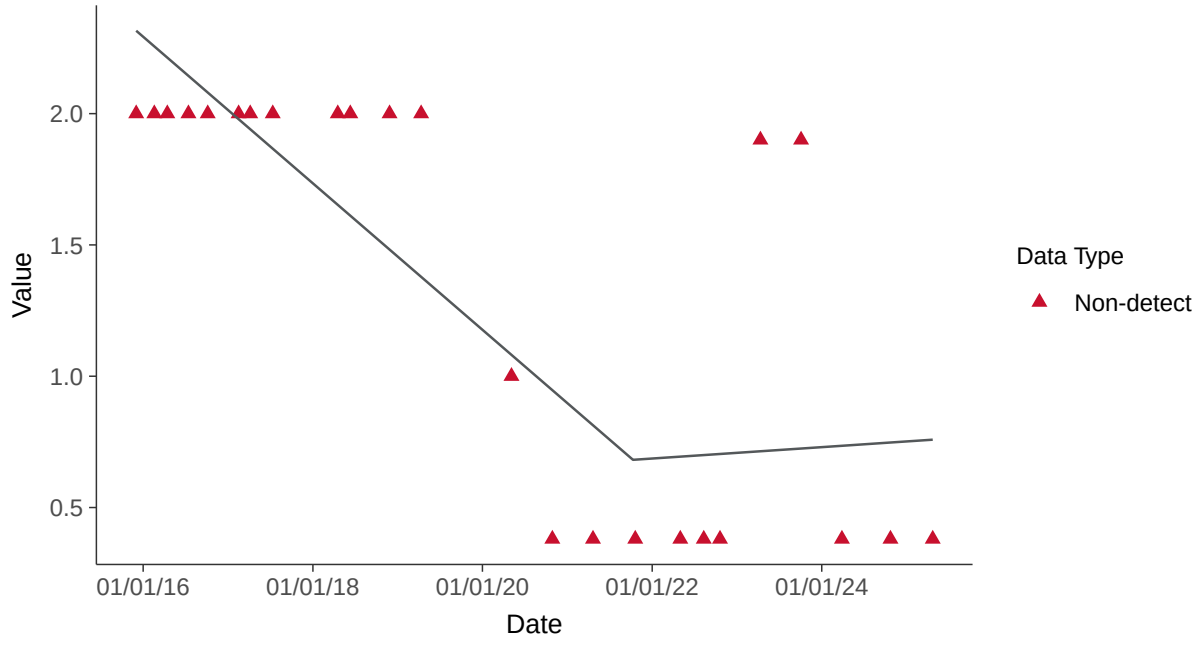
Boxplot by Season

Thallium, MW-15022 (ug/L)



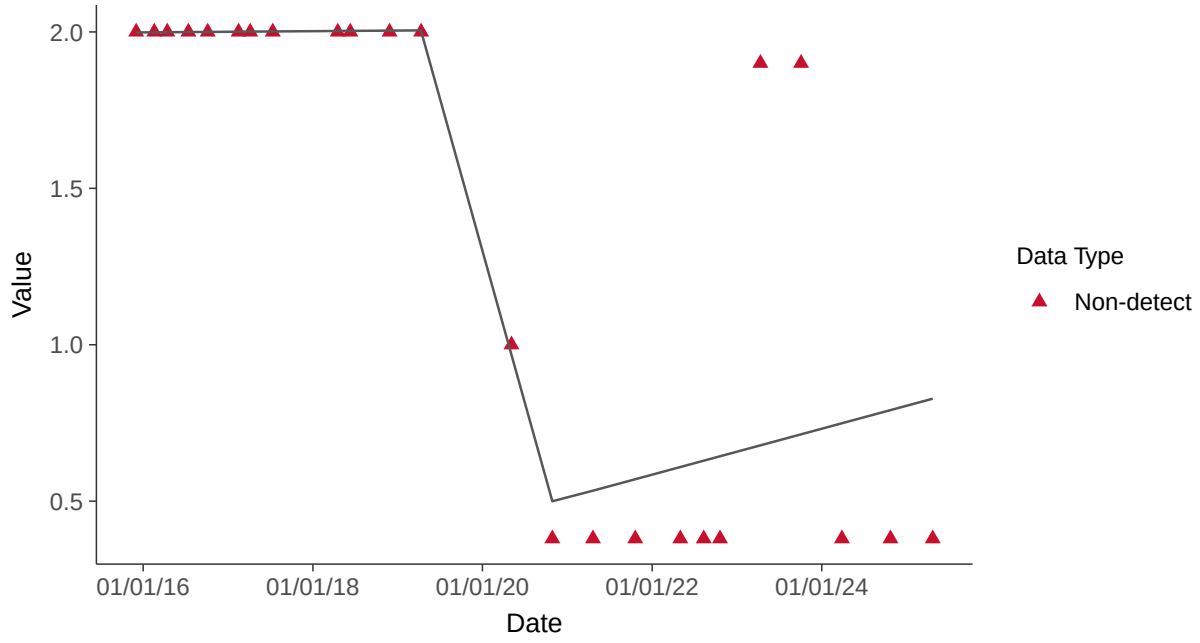
Trend Regression: Piecewise Linear-Linear

Thallium, MW-15022 (ug/L)



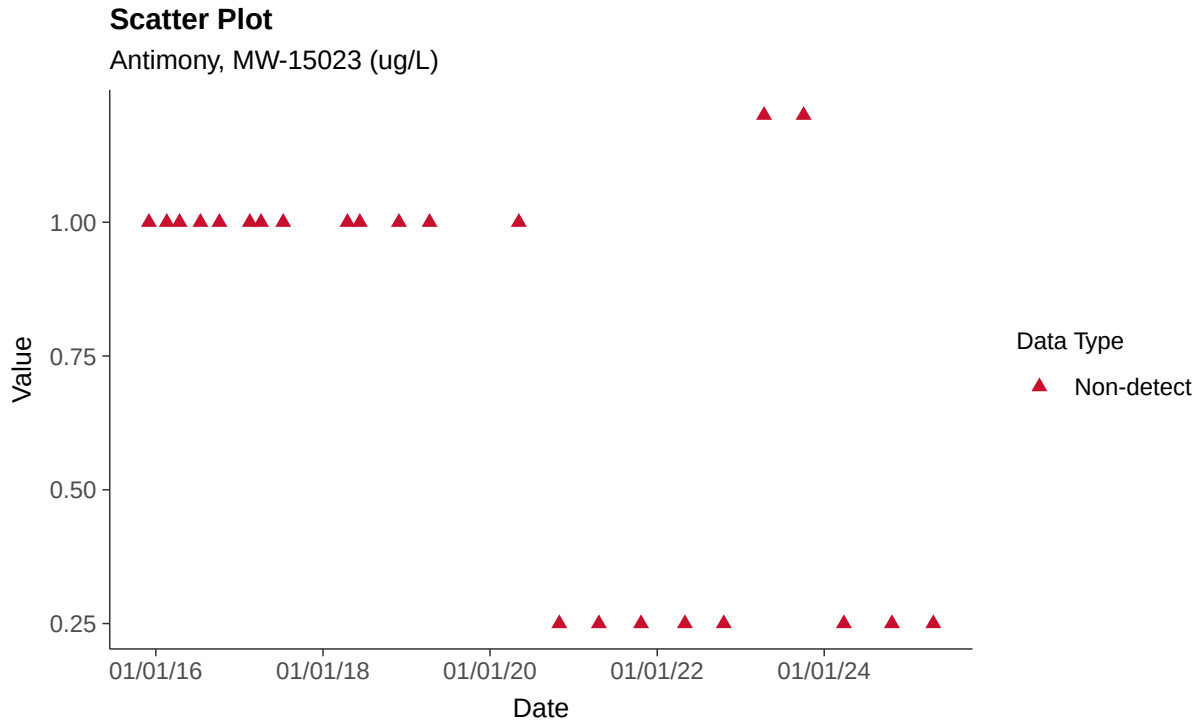
Trend Regression: Piecewise Linear-Linear-Linear

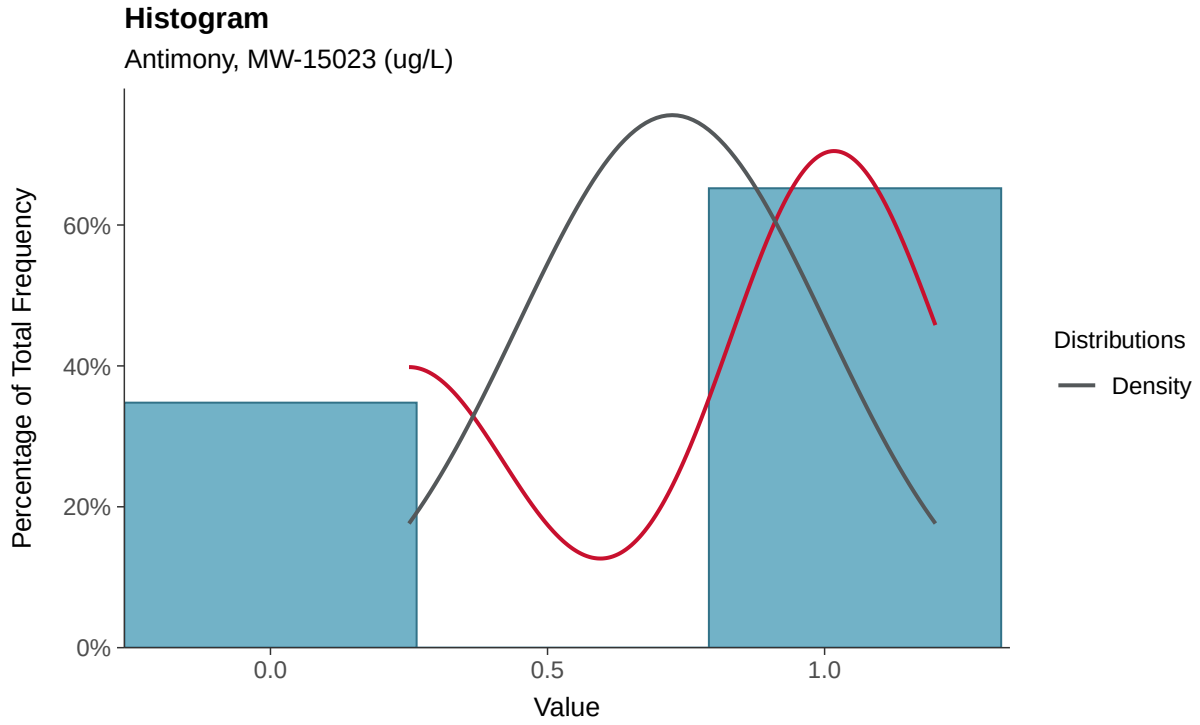
Thallium, MW-15022 (ug/L)



Appendix IV: Antimony, MW-15023

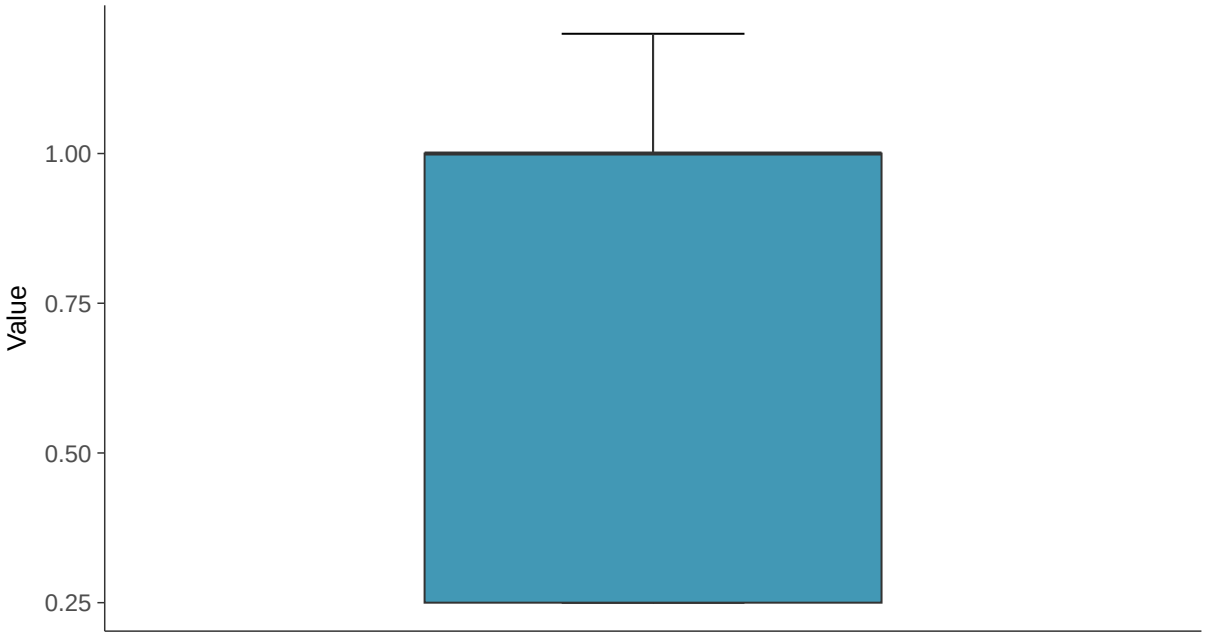
ID: 13_2_101





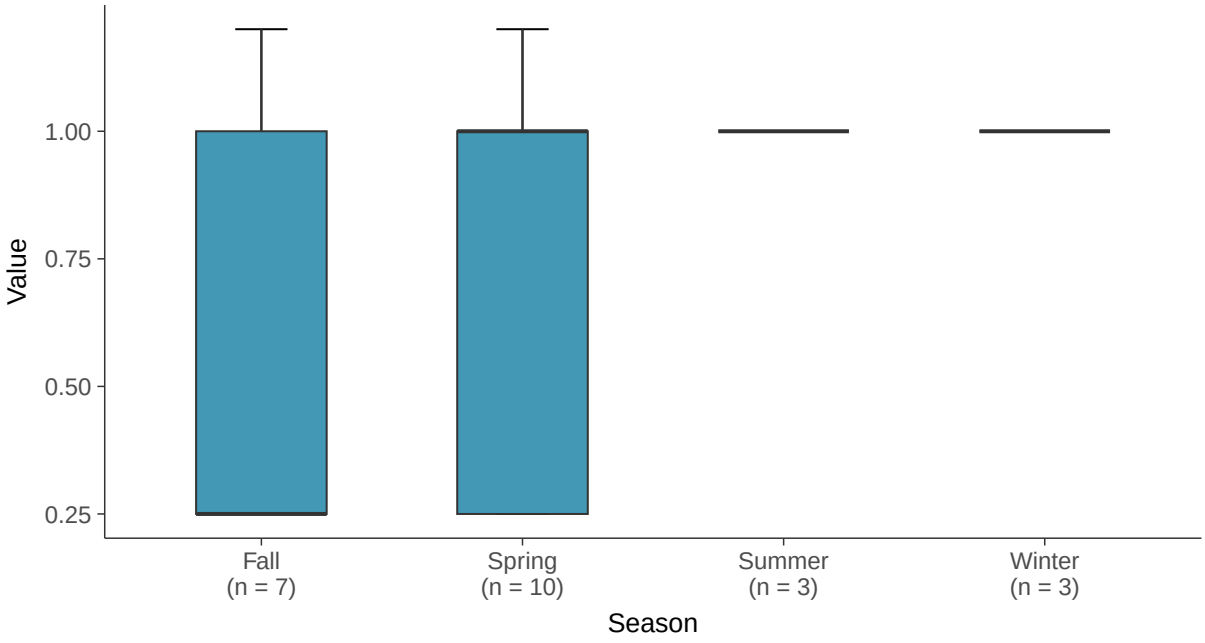
Boxplot

Antimony, MW-15023 (ug/L)



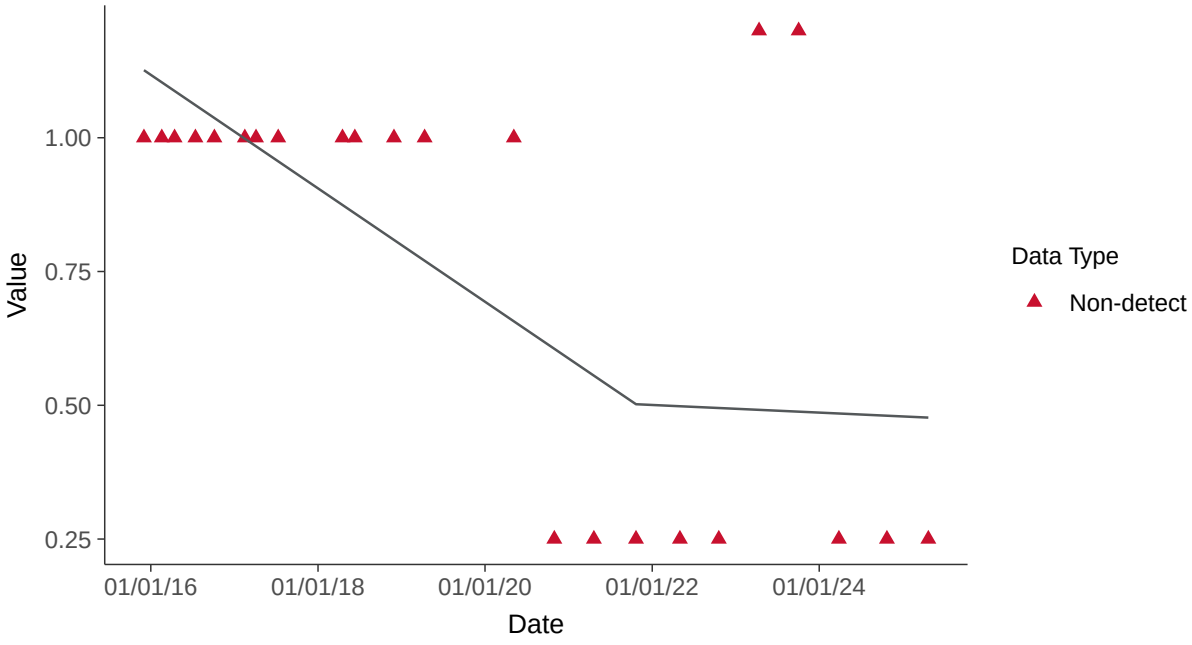
Boxplot by Season

Antimony, MW-15023 (ug/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-15023 (ug/L)

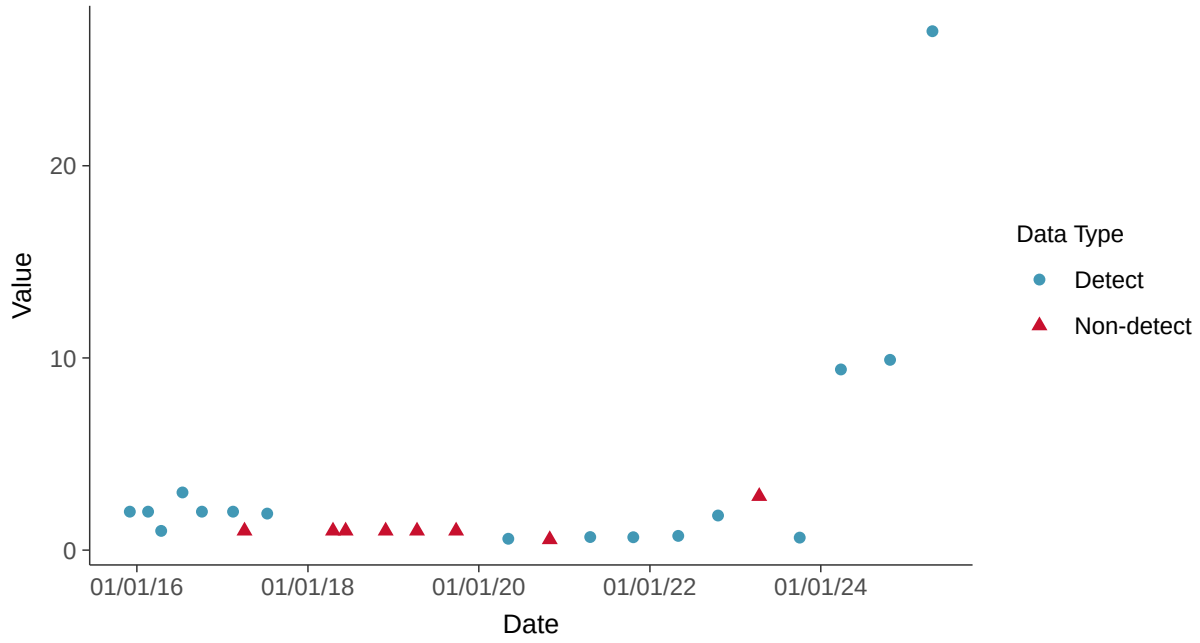


Appendix IV: Arsenic, MW-15023

ID: 13_2_102

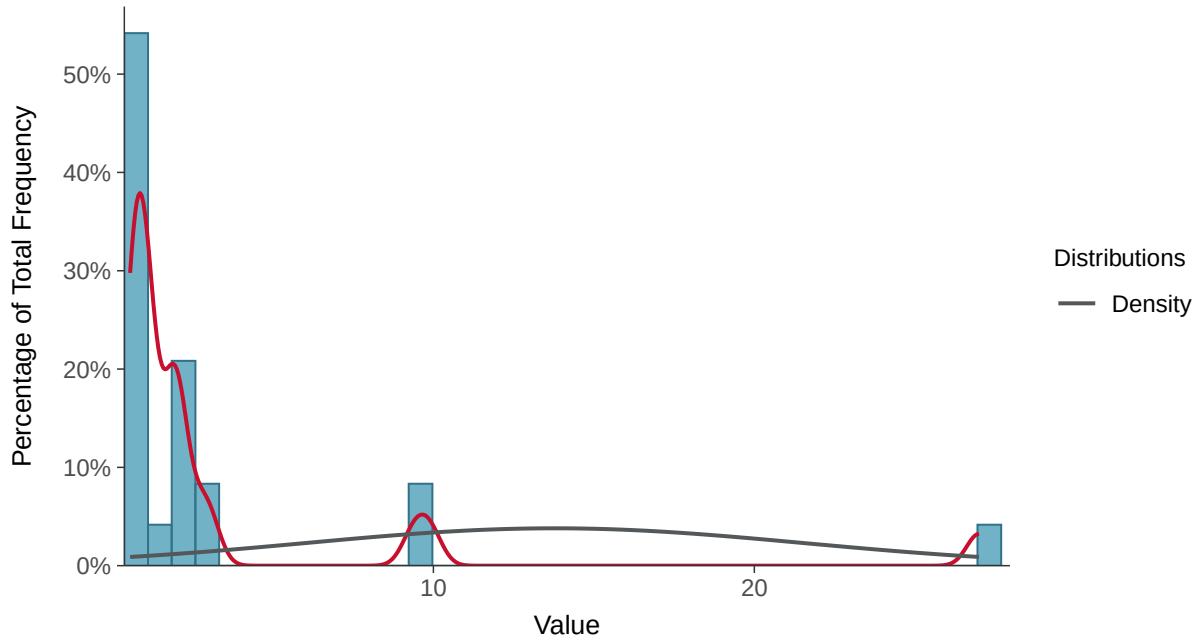
Scatter Plot

Arsenic, MW-15023 (ug/L)



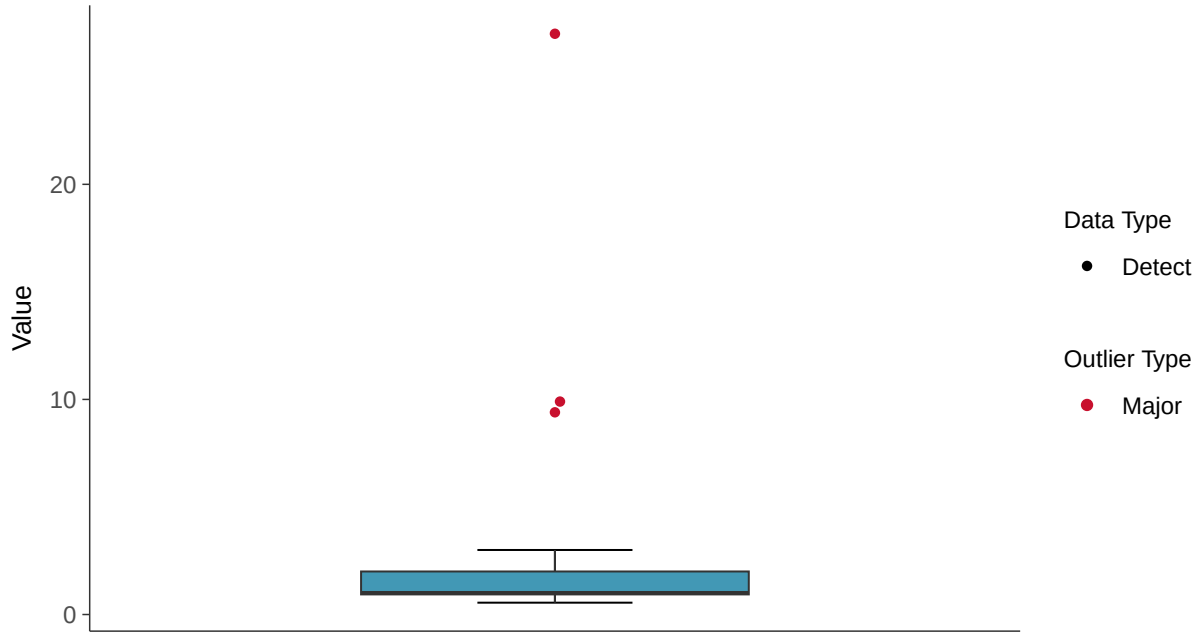
Histogram

Arsenic, MW-15023 (ug/L)



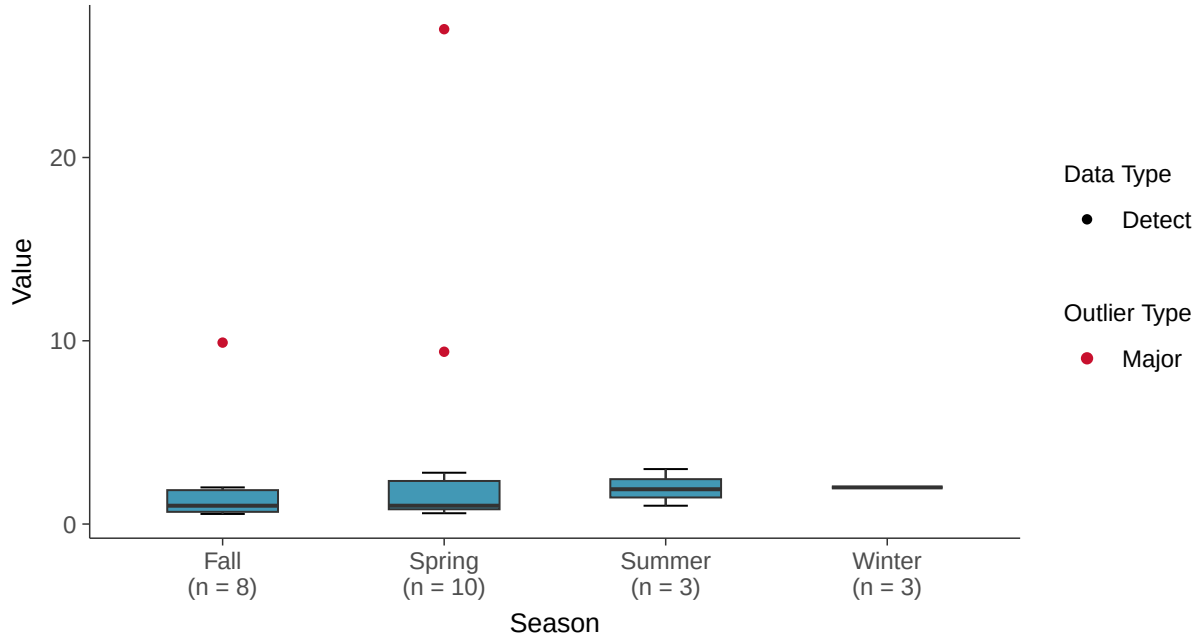
Boxplot

Arsenic, MW-15023 (ug/L)



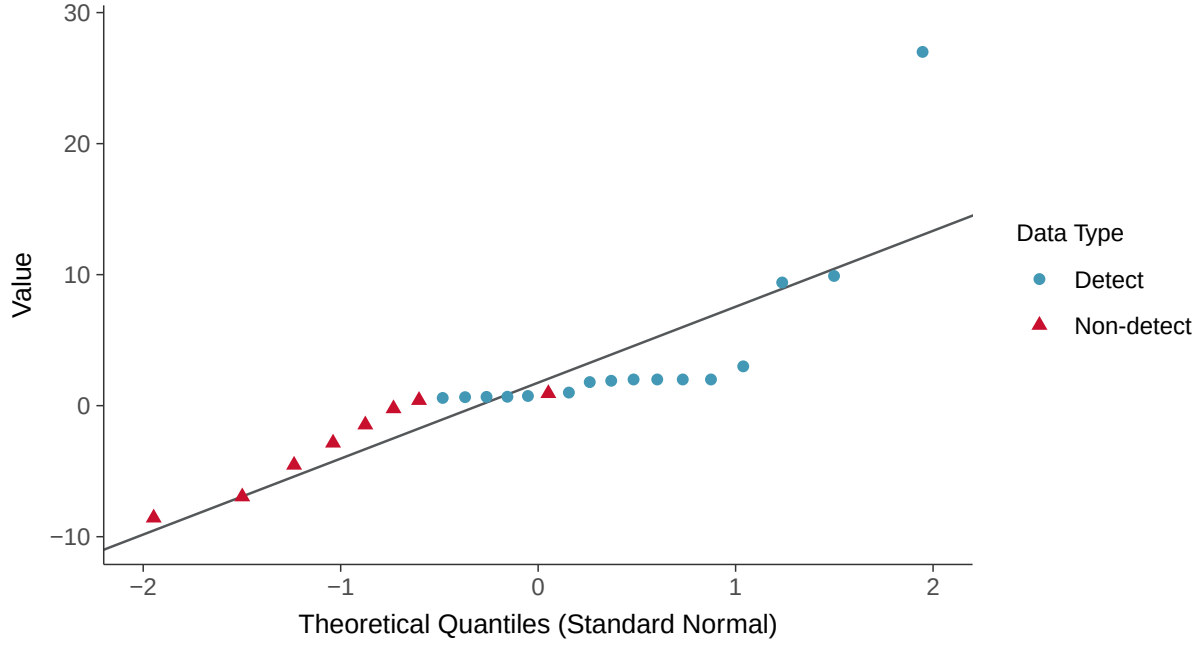
Boxplot by Season

Arsenic, MW-15023 (ug/L)



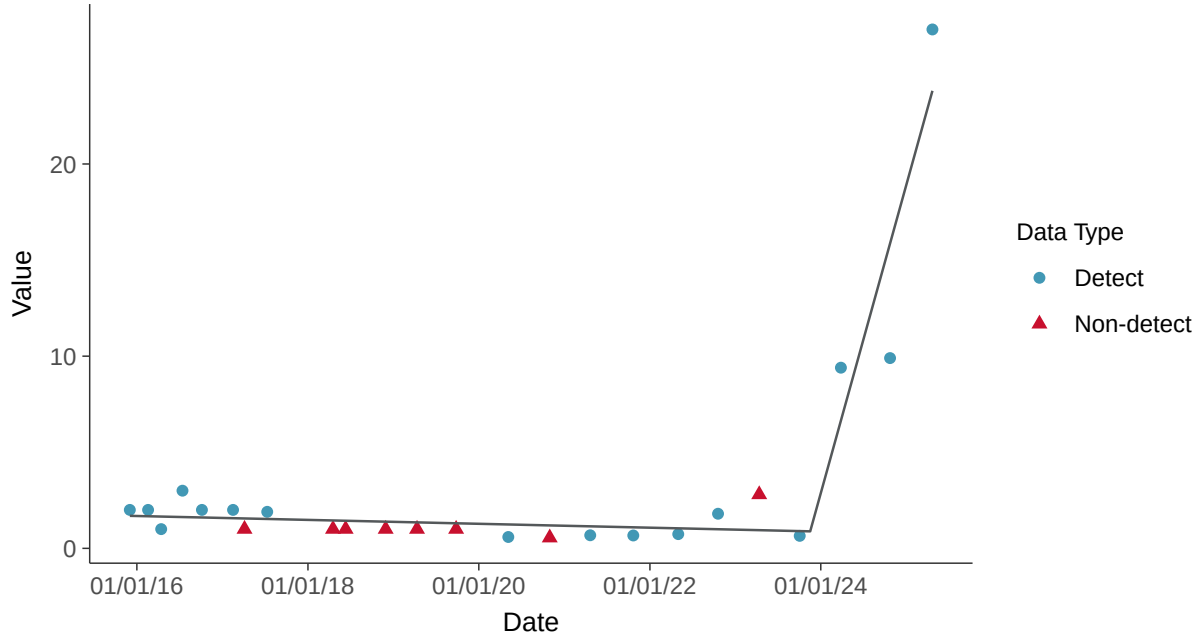
Normal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-15023 (ug/L)



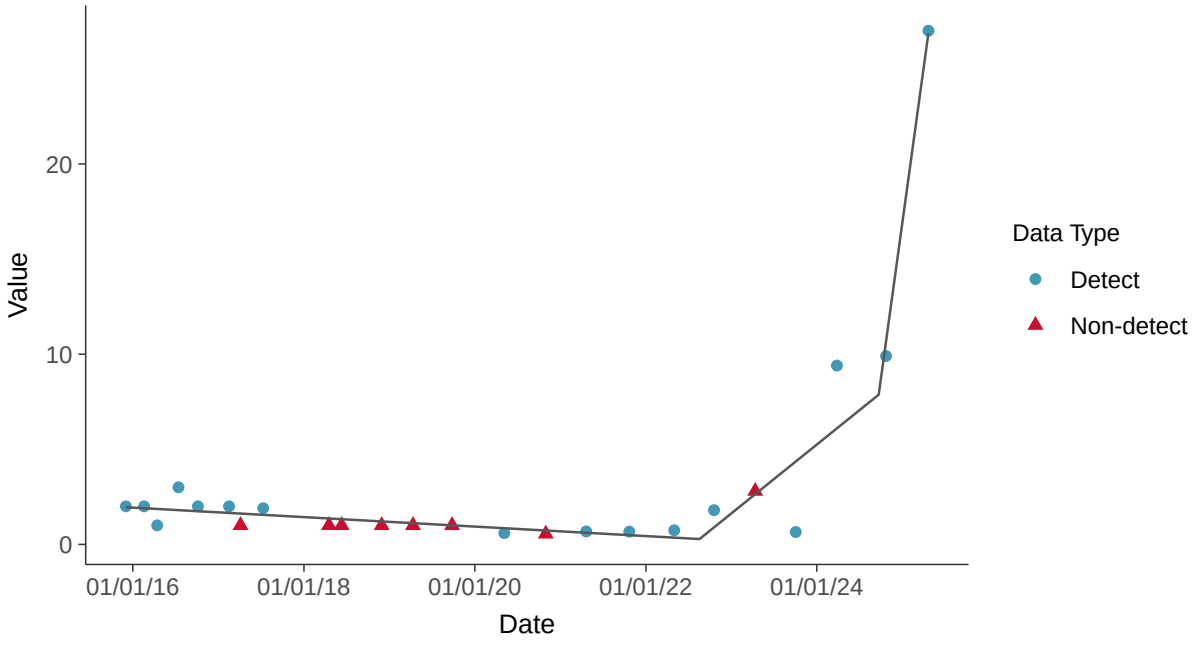
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-15023 (ug/L)



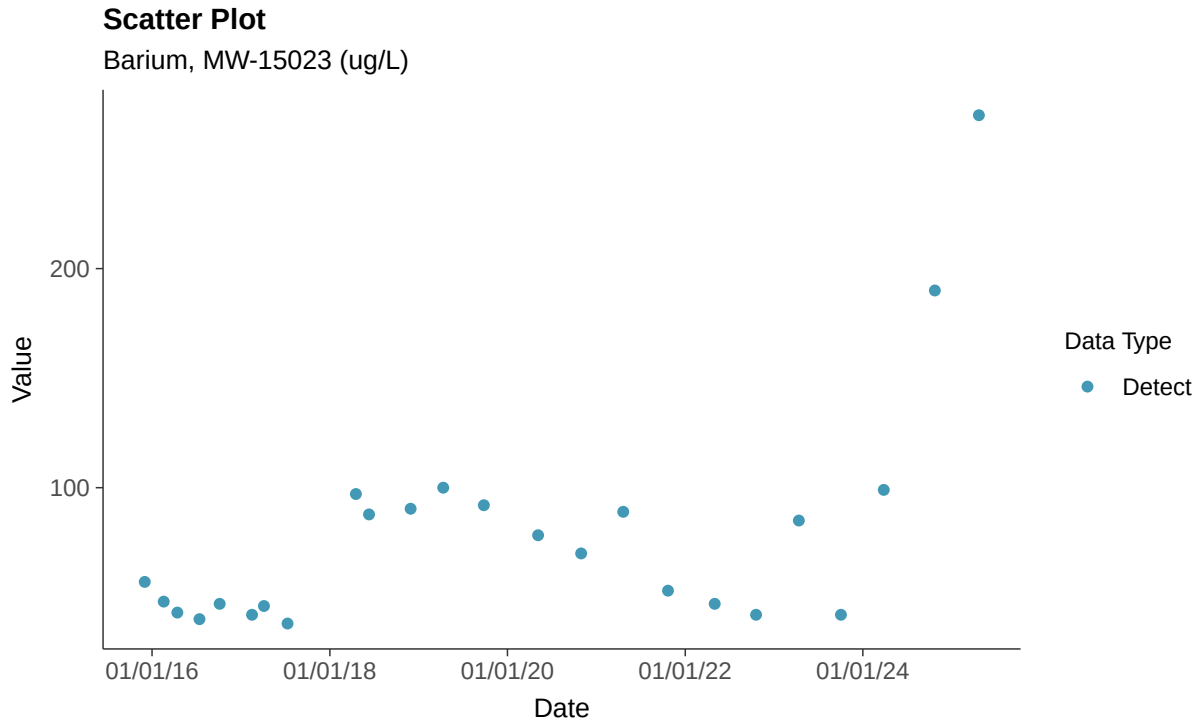
Trend Regression: Piecewise Linear-Linear-Linear

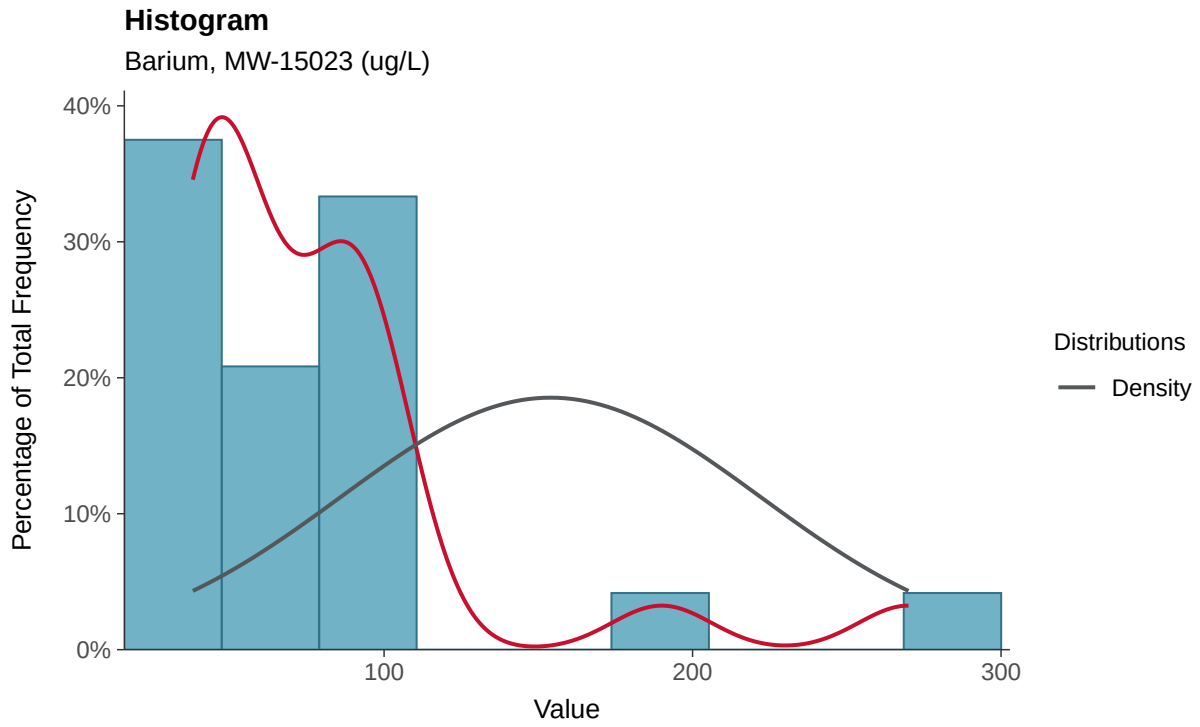
Arsenic, MW-15023 (ug/L)



Appendix IV: Barium, MW-15023

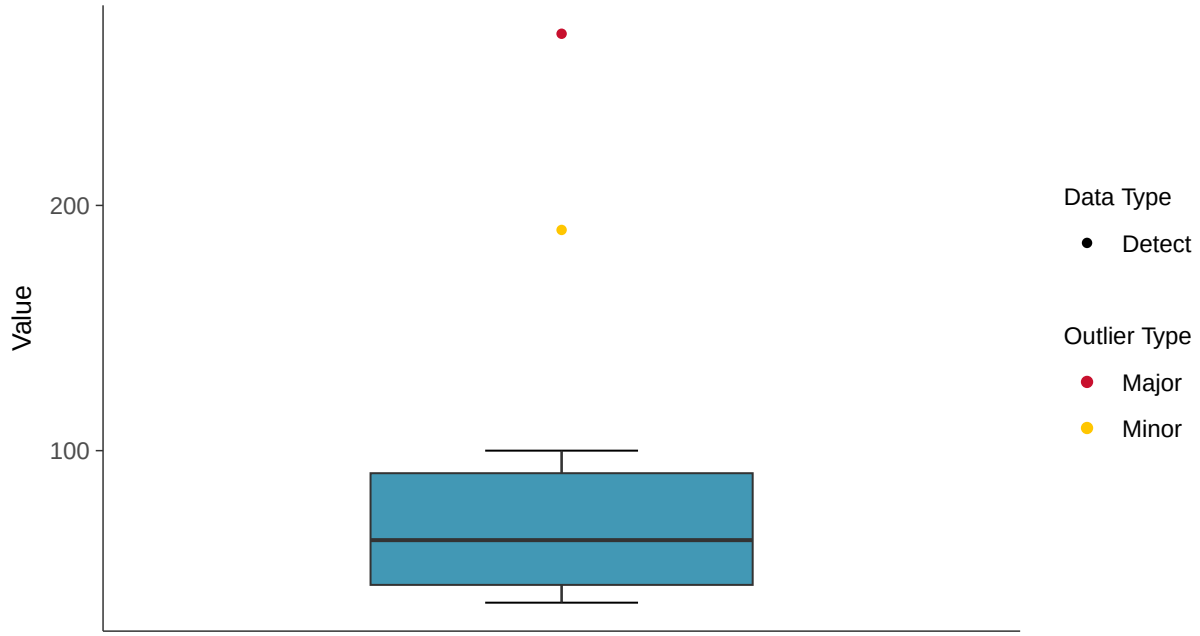
ID: 13_2_103





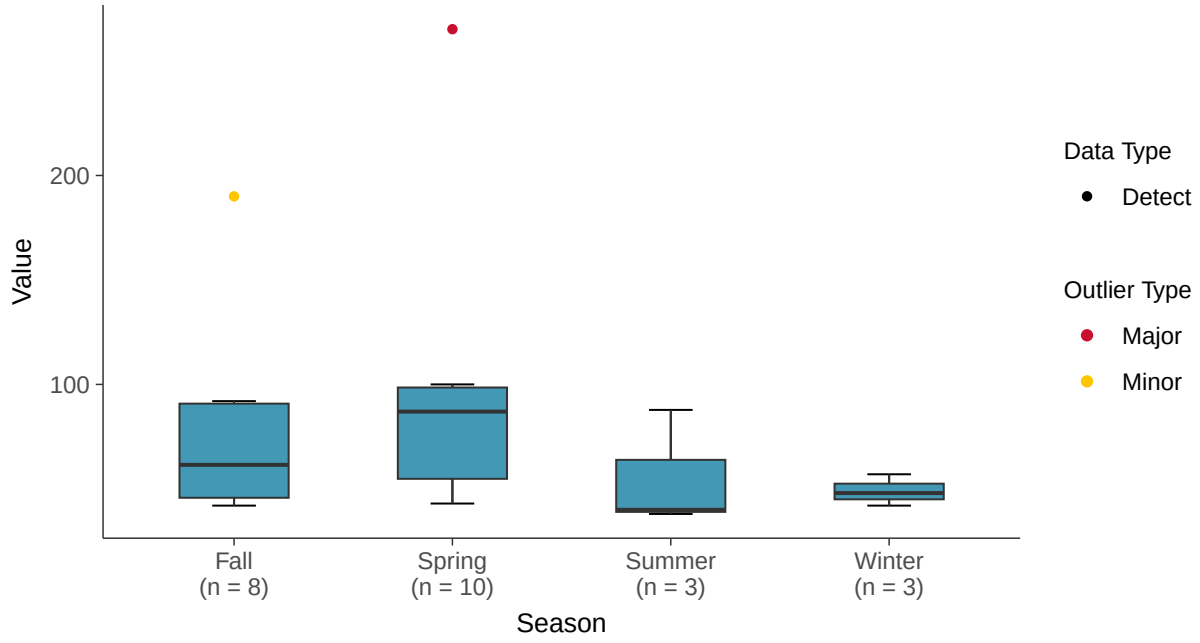
Boxplot

Barium, MW-15023 (ug/L)



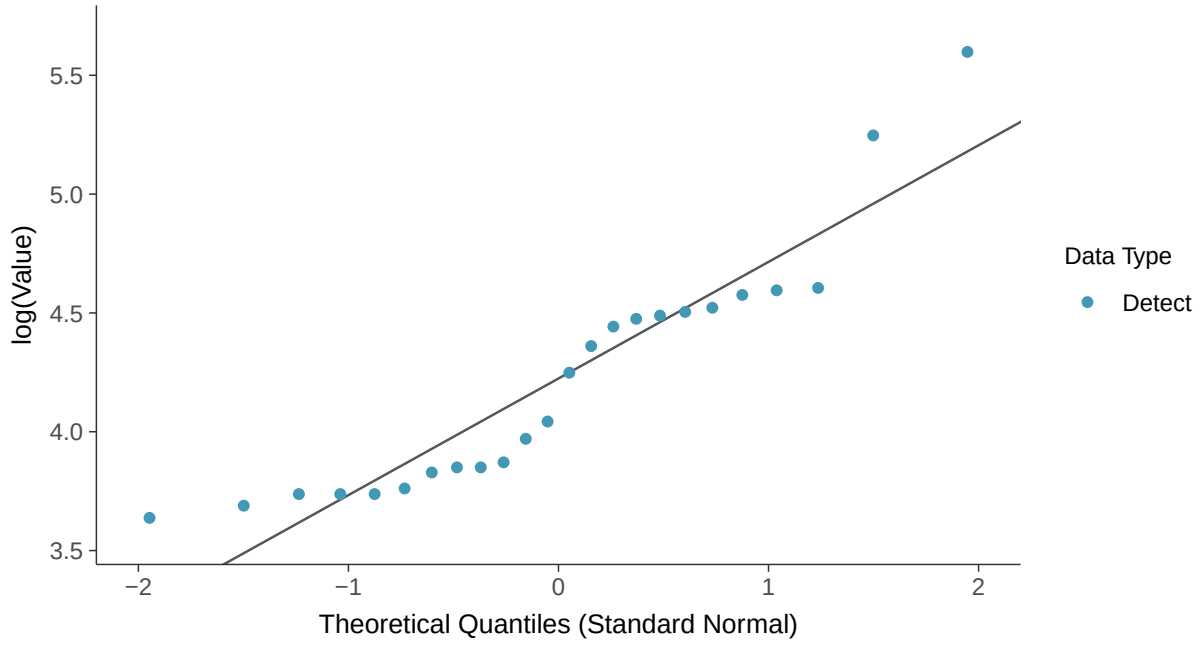
Boxplot by Season

Barium, MW-15023 (ug/L)



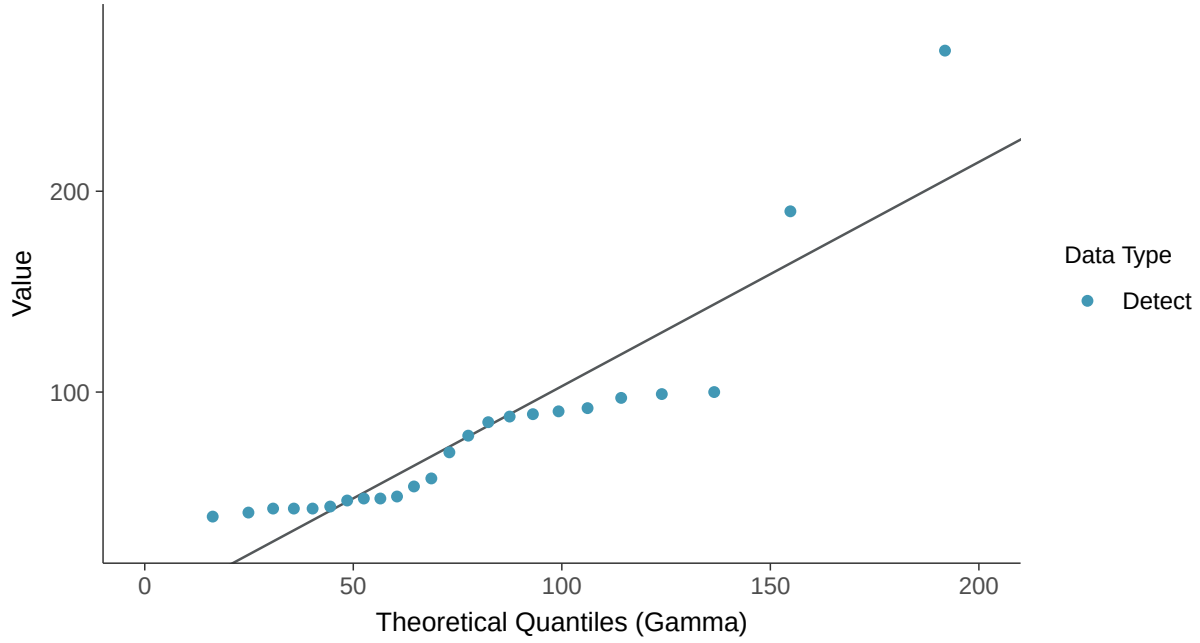
Lognormal Q-Q plot

Barium, MW-15023 (ug/L)



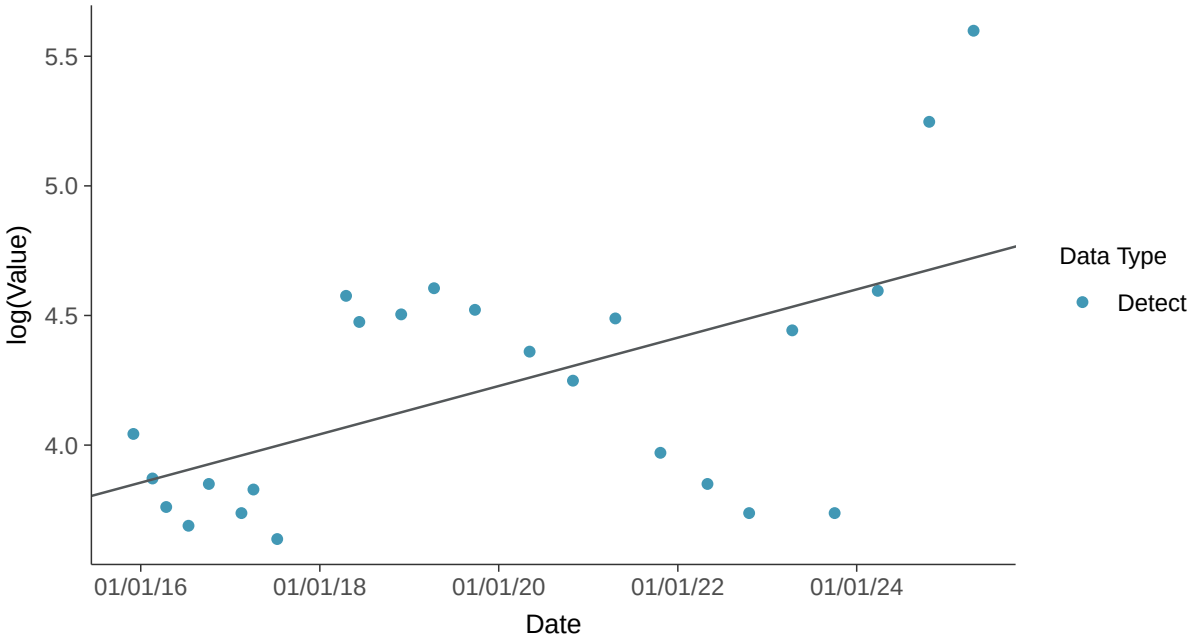
Gamma Q-Q plot

Barium, MW-15023 (ug/L)



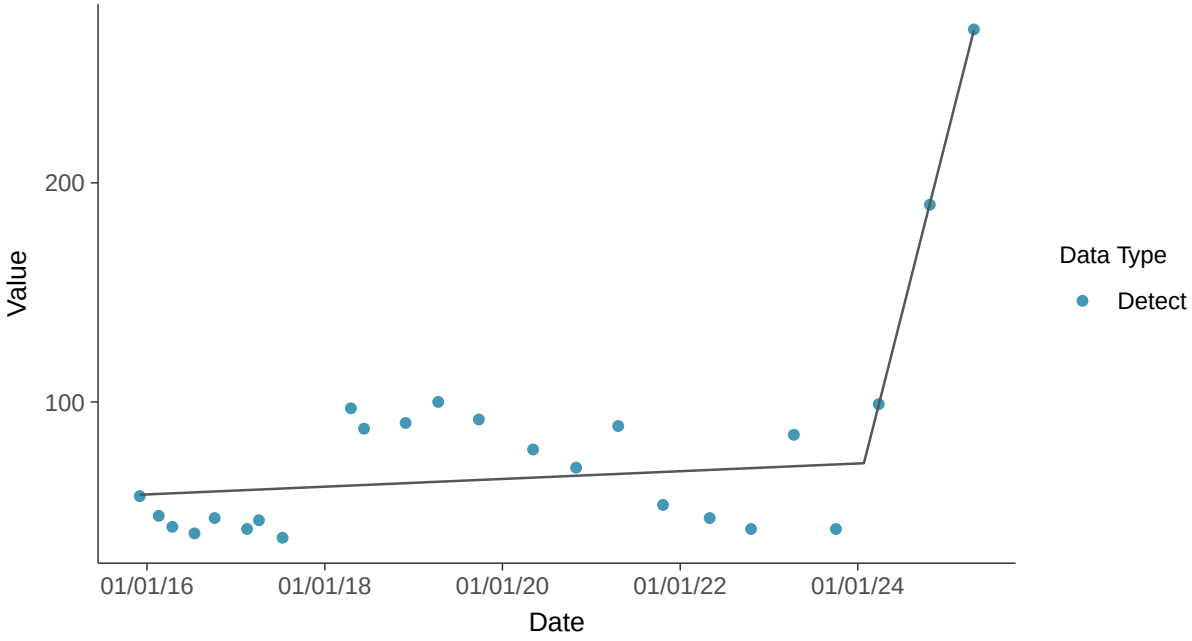
Trend Regression: Lognormal MLE

Barium, MW-15023 (ug/L)



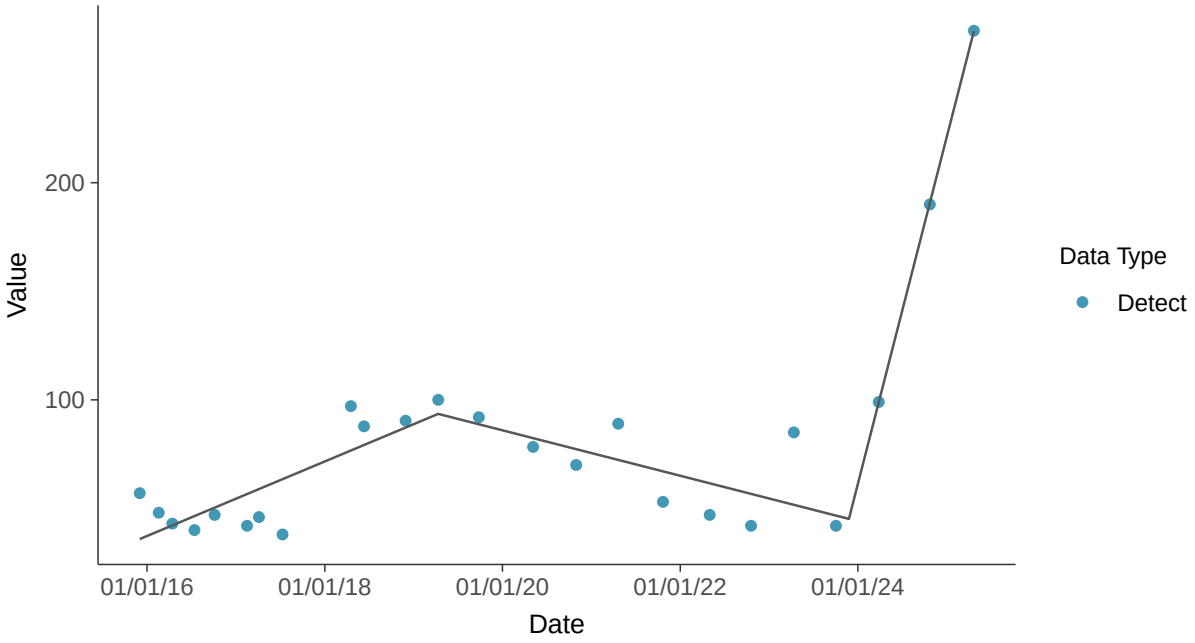
Trend Regression: Piecewise Linear-Linear

Barium, MW-15023 (ug/L)



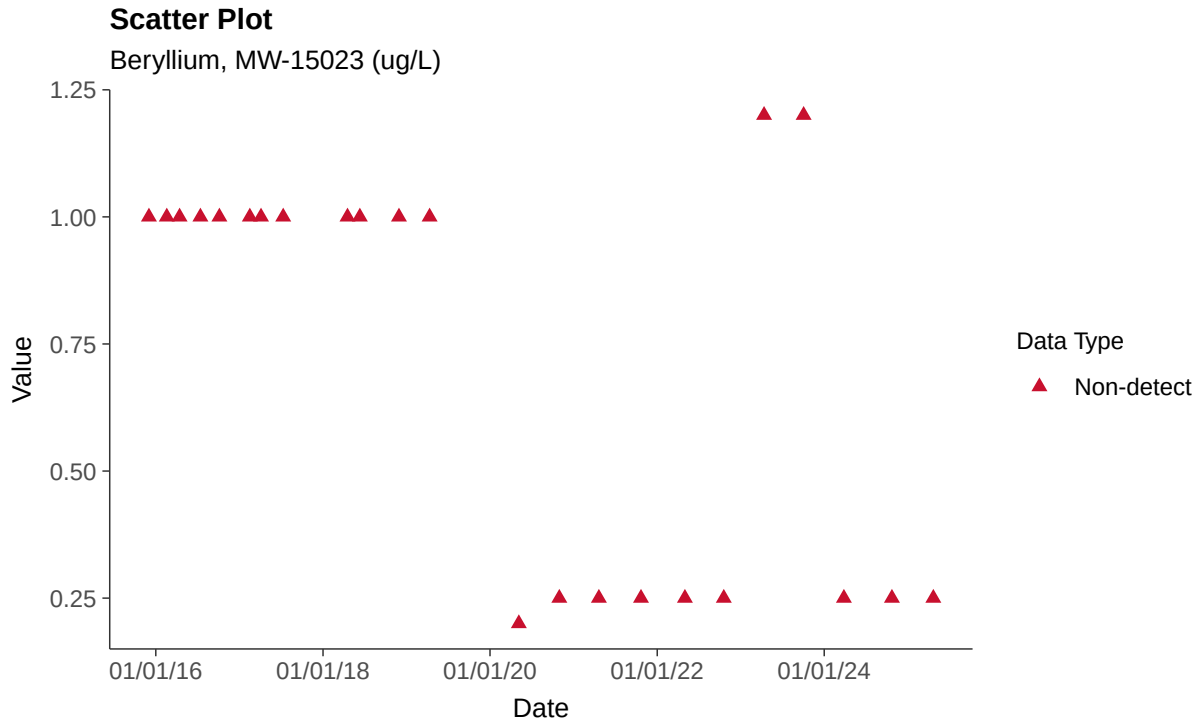
Trend Regression: Piecewise Linear-Linear-Linear

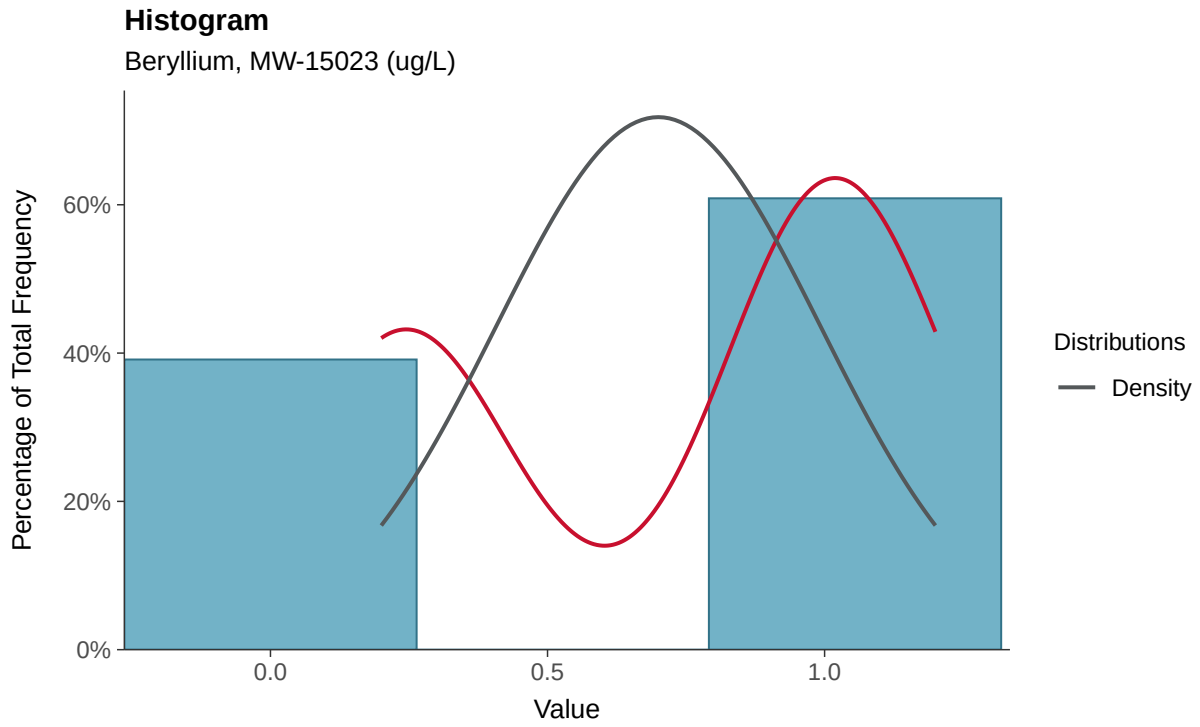
Barium, MW-15023 (ug/L)



Appendix IV: Beryllium, MW-15023

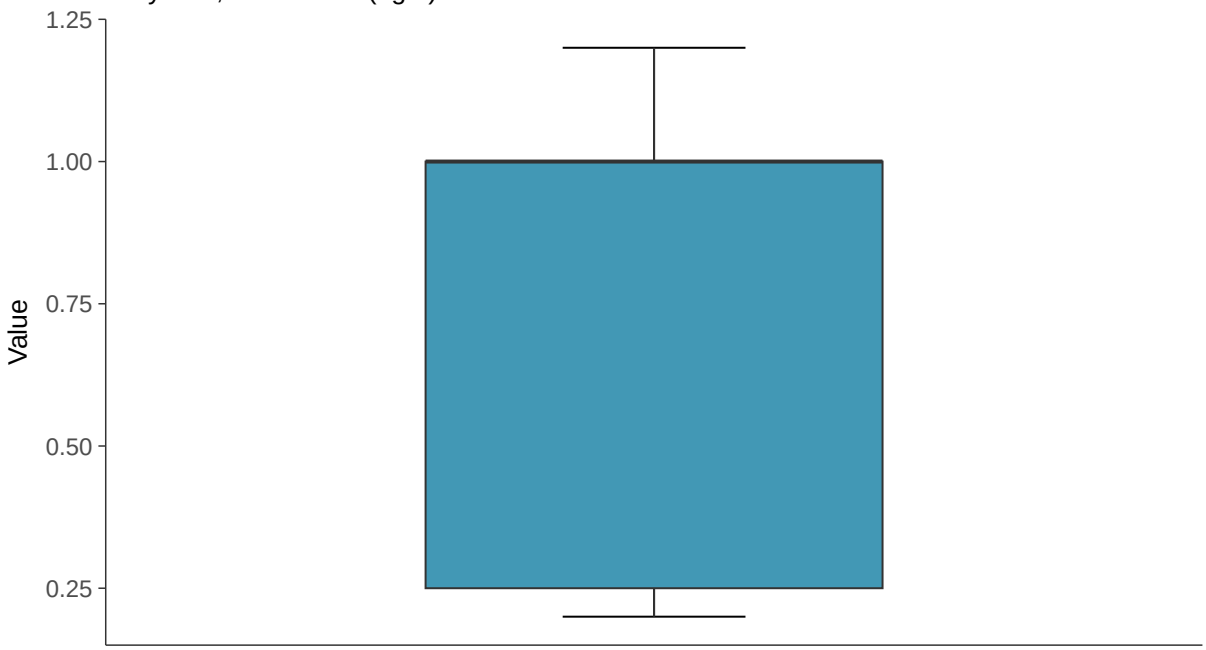
ID: 13_2_104





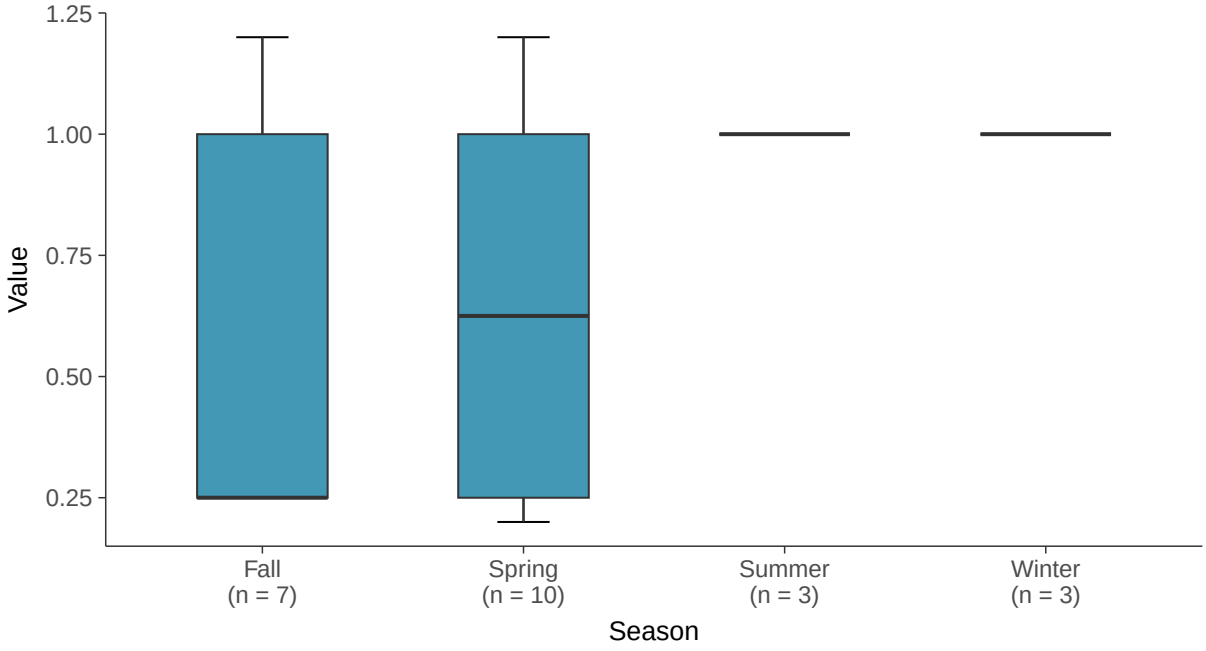
Boxplot

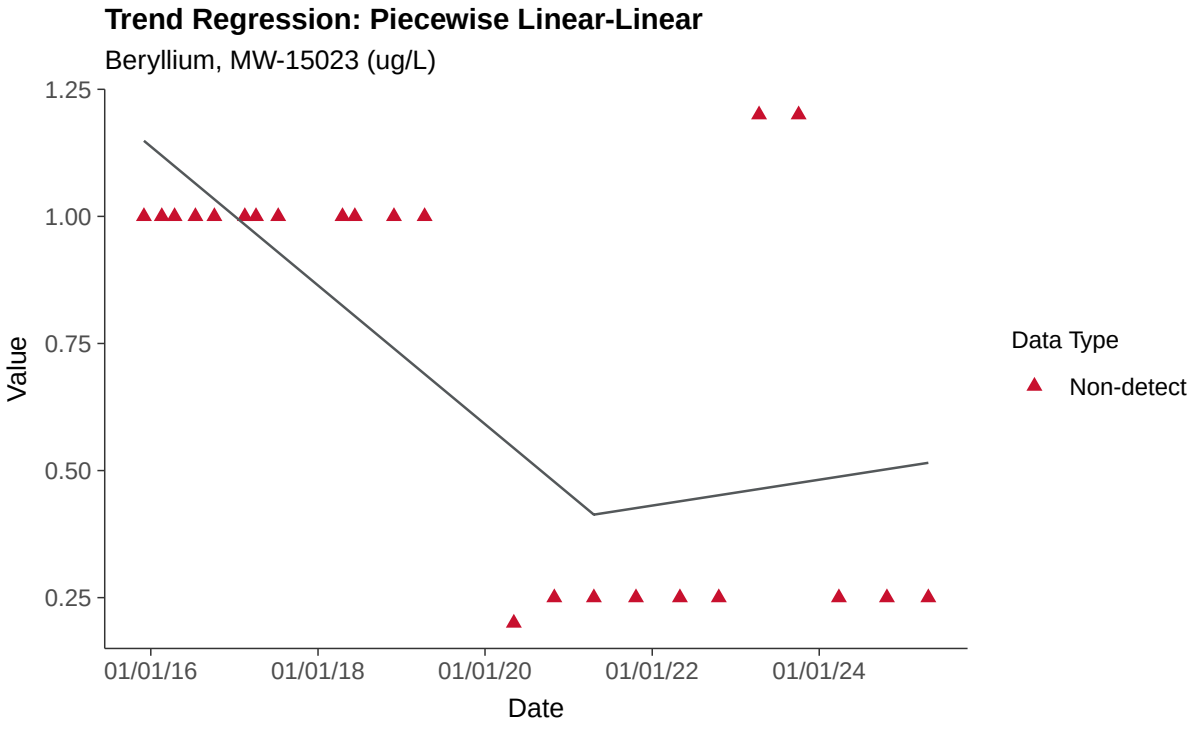
Beryllium, MW-15023 (ug/L)



Boxplot by Season

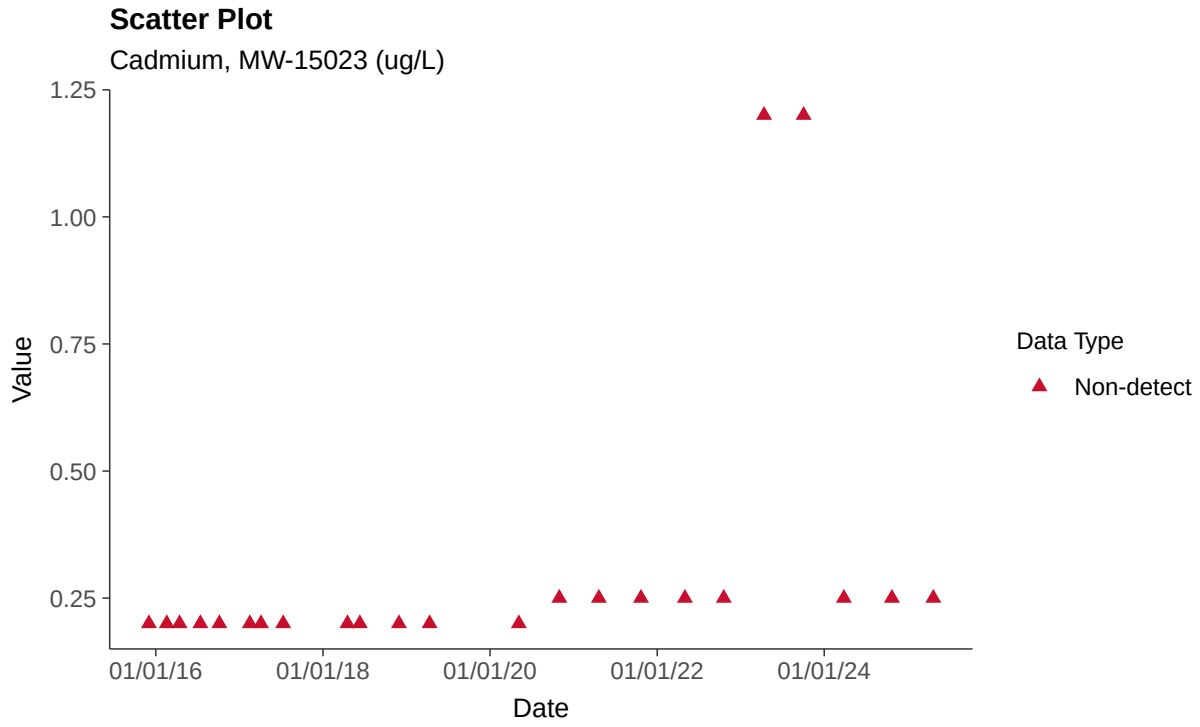
Beryllium, MW-15023 (ug/L)

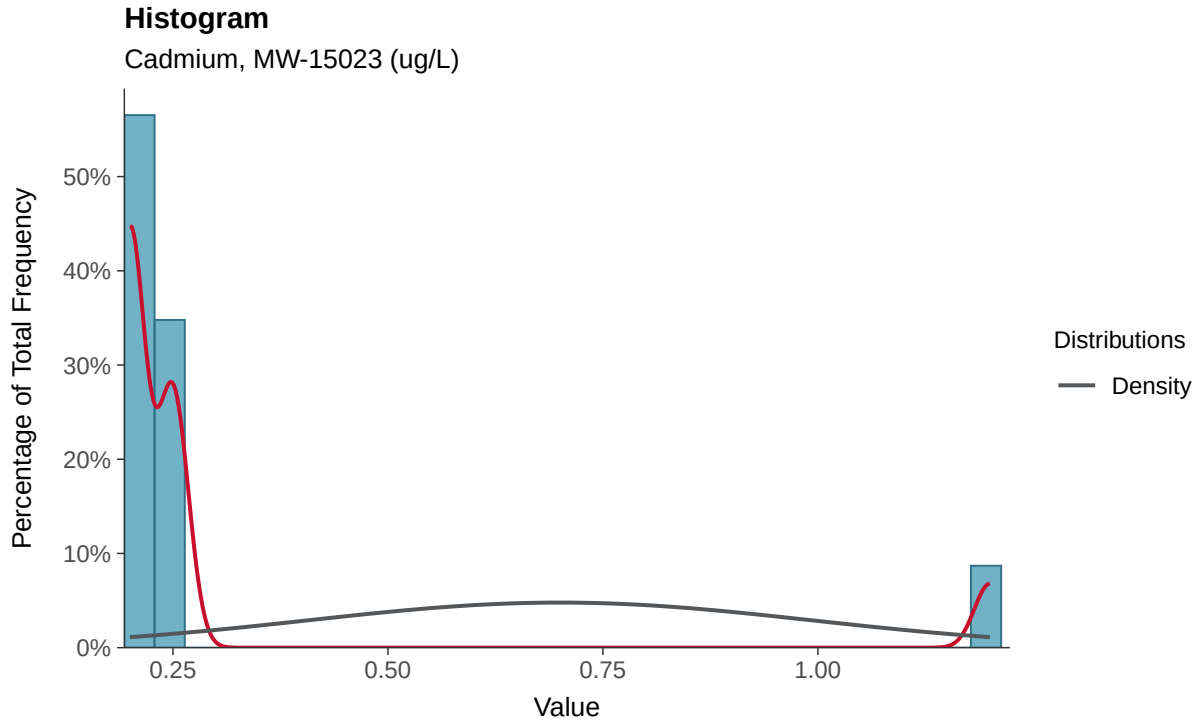



Trend Regression: Piecewise Linear-Linear
Beryllium, MW-15023 (ug/L)
1.25
1.00
0.75
0.50
0.25
Value
01/01/16
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Non-detect

Appendix IV: Cadmium, MW-15023

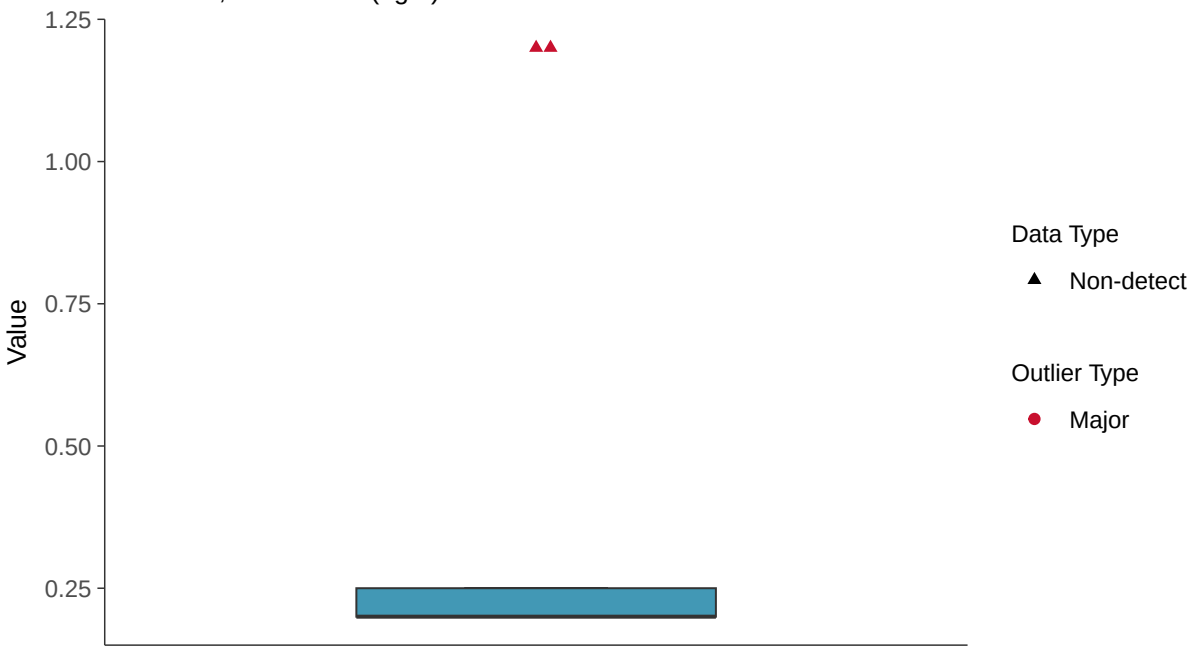
ID: 13_2_106





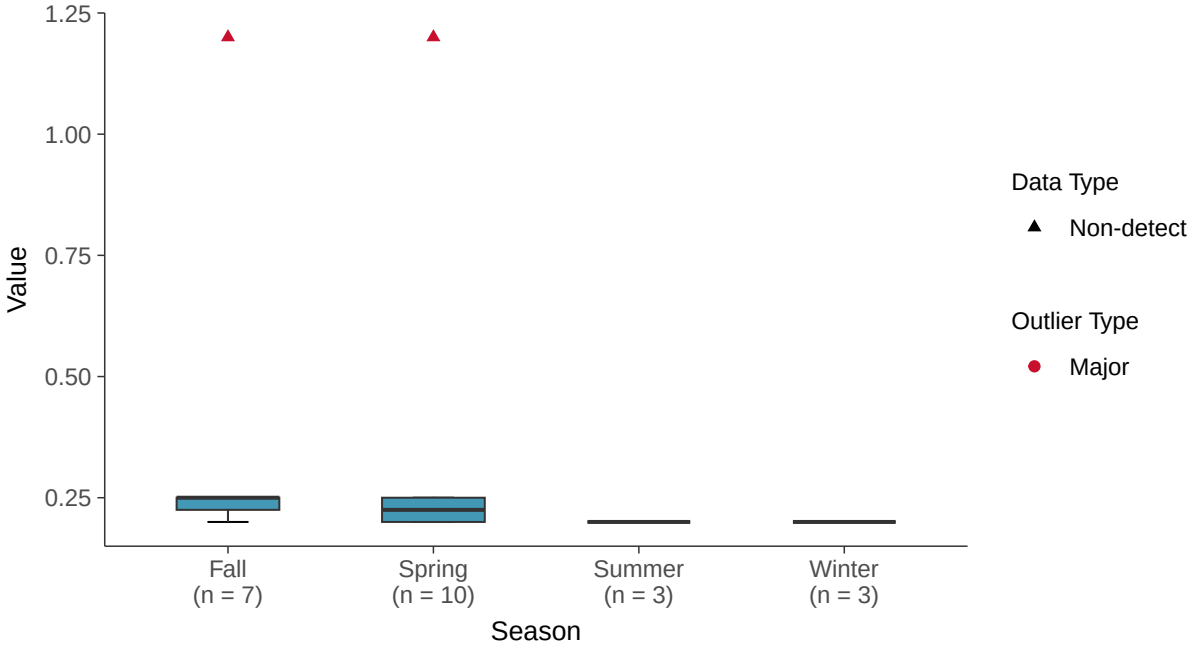
Boxplot

Cadmium, MW-15023 (ug/L)



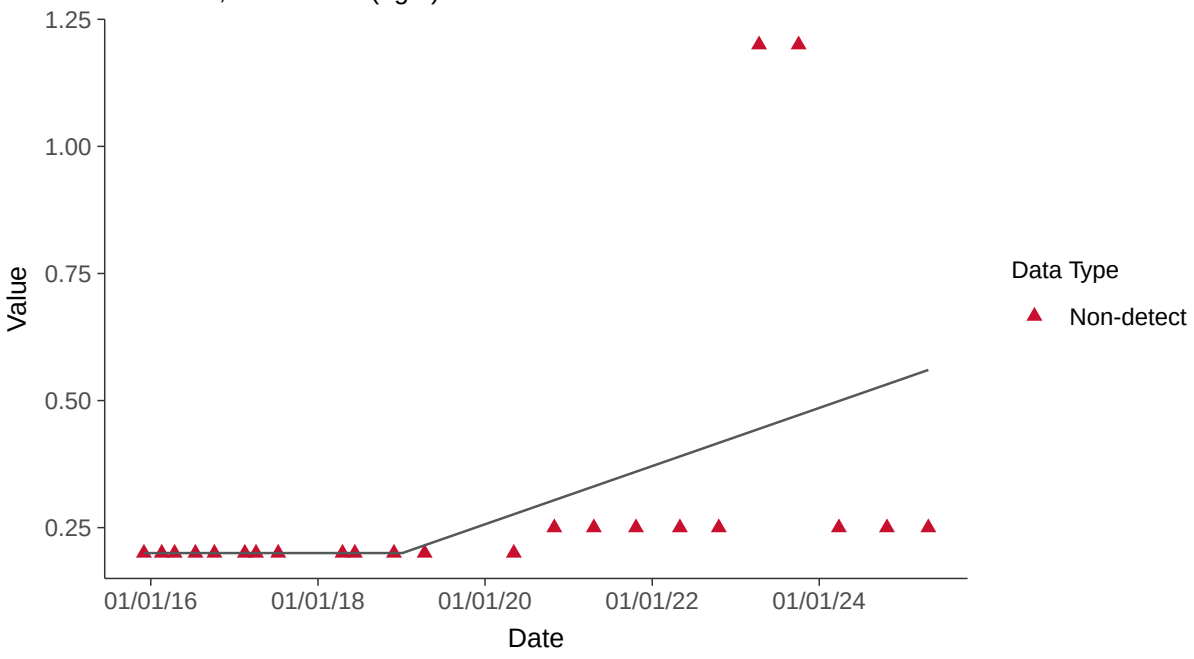
Boxplot by Season

Cadmium, MW-15023 (ug/L)



Trend Regression: Piecewise Linear-Linear

Cadmium, MW-15023 (ug/L)

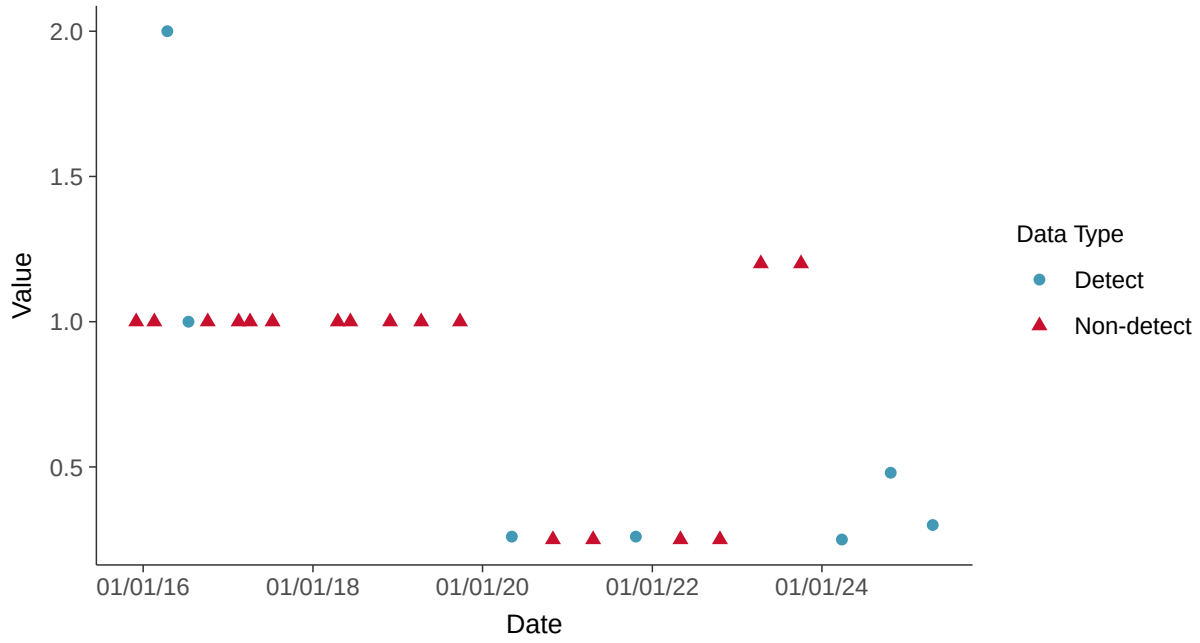


Appendix IV: Chromium, MW-15023

ID: 13_2_109

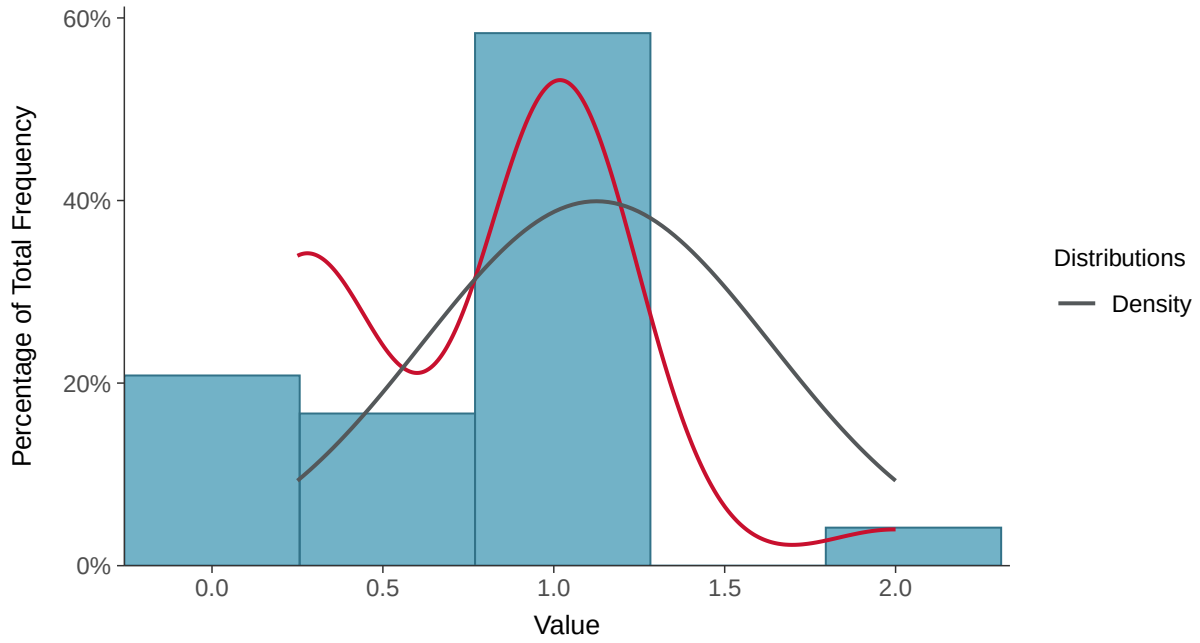
Scatter Plot

Chromium, MW-15023 (ug/L)



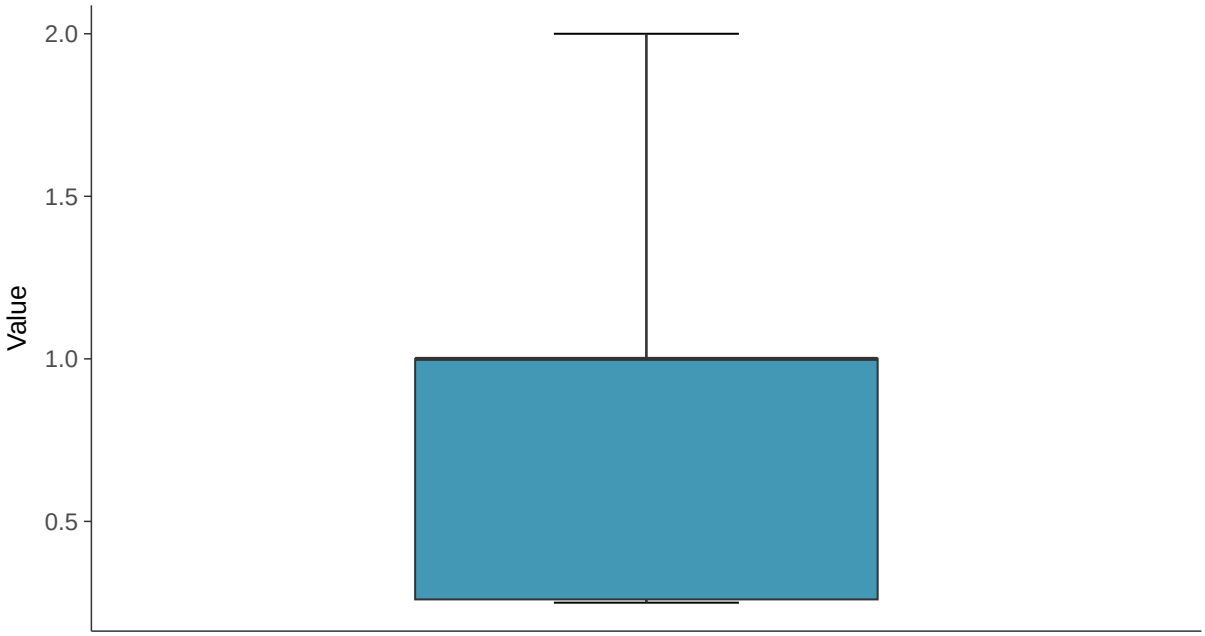
Histogram

Chromium, MW-15023 (ug/L)



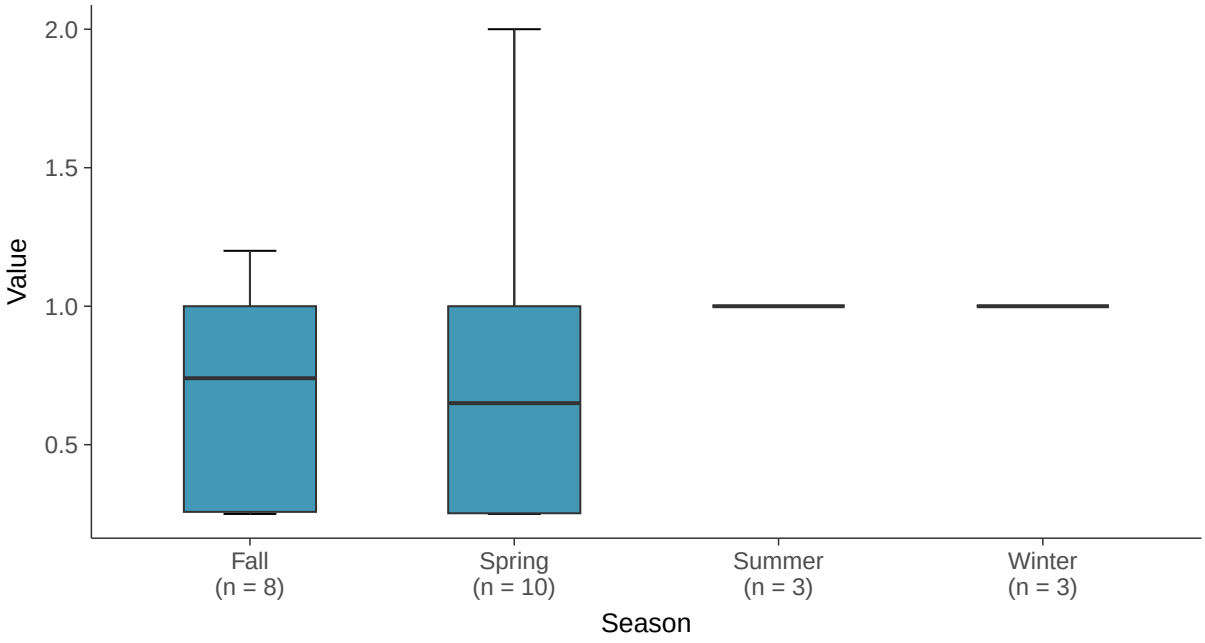
Boxplot

Chromium, MW-15023 (ug/L)



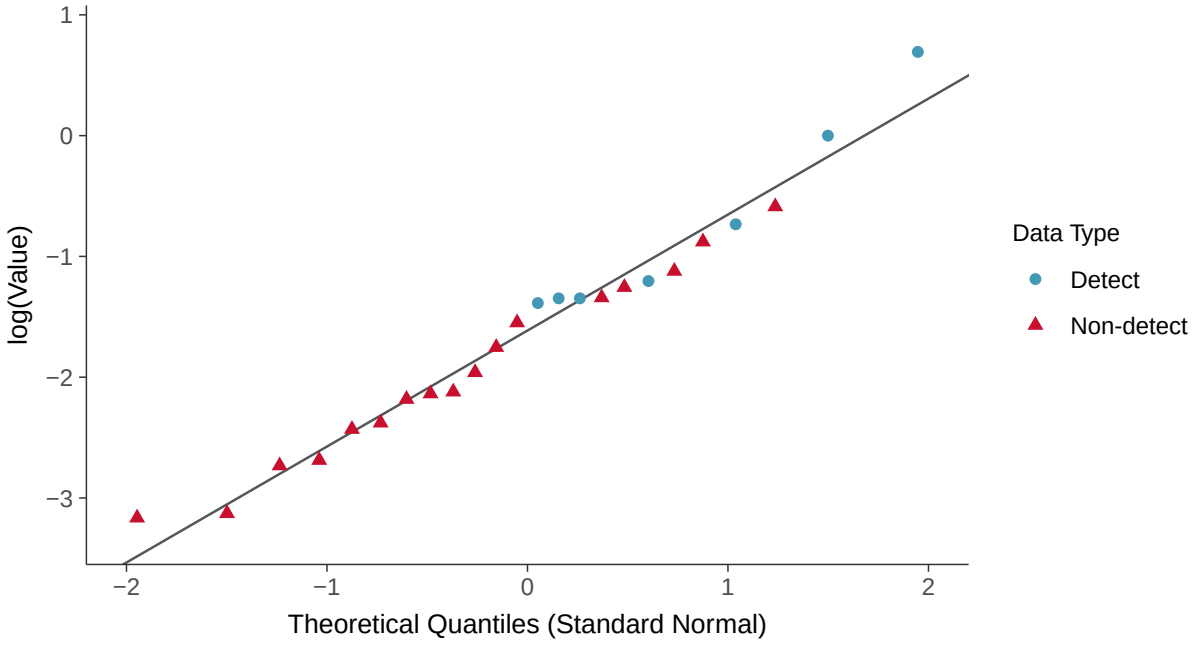
Boxplot by Season

Chromium, MW-15023 (ug/L)



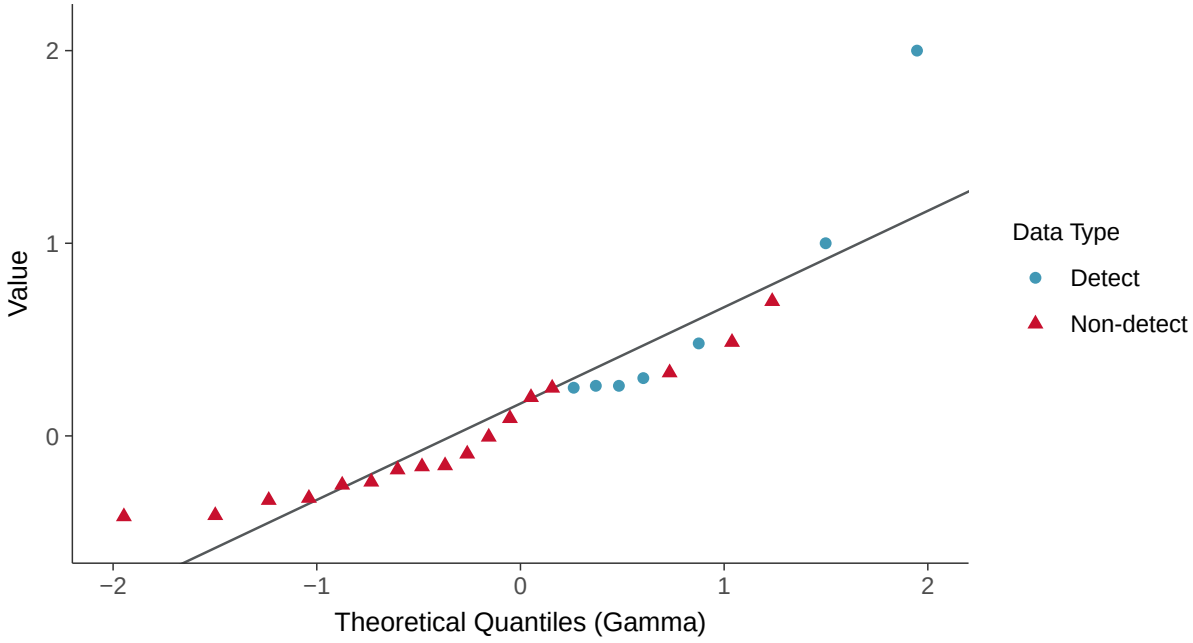
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-15023 (ug/L)



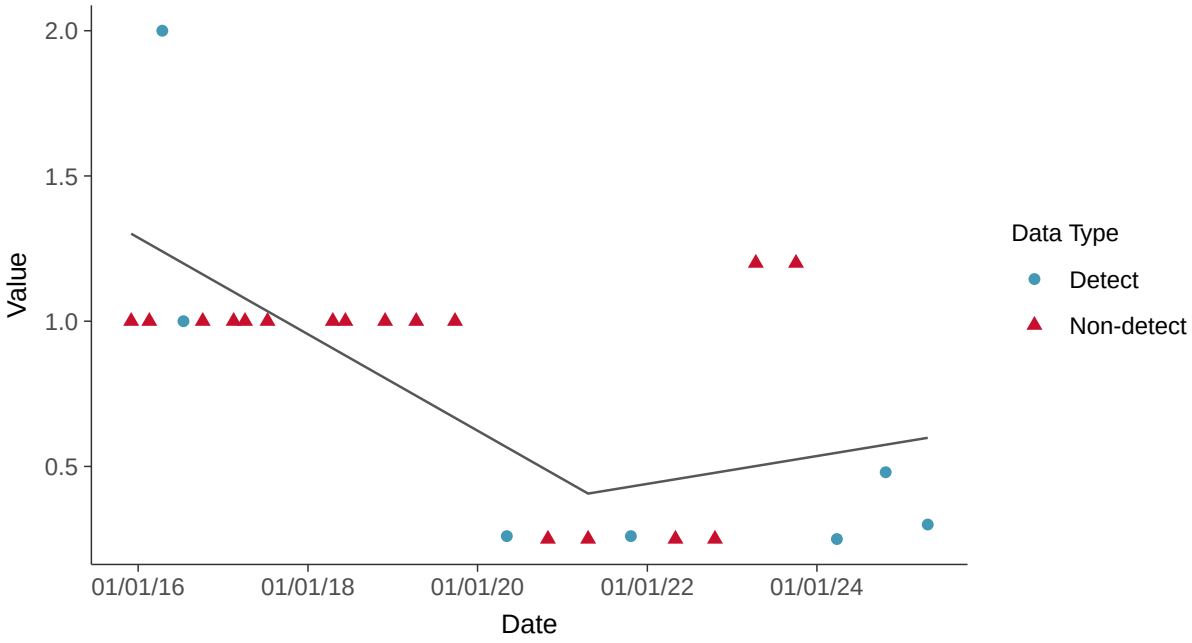
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, MW-15023 (ug/L)



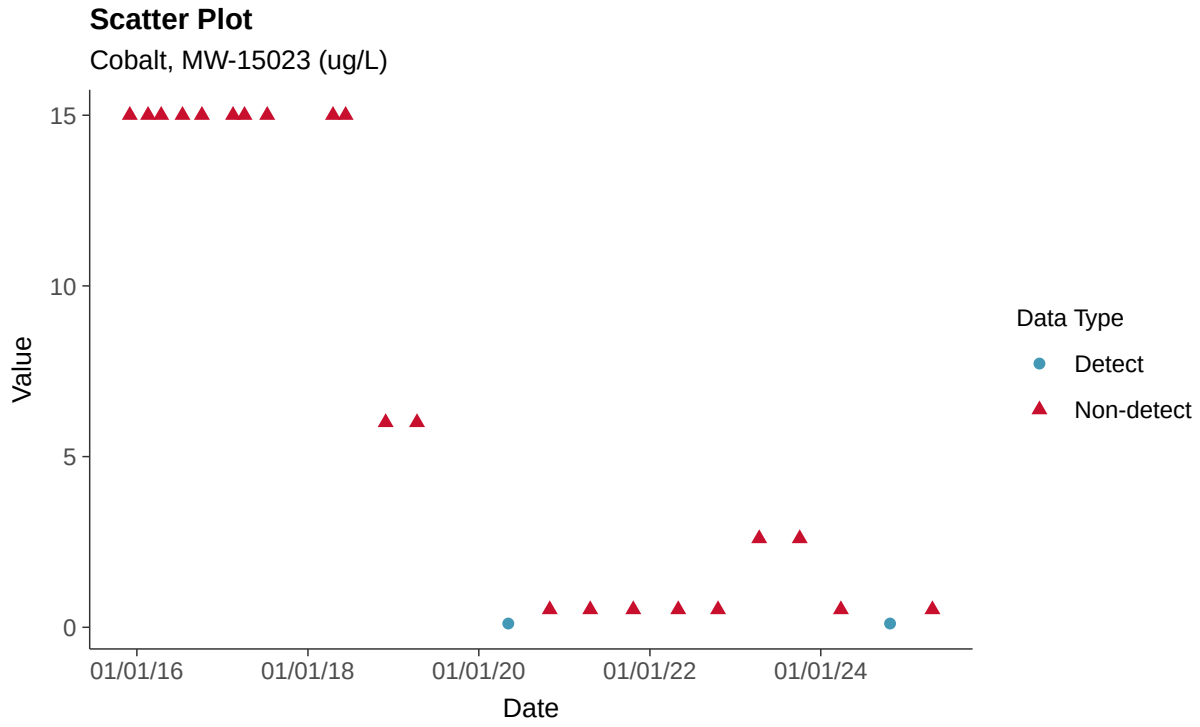
Trend Regression: Piecewise Linear-Linear

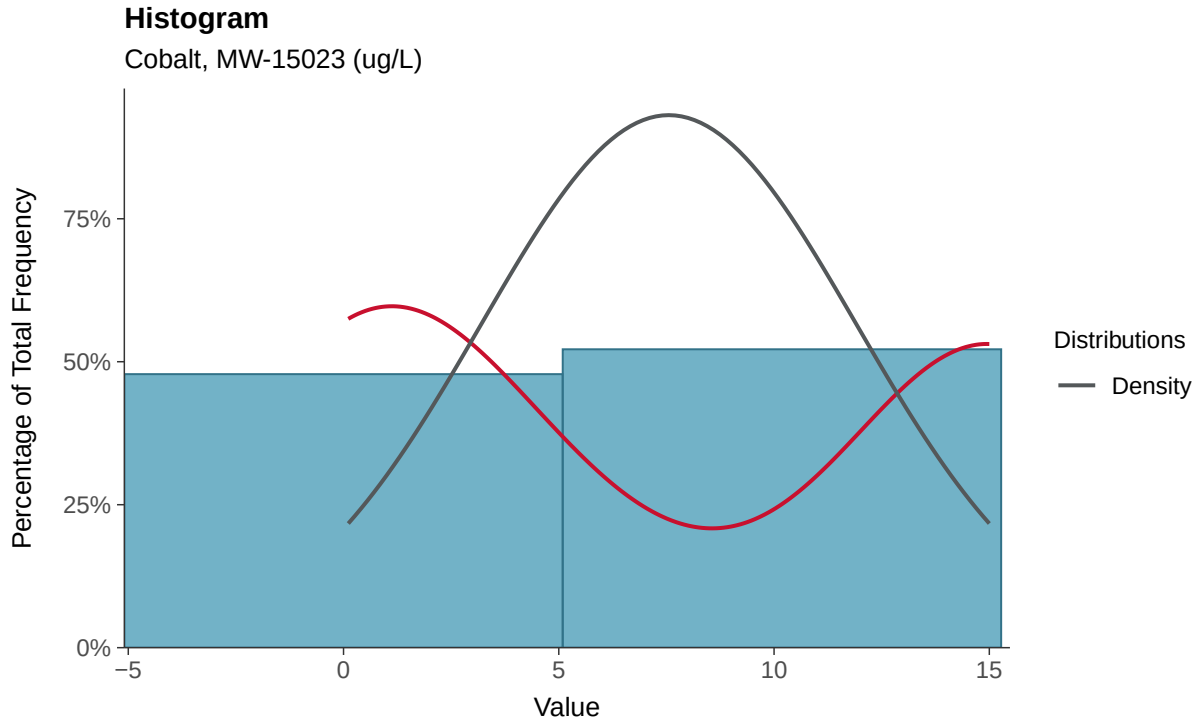
Chromium, MW-15023 (ug/L)



Appendix IV: Cobalt, MW-15023

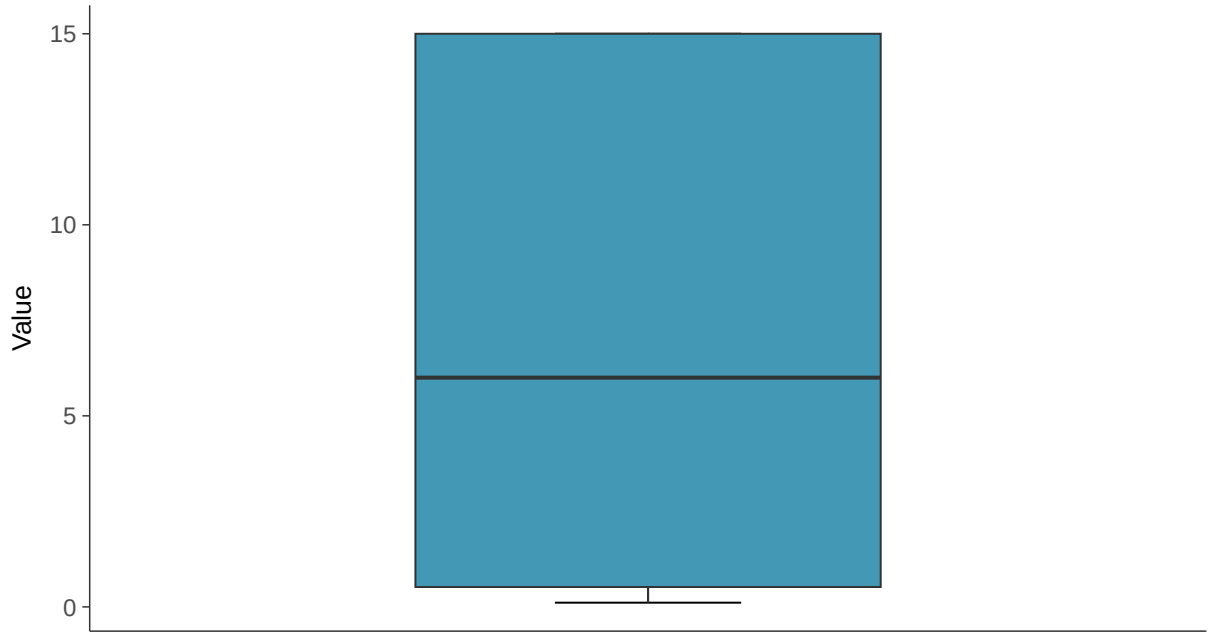
ID: 13_2_110





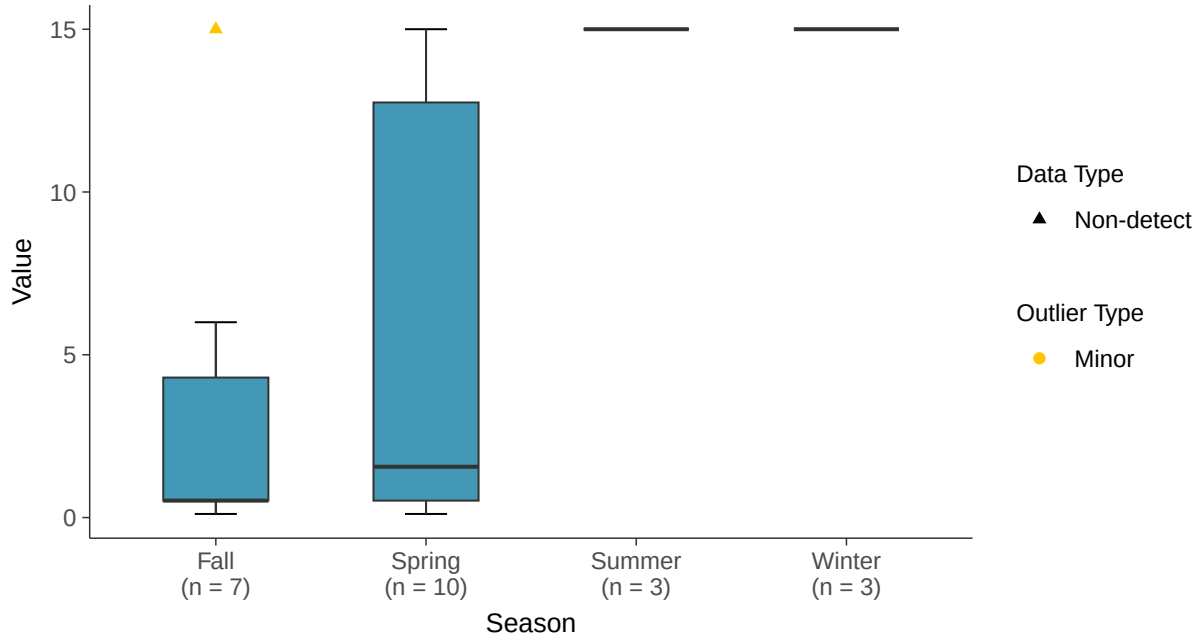
Boxplot

Cobalt, MW-15023 (ug/L)



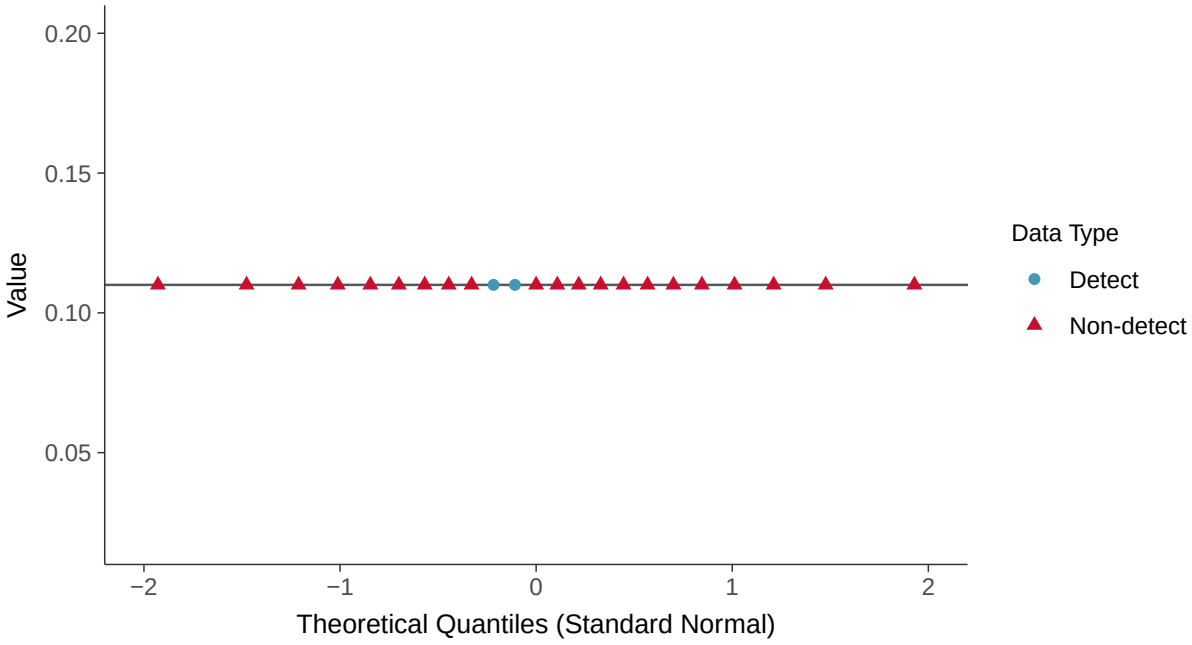
Boxplot by Season

Cobalt, MW-15023 (ug/L)



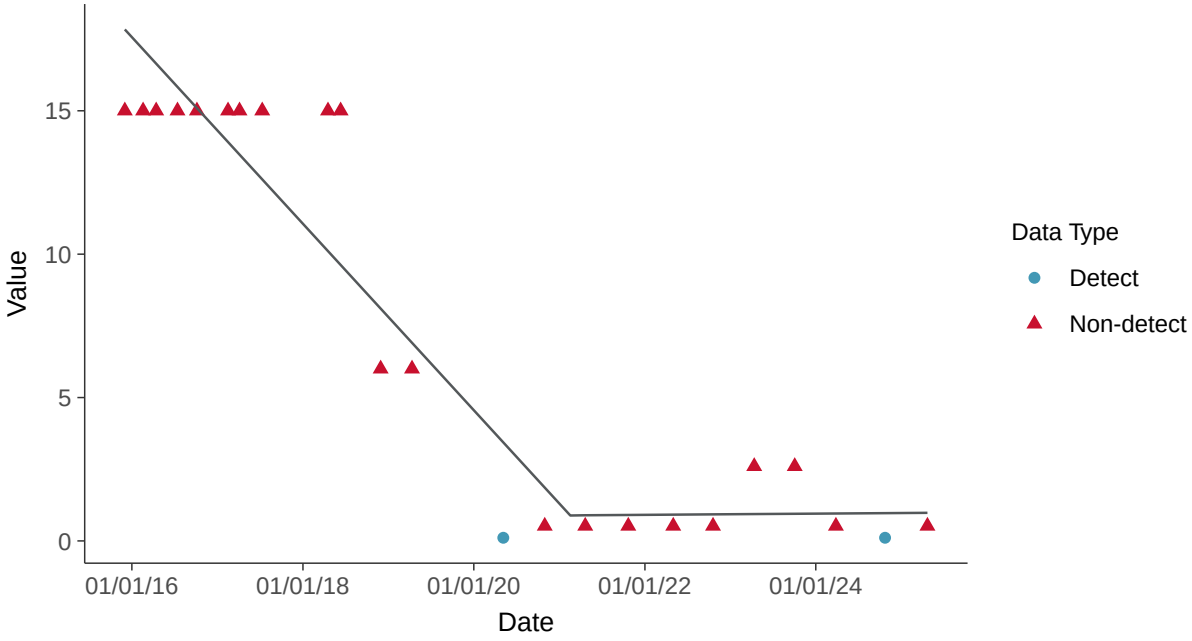
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-15023 (ug/L)



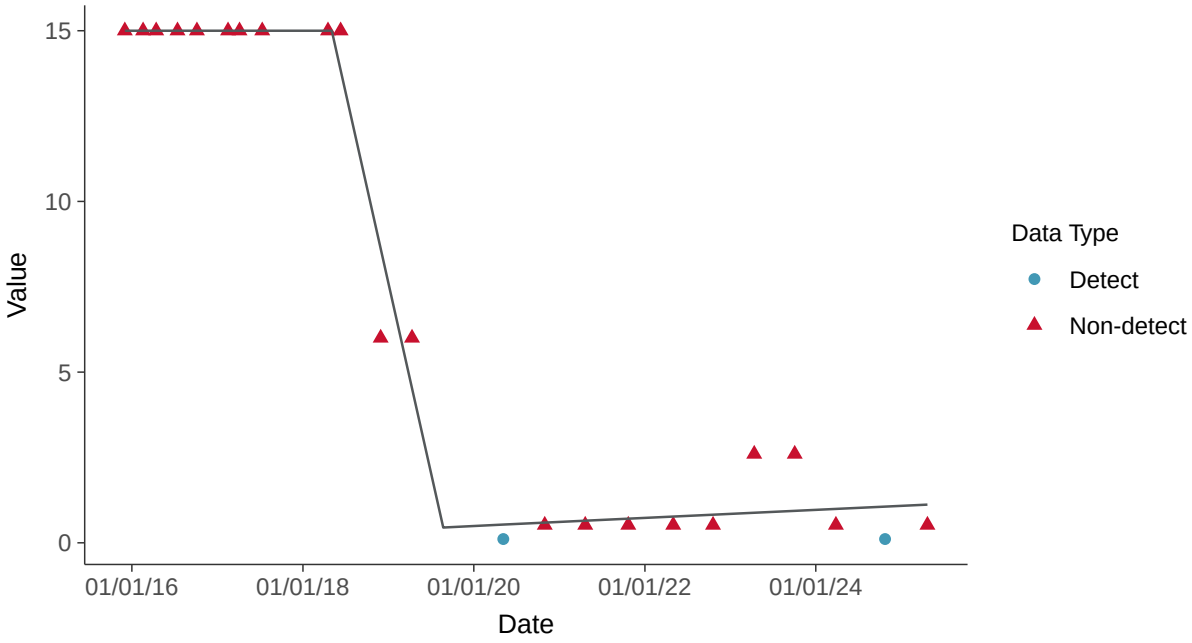
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-15023 (ug/L)



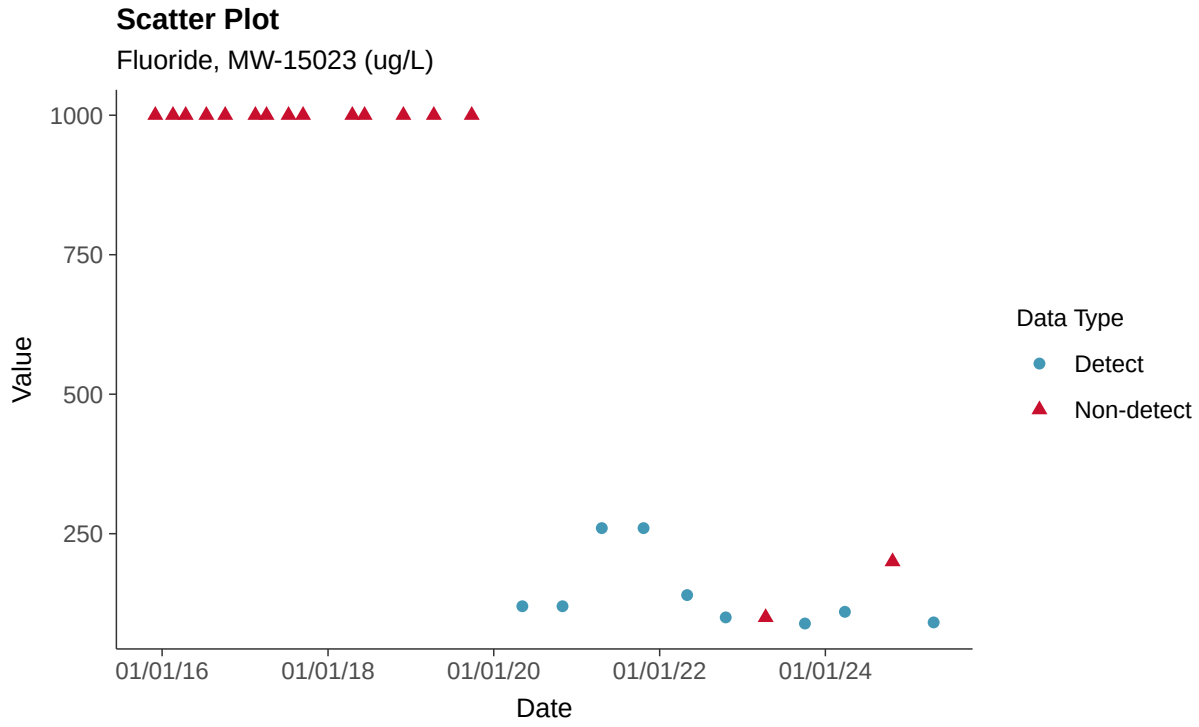
Trend Regression: Piecewise Linear-Linear-Linear

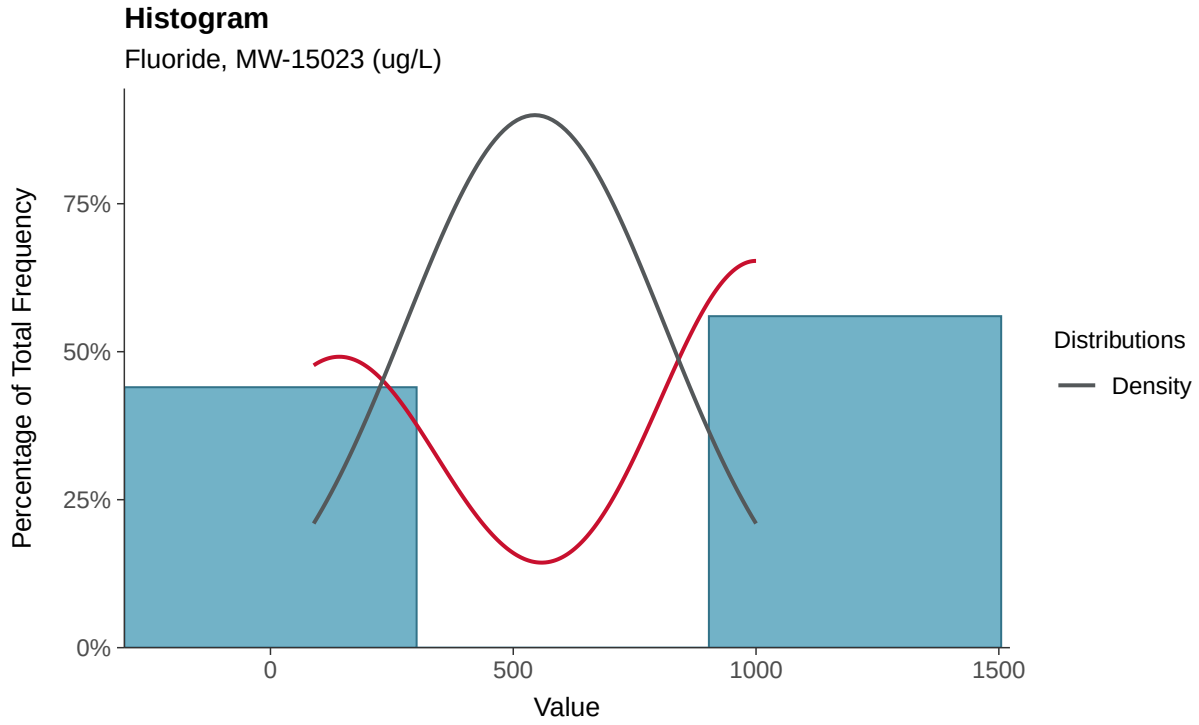
Cobalt, MW-15023 (ug/L)



Appendix IV: Fluoride, MW-15023

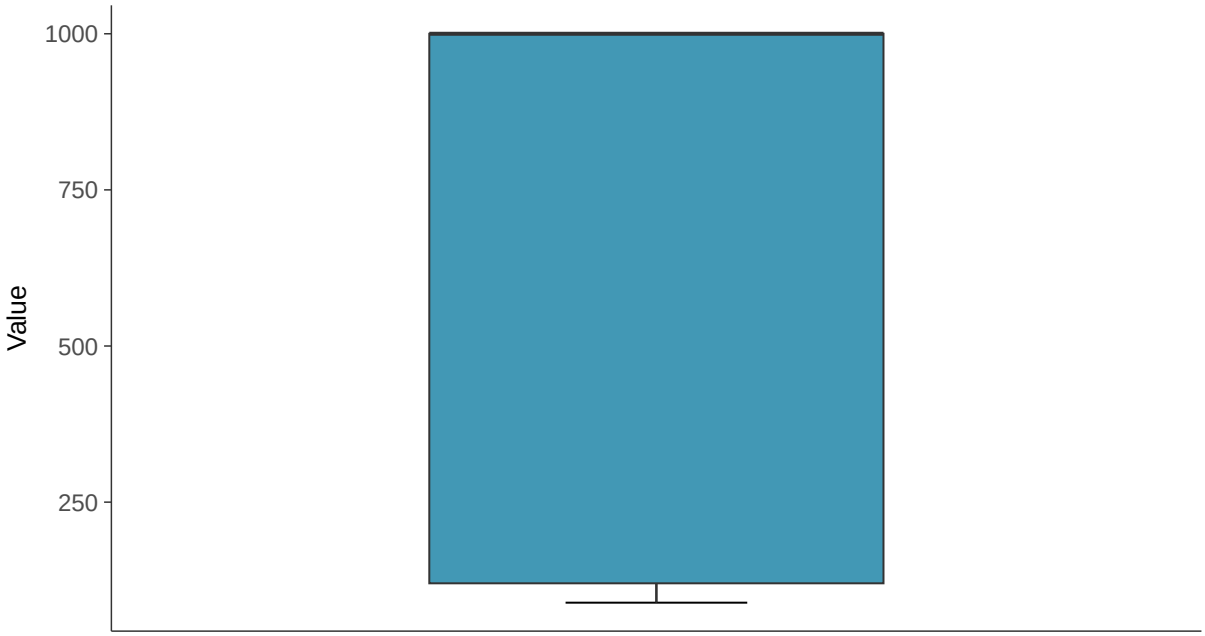
ID: 13_2_114





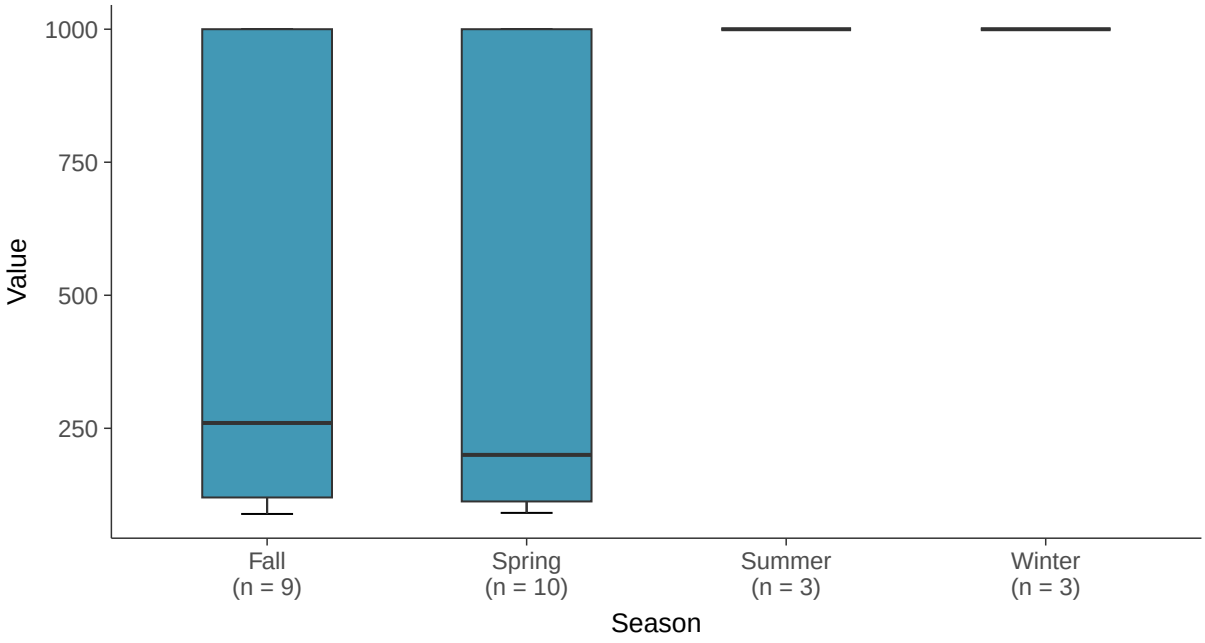
Boxplot

Fluoride, MW-15023 (ug/L)



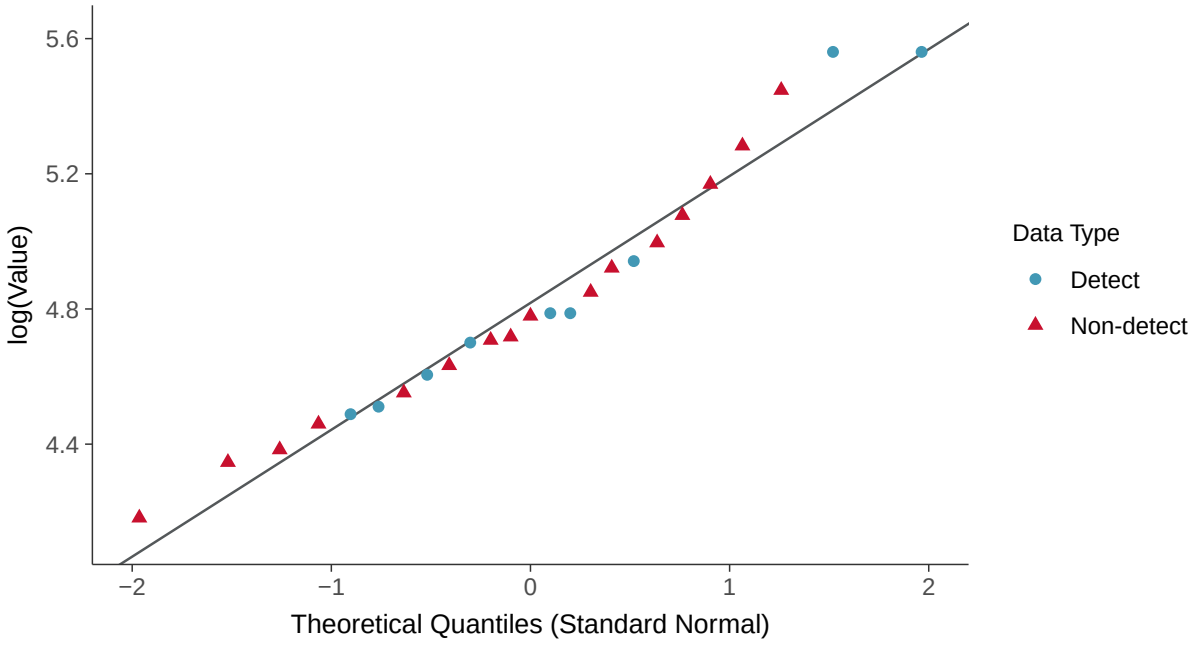
Boxplot by Season

Fluoride, MW-15023 (ug/L)



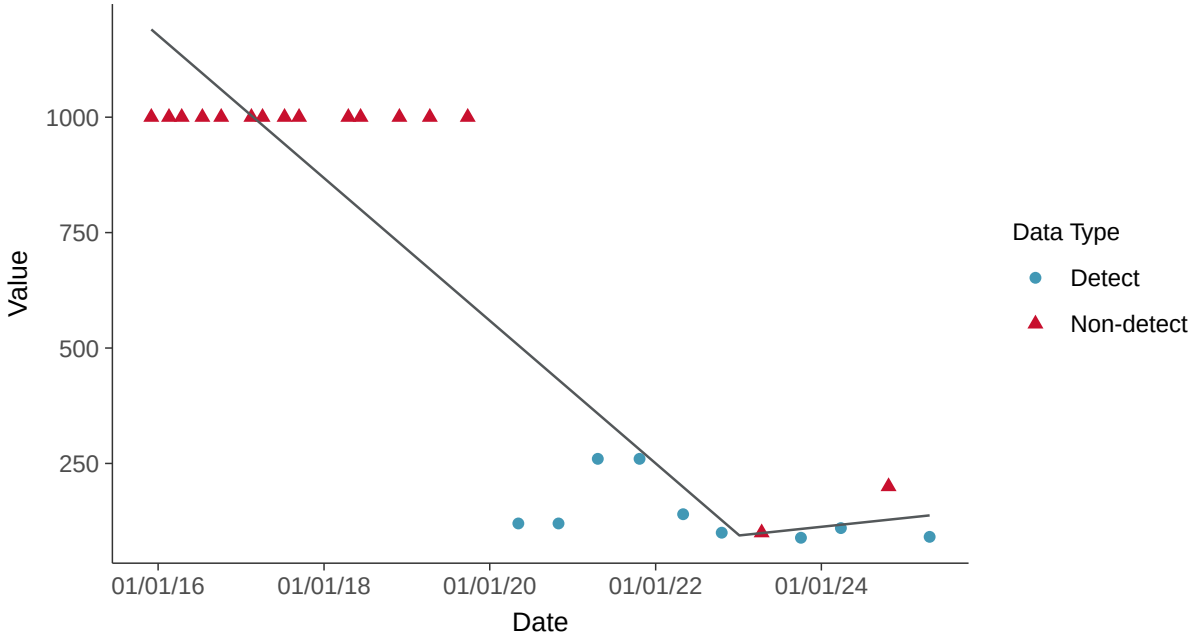
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-15023 (ug/L)



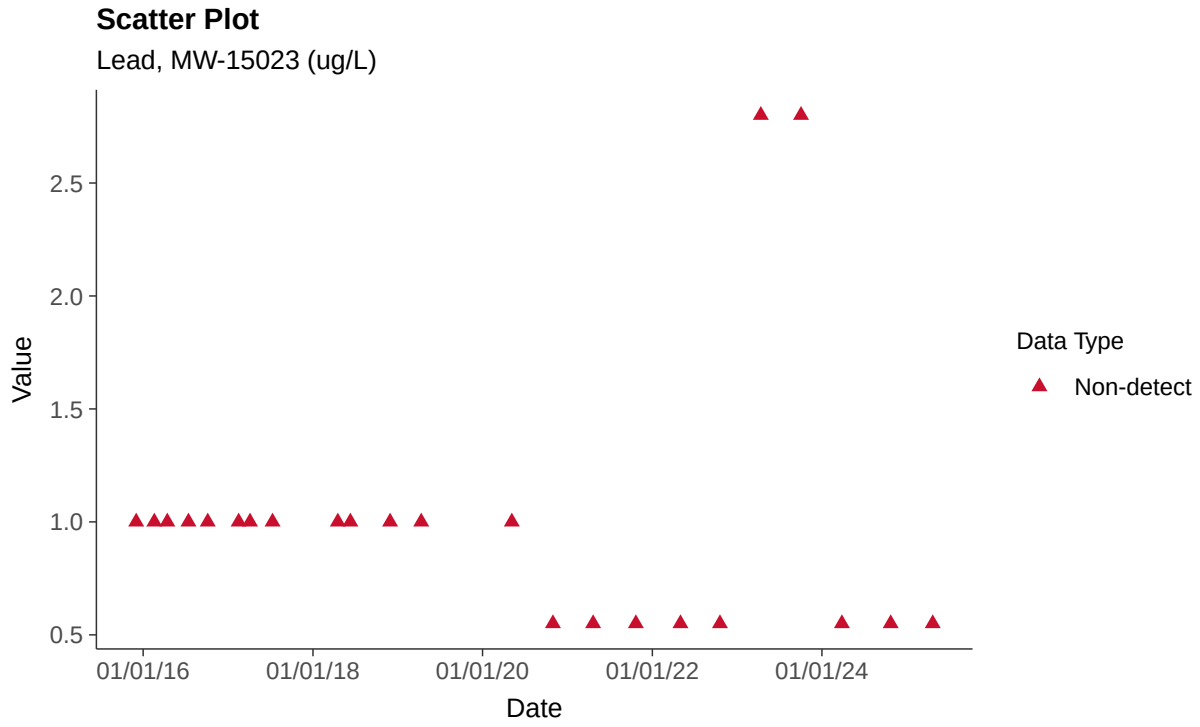
Trend Regression: Piecewise Linear-Linear

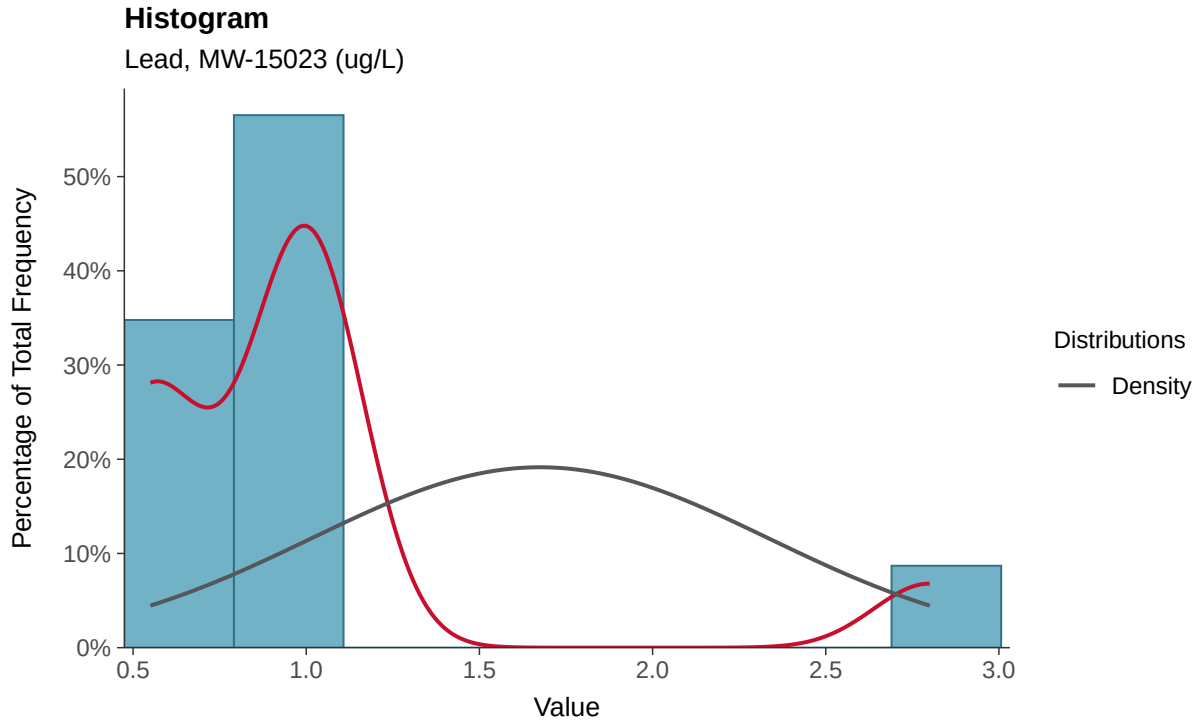
Fluoride, MW-15023 (ug/L)



Appendix IV: Lead, MW-15023

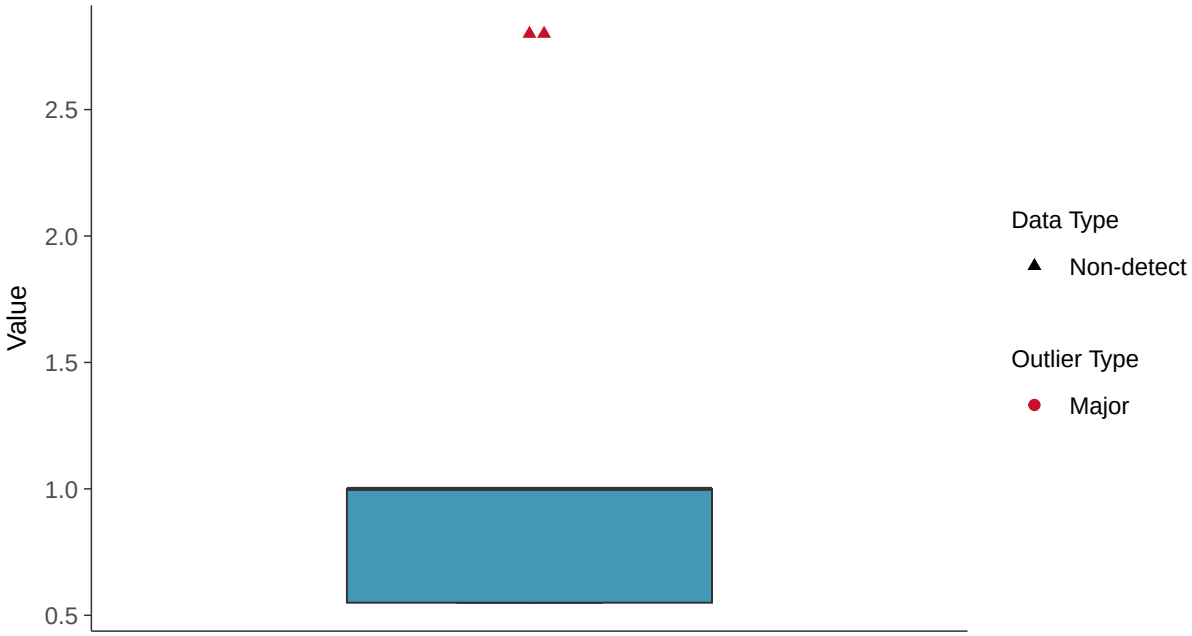
ID: 13_2_116





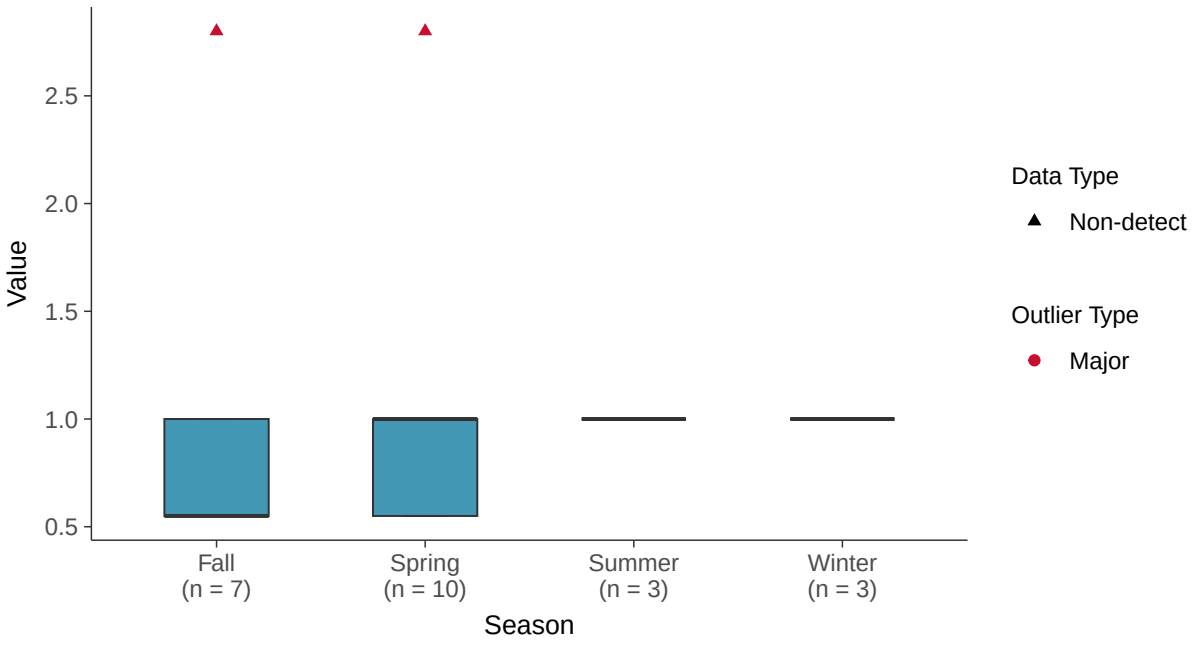
Boxplot

Lead, MW-15023 (ug/L)



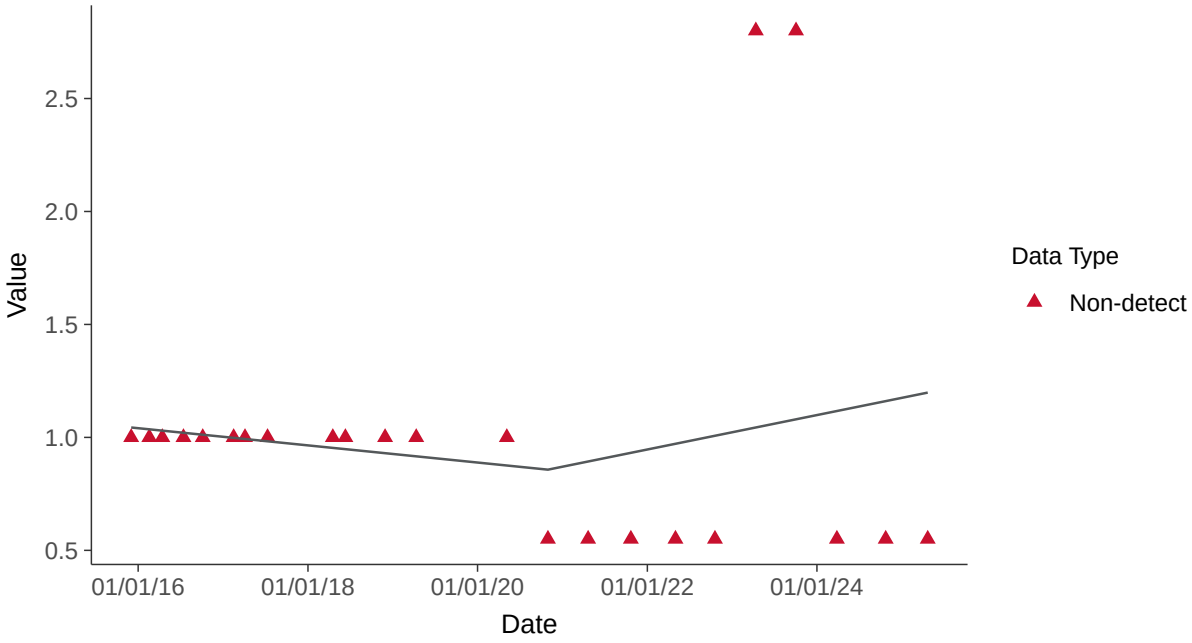
Boxplot by Season

Lead, MW-15023 (ug/L)



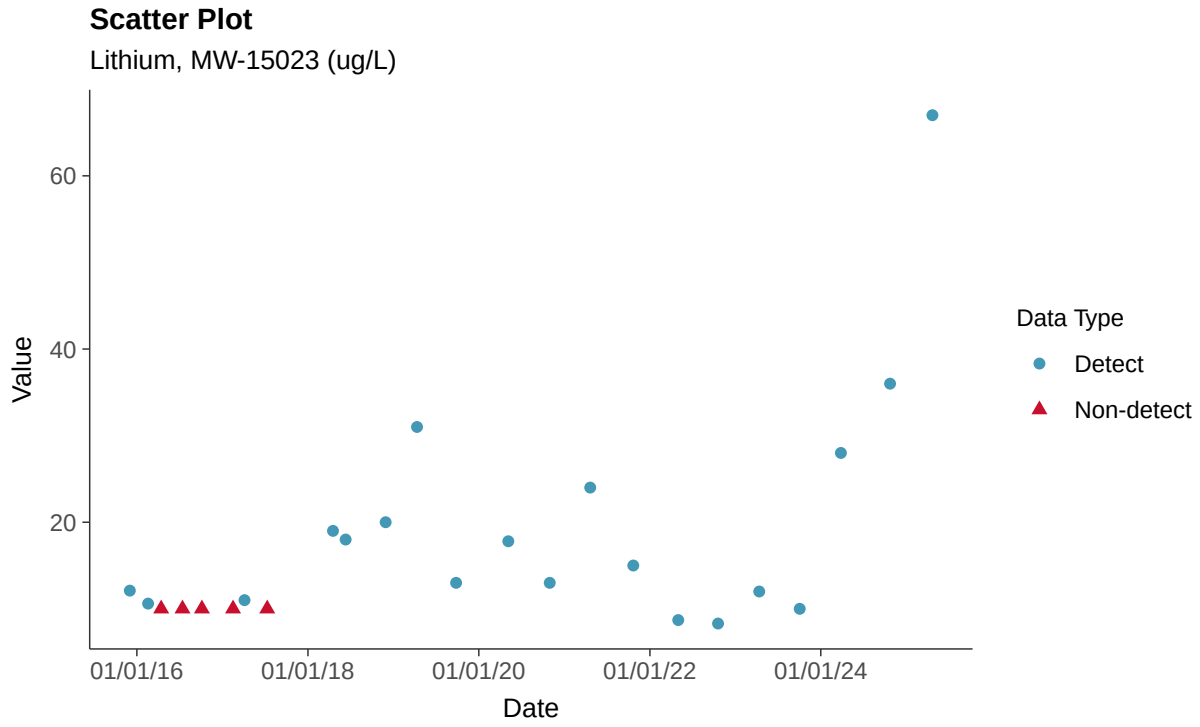
Trend Regression: Piecewise Linear-Linear

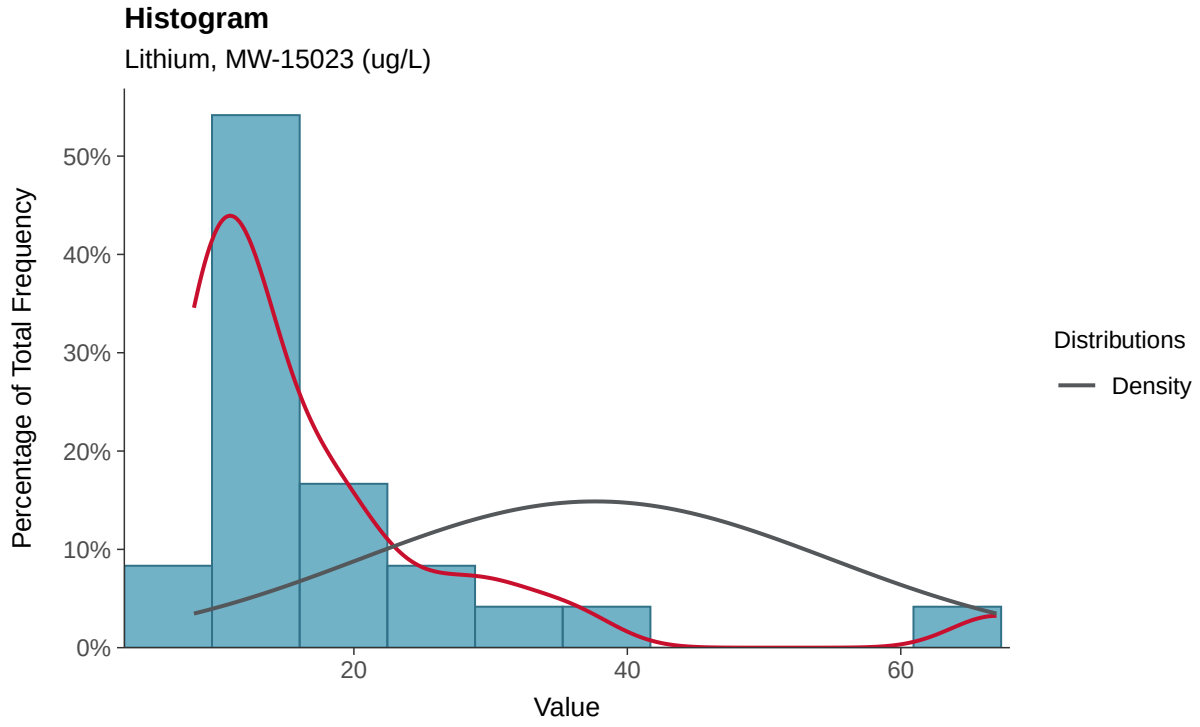
Lead, MW-15023 (ug/L)



Appendix IV: Lithium, MW-15023

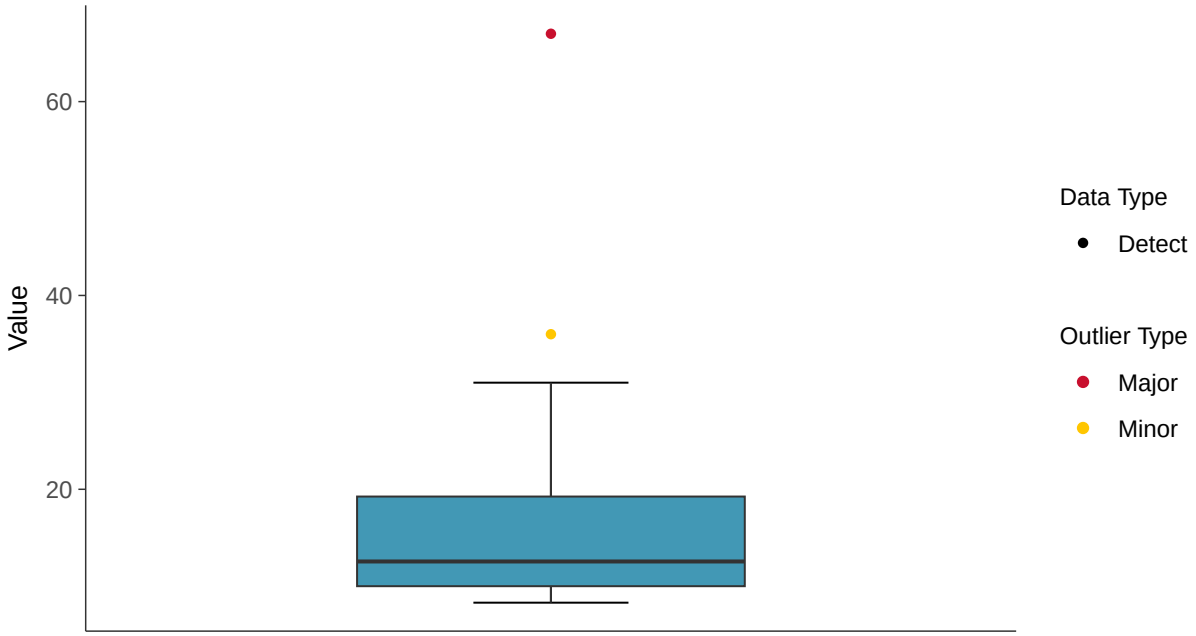
ID: 13_2_117





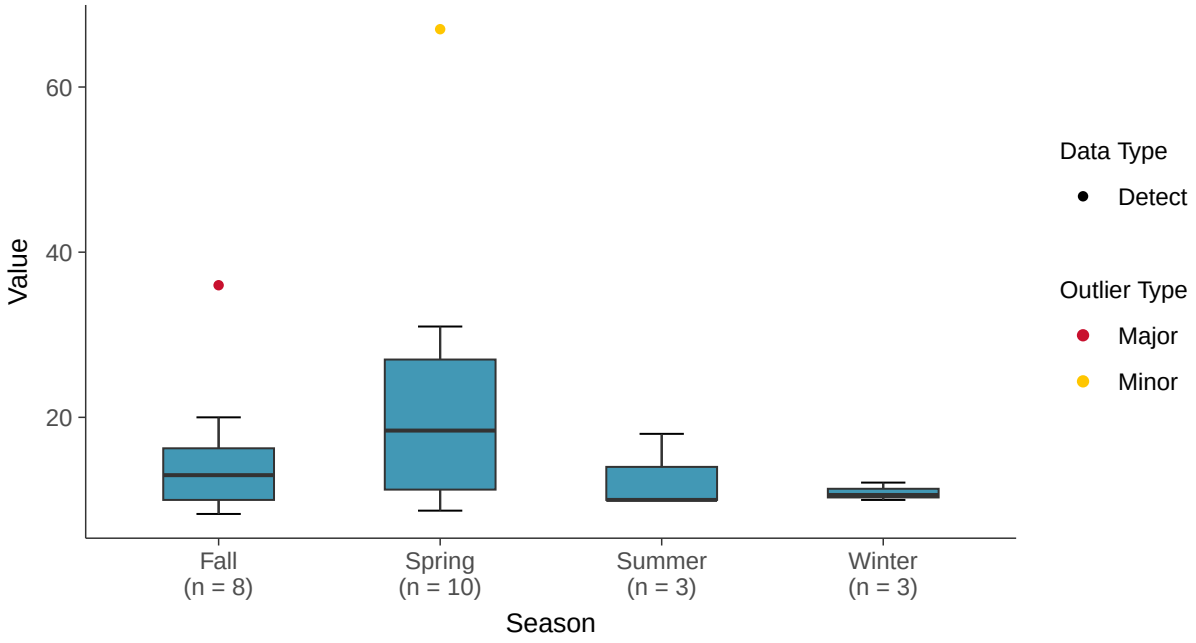
Boxplot

Lithium, MW-15023 (ug/L)



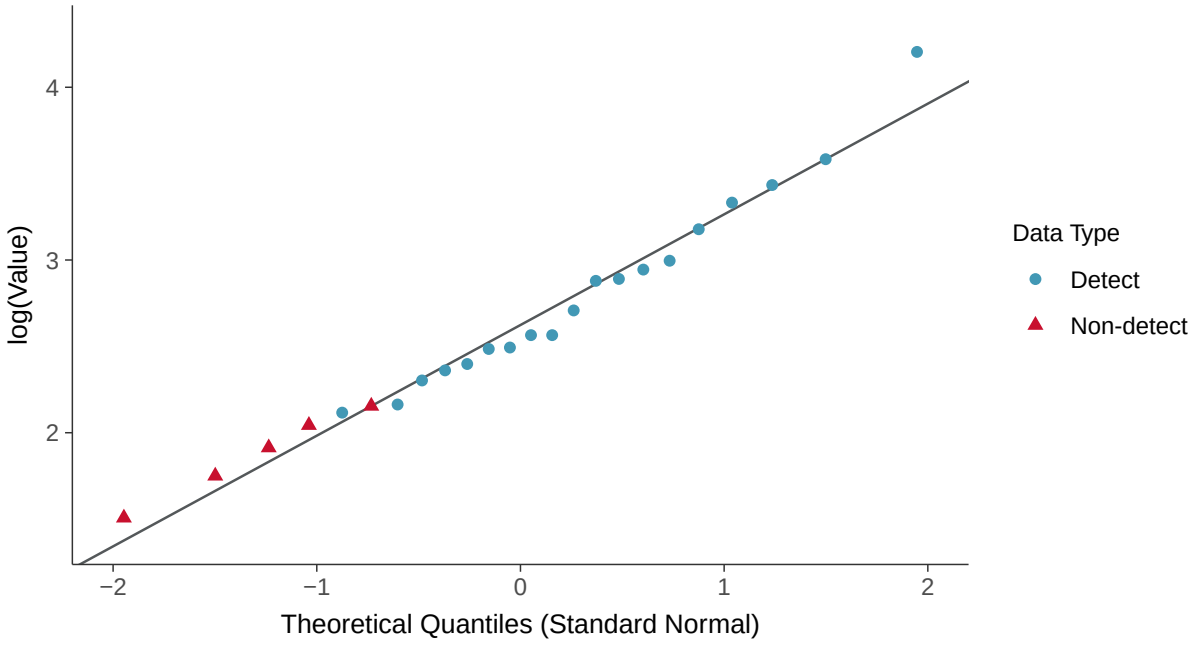
Boxplot by Season

Lithium, MW-15023 (ug/L)



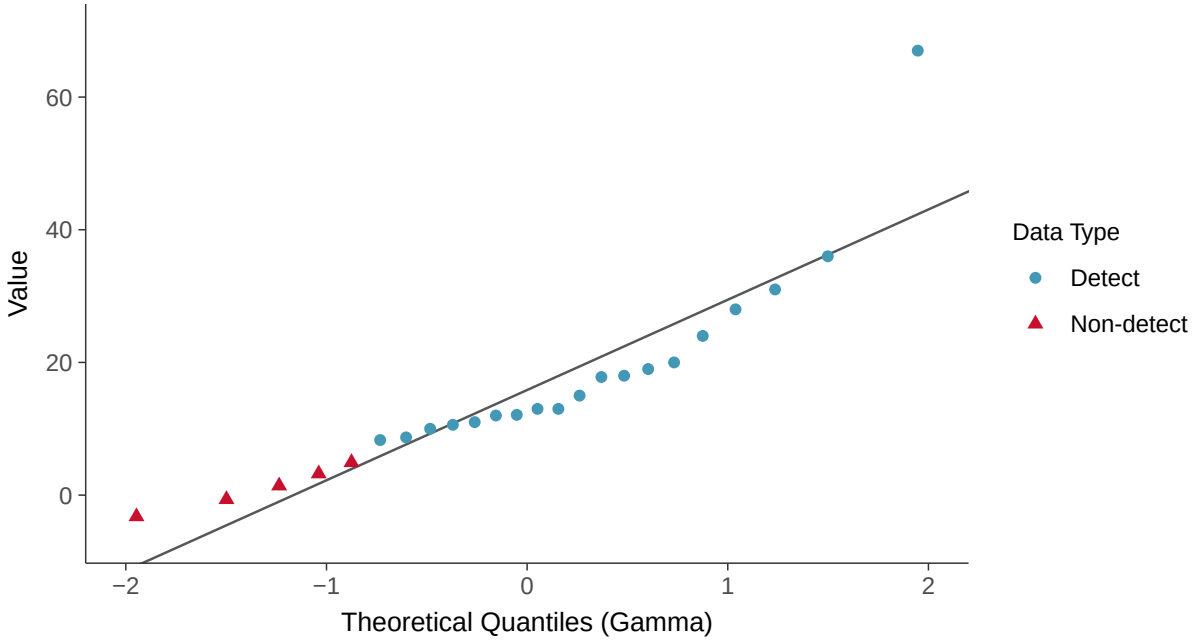
Lognormal Q-Q plot using ROS Imputed Estimates

Lithium, MW-15023 (ug/L)



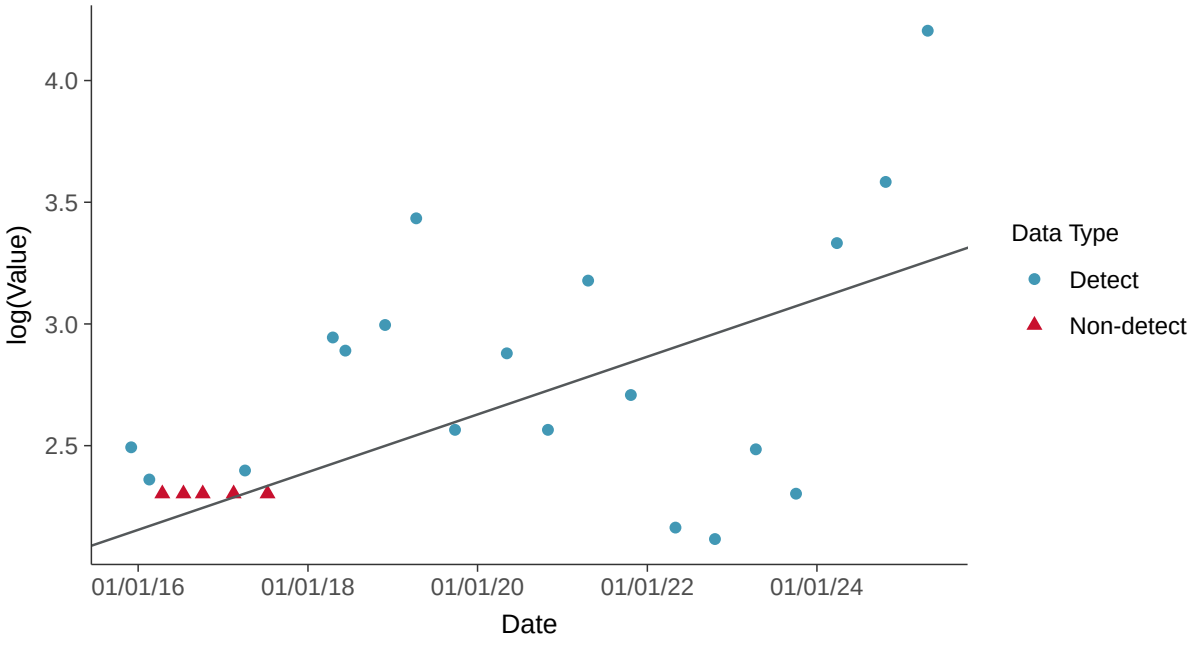
Gamma Q-Q plot using ROS Imputed Estimates

Lithium, MW-15023 (ug/L)



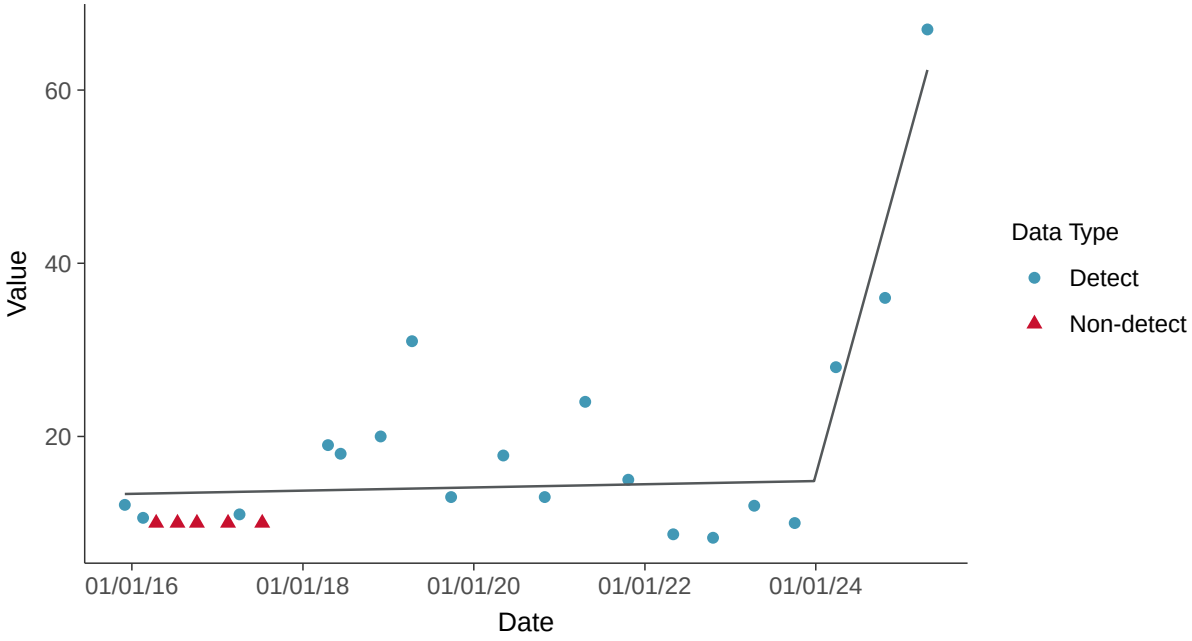
Trend Regression: Lognormal MLE

Lithium, MW-15023 (ug/L)



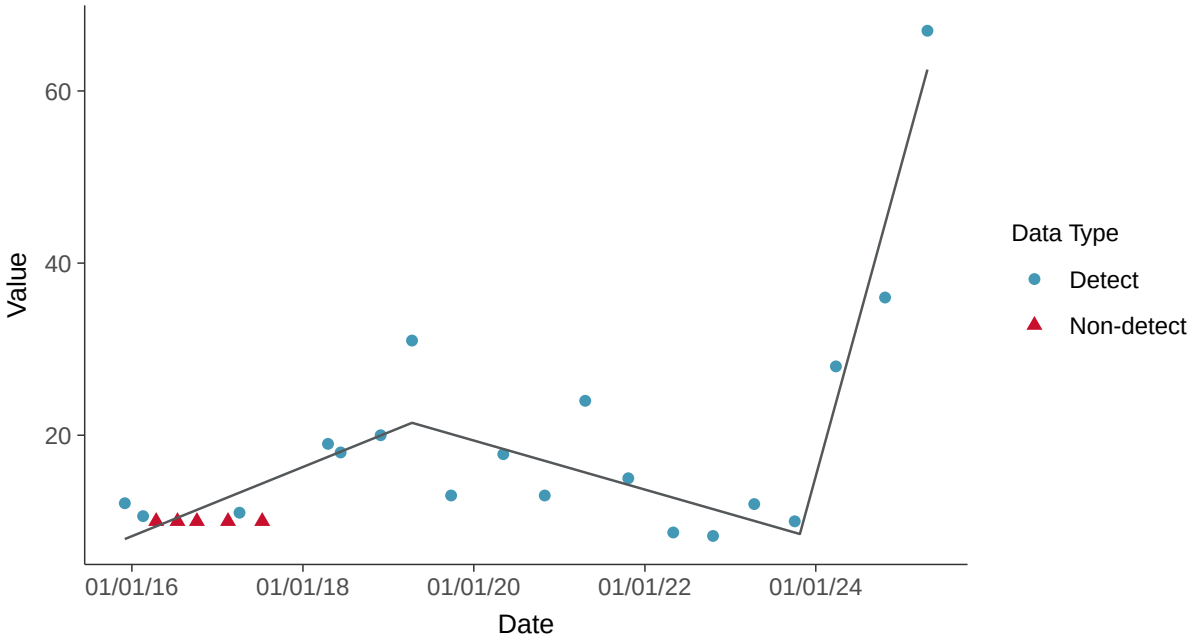
Trend Regression: Piecewise Linear-Linear

Lithium, MW-15023 (ug/L)



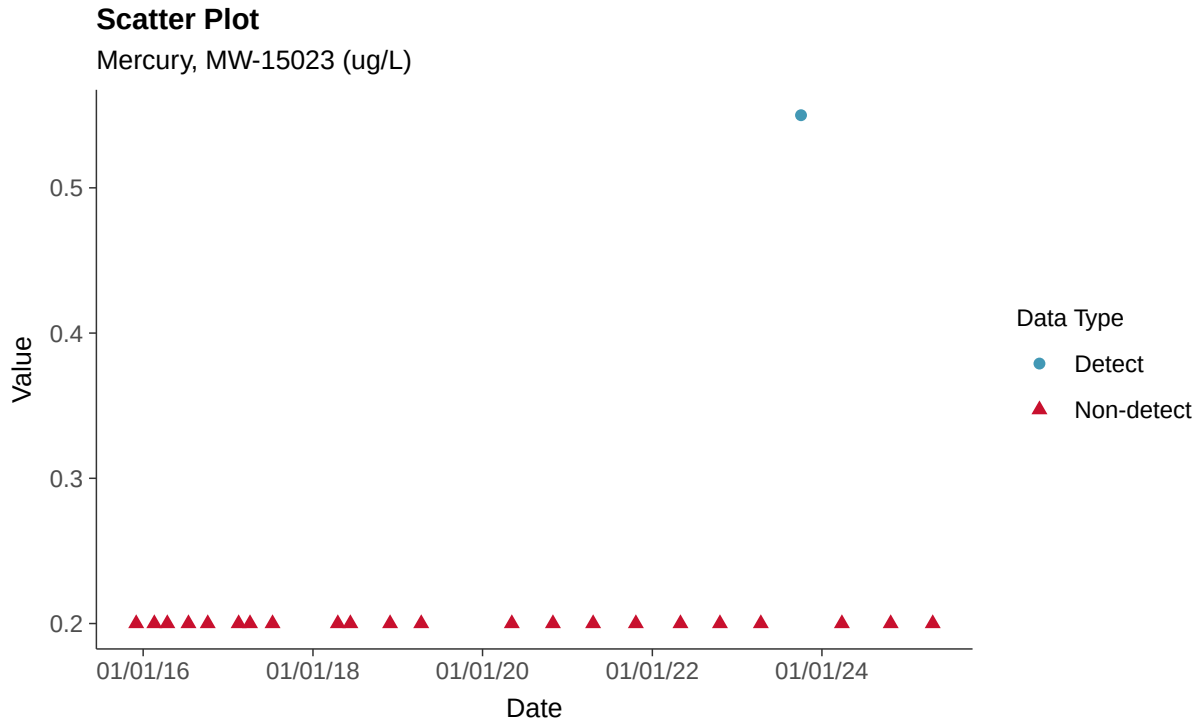
Trend Regression: Piecewise Linear-Linear-Linear

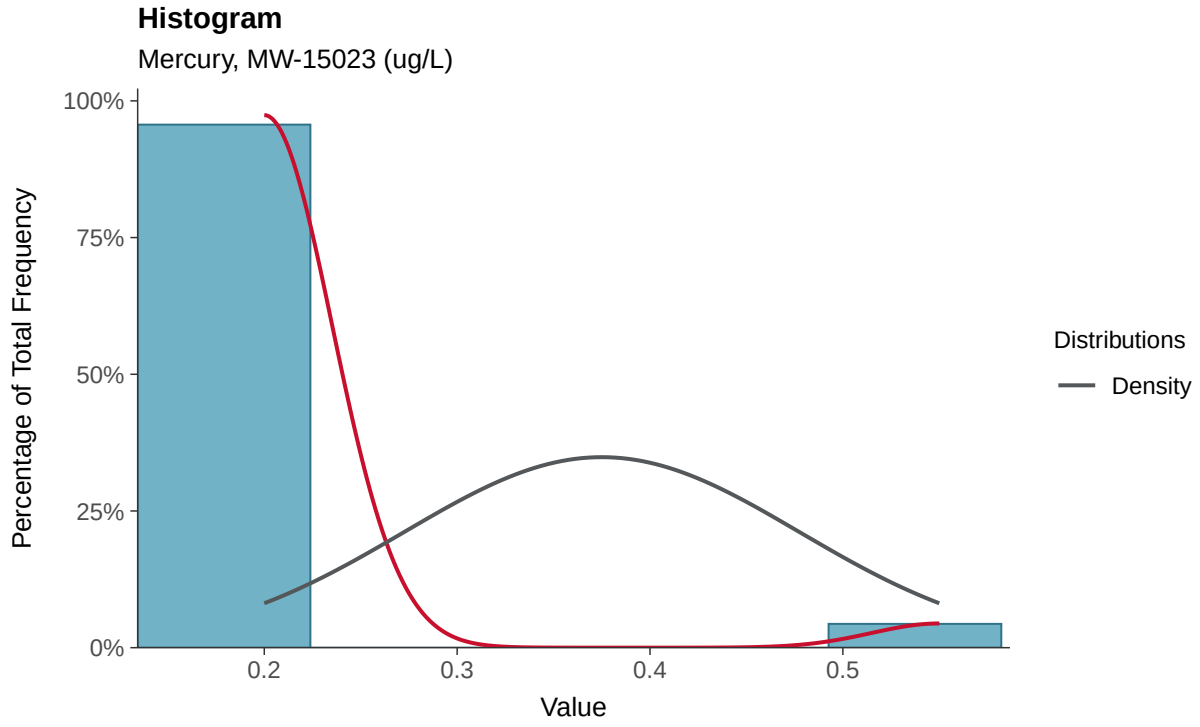
Lithium, MW-15023 (ug/L)



Appendix IV: Mercury, MW-15023

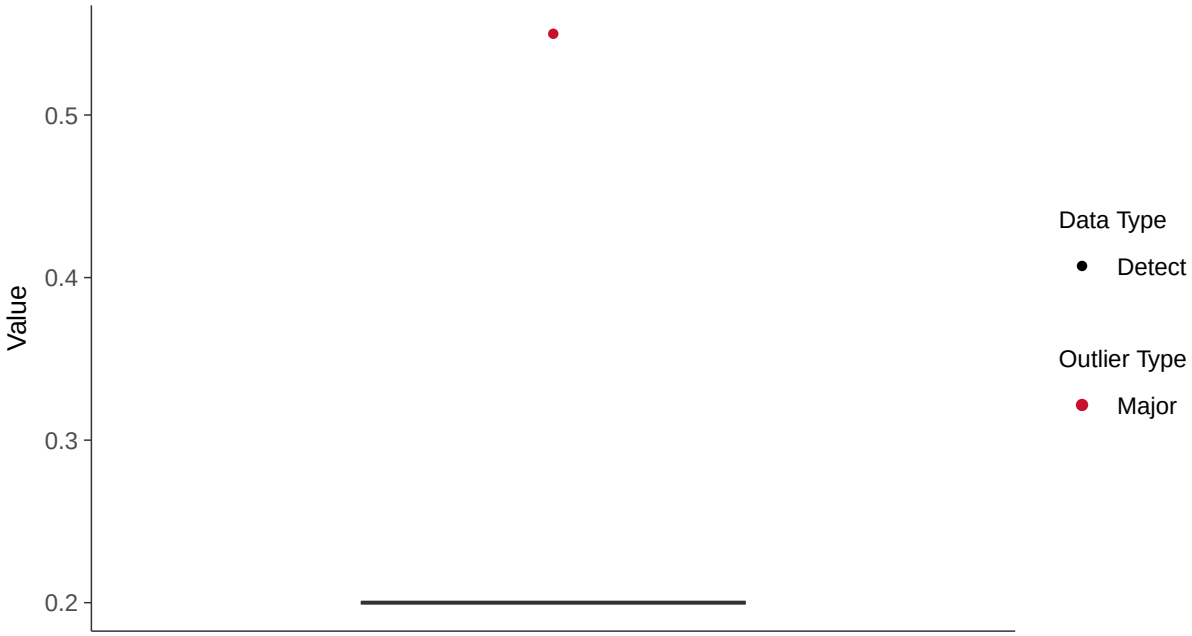
ID: 13_2_118





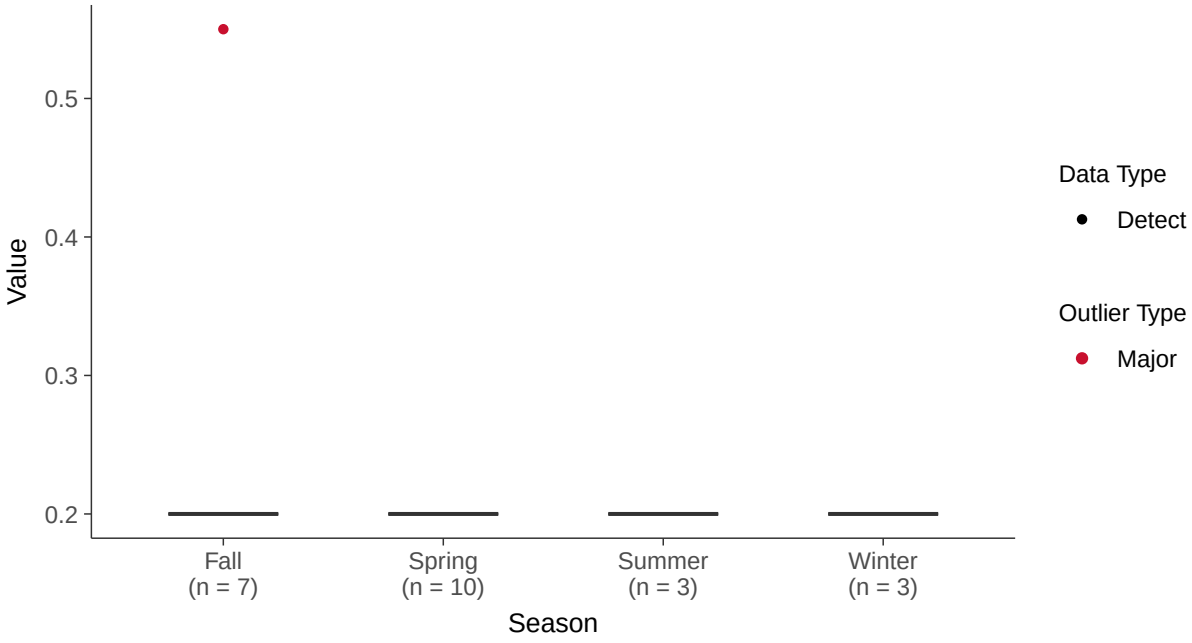
Boxplot

Mercury, MW-15023 (ug/L)



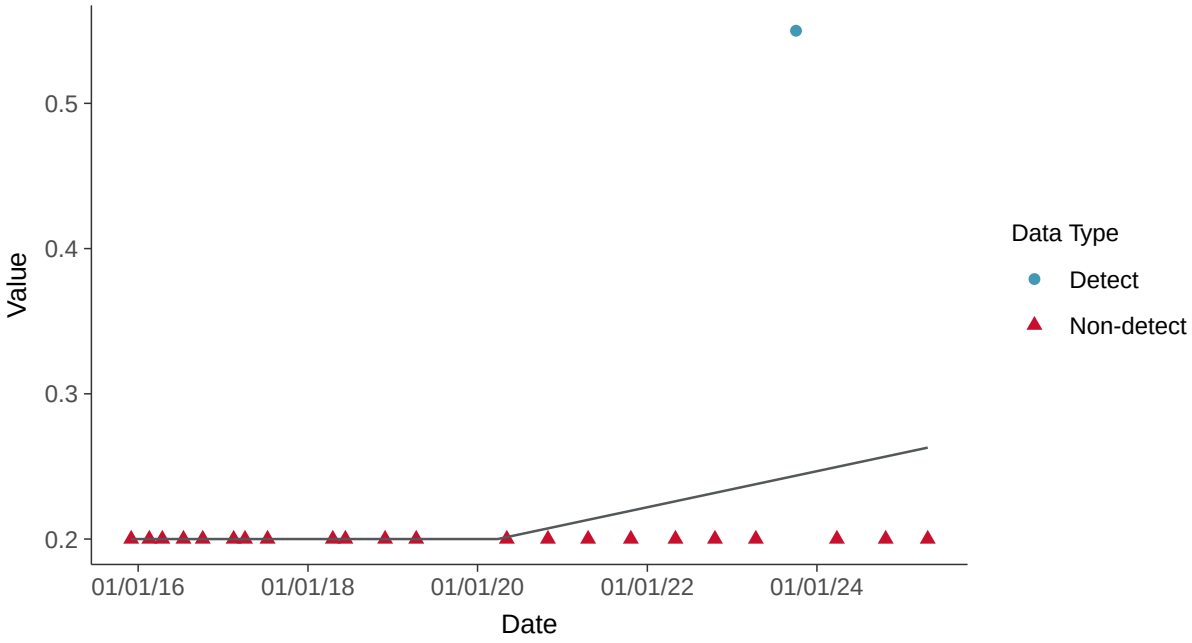
Boxplot by Season

Mercury, MW-15023 (ug/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-15023 (ug/L)

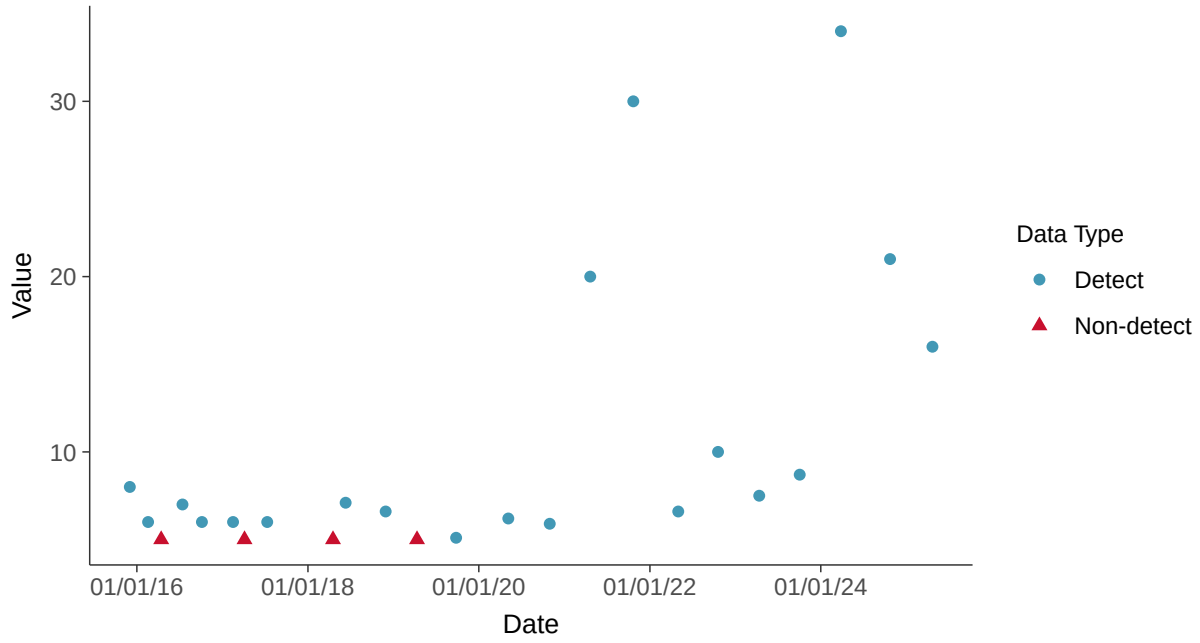


Appendix IV: Molybdenum, MW-15023

ID: 13_2_119

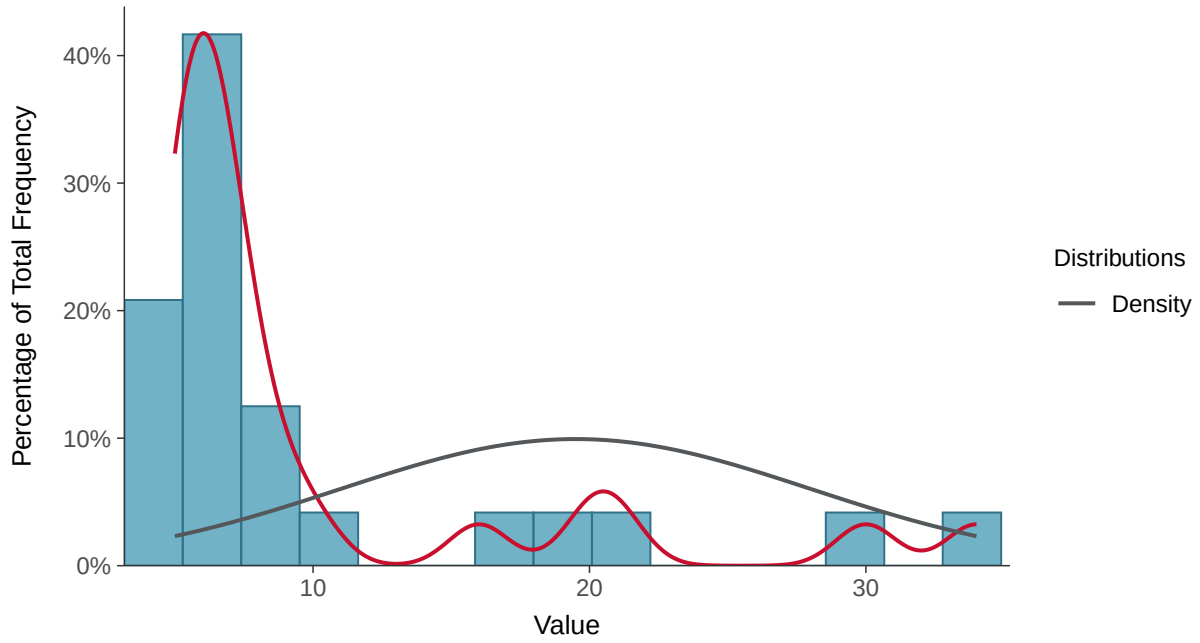
Scatter Plot

Molybdenum, MW-15023 (ug/L)



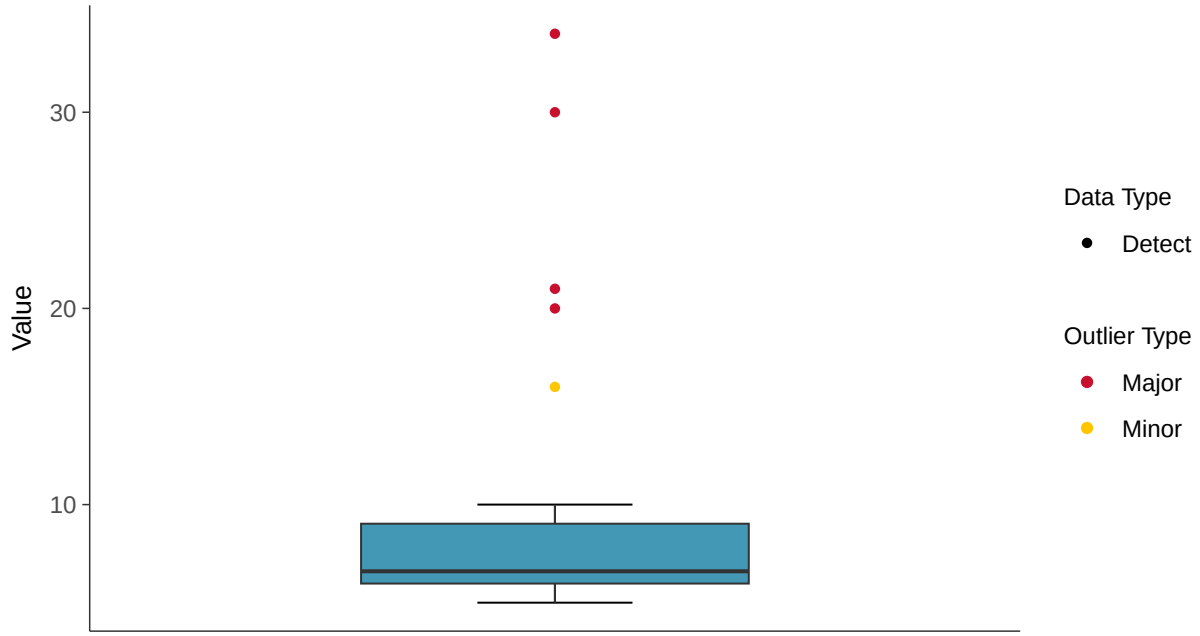
Histogram

Molybdenum, MW-15023 (ug/L)



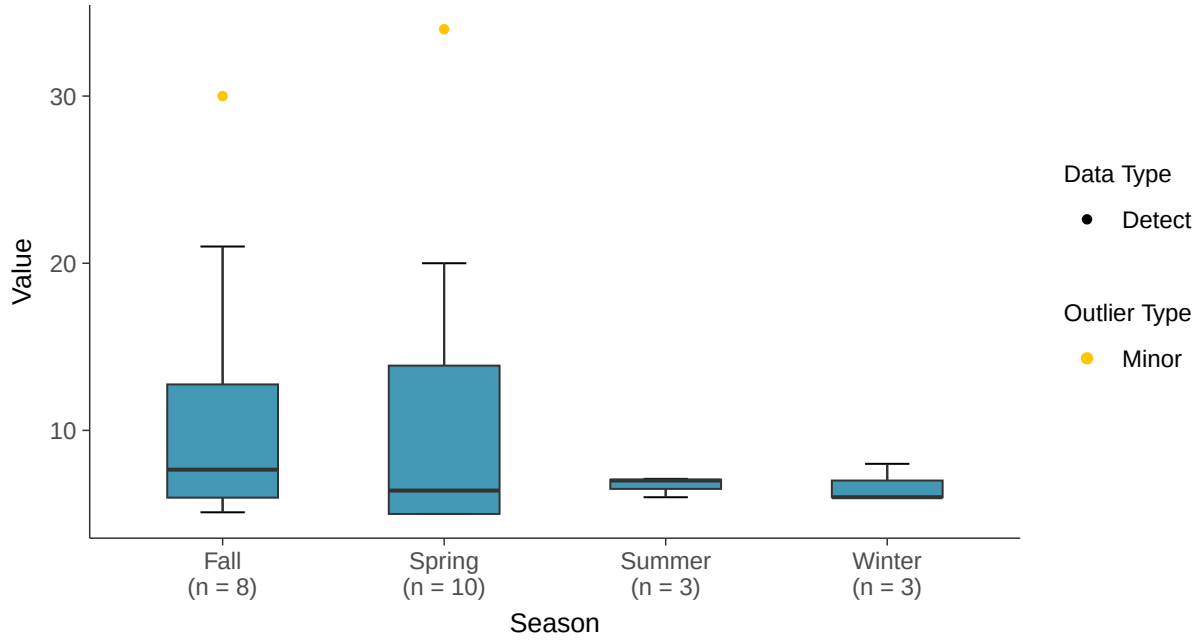
Boxplot

Molybdenum, MW-15023 (ug/L)



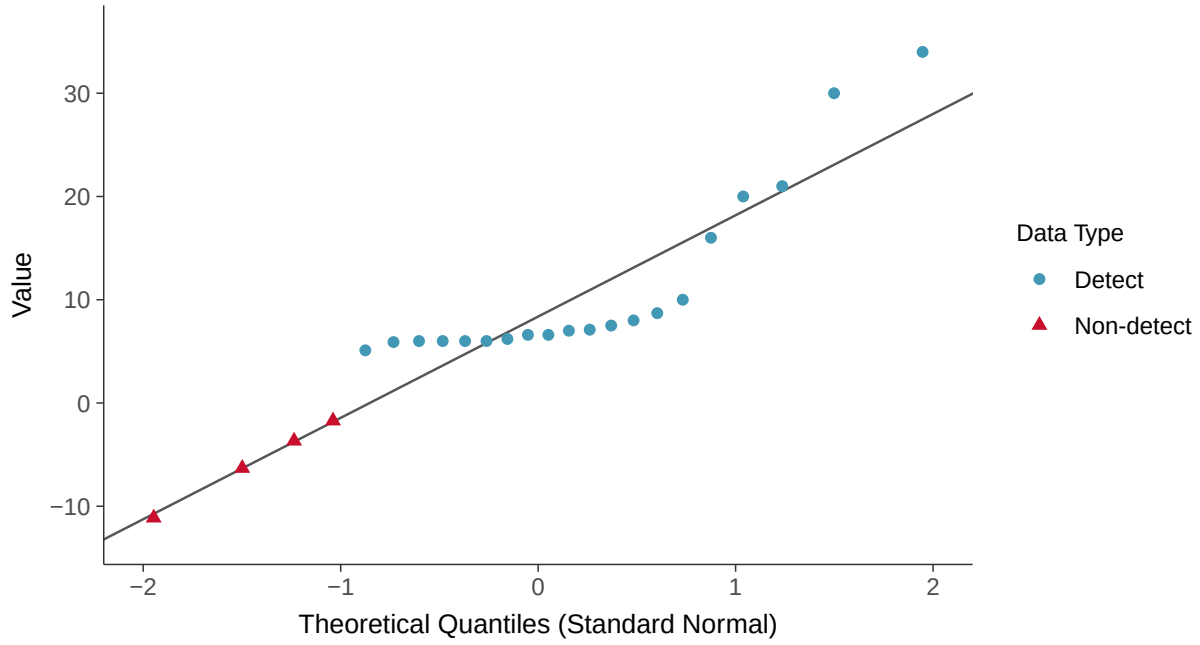
Boxplot by Season

Molybdenum, MW-15023 (ug/L)



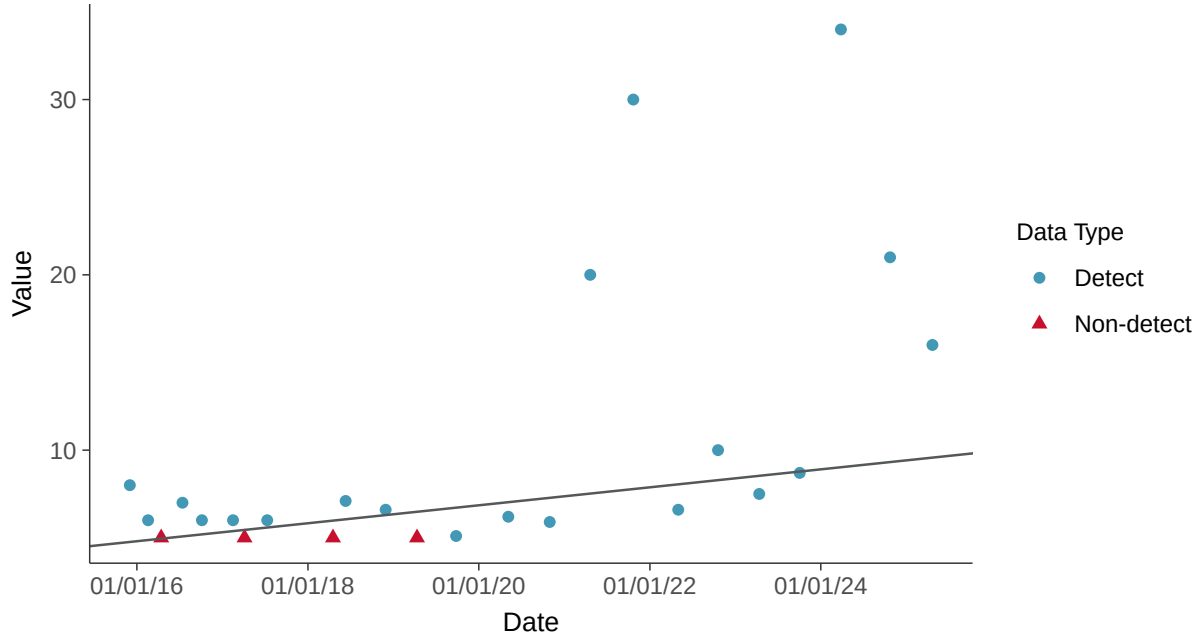
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-15023 (ug/L)



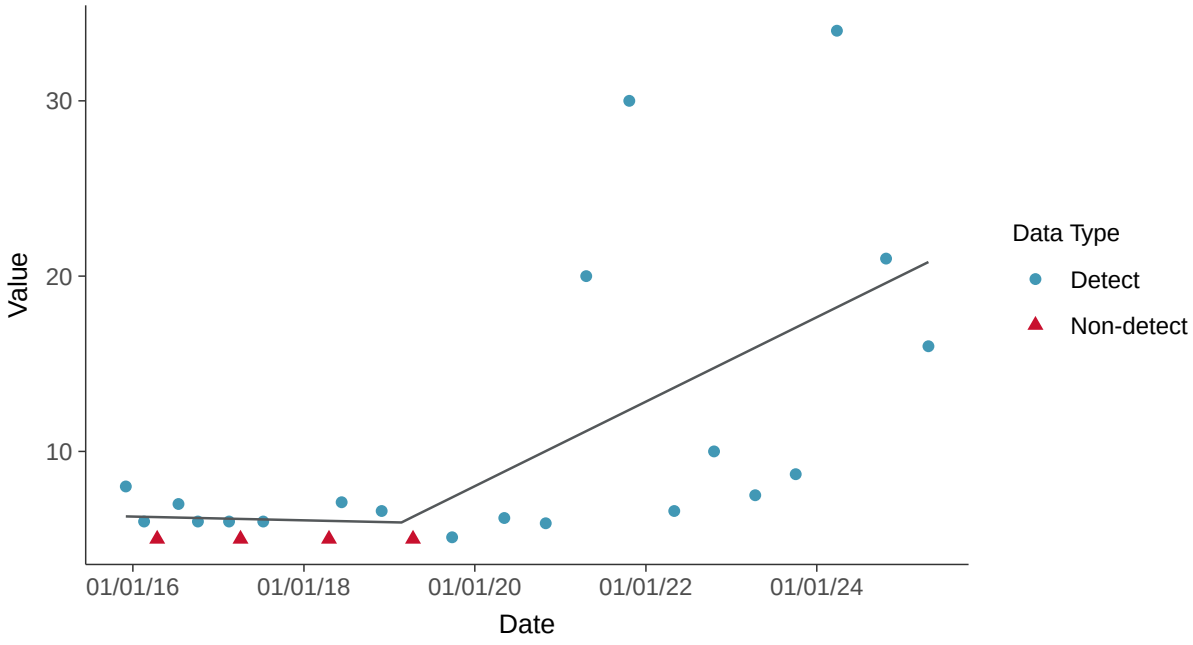
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Molybdenum, MW-15023 (ug/L)



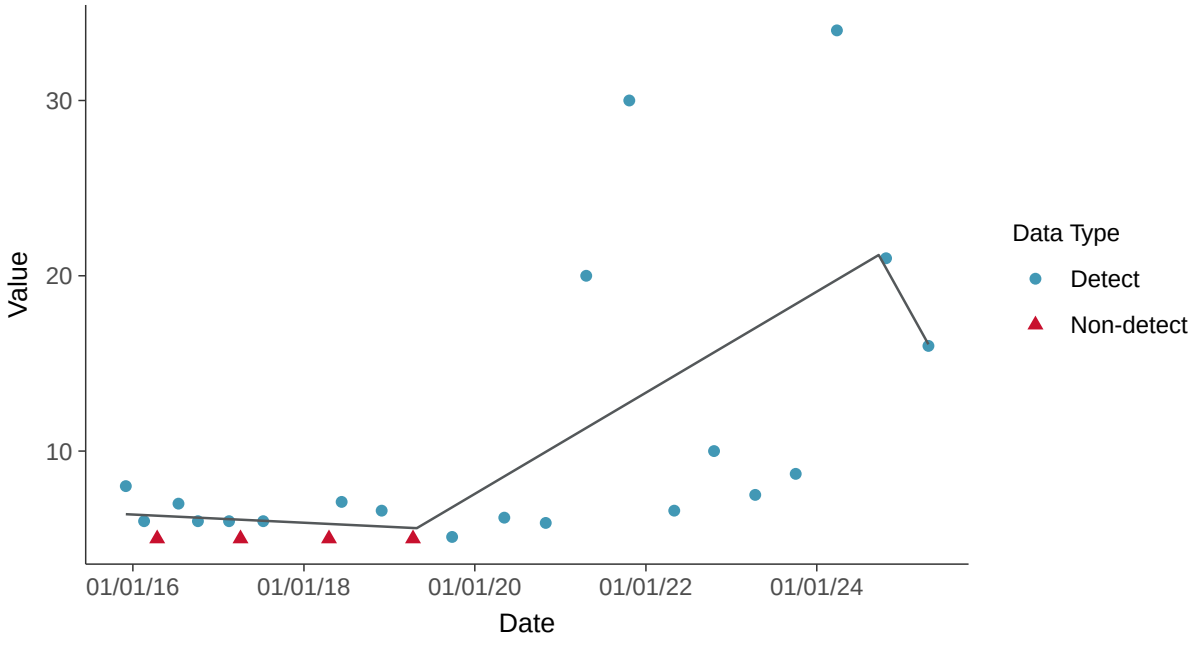
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-15023 (ug/L)



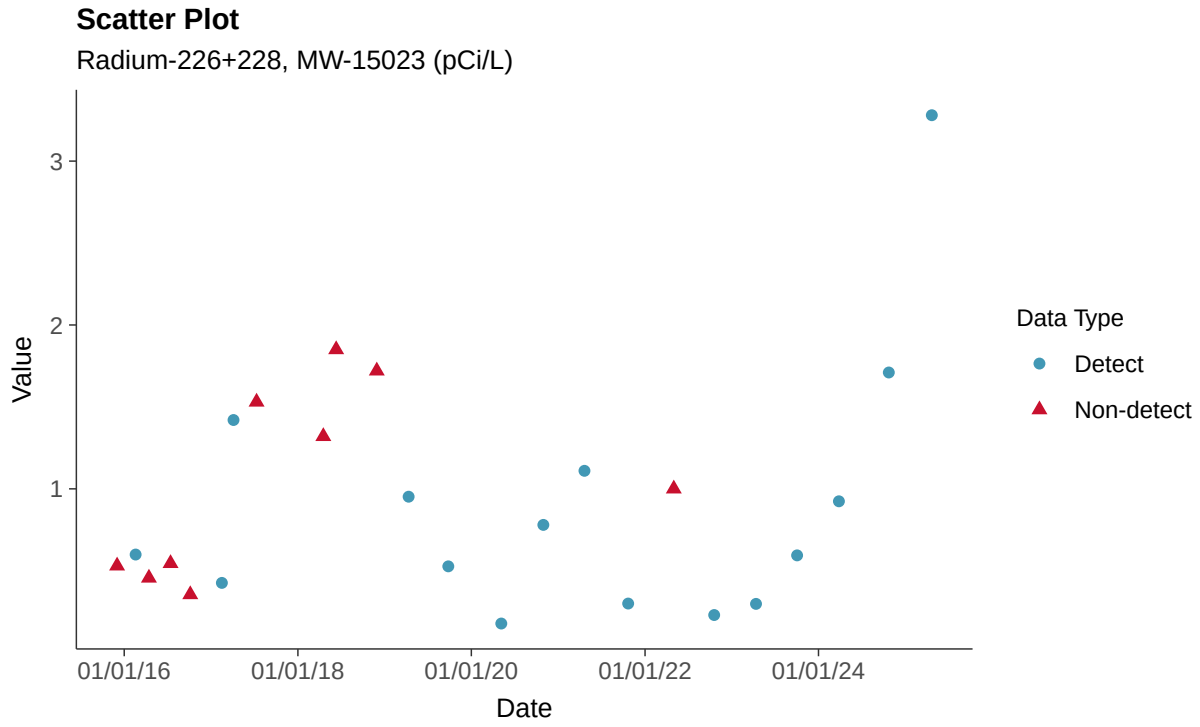
Trend Regression: Piecewise Linear-Linear-Linear

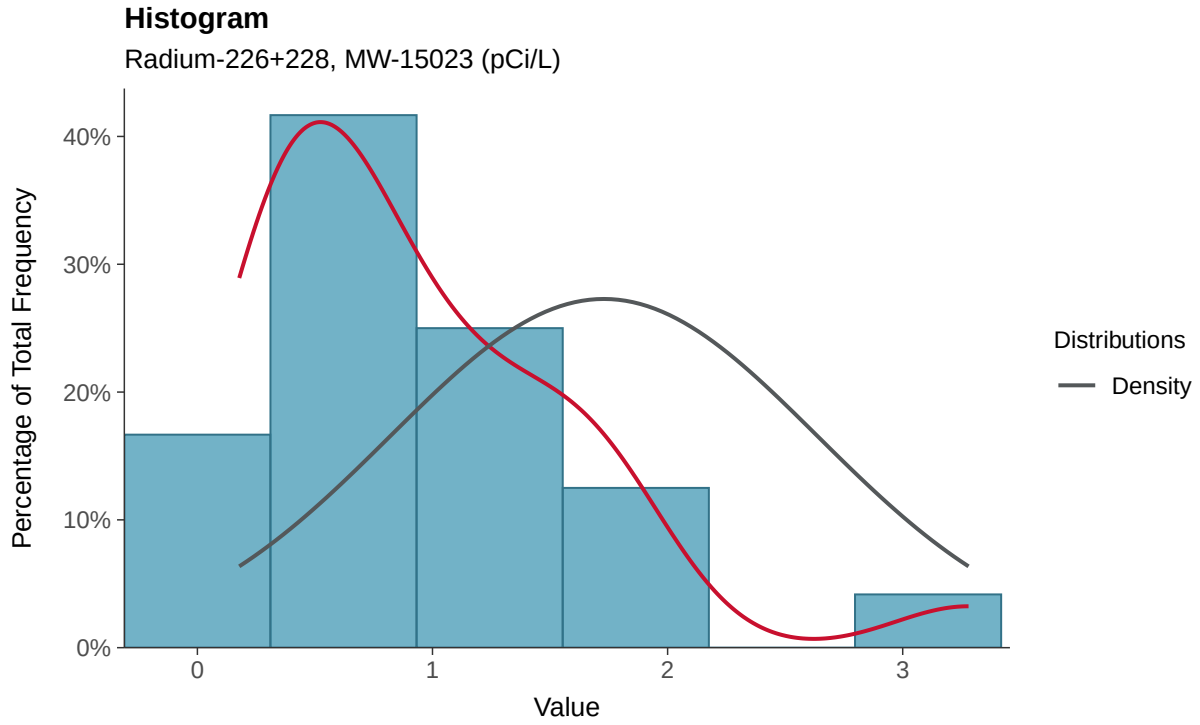
Molybdenum, MW-15023 (ug/L)



Appendix IV: Radium-226+228, MW-15023

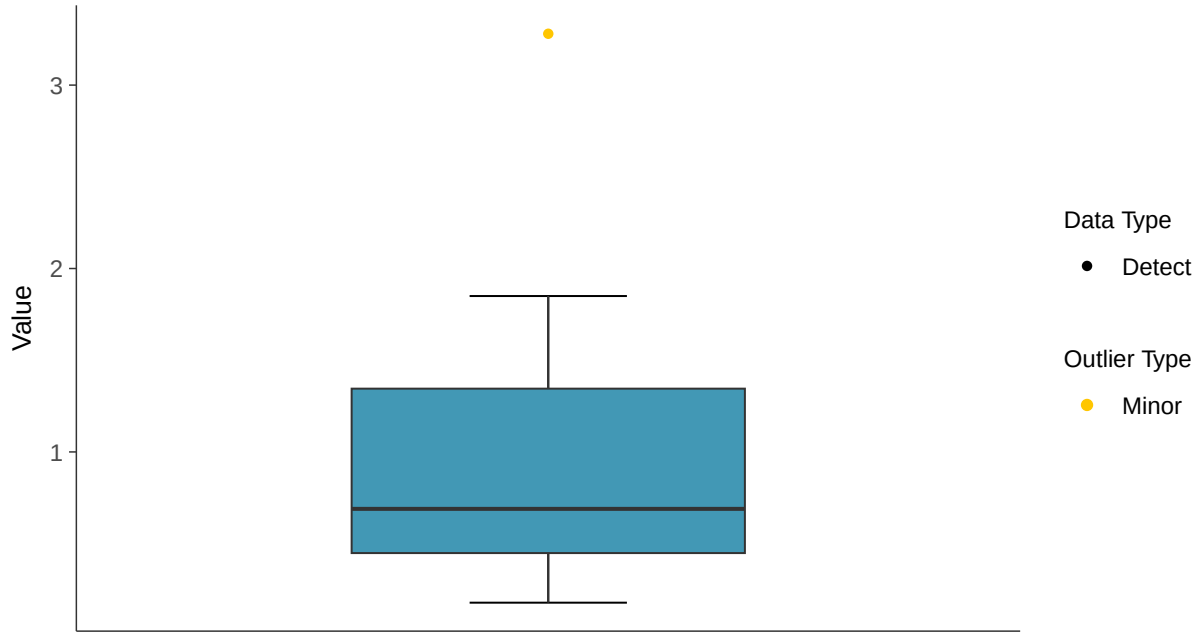
ID: 13_2_125





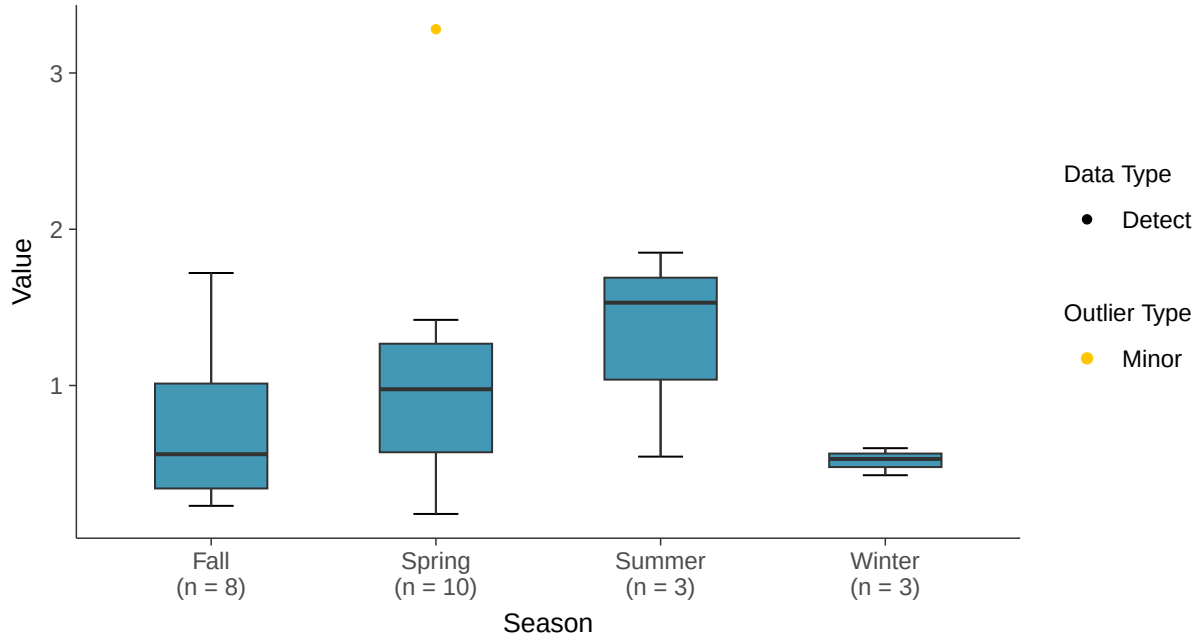
Boxplot

Radium-226+228, MW-15023 (pCi/L)



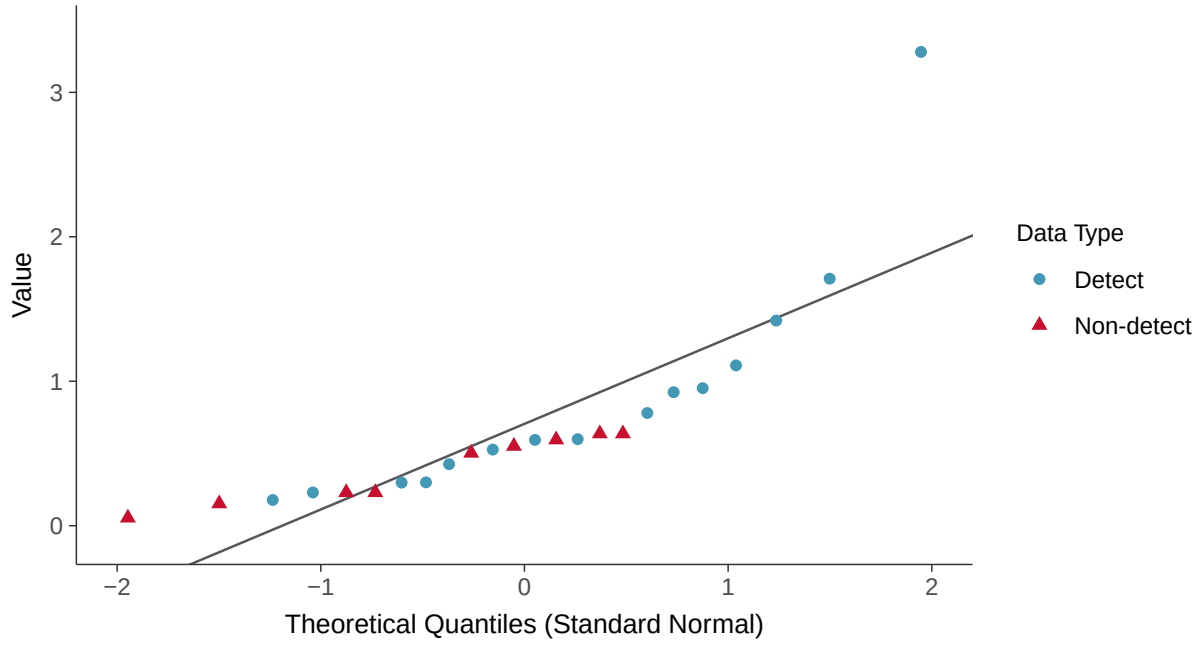
Boxplot by Season

Radium-226+228, MW-15023 (pCi/L)



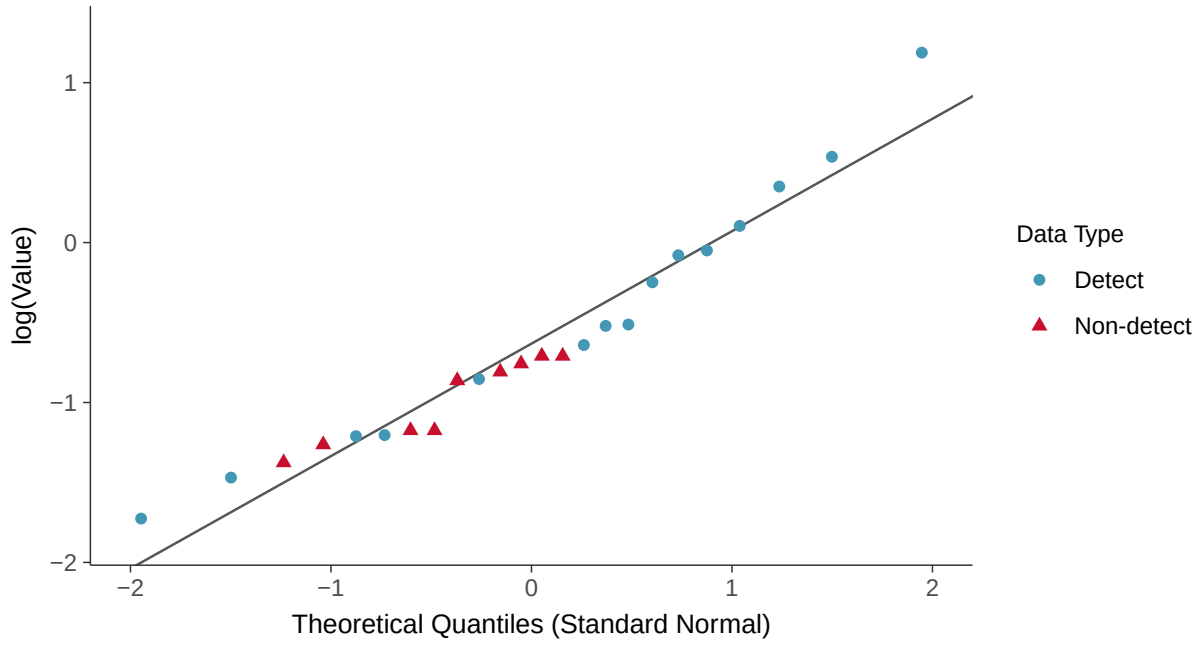
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15023 (pCi/L)



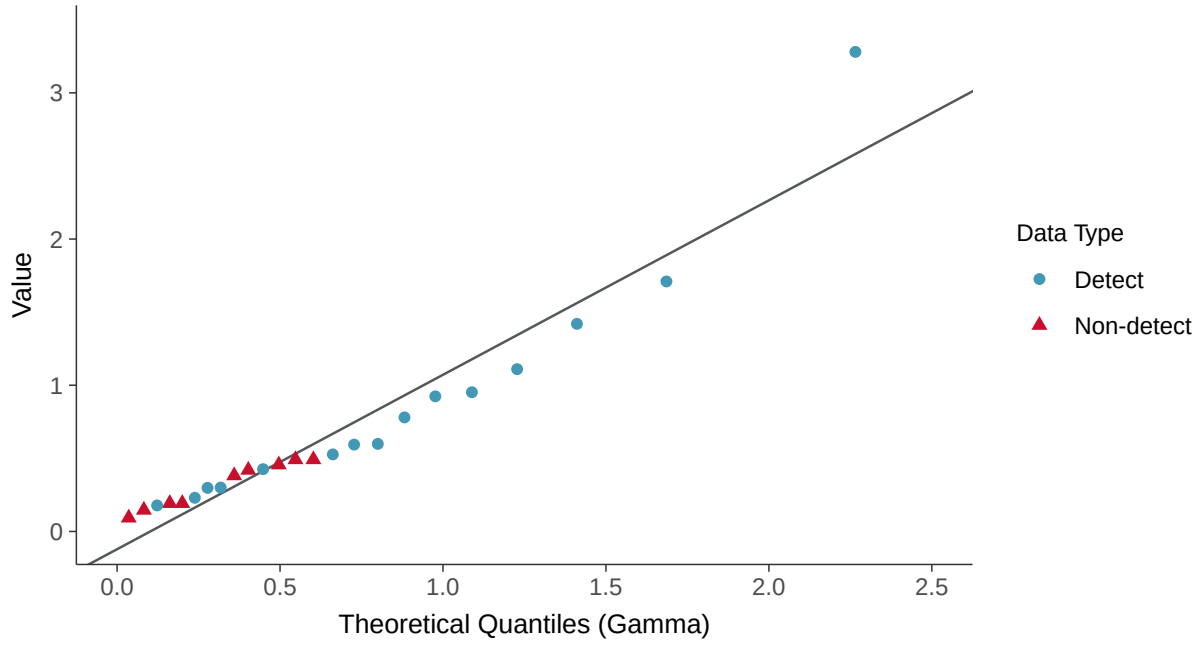
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15023 (pCi/L)



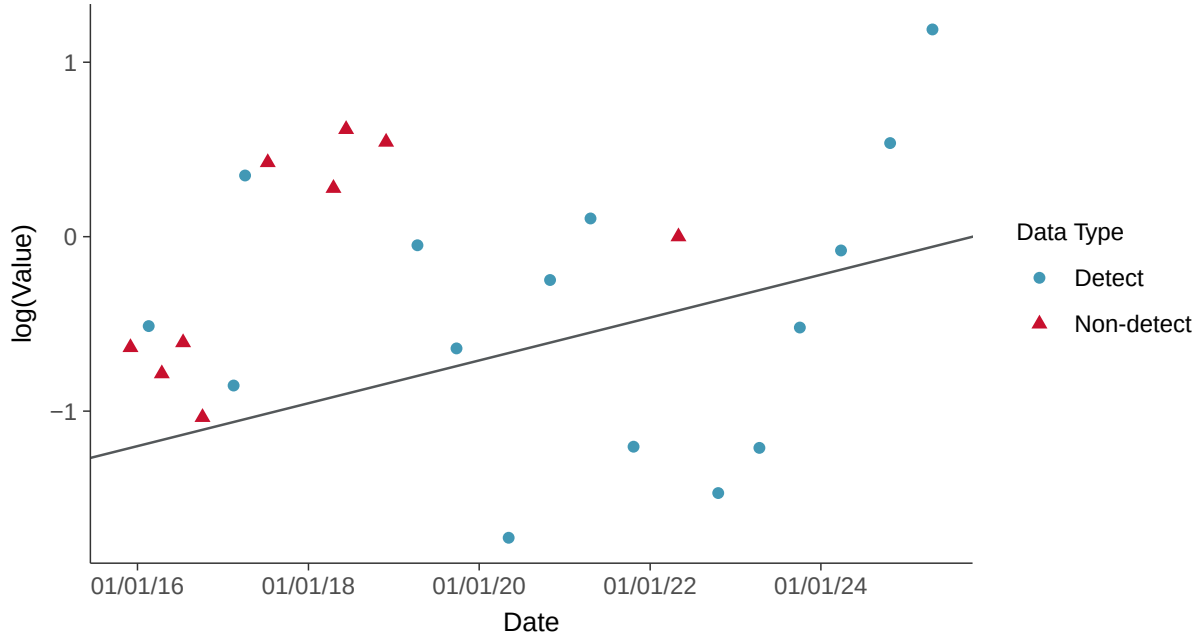
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-15023 (pCi/L)



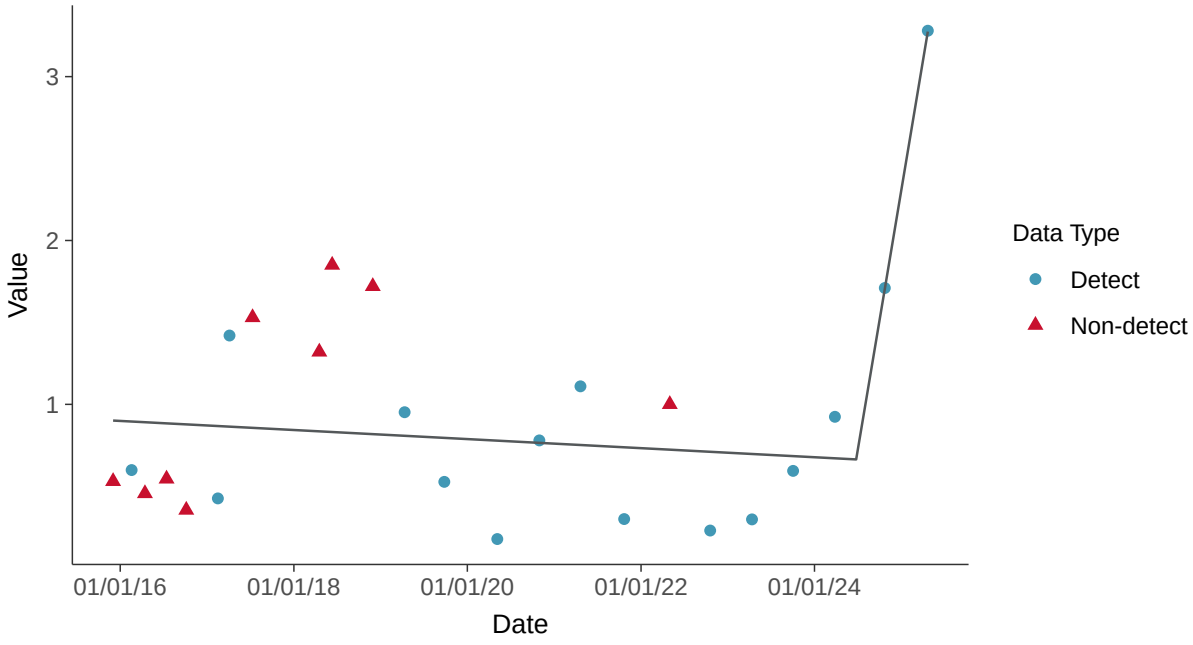
Trend Regression: Lognormal MLE

Radium-226+228, MW-15023 (pCi/L)



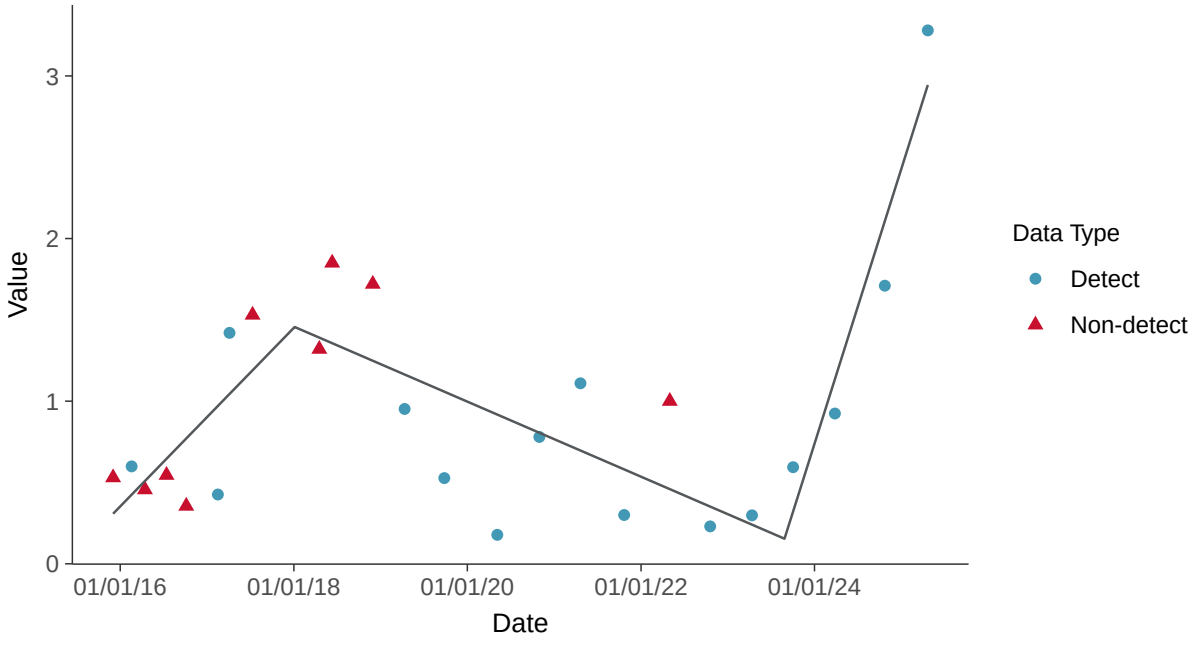
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-15023 (pCi/L)



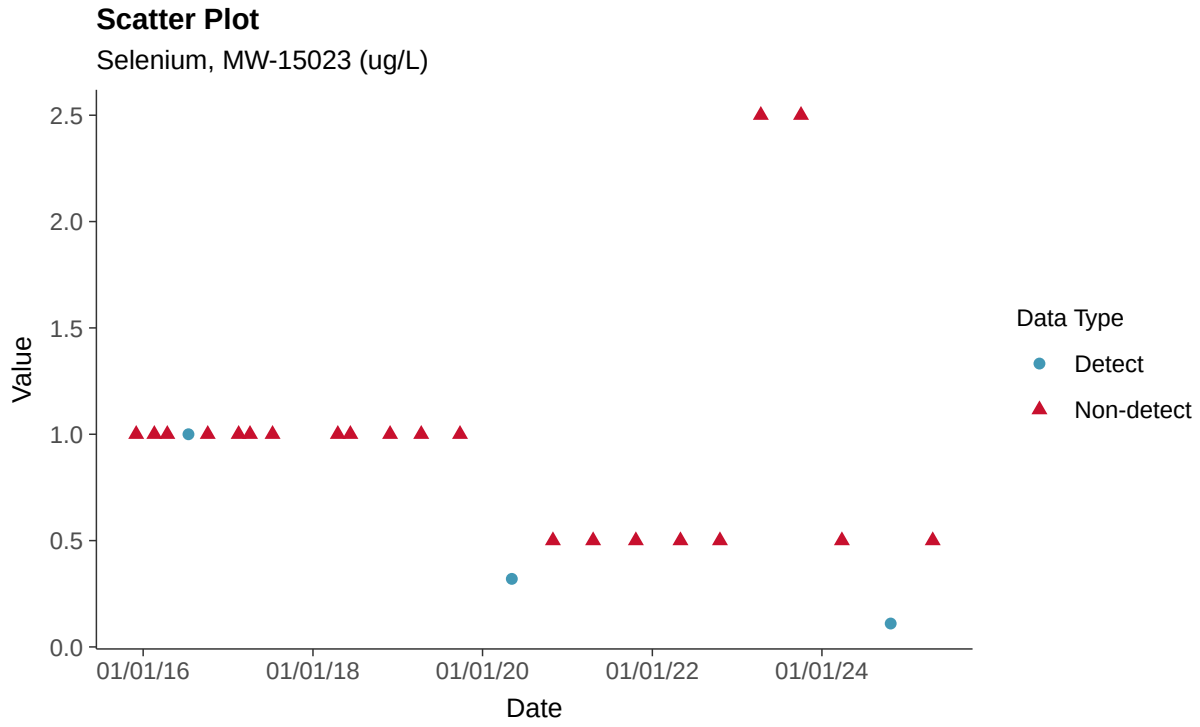
Trend Regression: Piecewise Linear-Linear-Linear

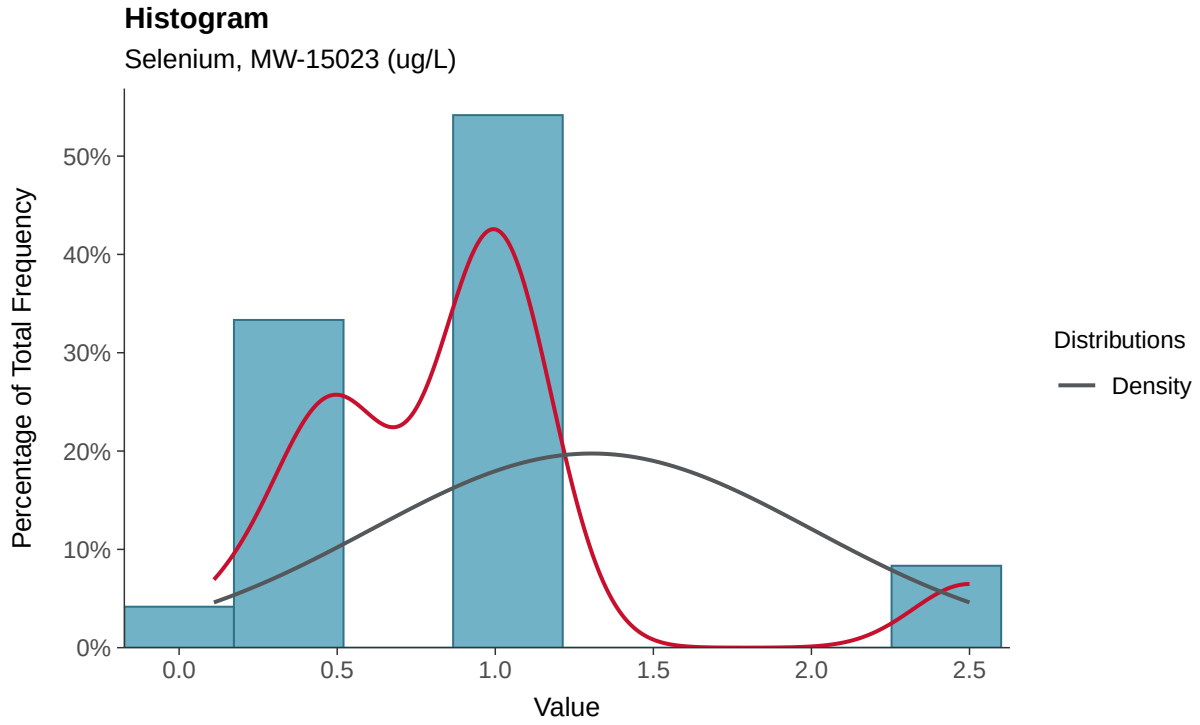
Radium-226+228, MW-15023 (pCi/L)



Appendix IV: Selenium, MW-15023

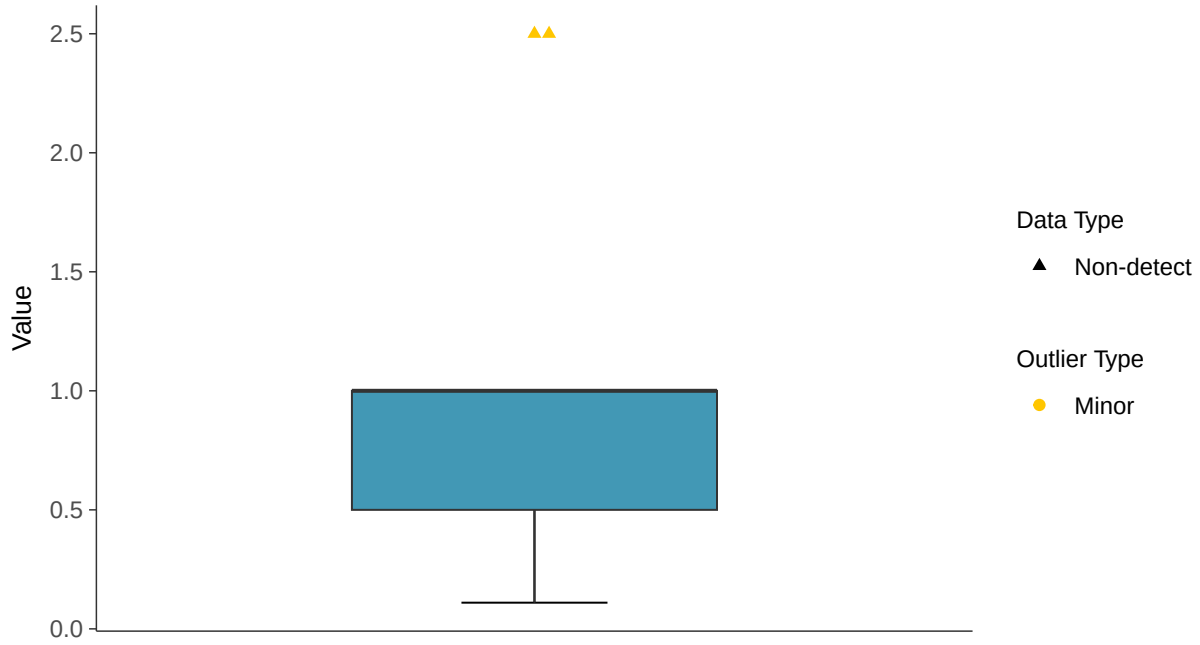
ID: 13_2_127





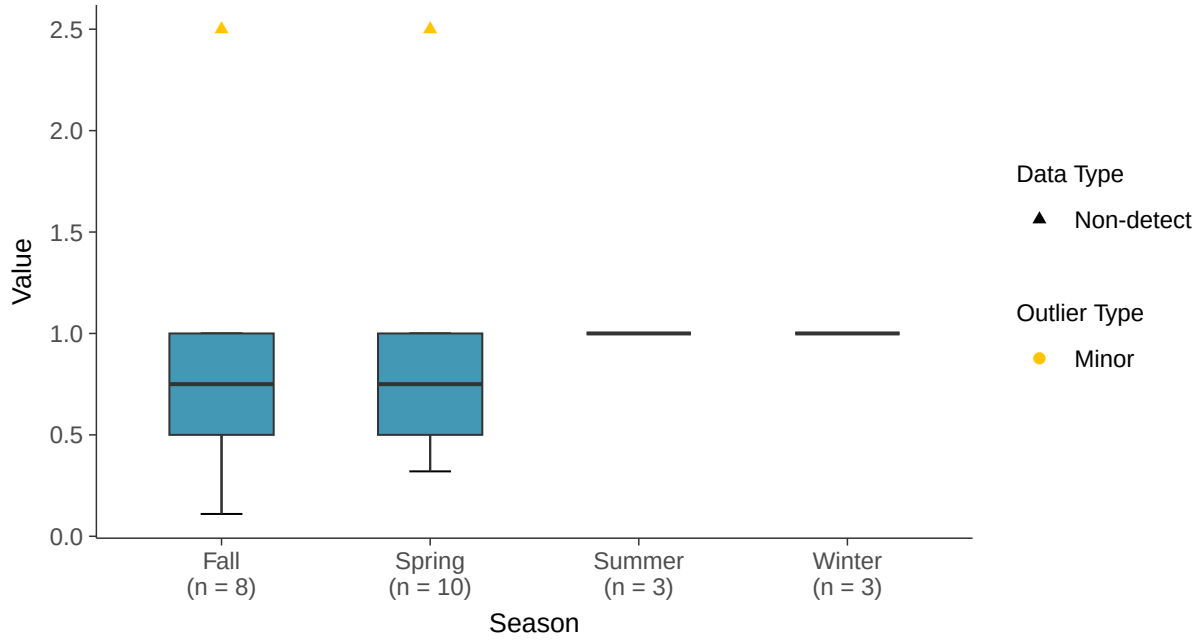
Boxplot

Selenium, MW-15023 (ug/L)



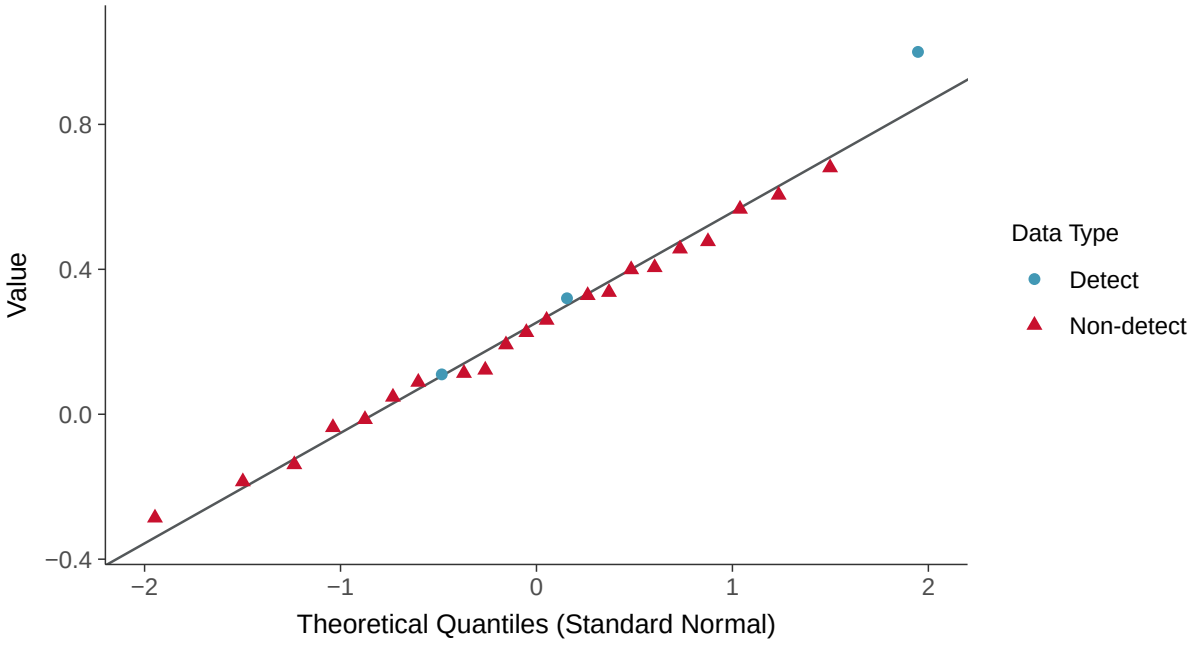
Boxplot by Season

Selenium, MW-15023 (ug/L)



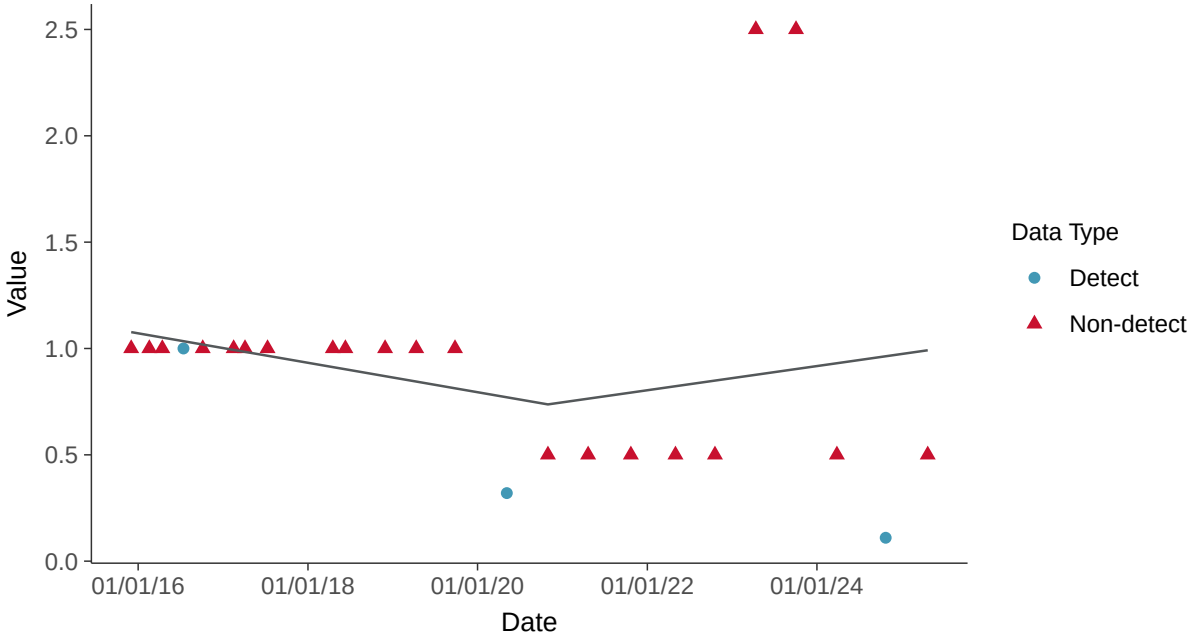
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-15023 (ug/L)



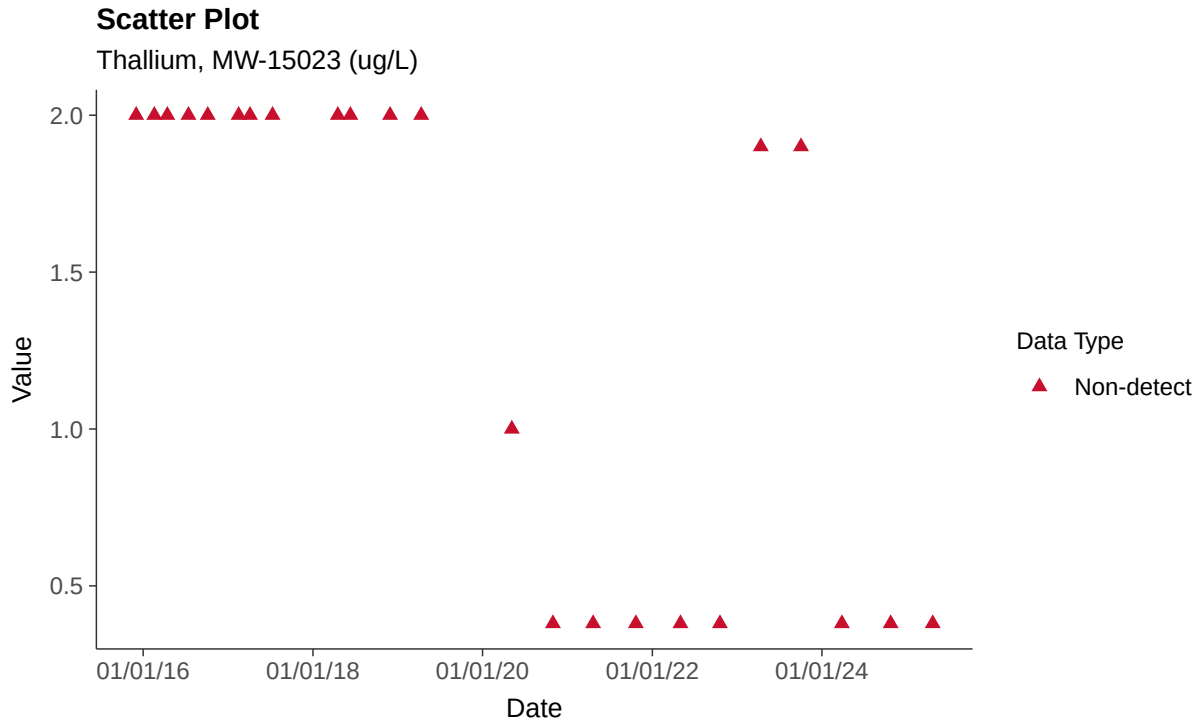
Trend Regression: Piecewise Linear-Linear

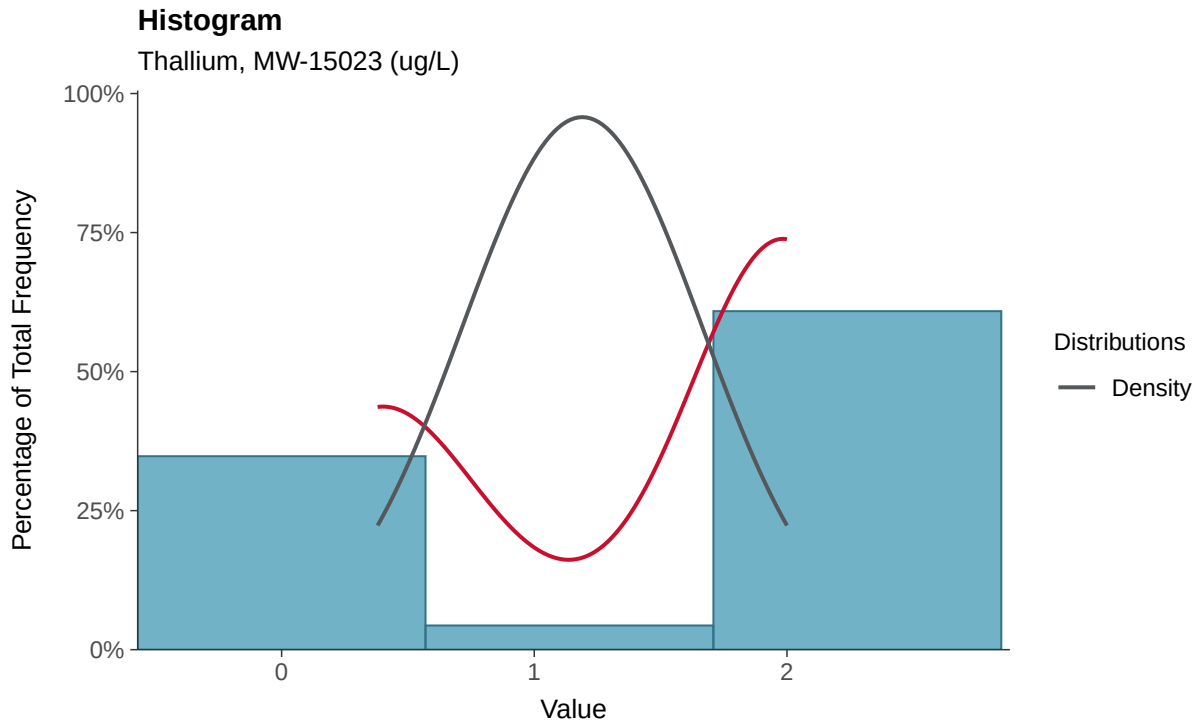
Selenium, MW-15023 (ug/L)



Appendix IV: Thallium, MW-15023

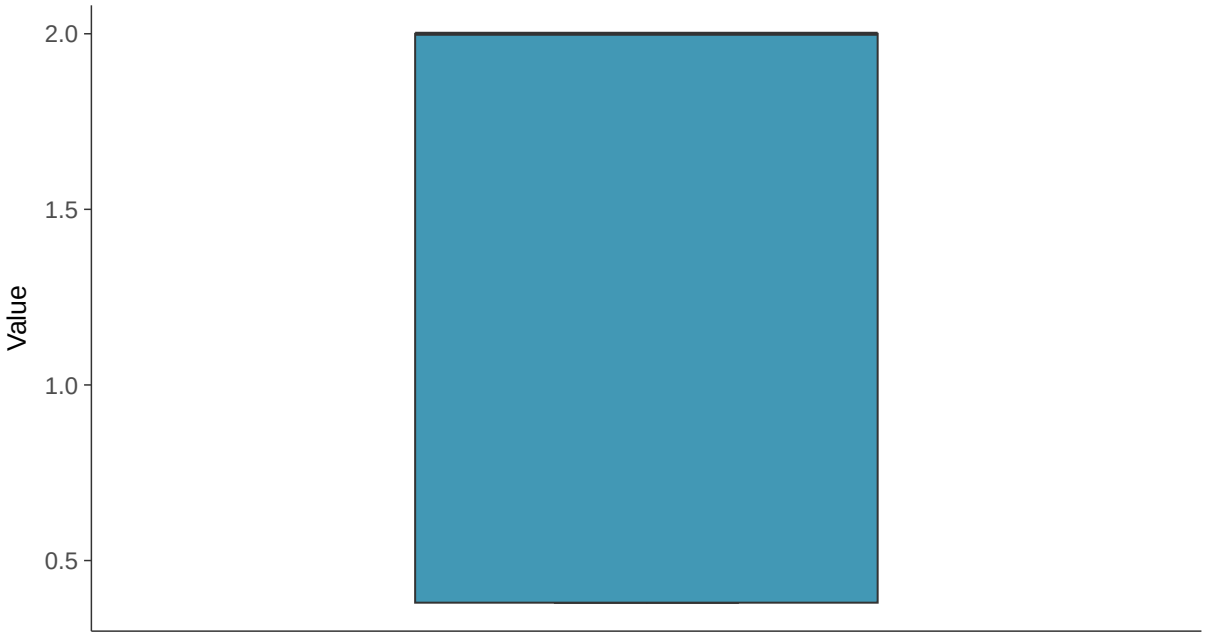
ID: 13_2_131





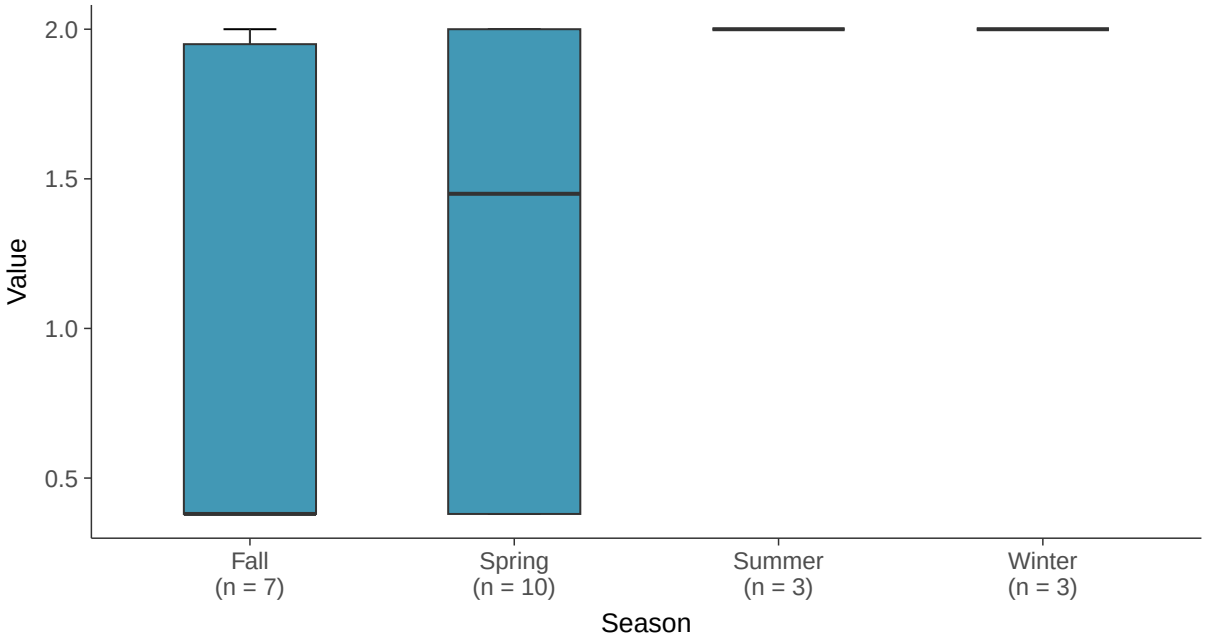
Boxplot

Thallium, MW-15023 (ug/L)



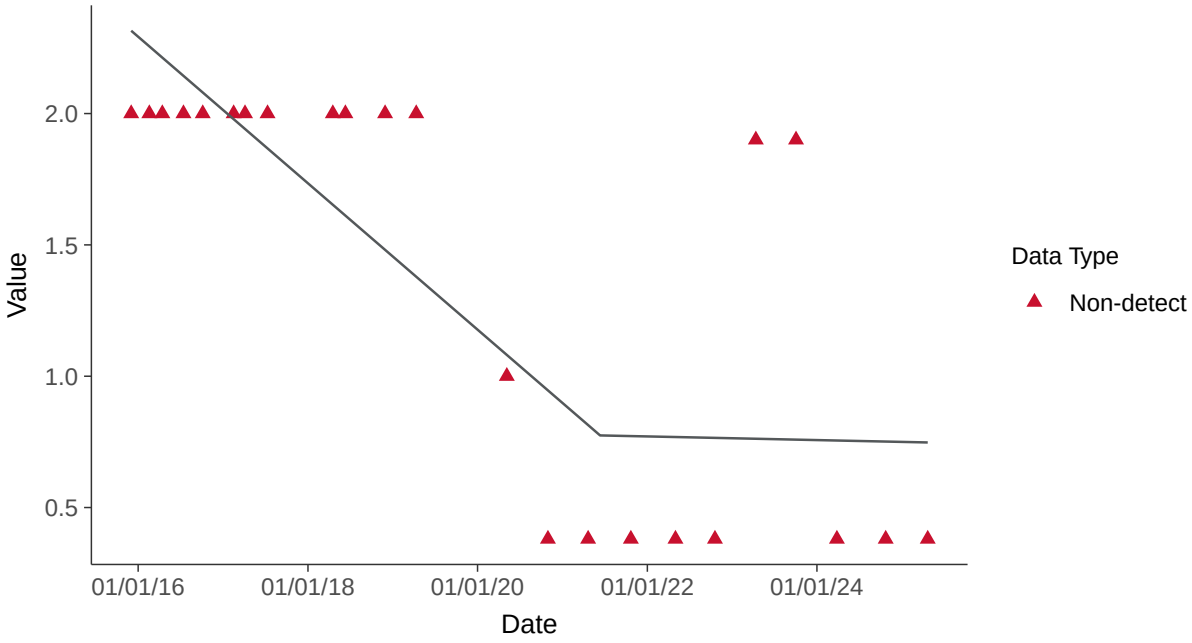
Boxplot by Season

Thallium, MW-15023 (ug/L)



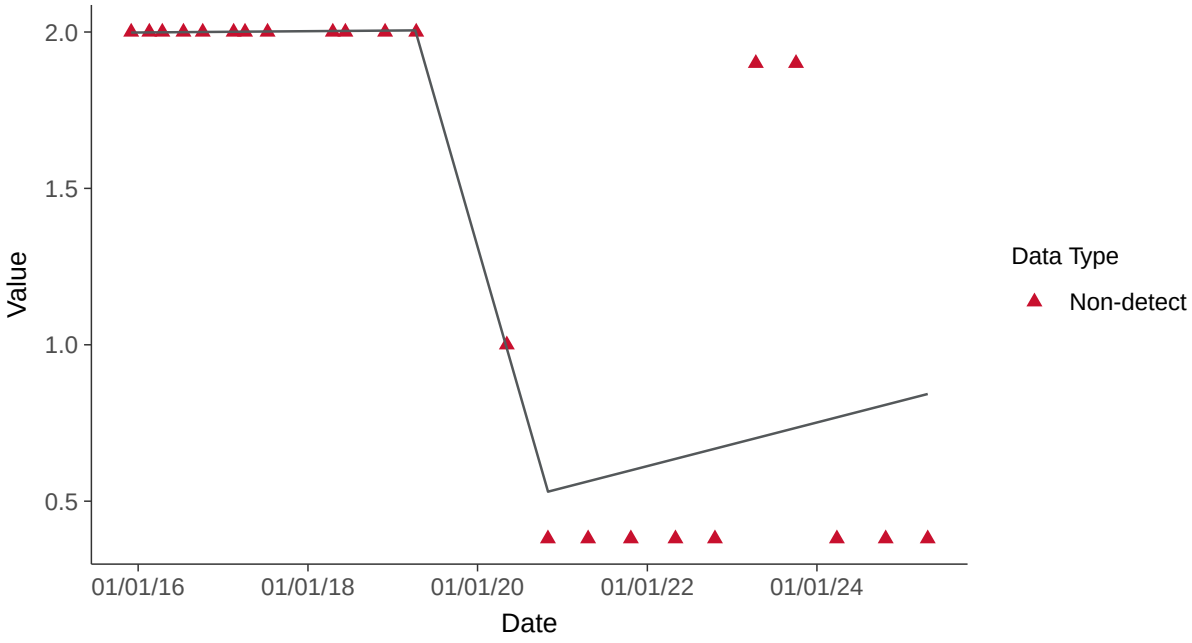
Trend Regression: Piecewise Linear-Linear

Thallium, MW-15023 (ug/L)



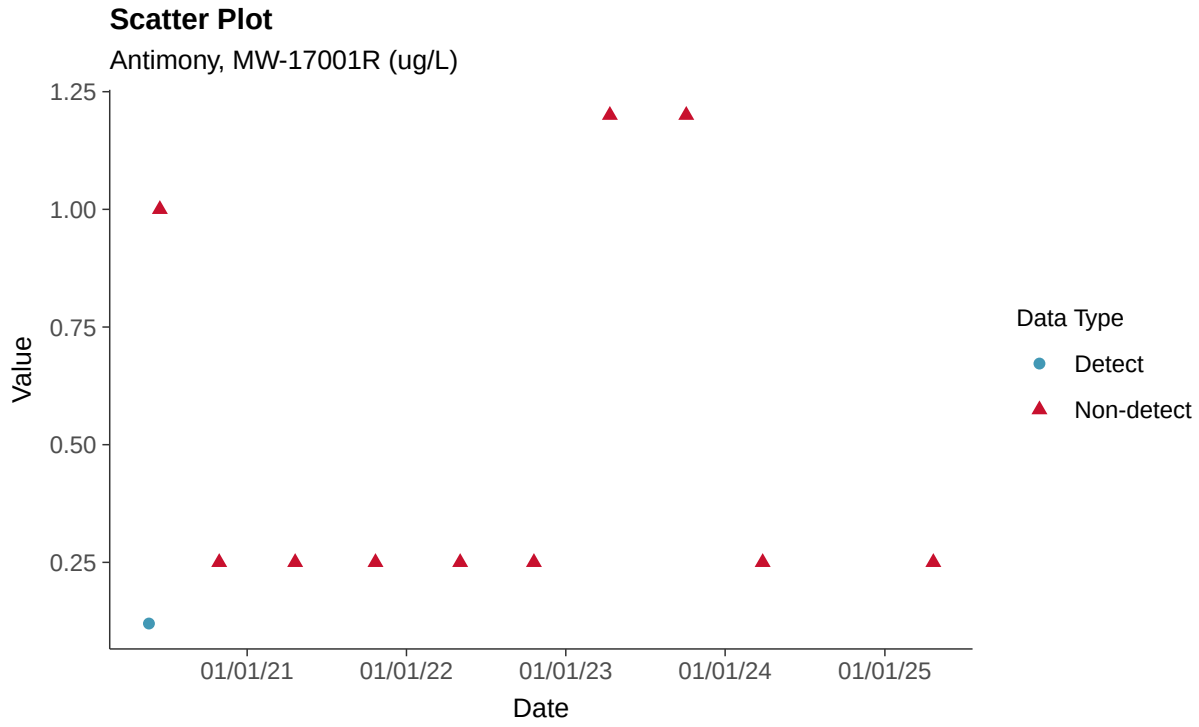
Trend Regression: Piecewise Linear-Linear-Linear

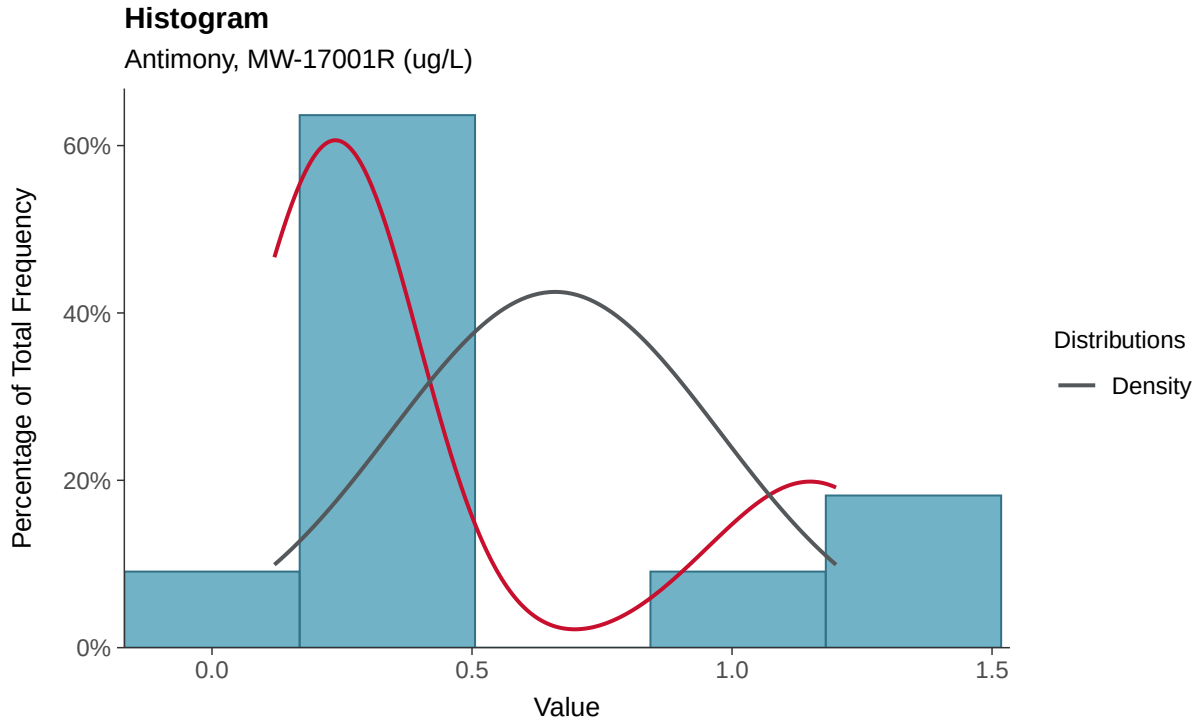
Thallium, MW-15023 (ug/L)



Appendix IV: Antimony, MW-17001R

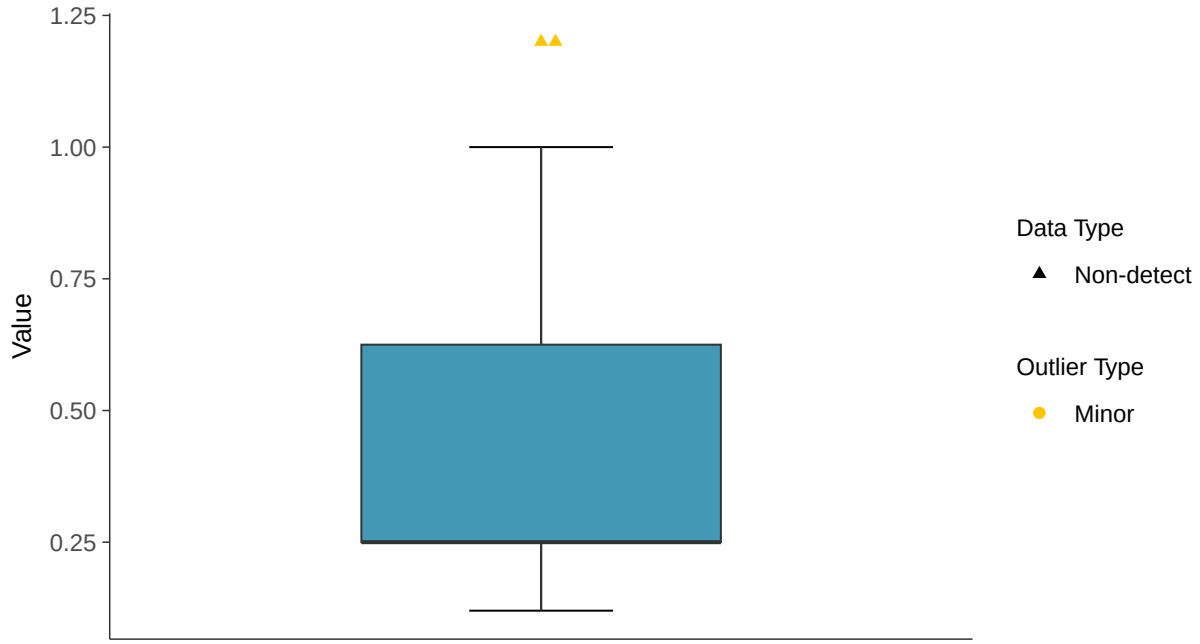
ID: 14_2_101





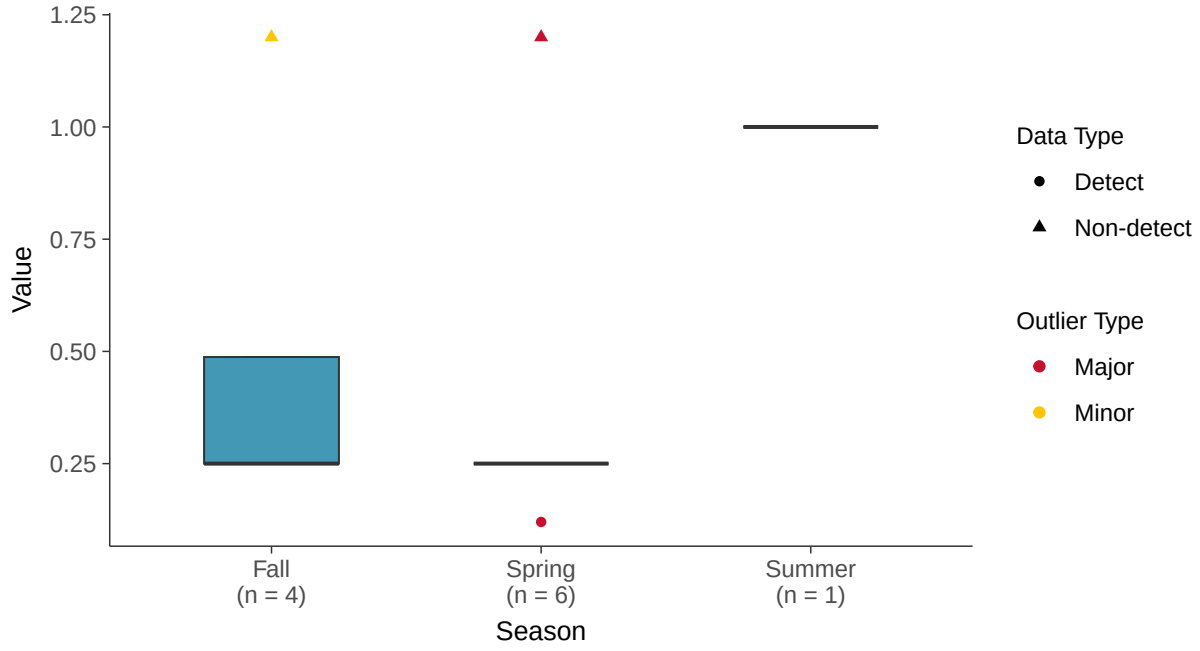
Boxplot

Antimony, MW-17001R (ug/L)



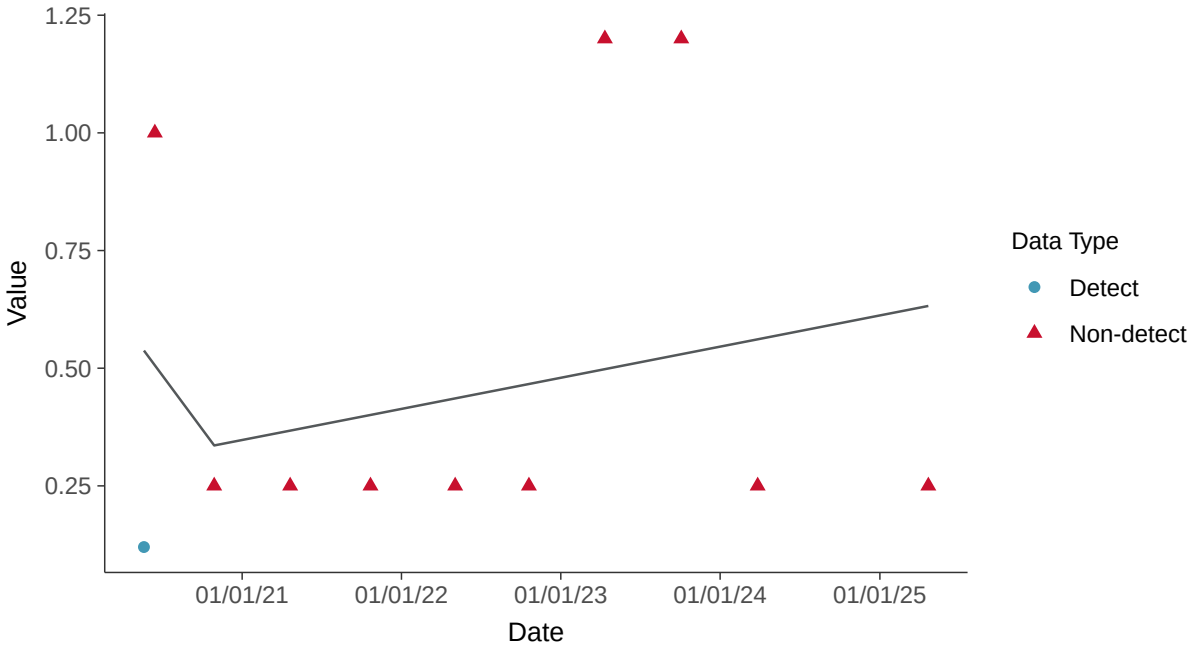
Boxplot by Season

Antimony, MW-17001R (ug/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-17001R (ug/L)

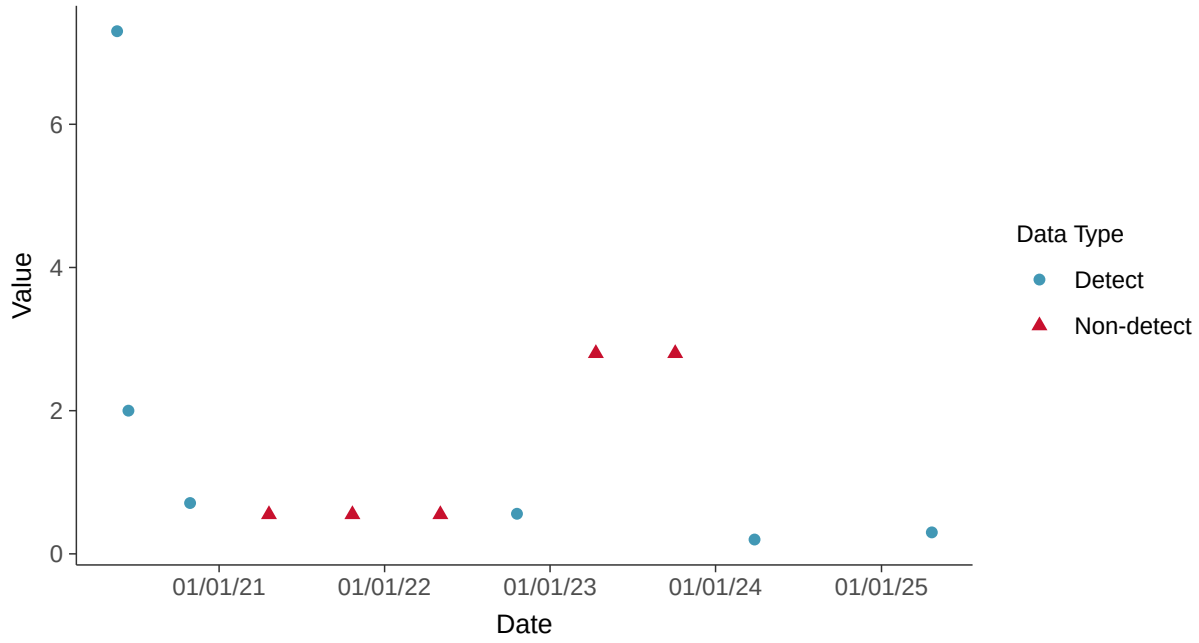


Appendix IV: Arsenic, MW-17001R

ID: 14_2_102

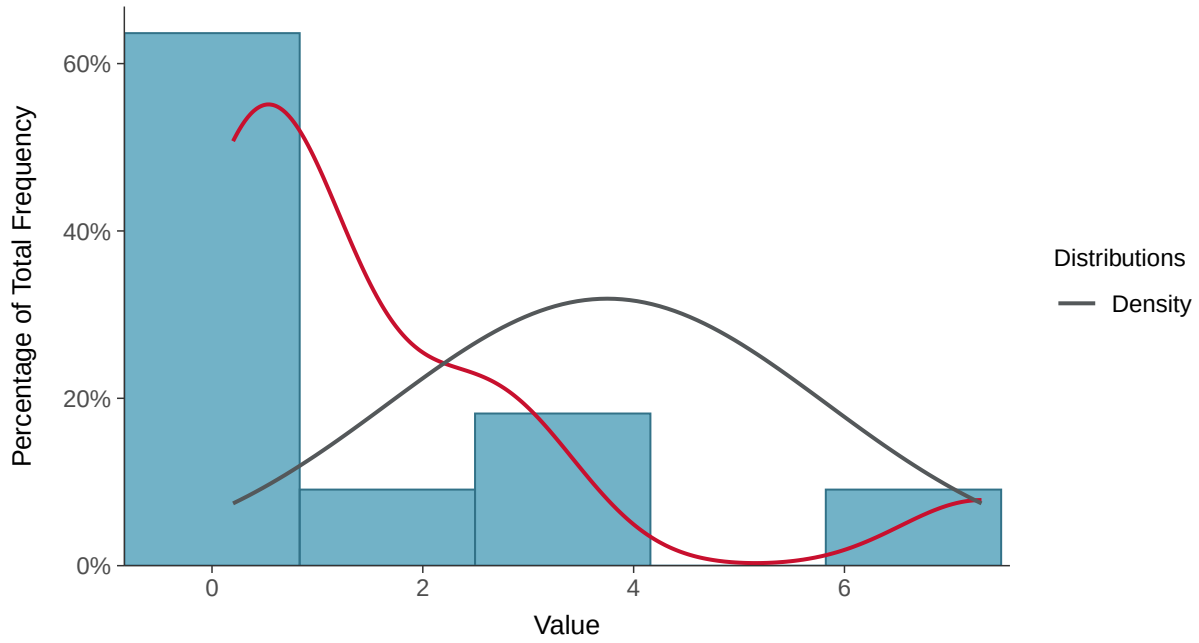
Scatter Plot

Arsenic, MW-17001R (ug/L)



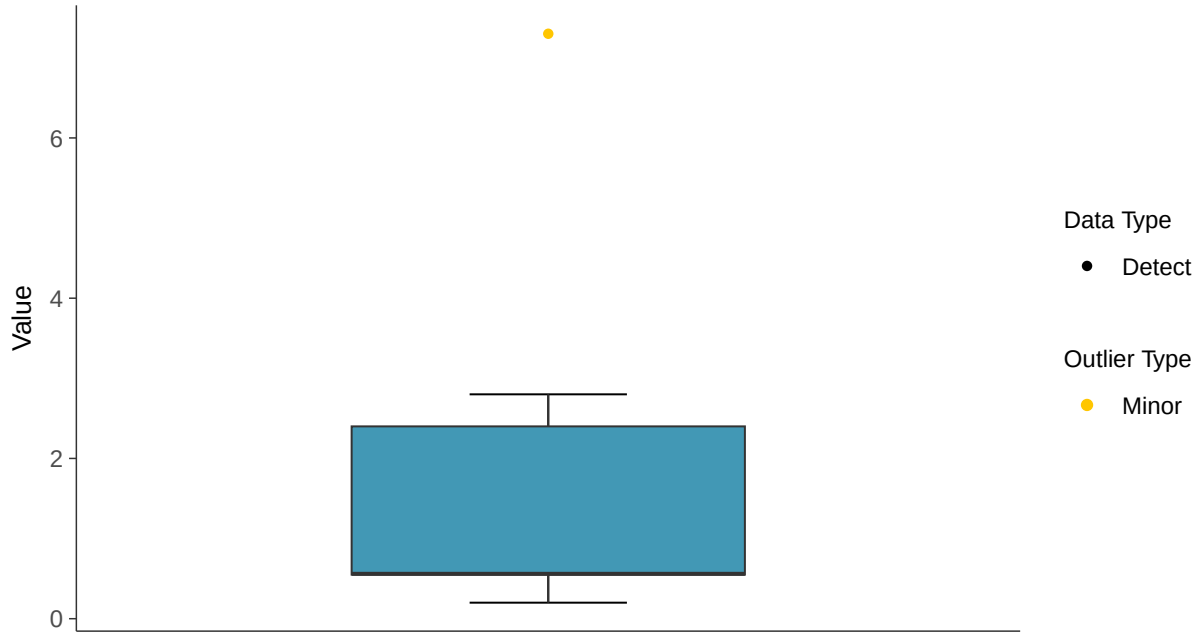
Histogram

Arsenic, MW-17001R (ug/L)



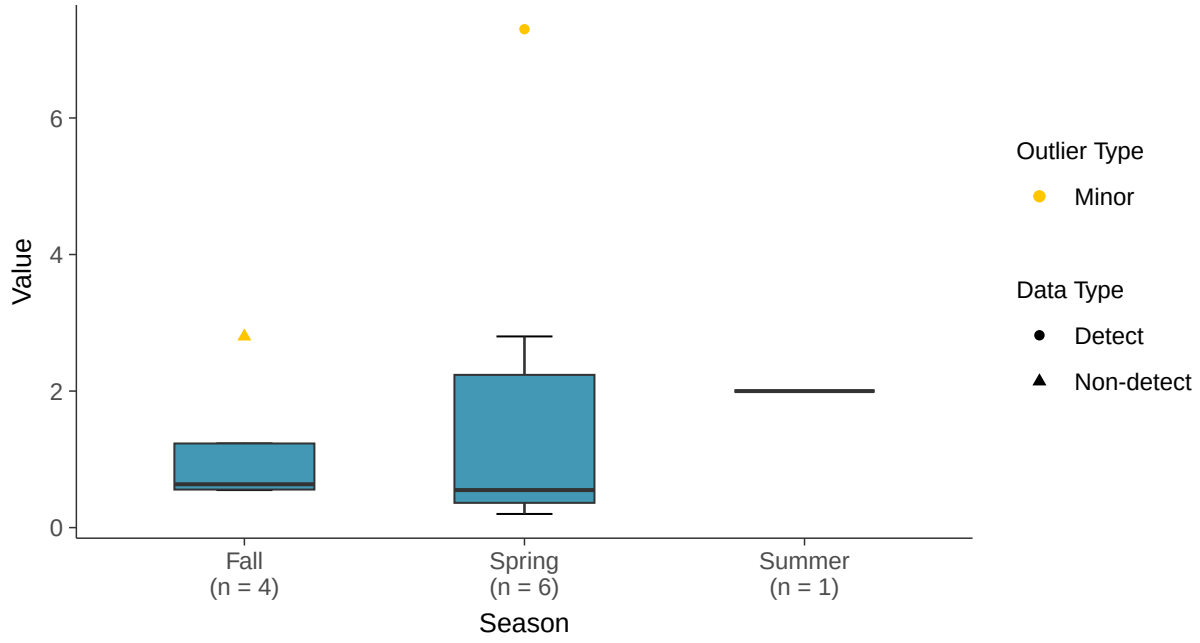
Boxplot

Arsenic, MW-17001R (ug/L)



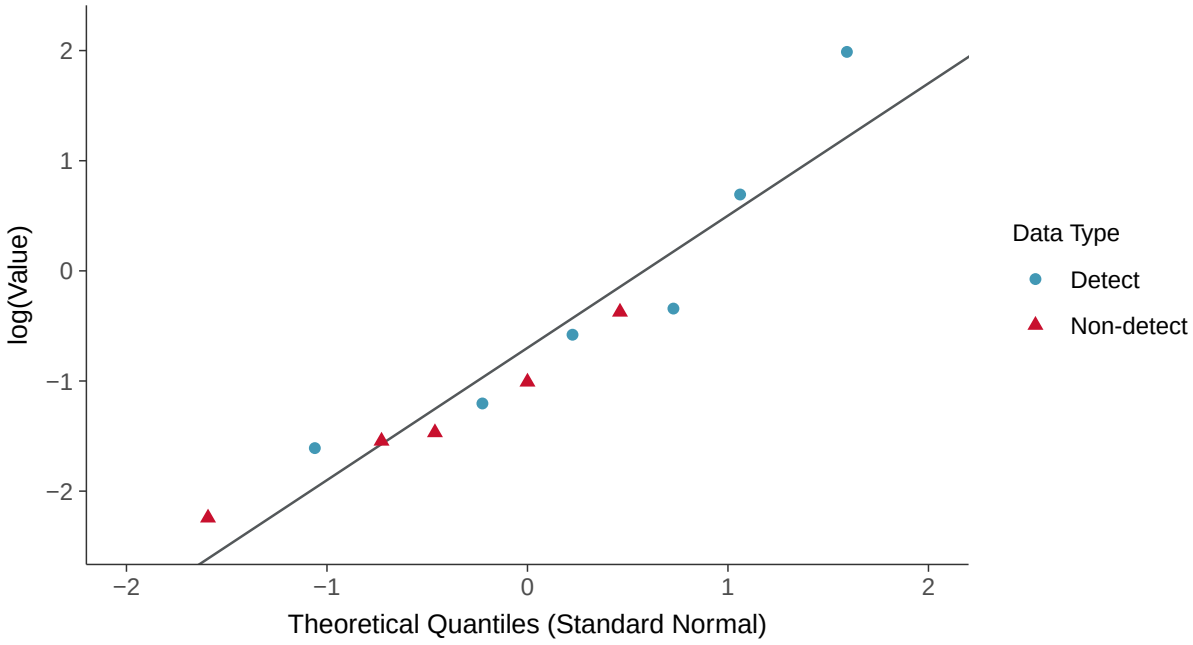
Boxplot by Season

Arsenic, MW-17001R (ug/L)



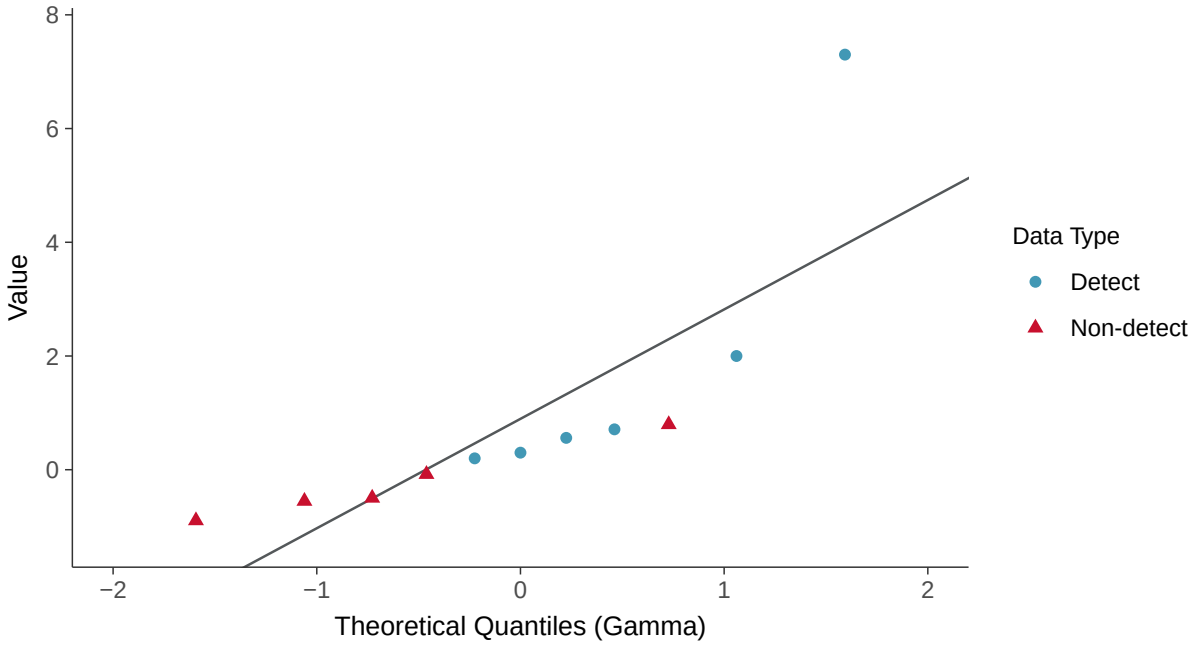
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-17001R (ug/L)



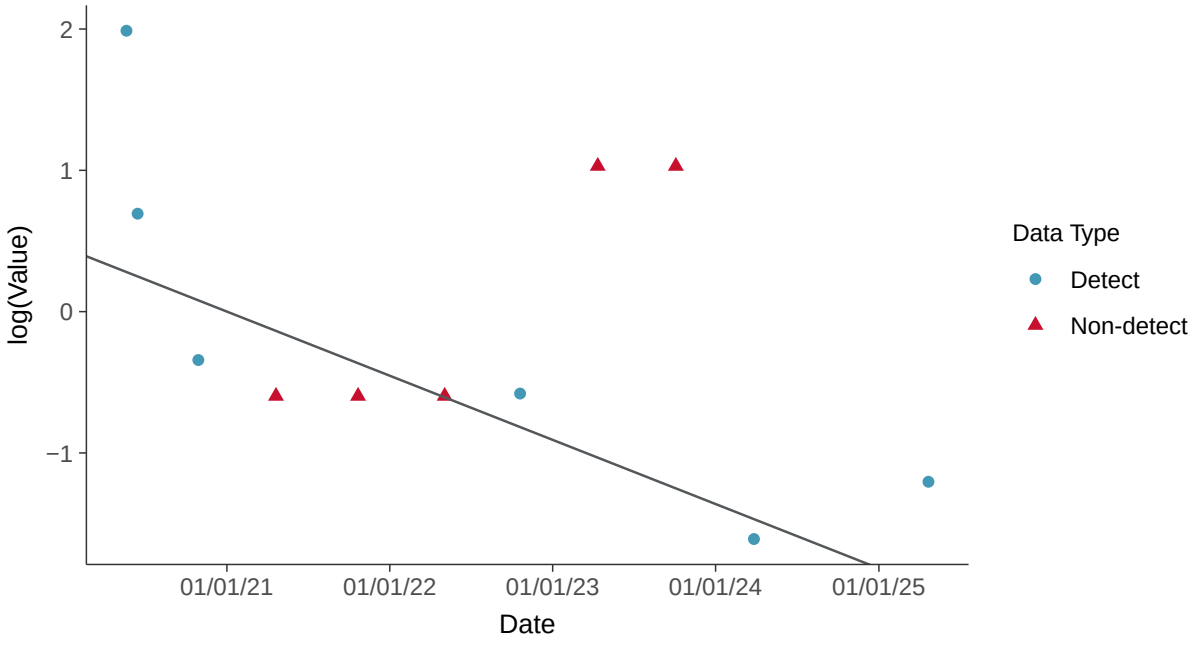
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-17001R (ug/L)



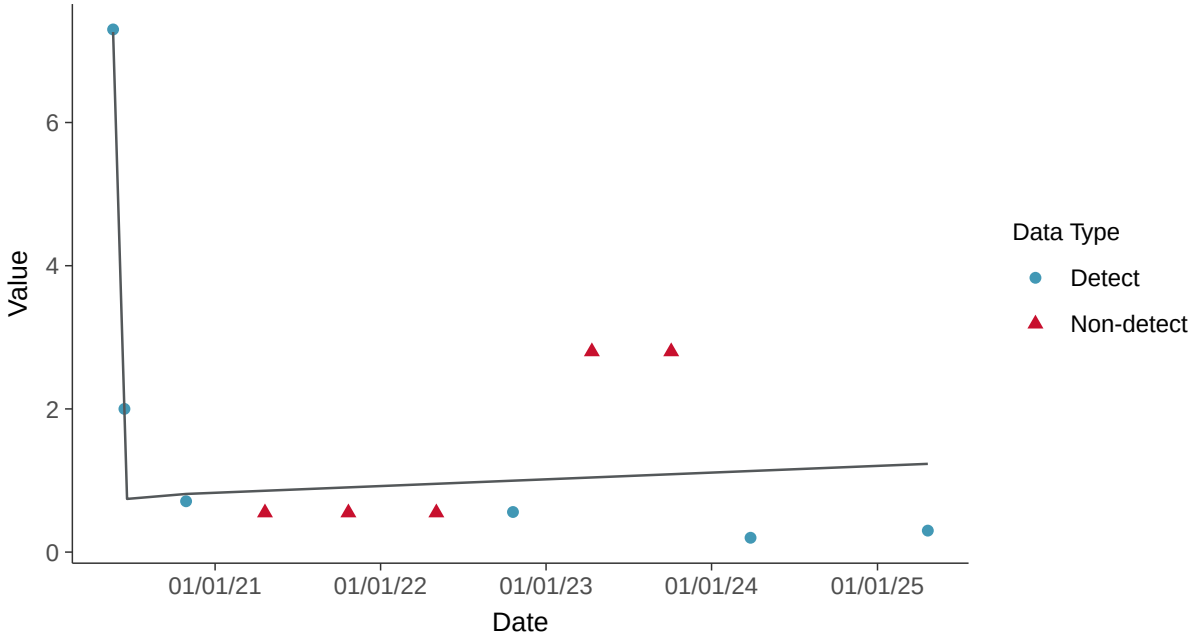
Trend Regression: Lognormal MLE

Arsenic, MW-17001R (ug/L)



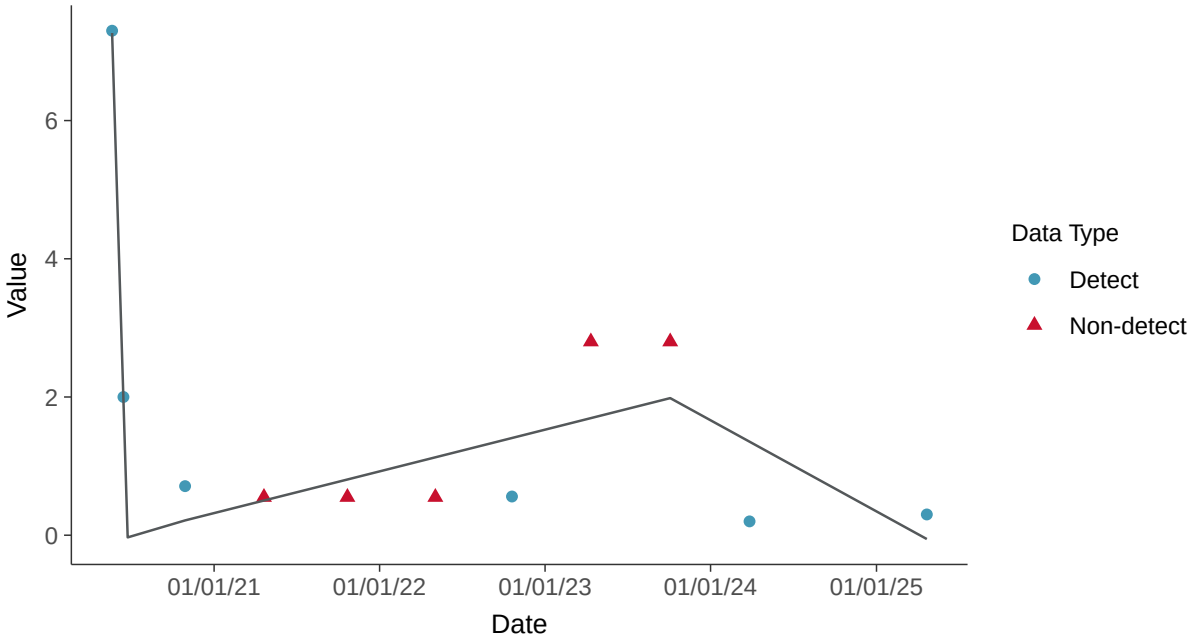
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-17001R (ug/L)



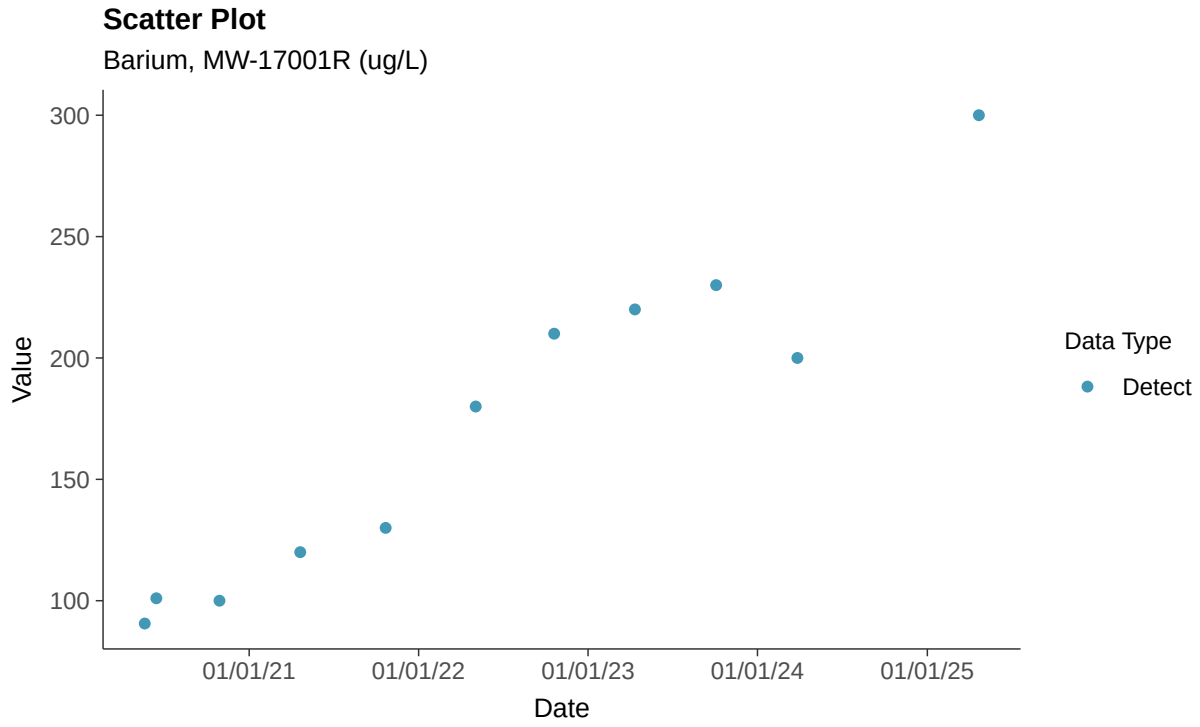
Trend Regression: Piecewise Linear-Linear-Linear

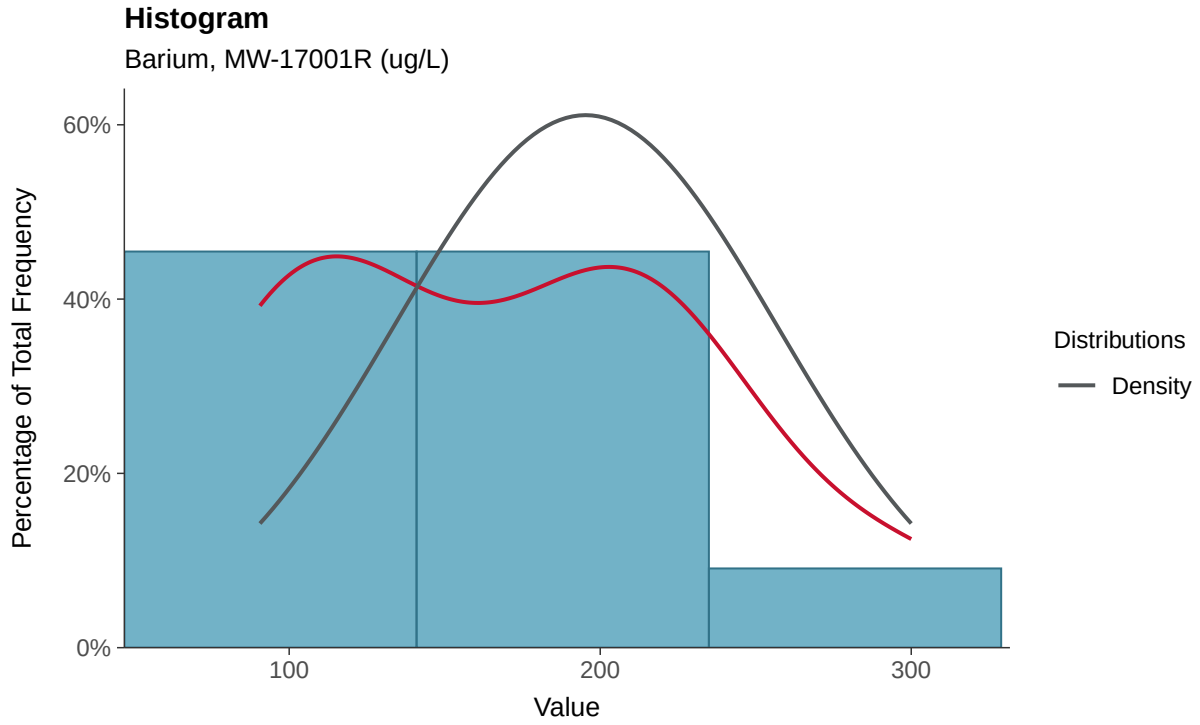
Arsenic, MW-17001R (ug/L)



Appendix IV: Barium, MW-17001R

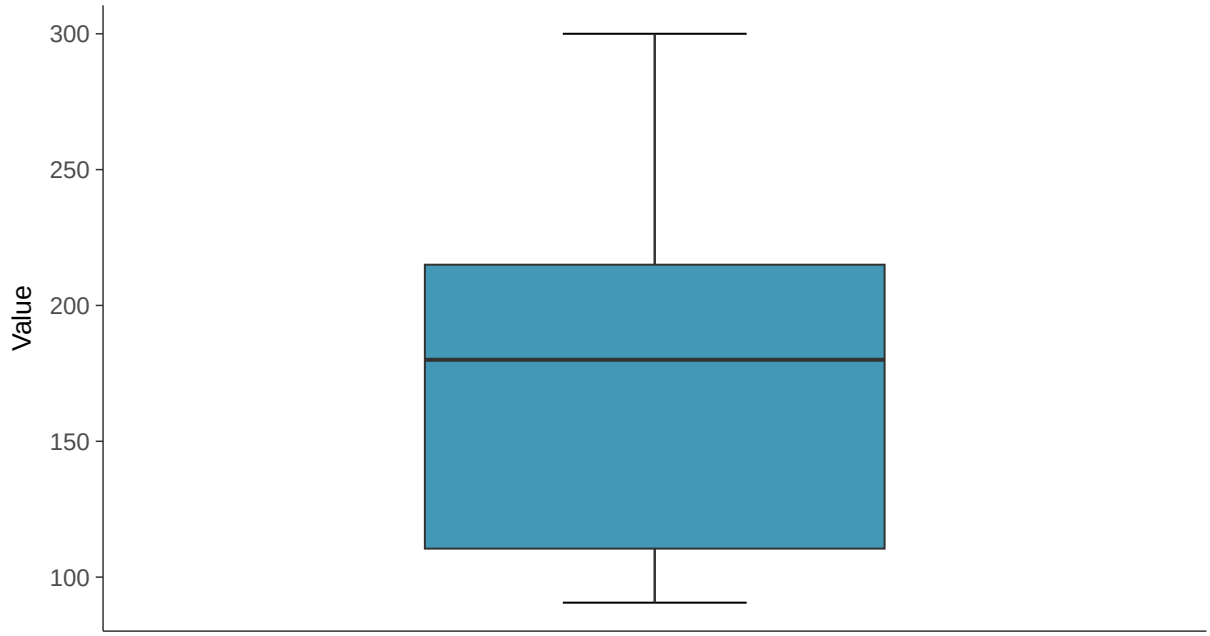
ID: 14_2_103





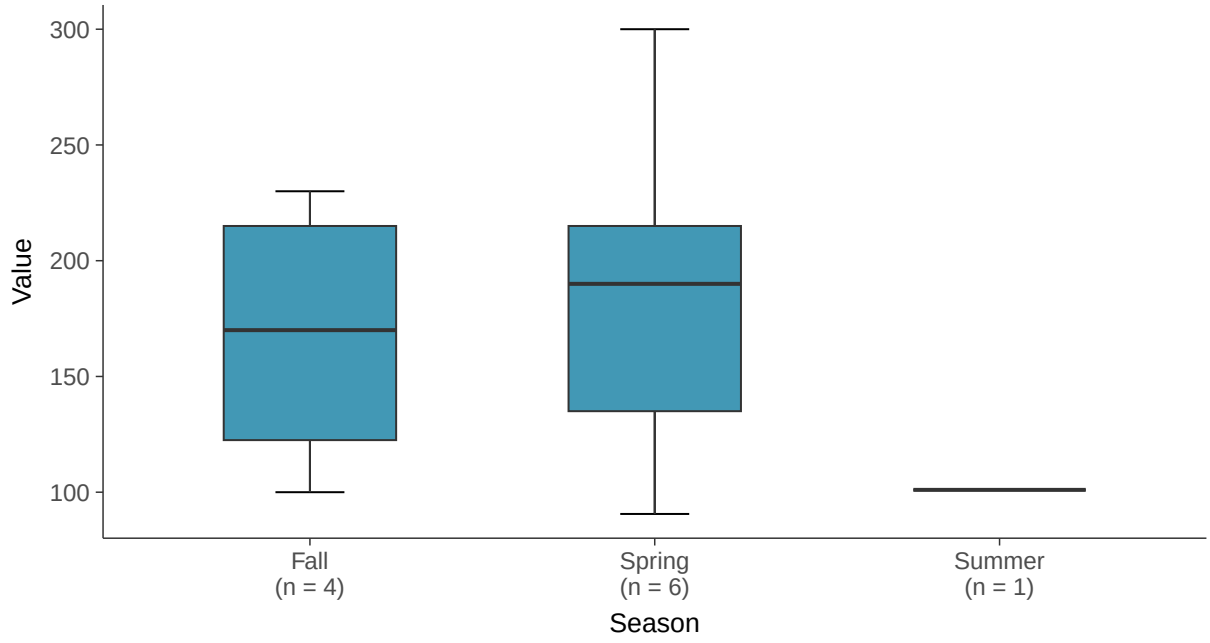
Boxplot

Barium, MW-17001R (ug/L)



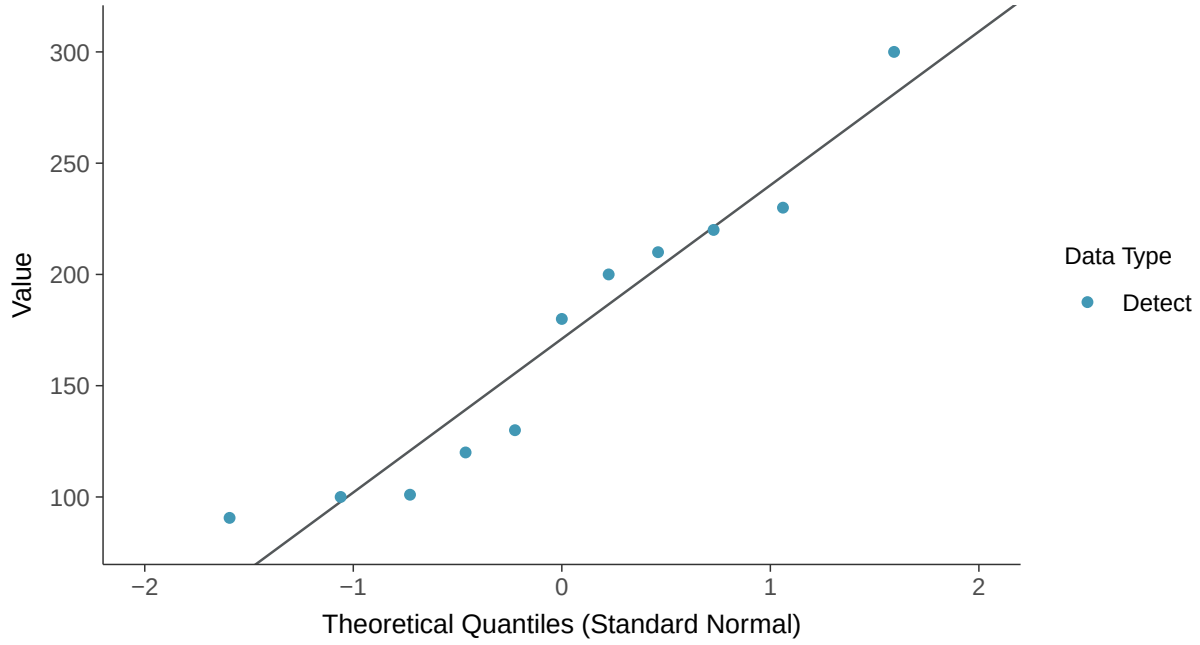
Boxplot by Season

Barium, MW-17001R (ug/L)



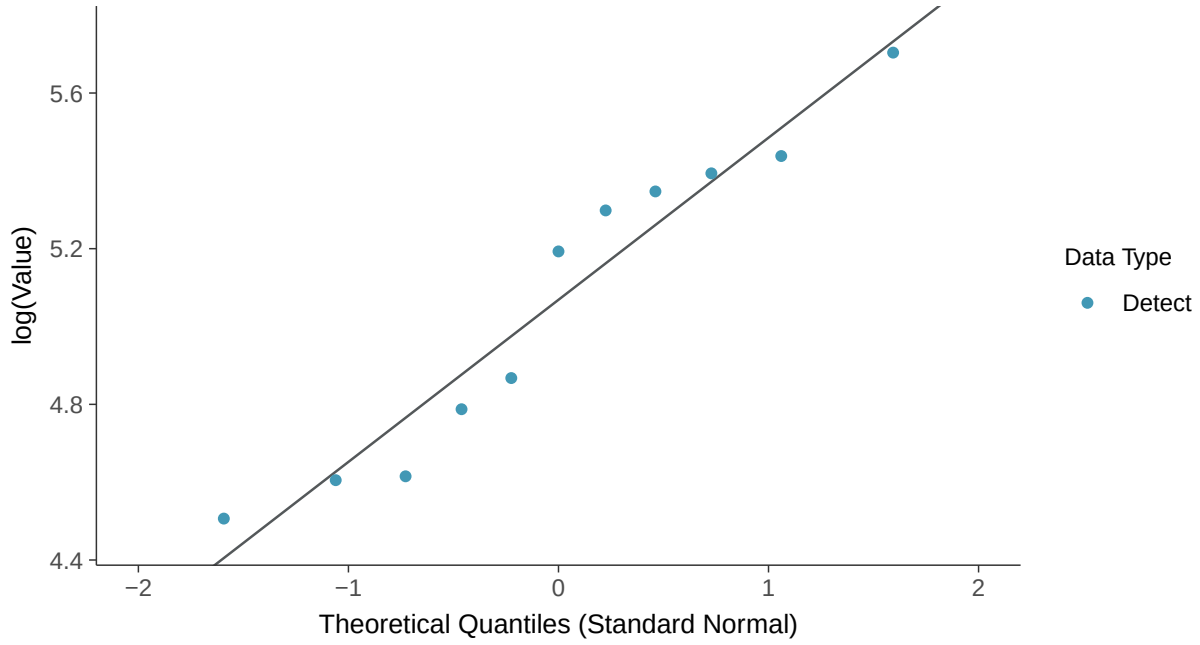
Normal Q-Q plot

Barium, MW-17001R (ug/L)



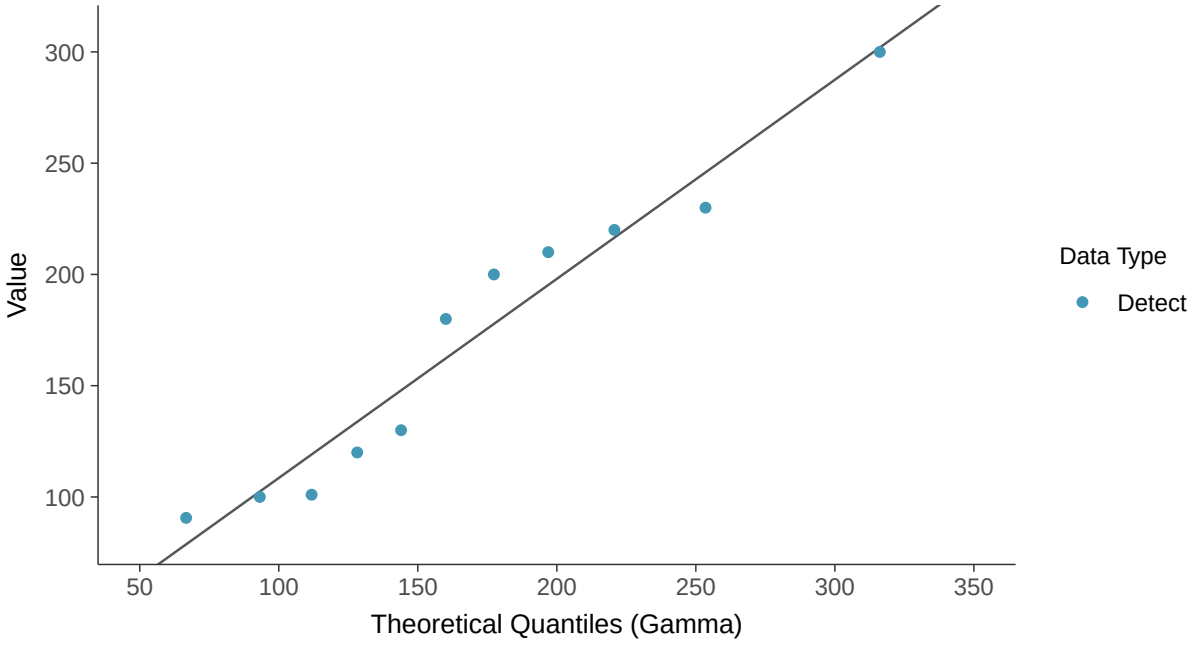
Lognormal Q-Q plot

Barium, MW-17001R (ug/L)



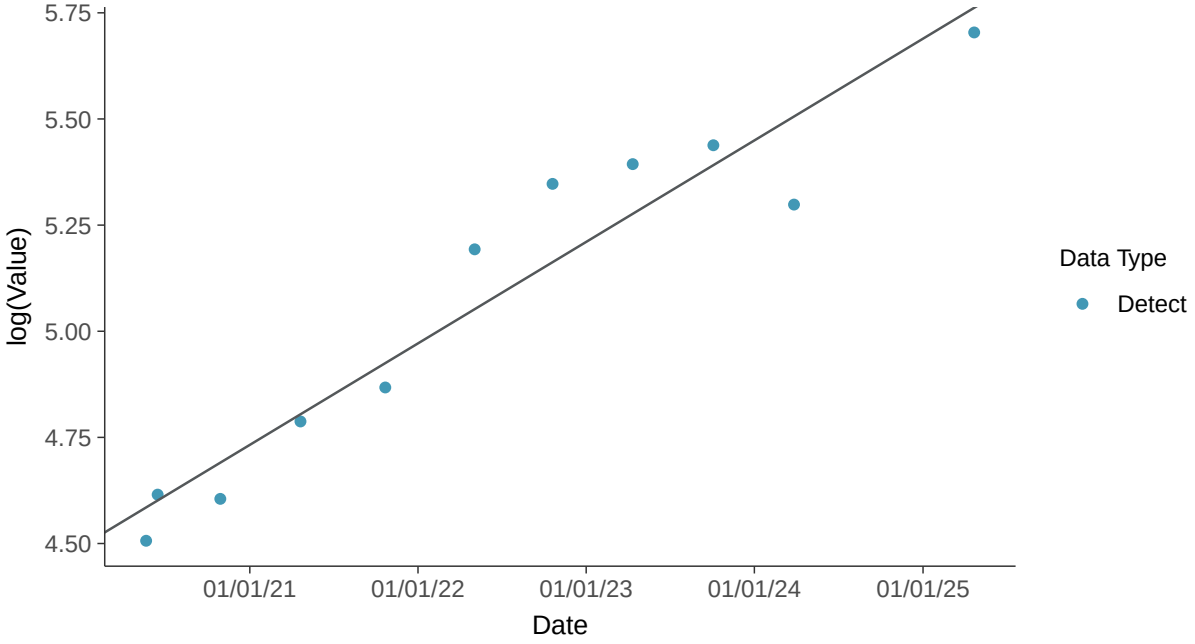
Gamma Q-Q plot

Barium, MW-17001R (ug/L)



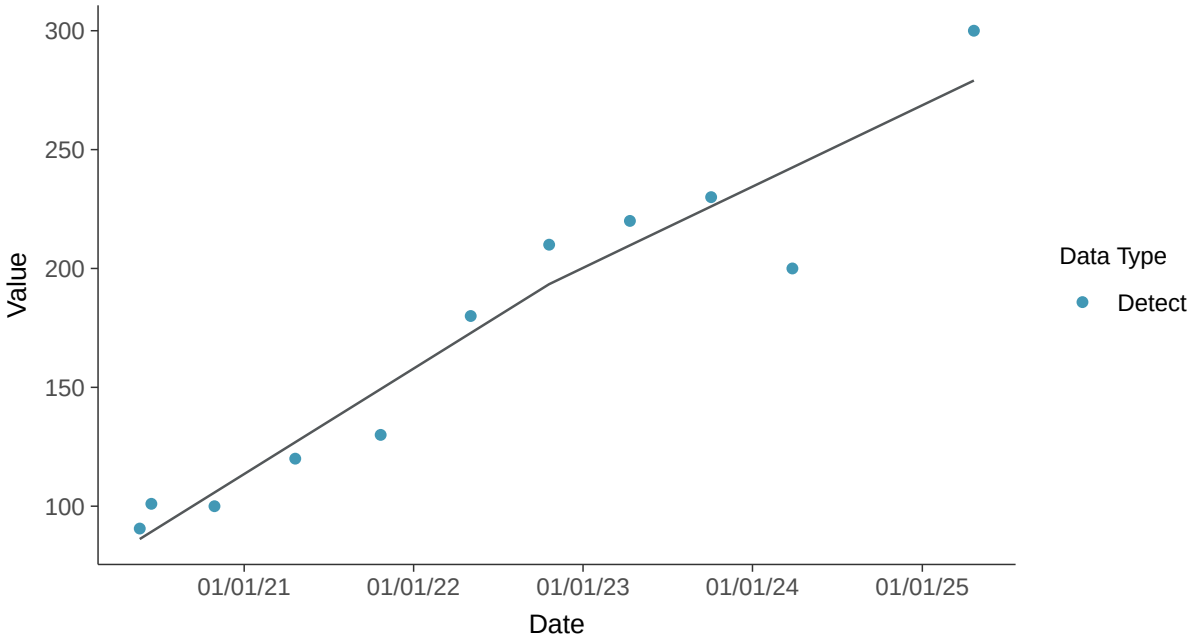
Trend Regression: Lognormal MLE

Barium, MW-17001R (ug/L)



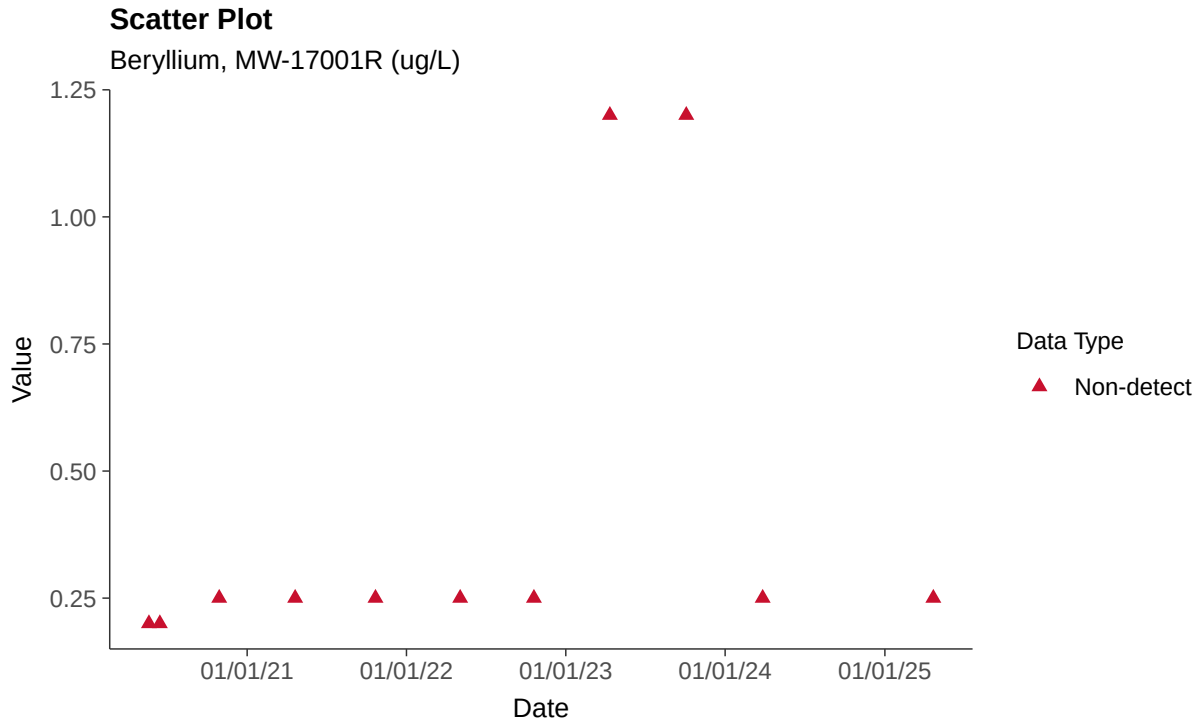
Trend Regression: Piecewise Linear-Linear

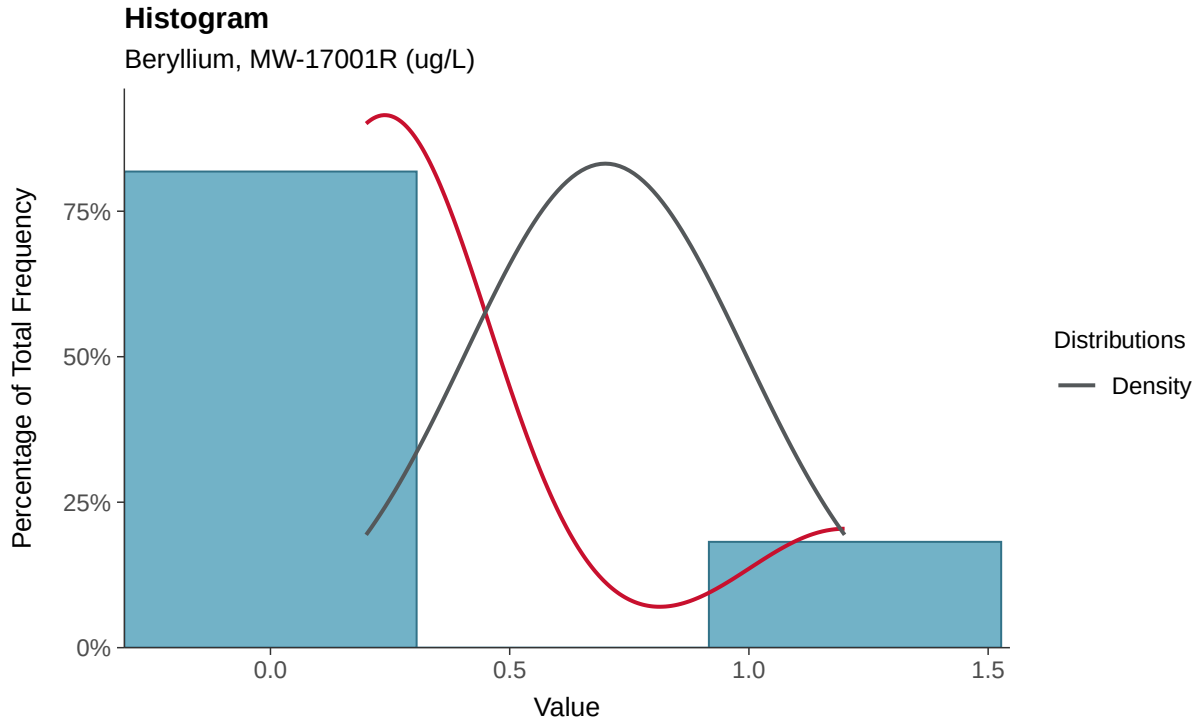
Barium, MW-17001R (ug/L)



Appendix IV: Beryllium, MW-17001R

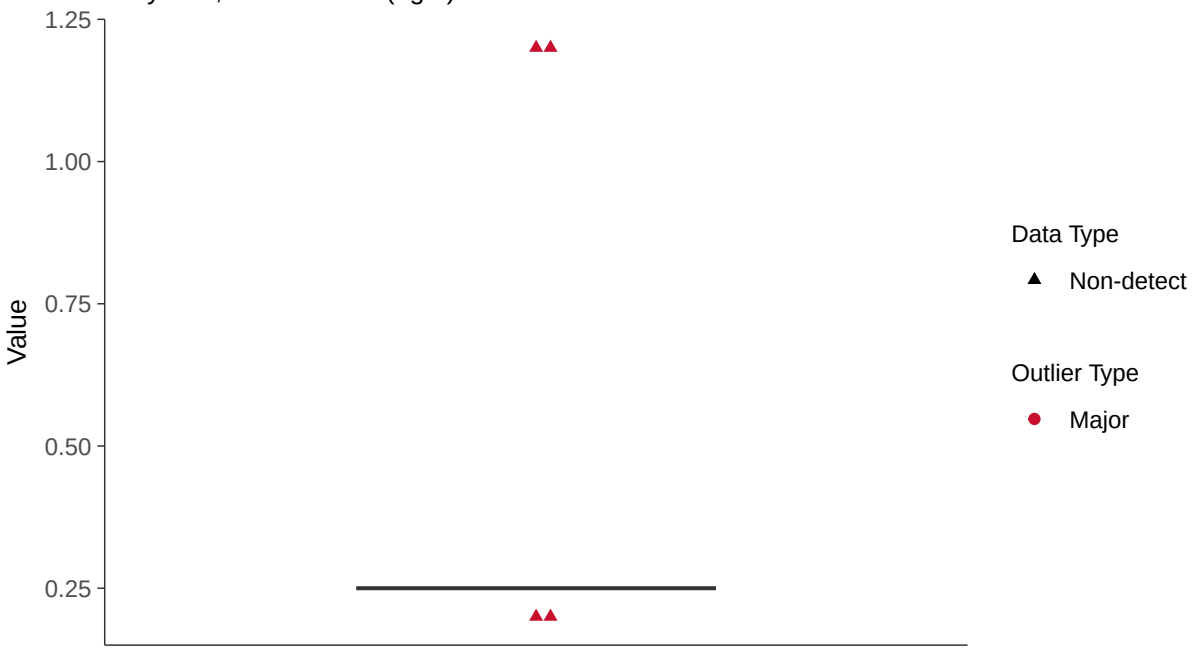
ID: 14_2_104





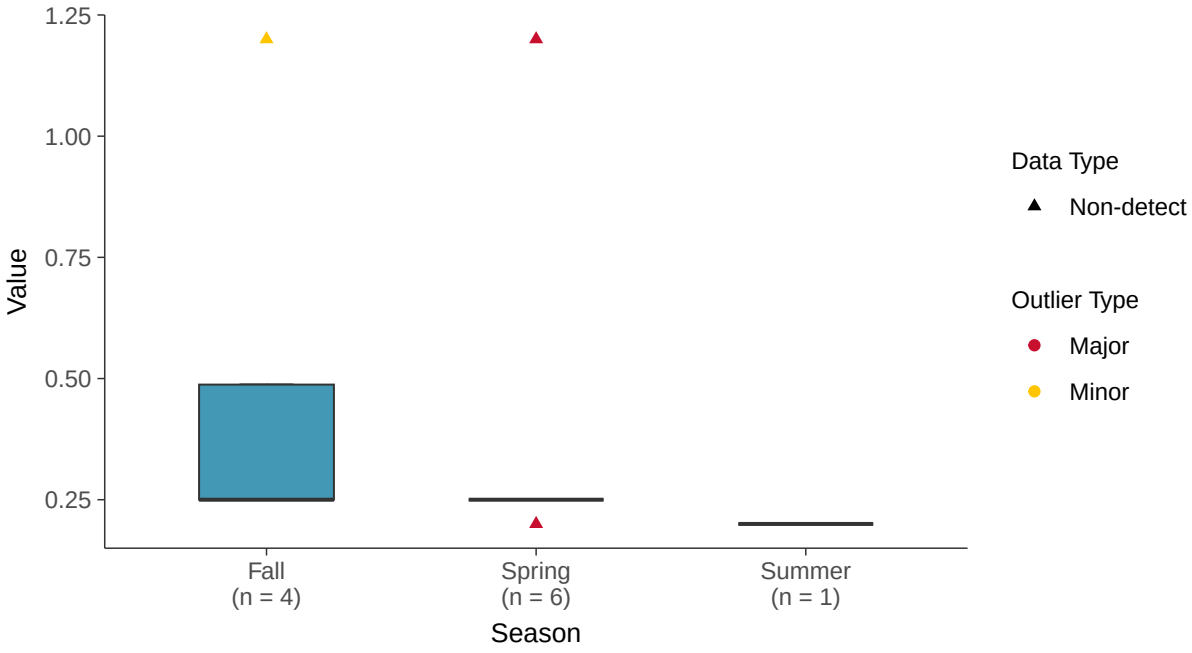
Boxplot

Beryllium, MW-17001R (ug/L)



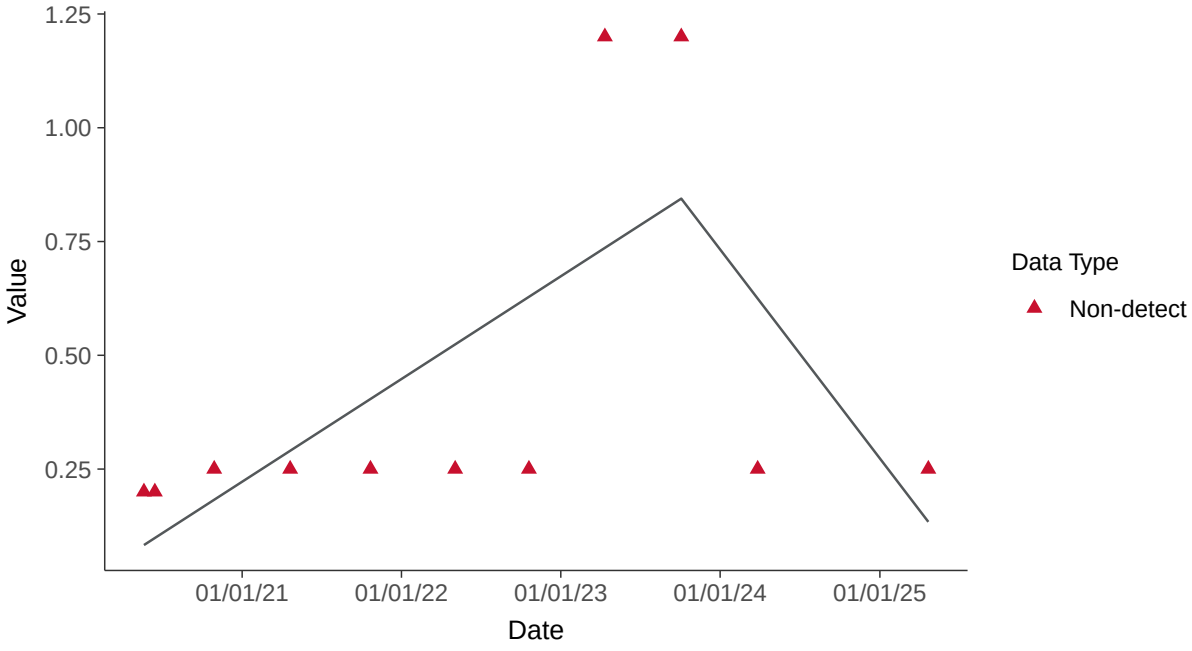
Boxplot by Season

Beryllium, MW-17001R (ug/L)



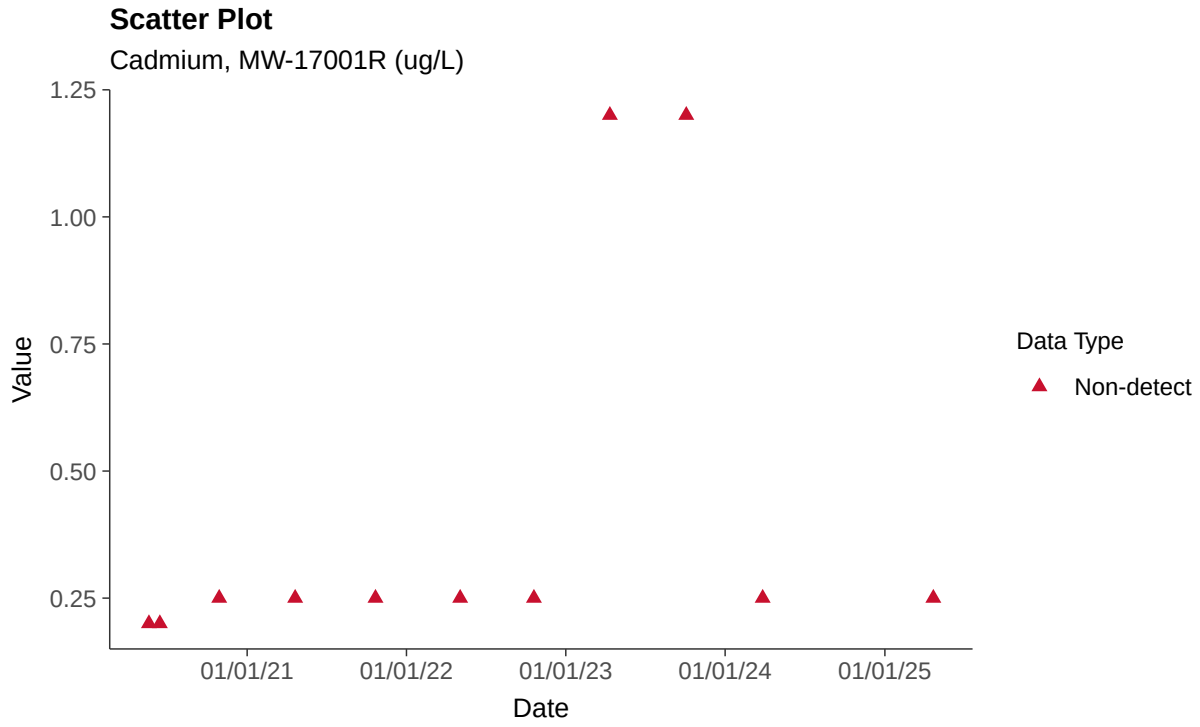
Trend Regression: Piecewise Linear-Linear

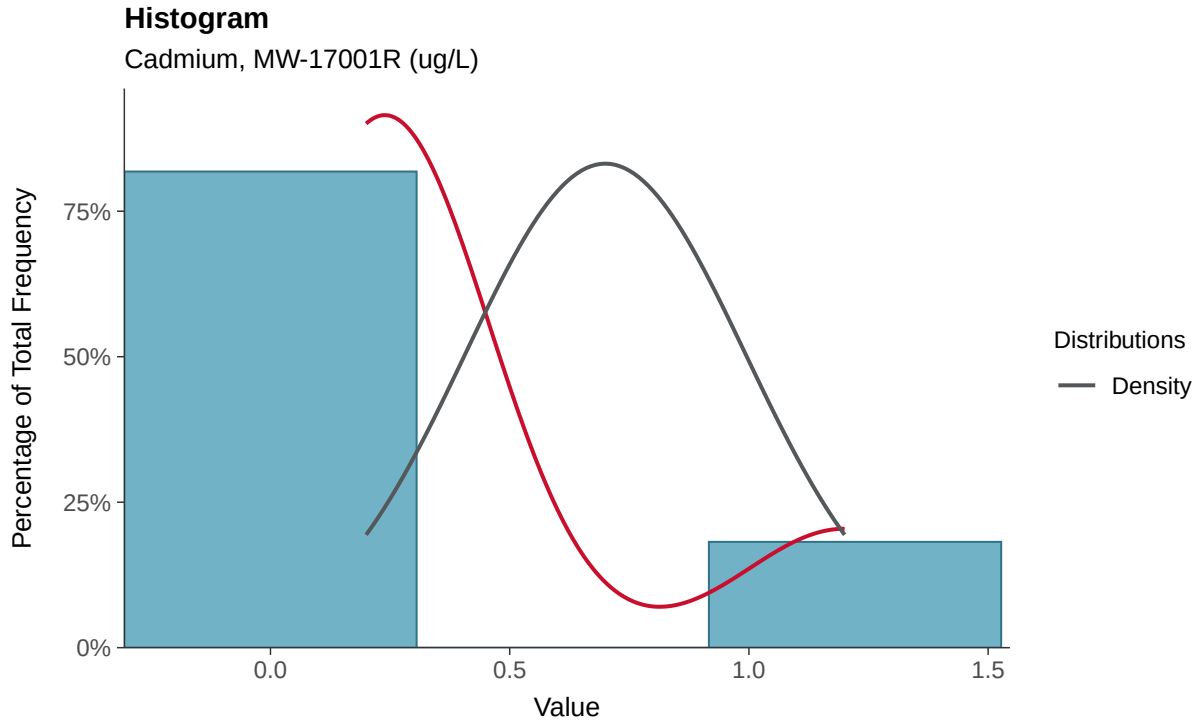
Beryllium, MW-17001R (ug/L)



Appendix IV: Cadmium, MW-17001R

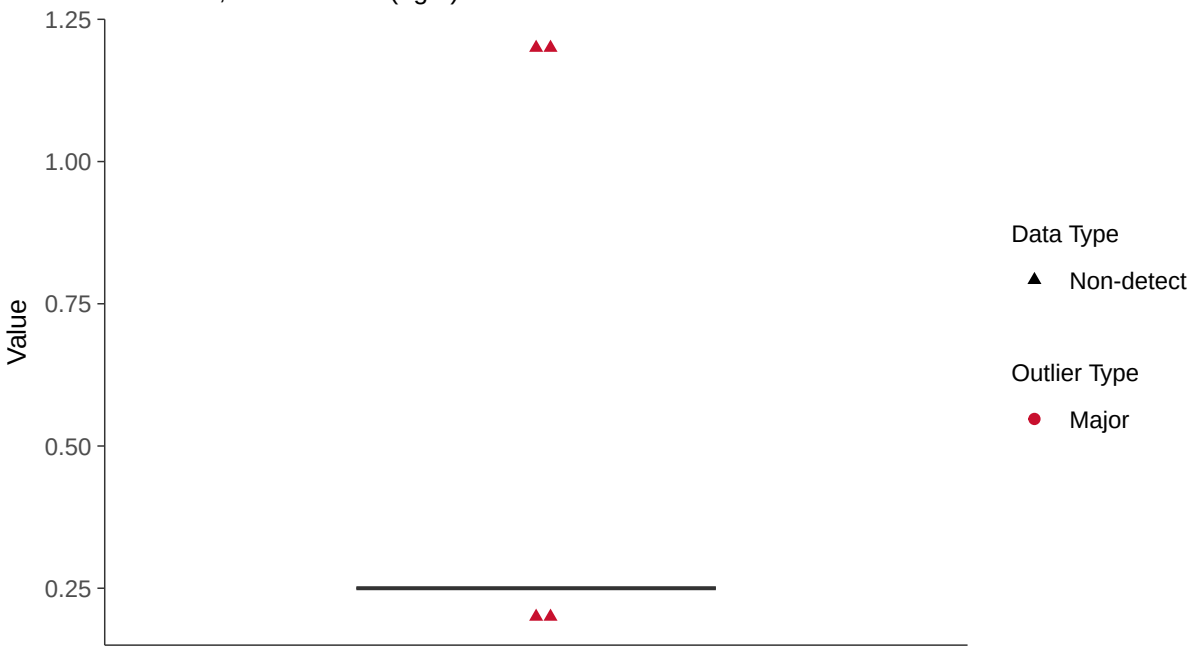
ID: 14_2_106





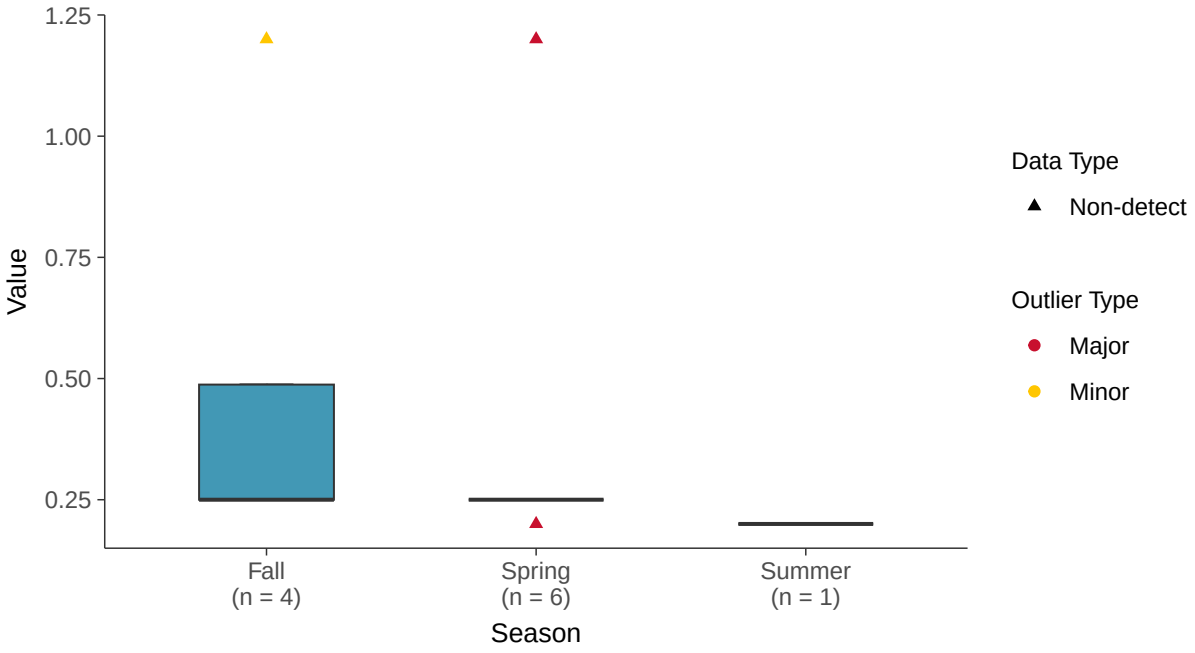
Boxplot

Cadmium, MW-17001R (ug/L)



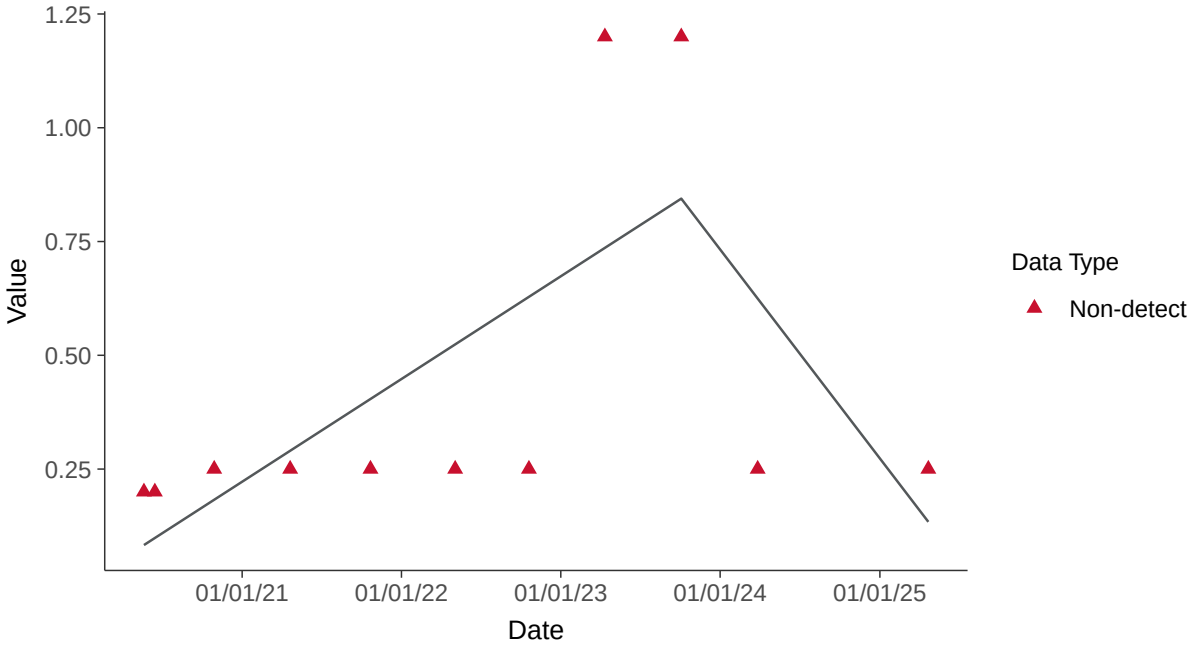
Boxplot by Season

Cadmium, MW-17001R (ug/L)



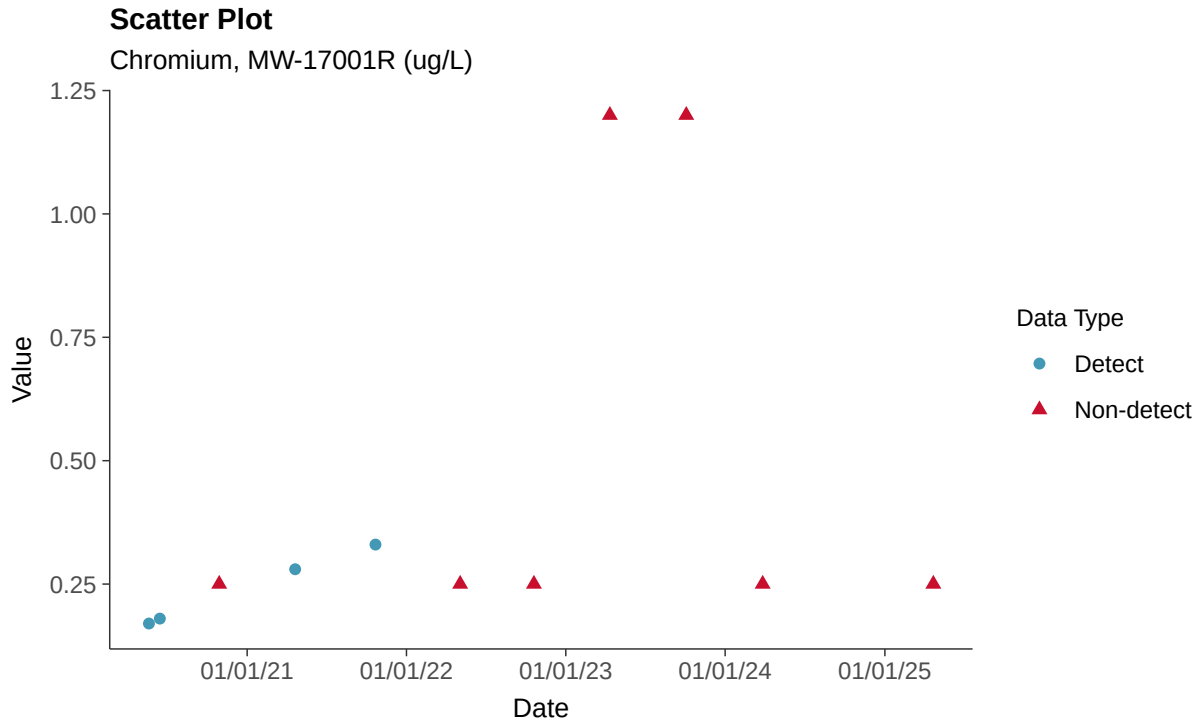
Trend Regression: Piecewise Linear-Linear

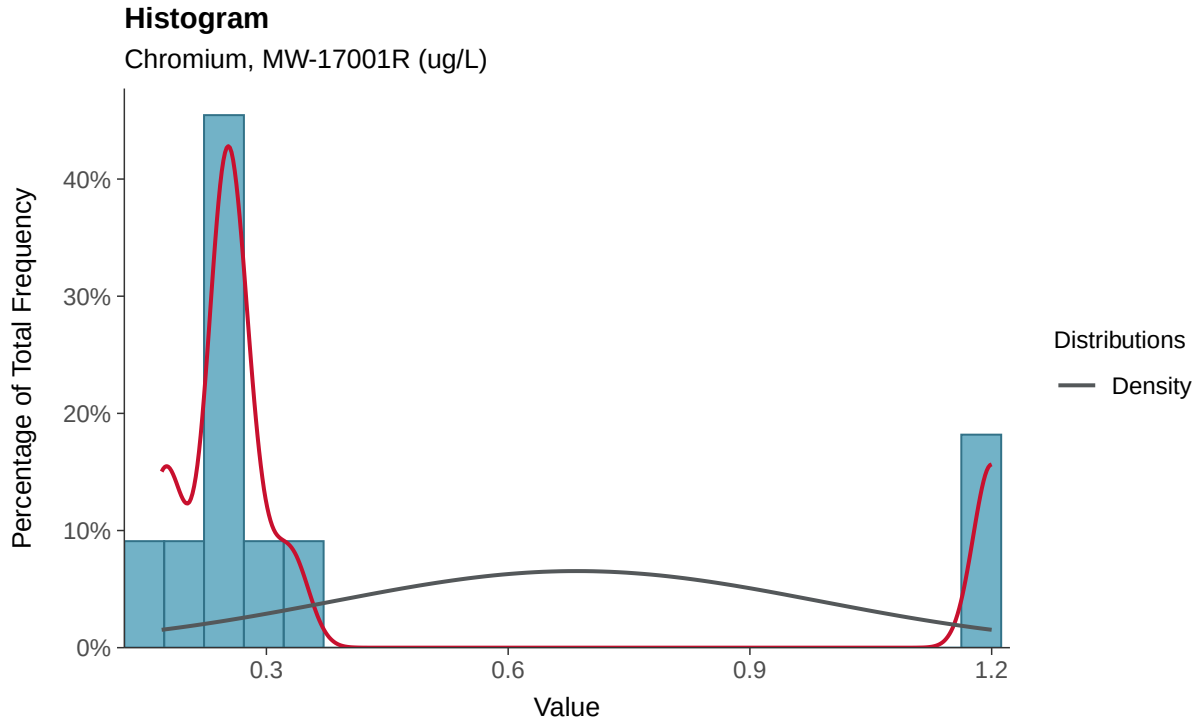
Cadmium, MW-17001R (ug/L)



Appendix IV: Chromium, MW-17001R

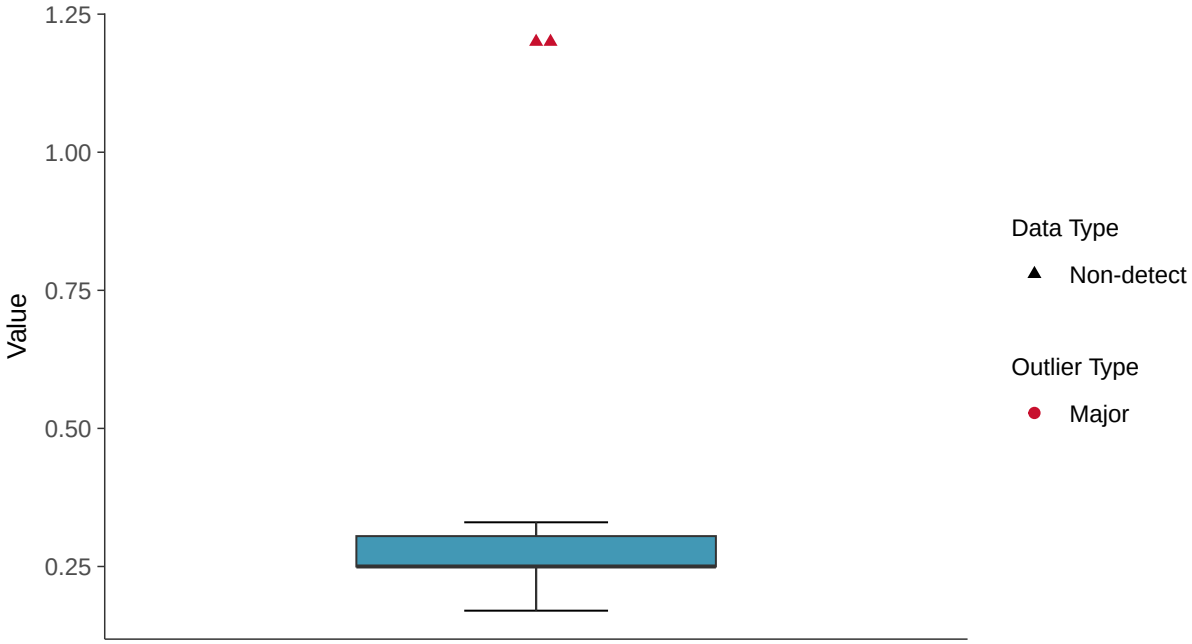
ID: 14_2_109





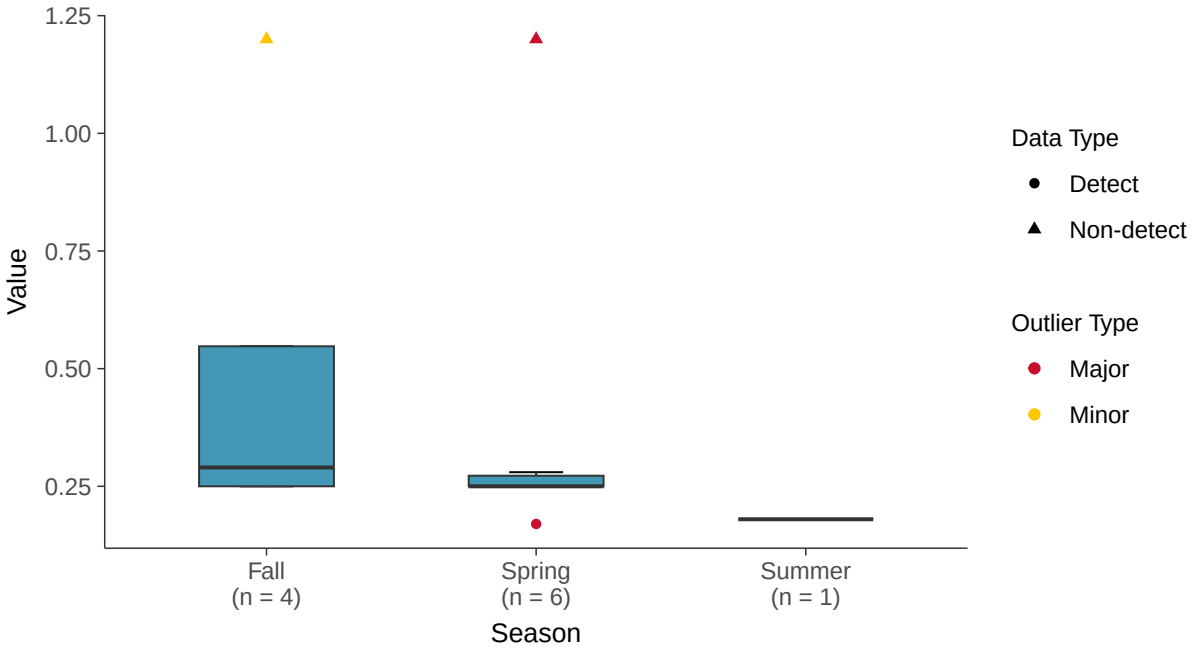
Boxplot

Chromium, MW-17001R (ug/L)



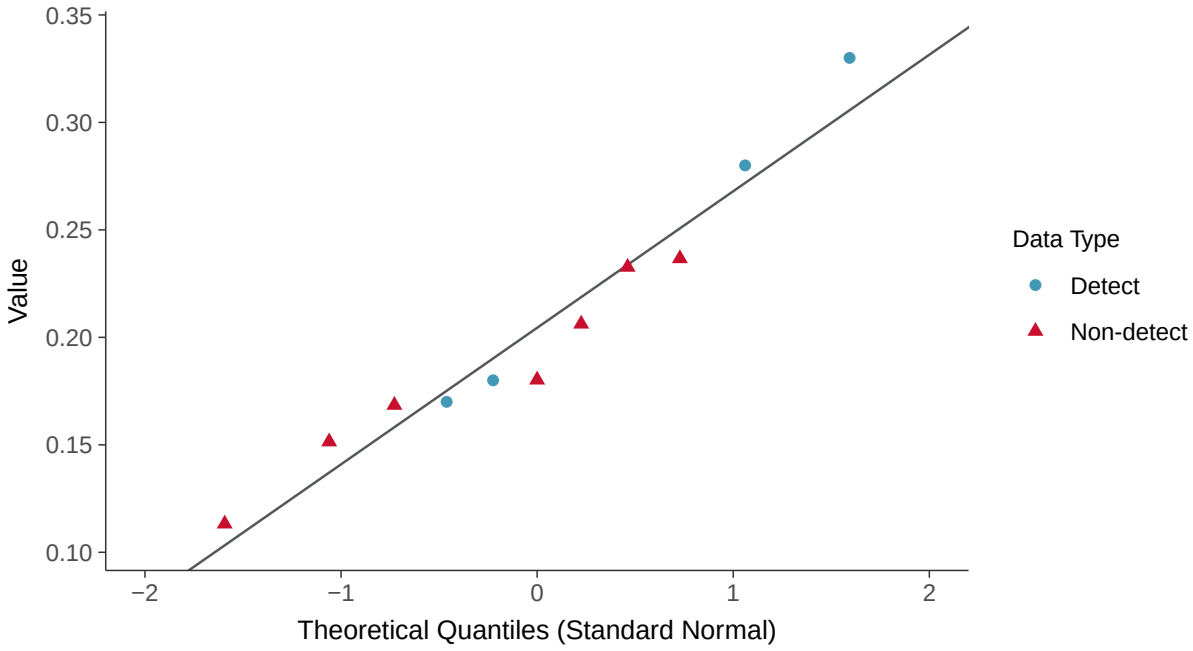
Boxplot by Season

Chromium, MW-17001R (ug/L)



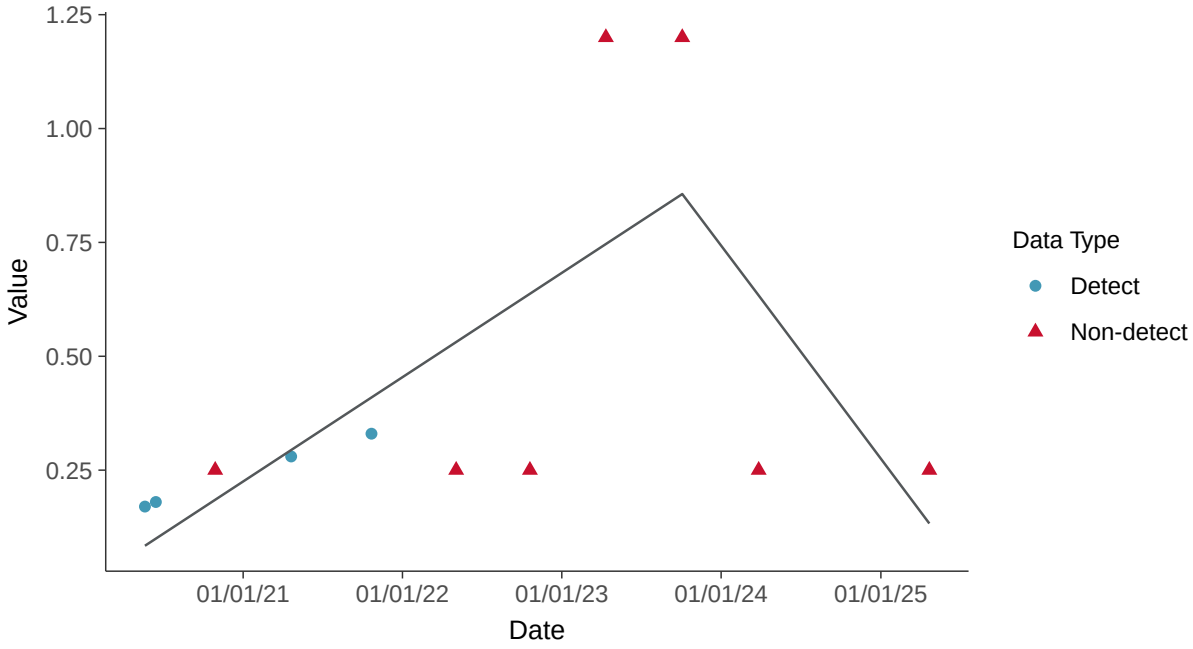
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-17001R (ug/L)



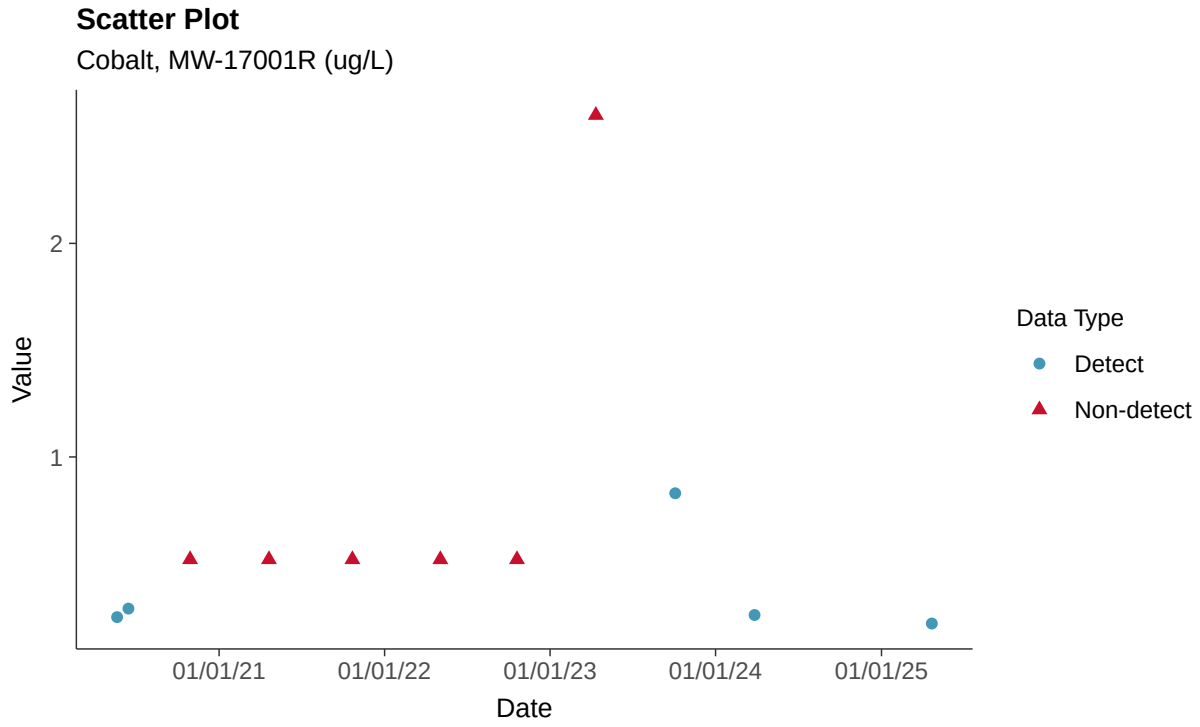
Trend Regression: Piecewise Linear-Linear

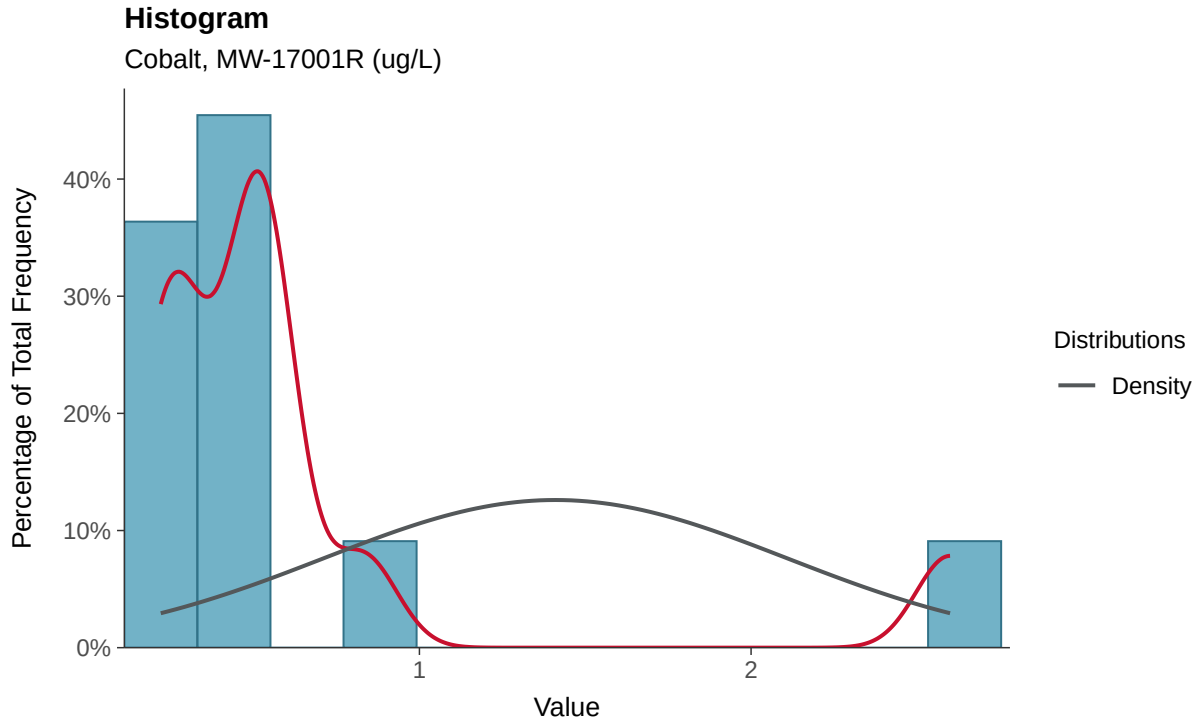
Chromium, MW-17001R (ug/L)



Appendix IV: Cobalt, MW-17001R

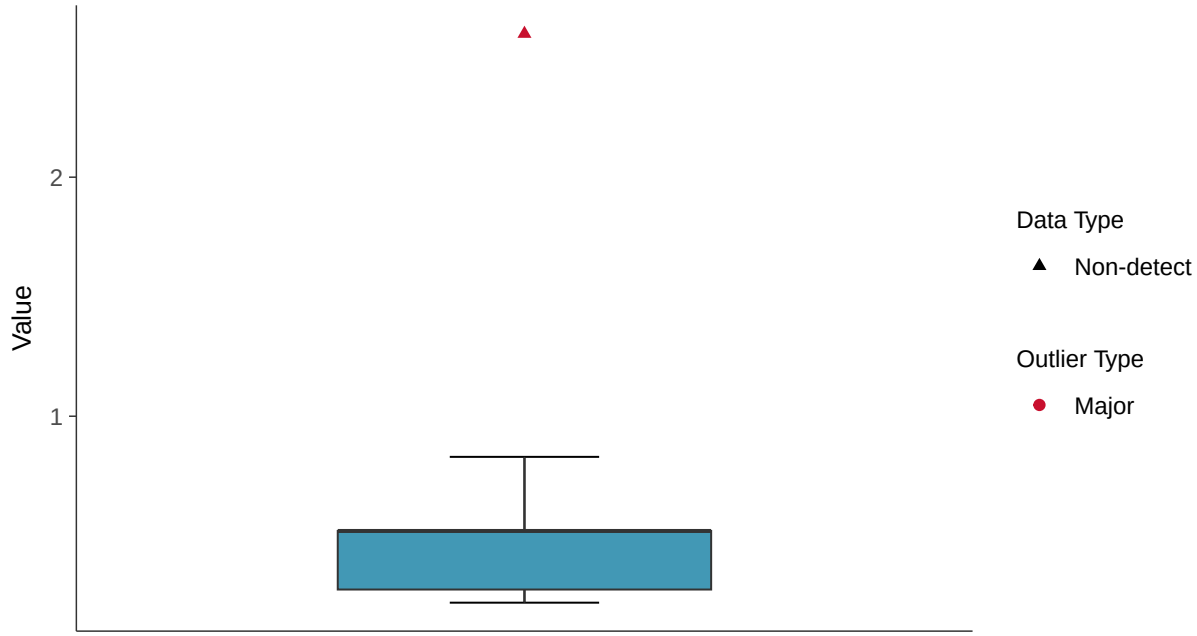
ID: 14_2_110





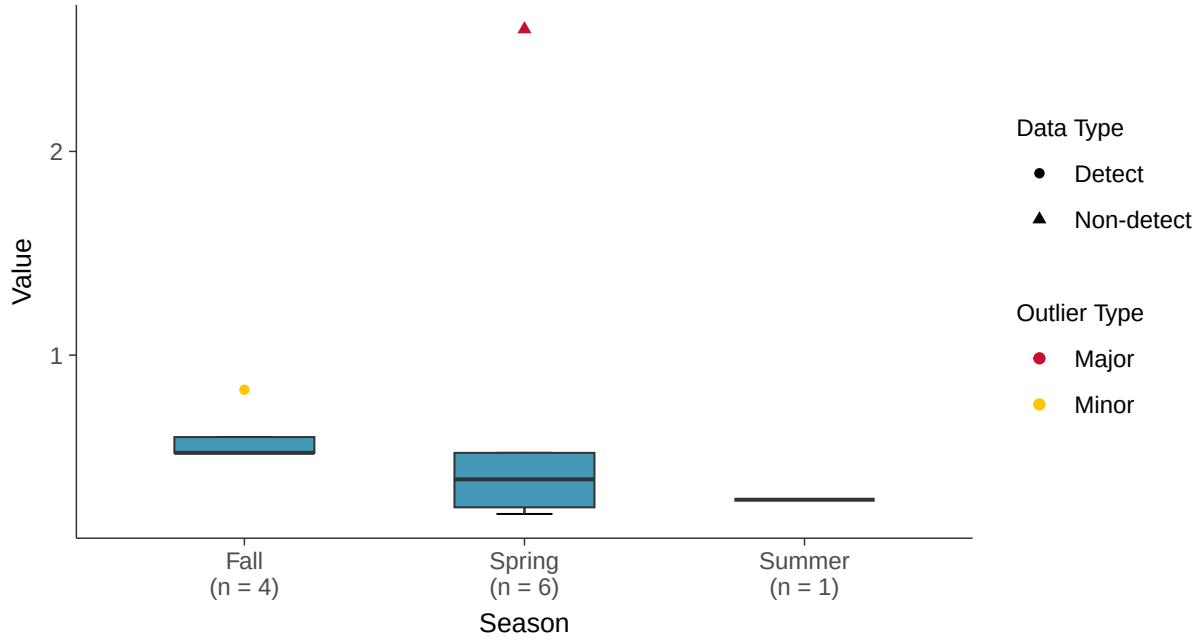
Boxplot

Cobalt, MW-17001R (ug/L)



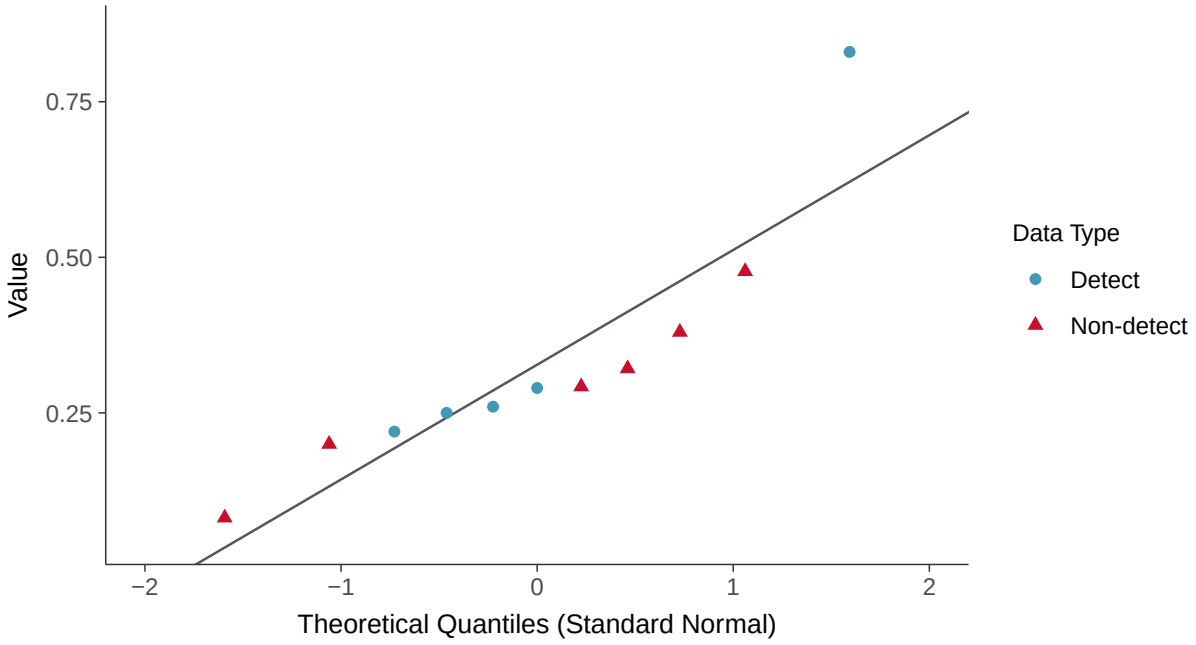
Boxplot by Season

Cobalt, MW-17001R (ug/L)



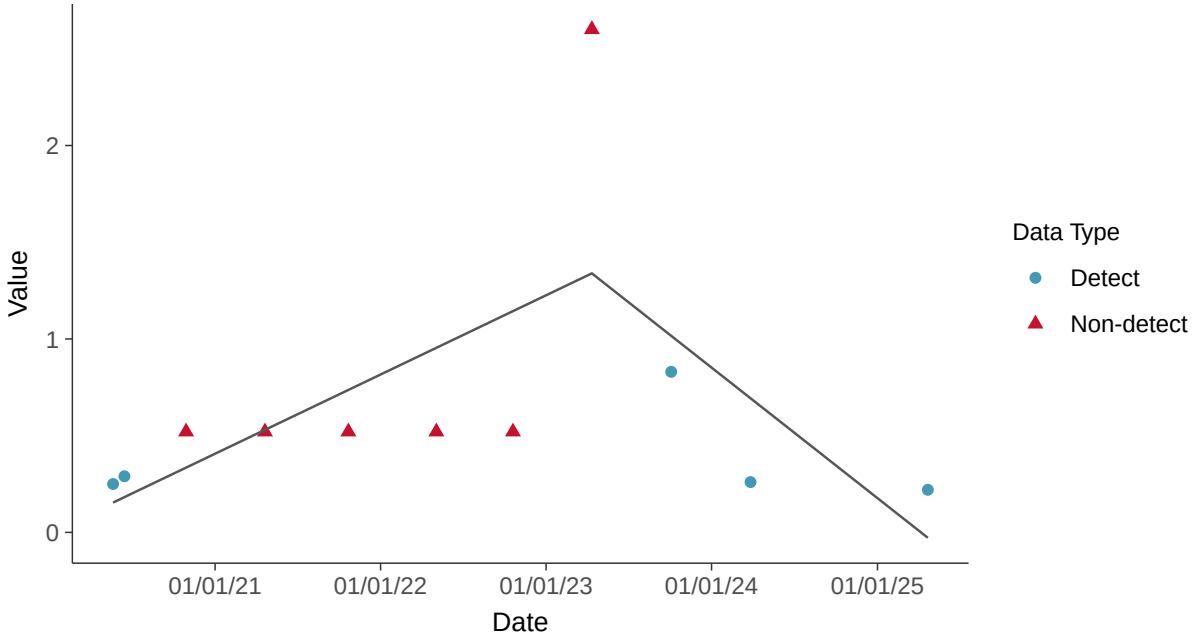
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-17001R (ug/L)



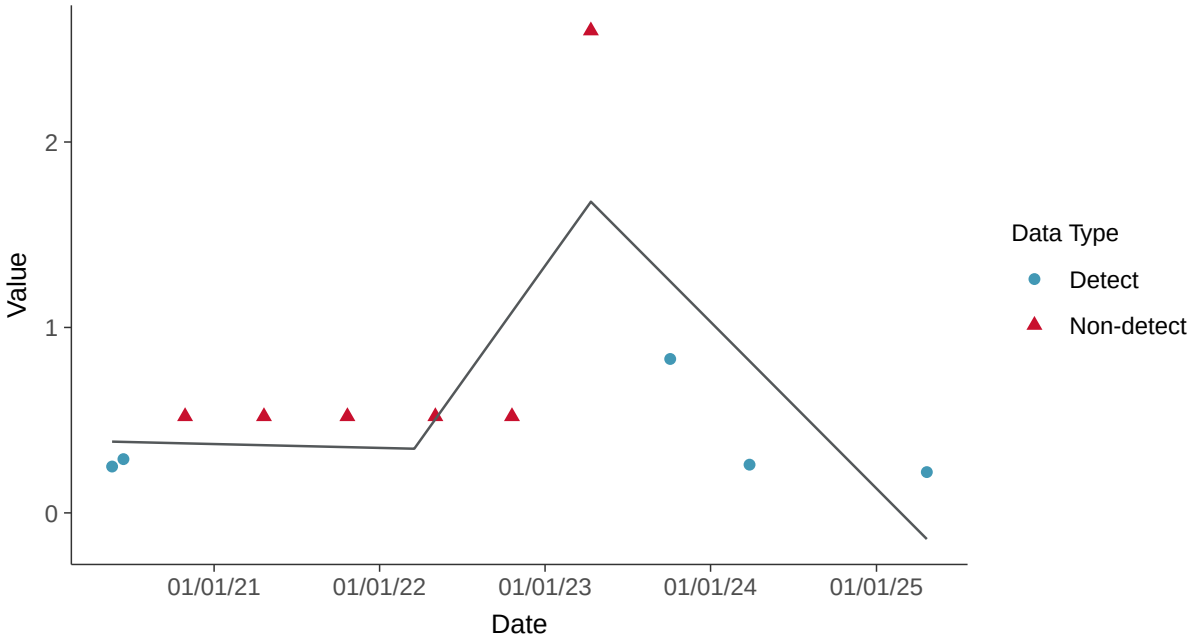
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-17001R (ug/L)



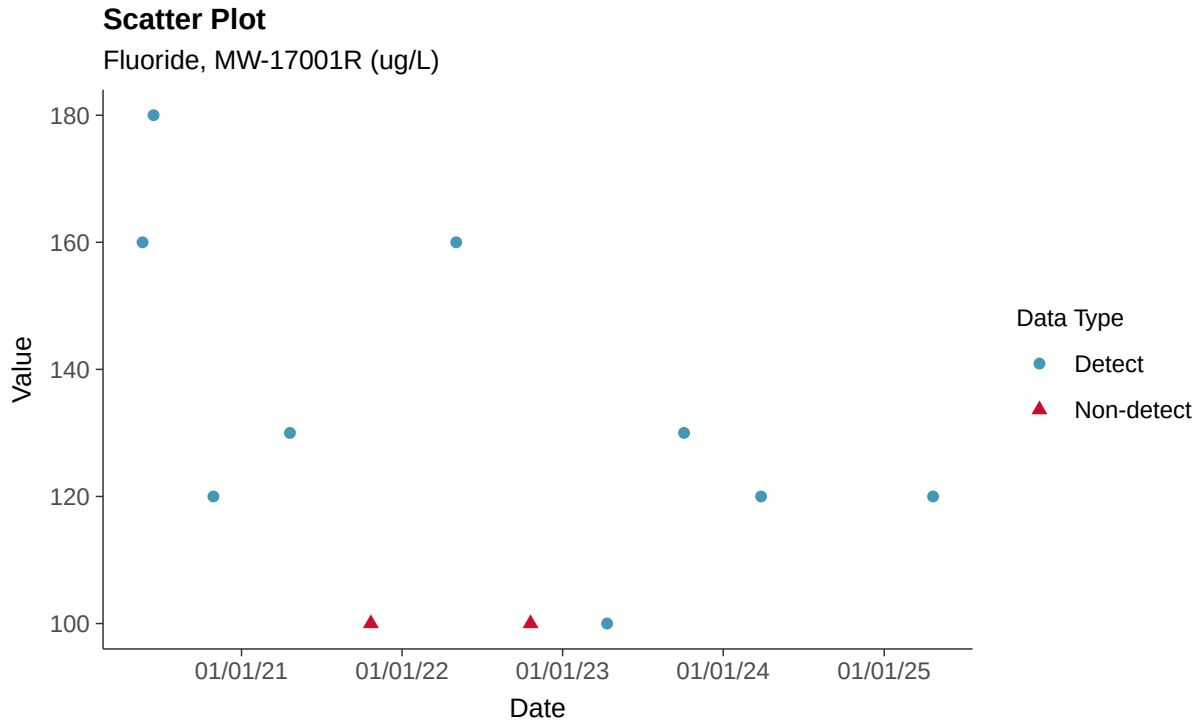
Trend Regression: Piecewise Linear-Linear-Linear

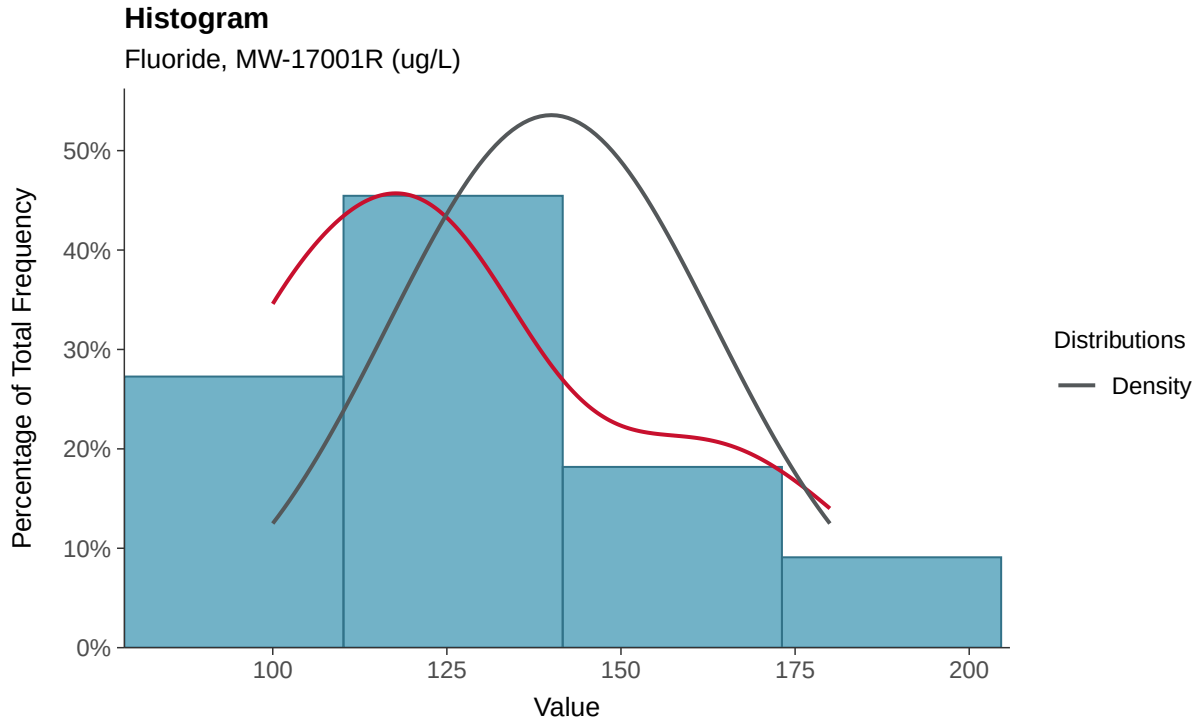
Cobalt, MW-17001R (ug/L)



Appendix IV: Fluoride, MW-17001R

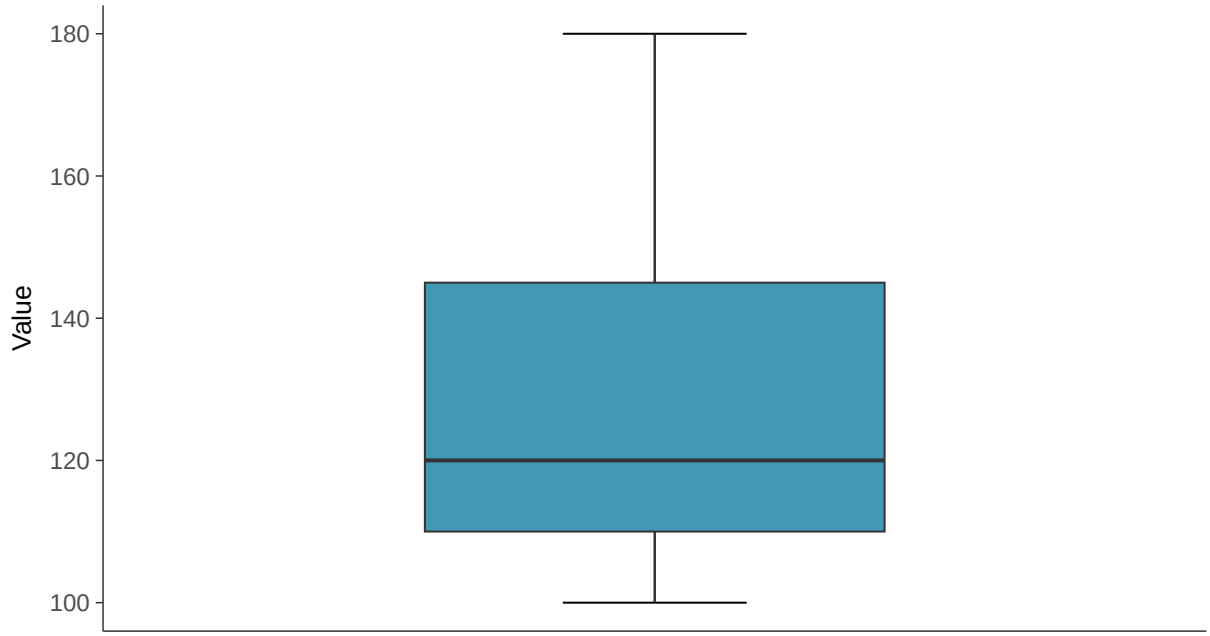
ID: 14_2_114





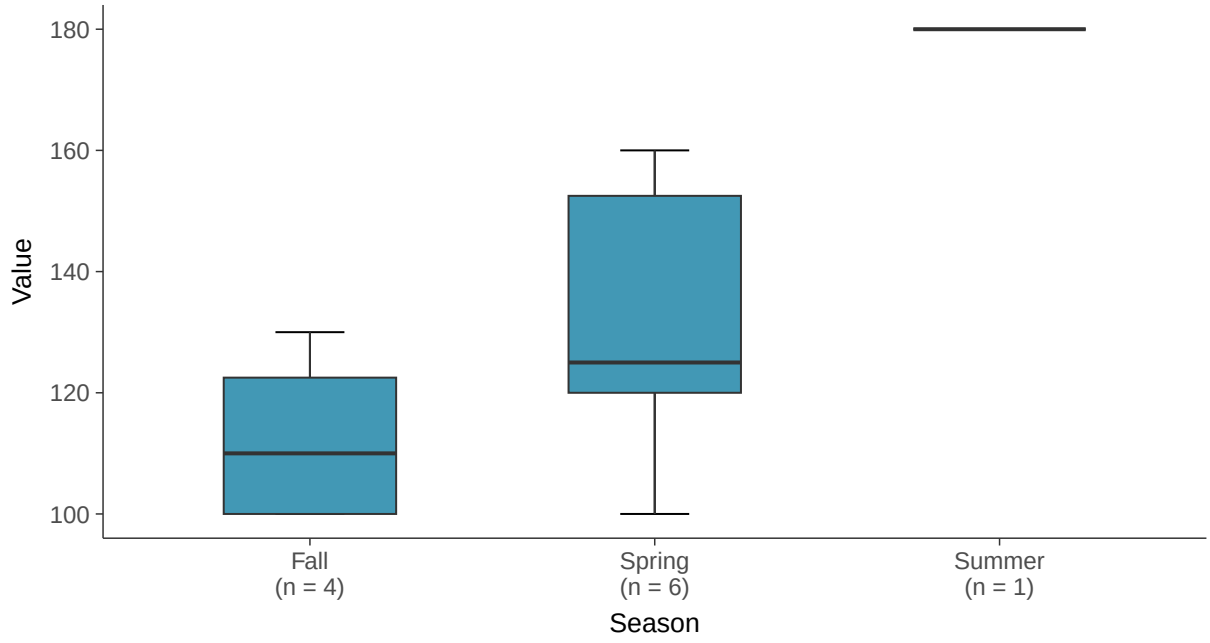
Boxplot

Fluoride, MW-17001R (ug/L)



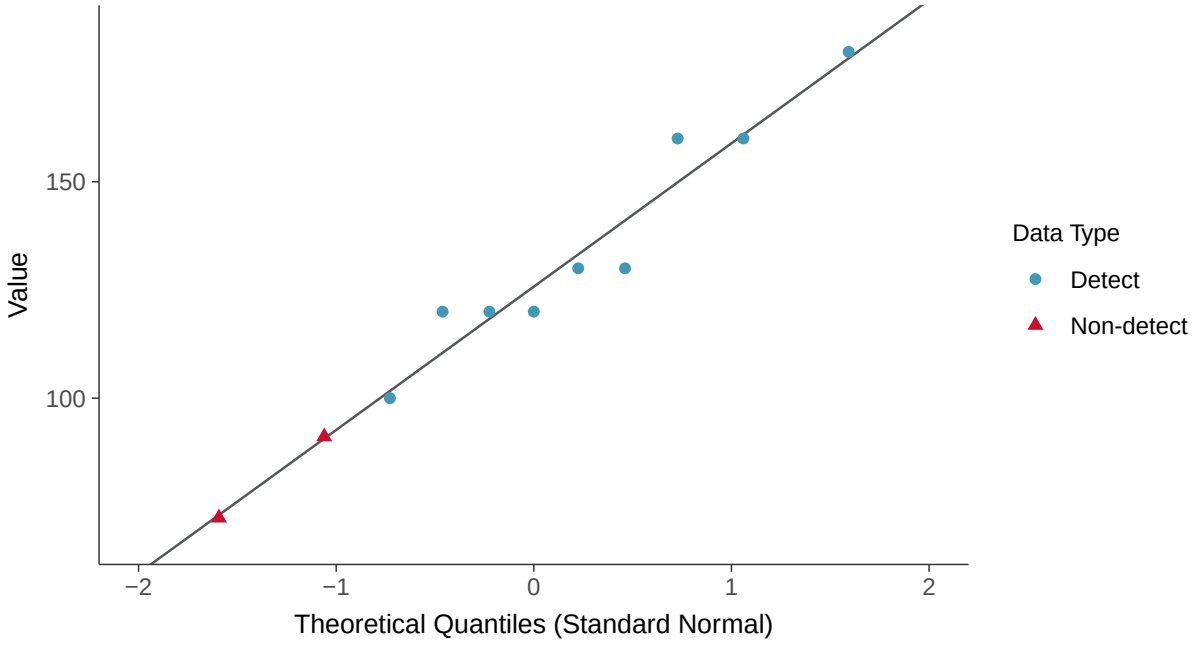
Boxplot by Season

Fluoride, MW-17001R (ug/L)



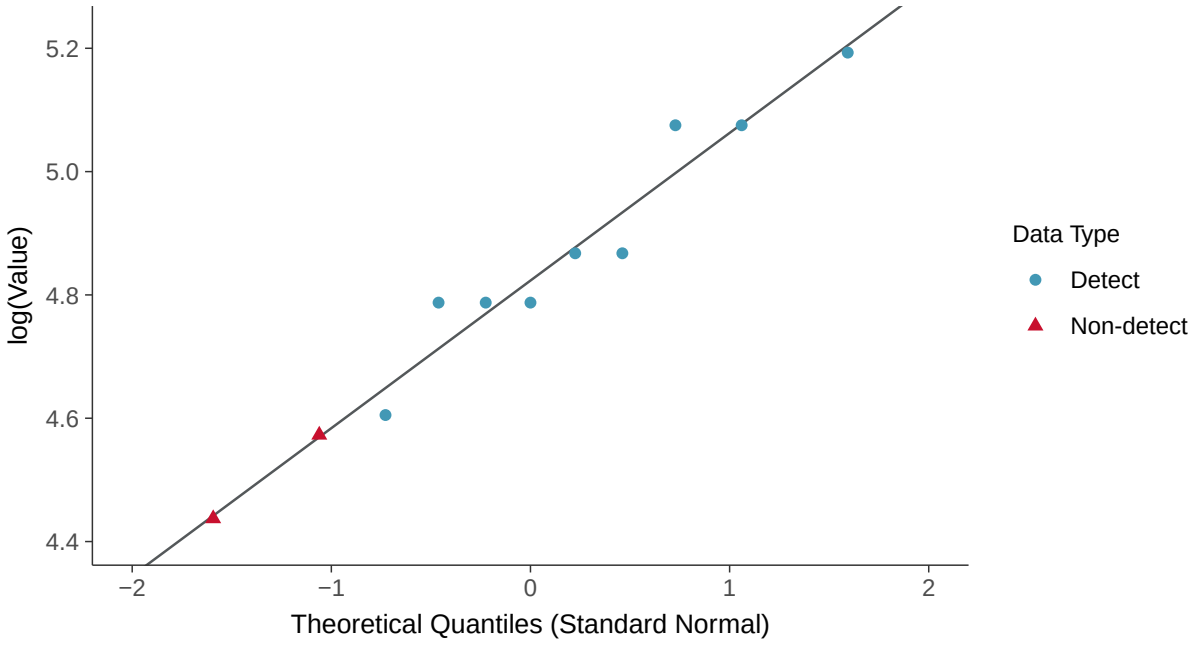
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17001R (ug/L)



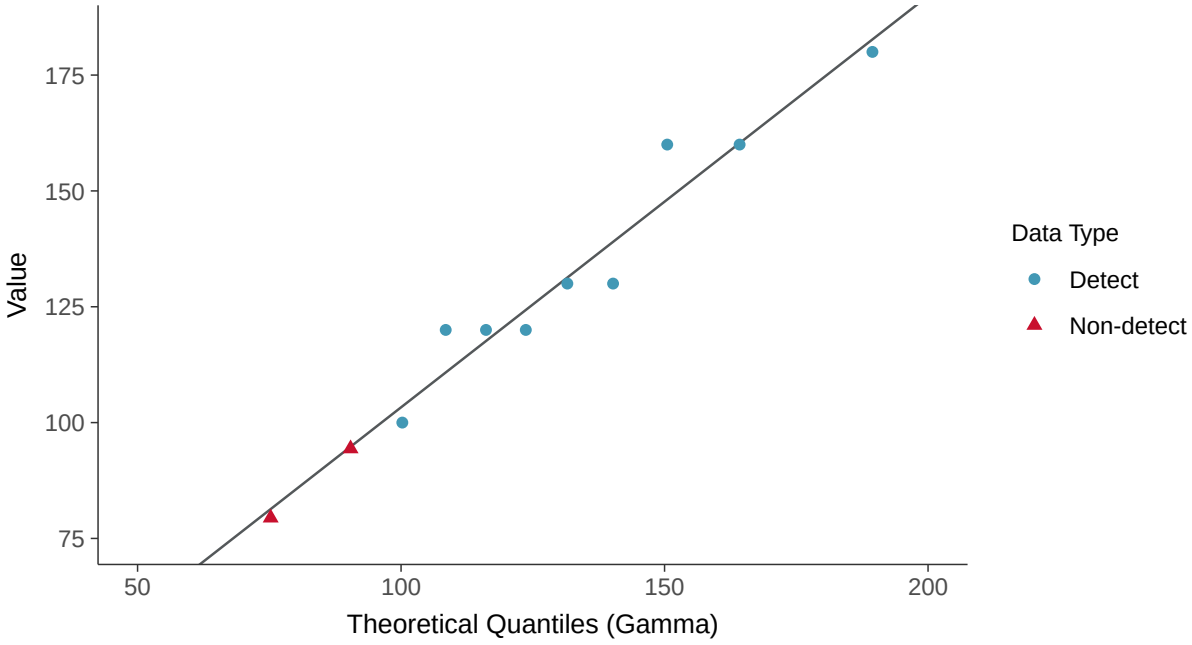
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17001R (ug/L)



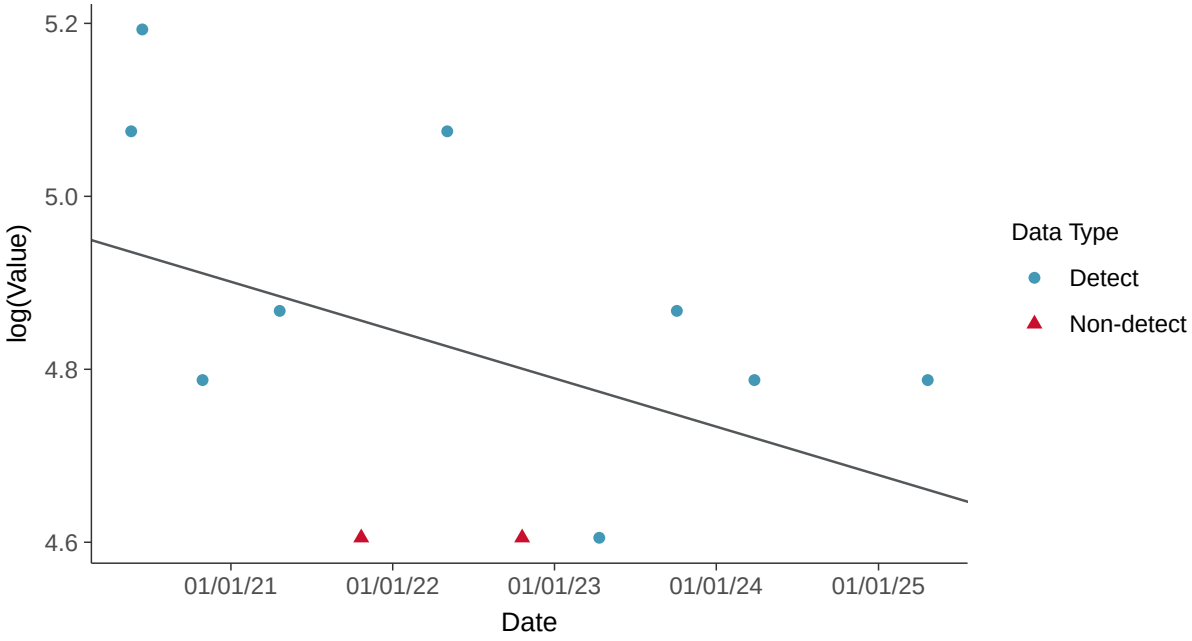
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17001R (ug/L)



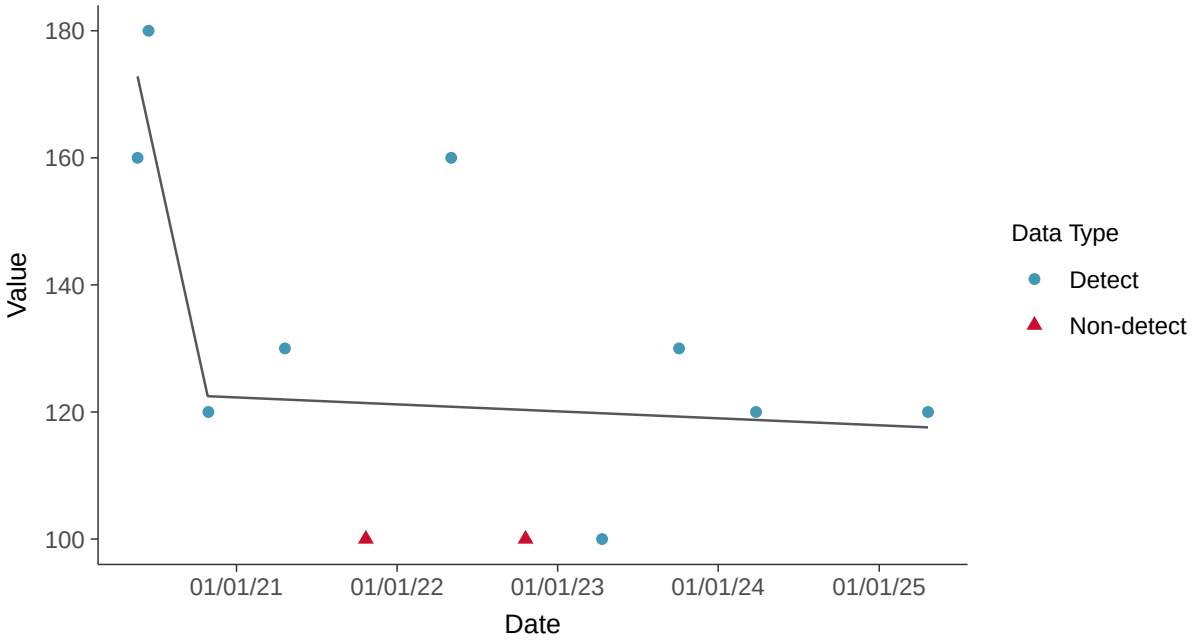
Trend Regression: Lognormal MLE

Fluoride, MW-17001R (ug/L)



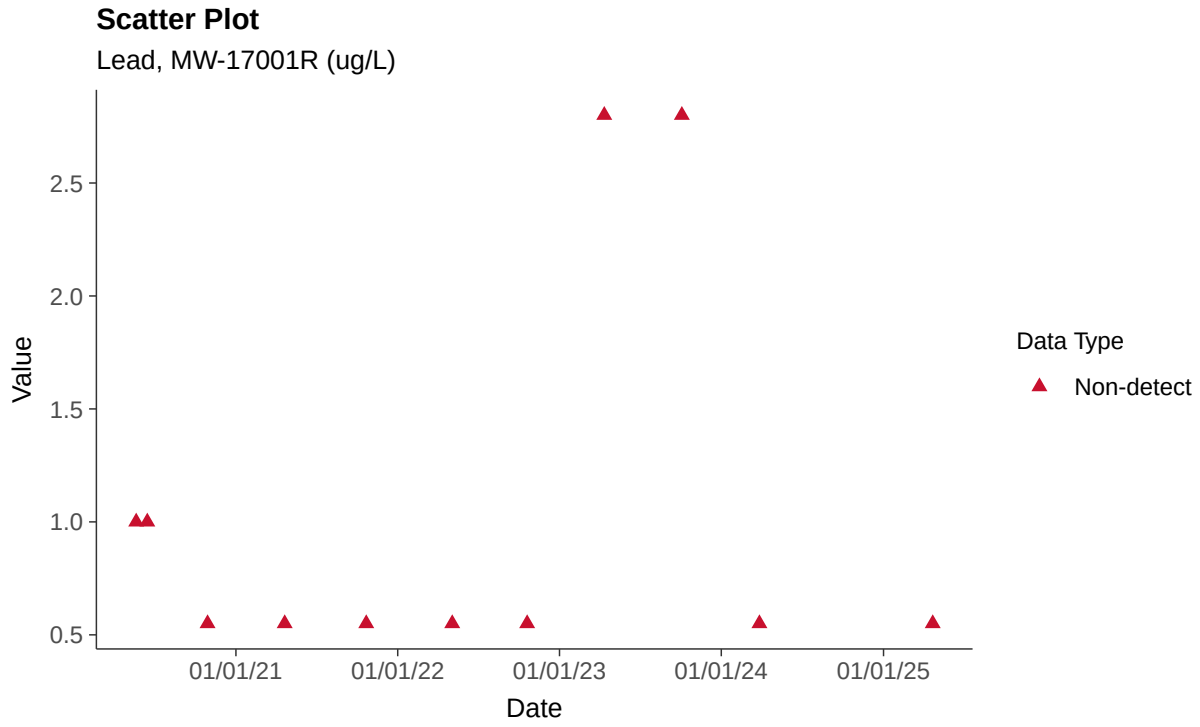
Trend Regression: Piecewise Linear-Linear

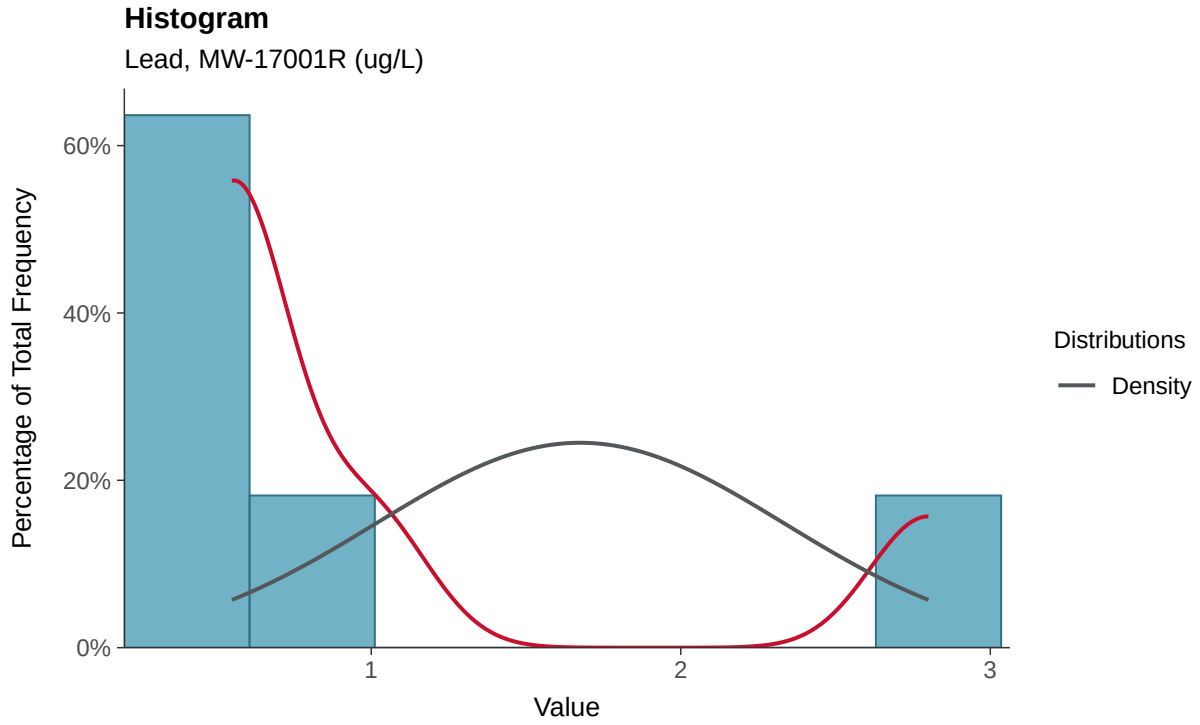
Fluoride, MW-17001R (ug/L)



Appendix IV: Lead, MW-17001R

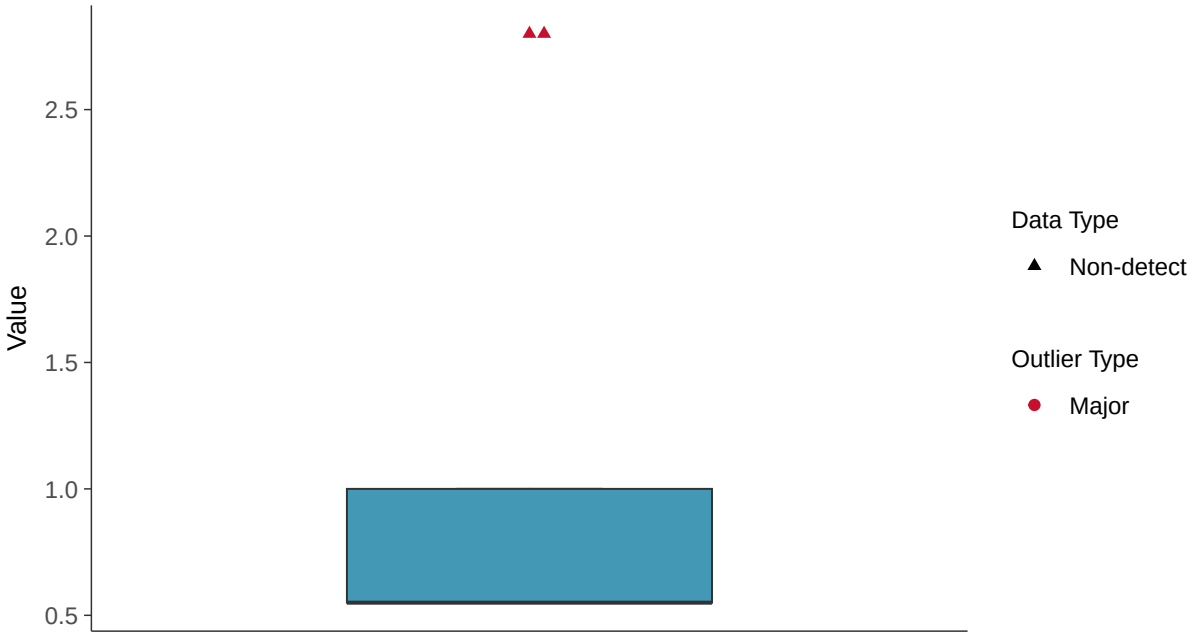
ID: 14_2_116





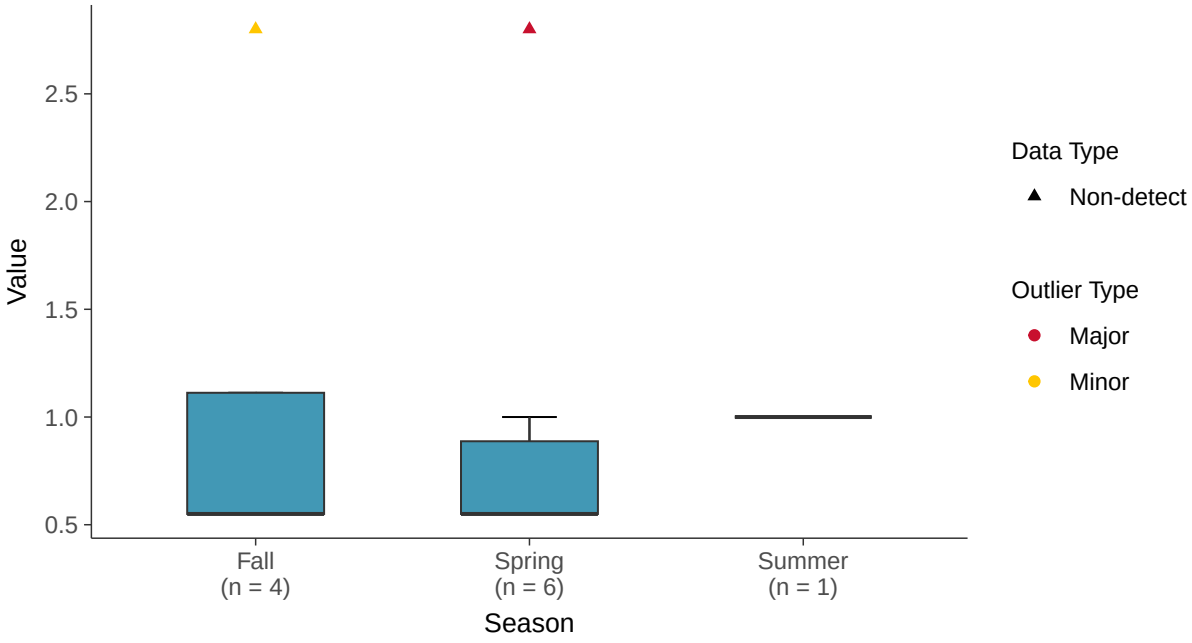
Boxplot

Lead, MW-17001R (ug/L)



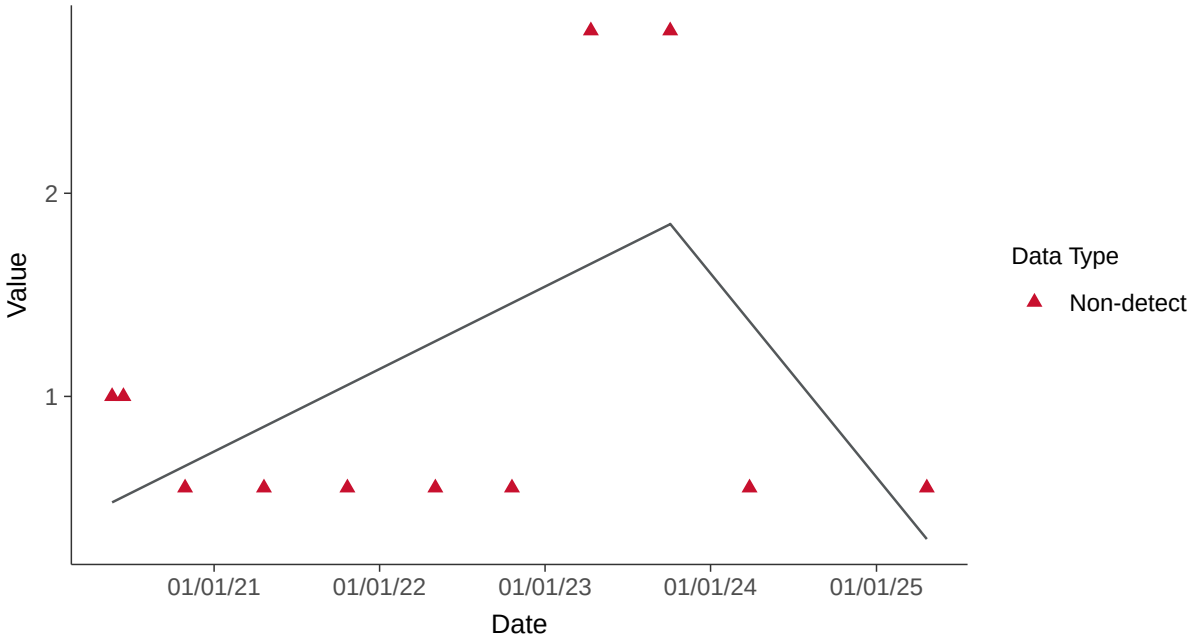
Boxplot by Season

Lead, MW-17001R (ug/L)



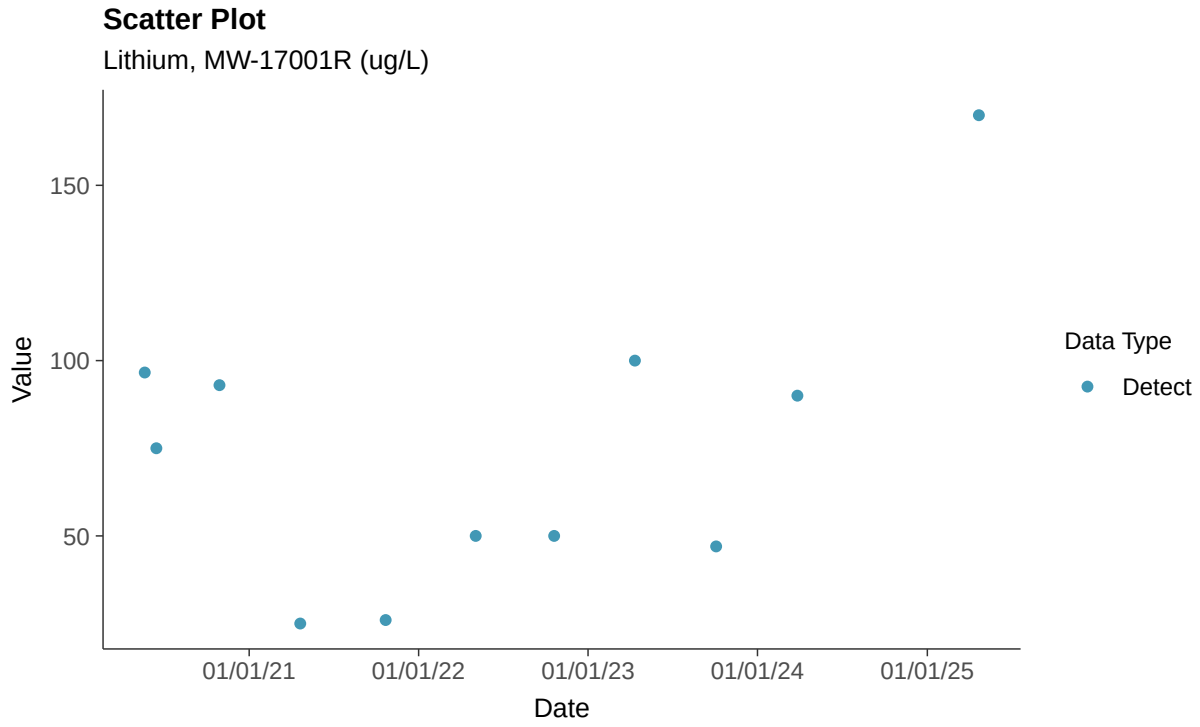
Trend Regression: Piecewise Linear-Linear

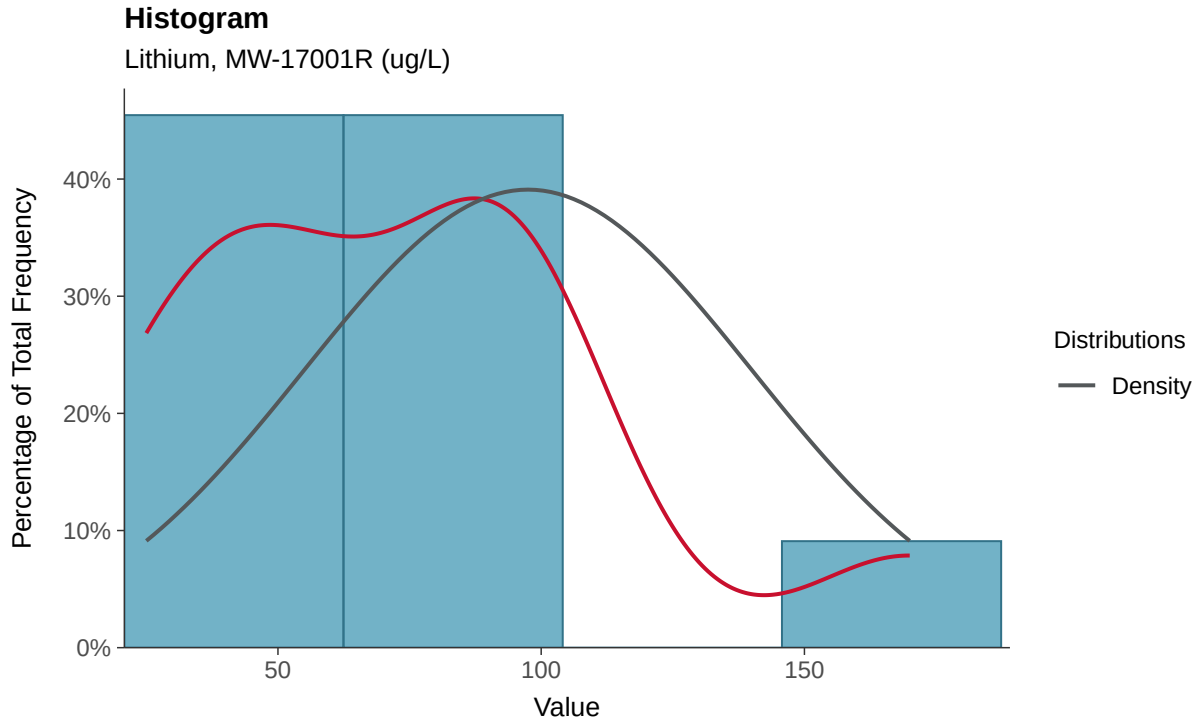
Lead, MW-17001R (ug/L)



Appendix IV: Lithium, MW-17001R

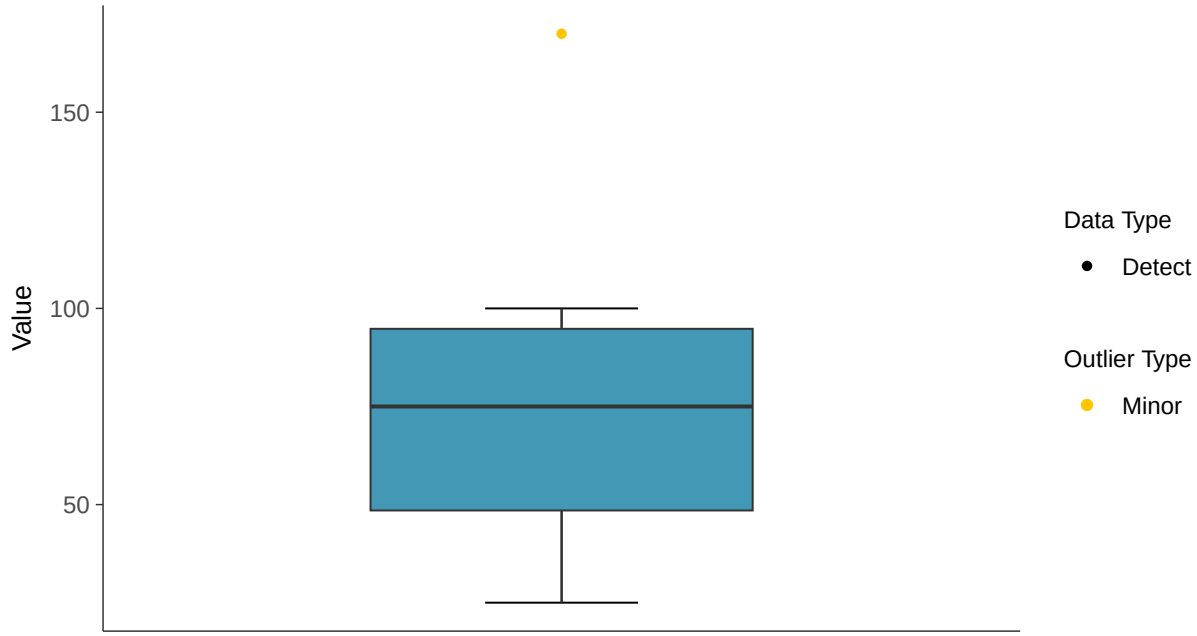
ID: 14_2_117





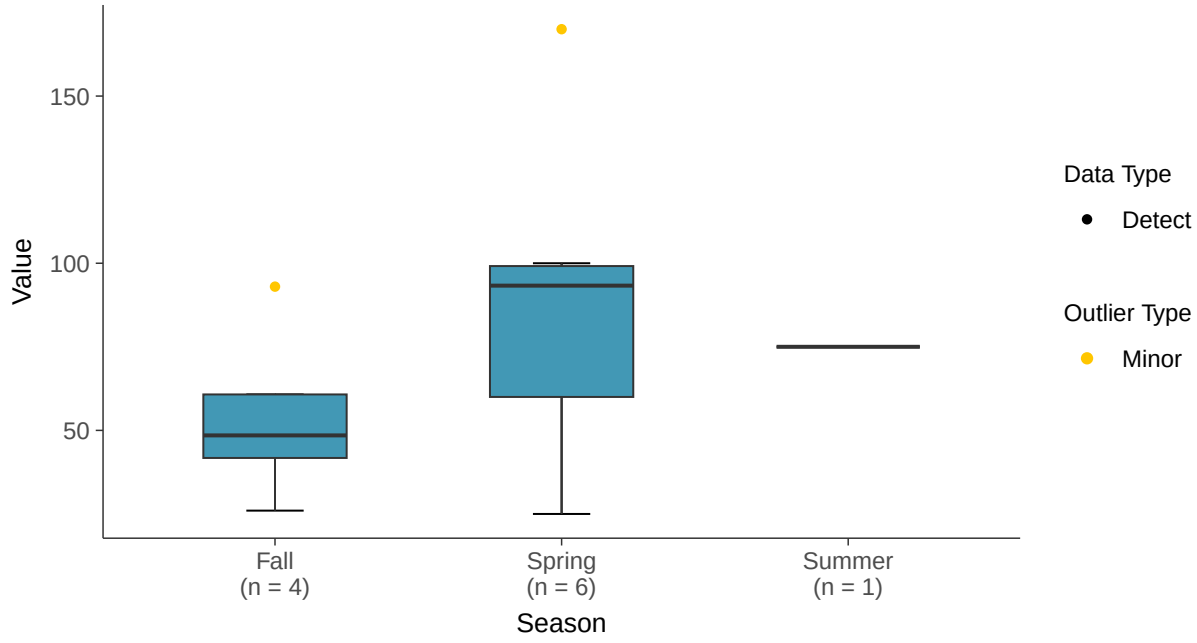
Boxplot

Lithium, MW-17001R (ug/L)



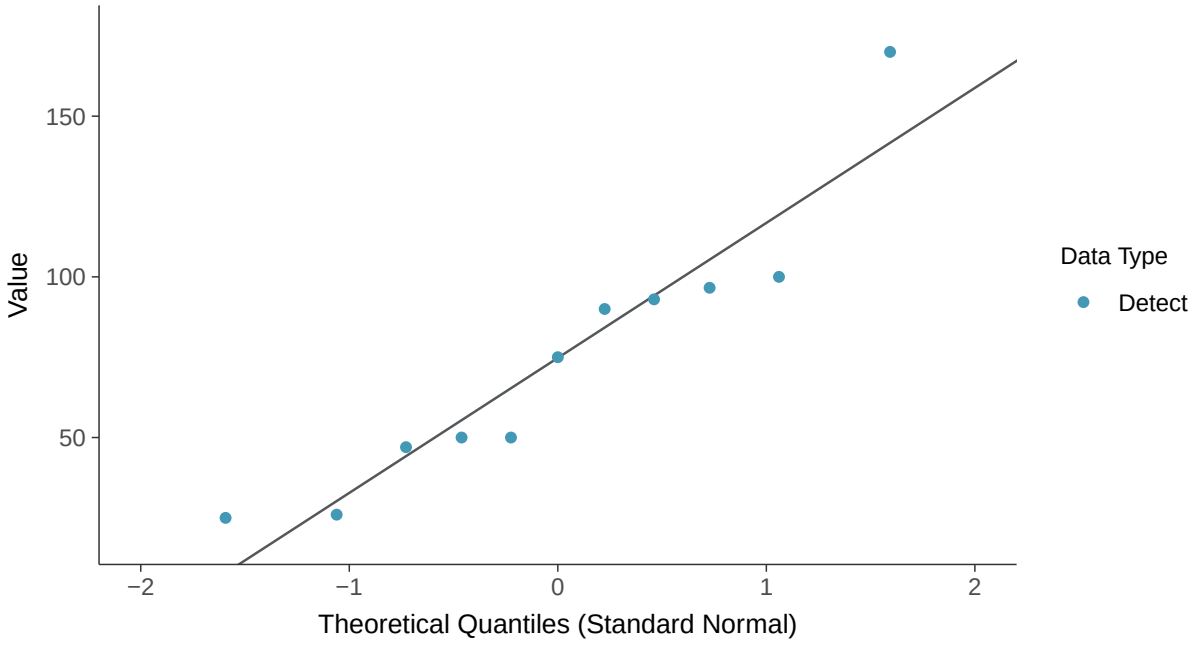
Boxplot by Season

Lithium, MW-17001R (ug/L)



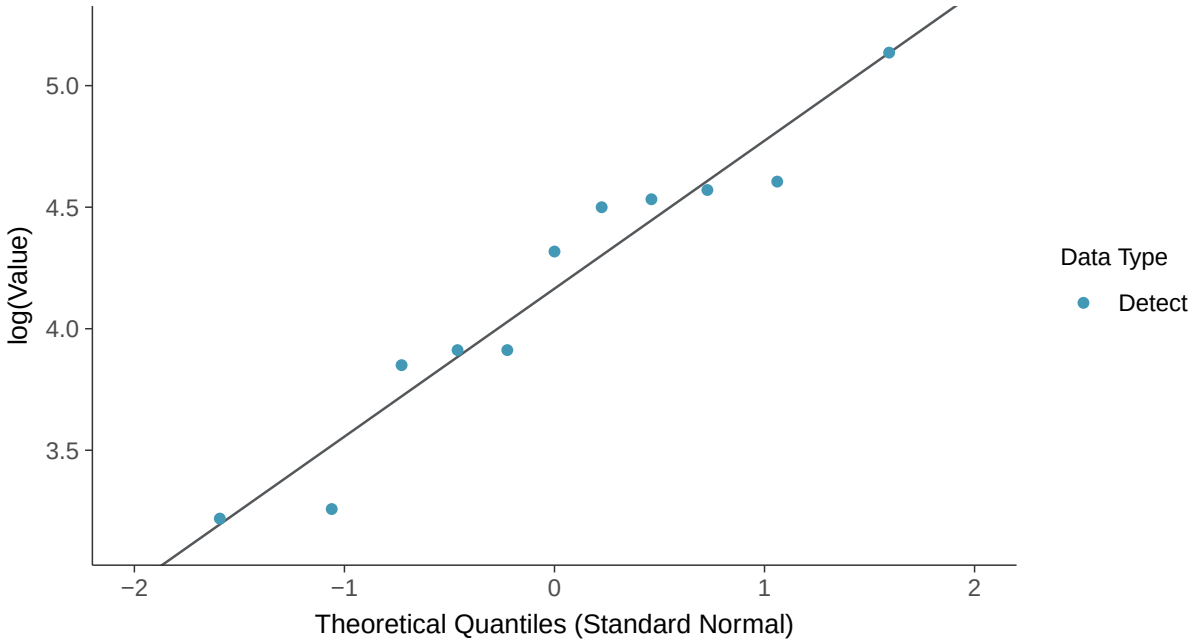
Normal Q-Q plot

Lithium, MW-17001R (ug/L)



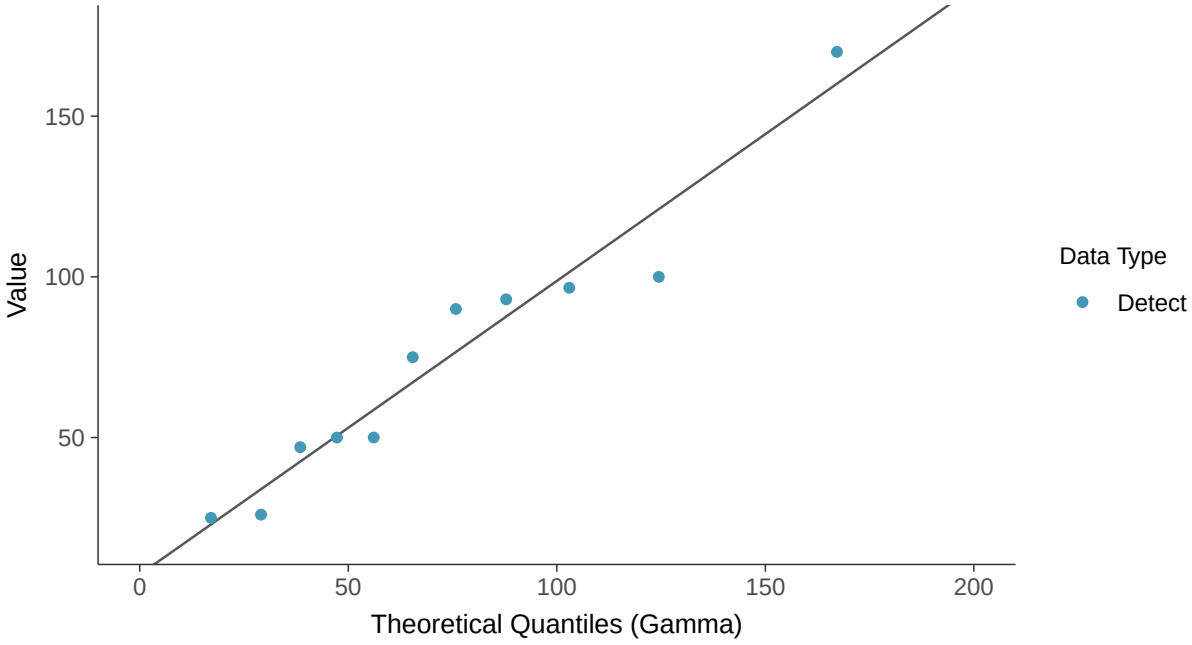
Lognormal Q-Q plot

Lithium, MW-17001R (ug/L)



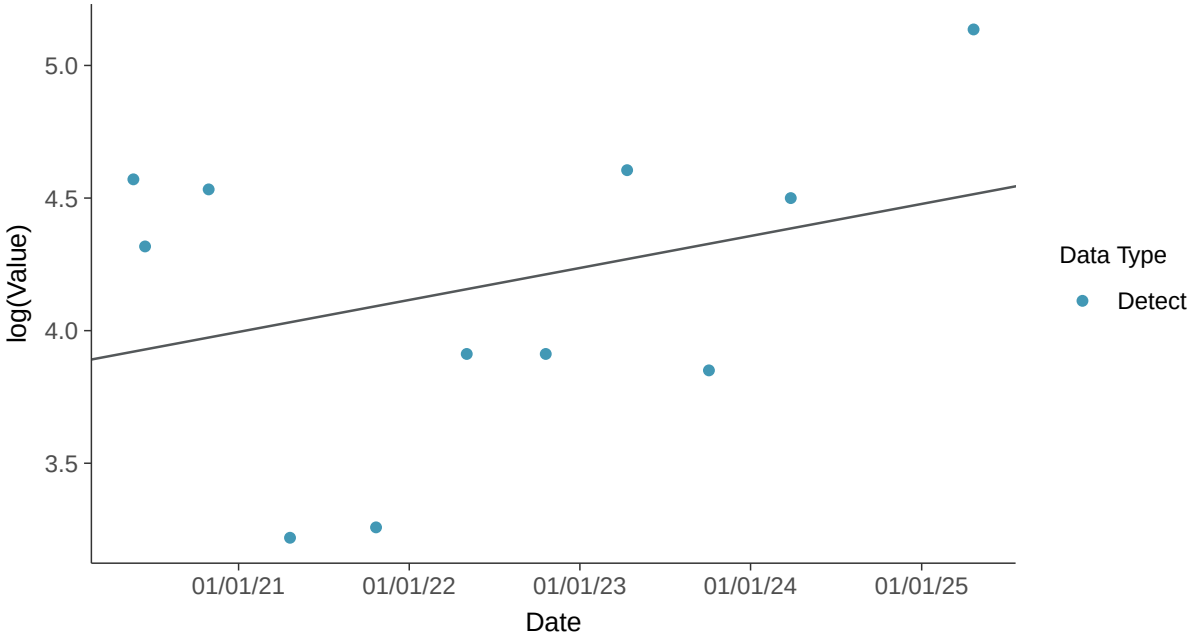
Gamma Q-Q plot

Lithium, MW-17001R (ug/L)



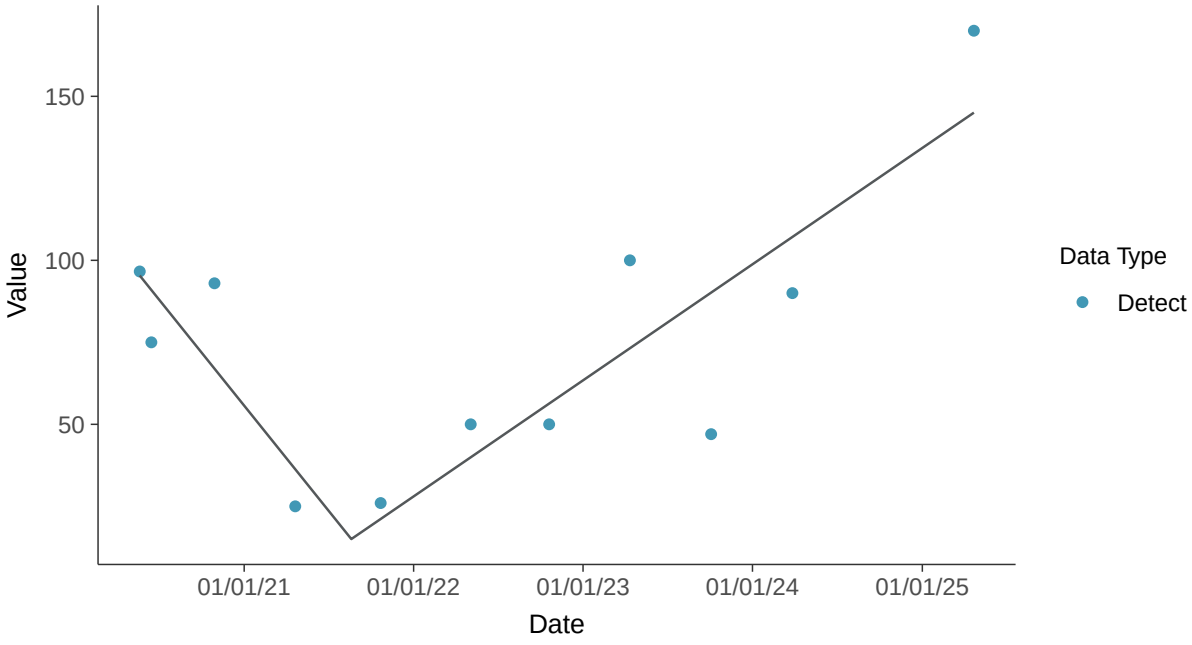
Trend Regression: Lognormal MLE

Lithium, MW-17001R (ug/L)



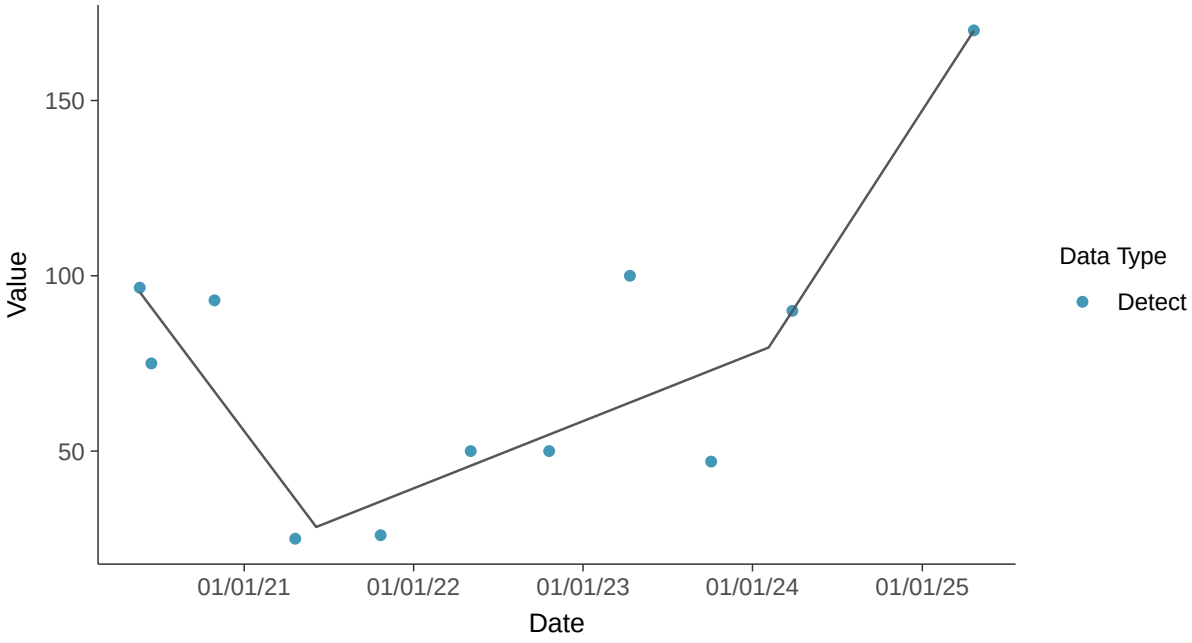
Trend Regression: Piecewise Linear-Linear

Lithium, MW-17001R (ug/L)



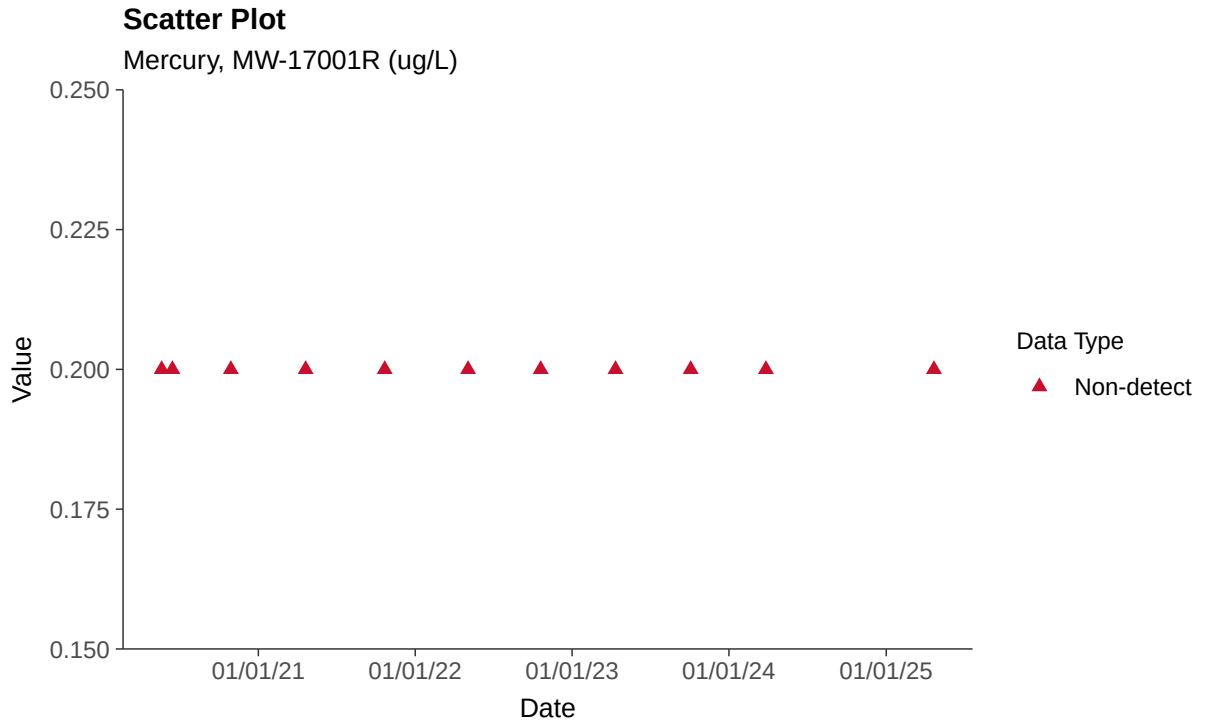
Trend Regression: Piecewise Linear-Linear-Linear

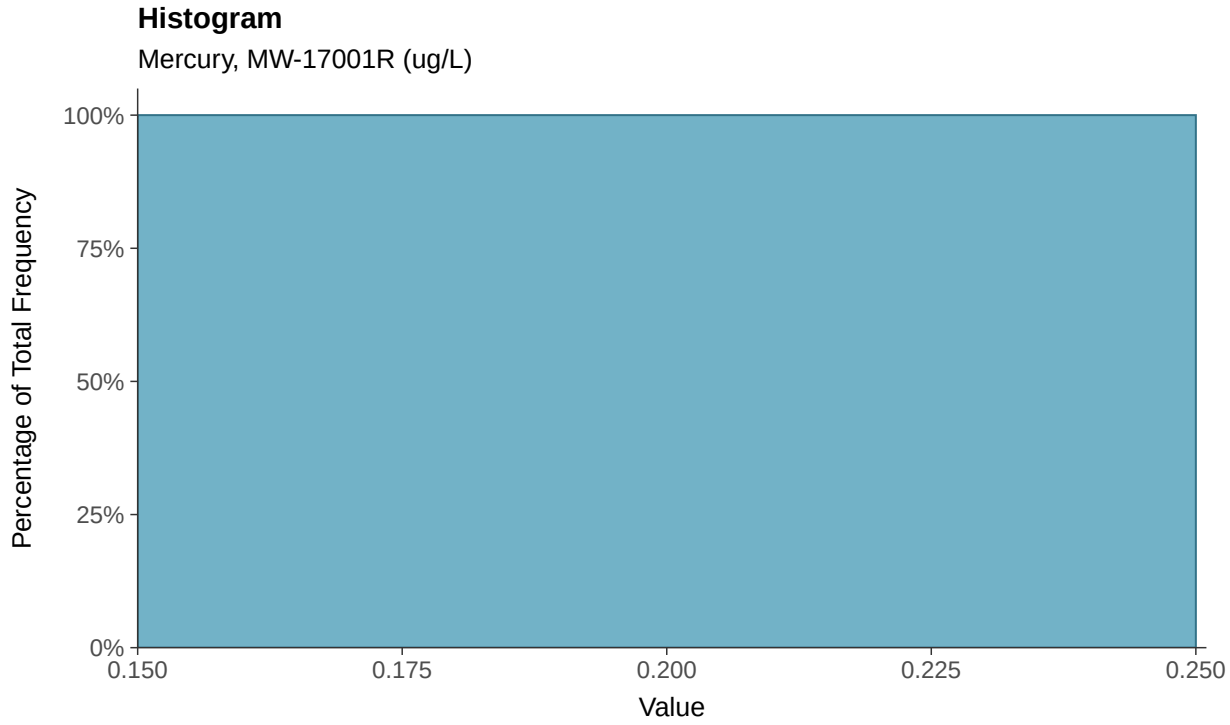
Lithium, MW-17001R (ug/L)



Appendix IV: Mercury, MW-17001R

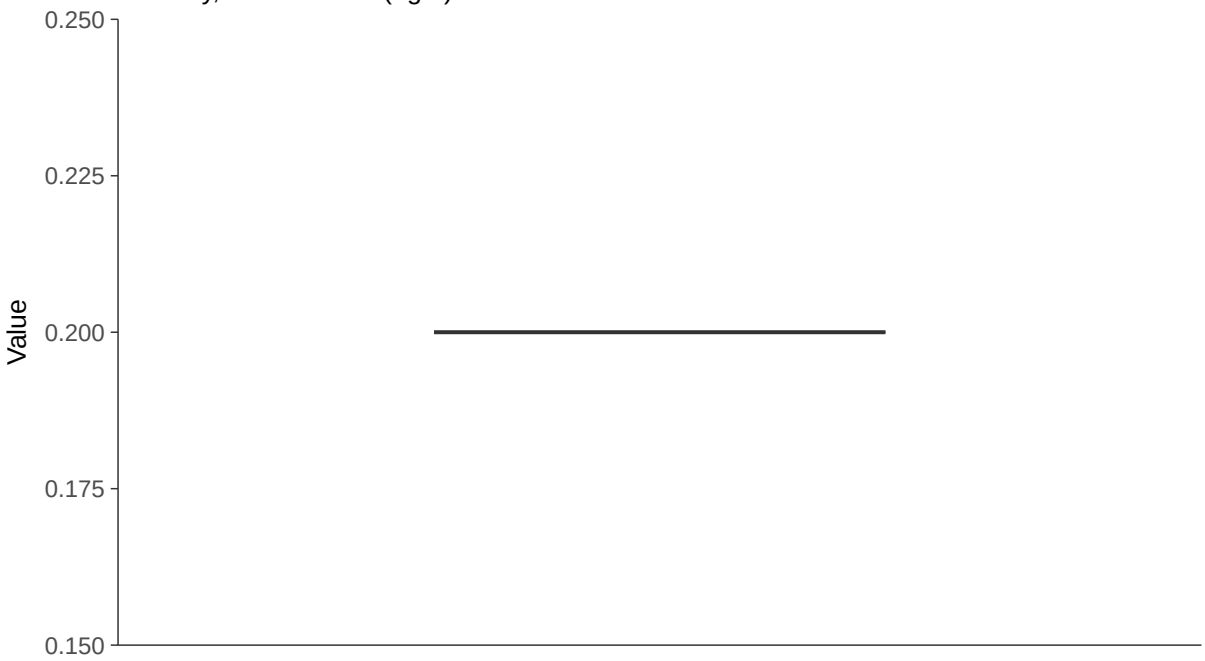
ID: 14_2_118





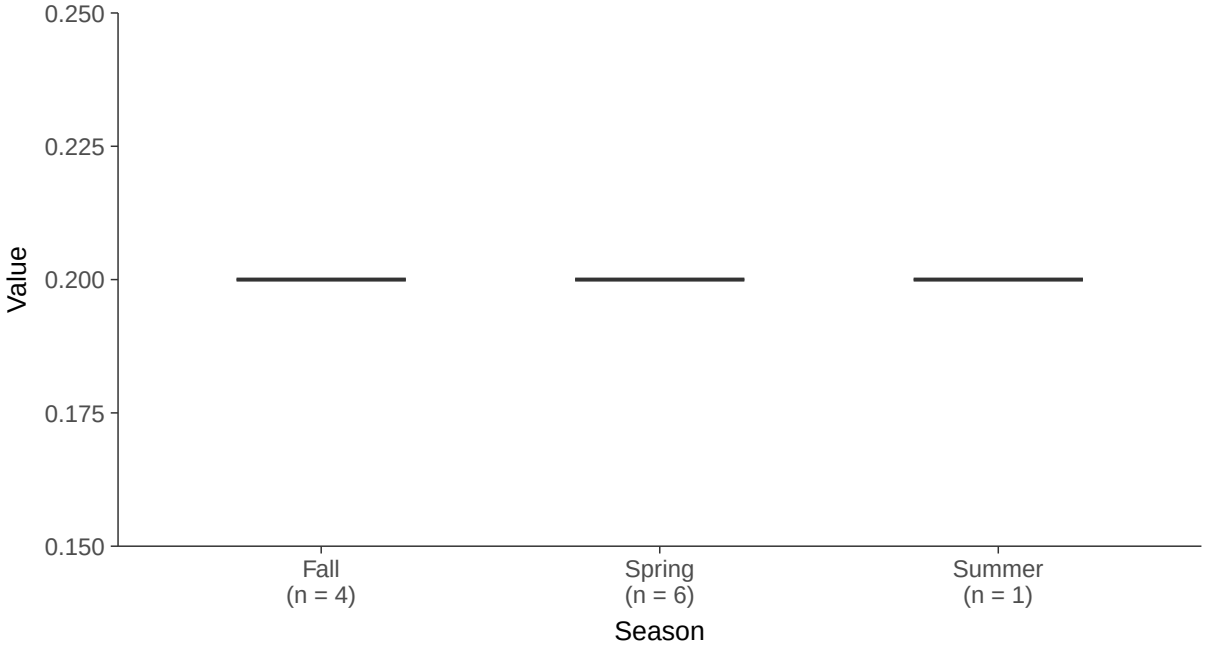
Boxplot

Mercury, MW-17001R (ug/L)



Boxplot by Season

Mercury, MW-17001R (ug/L)

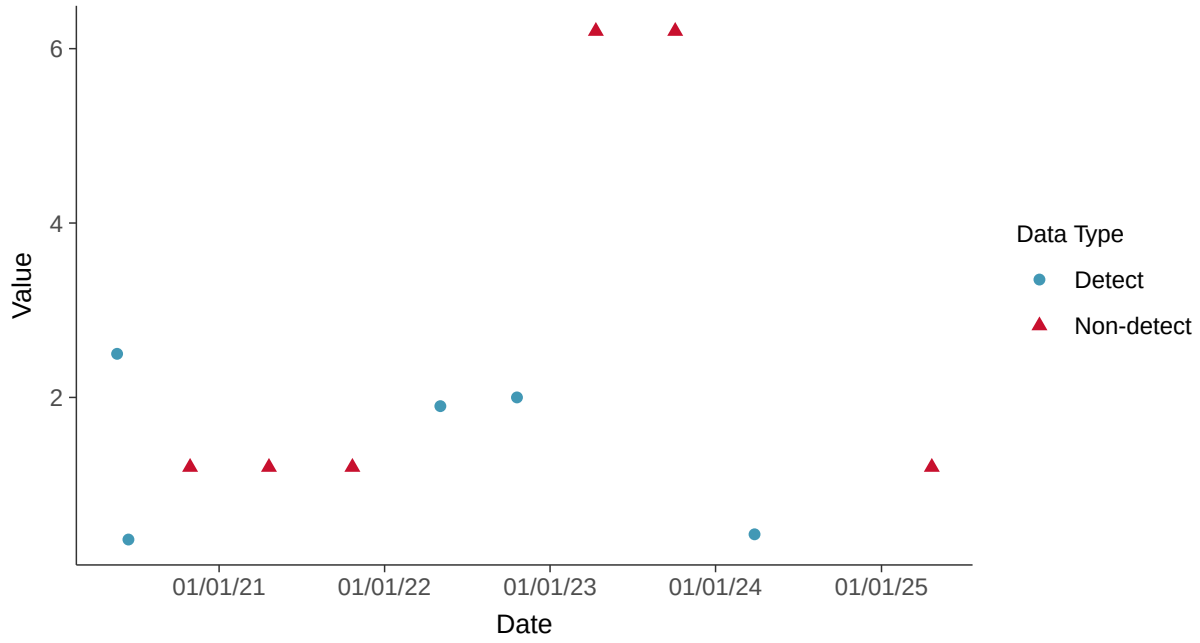


Appendix IV: Molybdenum, MW-17001R

ID: 14_2_119

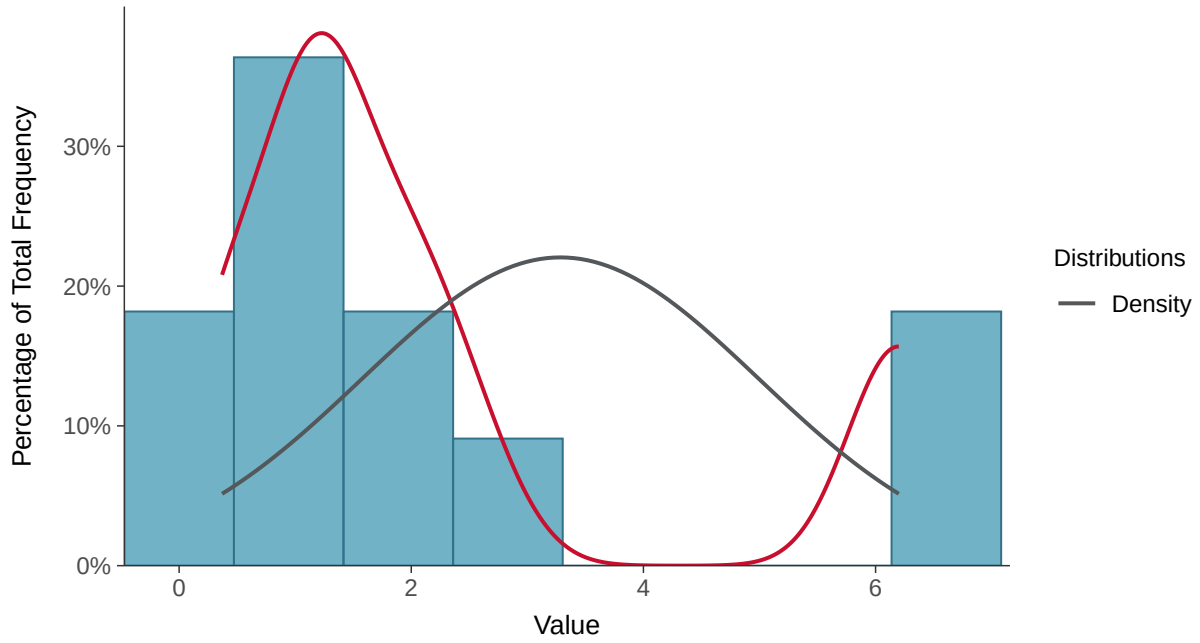
Scatter Plot

Molybdenum, MW-17001R (ug/L)



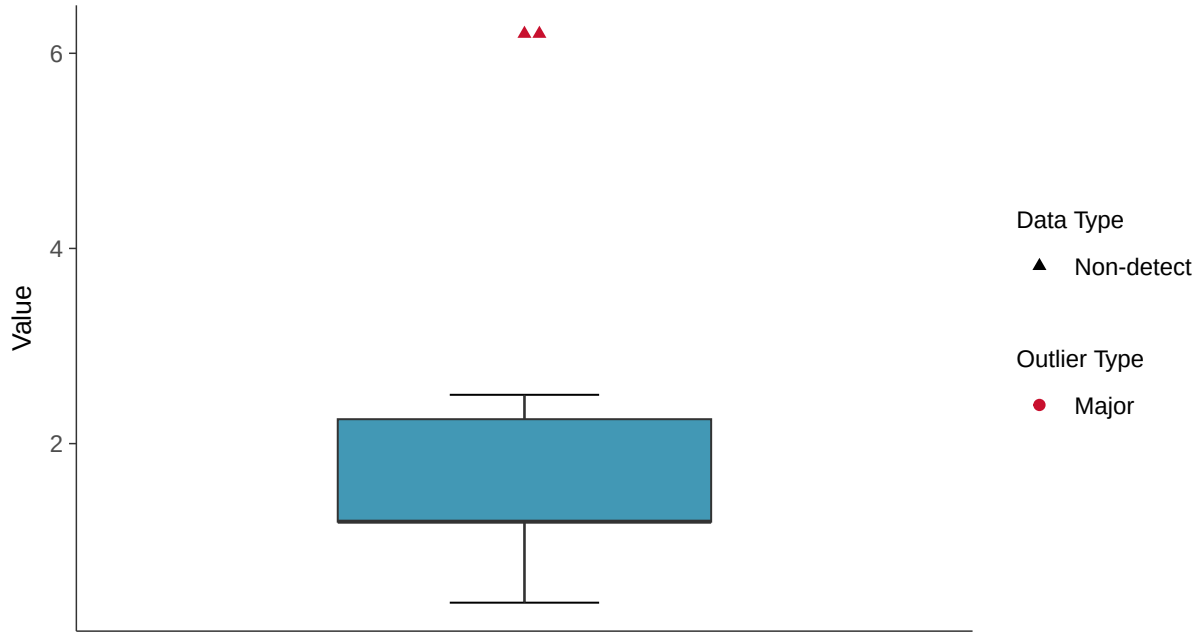
Histogram

Molybdenum, MW-17001R (ug/L)



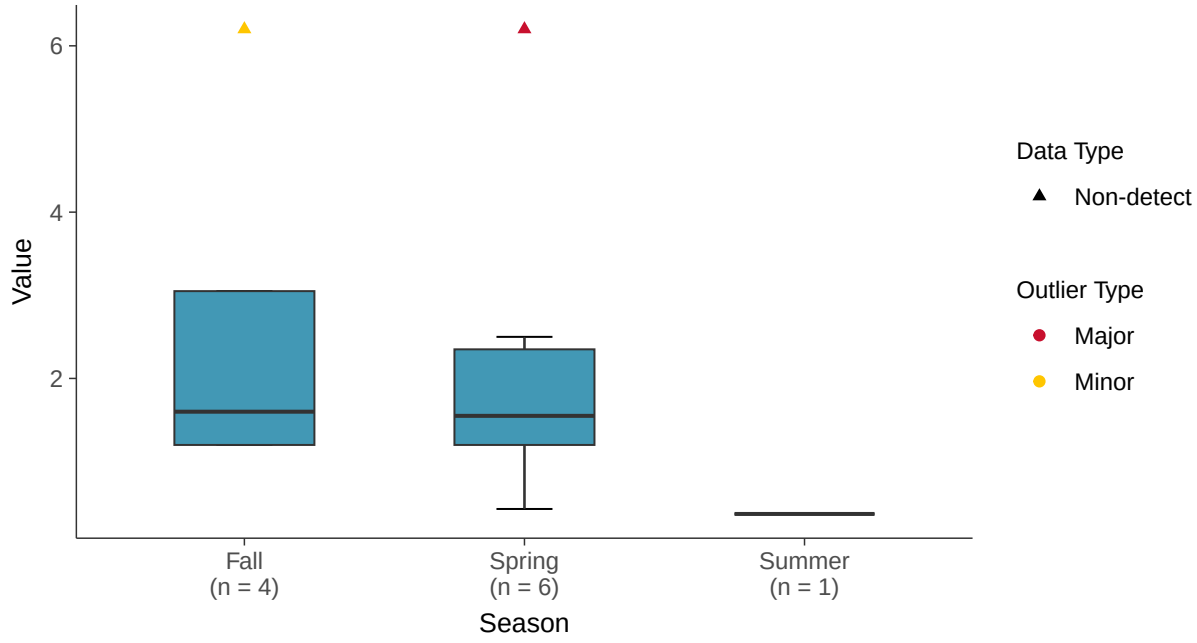
Boxplot

Molybdenum, MW-17001R (ug/L)



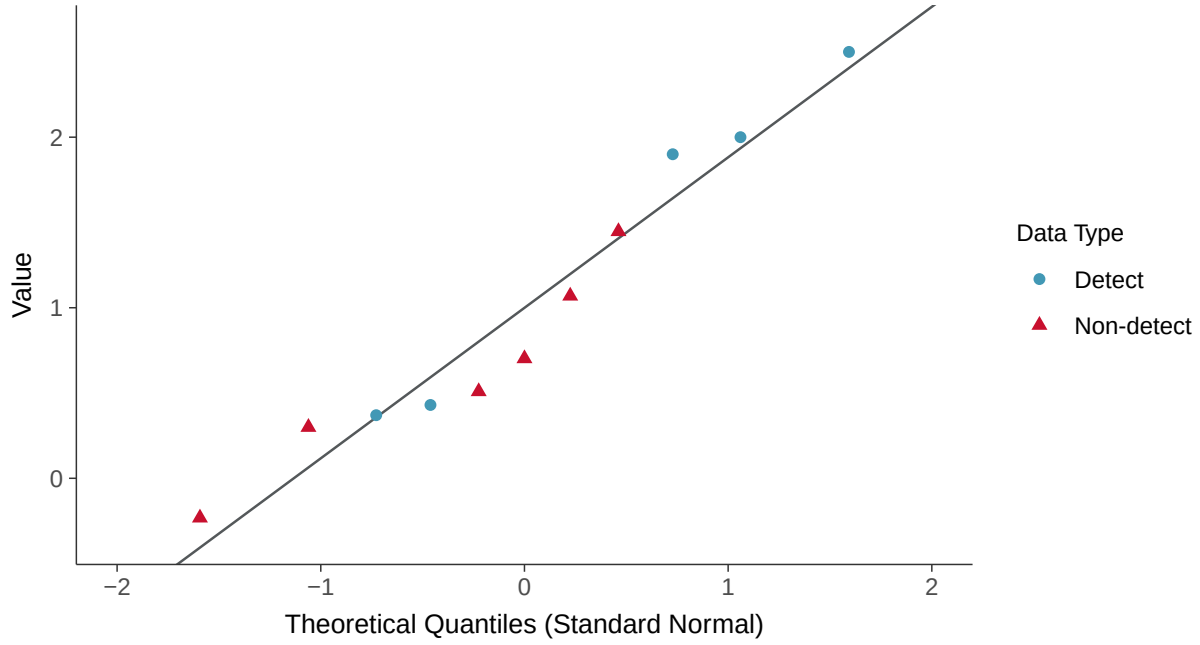
Boxplot by Season

Molybdenum, MW-17001R (ug/L)



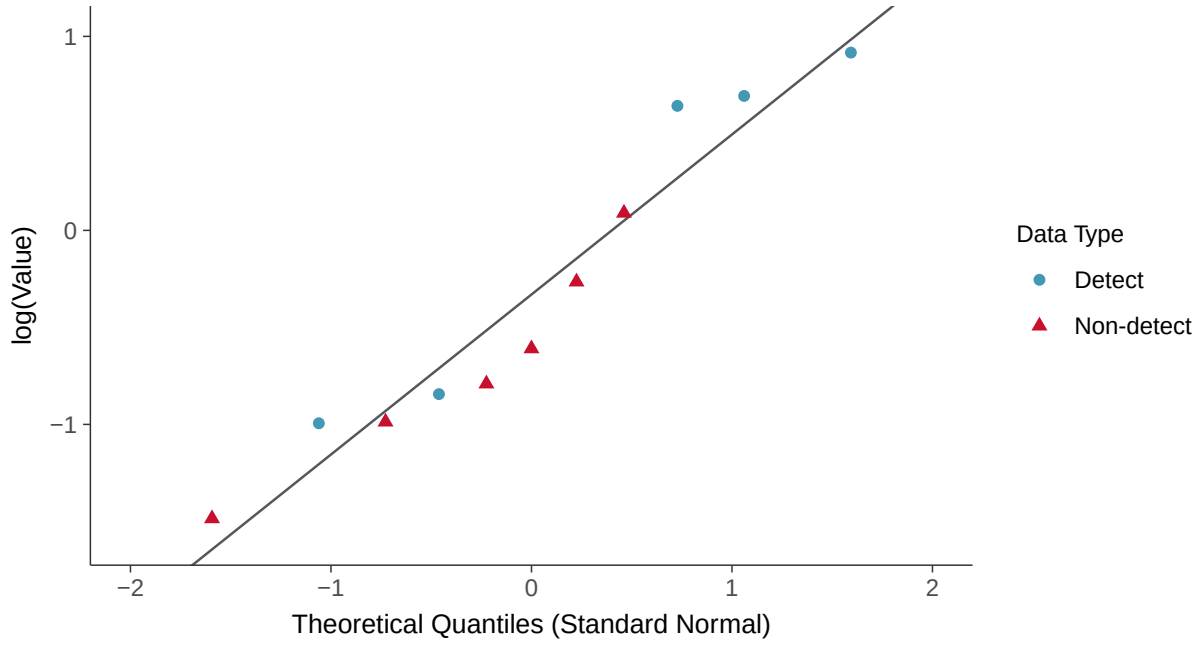
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17001R (ug/L)



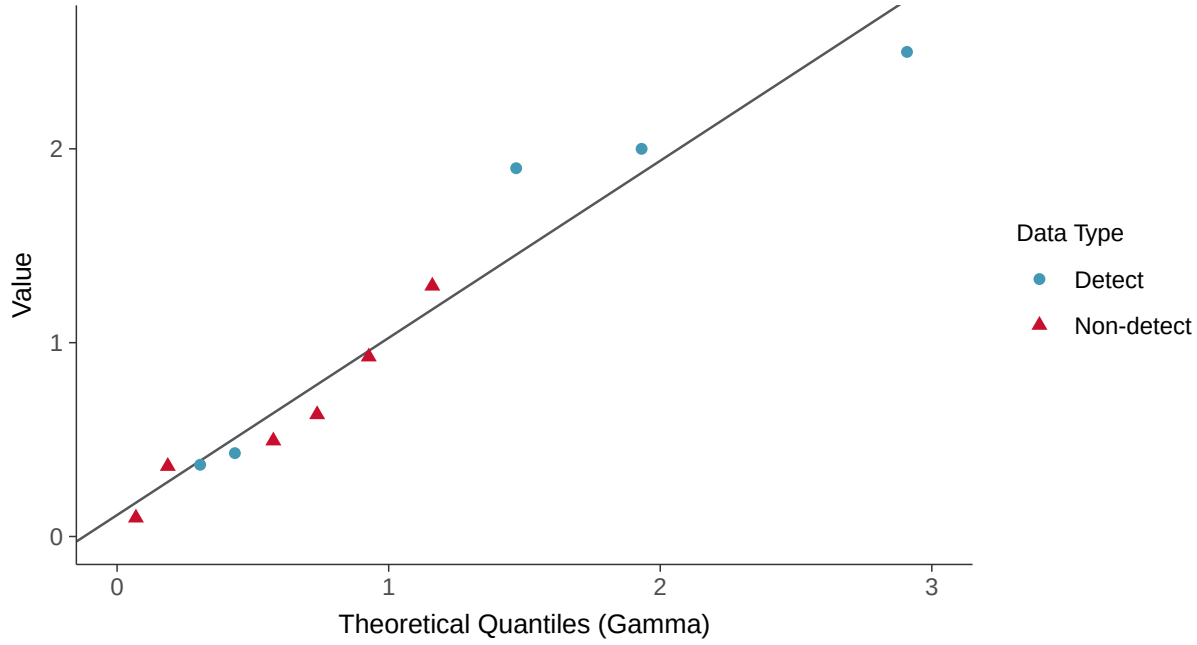
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17001R (ug/L)



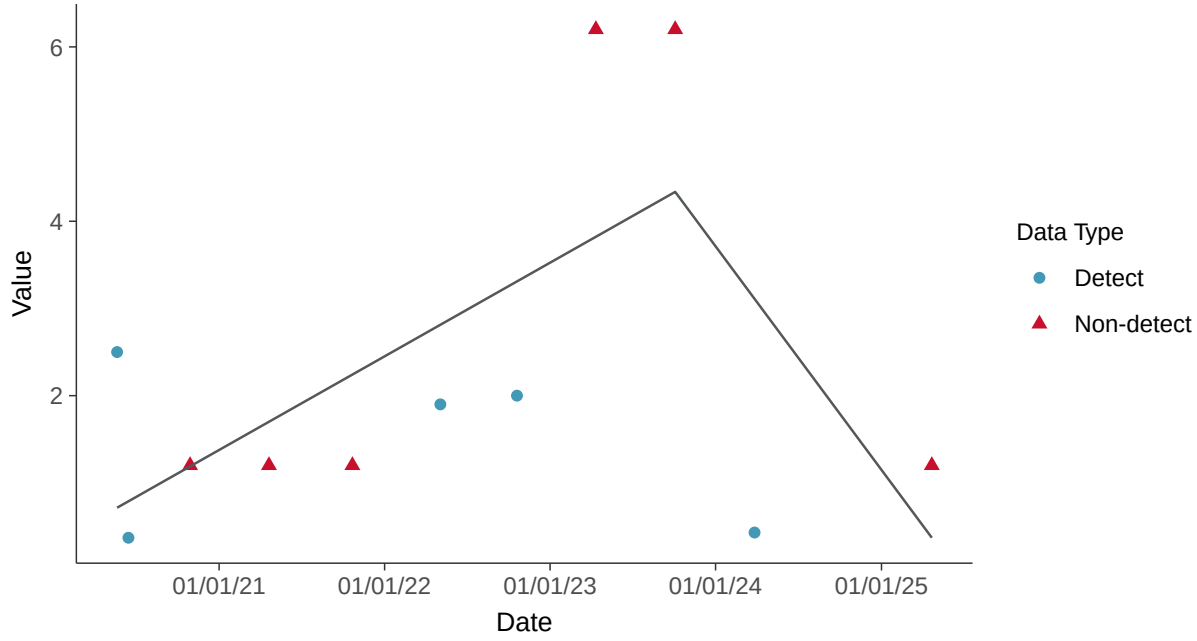
Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17001R (ug/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-17001R (ug/L)

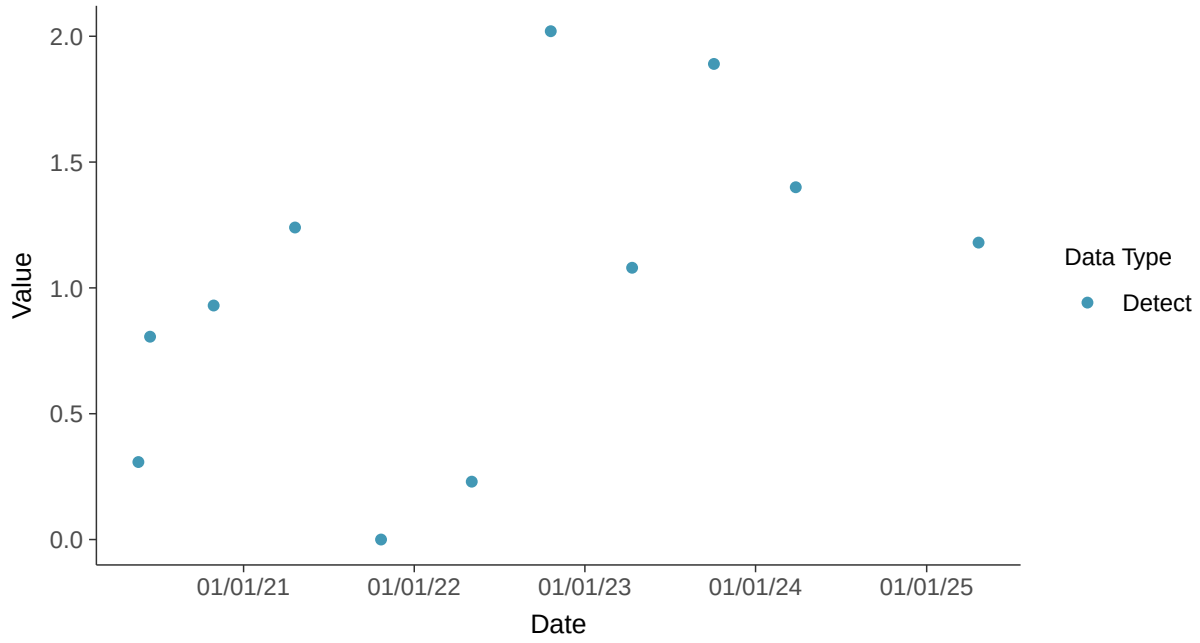


Appendix IV: Radium-226+228, MW-17001R

ID: 14_2_125

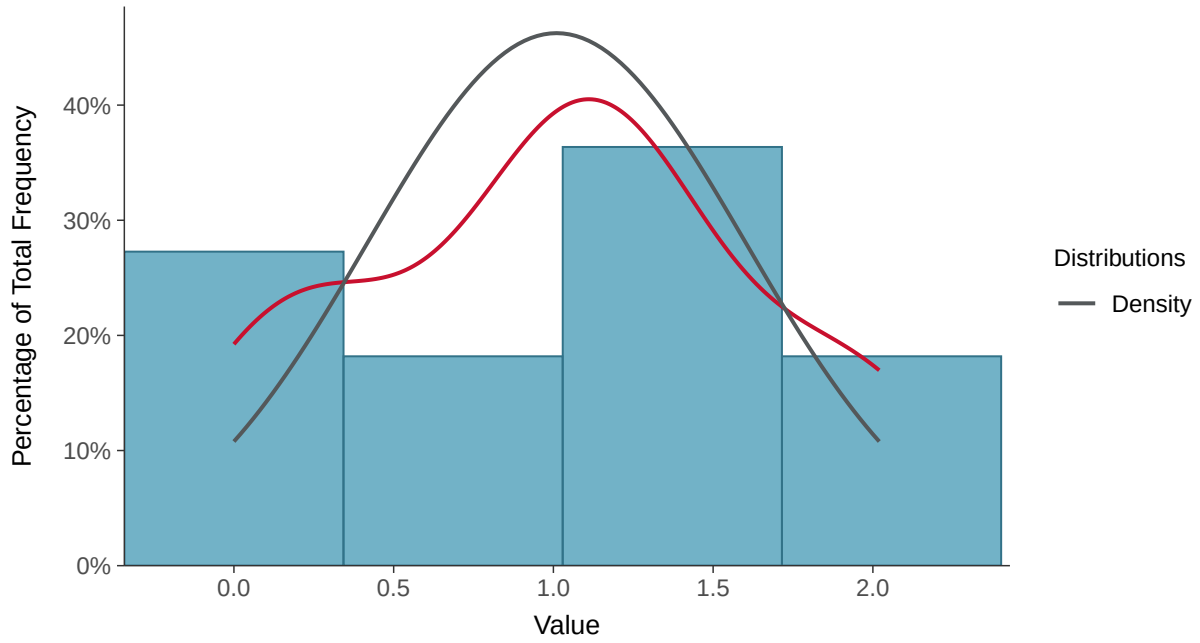
Scatter Plot

Radium-226+228, MW-17001R (pCi/L)



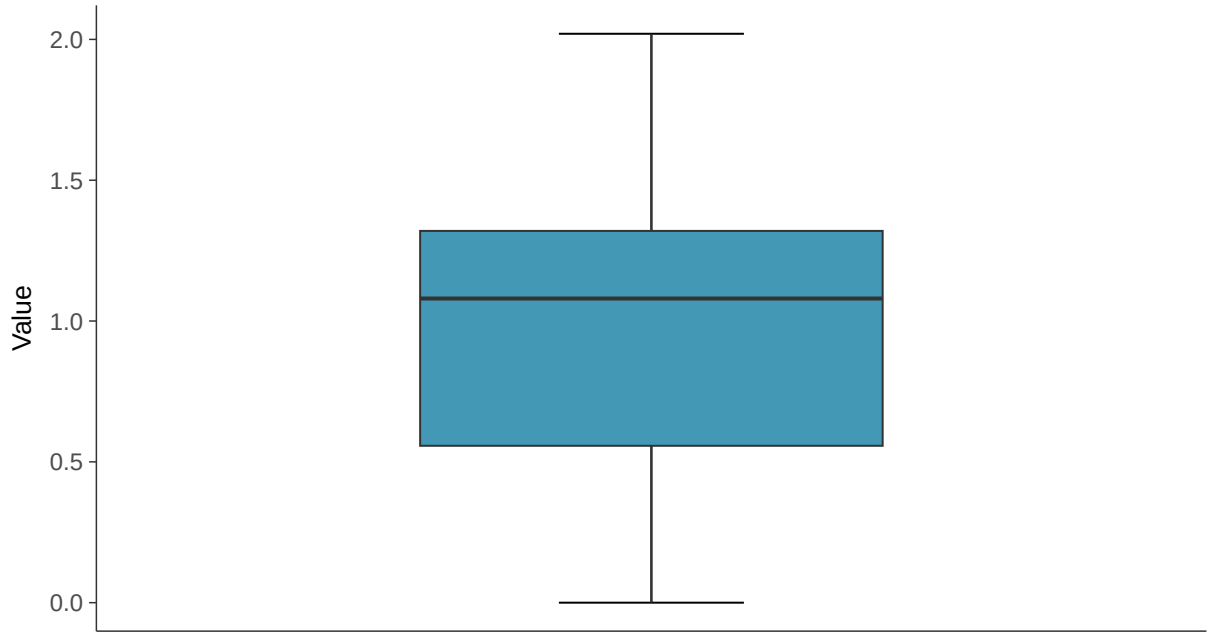
Histogram

Radium-226+228, MW-17001R (pCi/L)



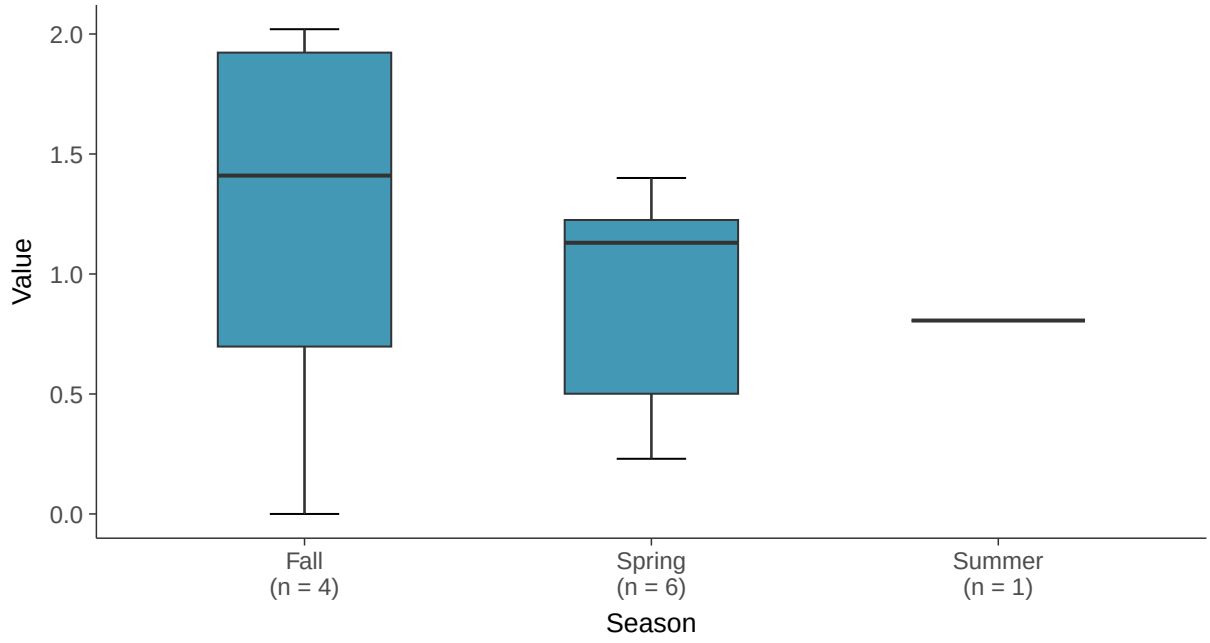
Boxplot

Radium-226+228, MW-17001R (pCi/L)



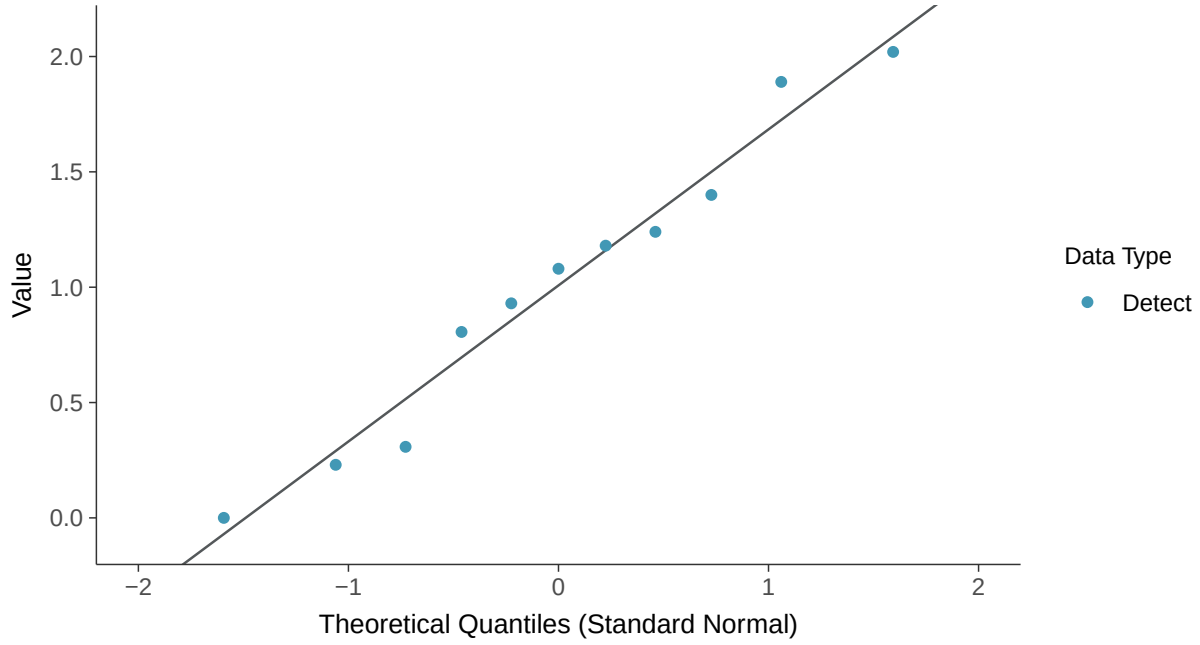
Boxplot by Season

Radium-226+228, MW-17001R (pCi/L)



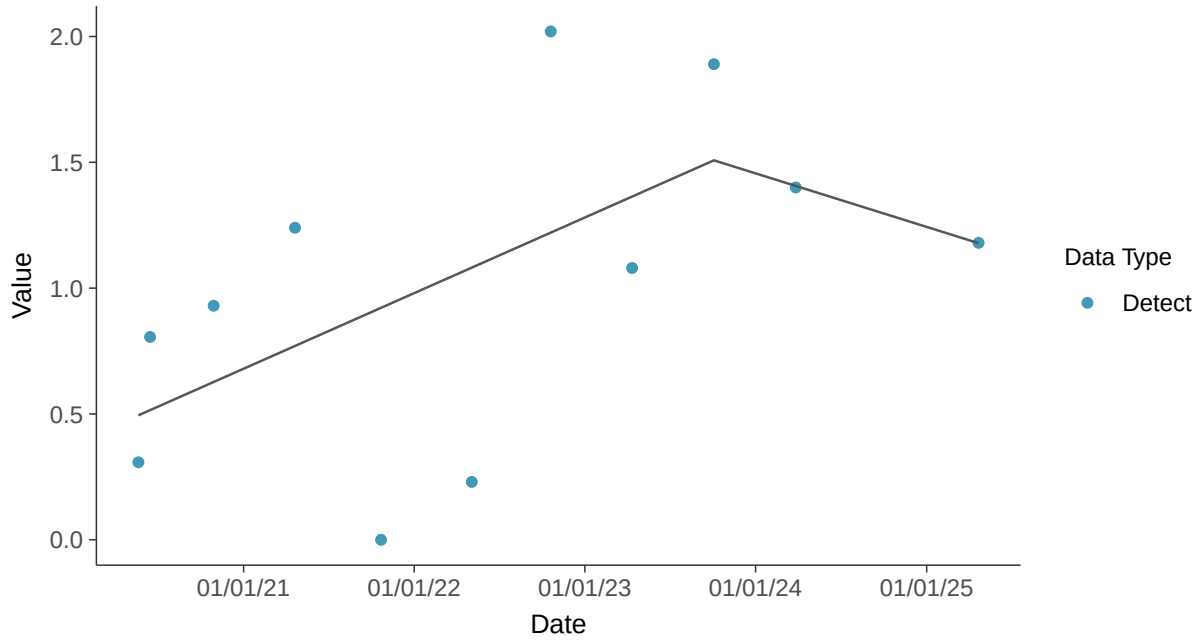
Normal Q-Q plot

Radium-226+228, MW-17001R (pCi/L)



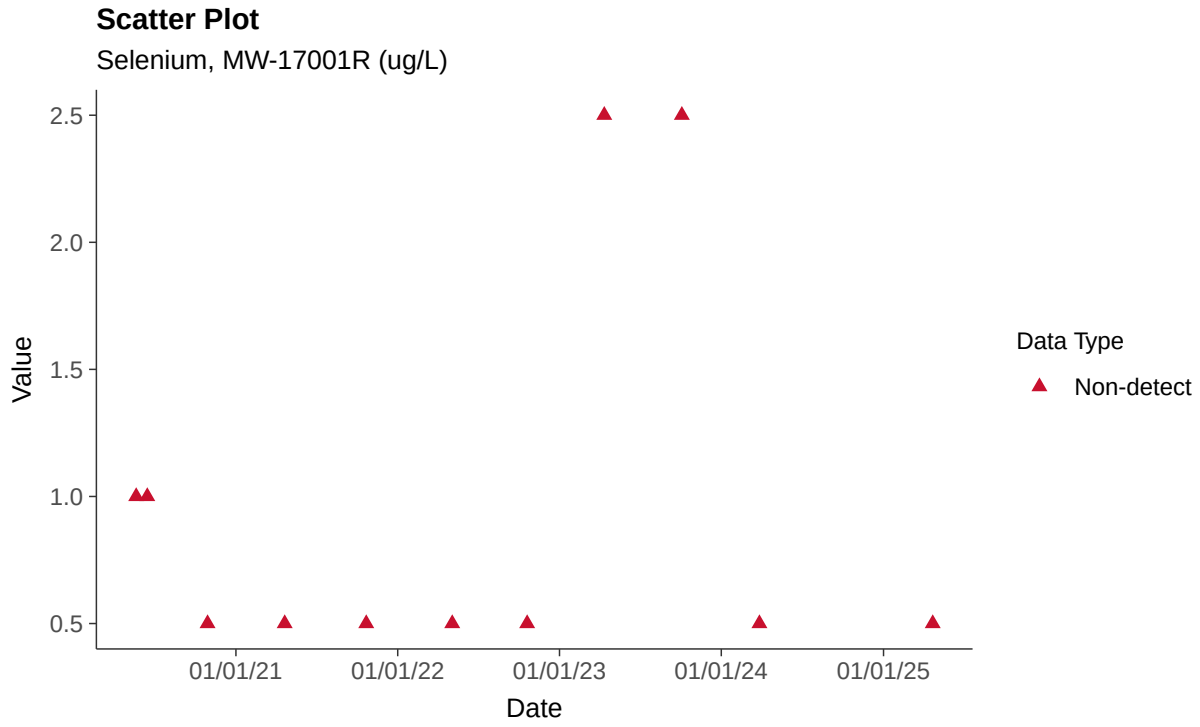
Trend Regression: Piecewise Linear-Linear

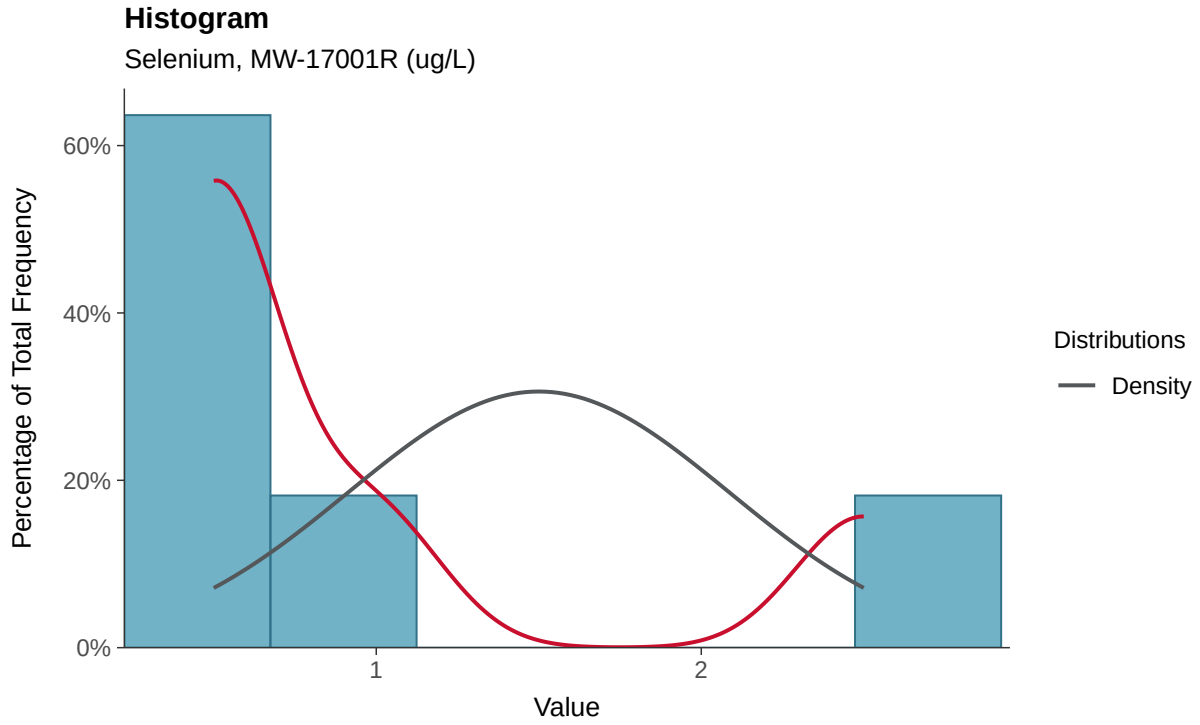
Radium-226+228, MW-17001R (pCi/L)



Appendix IV: Selenium, MW-17001R

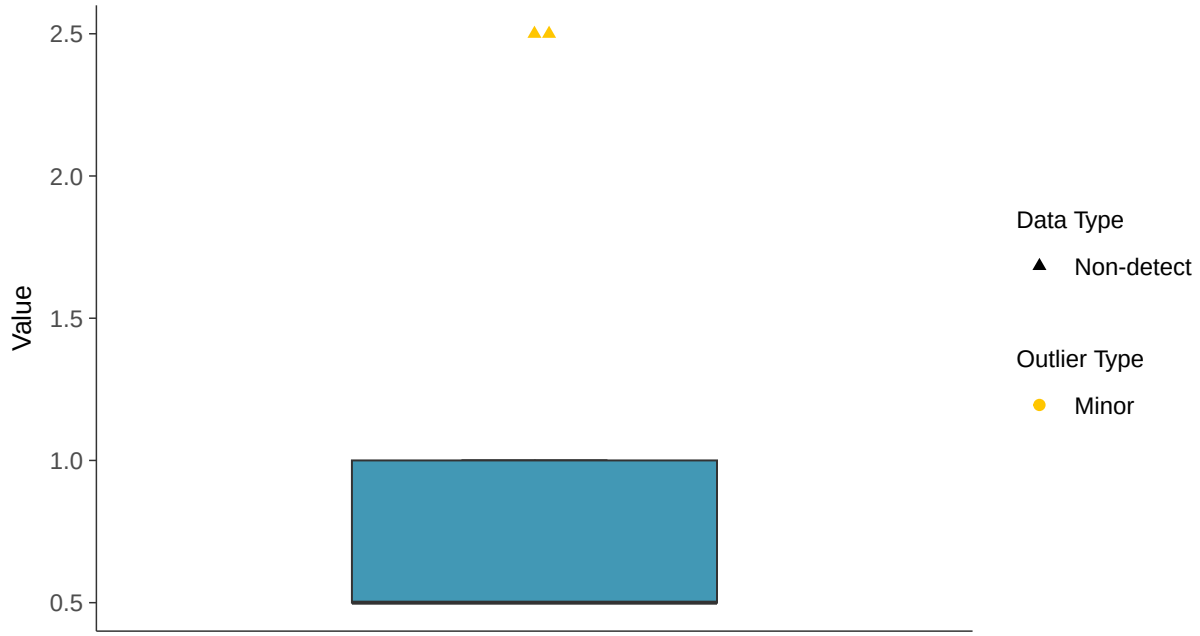
ID: 14_2_127





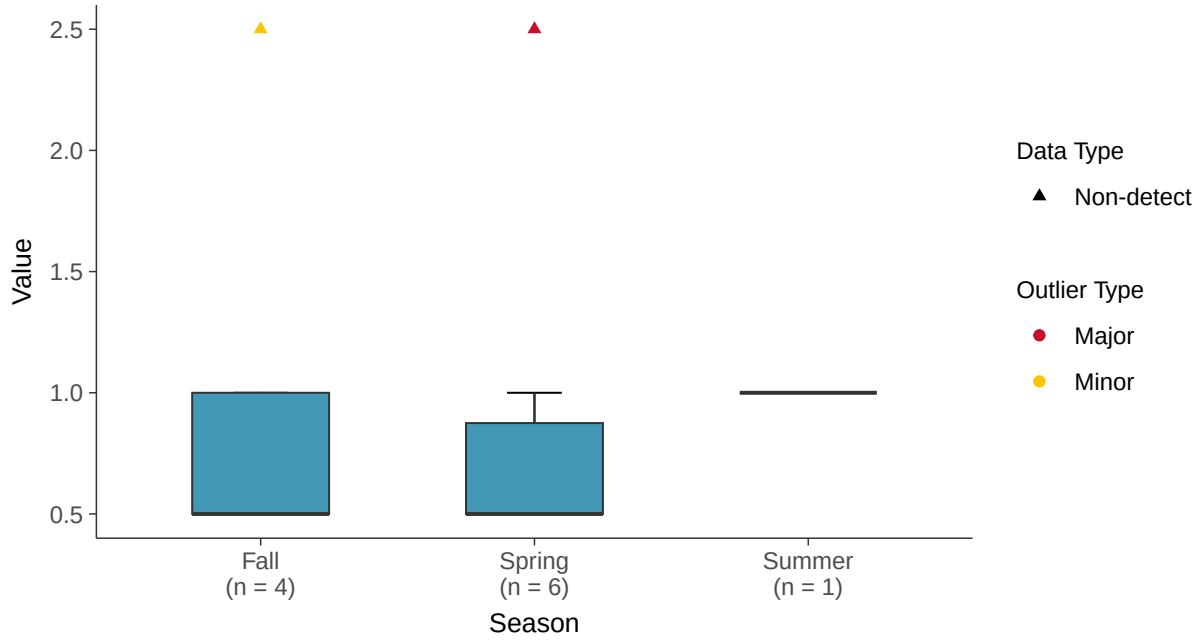
Boxplot

Selenium, MW-17001R (ug/L)



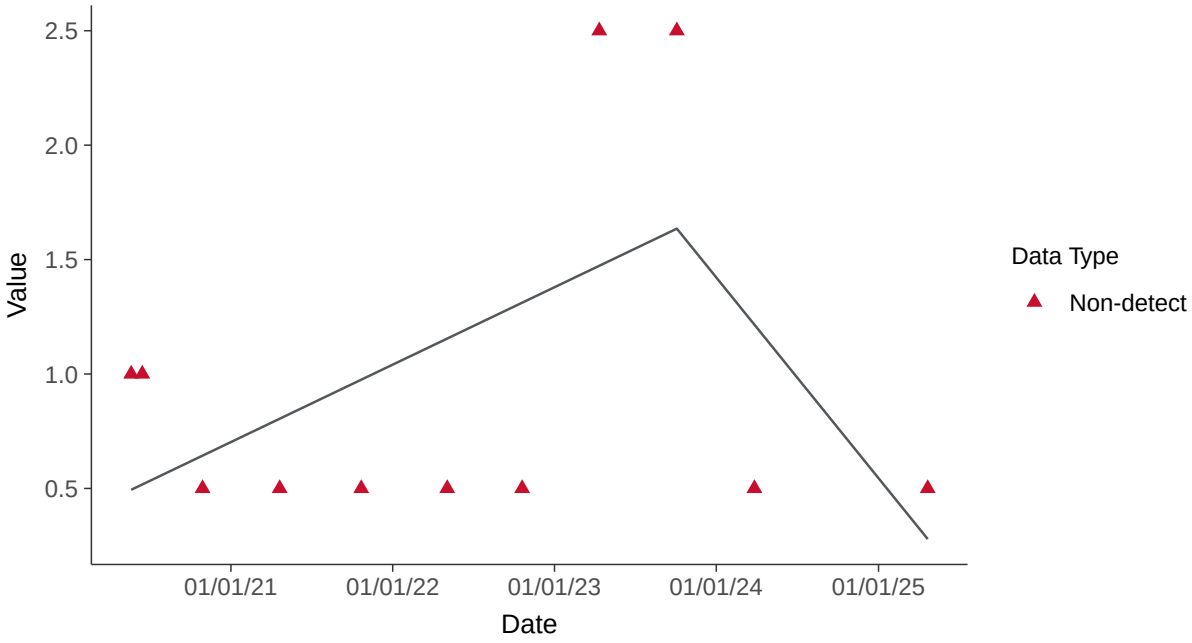
Boxplot by Season

Selenium, MW-17001R (ug/L)



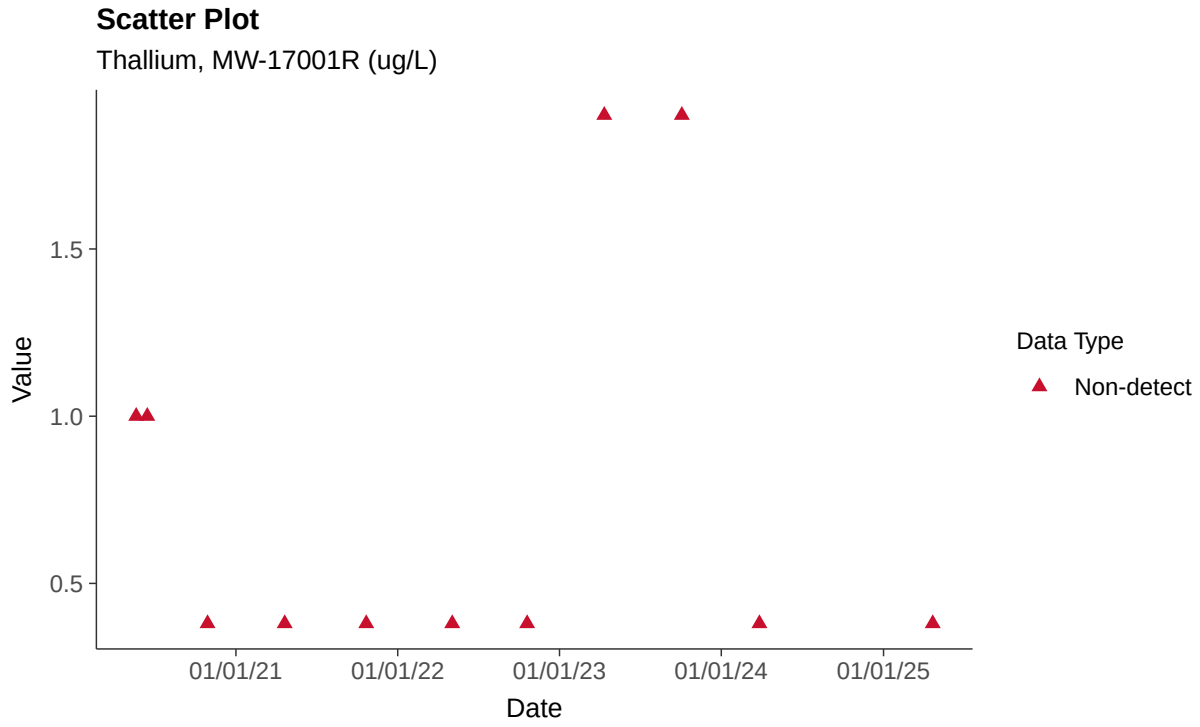
Trend Regression: Piecewise Linear-Linear

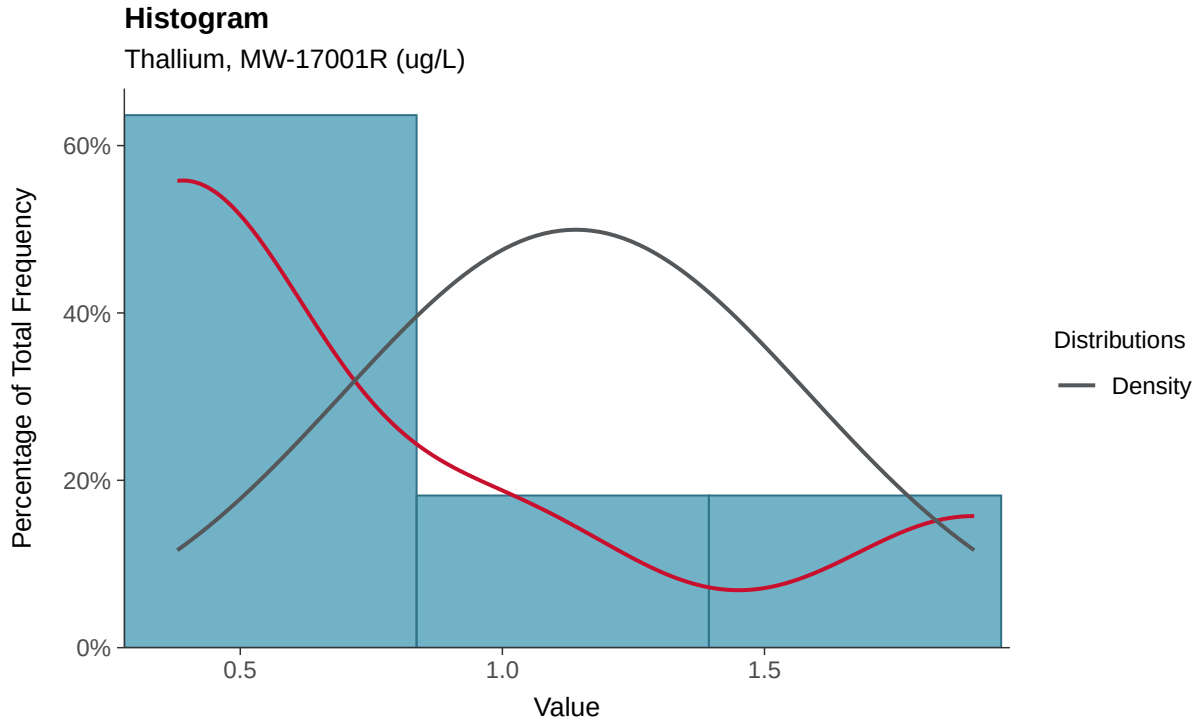
Selenium, MW-17001R (ug/L)



Appendix IV: Thallium, MW-17001R

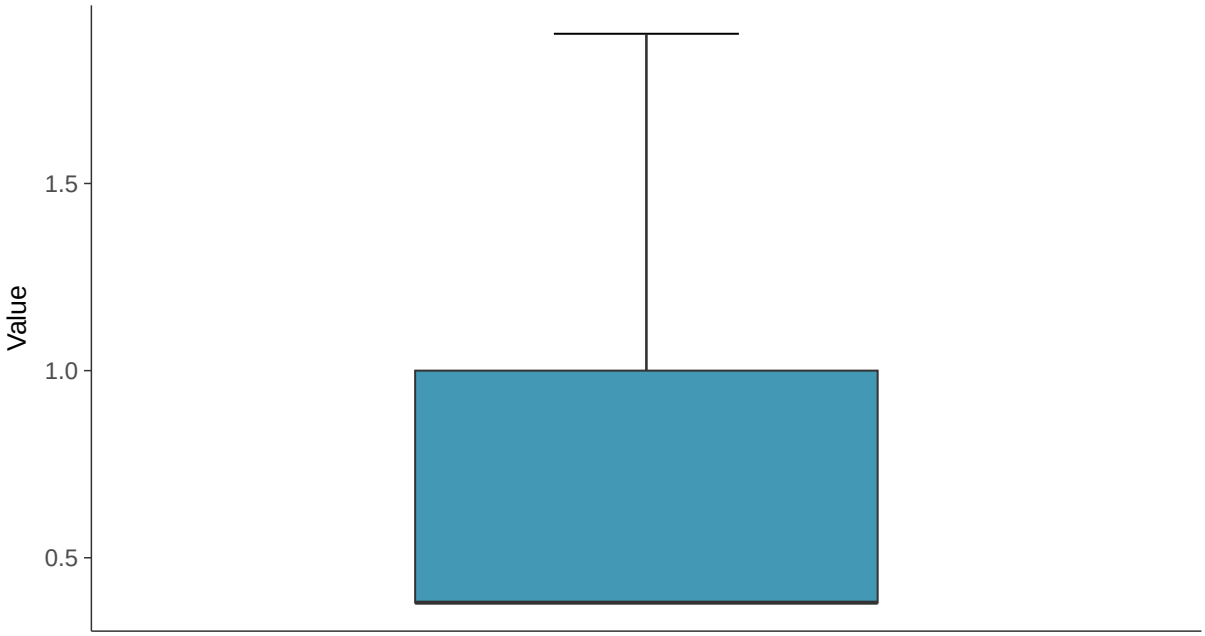
ID: 14_2_131





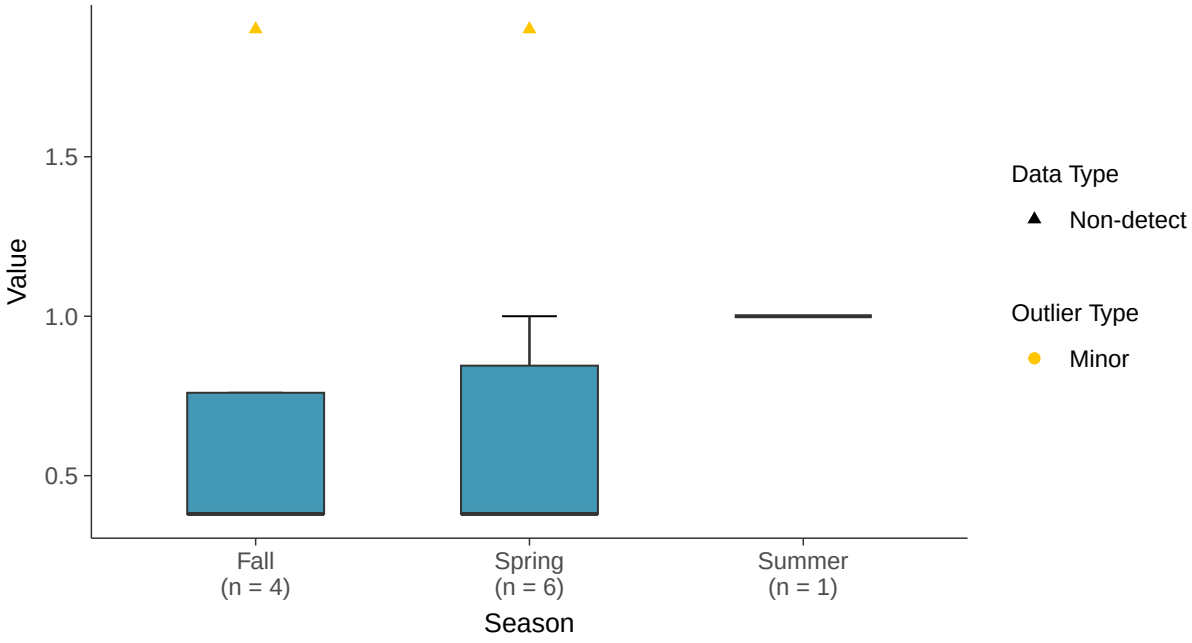
Boxplot

Thallium, MW-17001R (ug/L)



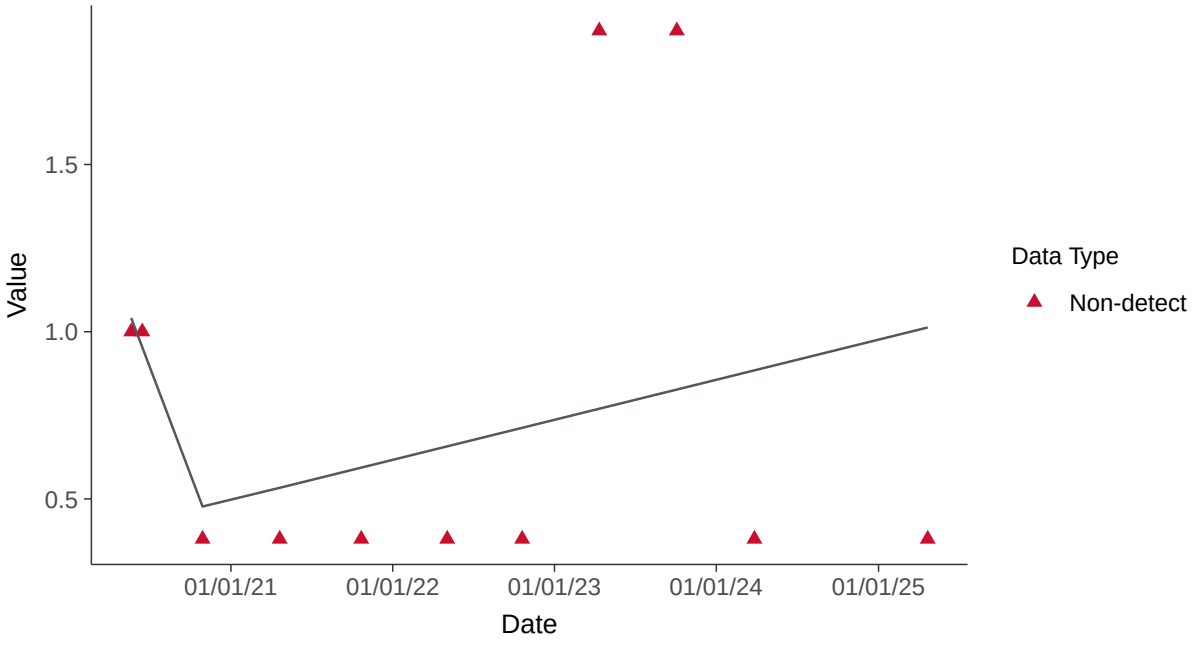
Boxplot by Season

Thallium, MW-17001R (ug/L)



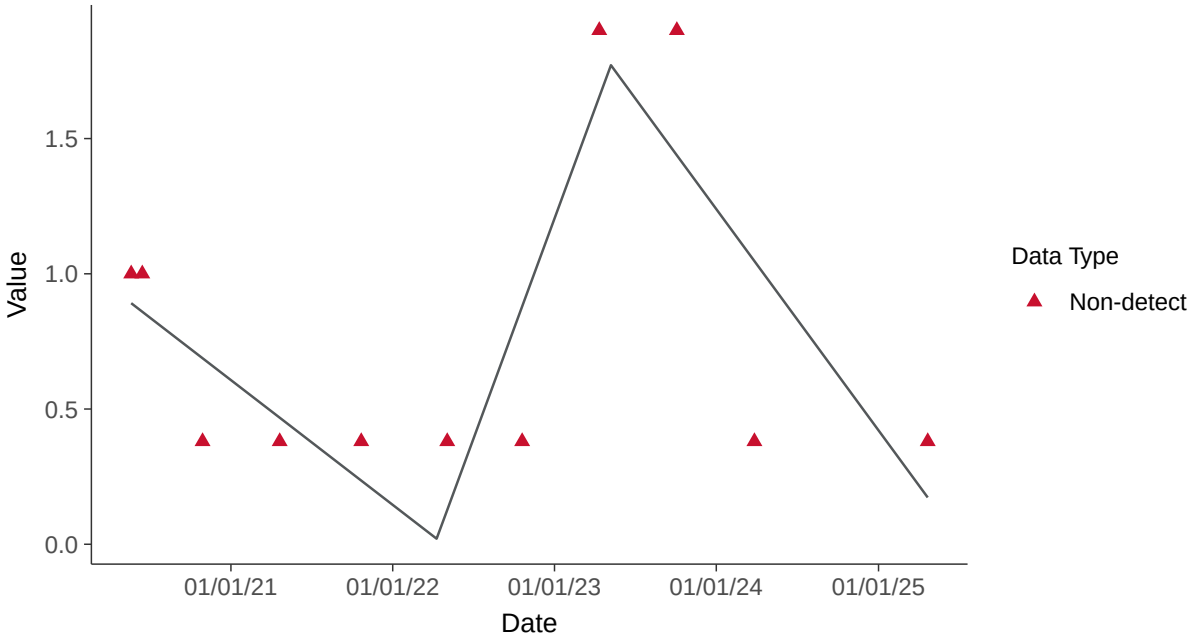
Trend Regression: Piecewise Linear-Linear

Thallium, MW-17001R (ug/L)



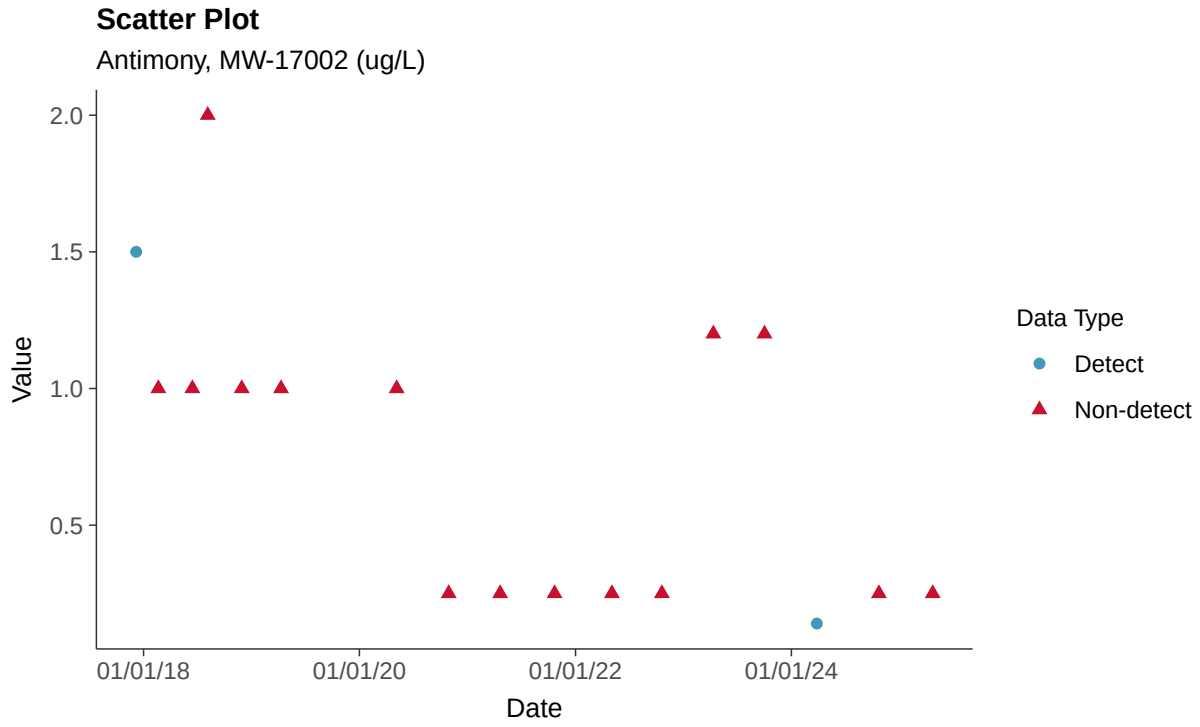
Trend Regression: Piecewise Linear-Linear-Linear

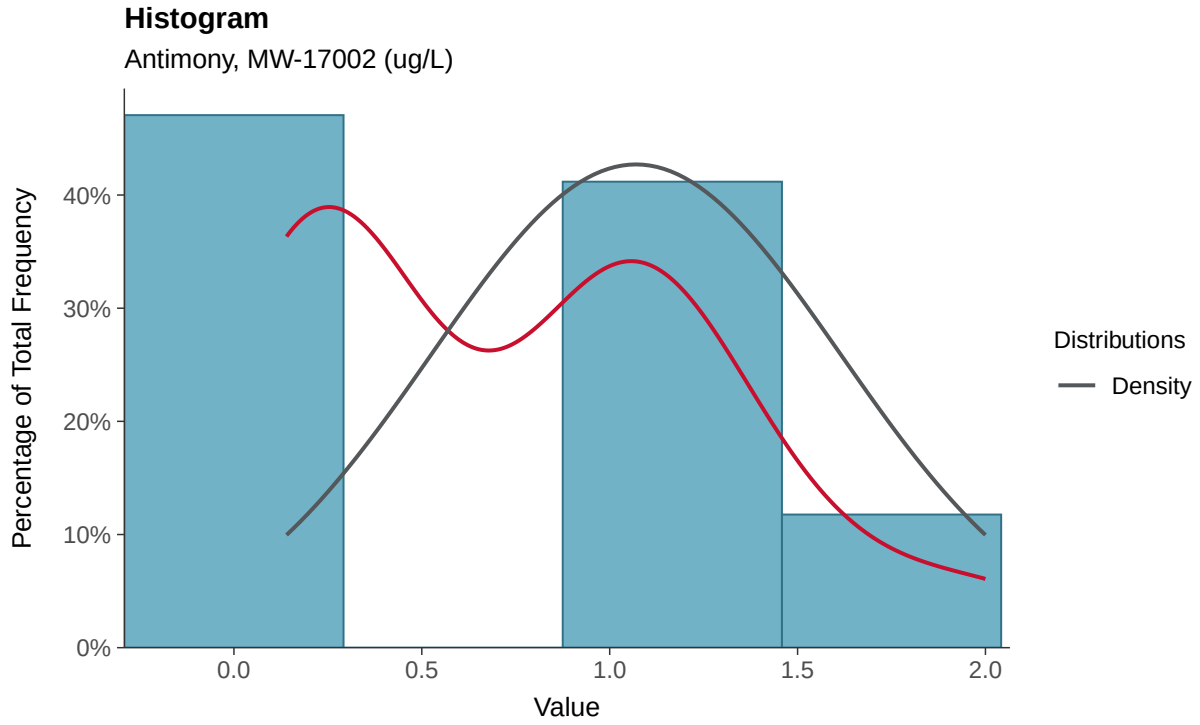
Thallium, MW-17001R (ug/L)



Appendix IV: Antimony, MW-17002

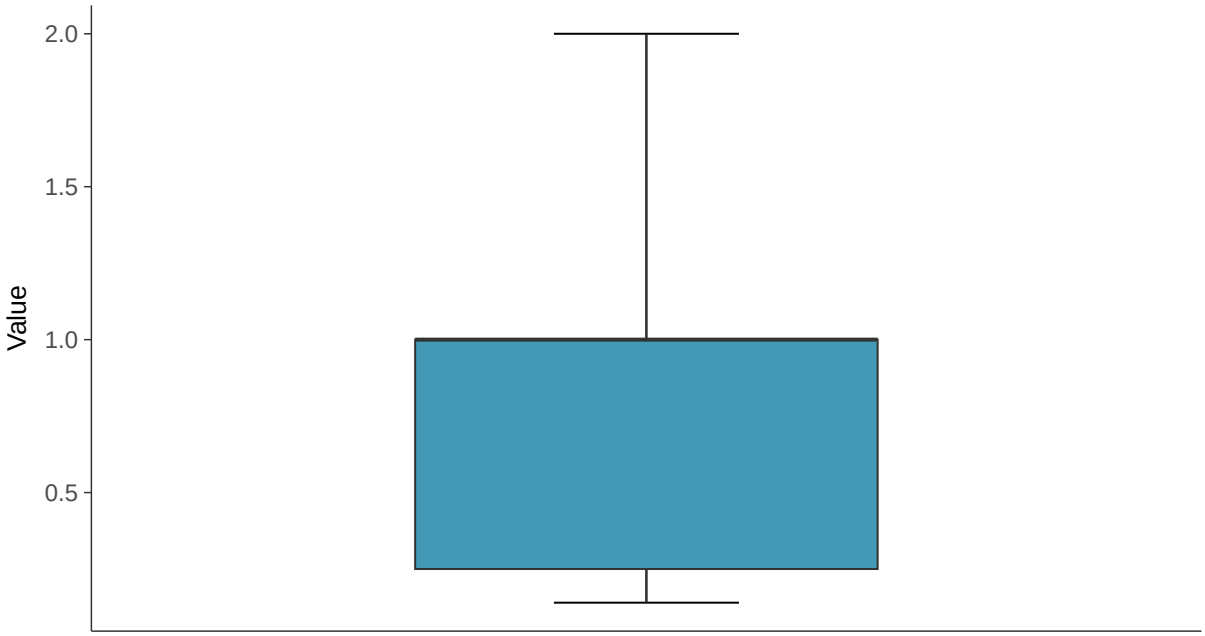
ID: 15_2_101





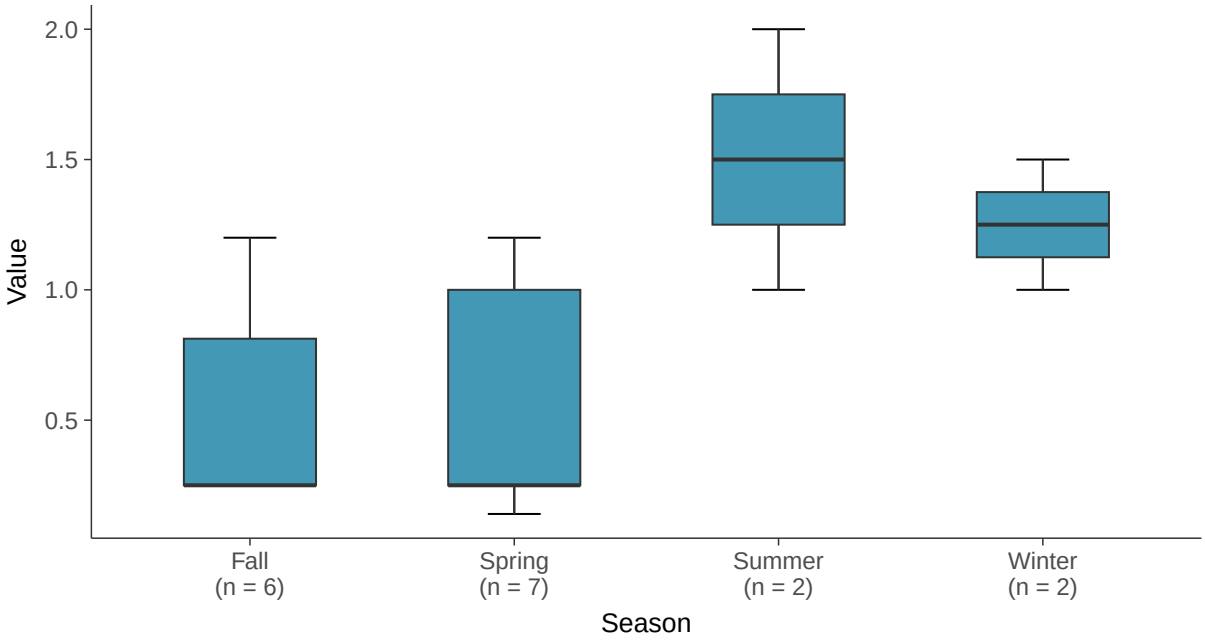
Boxplot

Antimony, MW-17002 (ug/L)



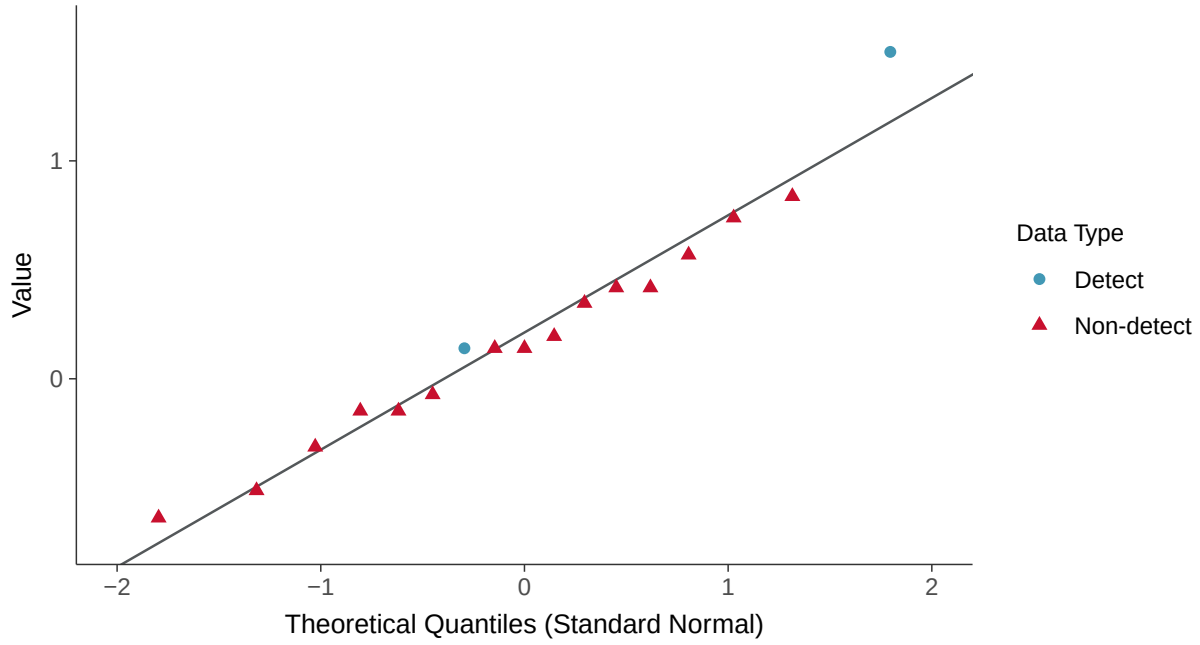
Boxplot by Season

Antimony, MW-17002 (ug/L)



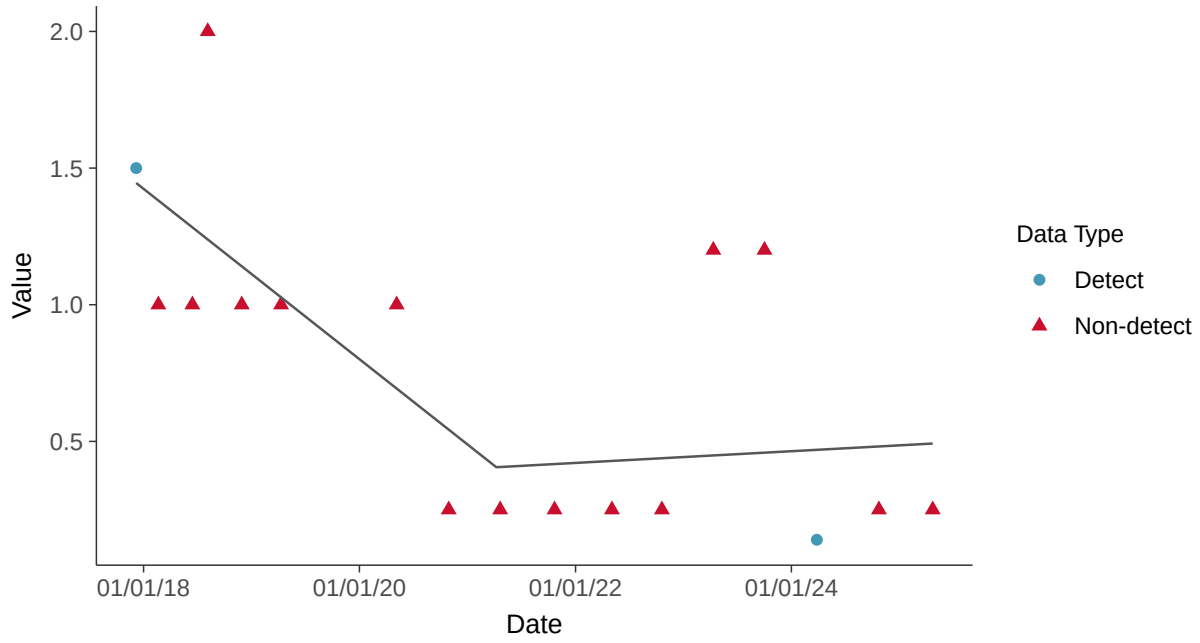
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-17002 (ug/L)



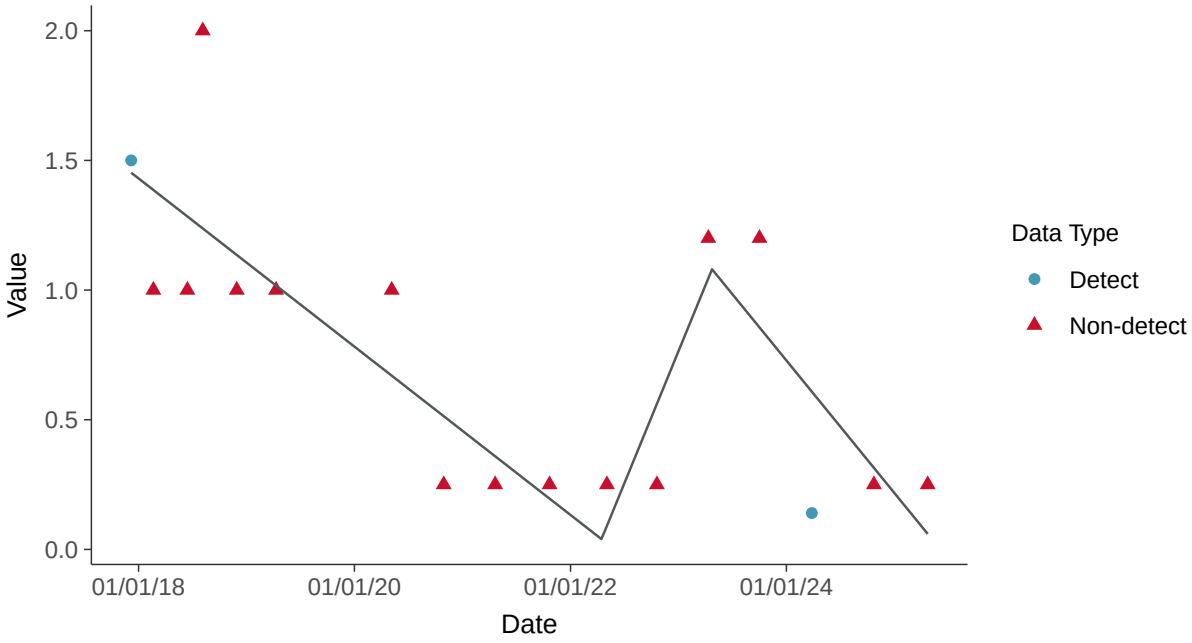
Trend Regression: Piecewise Linear-Linear

Antimony, MW-17002 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-17002 (ug/L)

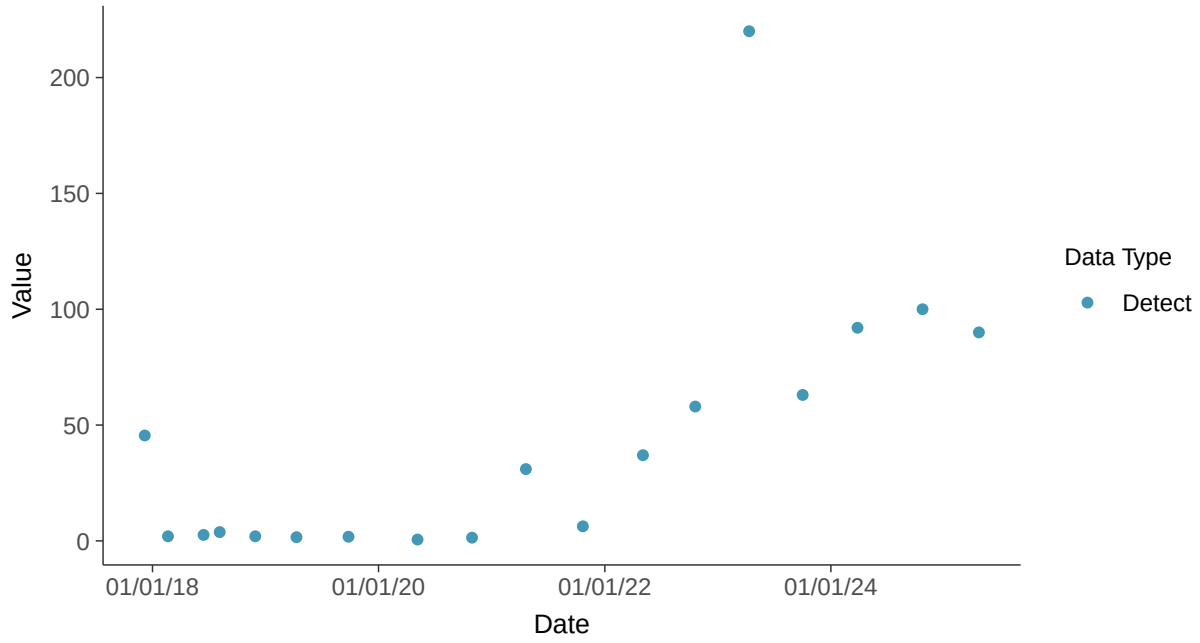


Appendix IV: Arsenic, MW-17002

ID: 15_2_102

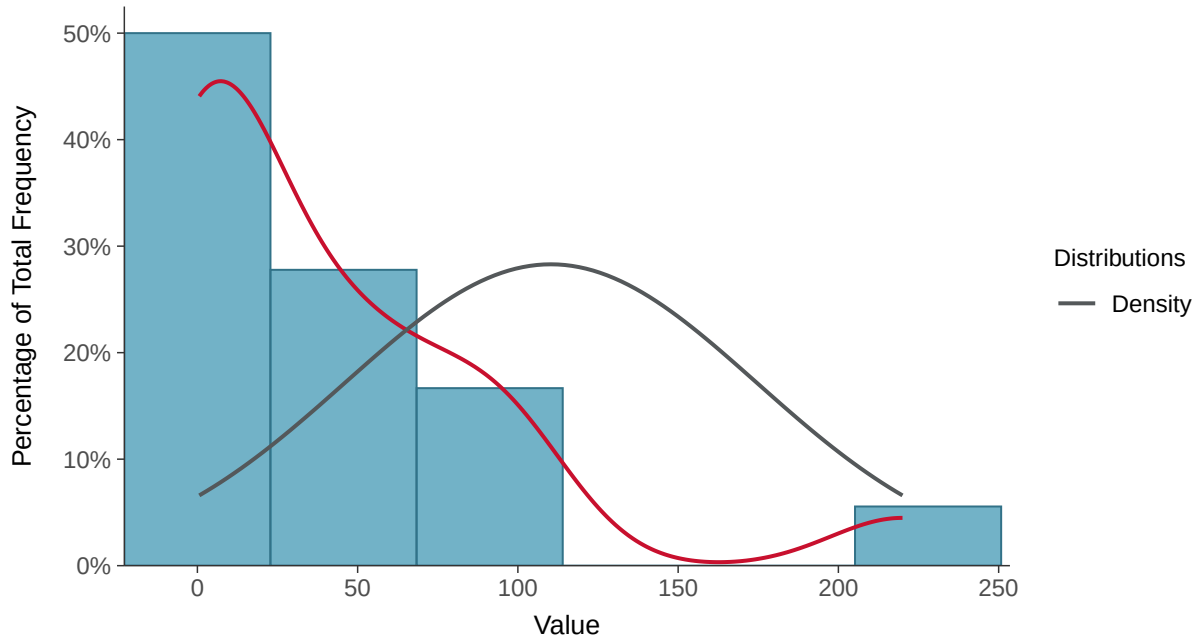
Scatter Plot

Arsenic, MW-17002 (ug/L)



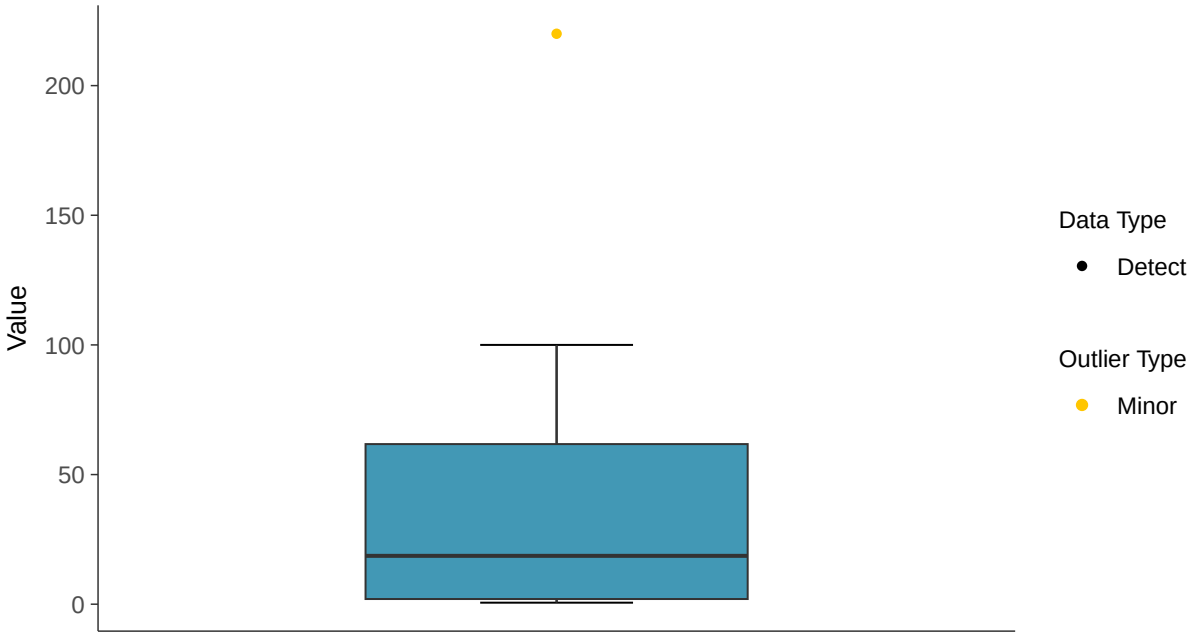
Histogram

Arsenic, MW-17002 (ug/L)



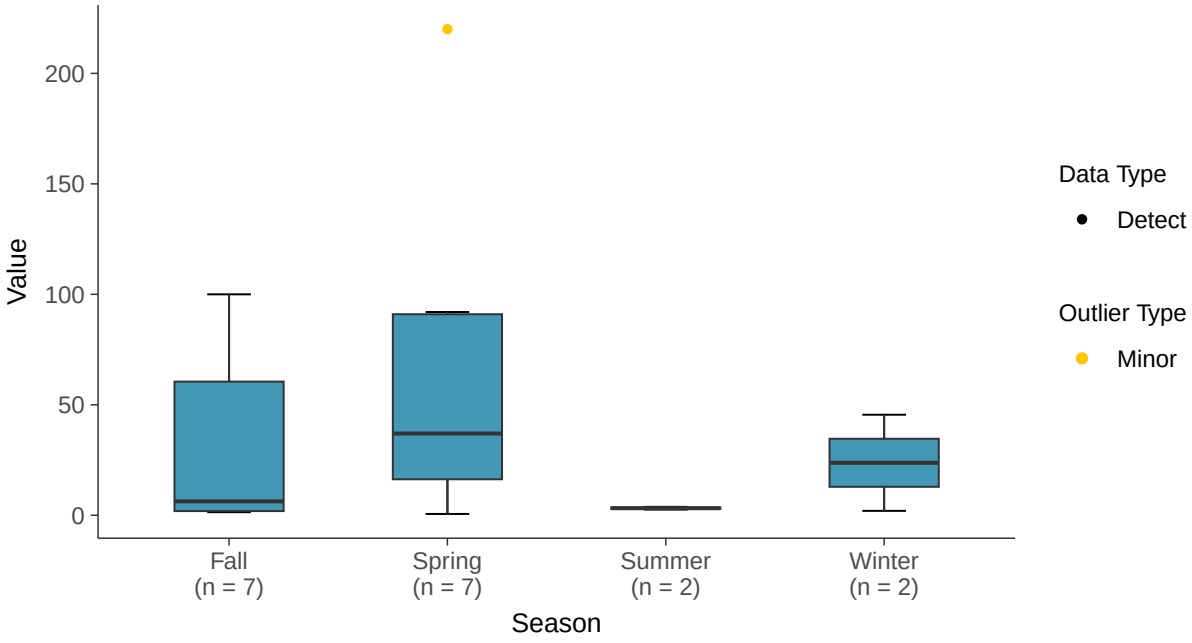
Boxplot

Arsenic, MW-17002 (ug/L)



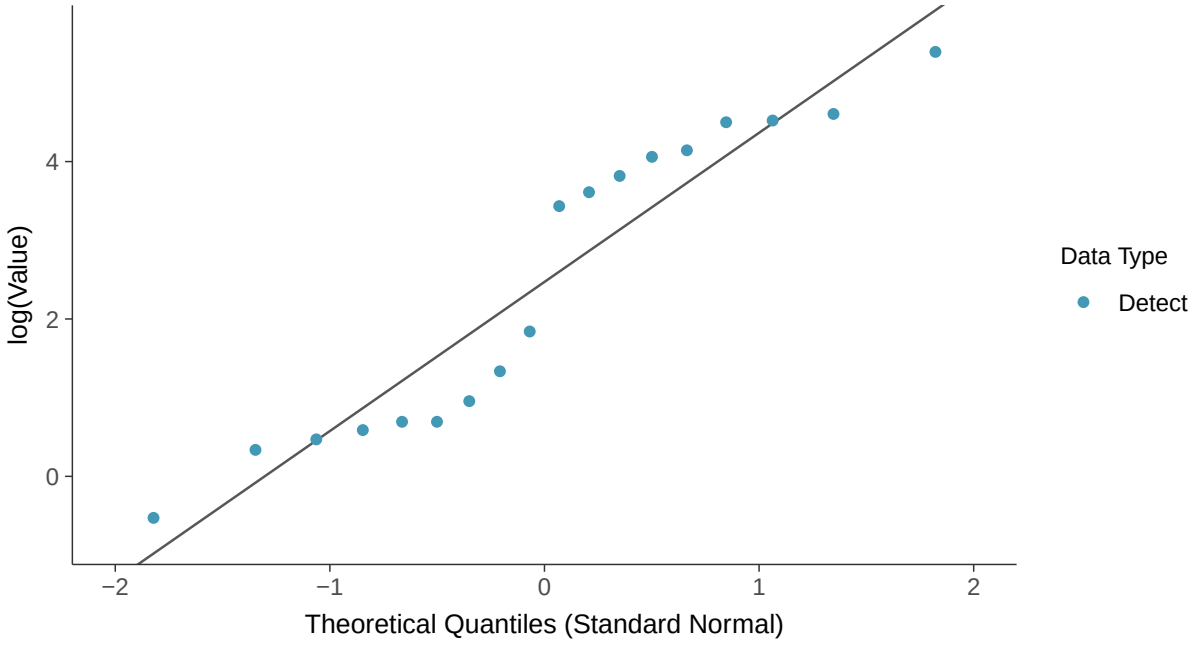
Boxplot by Season

Arsenic, MW-17002 (ug/L)



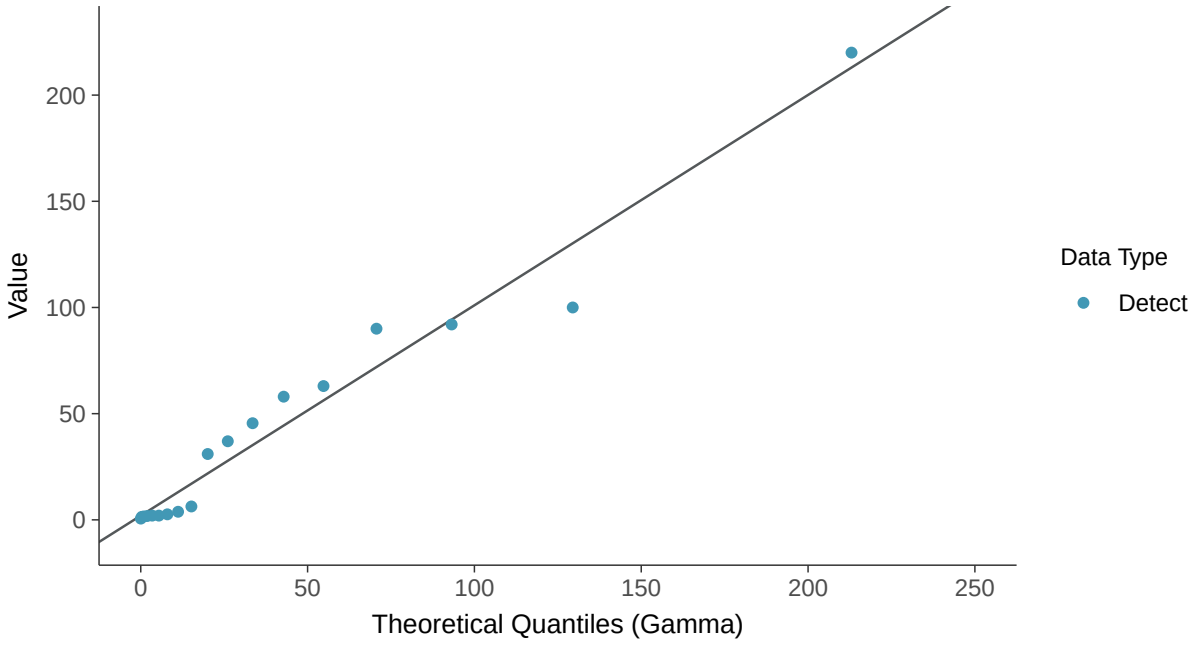
Lognormal Q-Q plot

Arsenic, MW-17002 (ug/L)



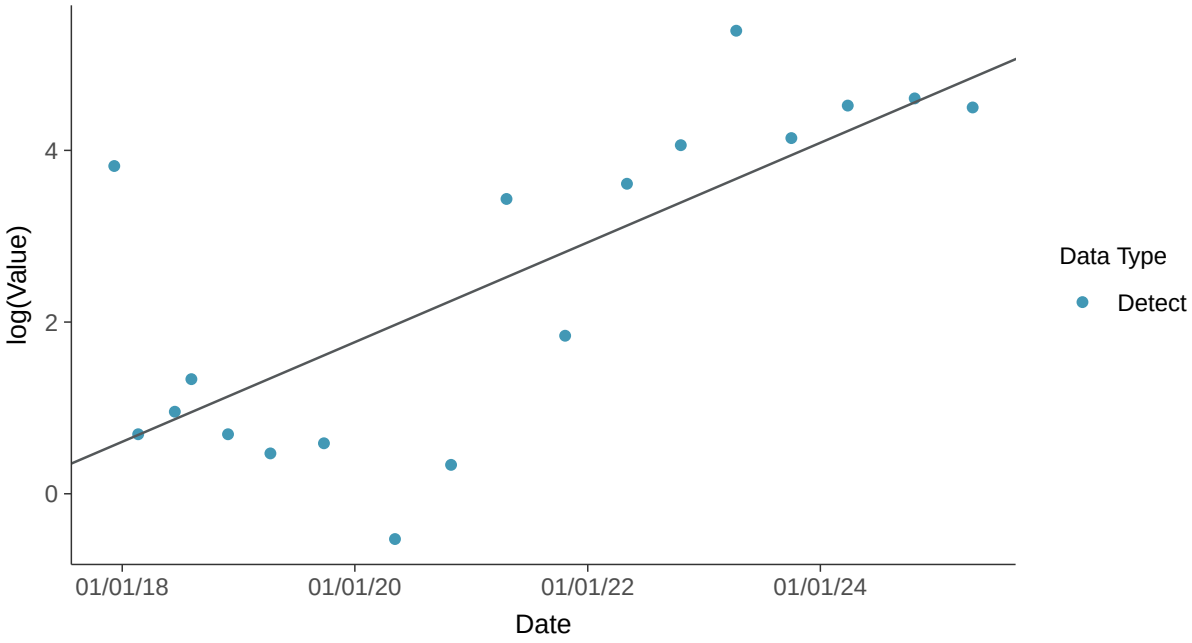
Gamma Q-Q plot

Arsenic, MW-17002 (ug/L)



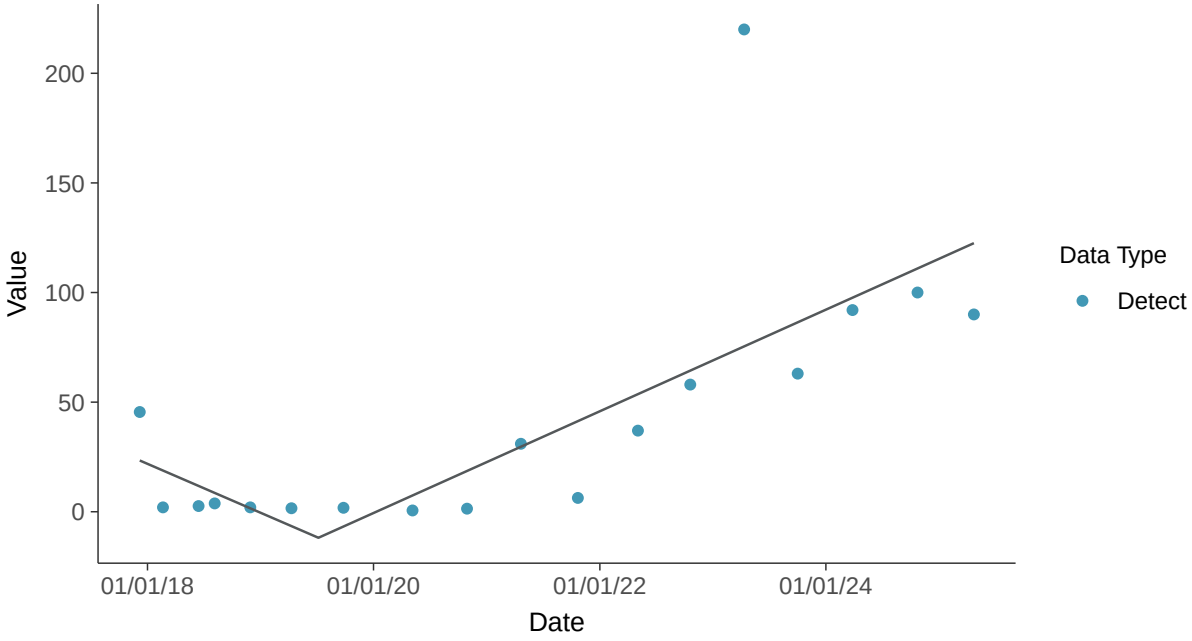
Trend Regression: Lognormal MLE

Arsenic, MW-17002 (ug/L)



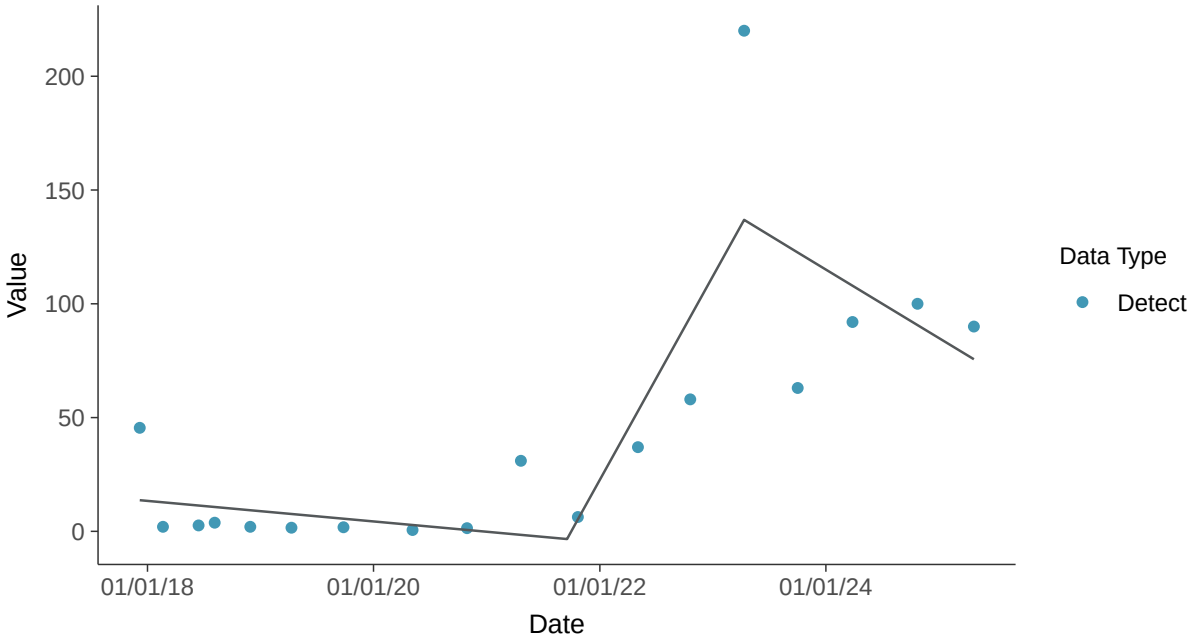
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-17002 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-17002 (ug/L)

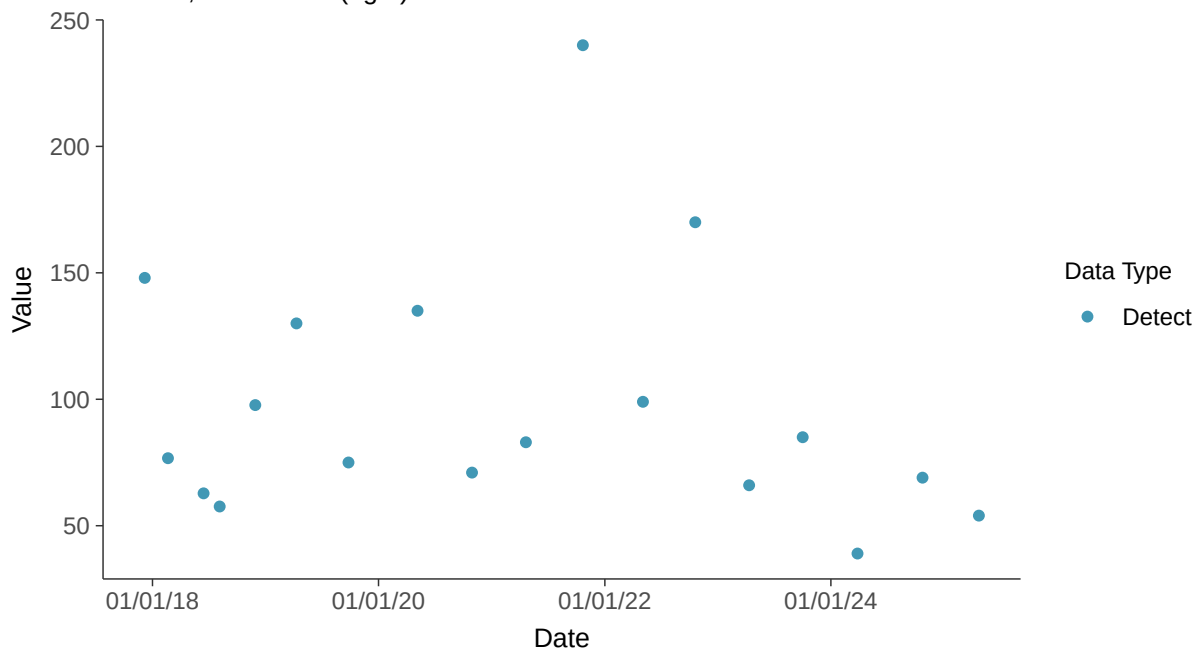


Appendix IV: Barium, MW-17002

ID: 15_2_103

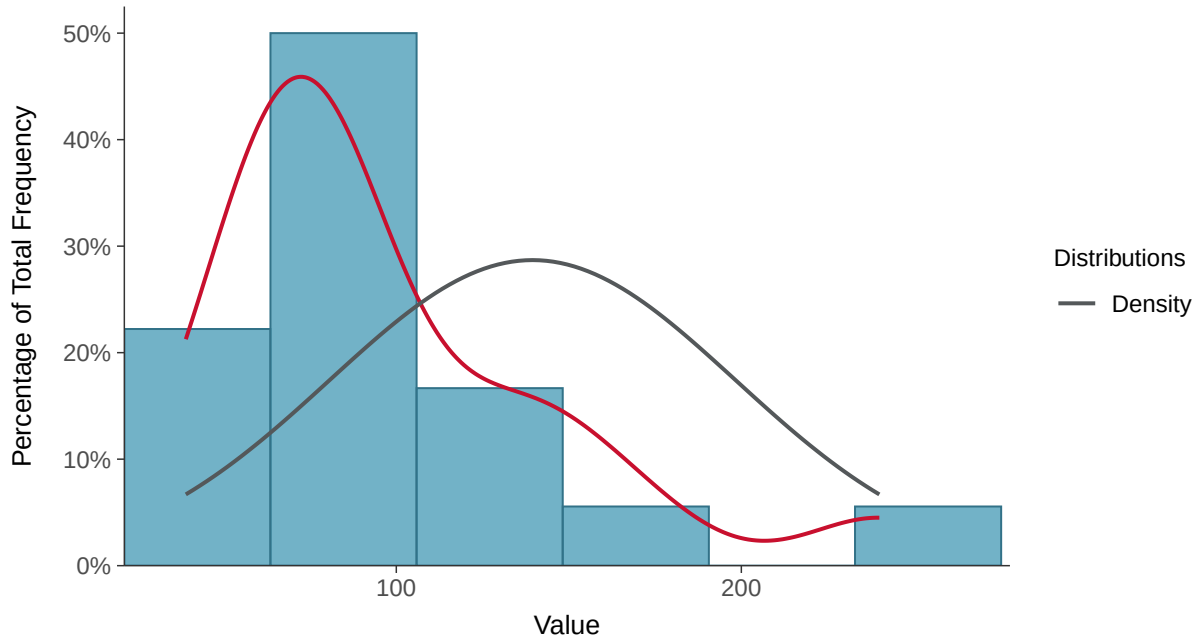
Scatter Plot

Barium, MW-17002 (ug/L)



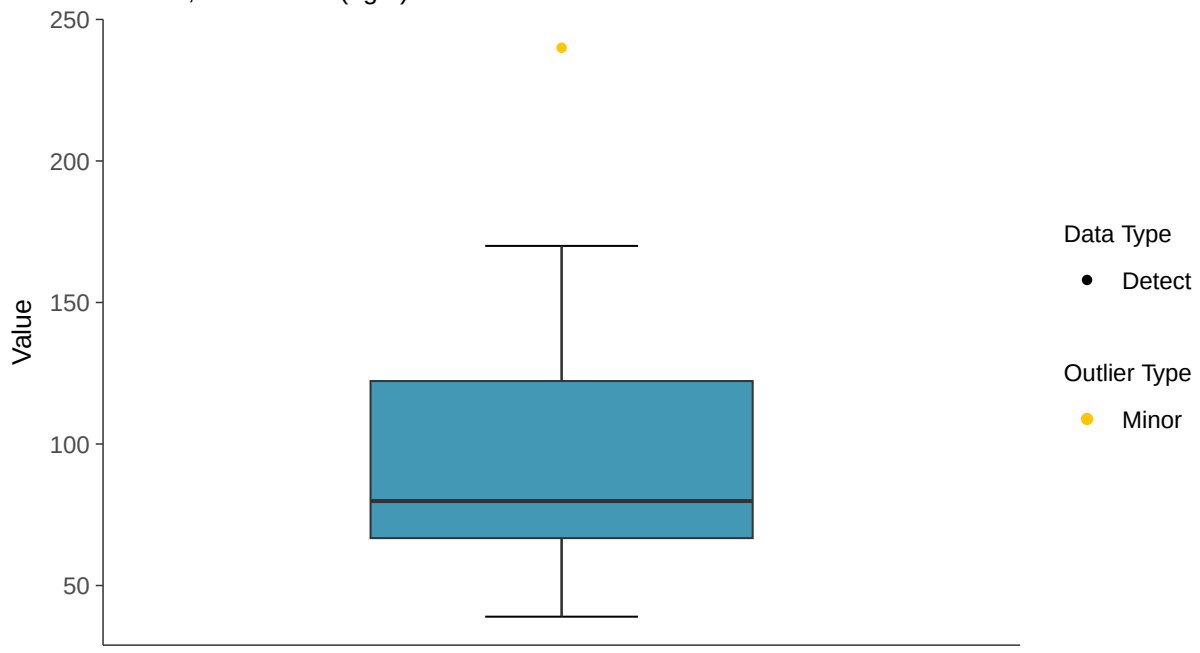
Histogram

Barium, MW-17002 (ug/L)



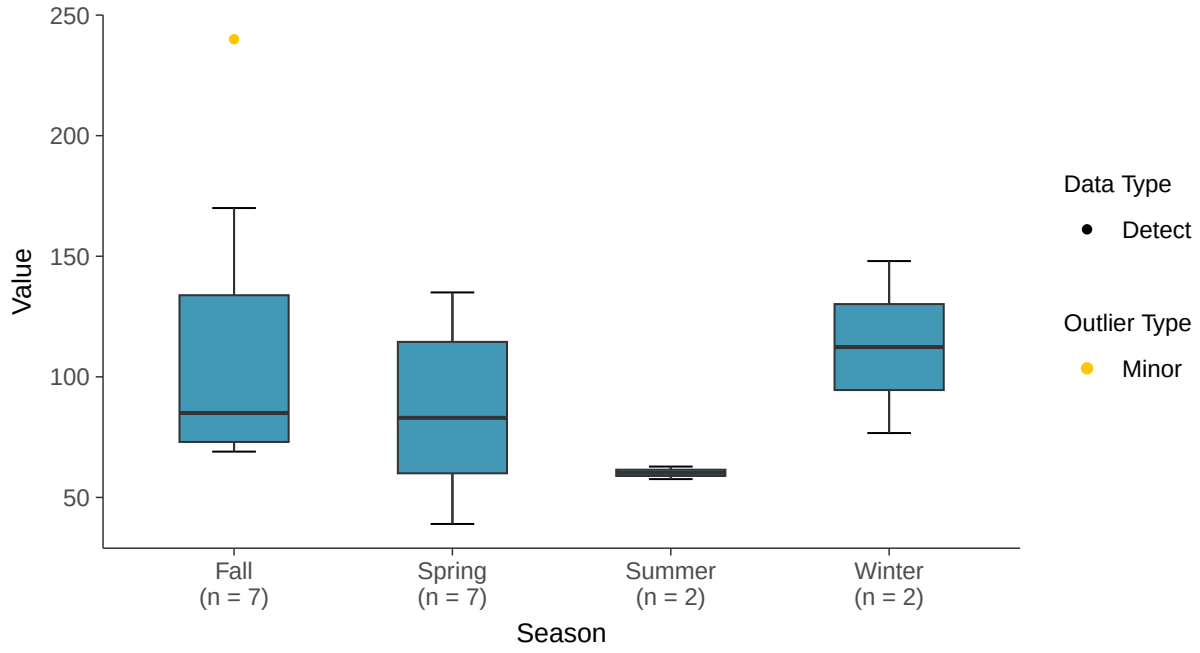
Boxplot

Barium, MW-17002 (ug/L)



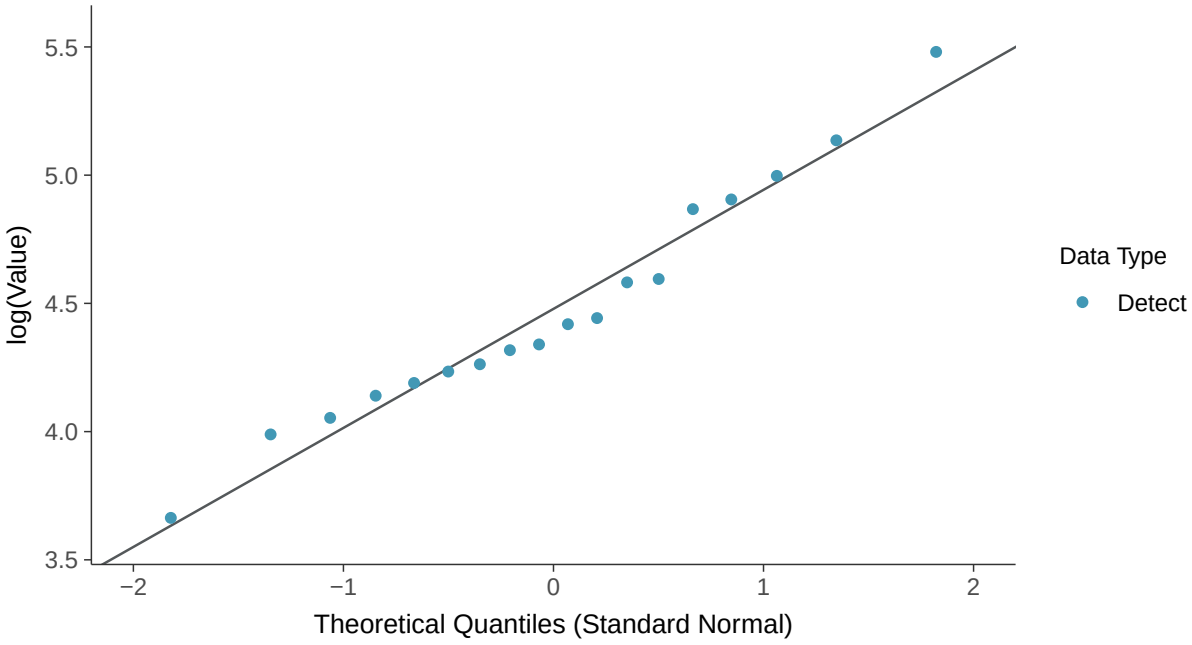
Boxplot by Season

Barium, MW-17002 (ug/L)



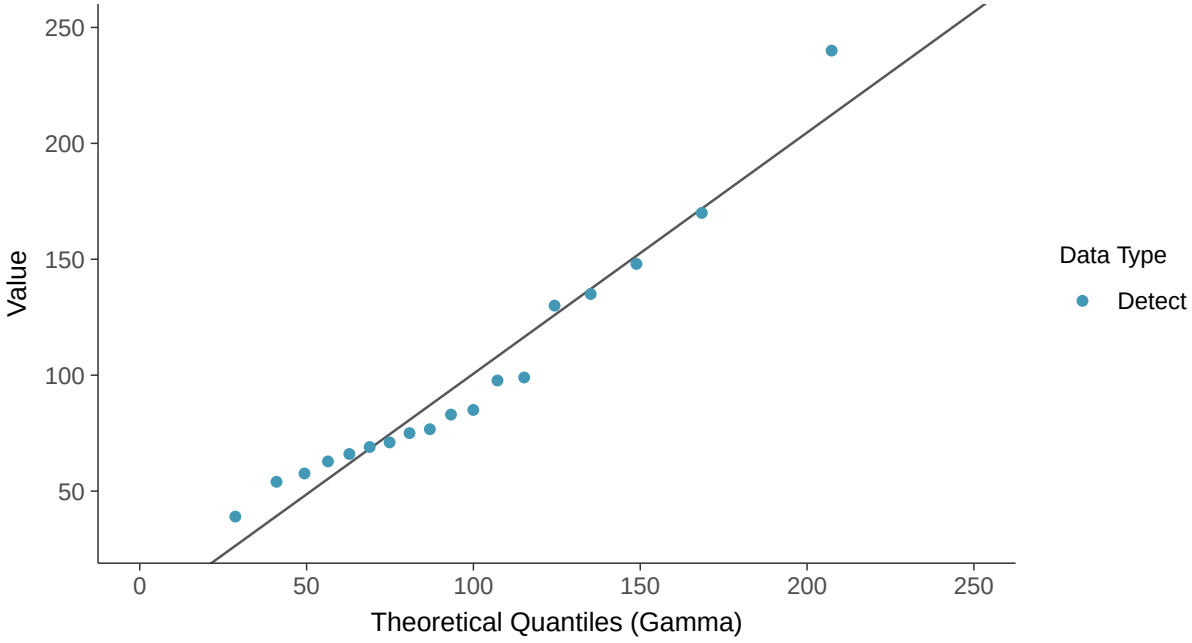
Lognormal Q-Q plot

Barium, MW-17002 (ug/L)



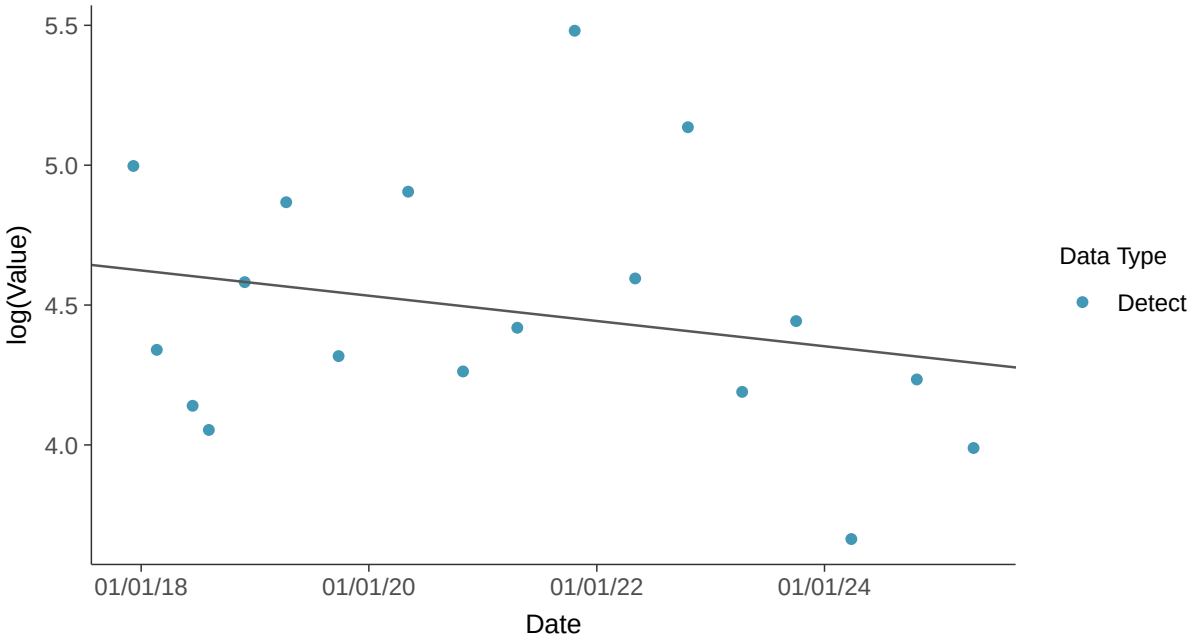
Gamma Q-Q plot

Barium, MW-17002 (ug/L)



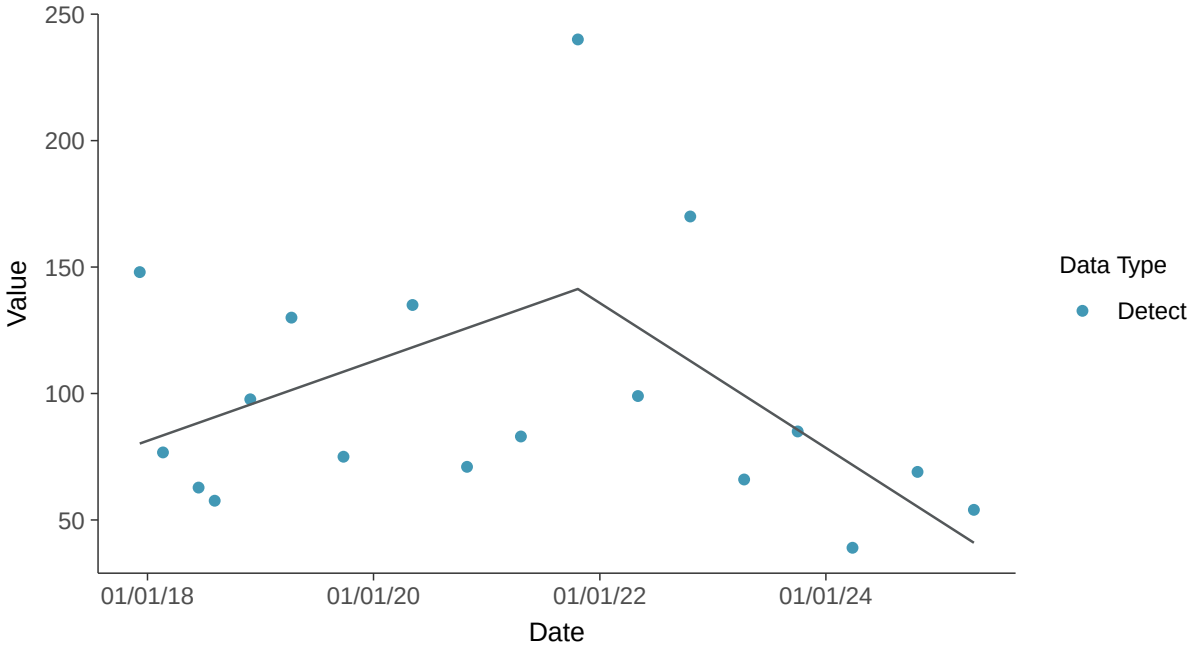
Trend Regression: Lognormal MLE

Barium, MW-17002 (ug/L)



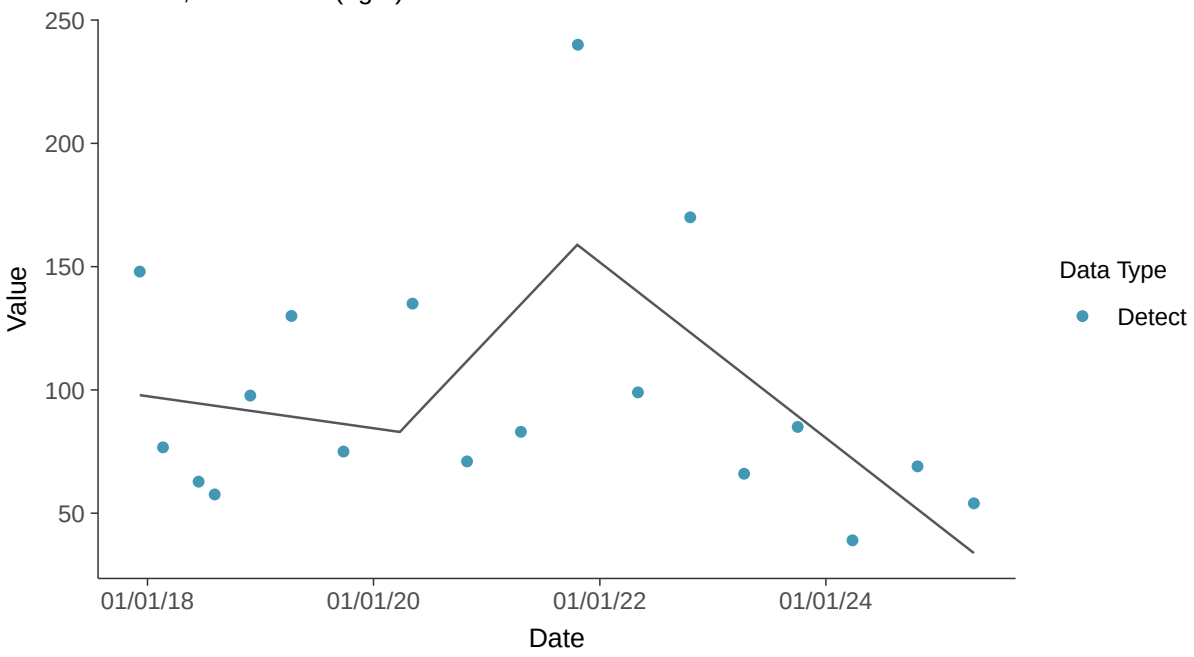
Trend Regression: Piecewise Linear-Linear

Barium, MW-17002 (ug/L)



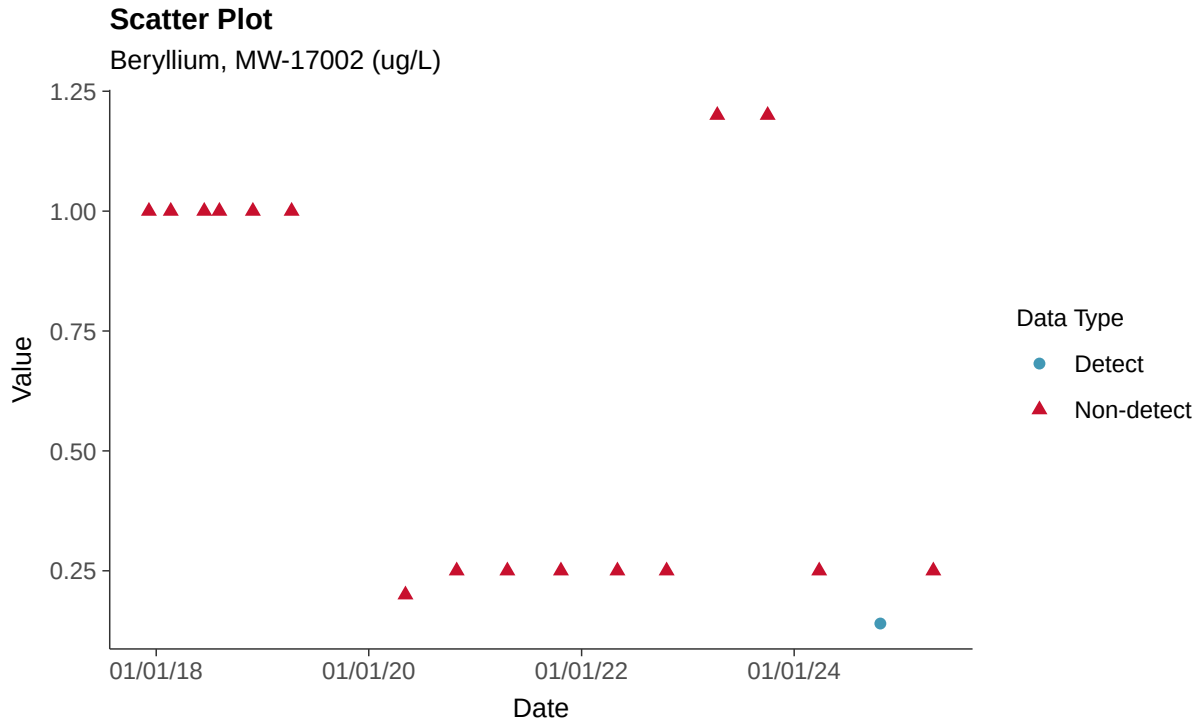
Trend Regression: Piecewise Linear-Linear-Linear

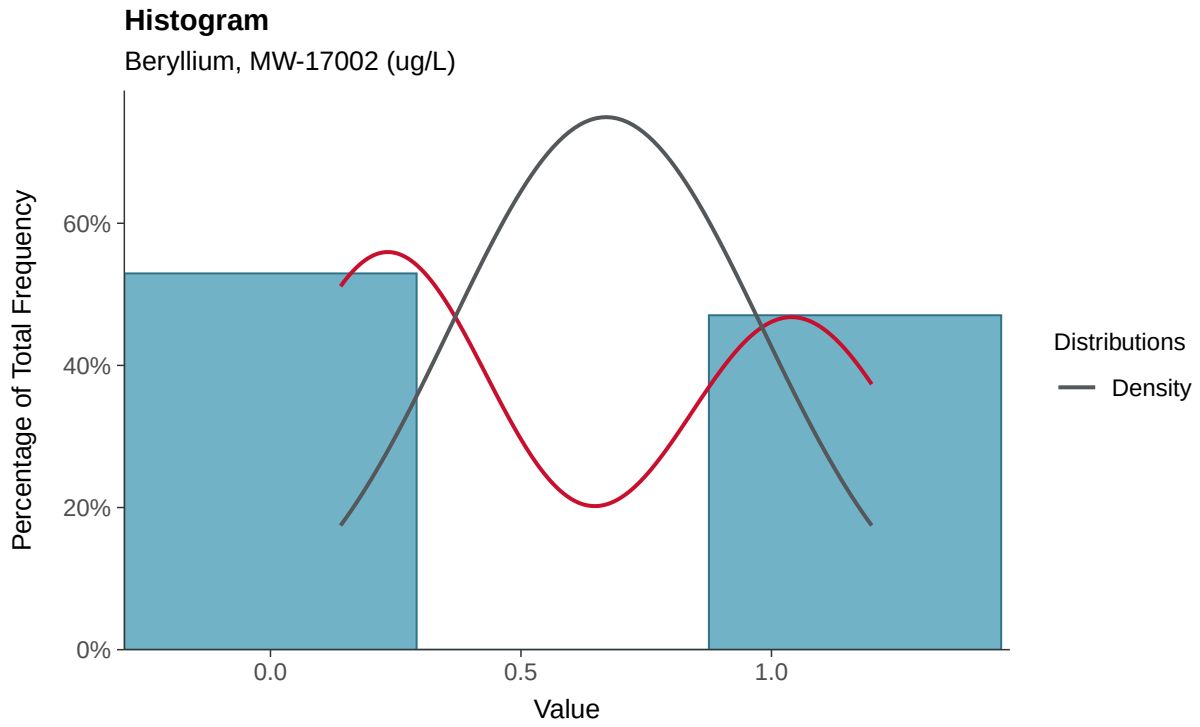
Barium, MW-17002 (ug/L)



Appendix IV: Beryllium, MW-17002

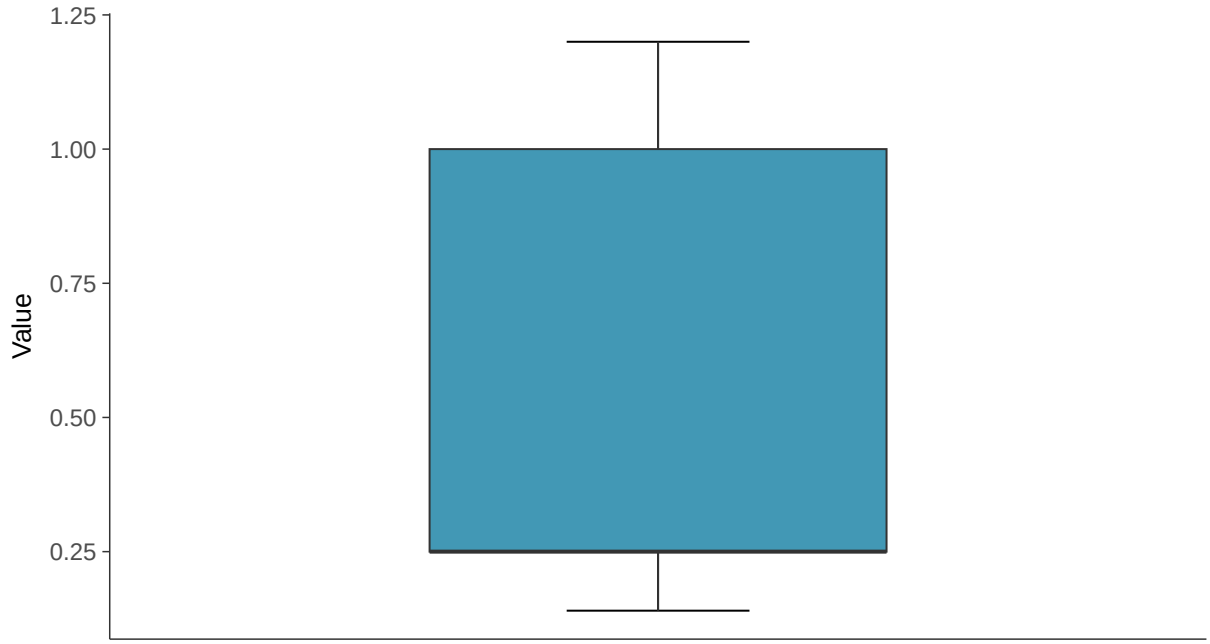
ID: 15_2_104





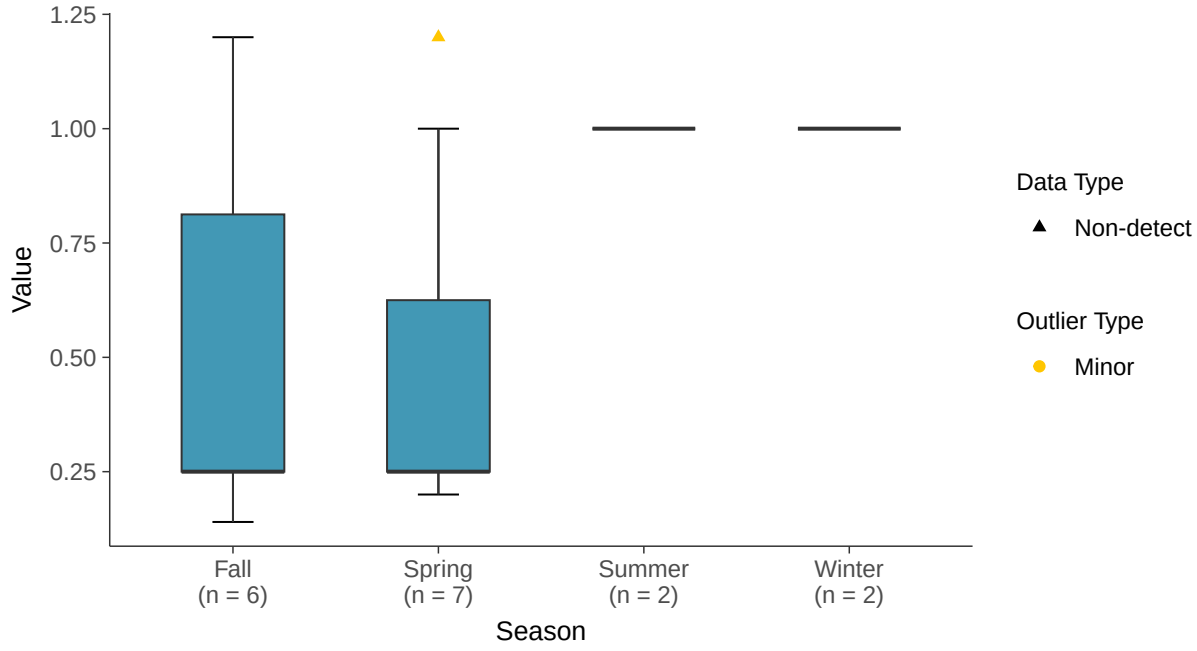
Boxplot

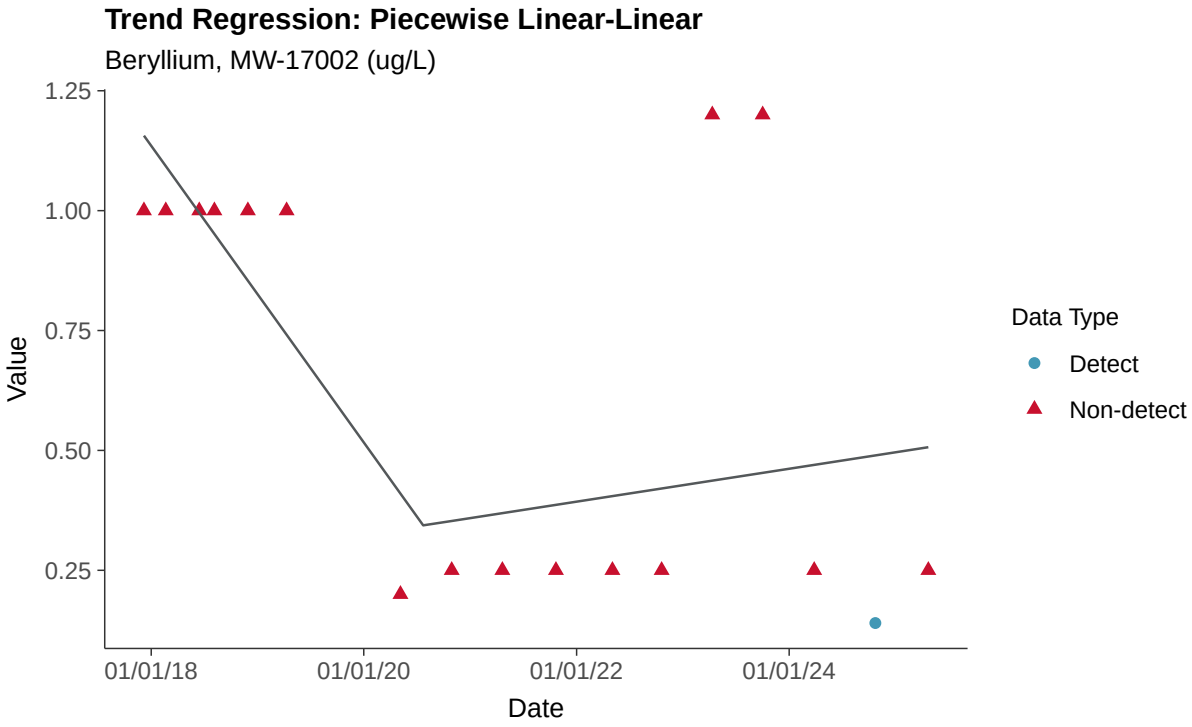
Beryllium, MW-17002 (ug/L)



Boxplot by Season

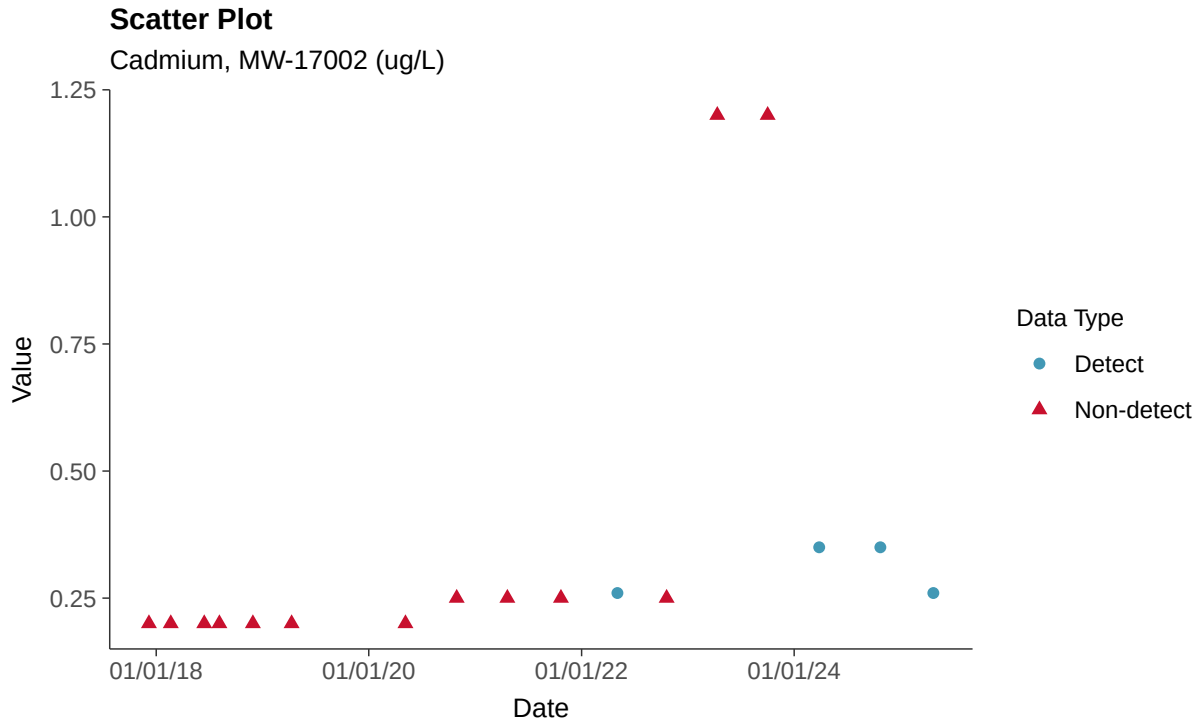
Beryllium, MW-17002 (ug/L)

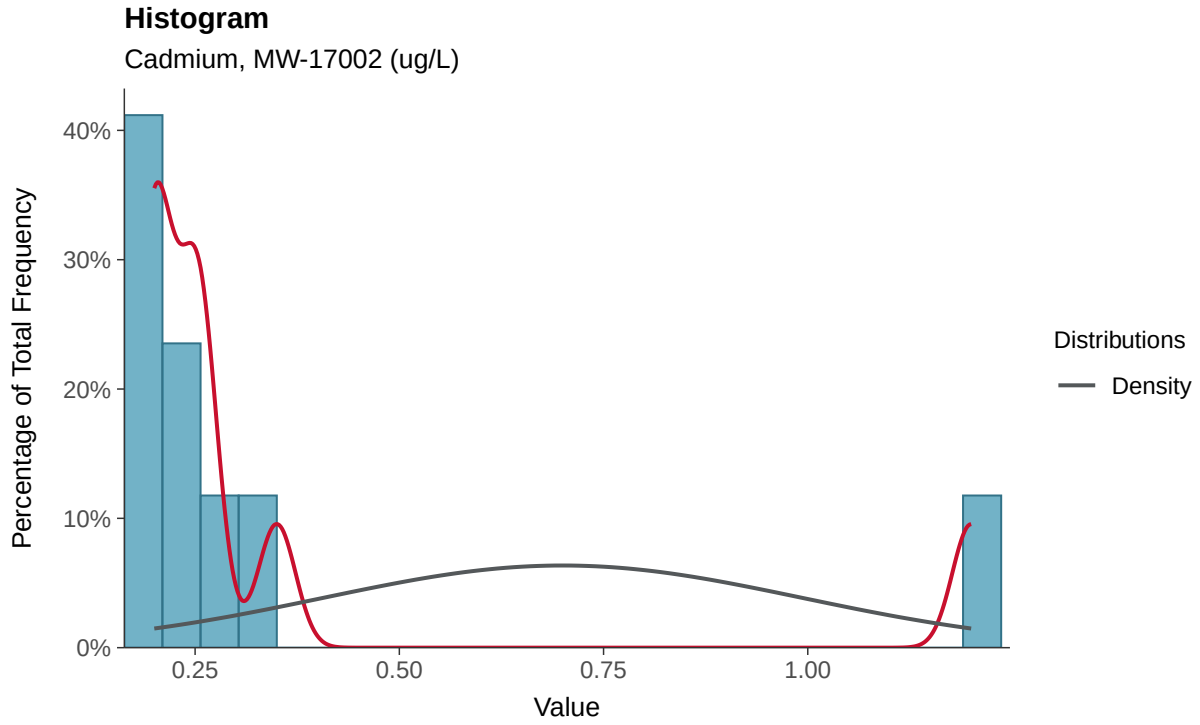



Trend Regression: Piecewise Linear-Linear
Beryllium, MW-17002 (ug/L)
1.25
1.00
0.75
0.50
0.25
Value
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Detect
Non-detect

Appendix IV: Cadmium, MW-17002

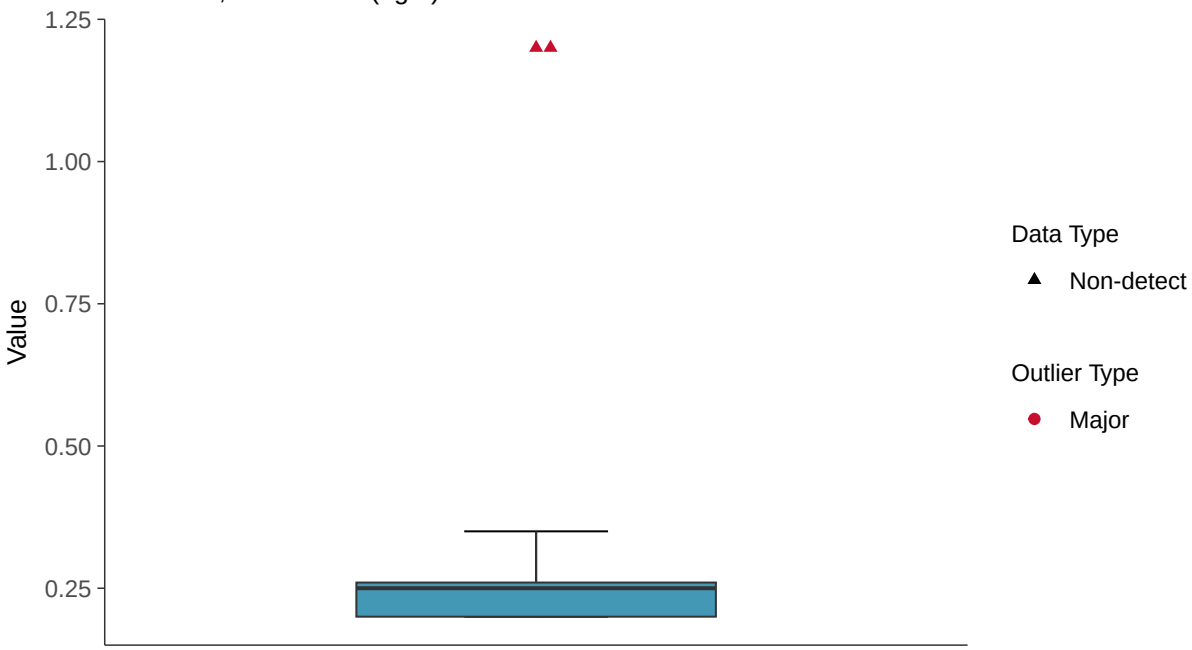
ID: 15_2_106





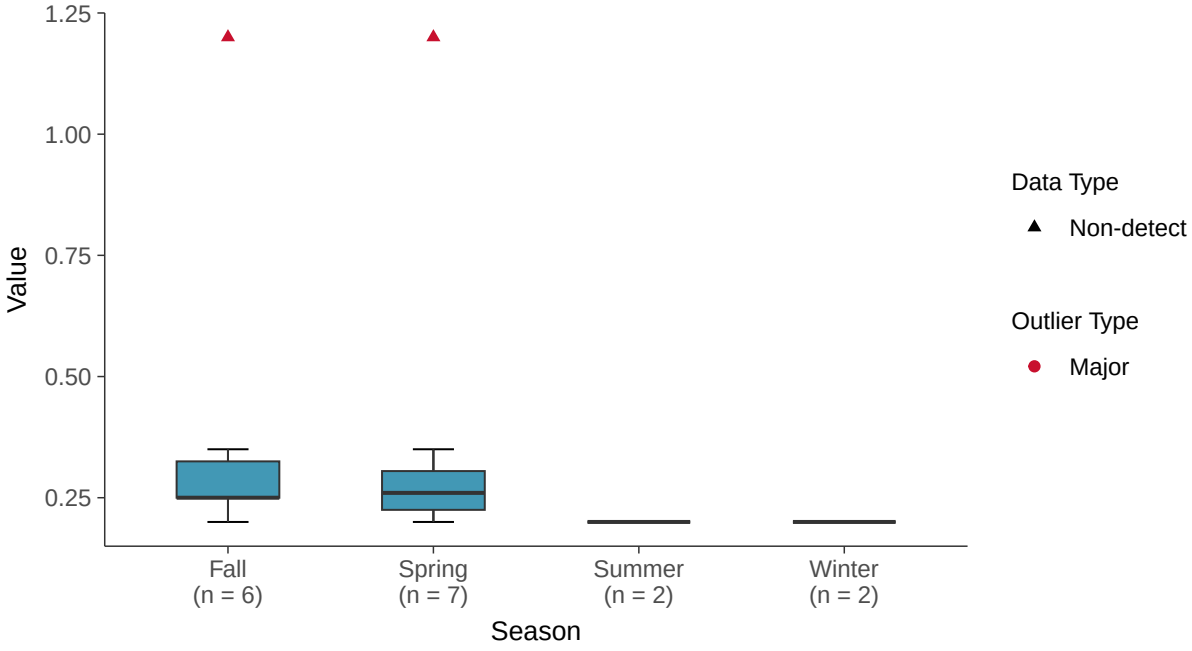
Boxplot

Cadmium, MW-17002 (ug/L)



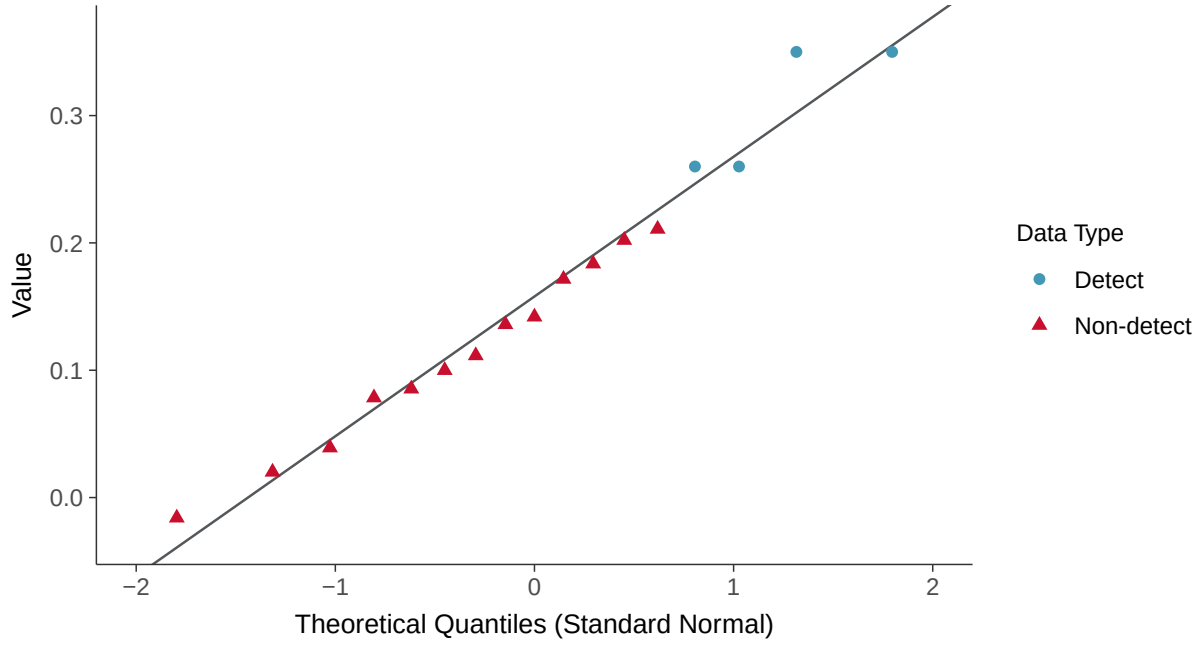
Boxplot by Season

Cadmium, MW-17002 (ug/L)



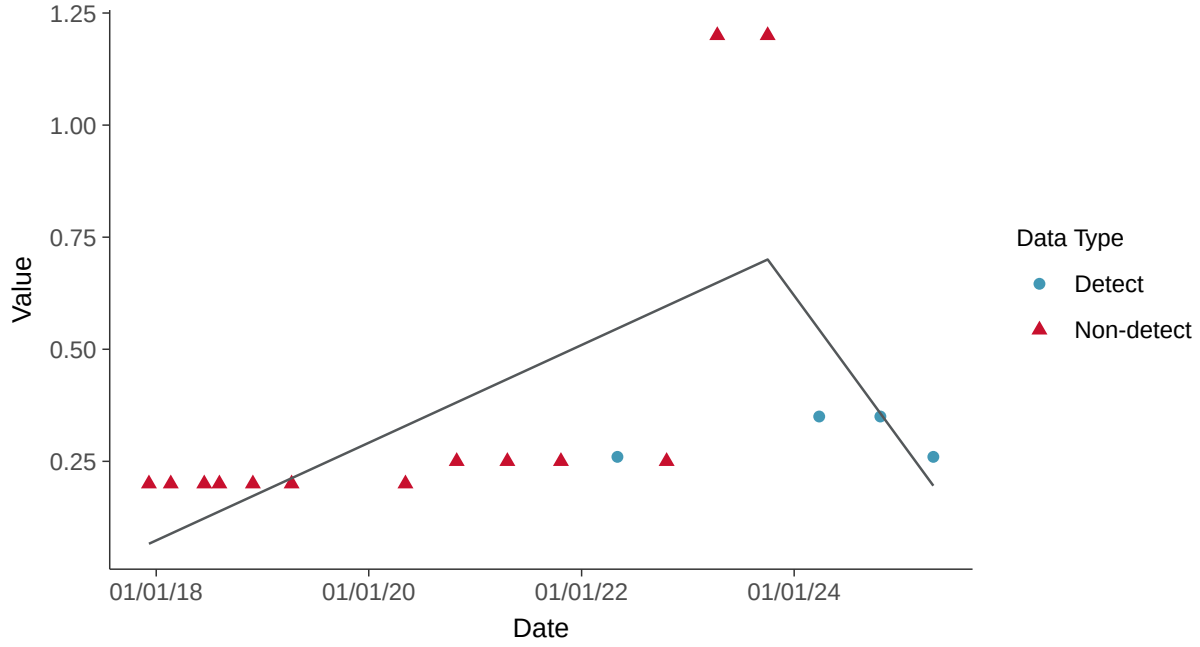
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-17002 (ug/L)



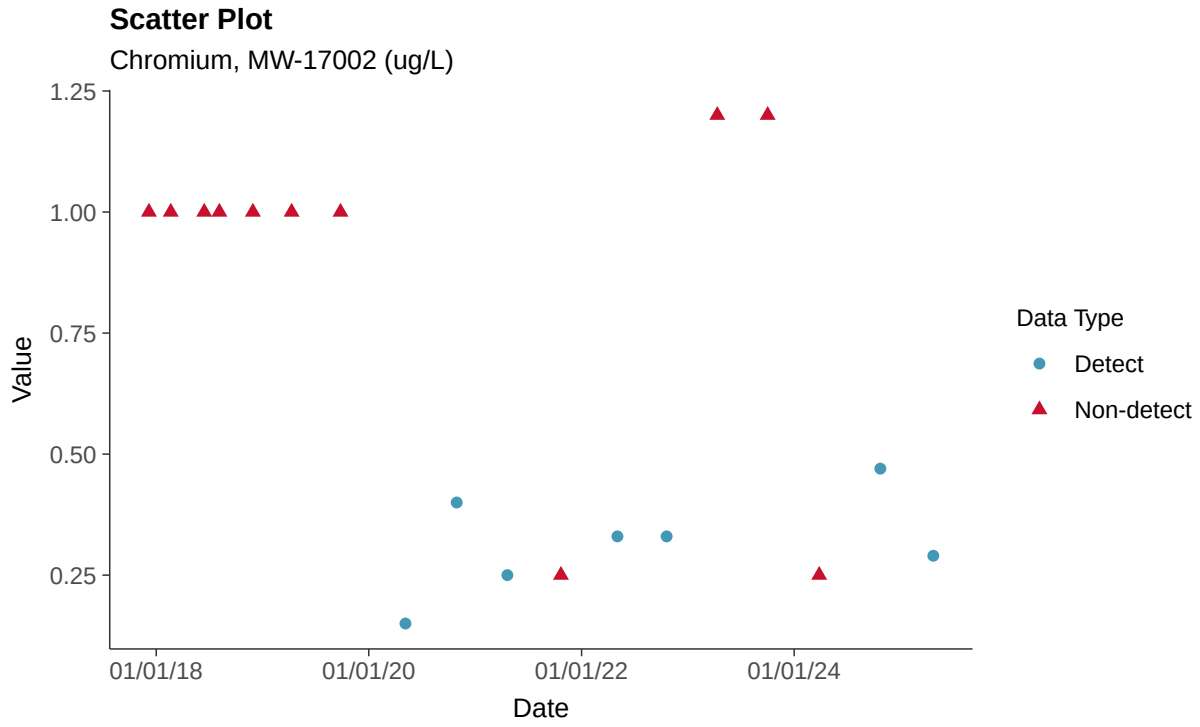
Trend Regression: Piecewise Linear-Linear

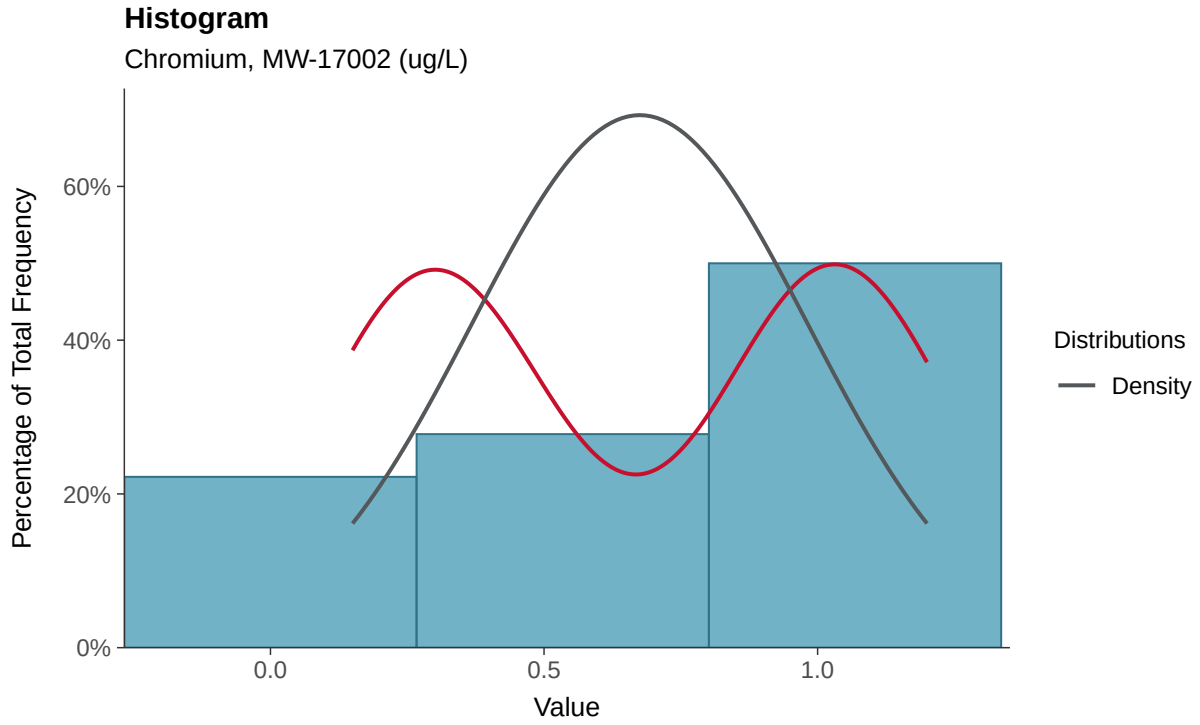
Cadmium, MW-17002 (ug/L)



Appendix IV: Chromium, MW-17002

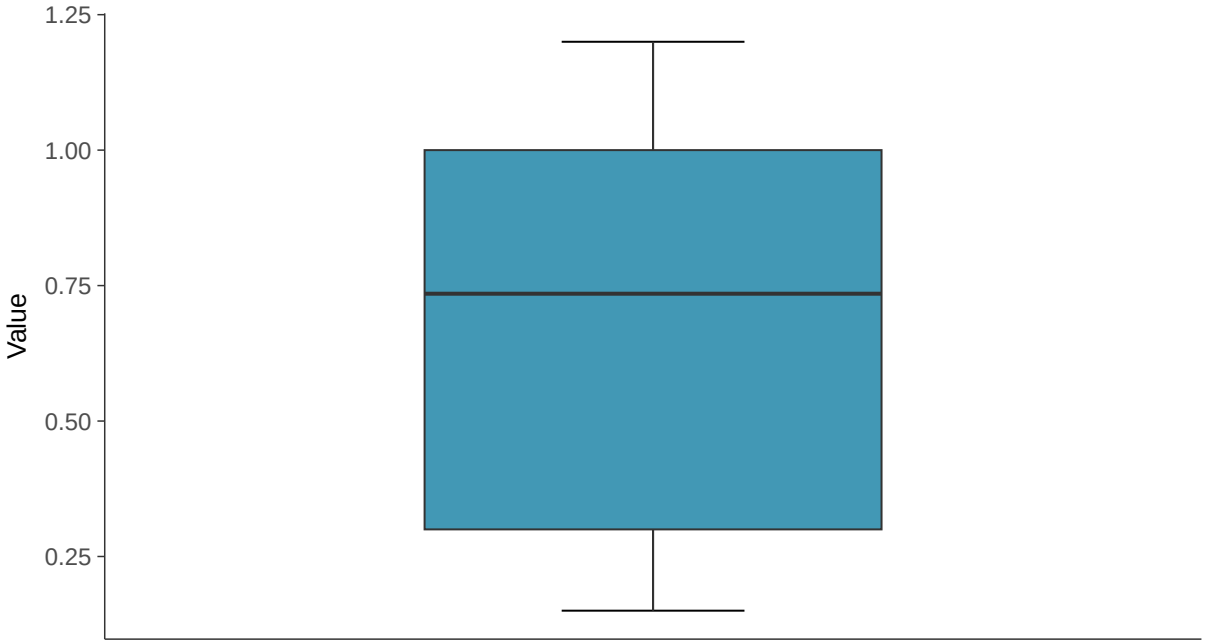
ID: 15_2_109





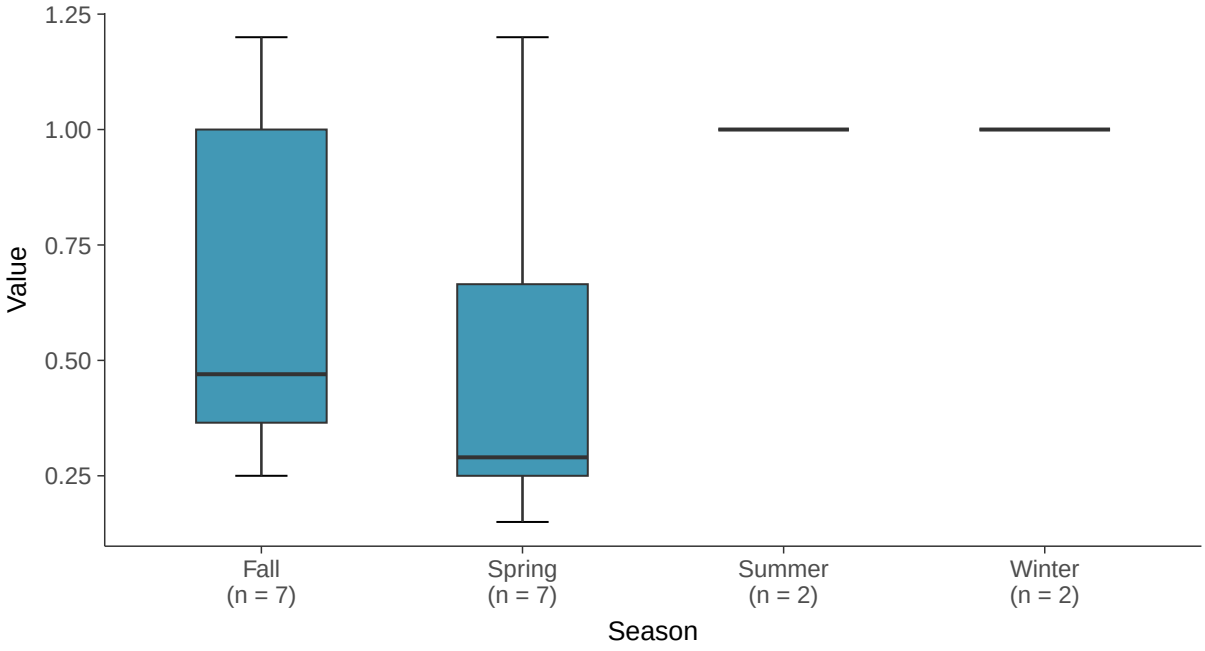
Boxplot

Chromium, MW-17002 (ug/L)



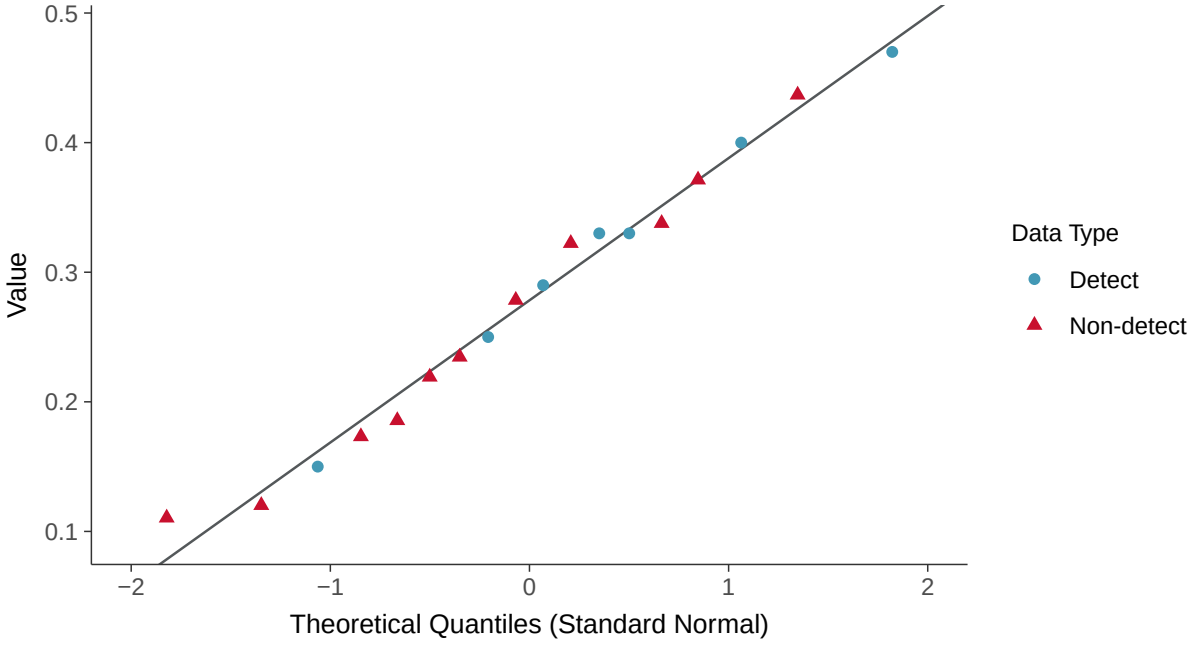
Boxplot by Season

Chromium, MW-17002 (ug/L)



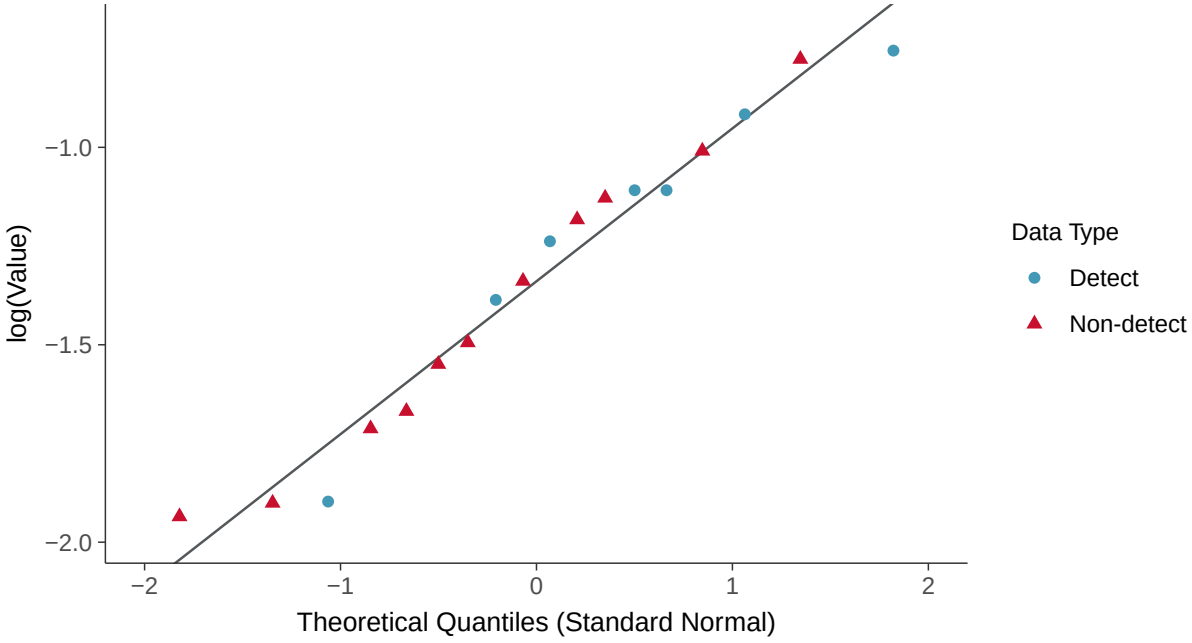
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-17002 (ug/L)



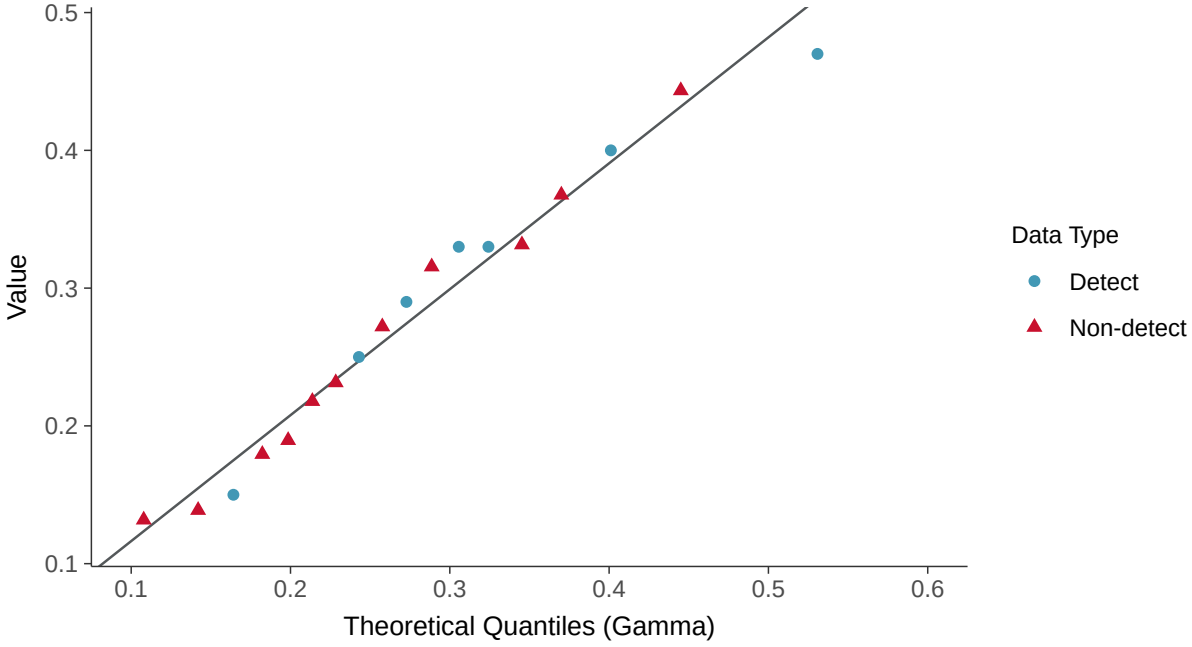
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-17002 (ug/L)



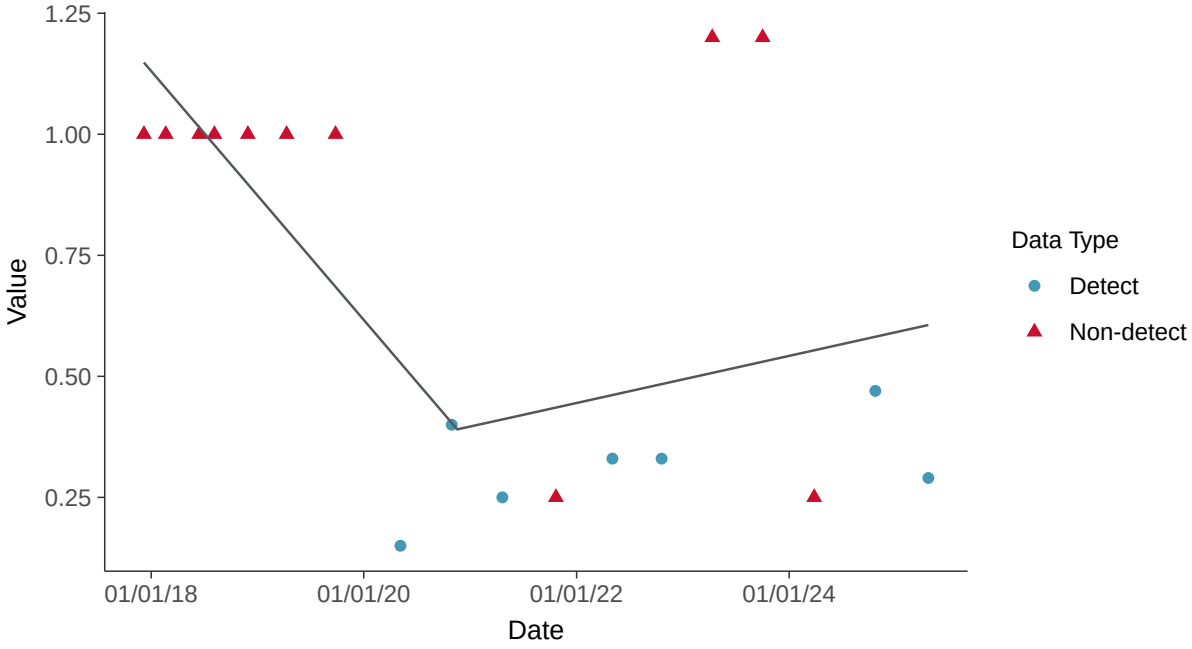
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, MW-17002 (ug/L)



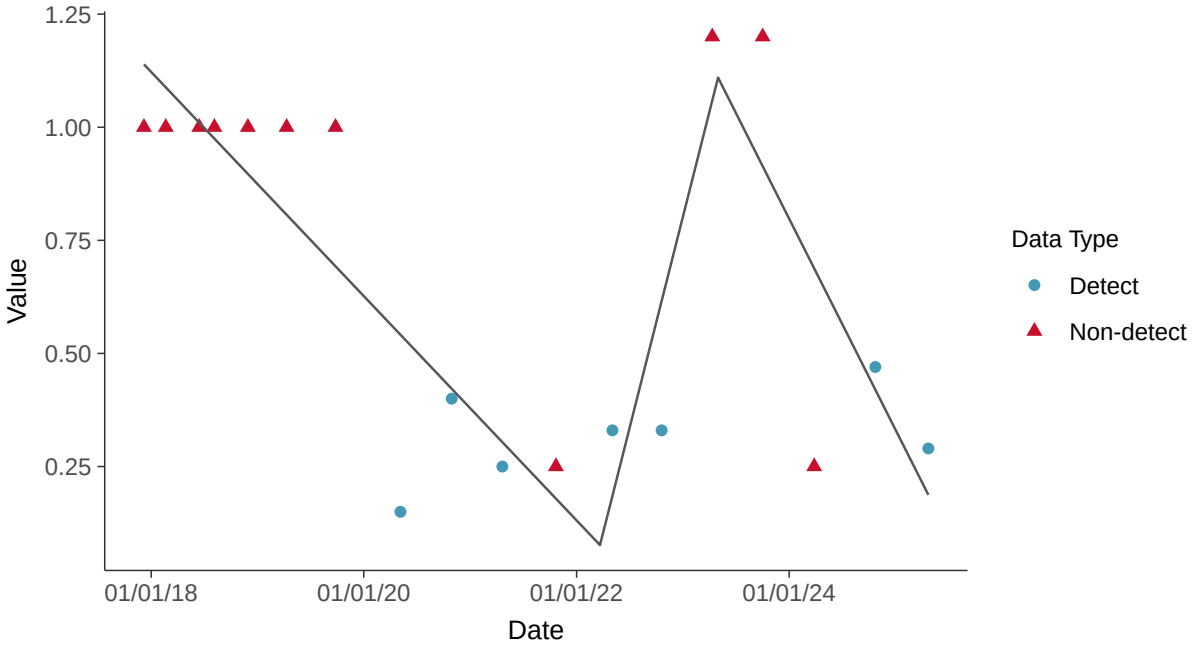
Trend Regression: Piecewise Linear-Linear

Chromium, MW-17002 (ug/L)



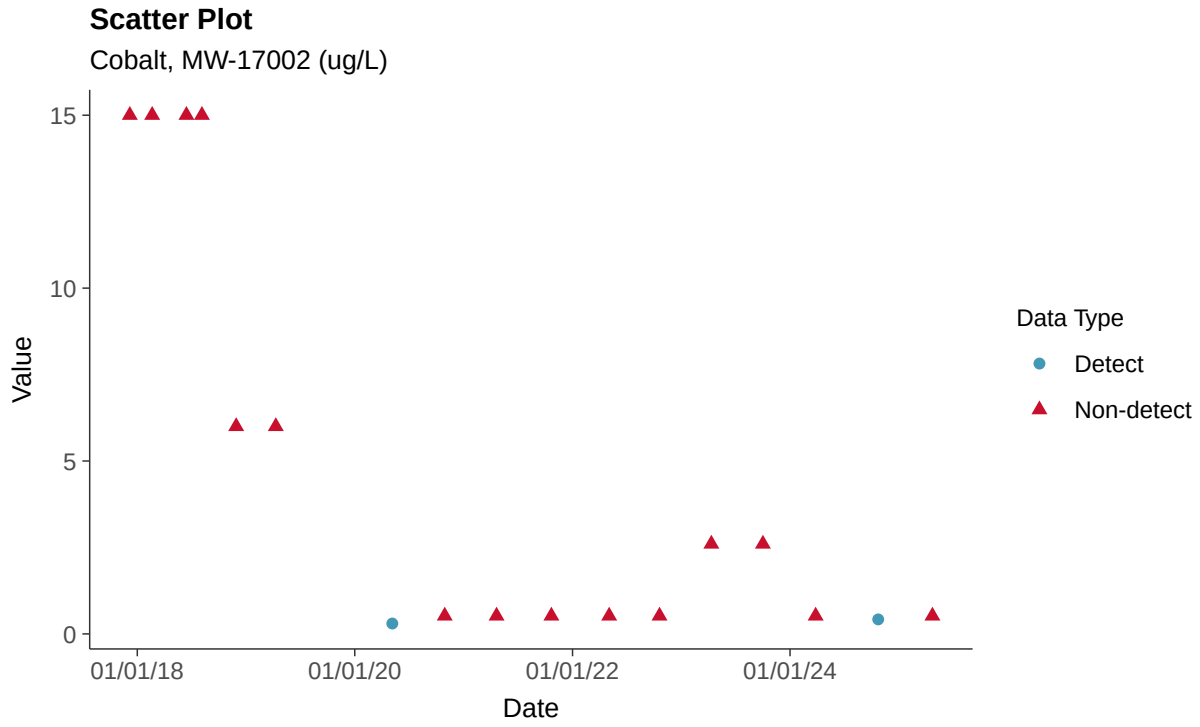
Trend Regression: Piecewise Linear-Linear-Linear

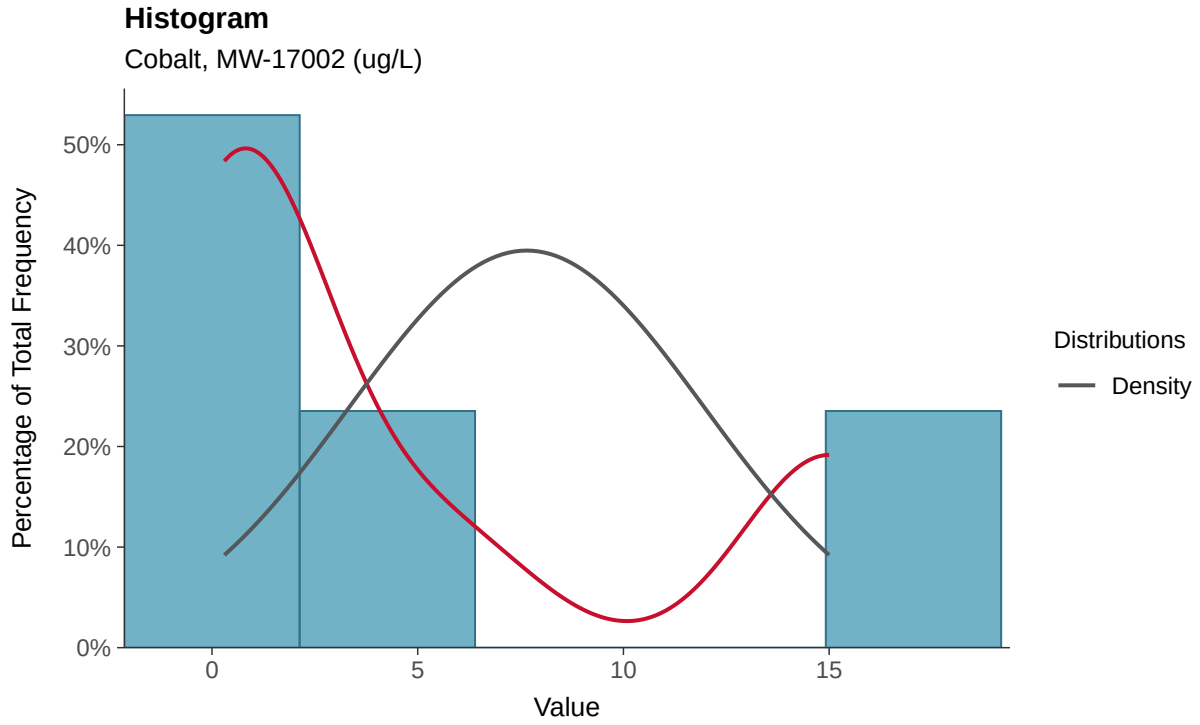
Chromium, MW-17002 (ug/L)



Appendix IV: Cobalt, MW-17002

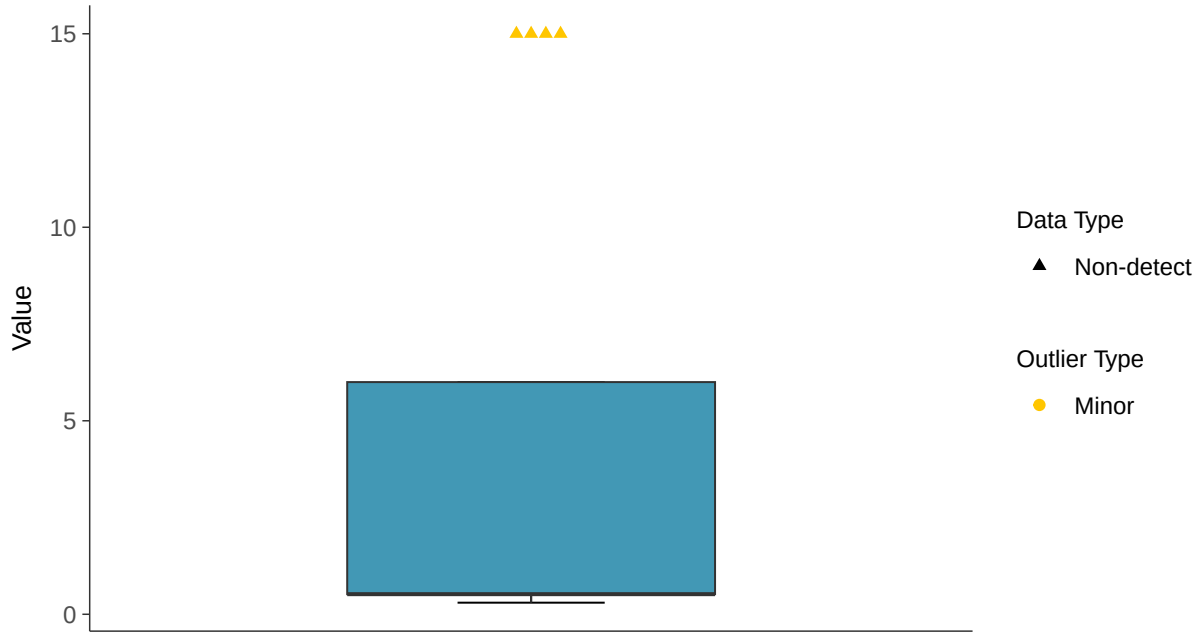
ID: 15_2_110





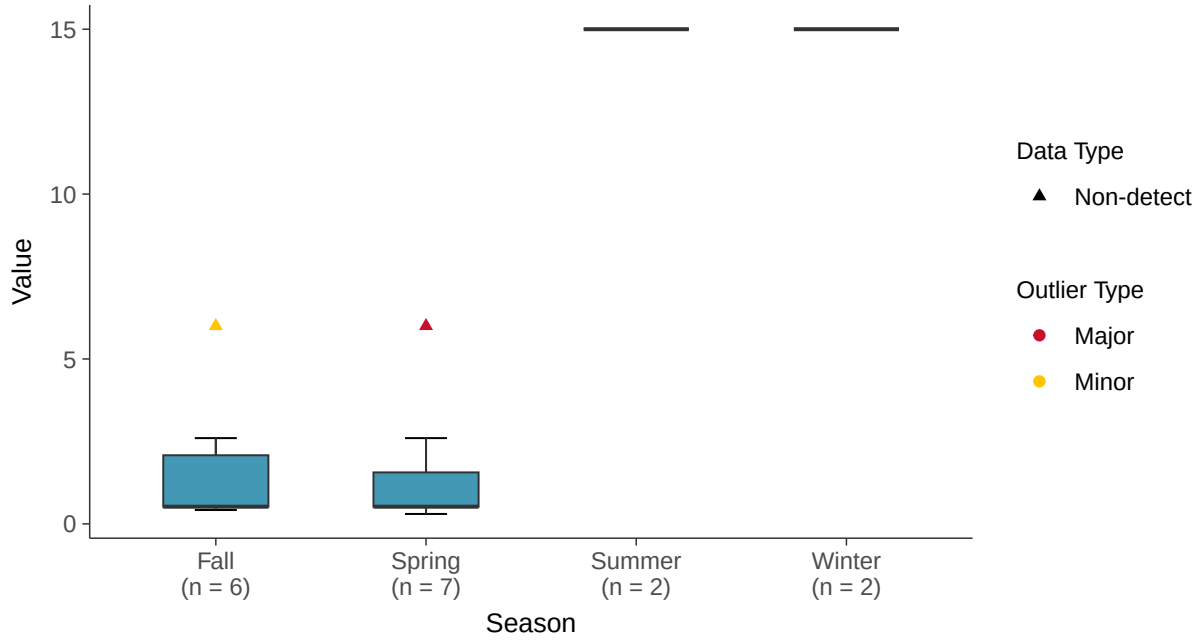
Boxplot

Cobalt, MW-17002 (ug/L)



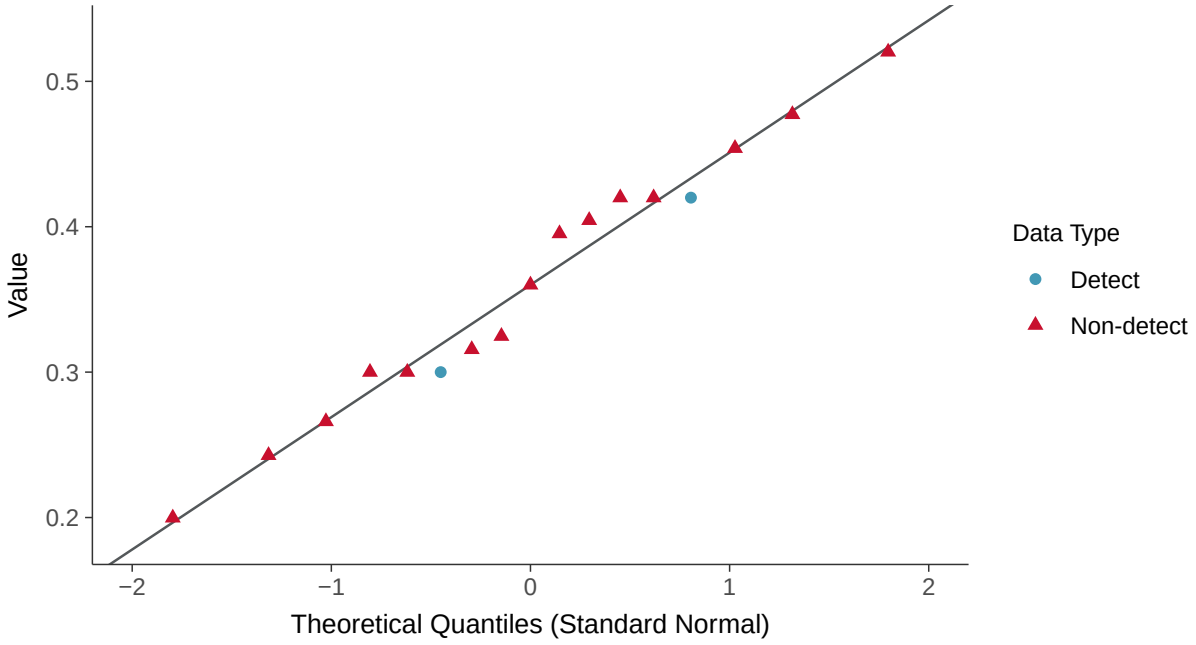
Boxplot by Season

Cobalt, MW-17002 (ug/L)



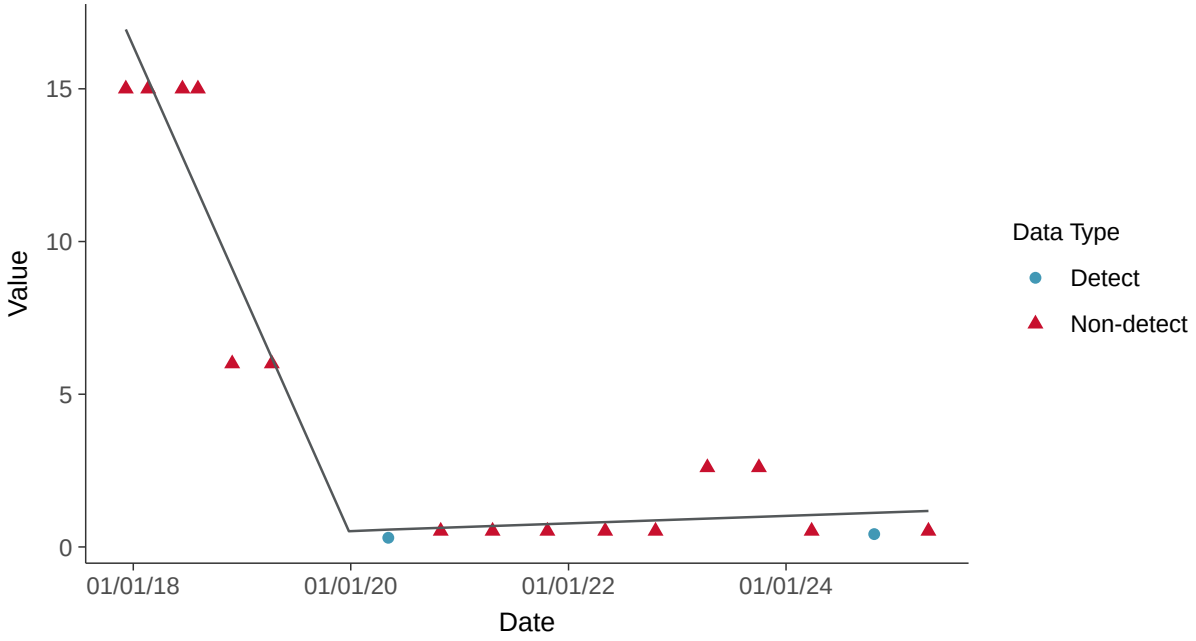
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-17002 (ug/L)



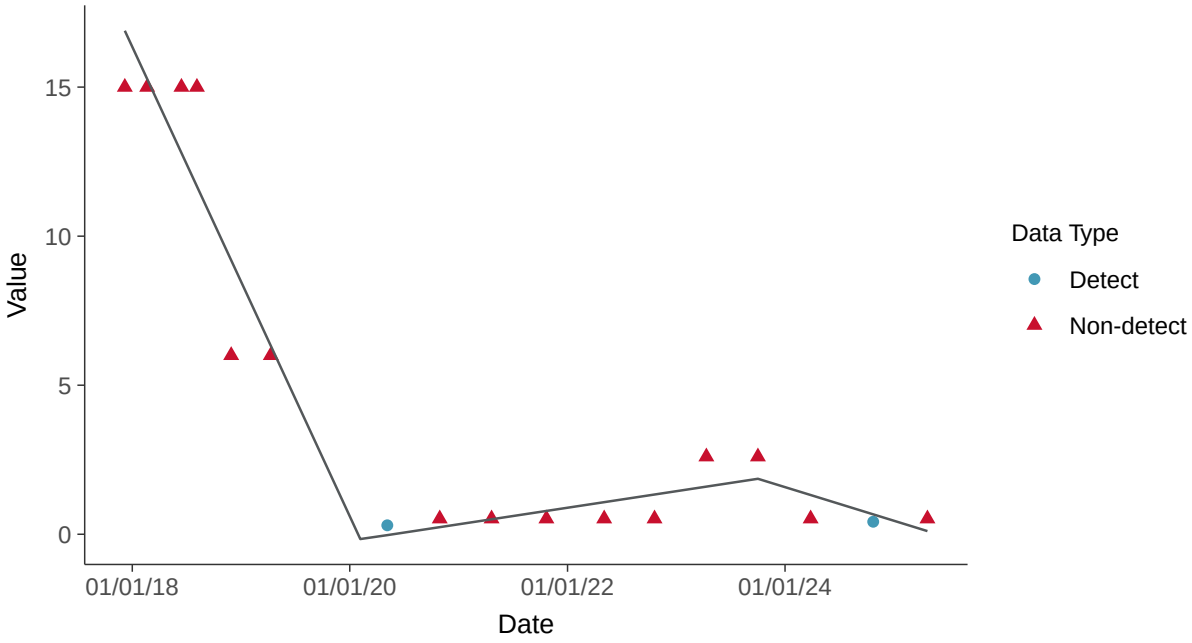
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-17002 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-17002 (ug/L)

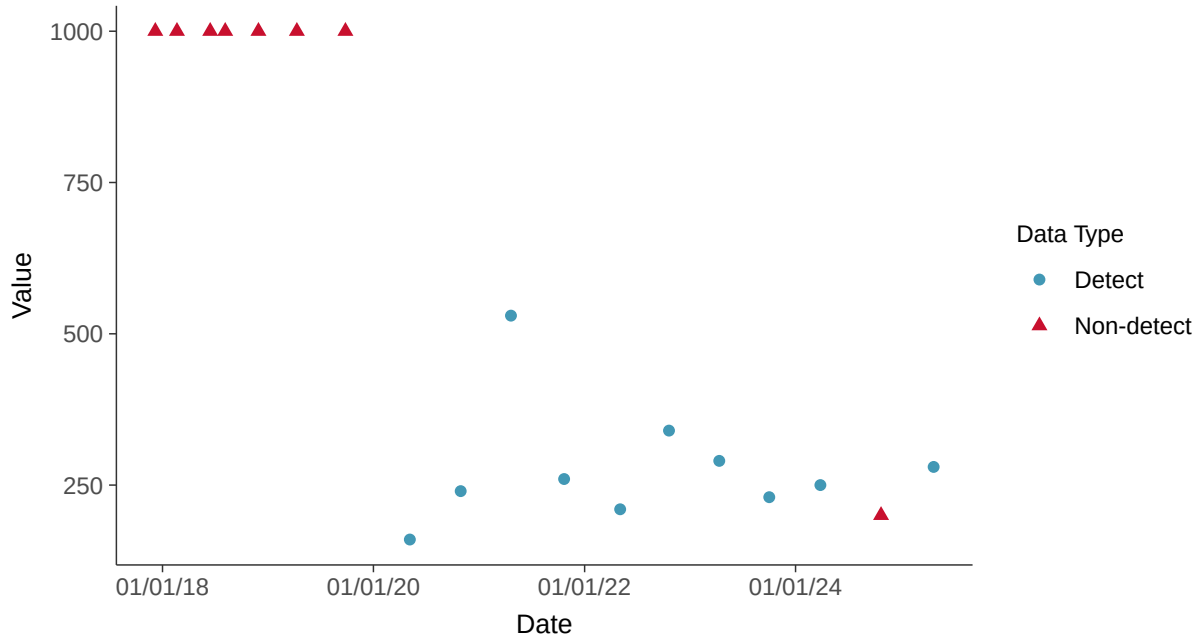


Appendix IV: Fluoride, MW-17002

ID: 15_2_114

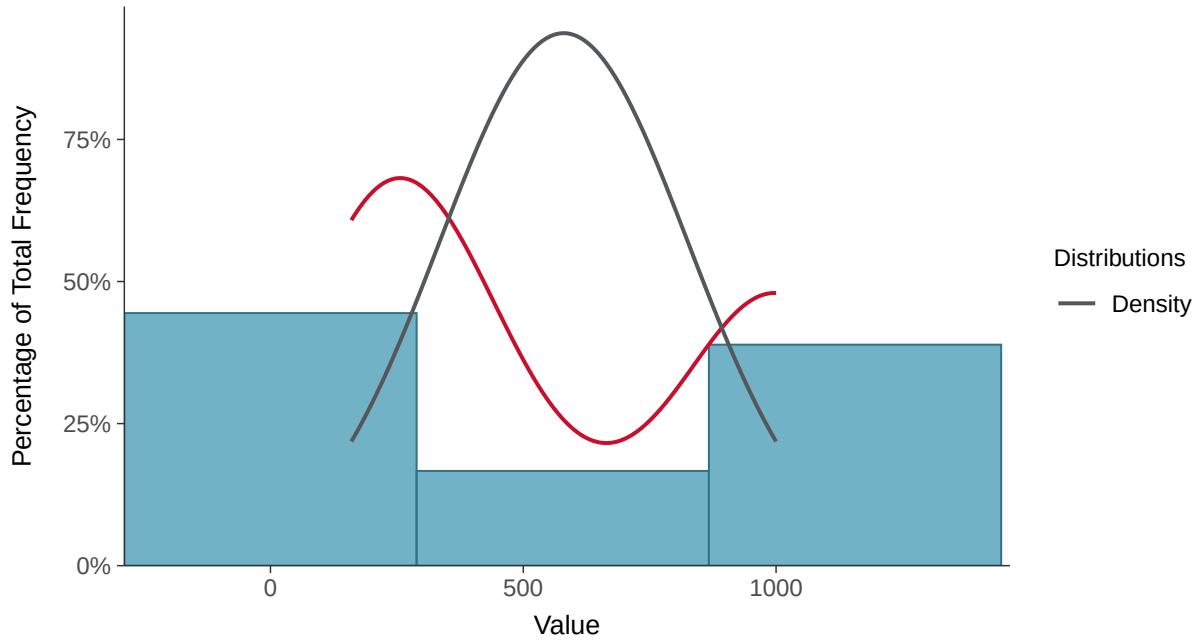
Scatter Plot

Fluoride, MW-17002 (ug/L)



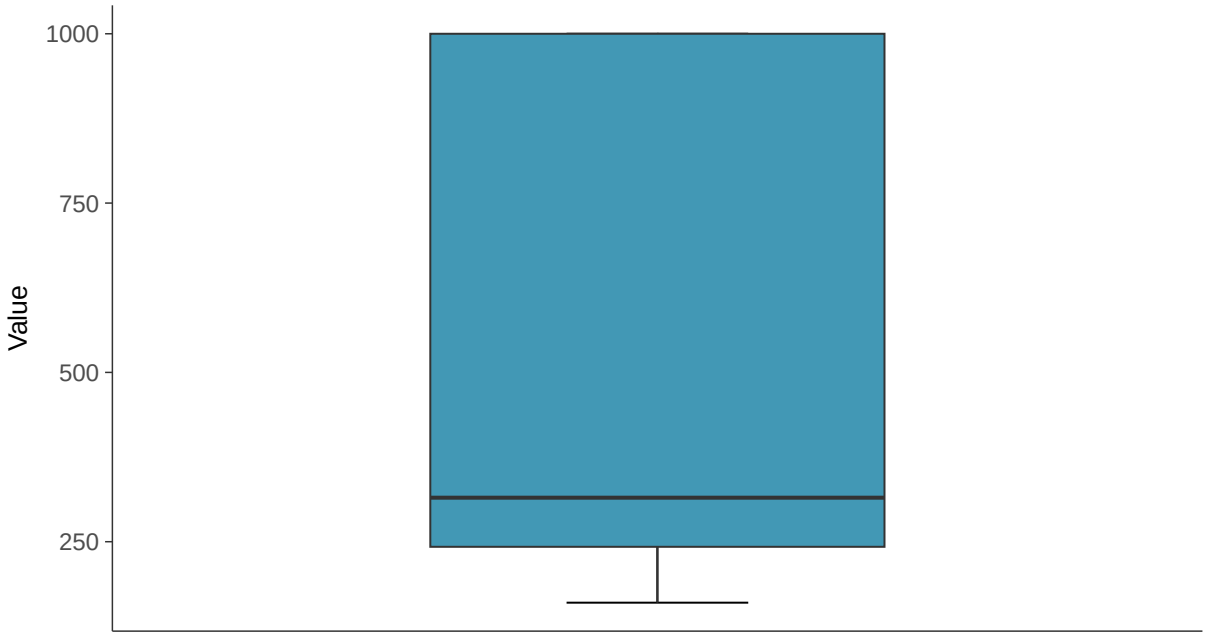
Histogram

Fluoride, MW-17002 (ug/L)



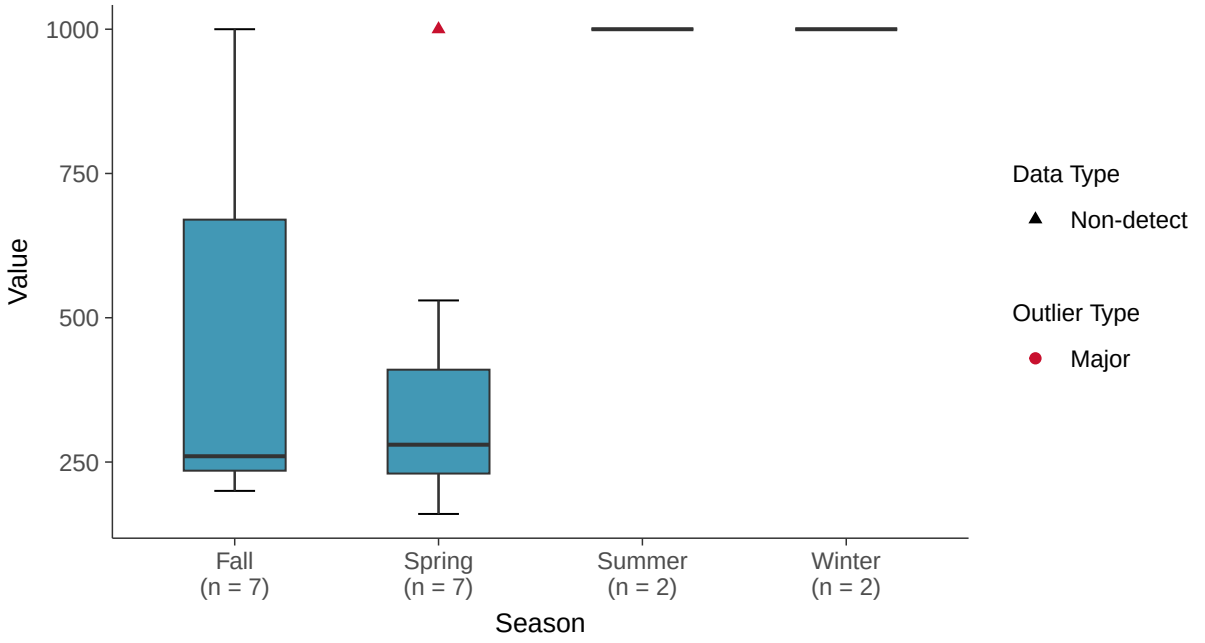
Boxplot

Fluoride, MW-17002 (ug/L)



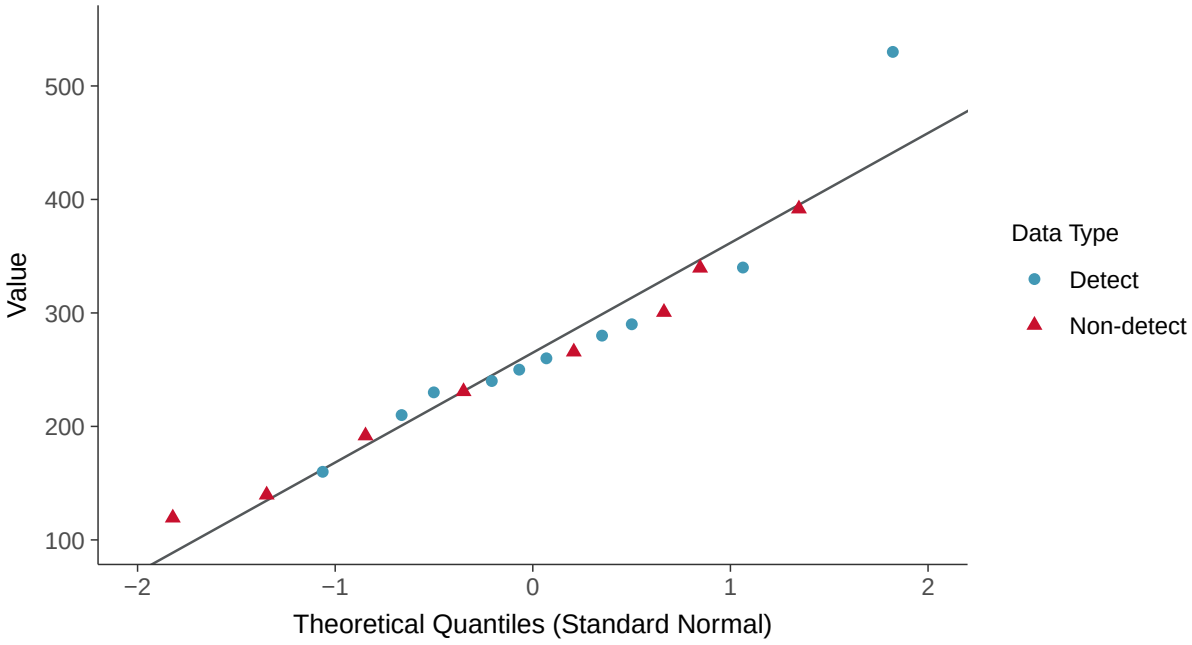
Boxplot by Season

Fluoride, MW-17002 (ug/L)



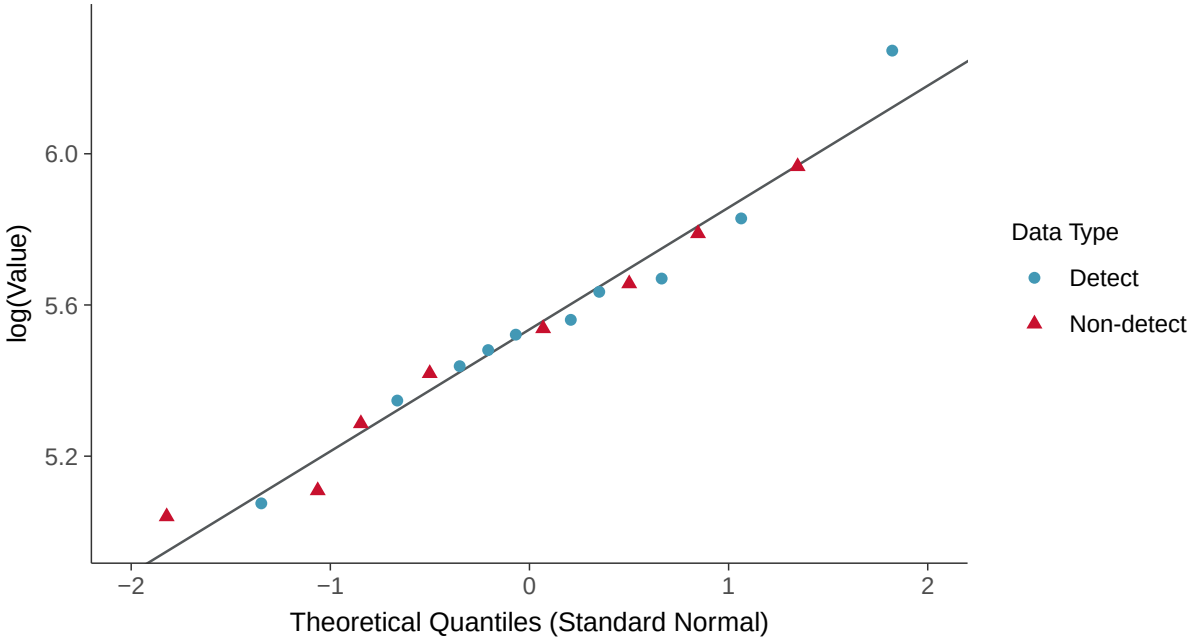
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17002 (ug/L)



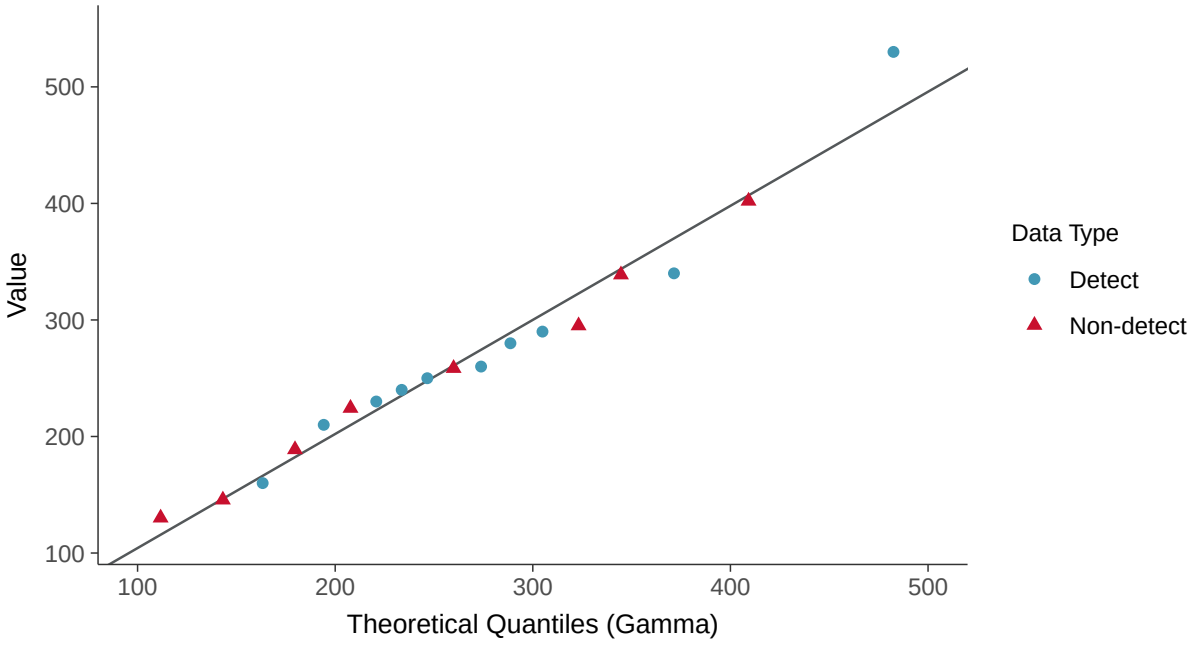
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17002 (ug/L)



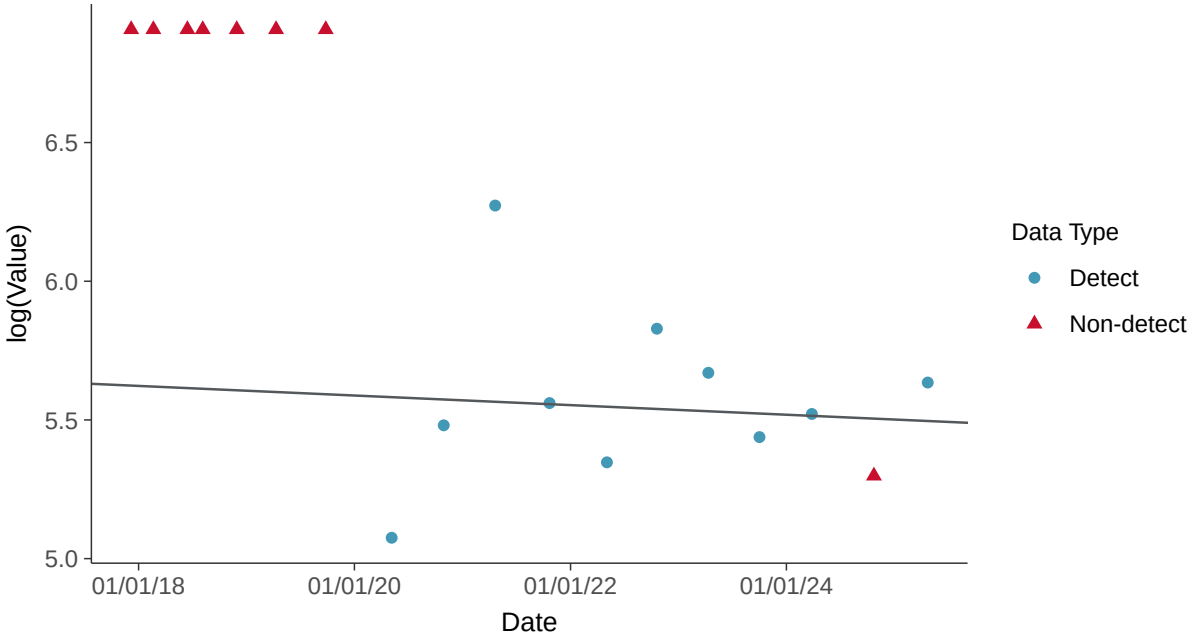
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17002 (ug/L)



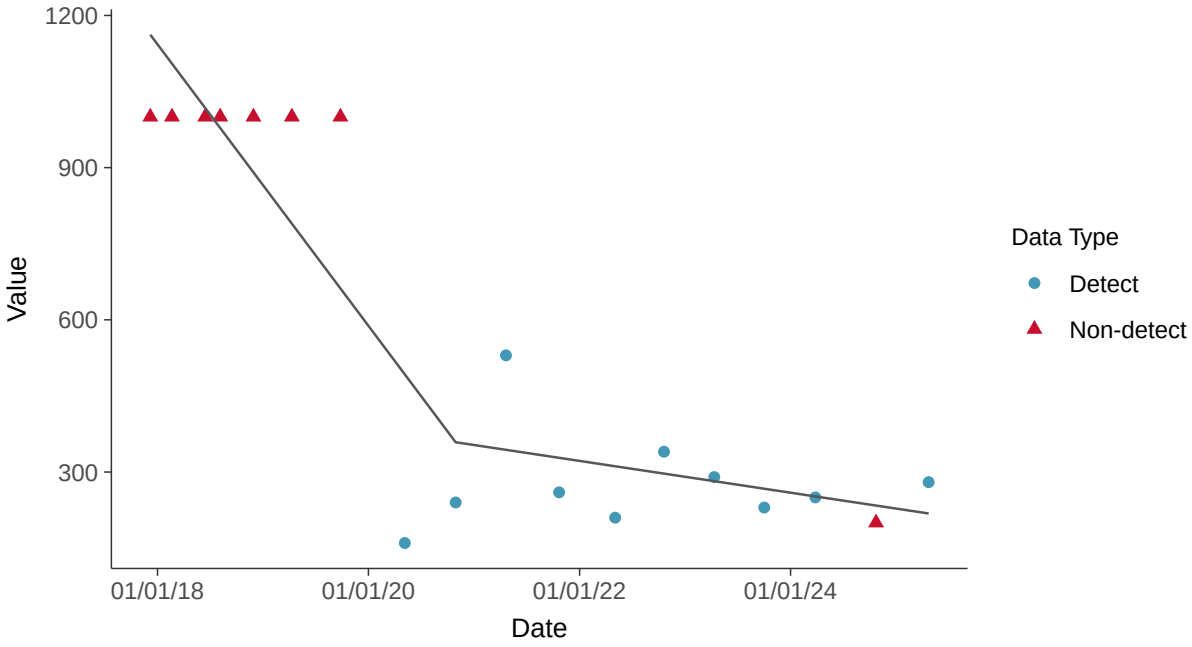
Trend Regression: Lognormal MLE

Fluoride, MW-17002 (ug/L)



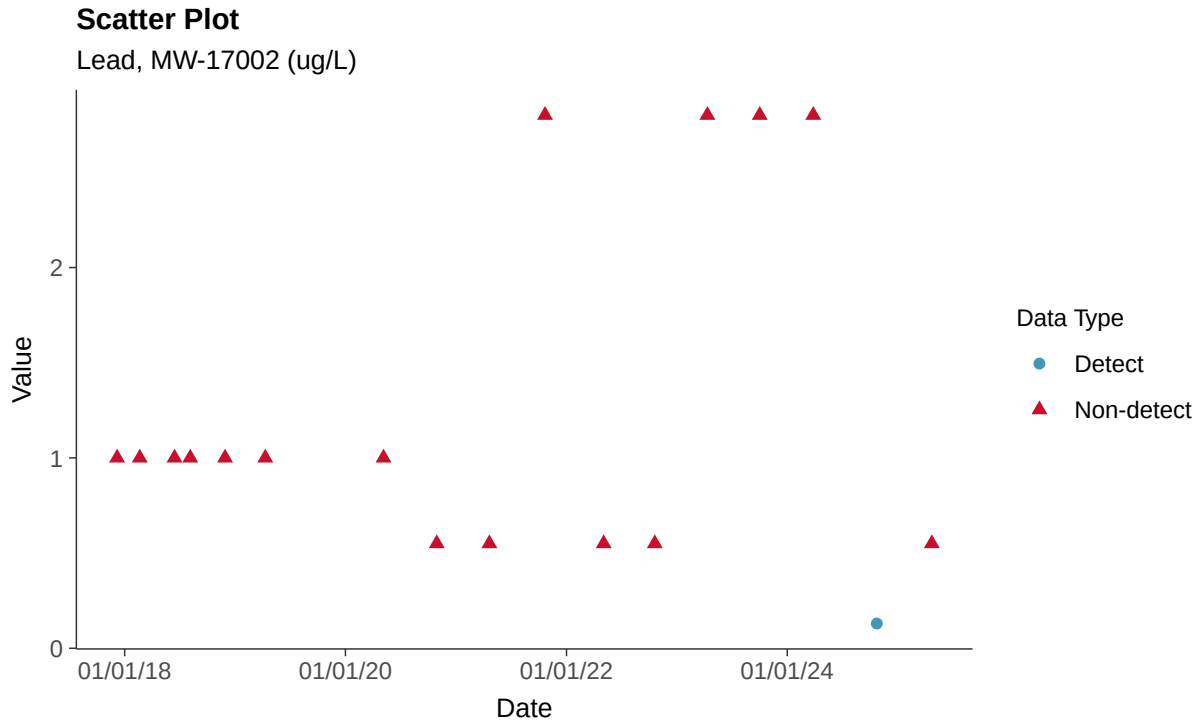
Trend Regression: Piecewise Linear-Linear

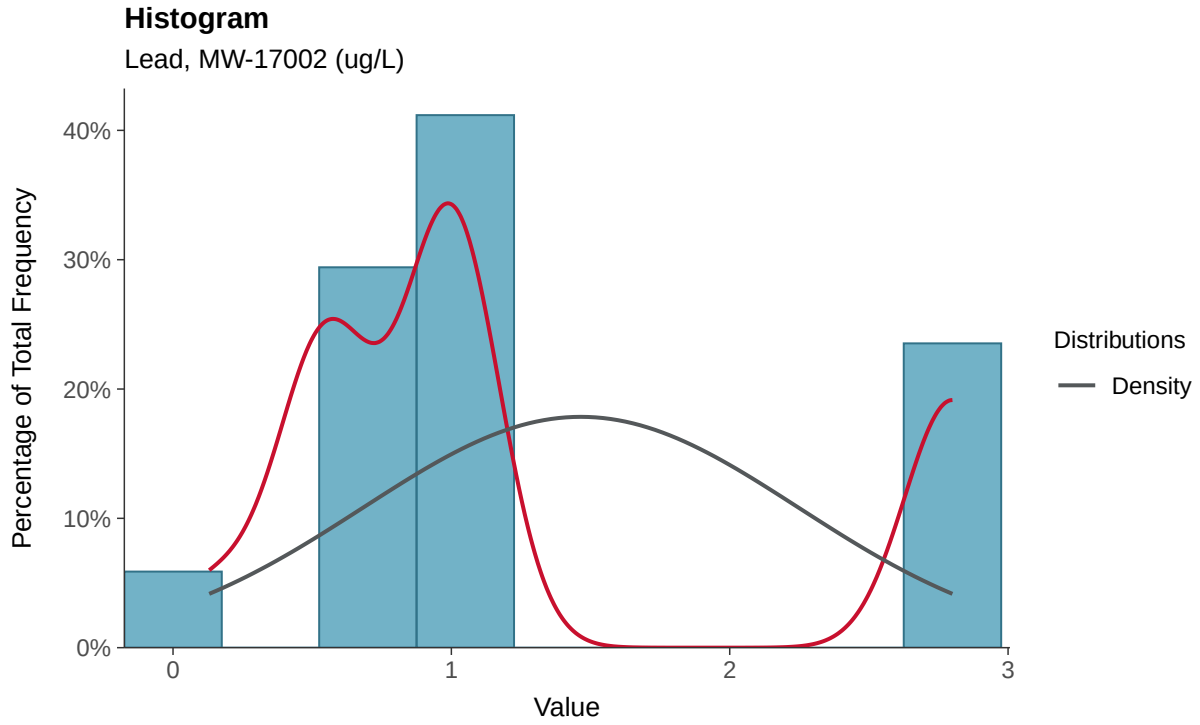
Fluoride, MW-17002 (ug/L)



Appendix IV: Lead, MW-17002

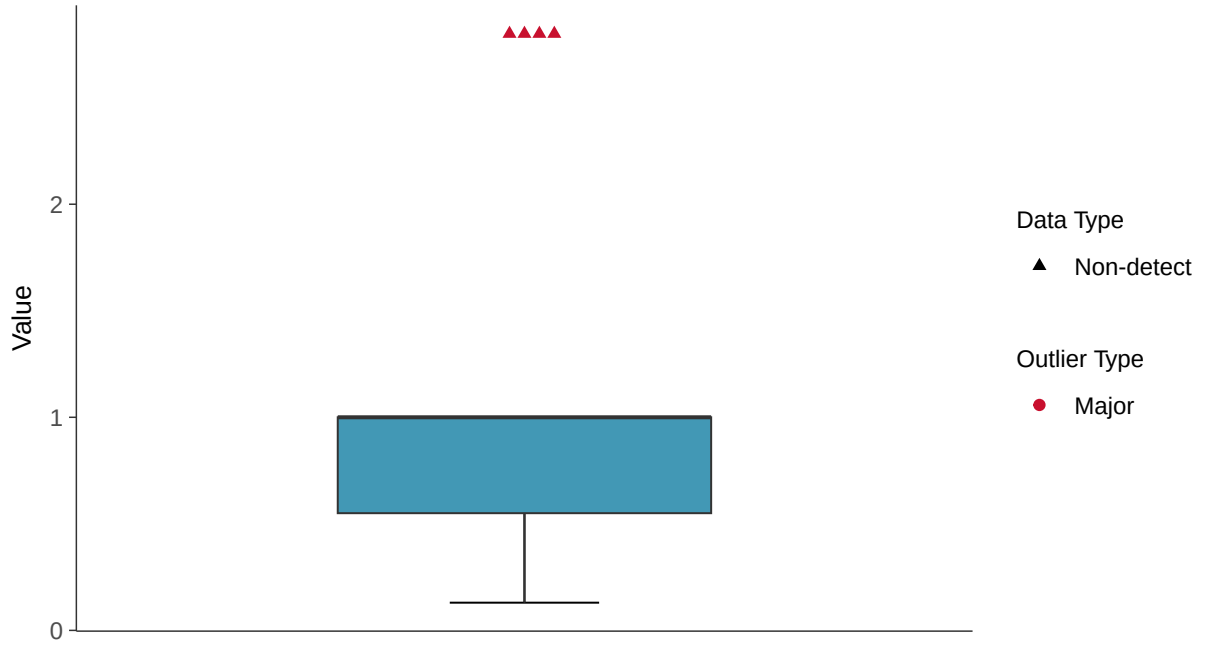
ID: 15_2_116





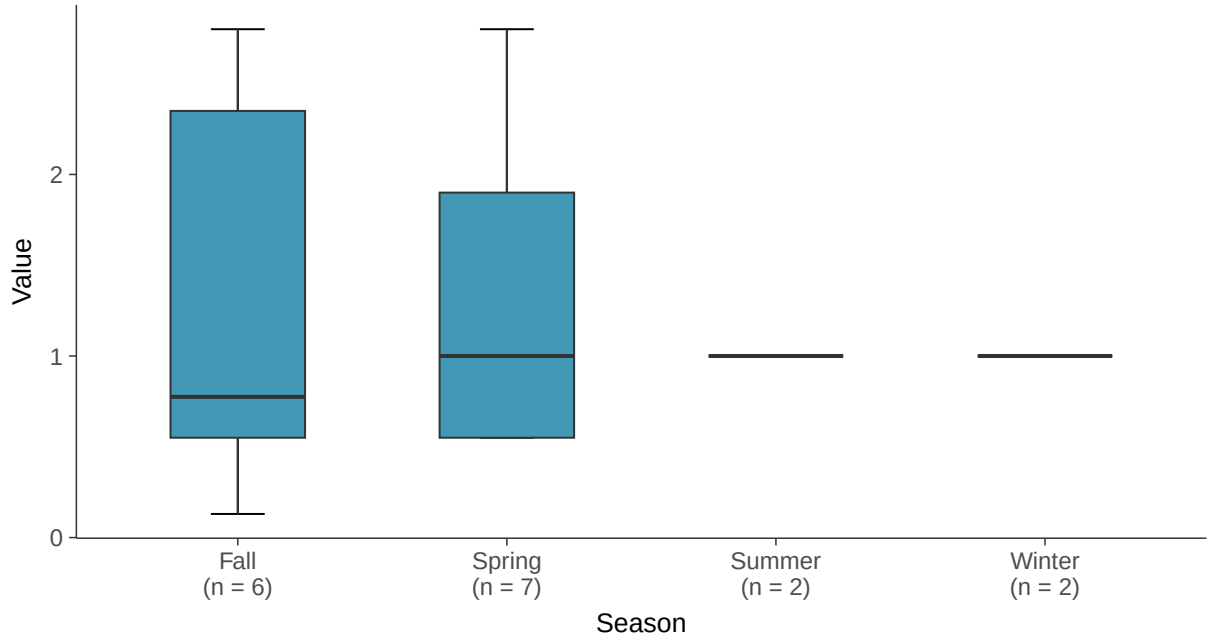
Boxplot

Lead, MW-17002 (ug/L)



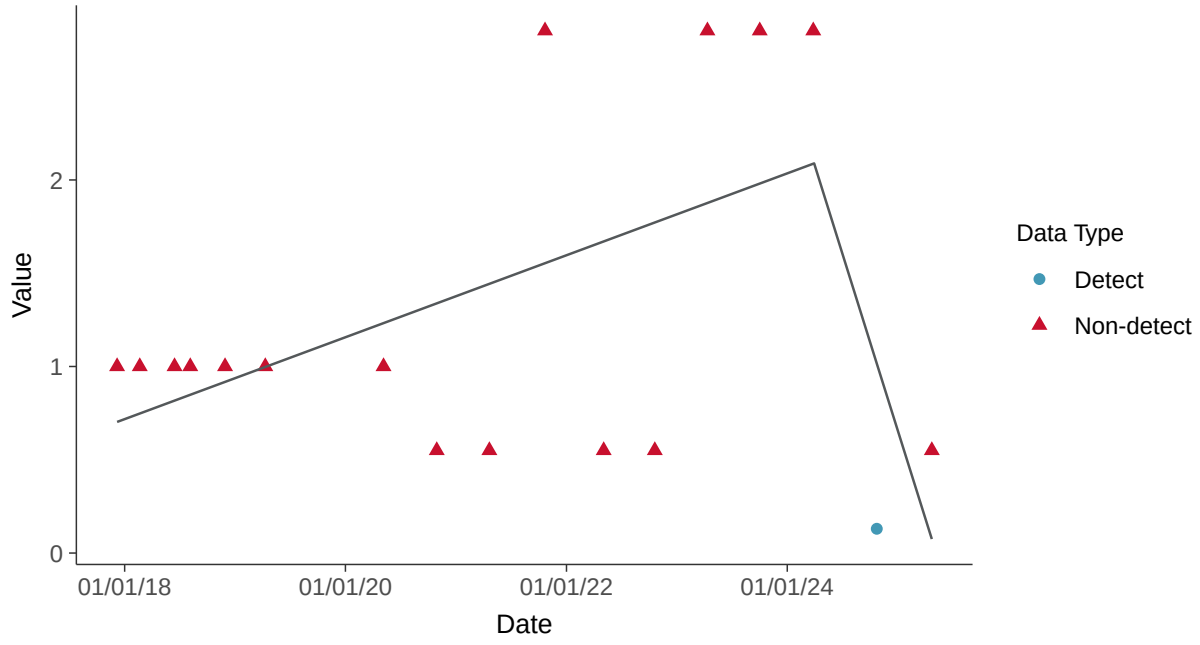
Boxplot by Season

Lead, MW-17002 (ug/L)



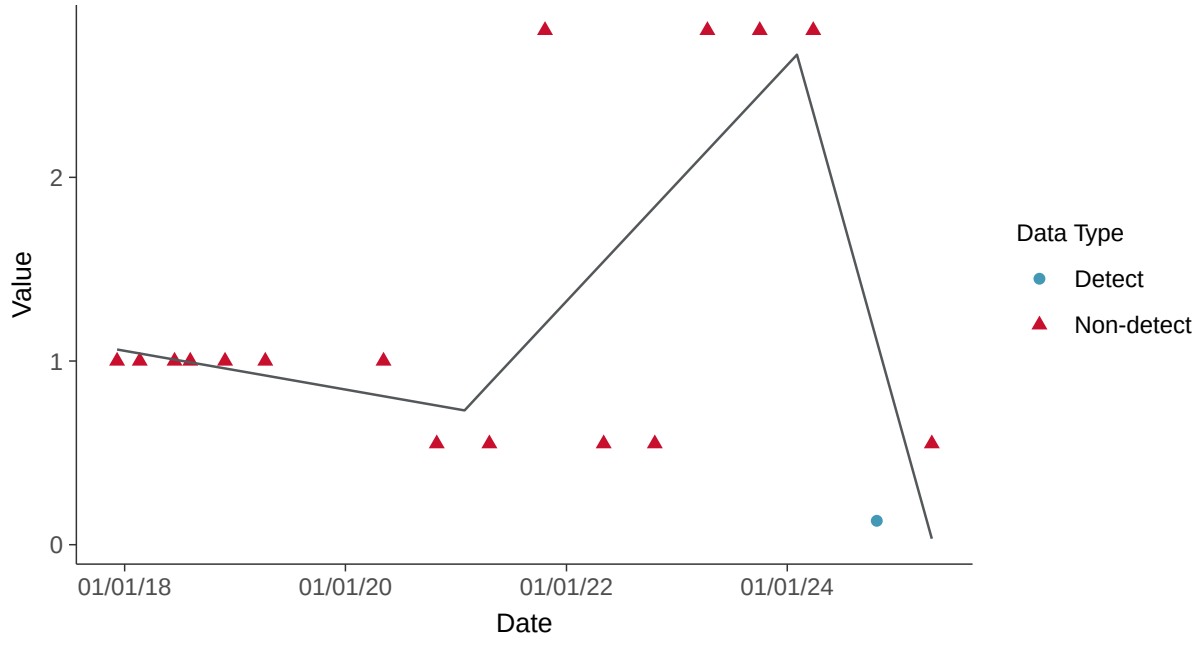
Trend Regression: Piecewise Linear-Linear

Lead, MW-17002 (ug/L)



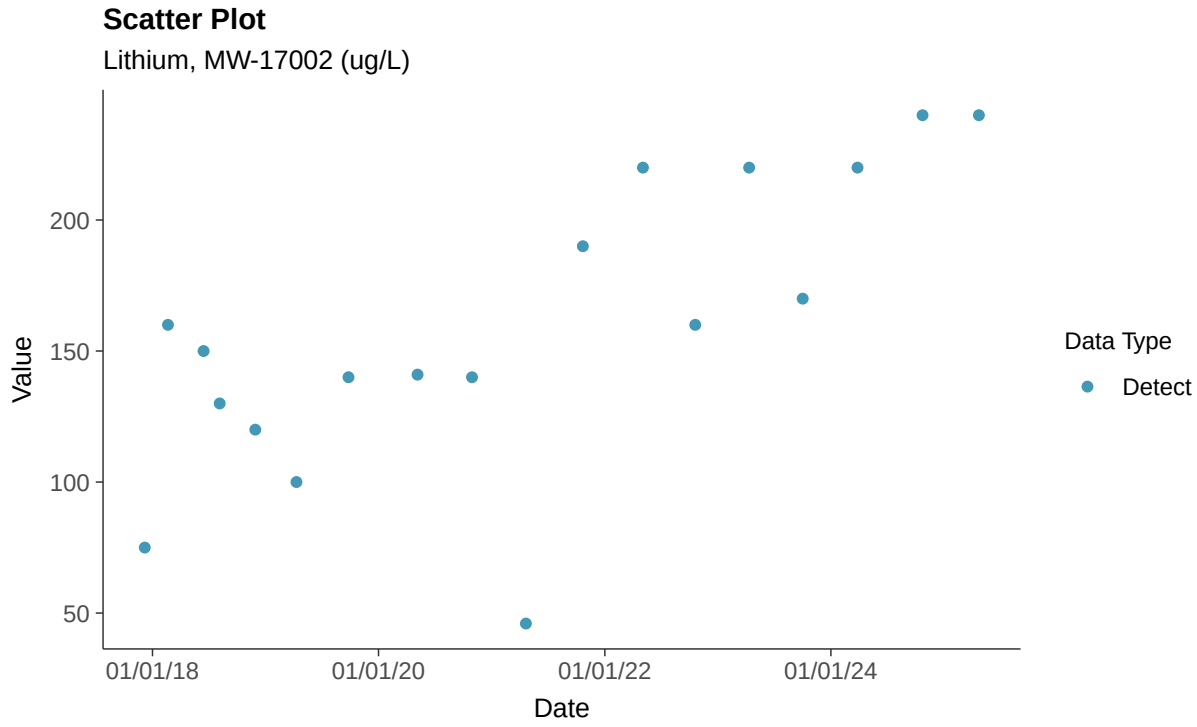
Trend Regression: Piecewise Linear-Linear-Linear

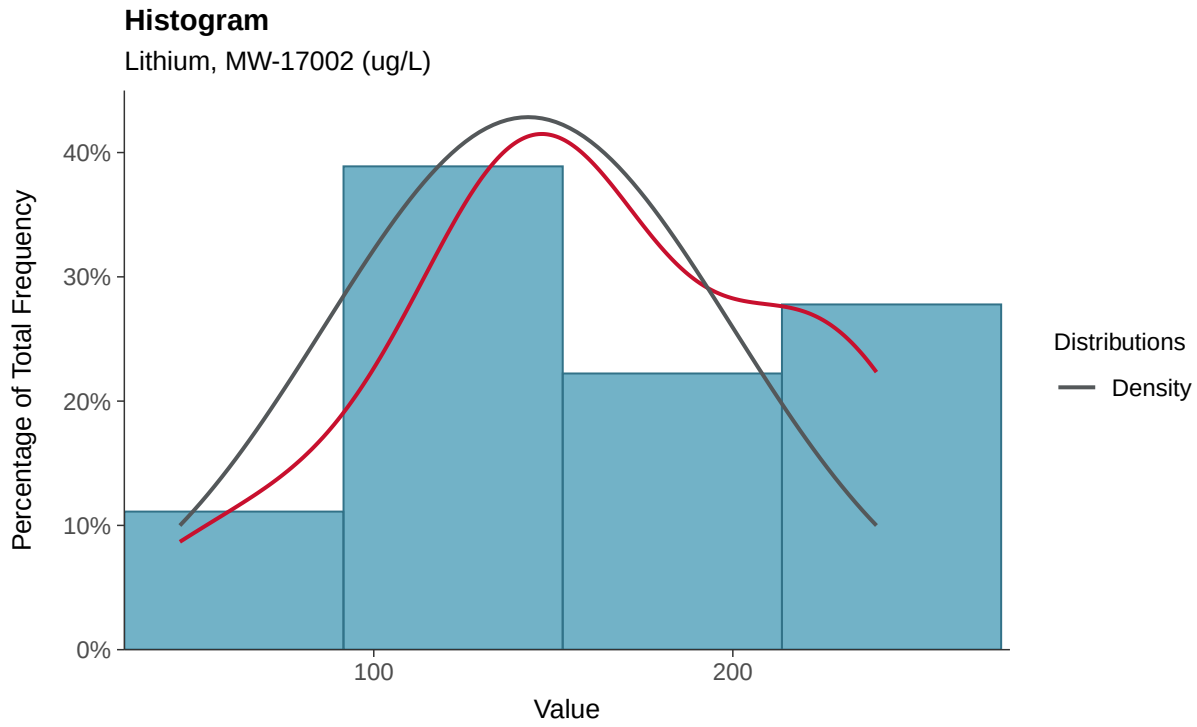
Lead, MW-17002 (ug/L)



Appendix IV: Lithium, MW-17002

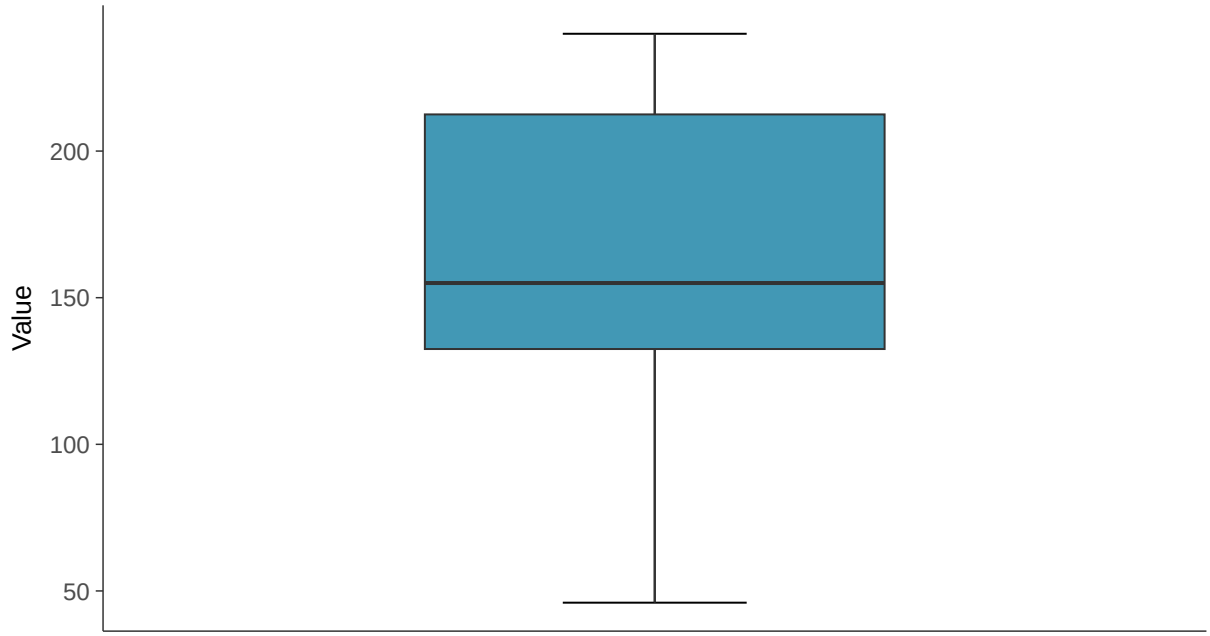
ID: 15_2_117





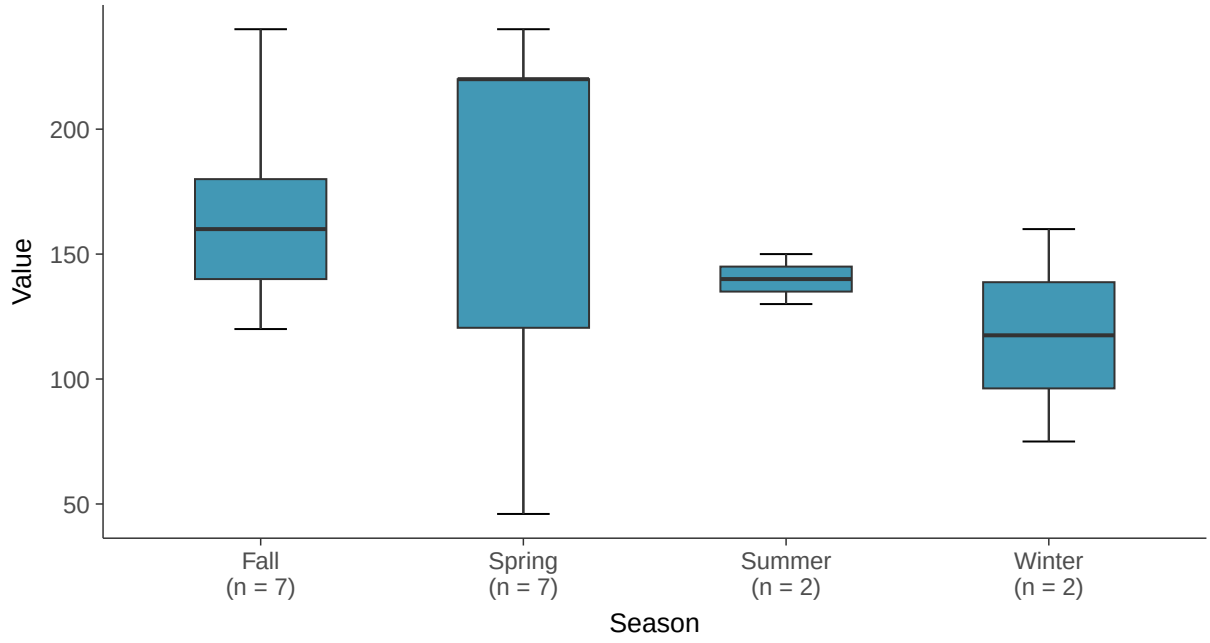
Boxplot

Lithium, MW-17002 (ug/L)



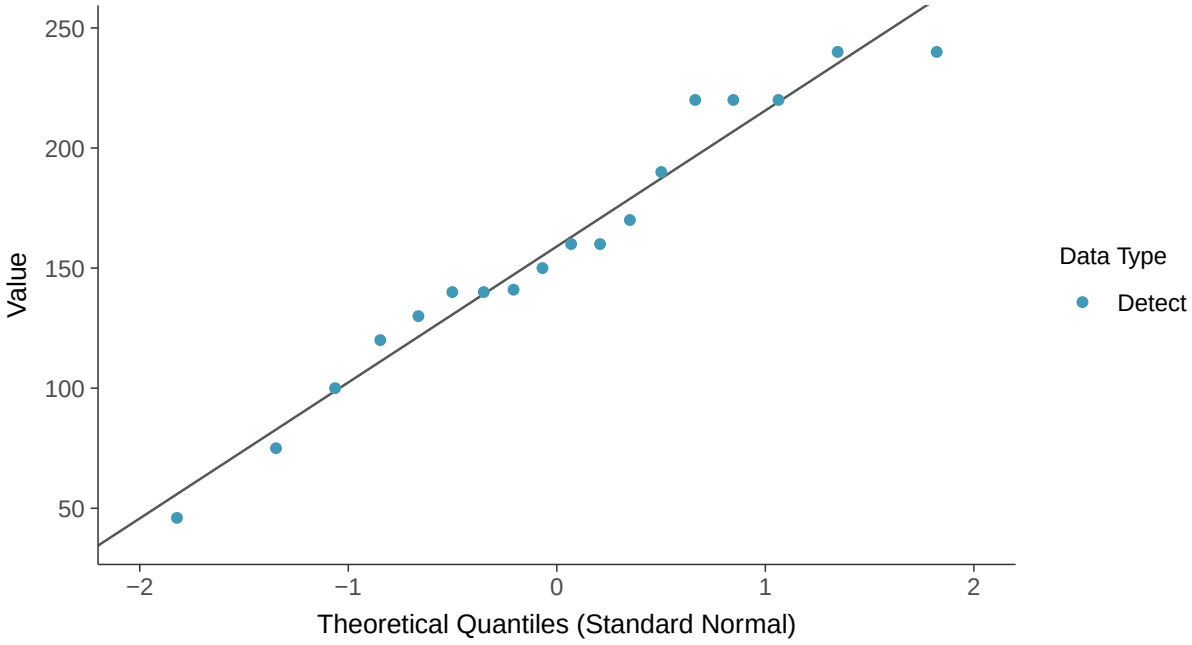
Boxplot by Season

Lithium, MW-17002 (ug/L)



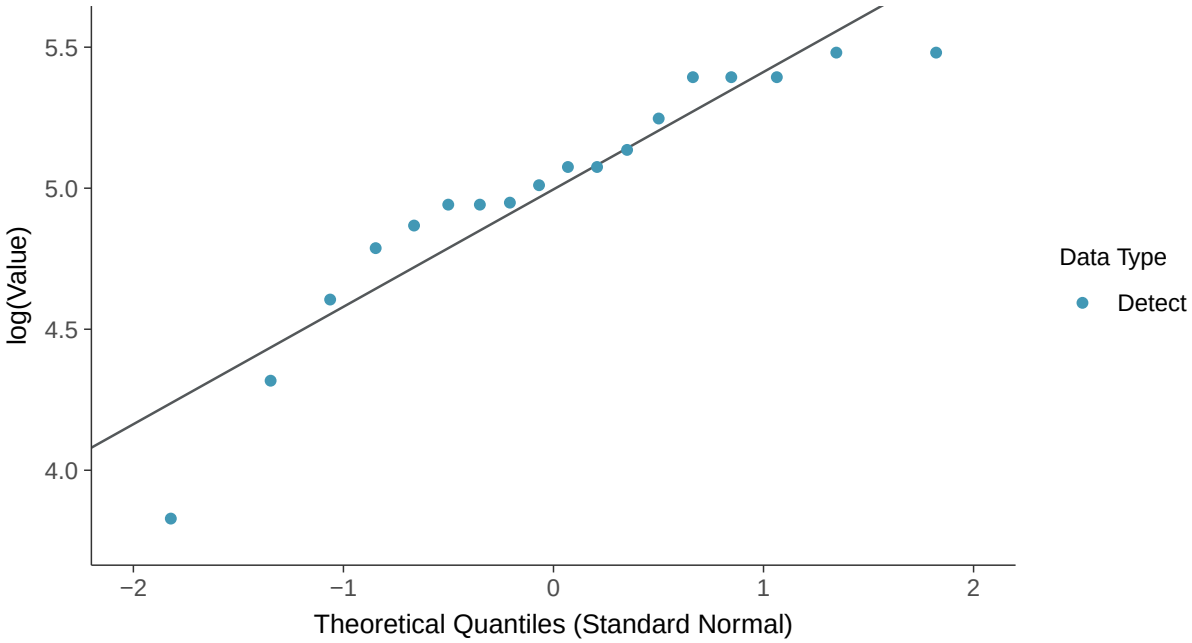
Normal Q-Q plot

Lithium, MW-17002 (ug/L)



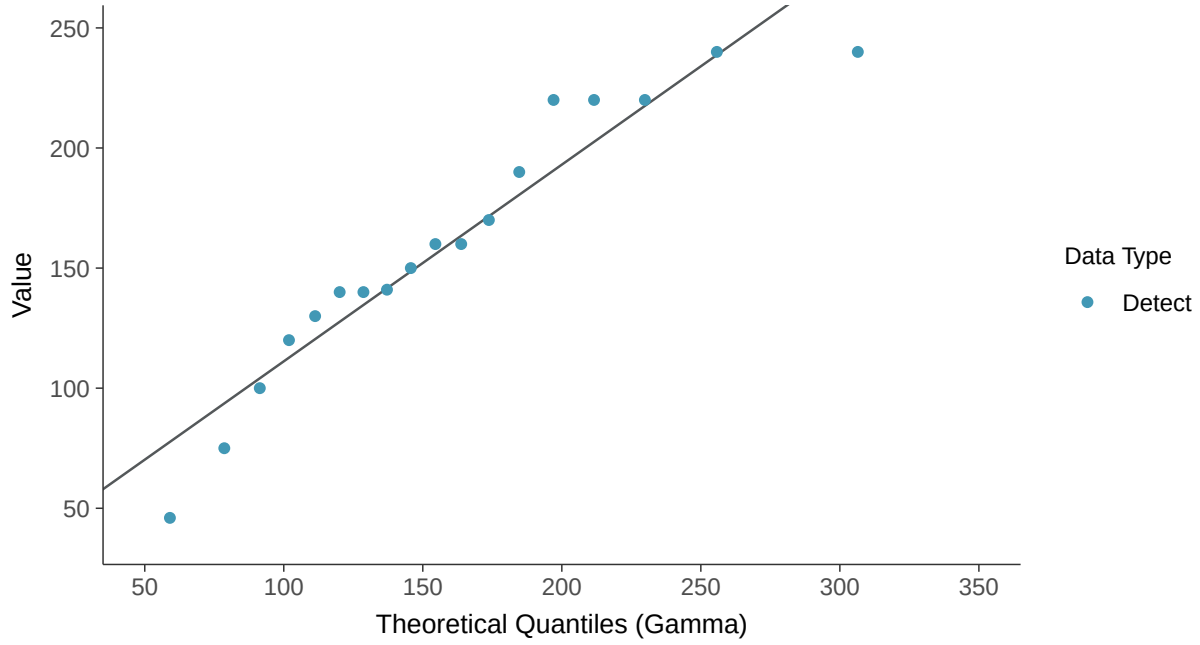
Lognormal Q-Q plot

Lithium, MW-17002 (ug/L)



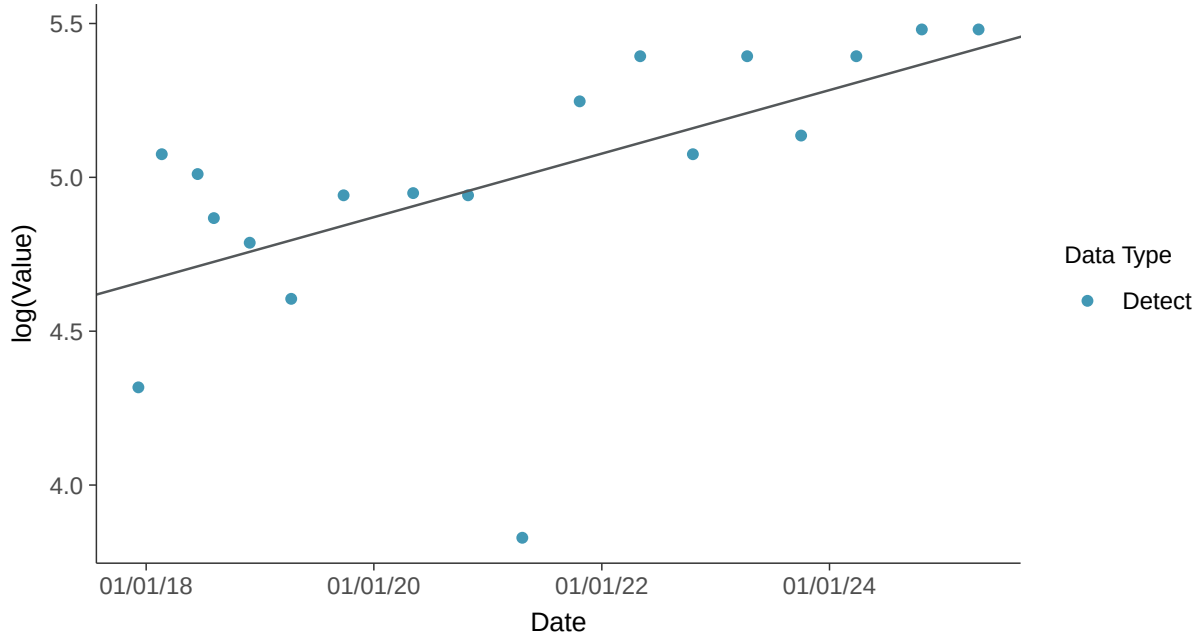
Gamma Q-Q plot

Lithium, MW-17002 (ug/L)



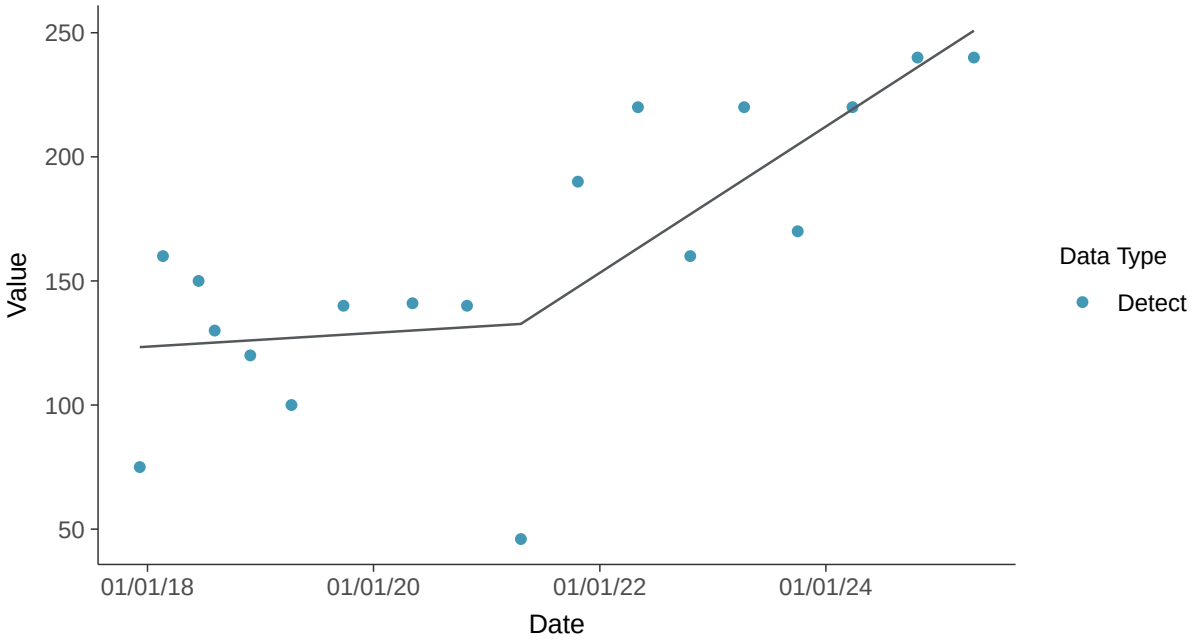
Trend Regression: Lognormal MLE

Lithium, MW-17002 (ug/L)



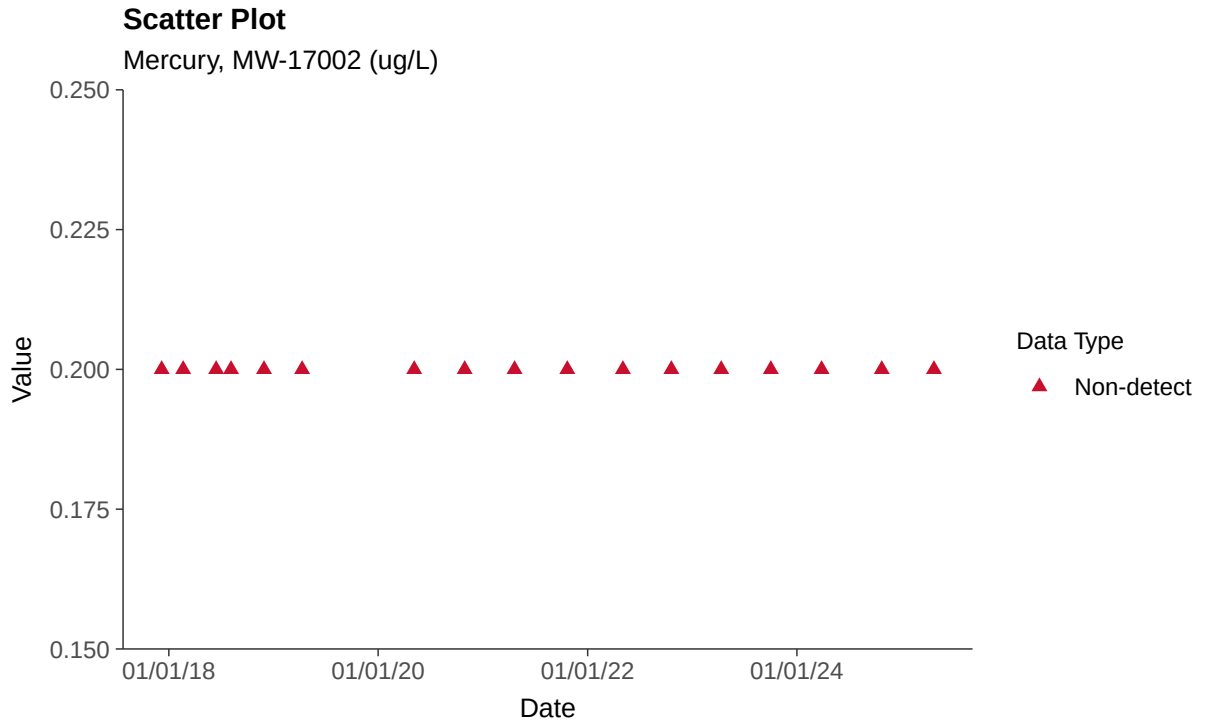
Trend Regression: Piecewise Linear-Linear

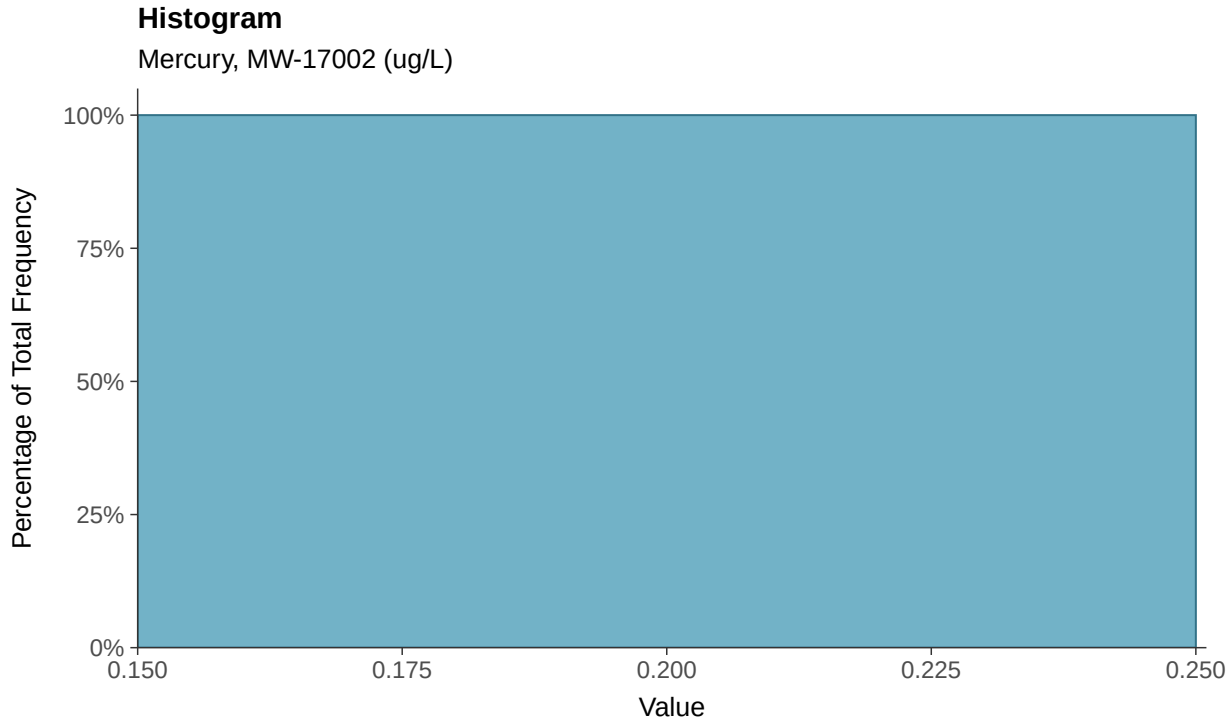
Lithium, MW-17002 (ug/L)



Appendix IV: Mercury, MW-17002

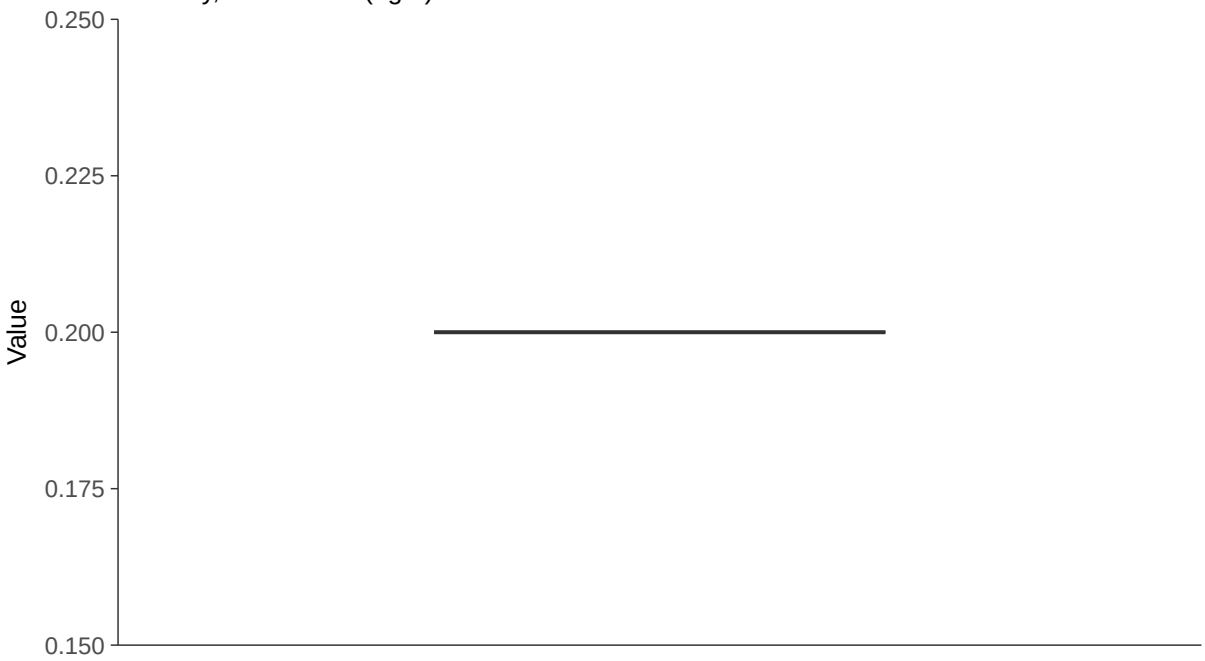
ID: 15_2_118





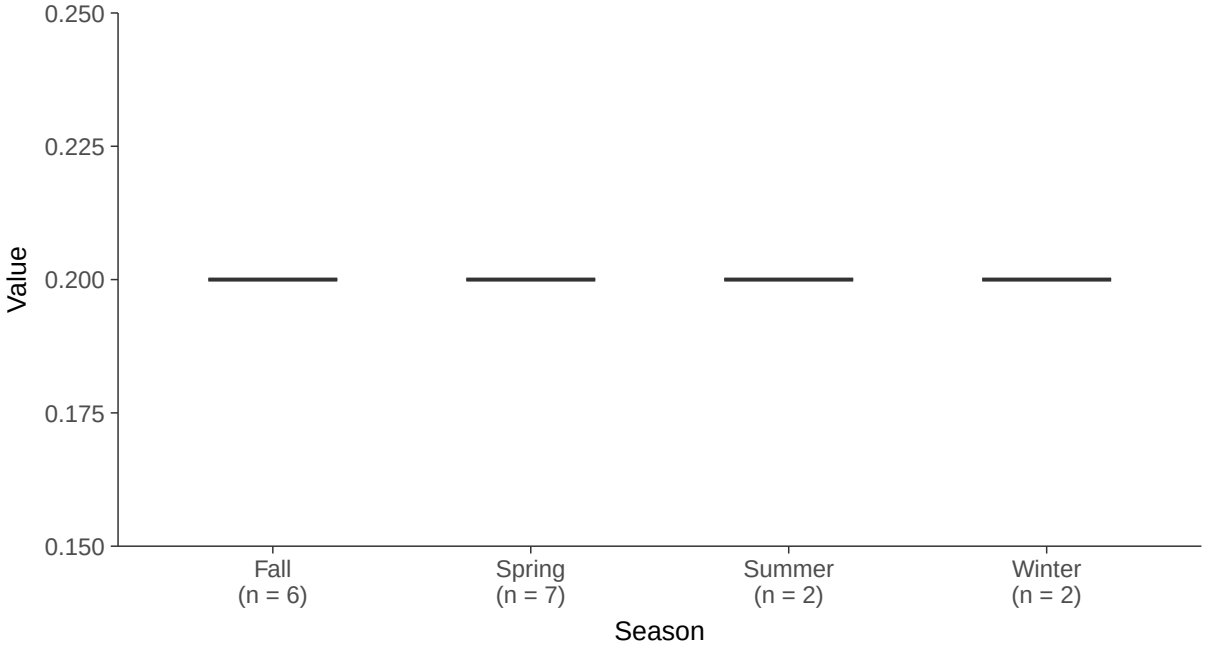
Boxplot

Mercury, MW-17002 (ug/L)



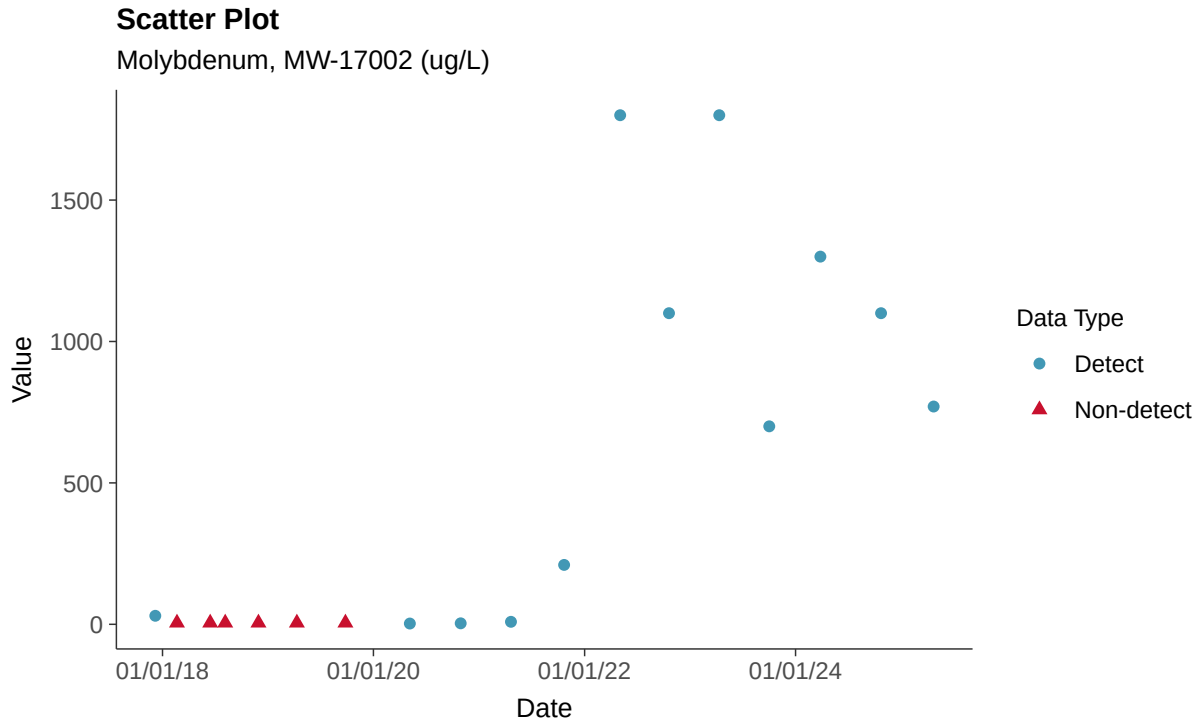
Boxplot by Season

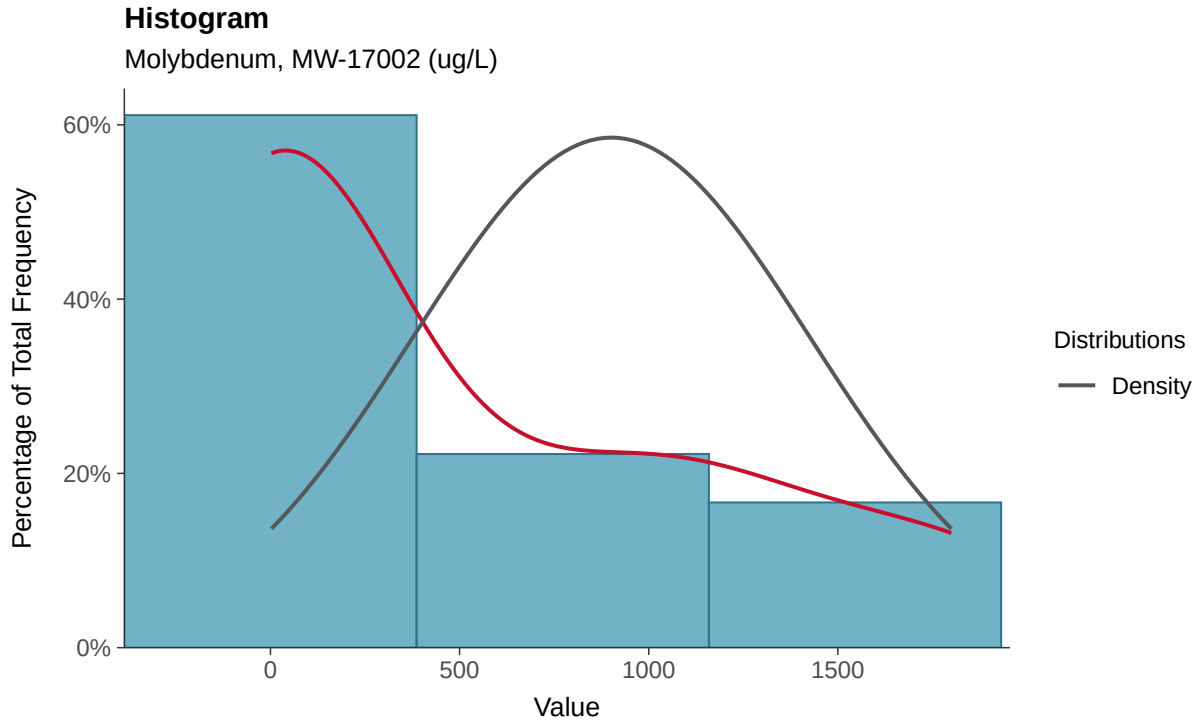
Mercury, MW-17002 (ug/L)



Appendix IV: Molybdenum, MW-17002

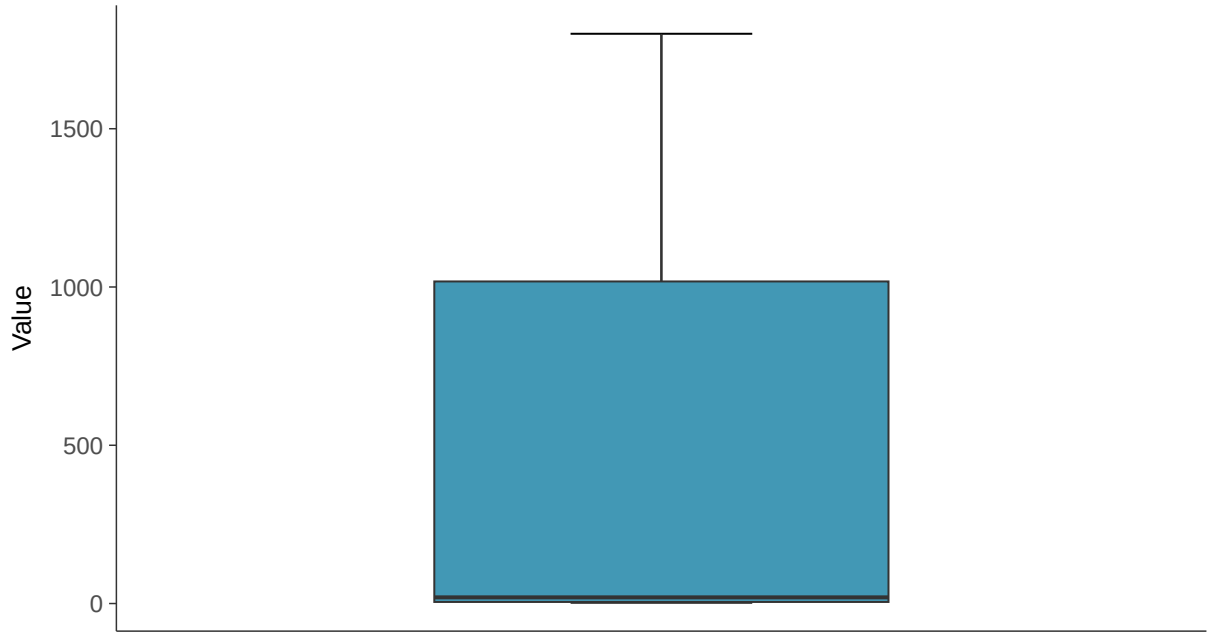
ID: 15_2_119





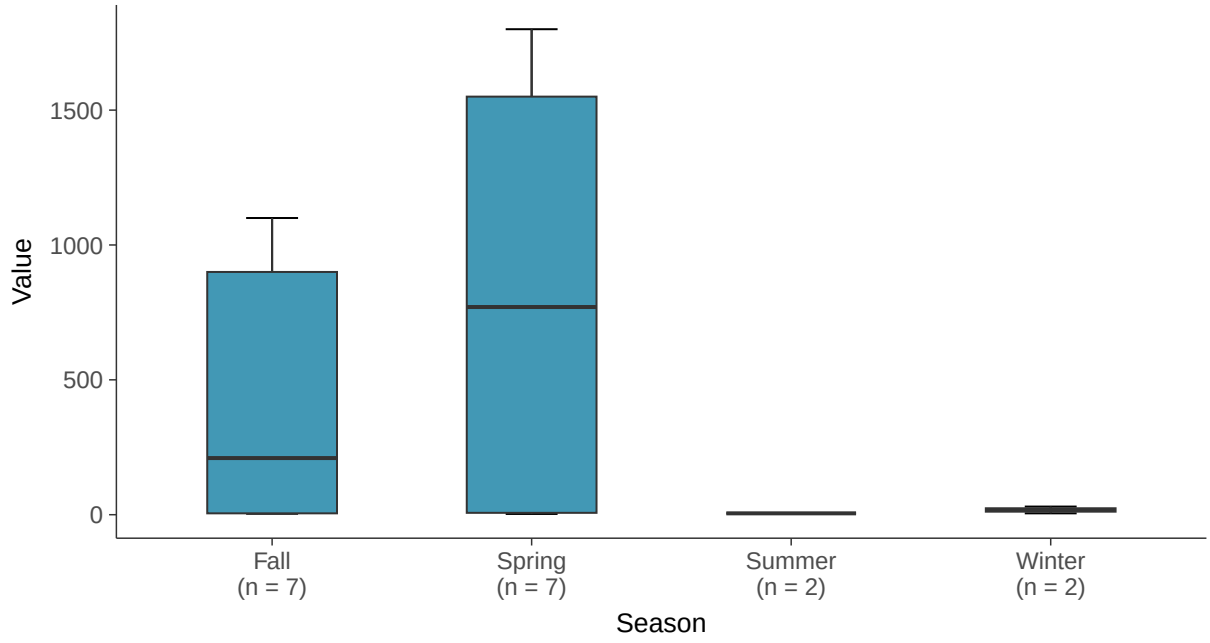
Boxplot

Molybdenum, MW-17002 (ug/L)



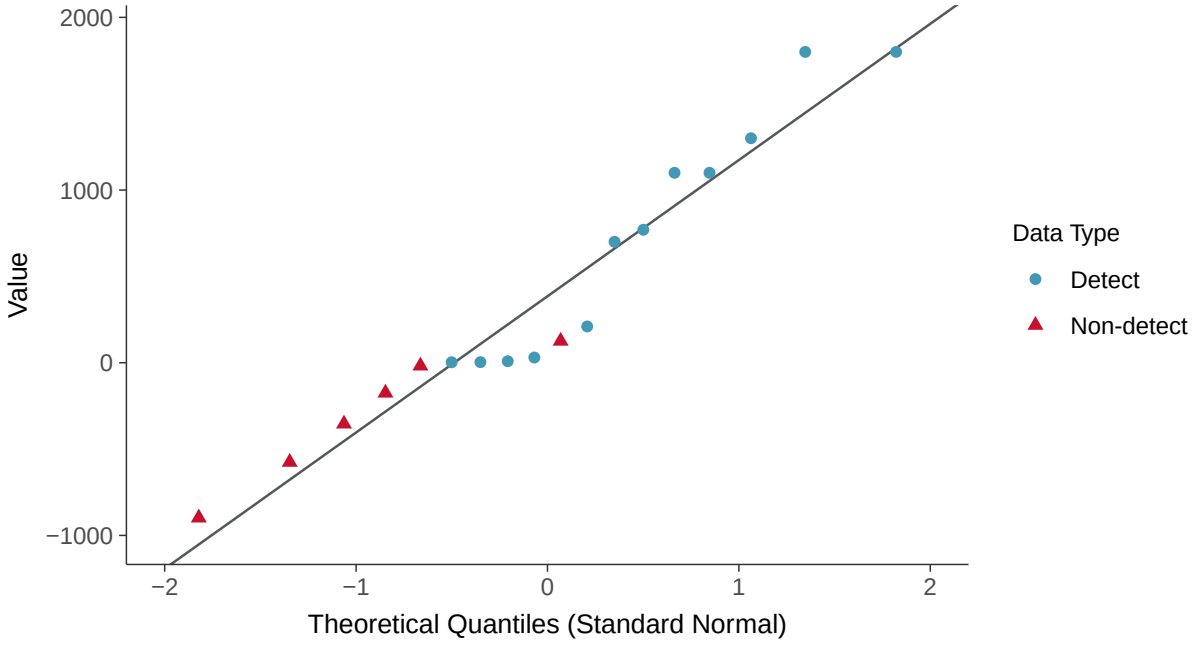
Boxplot by Season

Molybdenum, MW-17002 (ug/L)



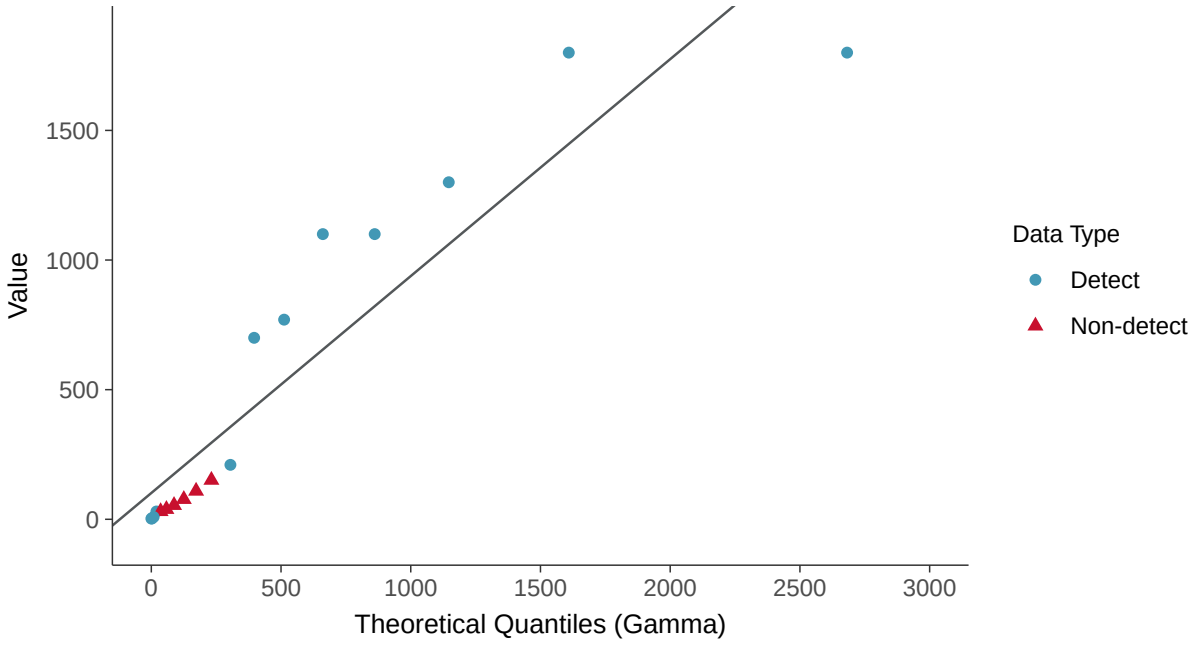
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17002 (ug/L)



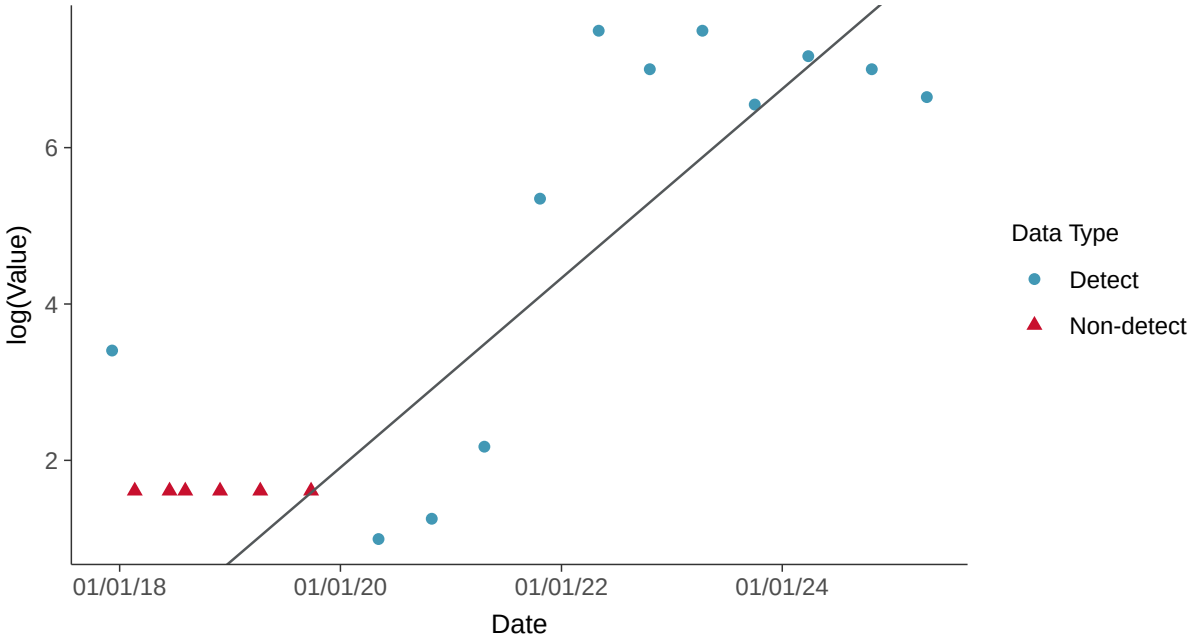
Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17002 (ug/L)



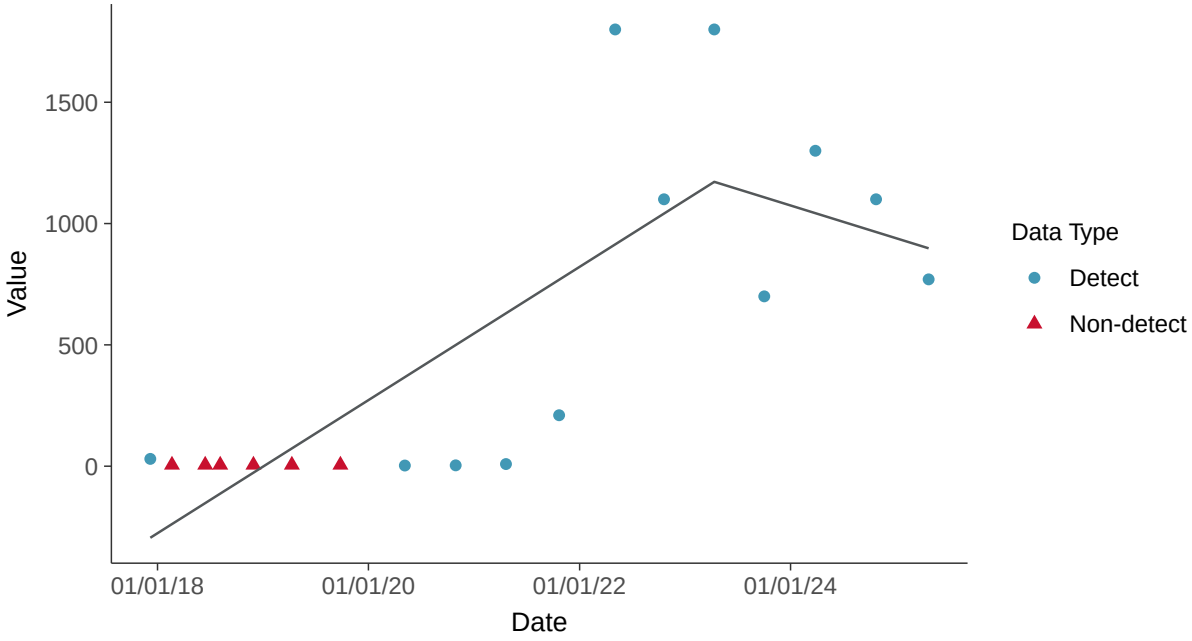
Trend Regression: Lognormal MLE

Molybdenum, MW-17002 (ug/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-17002 (ug/L)

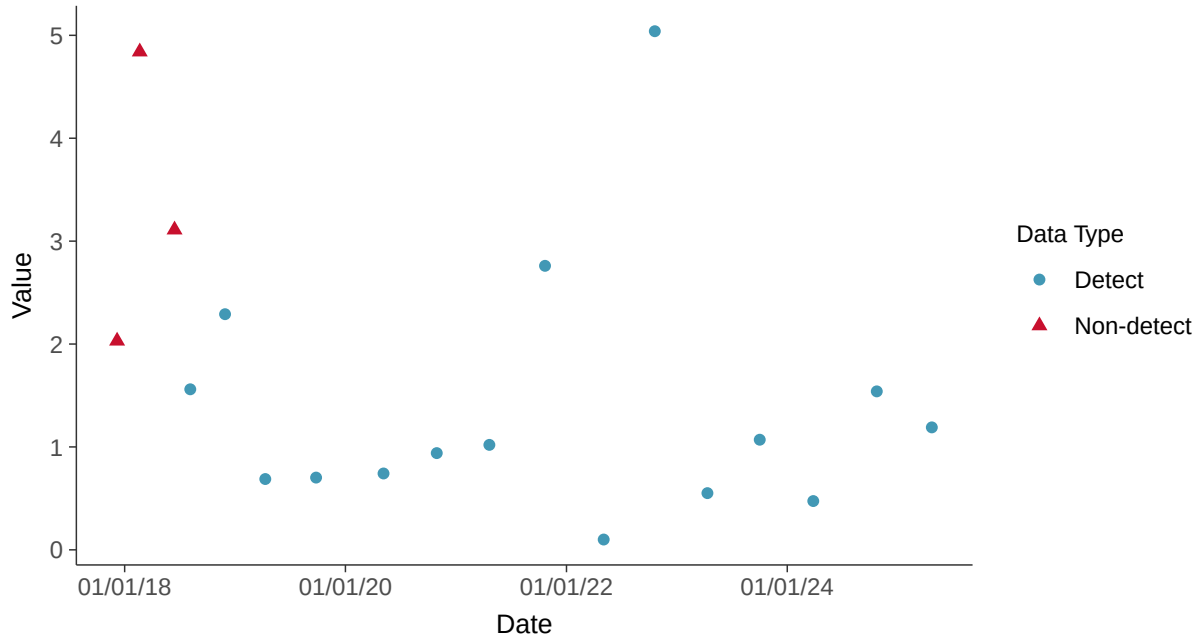


Appendix IV: Radium-226+228, MW-17002

ID: 15_2_125

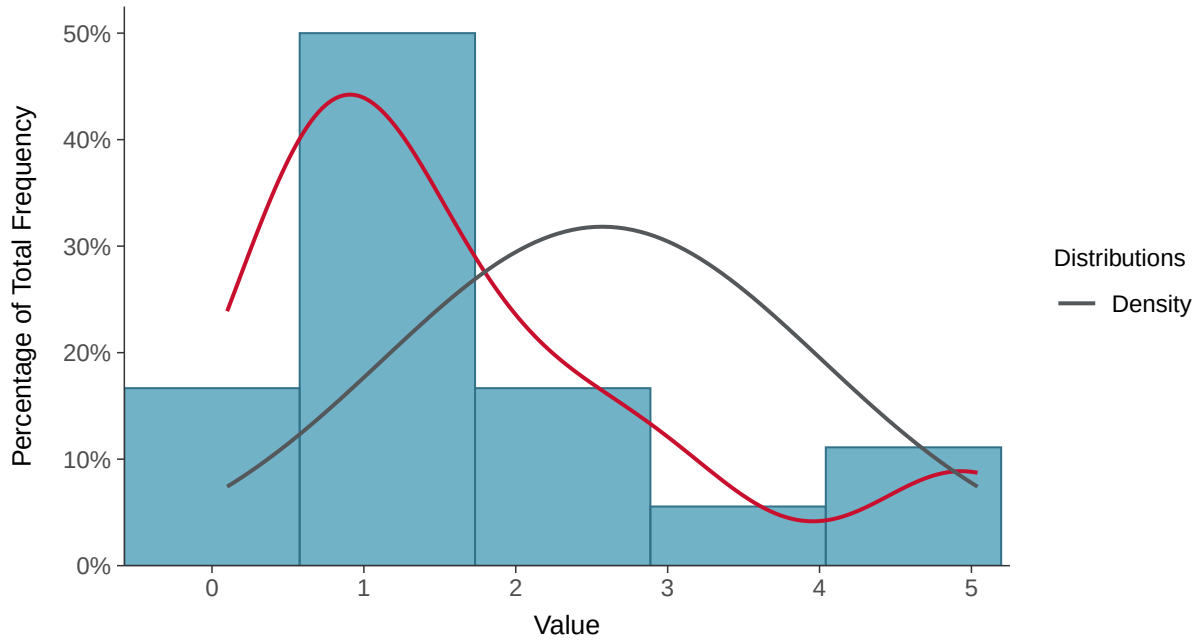
Scatter Plot

Radium-226+228, MW-17002 (pCi/L)



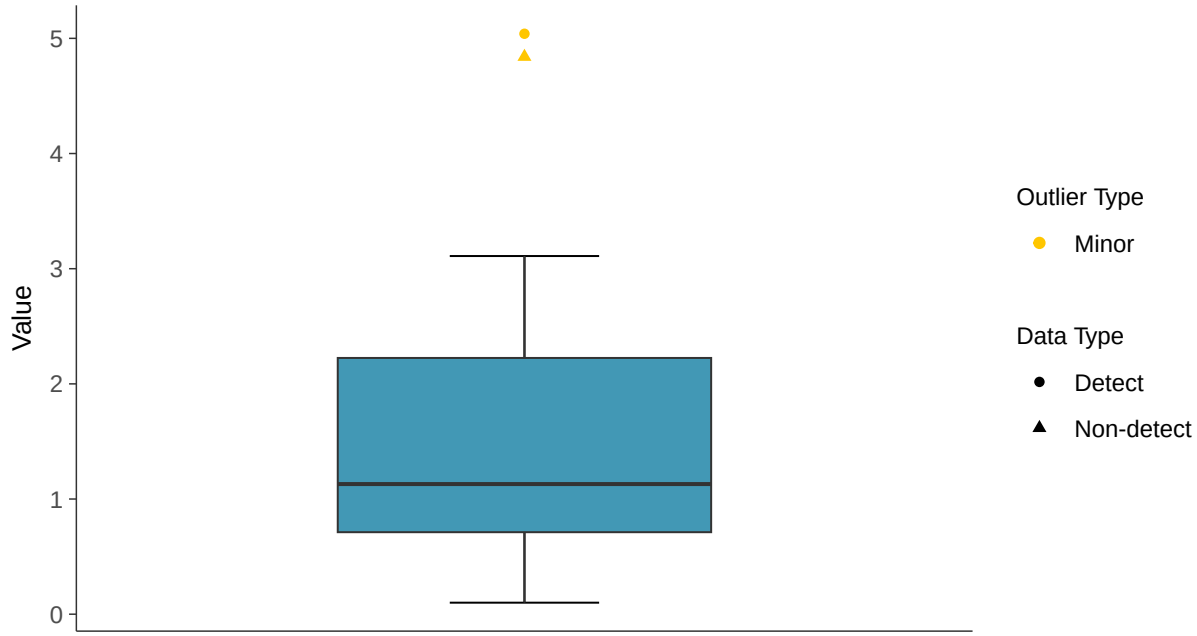
Histogram

Radium-226+228, MW-17002 (pCi/L)



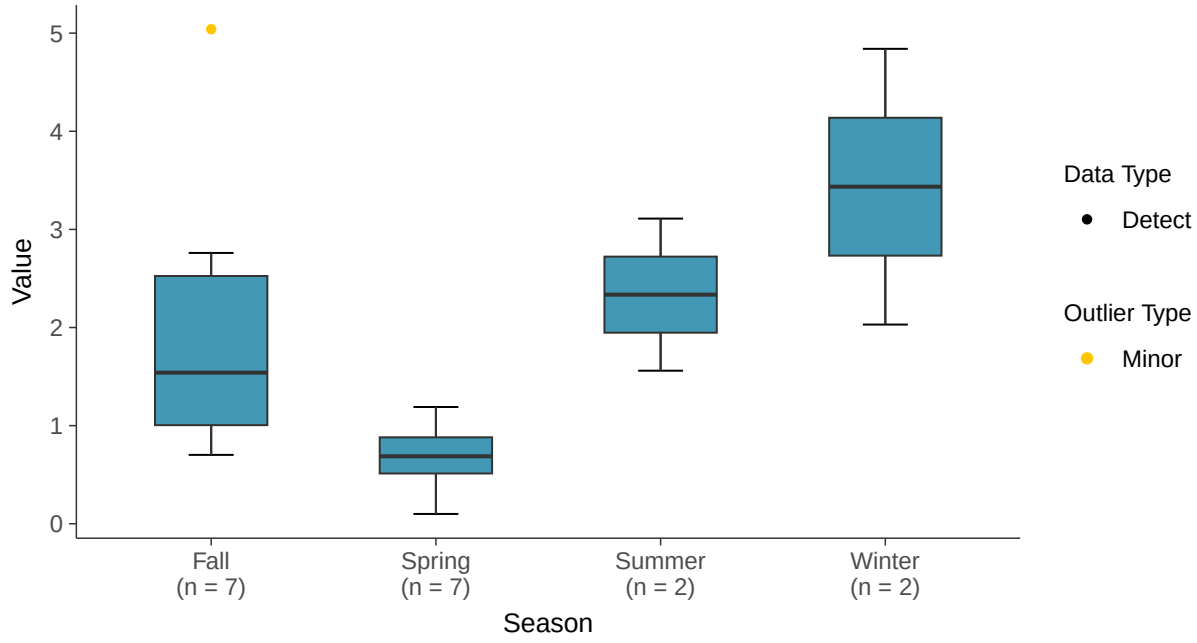
Boxplot

Radium-226+228, MW-17002 (pCi/L)



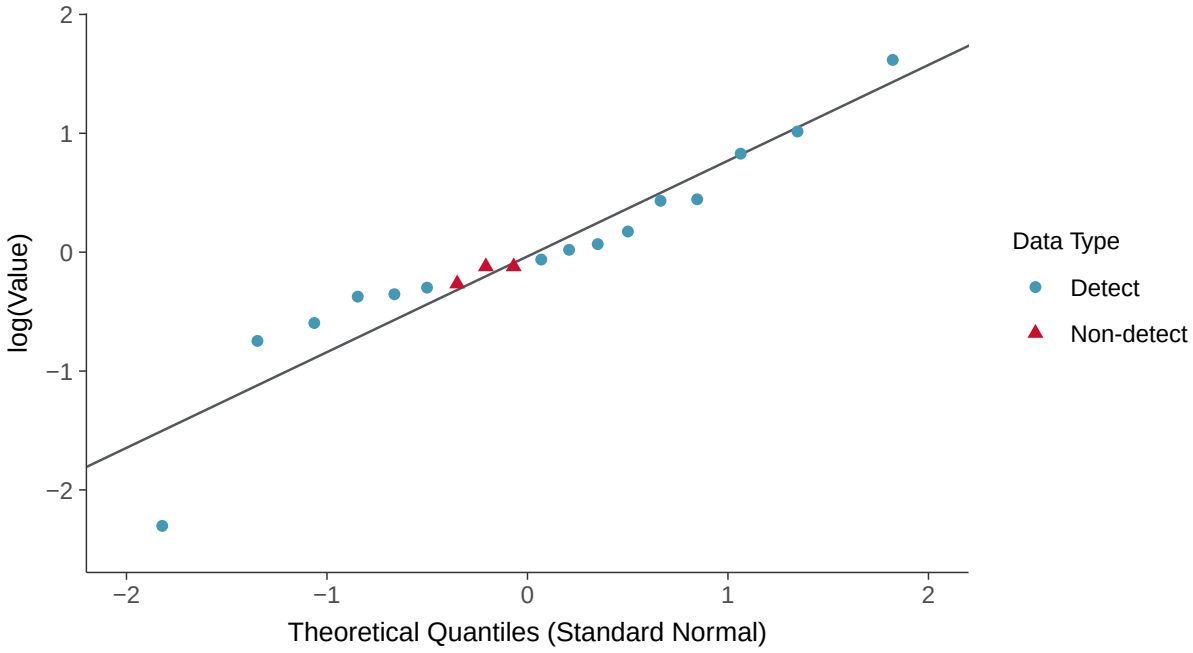
Boxplot by Season

Radium-226+228, MW-17002 (pCi/L)



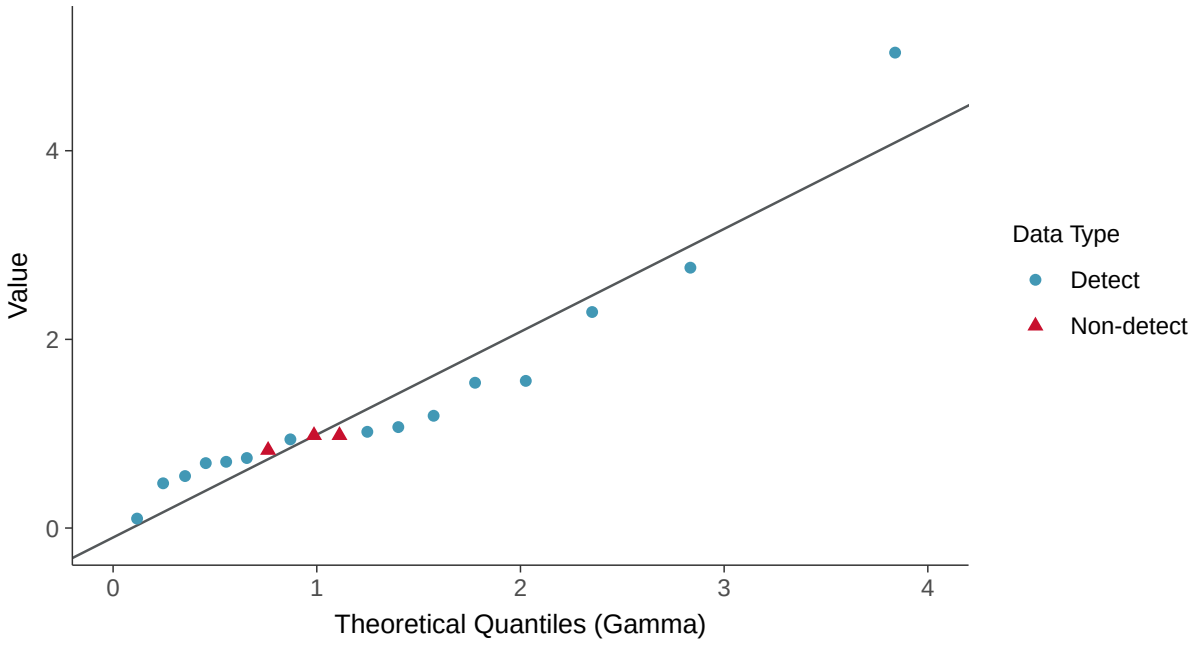
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-17002 (pCi/L)



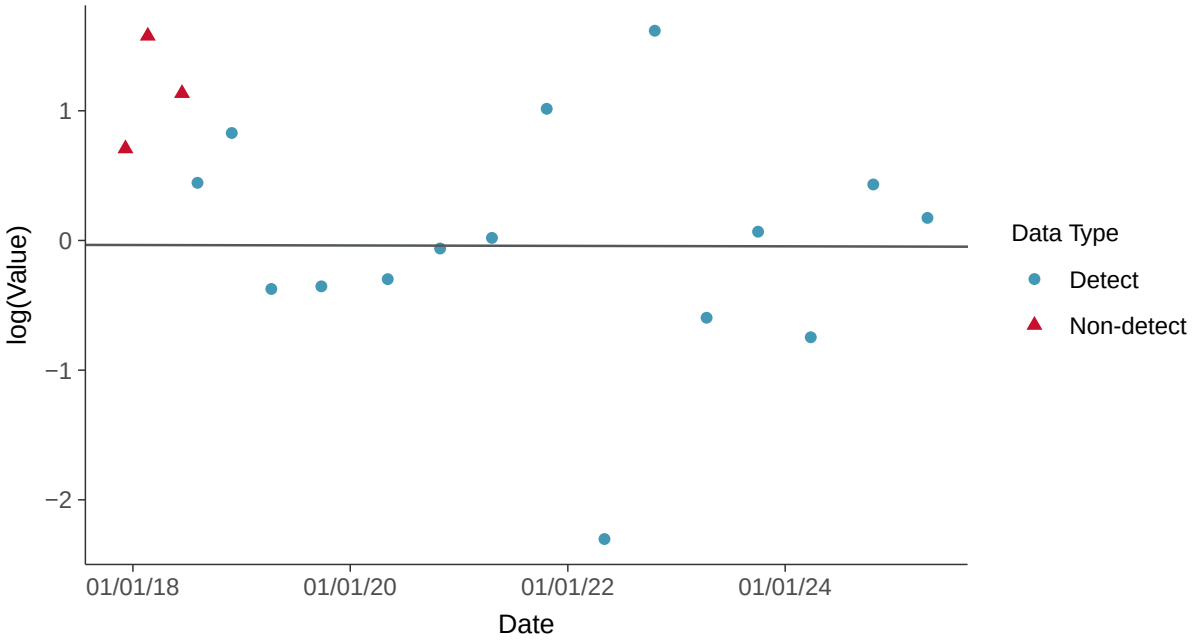
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-17002 (pCi/L)



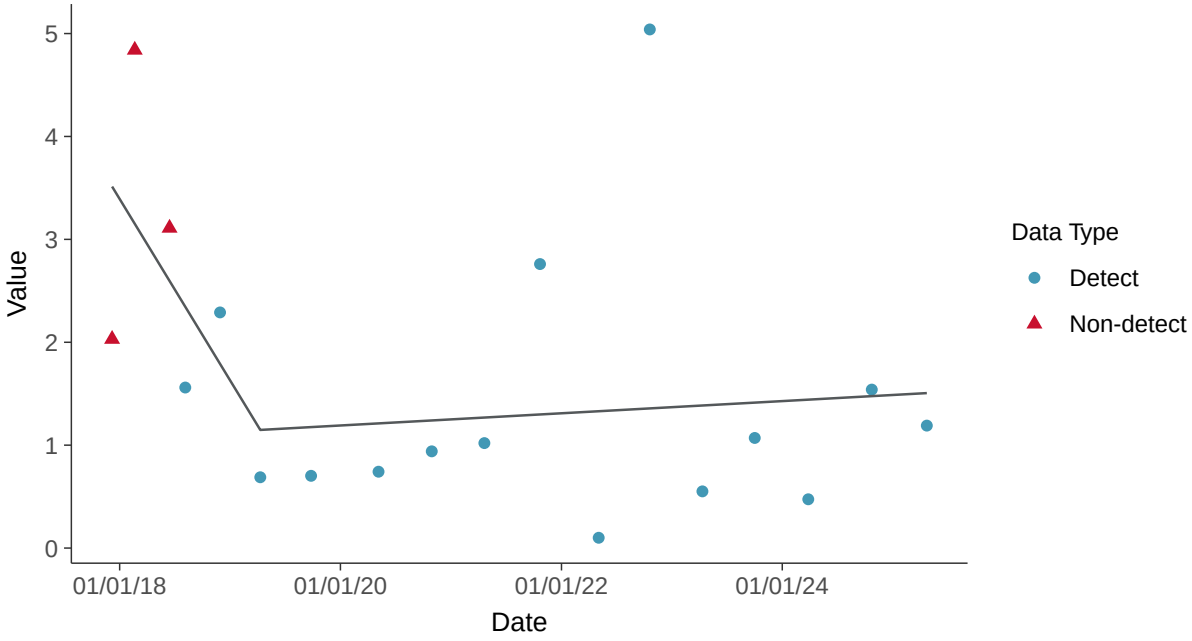
Trend Regression: Lognormal MLE

Radium-226+228, MW-17002 (pCi/L)



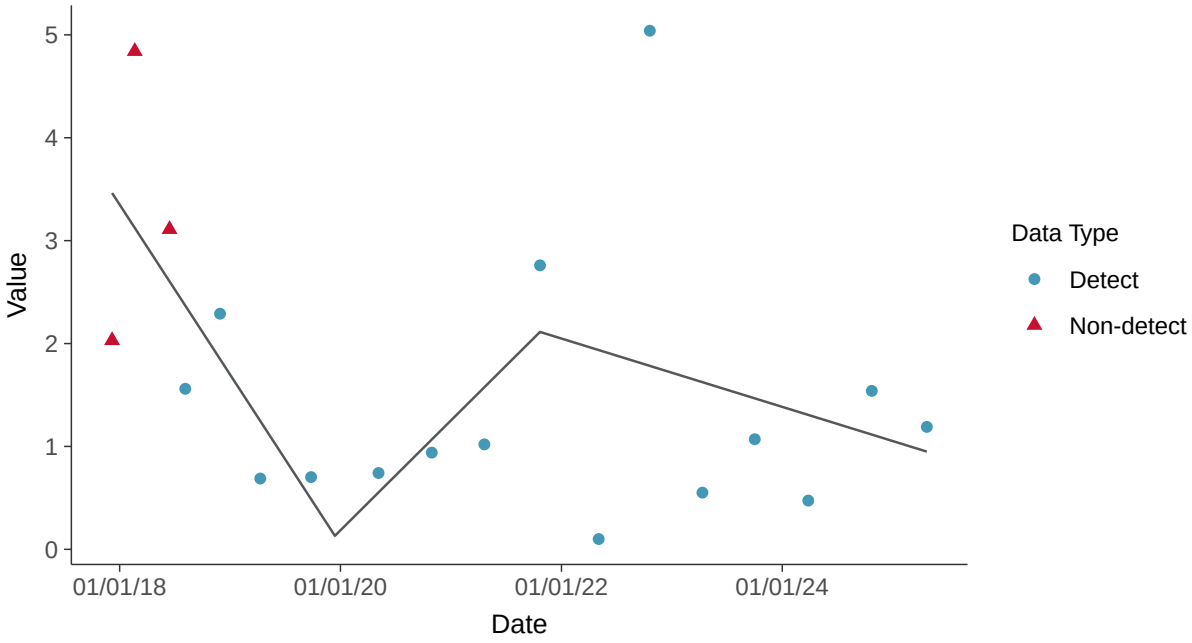
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-17002 (pCi/L)



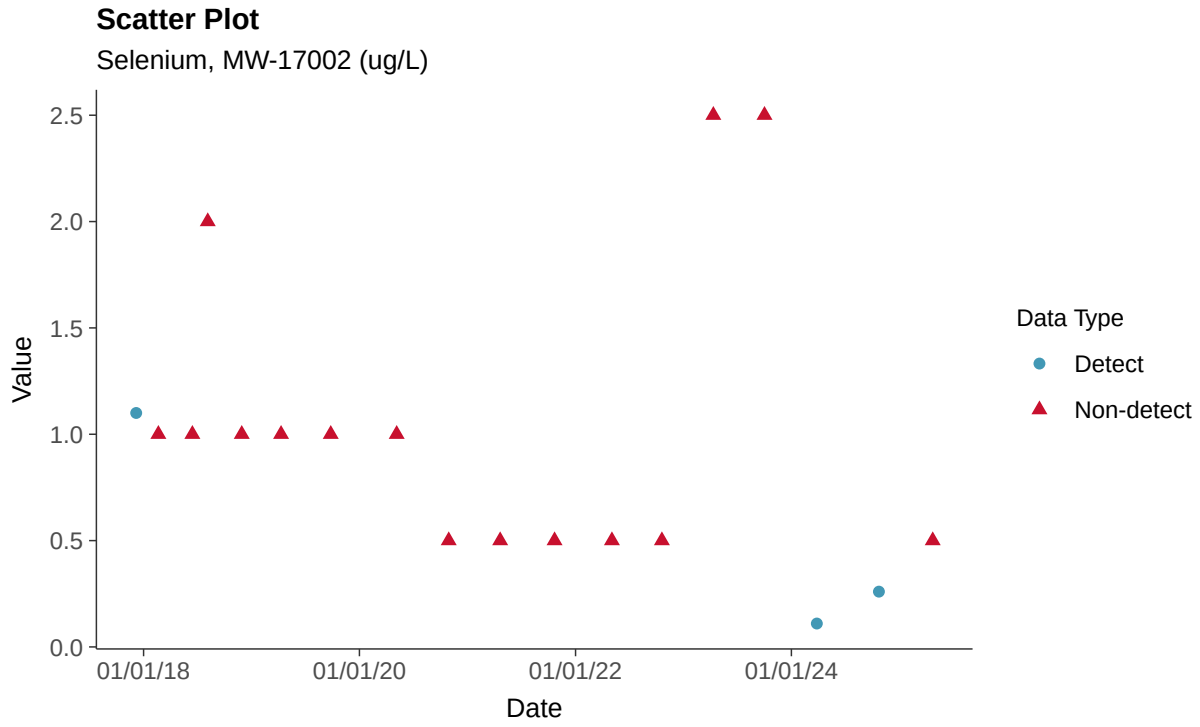
Trend Regression: Piecewise Linear-Linear-Linear

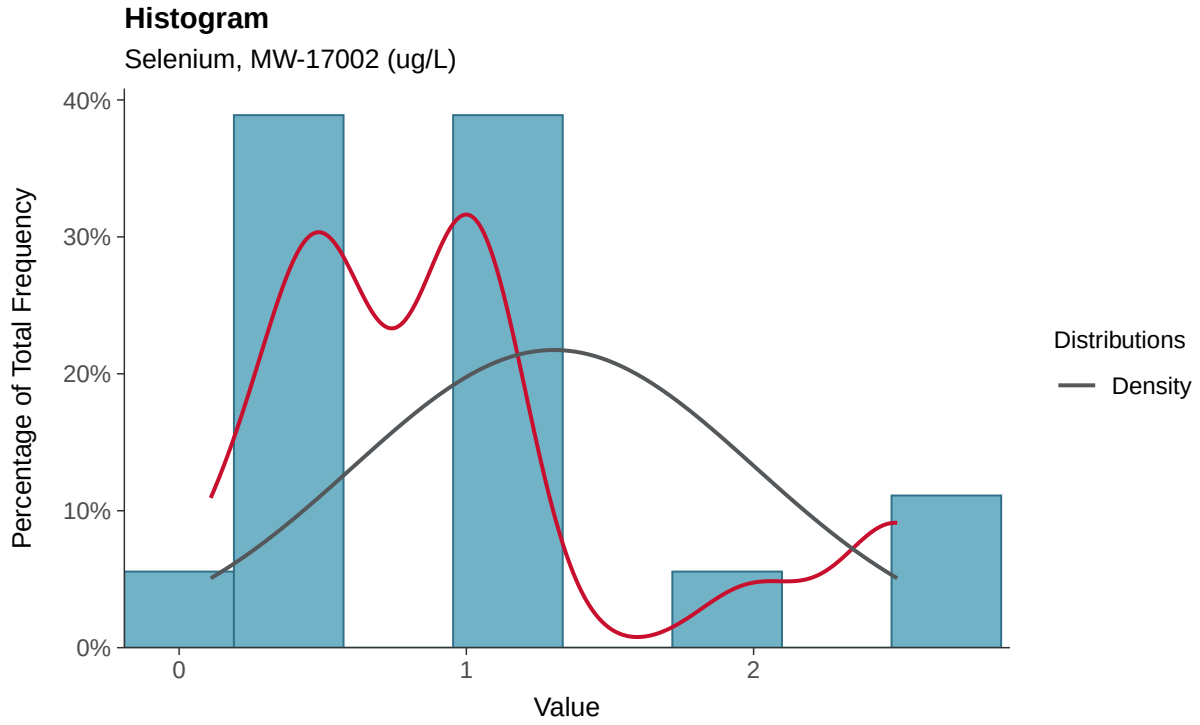
Radium-226+228, MW-17002 (pCi/L)



Appendix IV: Selenium, MW-17002

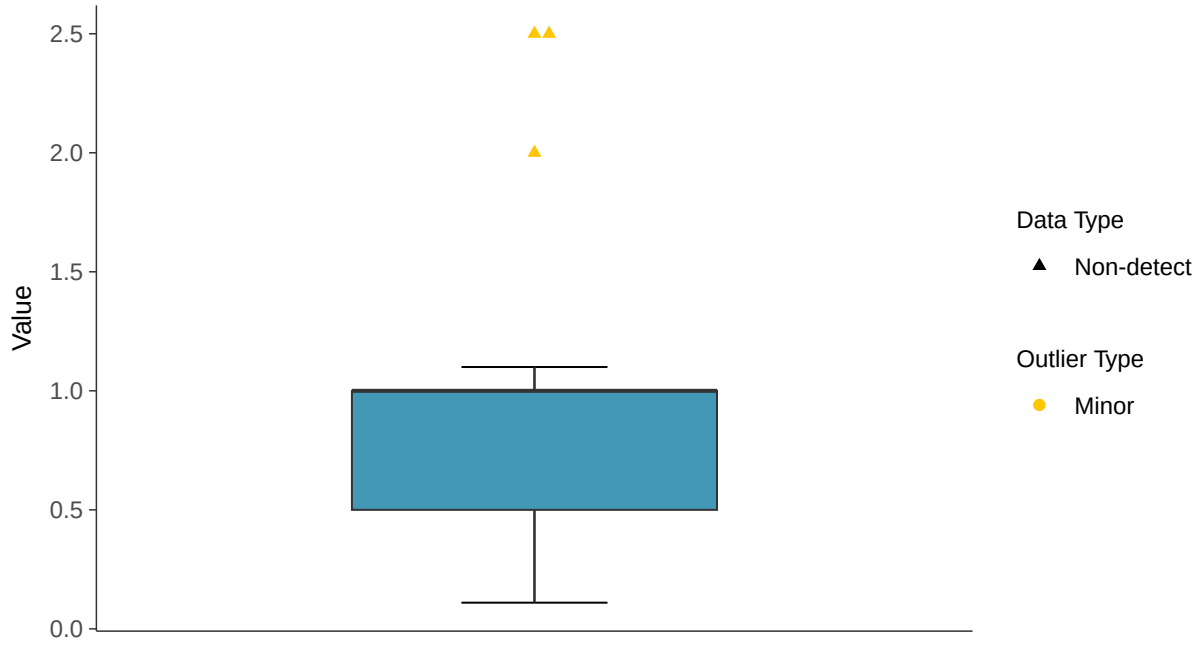
ID: 15_2_127





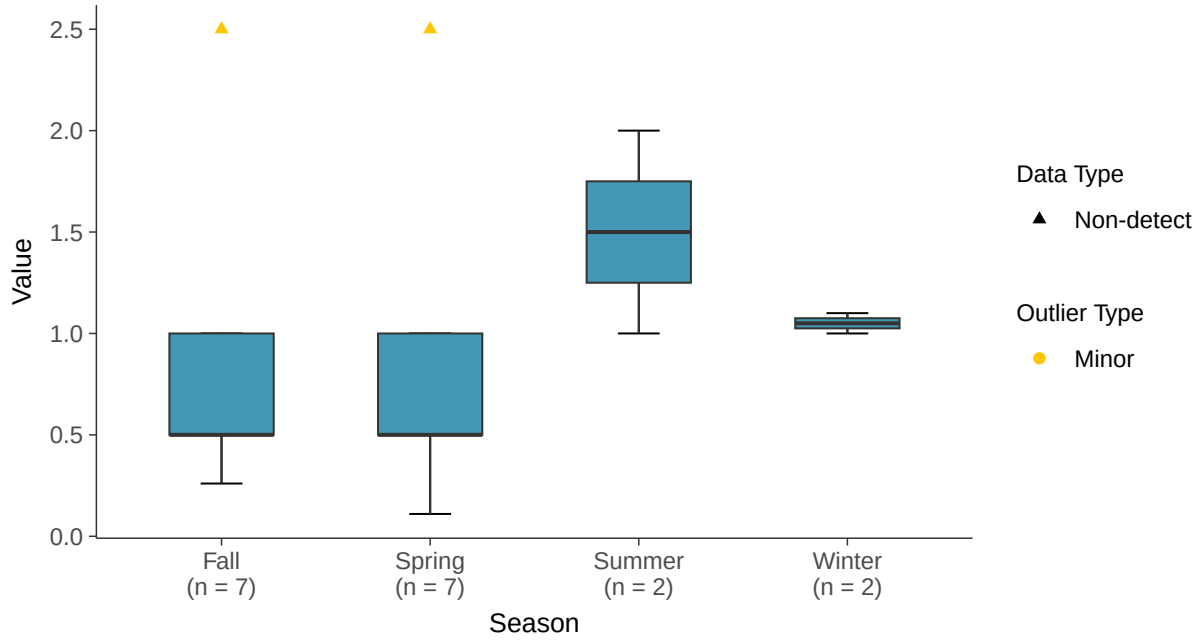
Boxplot

Selenium, MW-17002 (ug/L)



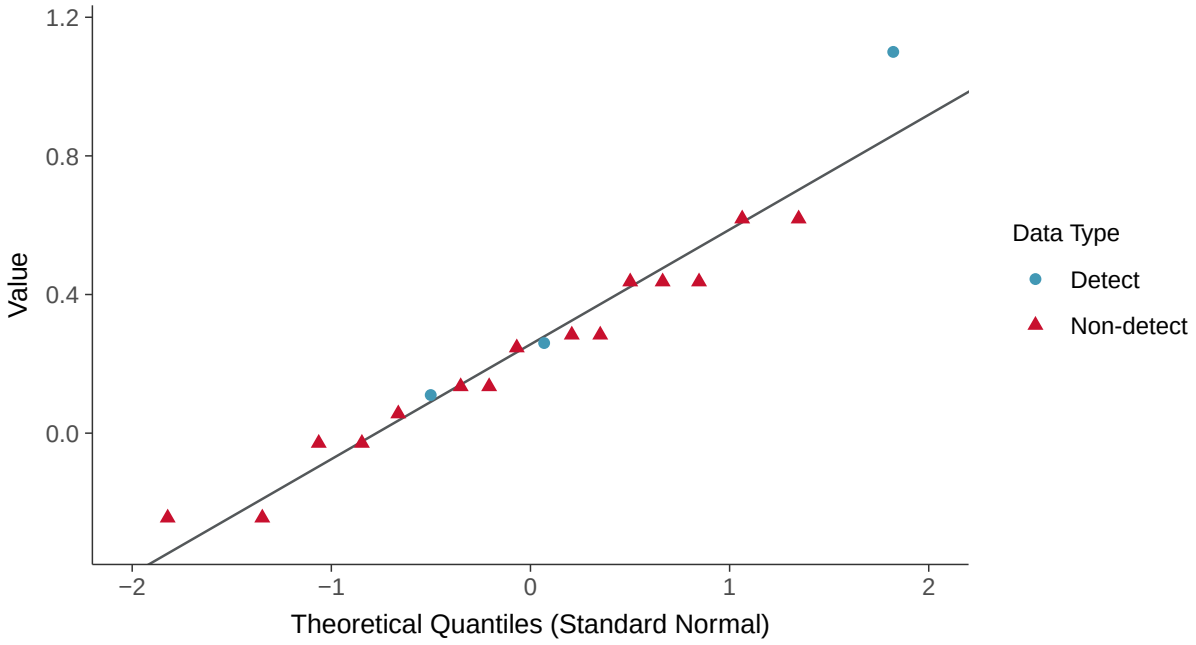
Boxplot by Season

Selenium, MW-17002 (ug/L)



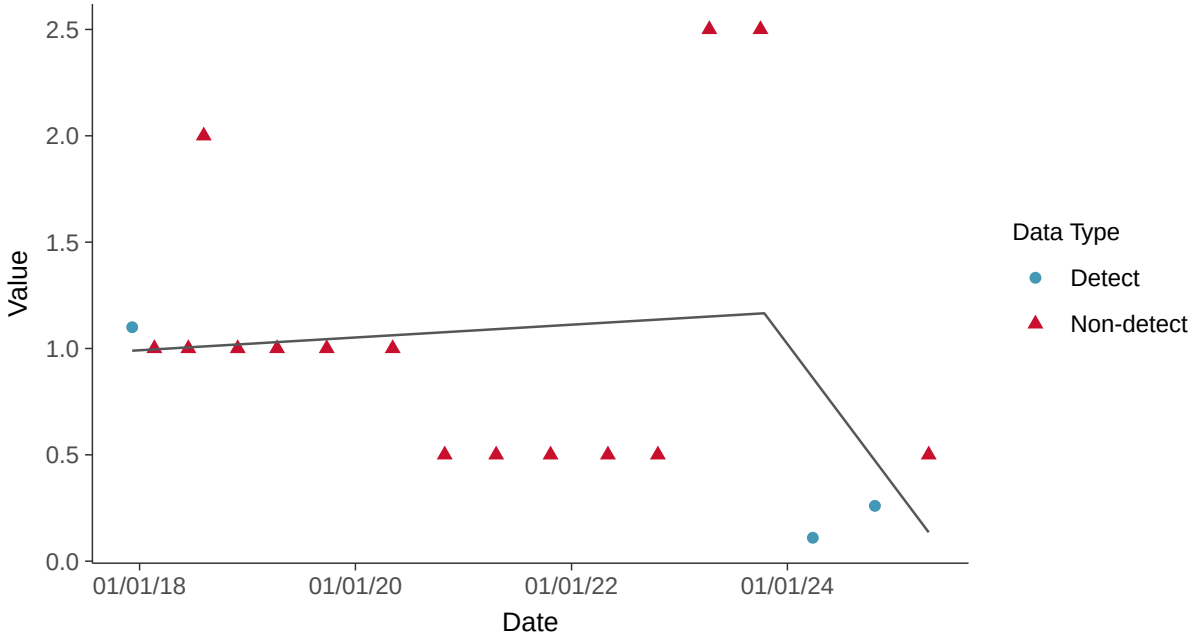
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-17002 (ug/L)



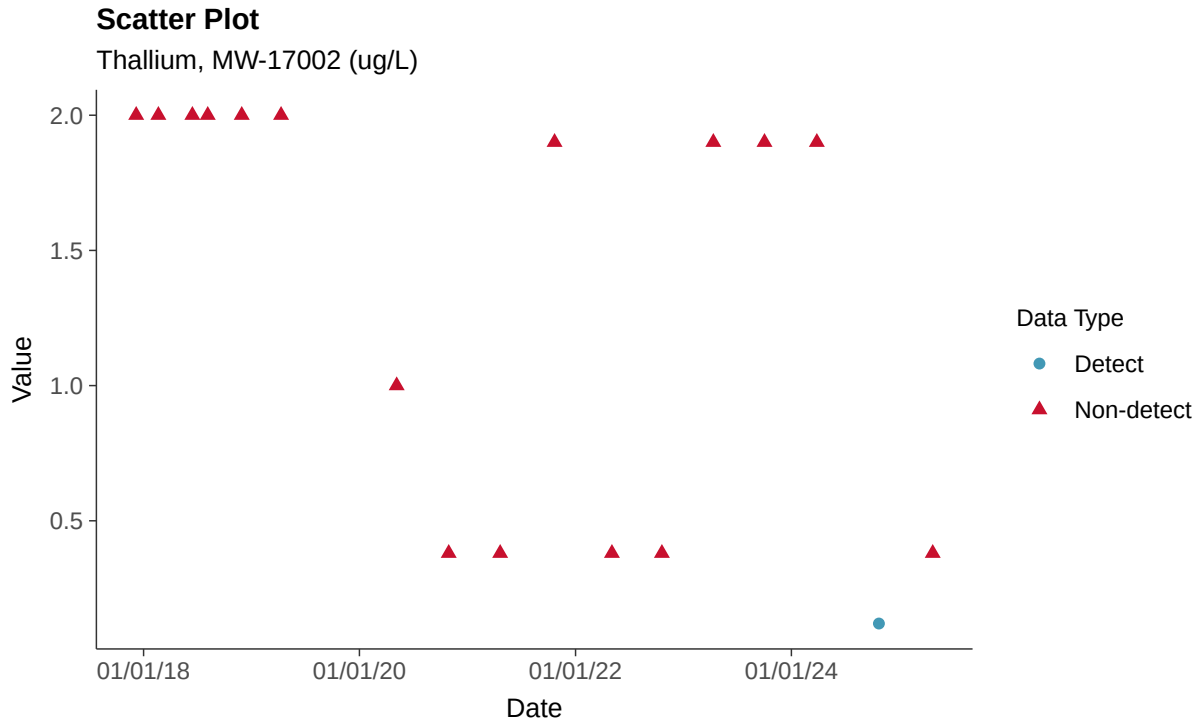
Trend Regression: Piecewise Linear-Linear

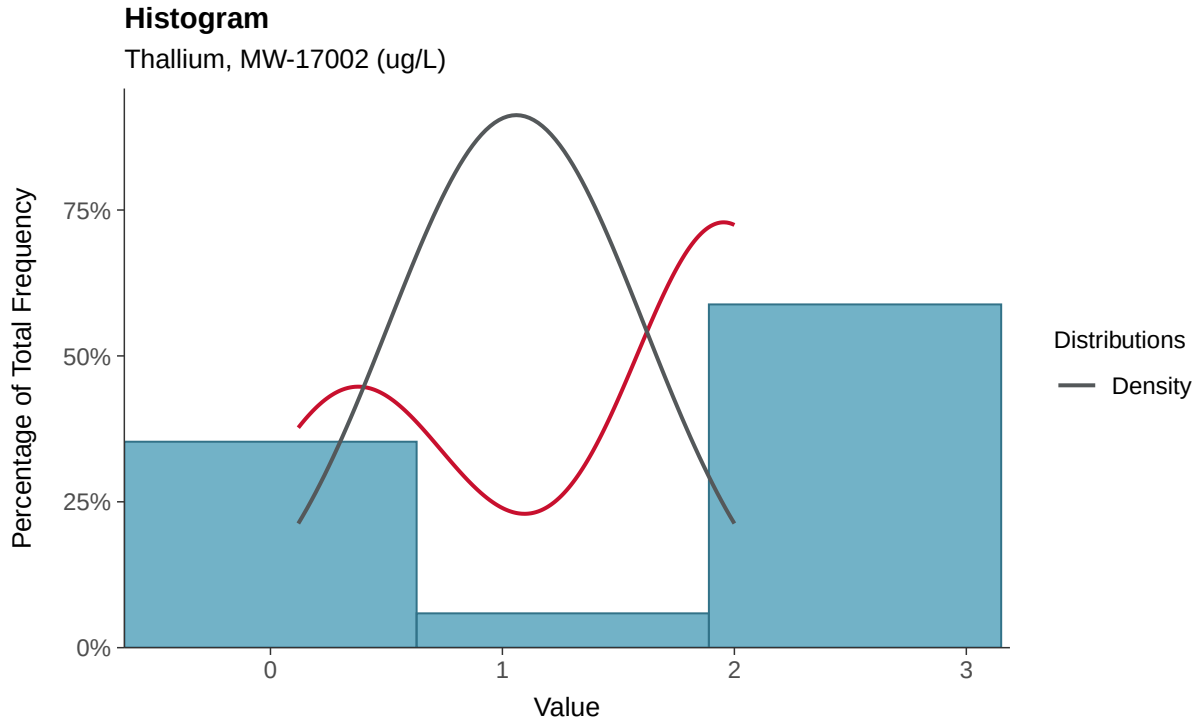
Selenium, MW-17002 (ug/L)



Appendix IV: Thallium, MW-17002

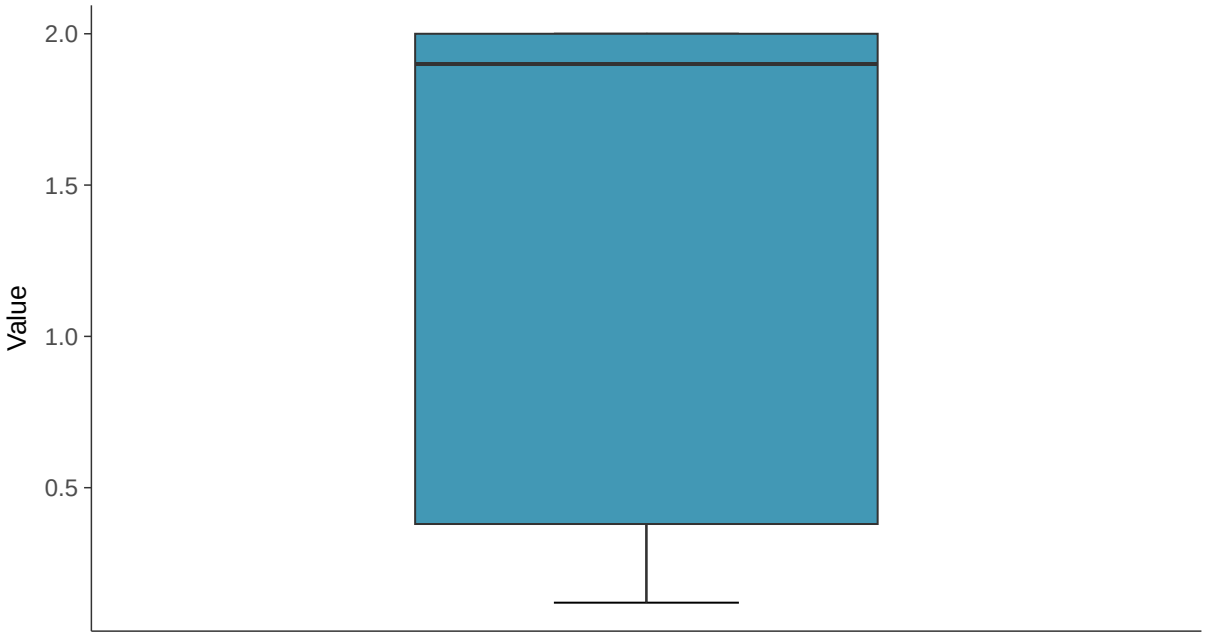
ID: 15_2_131





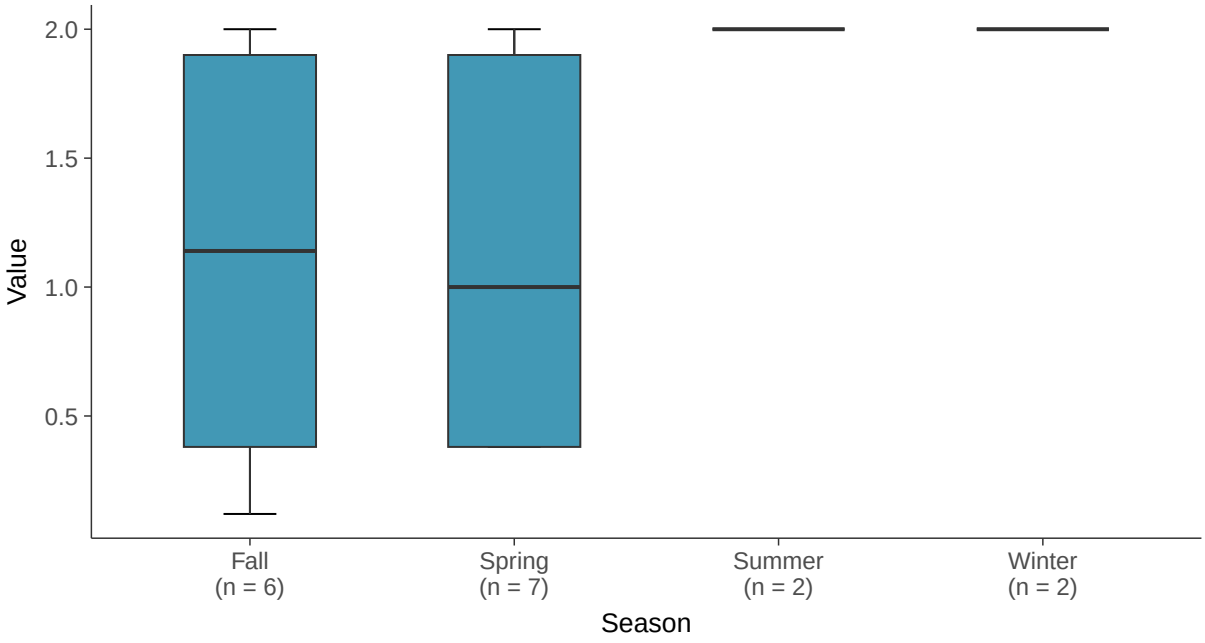
Boxplot

Thallium, MW-17002 (ug/L)



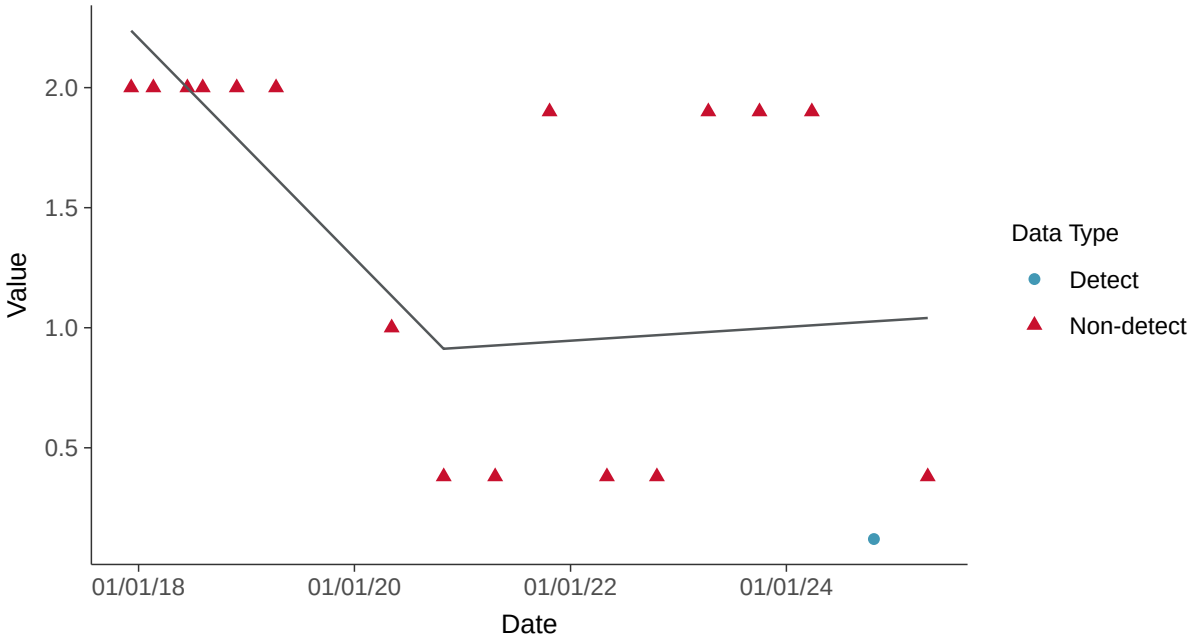
Boxplot by Season

Thallium, MW-17002 (ug/L)



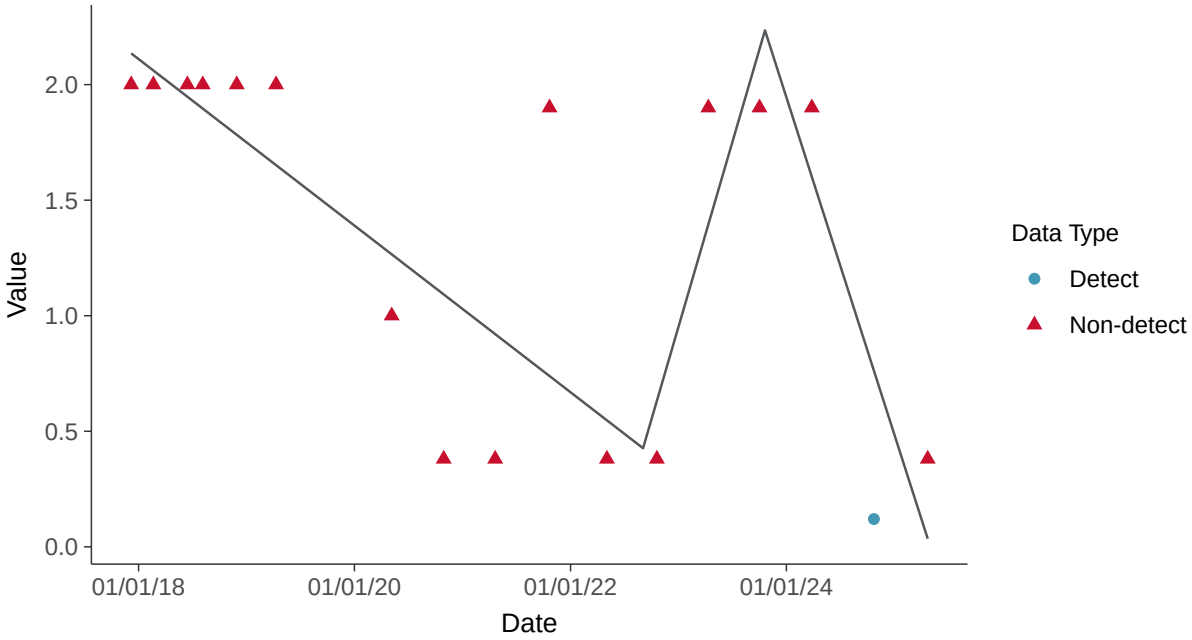
Trend Regression: Piecewise Linear-Linear

Thallium, MW-17002 (ug/L)



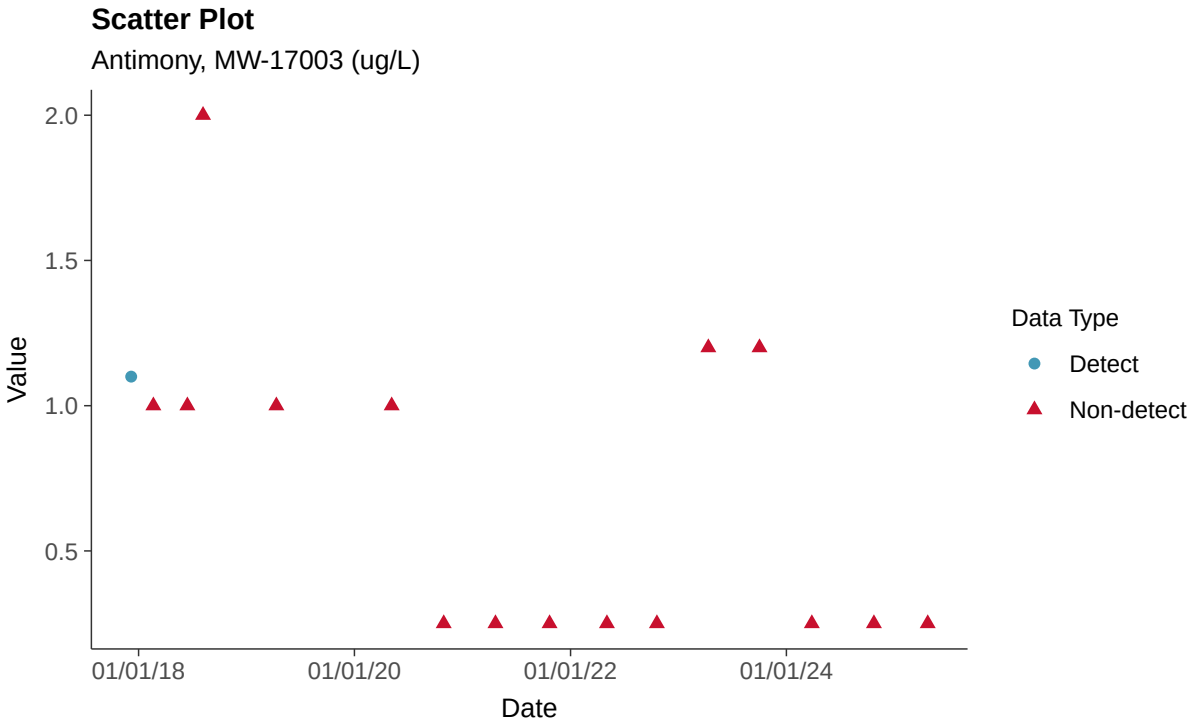
Trend Regression: Piecewise Linear-Linear-Linear

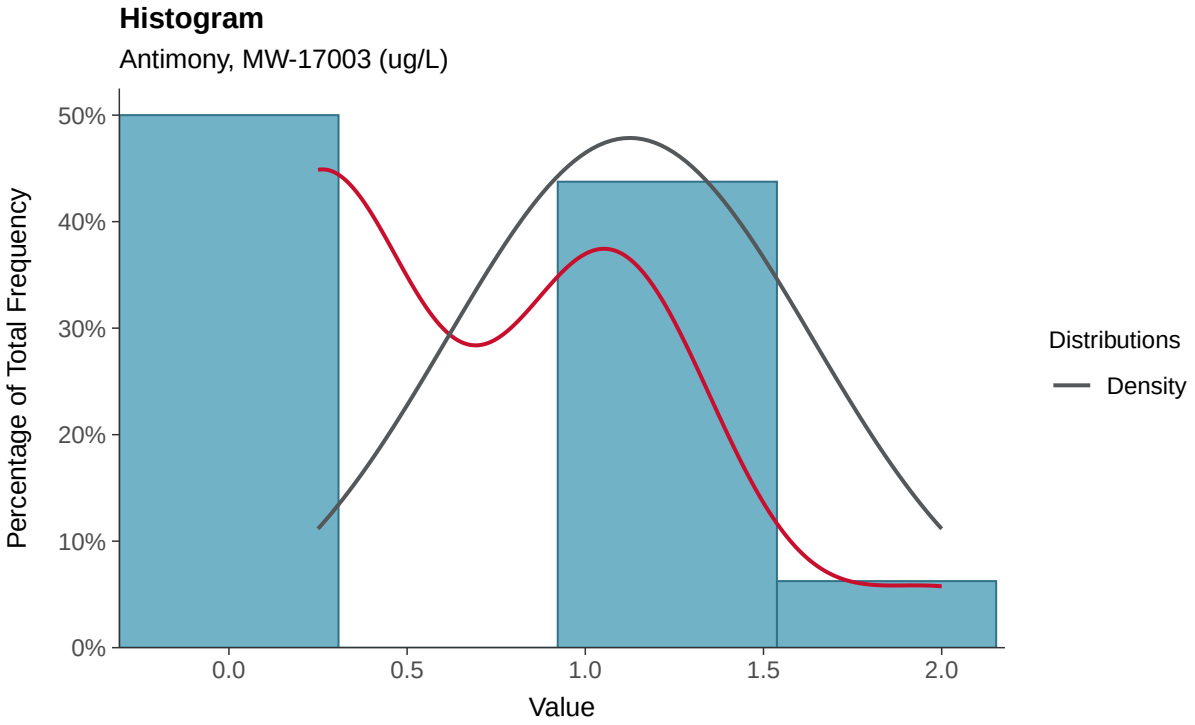
Thallium, MW-17002 (ug/L)



Appendix IV: Antimony, MW-17003

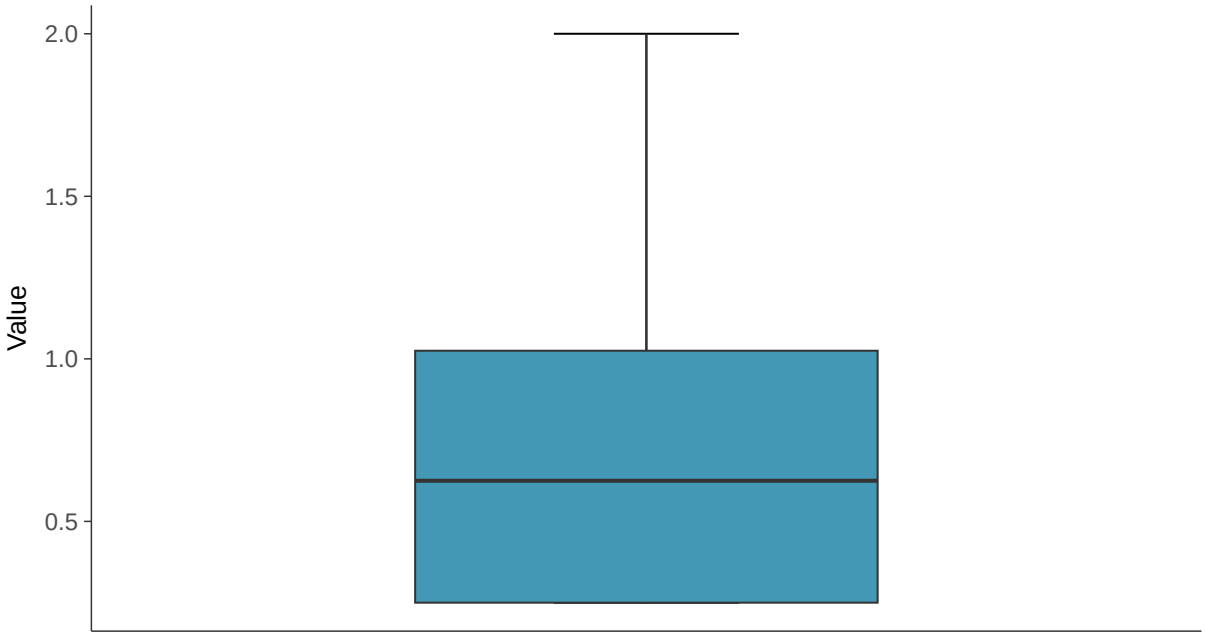
ID: 16_2_101





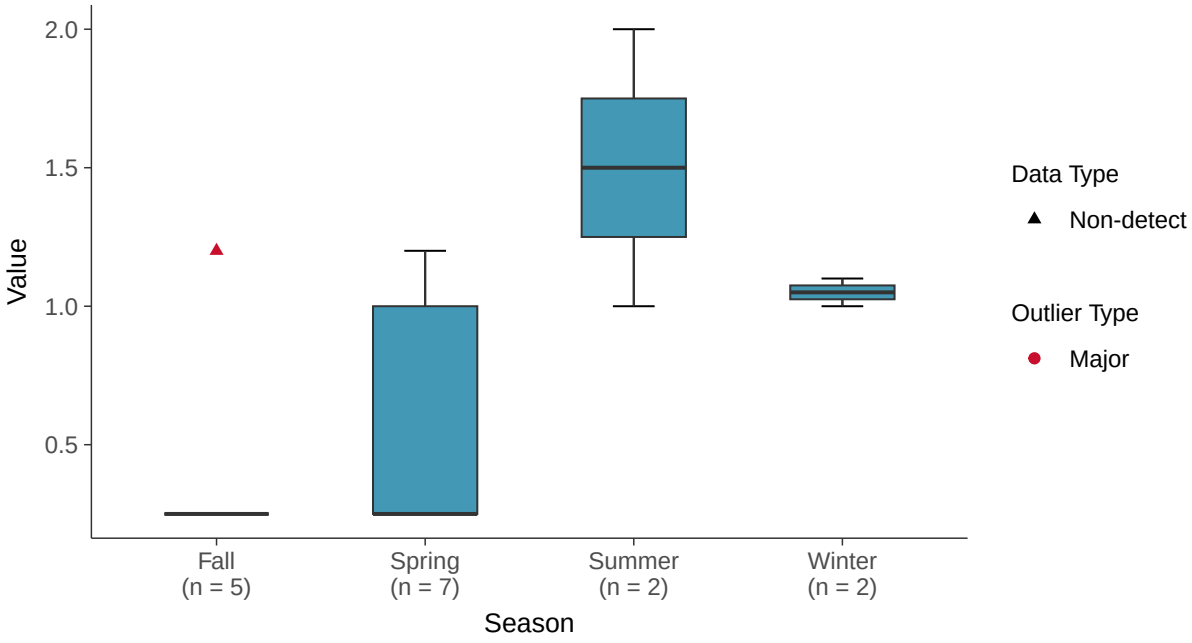
Boxplot

Antimony, MW-17003 (ug/L)



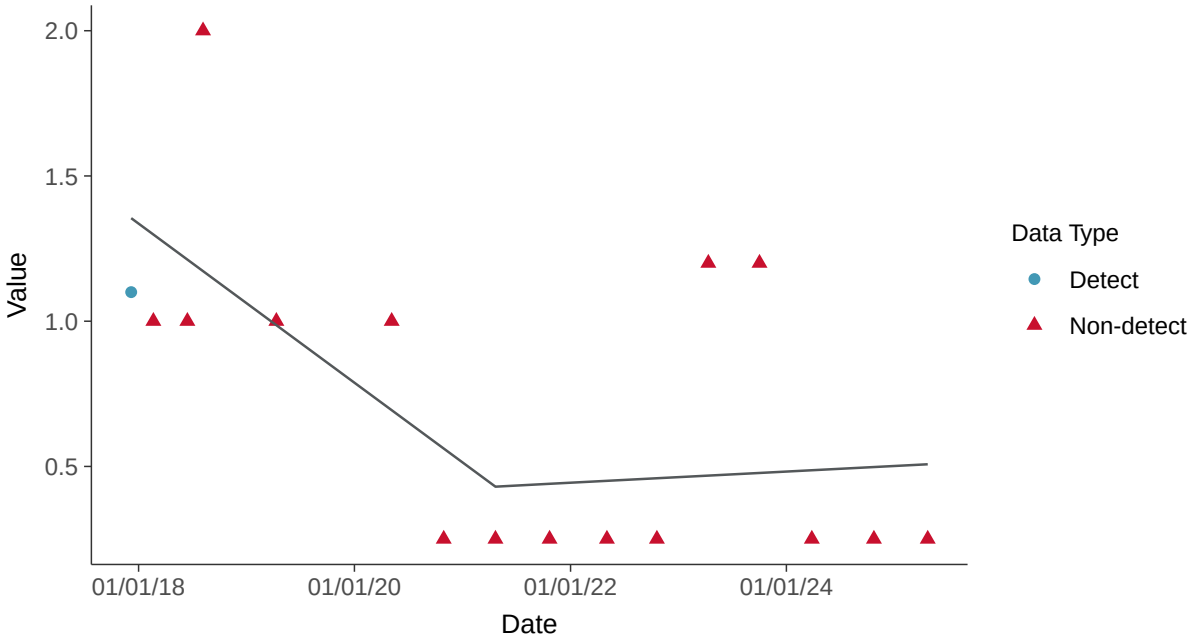
Boxplot by Season

Antimony, MW-17003 (ug/L)



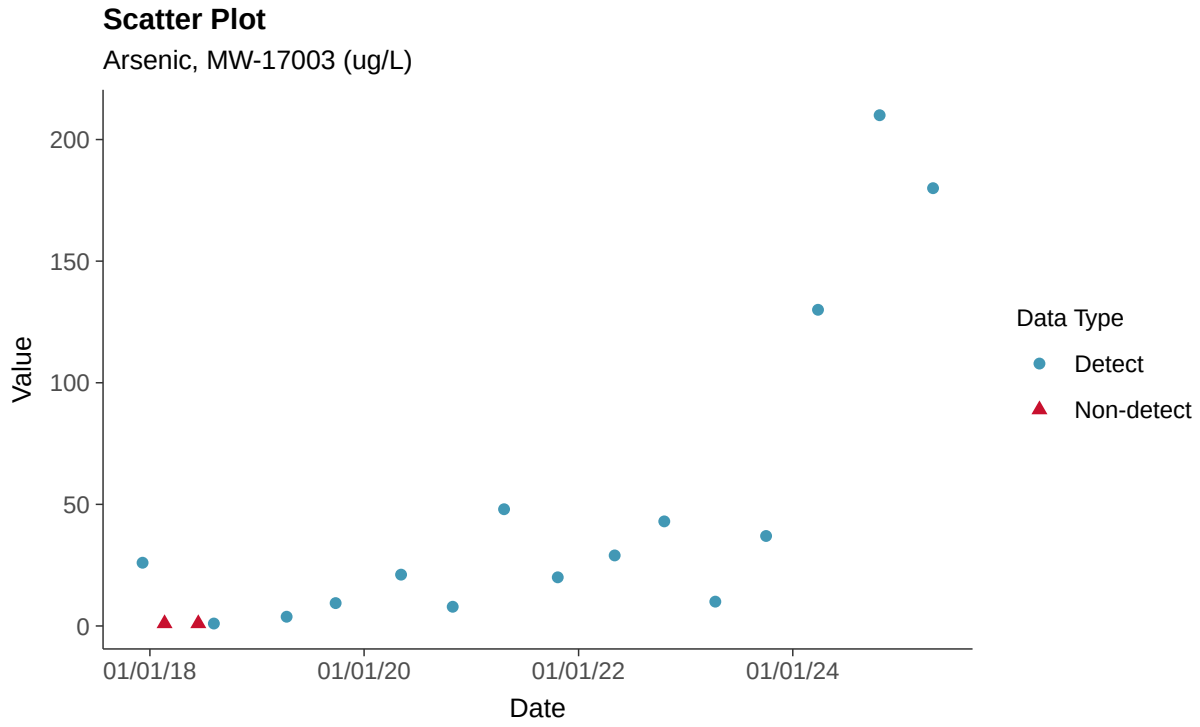
Trend Regression: Piecewise Linear-Linear

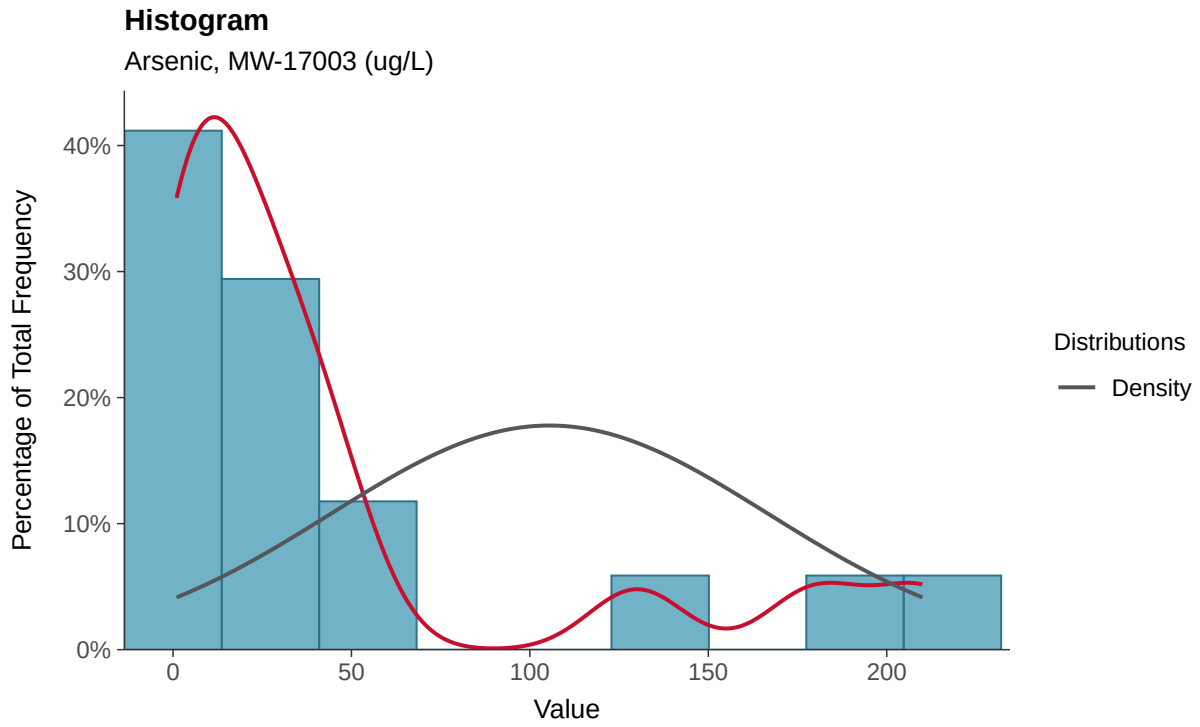
Antimony, MW-17003 (ug/L)



Appendix IV: Arsenic, MW-17003

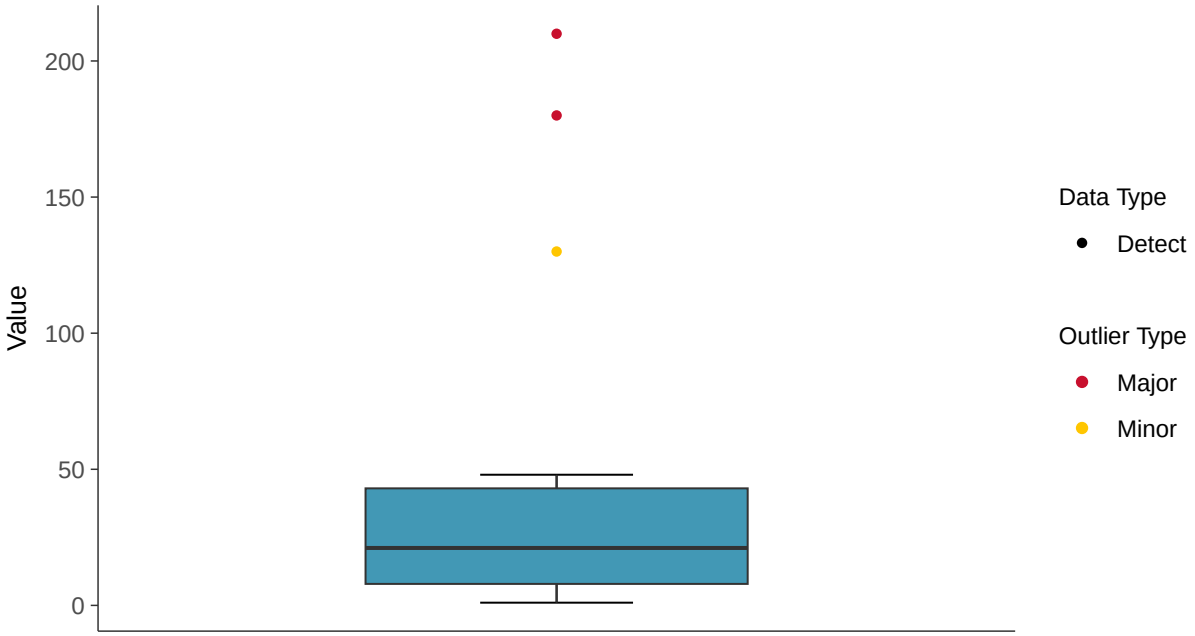
ID: 16_2_102





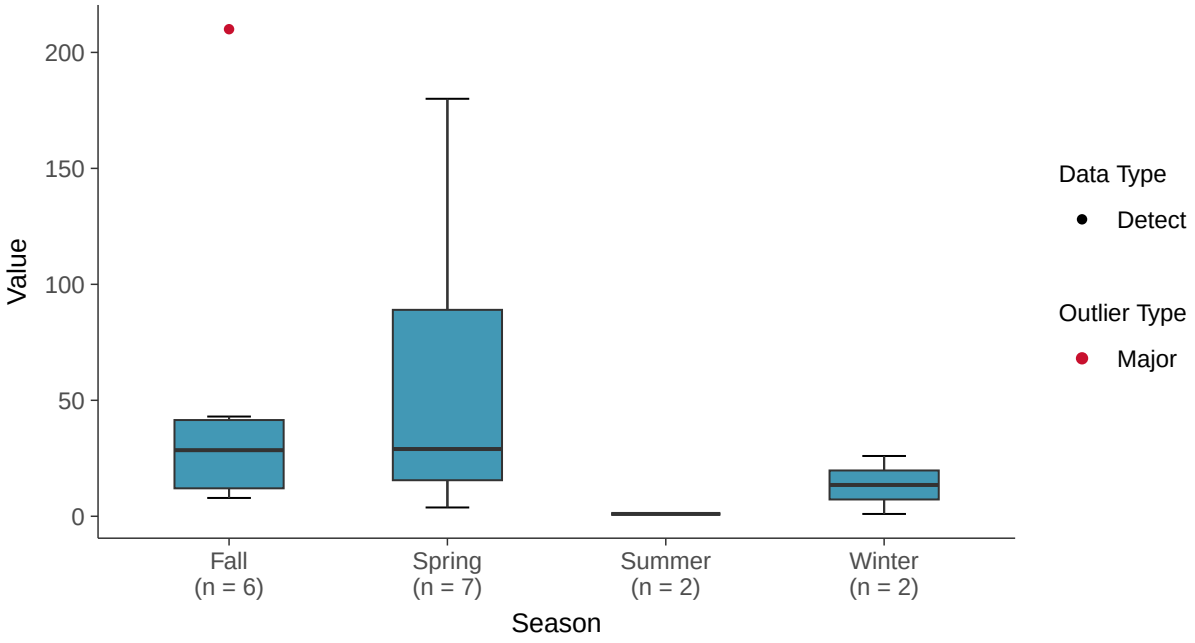
Boxplot

Arsenic, MW-17003 (ug/L)



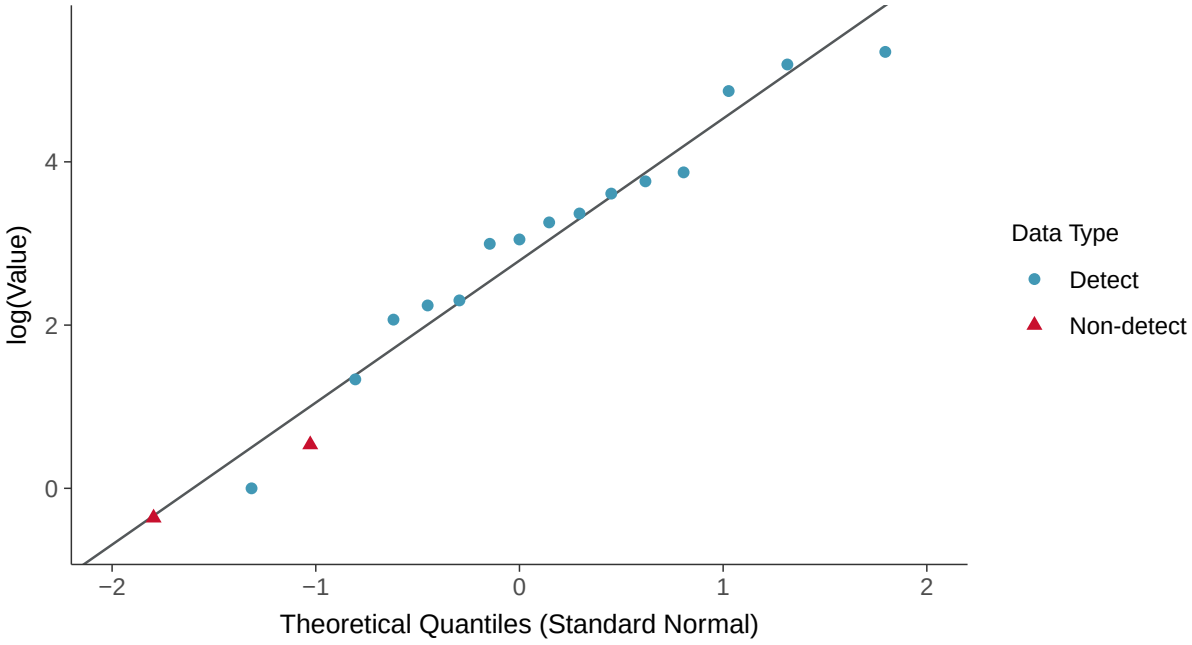
Boxplot by Season

Arsenic, MW-17003 (ug/L)



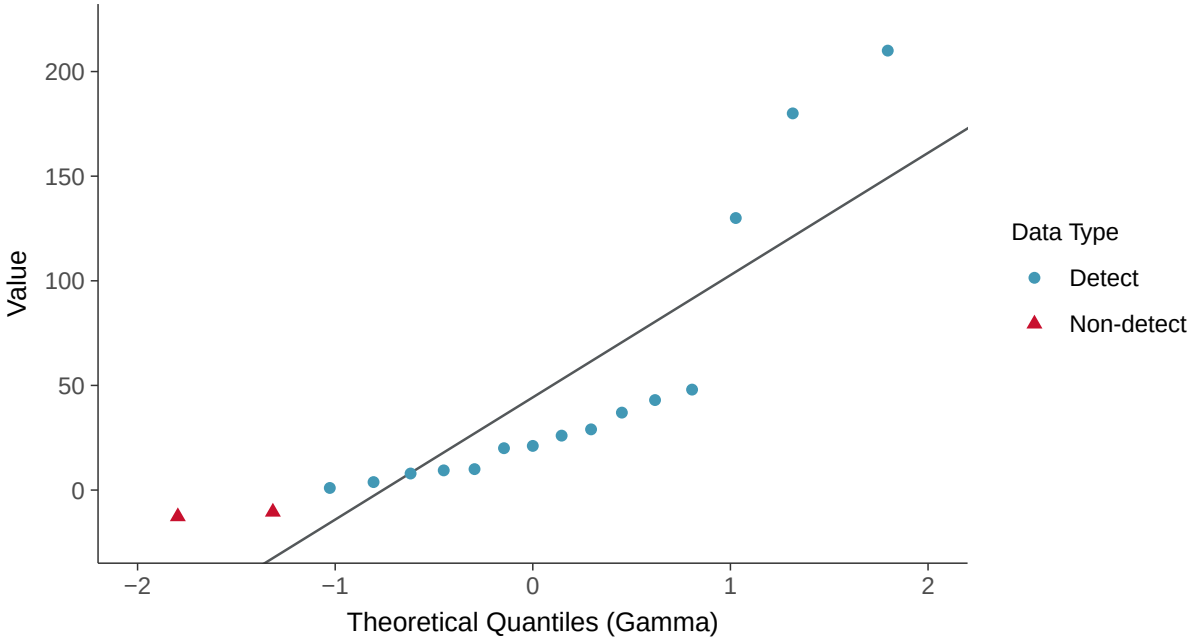
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-17003 (ug/L)



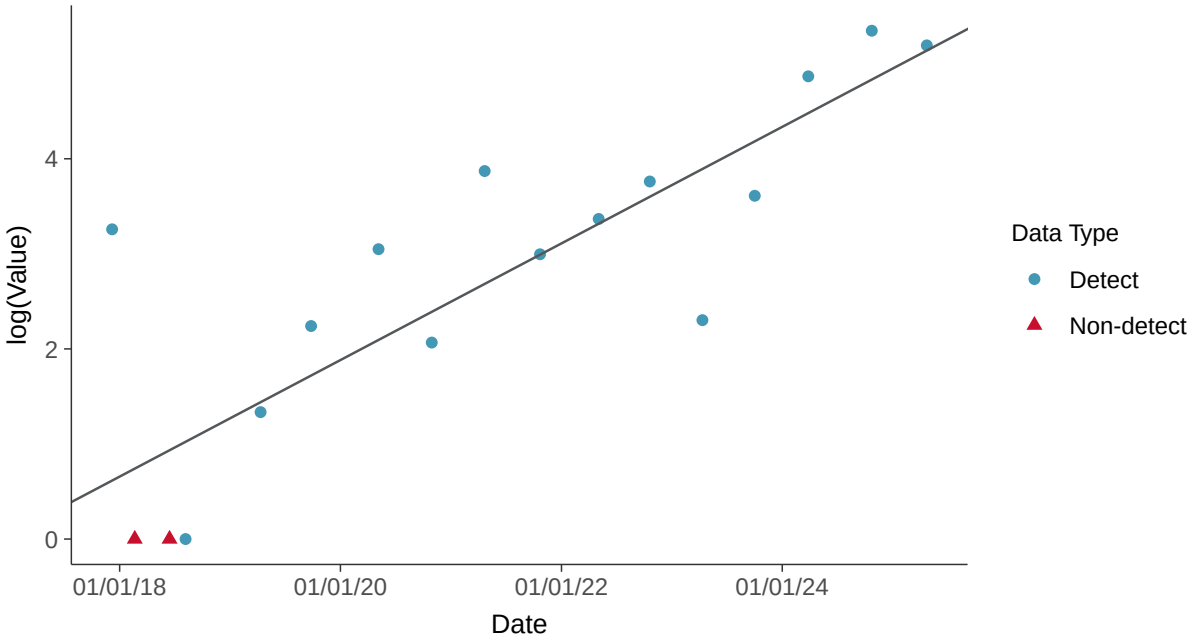
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-17003 (ug/L)



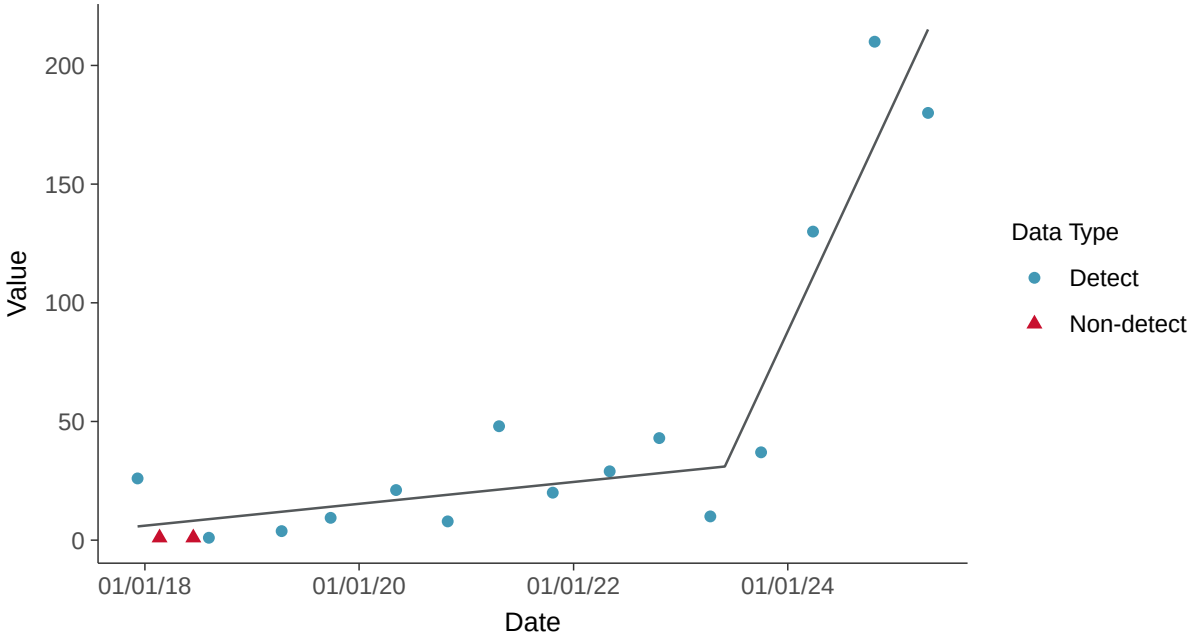
Trend Regression: Lognormal MLE

Arsenic, MW-17003 (ug/L)



Trend Regression: Piecewise Linear-Linear

Arsenic, MW-17003 (ug/L)

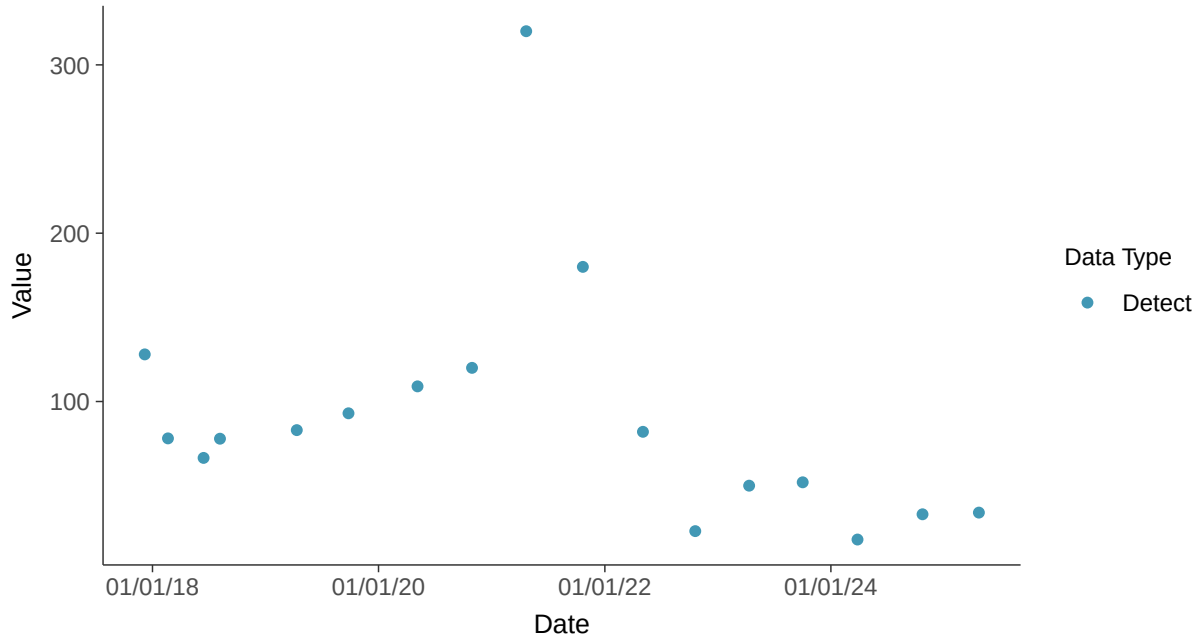


Appendix IV: Barium, MW-17003

ID: 16_2_103

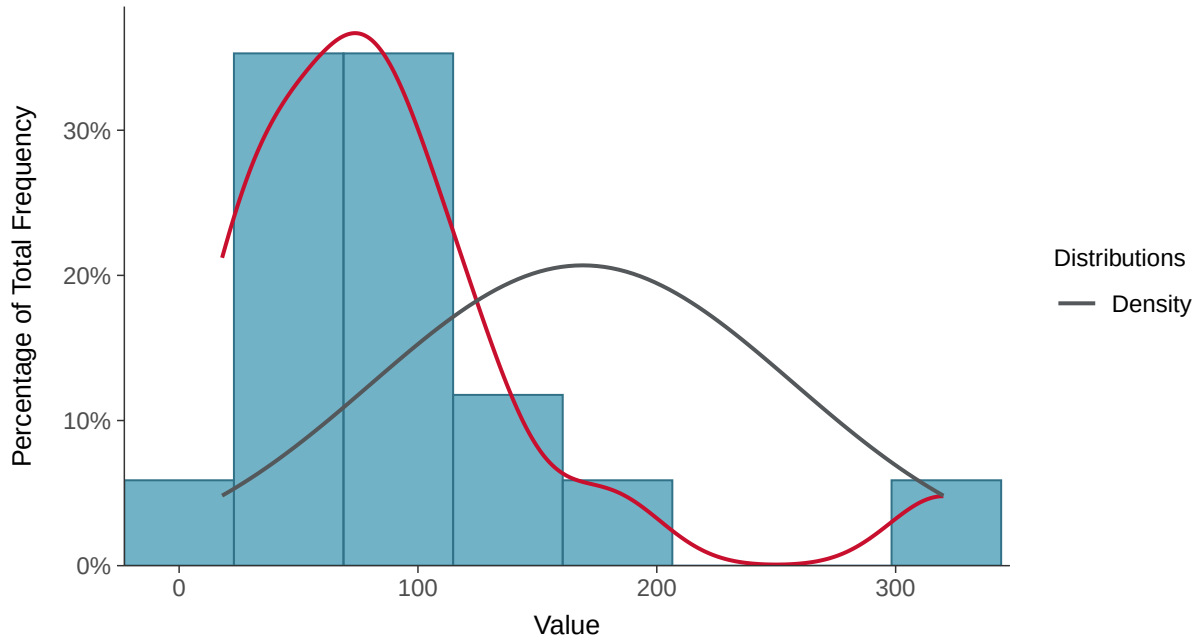
Scatter Plot

Barium, MW-17003 (ug/L)



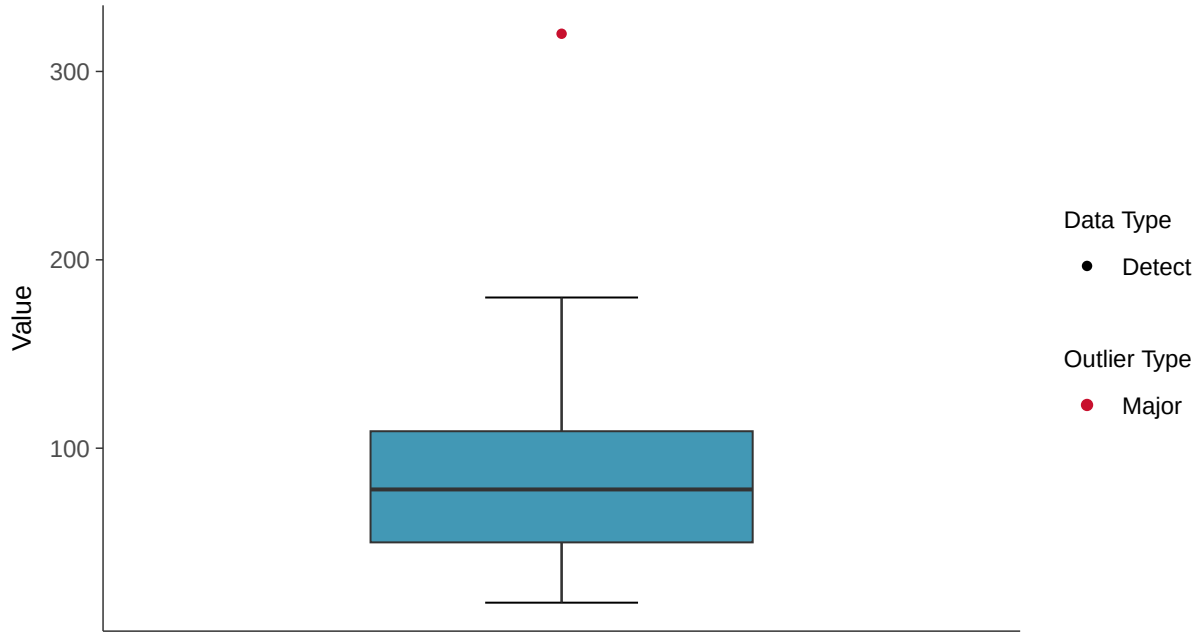
Histogram

Barium, MW-17003 (ug/L)



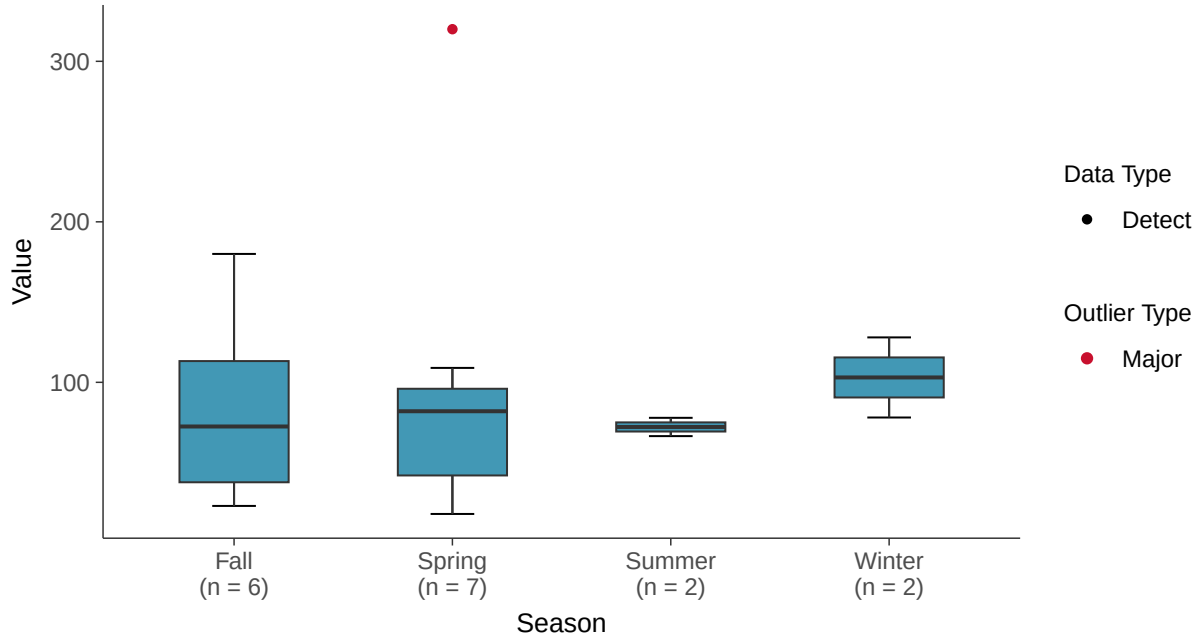
Boxplot

Barium, MW-17003 (ug/L)



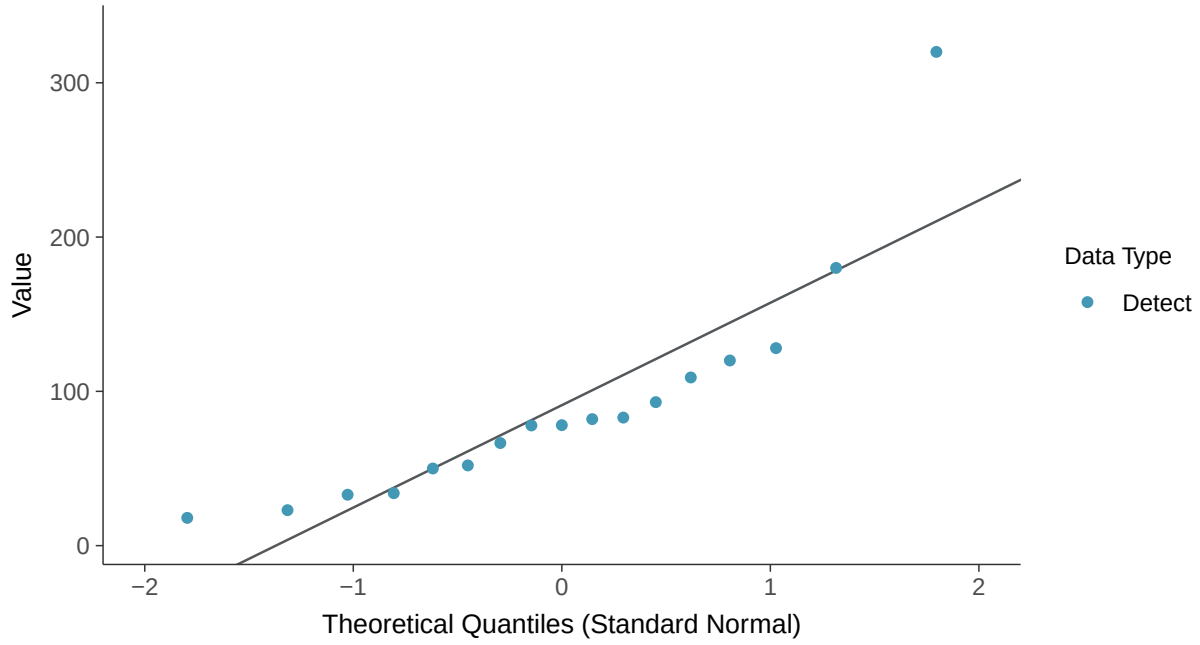
Boxplot by Season

Barium, MW-17003 (ug/L)



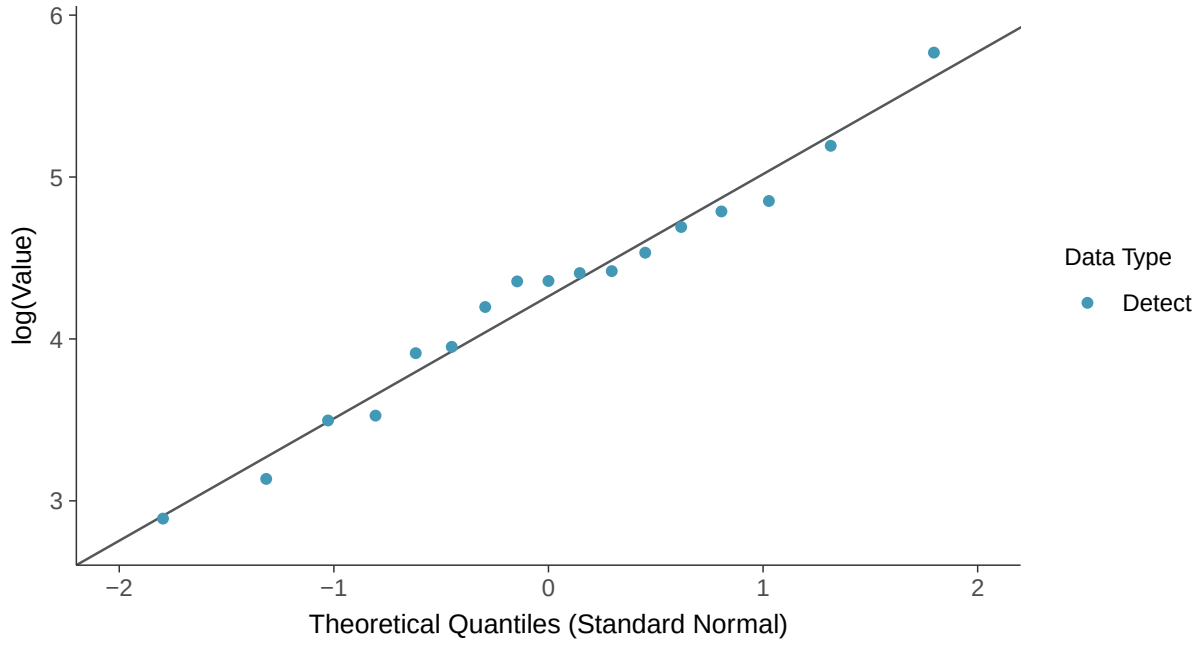
Normal Q-Q plot

Barium, MW-17003 (ug/L)



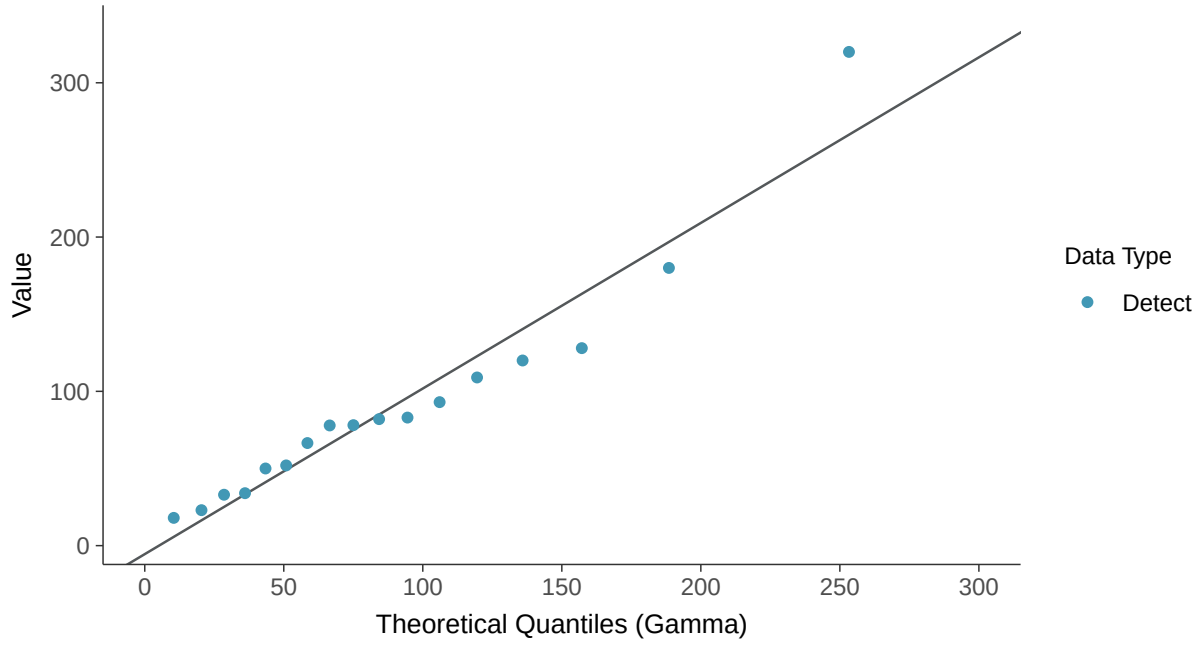
Lognormal Q-Q plot

Barium, MW-17003 (ug/L)



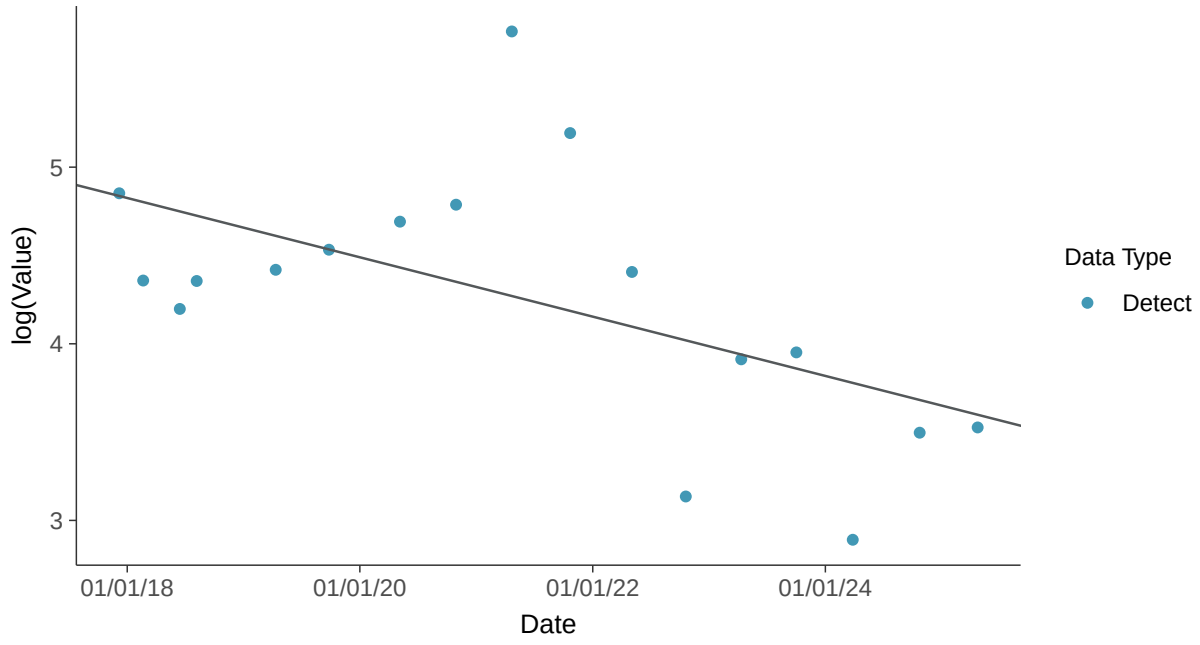
Gamma Q-Q plot

Barium, MW-17003 (ug/L)



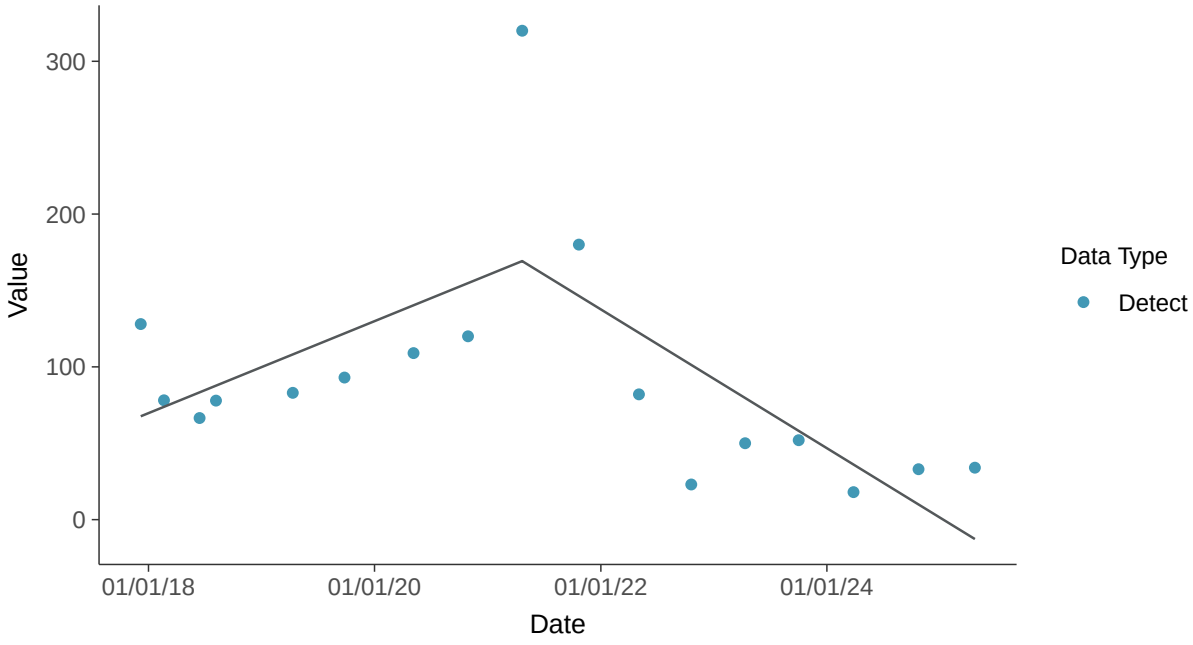
Trend Regression: Lognormal MLE

Barium, MW-17003 (ug/L)



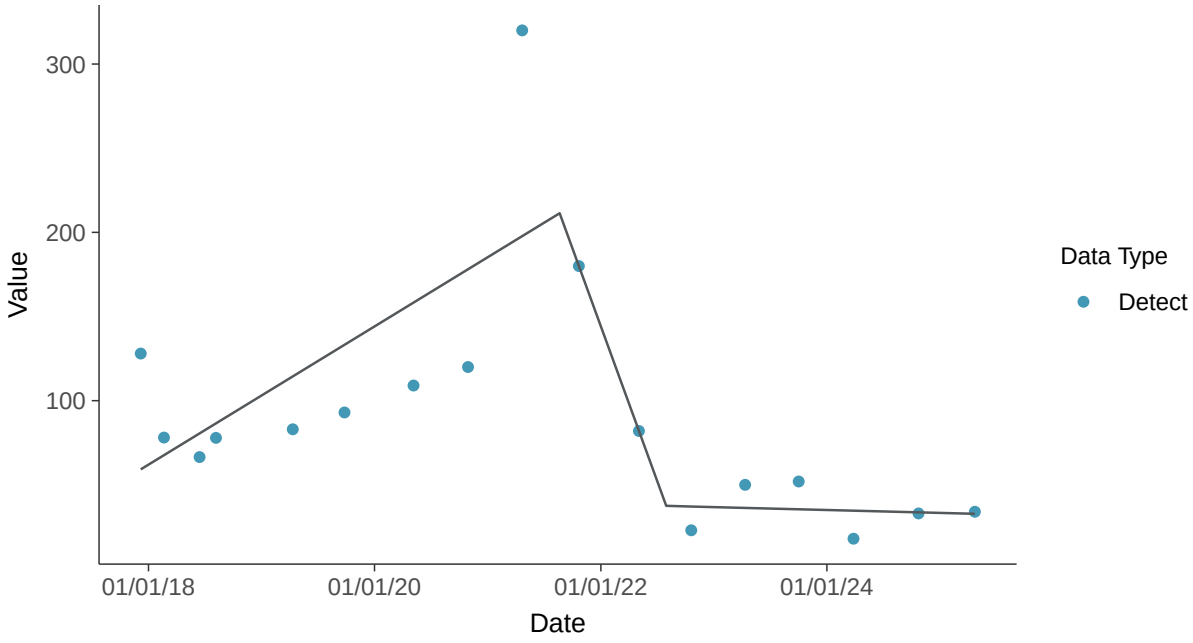
Trend Regression: Piecewise Linear-Linear

Barium, MW-17003 (ug/L)



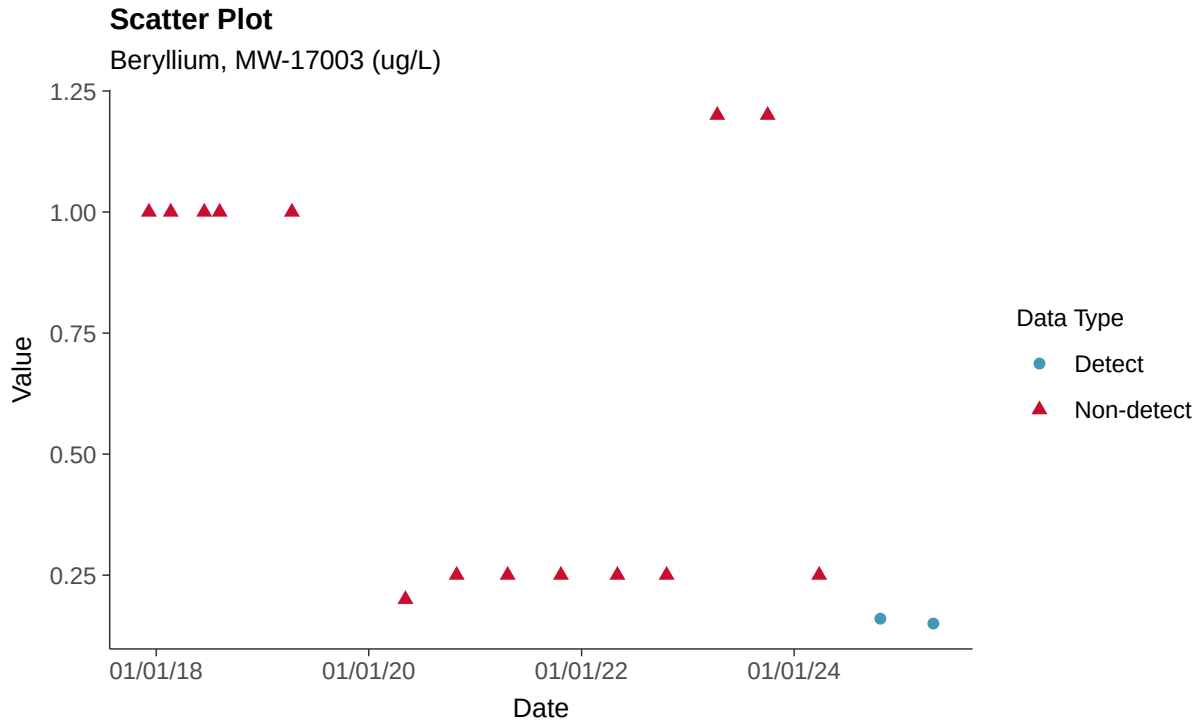
Trend Regression: Piecewise Linear-Linear-Linear

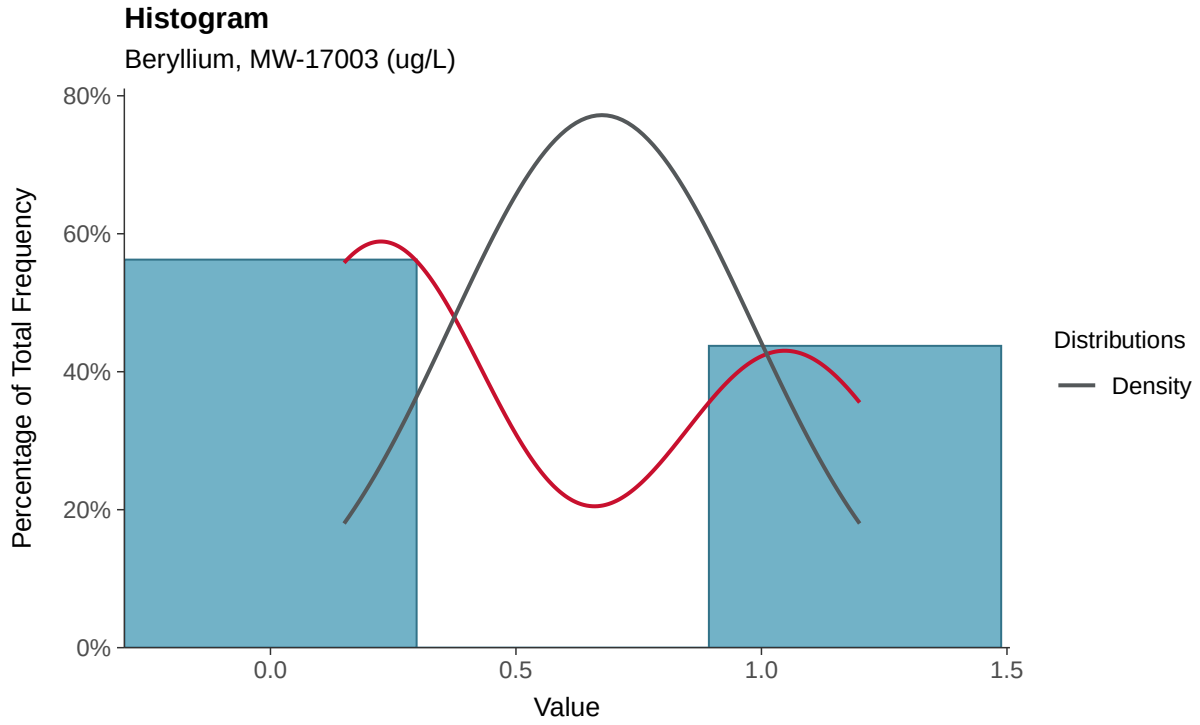
Barium, MW-17003 (ug/L)



Appendix IV: Beryllium, MW-17003

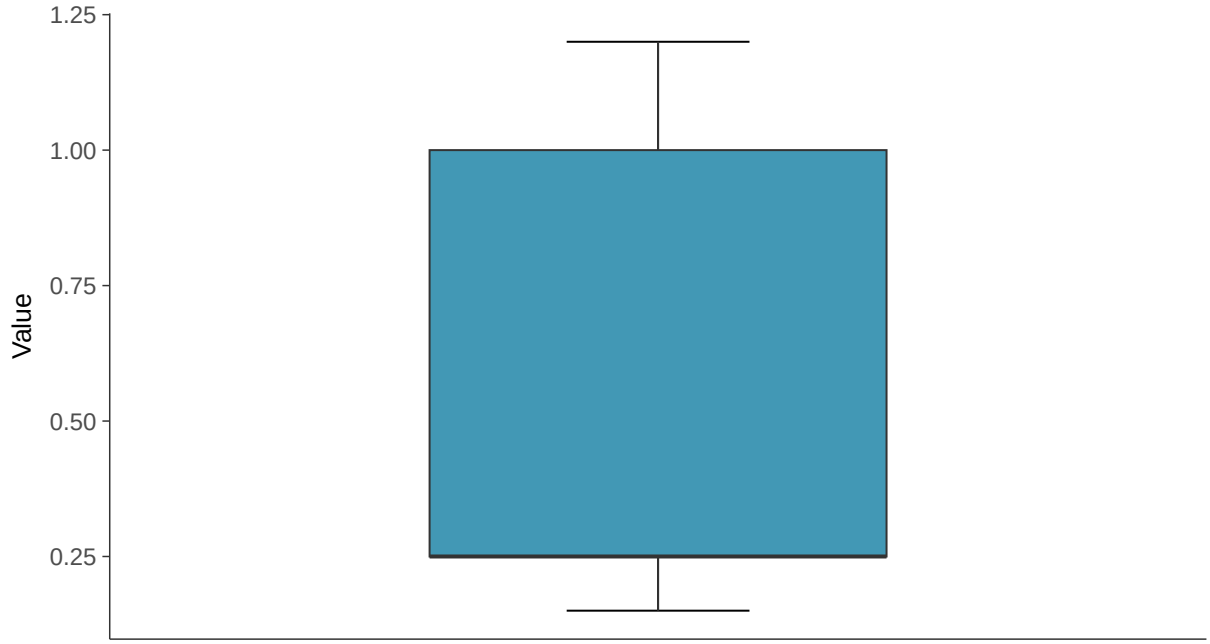
ID: 16_2_104





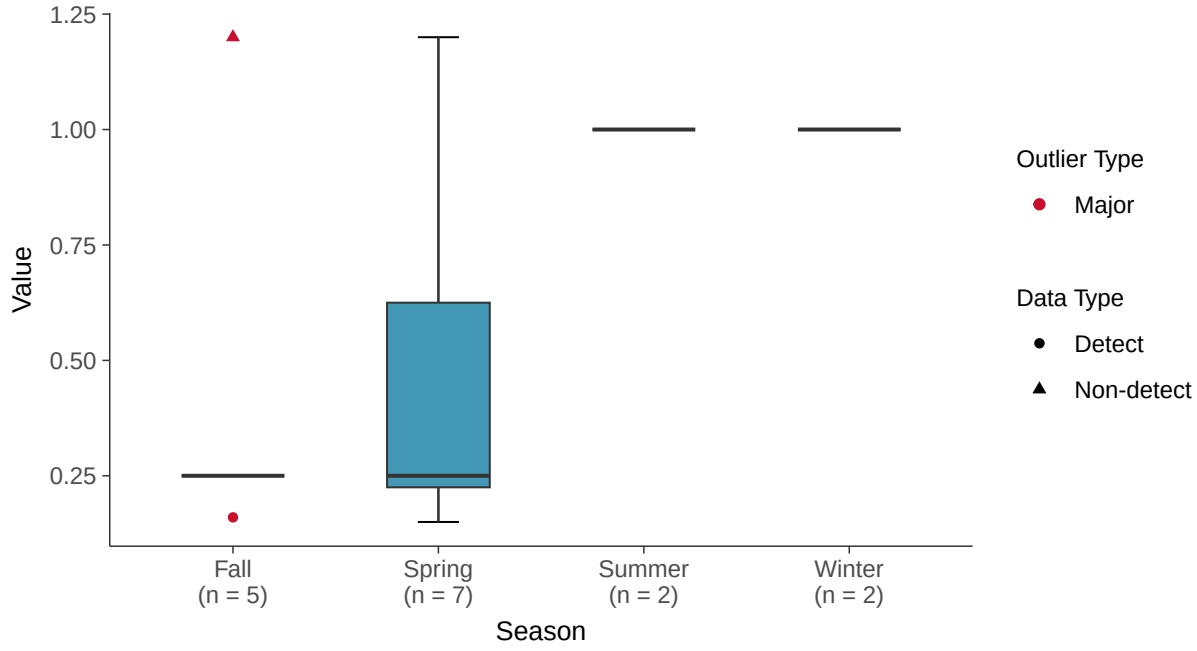
Boxplot

Beryllium, MW-17003 (ug/L)



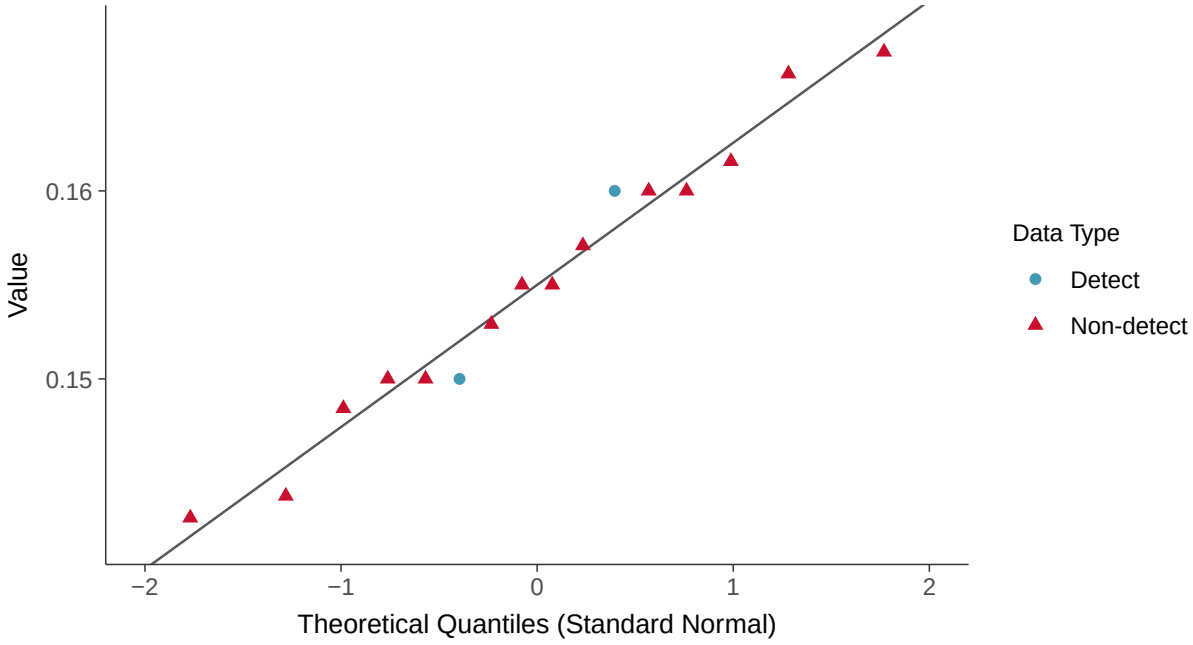
Boxplot by Season

Beryllium, MW-17003 (ug/L)



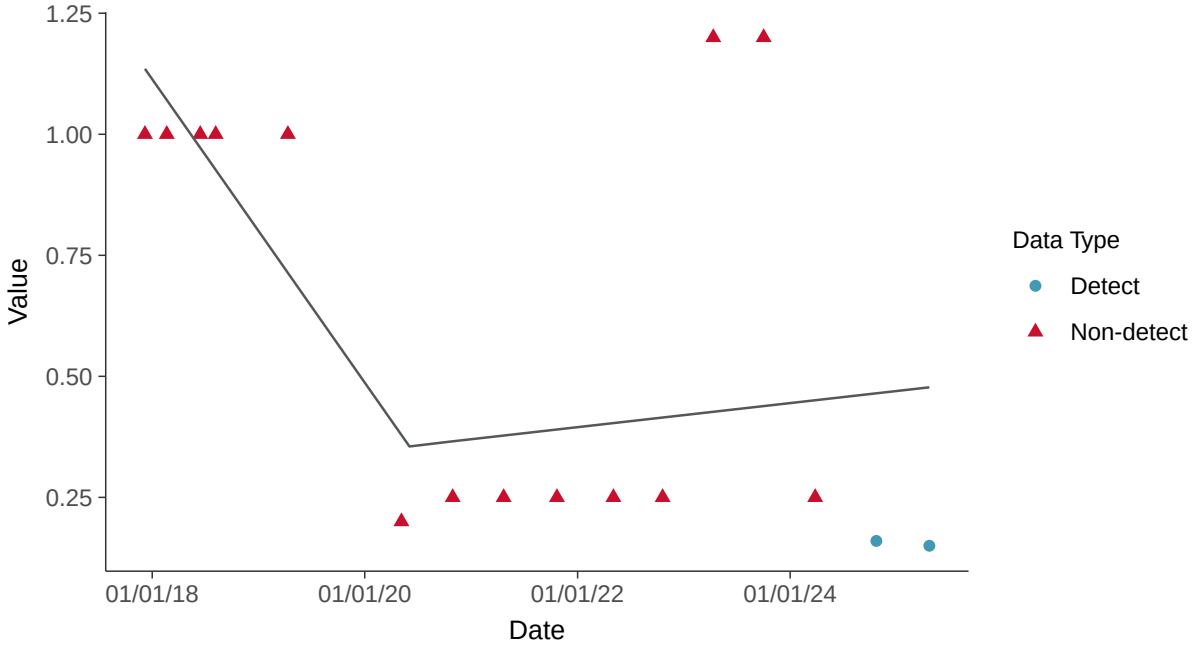
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-17003 (ug/L)



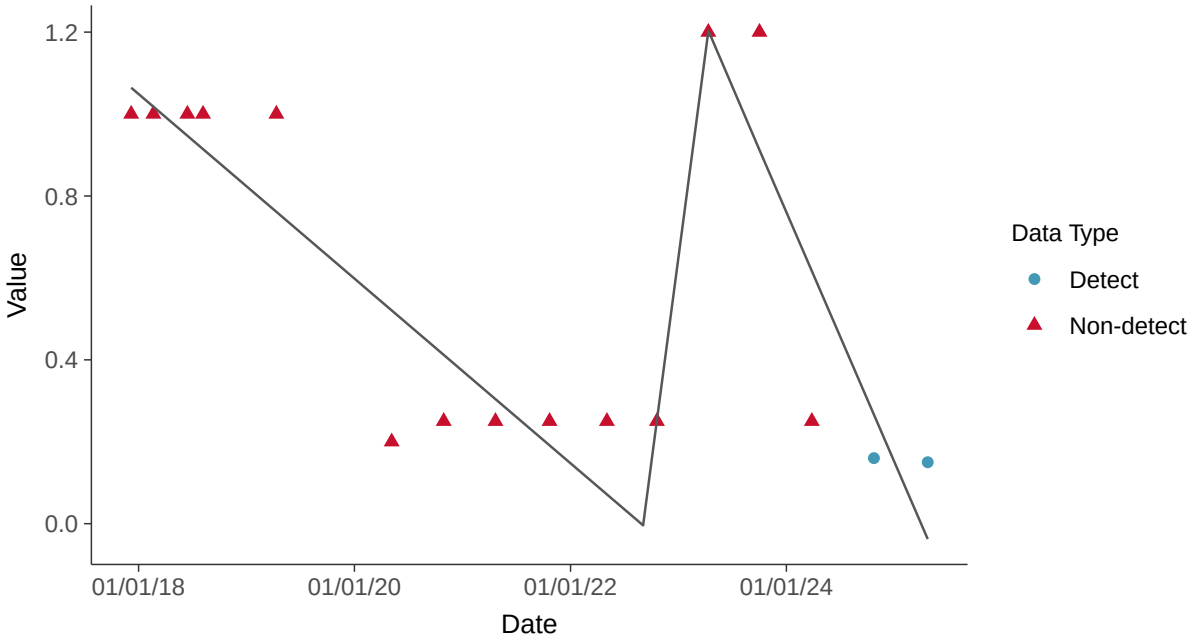
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-17003 (ug/L)



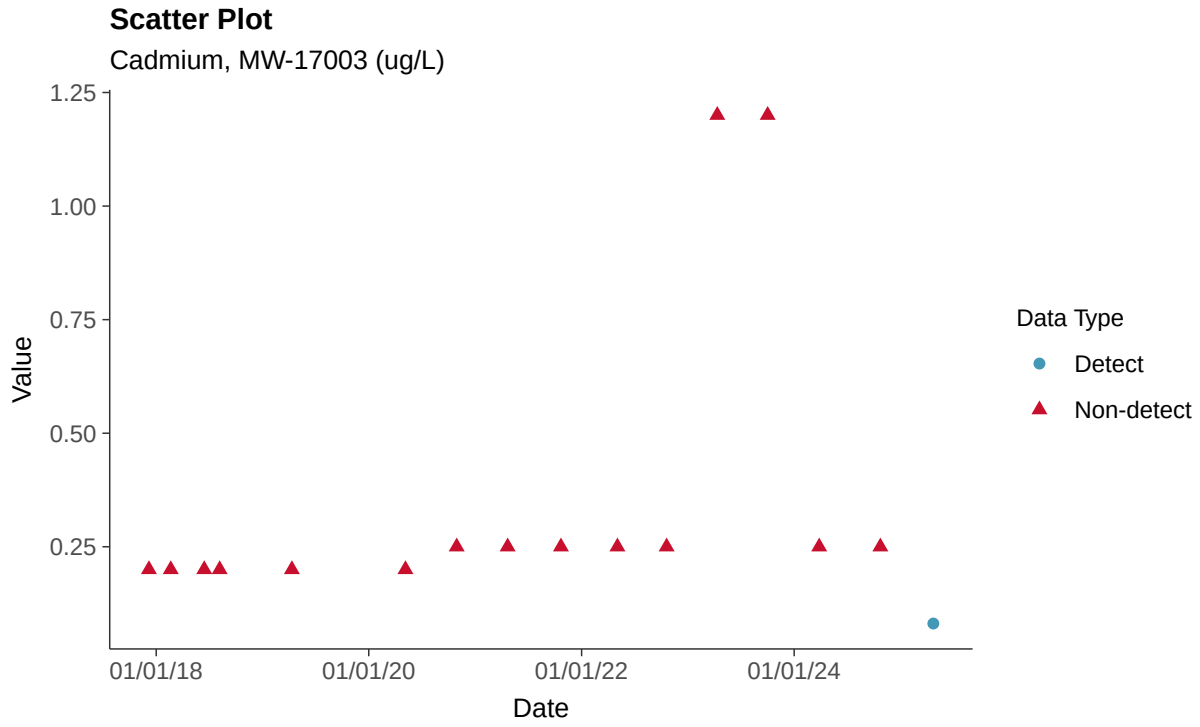
Trend Regression: Piecewise Linear-Linear-Linear

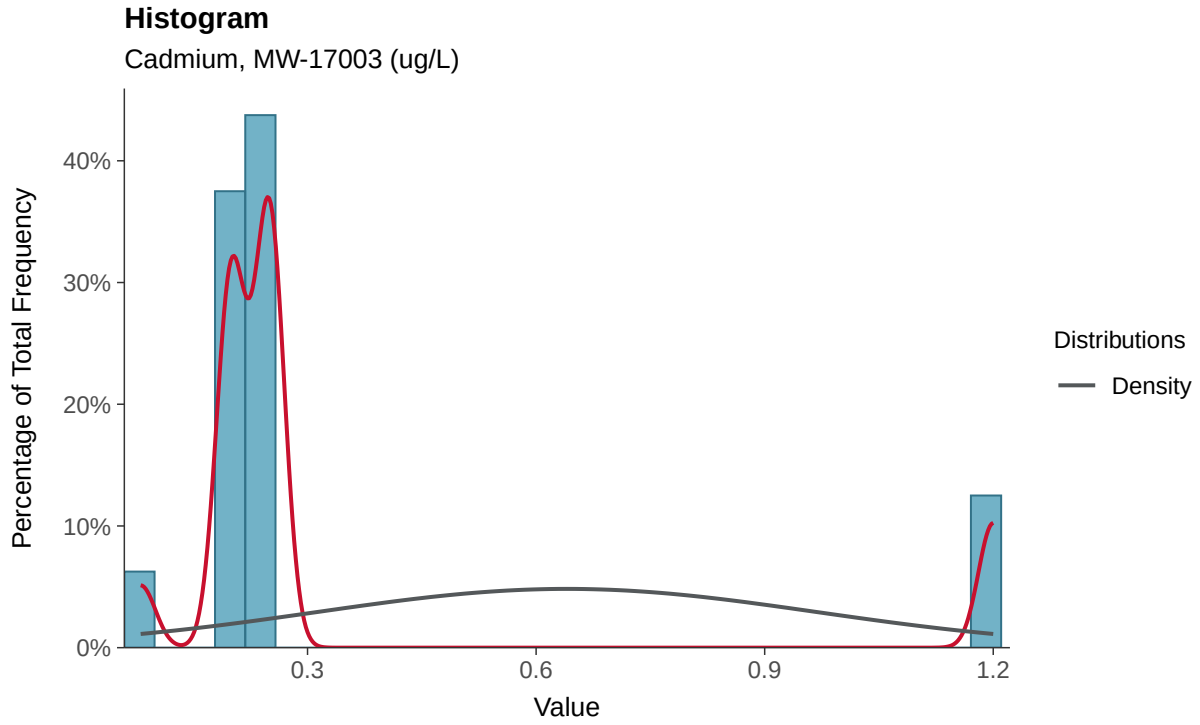
Beryllium, MW-17003 (ug/L)



Appendix IV: Cadmium, MW-17003

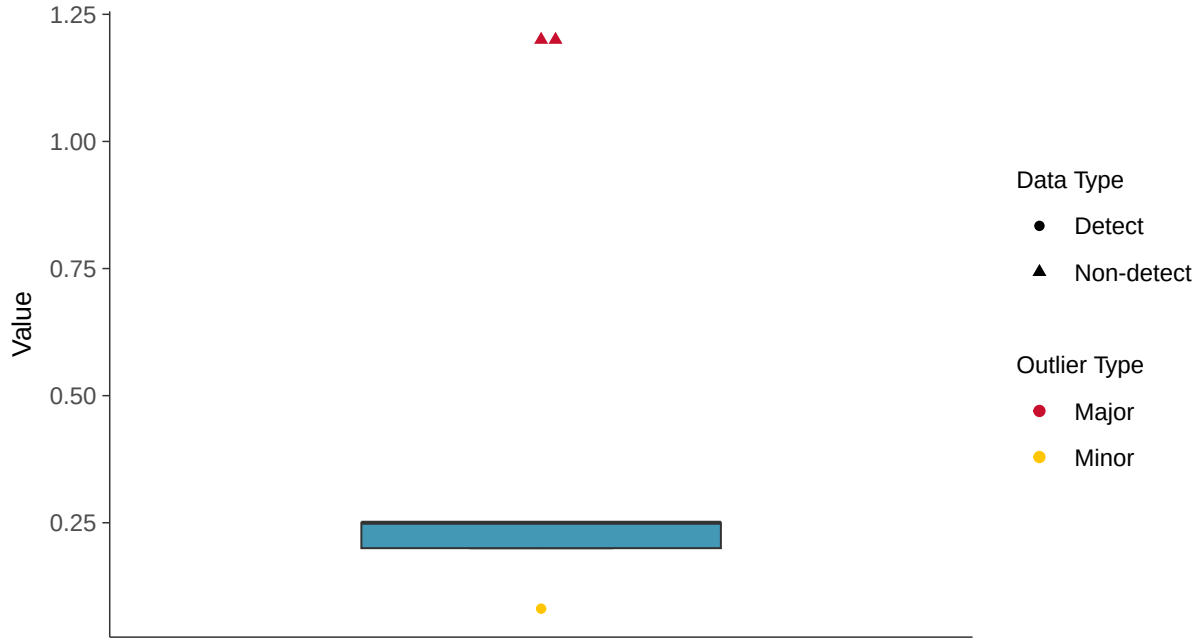
ID: 16_2_106





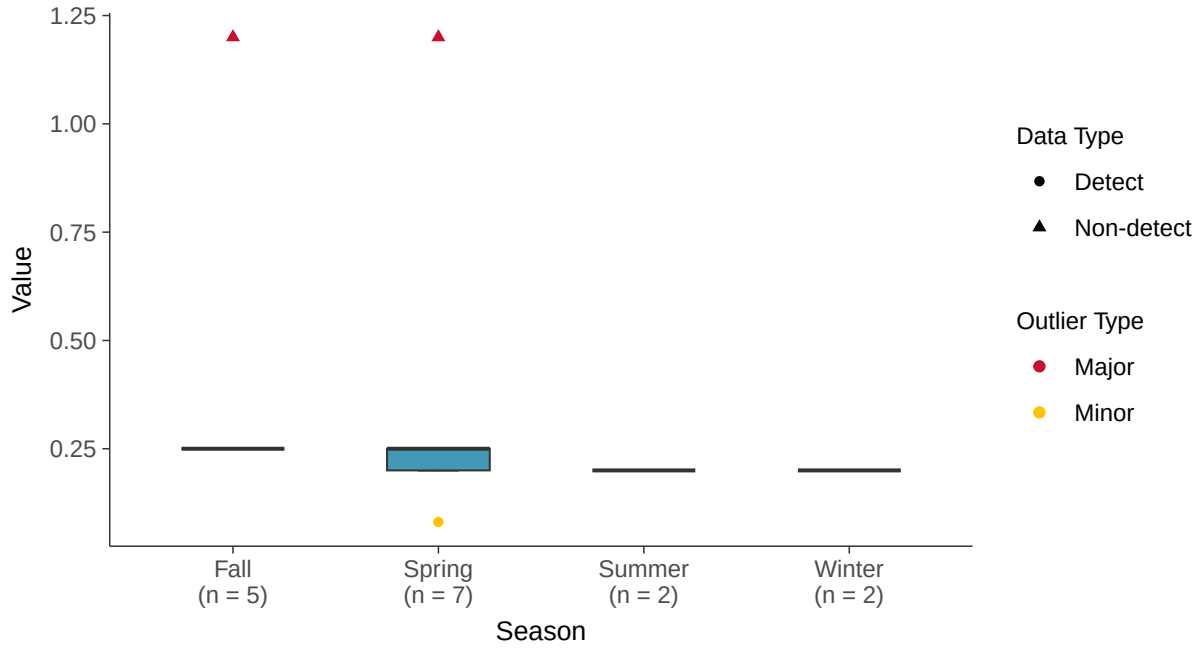
Boxplot

Cadmium, MW-17003 (ug/L)



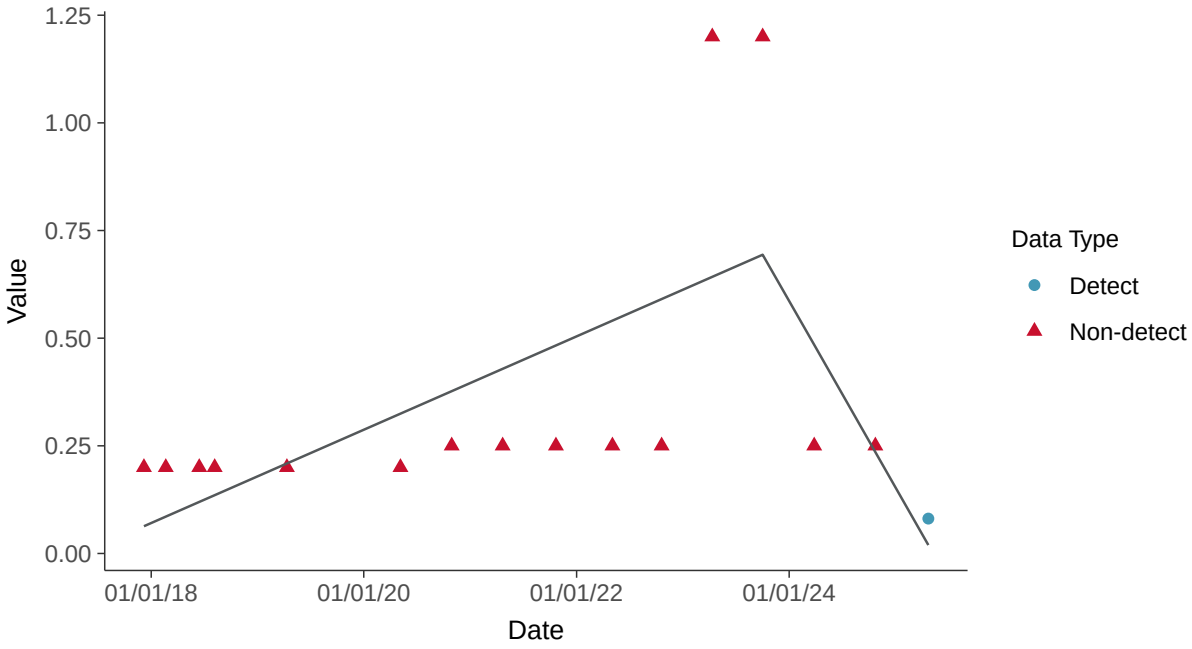
Boxplot by Season

Cadmium, MW-17003 (ug/L)



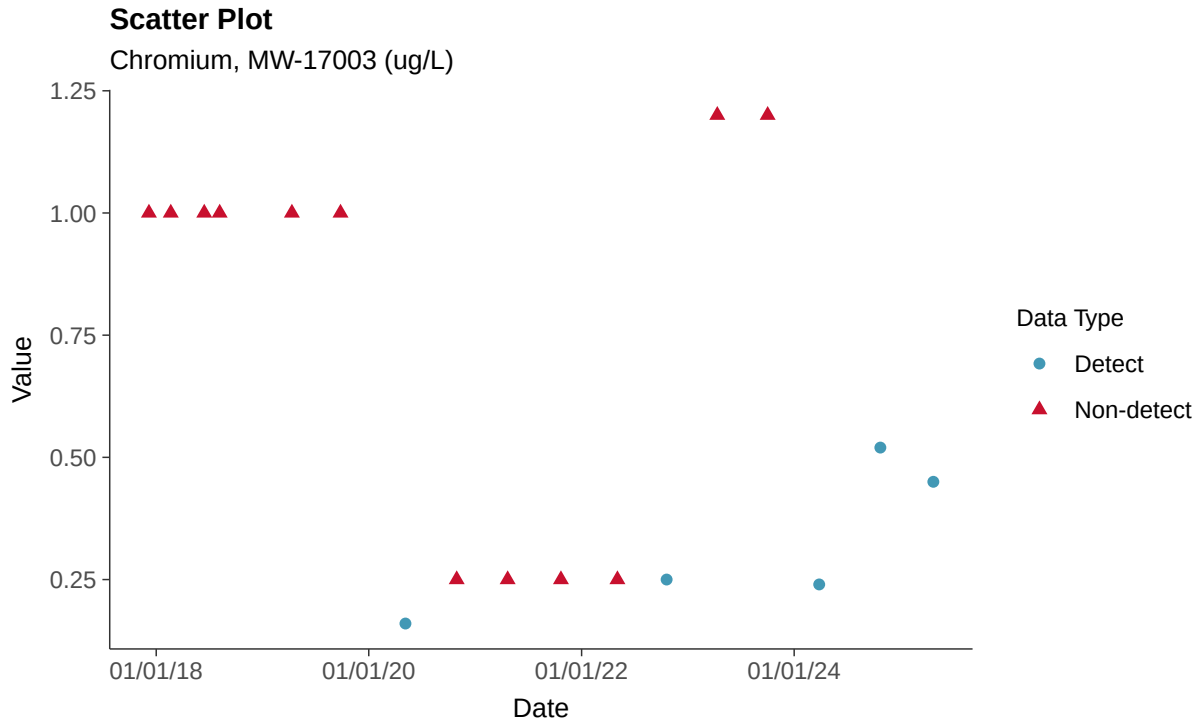
Trend Regression: Piecewise Linear-Linear

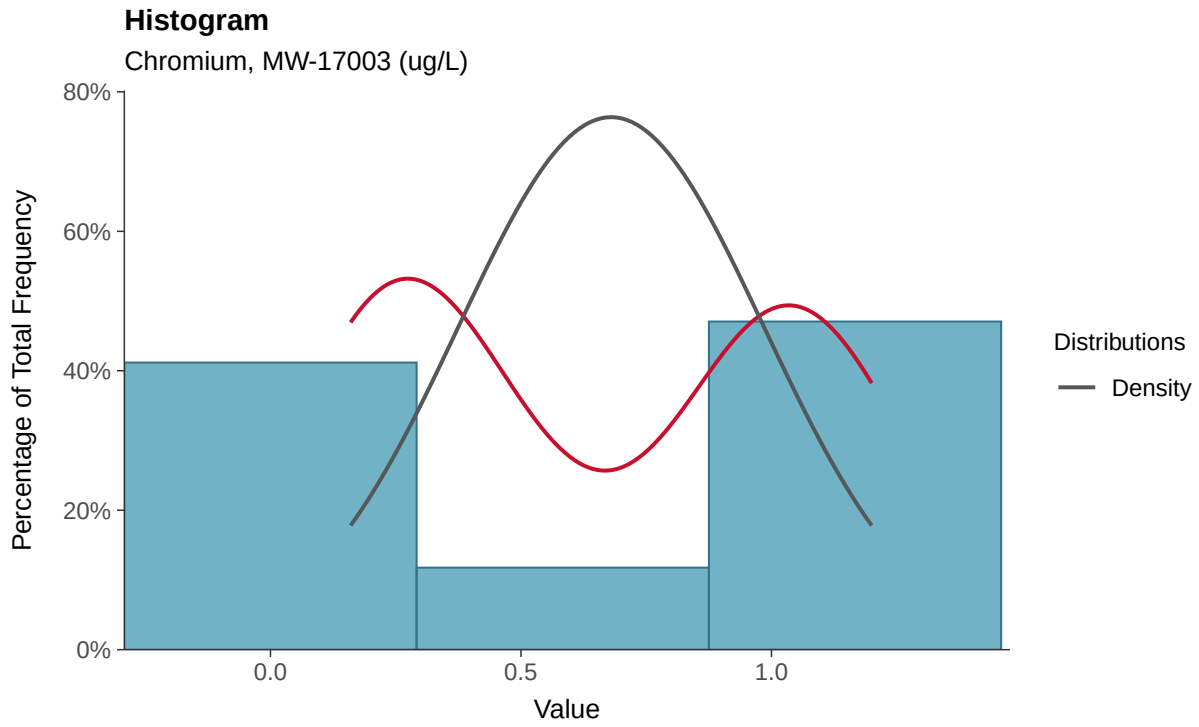
Cadmium, MW-17003 (ug/L)



Appendix IV: Chromium, MW-17003

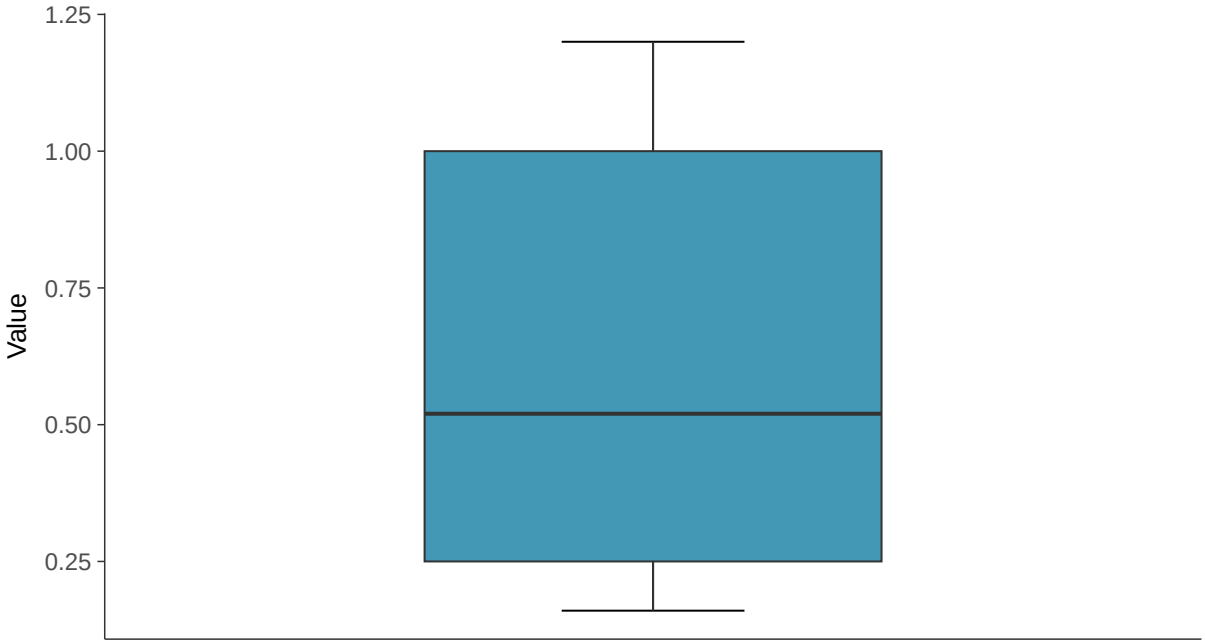
ID: 16_2_109





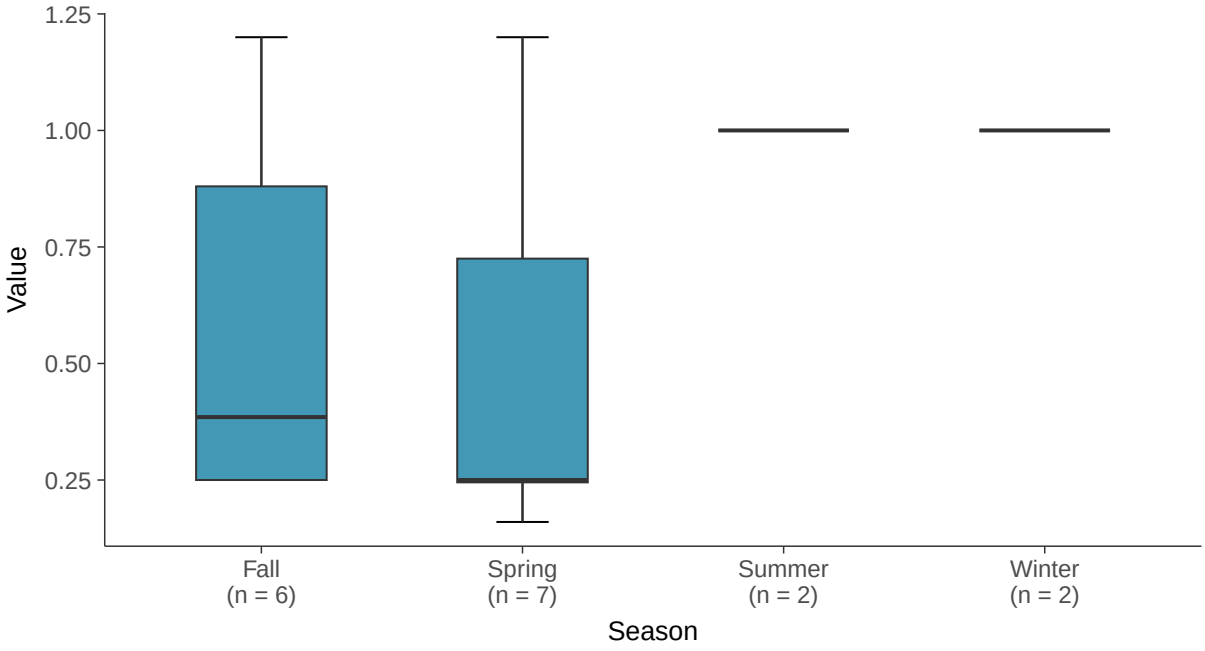
Boxplot

Chromium, MW-17003 (ug/L)



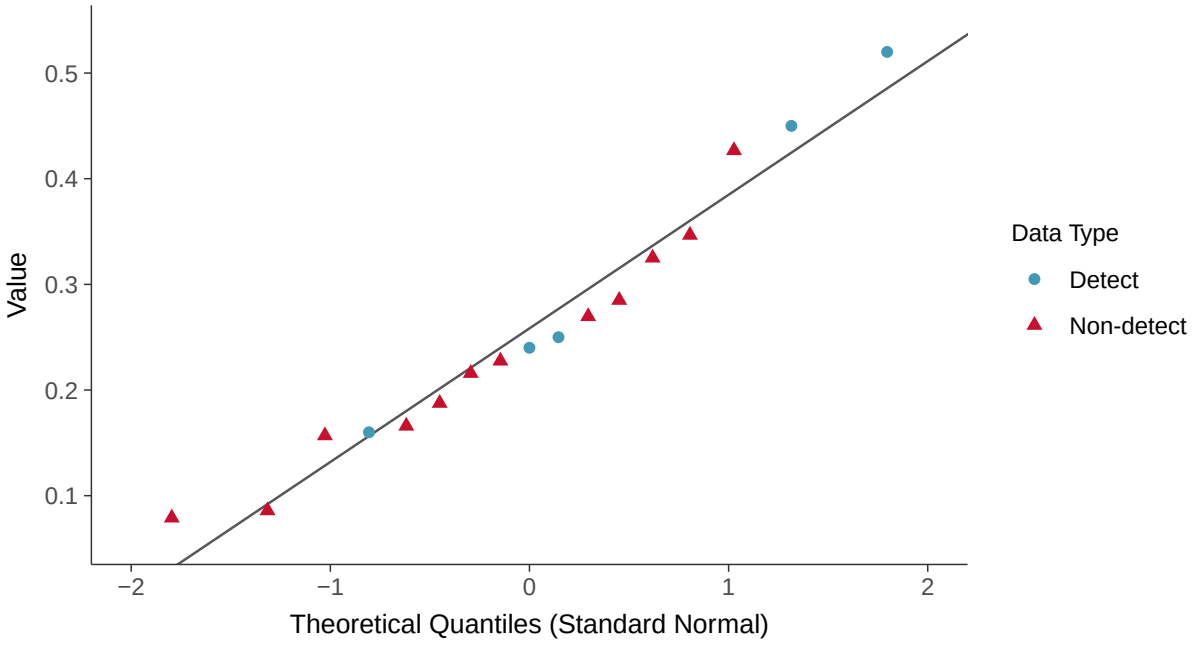
Boxplot by Season

Chromium, MW-17003 (ug/L)



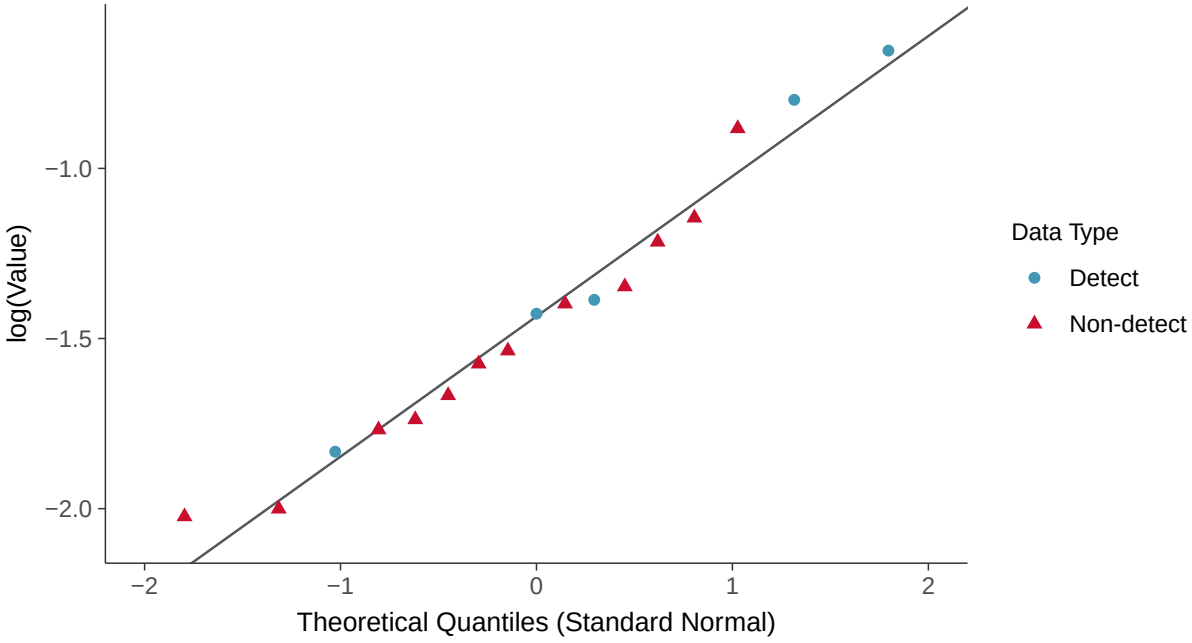
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-17003 (ug/L)



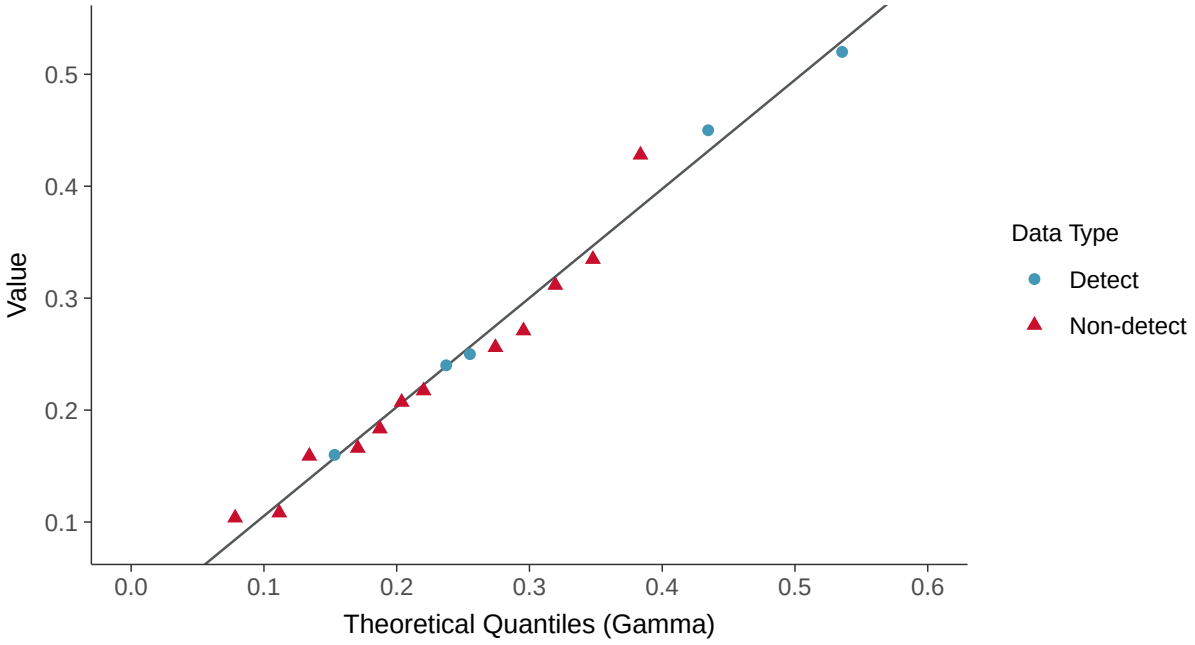
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-17003 (ug/L)



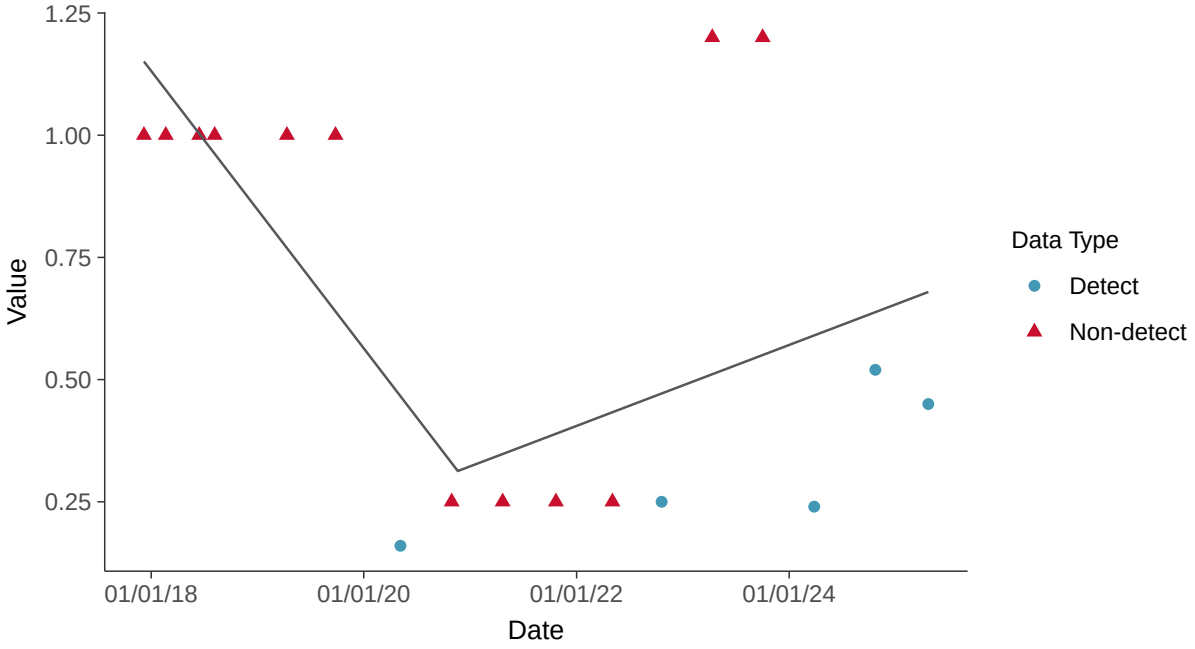
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, MW-17003 (ug/L)



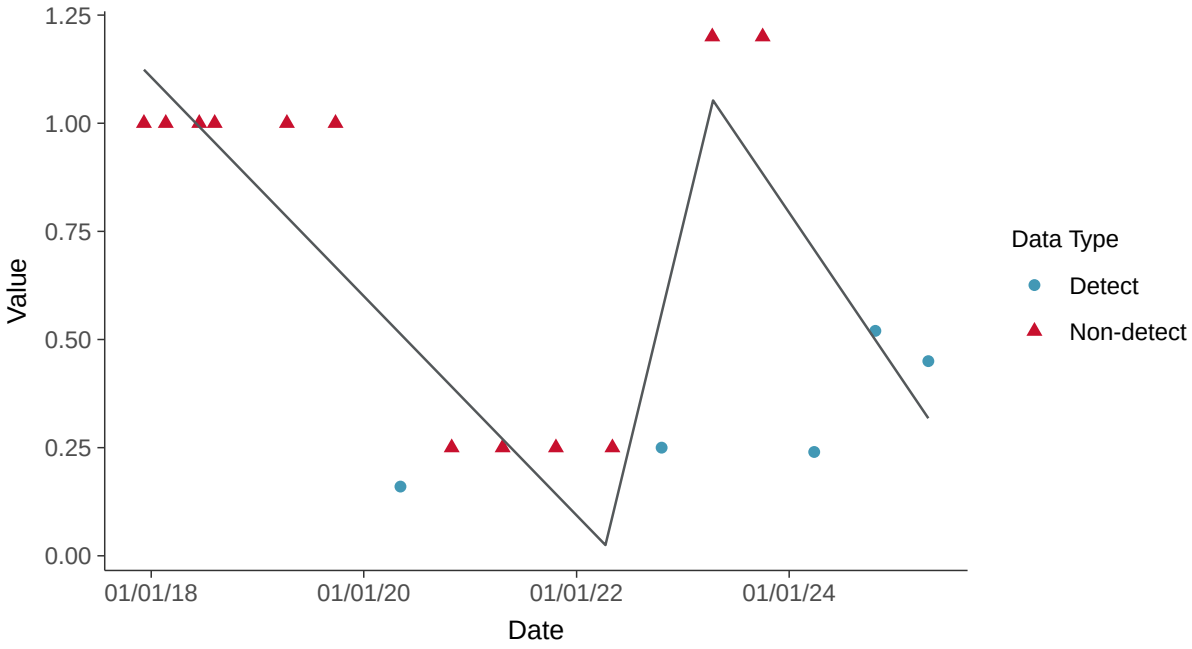
Trend Regression: Piecewise Linear-Linear

Chromium, MW-17003 (ug/L)



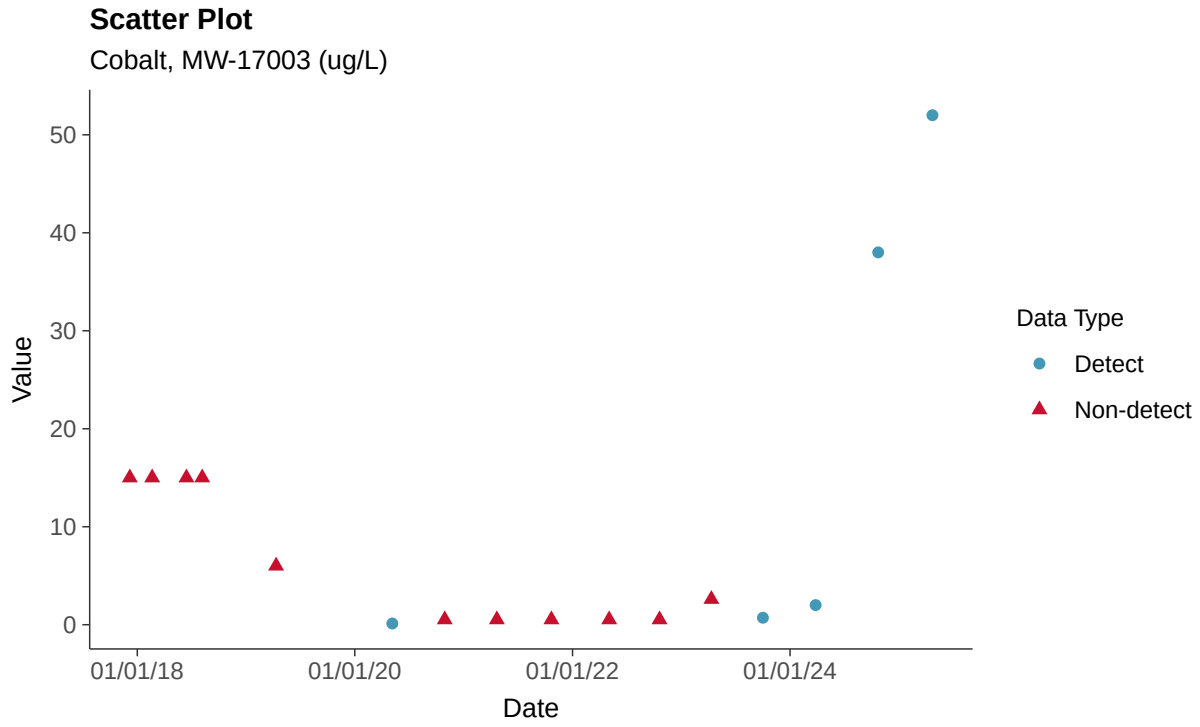
Trend Regression: Piecewise Linear-Linear-Linear

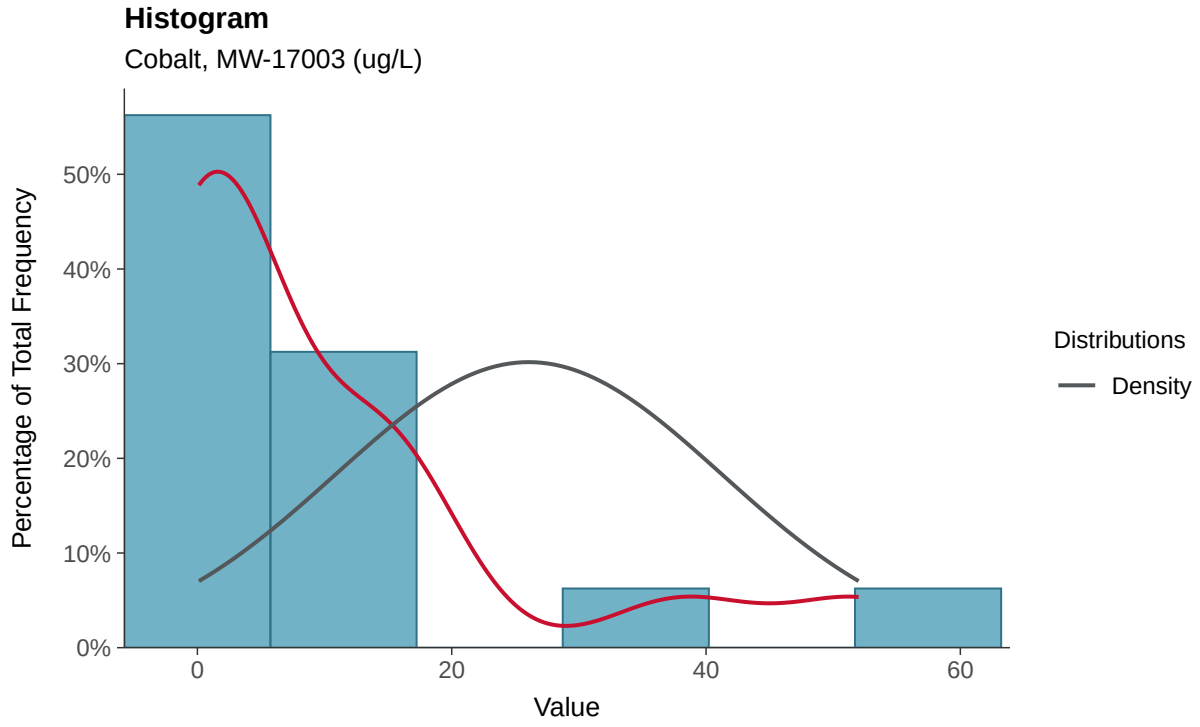
Chromium, MW-17003 (ug/L)



Appendix IV: Cobalt, MW-17003

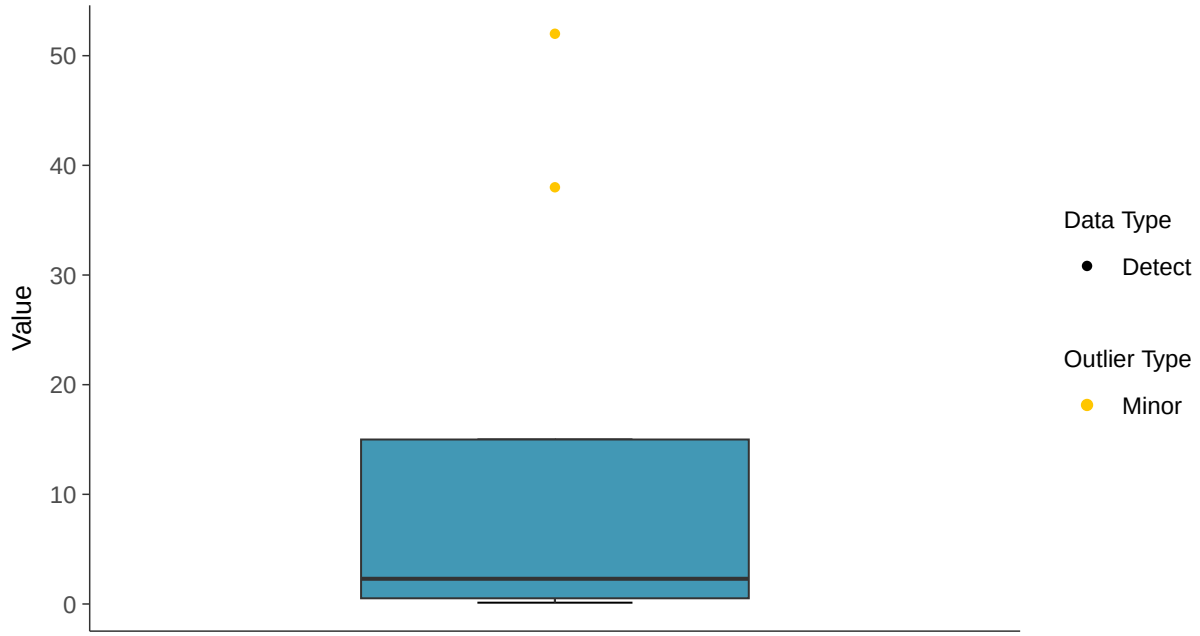
ID: 16_2_110





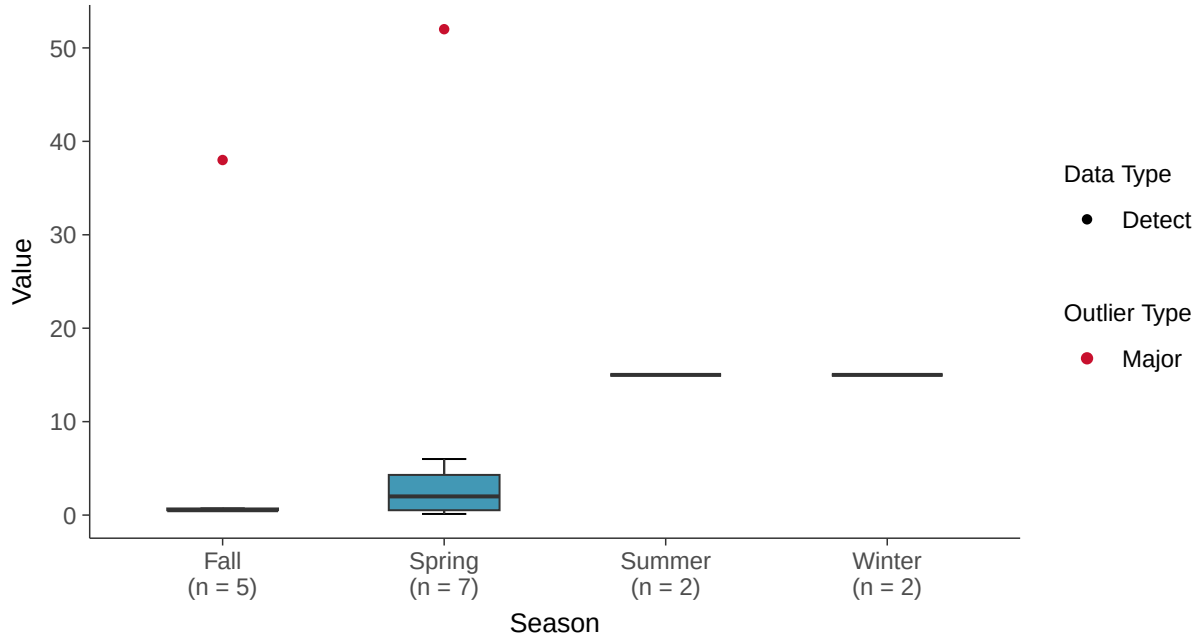
Boxplot

Cobalt, MW-17003 (ug/L)



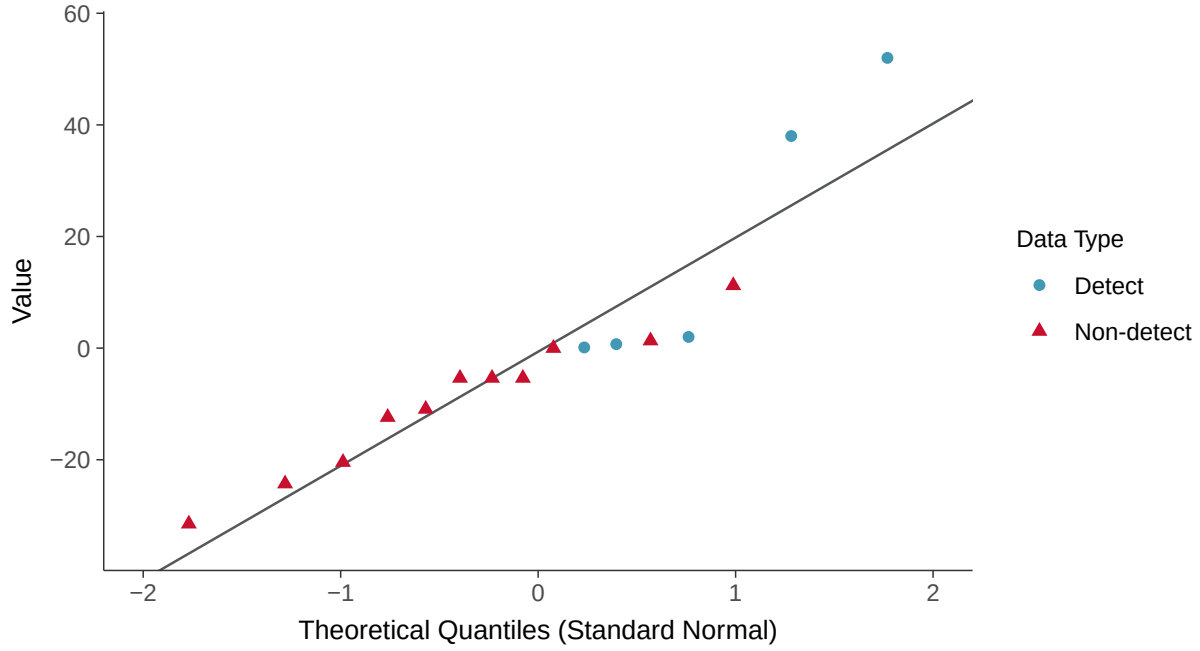
Boxplot by Season

Cobalt, MW-17003 (ug/L)



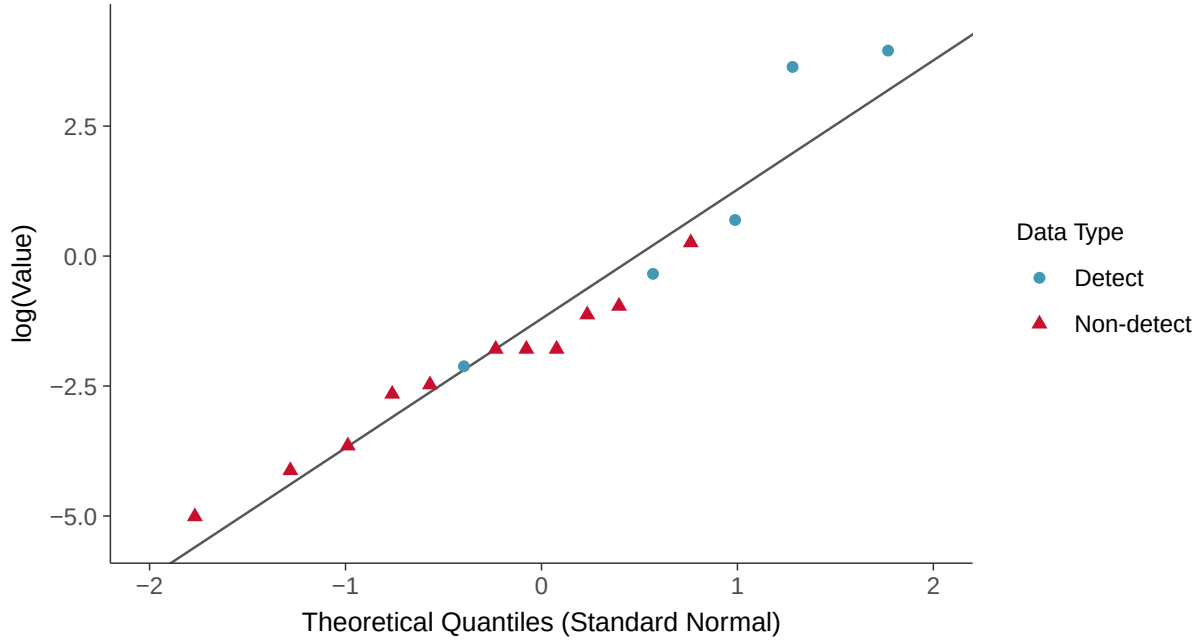
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-17003 (ug/L)



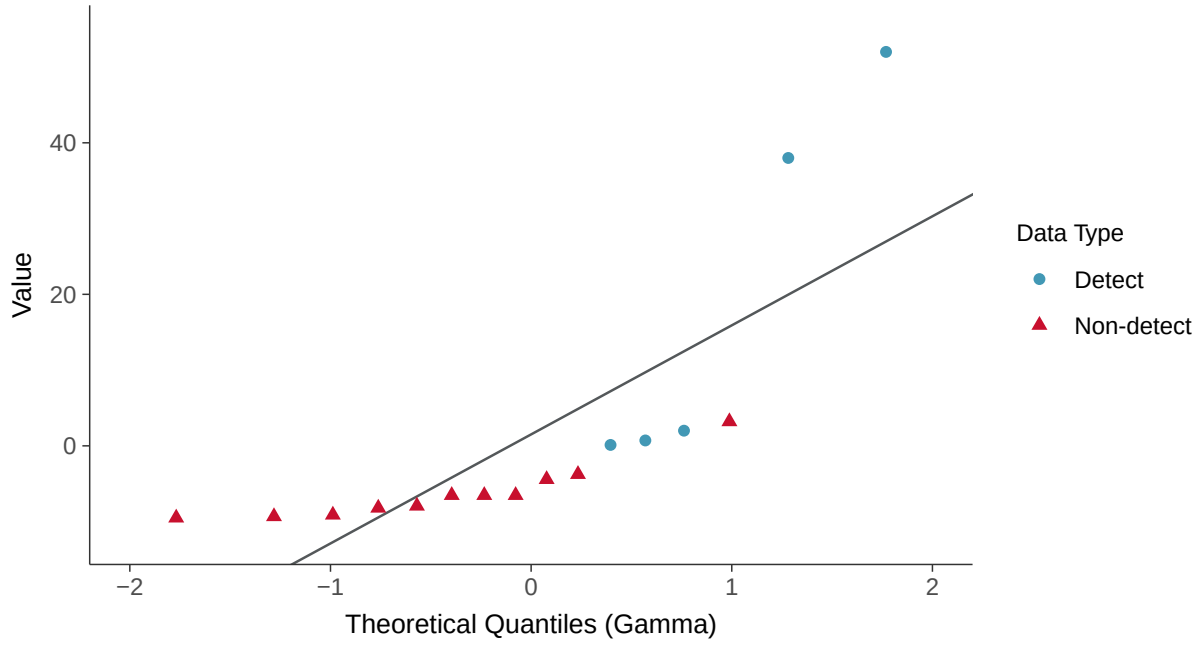
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-17003 (ug/L)



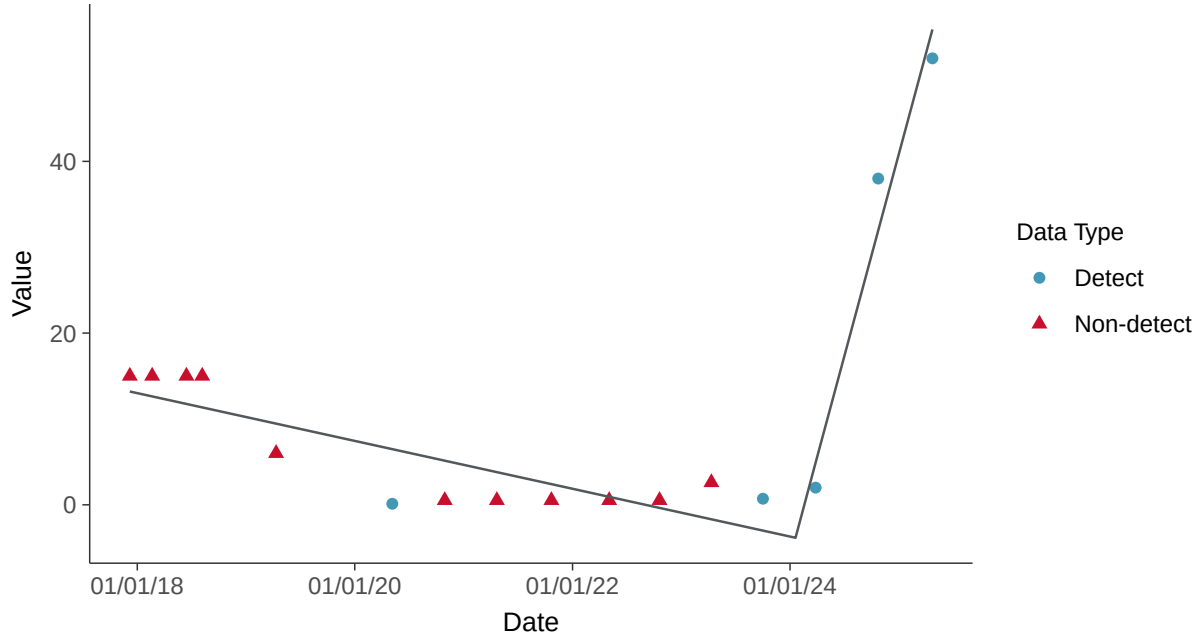
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-17003 (ug/L)



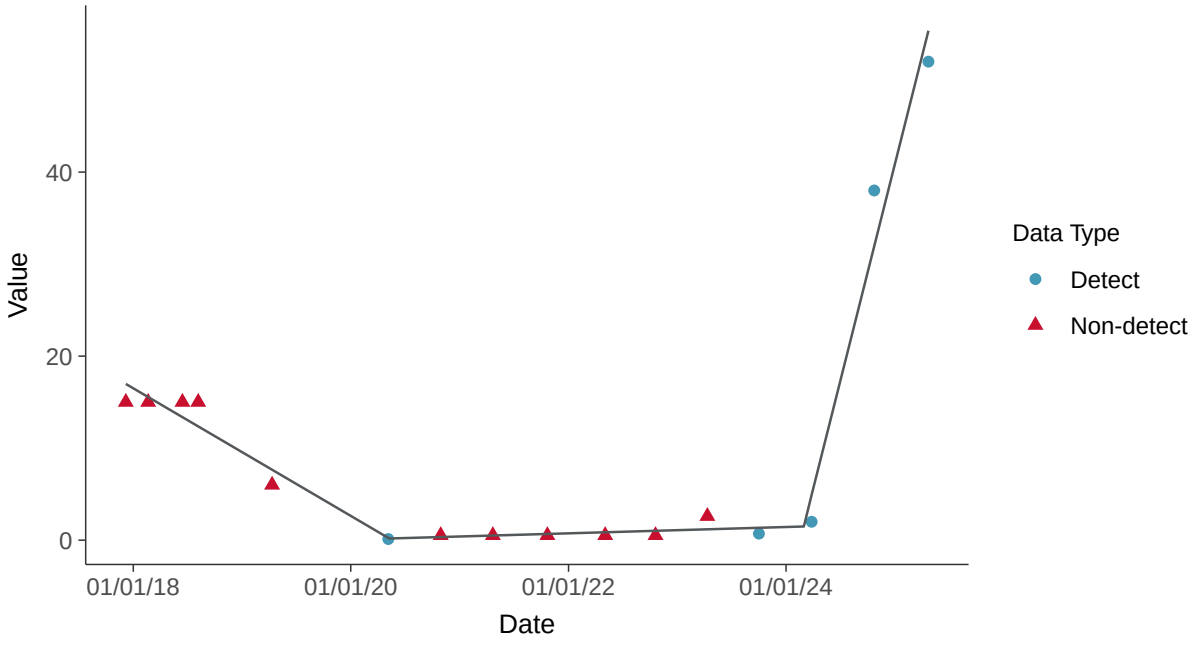
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-17003 (ug/L)



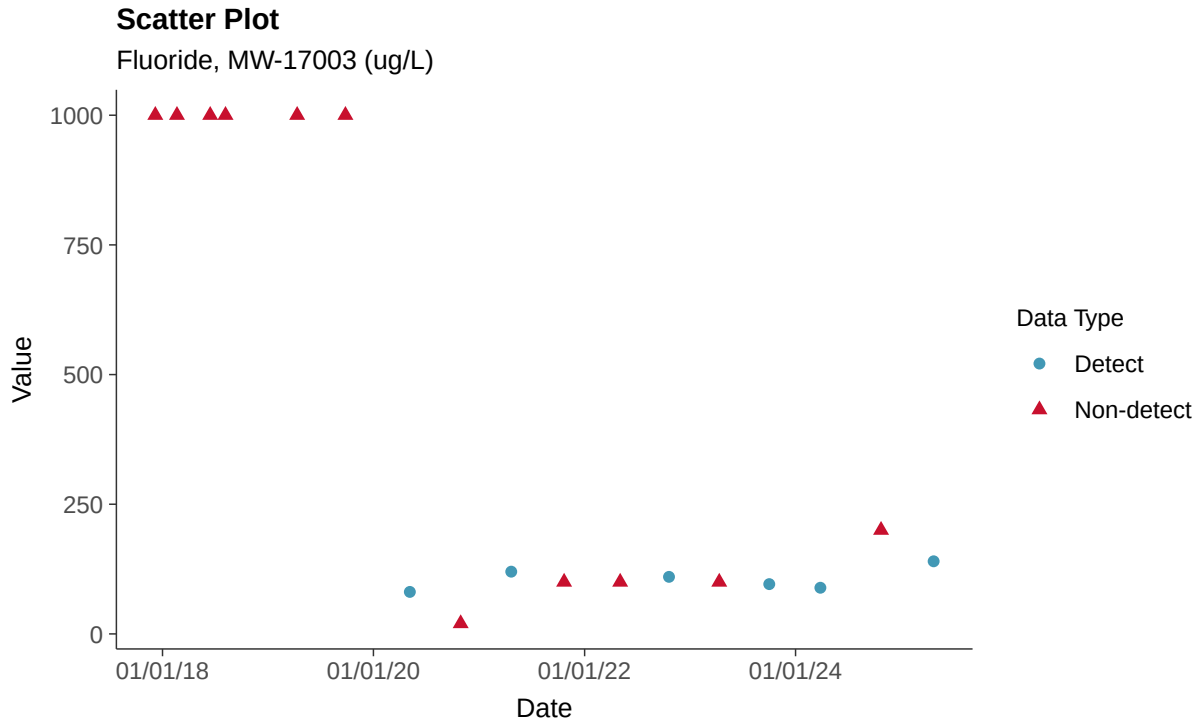
Trend Regression: Piecewise Linear-Linear-Linear

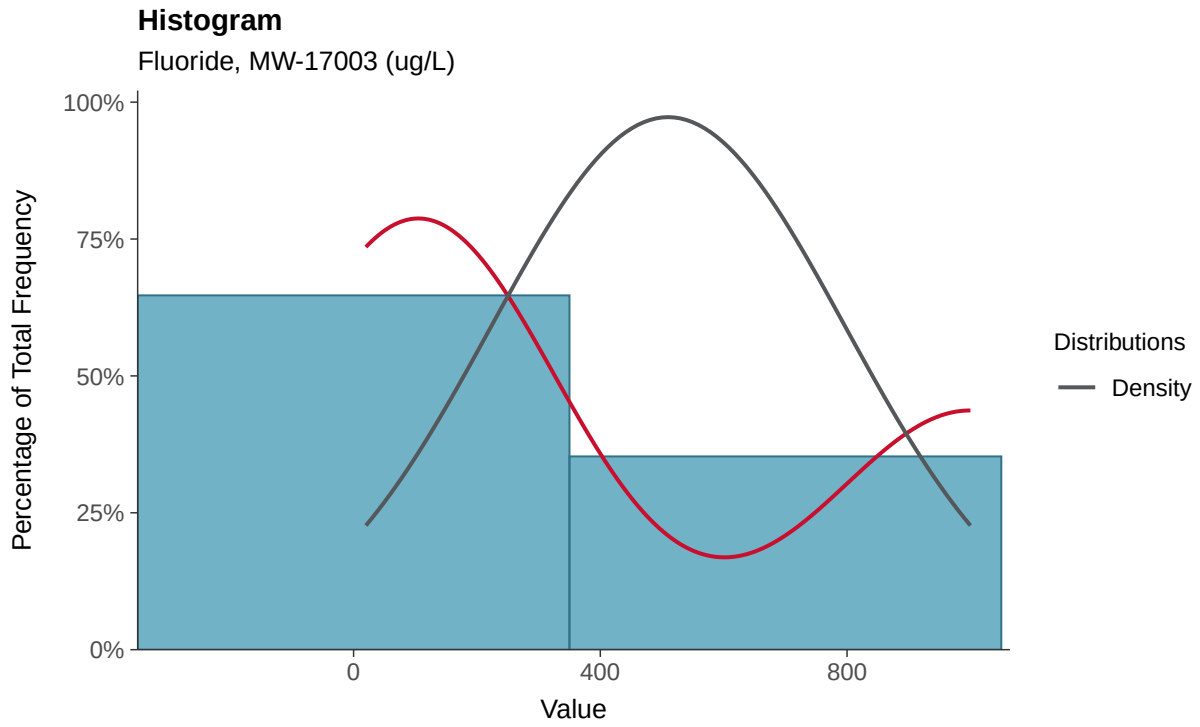
Cobalt, MW-17003 (ug/L)



Appendix IV: Fluoride, MW-17003

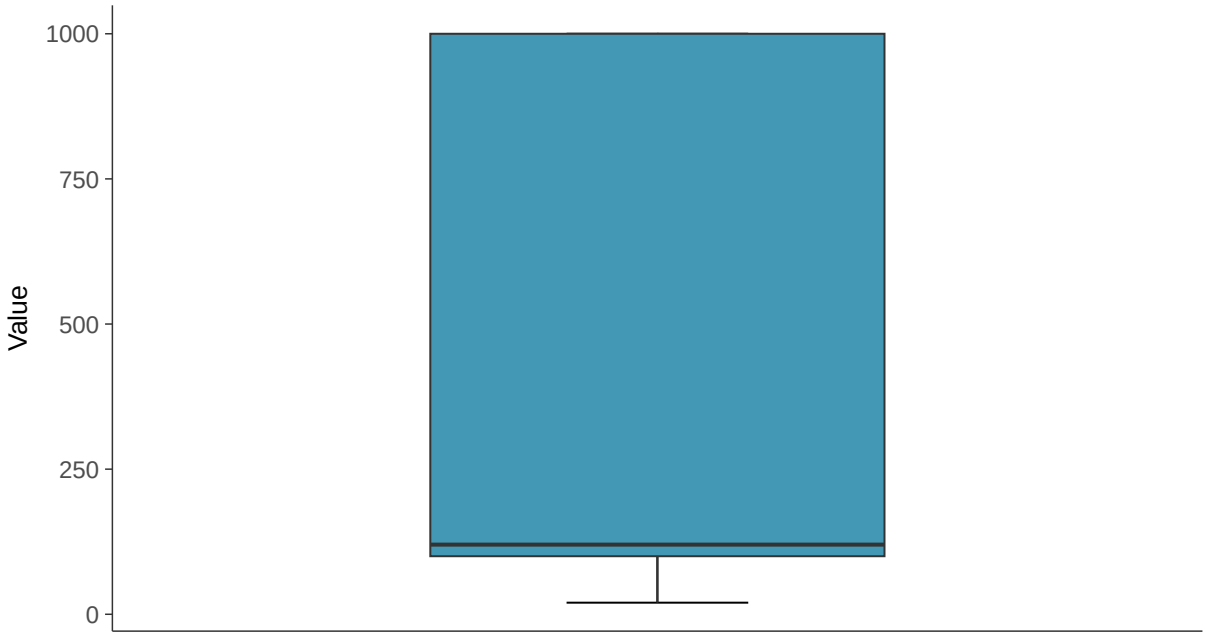
ID: 16_2_114





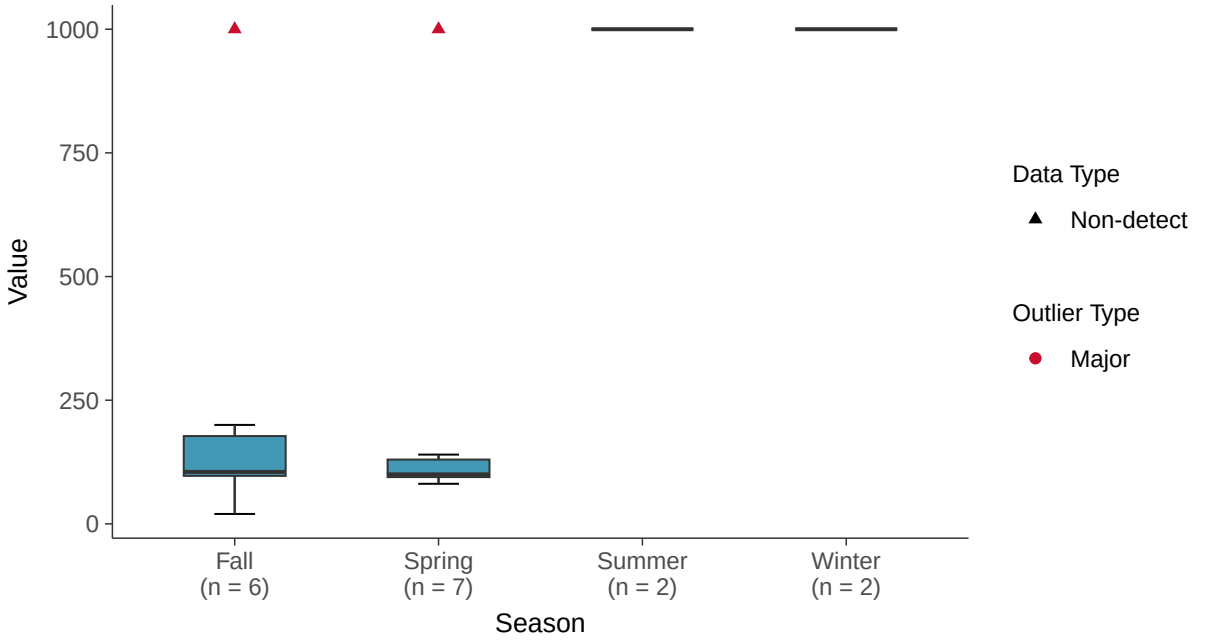
Boxplot

Fluoride, MW-17003 (ug/L)



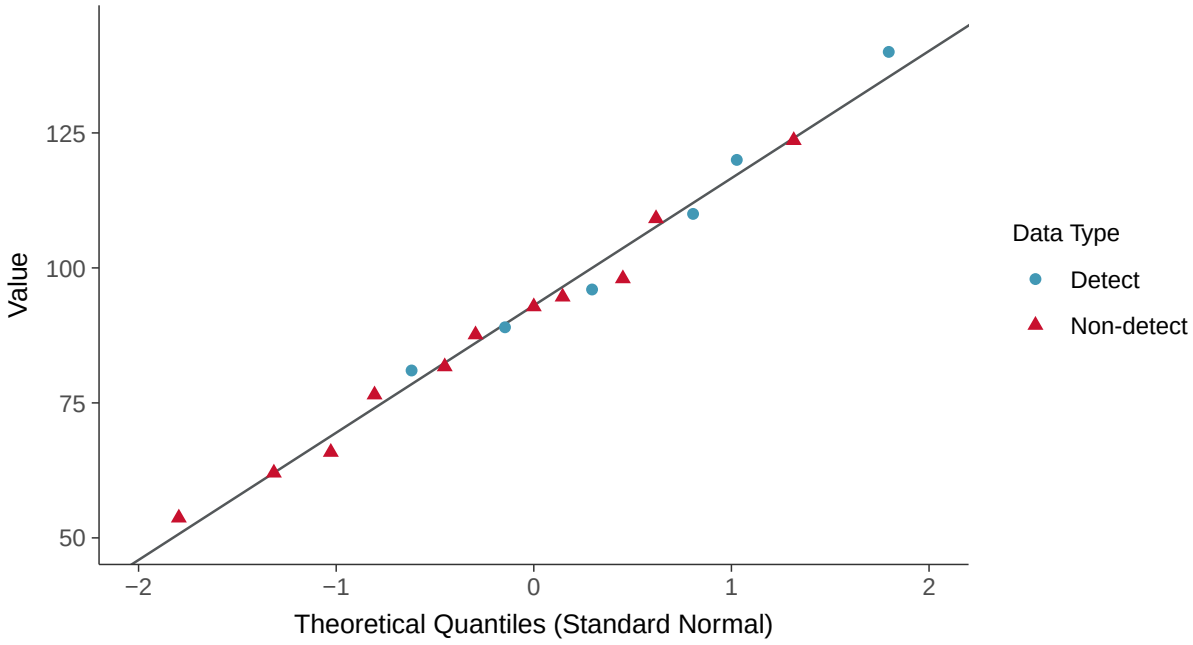
Boxplot by Season

Fluoride, MW-17003 (ug/L)



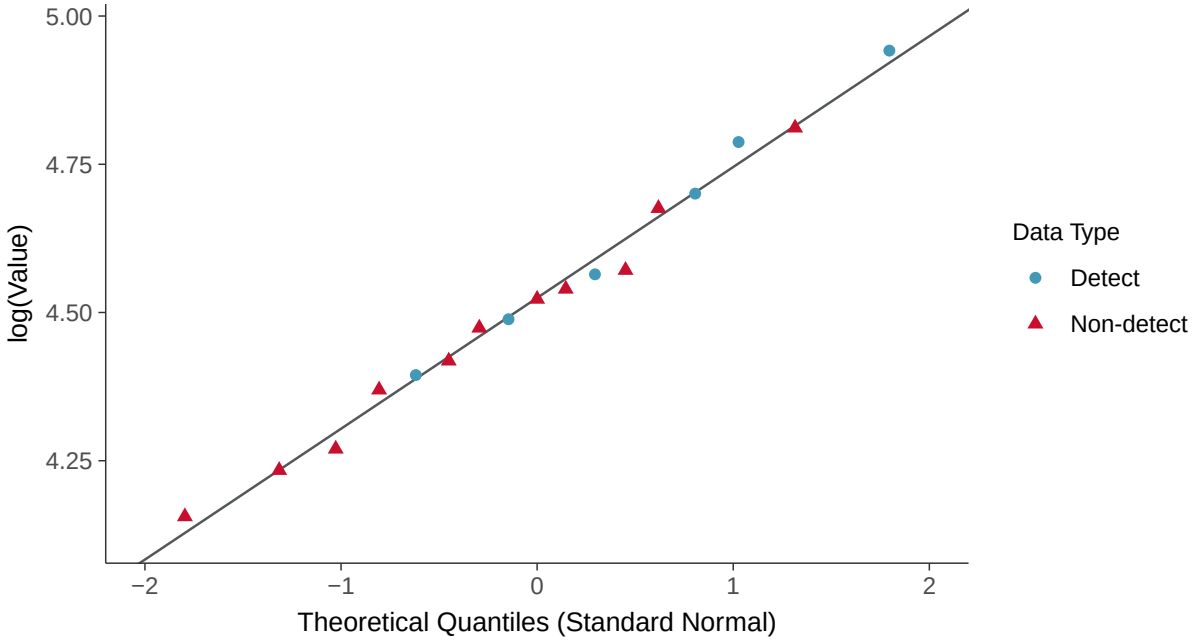
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17003 (ug/L)



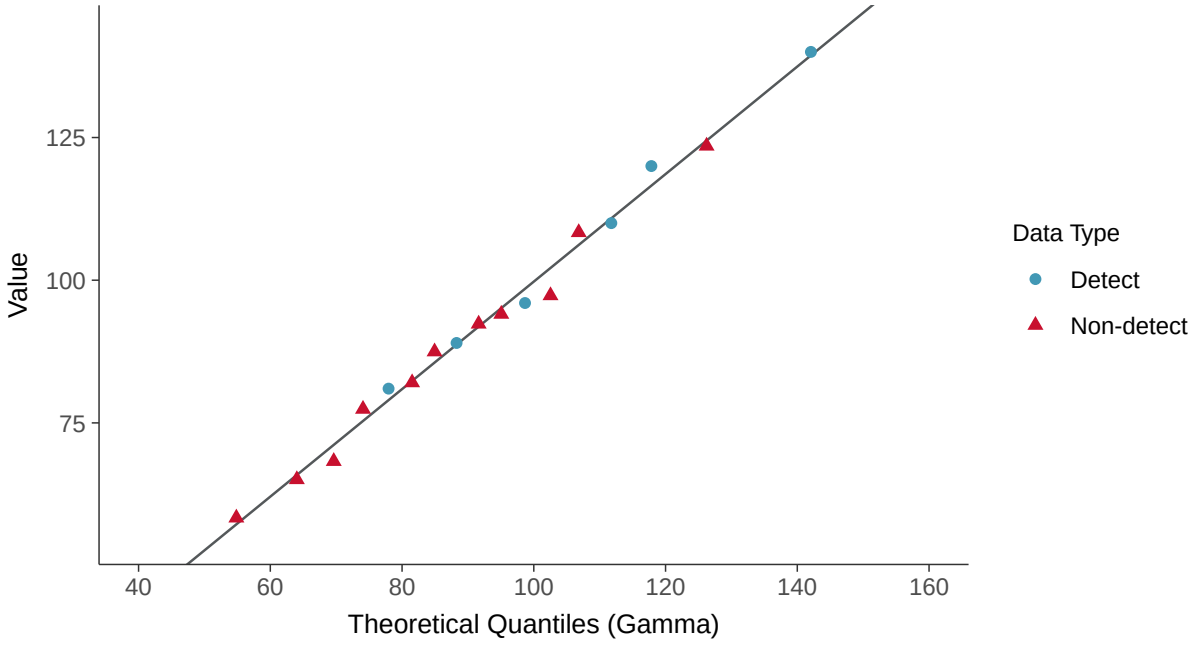
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17003 (ug/L)



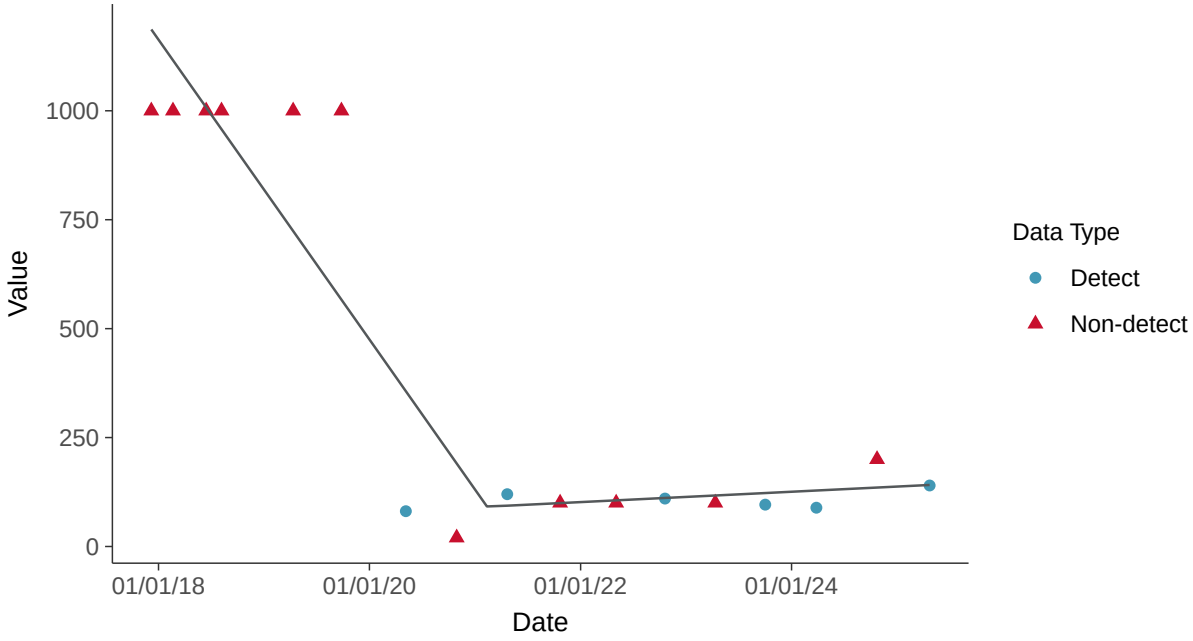
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17003 (ug/L)



Trend Regression: Piecewise Linear-Linear

Fluoride, MW-17003 (ug/L)

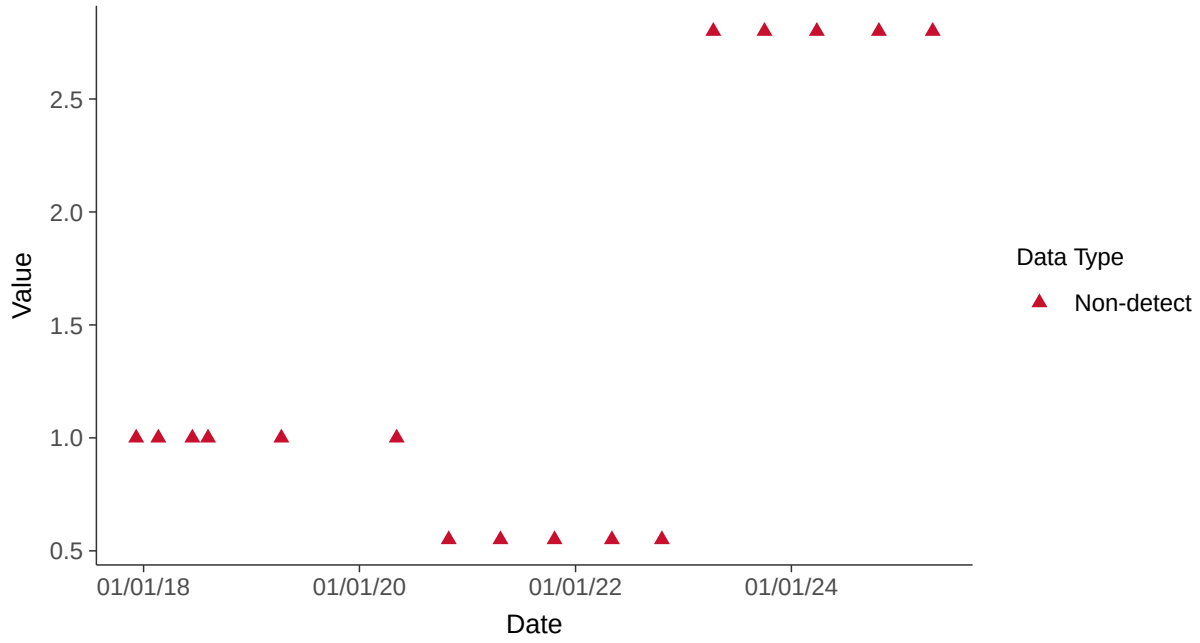


Appendix IV: Lead, MW-17003

ID: 16_2_116

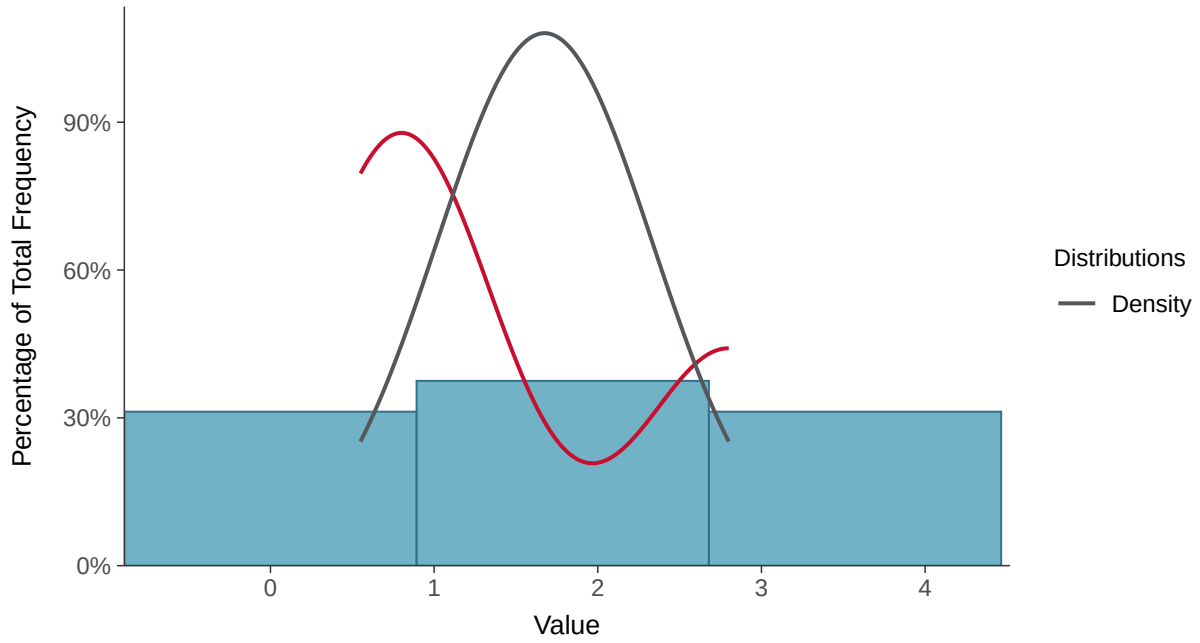
Scatter Plot

Lead, MW-17003 (ug/L)



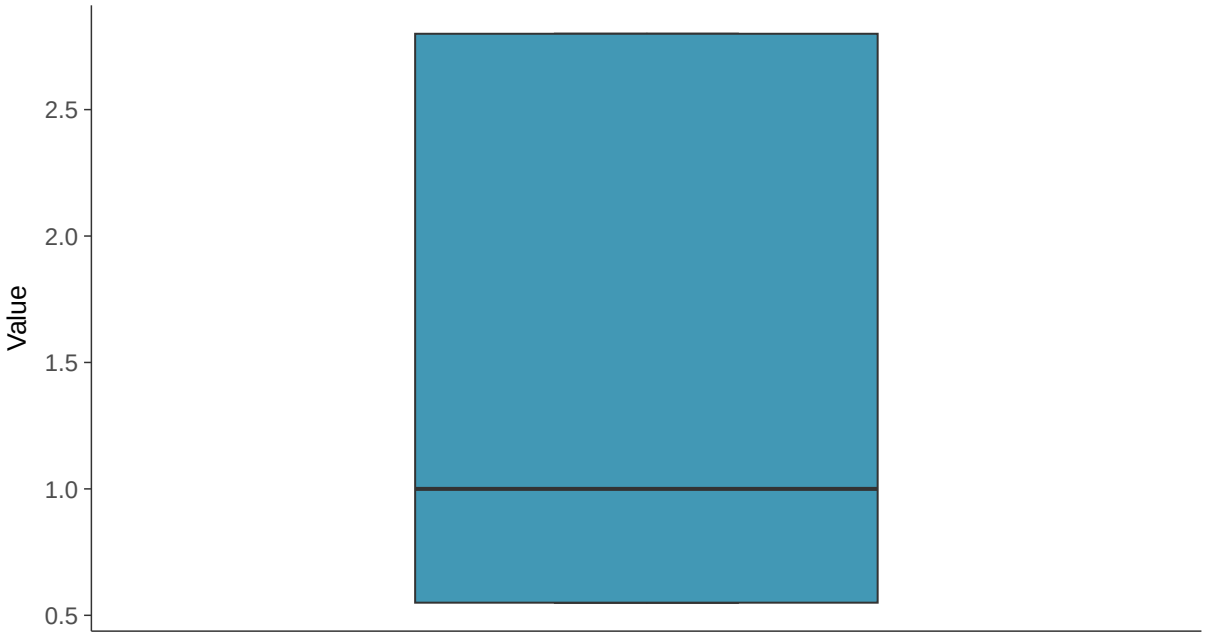
Histogram

Lead, MW-17003 (ug/L)



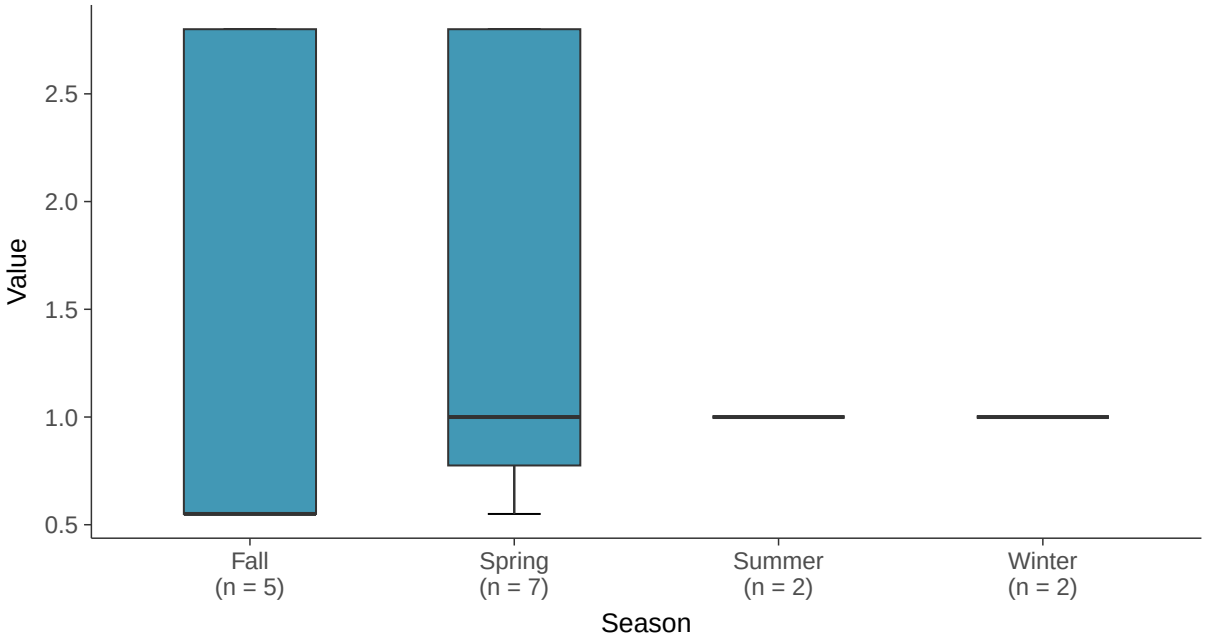
Boxplot

Lead, MW-17003 (ug/L)



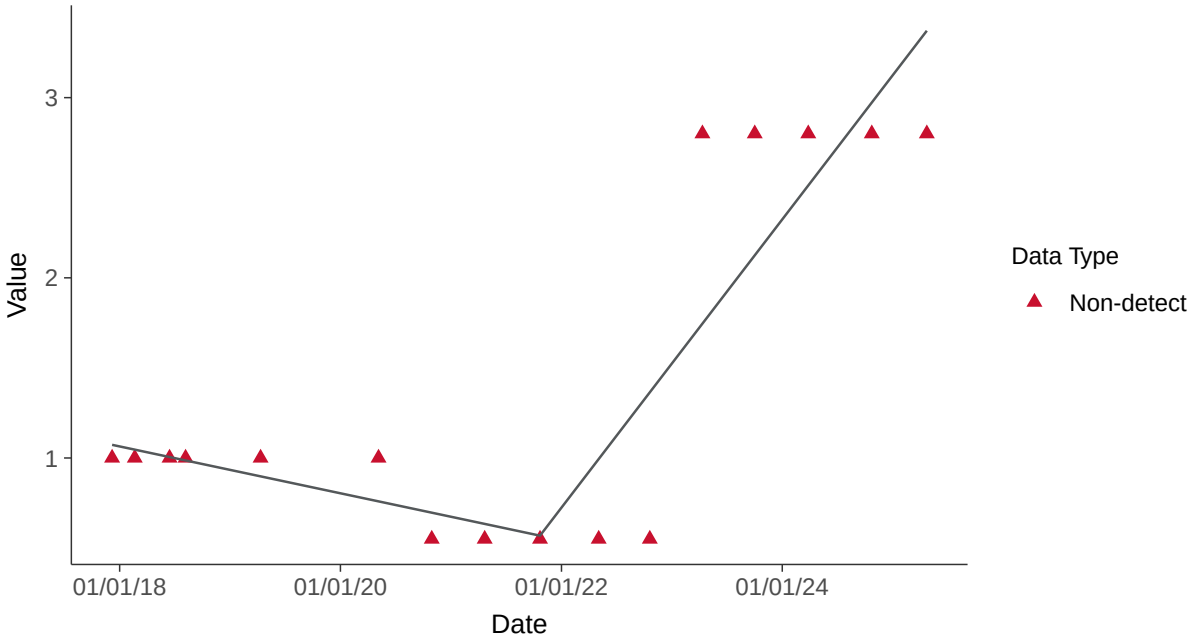
Boxplot by Season

Lead, MW-17003 (ug/L)



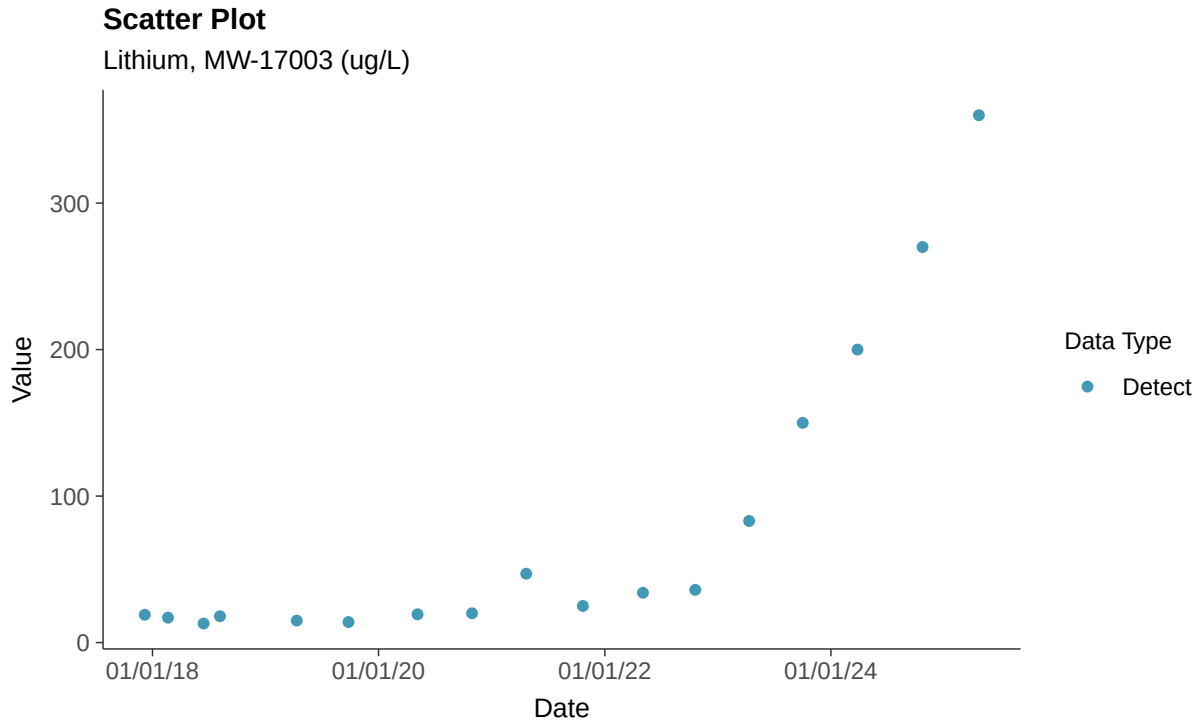
Trend Regression: Piecewise Linear-Linear

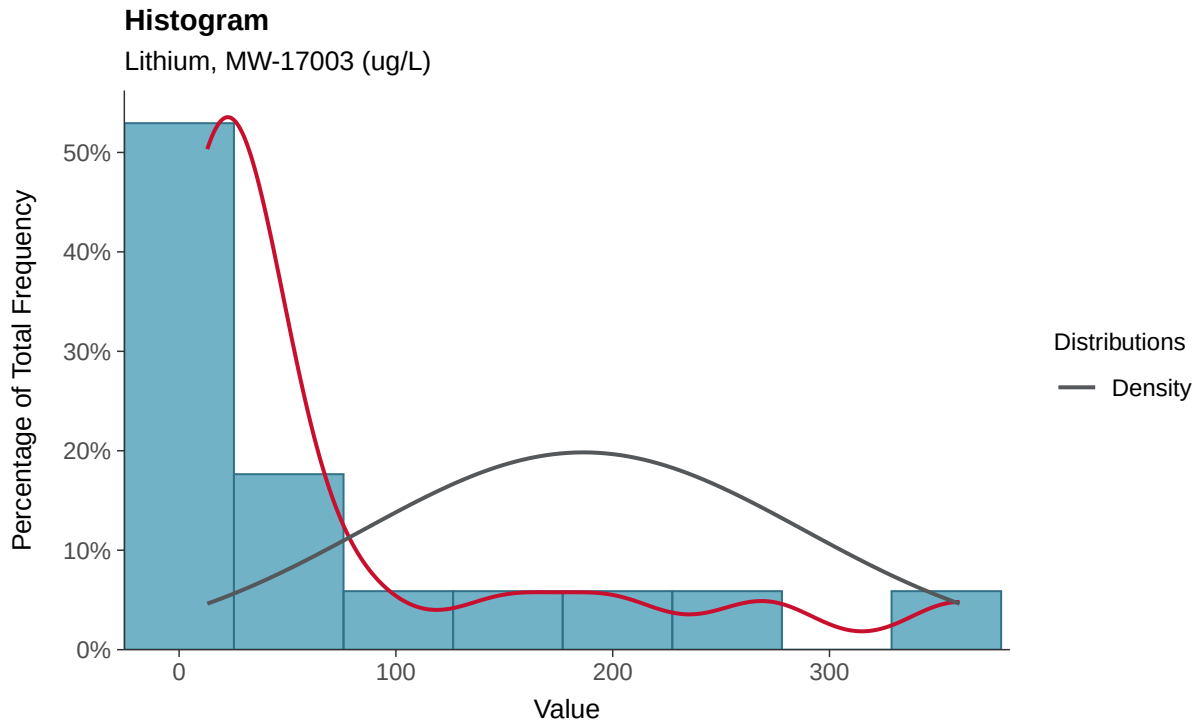
Lead, MW-17003 (ug/L)



Appendix IV: Lithium, MW-17003

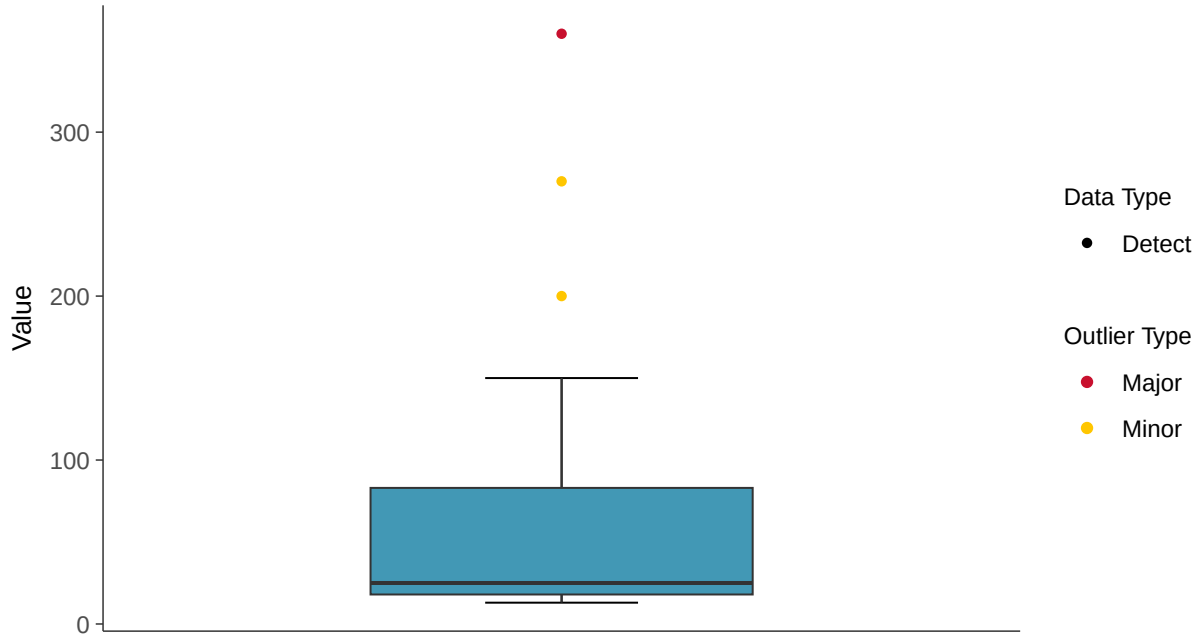
ID: 16_2_117





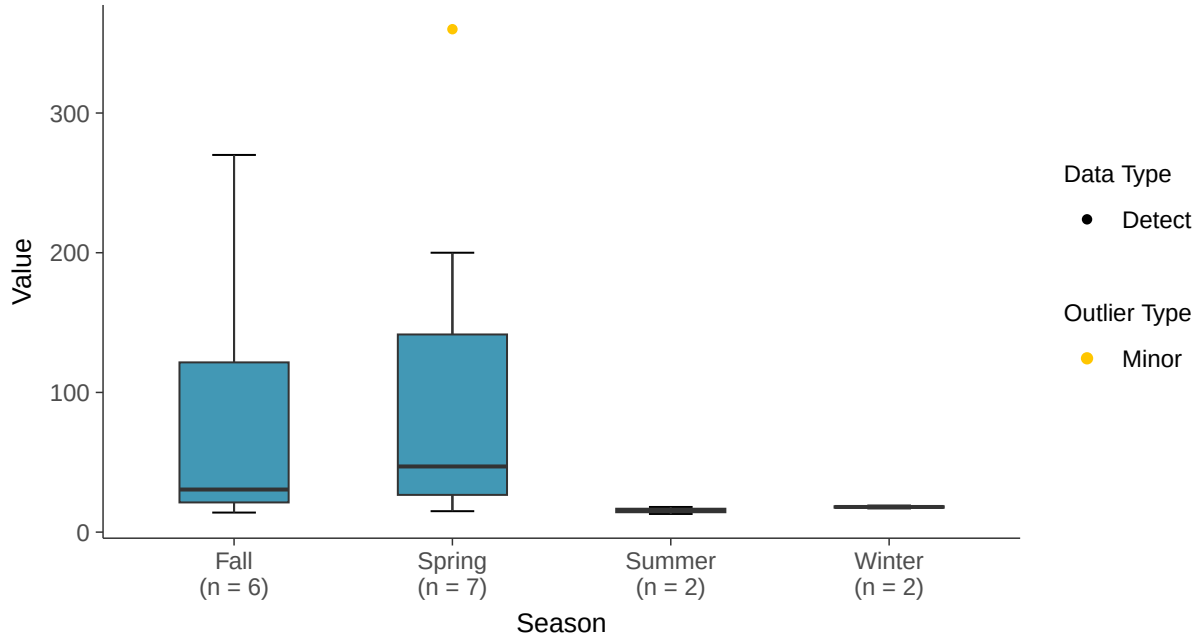
Boxplot

Lithium, MW-17003 (ug/L)



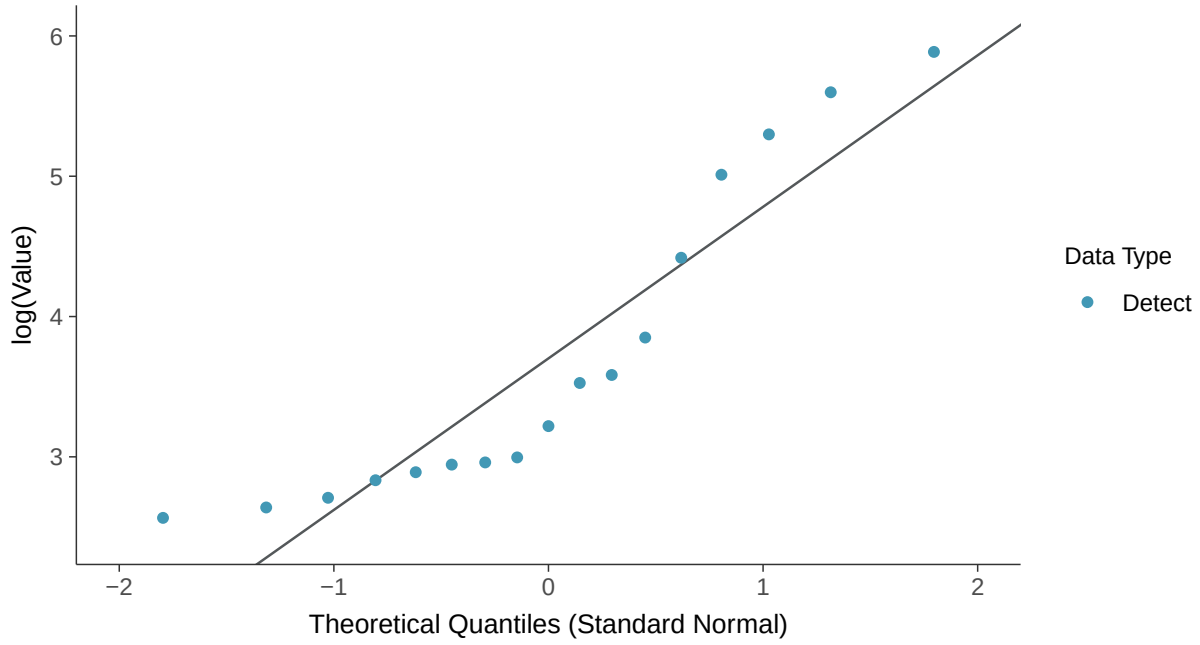
Boxplot by Season

Lithium, MW-17003 (ug/L)



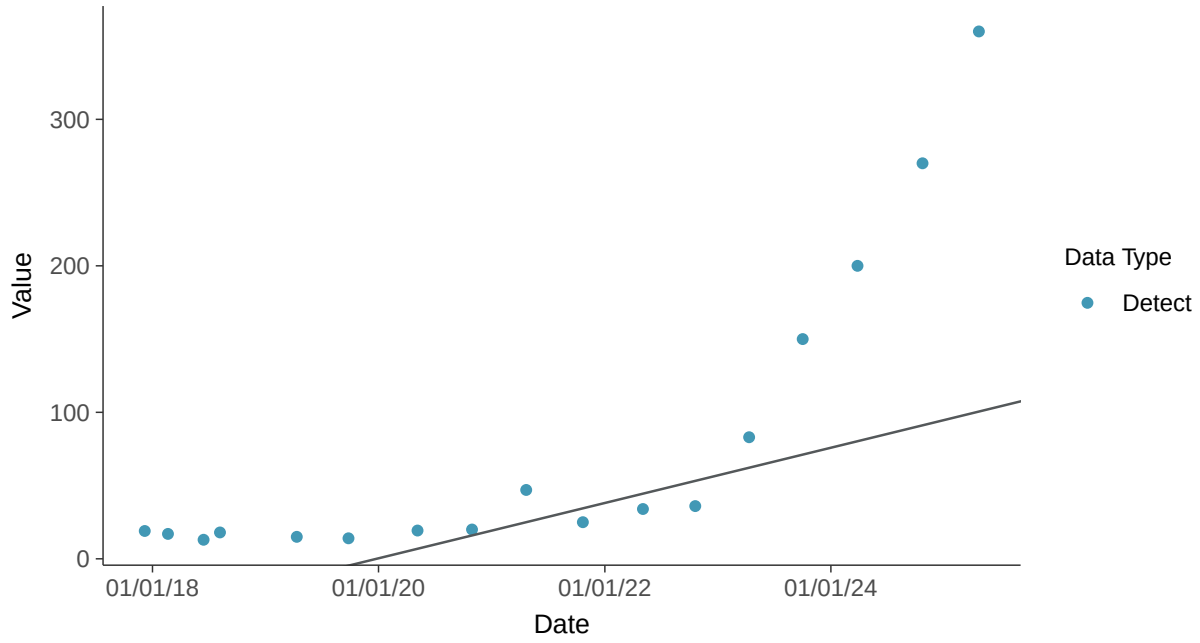
Lognormal Q-Q plot

Lithium, MW-17003 (ug/L)



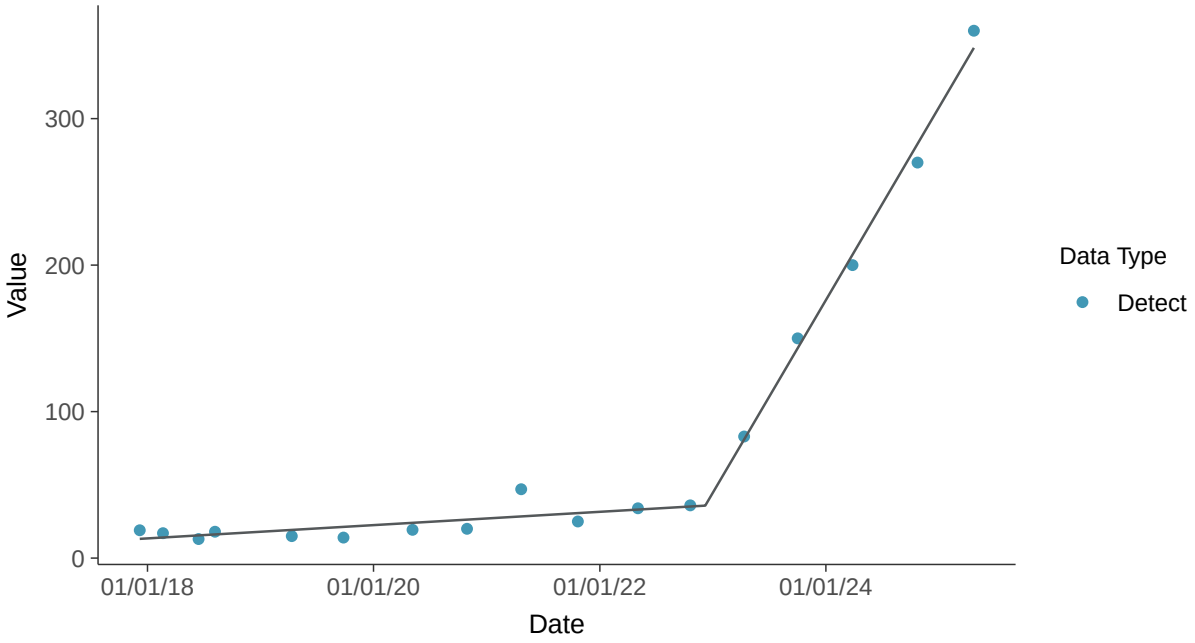
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Lithium, MW-17003 (ug/L)



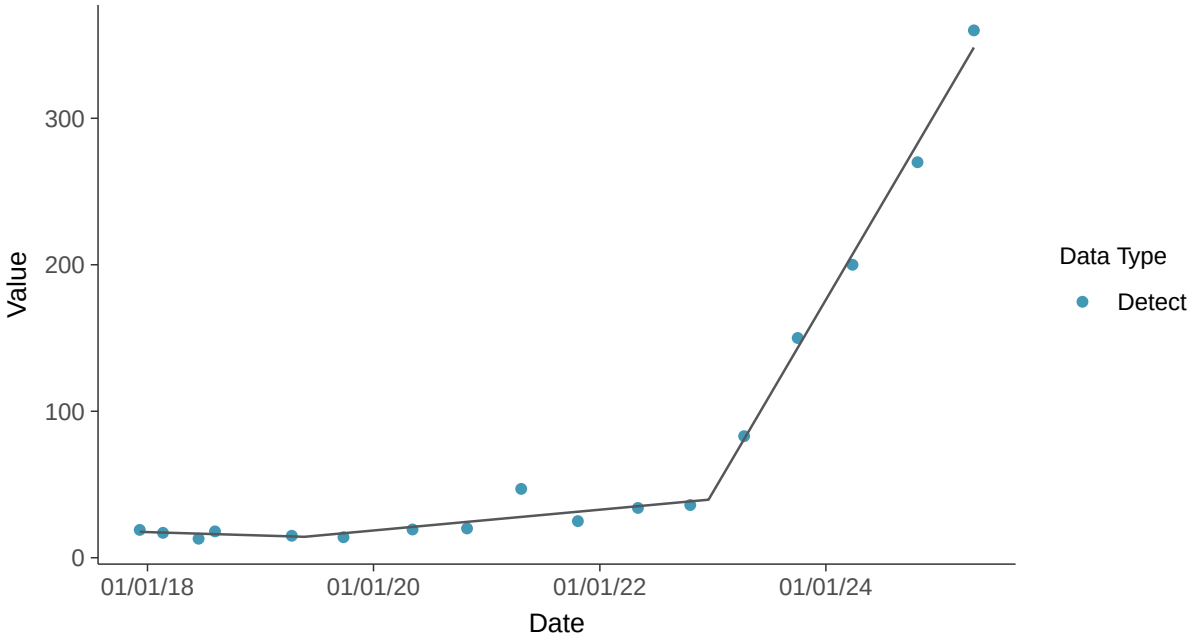
Trend Regression: Piecewise Linear-Linear

Lithium, MW-17003 (ug/L)



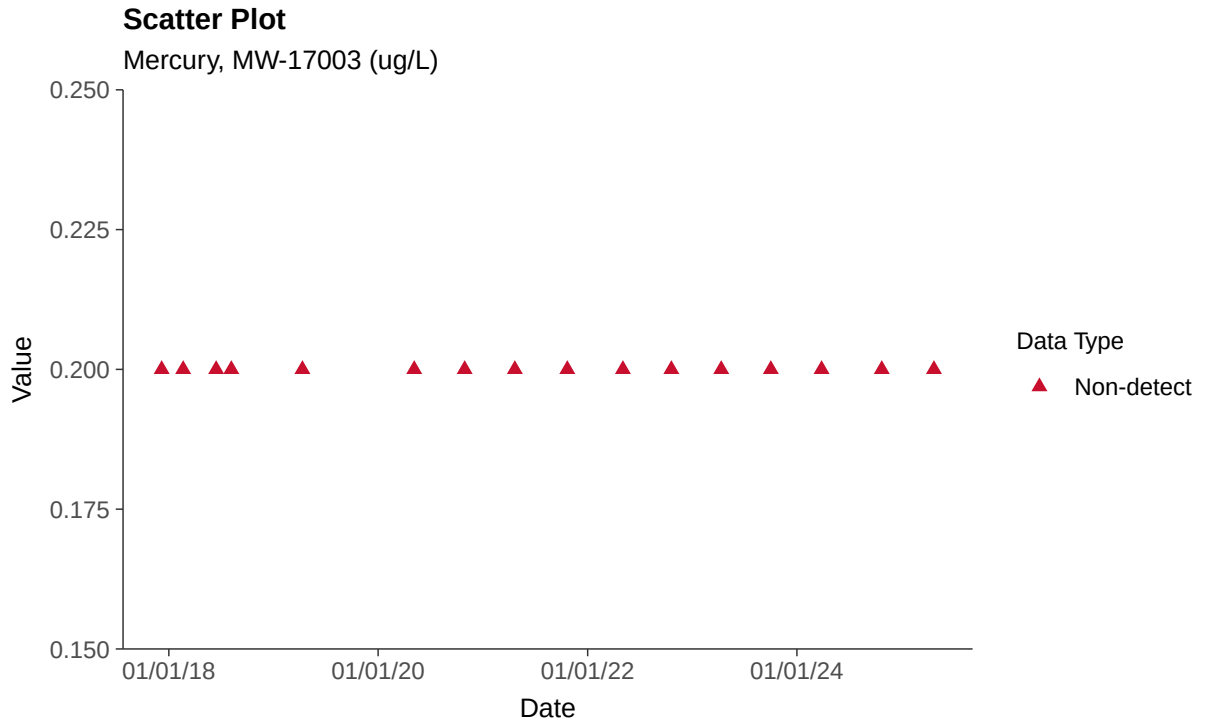
Trend Regression: Piecewise Linear-Linear-Linear

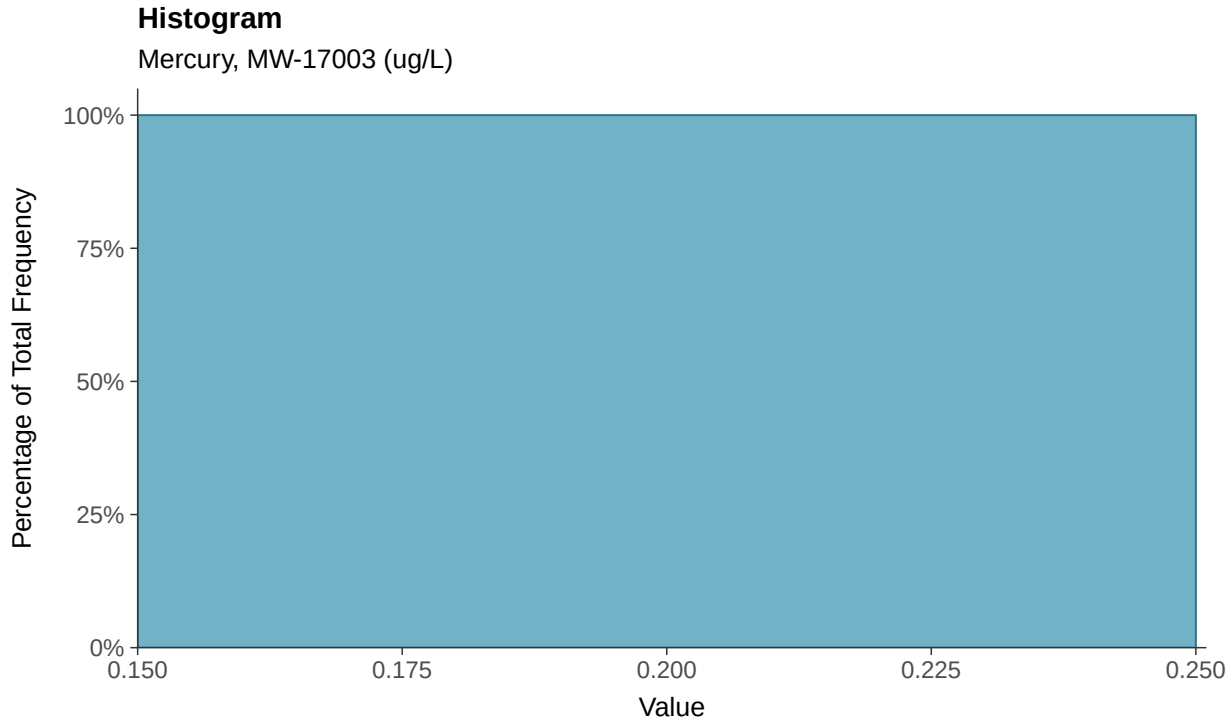
Lithium, MW-17003 (ug/L)



Appendix IV: Mercury, MW-17003

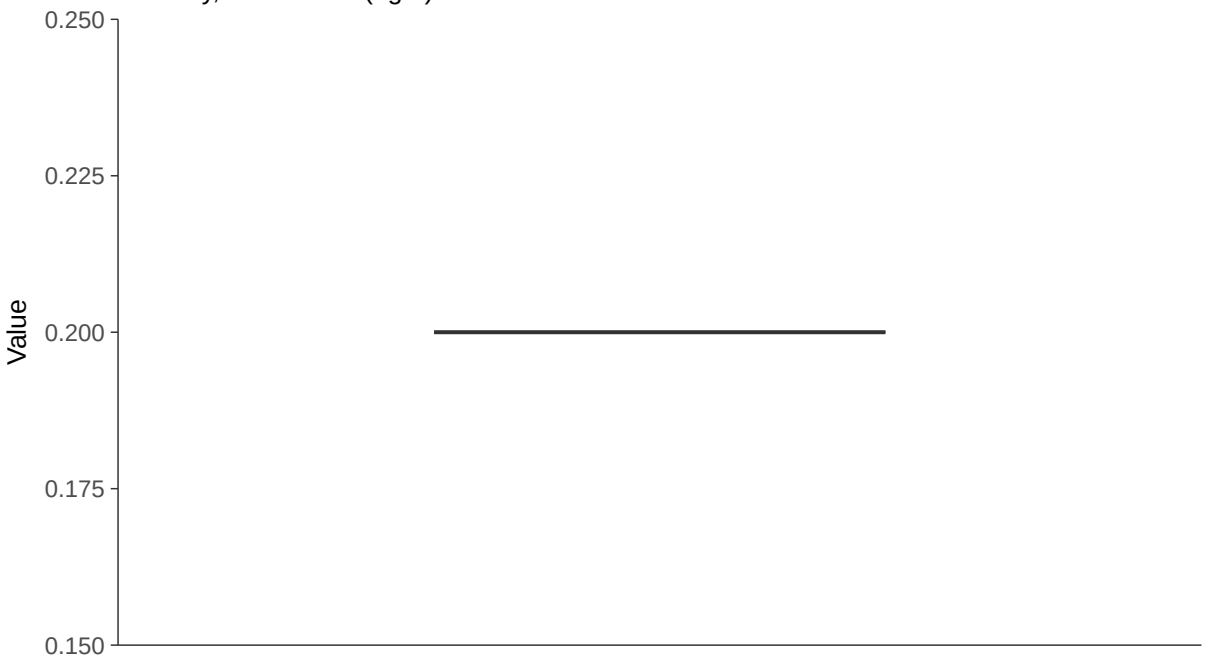
ID: 16_2_118





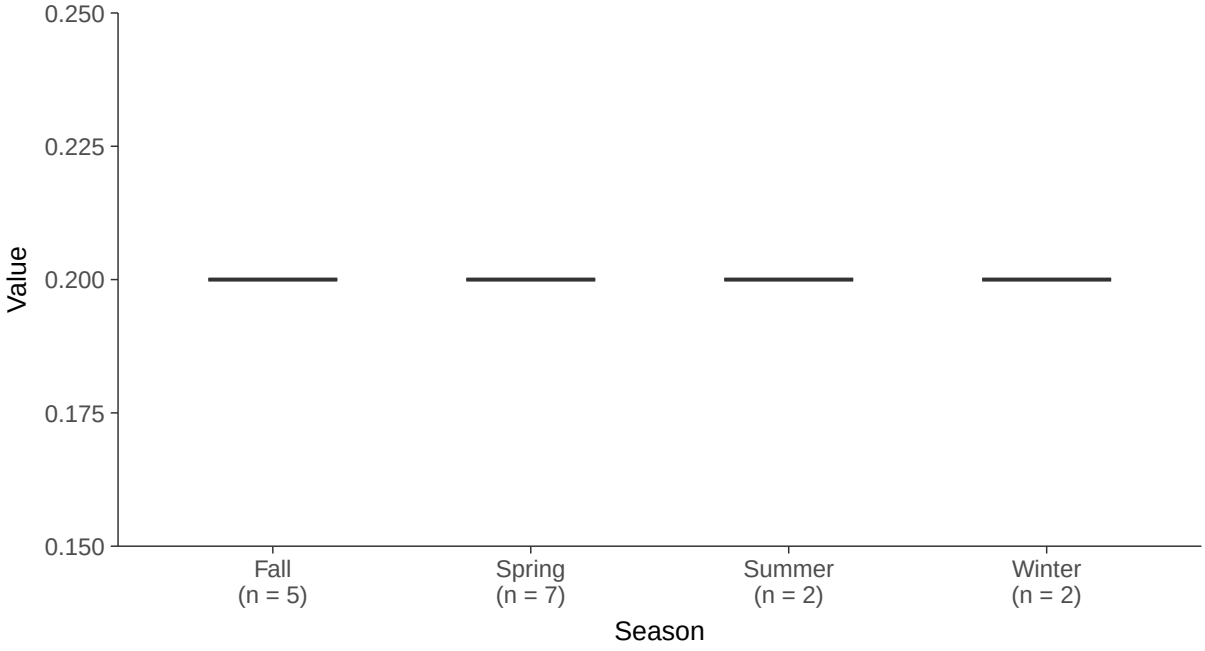
Boxplot

Mercury, MW-17003 (ug/L)



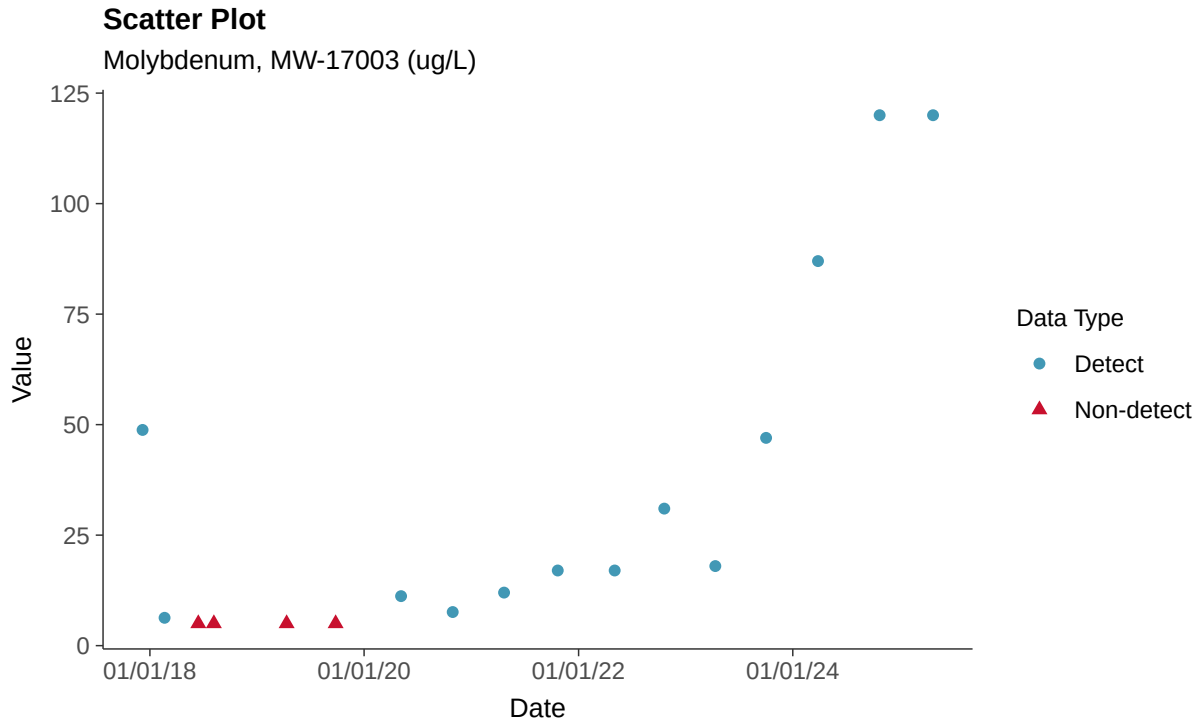
Boxplot by Season

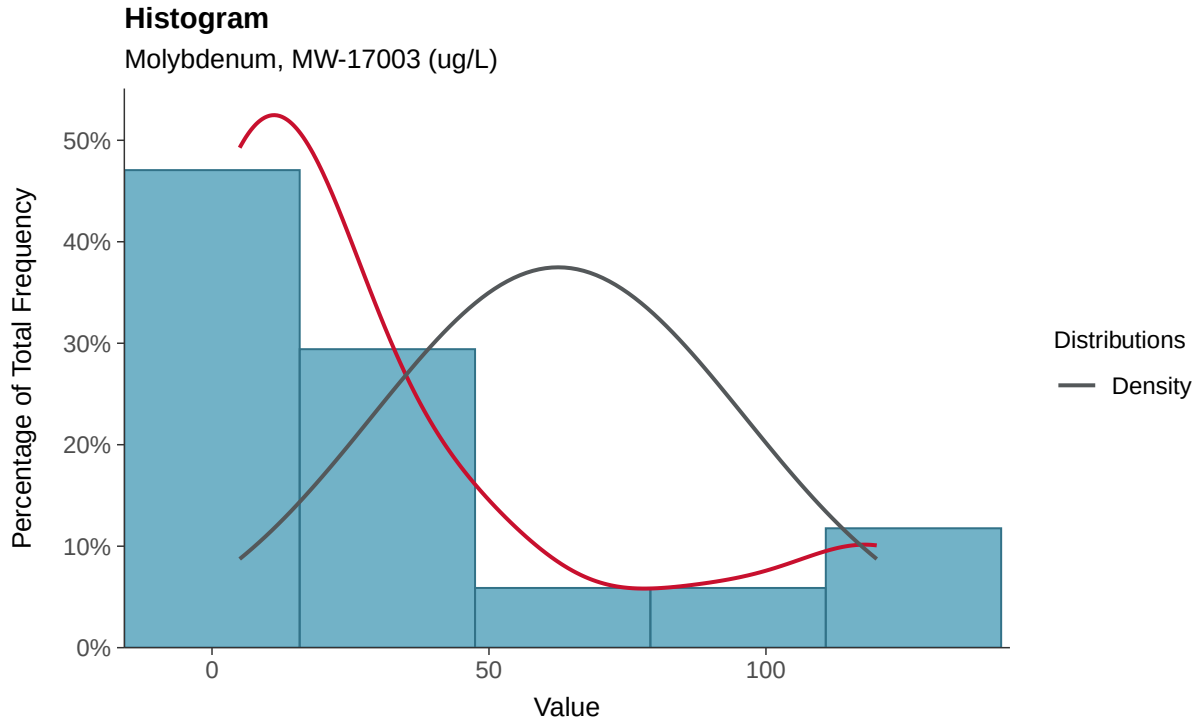
Mercury, MW-17003 (ug/L)



Appendix IV: Molybdenum, MW-17003

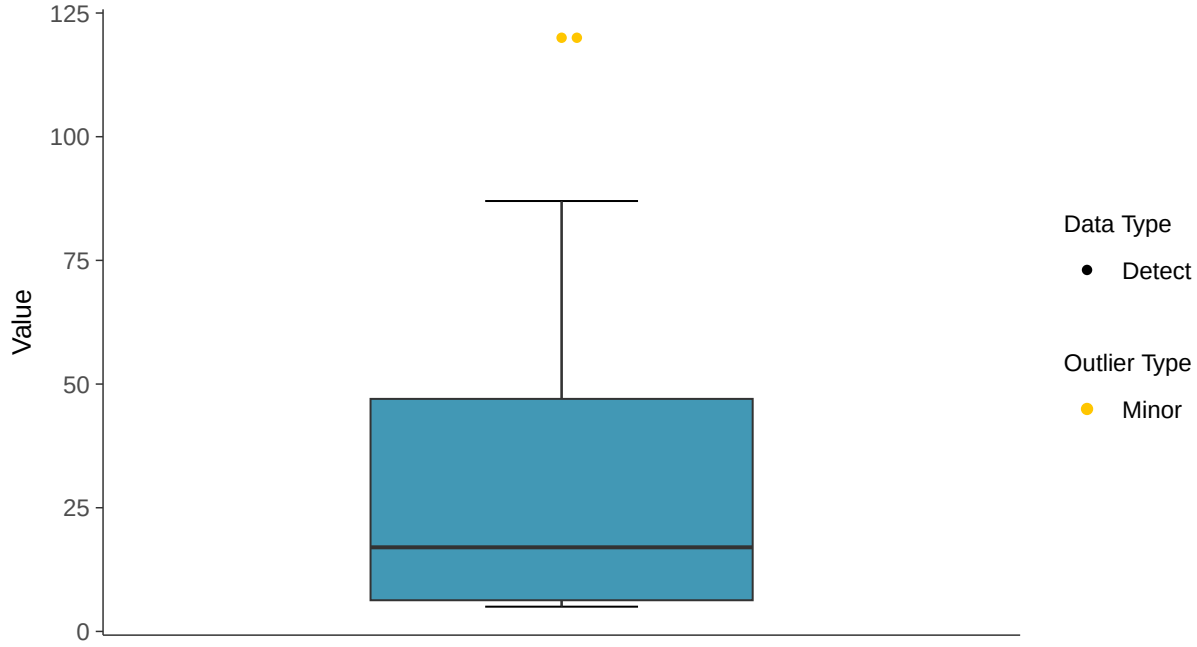
ID: 16_2_119





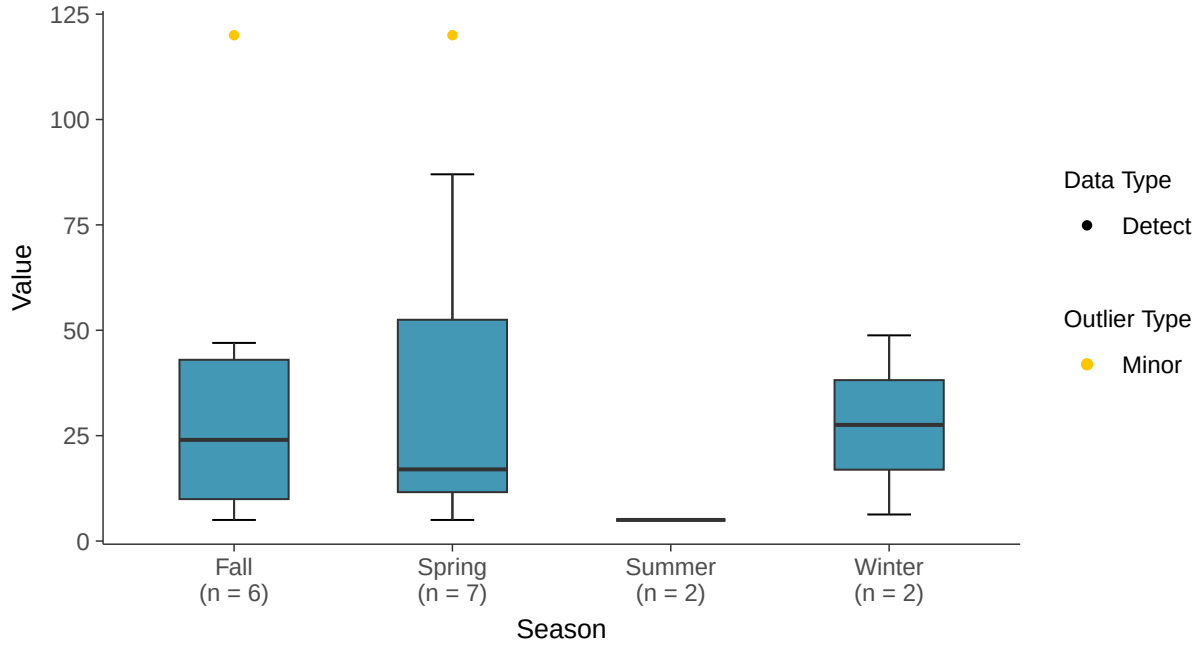
Boxplot

Molybdenum, MW-17003 (ug/L)



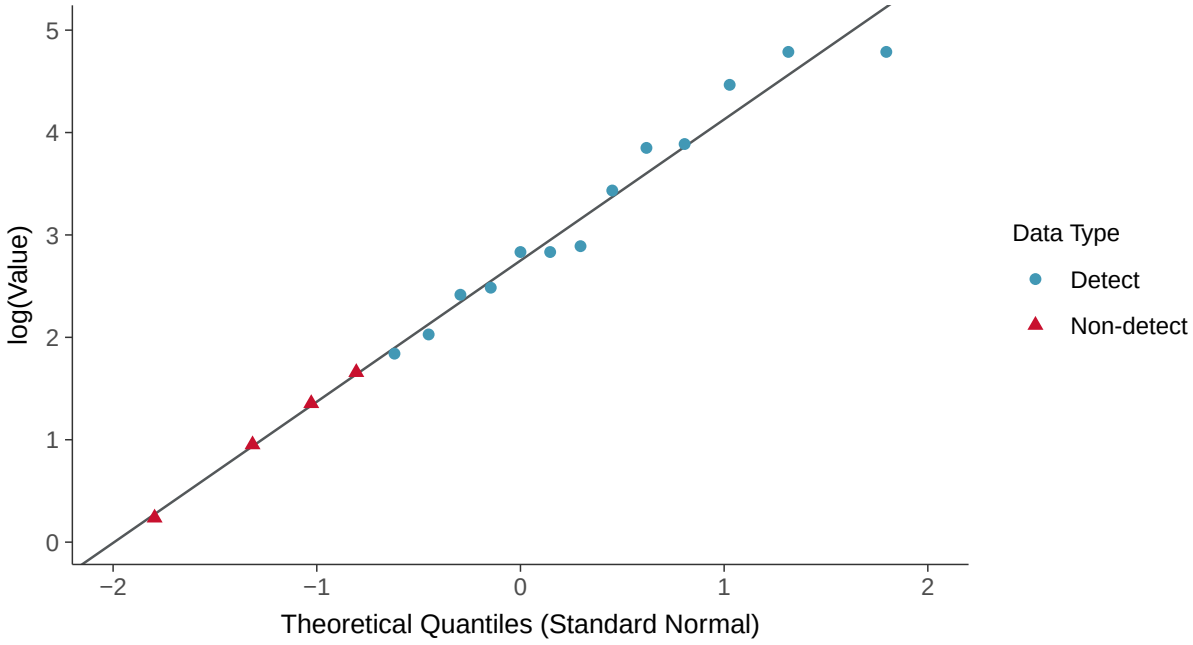
Boxplot by Season

Molybdenum, MW-17003 (ug/L)



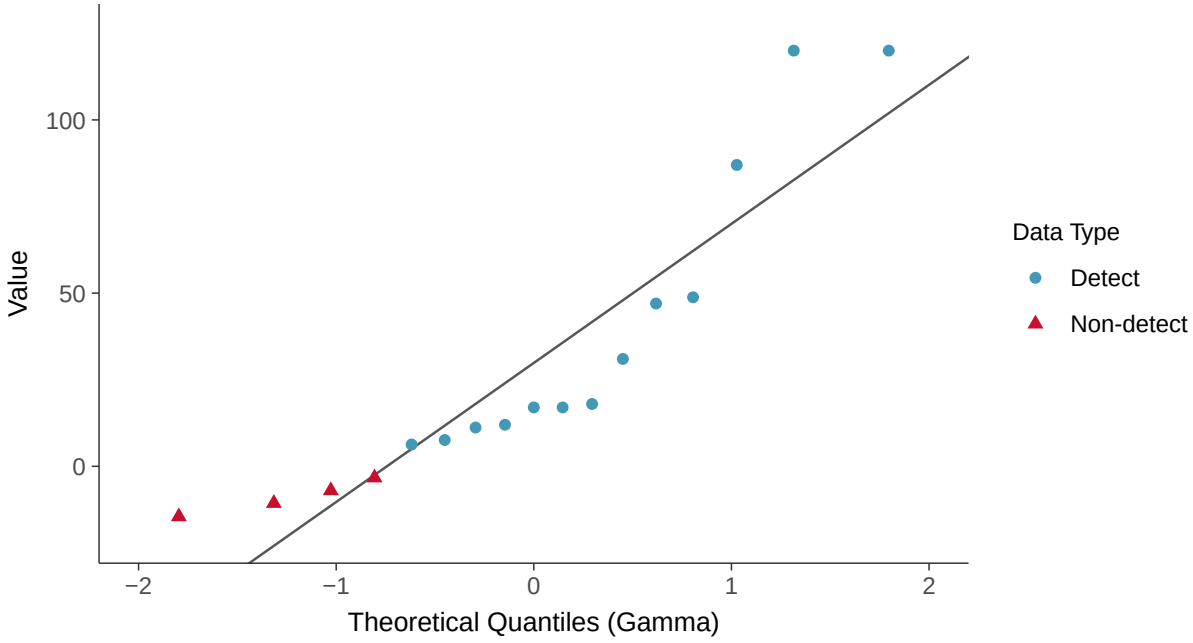
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17003 (ug/L)



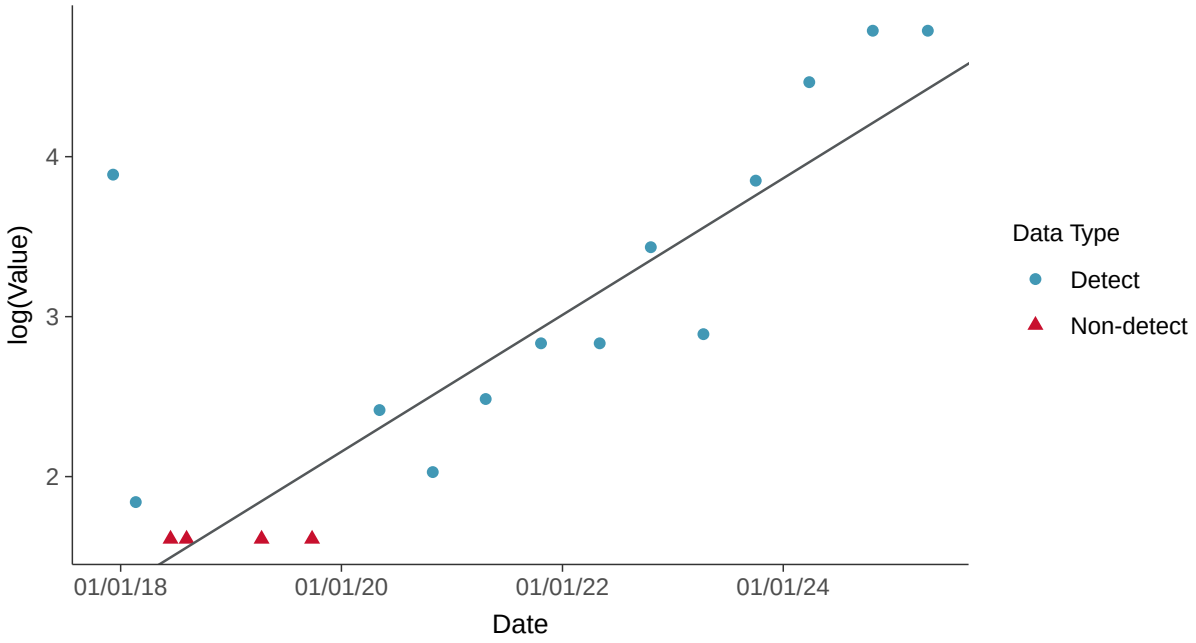
Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17003 (ug/L)



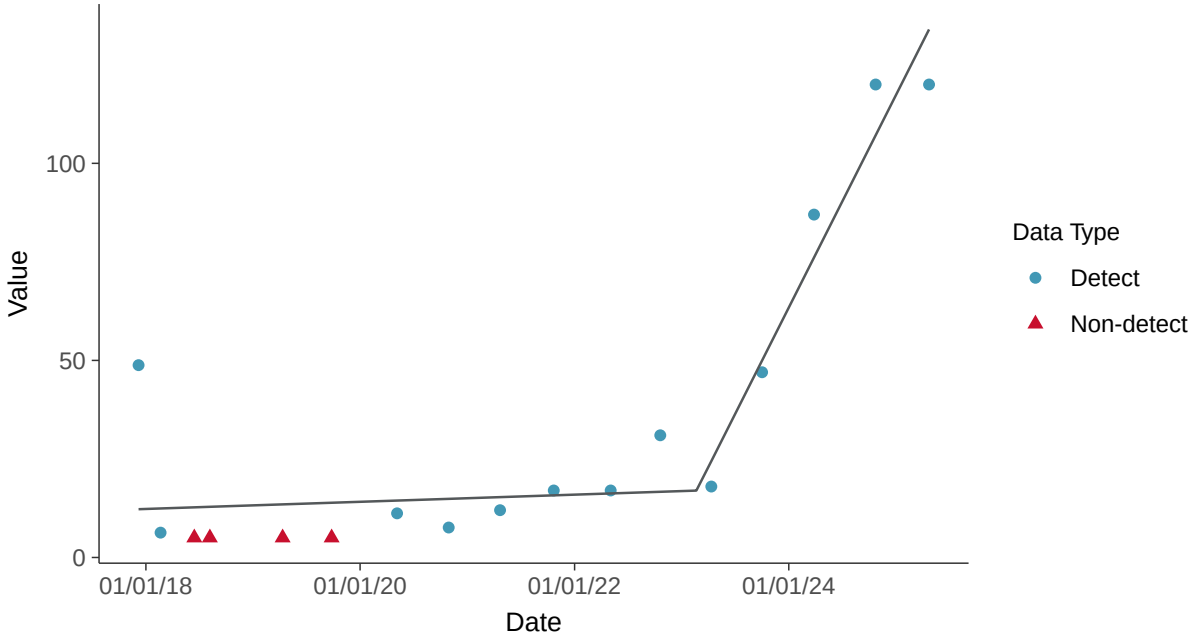
Trend Regression: Lognormal MLE

Molybdenum, MW-17003 (ug/L)



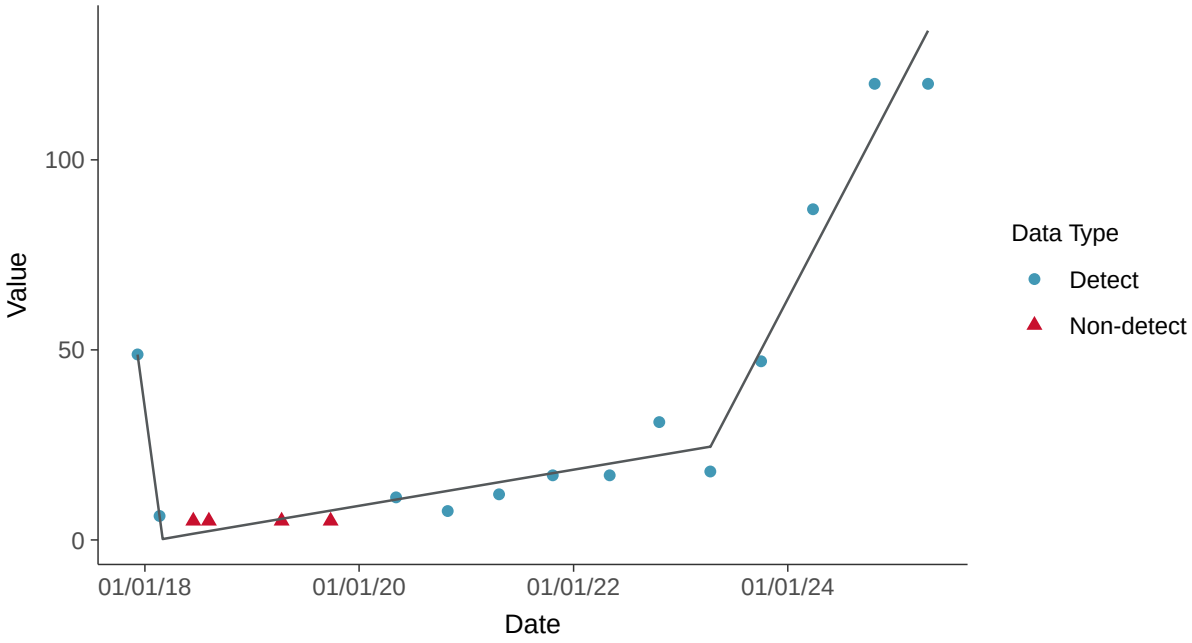
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-17003 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-17003 (ug/L)

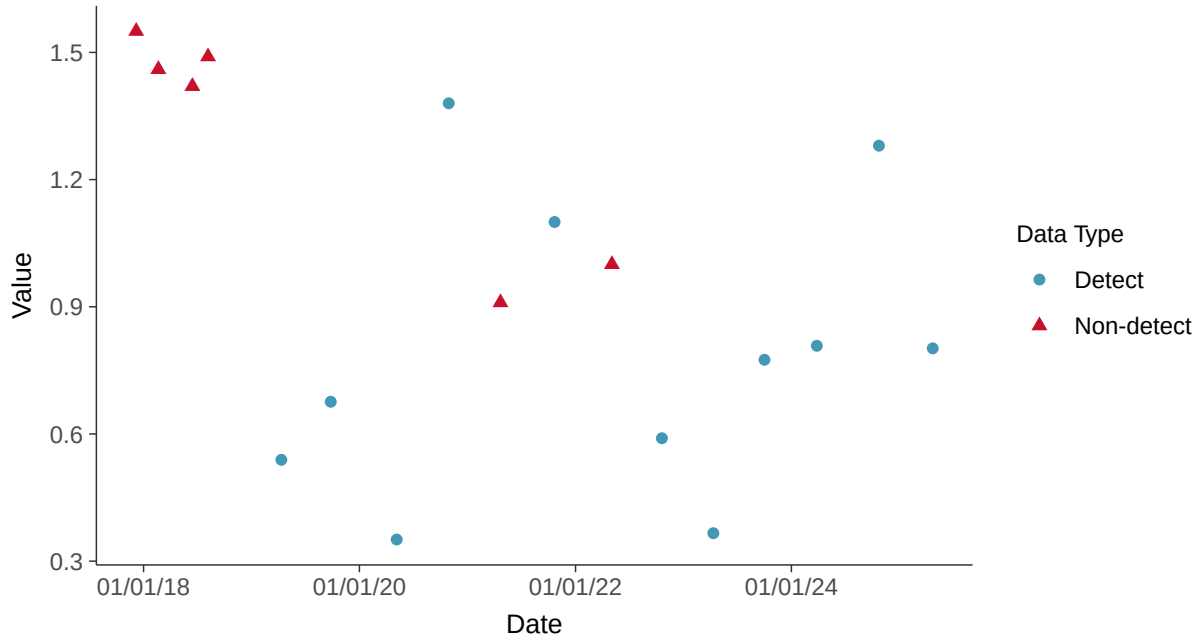


Appendix IV: Radium-226+228, MW-17003

ID: 16_2_125

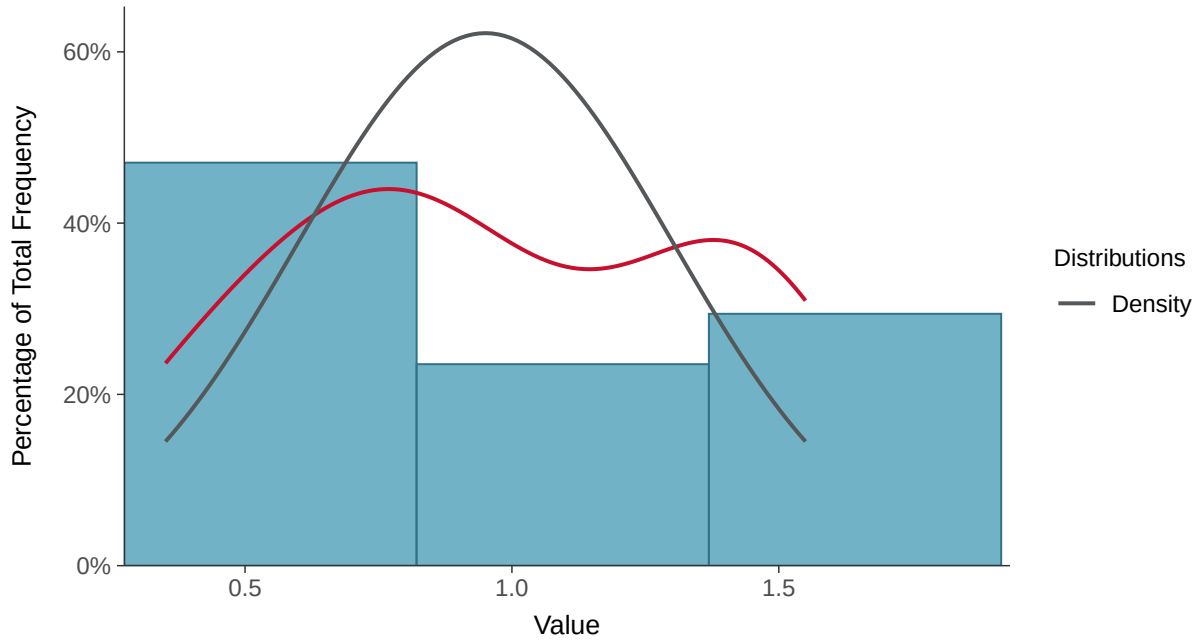
Scatter Plot

Radium-226+228, MW-17003 (pCi/L)



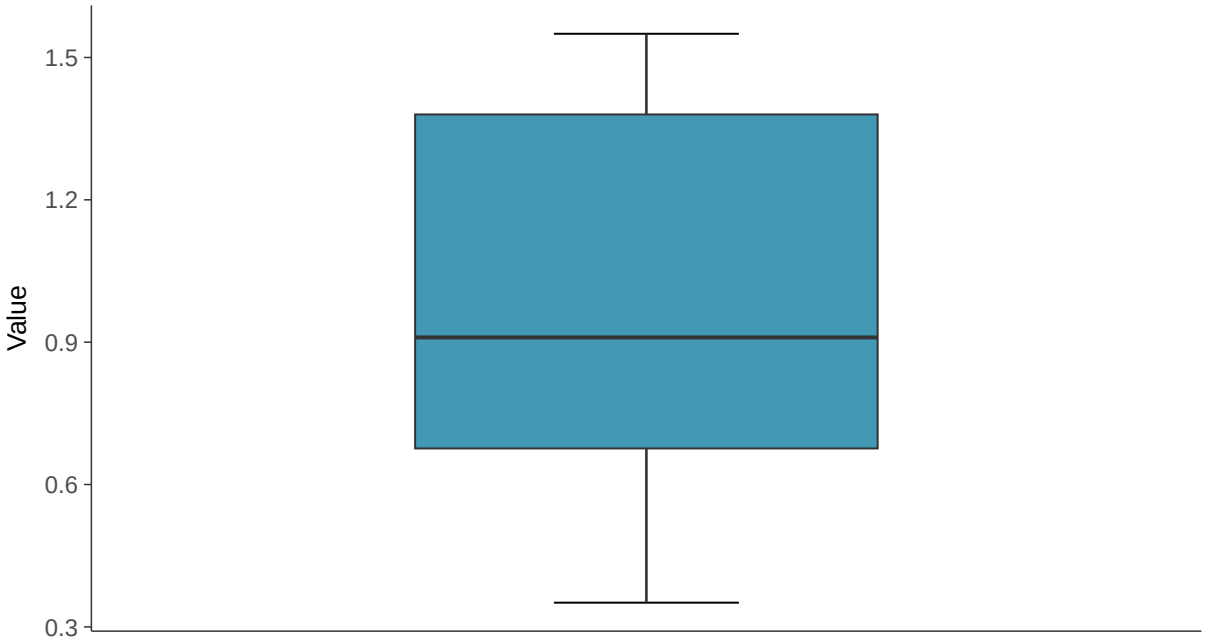
Histogram

Radium-226+228, MW-17003 (pCi/L)



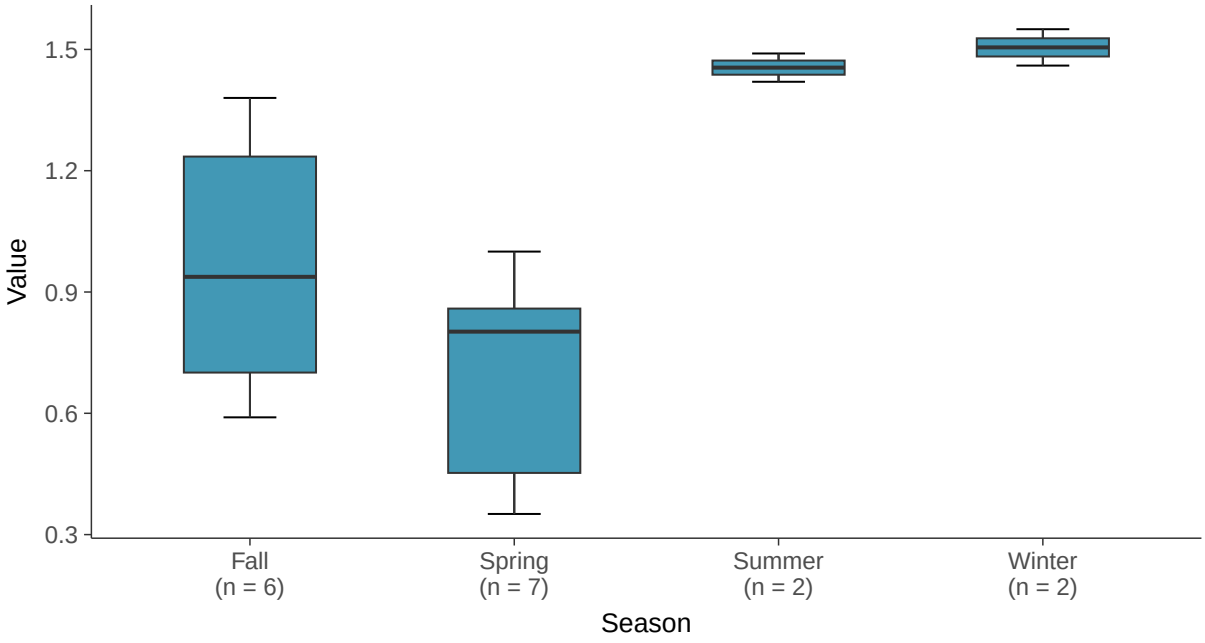
Boxplot

Radium-226+228, MW-17003 (pCi/L)



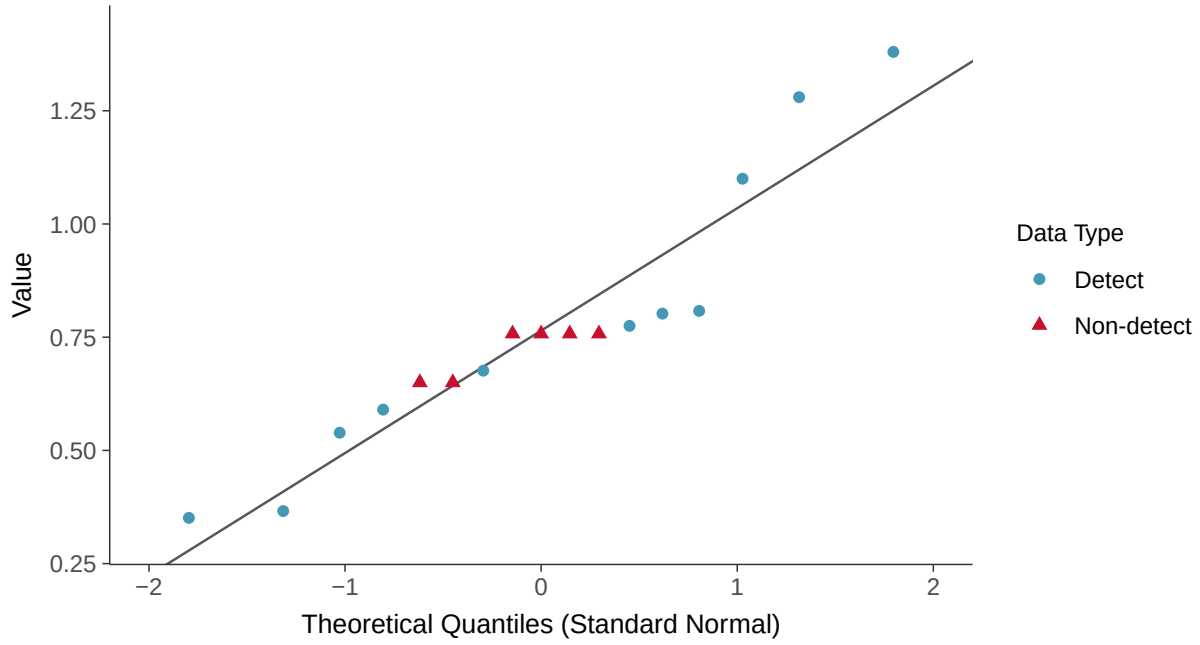
Boxplot by Season

Radium-226+228, MW-17003 (pCi/L)



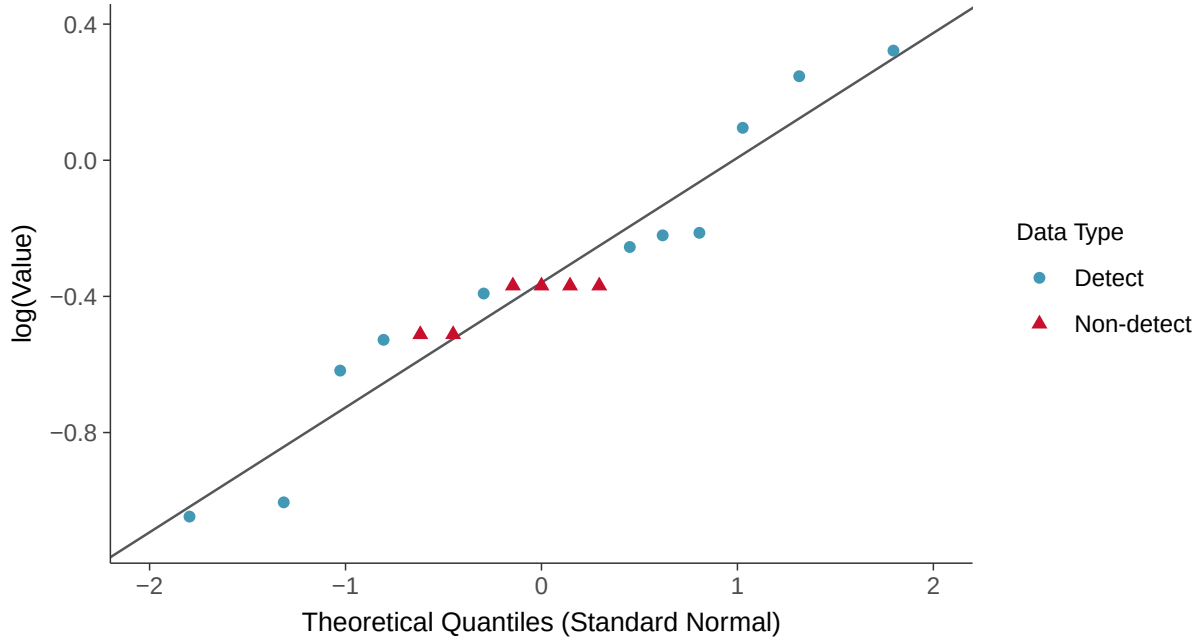
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-17003 (pCi/L)



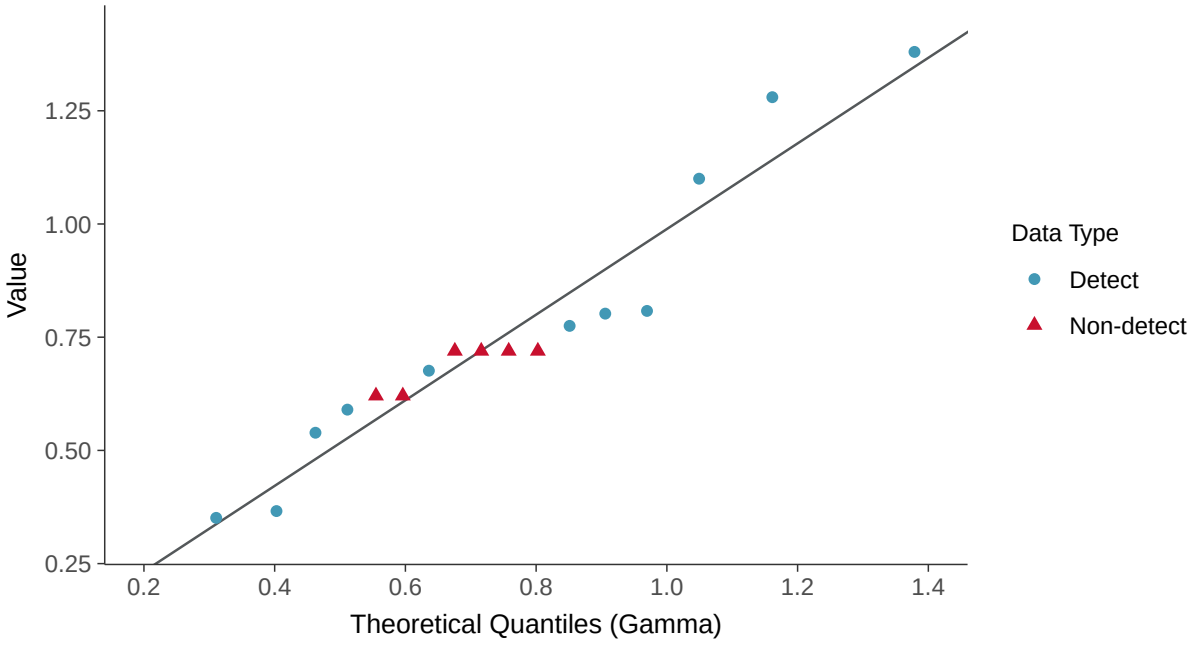
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-17003 (pCi/L)



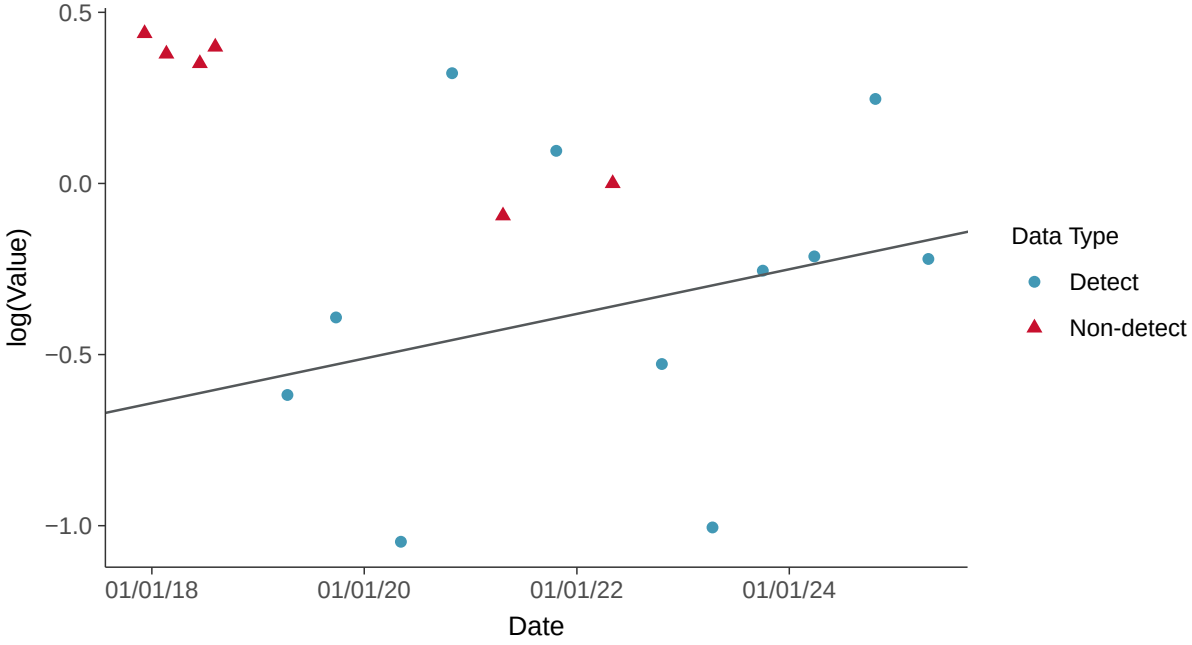
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-17003 (pCi/L)



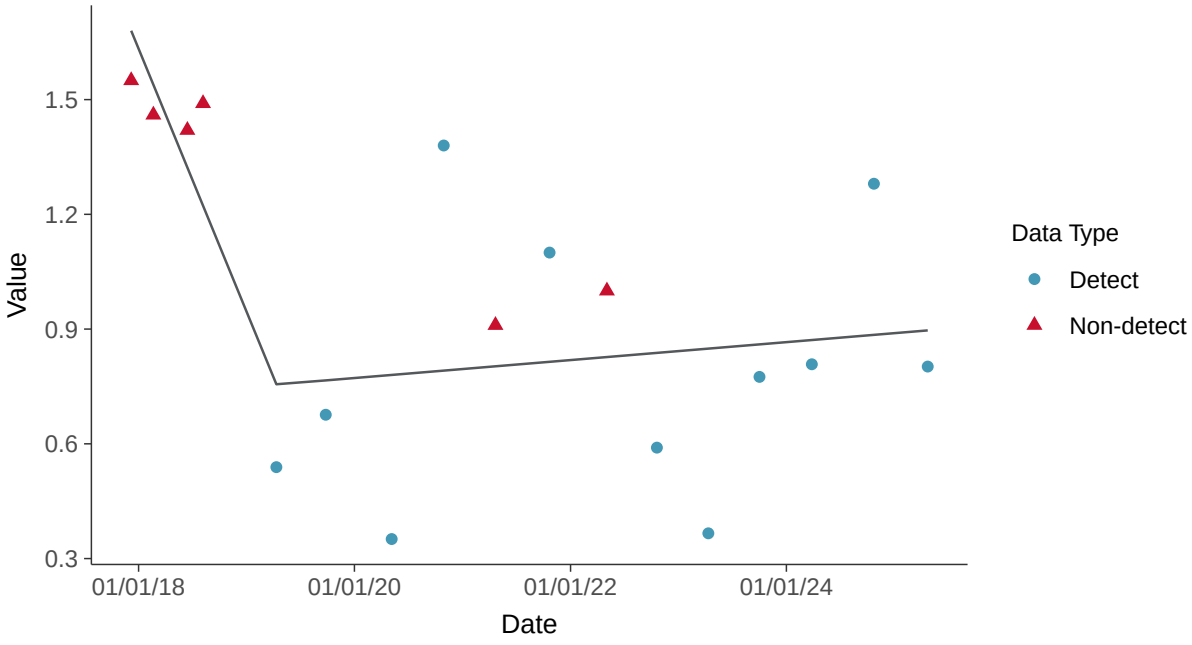
Trend Regression: Lognormal MLE

Radium-226+228, MW-17003 (pCi/L)



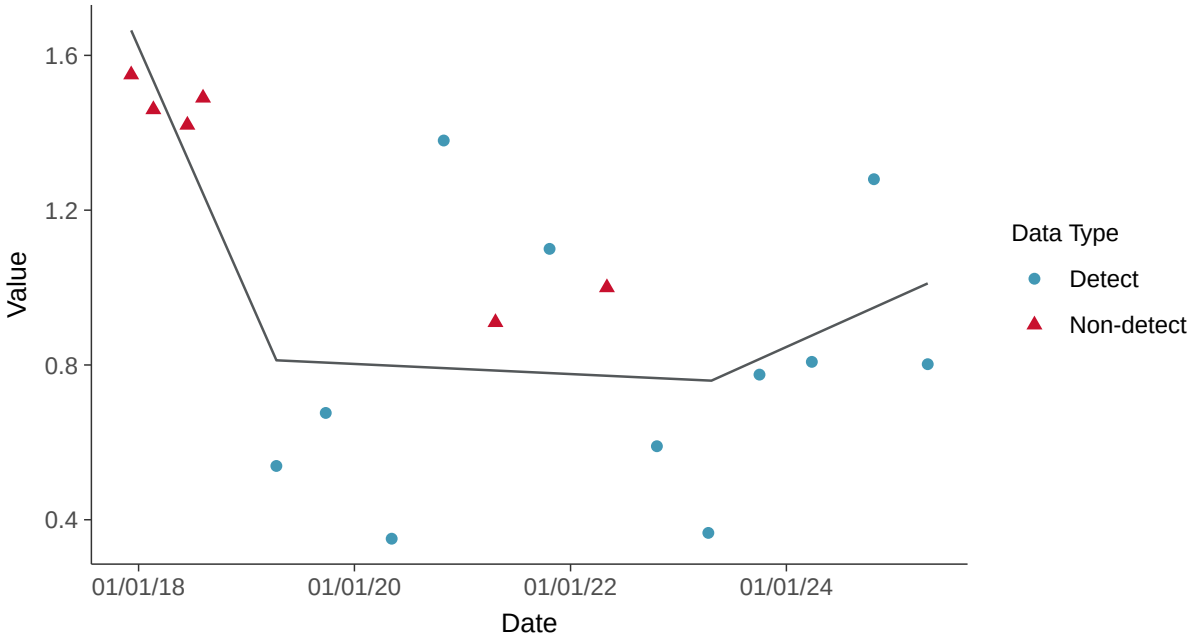
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-17003 (pCi/L)



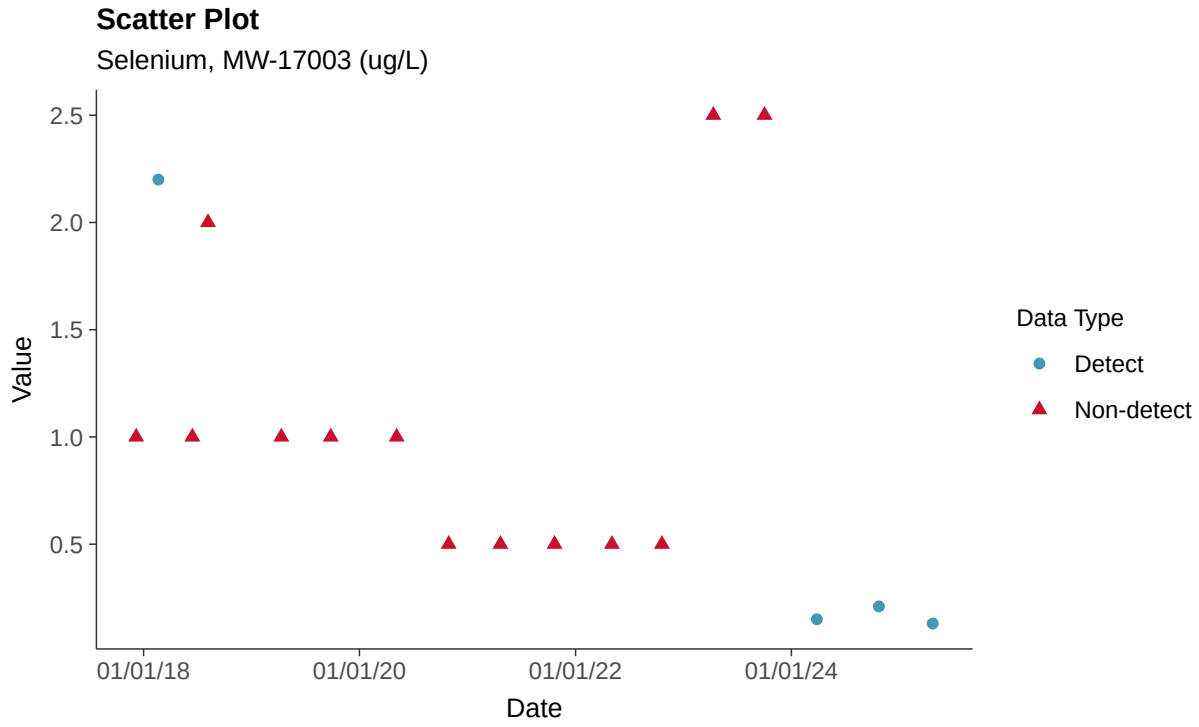
Trend Regression: Piecewise Linear-Linear-Linear

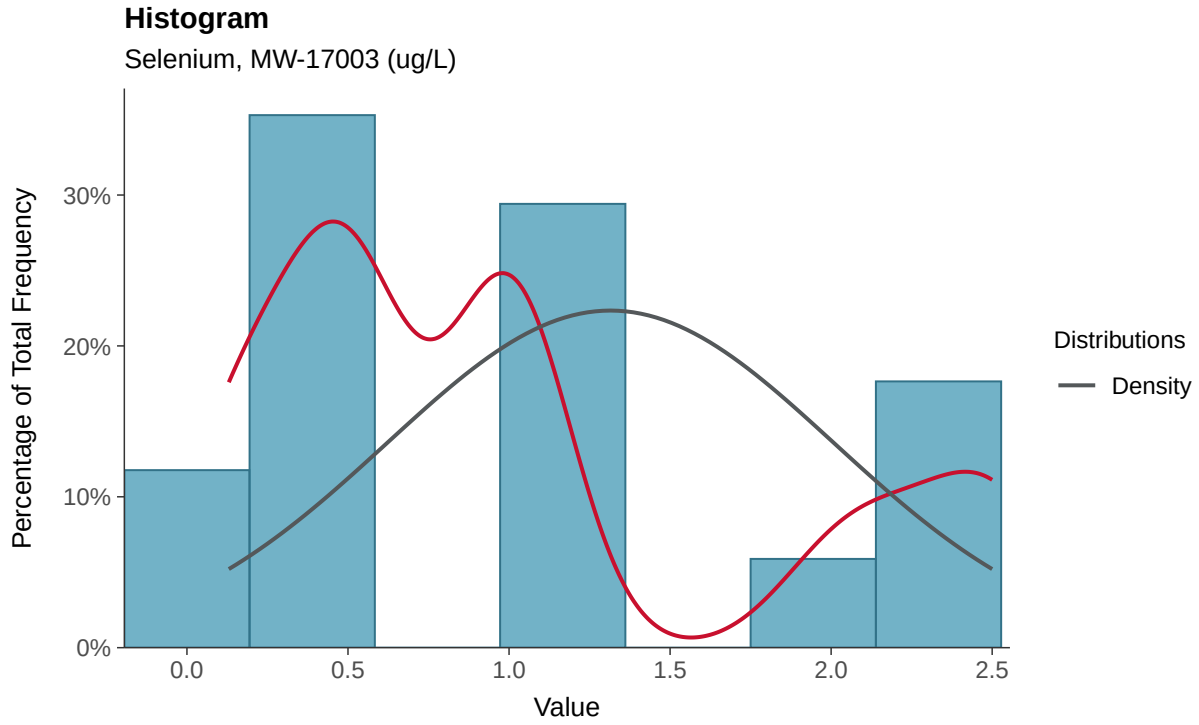
Radium-226+228, MW-17003 (pCi/L)



Appendix IV: Selenium, MW-17003

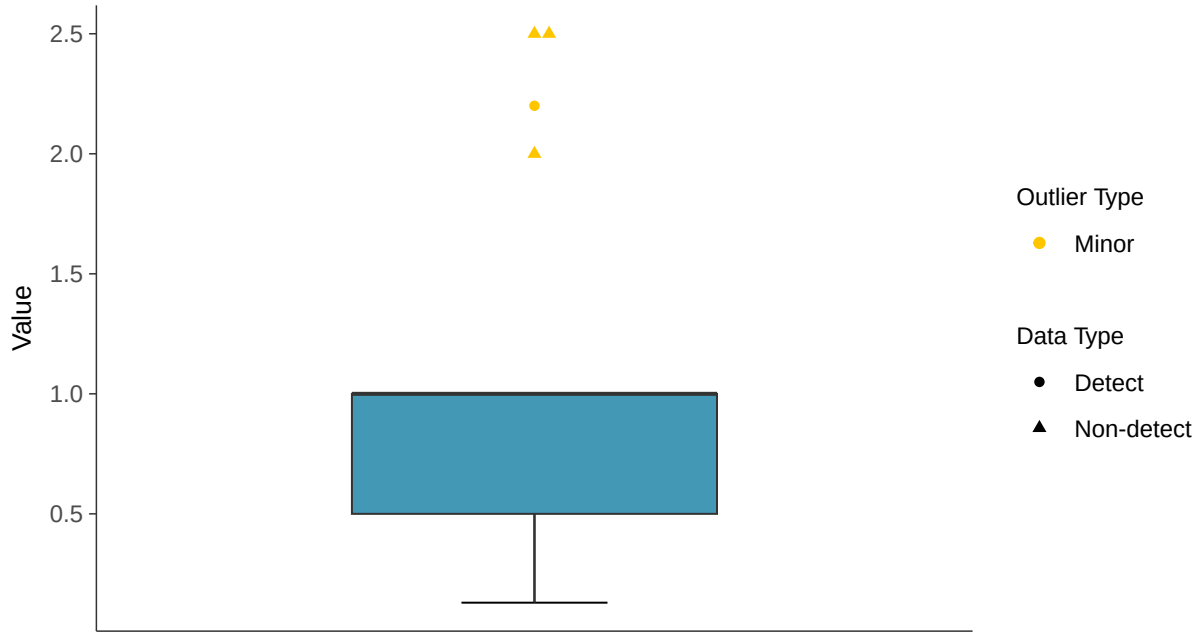
ID: 16_2_127





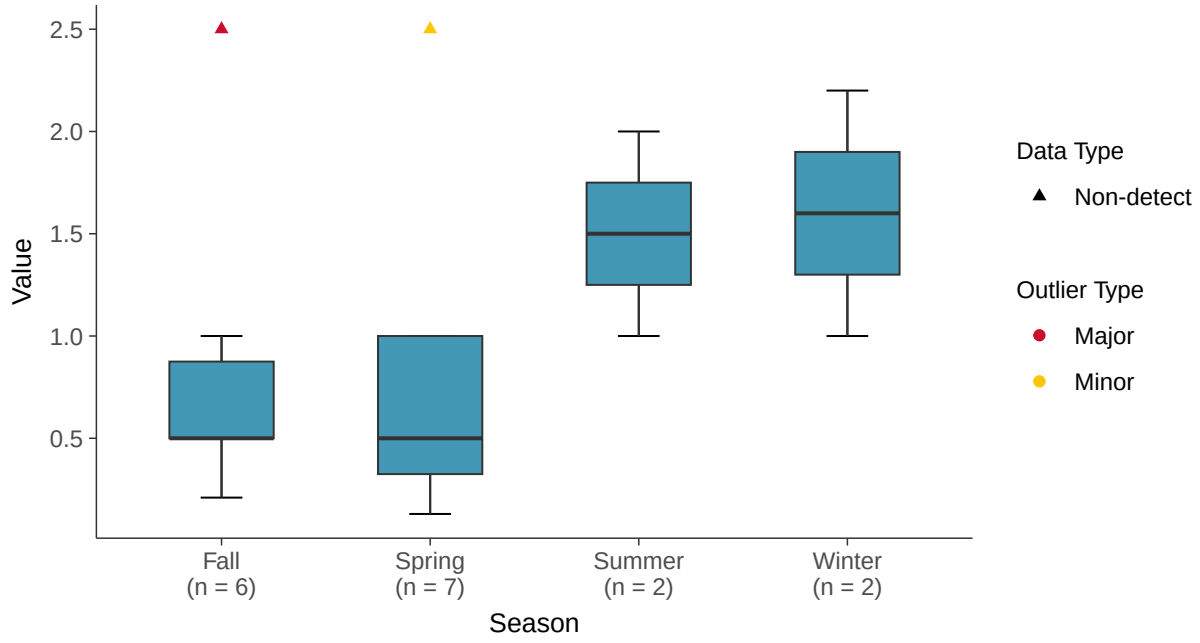
Boxplot

Selenium, MW-17003 (ug/L)



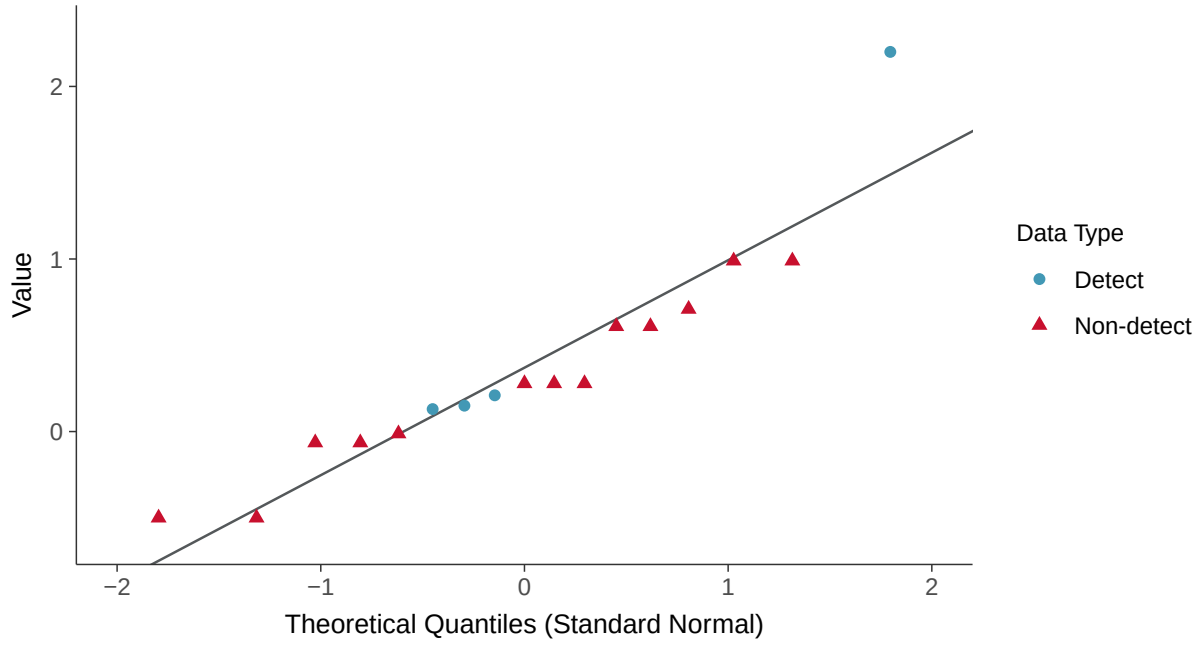
Boxplot by Season

Selenium, MW-17003 (ug/L)



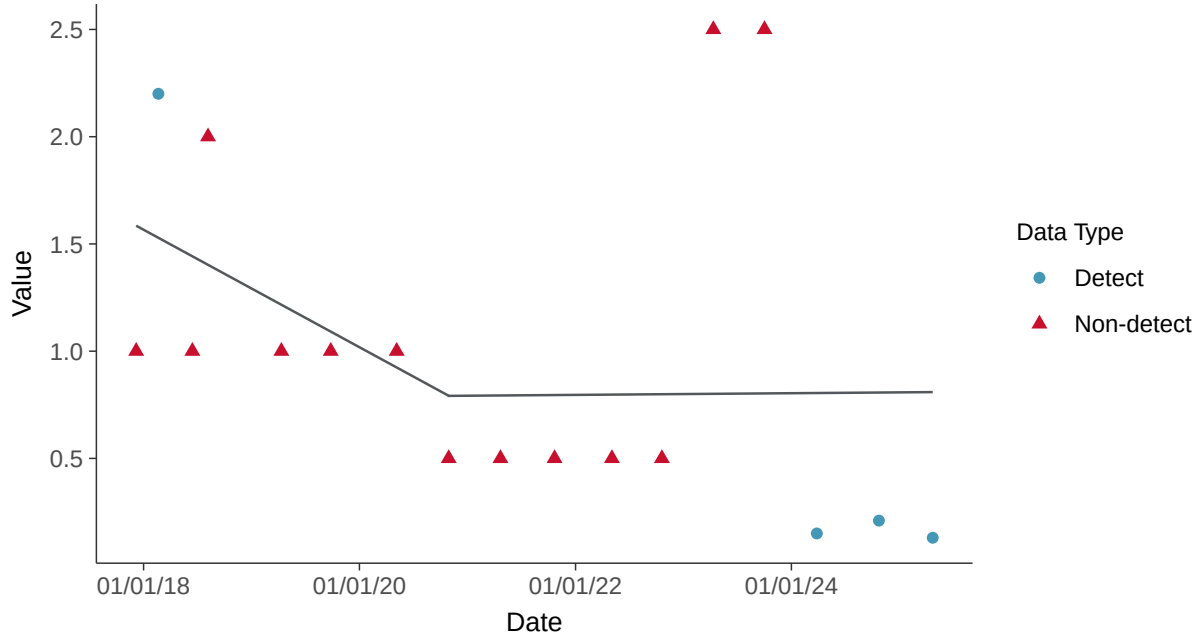
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-17003 (ug/L)



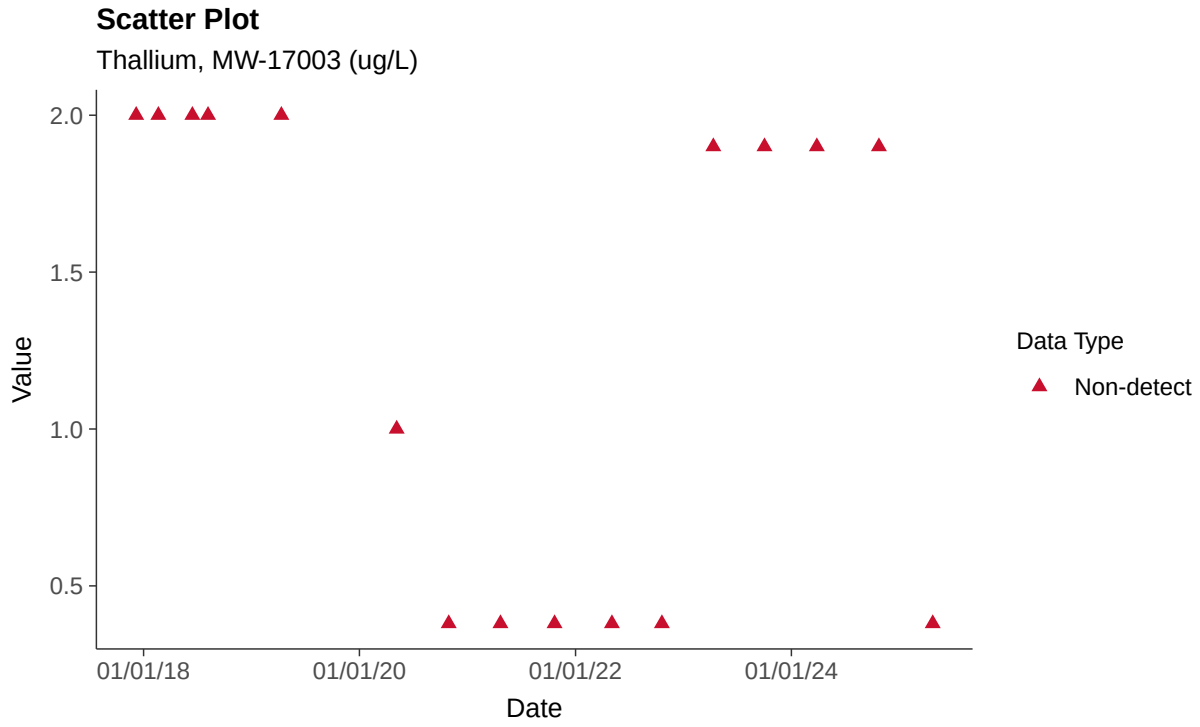
Trend Regression: Piecewise Linear-Linear

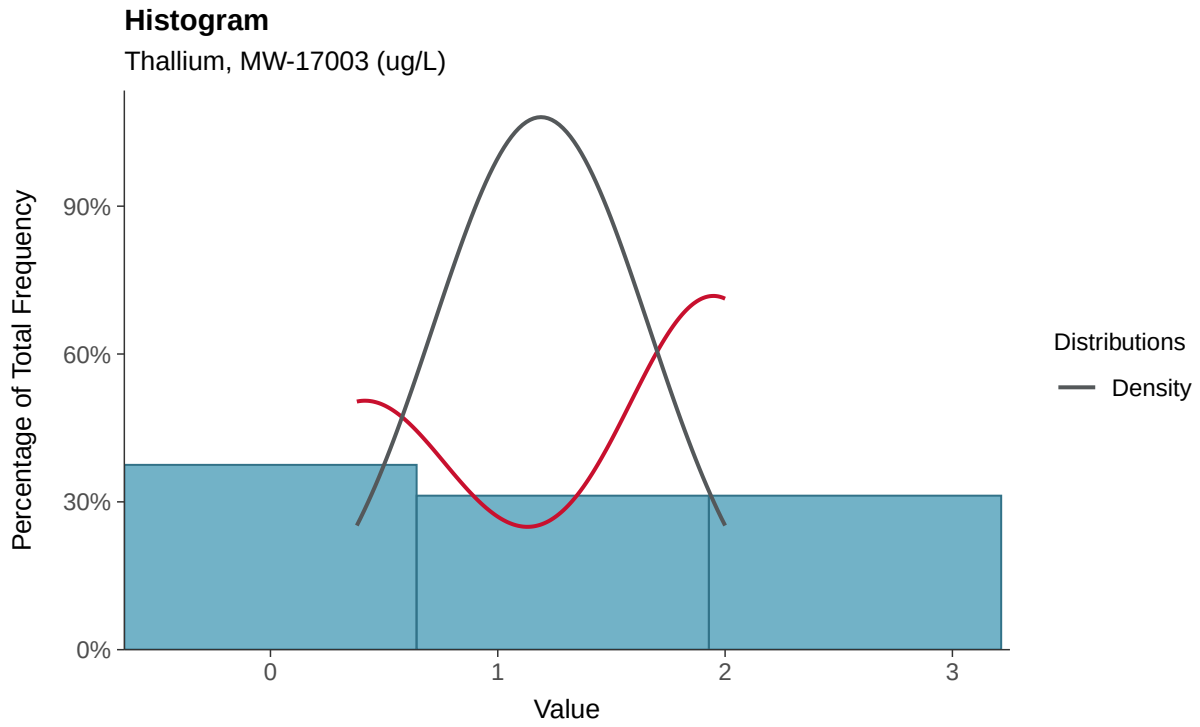
Selenium, MW-17003 (ug/L)



Appendix IV: Thallium, MW-17003

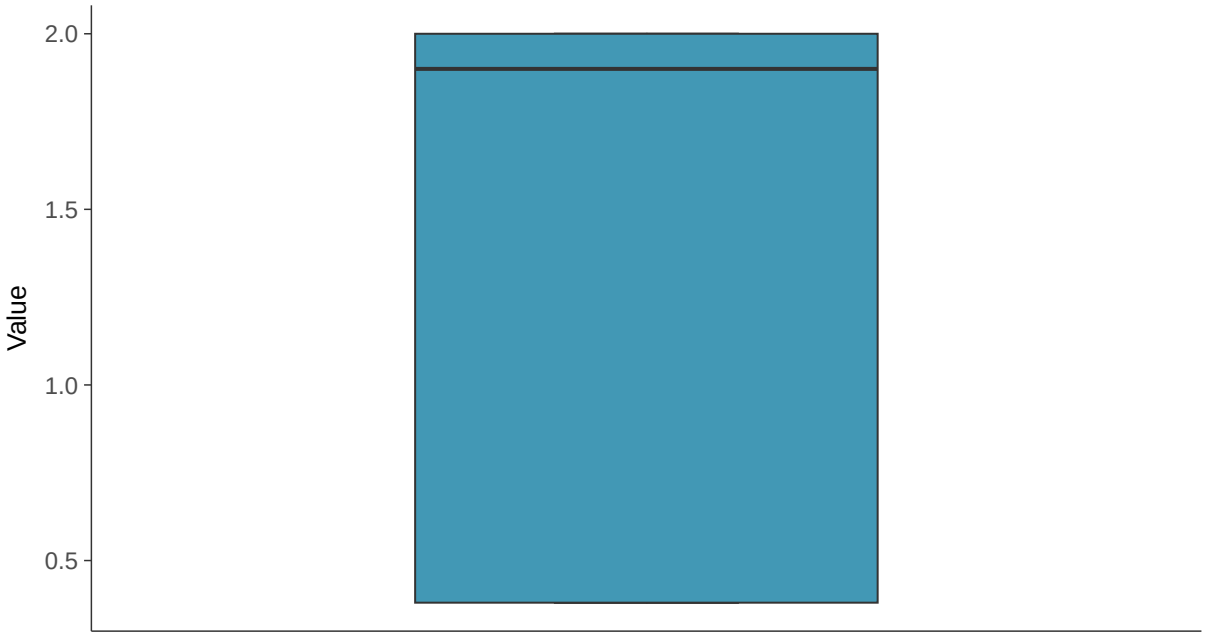
ID: 16_2_131





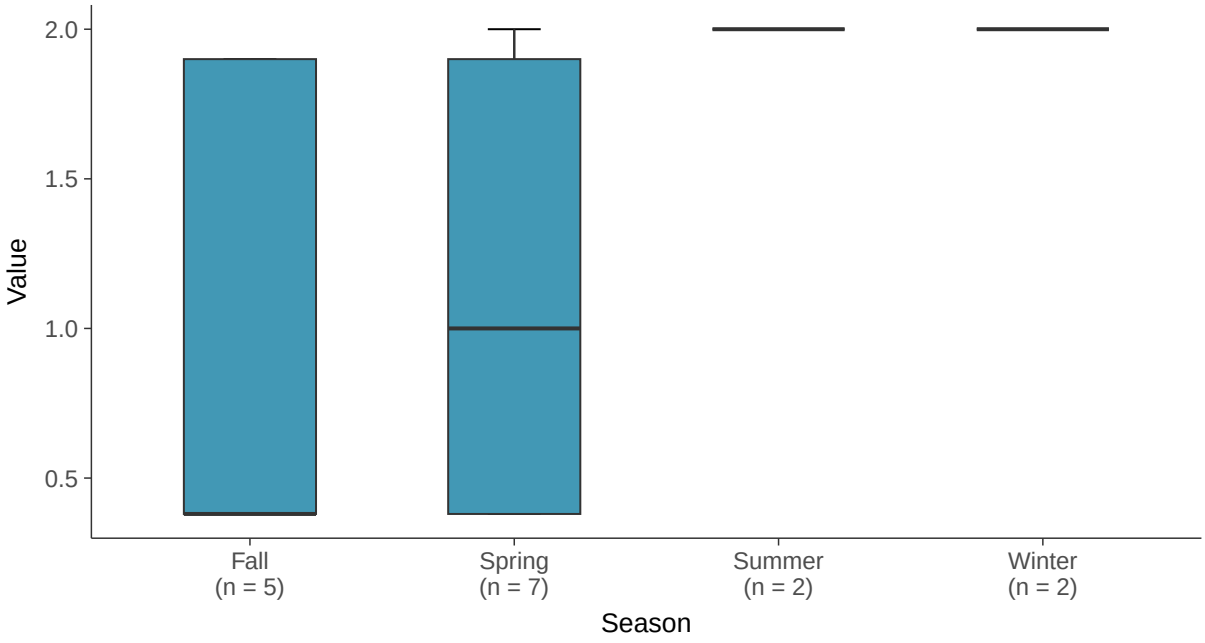
Boxplot

Thallium, MW-17003 (ug/L)



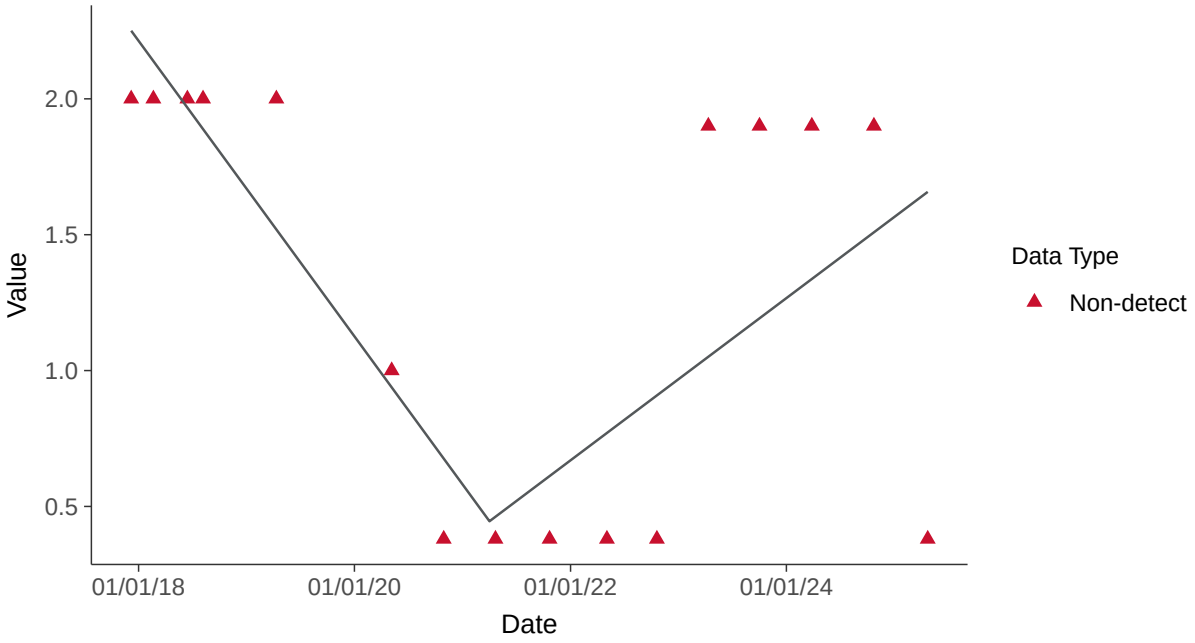
Boxplot by Season

Thallium, MW-17003 (ug/L)



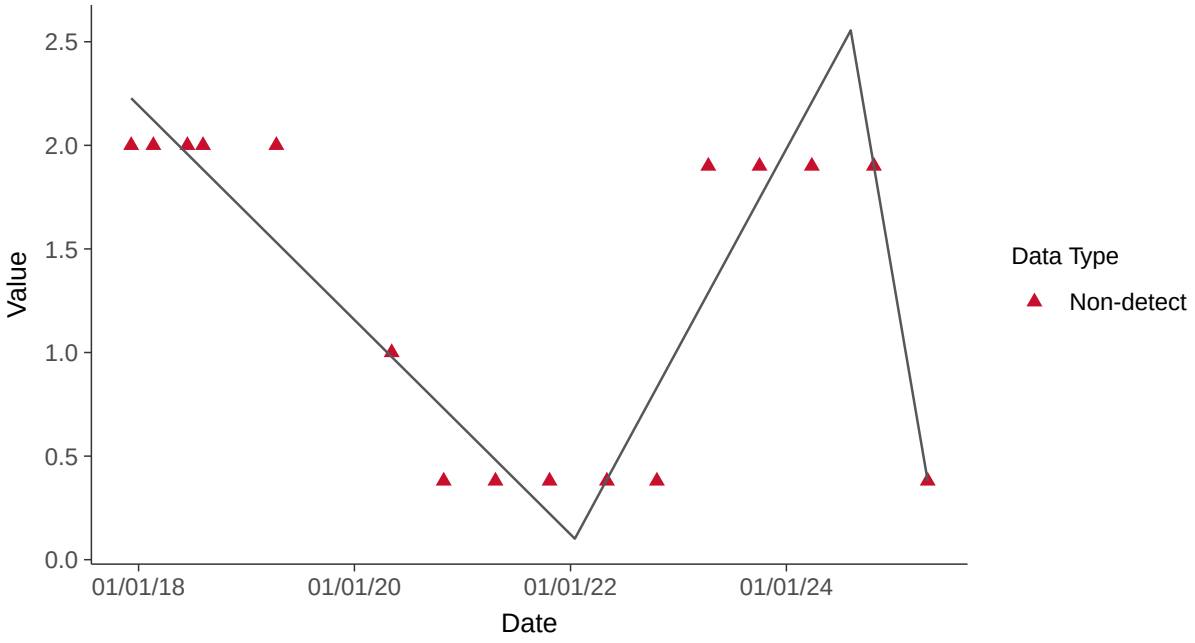
Trend Regression: Piecewise Linear-Linear

Thallium, MW-17003 (ug/L)



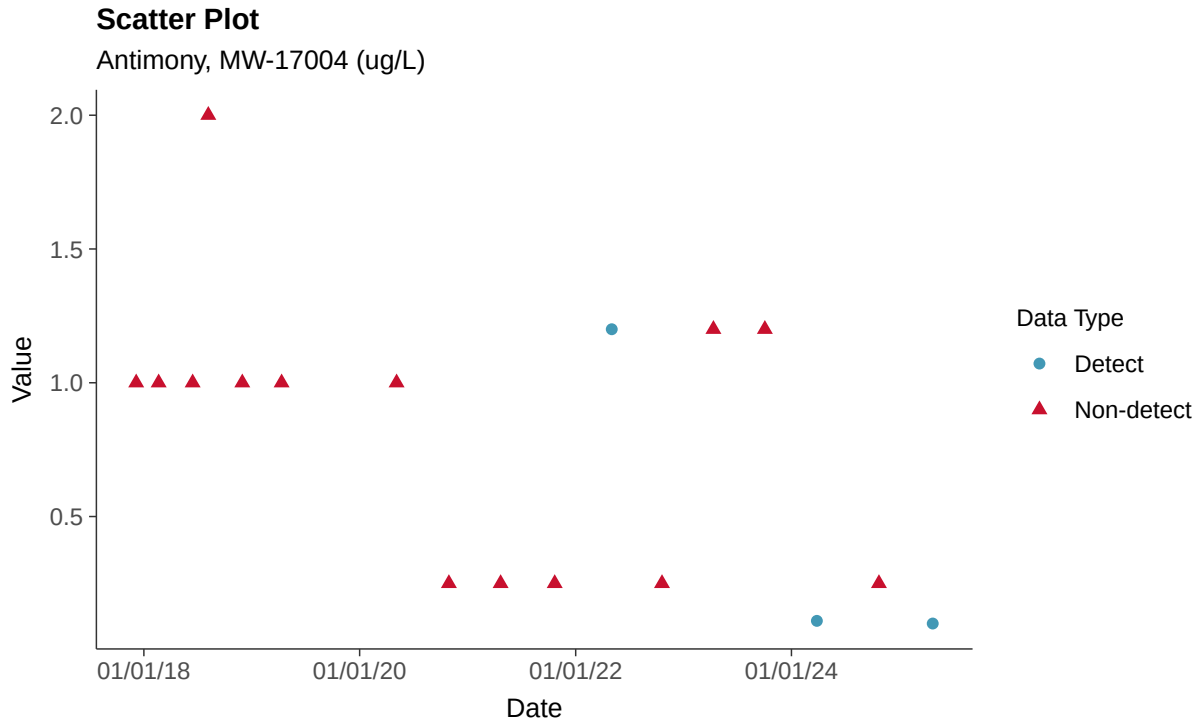
Trend Regression: Piecewise Linear-Linear-Linear

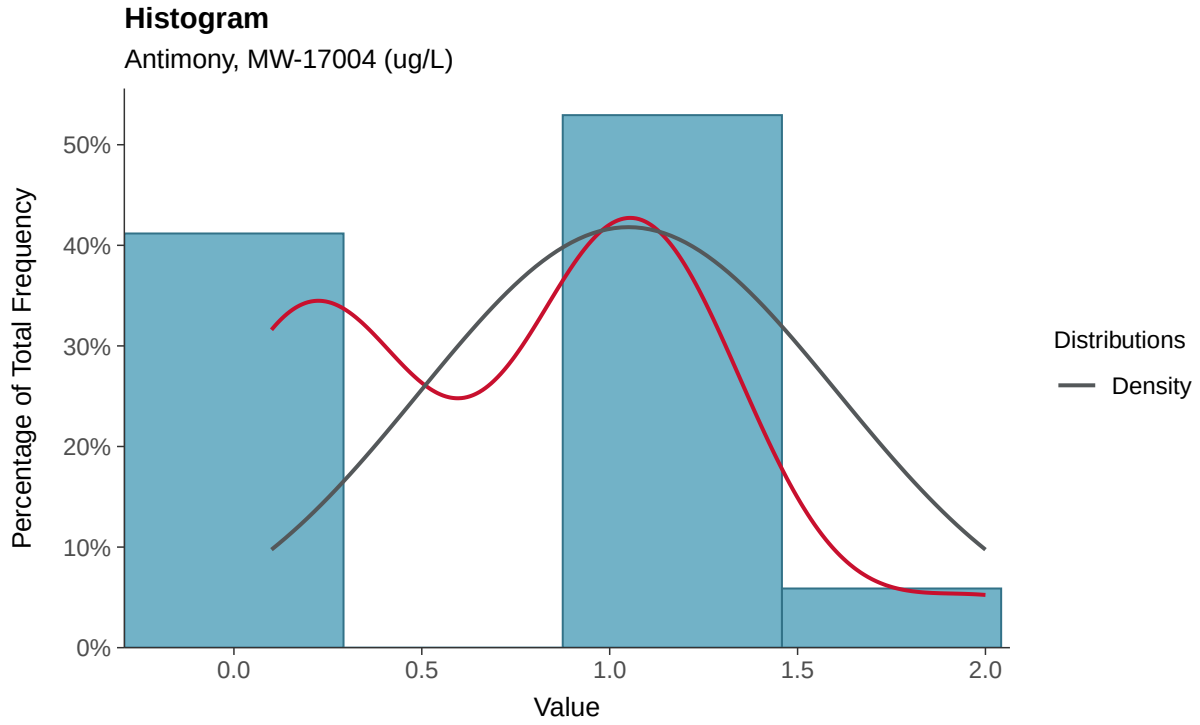
Thallium, MW-17003 (ug/L)



Appendix IV: Antimony, MW-17004

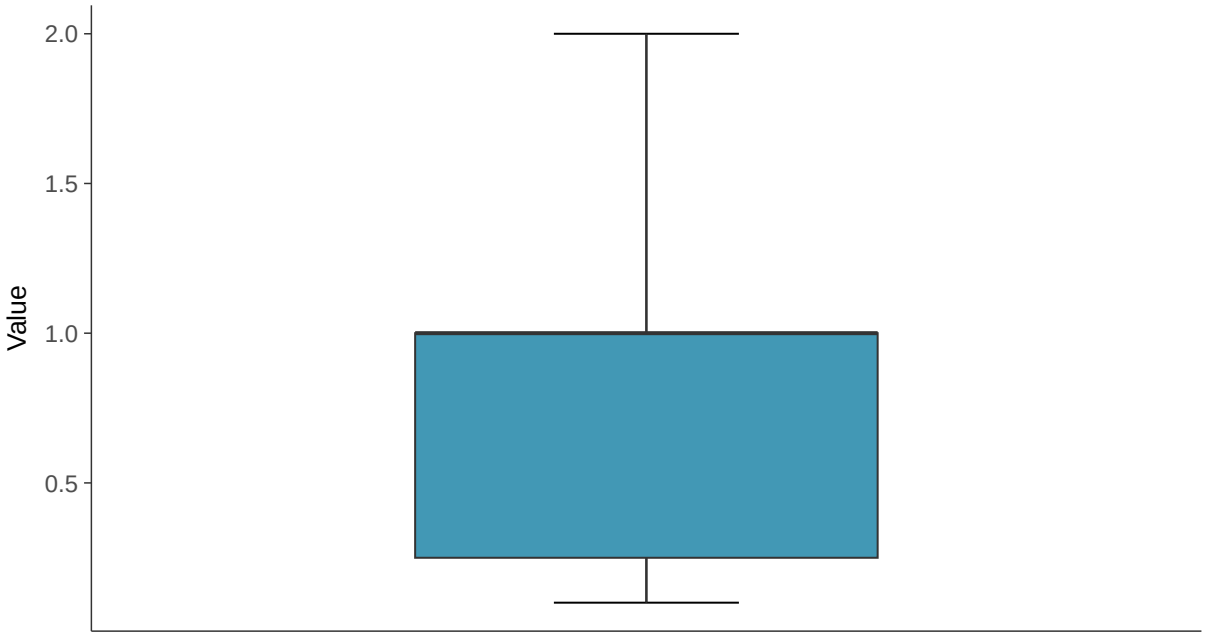
ID: 17_2_101





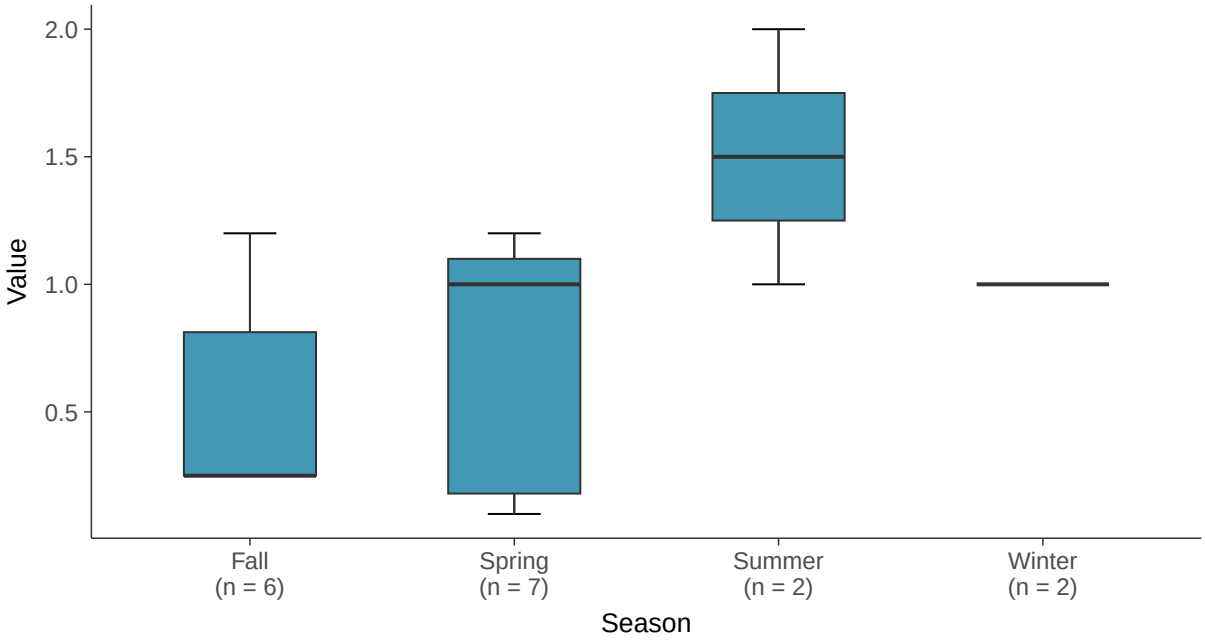
Boxplot

Antimony, MW-17004 (ug/L)



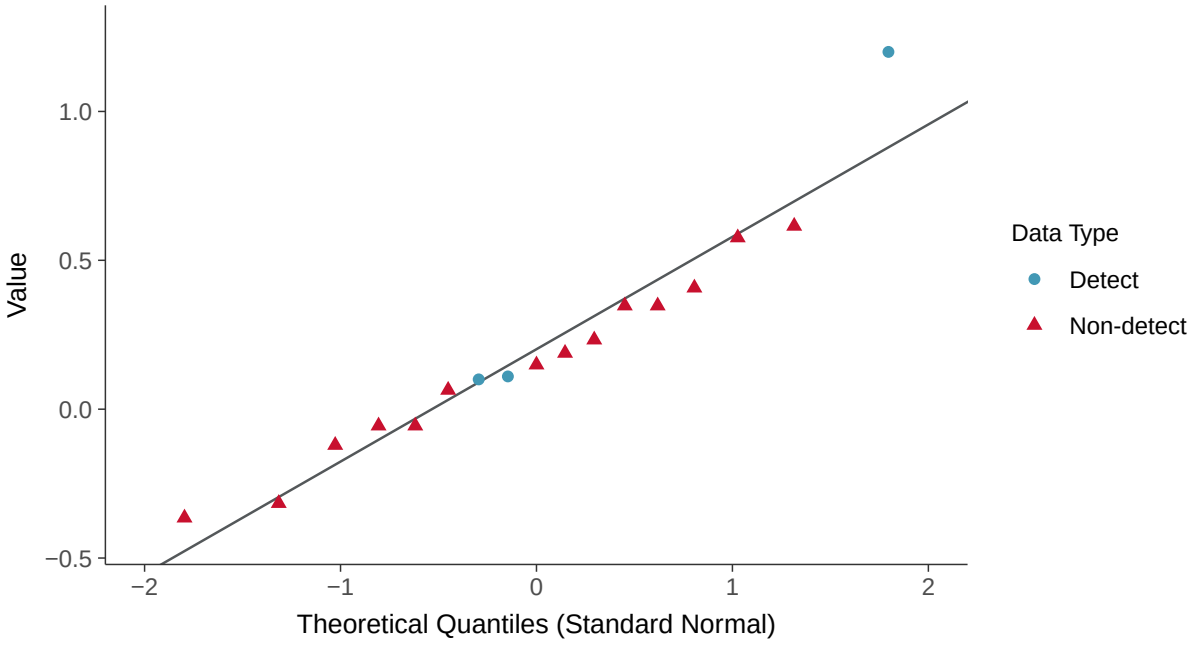
Boxplot by Season

Antimony, MW-17004 (ug/L)



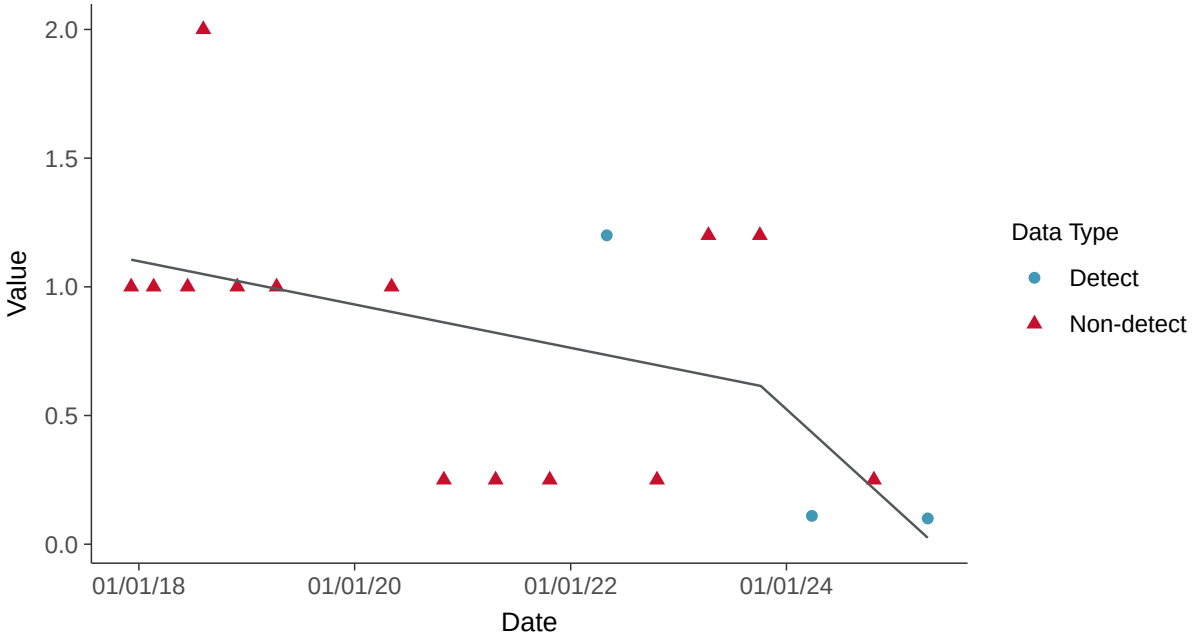
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-17004 (ug/L)



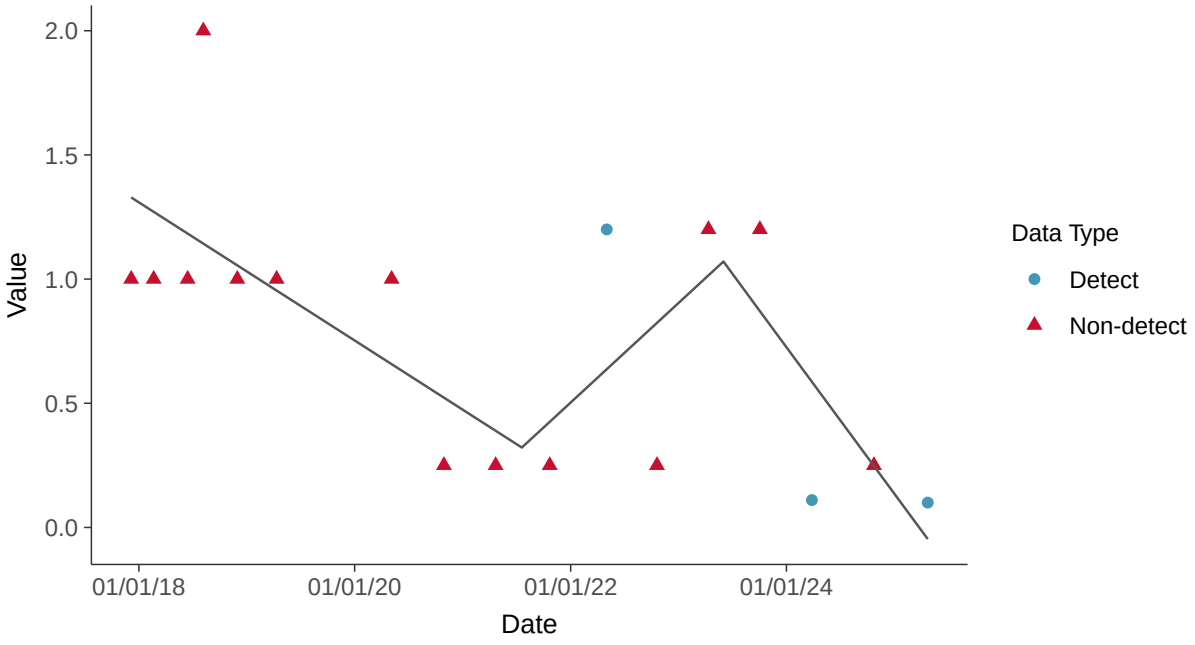
Trend Regression: Piecewise Linear-Linear

Antimony, MW-17004 (ug/L)



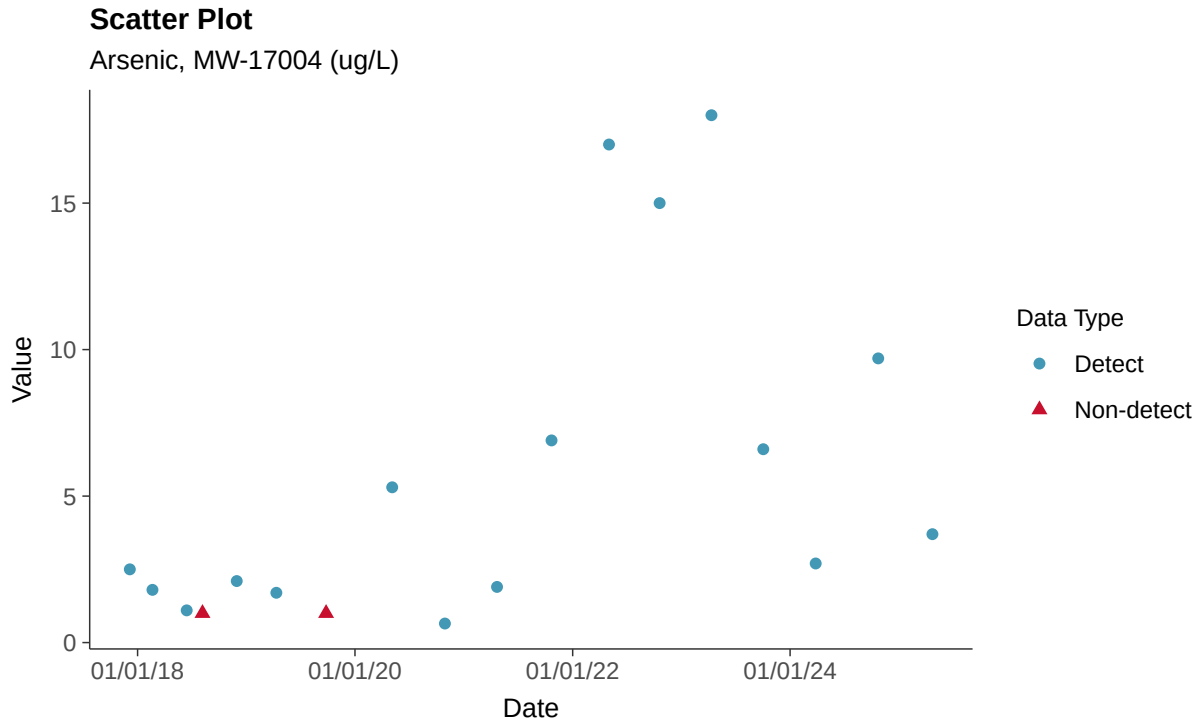
Trend Regression: Piecewise Linear-Linear-Linear

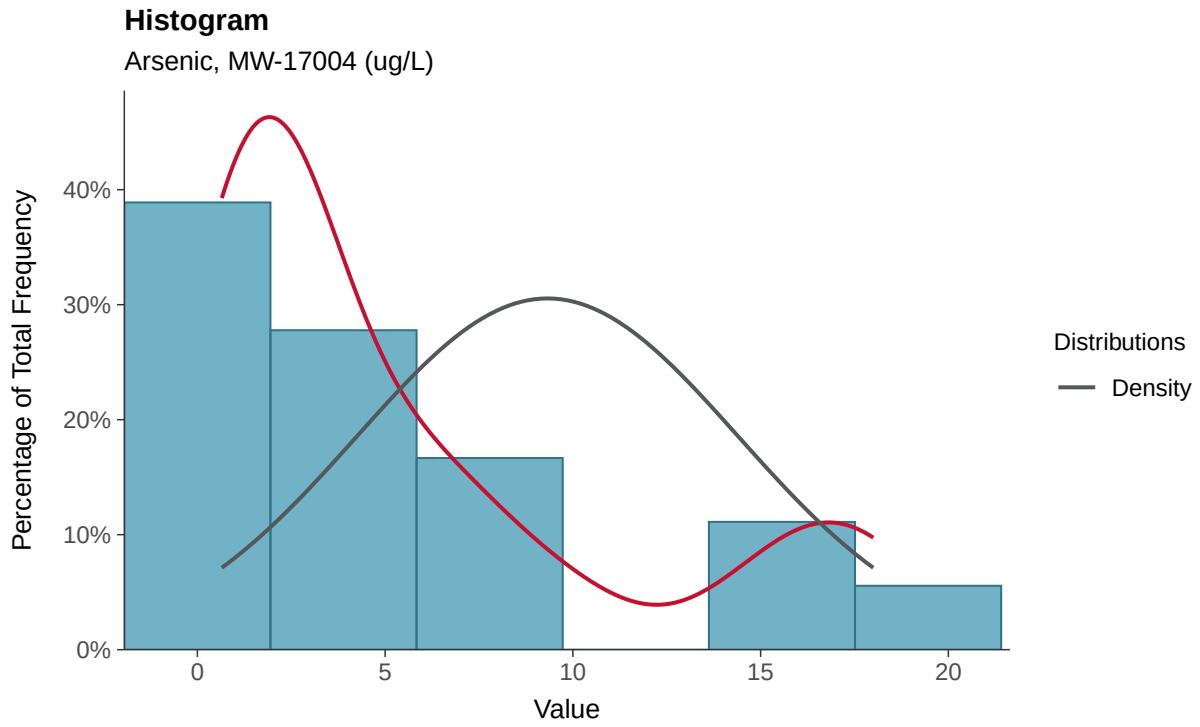
Antimony, MW-17004 (ug/L)



Appendix IV: Arsenic, MW-17004

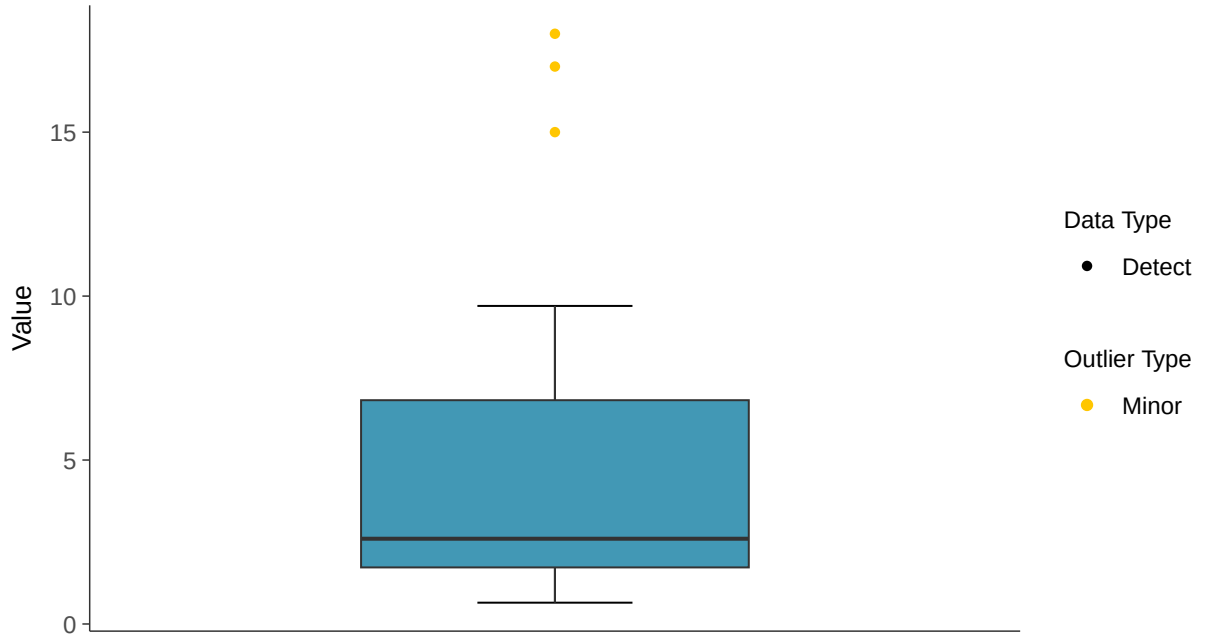
ID: 17_2_102





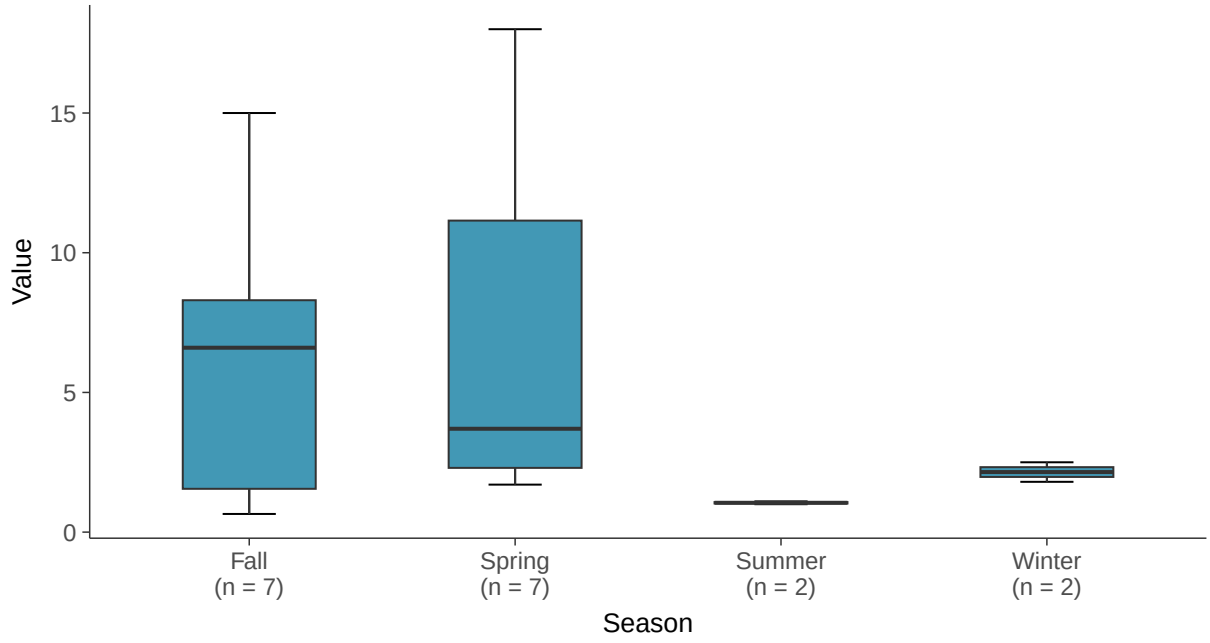
Boxplot

Arsenic, MW-17004 (ug/L)



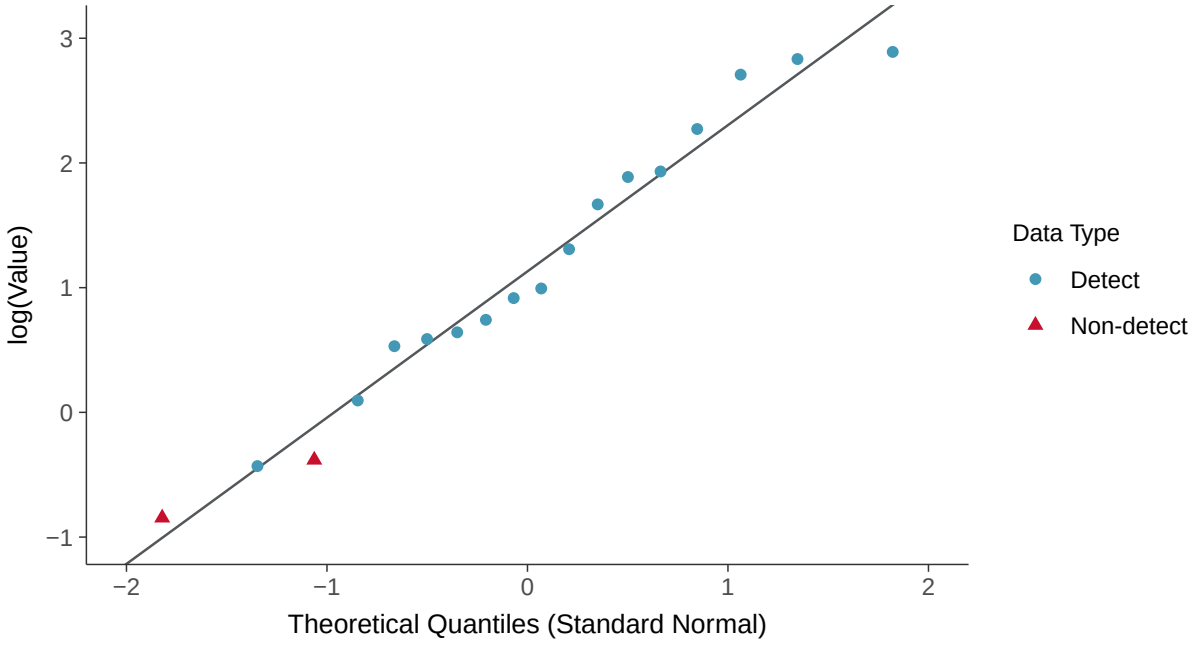
Boxplot by Season

Arsenic, MW-17004 (ug/L)



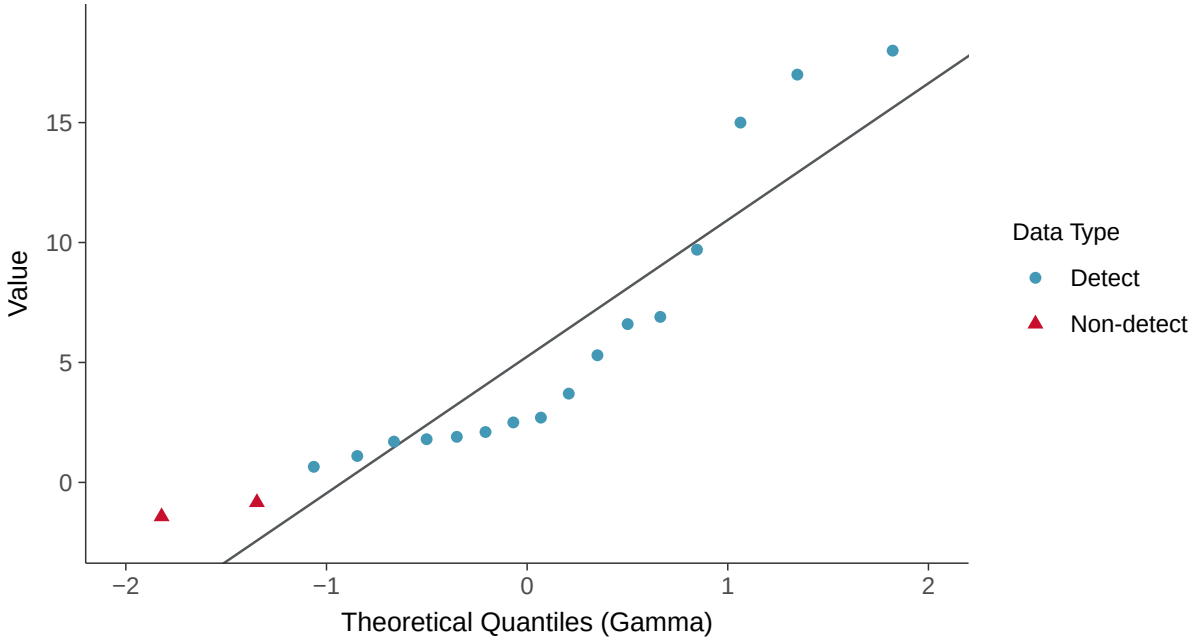
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-17004 (ug/L)



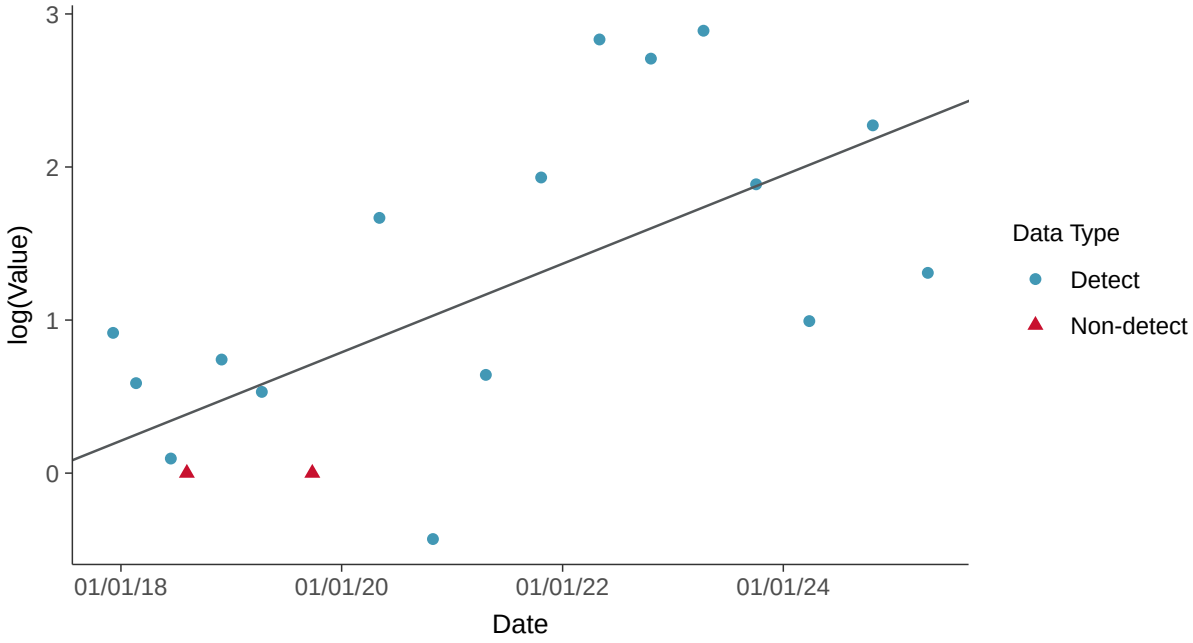
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-17004 (ug/L)



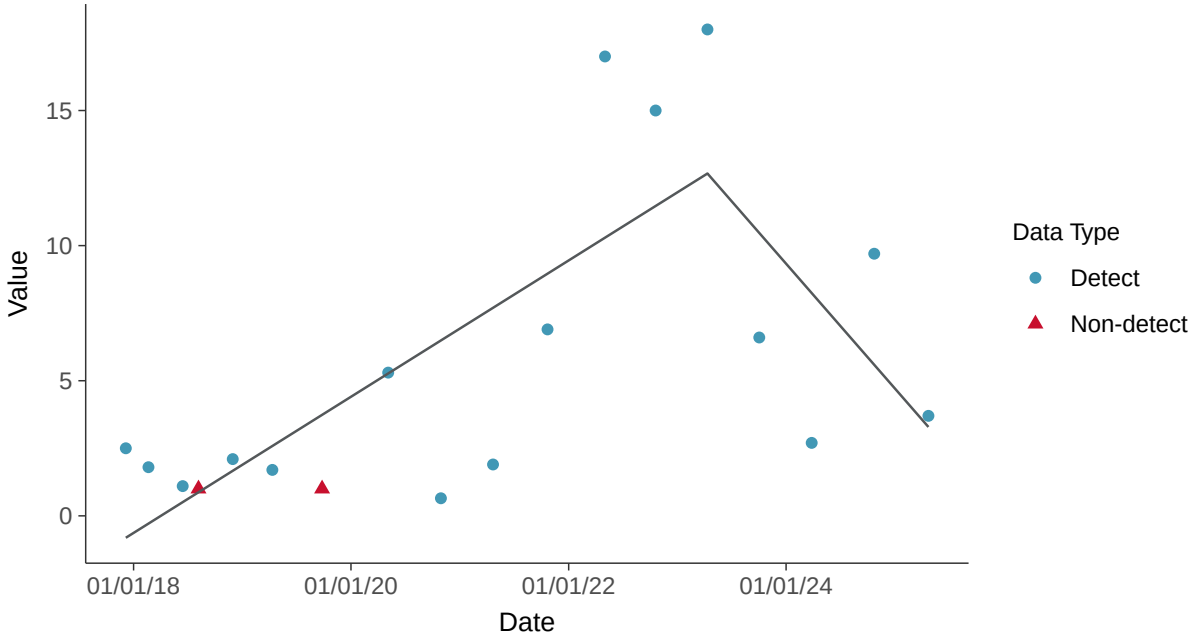
Trend Regression: Lognormal MLE

Arsenic, MW-17004 (ug/L)



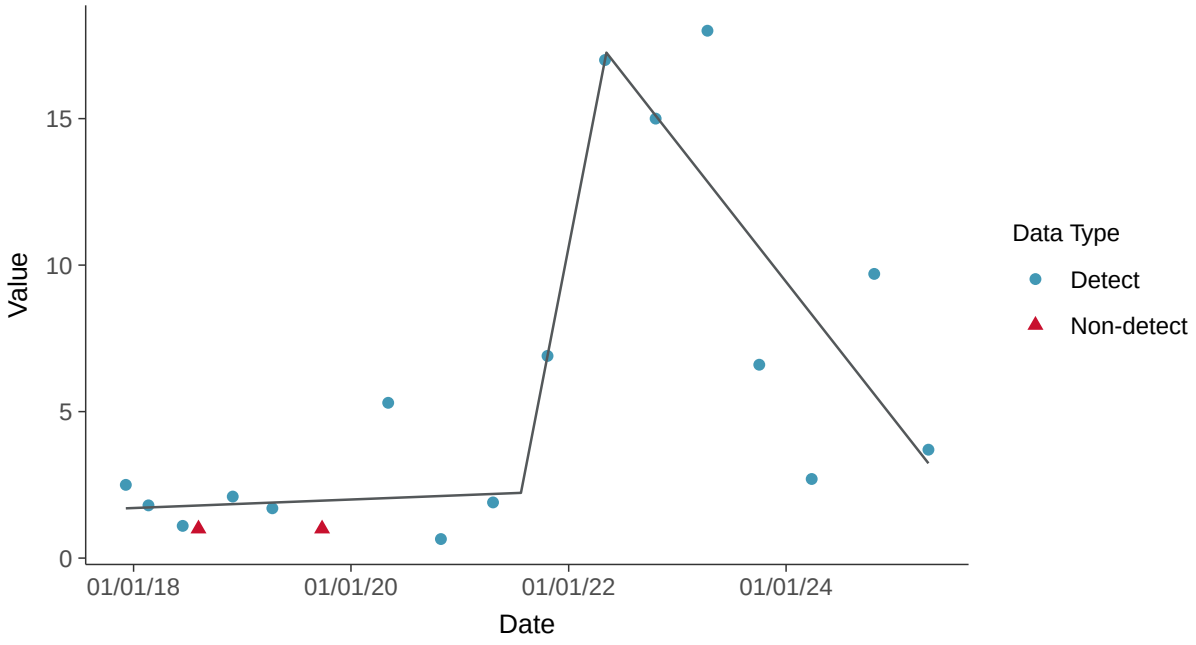
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-17004 (ug/L)



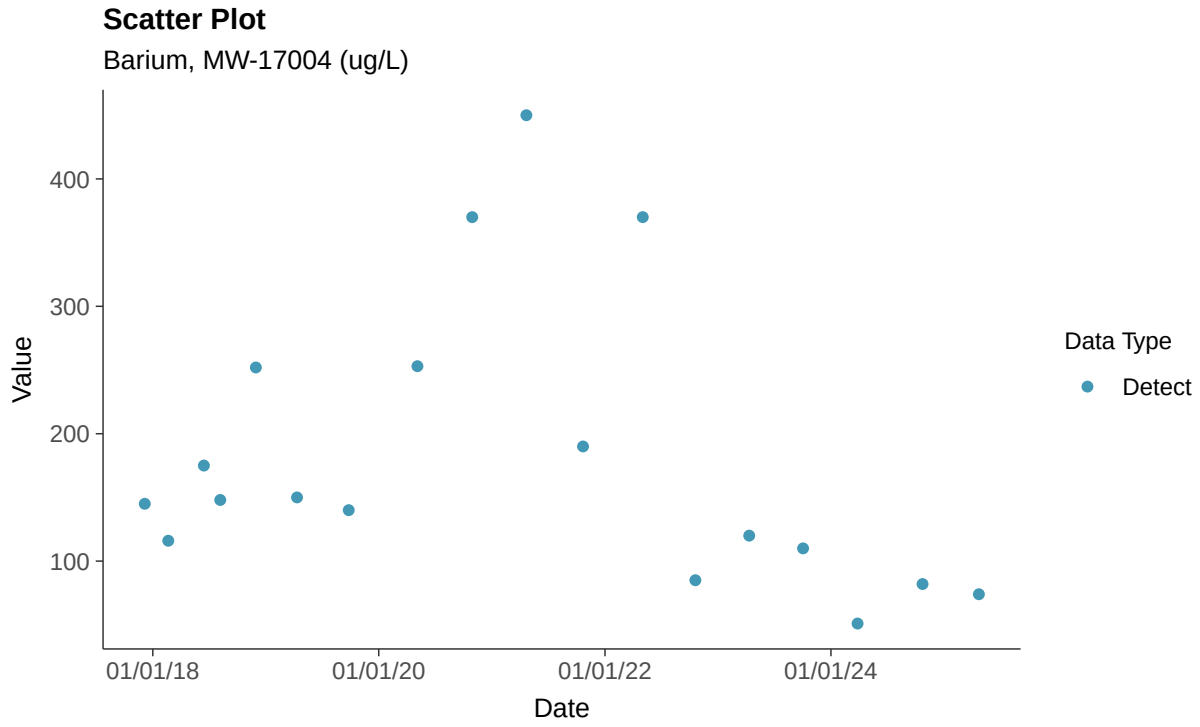
Trend Regression: Piecewise Linear-Linear-Linear

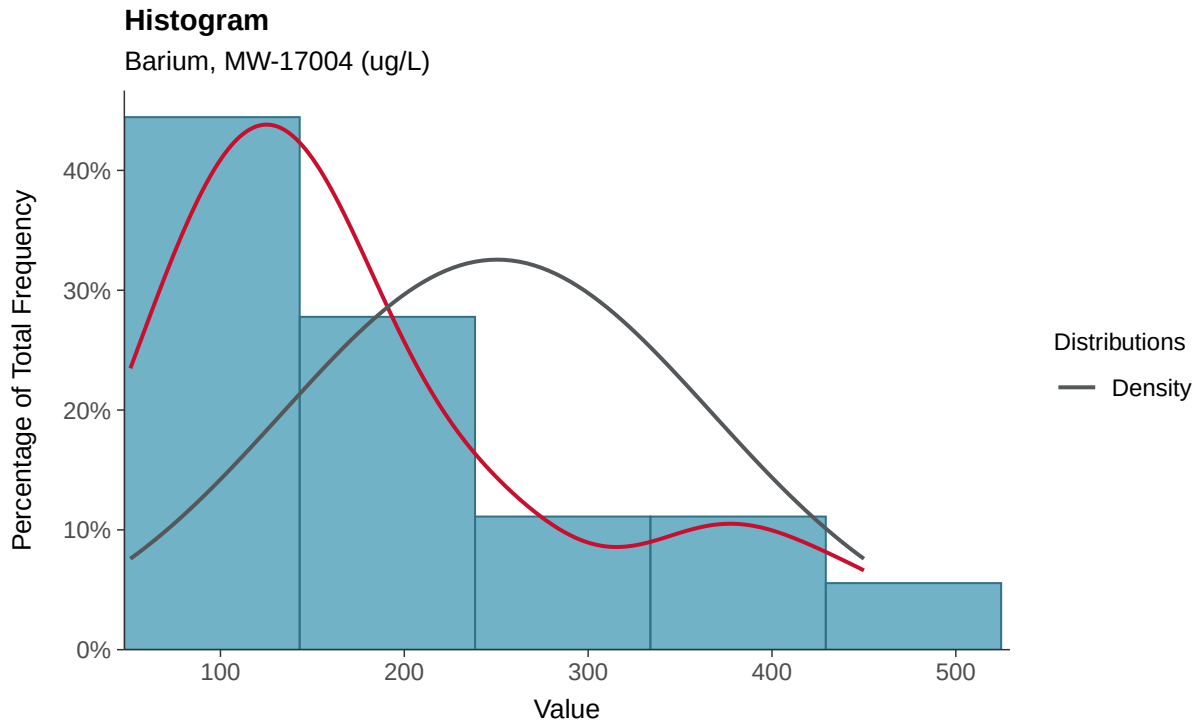
Arsenic, MW-17004 (ug/L)



Appendix IV: Barium, MW-17004

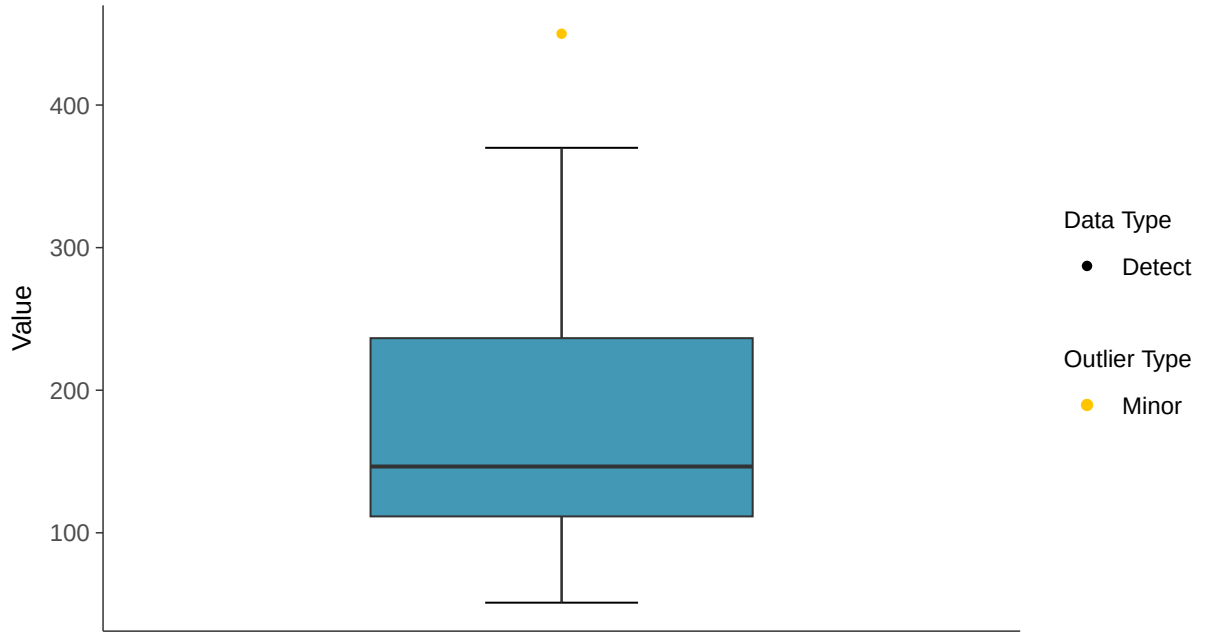
ID: 17_2_103





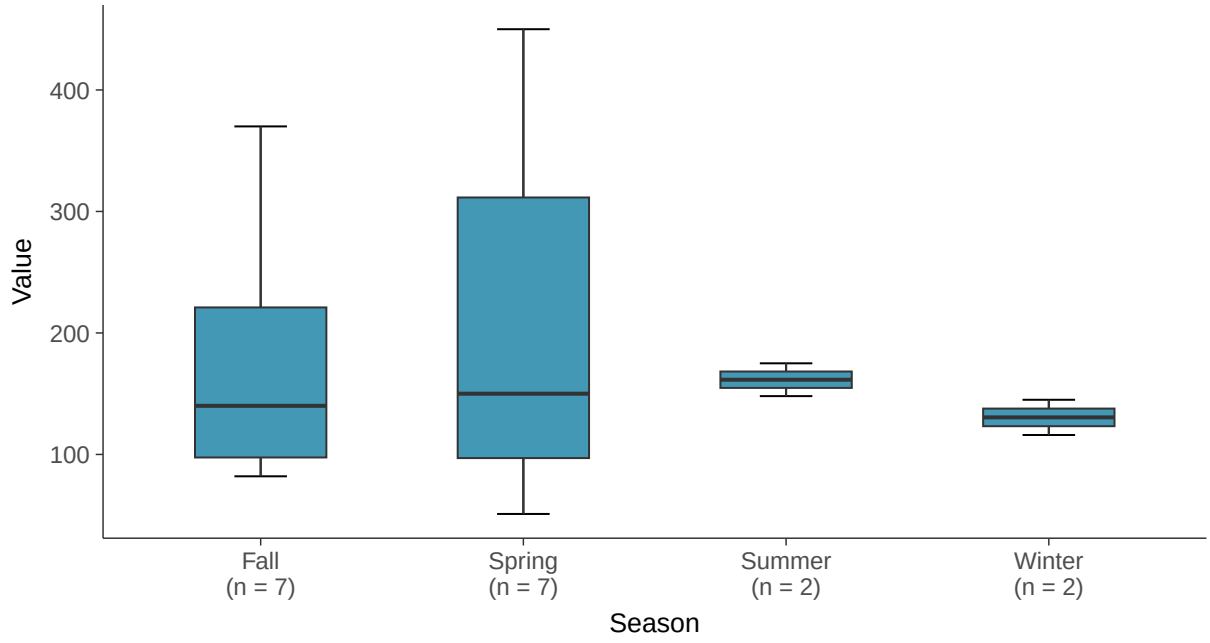
Boxplot

Barium, MW-17004 (ug/L)



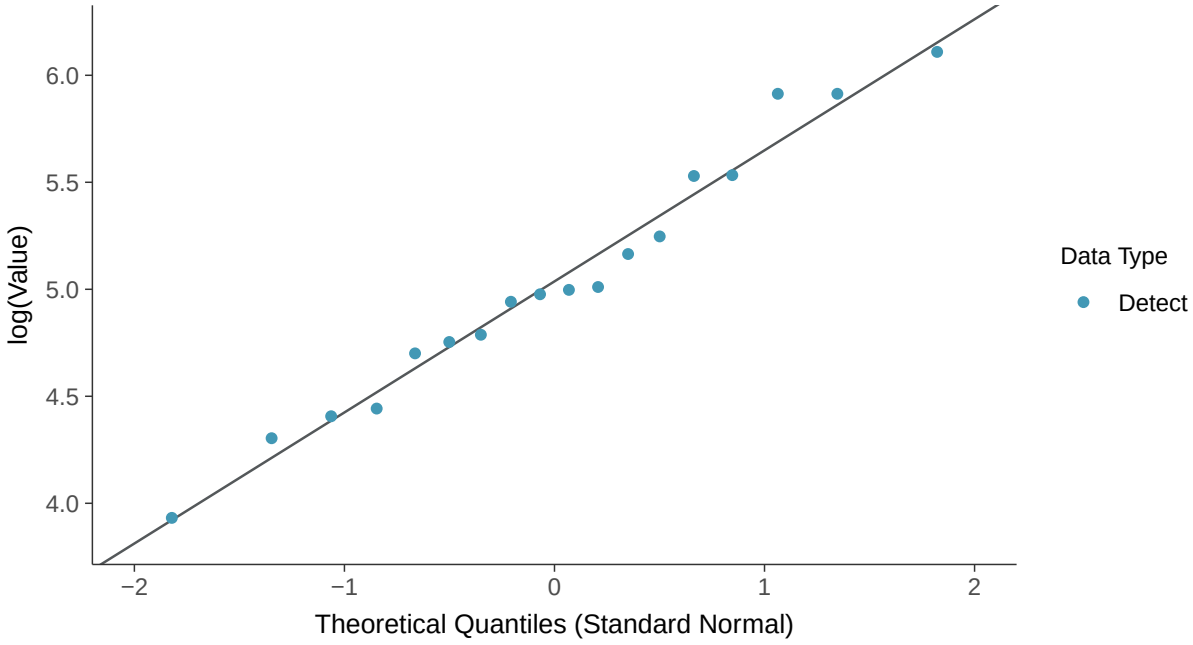
Boxplot by Season

Barium, MW-17004 (ug/L)



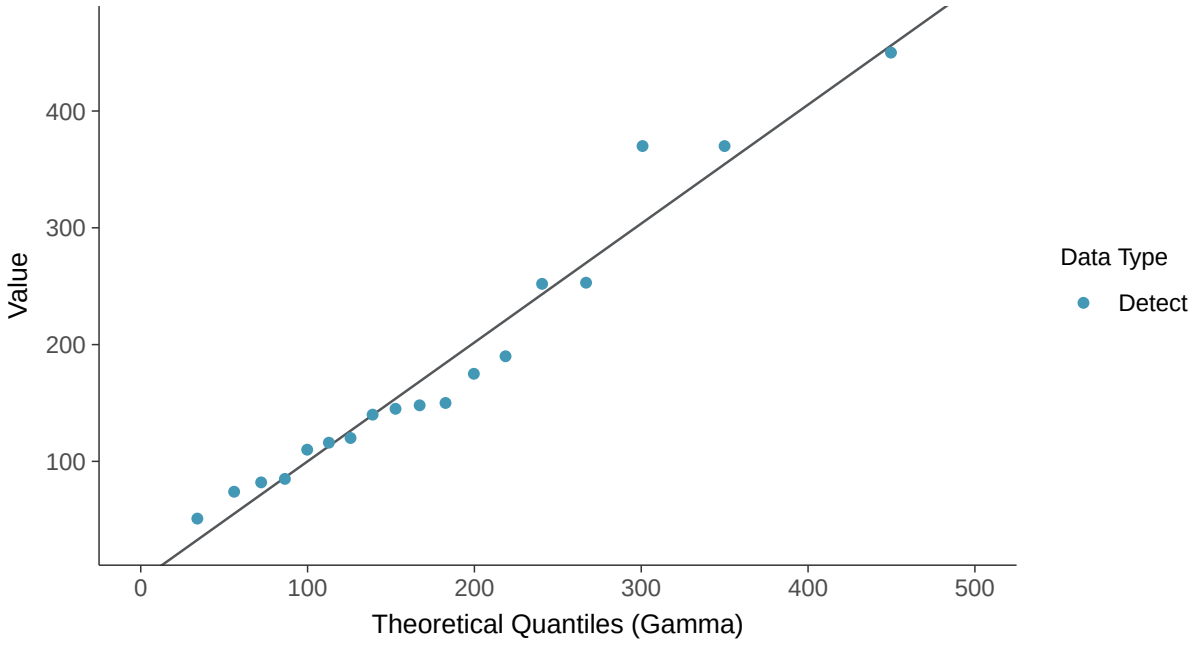
Lognormal Q-Q plot

Barium, MW-17004 (ug/L)



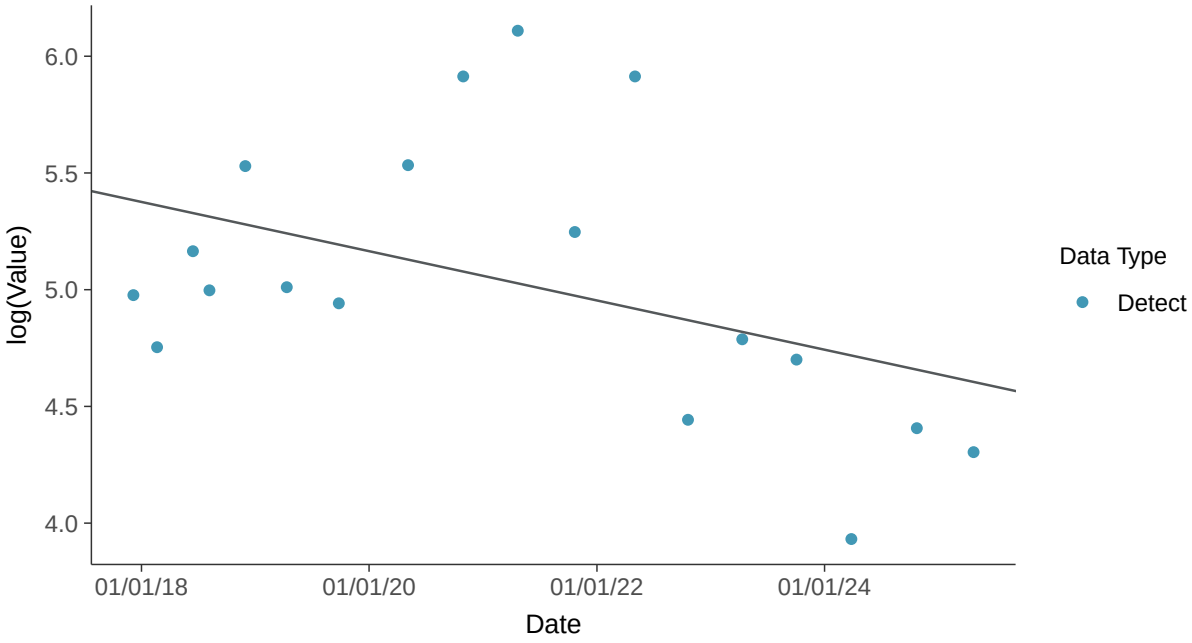
Gamma Q-Q plot

Barium, MW-17004 (ug/L)



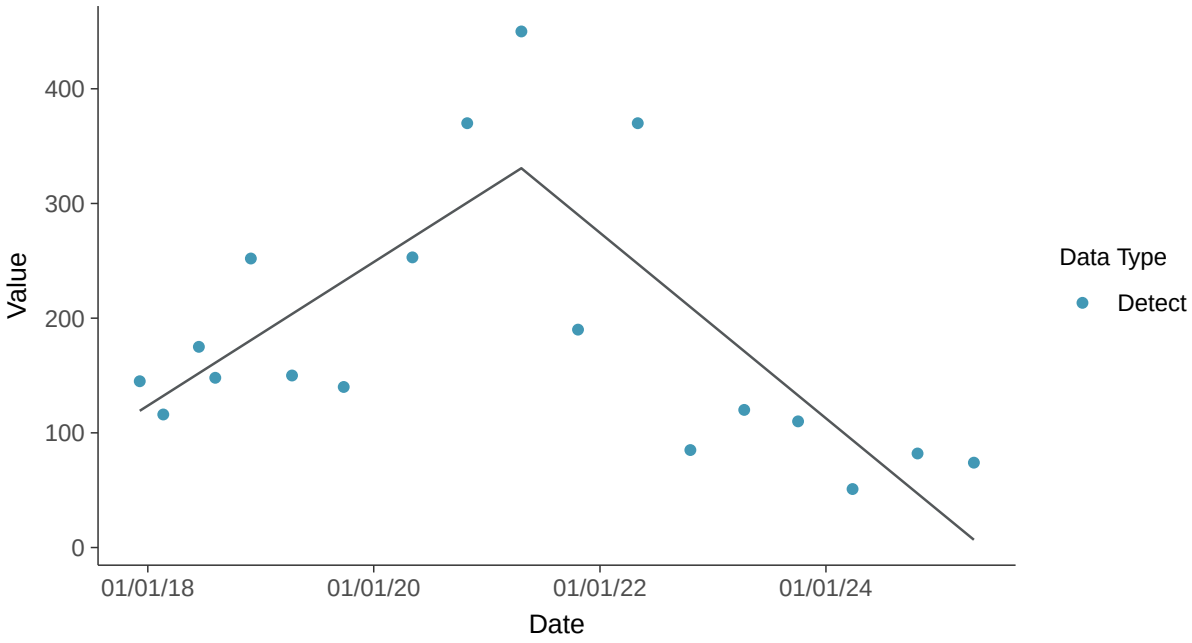
Trend Regression: Lognormal MLE

Barium, MW-17004 (ug/L)



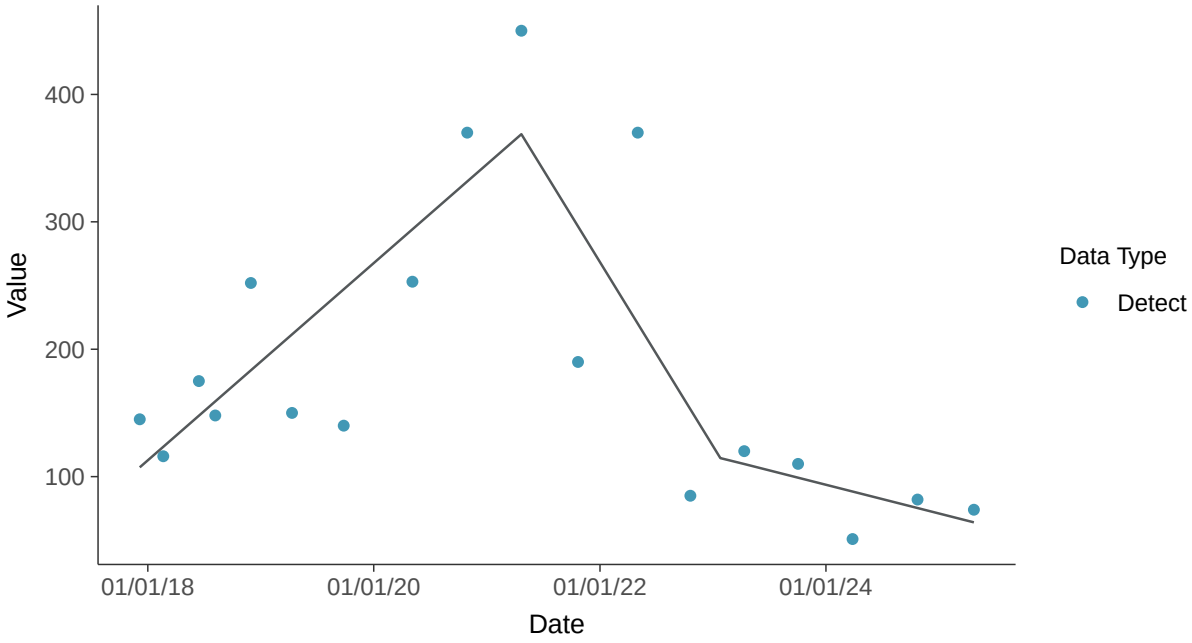
Trend Regression: Piecewise Linear-Linear

Barium, MW-17004 (ug/L)



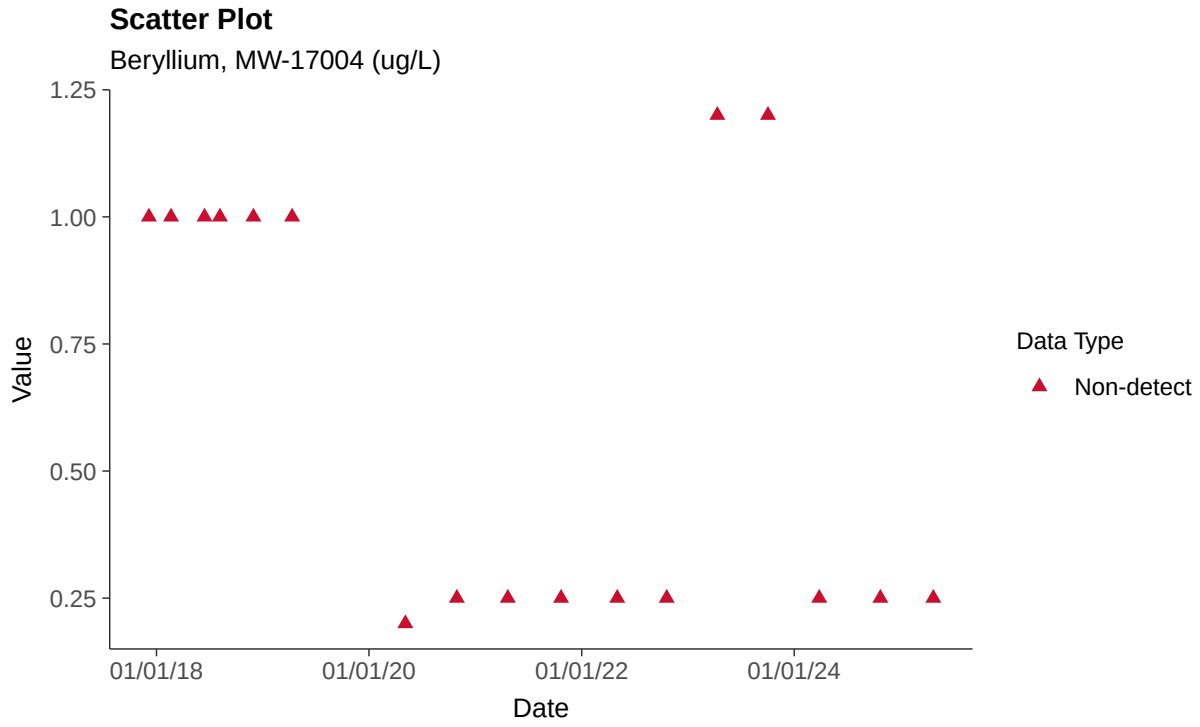
Trend Regression: Piecewise Linear-Linear-Linear

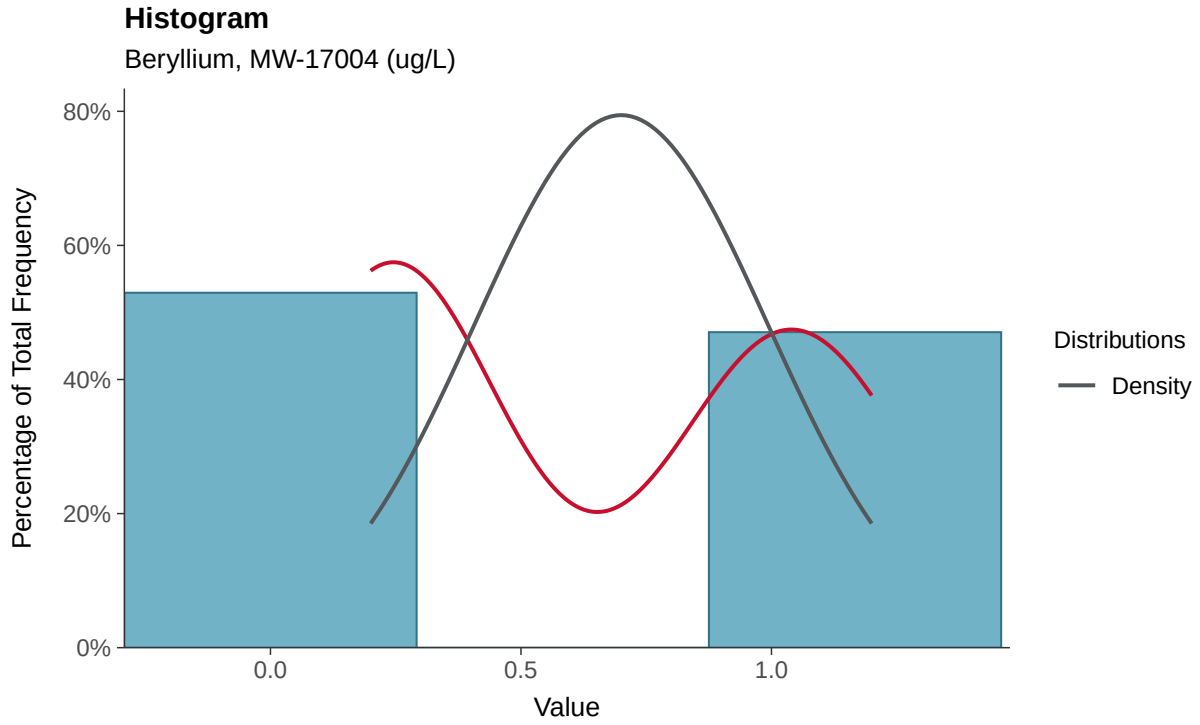
Barium, MW-17004 (ug/L)



Appendix IV: Beryllium, MW-17004

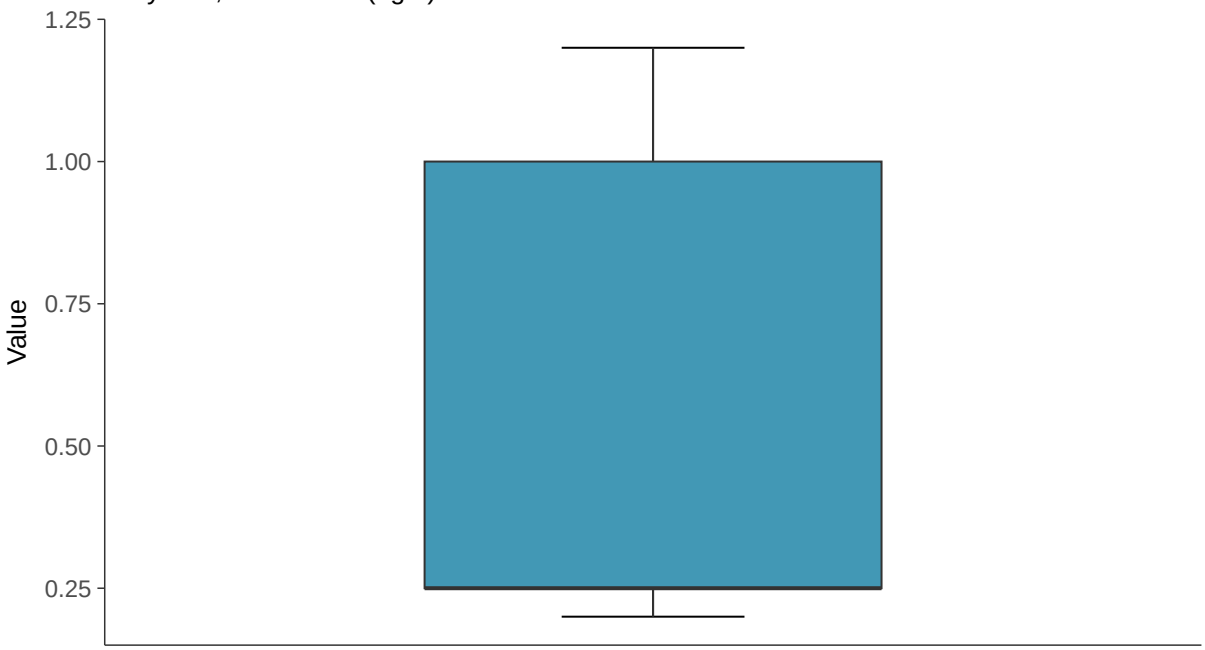
ID: 17_2_104





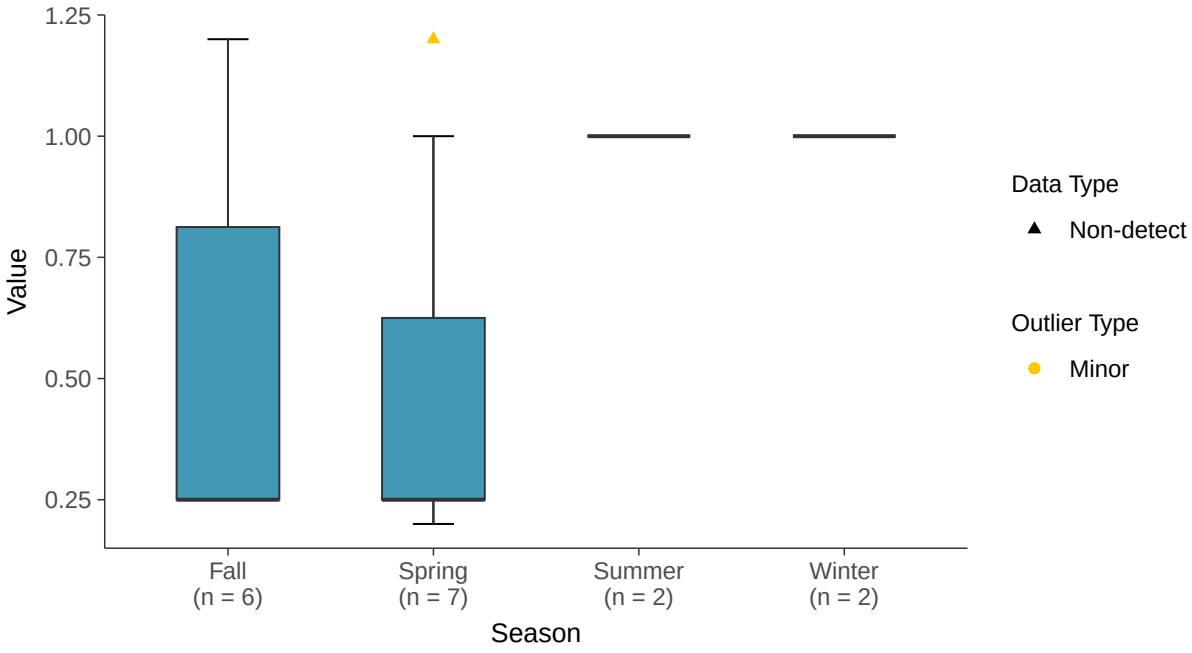
Boxplot

Beryllium, MW-17004 (ug/L)



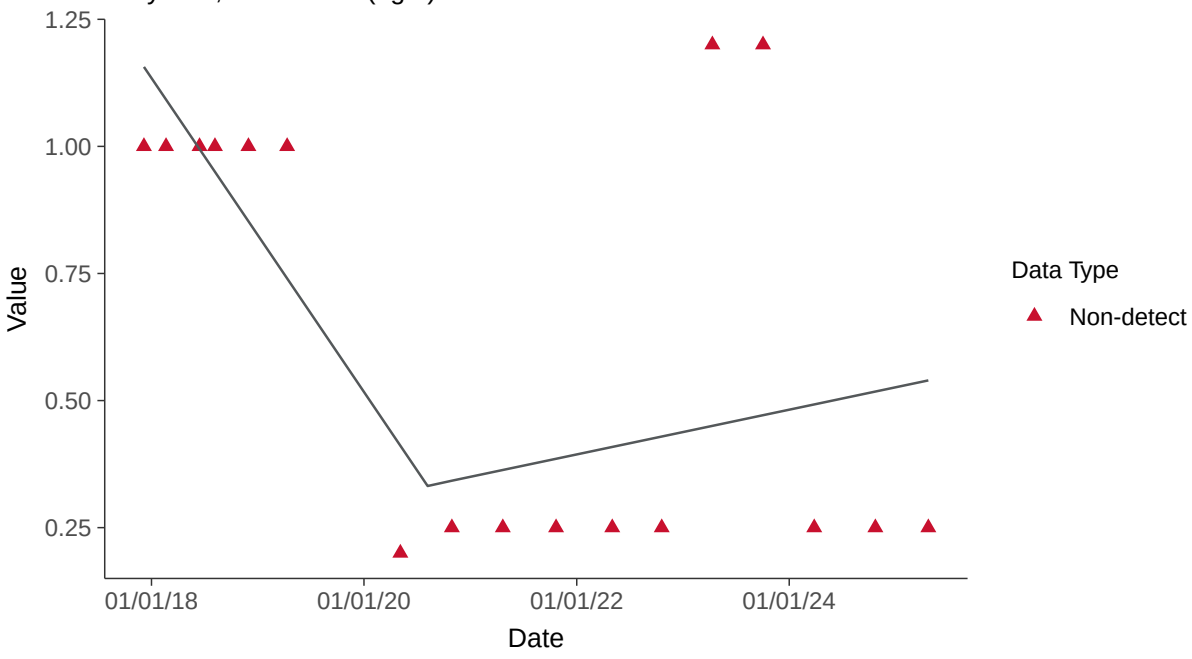
Boxplot by Season

Beryllium, MW-17004 (ug/L)



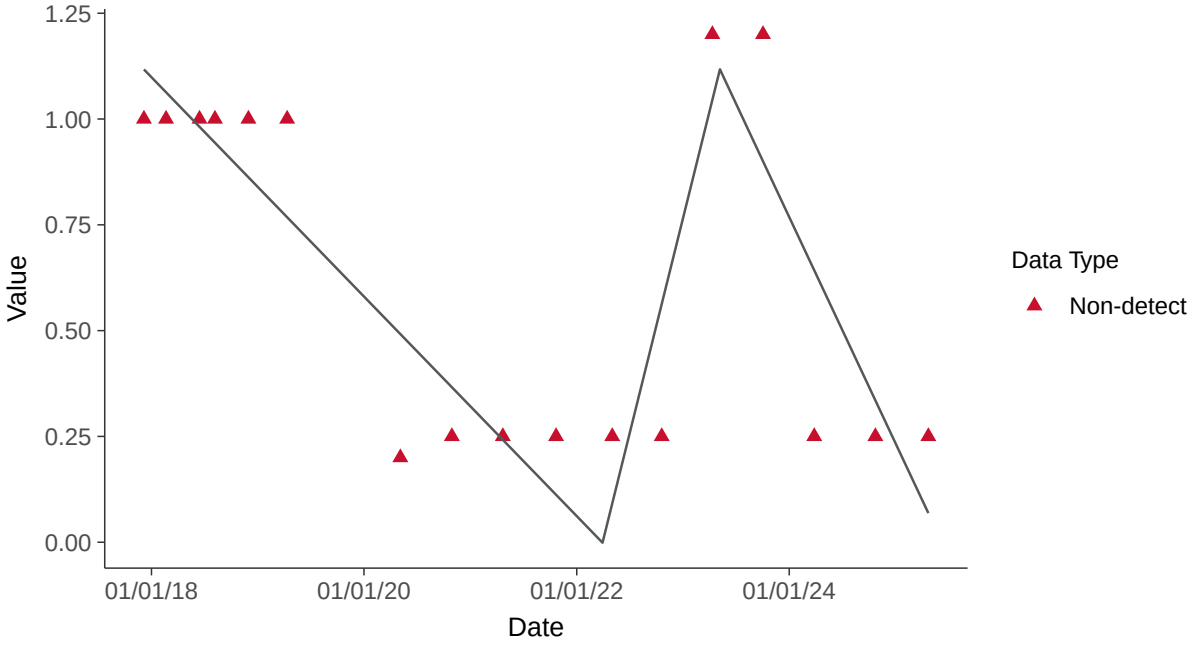
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-17004 (ug/L)



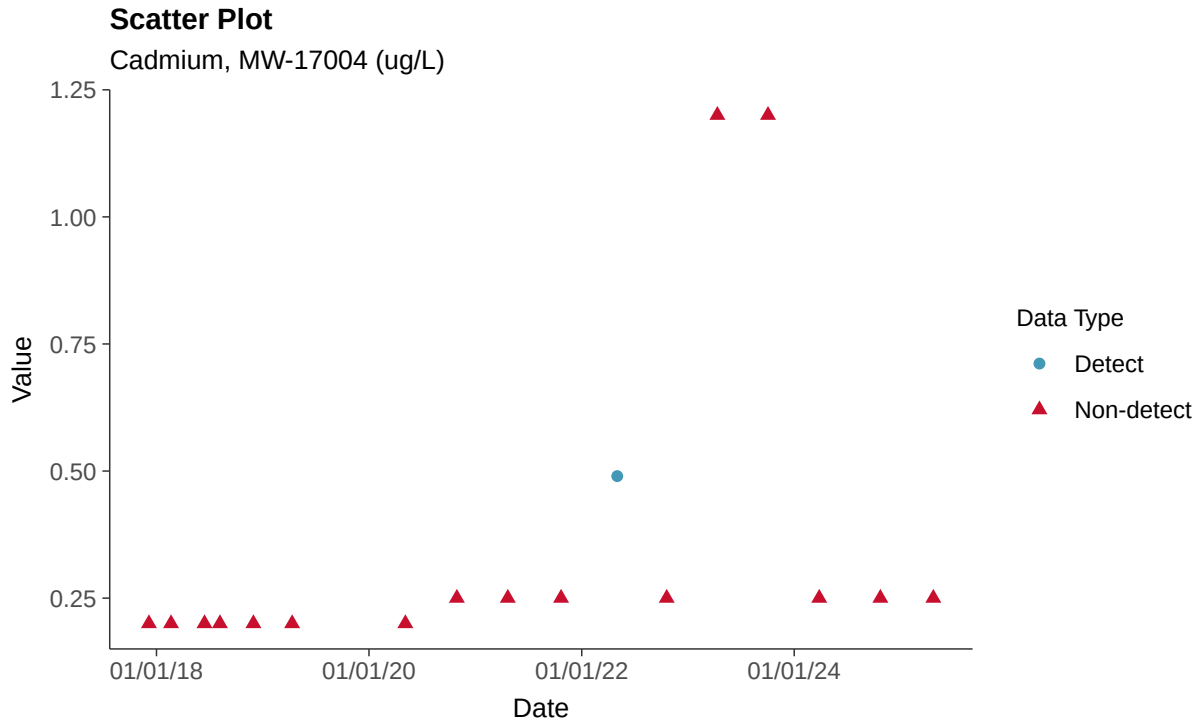
Trend Regression: Piecewise Linear-Linear-Linear

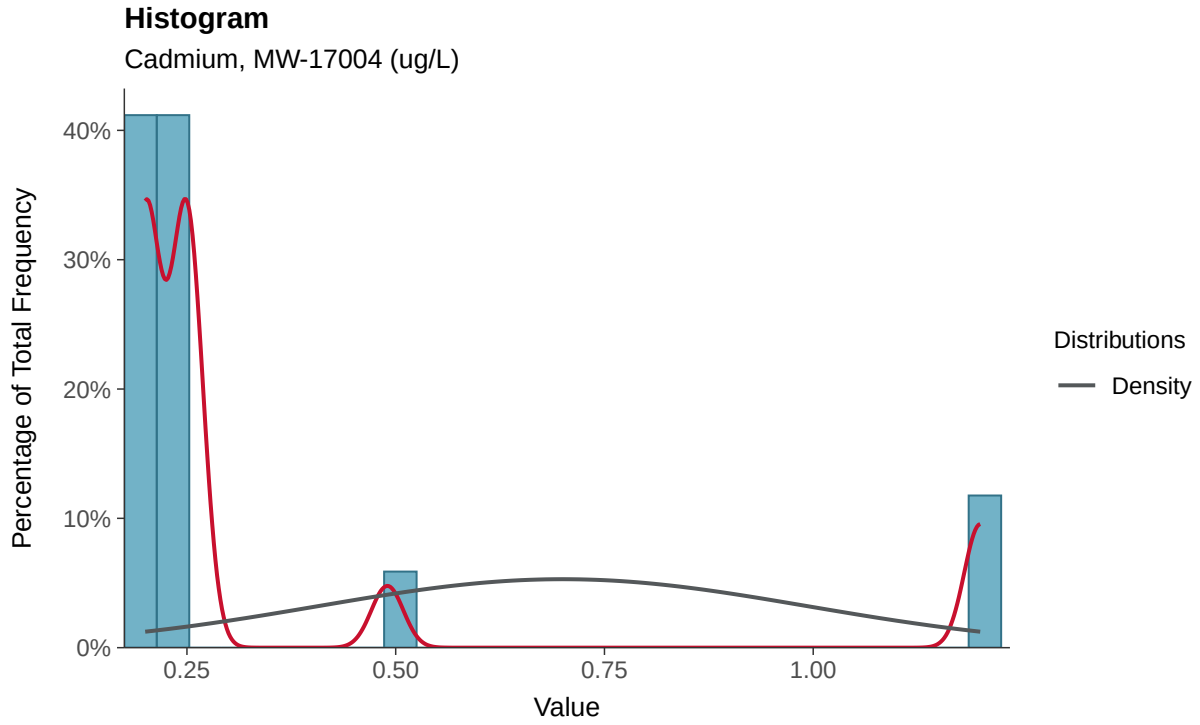
Beryllium, MW-17004 (ug/L)



Appendix IV: Cadmium, MW-17004

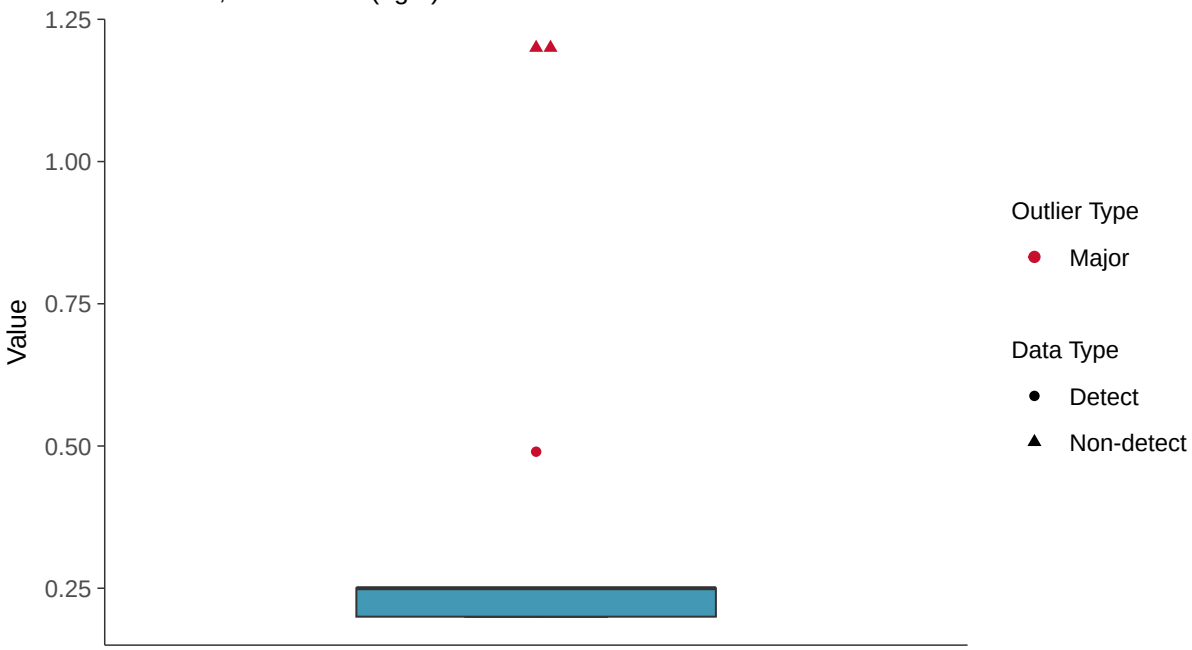
ID: 17_2_106





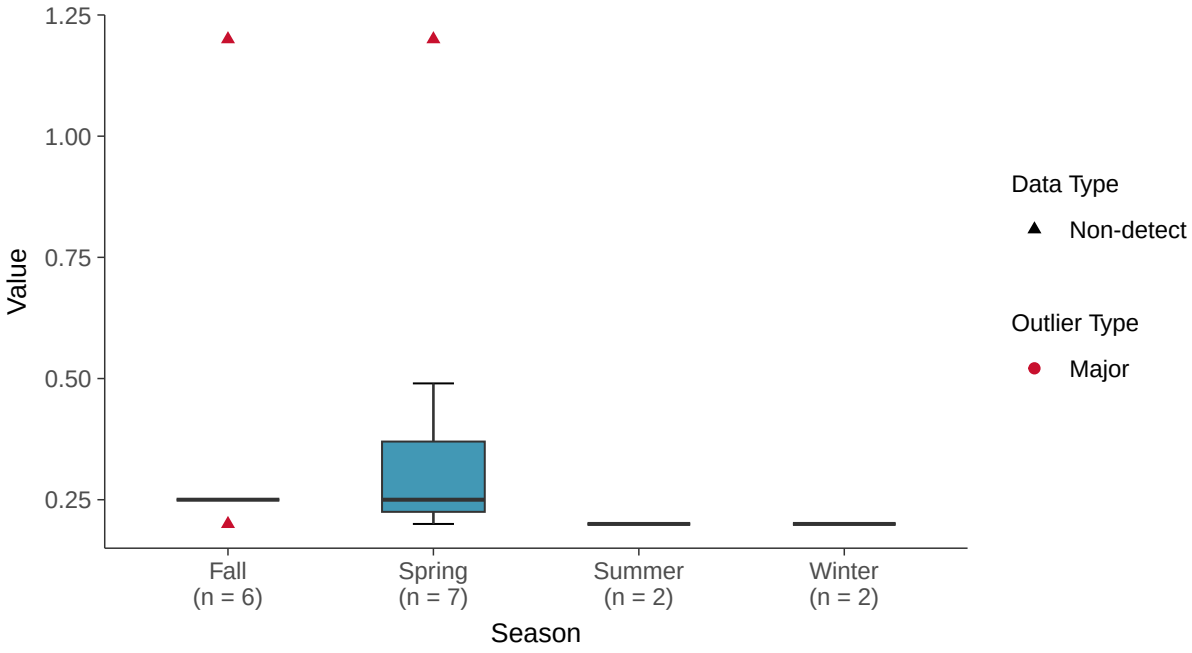
Boxplot

Cadmium, MW-17004 (ug/L)



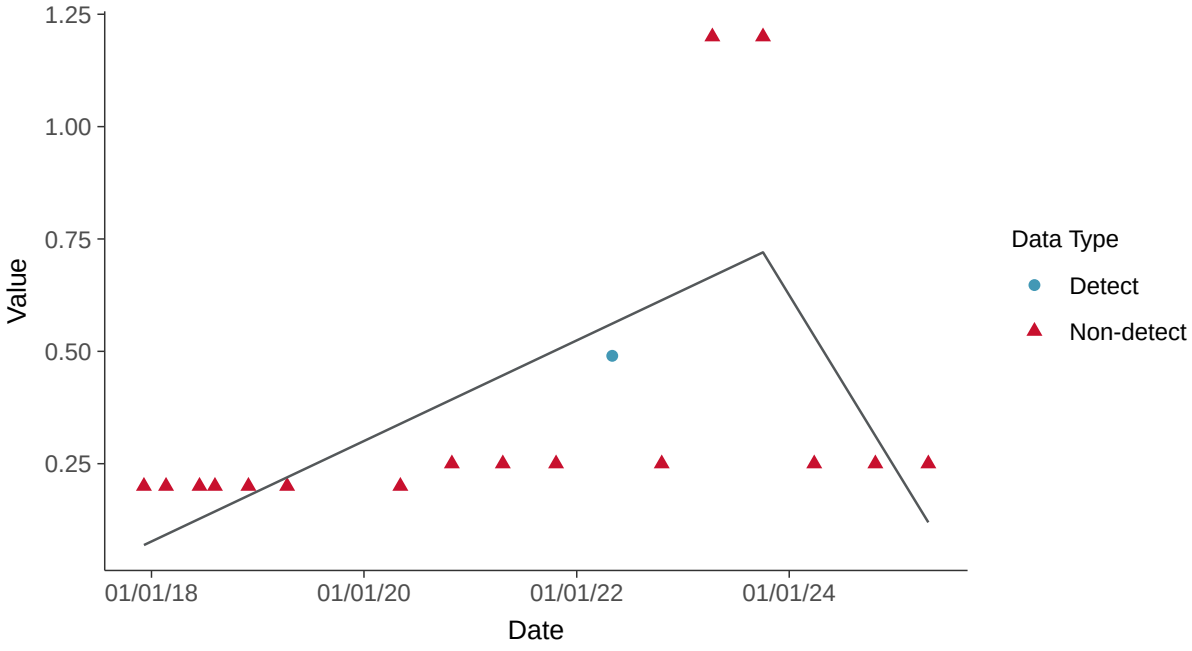
Boxplot by Season

Cadmium, MW-17004 (ug/L)



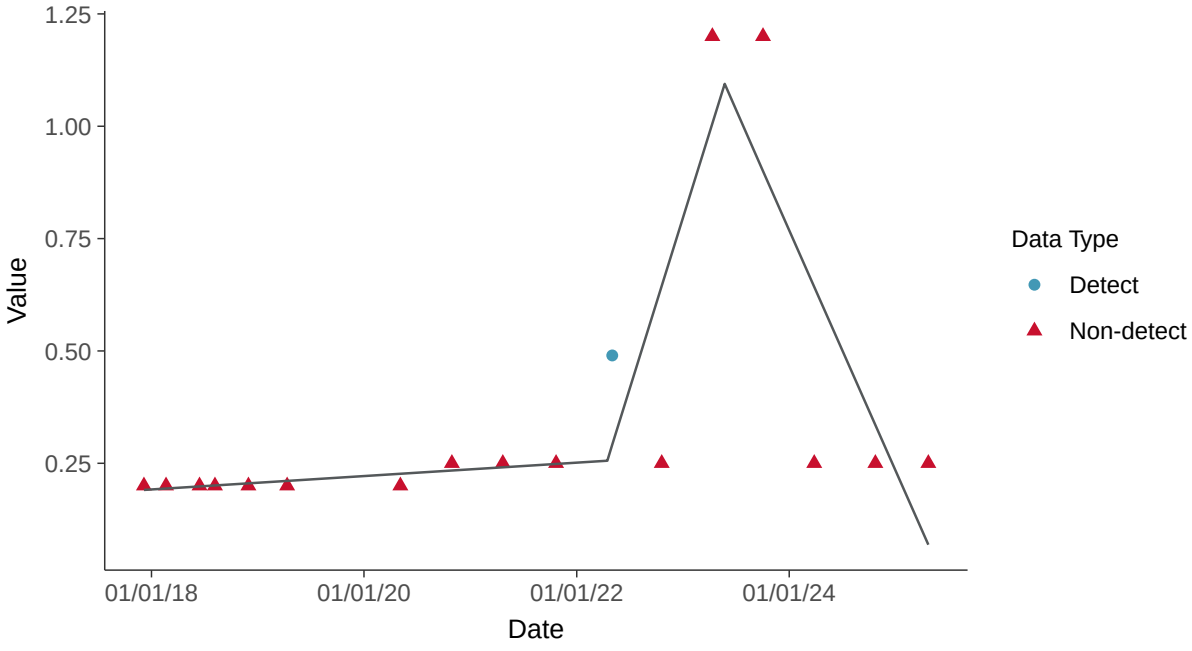
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-17004 (ug/L)



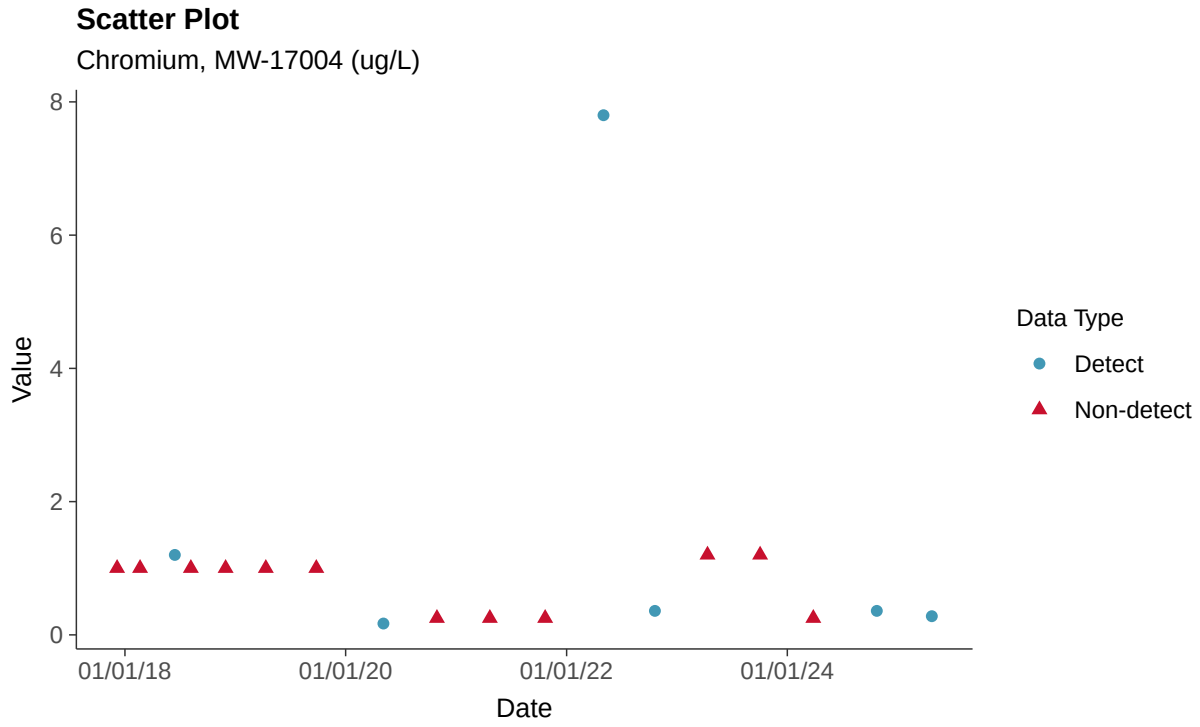
Trend Regression: Piecewise Linear-Linear-Linear

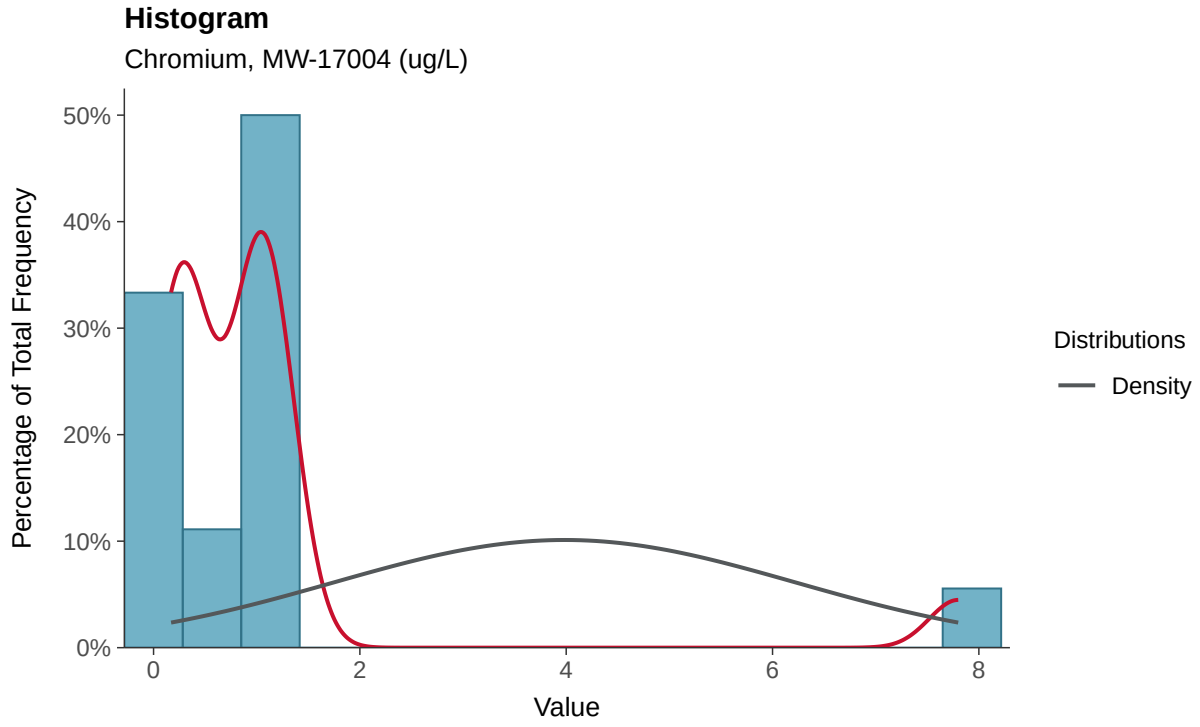
Cadmium, MW-17004 (ug/L)



Appendix IV: Chromium, MW-17004

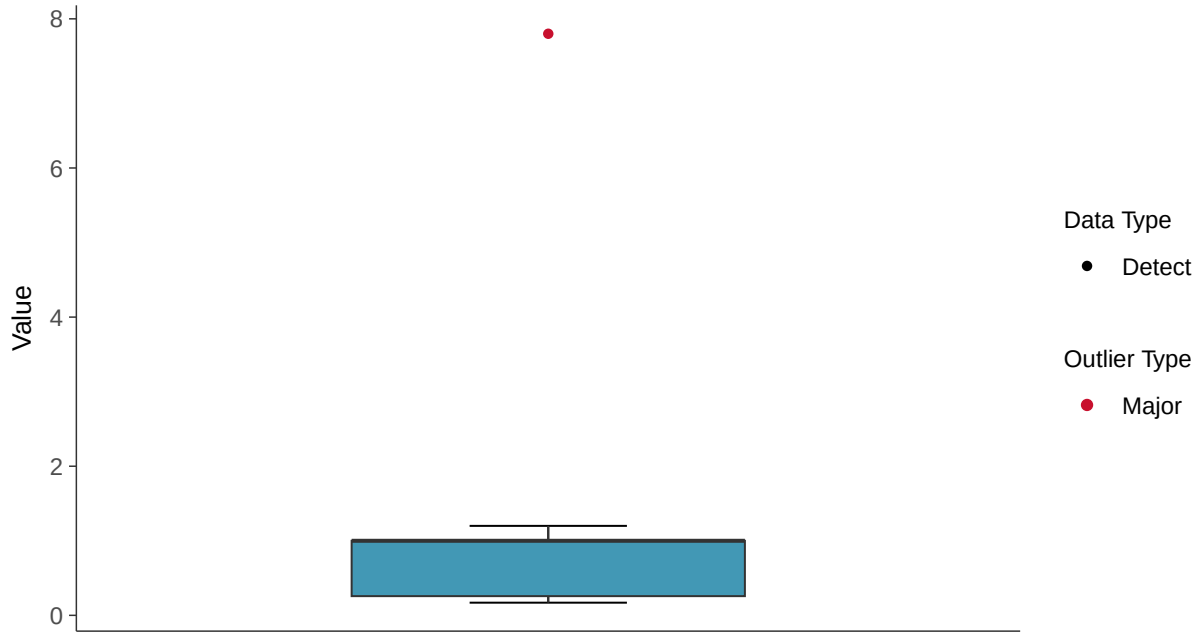
ID: 17_2_109





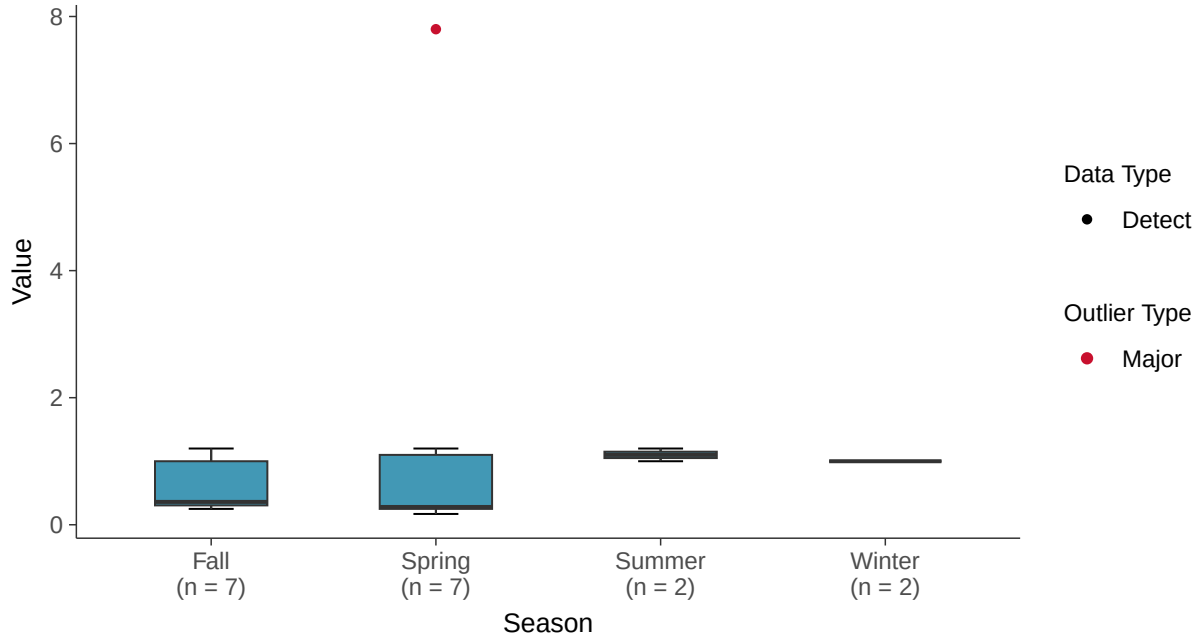
Boxplot

Chromium, MW-17004 (ug/L)



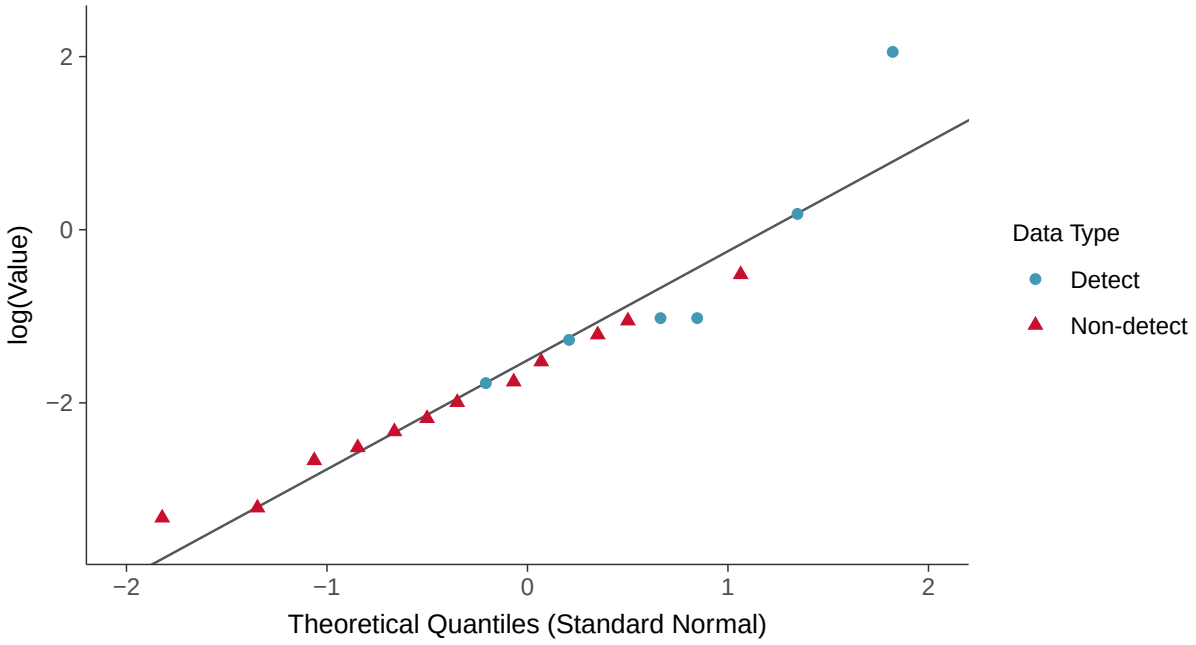
Boxplot by Season

Chromium, MW-17004 (ug/L)



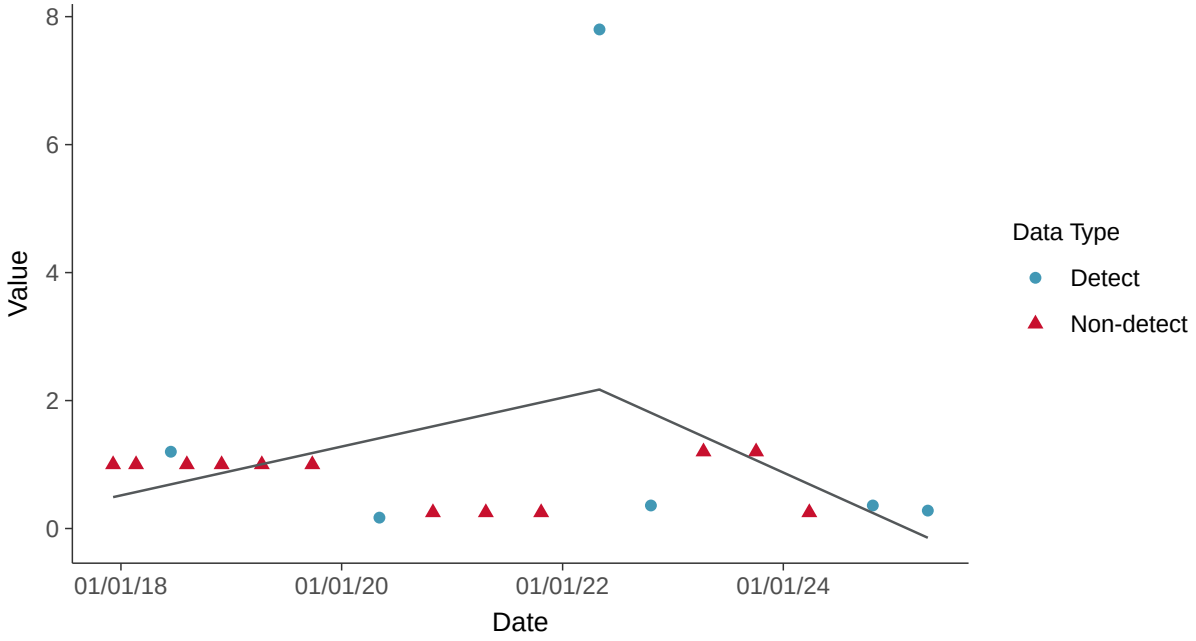
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-17004 (ug/L)



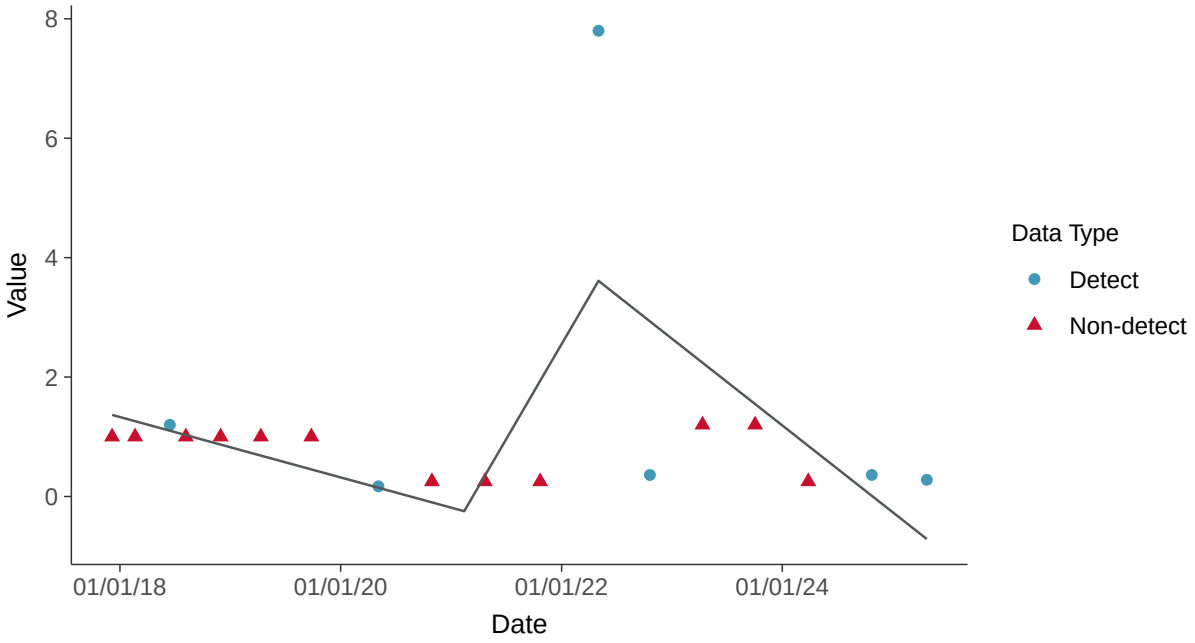
Trend Regression: Piecewise Linear-Linear

Chromium, MW-17004 (ug/L)



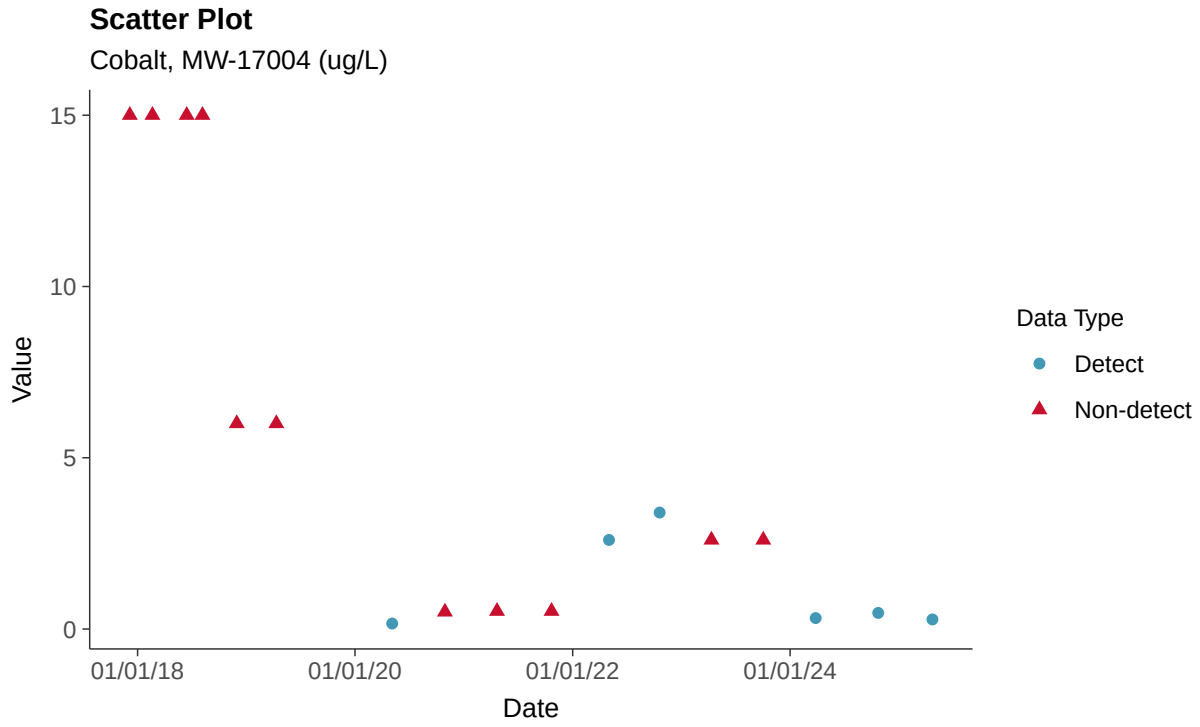
Trend Regression: Piecewise Linear-Linear-Linear

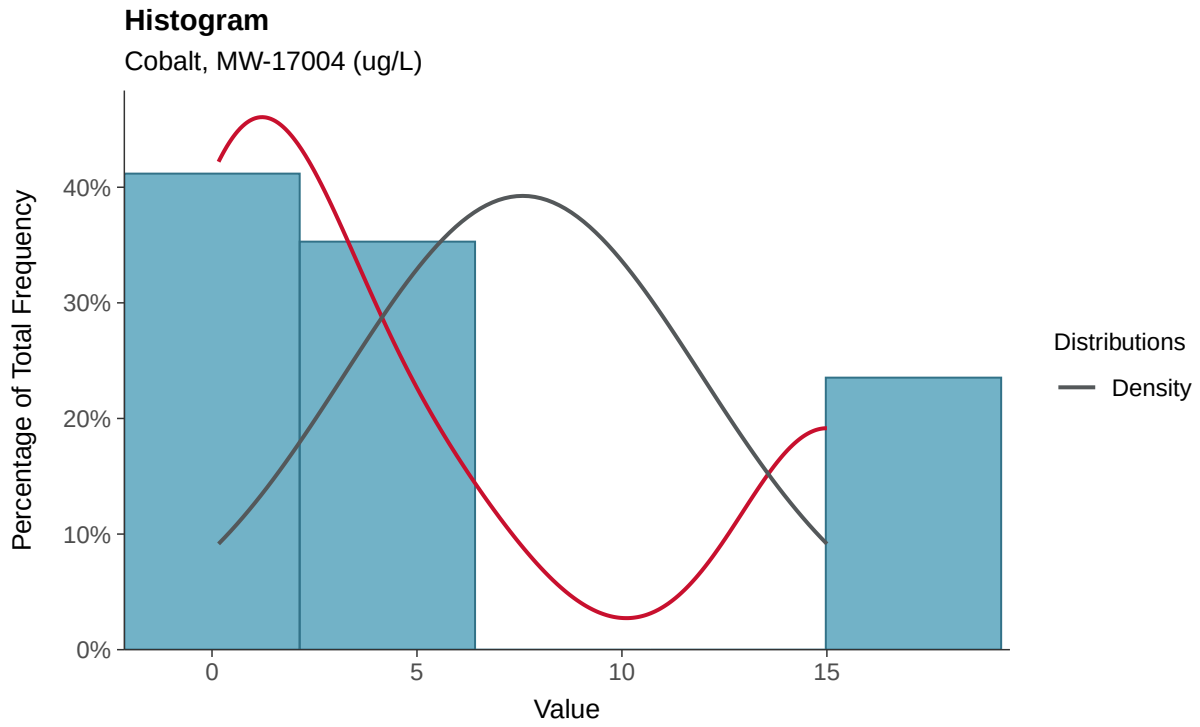
Chromium, MW-17004 (ug/L)



Appendix IV: Cobalt, MW-17004

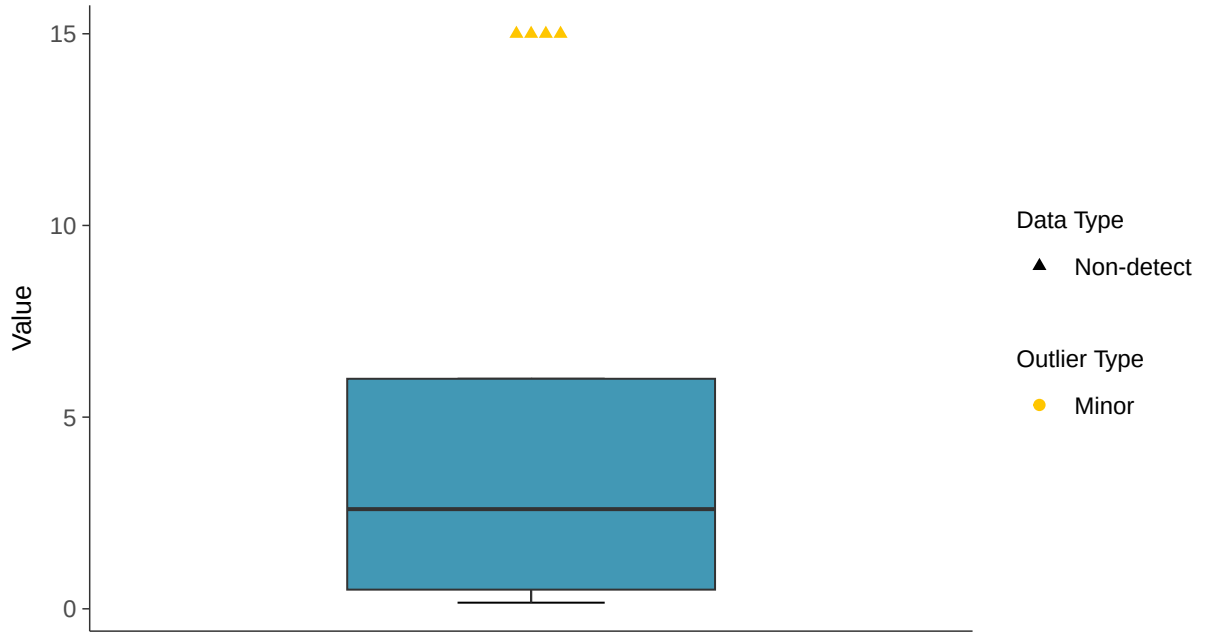
ID: 17_2_110





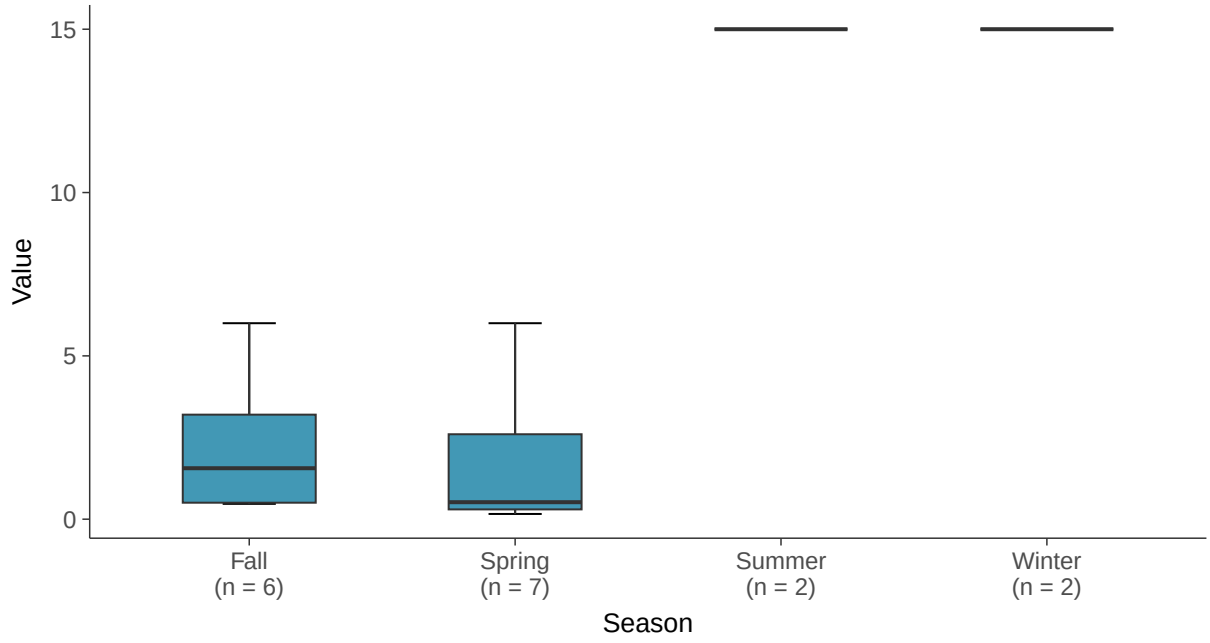
Boxplot

Cobalt, MW-17004 (ug/L)



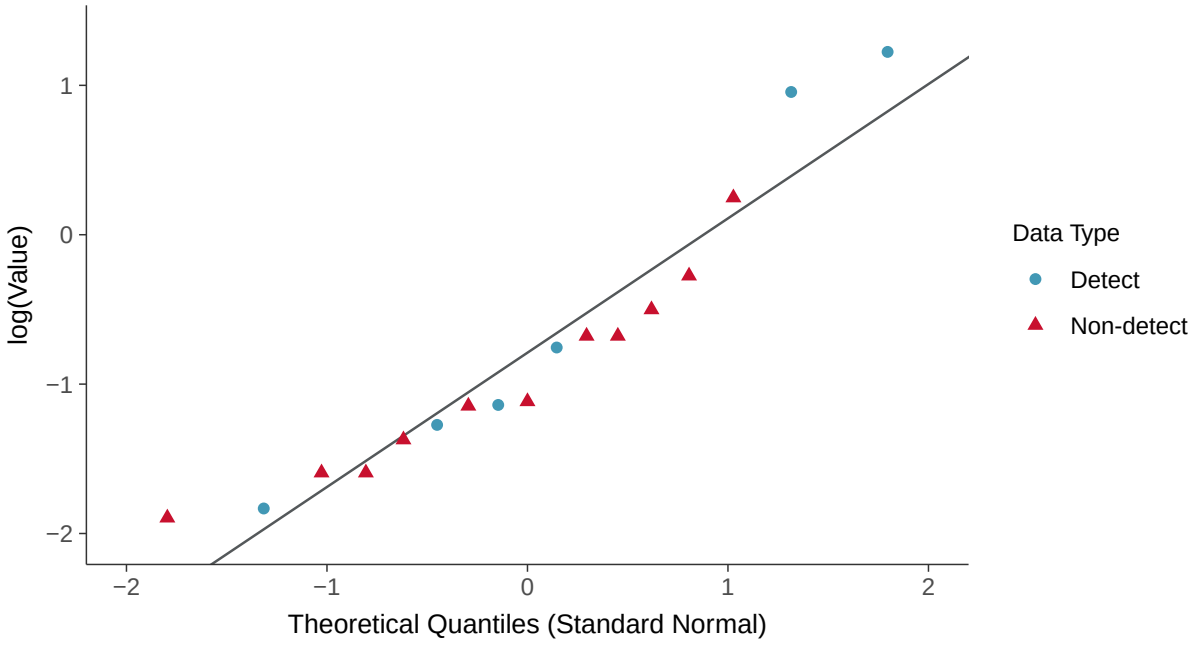
Boxplot by Season

Cobalt, MW-17004 (ug/L)



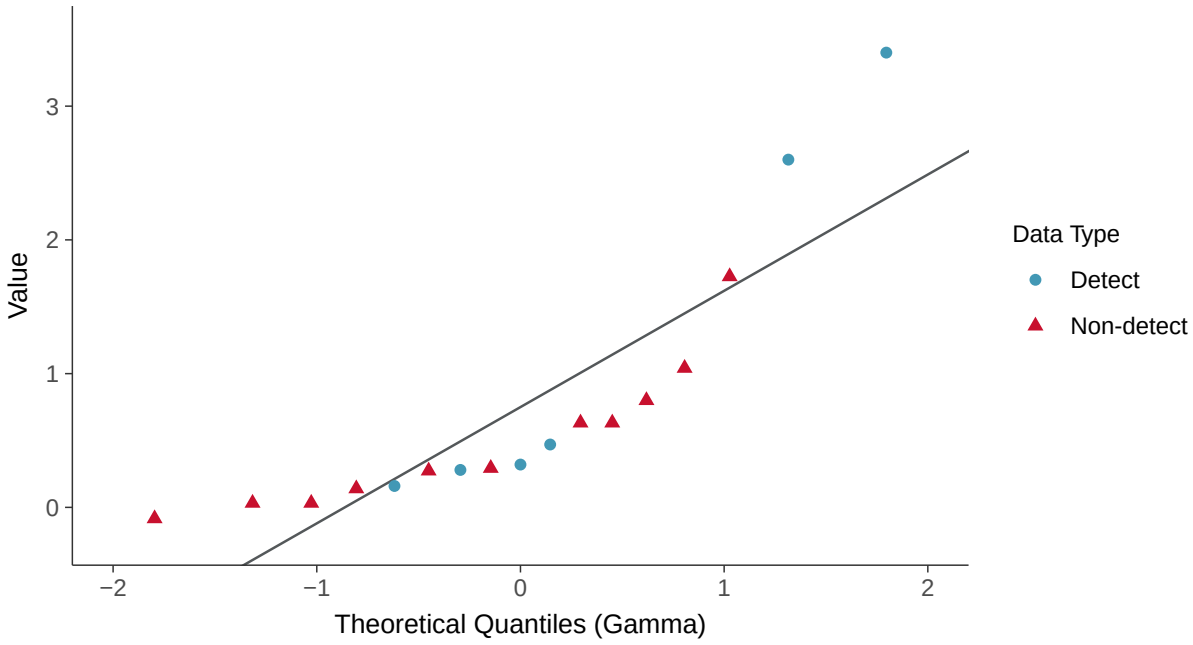
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-17004 (ug/L)



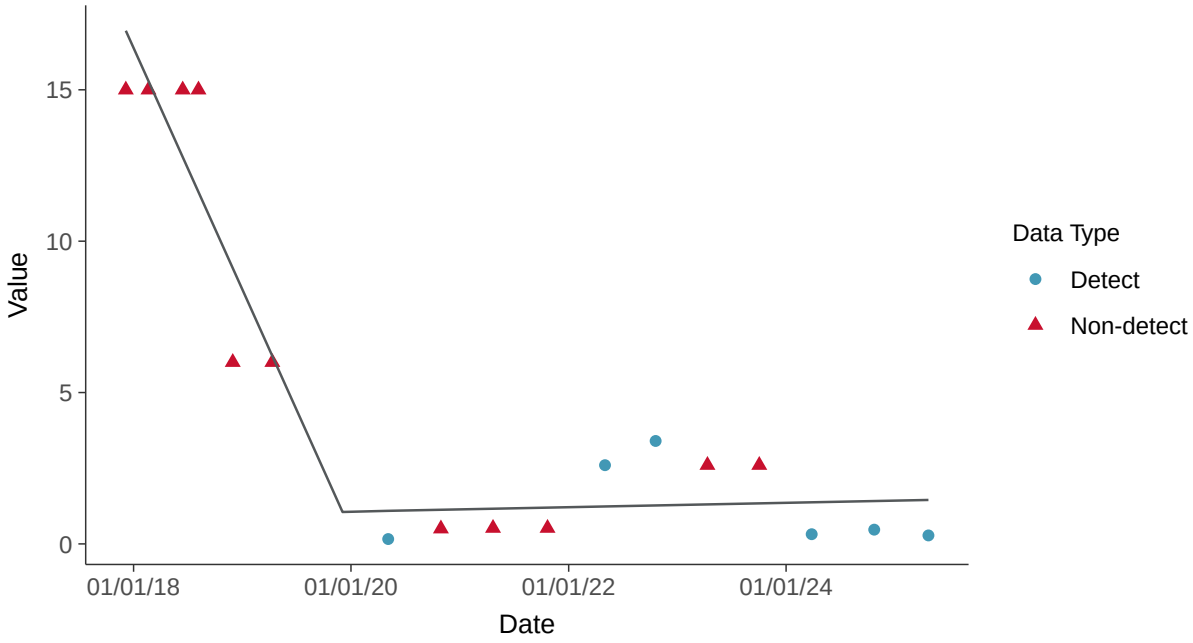
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-17004 (ug/L)



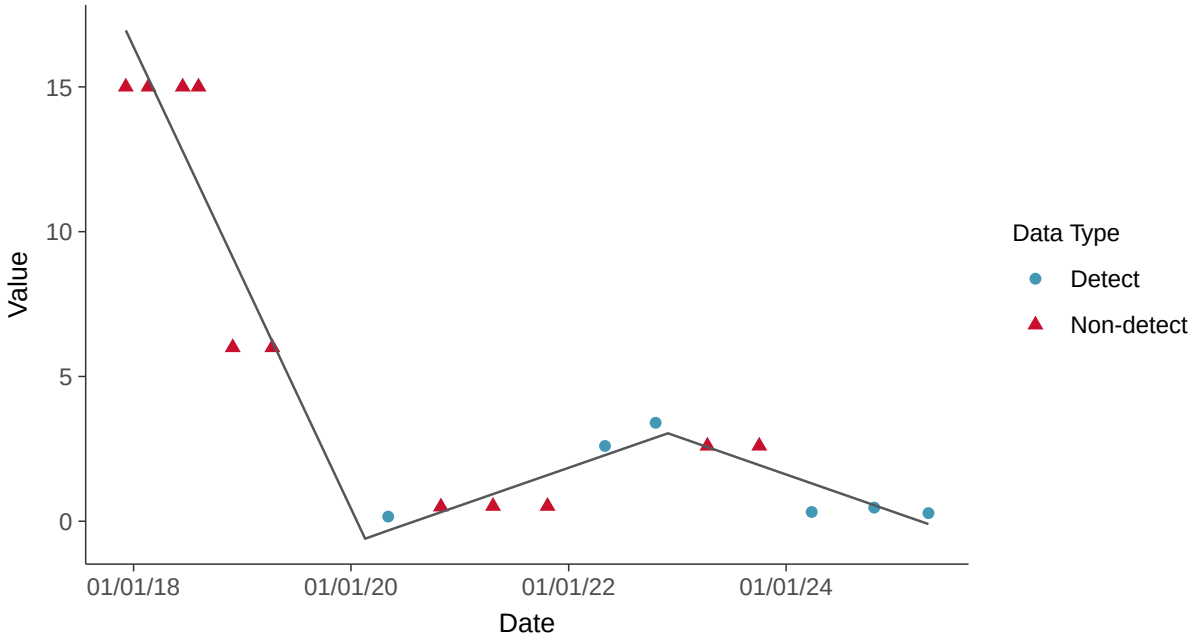
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-17004 (ug/L)



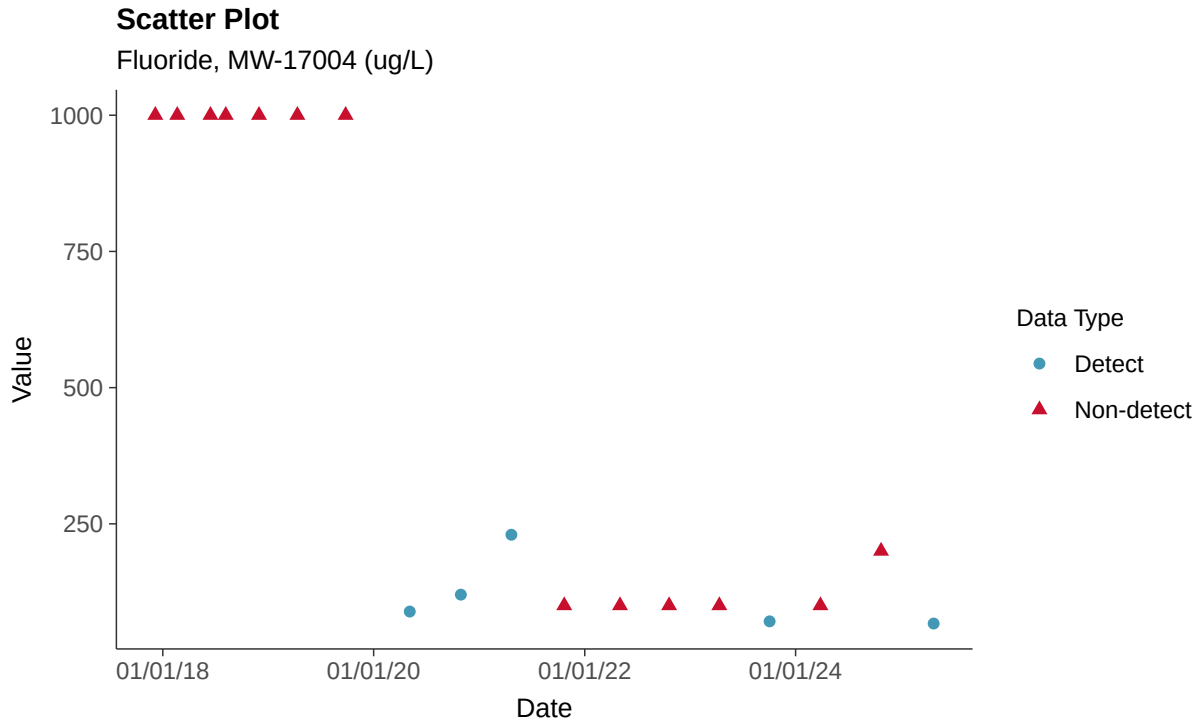
Trend Regression: Piecewise Linear-Linear-Linear

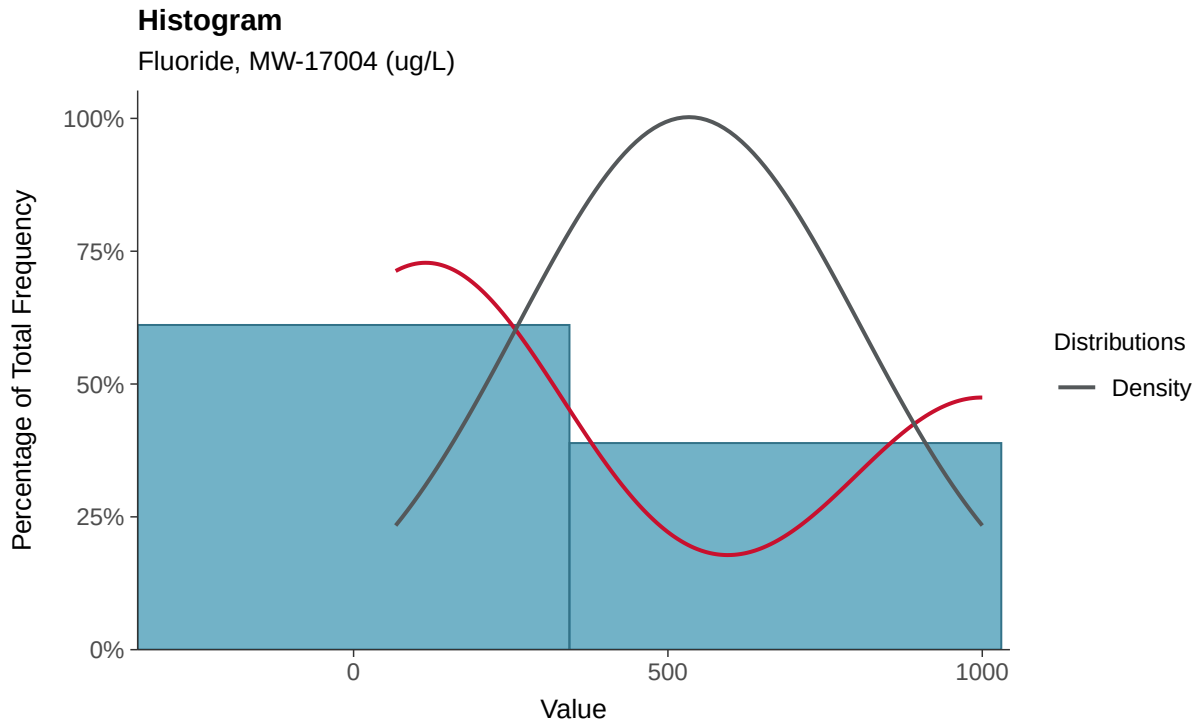
Cobalt, MW-17004 (ug/L)



Appendix IV: Fluoride, MW-17004

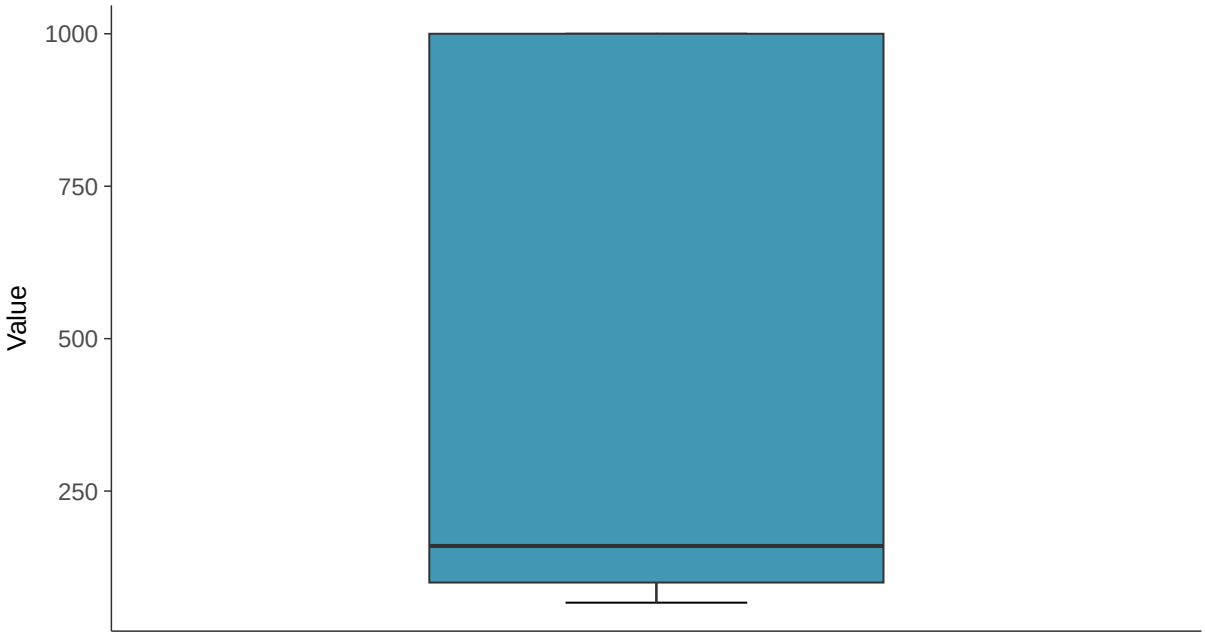
ID: 17_2_114





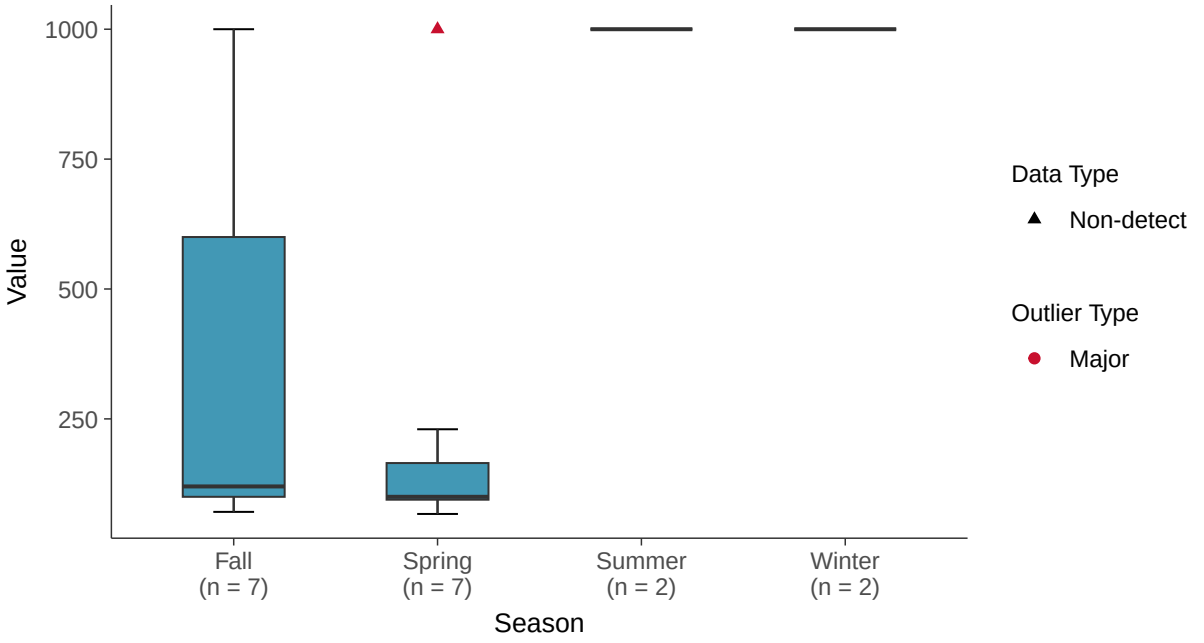
Boxplot

Fluoride, MW-17004 (ug/L)



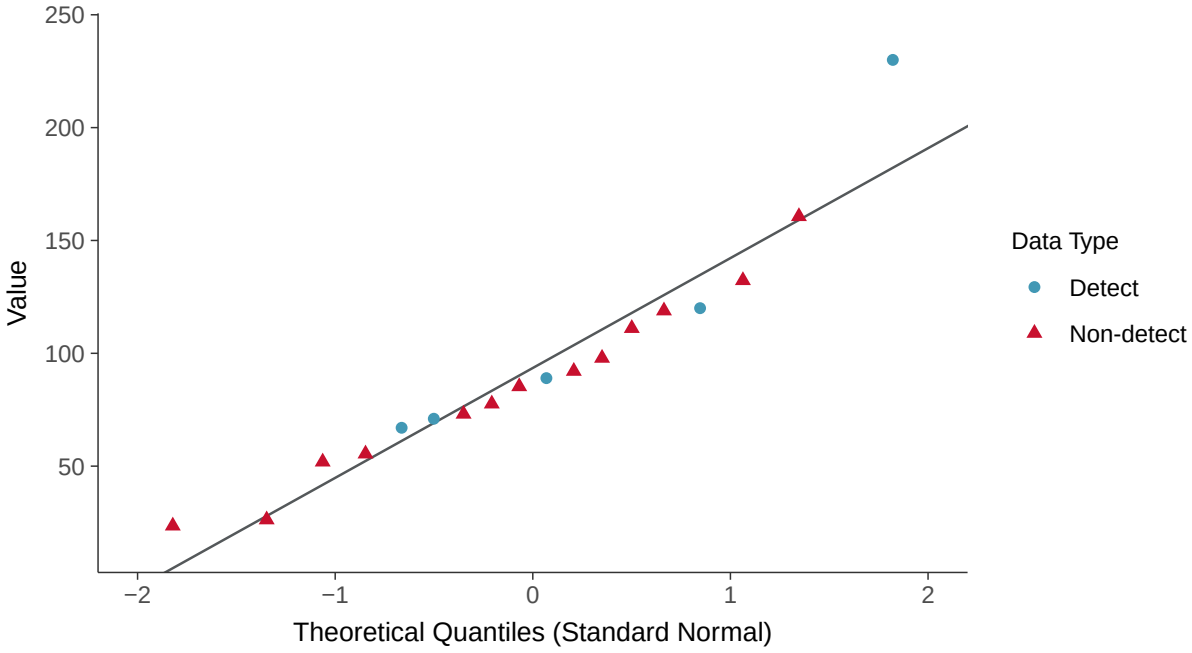
Boxplot by Season

Fluoride, MW-17004 (ug/L)



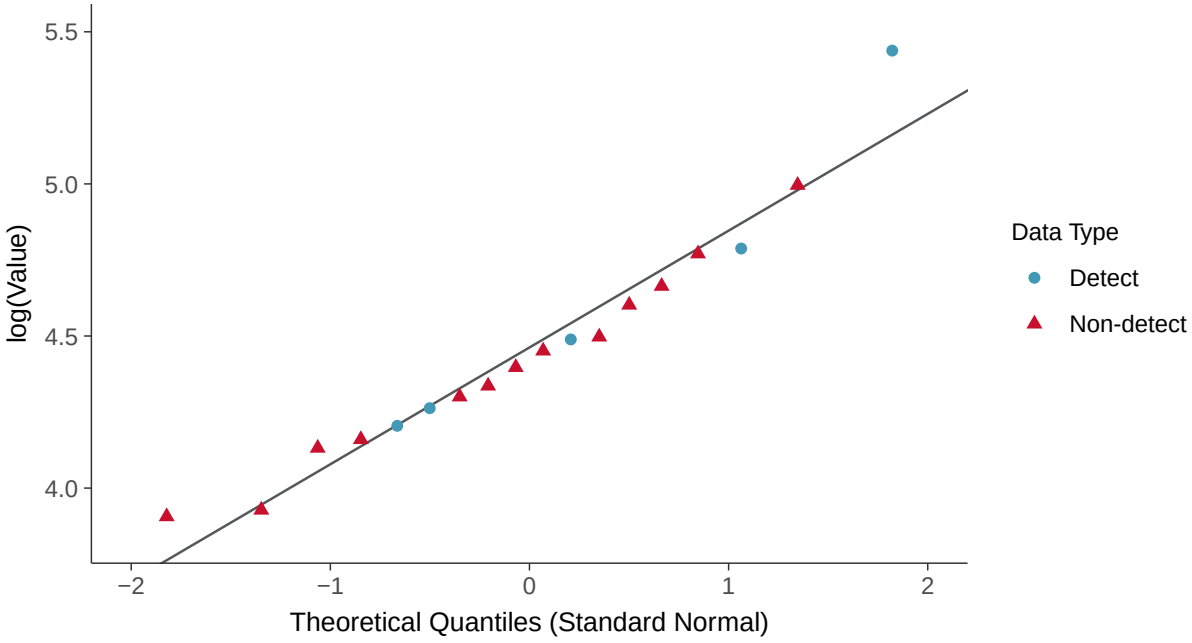
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17004 (ug/L)



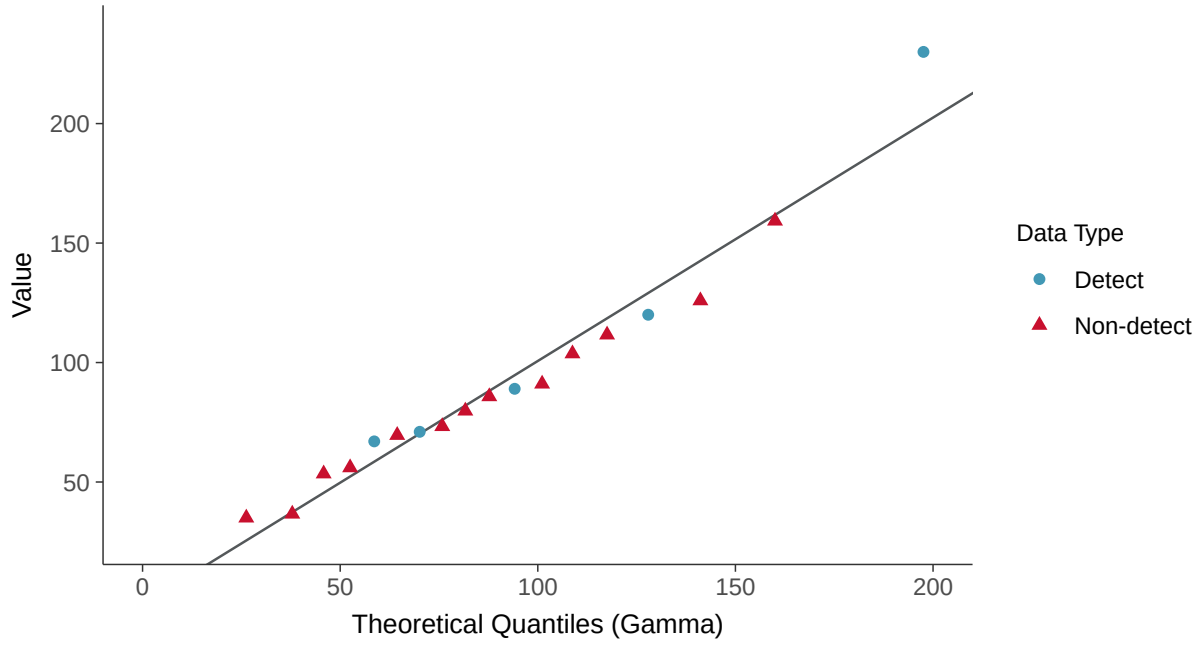
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17004 (ug/L)



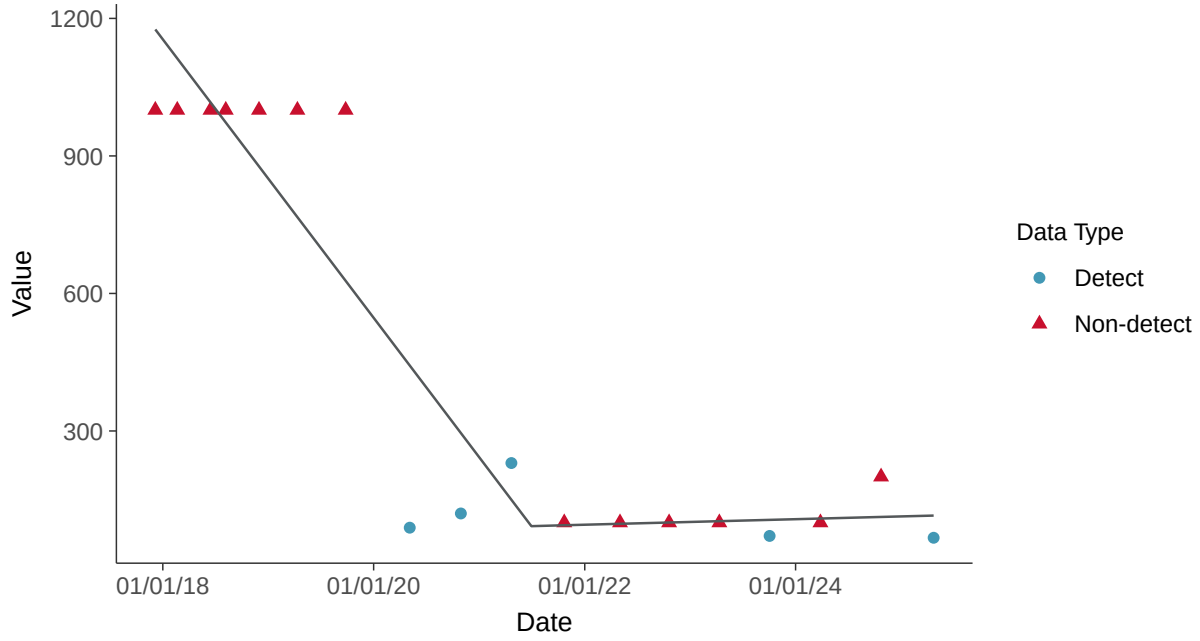
Gamma Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17004 (ug/L)



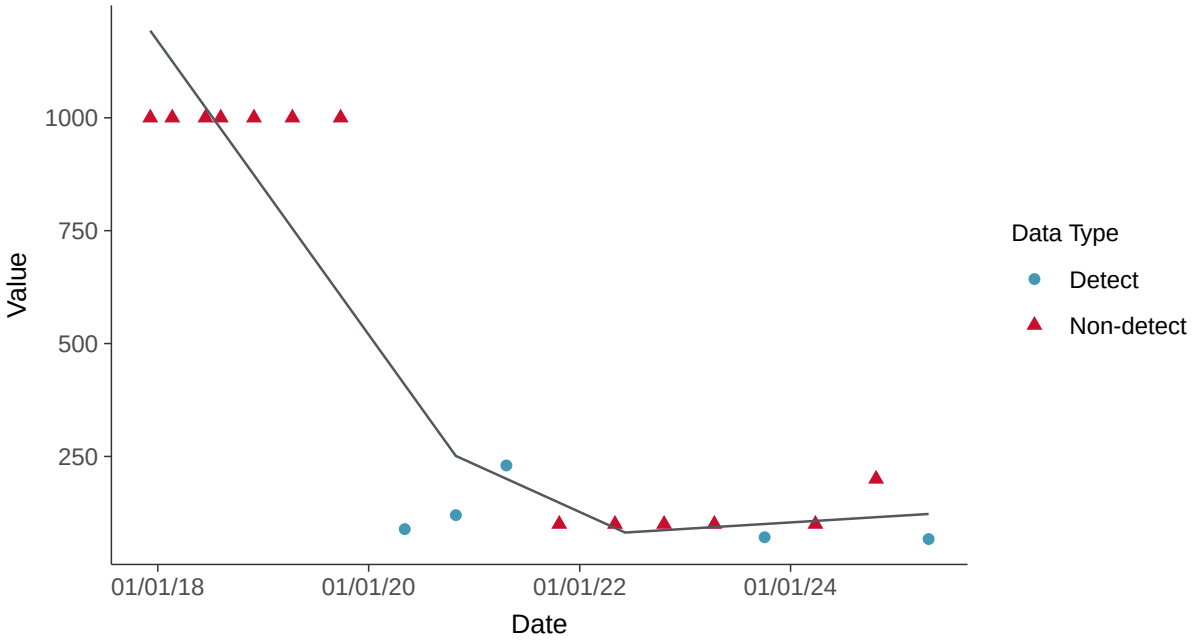
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-17004 (ug/L)



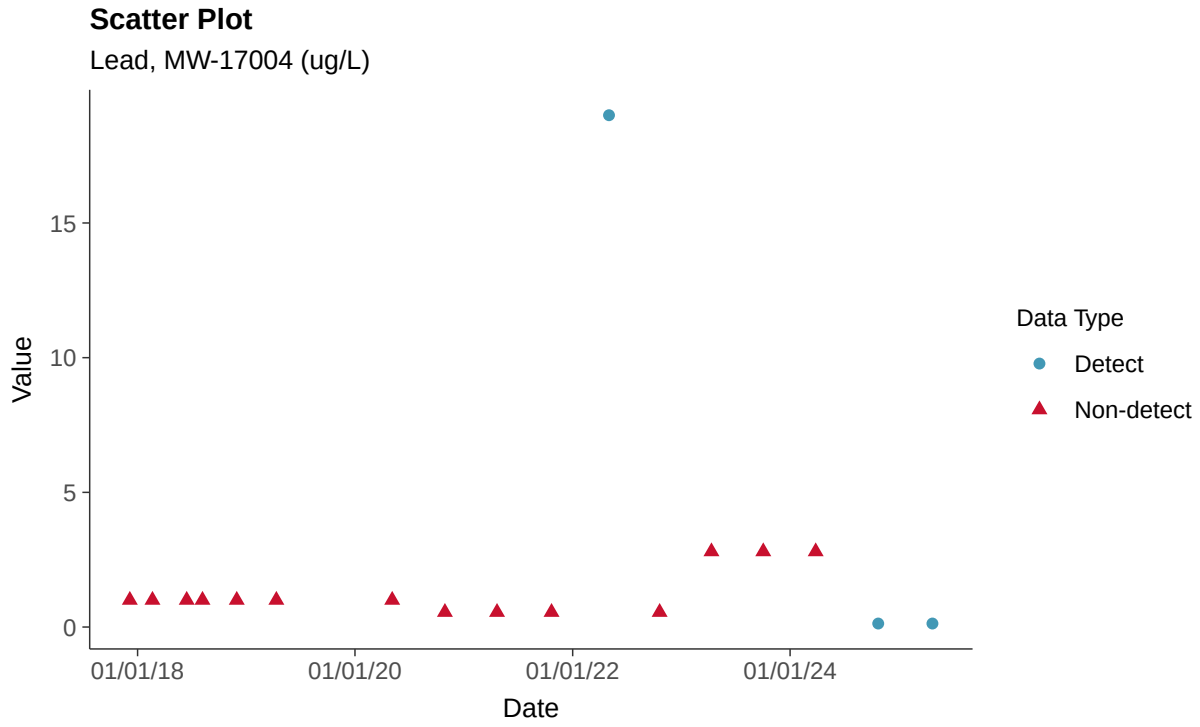
Trend Regression: Piecewise Linear-Linear-Linear

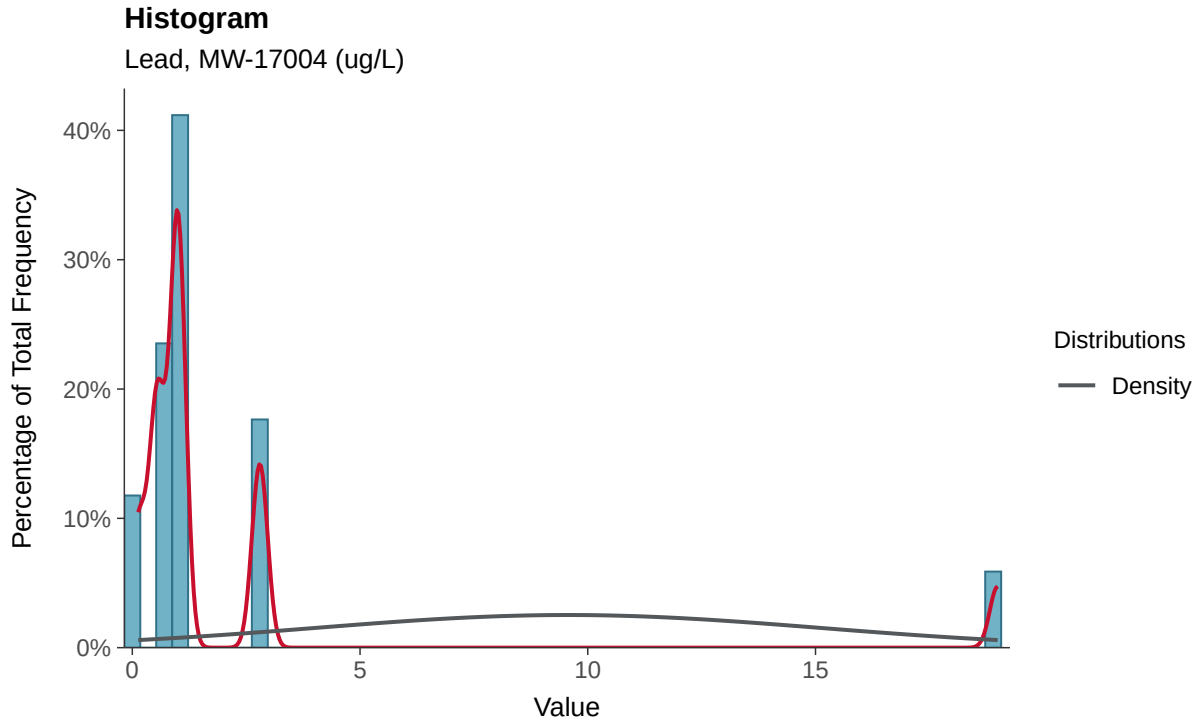
Fluoride, MW-17004 (ug/L)



Appendix IV: Lead, MW-17004

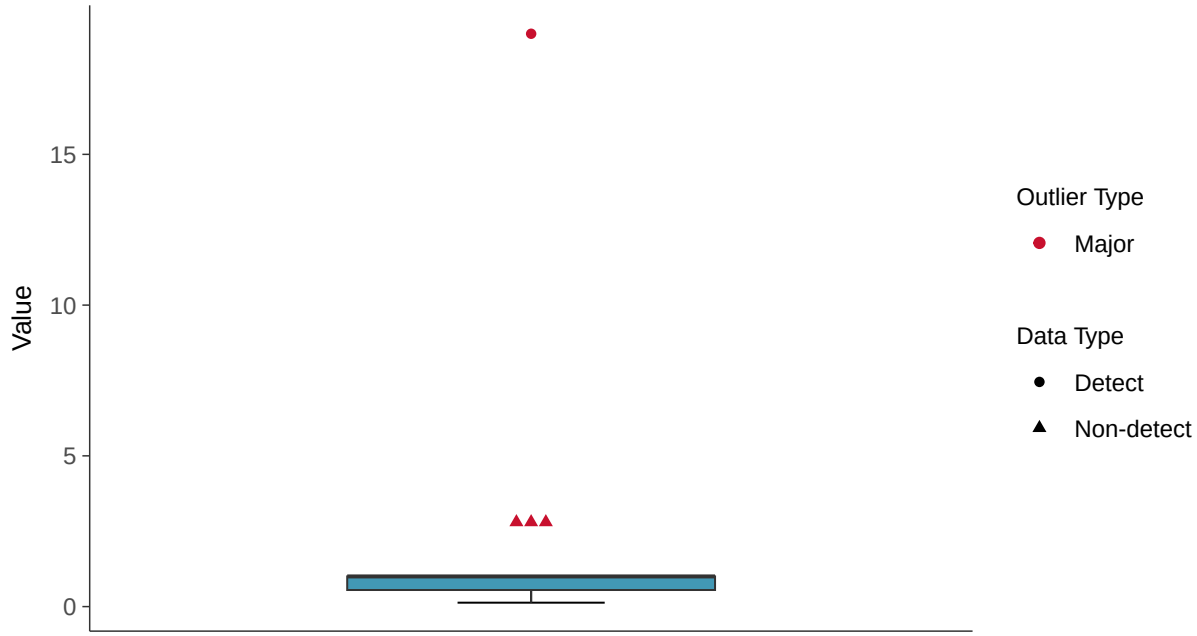
ID: 17_2_116





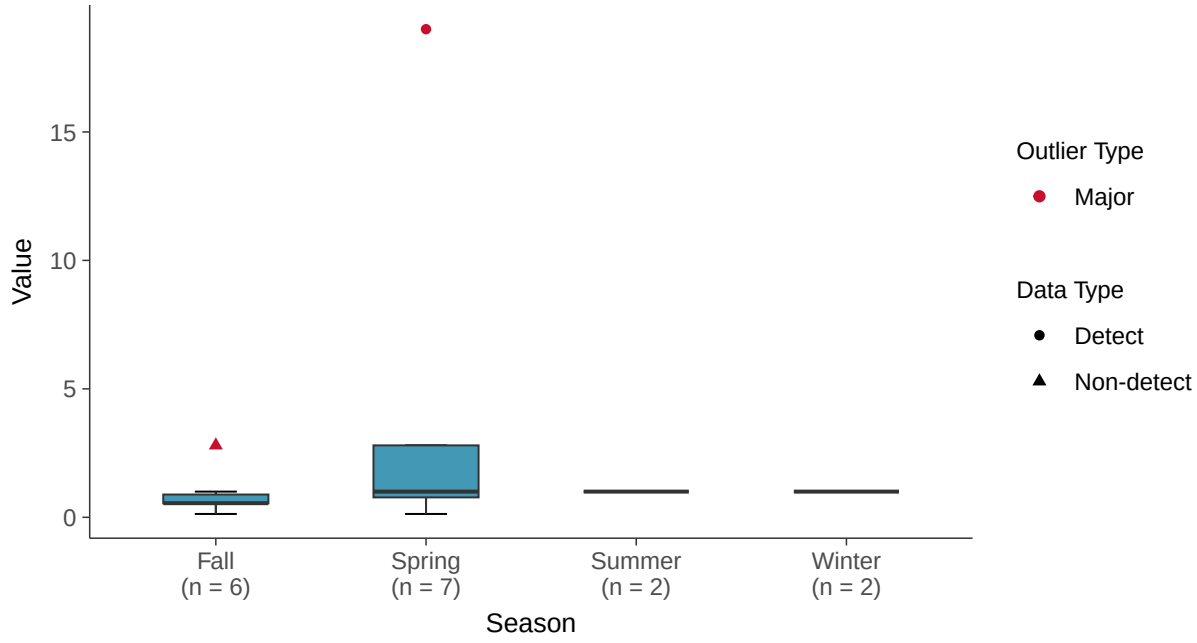
Boxplot

Lead, MW-17004 (ug/L)



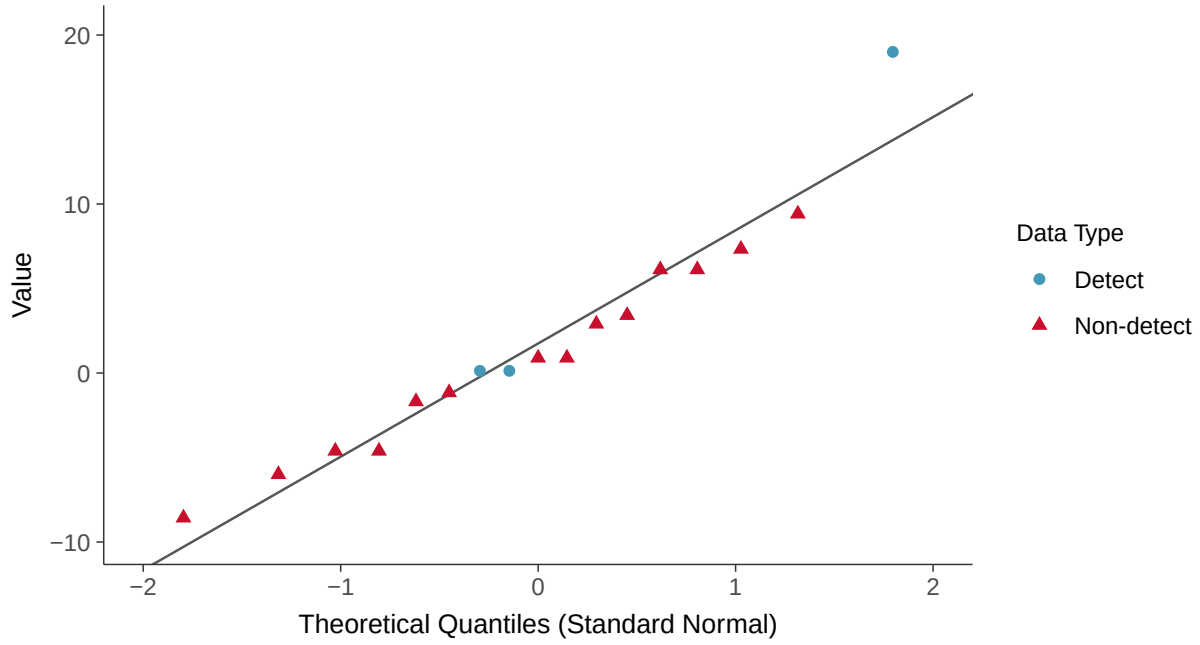
Boxplot by Season

Lead, MW-17004 (ug/L)



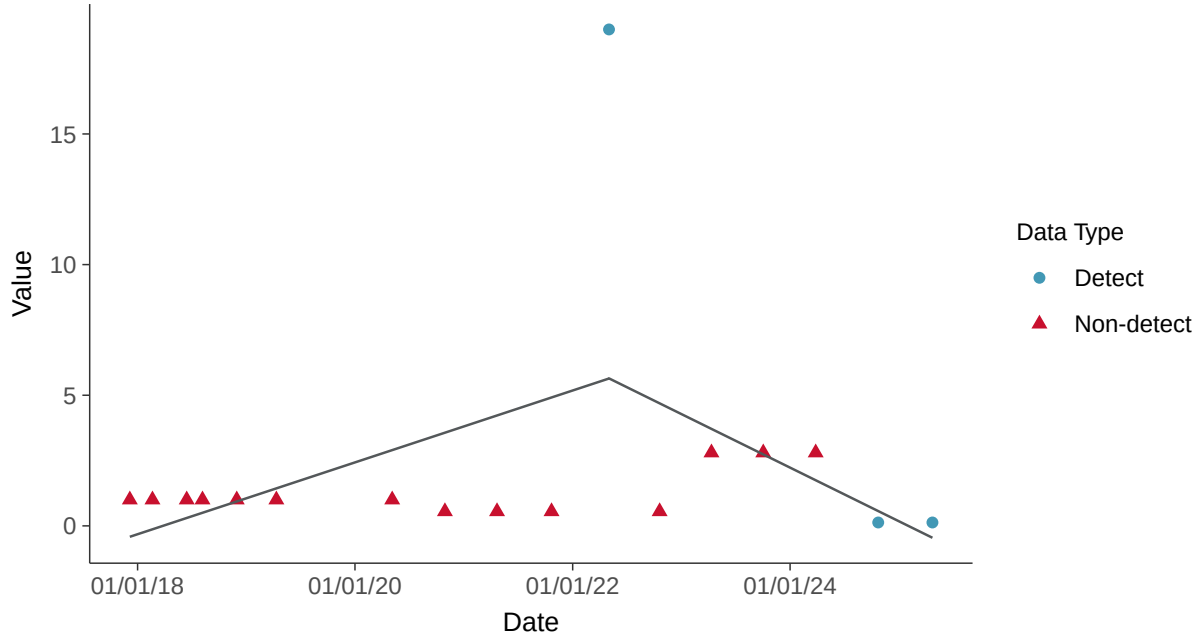
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-17004 (ug/L)



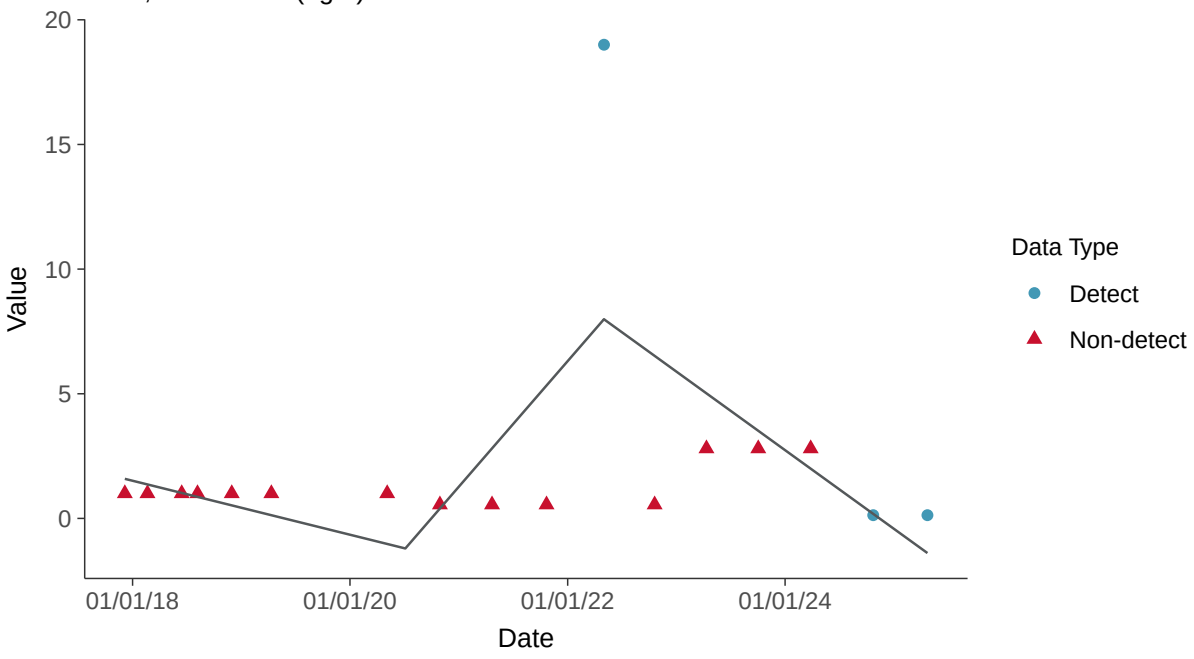
Trend Regression: Piecewise Linear-Linear

Lead, MW-17004 (ug/L)



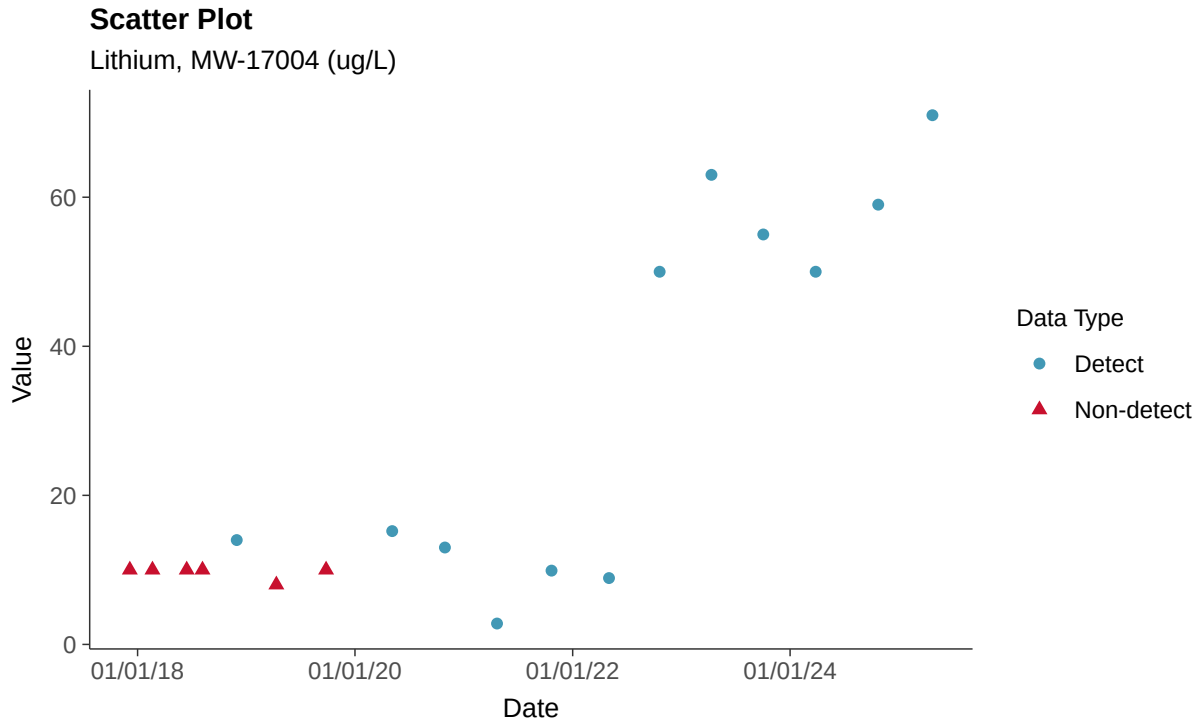
Trend Regression: Piecewise Linear-Linear-Linear

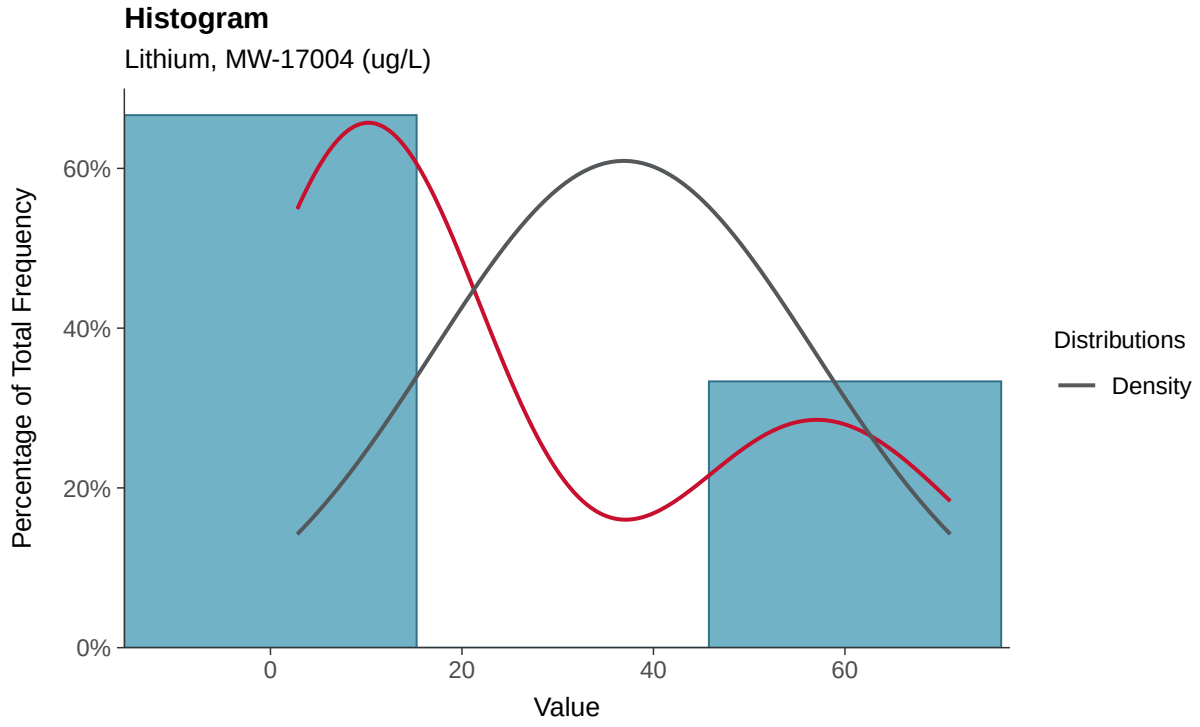
Lead, MW-17004 (ug/L)



Appendix IV: Lithium, MW-17004

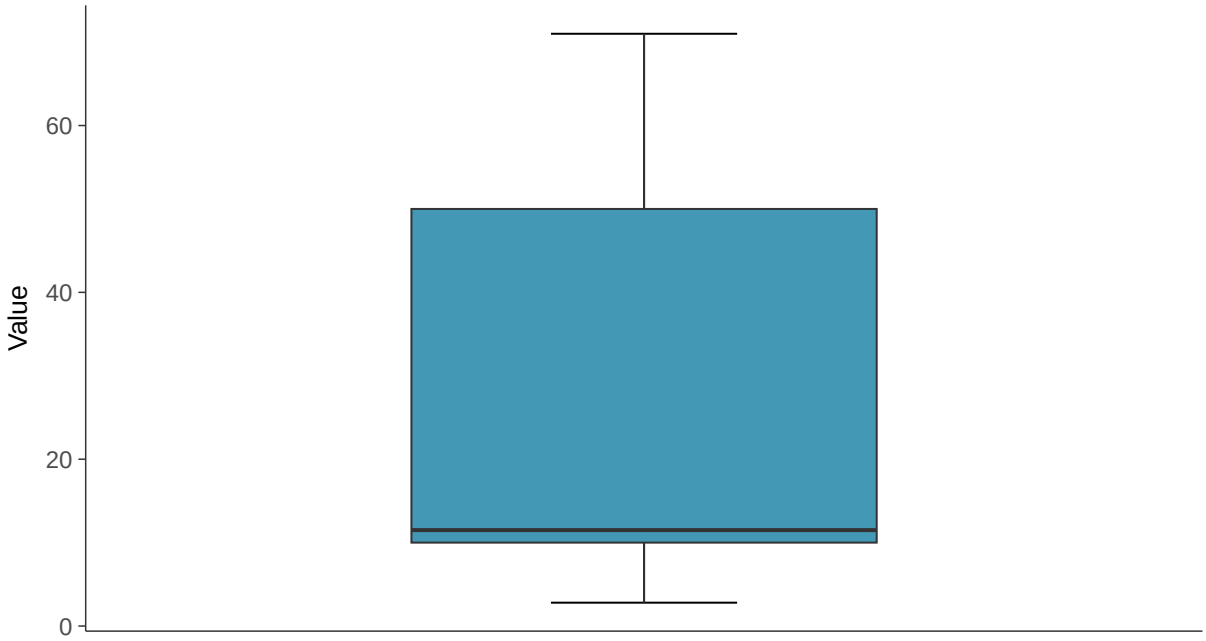
ID: 17_2_117





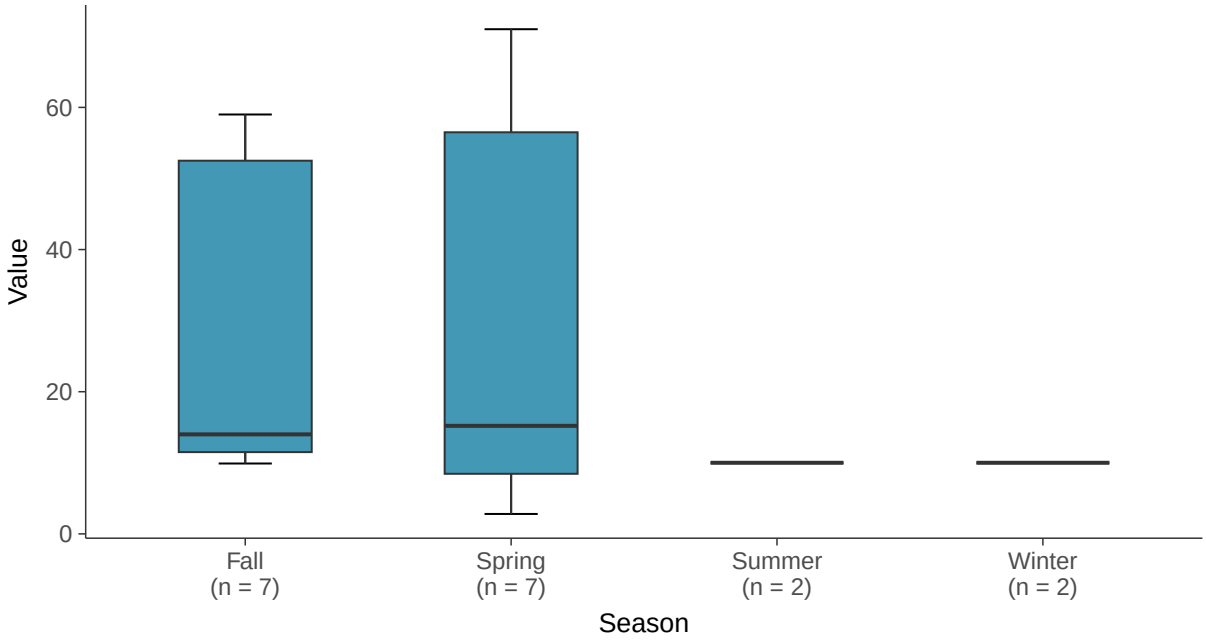
Boxplot

Lithium, MW-17004 (ug/L)



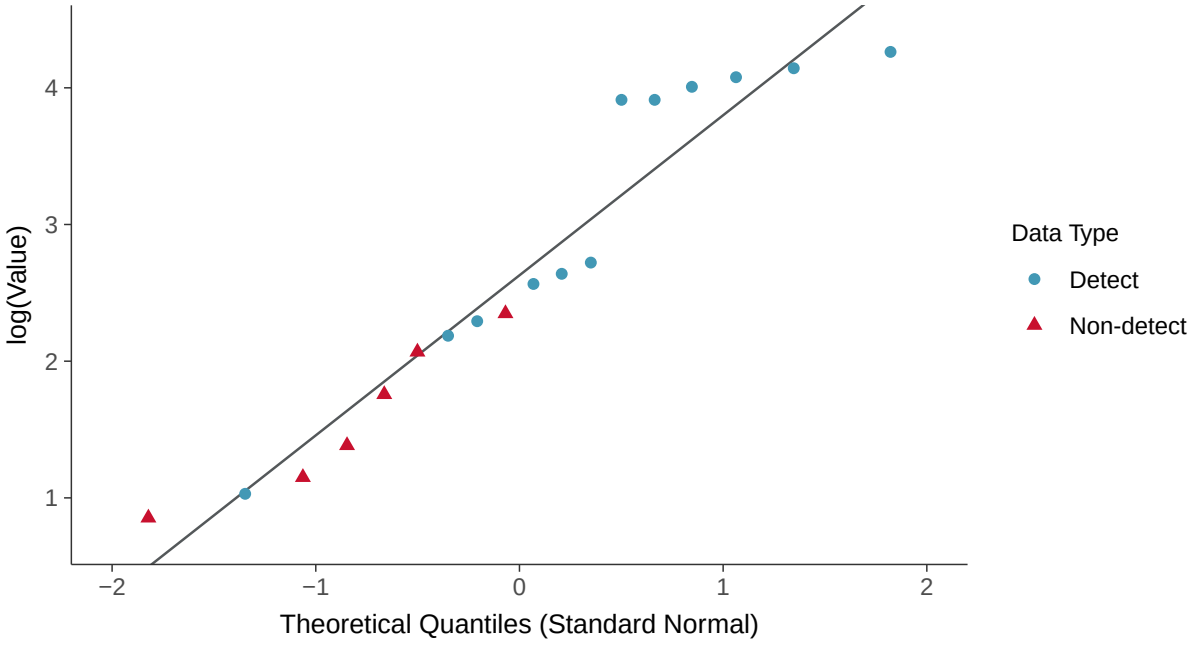
Boxplot by Season

Lithium, MW-17004 (ug/L)



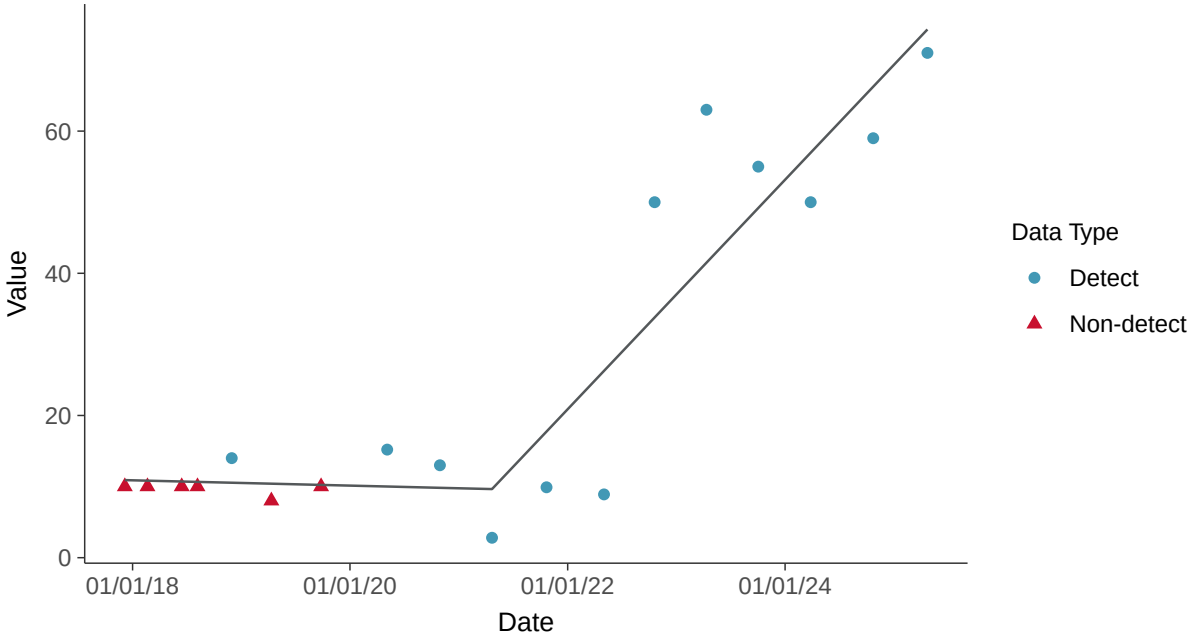
Lognormal Q-Q plot using ROS Imputed Estimates

Lithium, MW-17004 (ug/L)



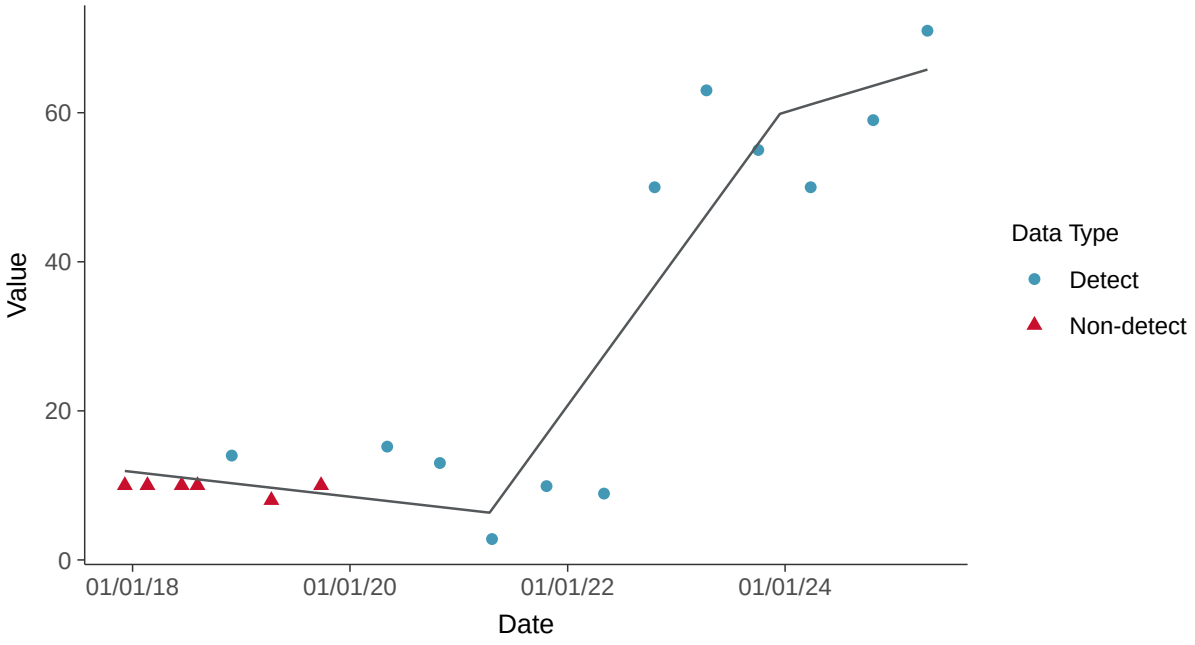
Trend Regression: Piecewise Linear-Linear

Lithium, MW-17004 (ug/L)



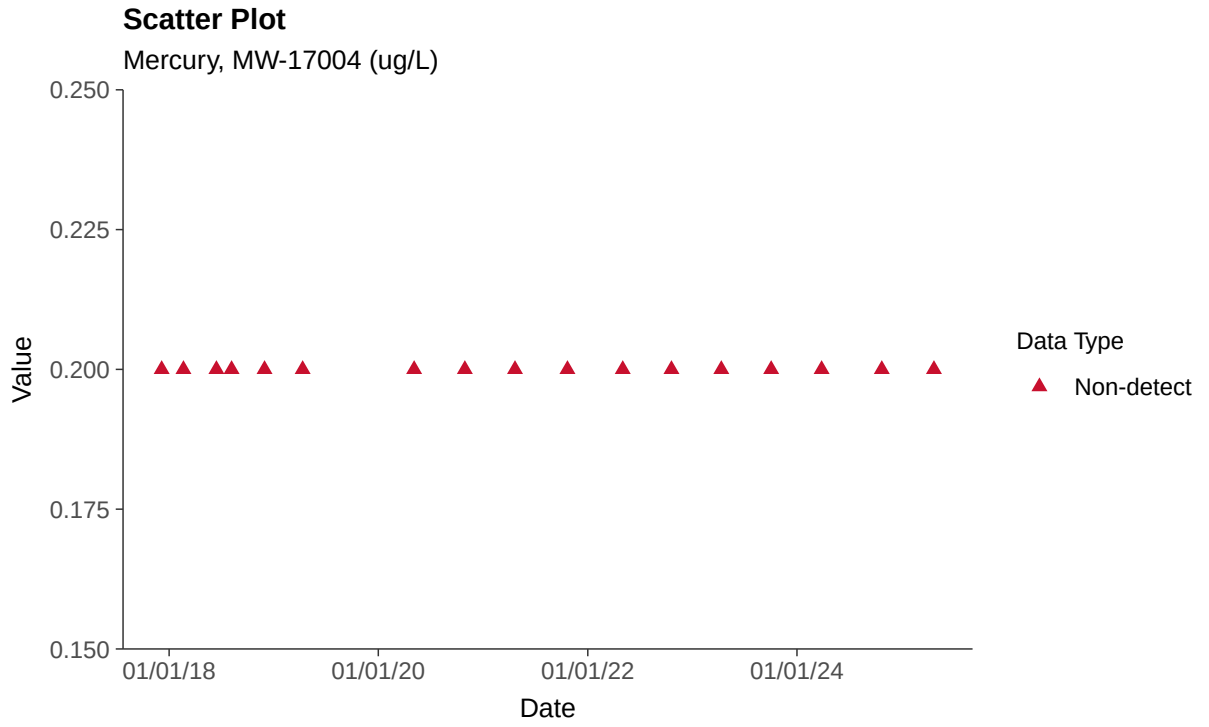
Trend Regression: Piecewise Linear-Linear-Linear

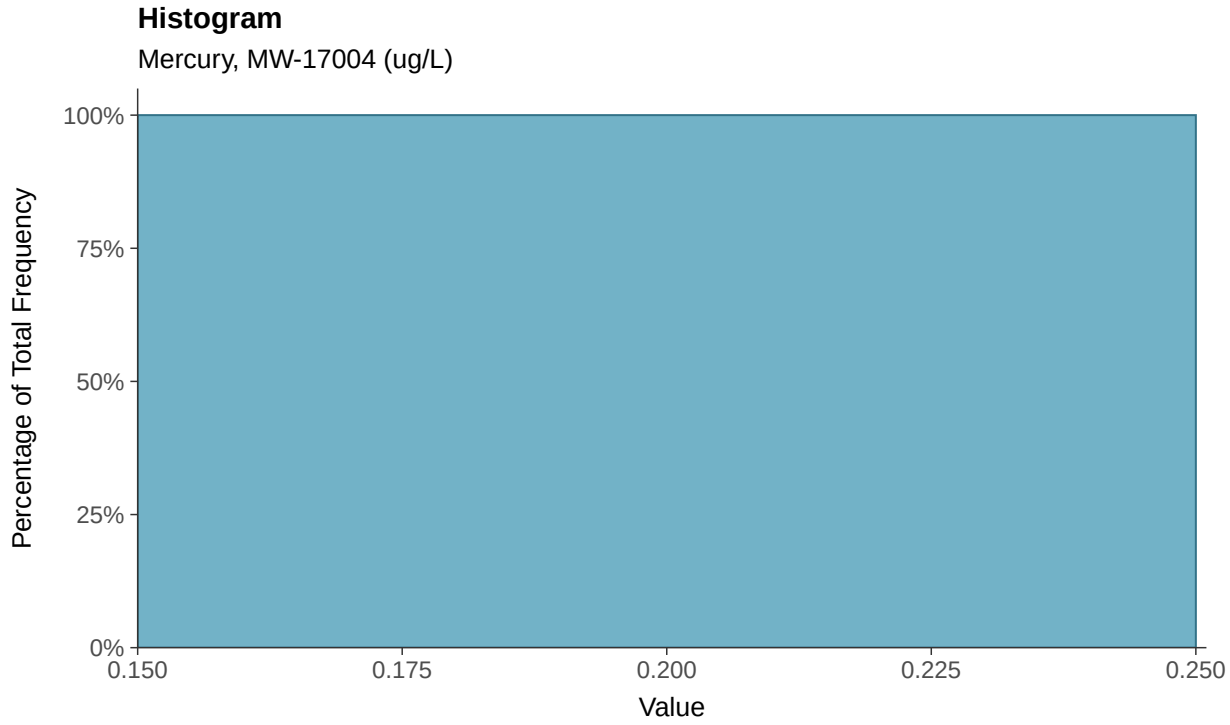
Lithium, MW-17004 (ug/L)



Appendix IV: Mercury, MW-17004

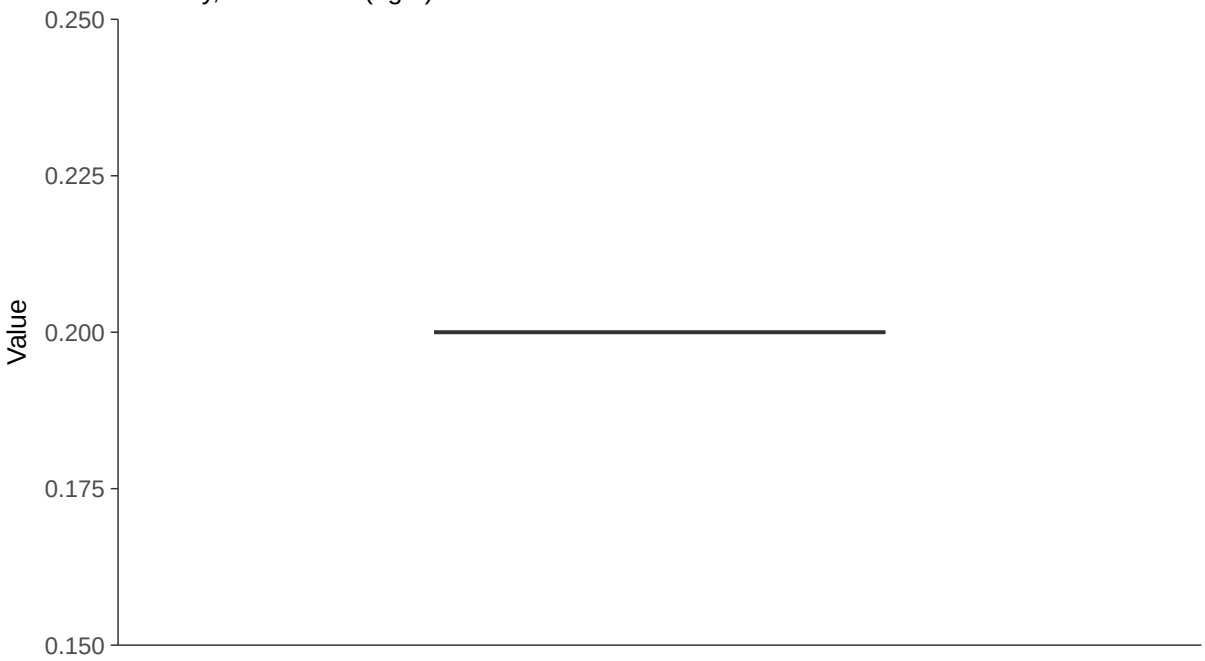
ID: 17_2_118





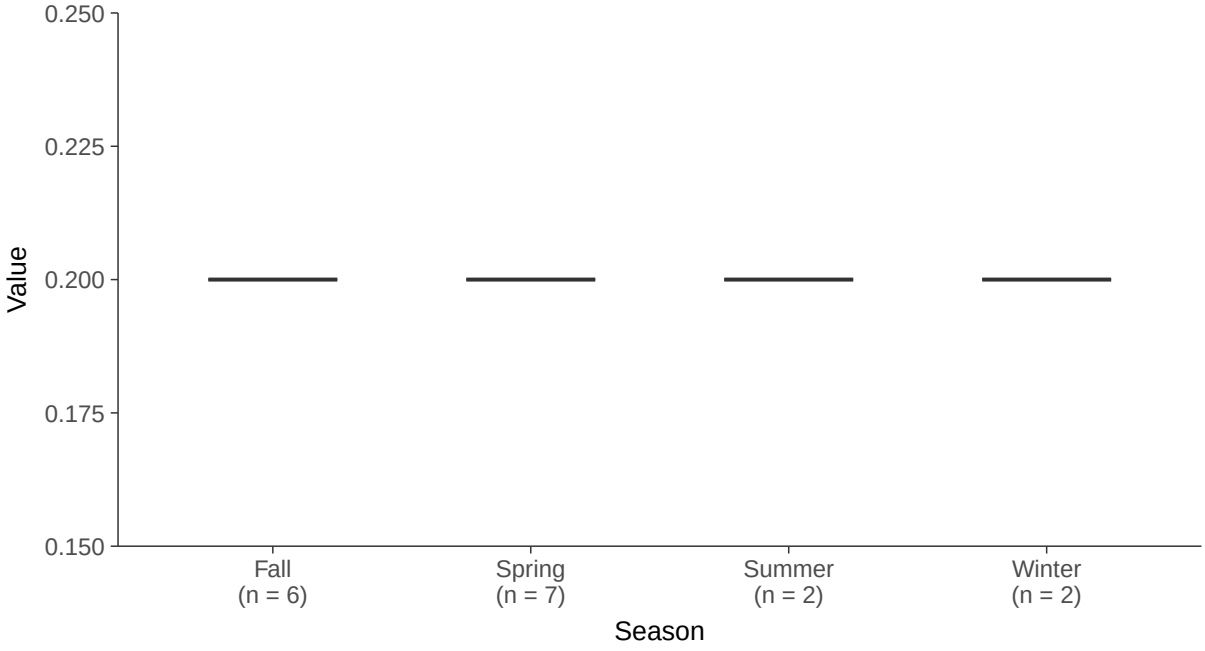
Boxplot

Mercury, MW-17004 (ug/L)



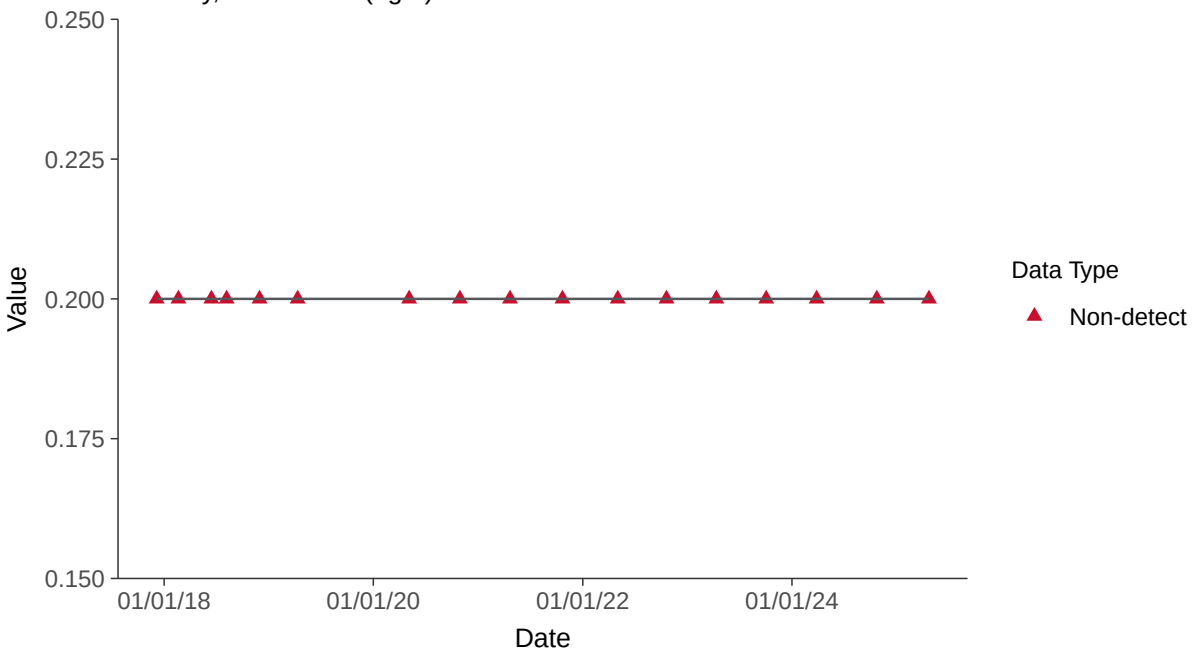
Boxplot by Season

Mercury, MW-17004 (ug/L)



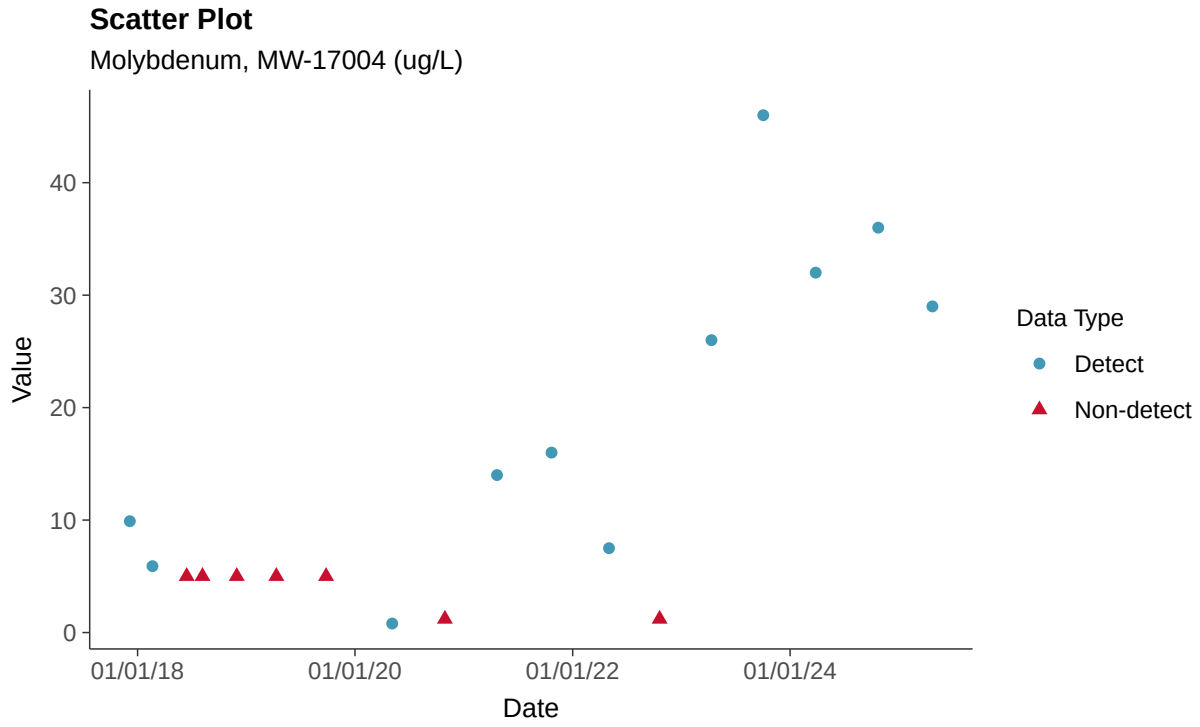
Trend Regression: Piecewise Linear-Linear

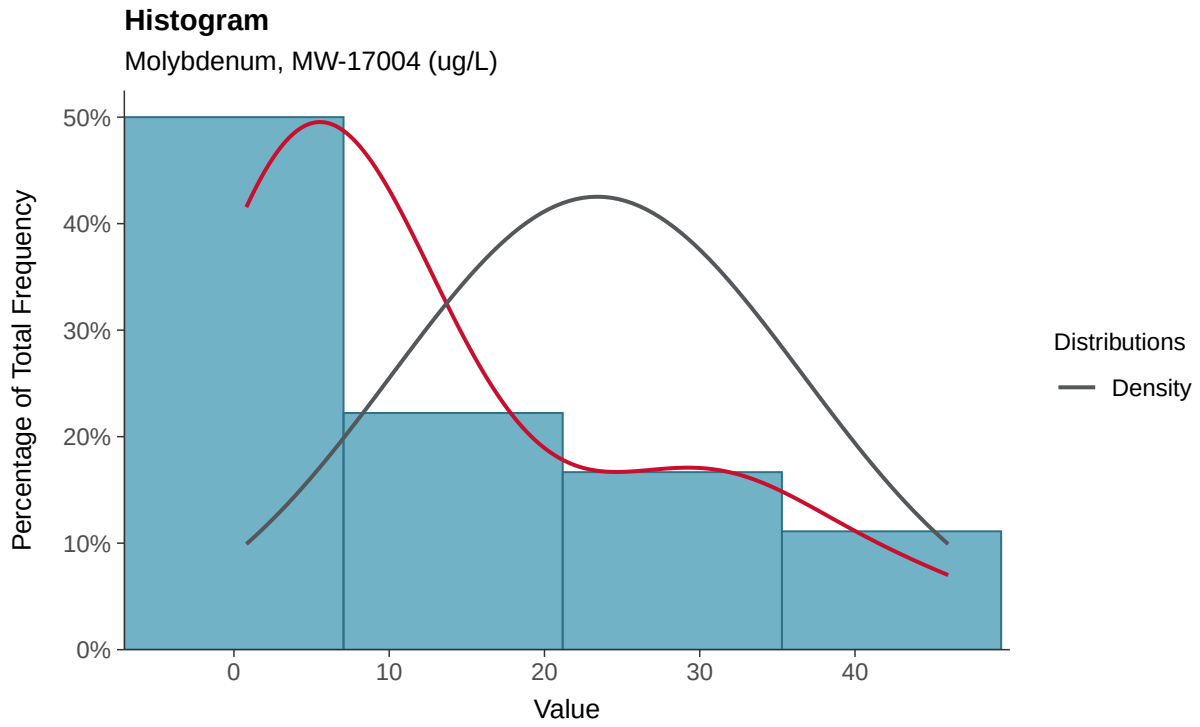
Mercury, MW-17004 (ug/L)



Appendix IV: Molybdenum, MW-17004

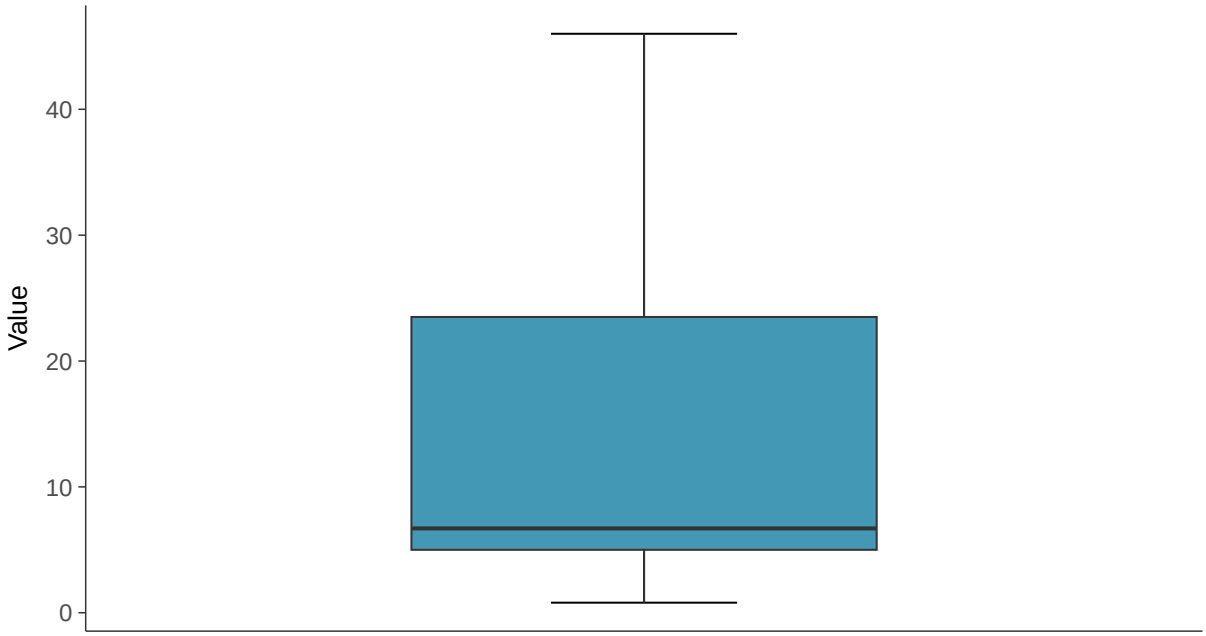
ID: 17_2_119





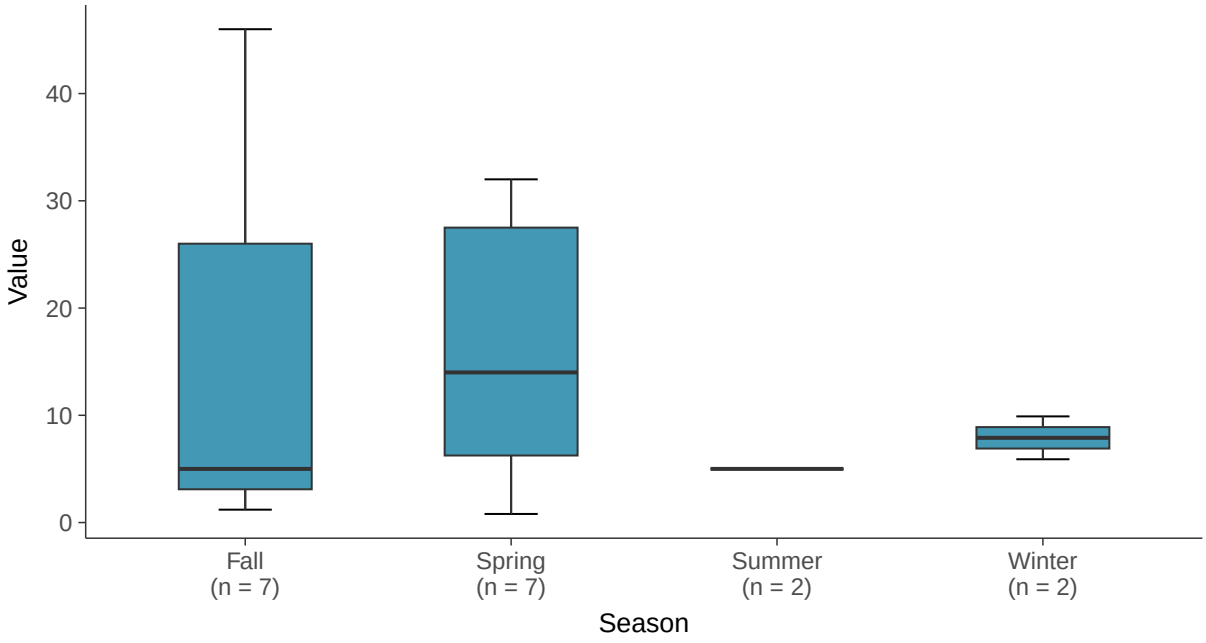
Boxplot

Molybdenum, MW-17004 (ug/L)



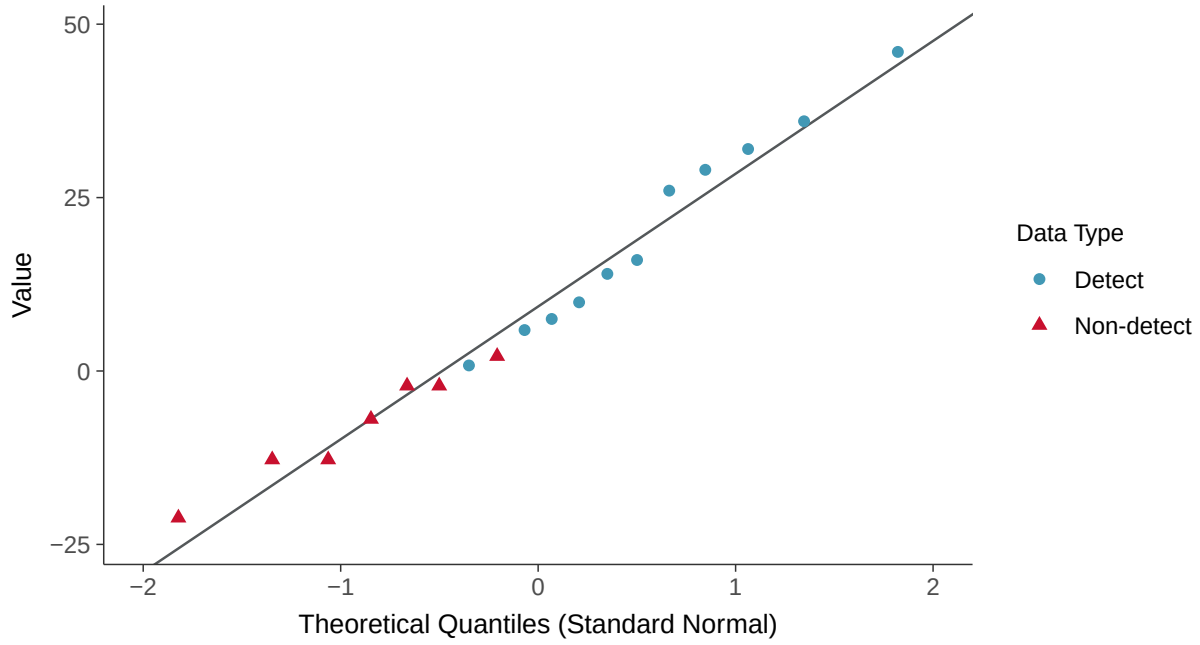
Boxplot by Season

Molybdenum, MW-17004 (ug/L)



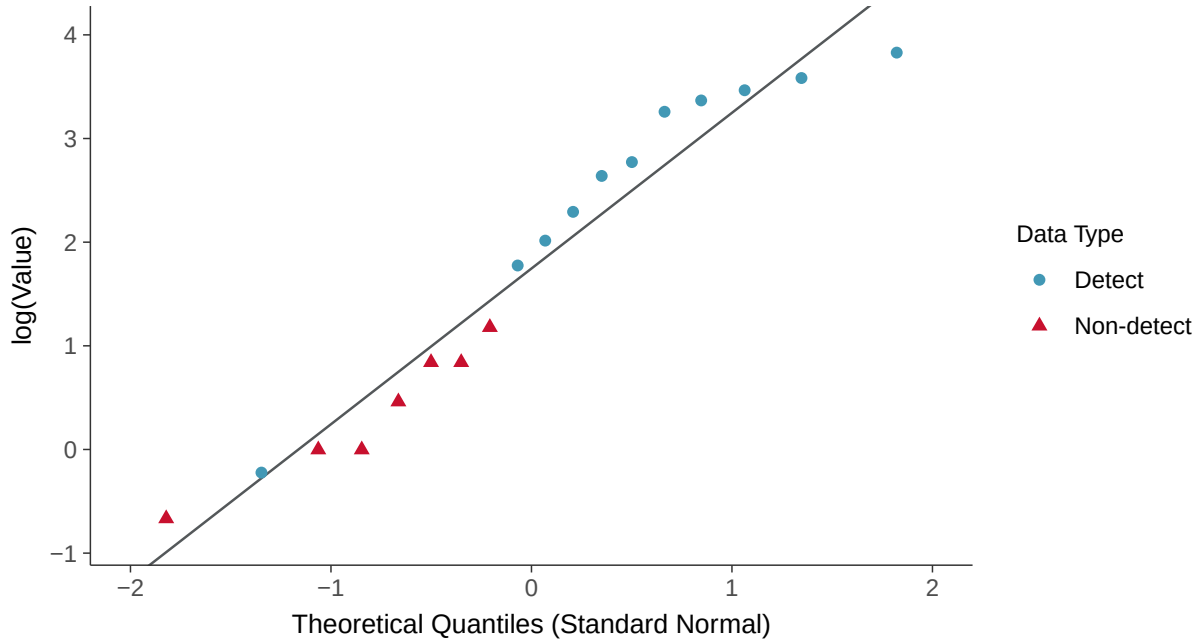
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17004 (ug/L)



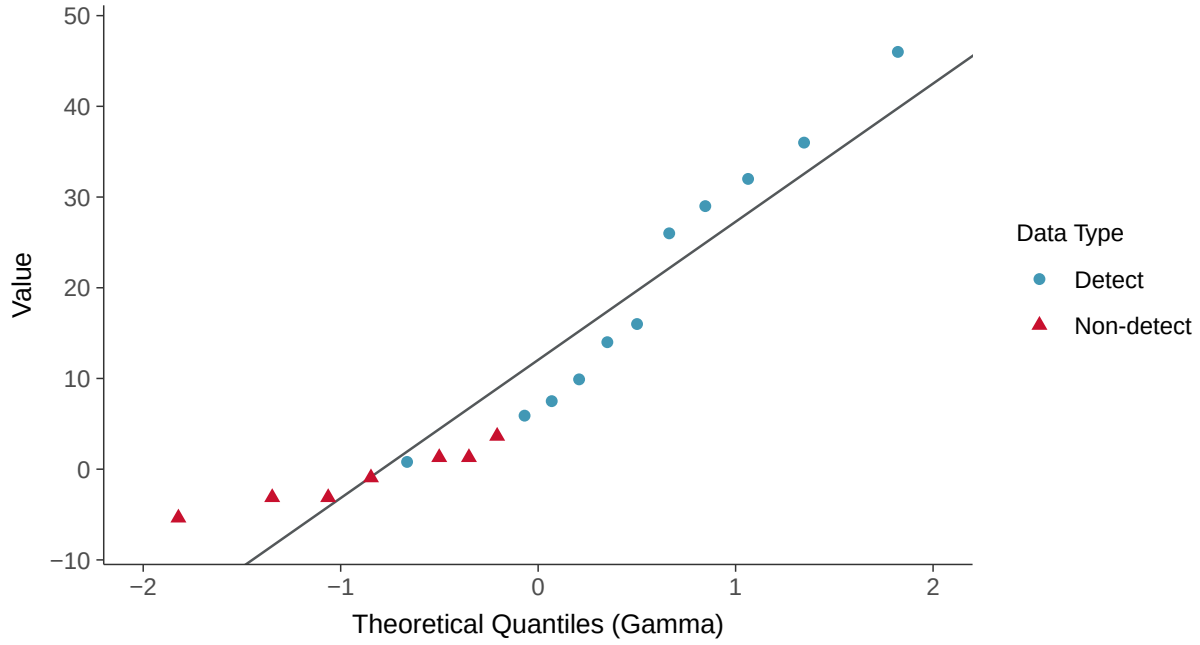
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17004 (ug/L)



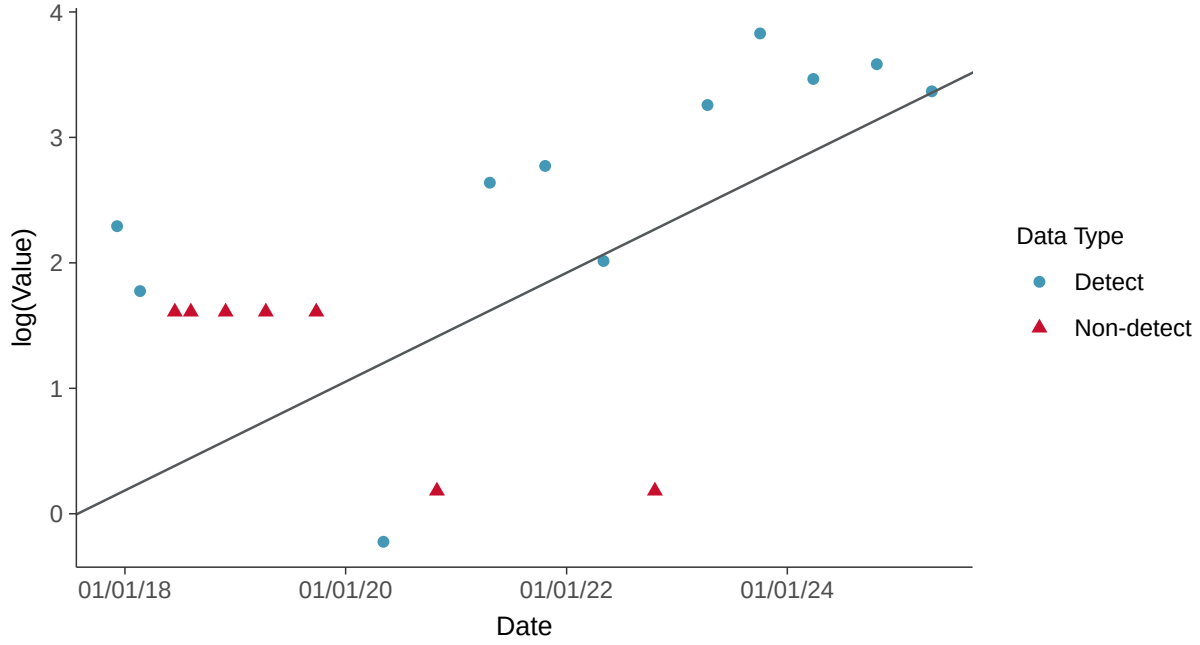
Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17004 (ug/L)



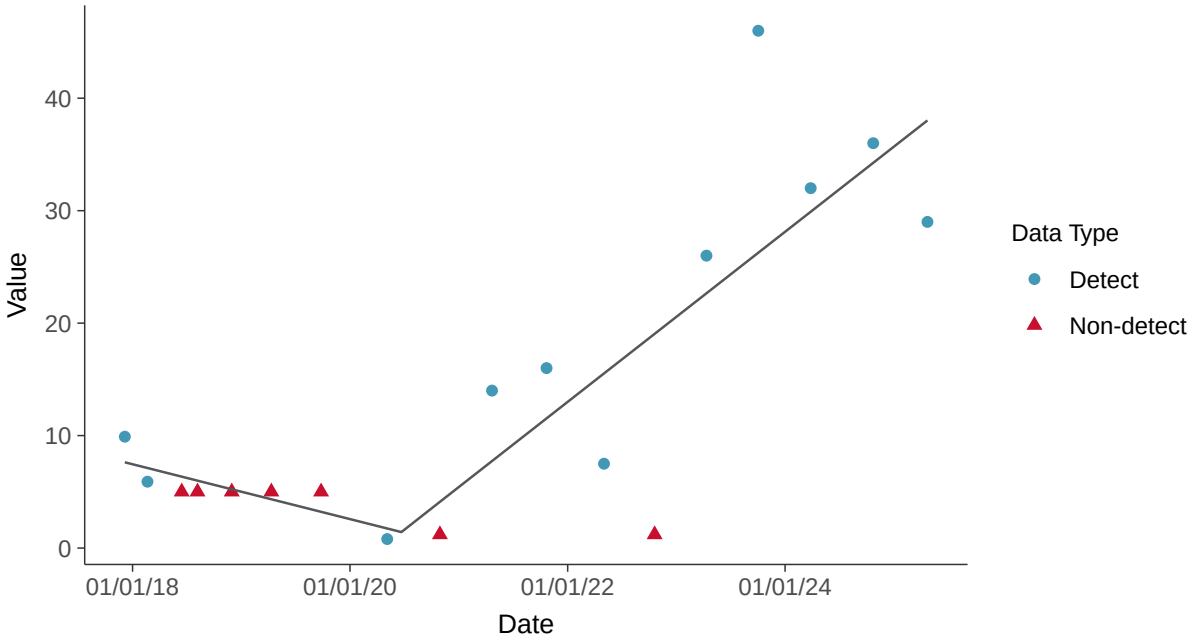
Trend Regression: Lognormal MLE

Molybdenum, MW-17004 (ug/L)



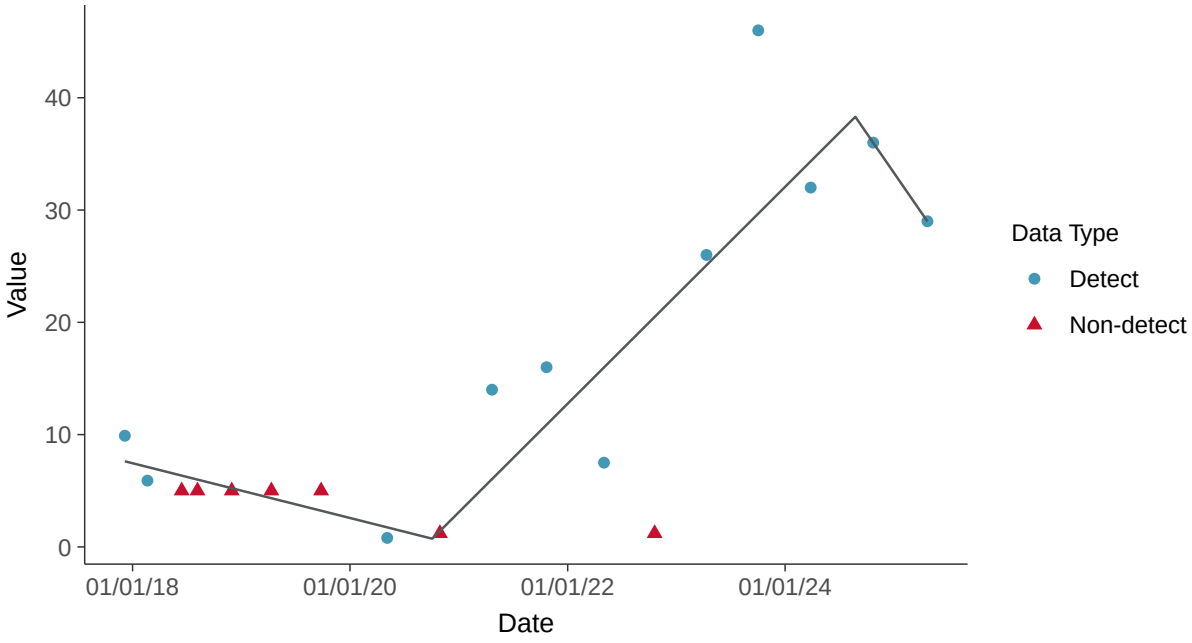
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-17004 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-17004 (ug/L)

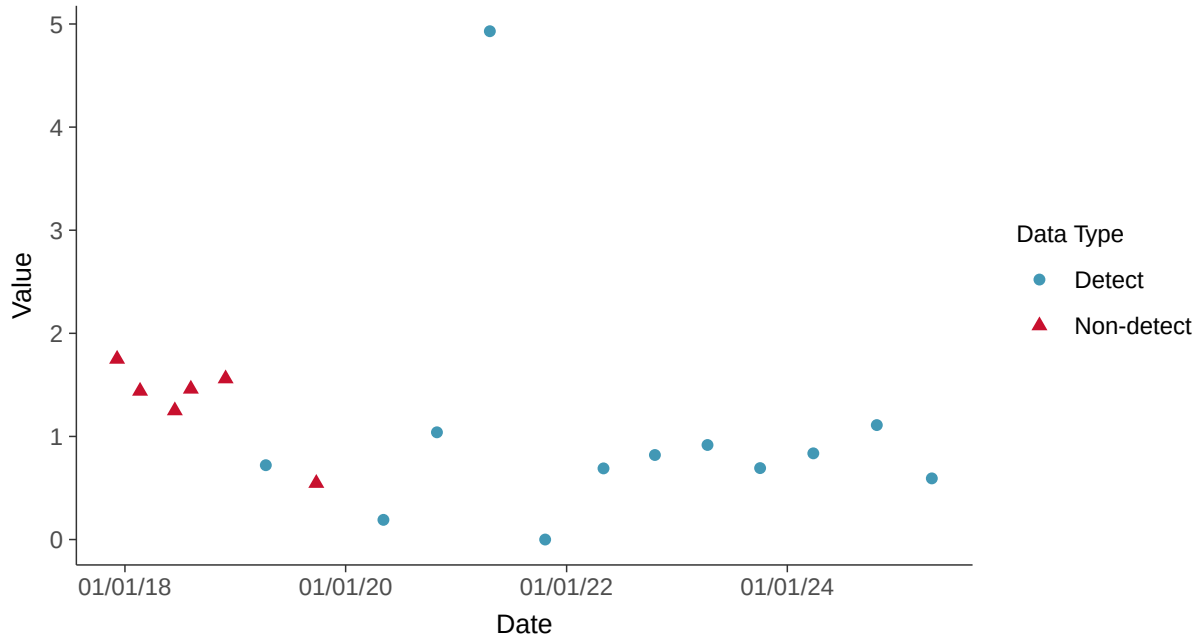


Appendix IV: Radium-226+228, MW-17004

ID: 17_2_125

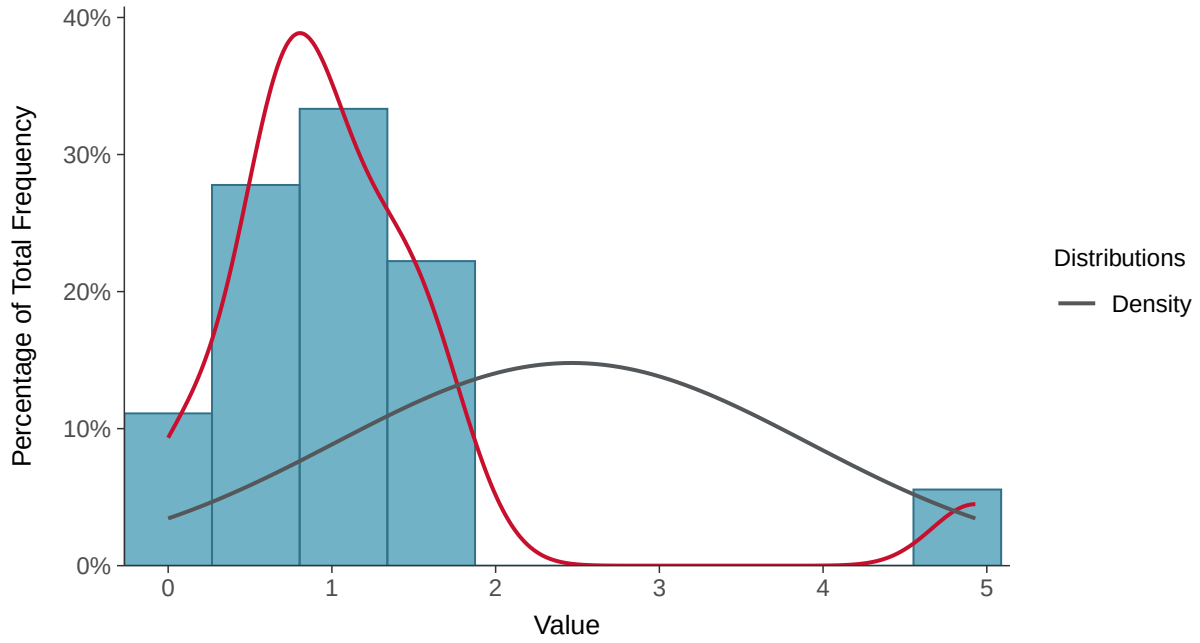
Scatter Plot

Radium-226+228, MW-17004 (pCi/L)



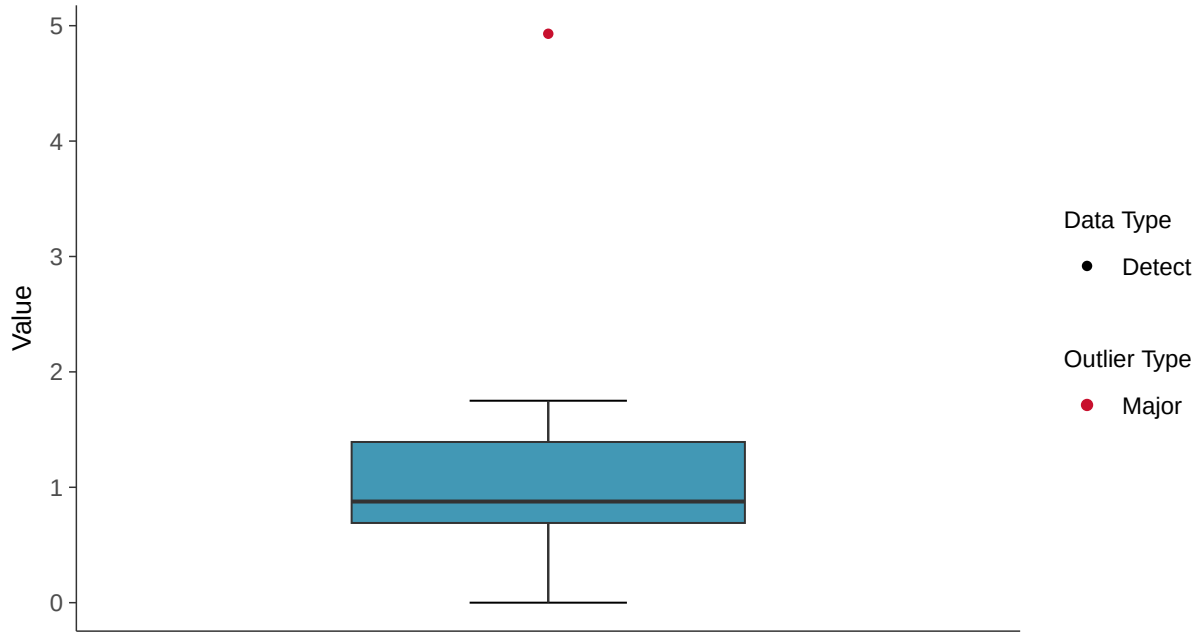
Histogram

Radium-226+228, MW-17004 (pCi/L)



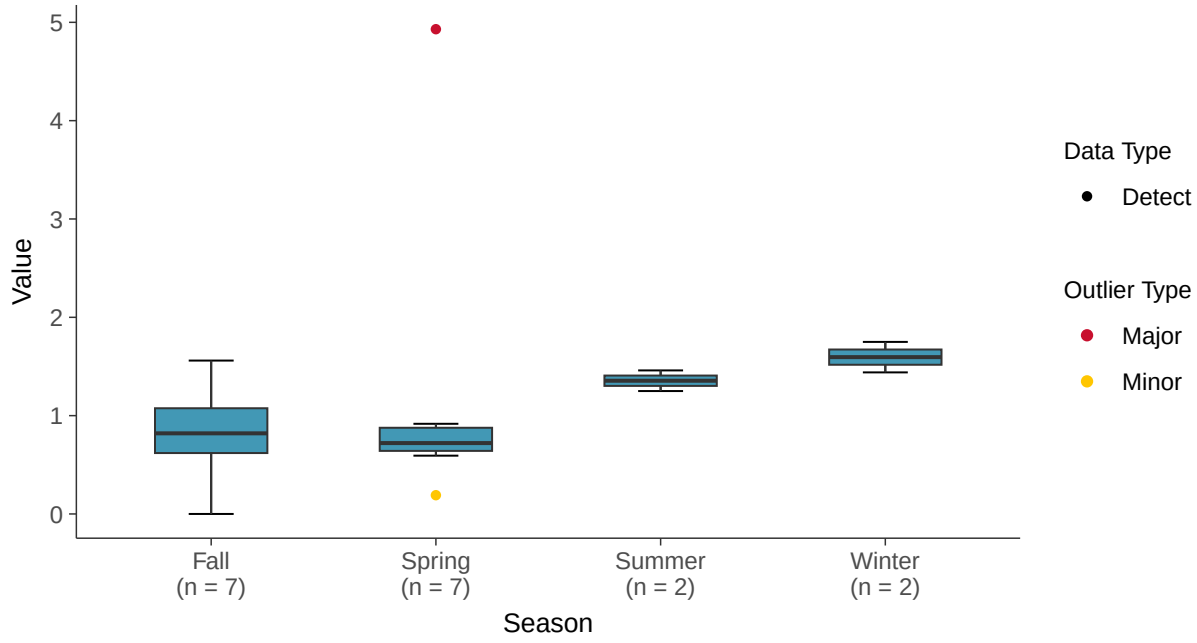
Boxplot

Radium-226+228, MW-17004 (pCi/L)



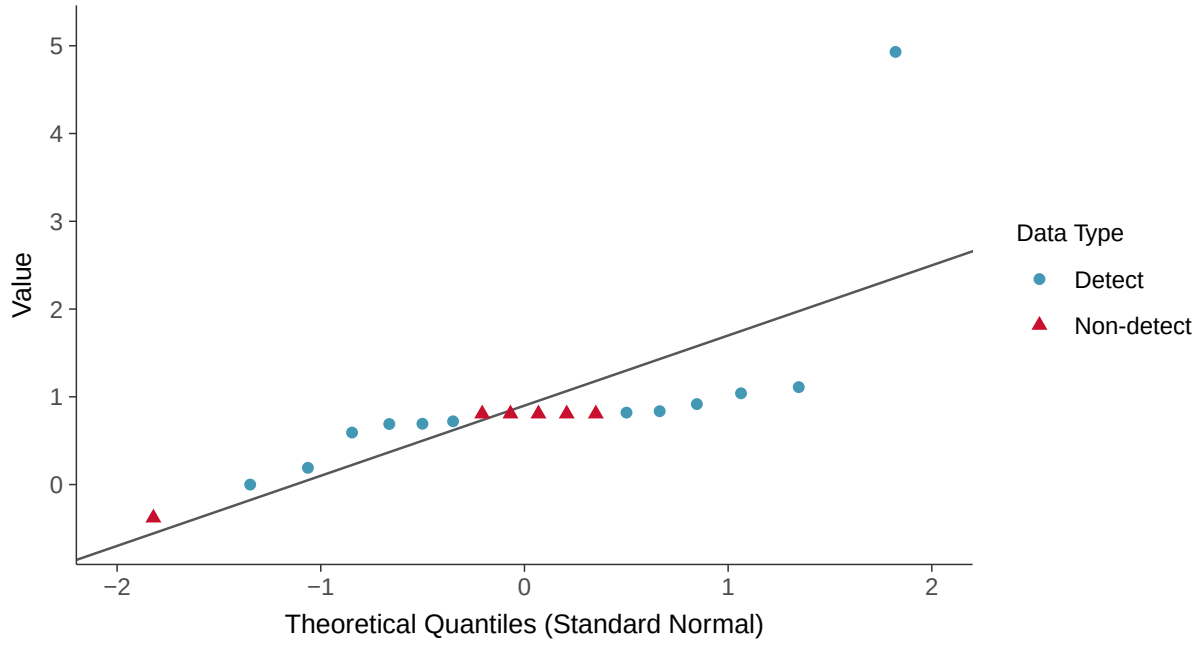
Boxplot by Season

Radium-226+228, MW-17004 (pCi/L)



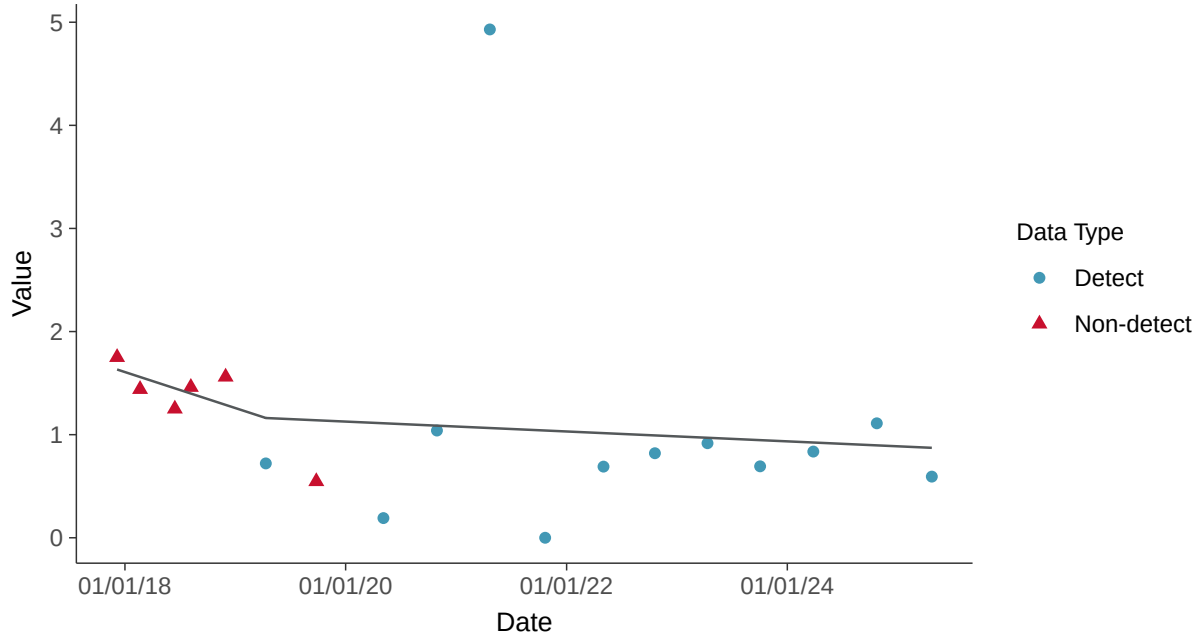
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-17004 (pCi/L)



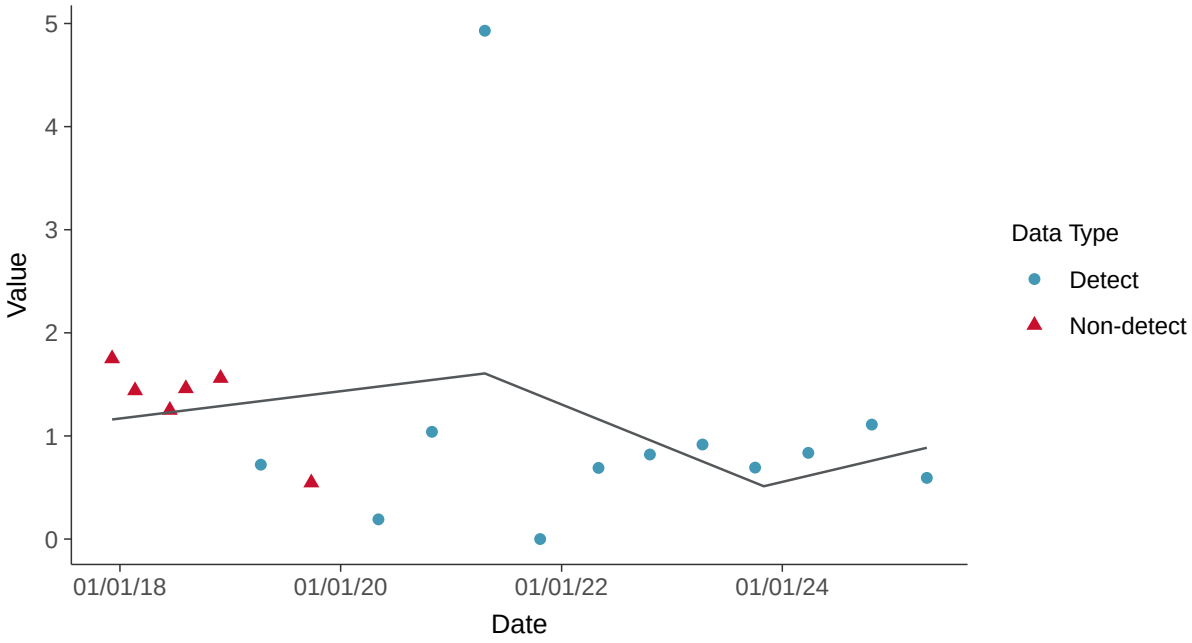
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-17004 (pCi/L)



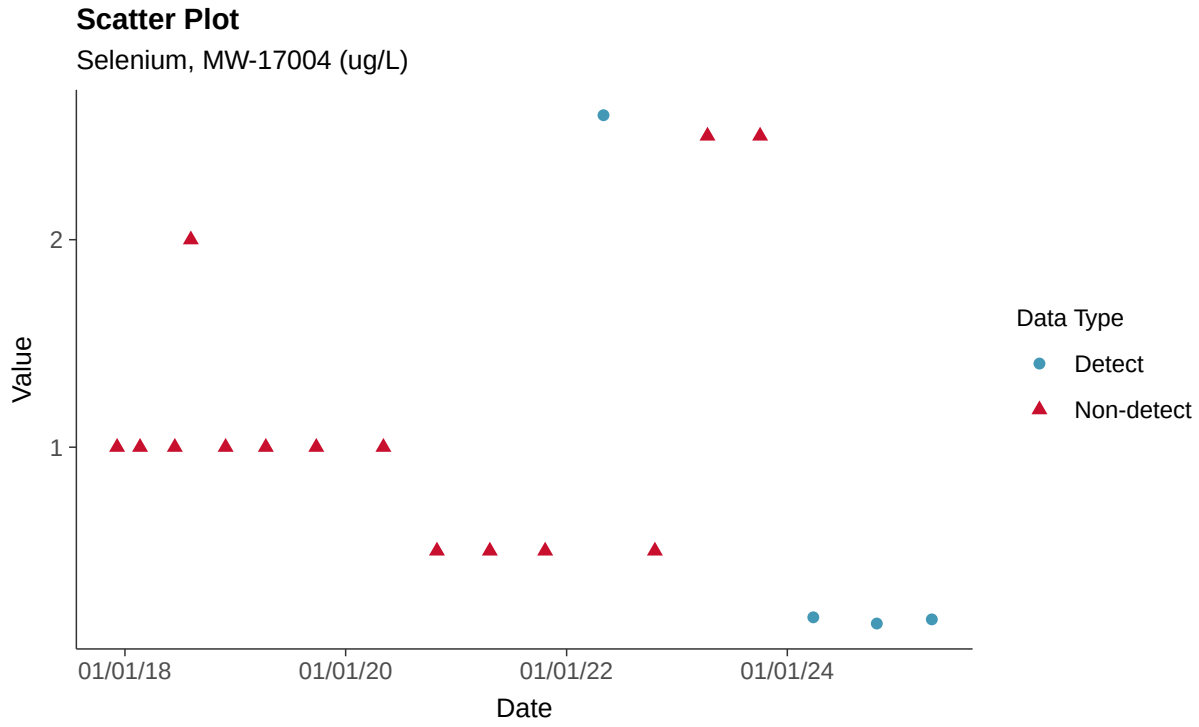
Trend Regression: Piecewise Linear-Linear-Linear

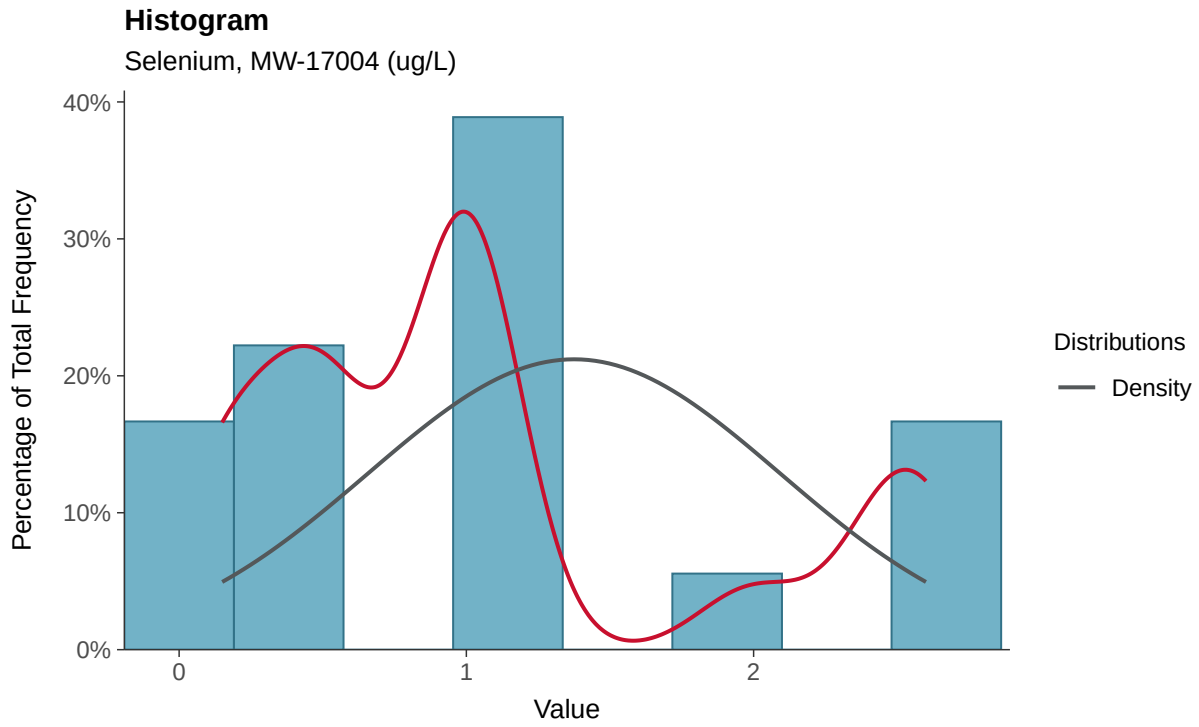
Radium-226+228, MW-17004 (pCi/L)



Appendix IV: Selenium, MW-17004

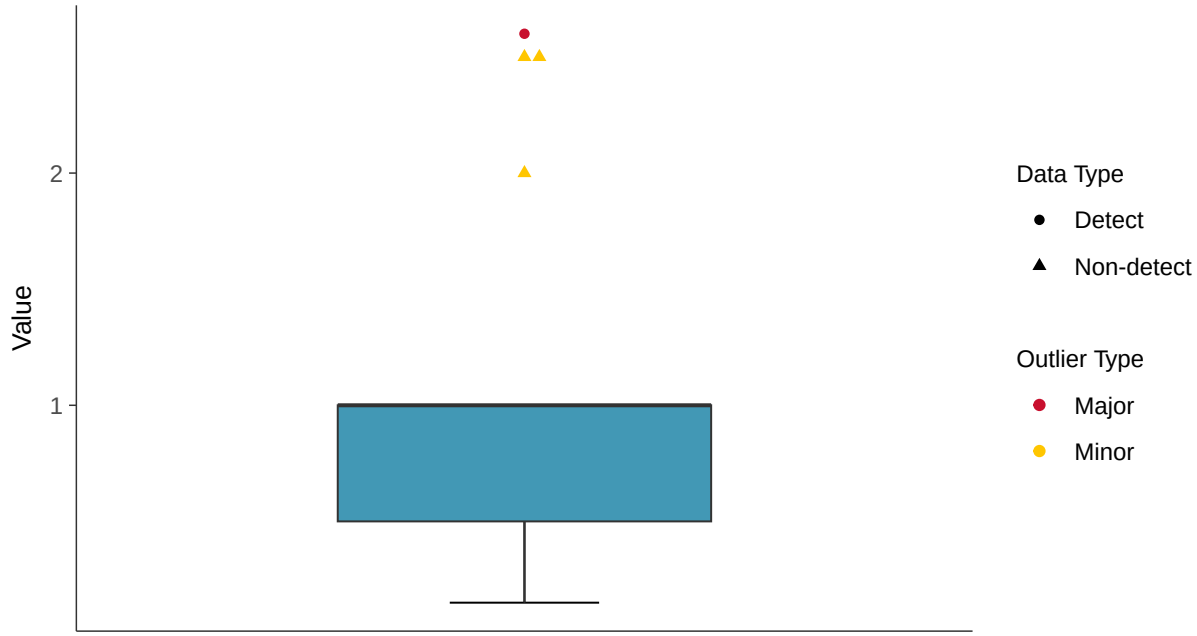
ID: 17_2_127





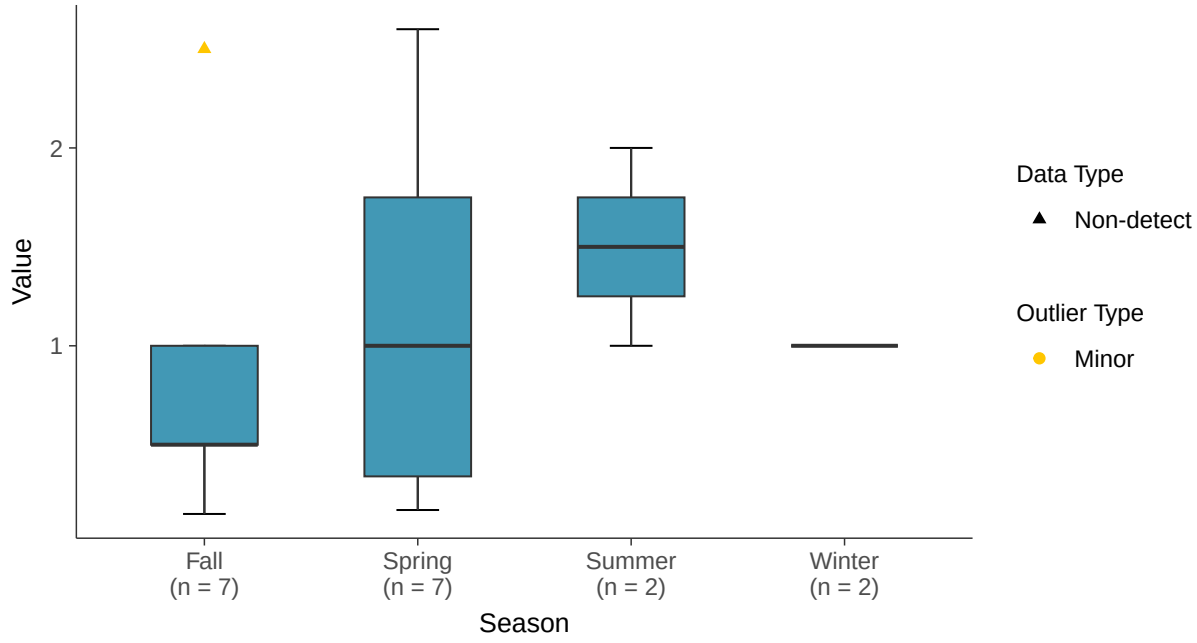
Boxplot

Selenium, MW-17004 (ug/L)



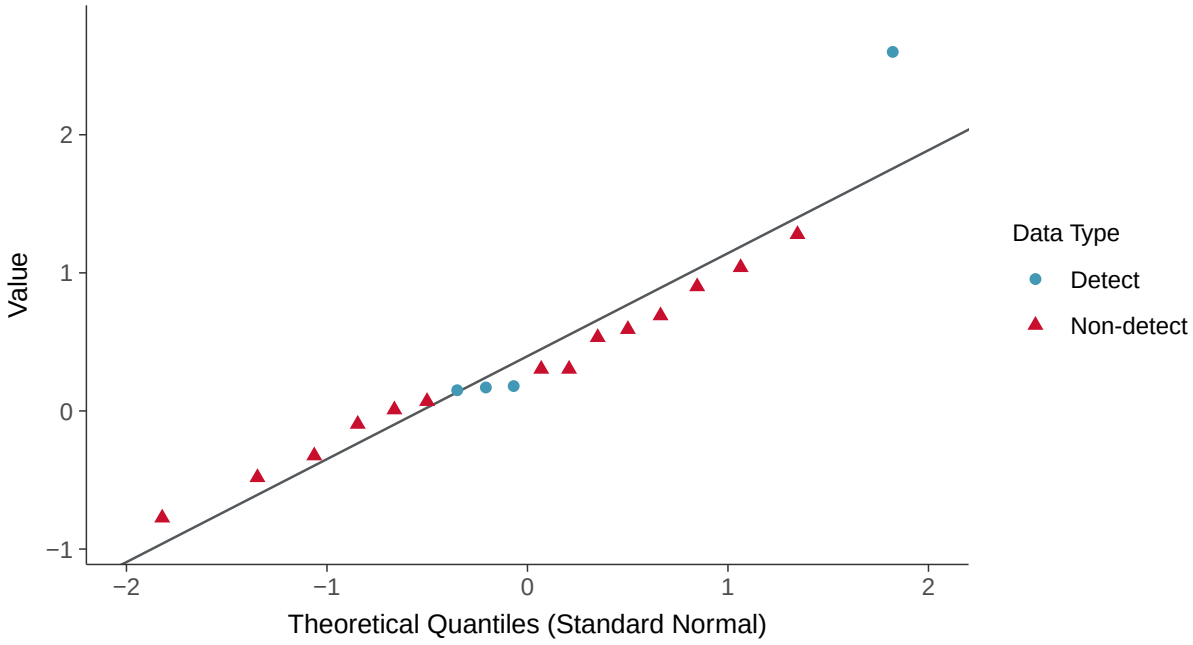
Boxplot by Season

Selenium, MW-17004 (ug/L)



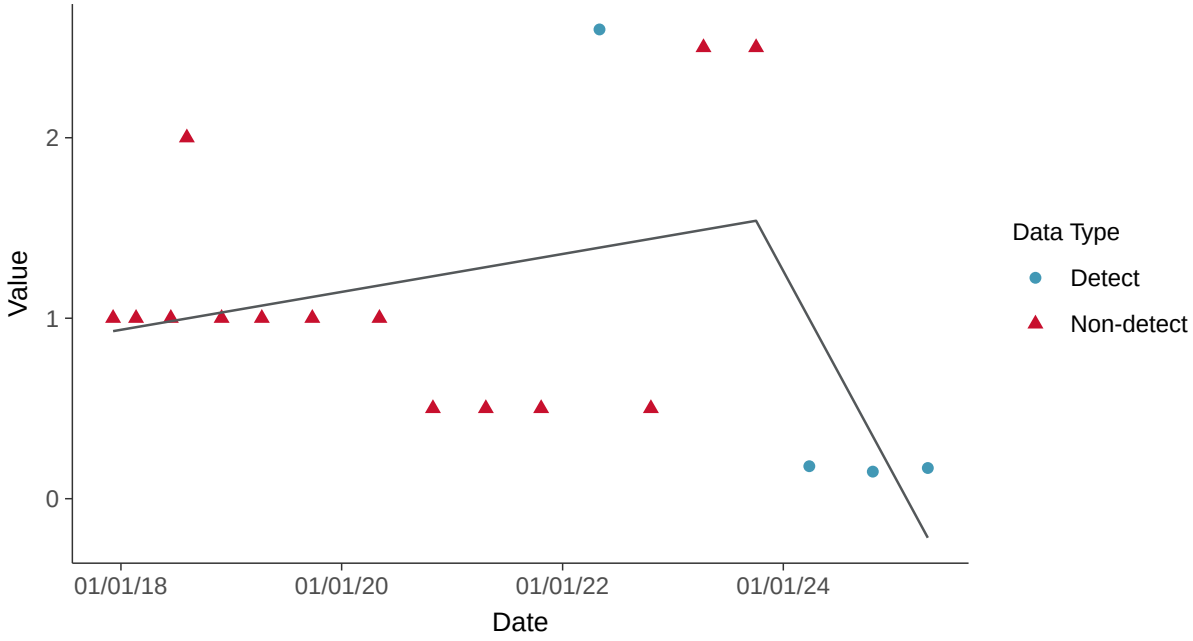
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-17004 (ug/L)



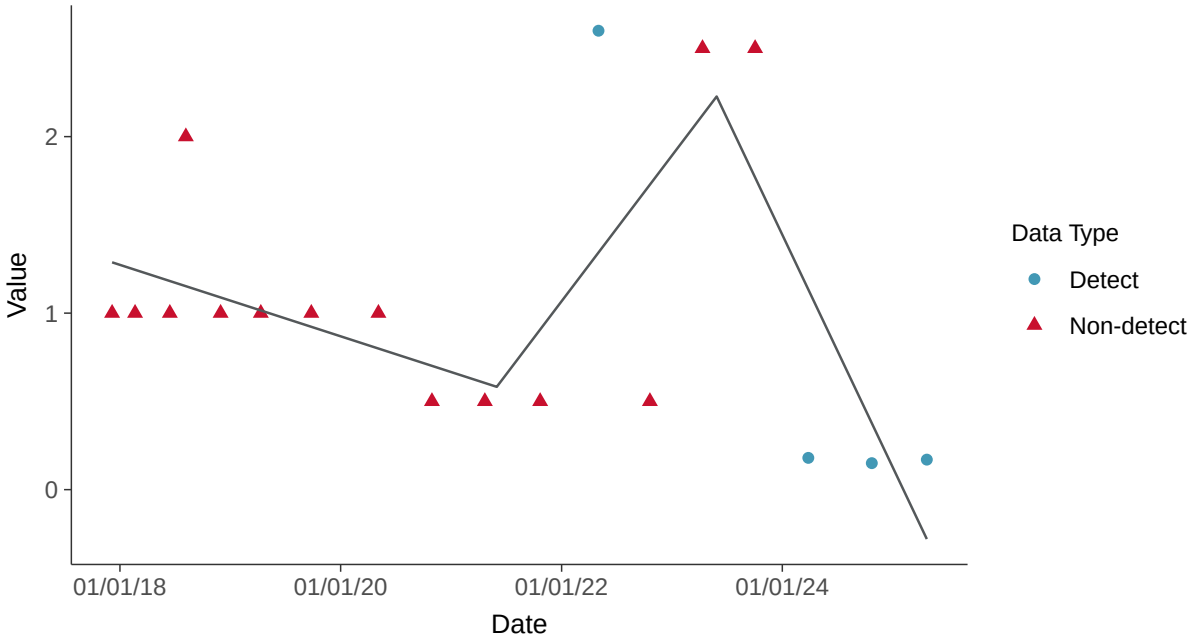
Trend Regression: Piecewise Linear-Linear

Selenium, MW-17004 (ug/L)



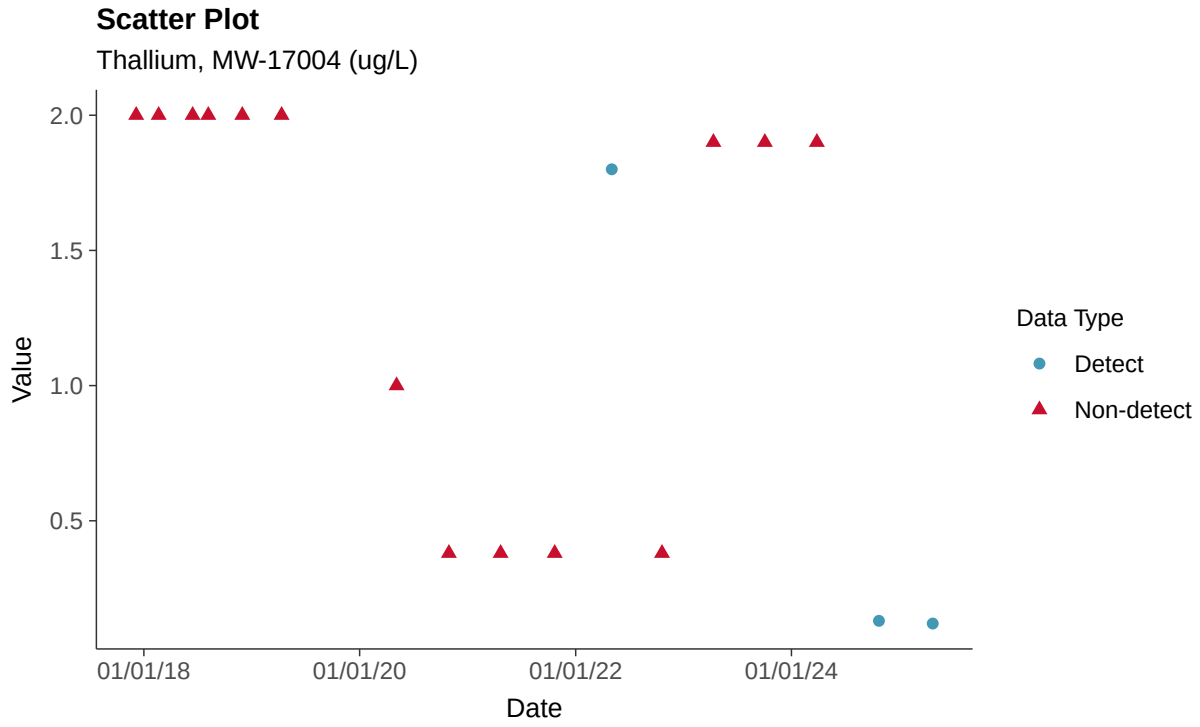
Trend Regression: Piecewise Linear-Linear-Linear

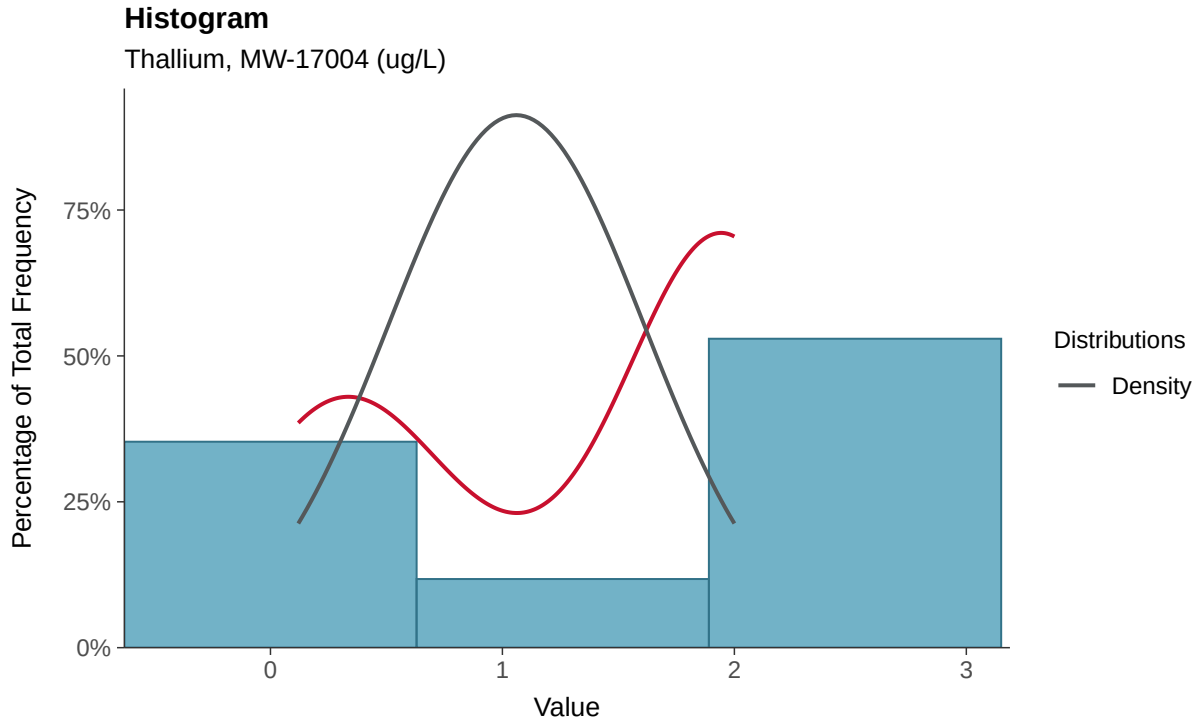
Selenium, MW-17004 (ug/L)



Appendix IV: Thallium, MW-17004

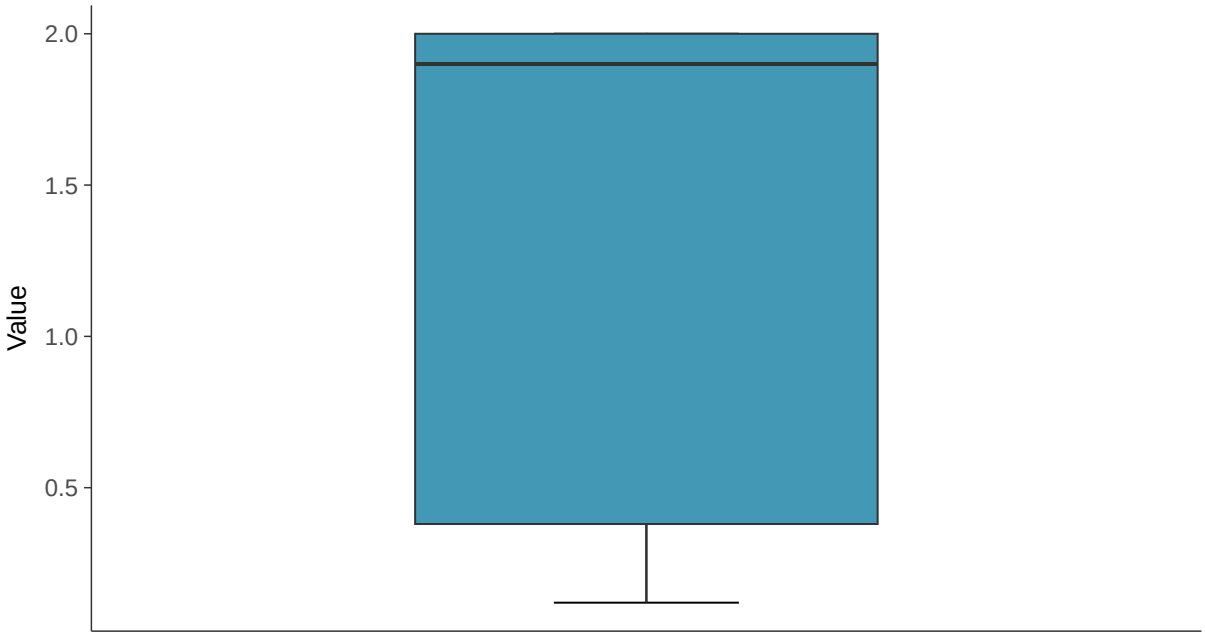
ID: 17_2_131





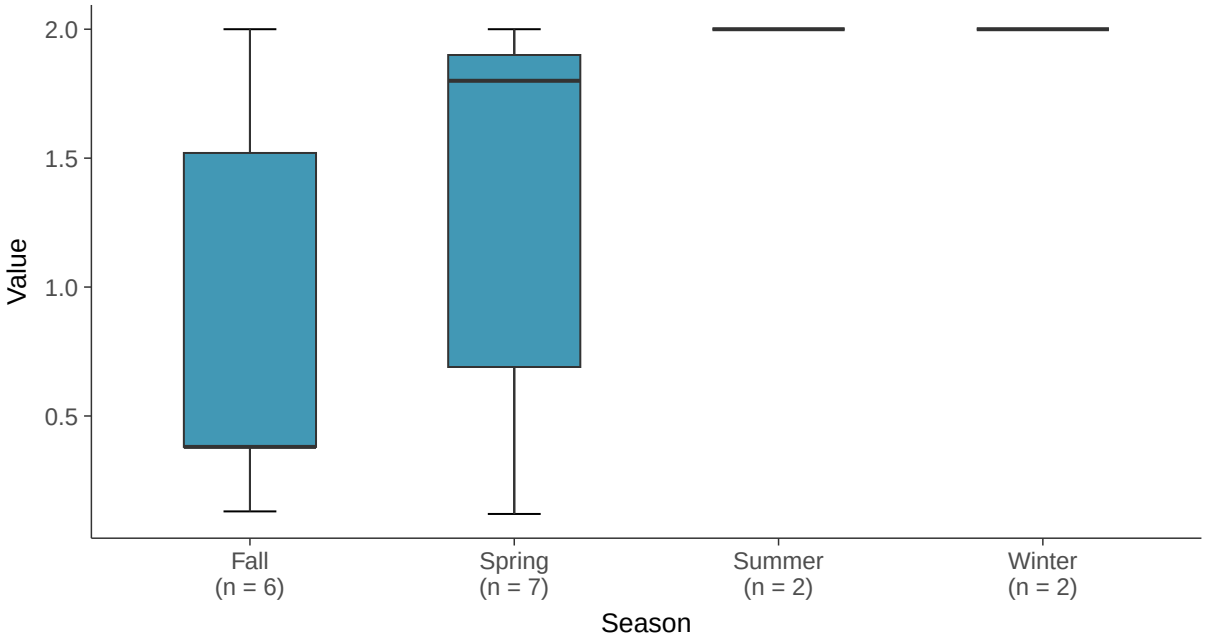
Boxplot

Thallium, MW-17004 (ug/L)



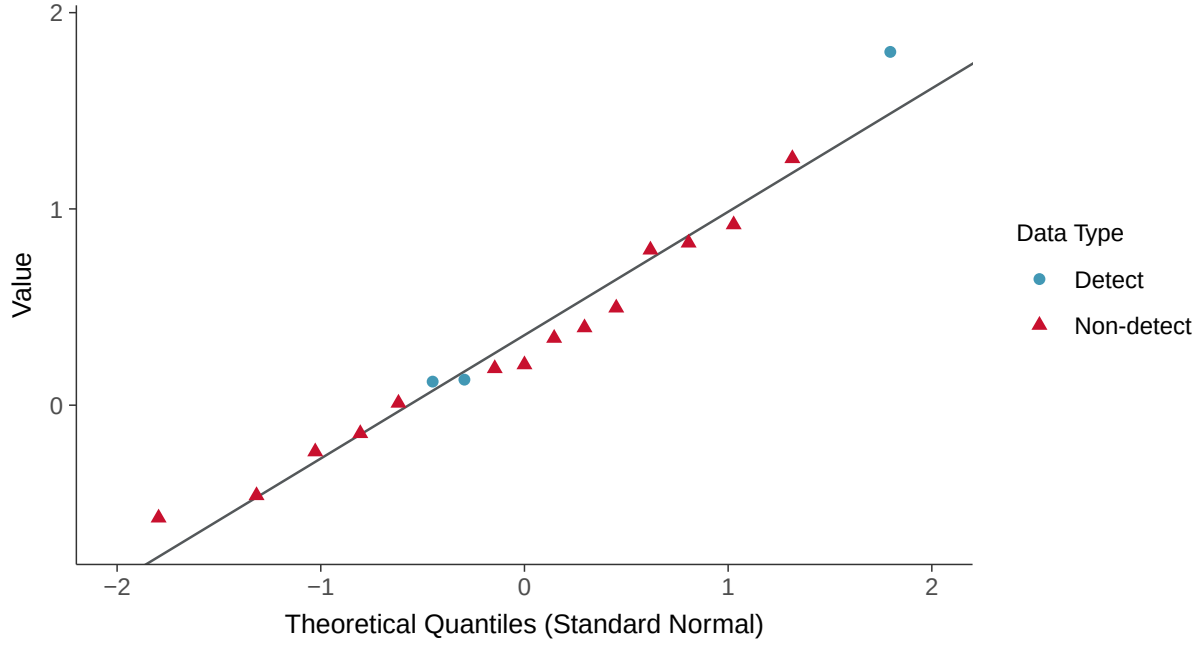
Boxplot by Season

Thallium, MW-17004 (ug/L)



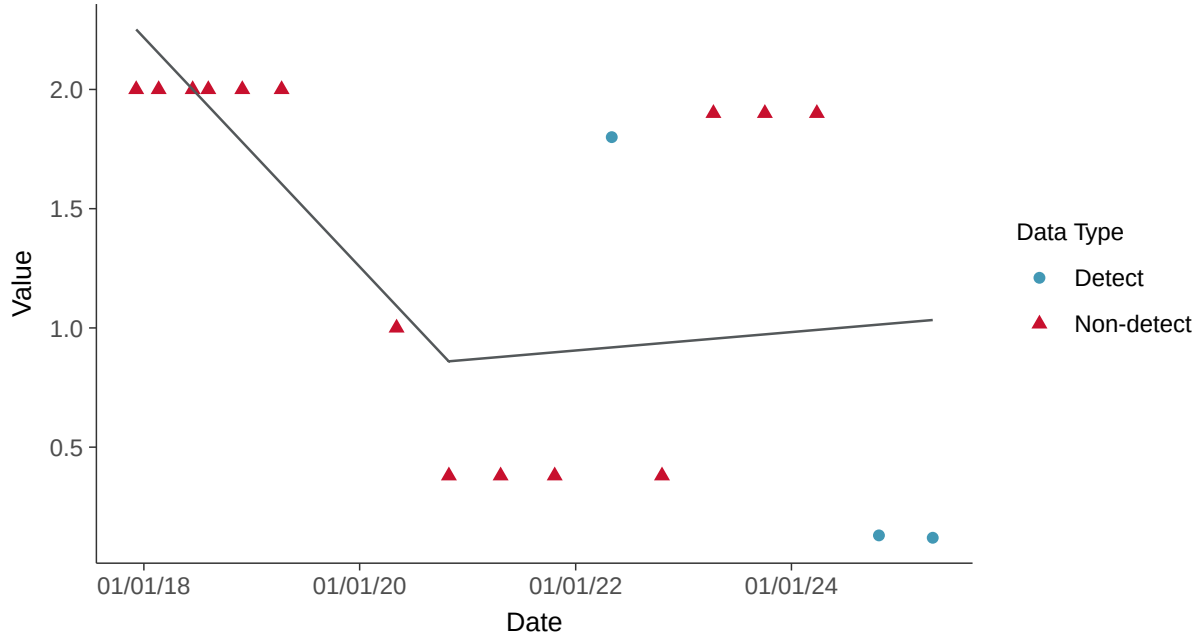
Normal Q-Q plot using ROS Imputed Estimates

Thallium, MW-17004 (ug/L)



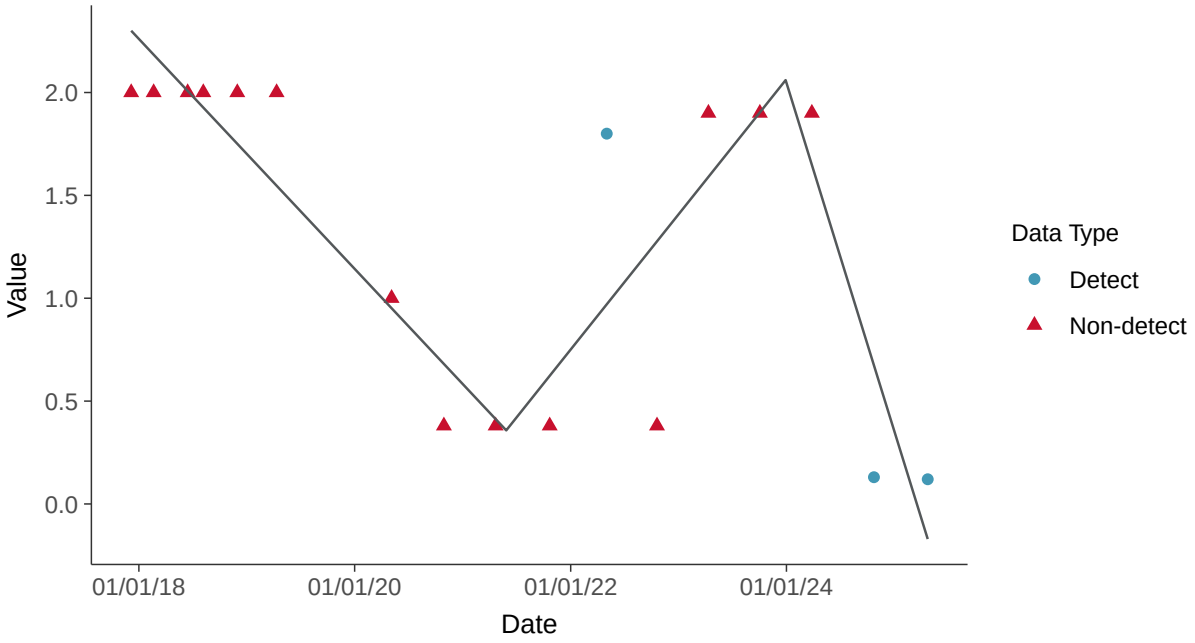
Trend Regression: Piecewise Linear-Linear

Thallium, MW-17004 (ug/L)



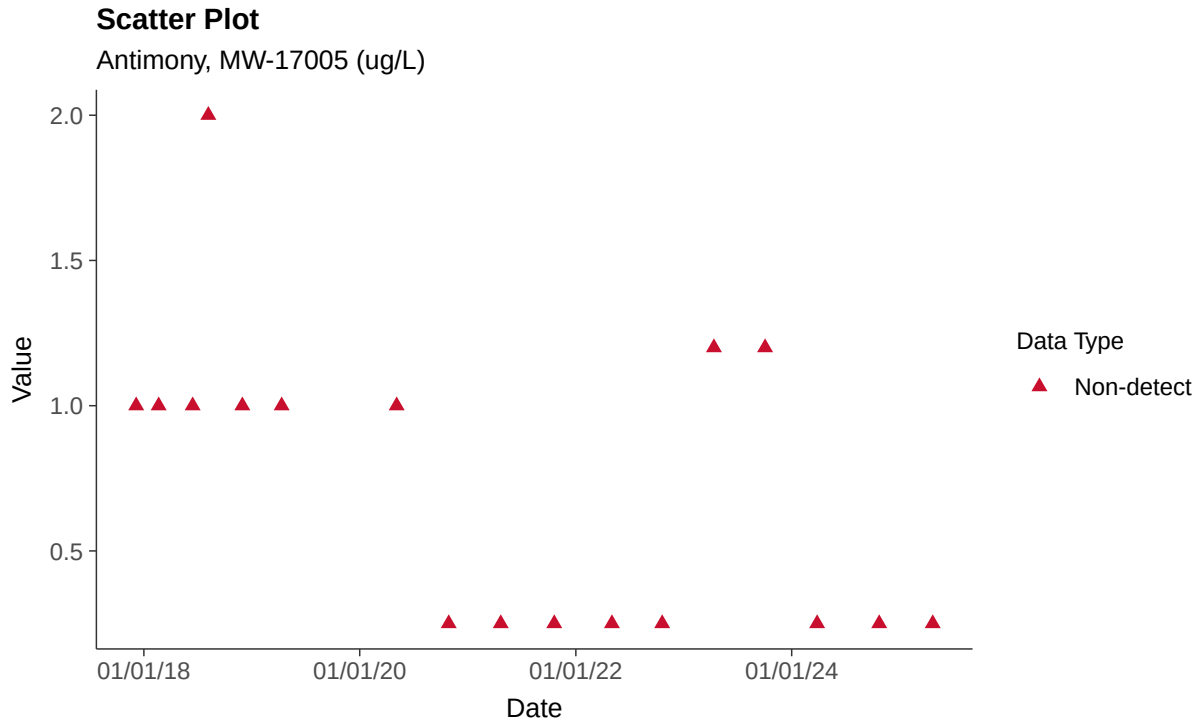
Trend Regression: Piecewise Linear-Linear-Linear

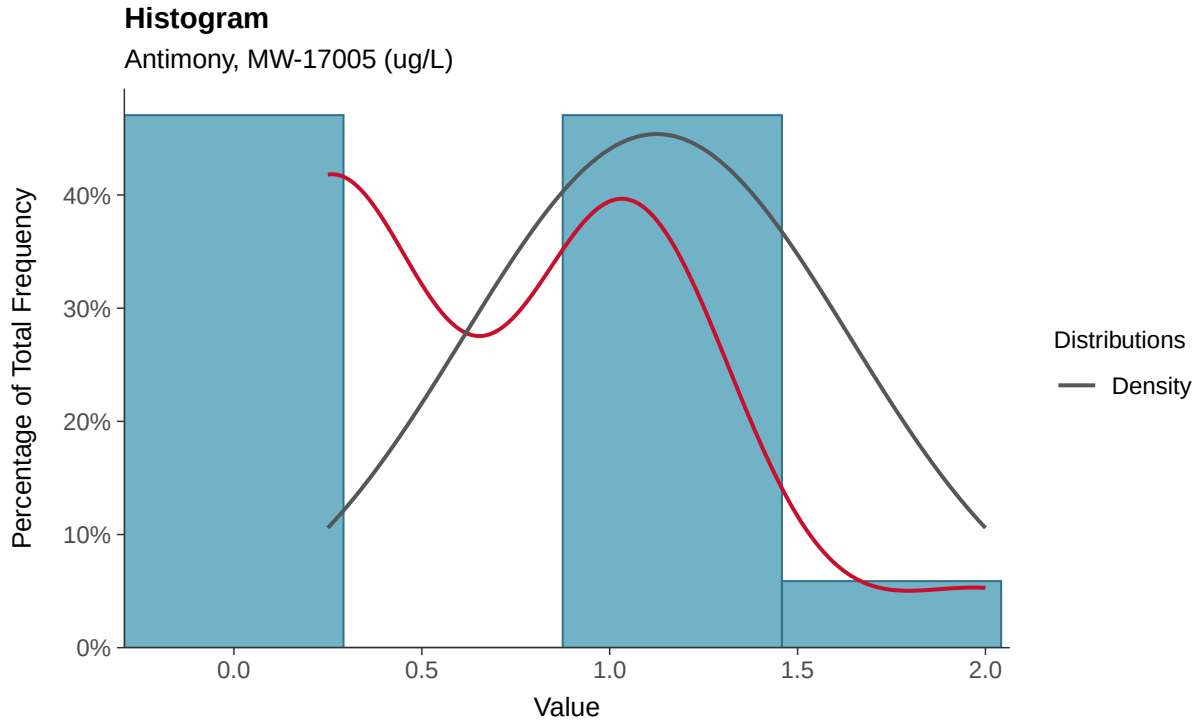
Thallium, MW-17004 (ug/L)



Appendix IV: Antimony, MW-17005

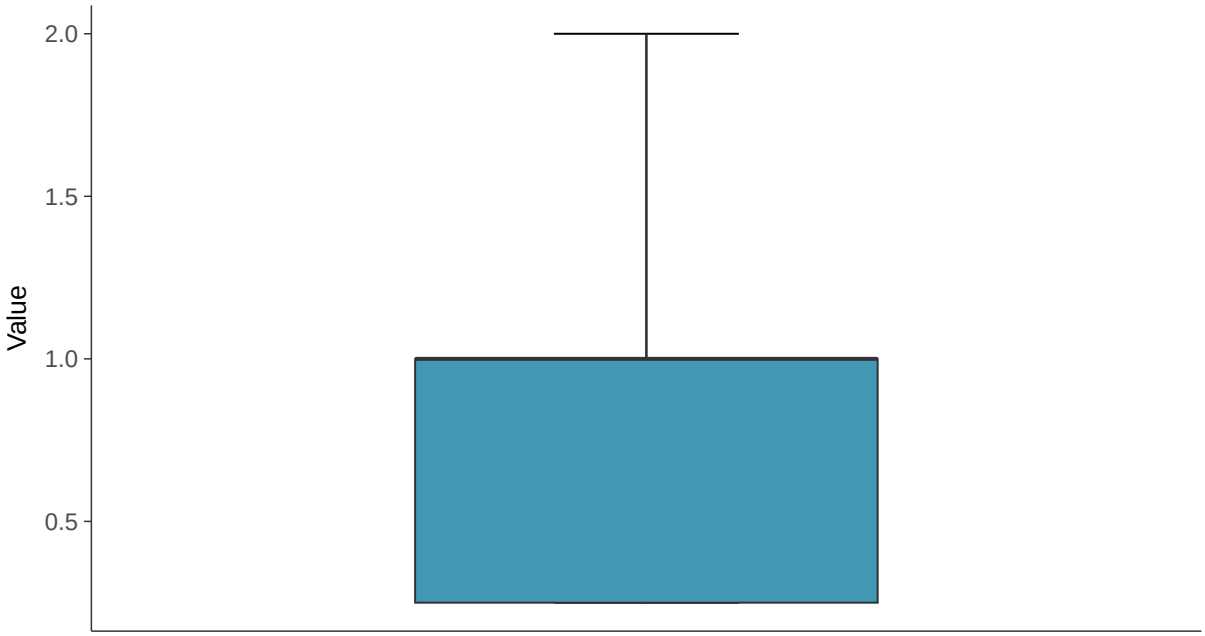
ID: 18_2_101





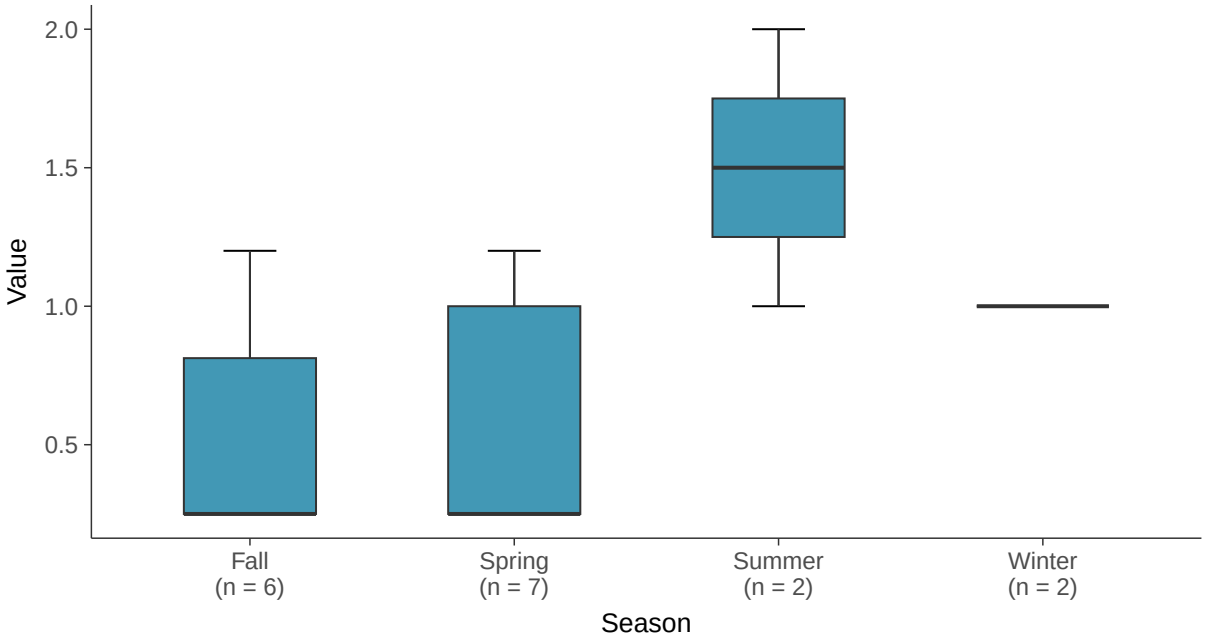
Boxplot

Antimony, MW-17005 (ug/L)



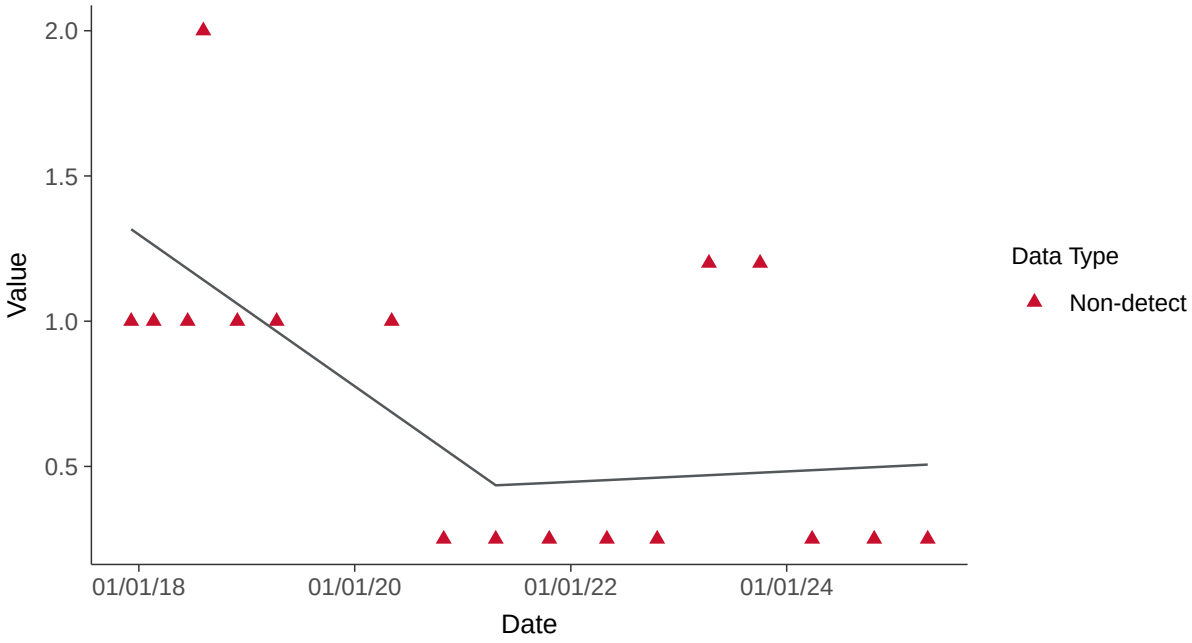
Boxplot by Season

Antimony, MW-17005 (ug/L)



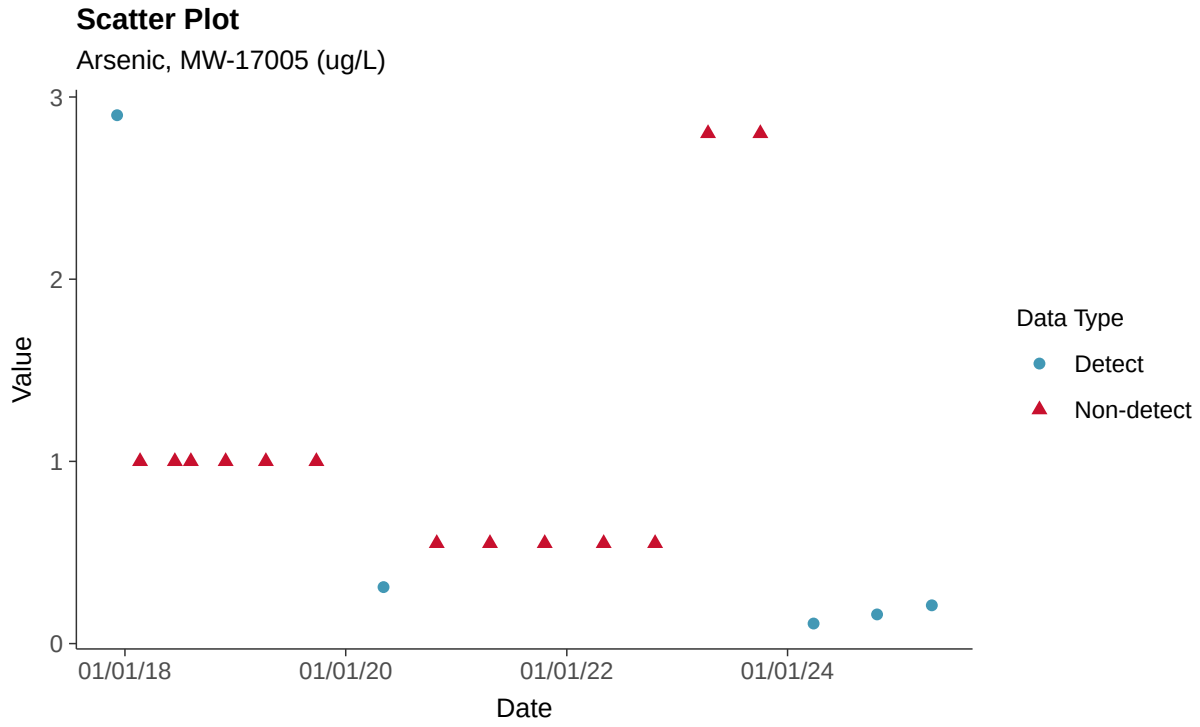
Trend Regression: Piecewise Linear-Linear

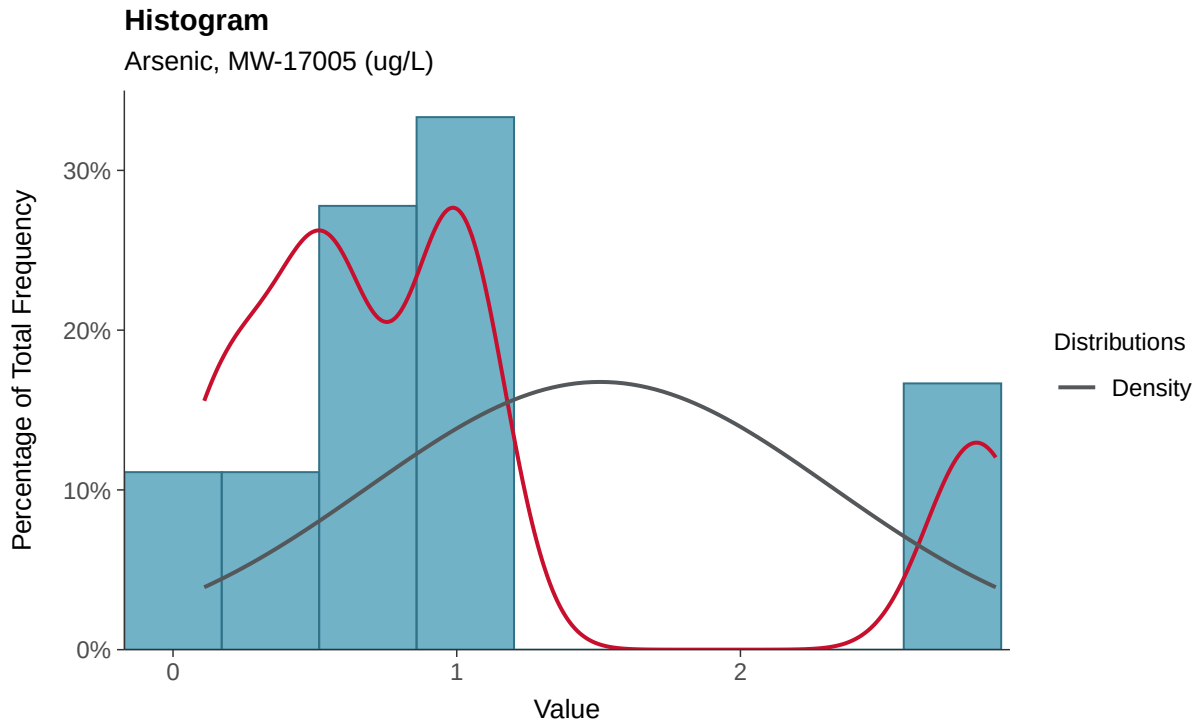
Antimony, MW-17005 (ug/L)



Appendix IV: Arsenic, MW-17005

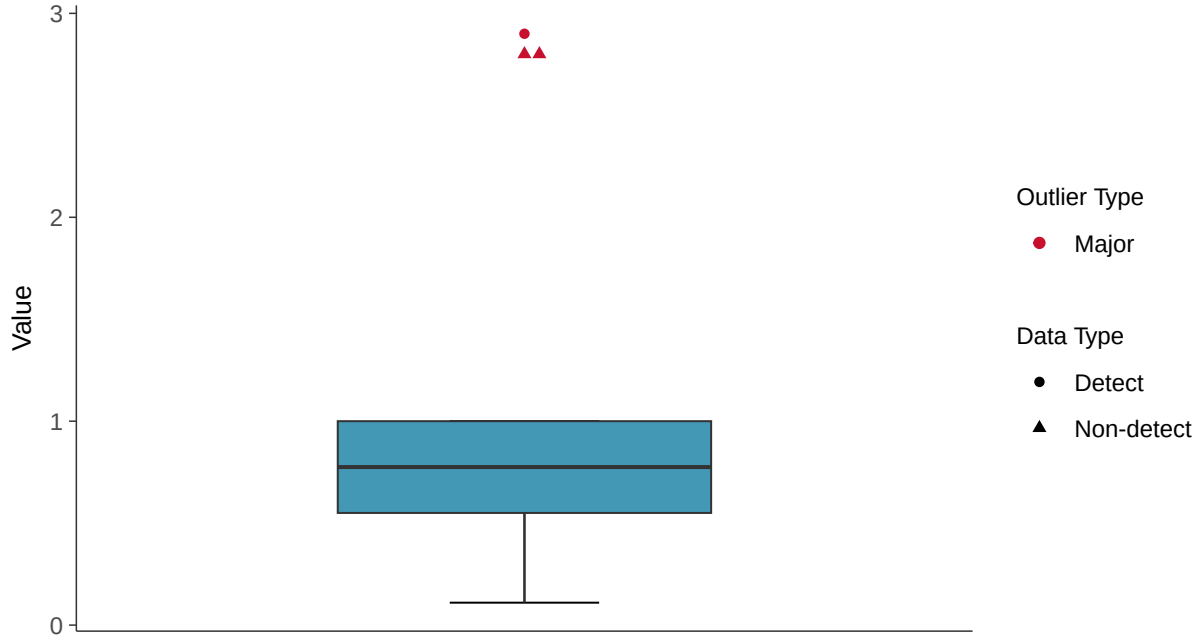
ID: 18_2_102





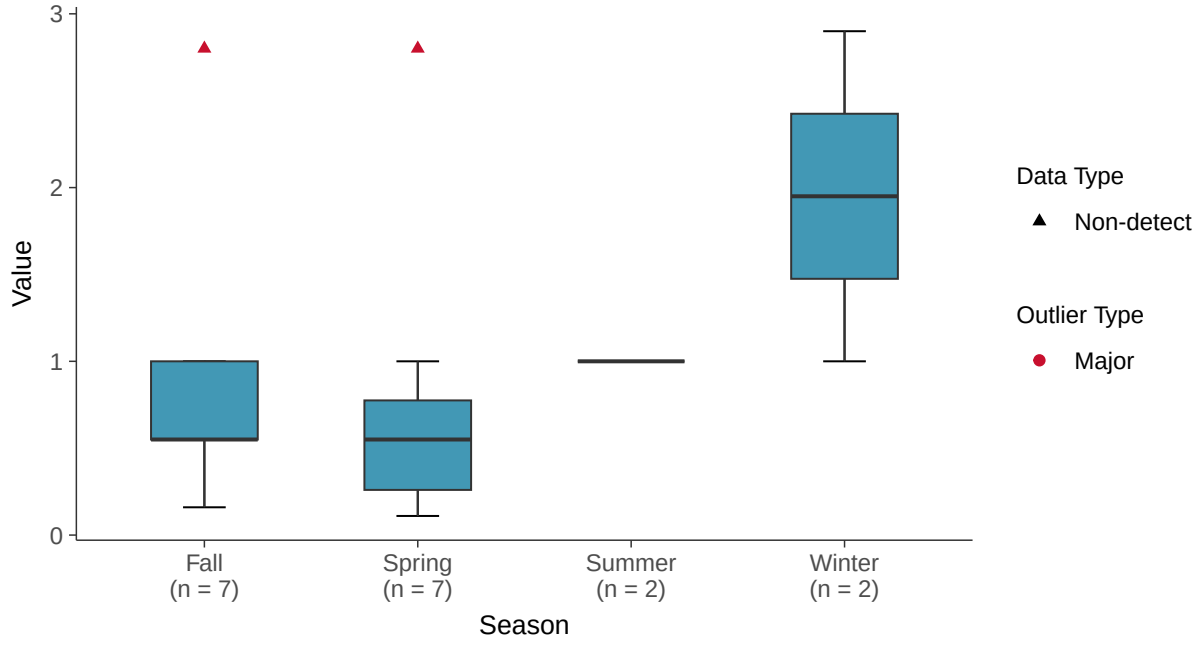
Boxplot

Arsenic, MW-17005 (ug/L)



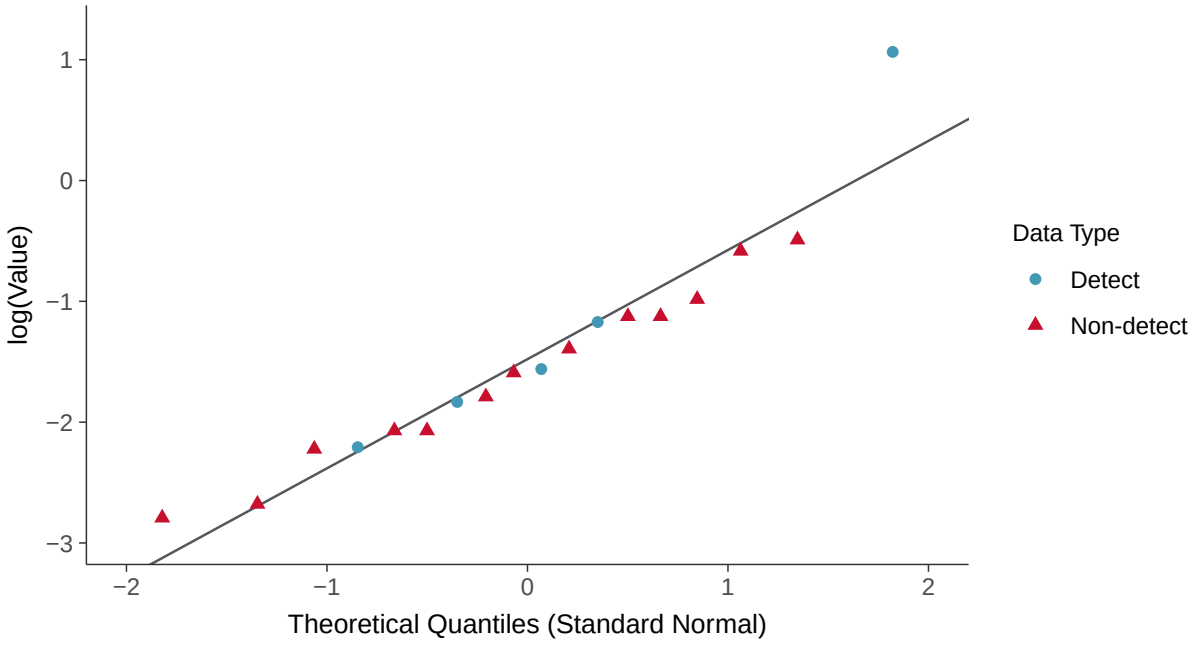
Boxplot by Season

Arsenic, MW-17005 (ug/L)



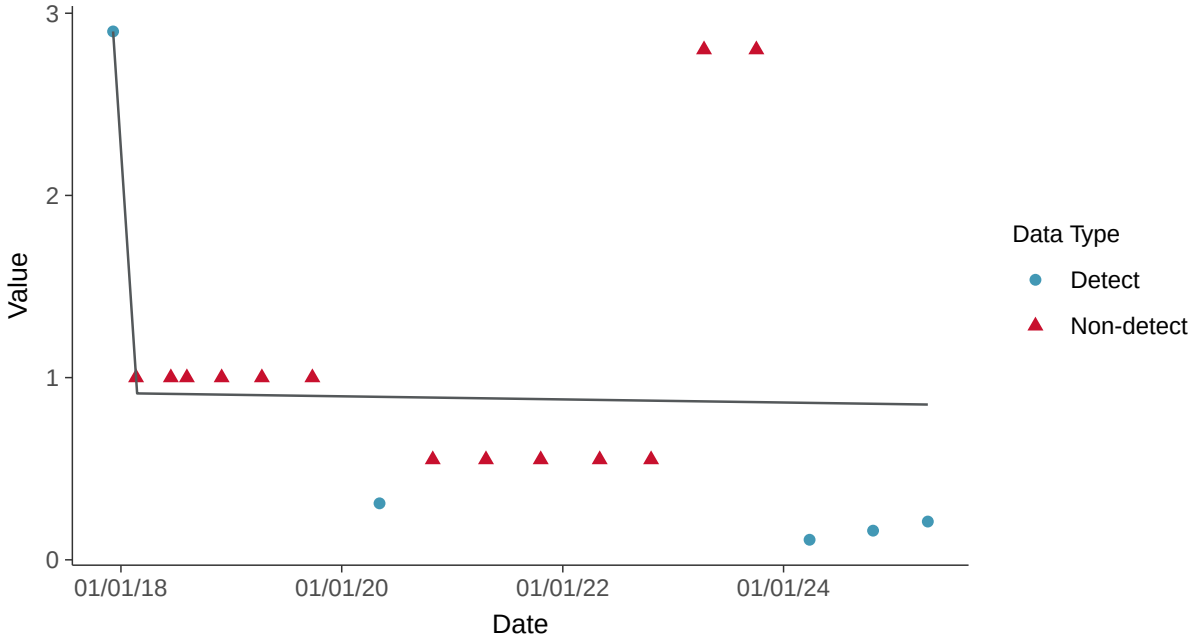
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-17005 (ug/L)



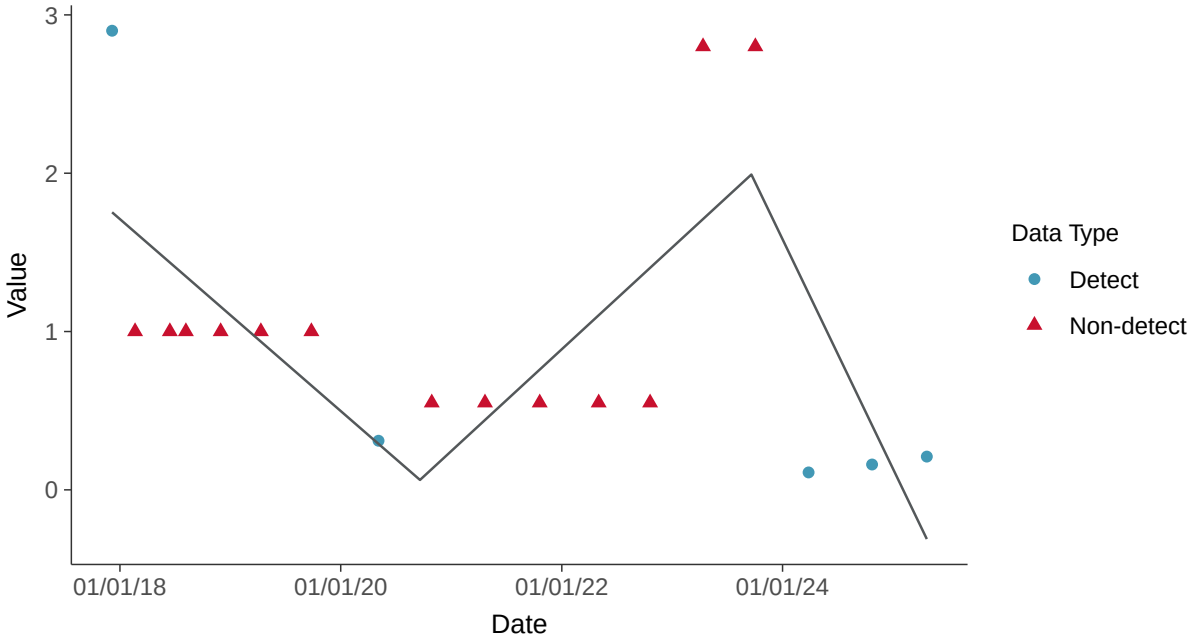
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-17005 (ug/L)



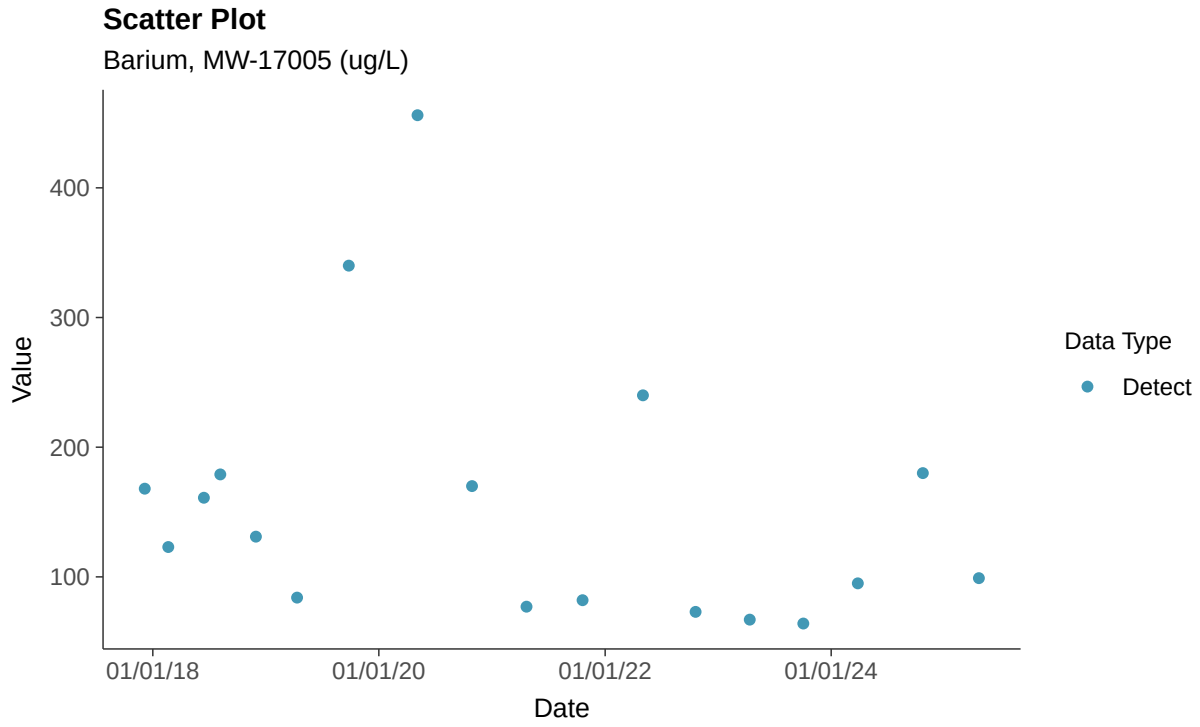
Trend Regression: Piecewise Linear-Linear-Linear

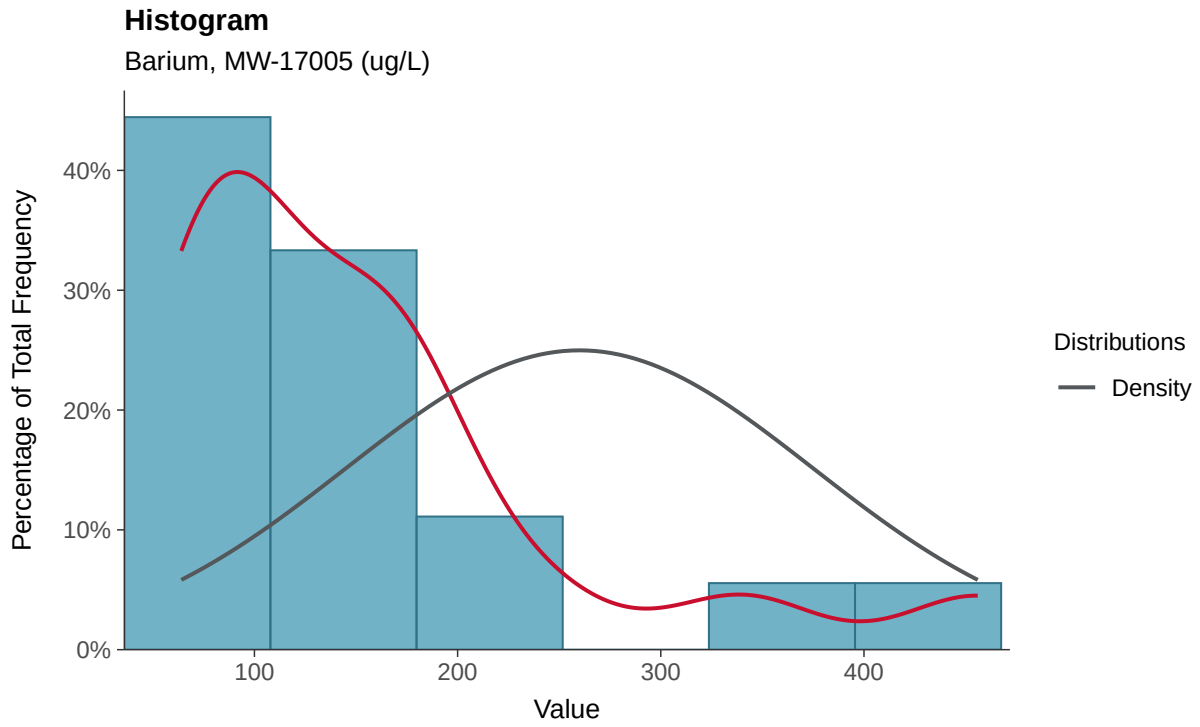
Arsenic, MW-17005 (ug/L)



Appendix IV: Barium, MW-17005

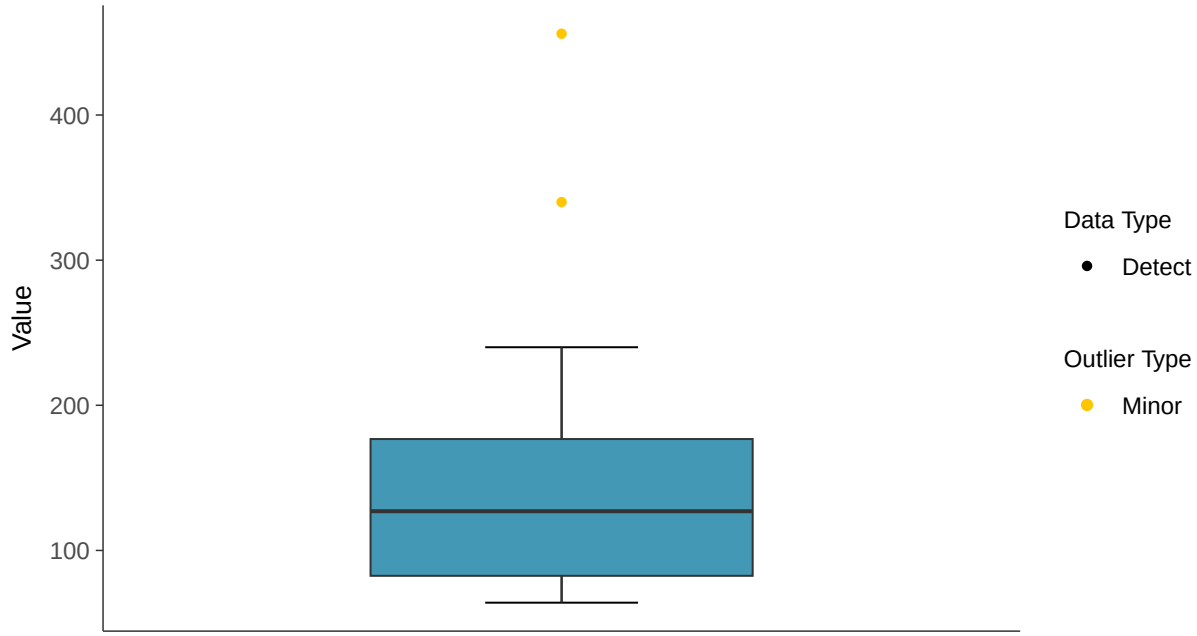
ID: 18_2_103





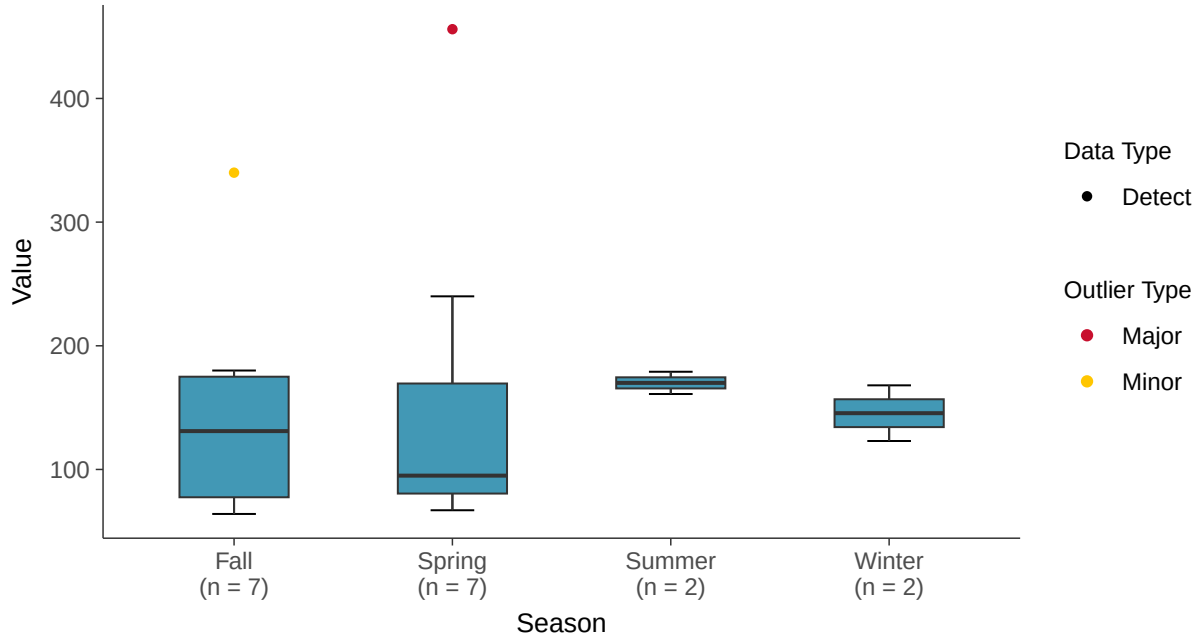
Boxplot

Barium, MW-17005 (ug/L)



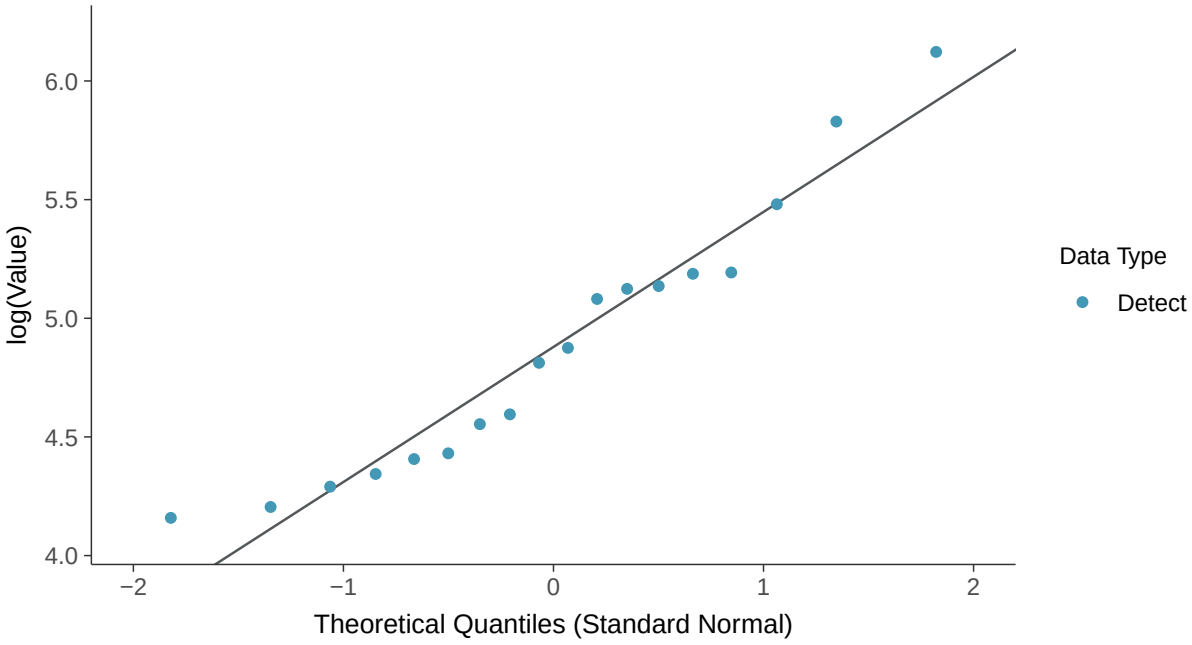
Boxplot by Season

Barium, MW-17005 (ug/L)



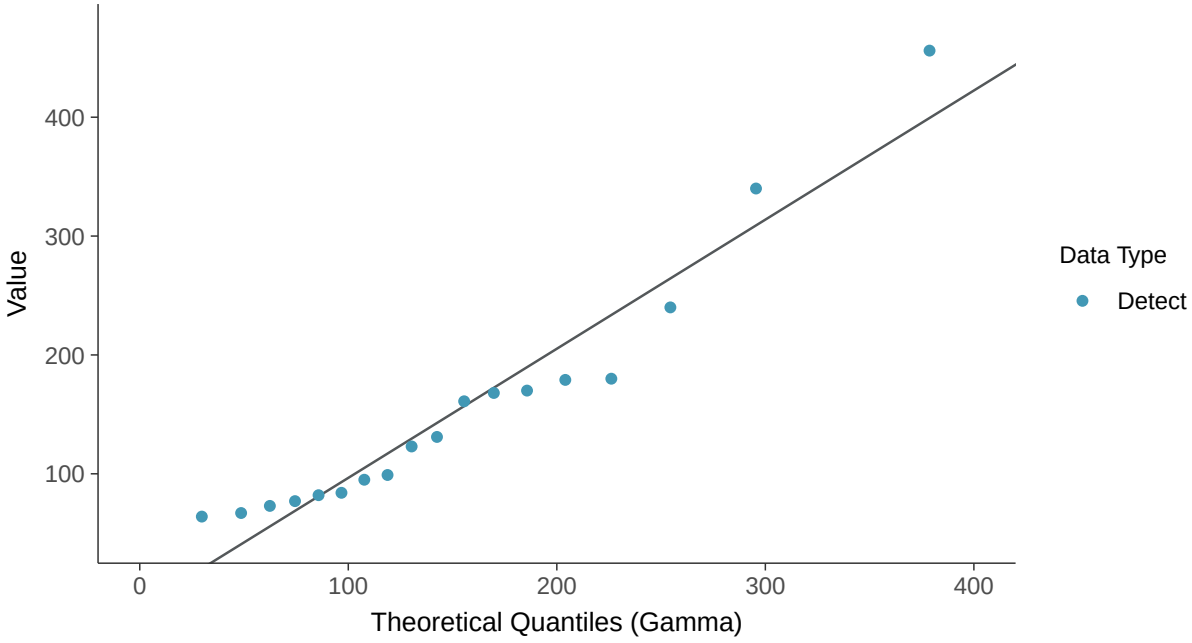
Lognormal Q-Q plot

Barium, MW-17005 (ug/L)



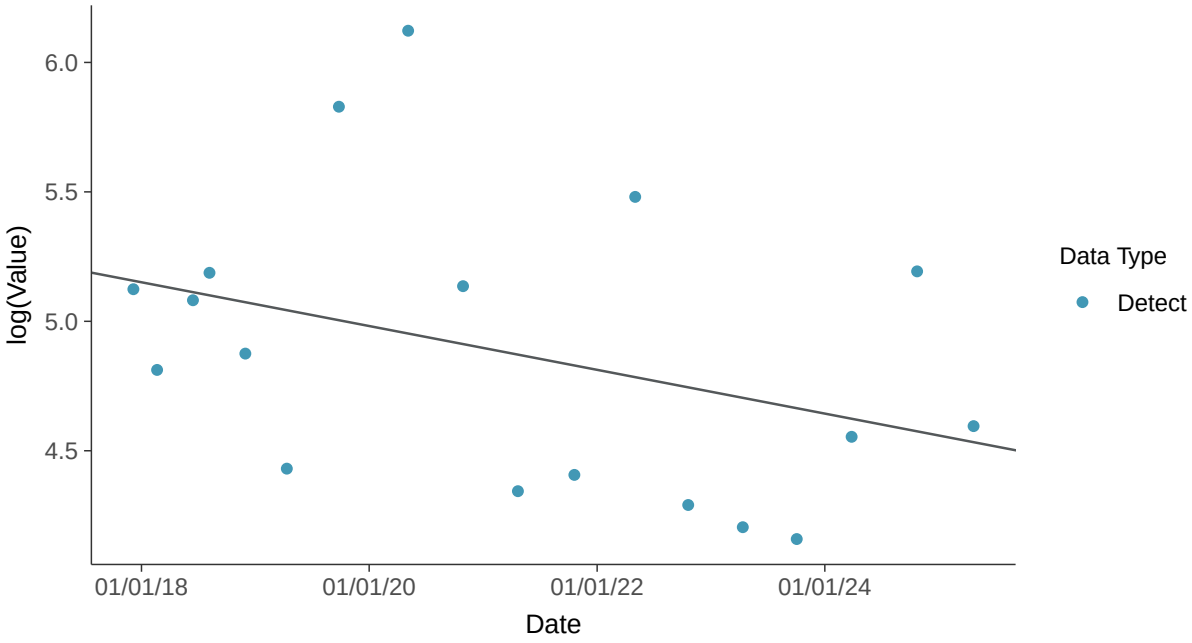
Gamma Q-Q plot

Barium, MW-17005 (ug/L)



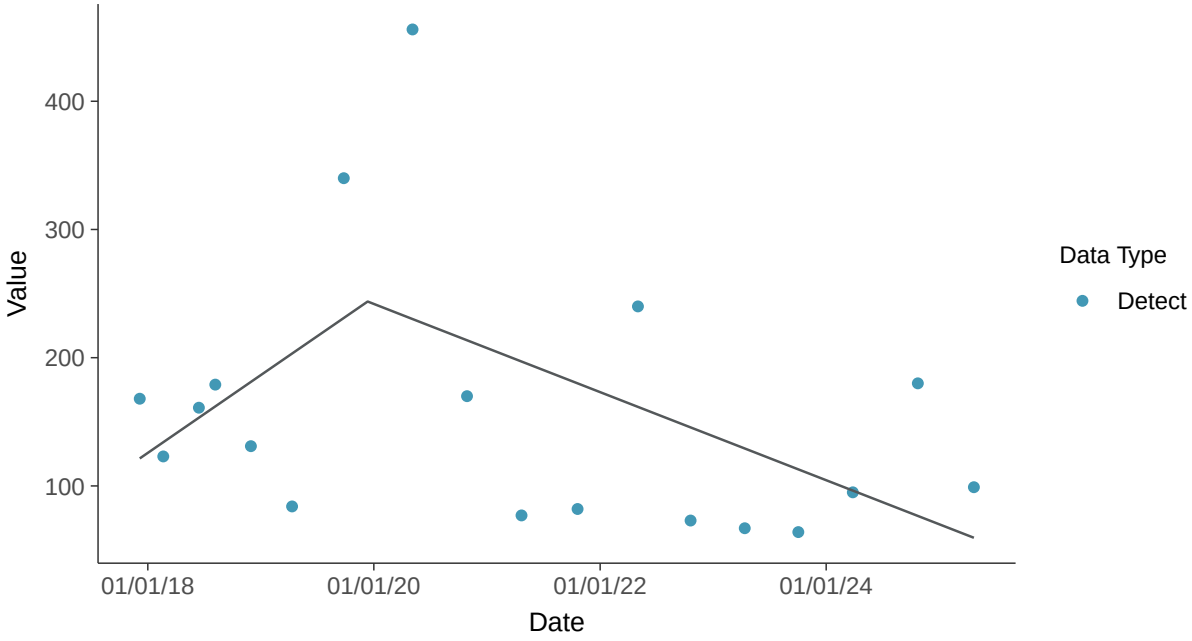
Trend Regression: Lognormal MLE

Barium, MW-17005 (ug/L)



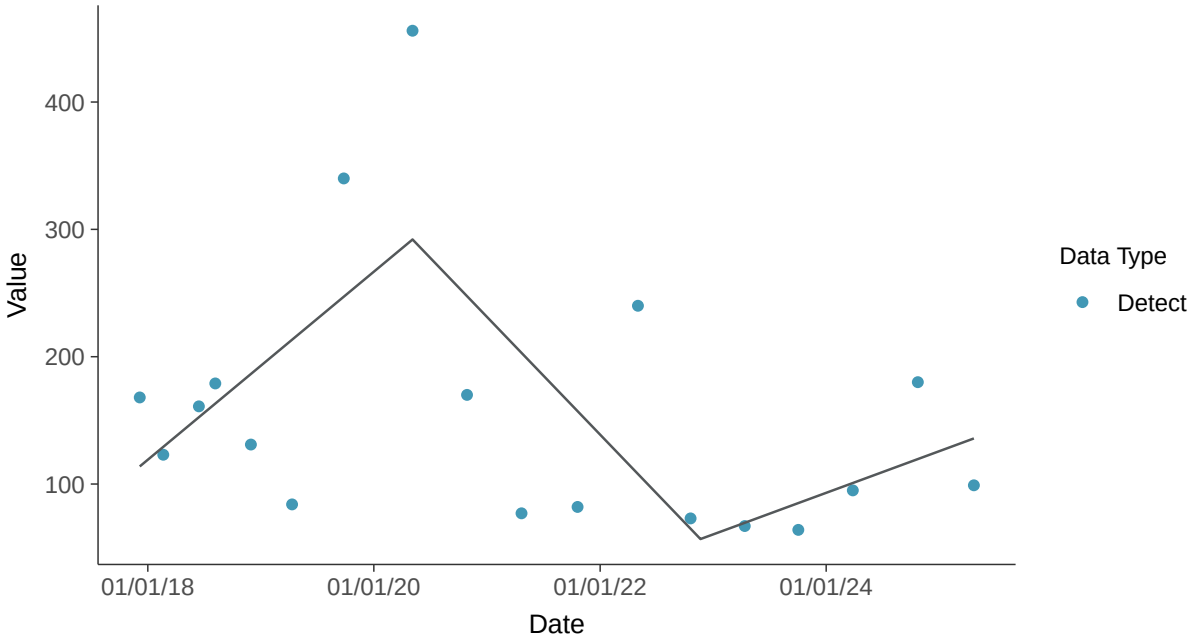
Trend Regression: Piecewise Linear-Linear

Barium, MW-17005 (ug/L)



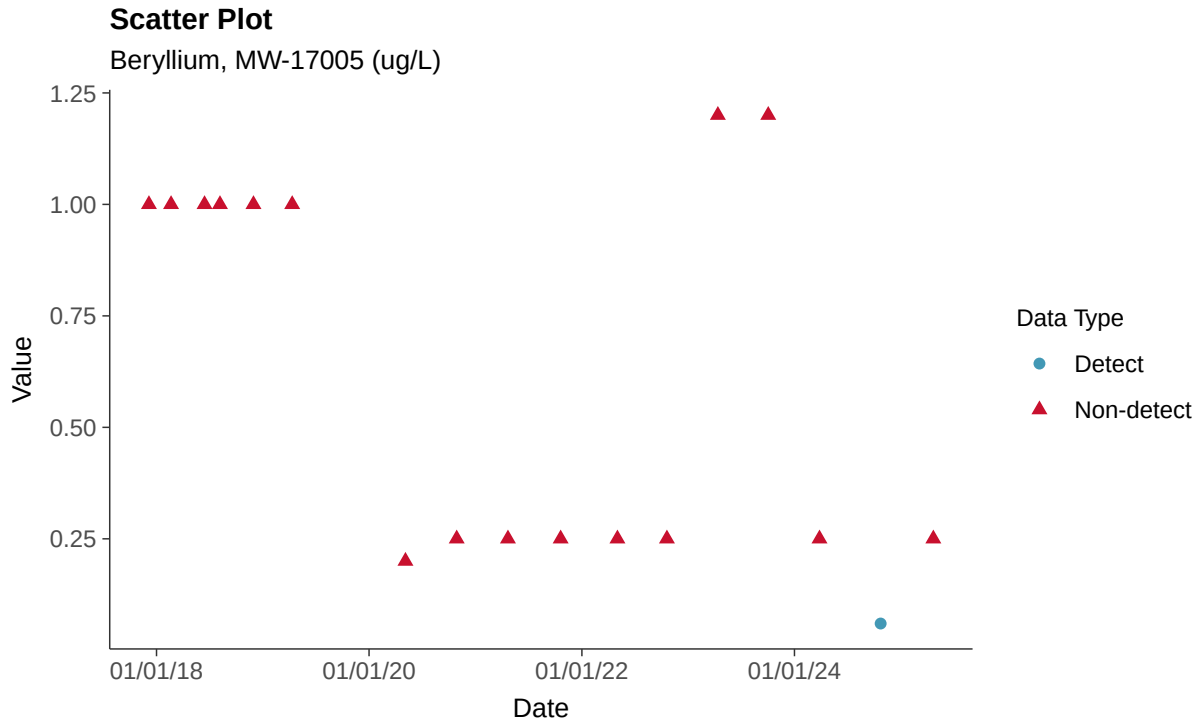
Trend Regression: Piecewise Linear-Linear-Linear

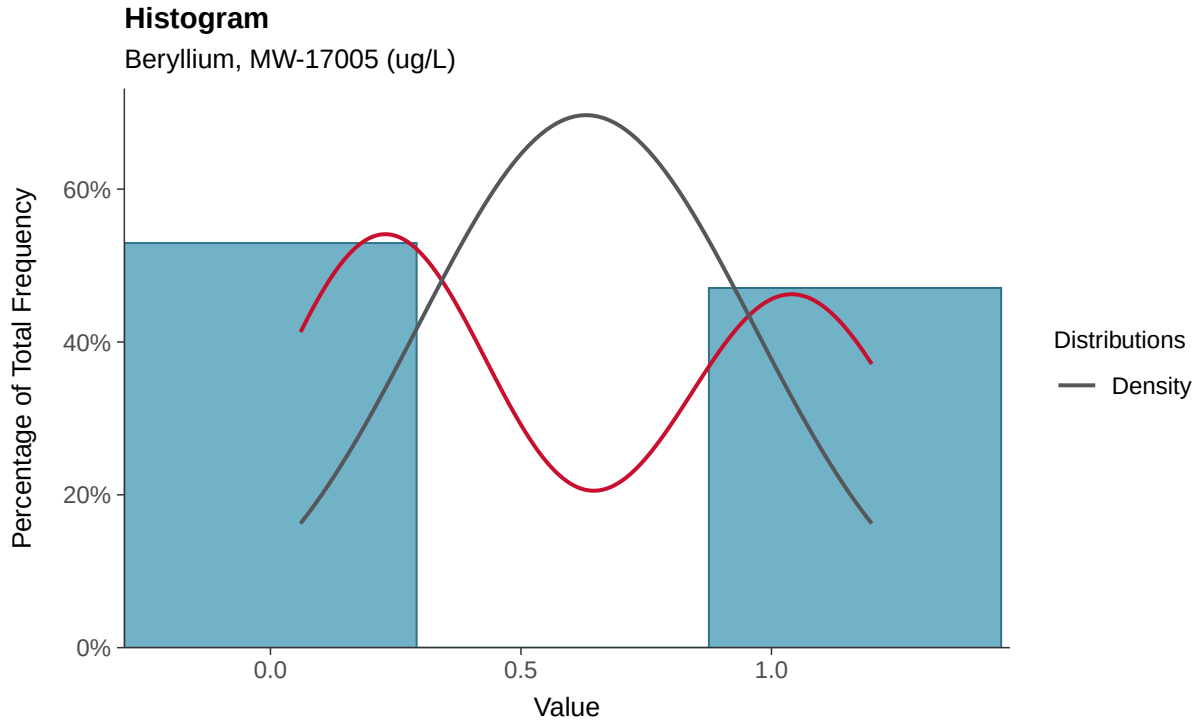
Barium, MW-17005 (ug/L)



Appendix IV: Beryllium, MW-17005

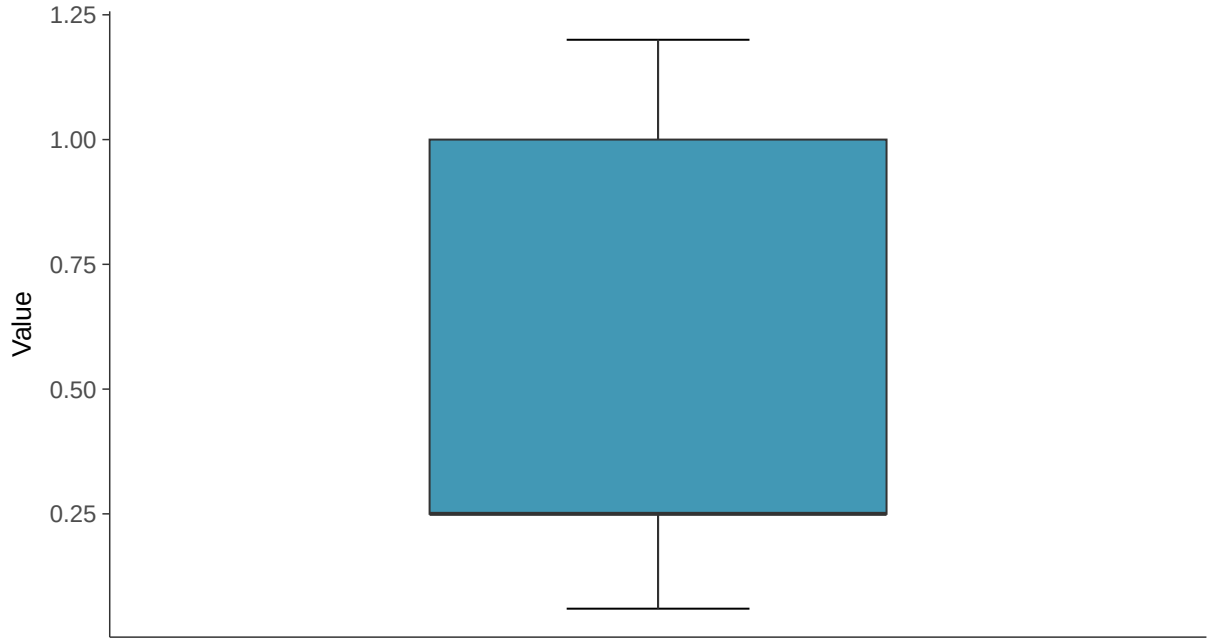
ID: 18_2_104





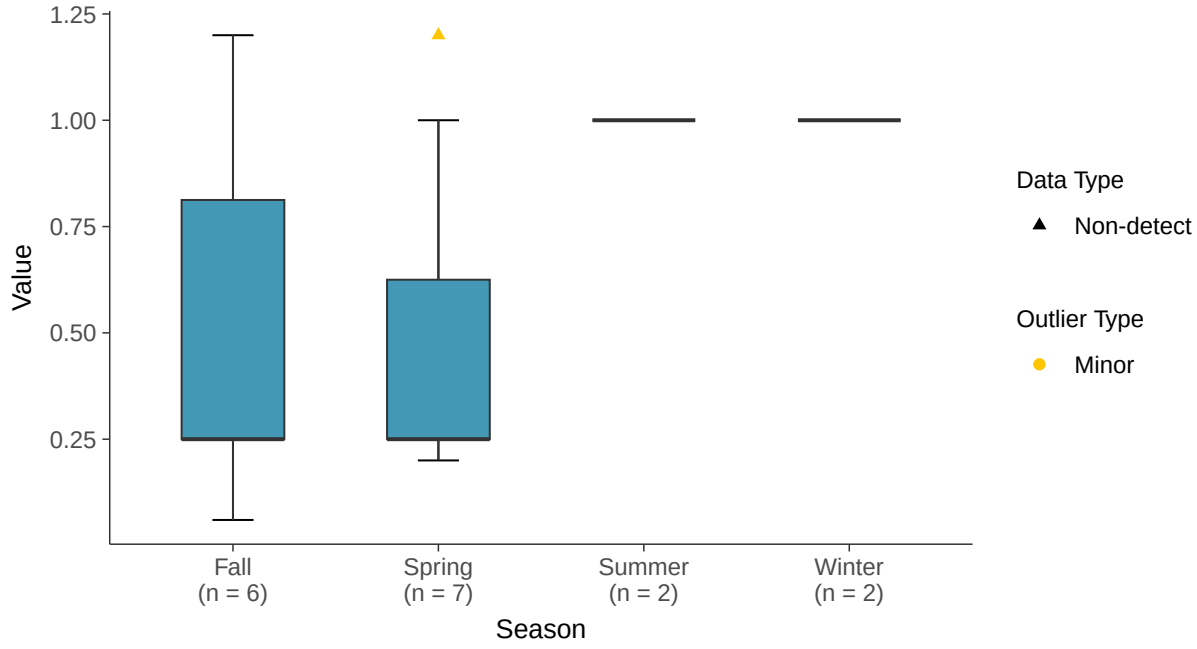
Boxplot

Beryllium, MW-17005 (ug/L)



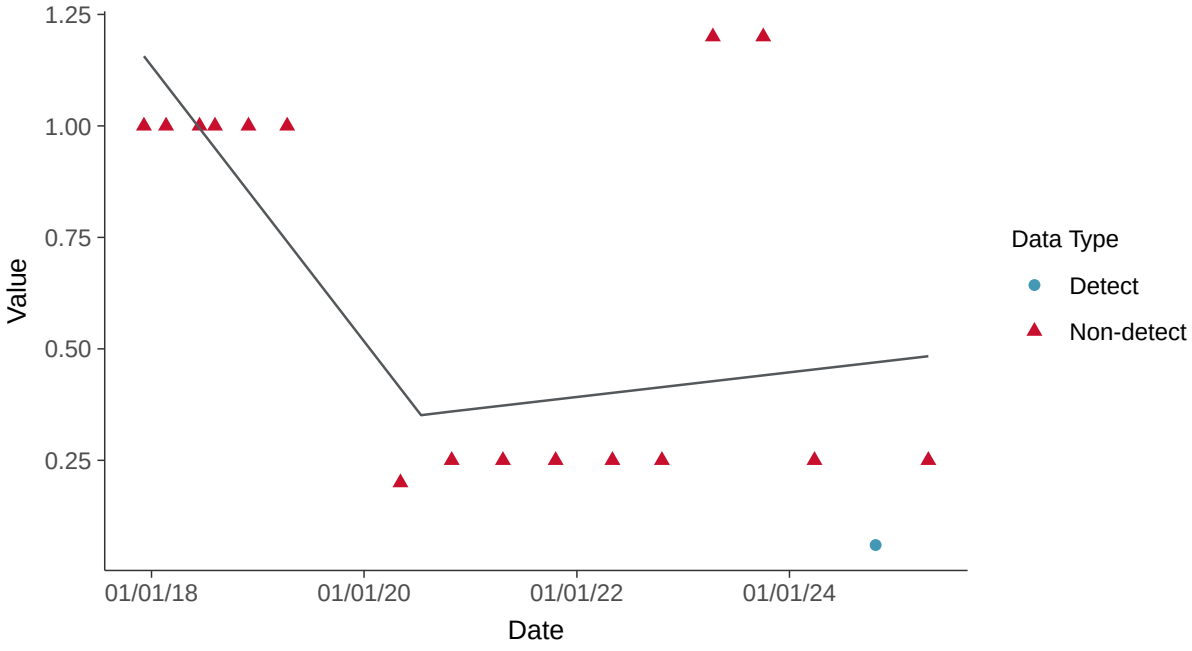
Boxplot by Season

Beryllium, MW-17005 (ug/L)



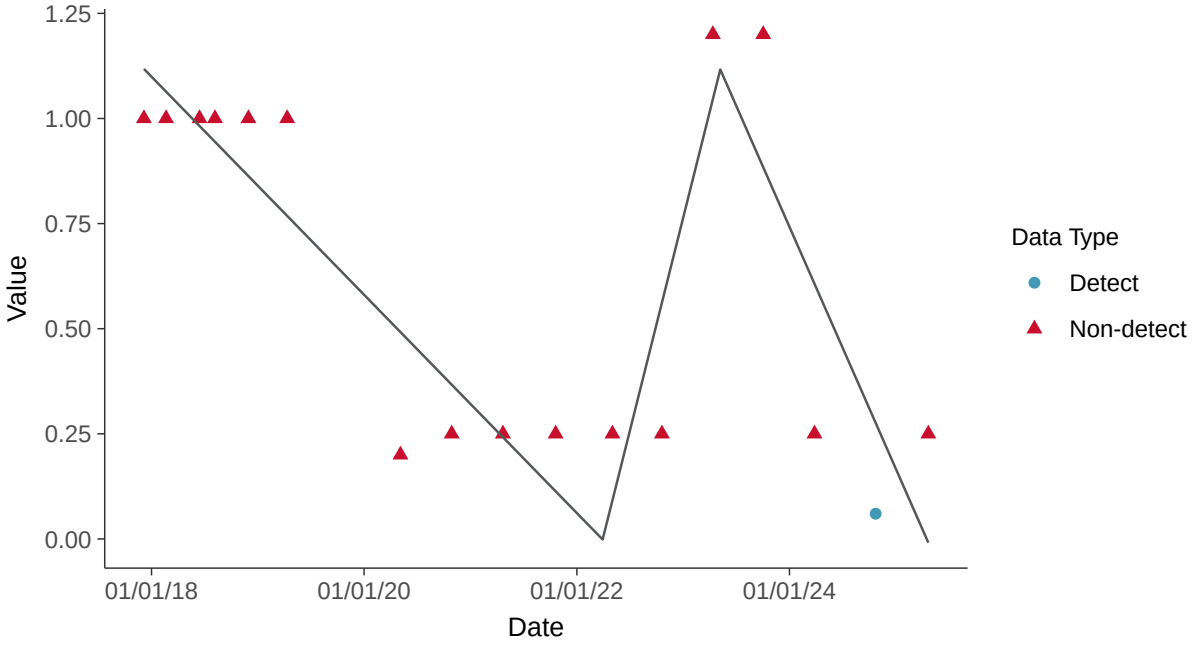
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-17005 (ug/L)



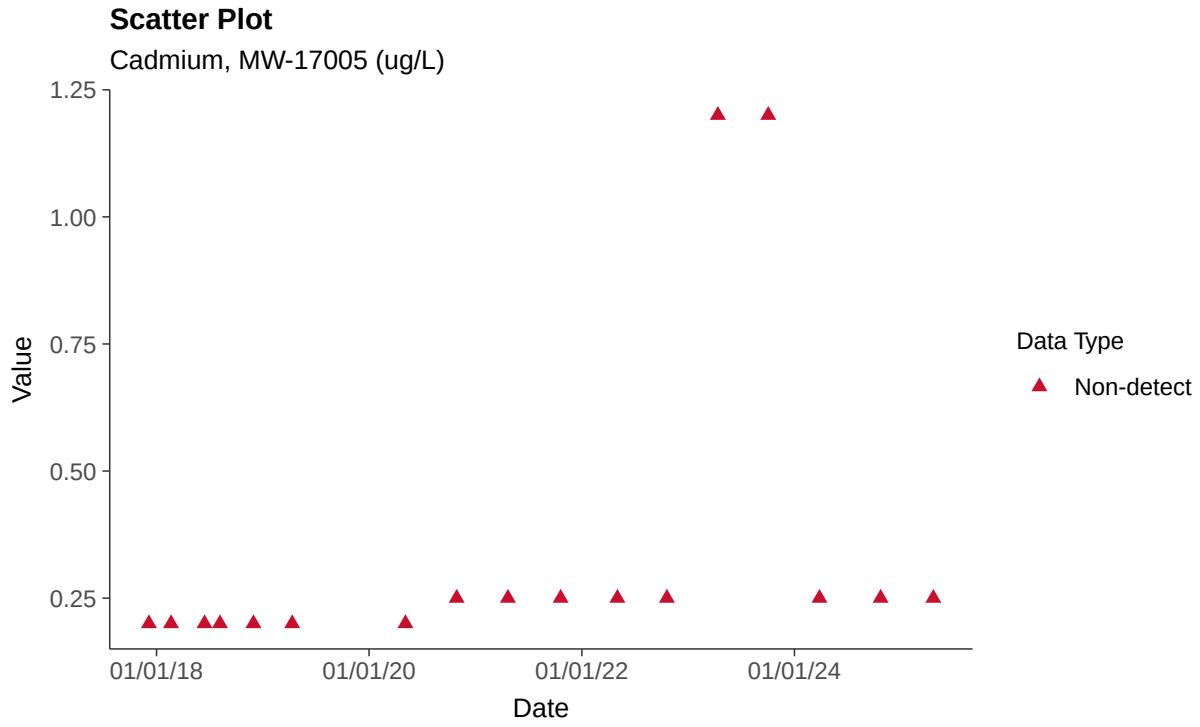
Trend Regression: Piecewise Linear-Linear-Linear

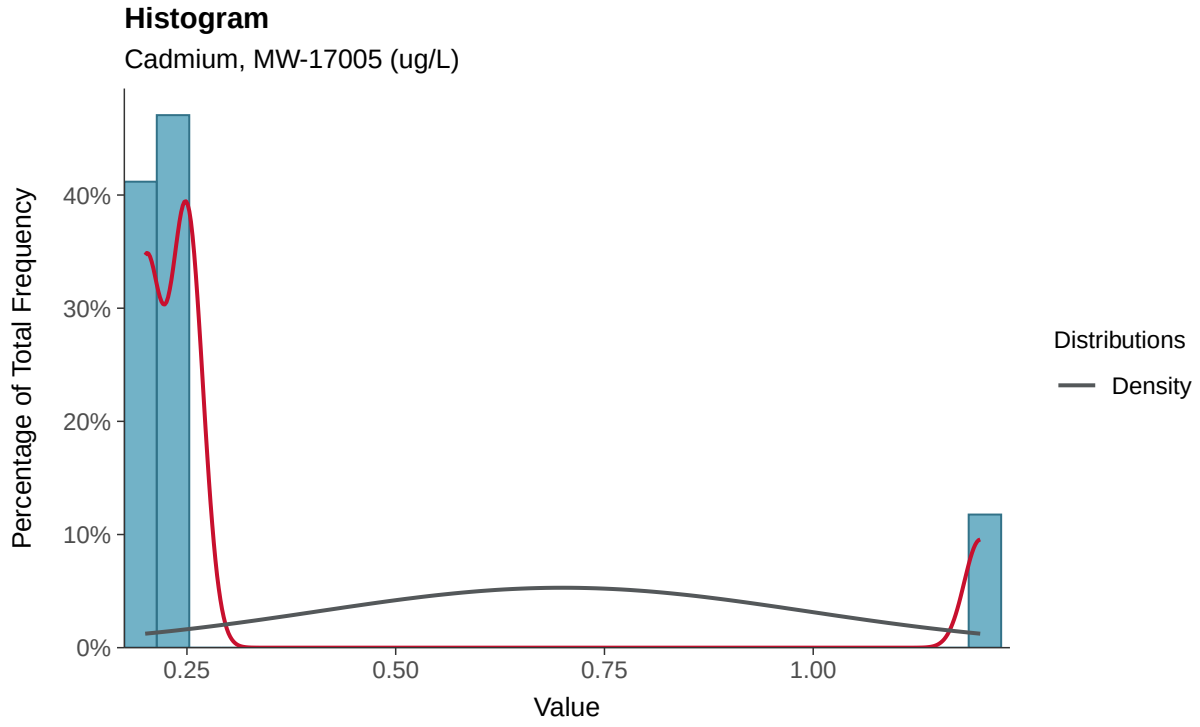
Beryllium, MW-17005 (ug/L)



Appendix IV: Cadmium, MW-17005

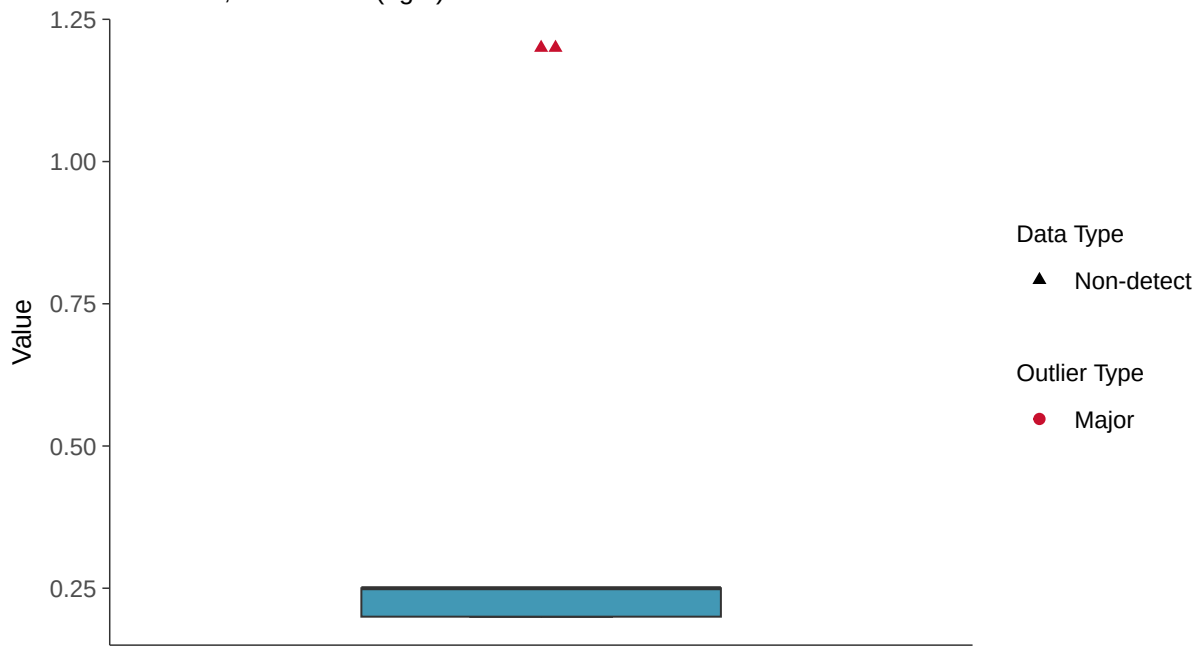
ID: 18_2_106





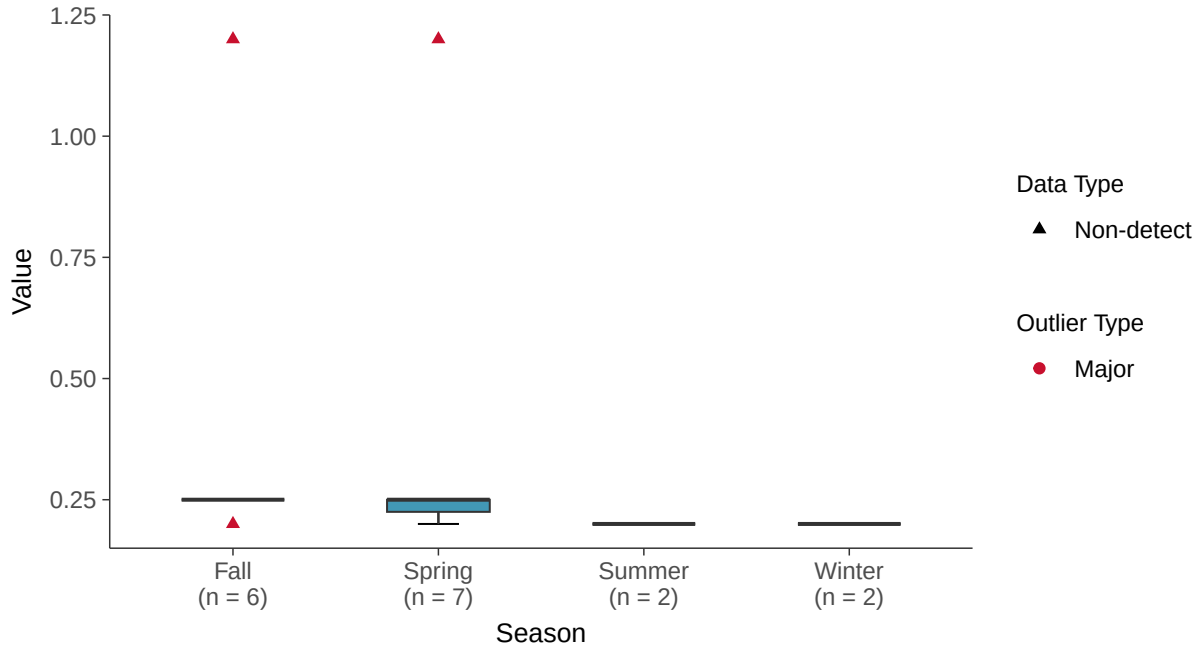
Boxplot

Cadmium, MW-17005 (ug/L)



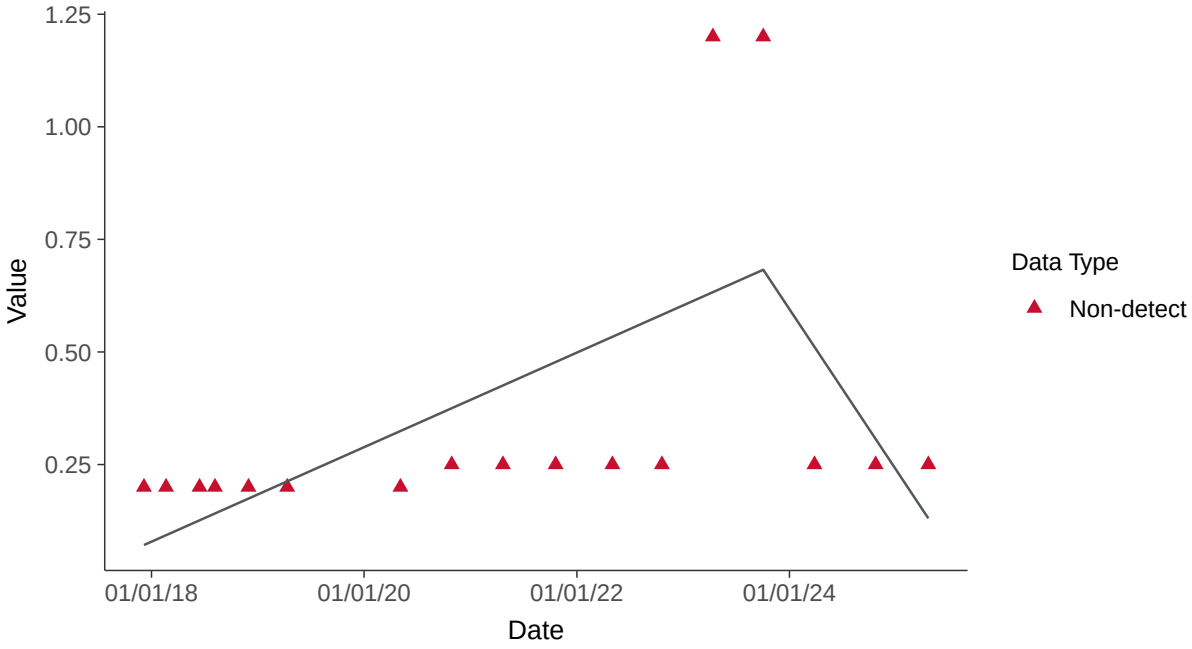
Boxplot by Season

Cadmium, MW-17005 (ug/L)



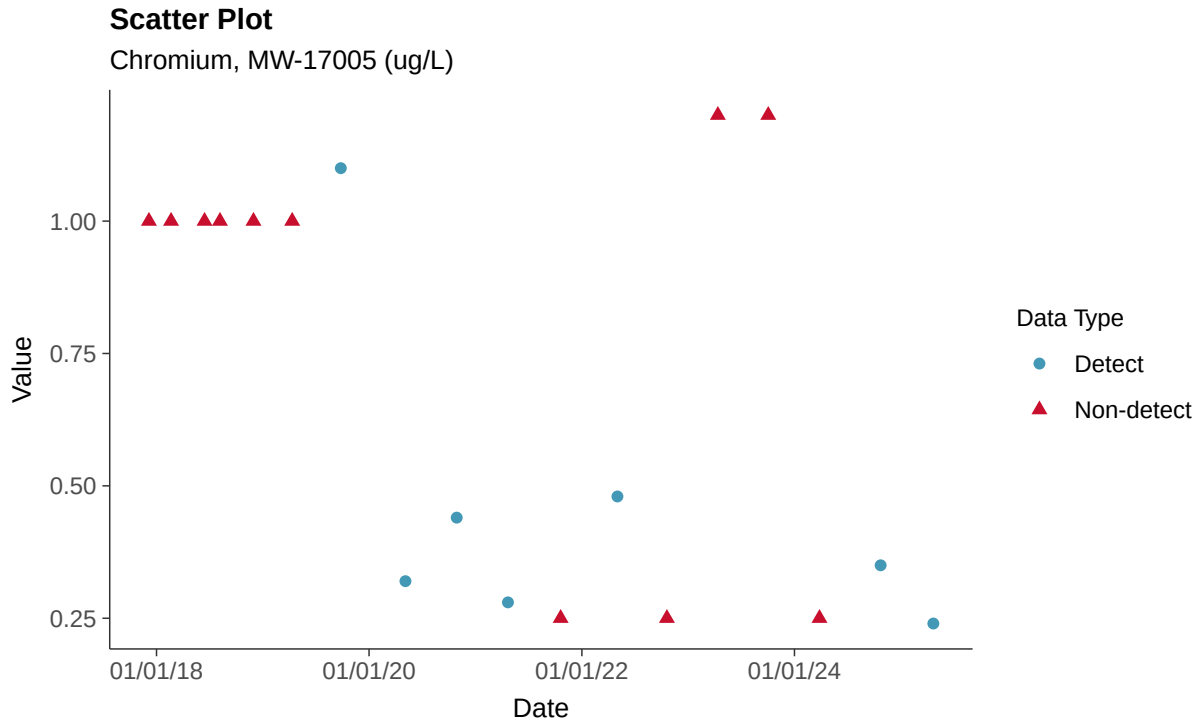
Trend Regression: Piecewise Linear-Linear

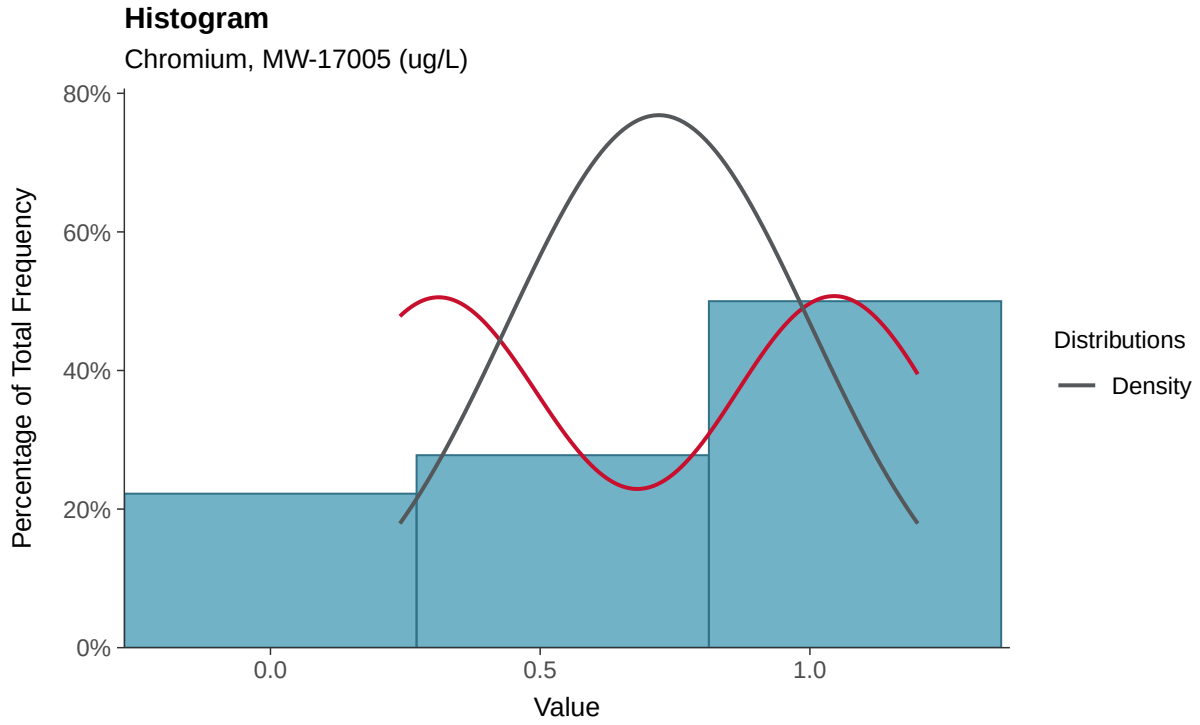
Cadmium, MW-17005 (ug/L)



Appendix IV: Chromium, MW-17005

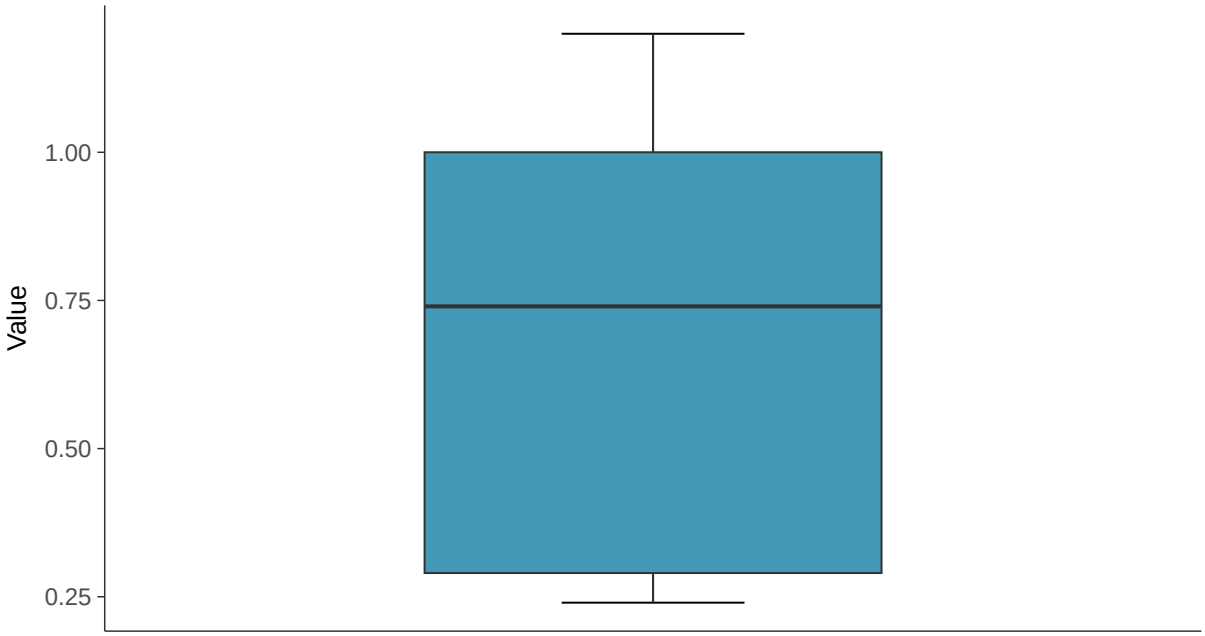
ID: 18_2_109





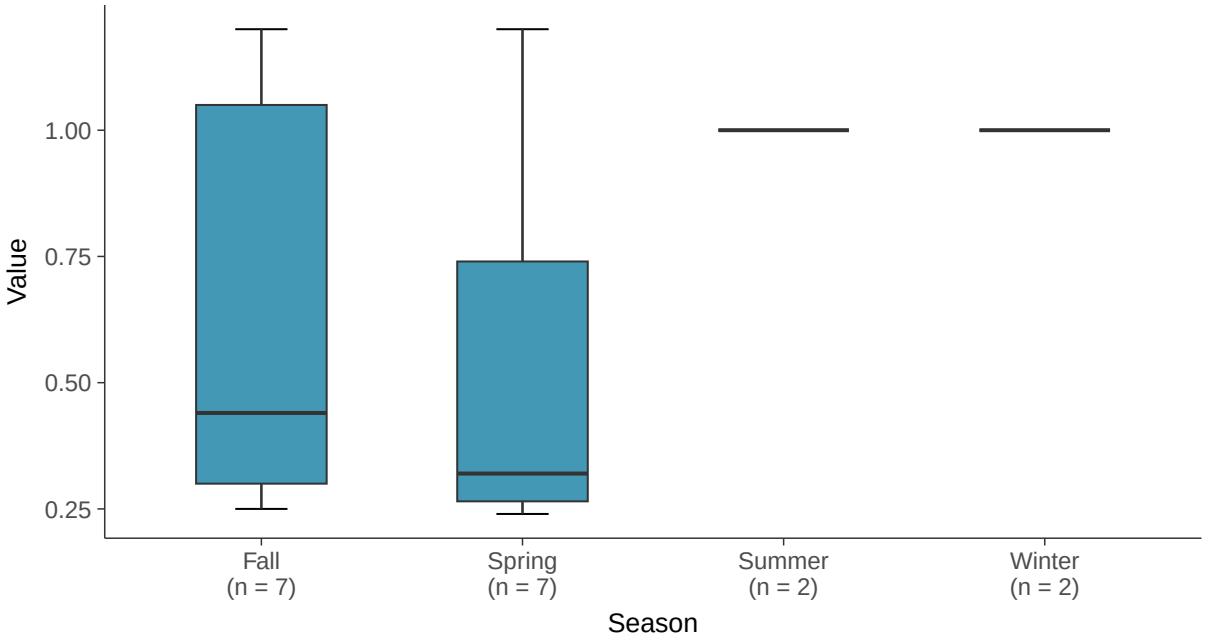
Boxplot

Chromium, MW-17005 (ug/L)



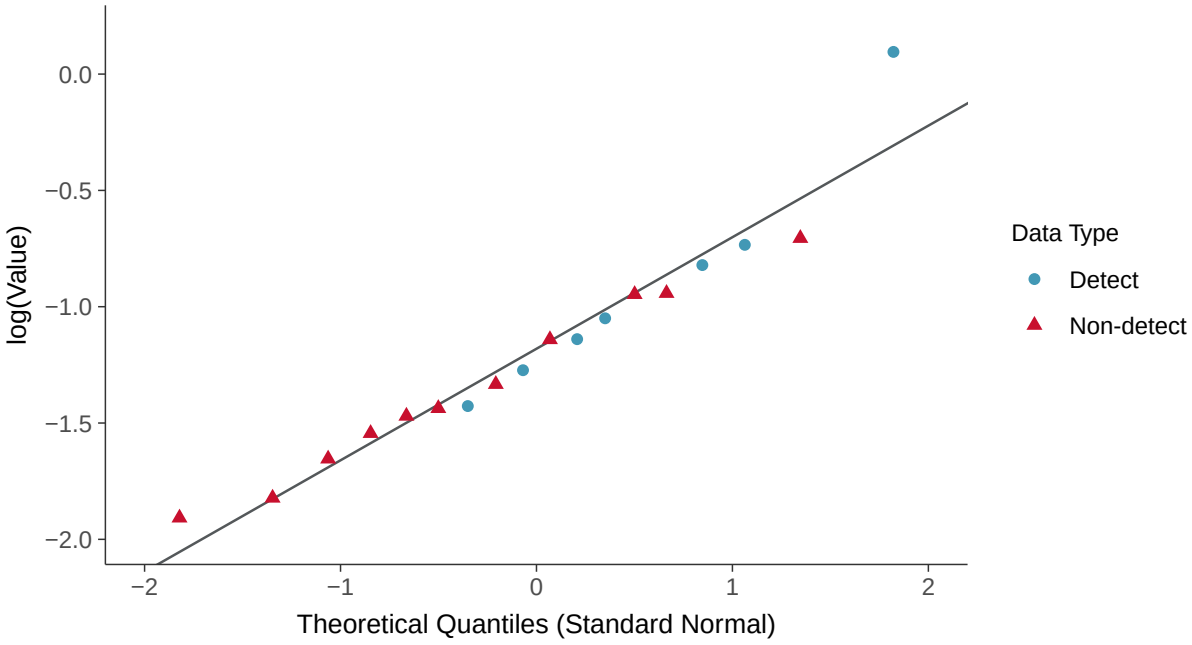
Boxplot by Season

Chromium, MW-17005 (ug/L)



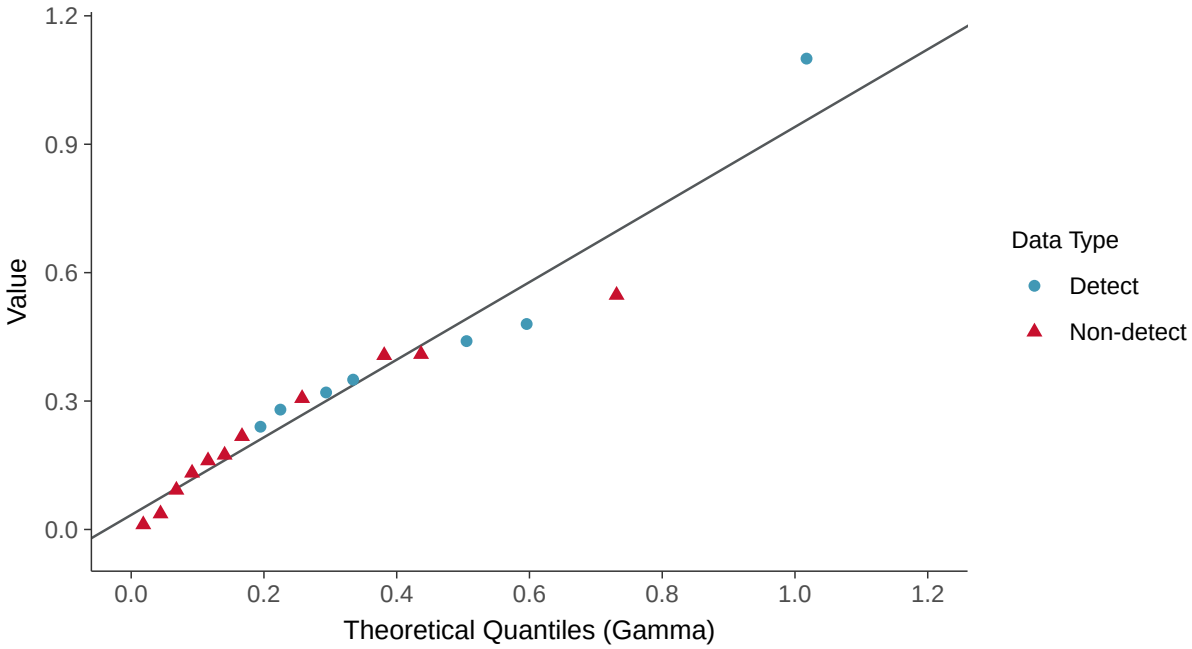
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, MW-17005 (ug/L)



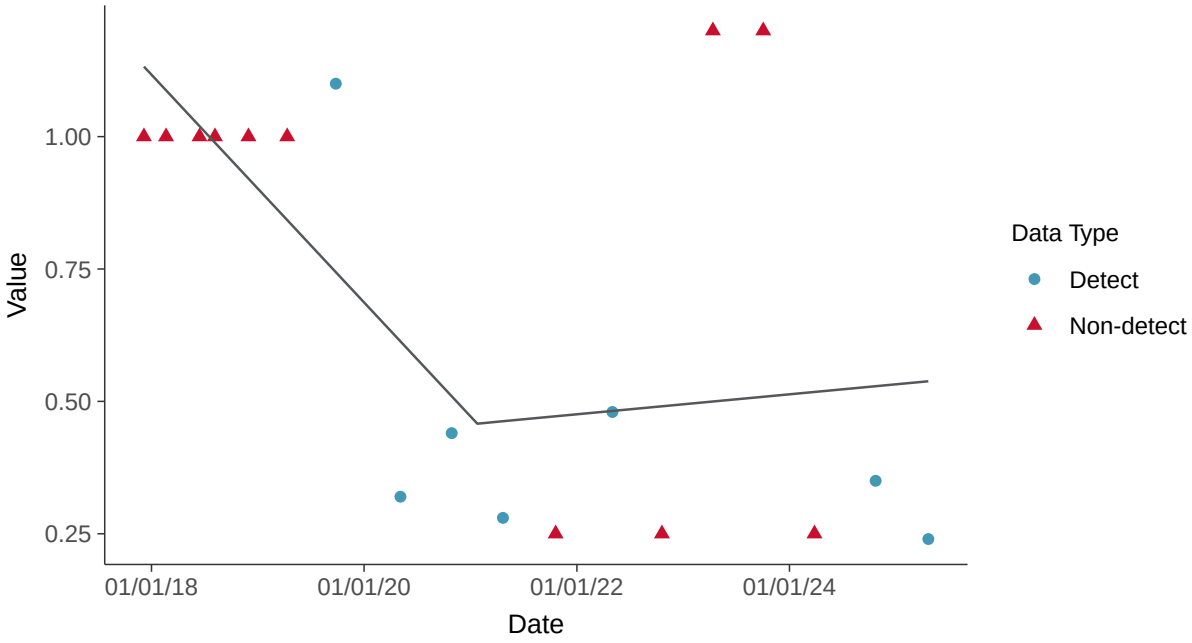
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, MW-17005 (ug/L)



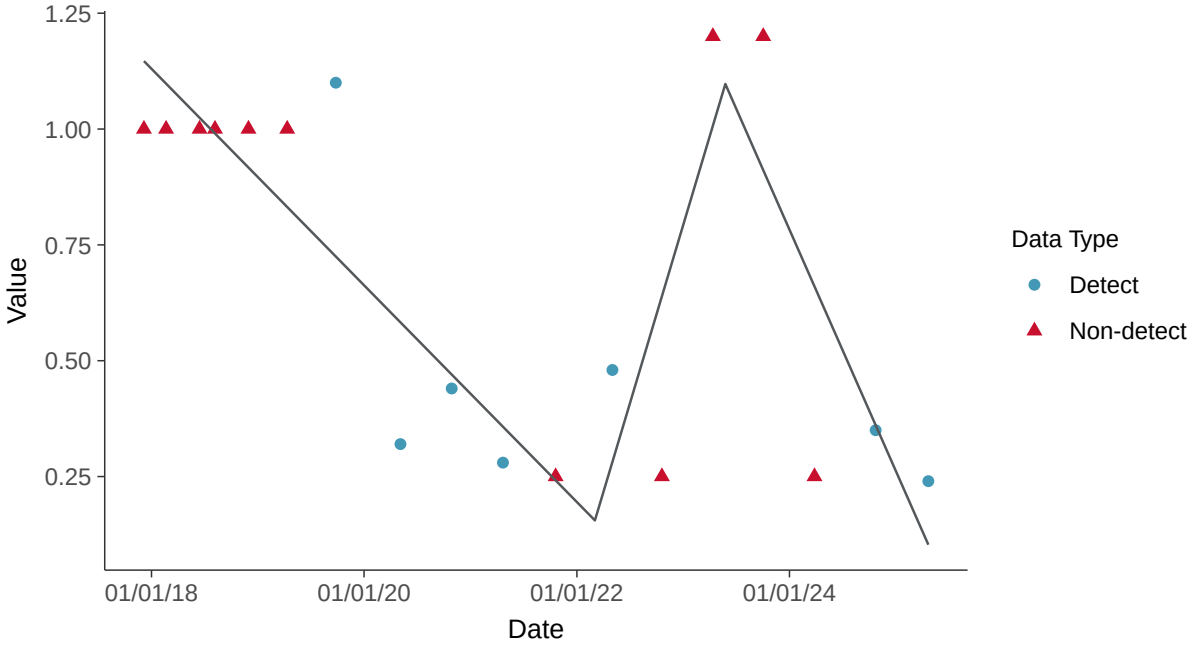
Trend Regression: Piecewise Linear-Linear

Chromium, MW-17005 (ug/L)



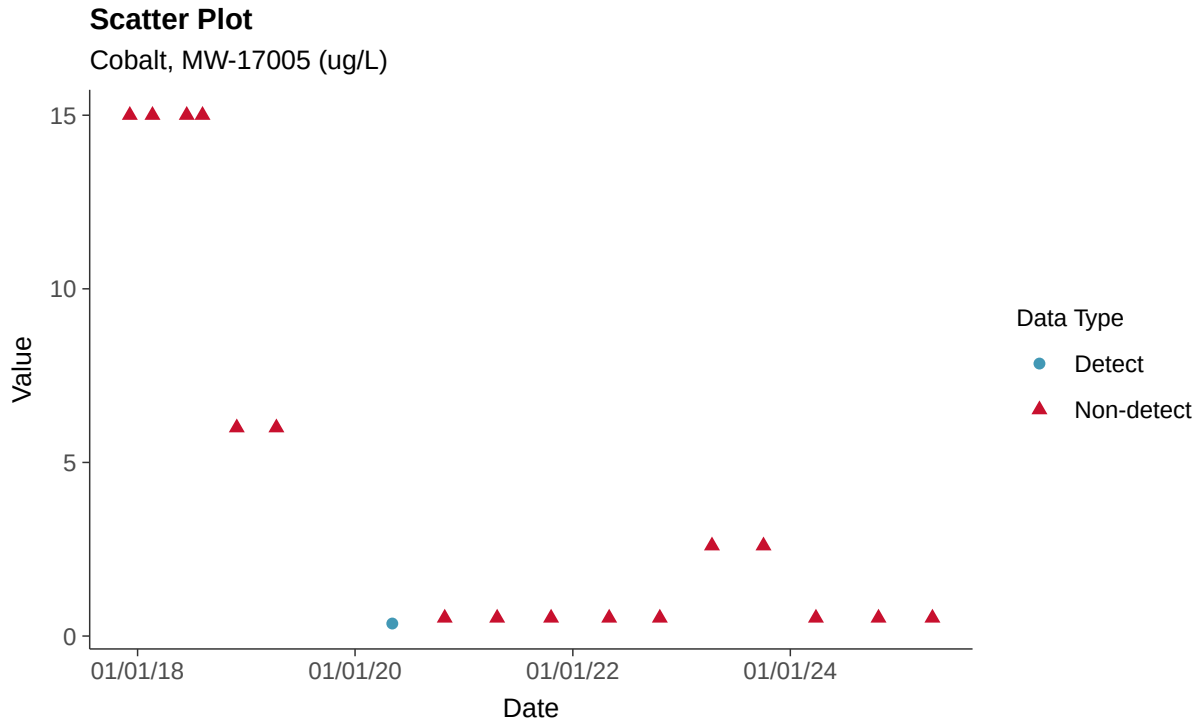
Trend Regression: Piecewise Linear-Linear-Linear

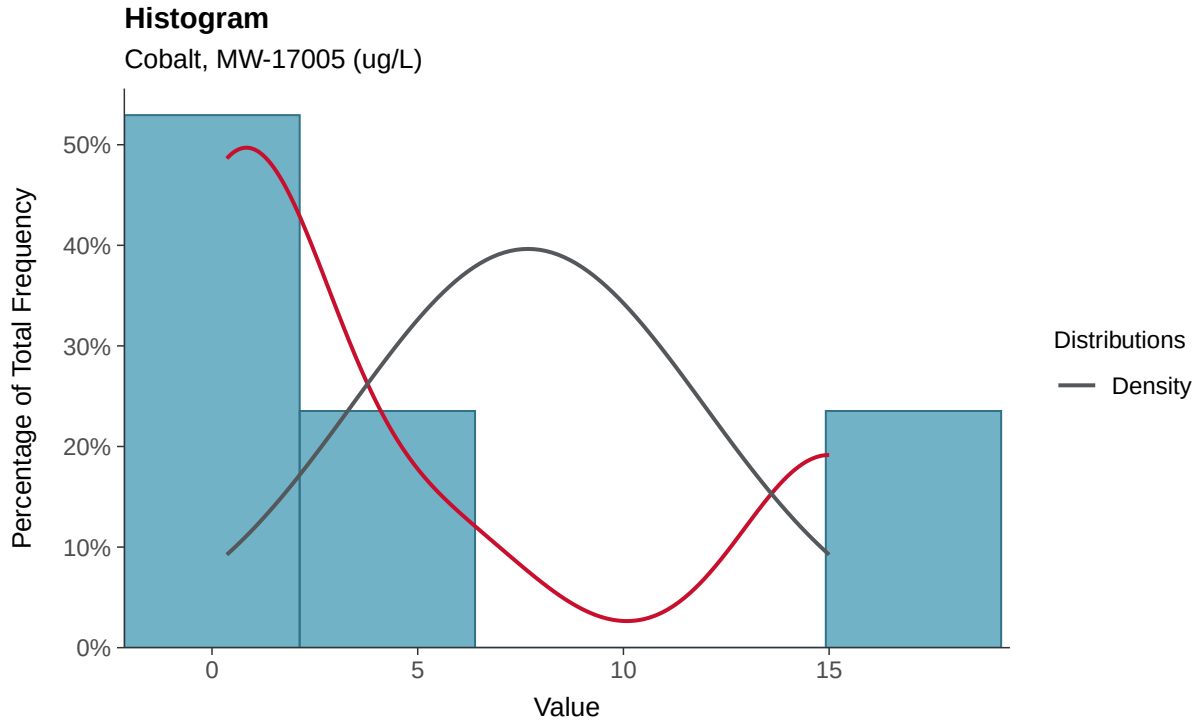
Chromium, MW-17005 (ug/L)



Appendix IV: Cobalt, MW-17005

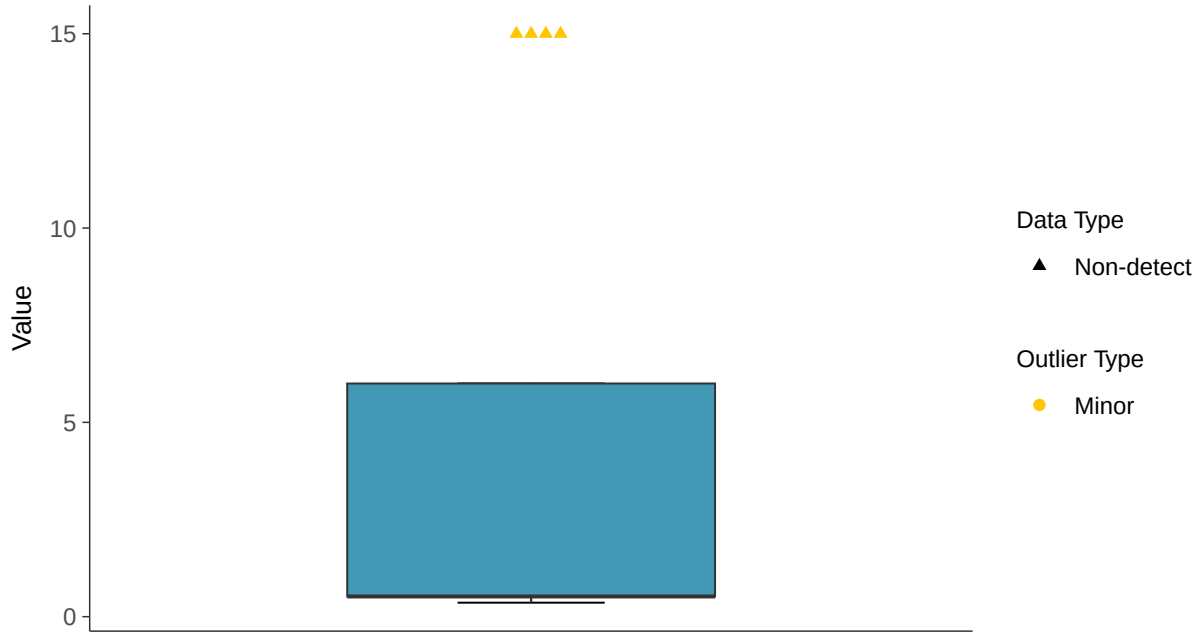
ID: 18_2_110





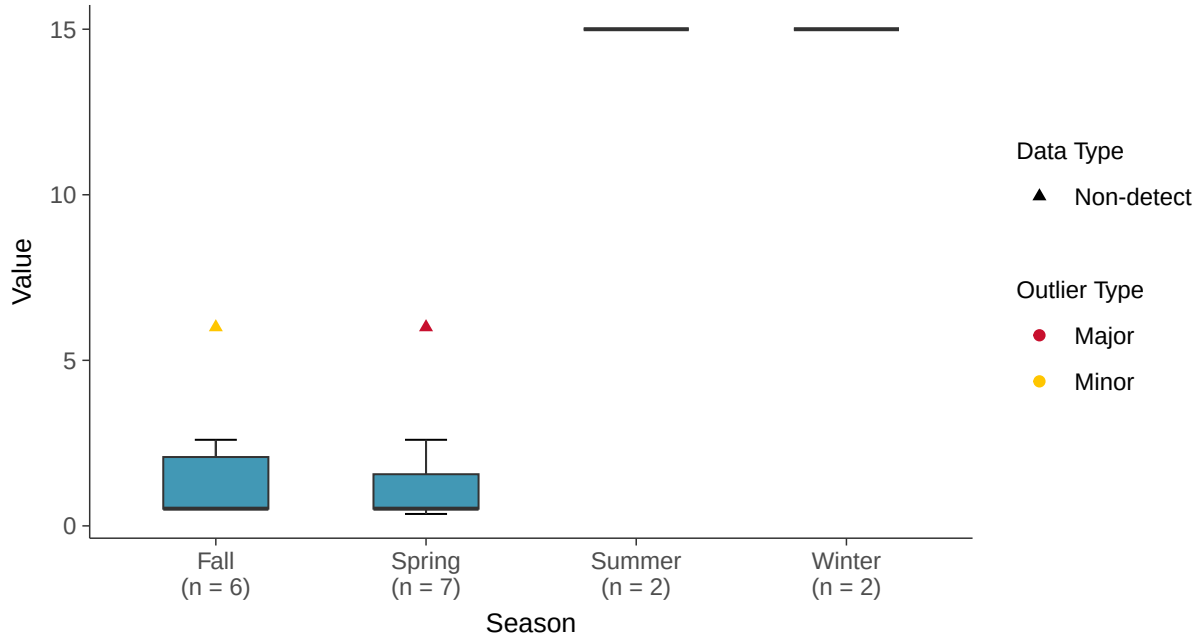
Boxplot

Cobalt, MW-17005 (ug/L)



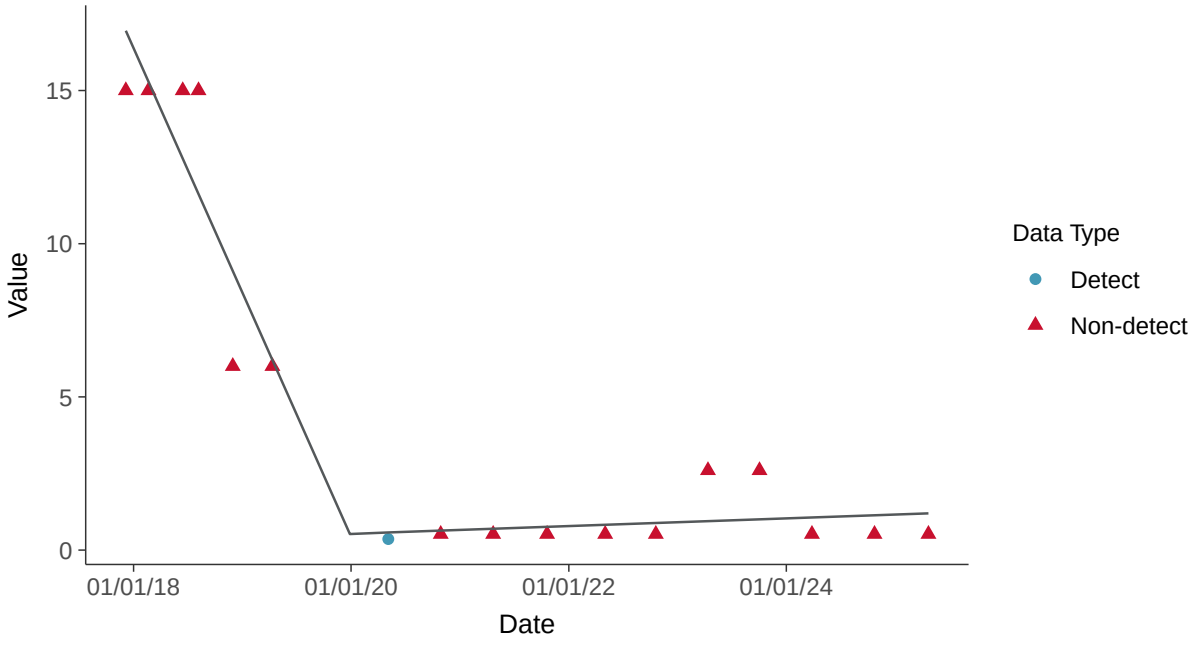
Boxplot by Season

Cobalt, MW-17005 (ug/L)



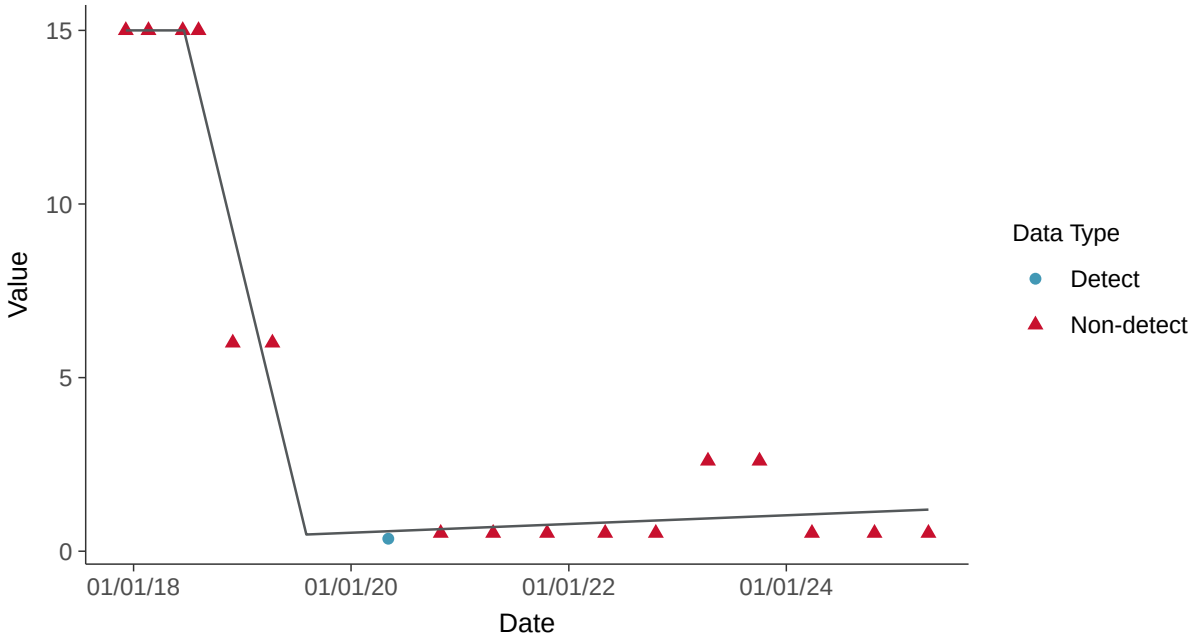
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-17005 (ug/L)



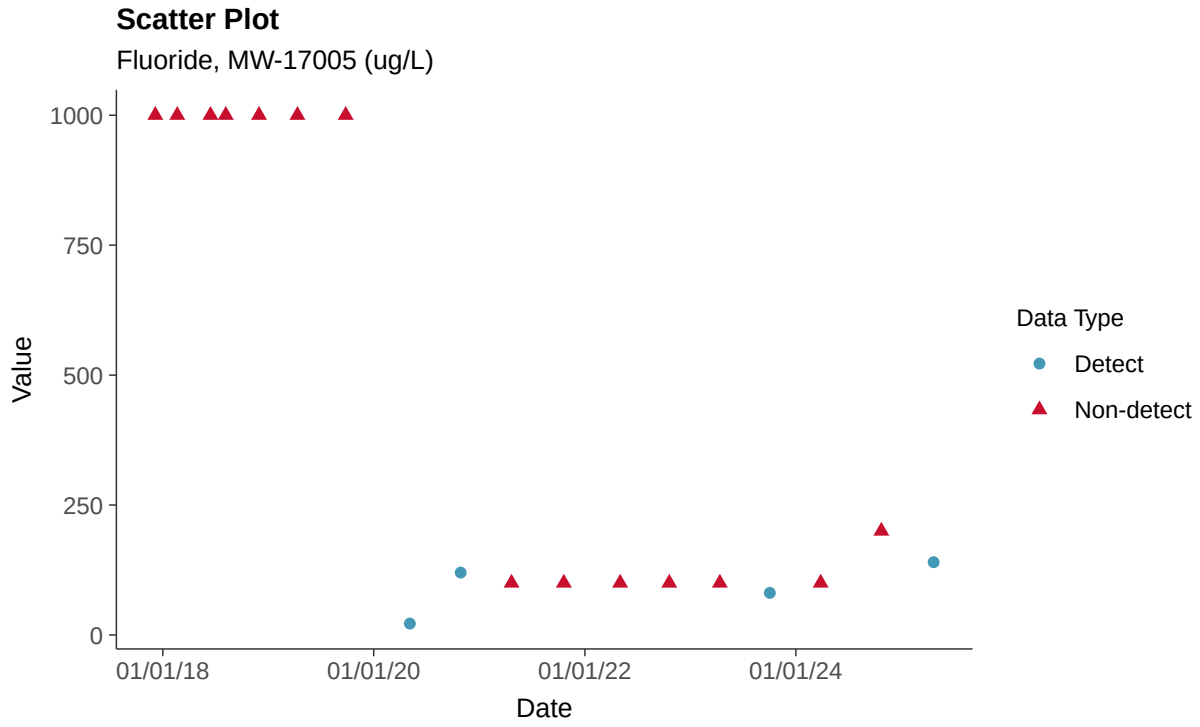
Trend Regression: Piecewise Linear-Linear-Linear

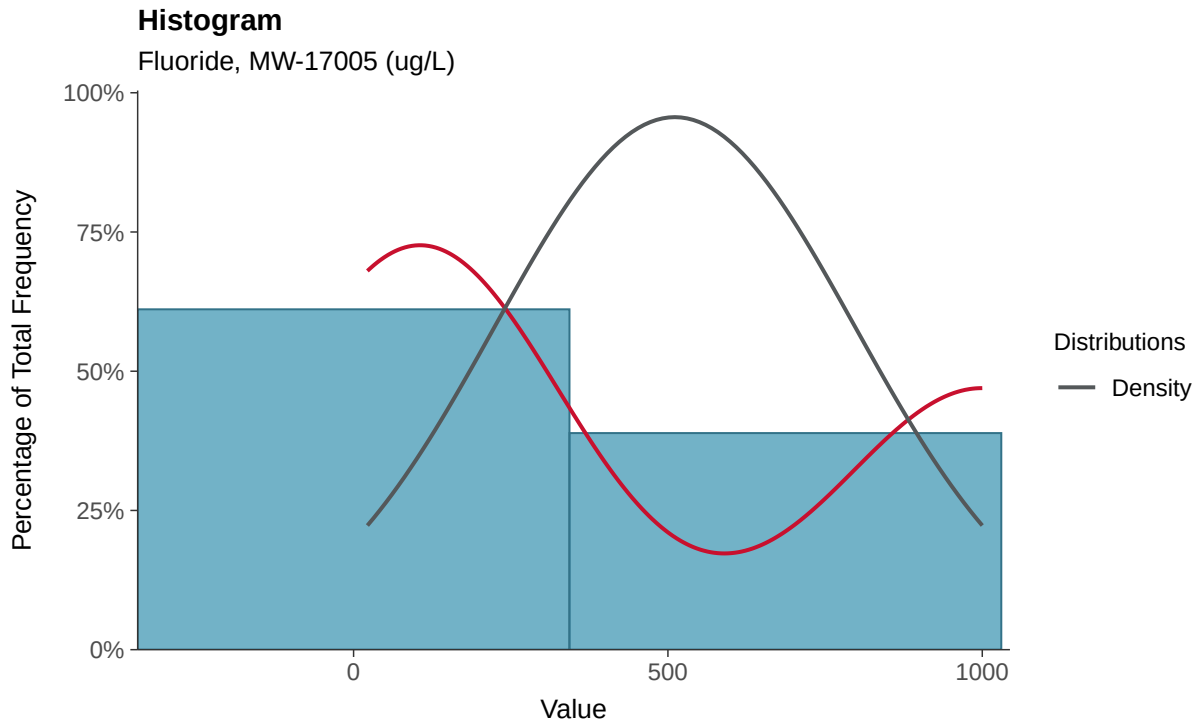
Cobalt, MW-17005 (ug/L)



Appendix IV: Fluoride, MW-17005

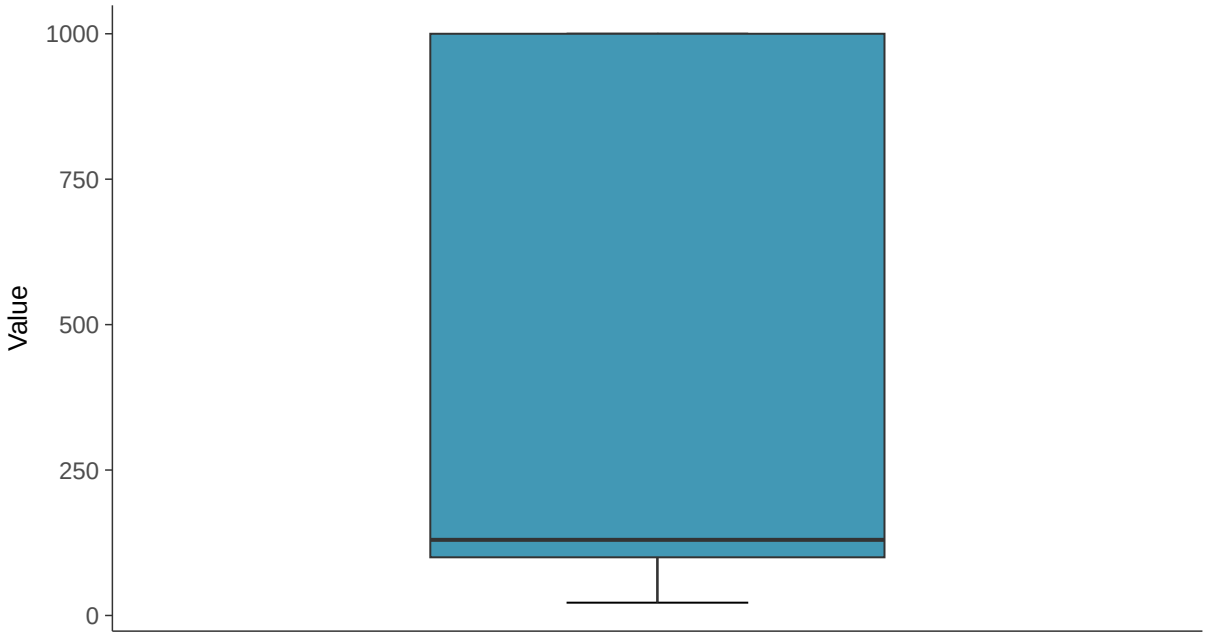
ID: 18_2_114





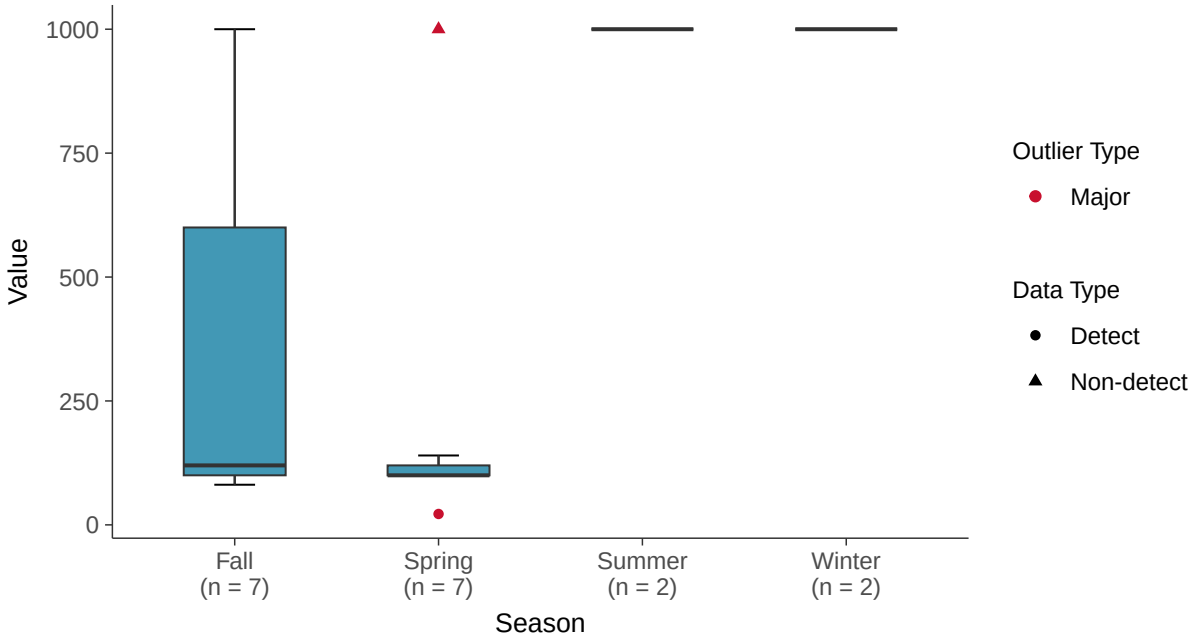
Boxplot

Fluoride, MW-17005 (ug/L)



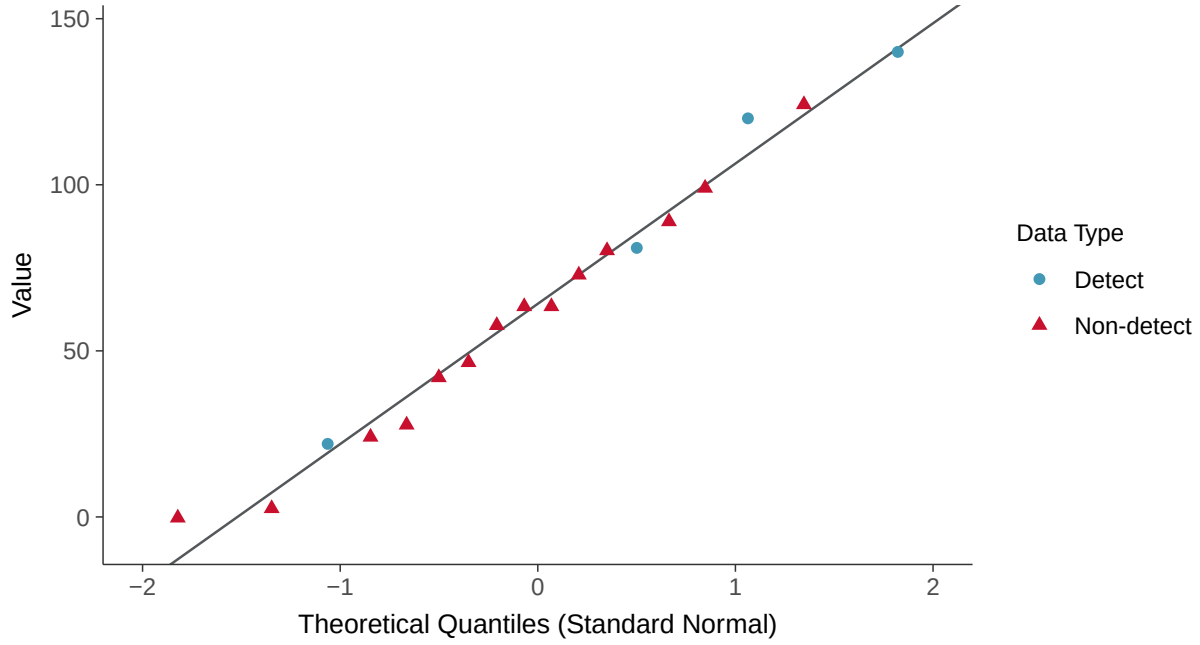
Boxplot by Season

Fluoride, MW-17005 (ug/L)



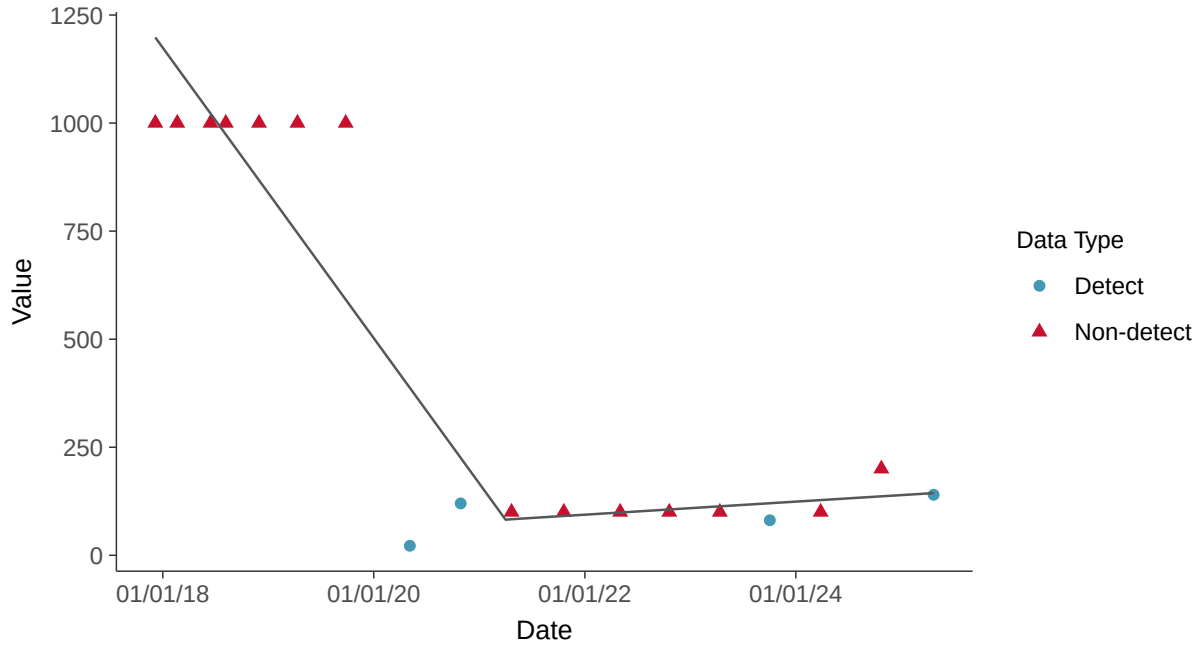
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17005 (ug/L)



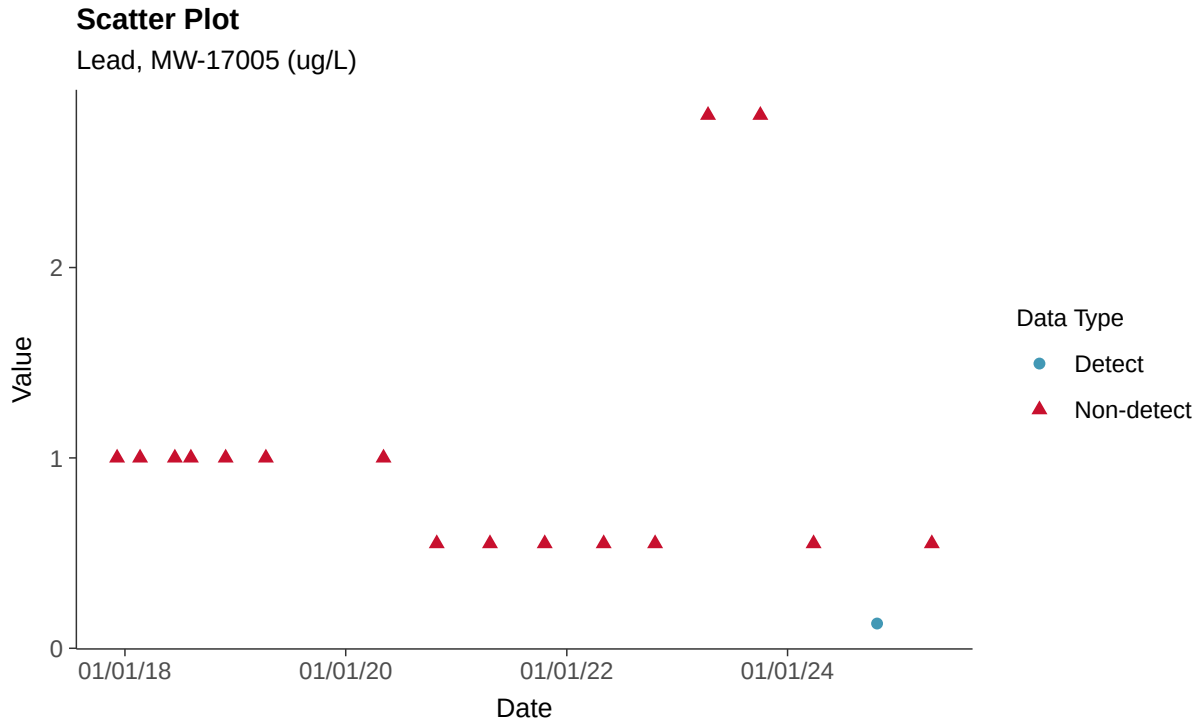
Trend Regression: Piecewise Linear-Linear

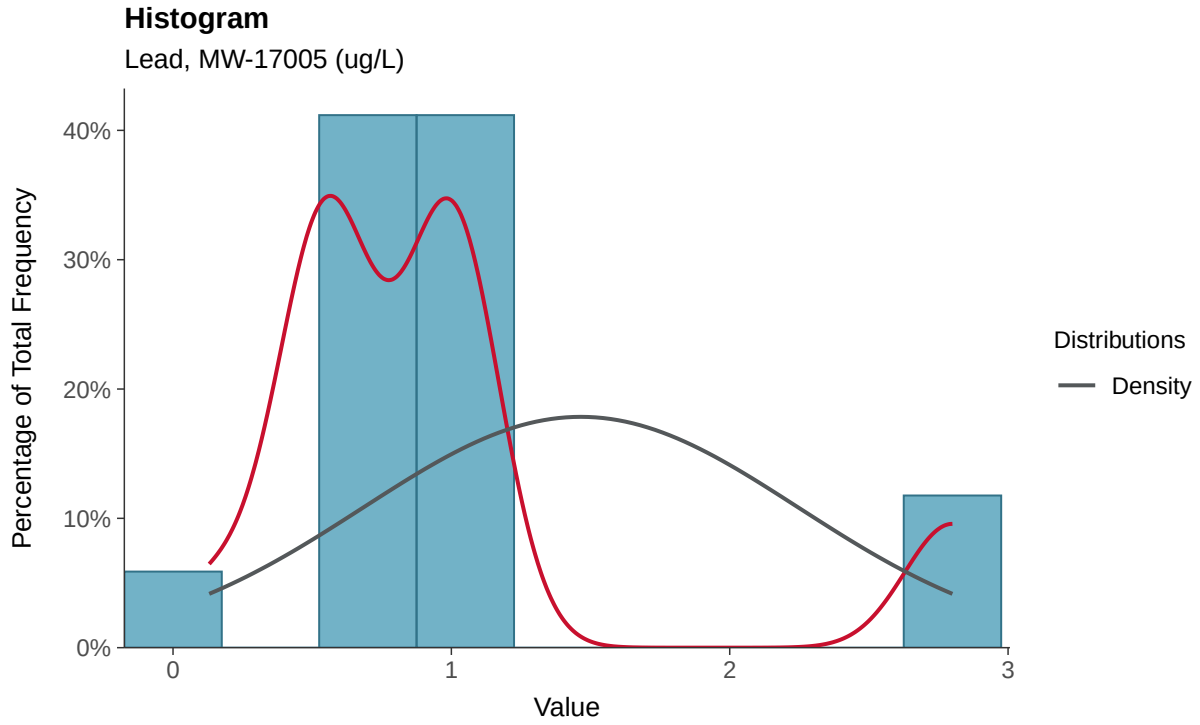
Fluoride, MW-17005 (ug/L)



Appendix IV: Lead, MW-17005

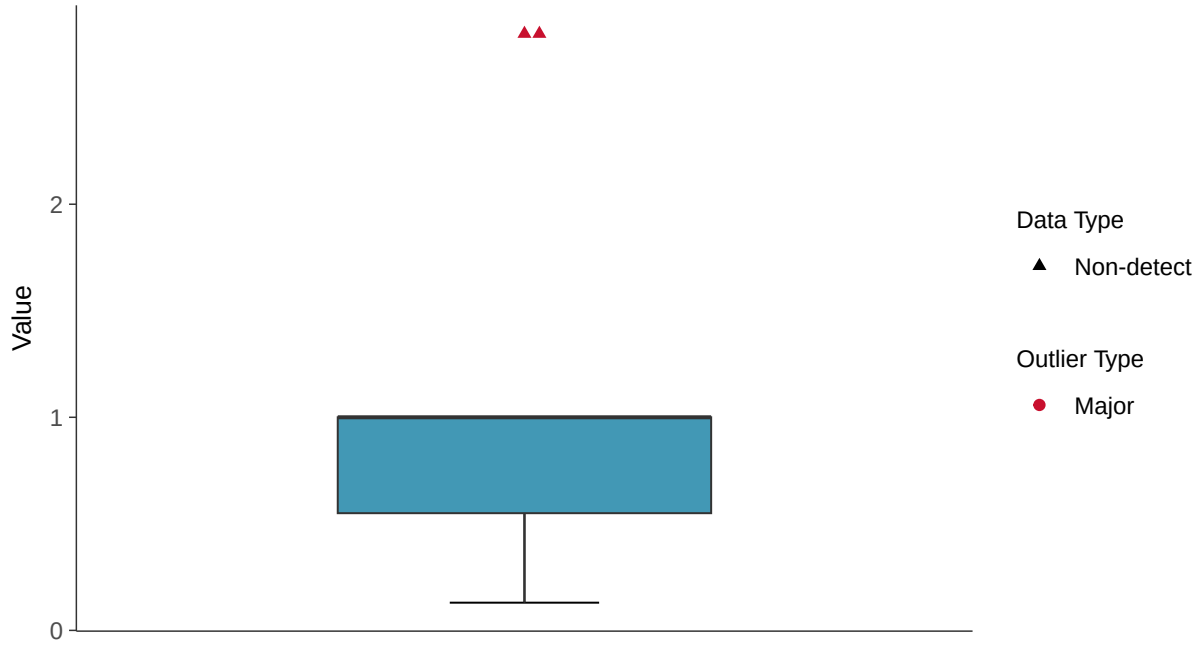
ID: 18_2_116





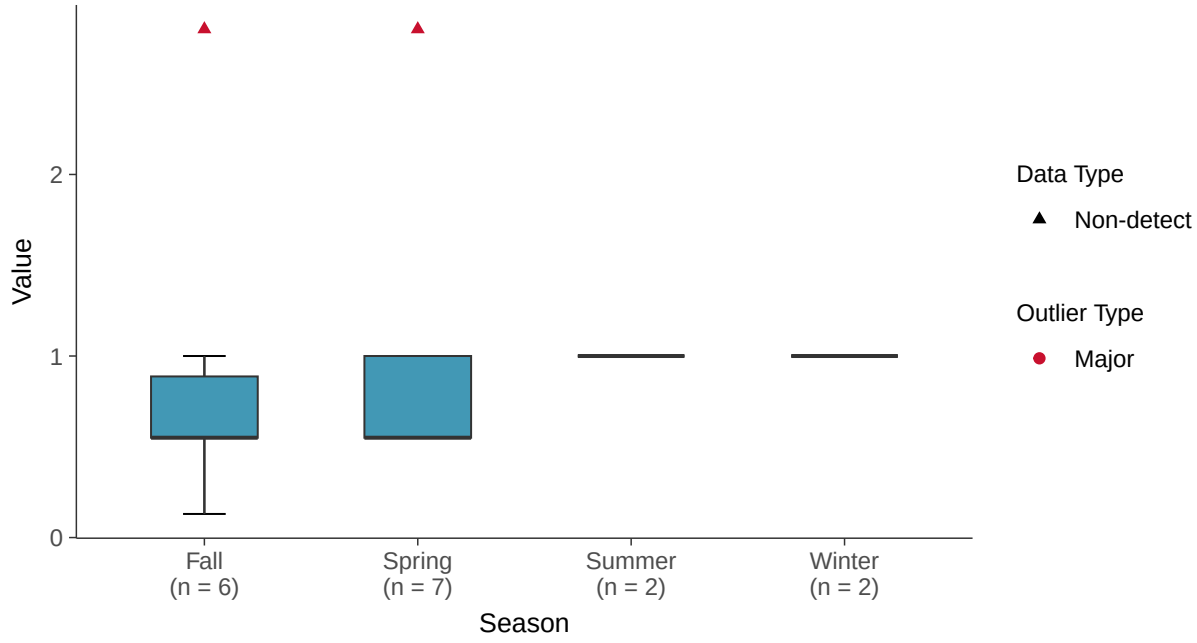
Boxplot

Lead, MW-17005 (ug/L)



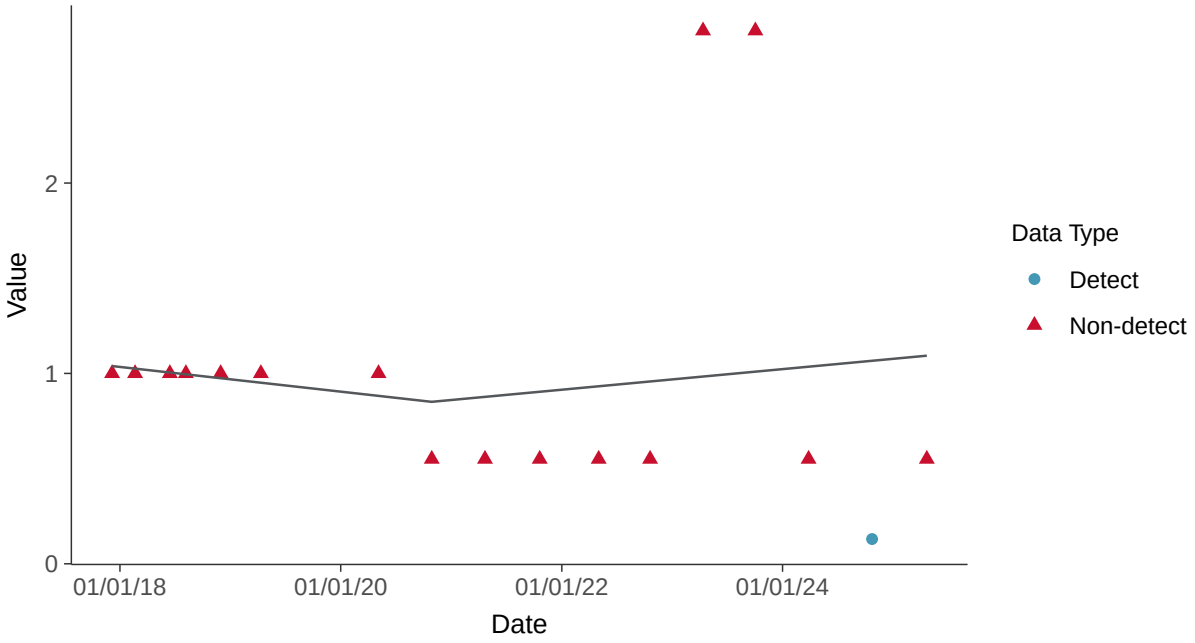
Boxplot by Season

Lead, MW-17005 (ug/L)



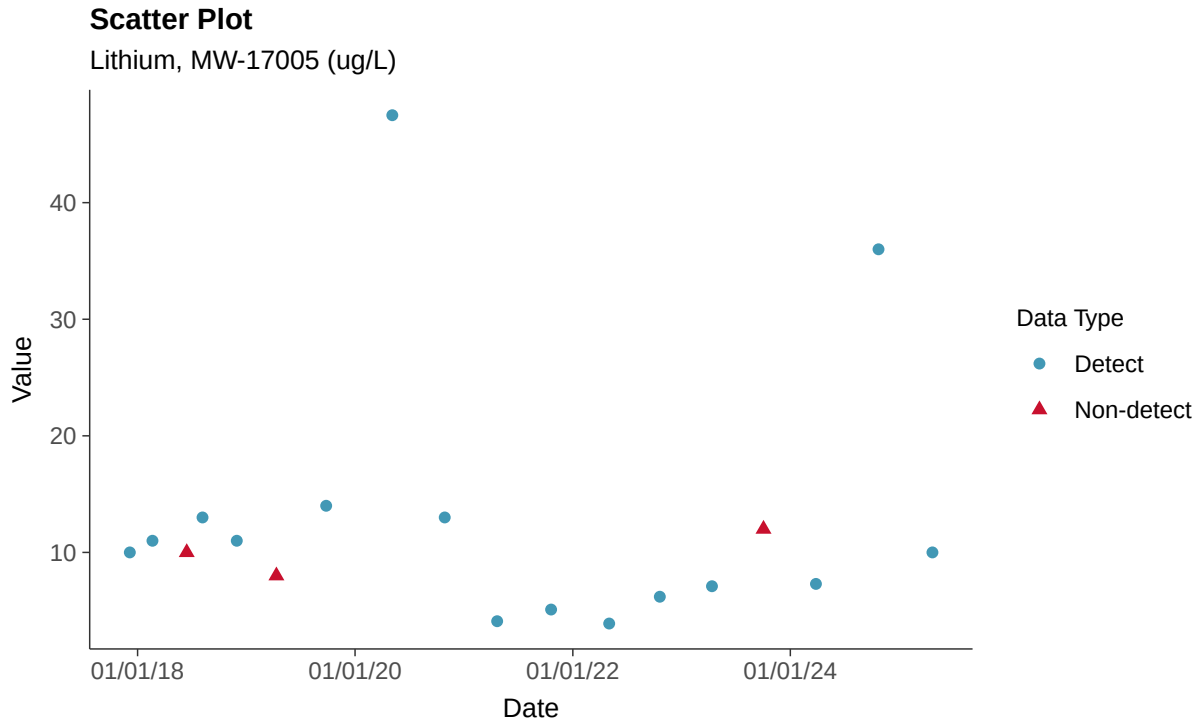
Trend Regression: Piecewise Linear-Linear

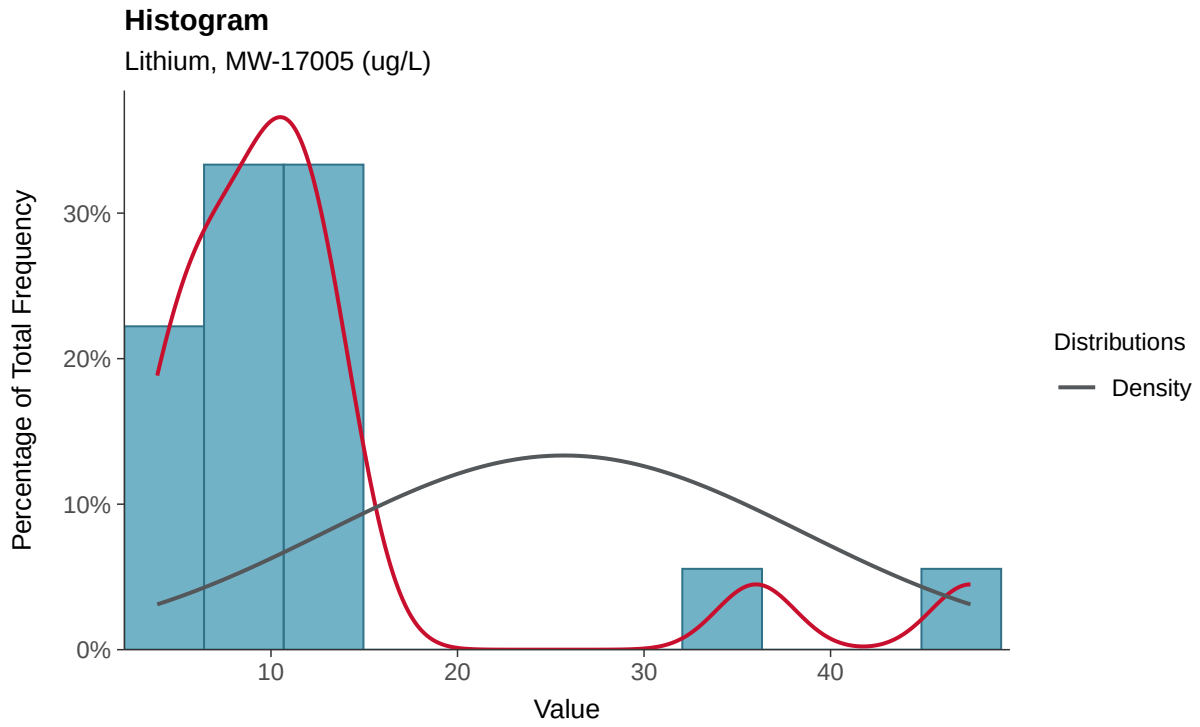
Lead, MW-17005 (ug/L)



Appendix IV: Lithium, MW-17005

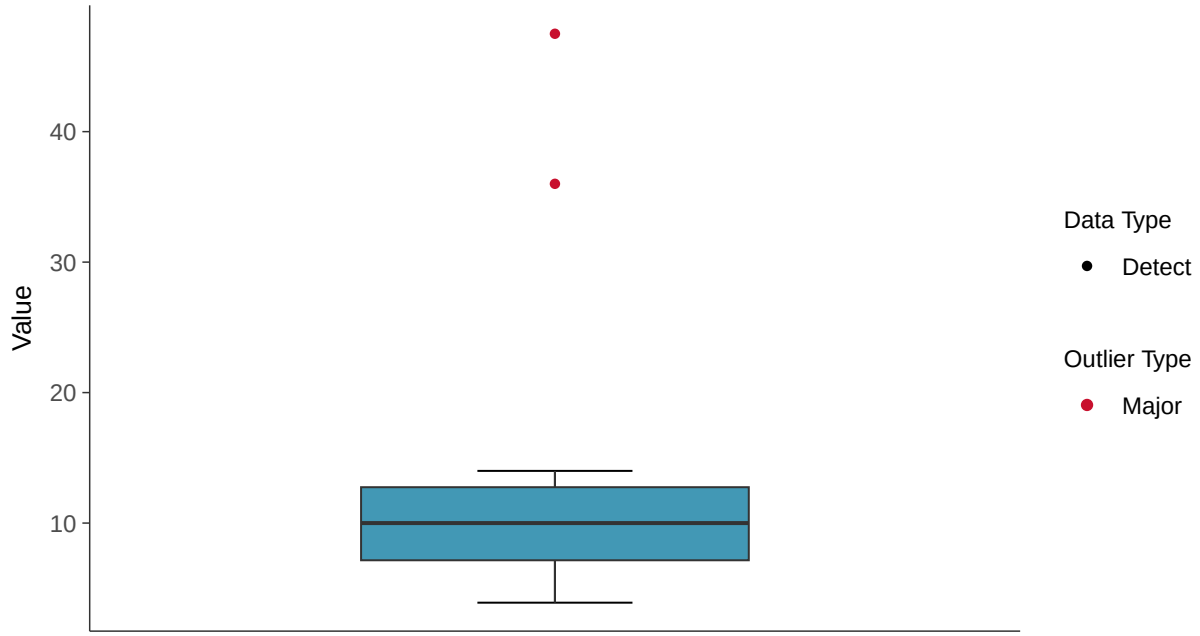
ID: 18_2_117





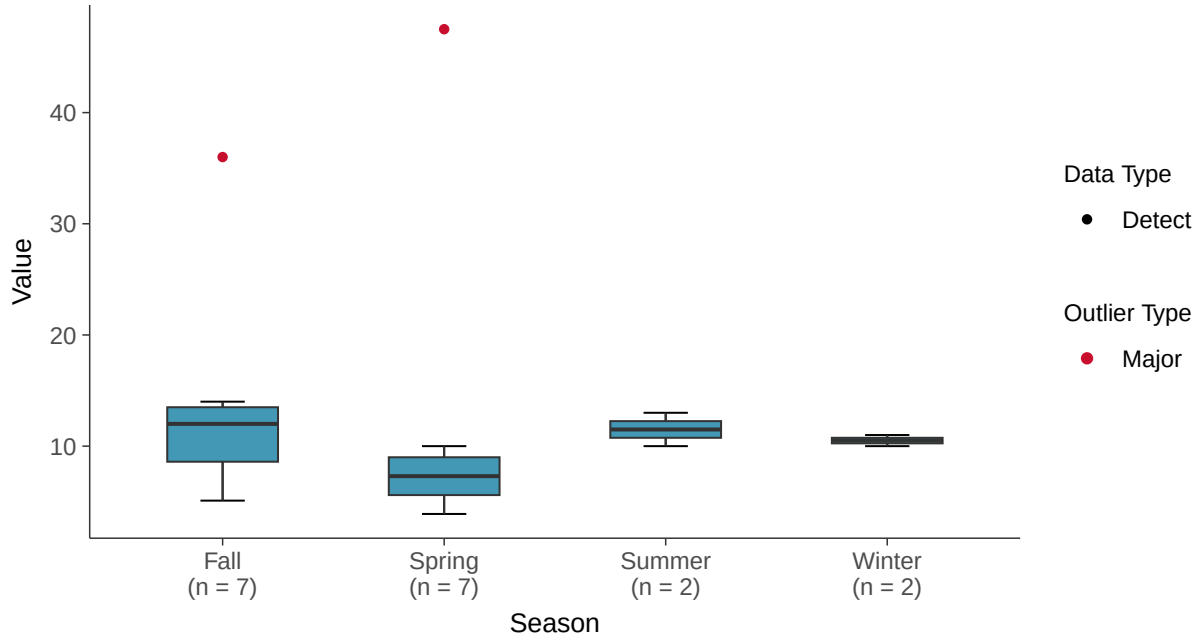
Boxplot

Lithium, MW-17005 (ug/L)



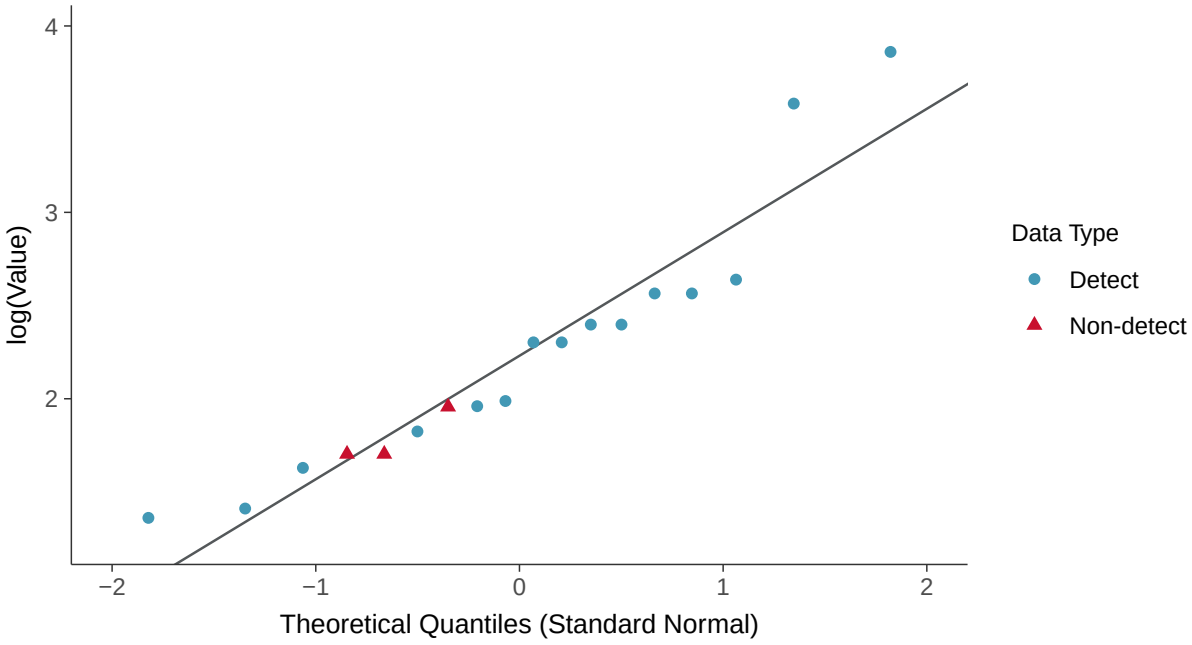
Boxplot by Season

Lithium, MW-17005 (ug/L)



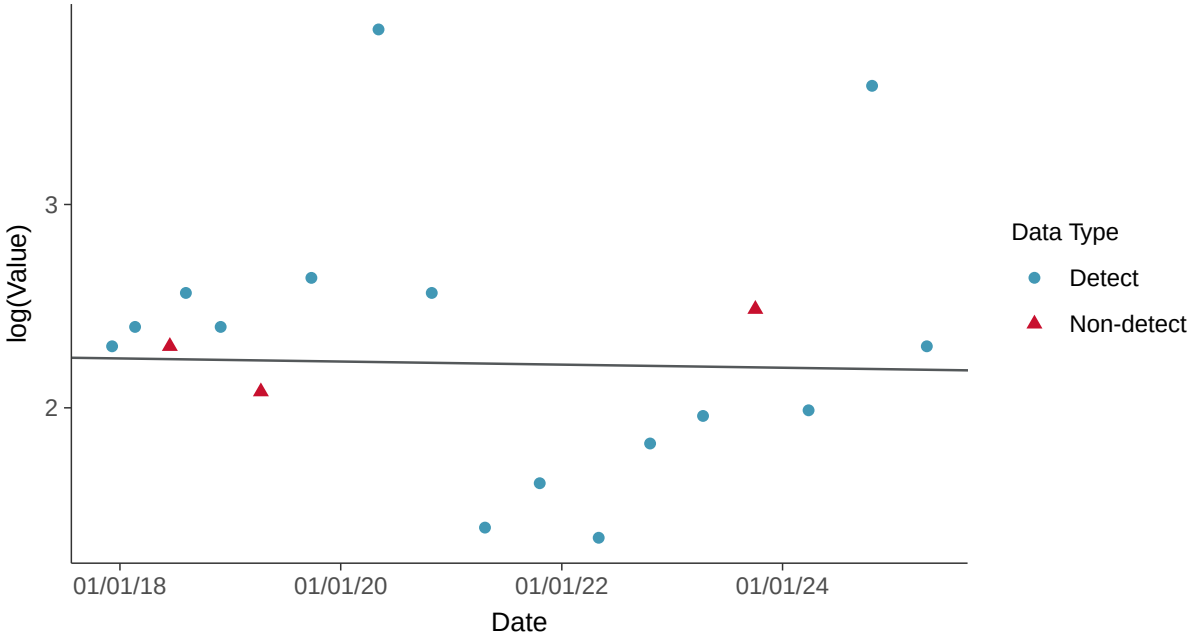
Lognormal Q-Q plot using ROS Imputed Estimates

Lithium, MW-17005 (ug/L)



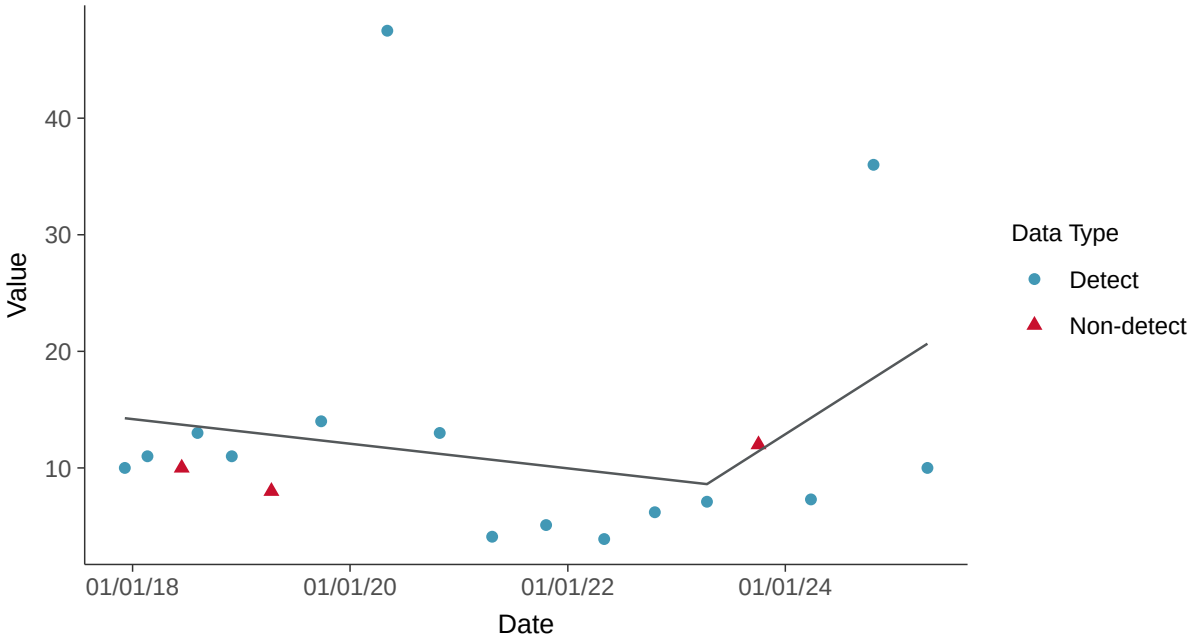
Trend Regression: Lognormal MLE

Lithium, MW-17005 (ug/L)



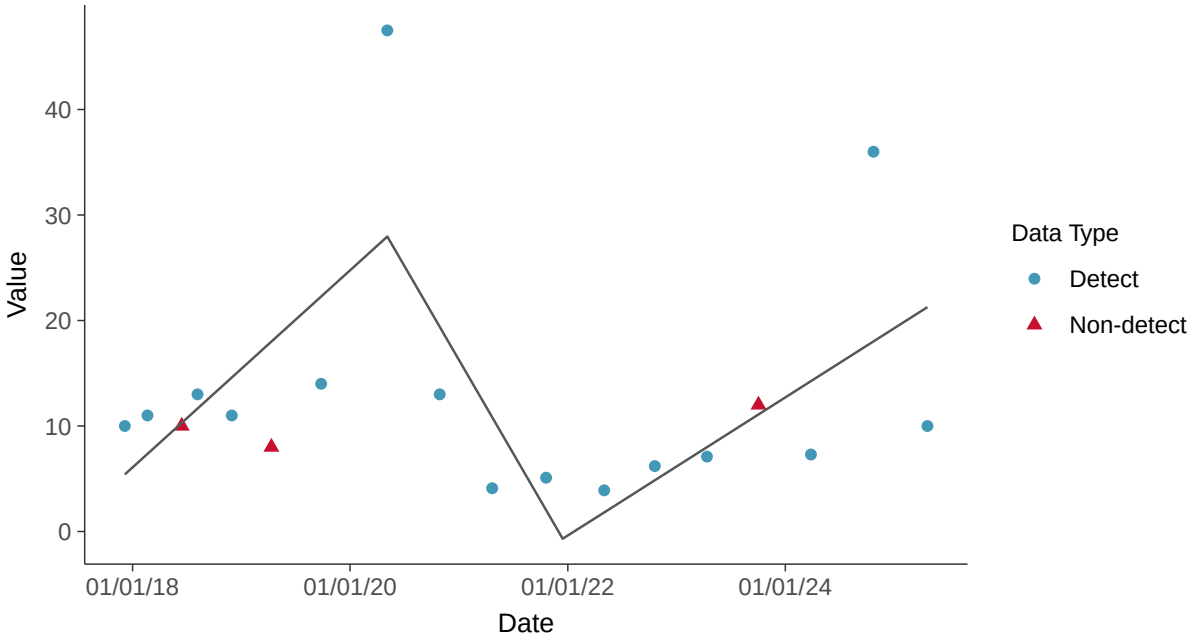
Trend Regression: Piecewise Linear-Linear

Lithium, MW-17005 (ug/L)



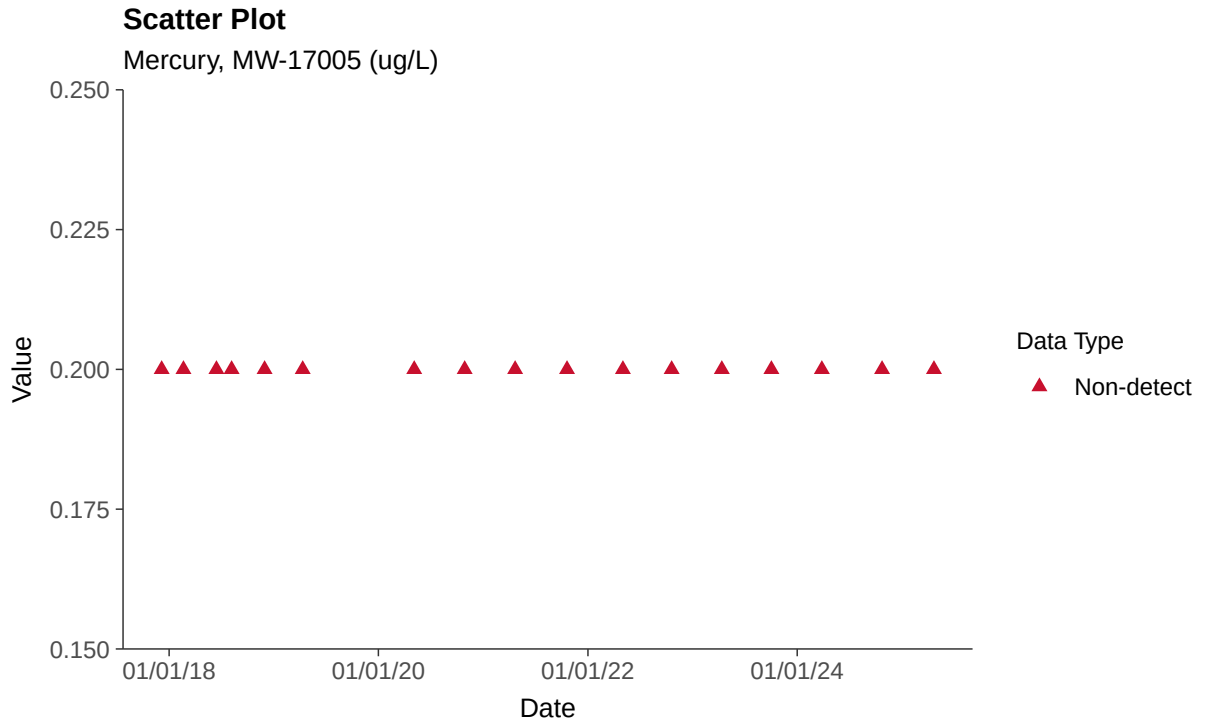
Trend Regression: Piecewise Linear-Linear-Linear

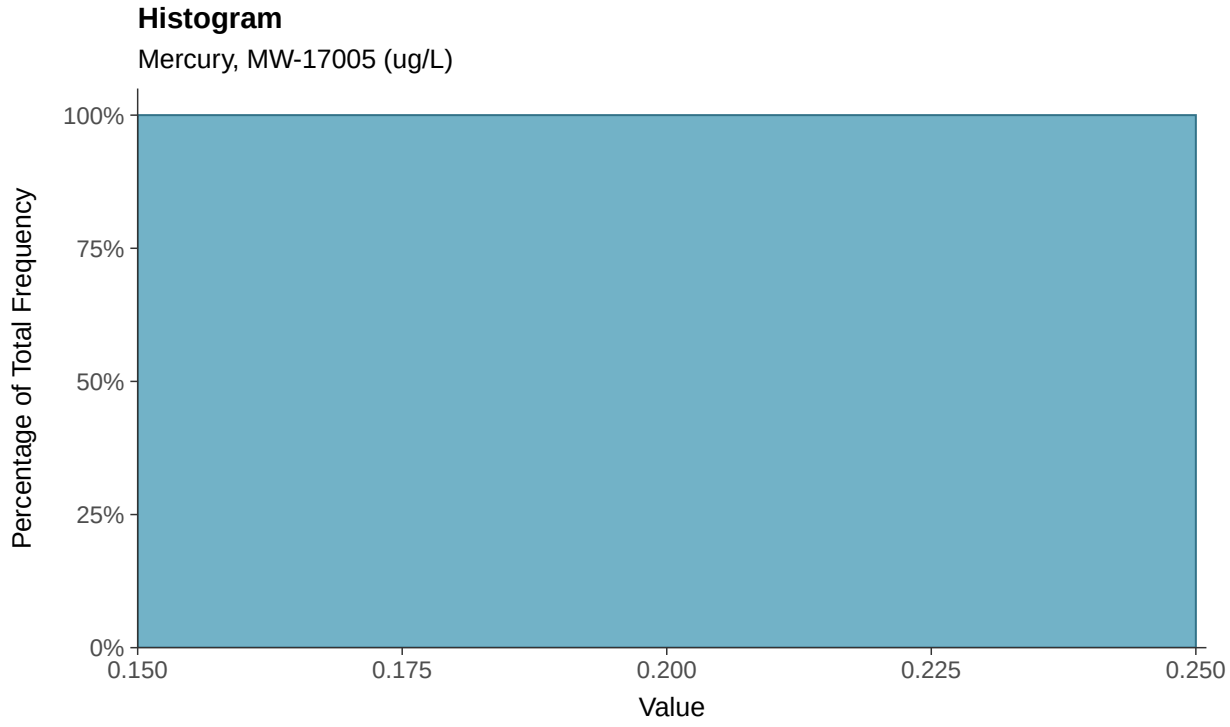
Lithium, MW-17005 (ug/L)



Appendix IV: Mercury, MW-17005

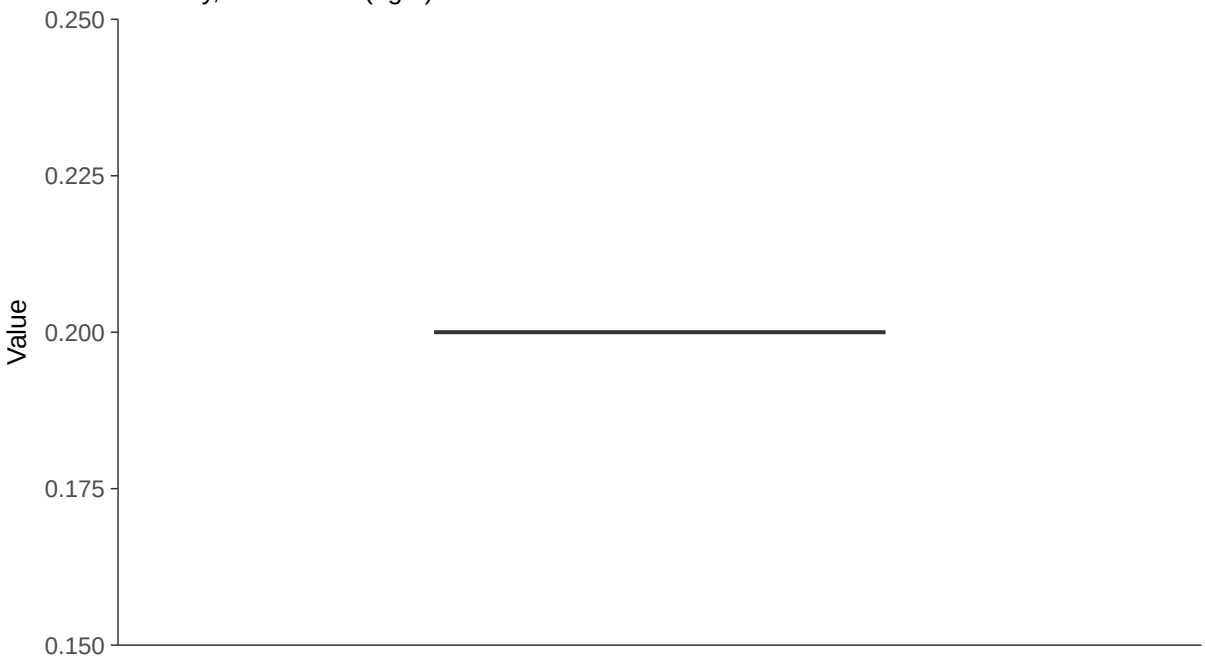
ID: 18_2_118





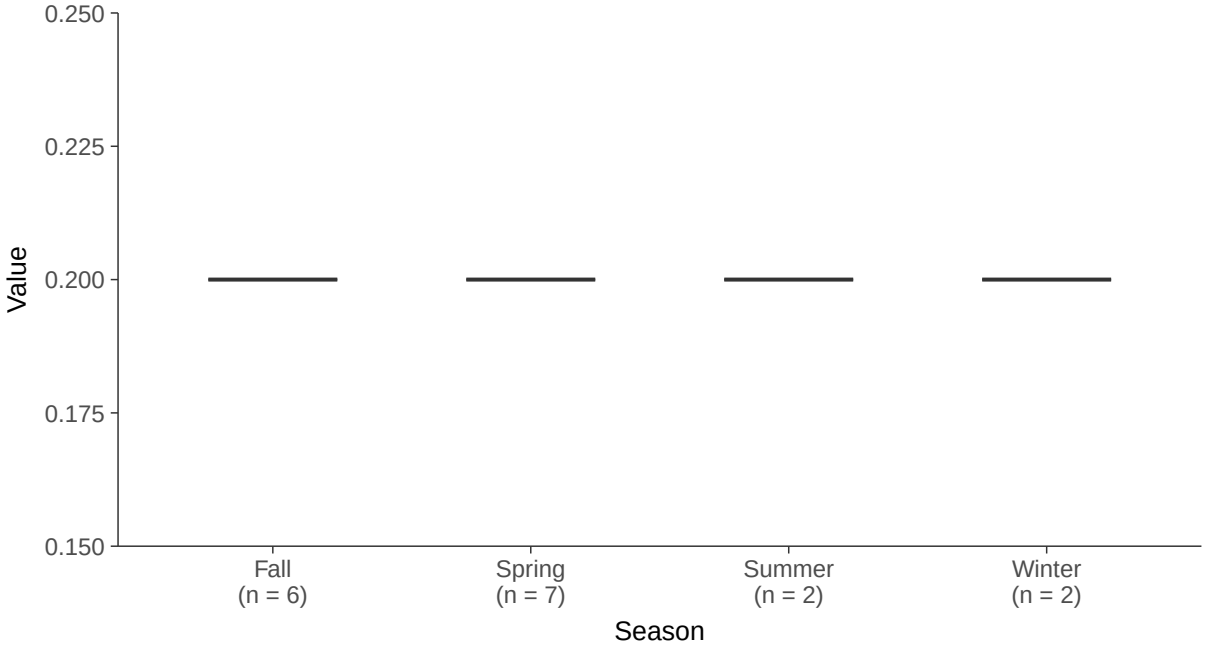
Boxplot

Mercury, MW-17005 (ug/L)



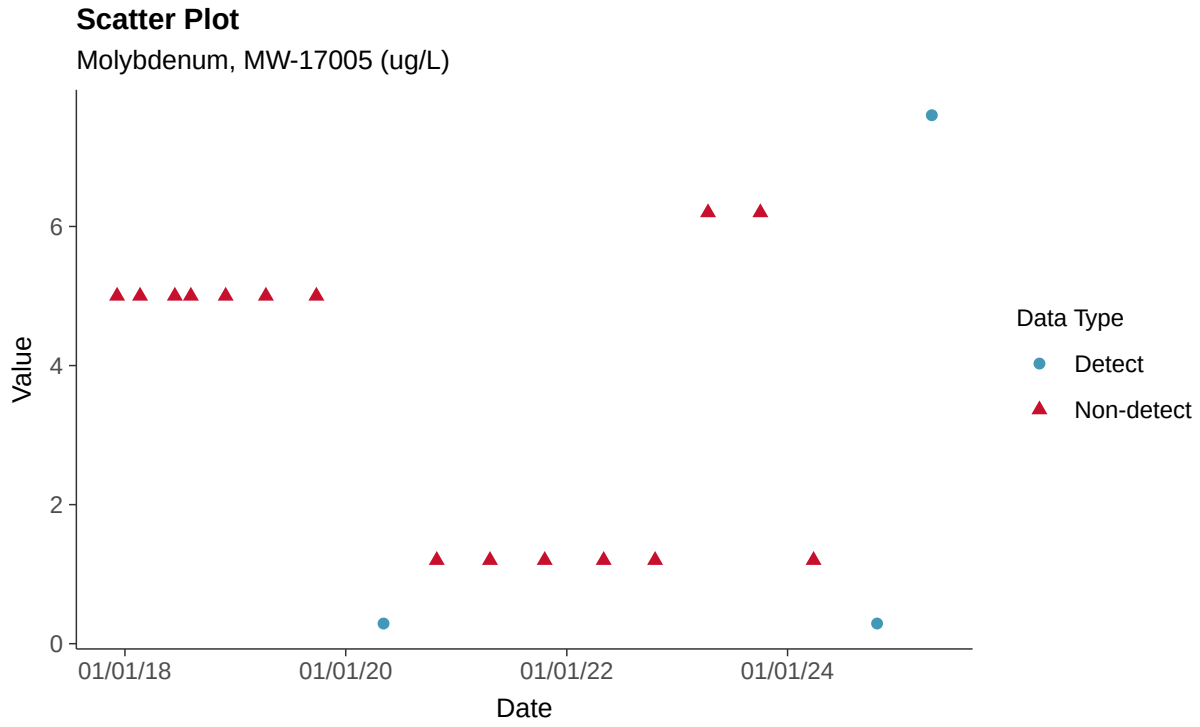
Boxplot by Season

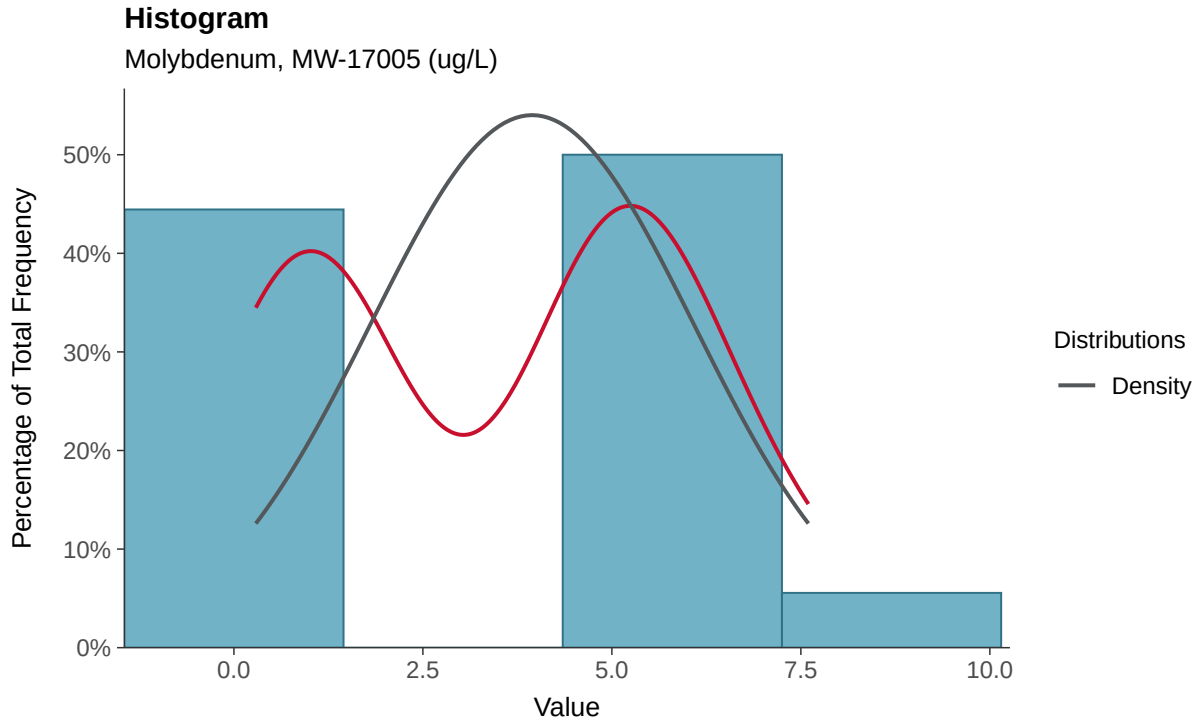
Mercury, MW-17005 (ug/L)



Appendix IV: Molybdenum, MW-17005

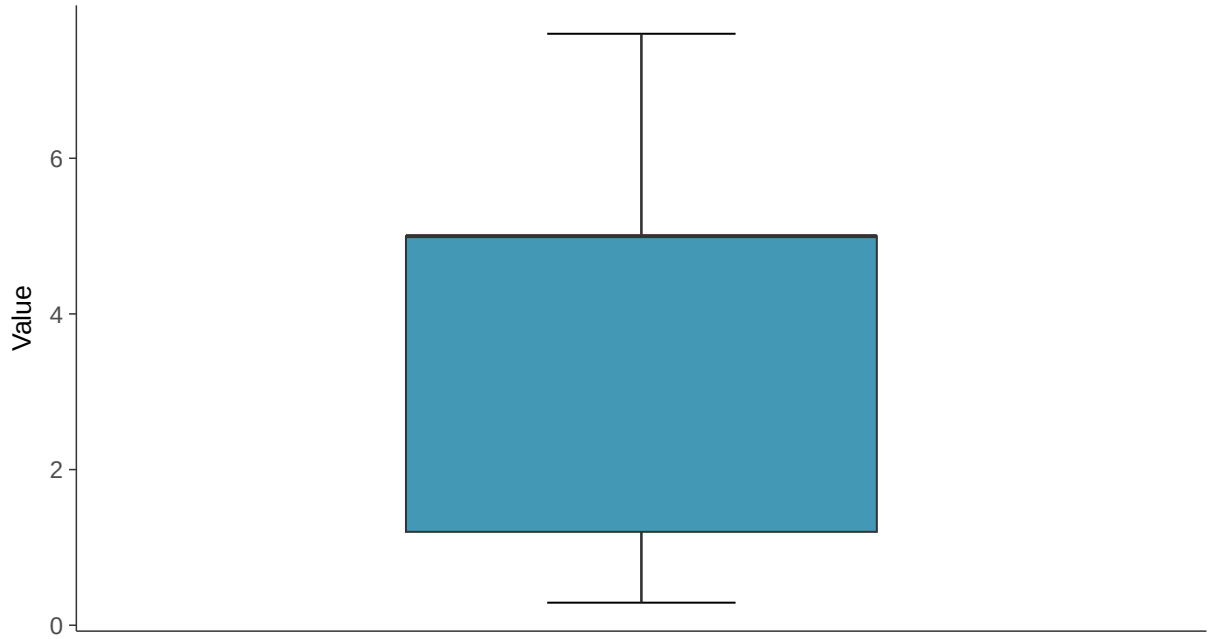
ID: 18_2_119





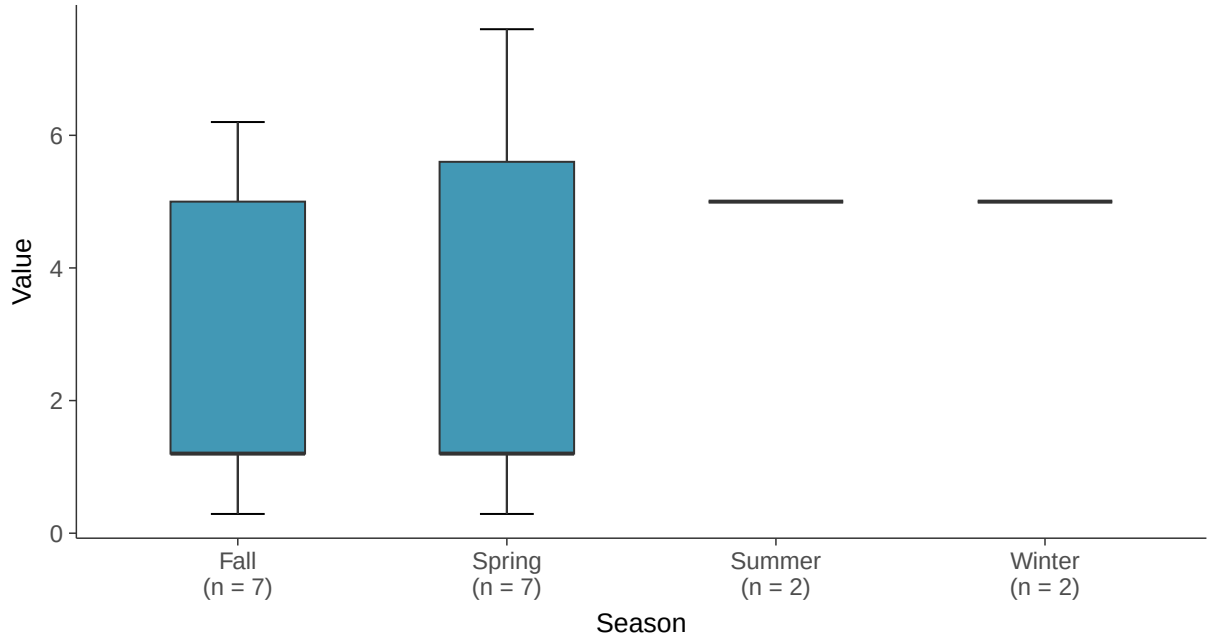
Boxplot

Molybdenum, MW-17005 (ug/L)



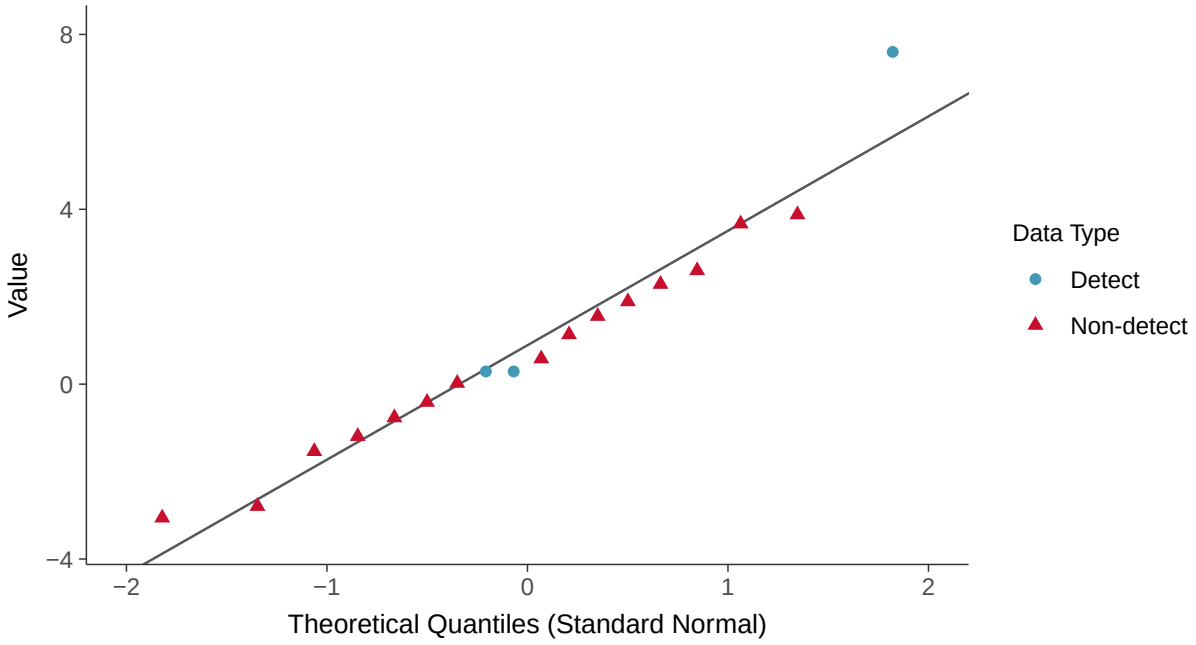
Boxplot by Season

Molybdenum, MW-17005 (ug/L)



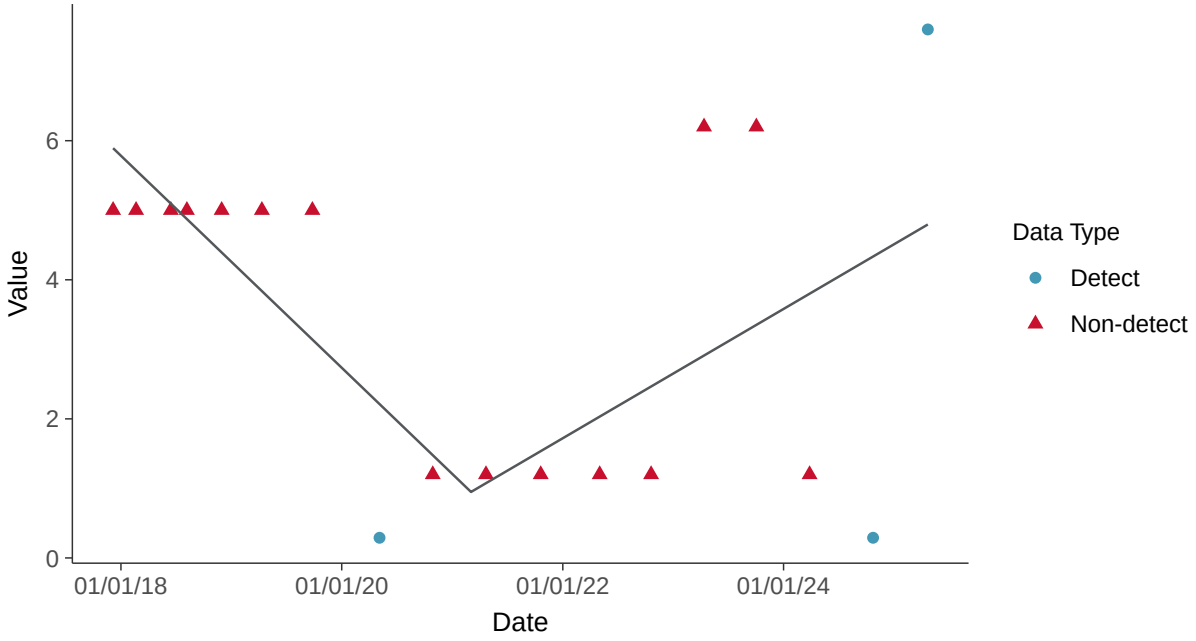
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17005 (ug/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-17005 (ug/L)

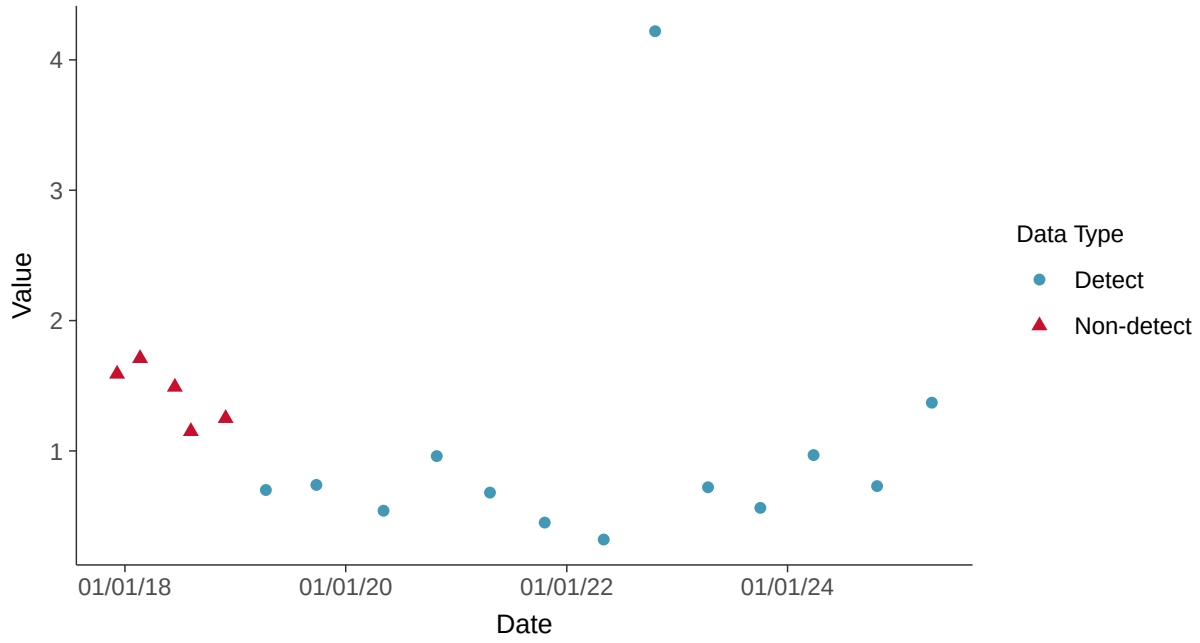


Appendix IV: Radium-226+228, MW-17005

ID: 18_2_125

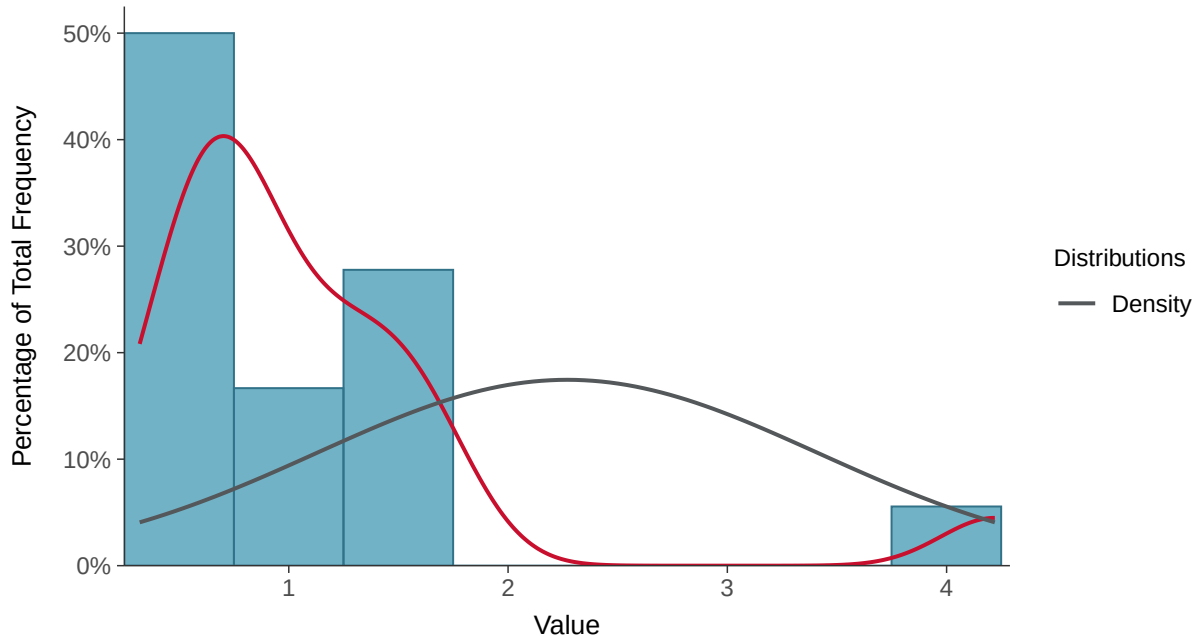
Scatter Plot

Radium-226+228, MW-17005 (pCi/L)



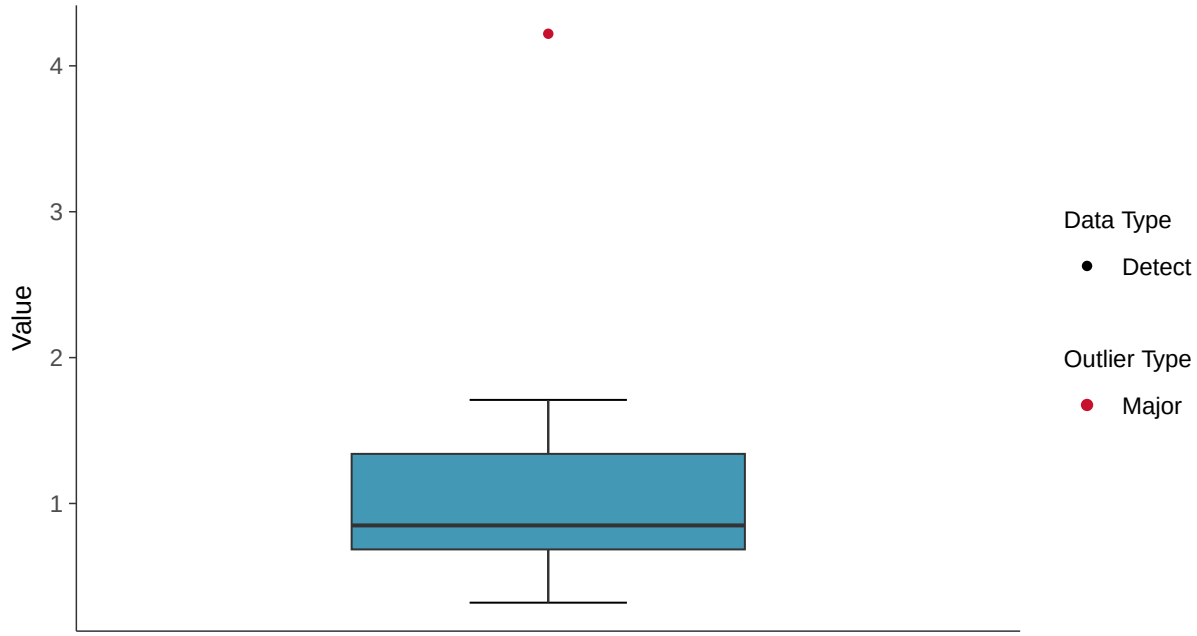
Histogram

Radium-226+228, MW-17005 (pCi/L)



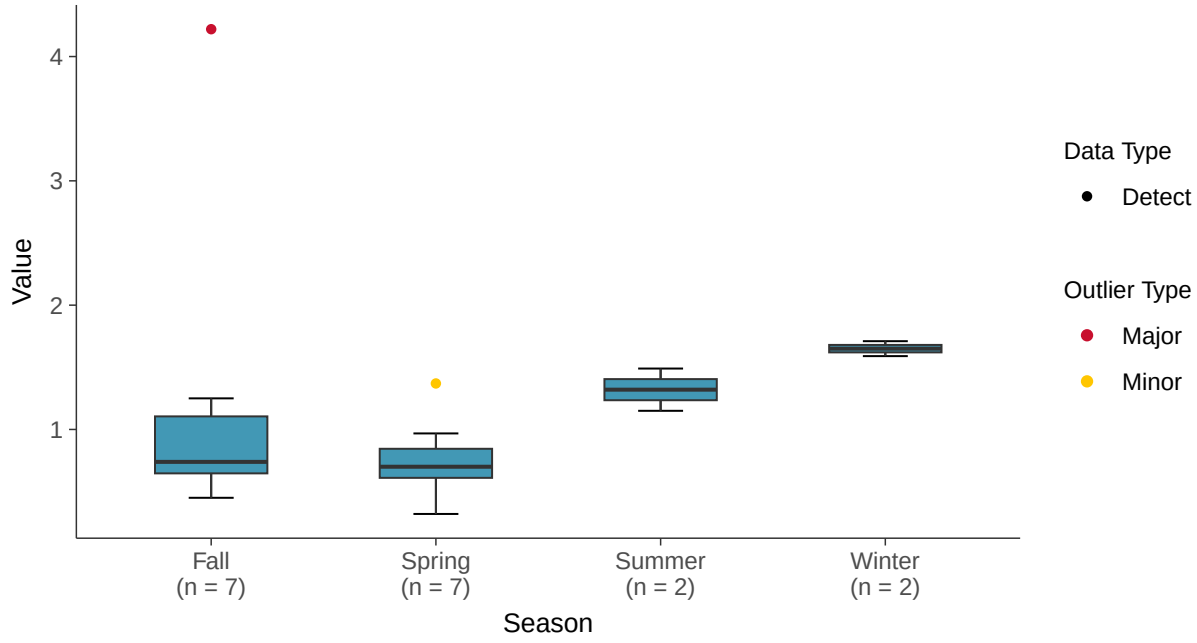
Boxplot

Radium-226+228, MW-17005 (pCi/L)



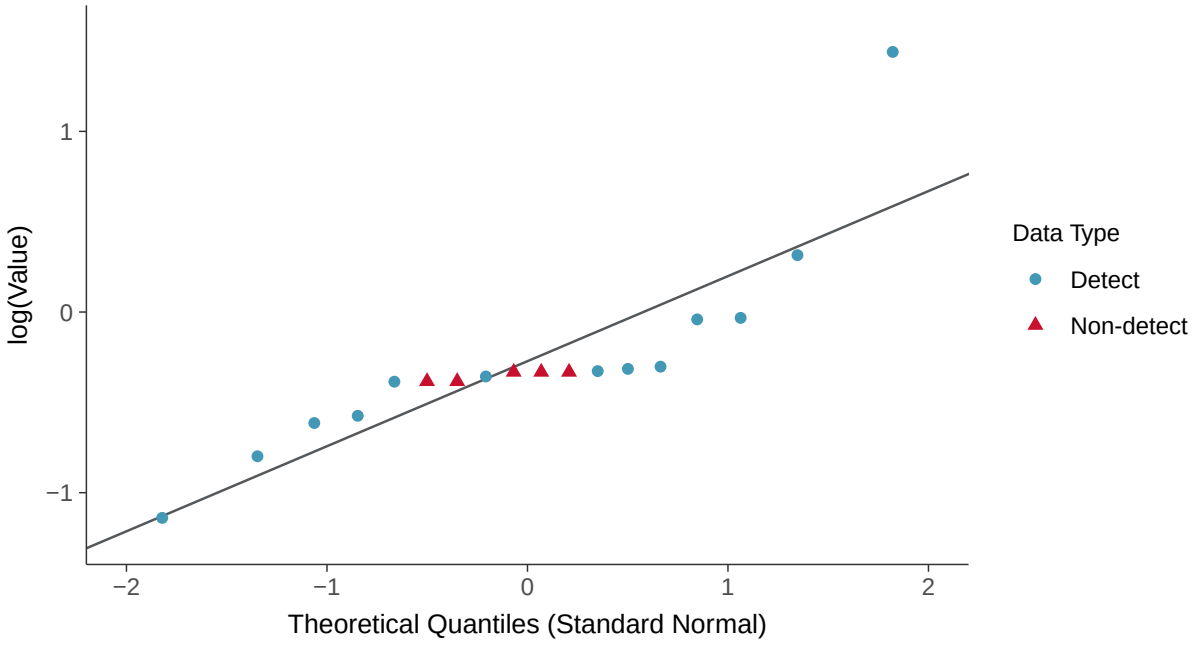
Boxplot by Season

Radium-226+228, MW-17005 (pCi/L)



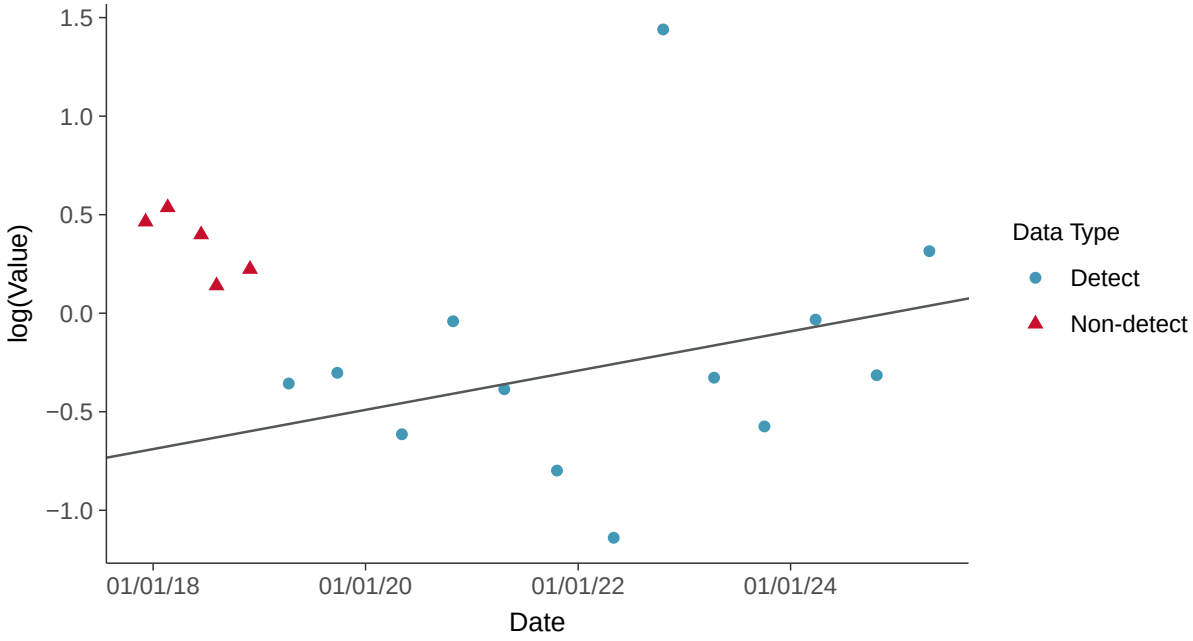
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-17005 (pCi/L)



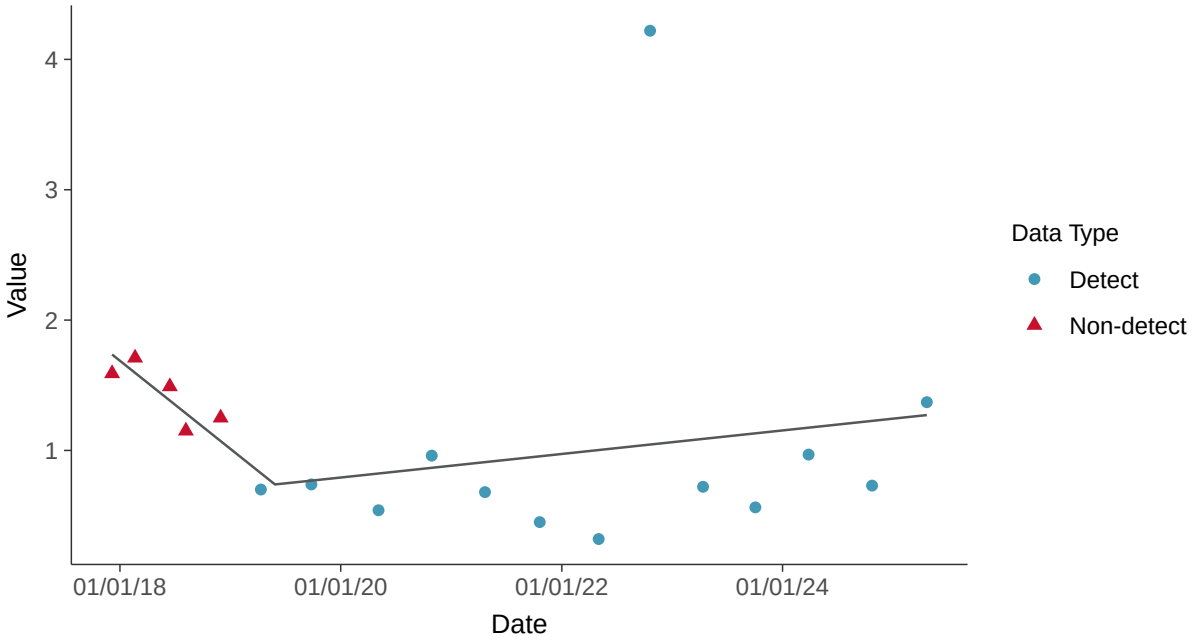
Trend Regression: Lognormal MLE

Radium-226+228, MW-17005 (pCi/L)



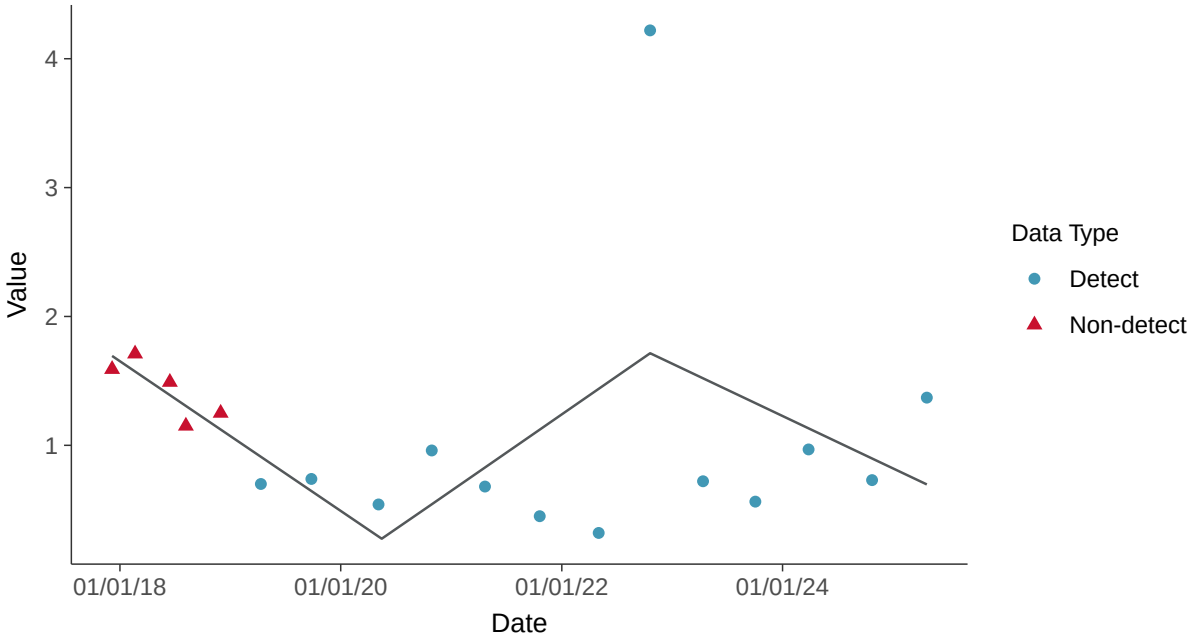
Trend Regression: Piecewise Linear-Linear

Radium-226+228, MW-17005 (pCi/L)



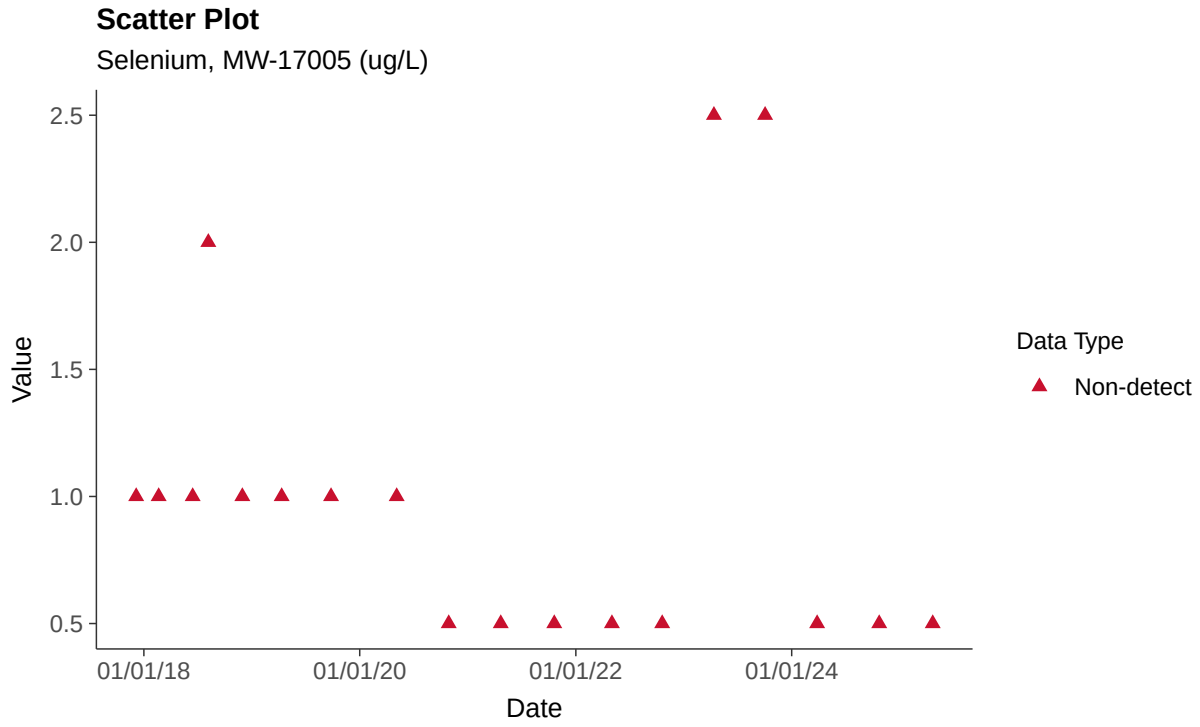
Trend Regression: Piecewise Linear-Linear-Linear

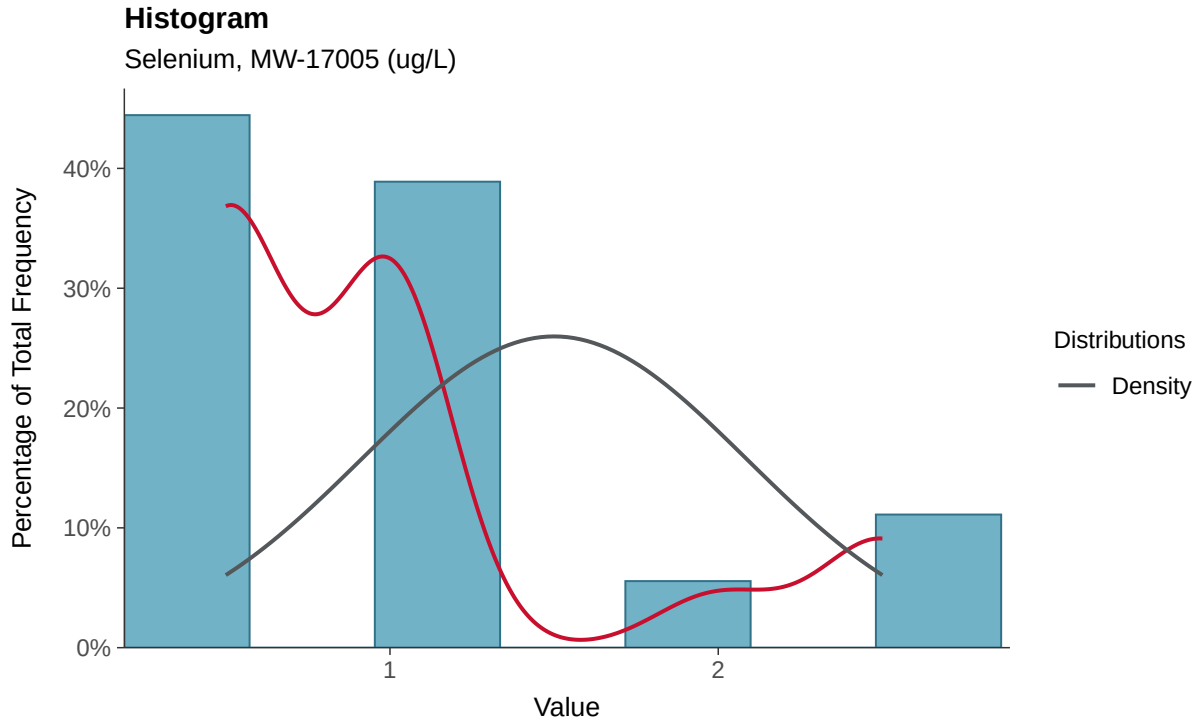
Radium-226+228, MW-17005 (pCi/L)



Appendix IV: Selenium, MW-17005

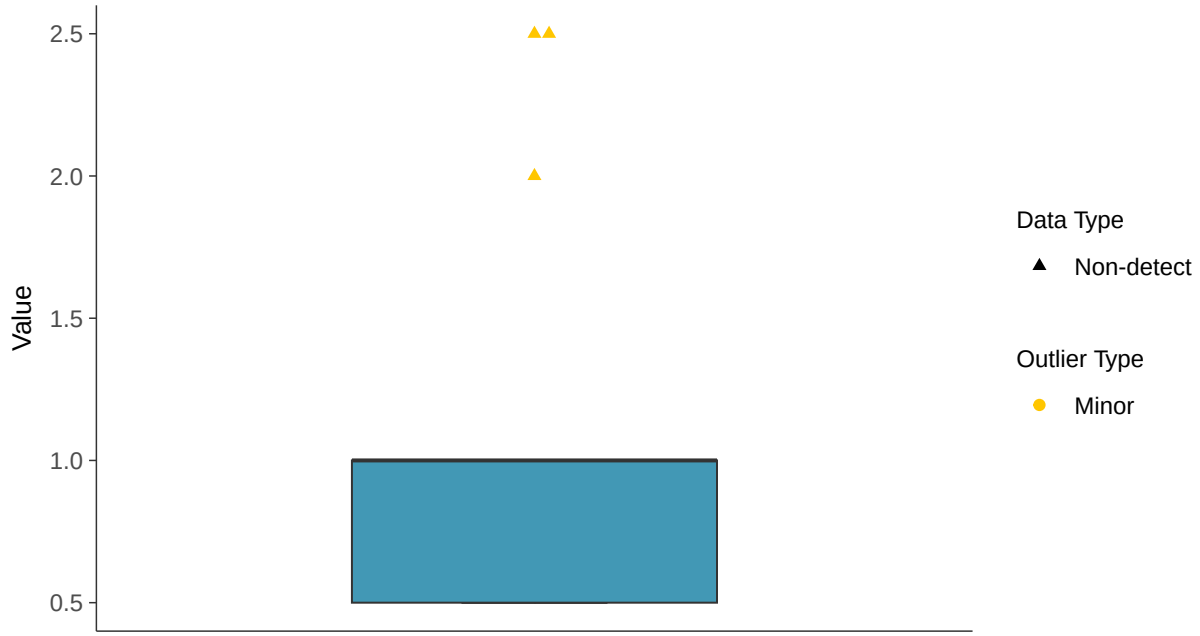
ID: 18_2_127





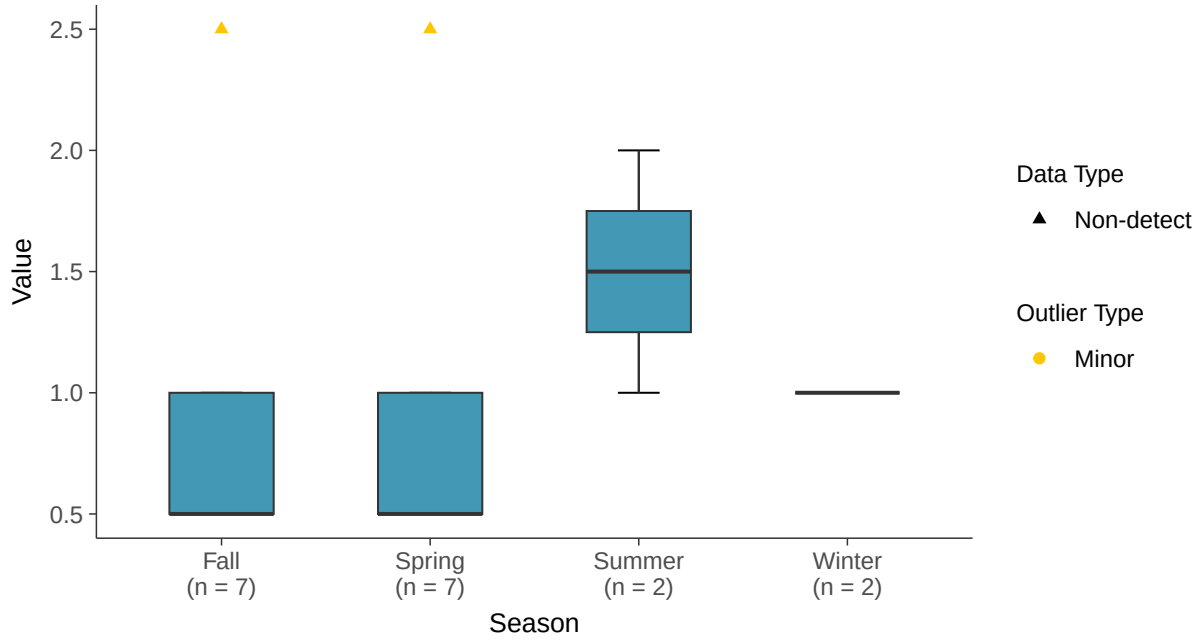
Boxplot

Selenium, MW-17005 (ug/L)



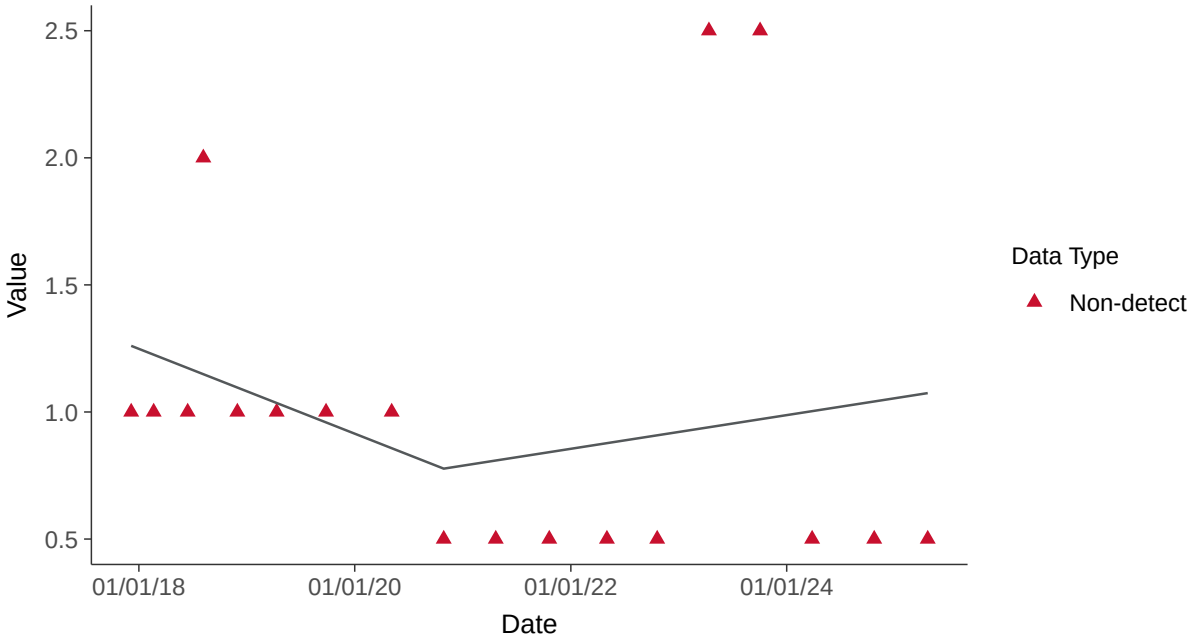
Boxplot by Season

Selenium, MW-17005 (ug/L)



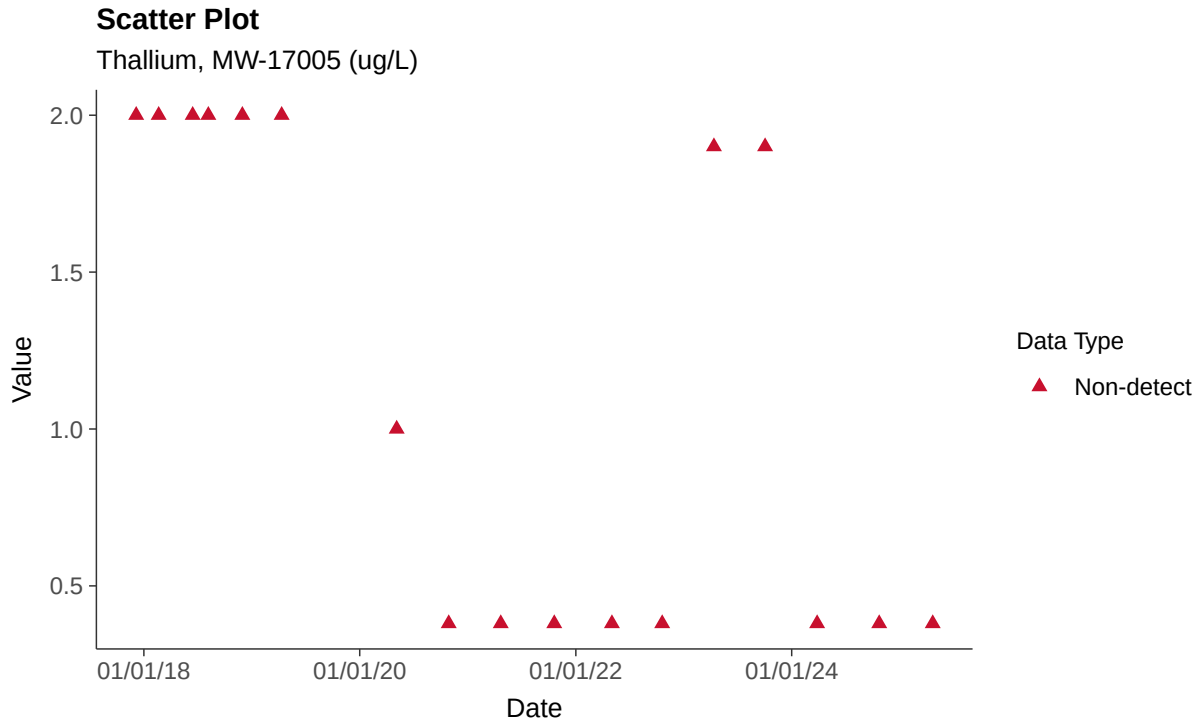
Trend Regression: Piecewise Linear-Linear

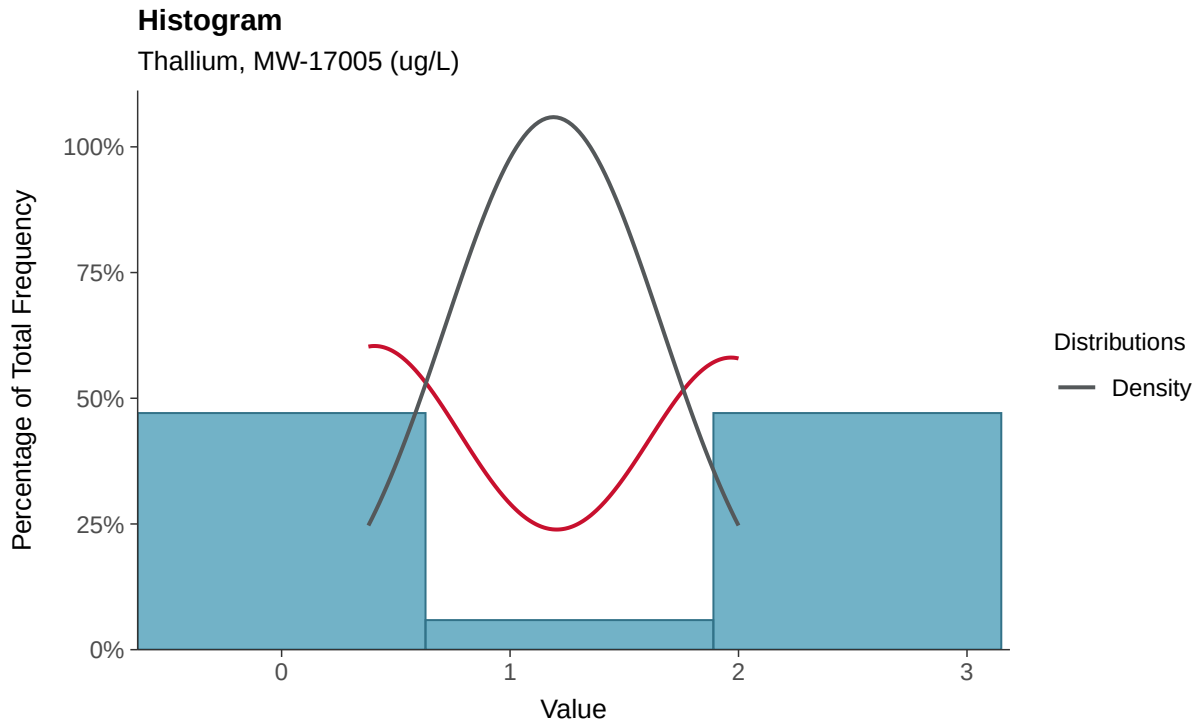
Selenium, MW-17005 (ug/L)



Appendix IV: Thallium, MW-17005

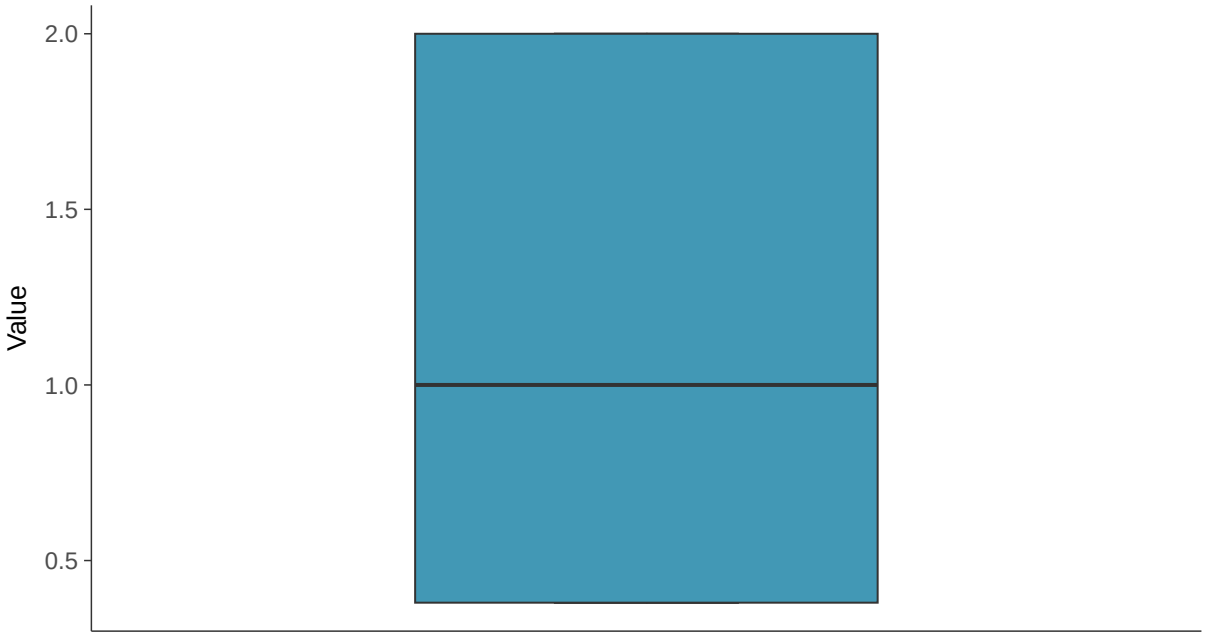
ID: 18_2_131





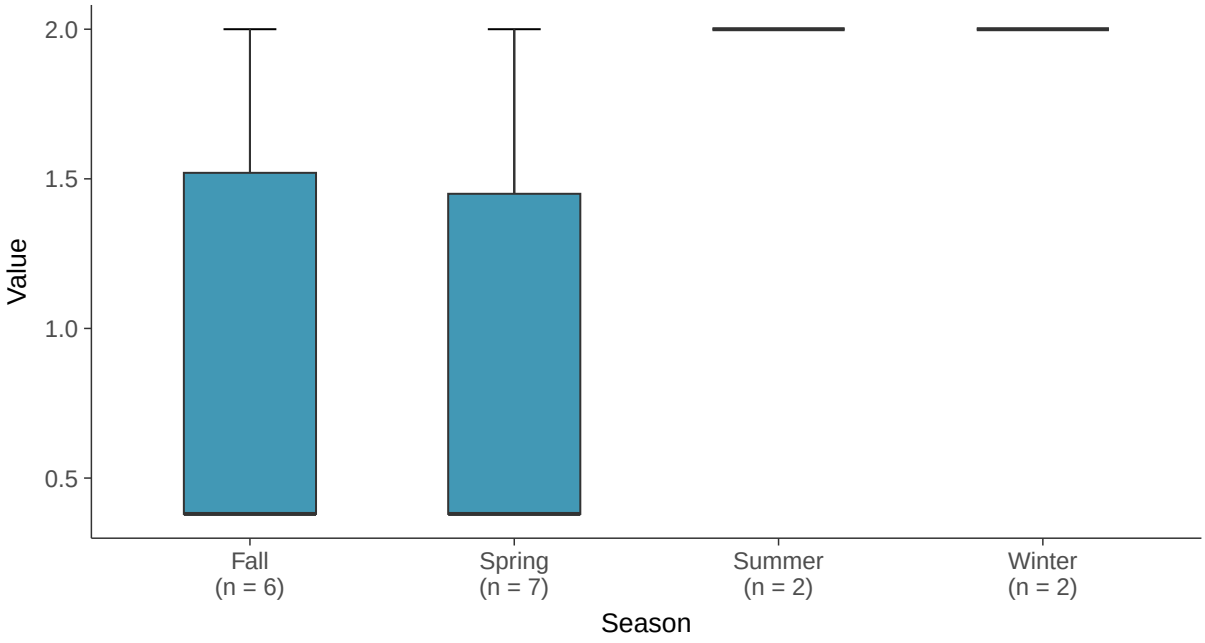
Boxplot

Thallium, MW-17005 (ug/L)



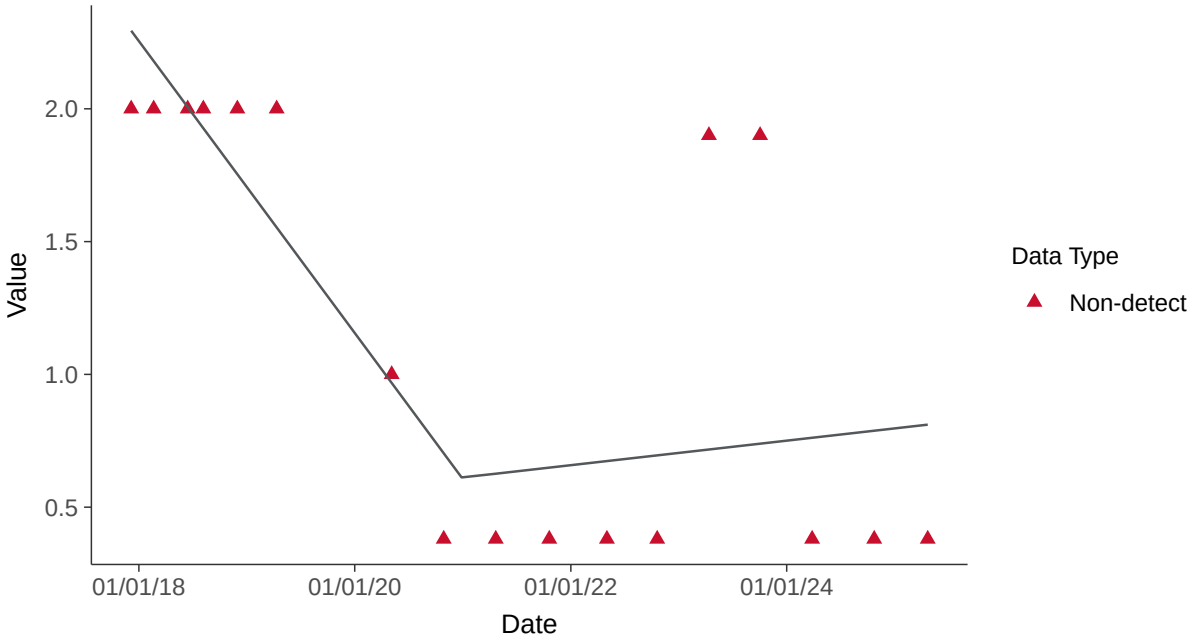
Boxplot by Season

Thallium, MW-17005 (ug/L)



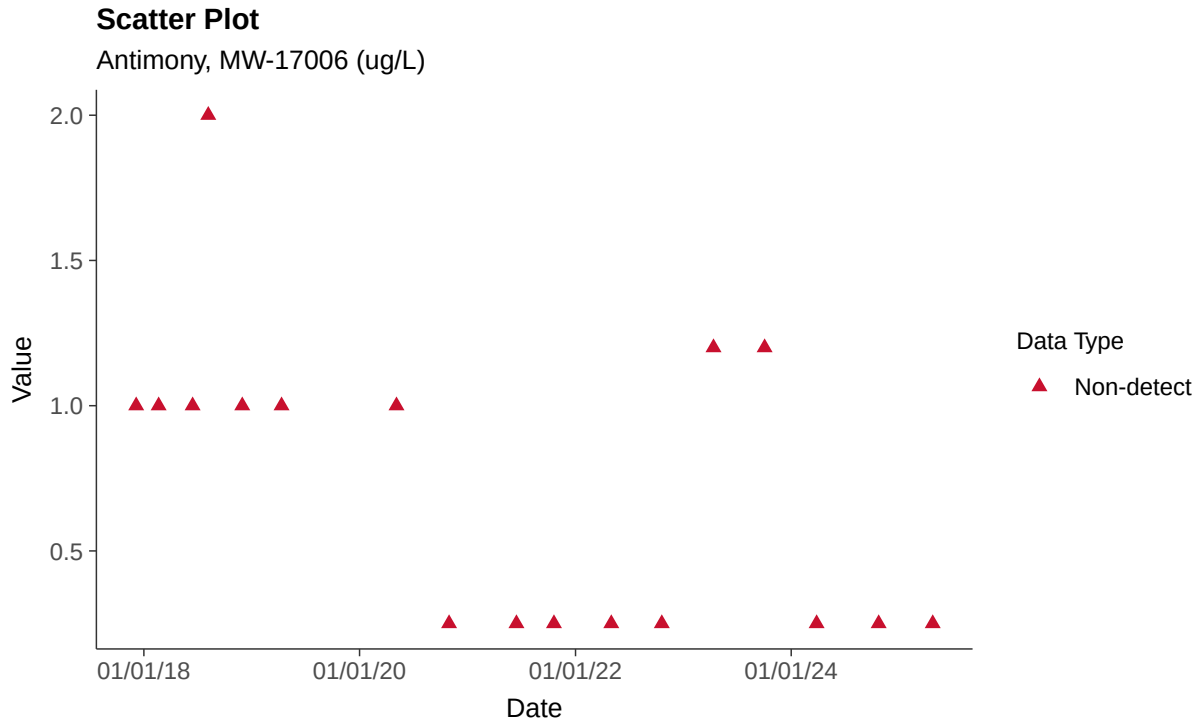
Trend Regression: Piecewise Linear-Linear

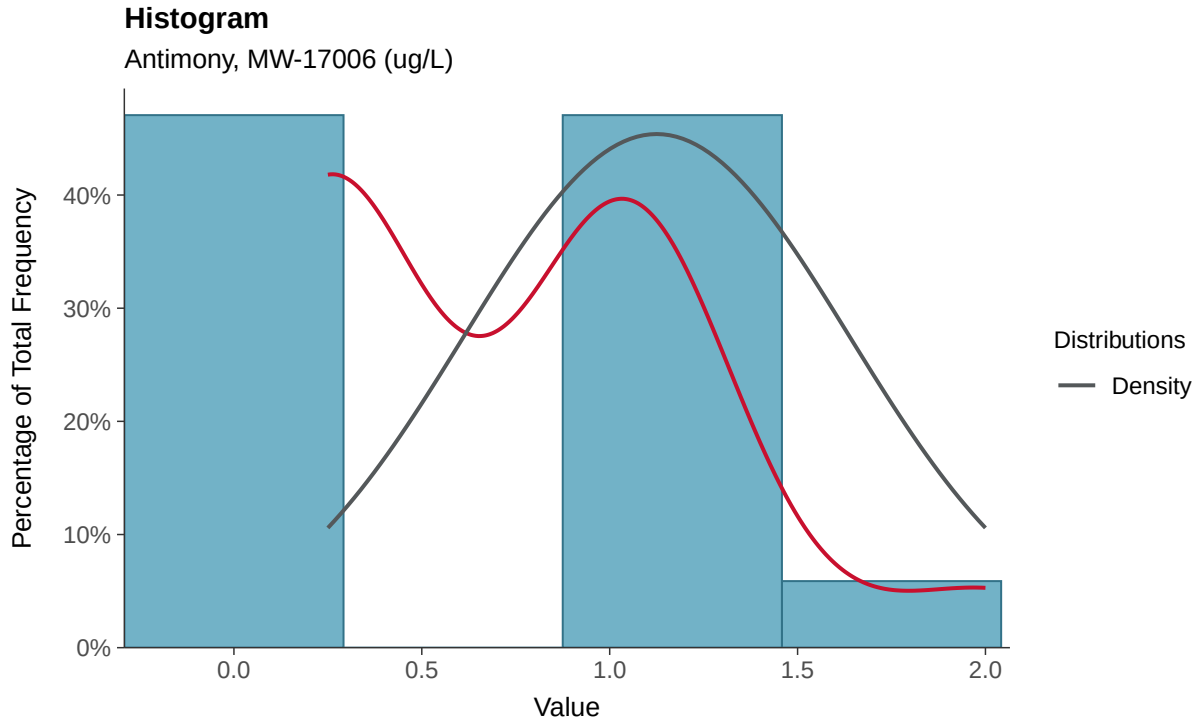
Thallium, MW-17005 (ug/L)



Appendix IV: Antimony, MW-17006

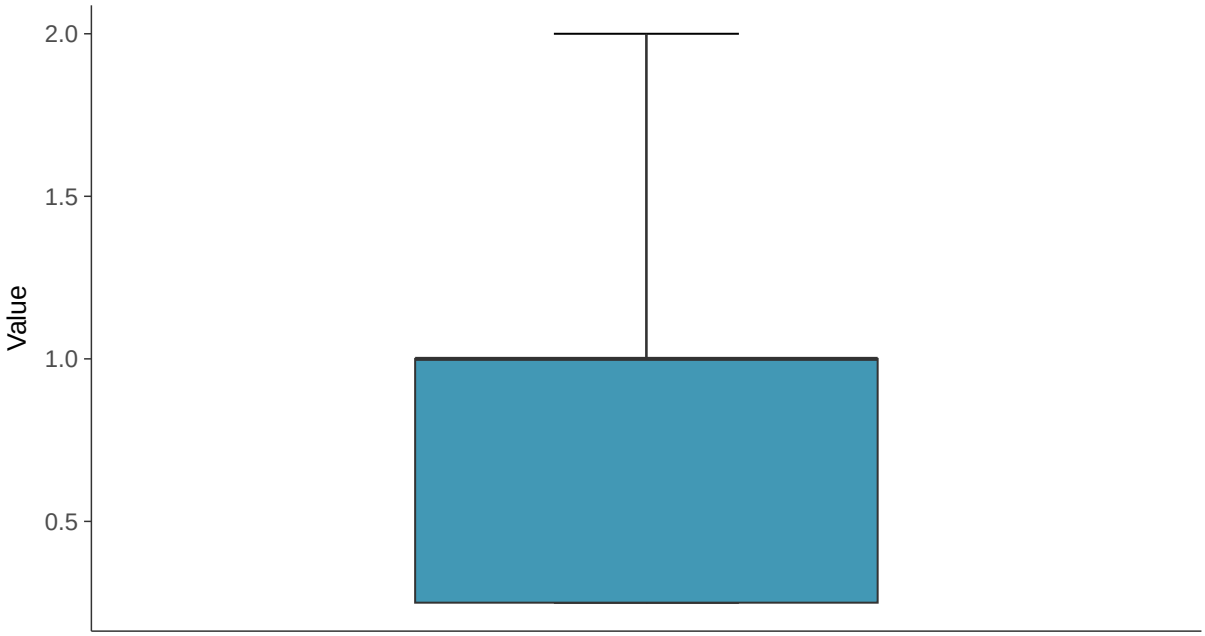
ID: 19_2_101





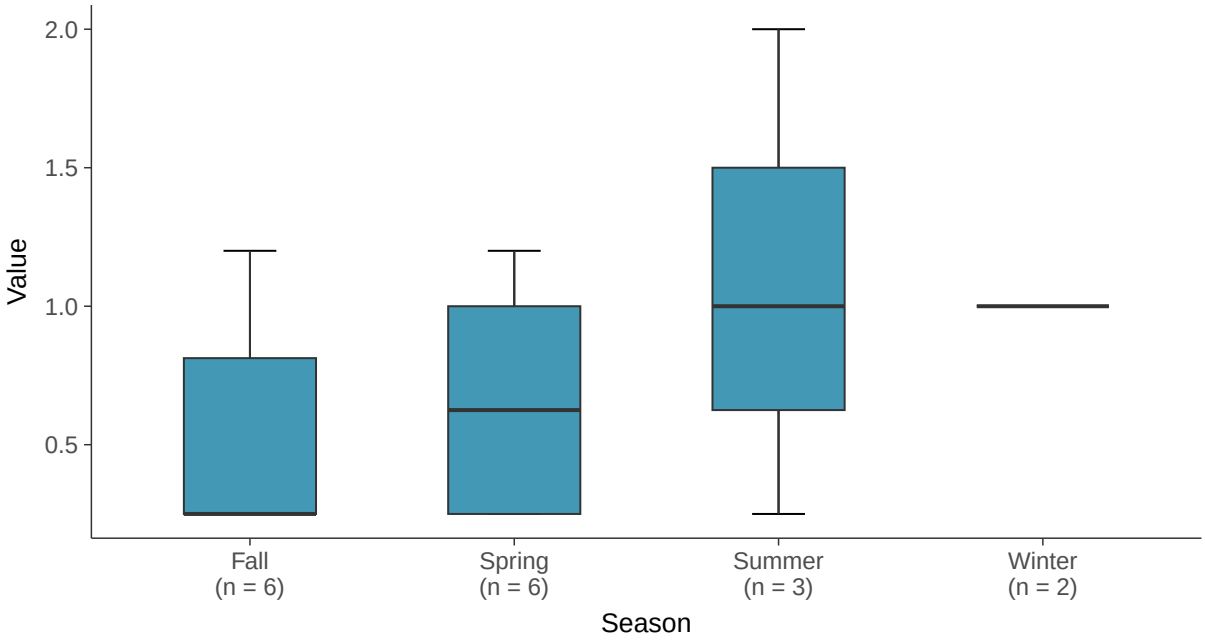
Boxplot

Antimony, MW-17006 (ug/L)



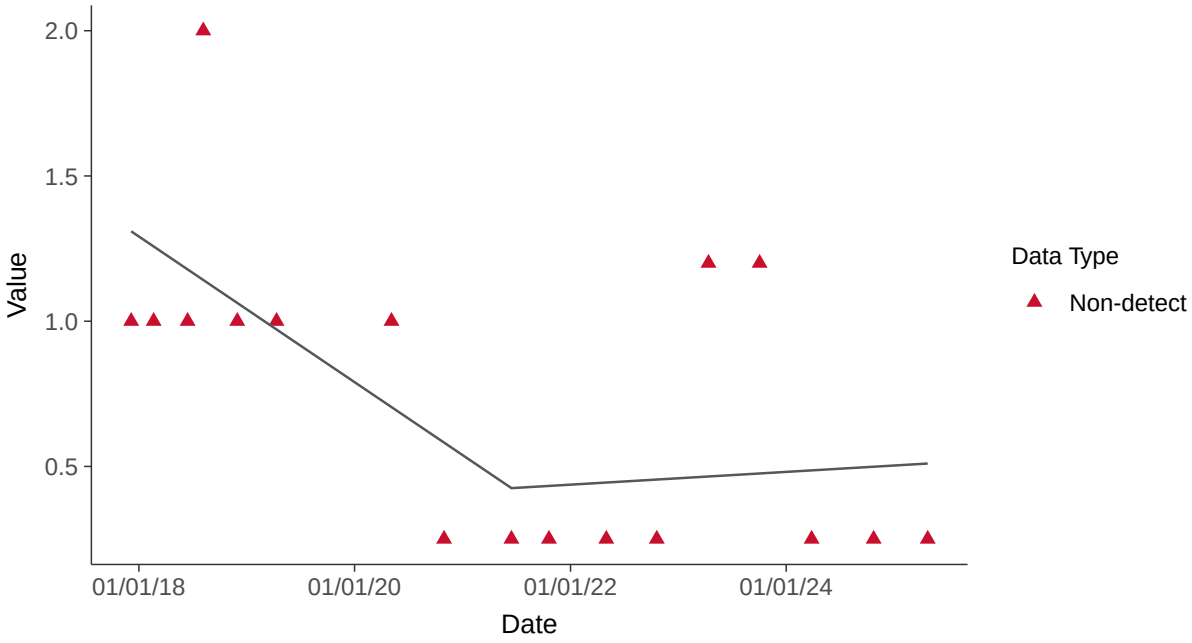
Boxplot by Season

Antimony, MW-17006 (ug/L)



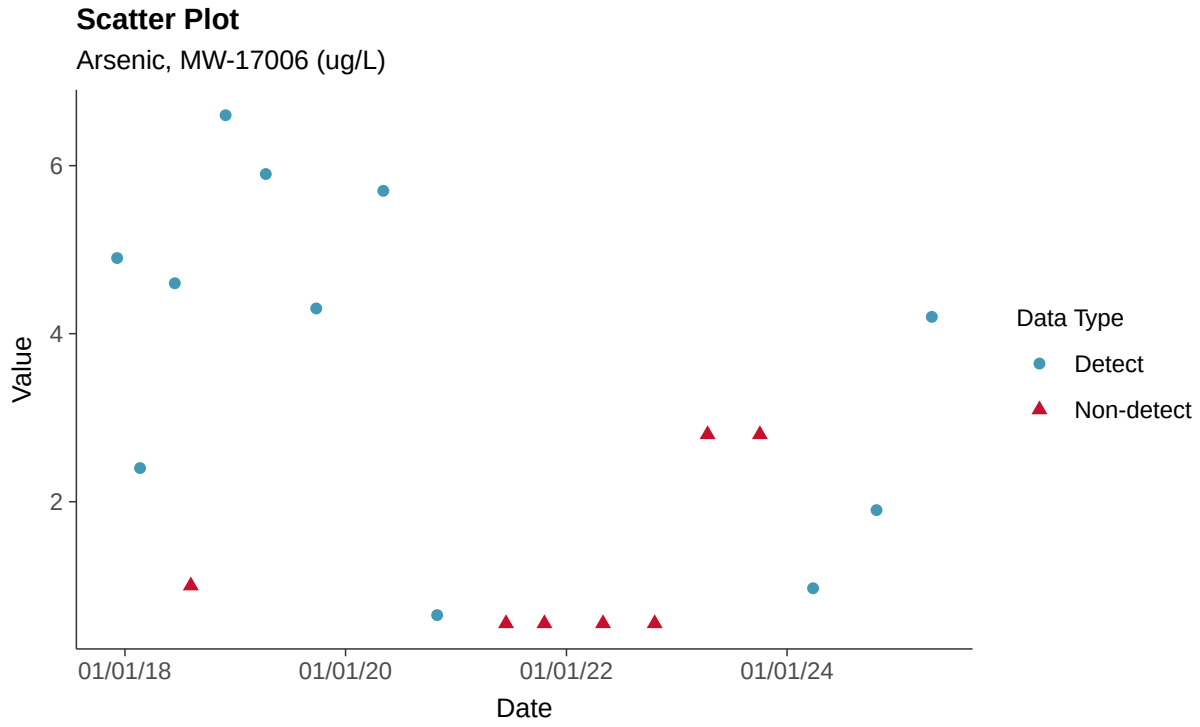
Trend Regression: Piecewise Linear-Linear

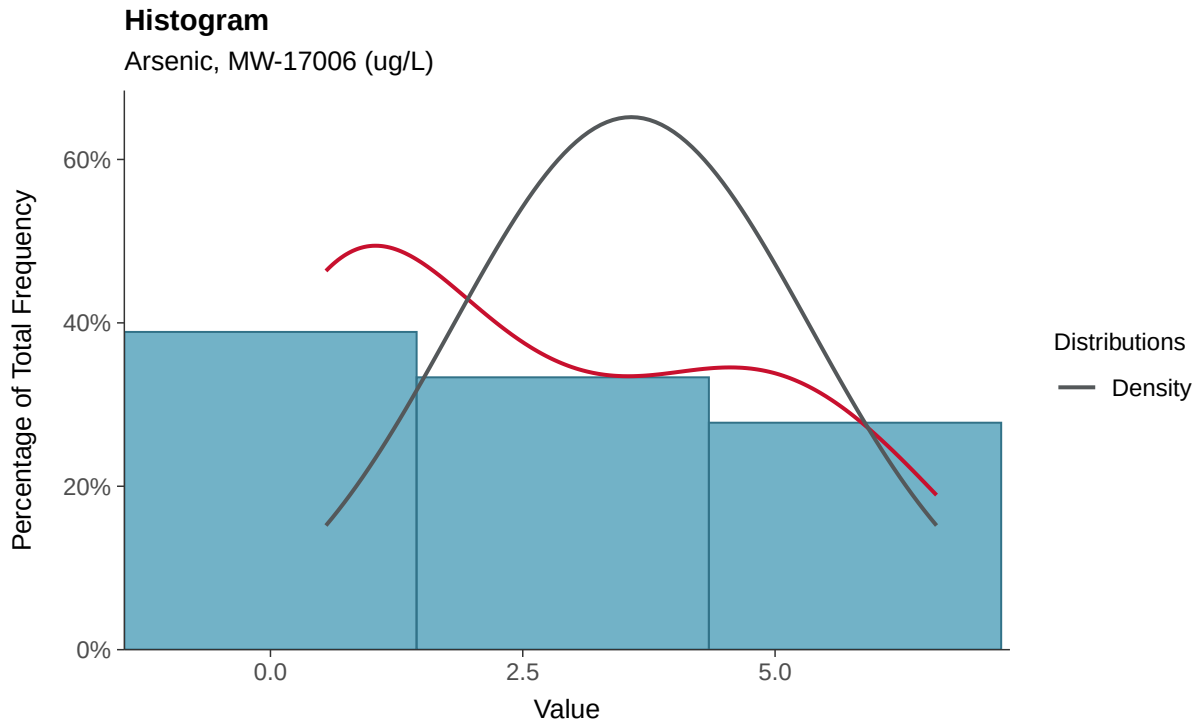
Antimony, MW-17006 (ug/L)



Appendix IV: Arsenic, MW-17006

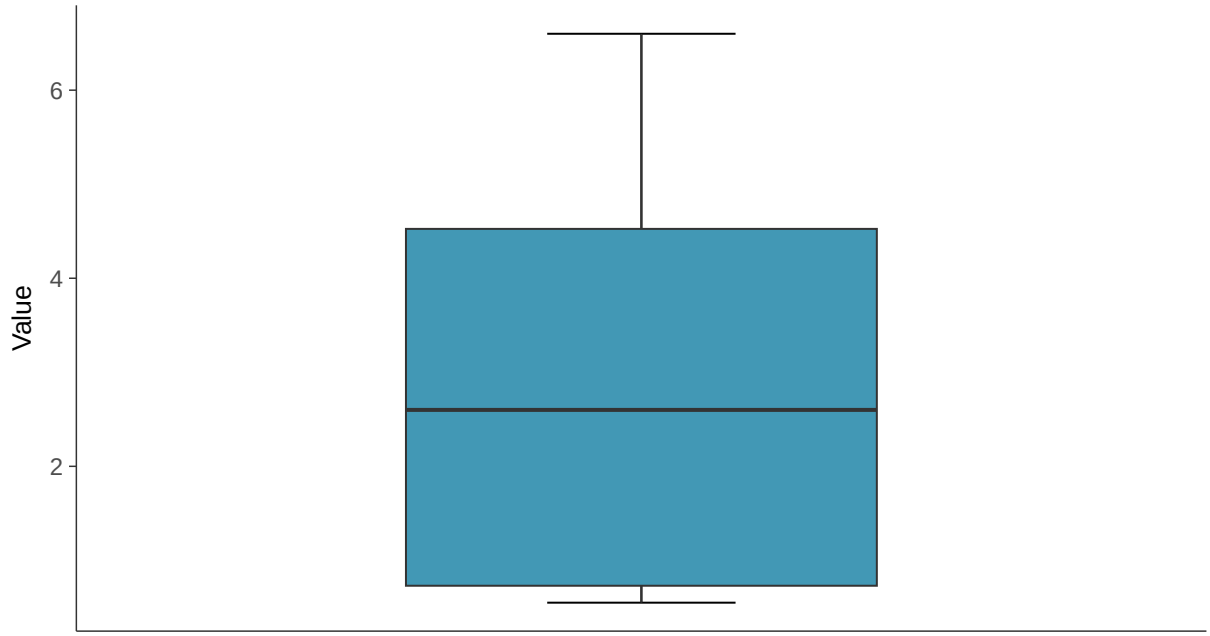
ID: 19_2_102





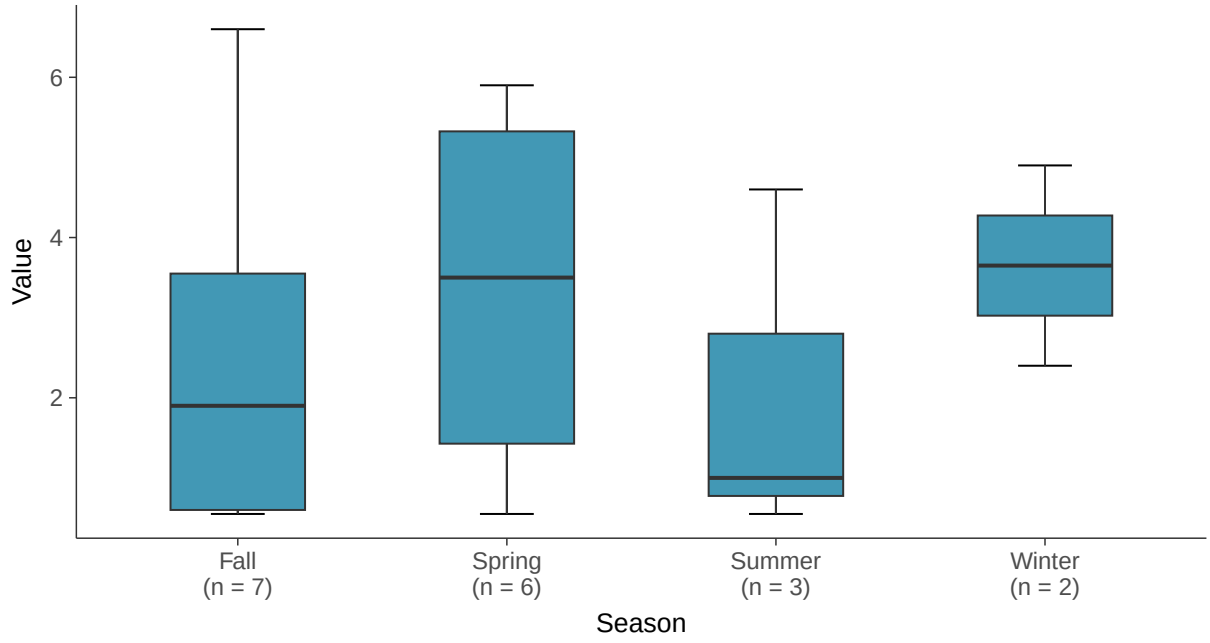
Boxplot

Arsenic, MW-17006 (ug/L)



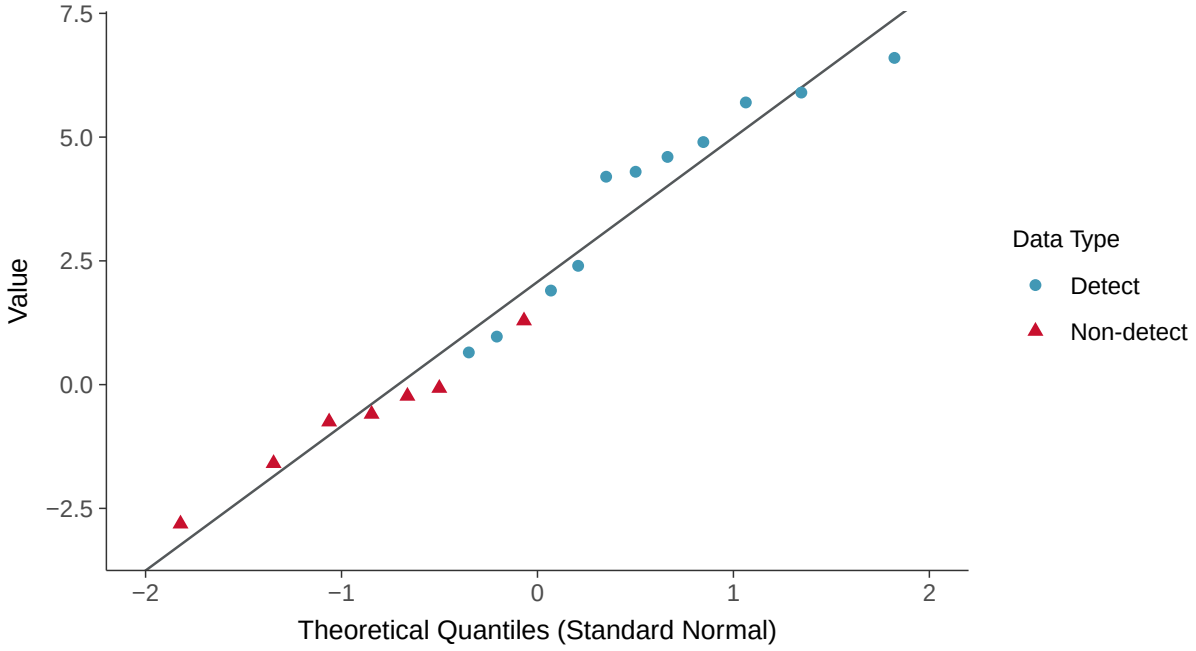
Boxplot by Season

Arsenic, MW-17006 (ug/L)



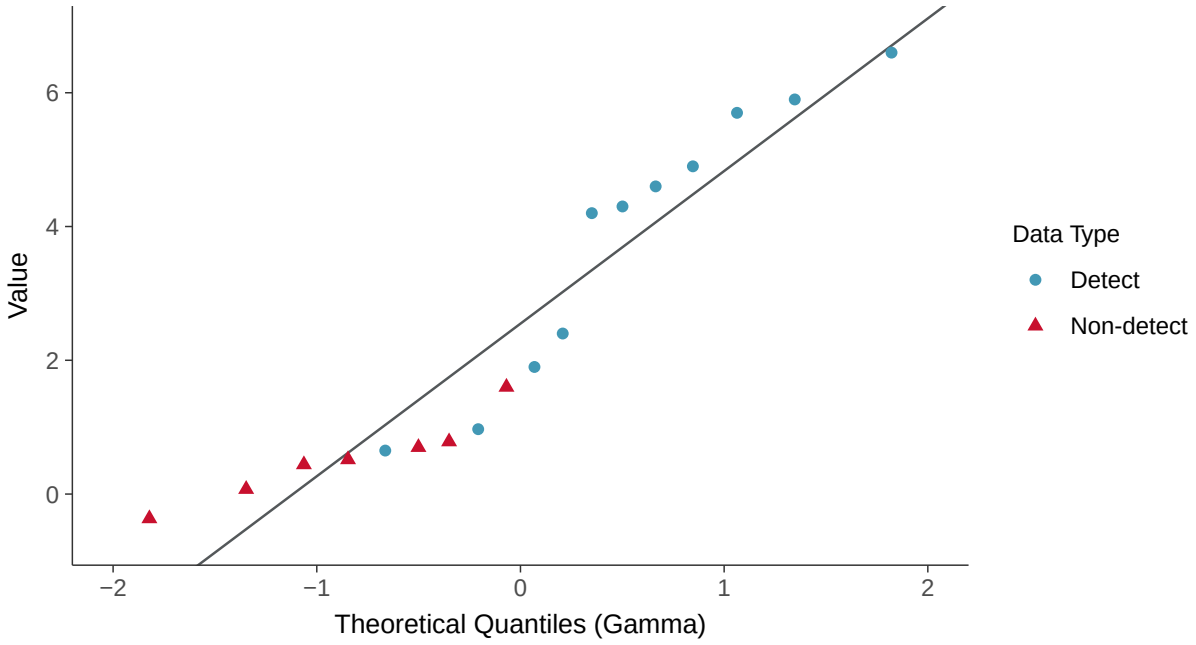
Normal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-17006 (ug/L)



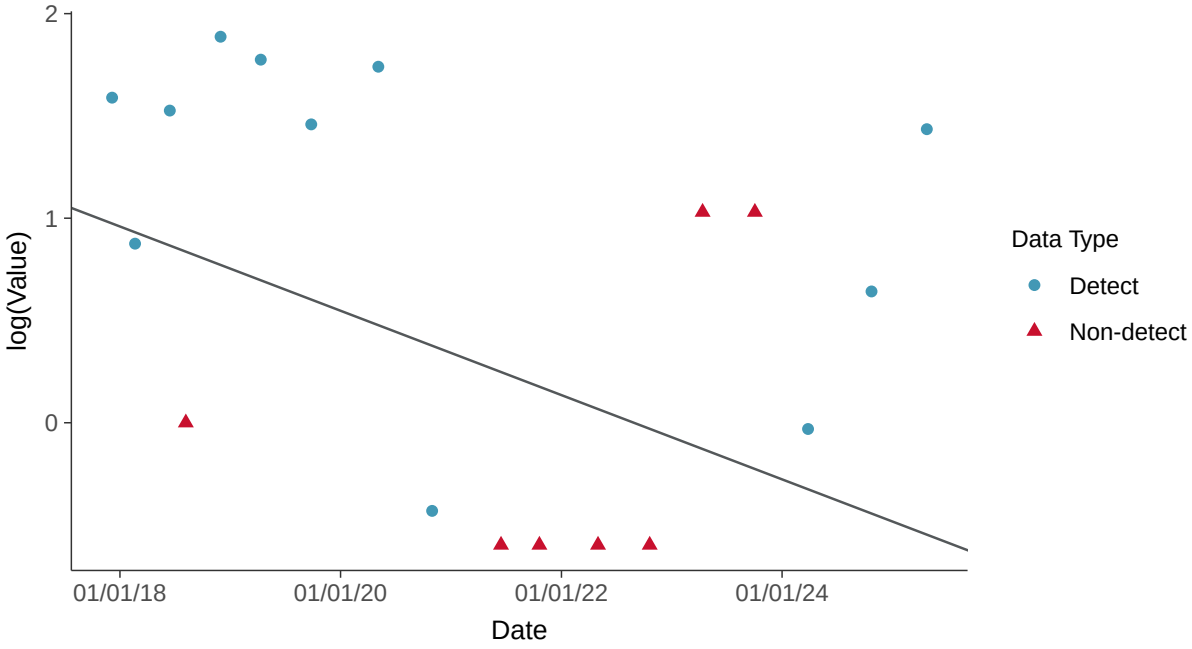
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-17006 (ug/L)



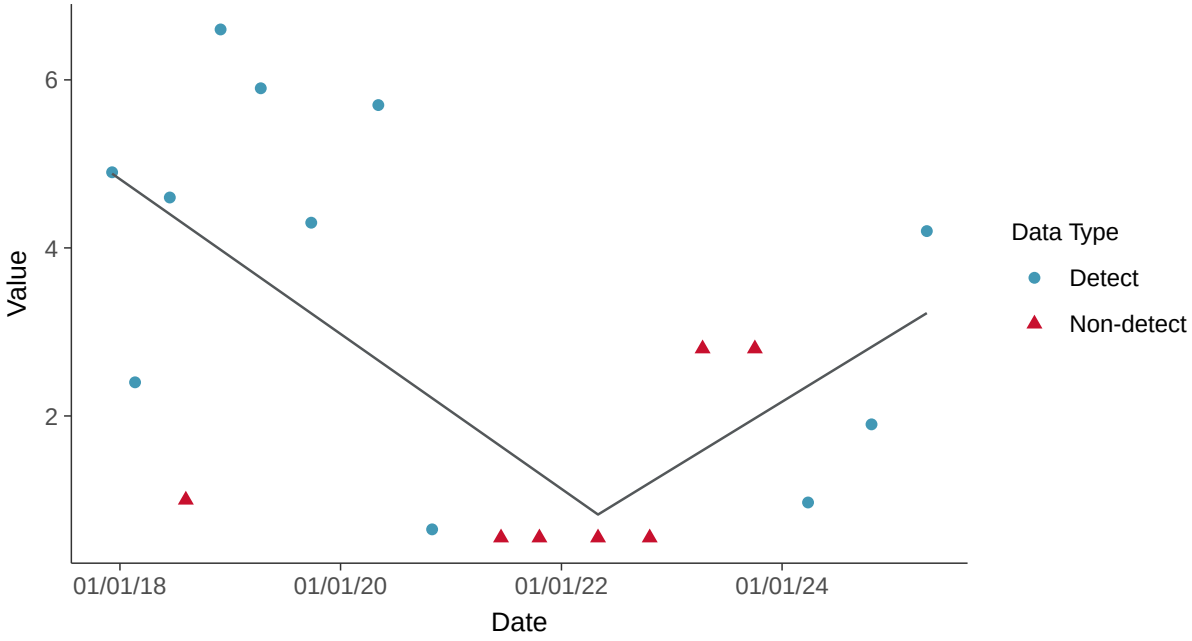
Trend Regression: Lognormal MLE

Arsenic, MW-17006 (ug/L)



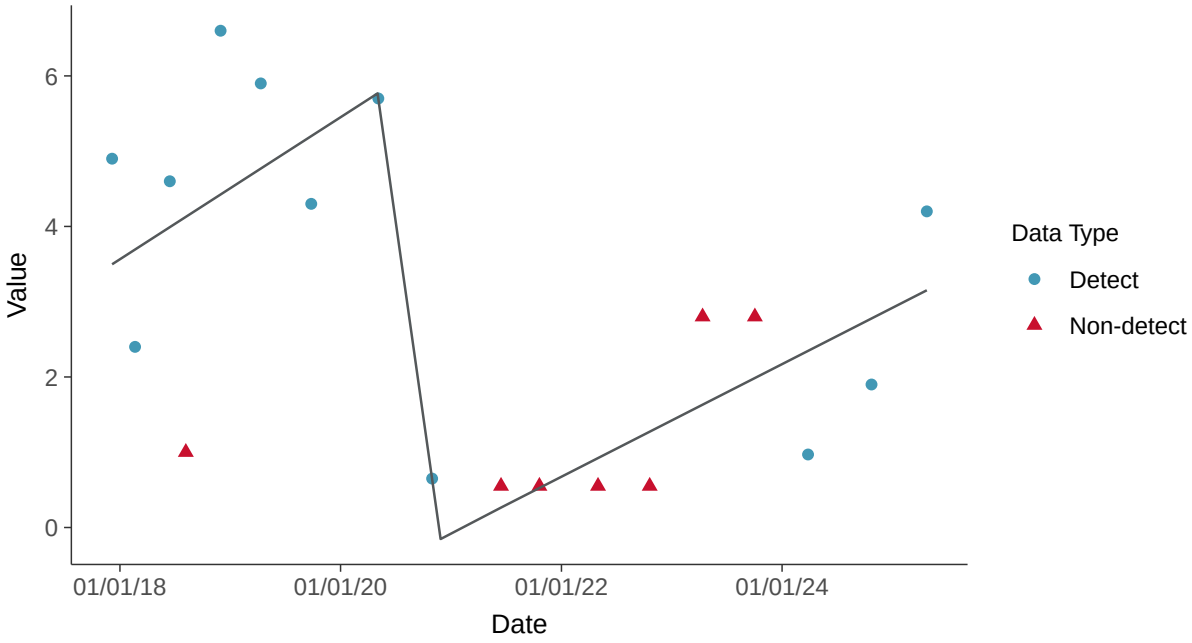
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-17006 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-17006 (ug/L)

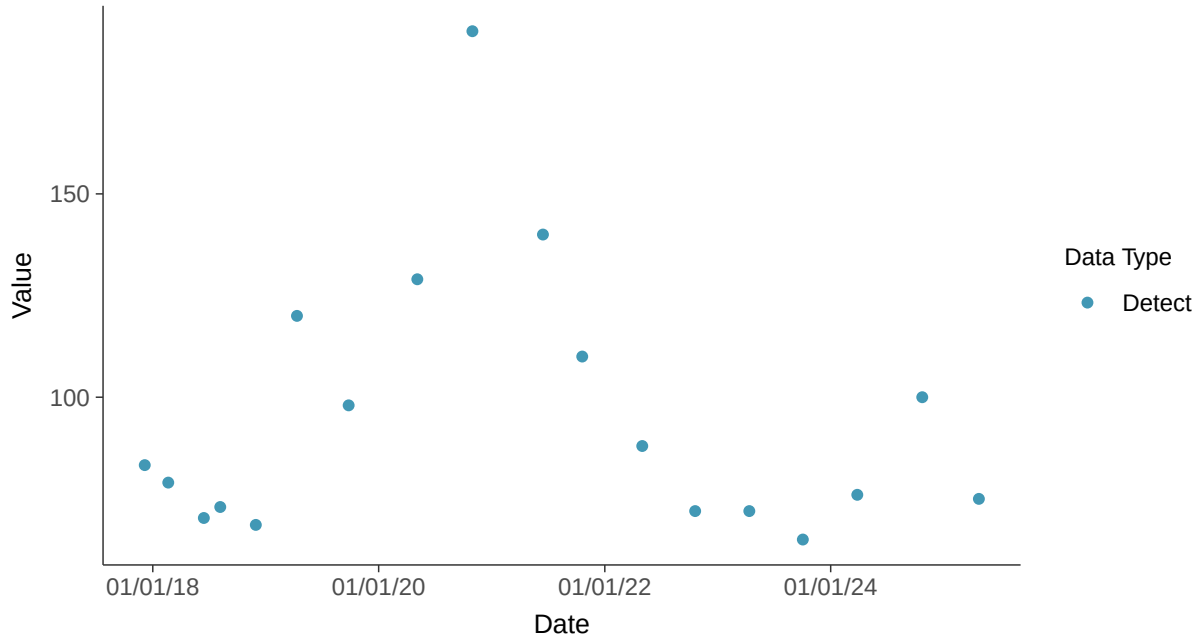


Appendix IV: Barium, MW-17006

ID: 19_2_103

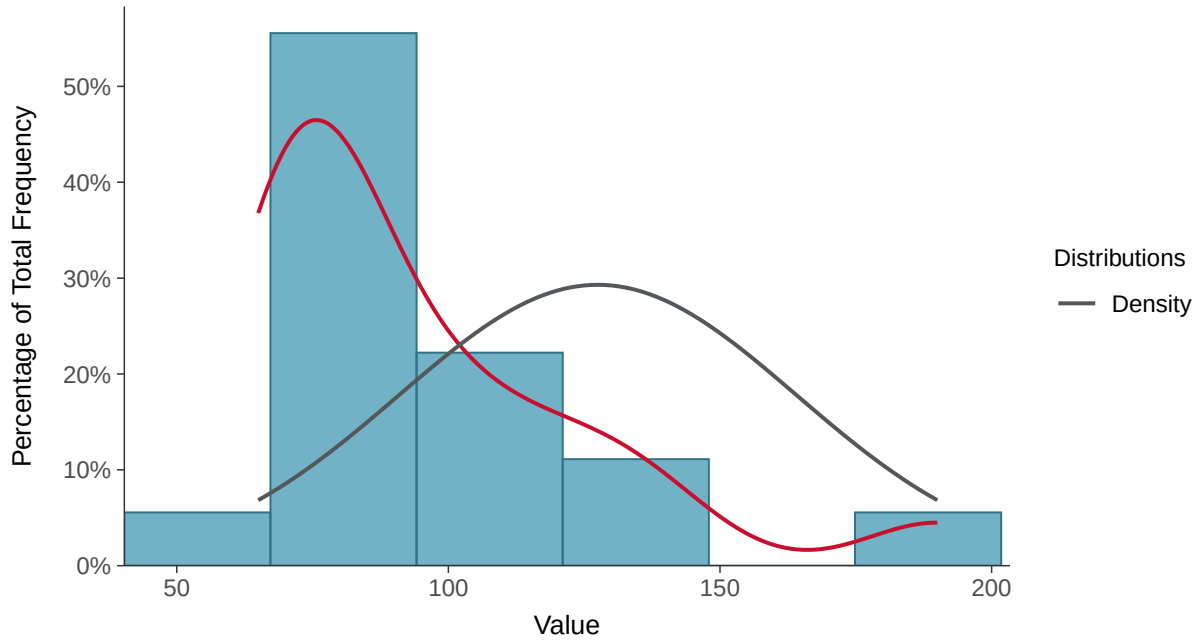
Scatter Plot

Barium, MW-17006 (ug/L)



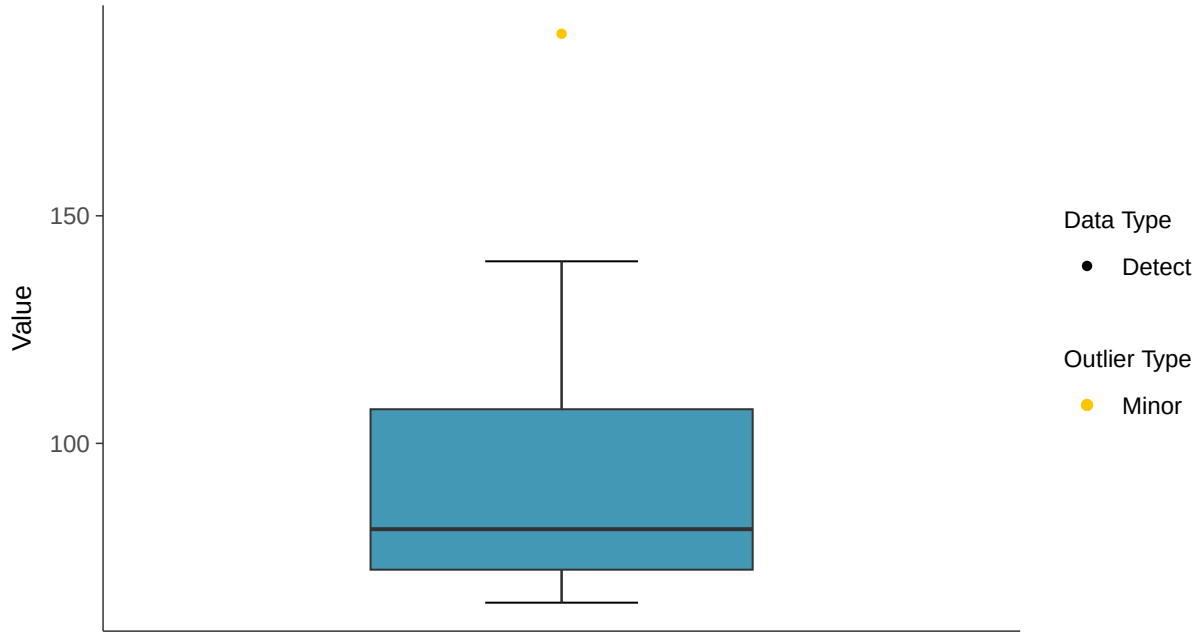
Histogram

Barium, MW-17006 (ug/L)



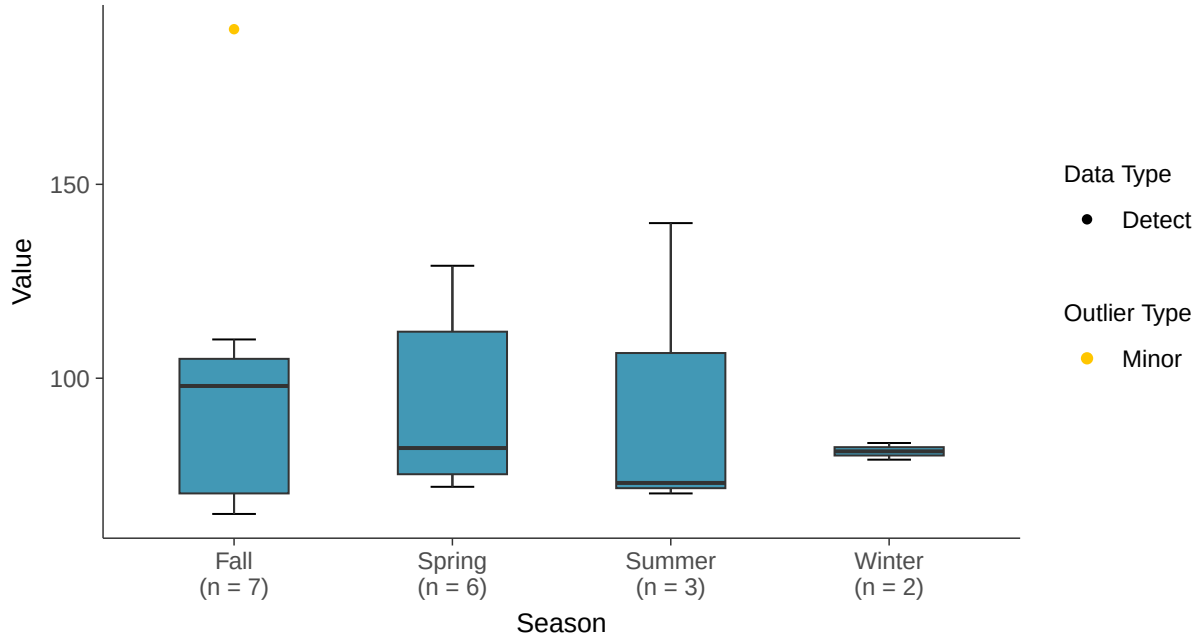
Boxplot

Barium, MW-17006 (ug/L)



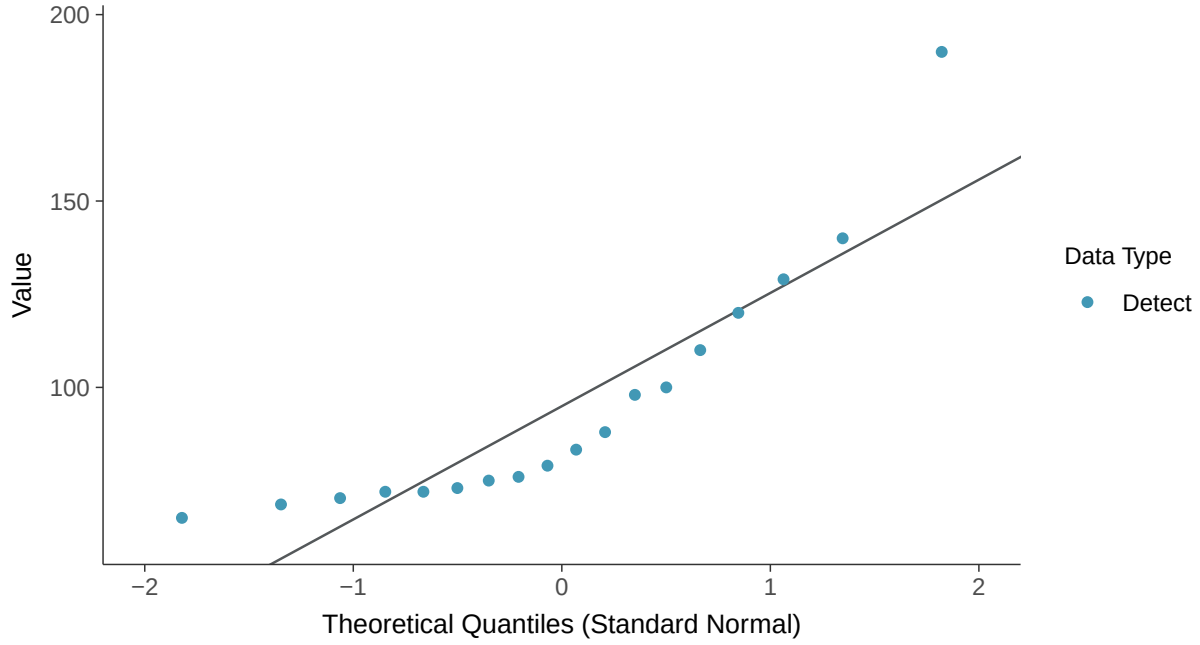
Boxplot by Season

Barium, MW-17006 (ug/L)



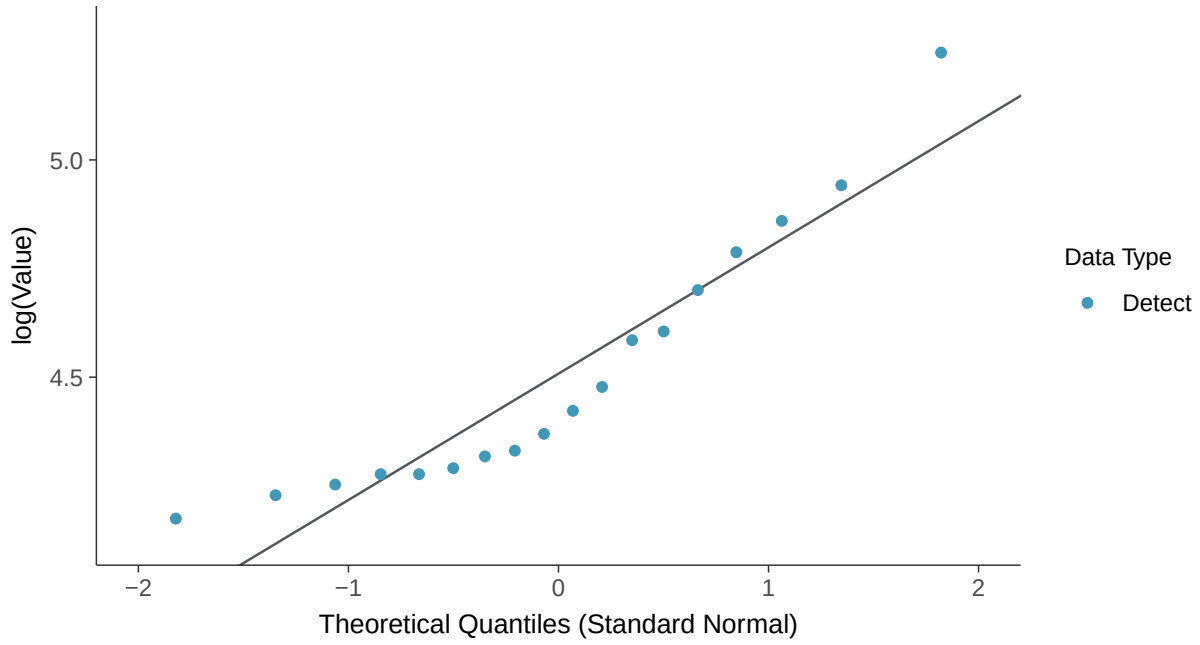
Normal Q-Q plot

Barium, MW-17006 (ug/L)



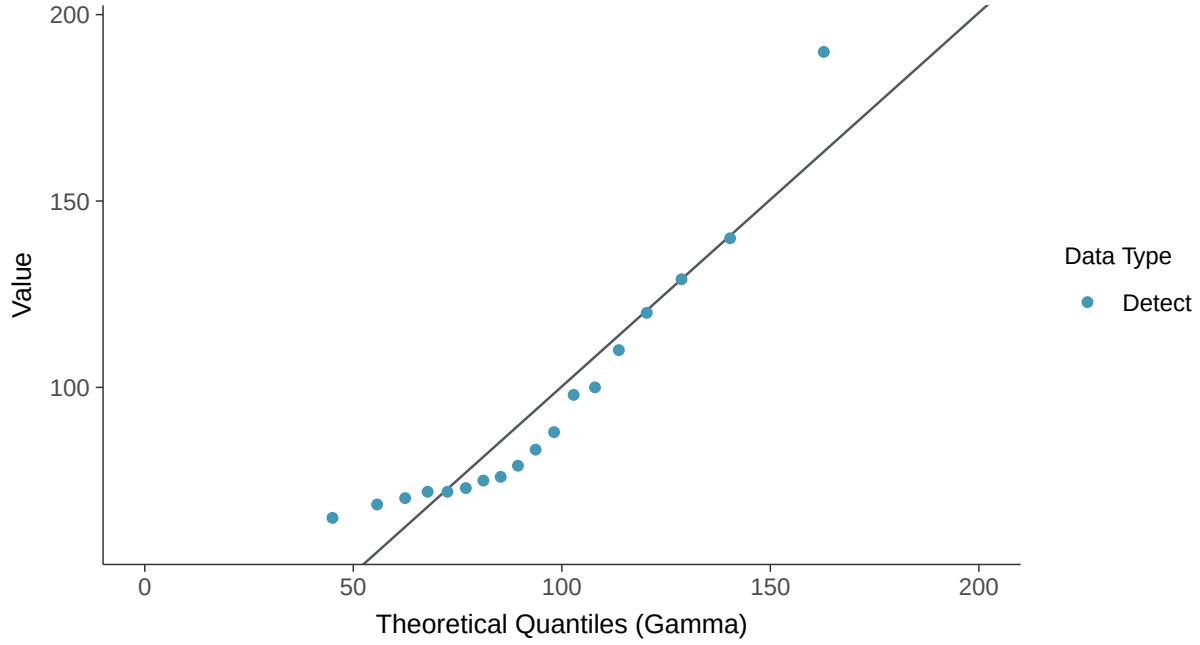
Lognormal Q-Q plot

Barium, MW-17006 (ug/L)



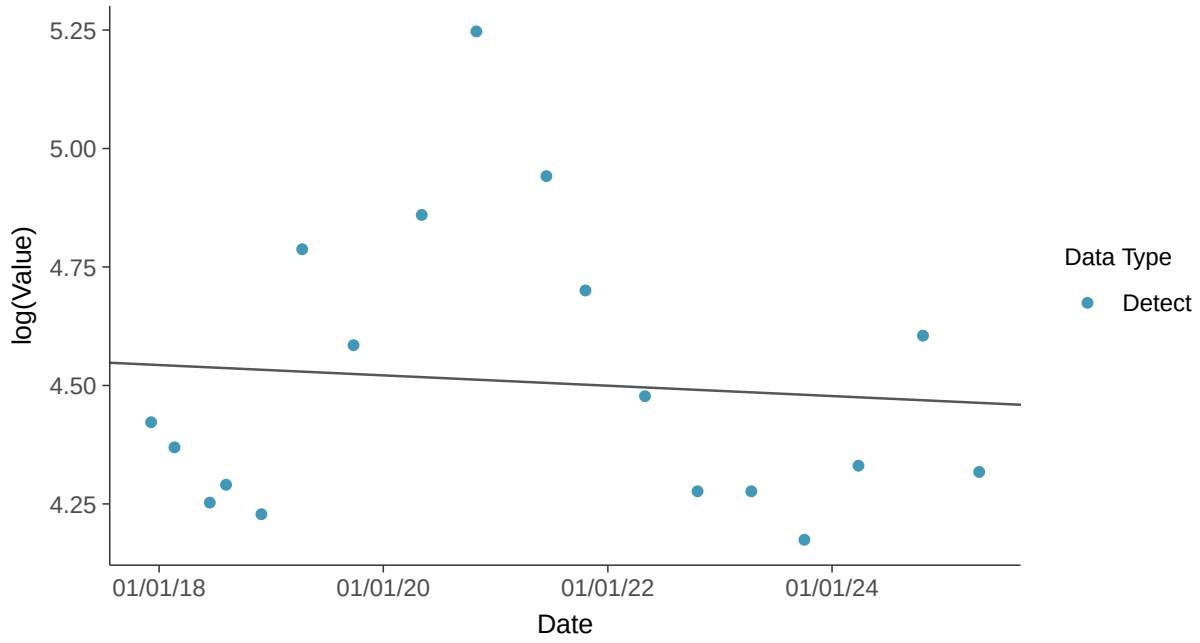
Gamma Q-Q plot

Barium, MW-17006 (ug/L)



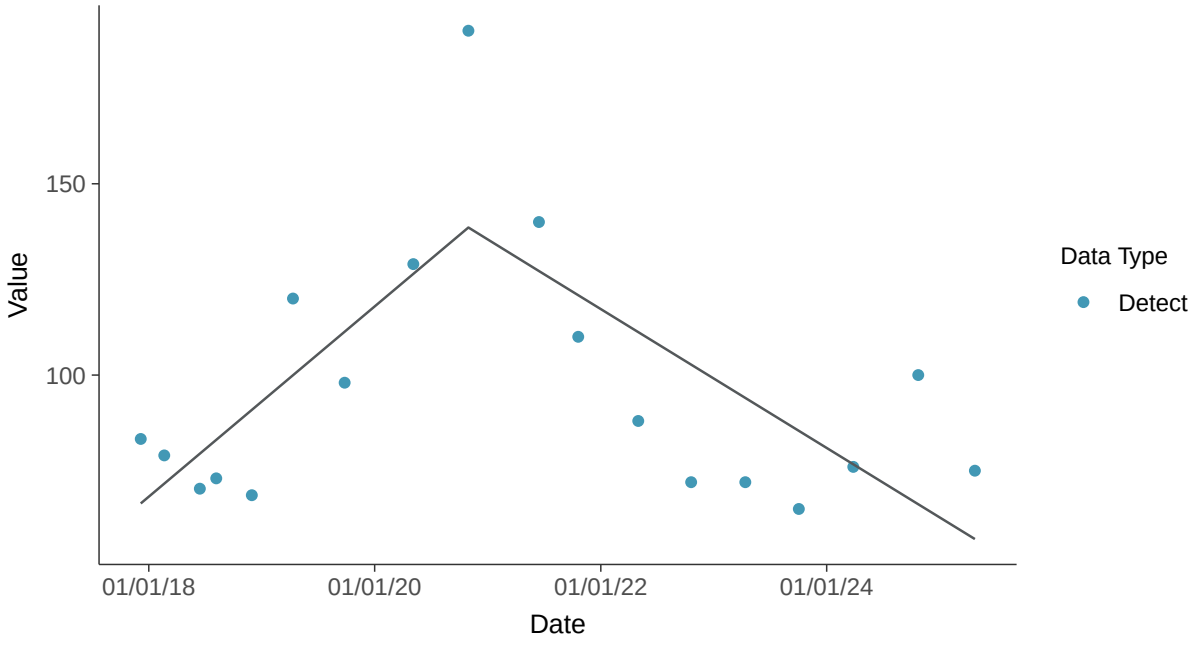
Trend Regression: Lognormal MLE

Barium, MW-17006 (ug/L)



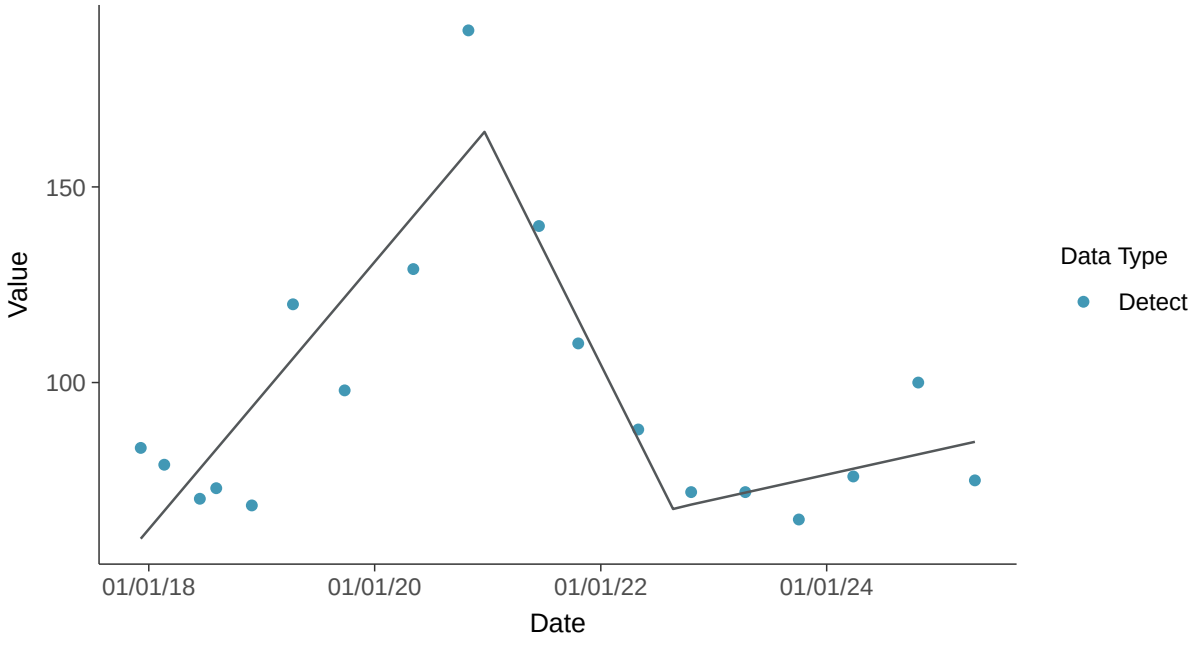
Trend Regression: Piecewise Linear-Linear

Barium, MW-17006 (ug/L)



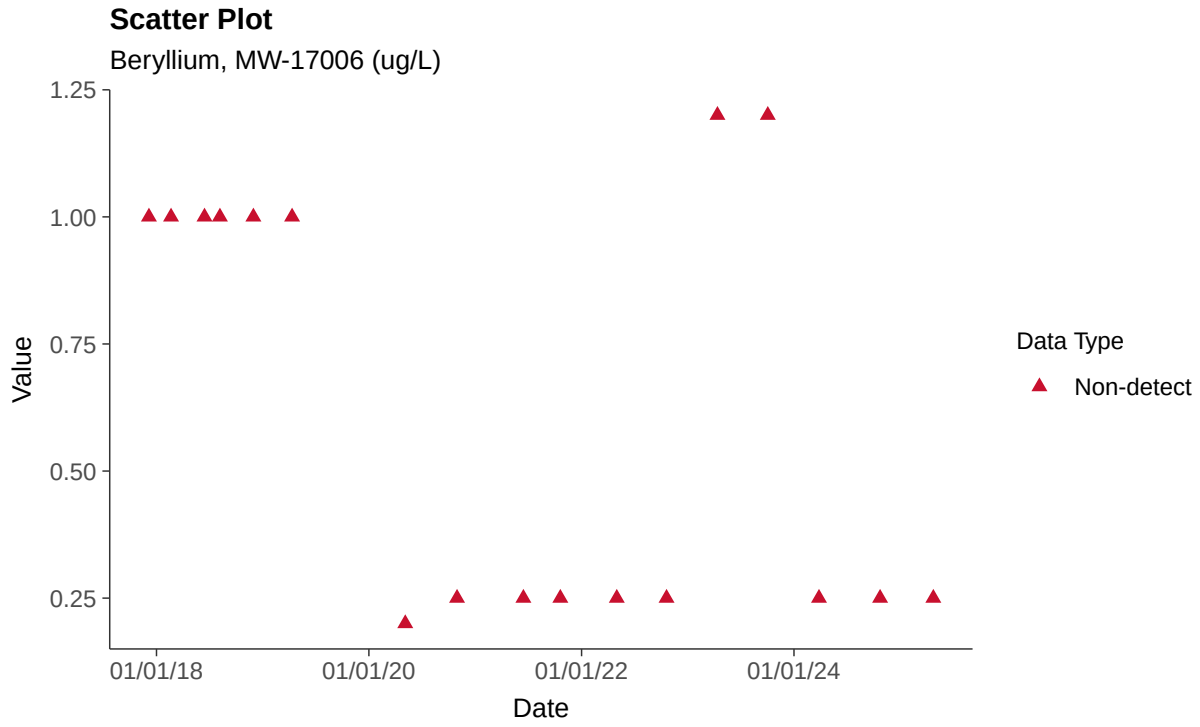
Trend Regression: Piecewise Linear-Linear-Linear

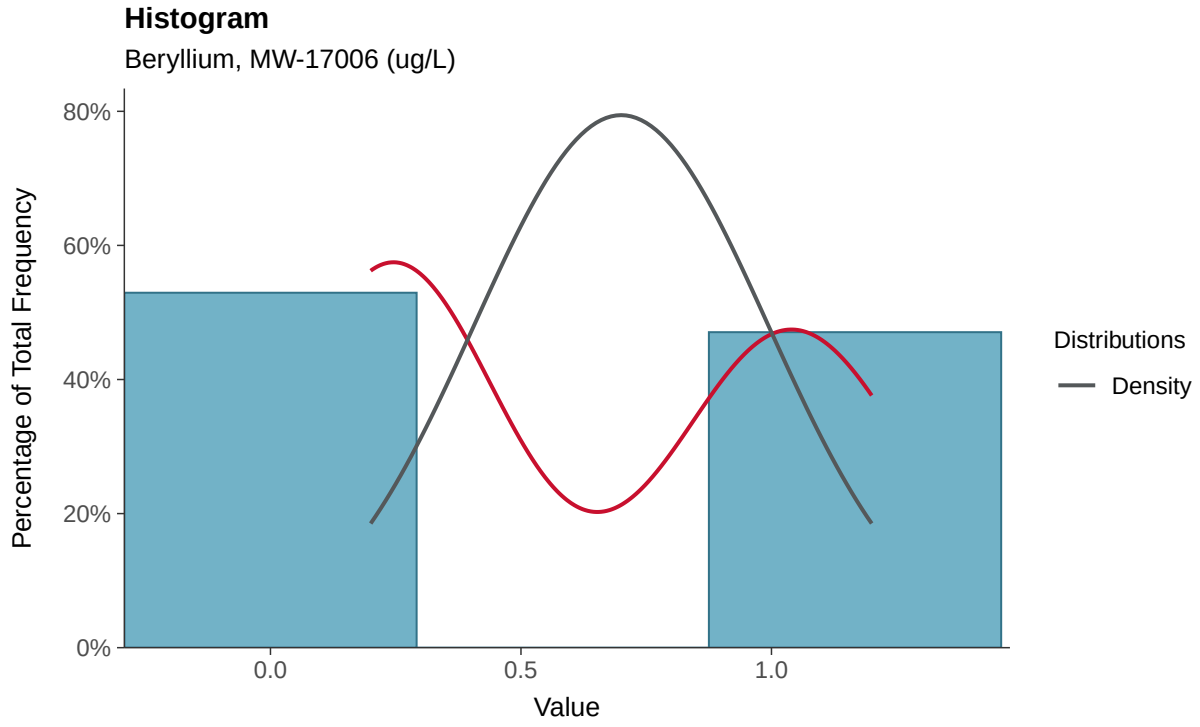
Barium, MW-17006 (ug/L)



Appendix IV: Beryllium, MW-17006

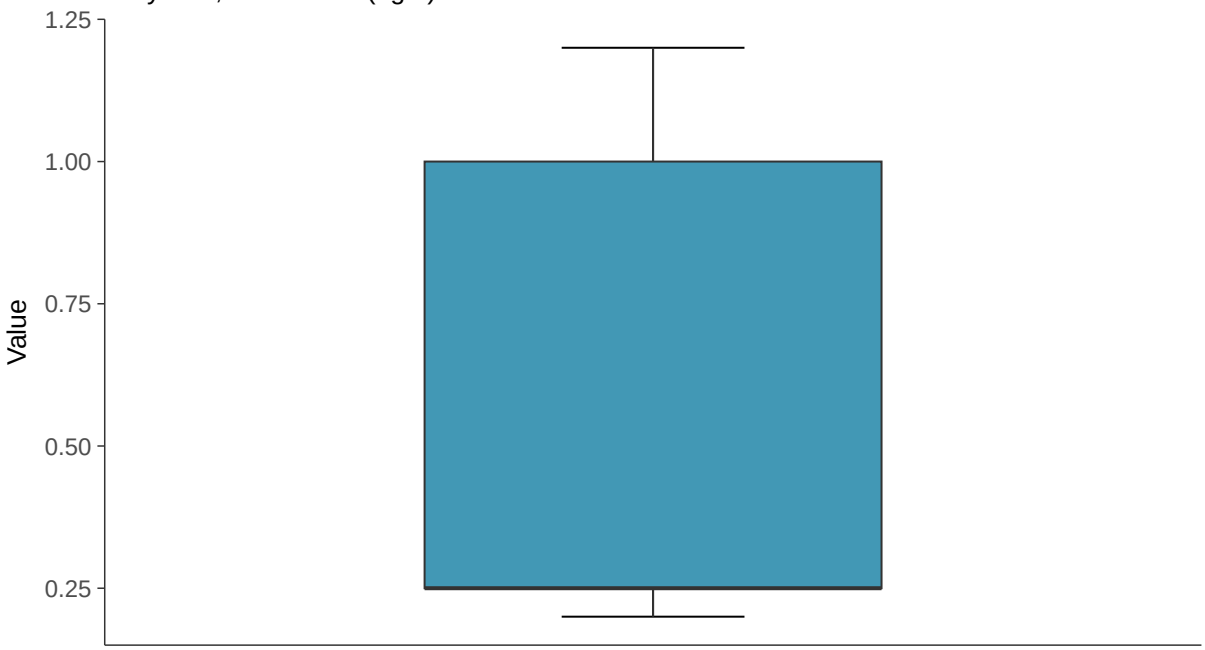
ID: 19_2_104





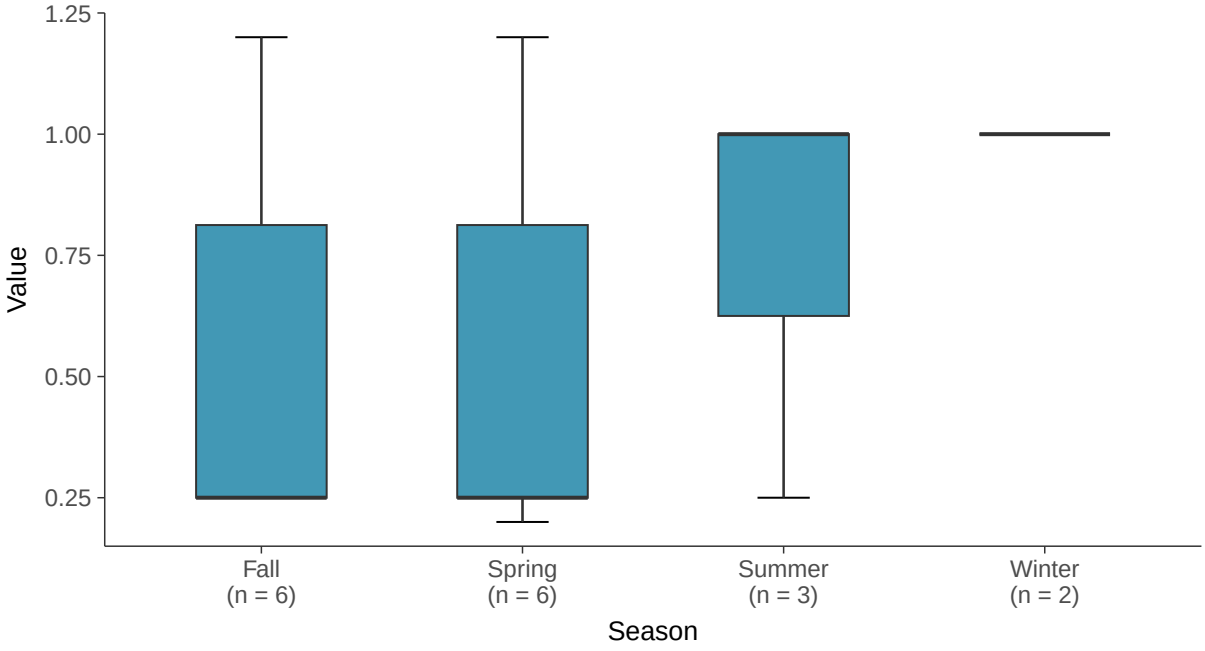
Boxplot

Beryllium, MW-17006 (ug/L)



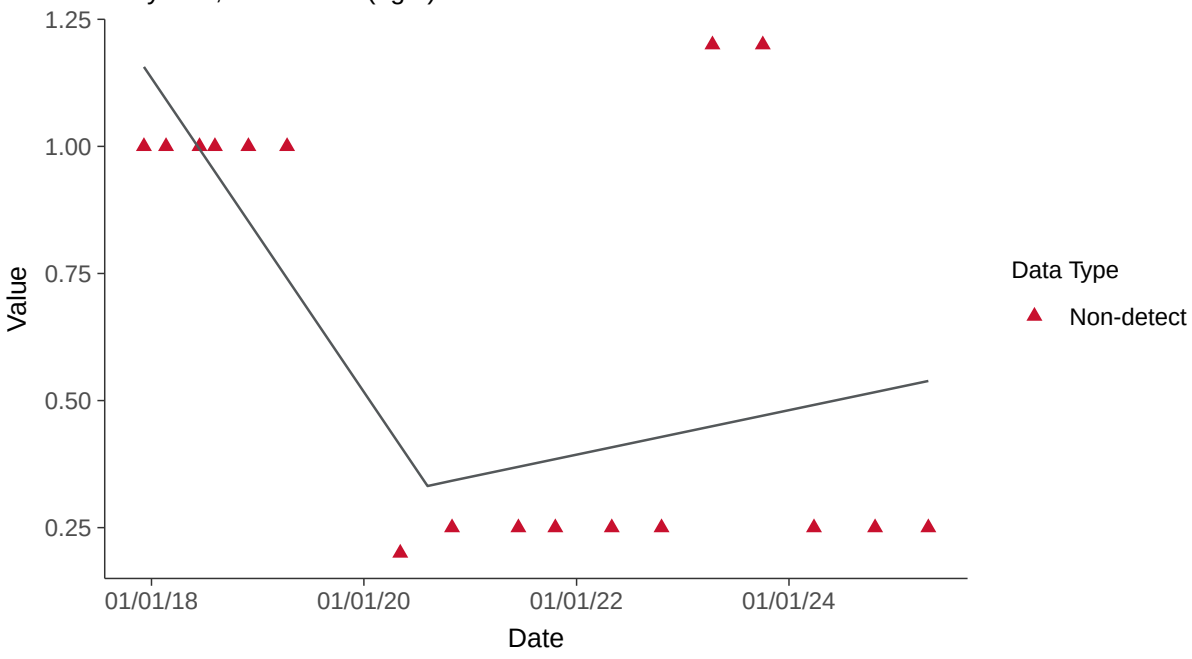
Boxplot by Season

Beryllium, MW-17006 (ug/L)



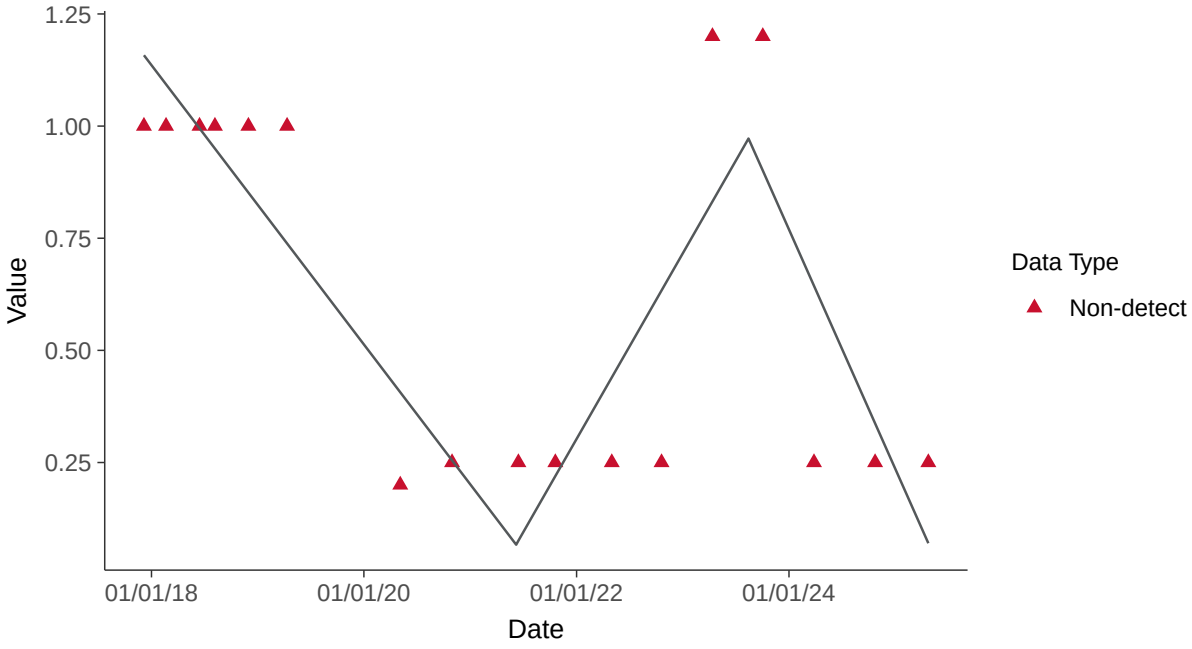
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-17006 (ug/L)



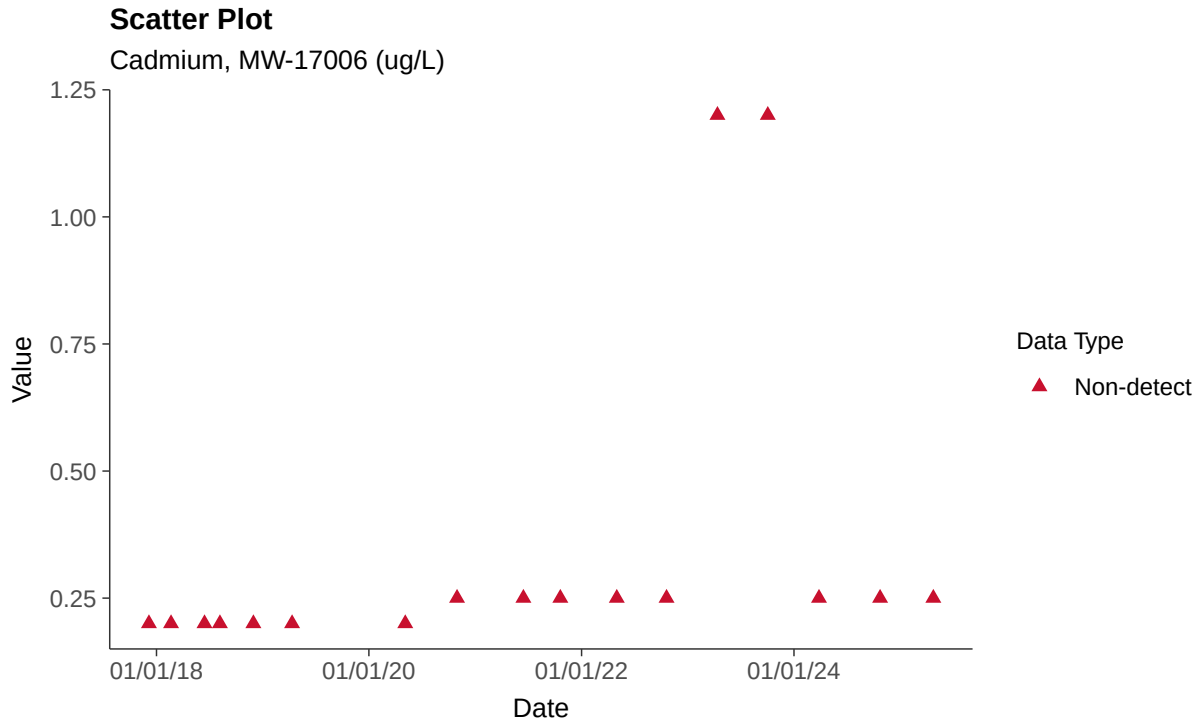
Trend Regression: Piecewise Linear-Linear-Linear

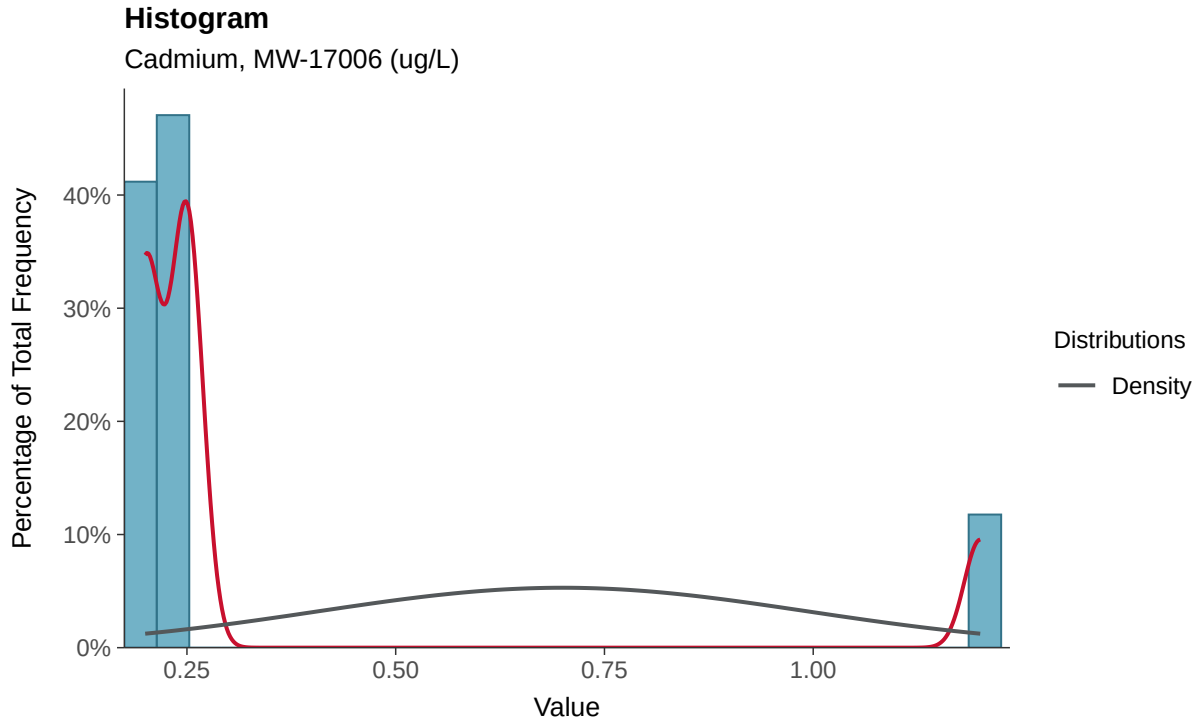
Beryllium, MW-17006 (ug/L)



Appendix IV: Cadmium, MW-17006

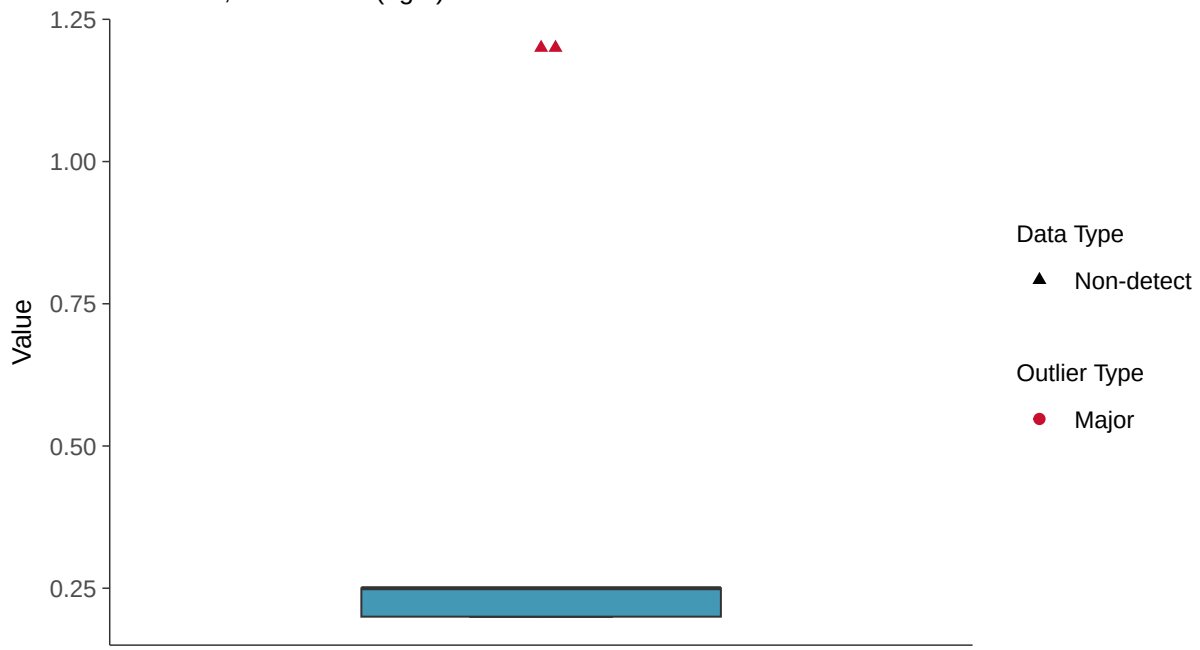
ID: 19_2_106





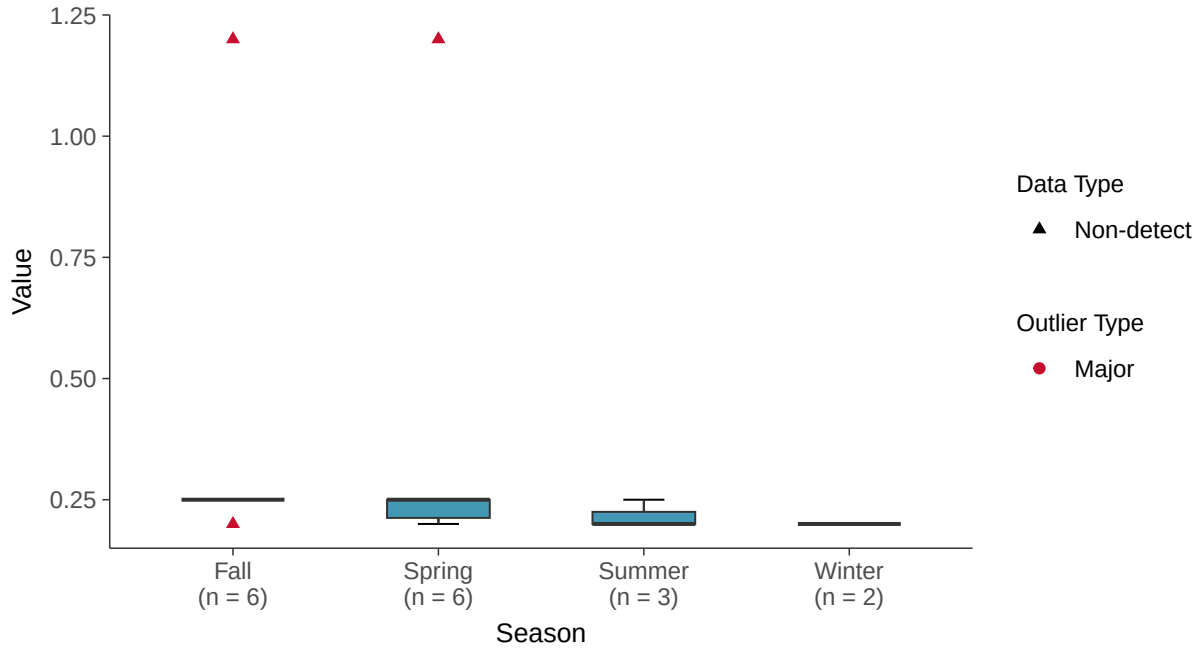
Boxplot

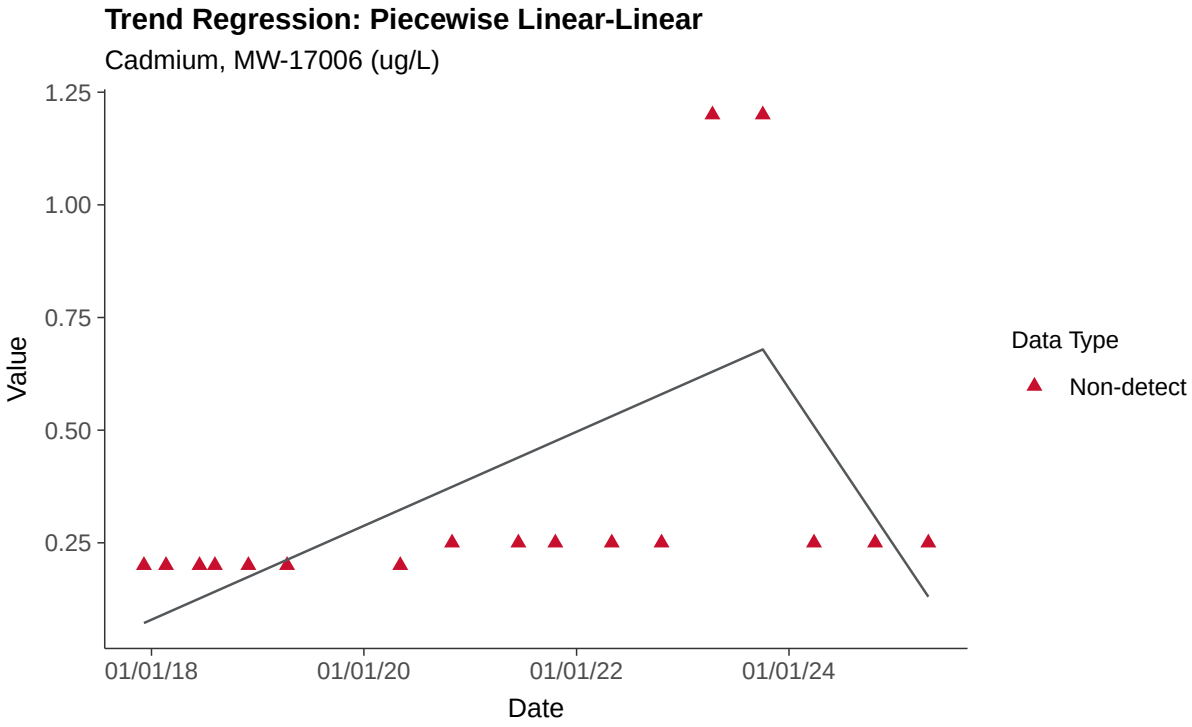
Cadmium, MW-17006 (ug/L)



Boxplot by Season

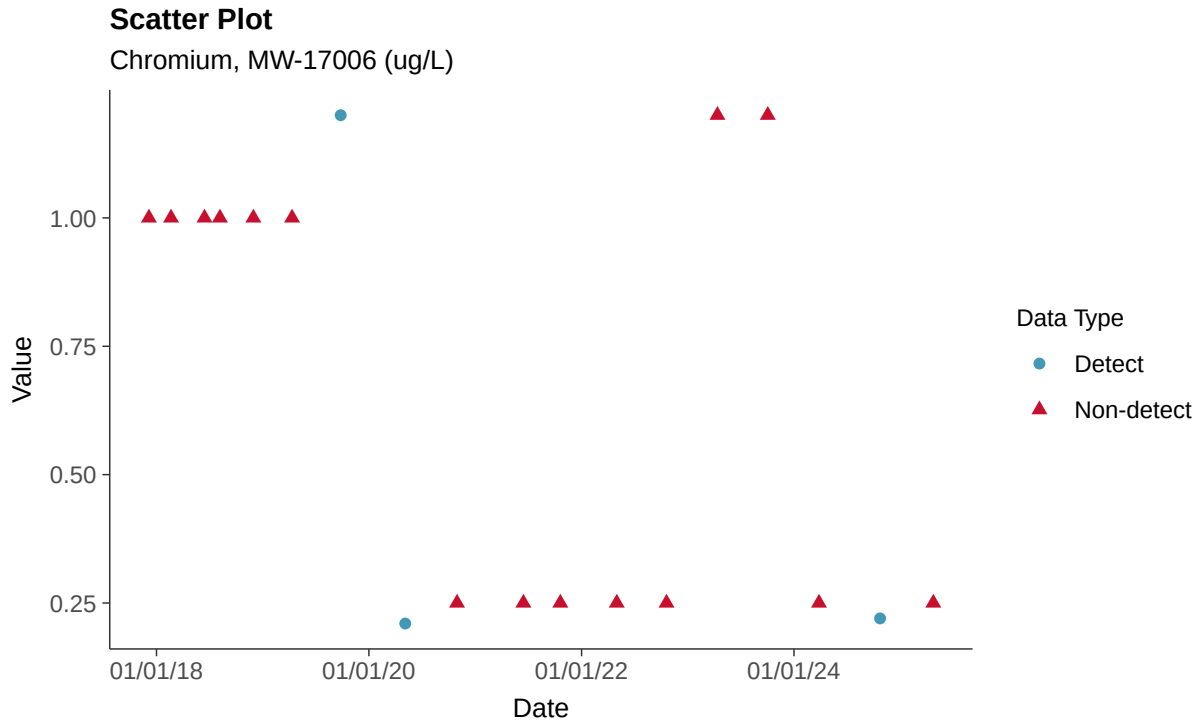
Cadmium, MW-17006 (ug/L)

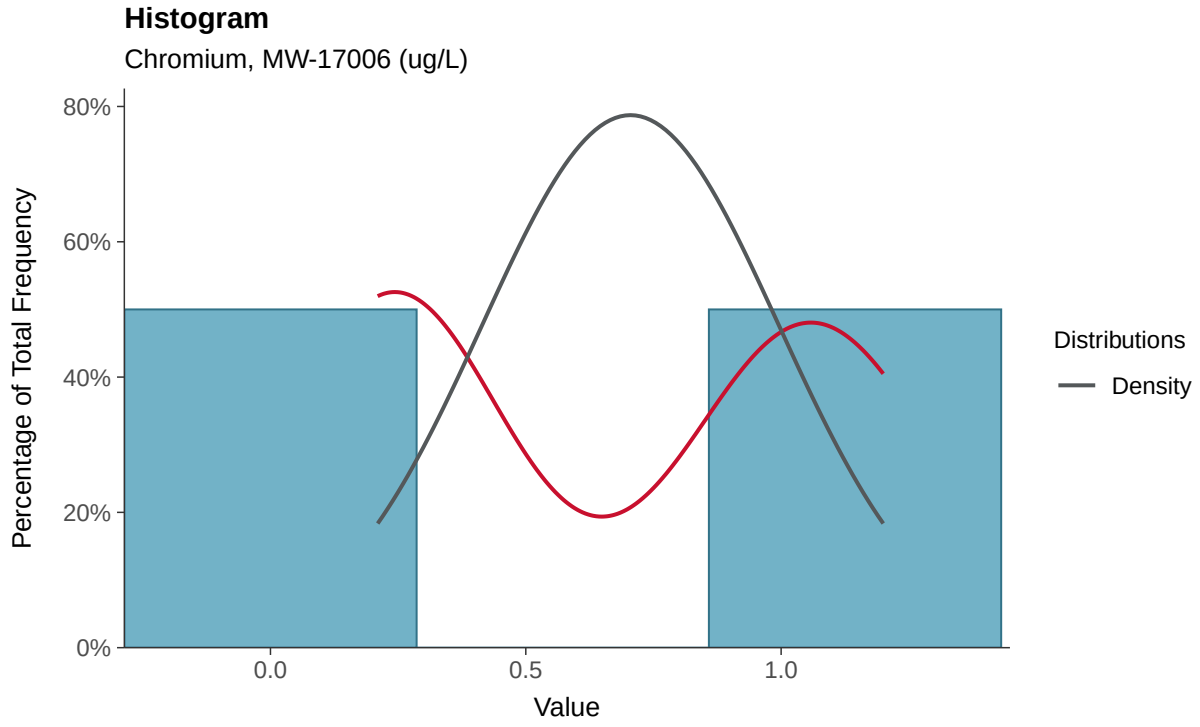



Trend Regression: Piecewise Linear-Linear
Cadmium, MW-17006 (ug/L)
1.25
1.00
0.75
0.50
0.25
Value
01/01/18
01/01/20
01/01/22
01/01/24
Date
Data Type
Non-detect

Appendix IV: Chromium, MW-17006

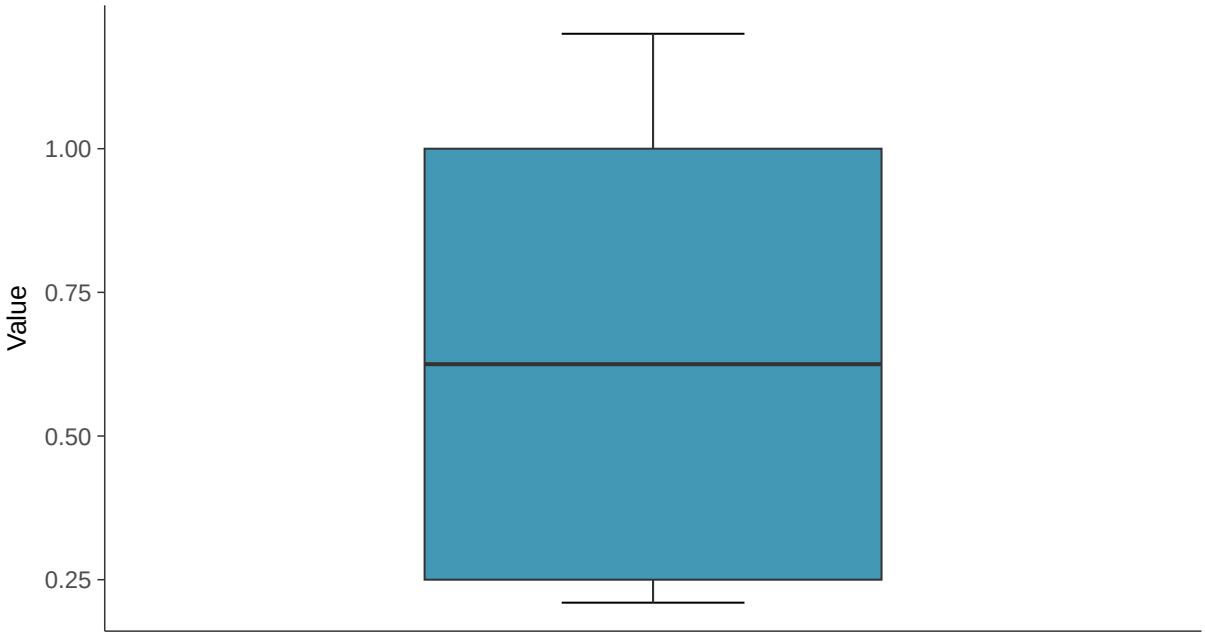
ID: 19_2_109





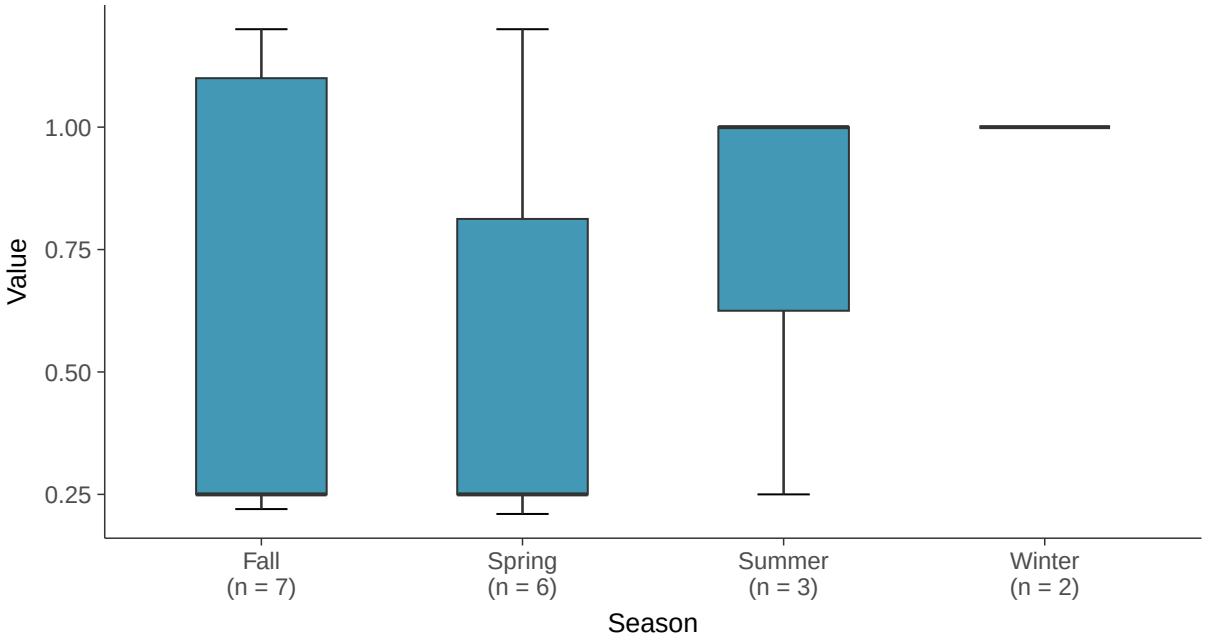
Boxplot

Chromium, MW-17006 (ug/L)



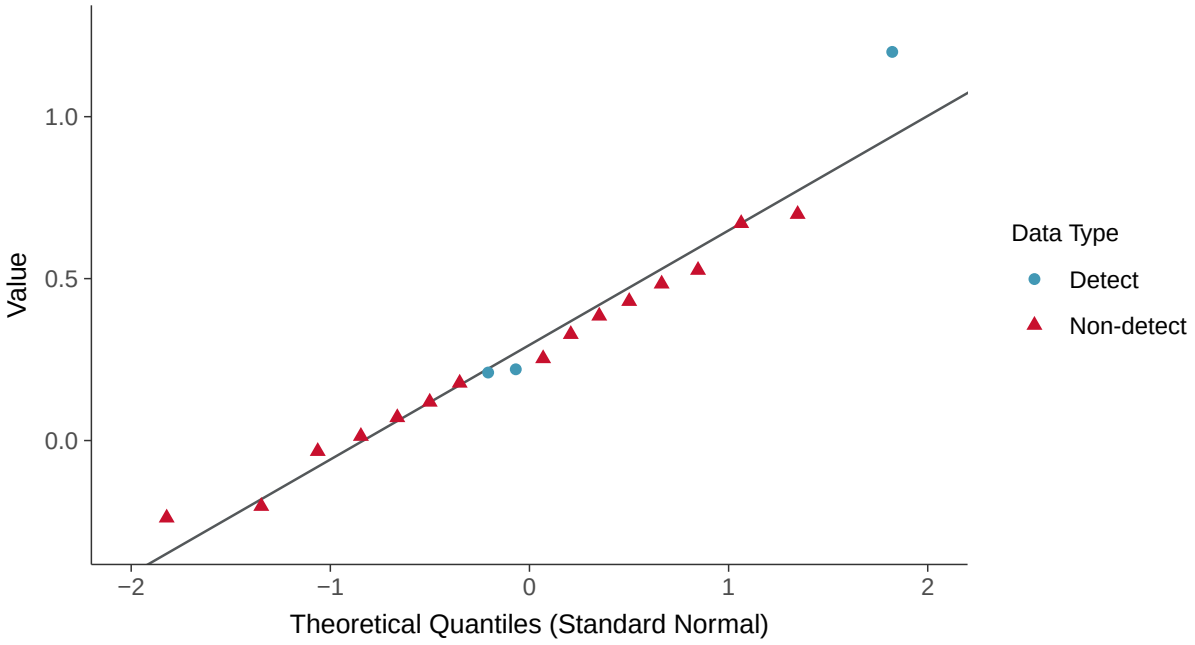
Boxplot by Season

Chromium, MW-17006 (ug/L)



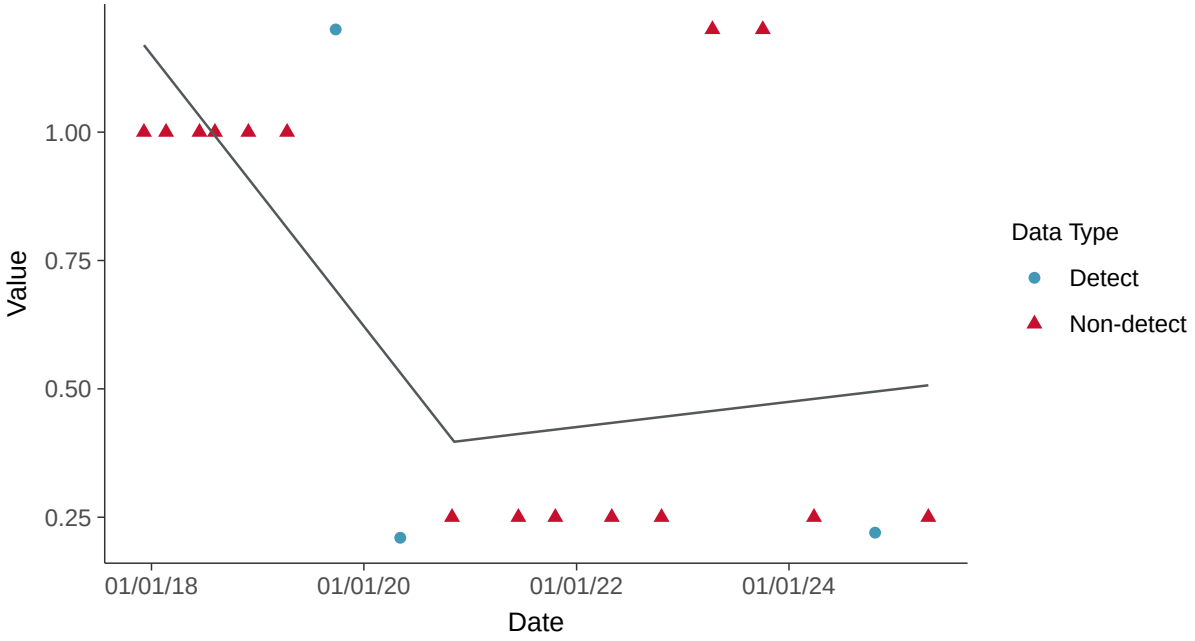
Normal Q-Q plot using ROS Imputed Estimates

Chromium, MW-17006 (ug/L)



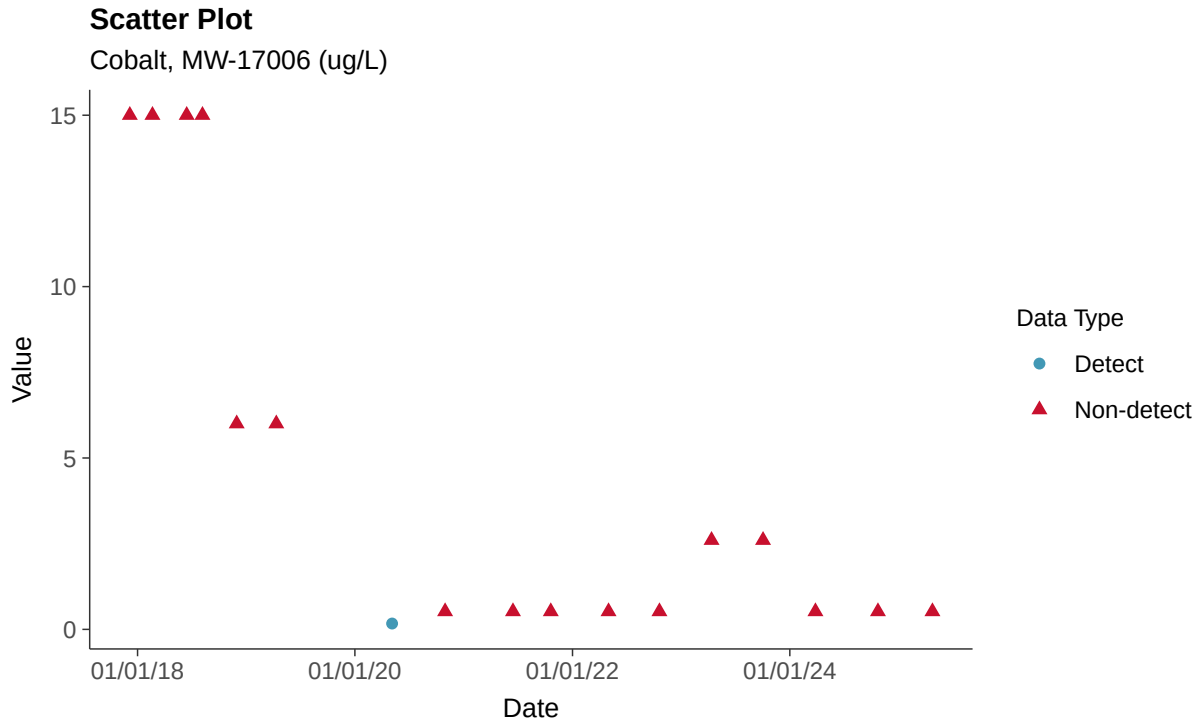
Trend Regression: Piecewise Linear-Linear

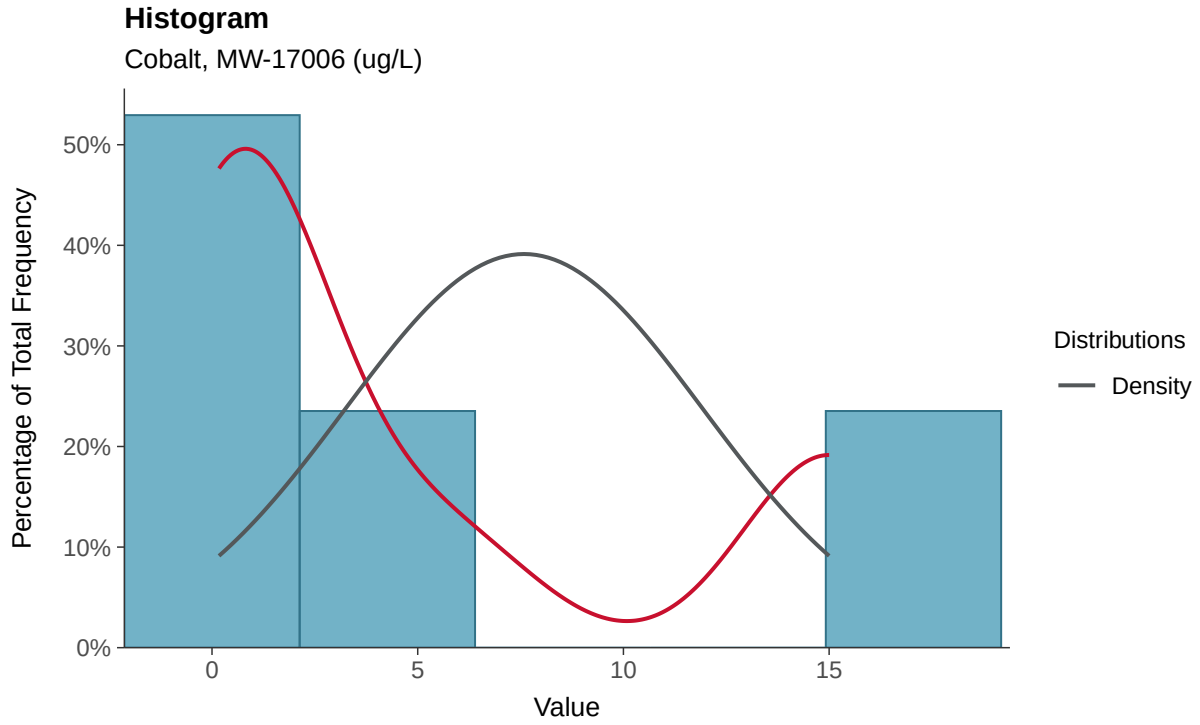
Chromium, MW-17006 (ug/L)



Appendix IV: Cobalt, MW-17006

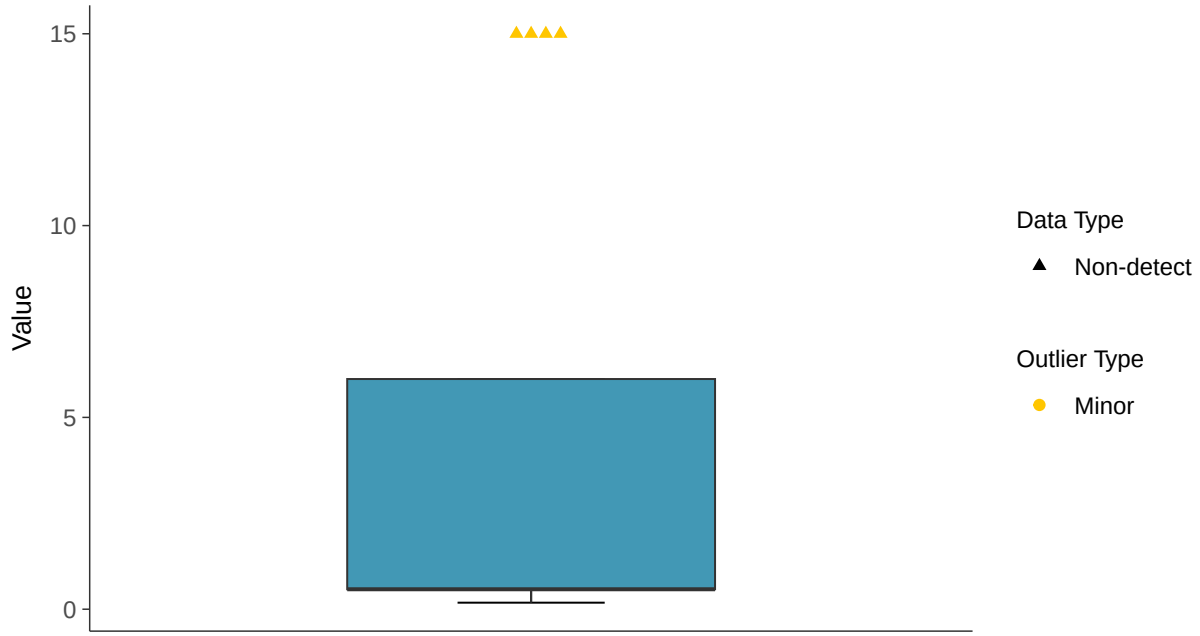
ID: 19_2_110





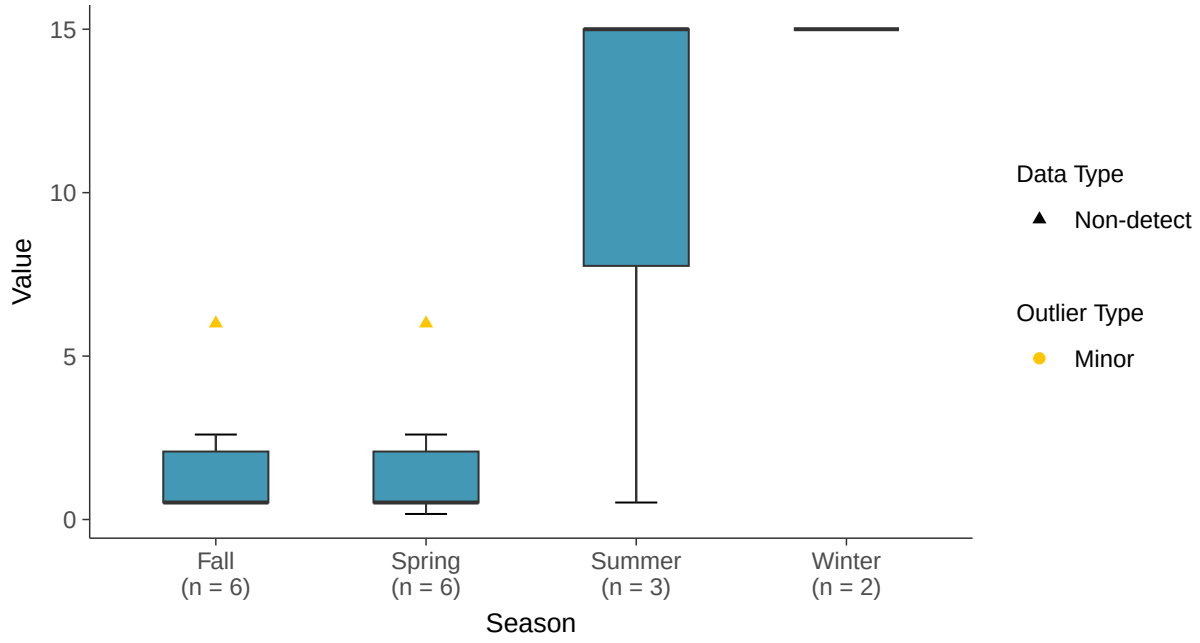
Boxplot

Cobalt, MW-17006 (ug/L)



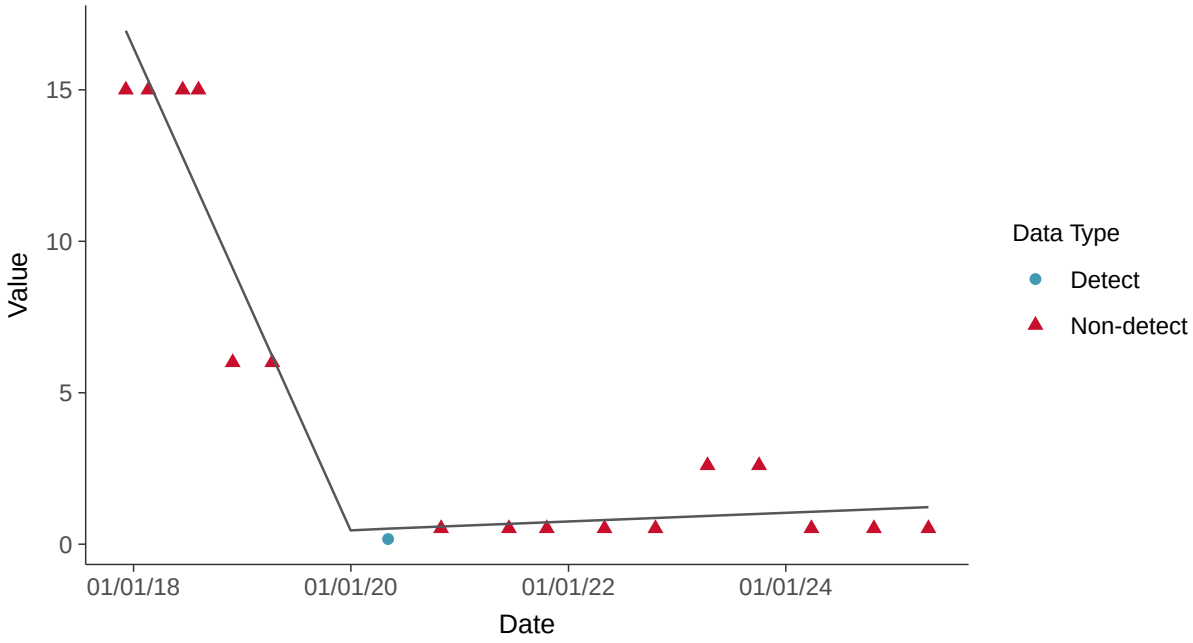
Boxplot by Season

Cobalt, MW-17006 (ug/L)



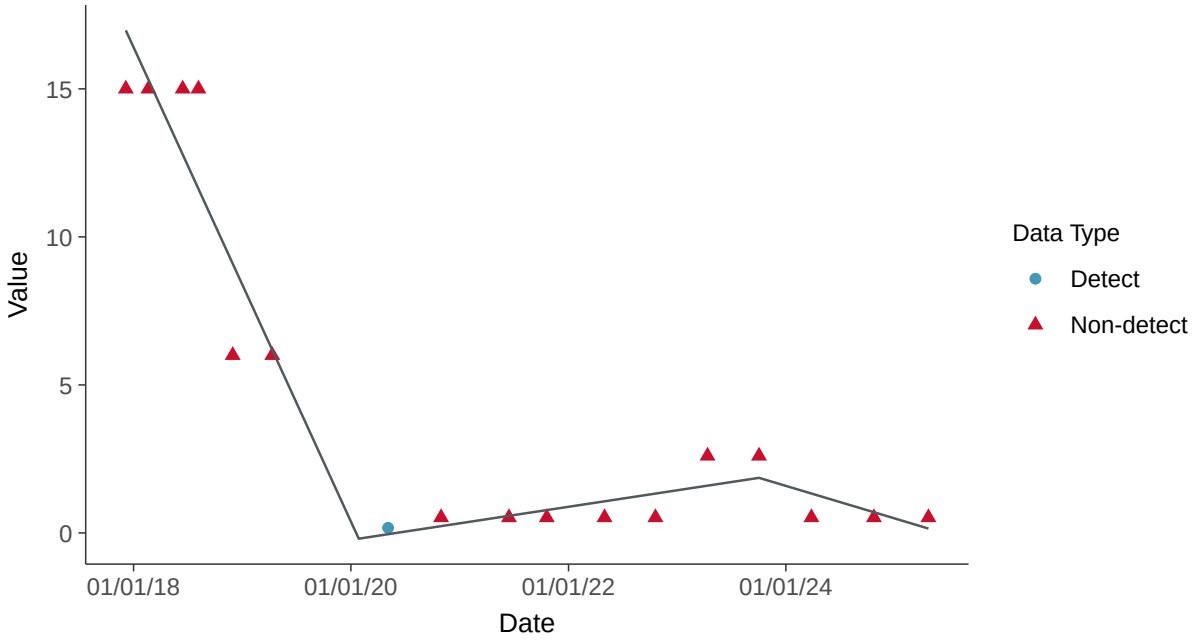
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-17006 (ug/L)



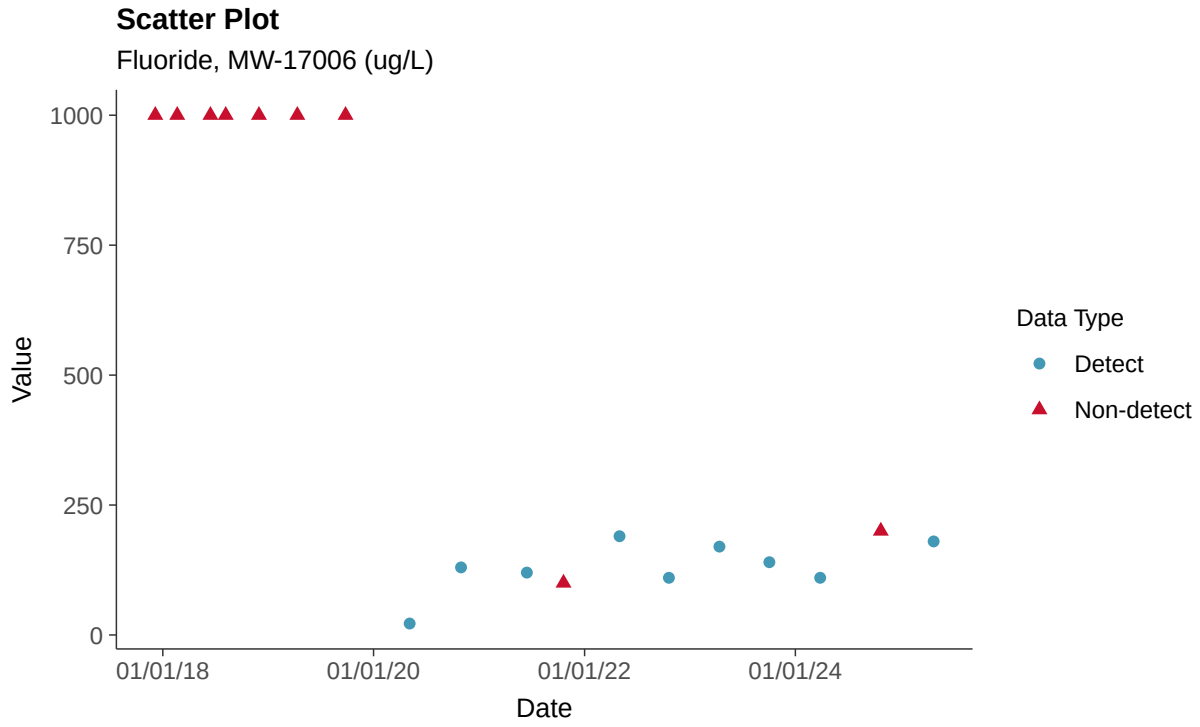
Trend Regression: Piecewise Linear-Linear-Linear

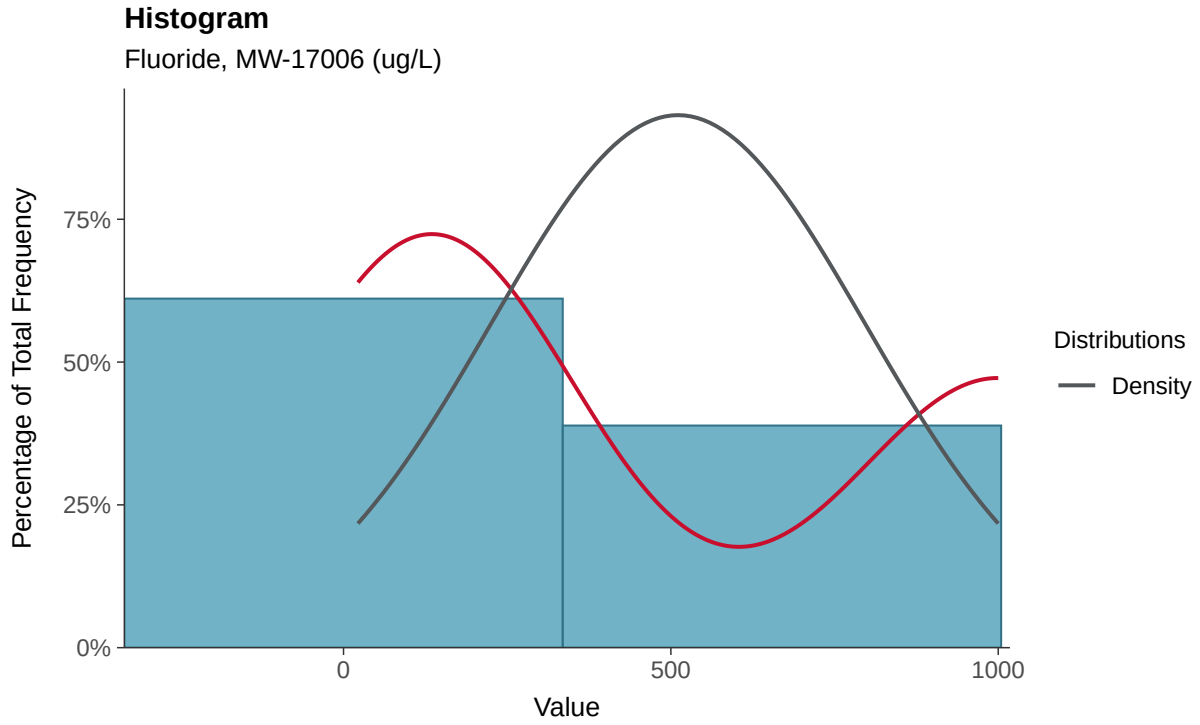
Cobalt, MW-17006 (ug/L)



Appendix IV: Fluoride, MW-17006

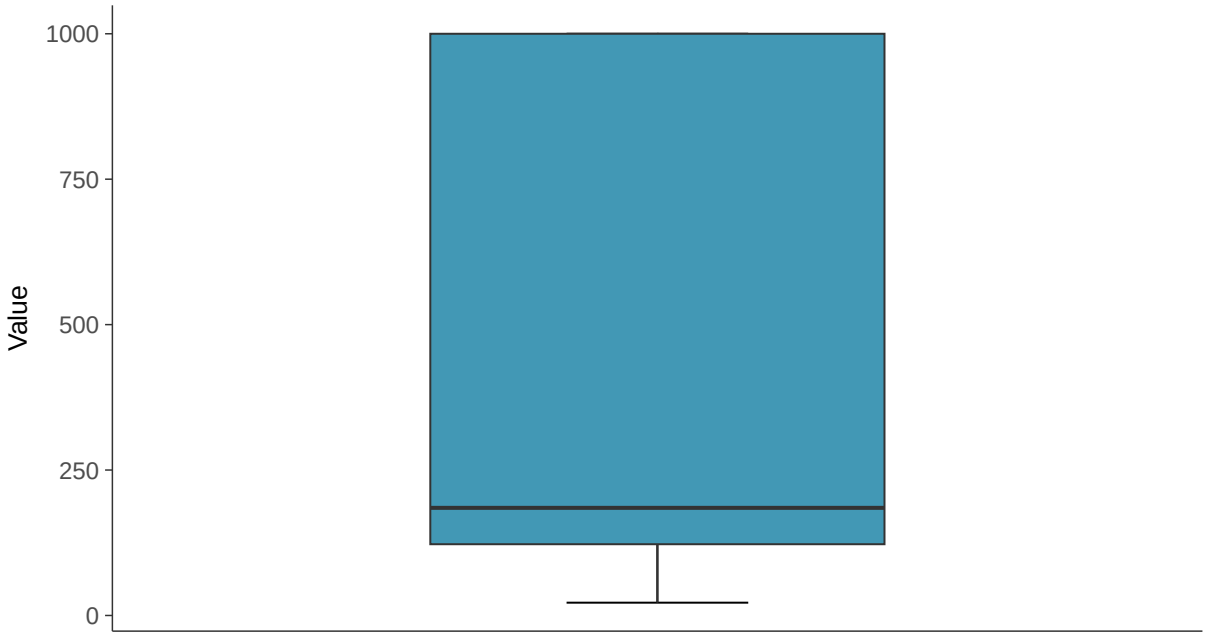
ID: 19_2_114





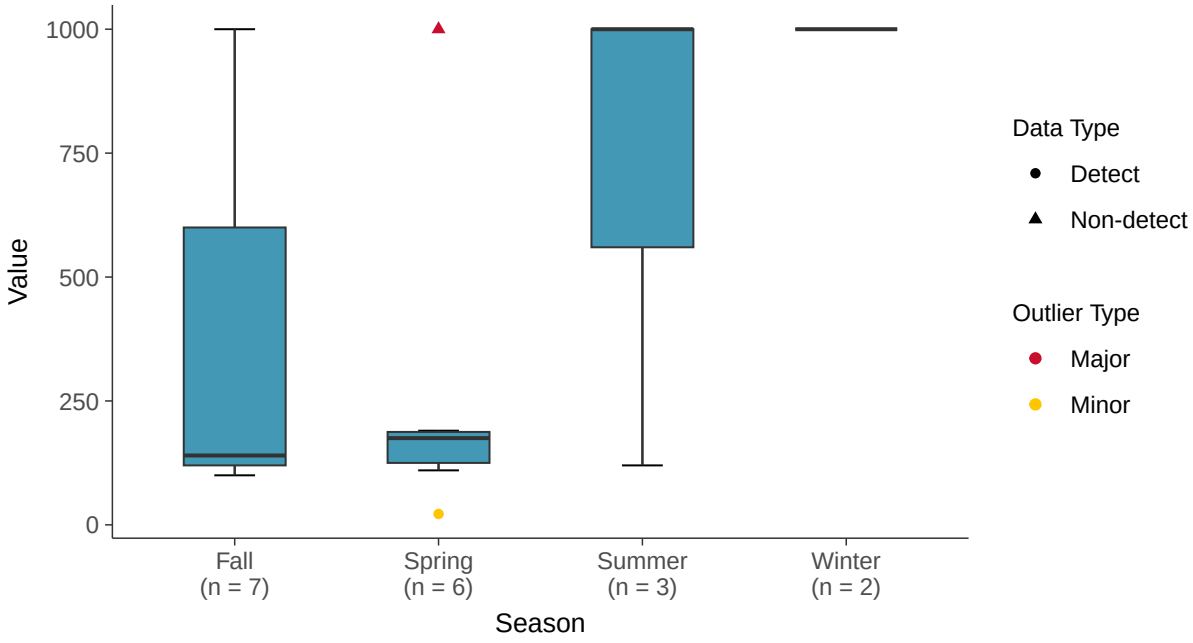
Boxplot

Fluoride, MW-17006 (ug/L)



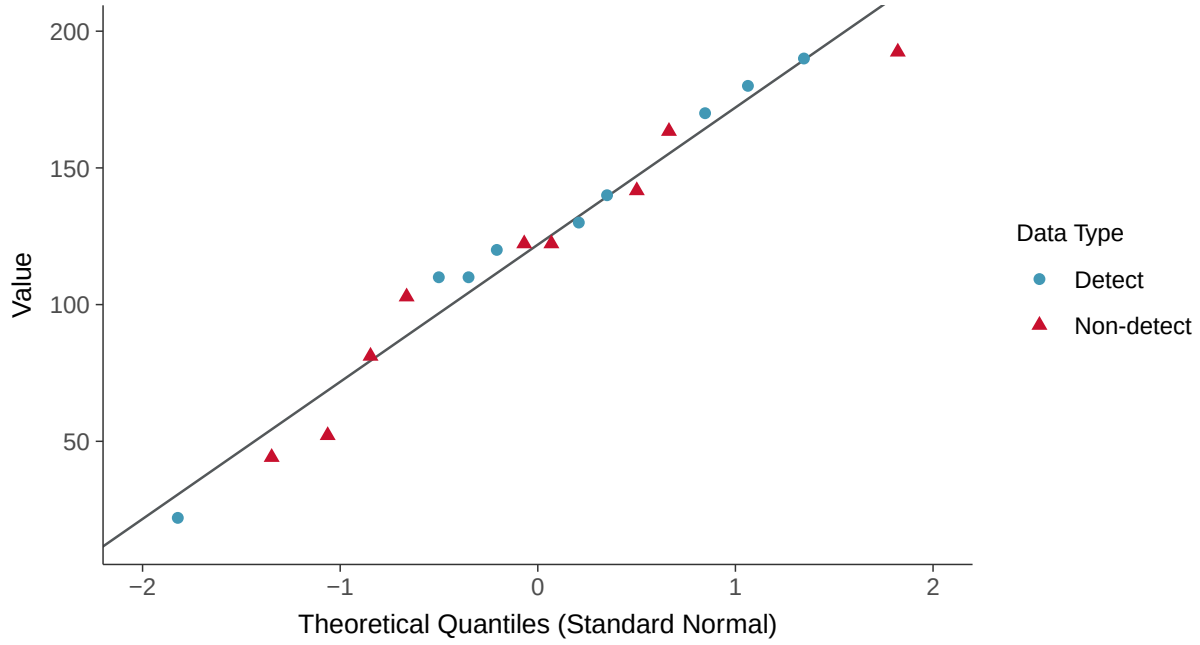
Boxplot by Season

Fluoride, MW-17006 (ug/L)



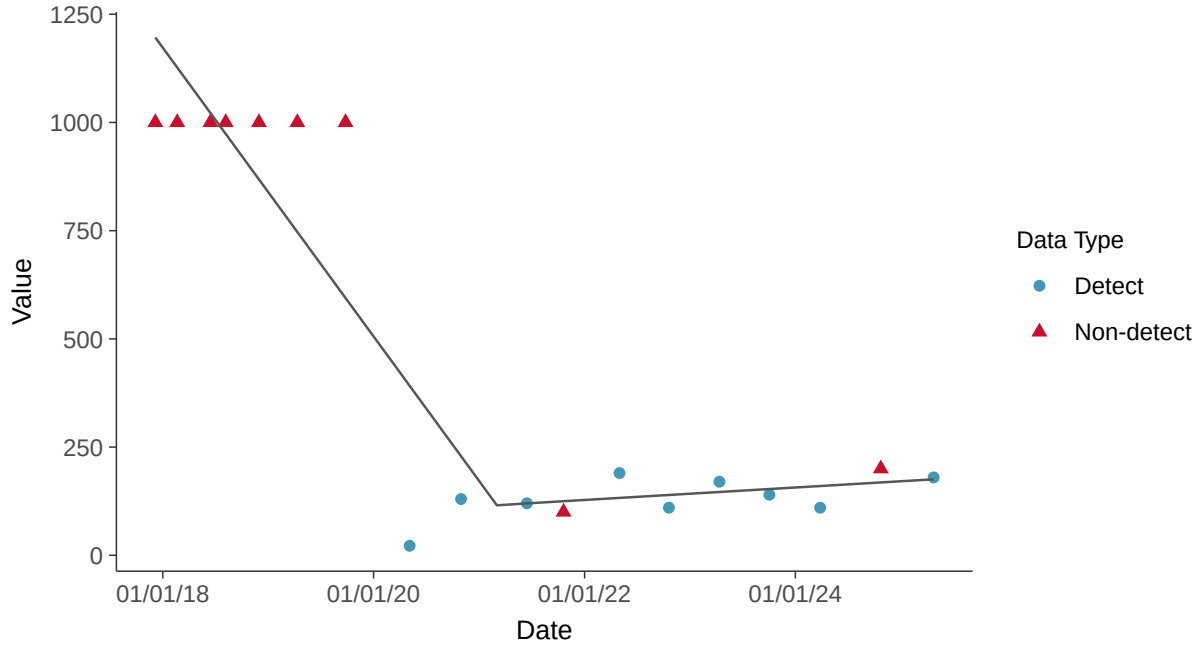
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-17006 (ug/L)



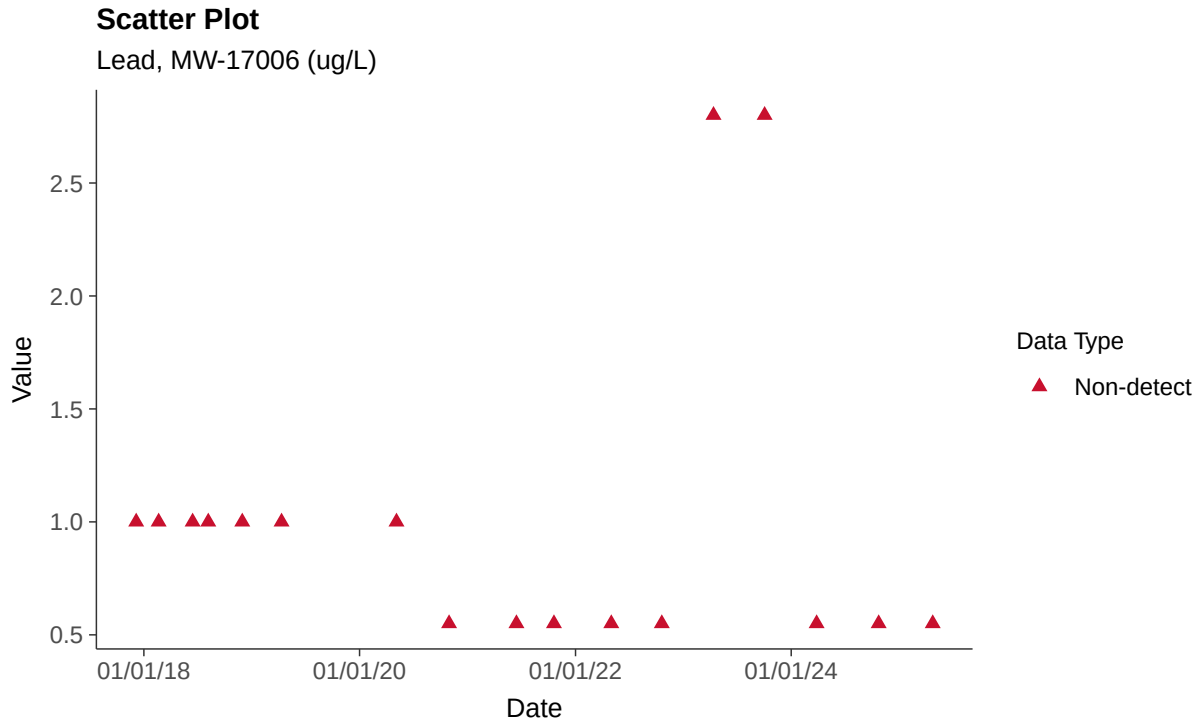
Trend Regression: Piecewise Linear-Linear

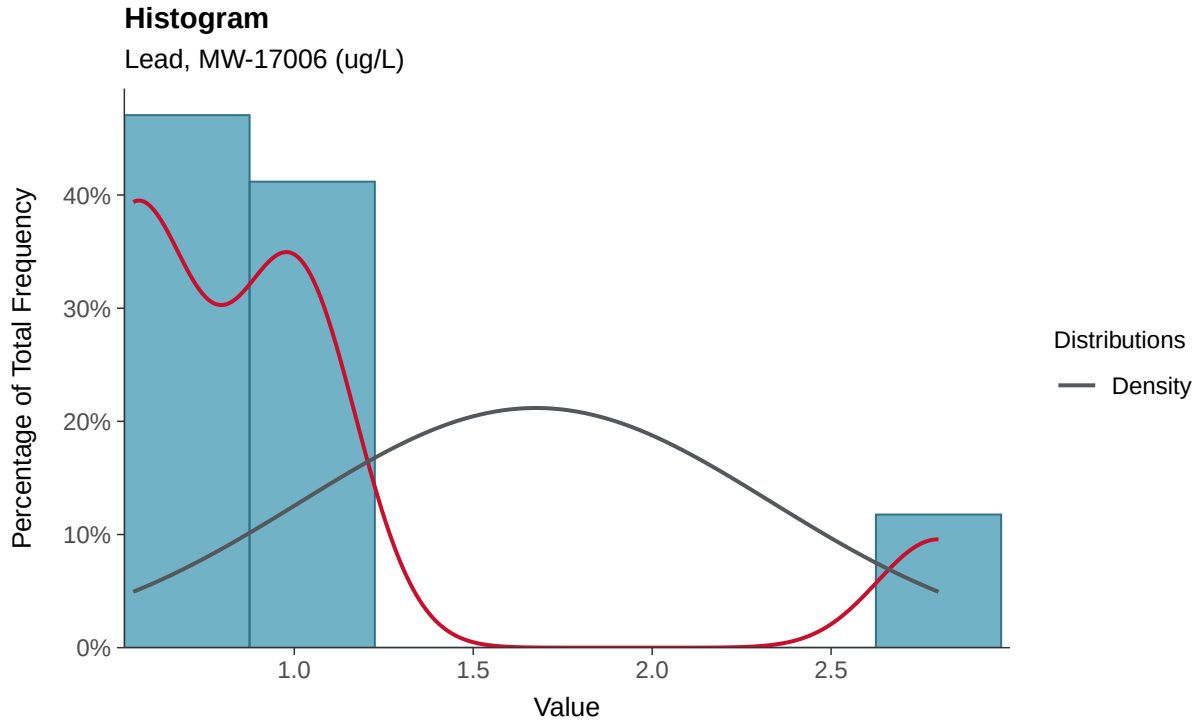
Fluoride, MW-17006 (ug/L)



Appendix IV: Lead, MW-17006

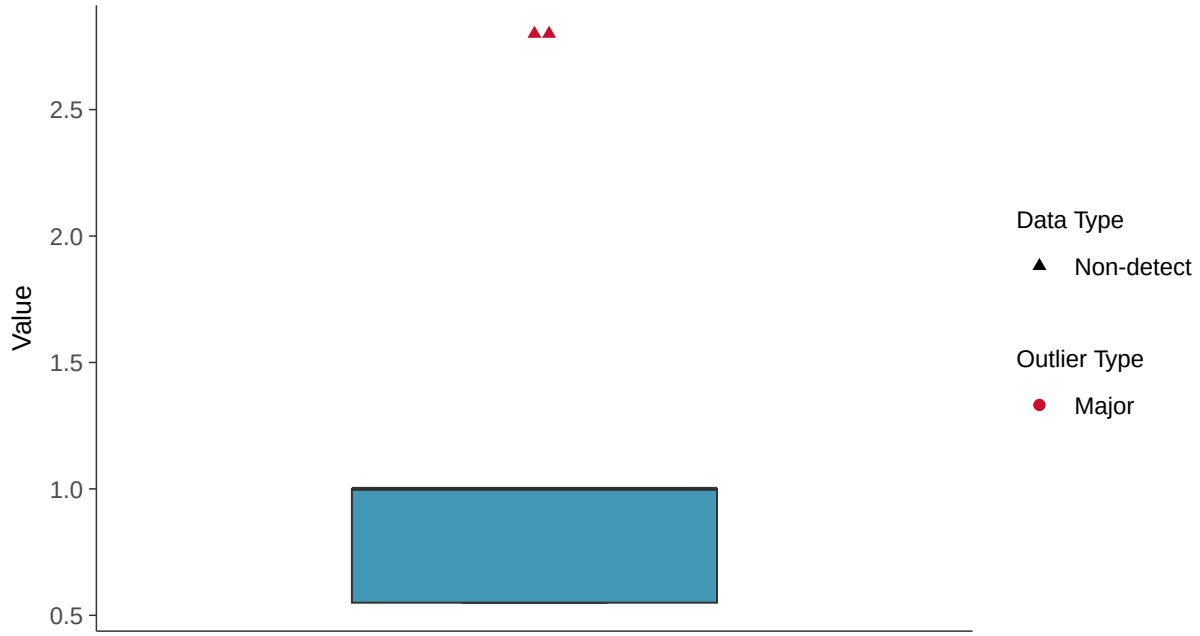
ID: 19_2_116





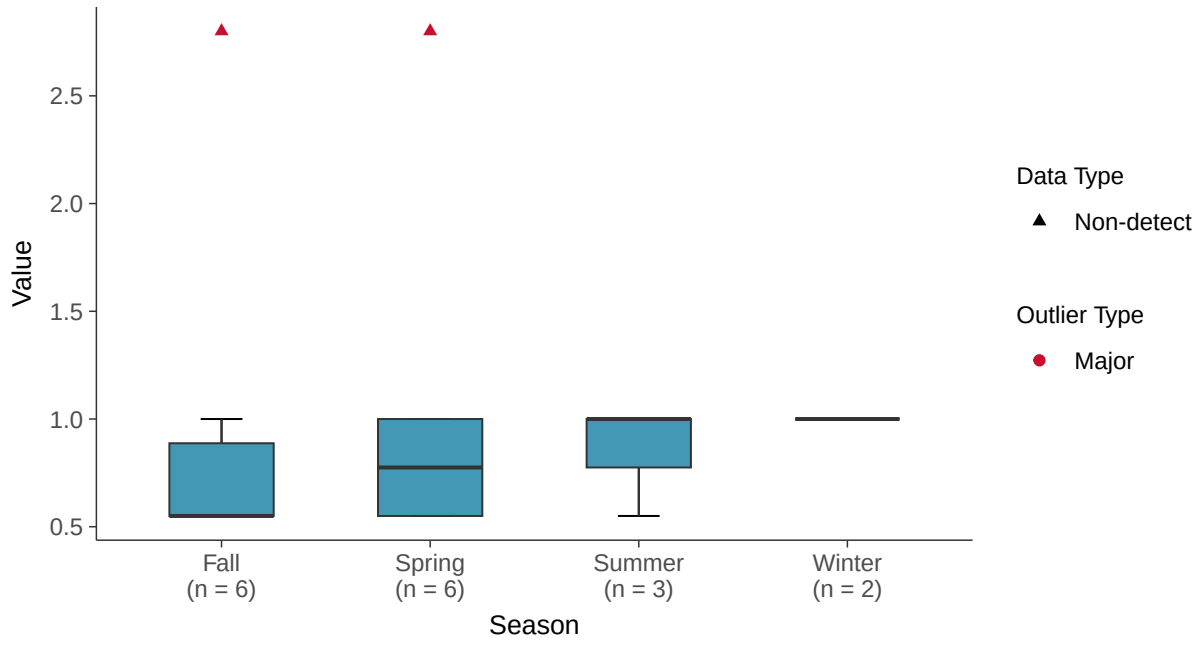
Boxplot

Lead, MW-17006 (ug/L)



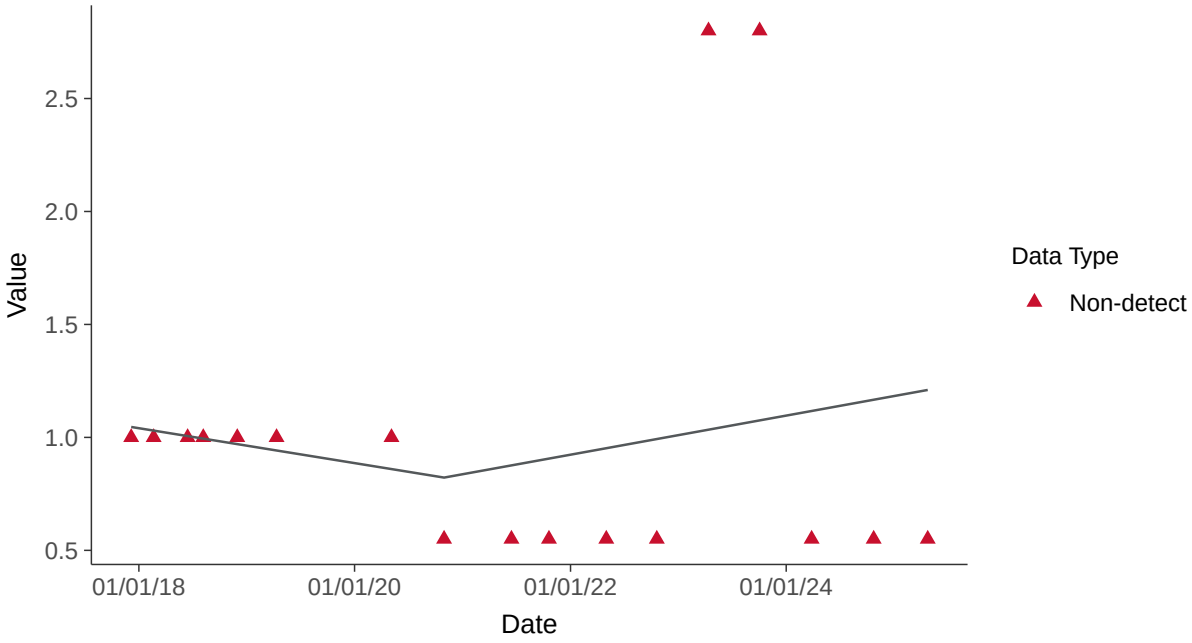
Boxplot by Season

Lead, MW-17006 (ug/L)



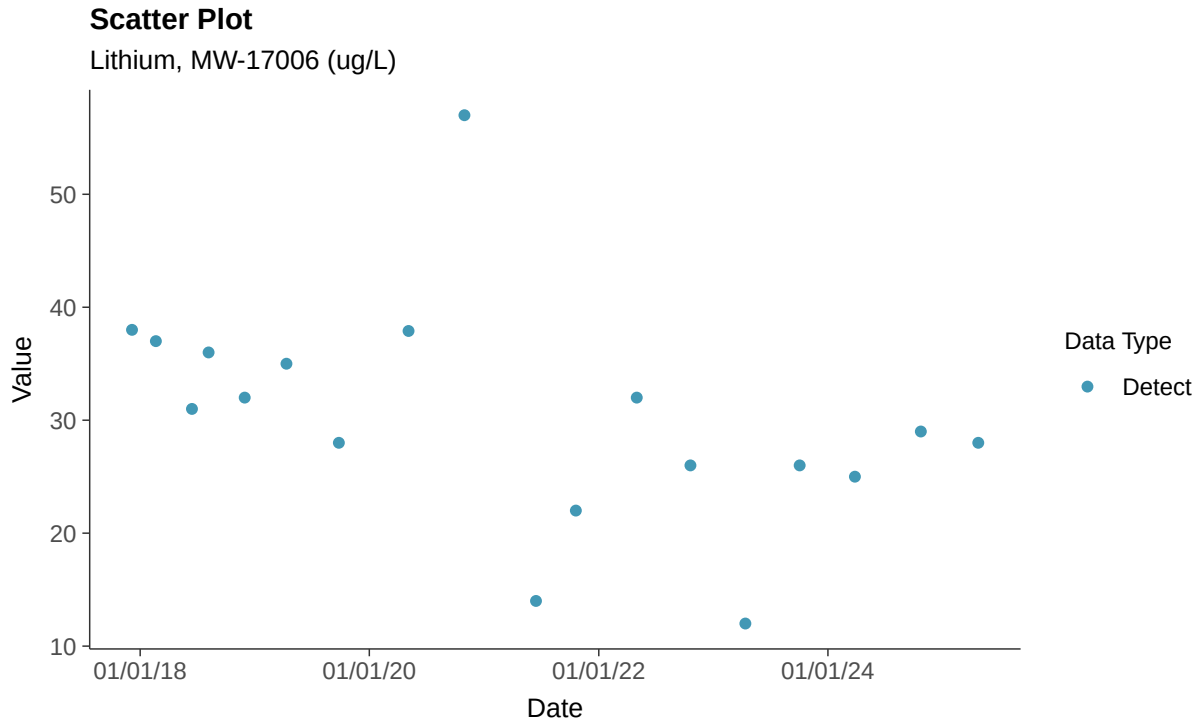
Trend Regression: Piecewise Linear-Linear

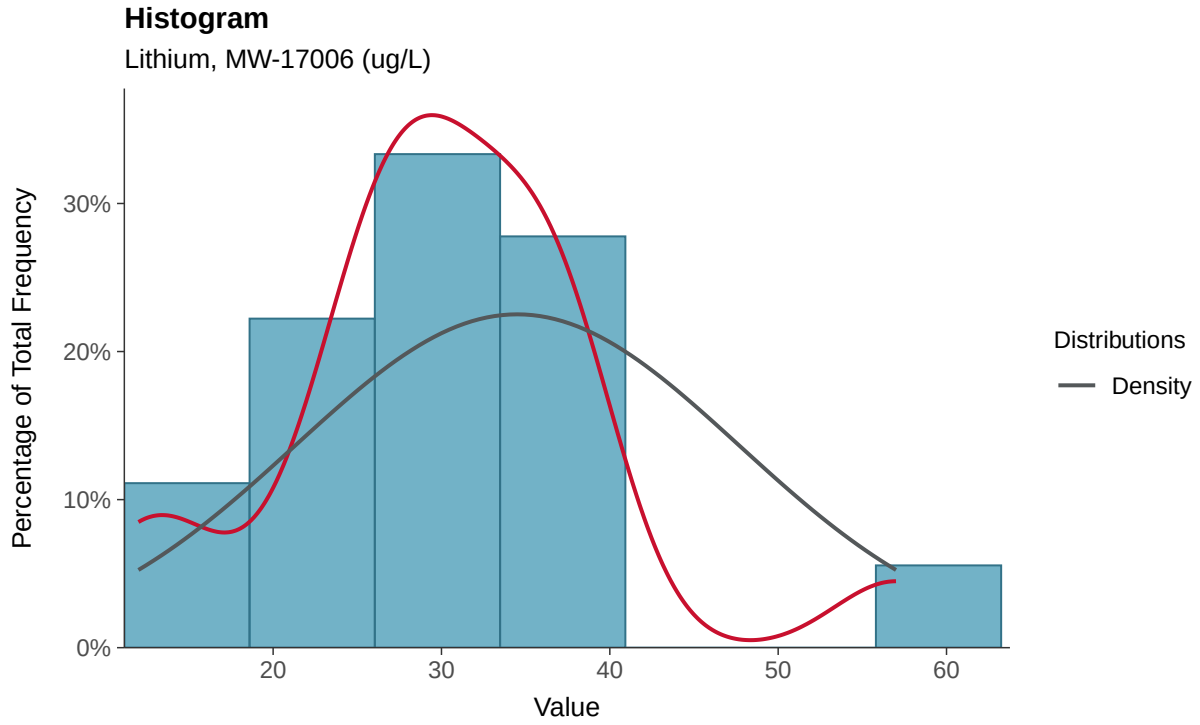
Lead, MW-17006 (ug/L)



Appendix IV: Lithium, MW-17006

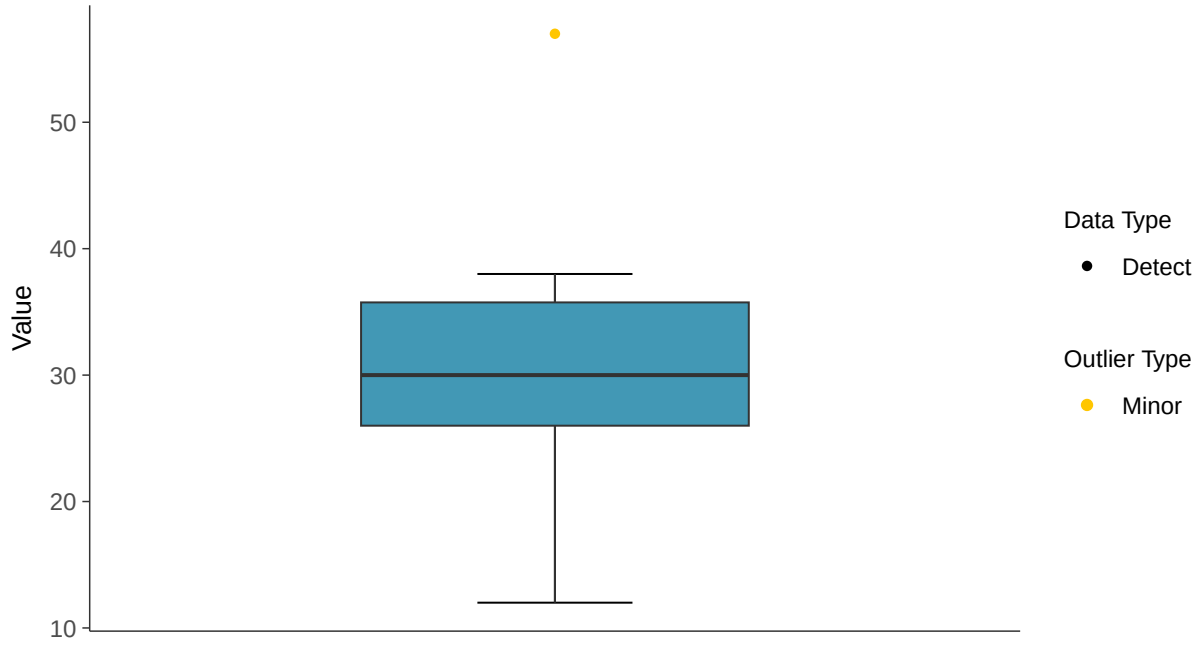
ID: 19_2_117





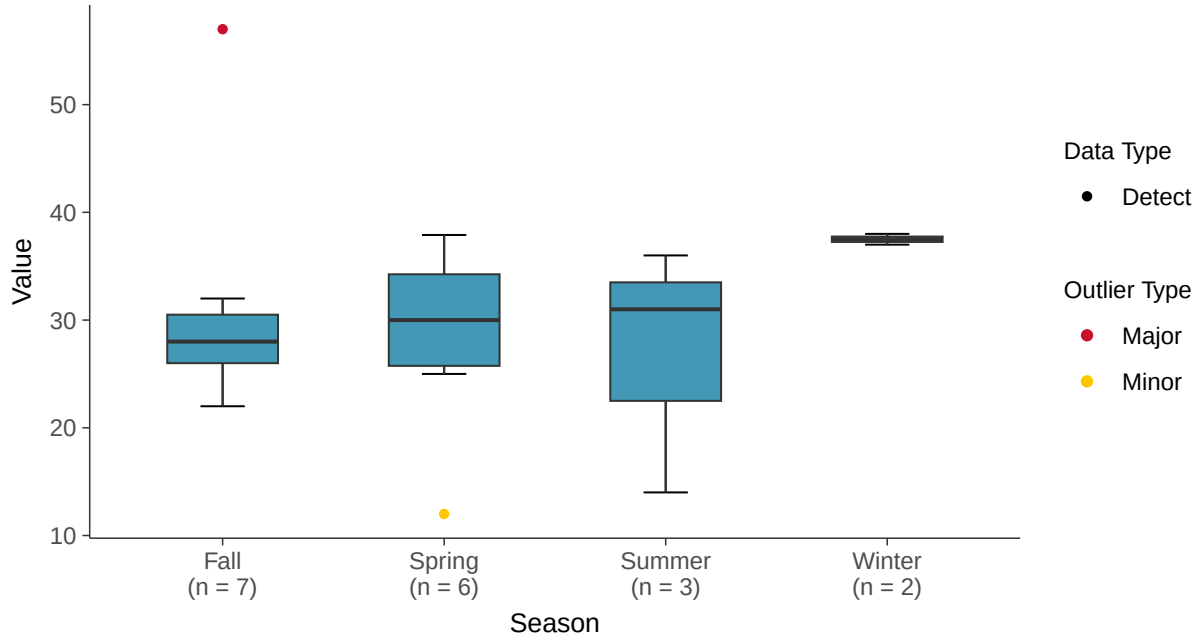
Boxplot

Lithium, MW-17006 (ug/L)



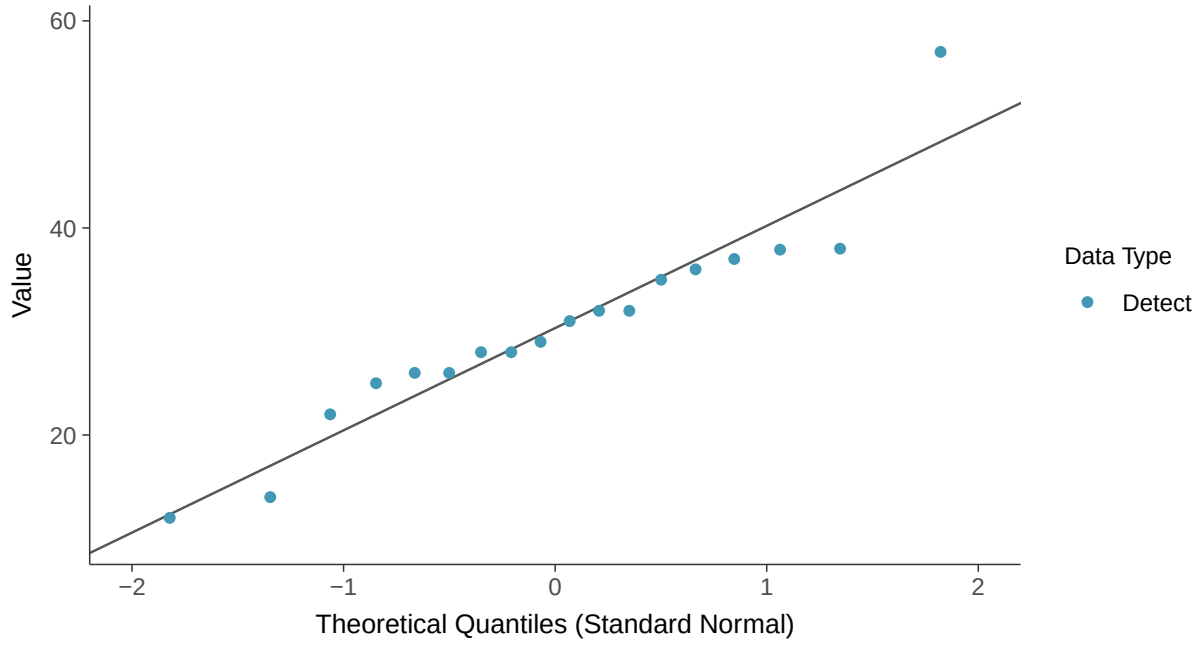
Boxplot by Season

Lithium, MW-17006 (ug/L)



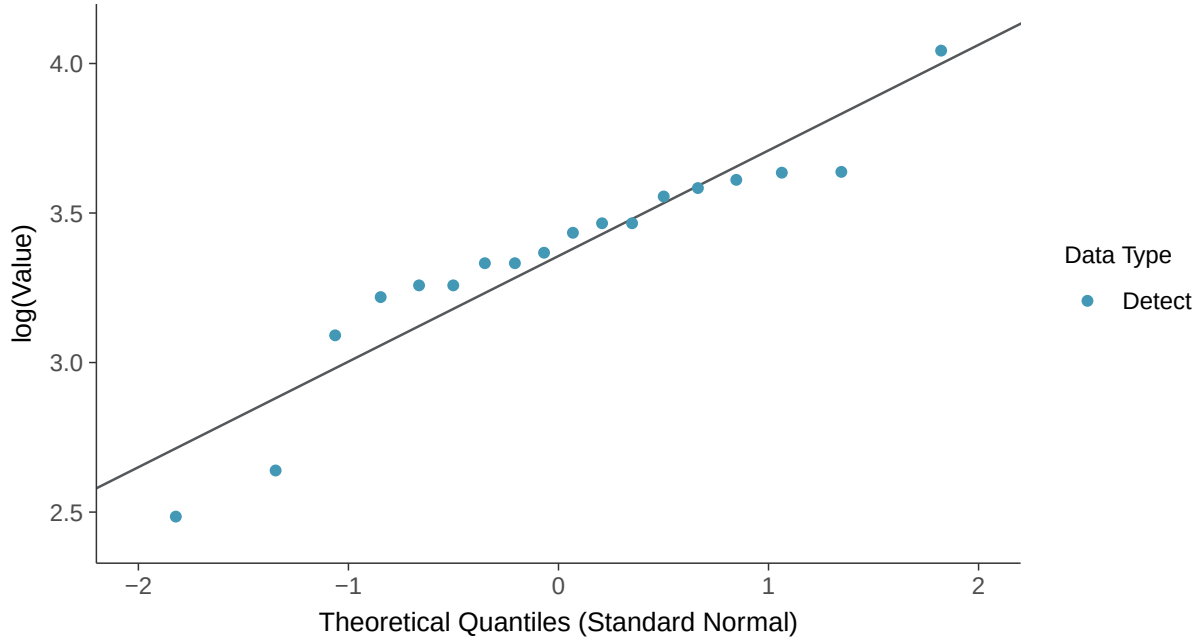
Normal Q-Q plot

Lithium, MW-17006 (ug/L)



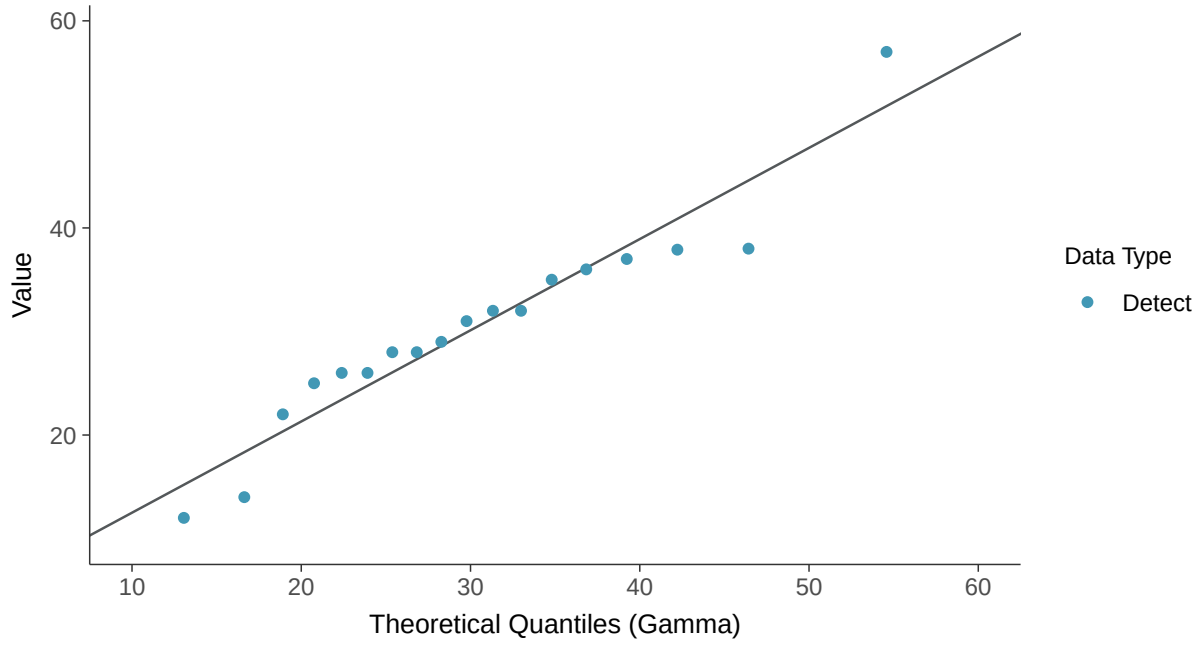
Lognormal Q-Q plot

Lithium, MW-17006 (ug/L)



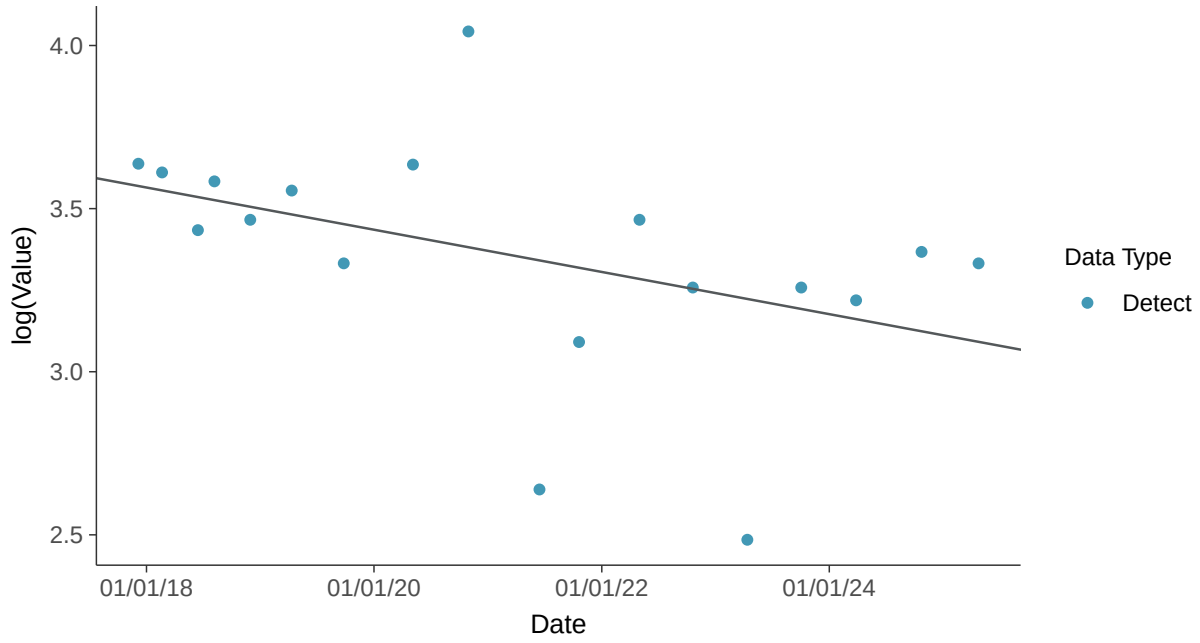
Gamma Q-Q plot

Lithium, MW-17006 (ug/L)



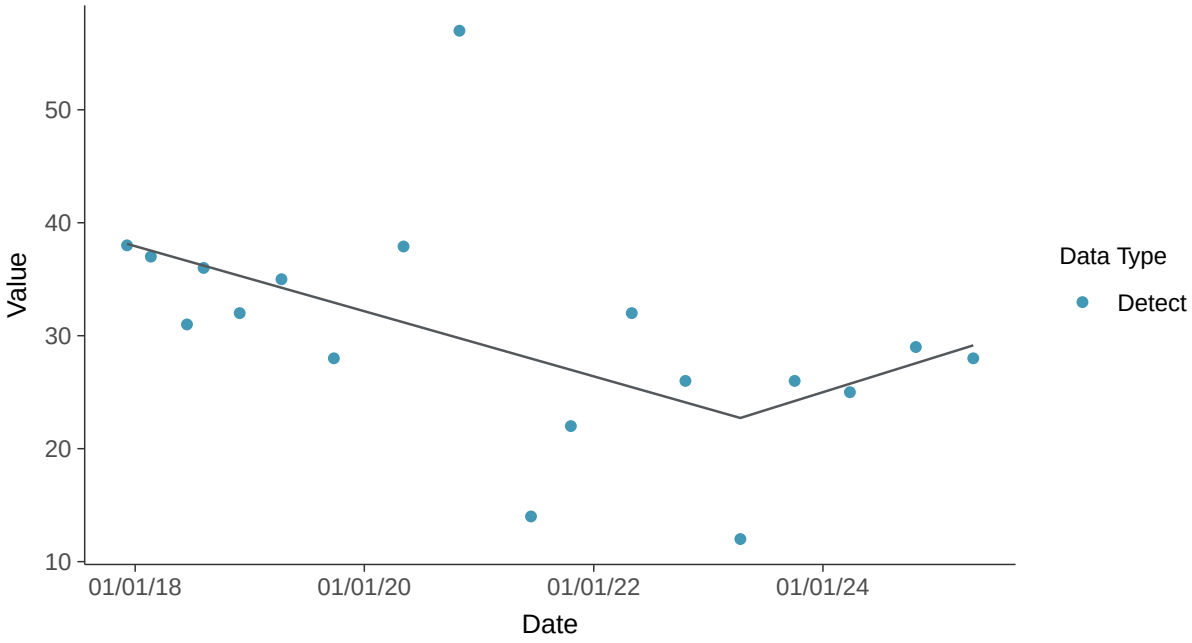
Trend Regression: Lognormal MLE

Lithium, MW-17006 (ug/L)



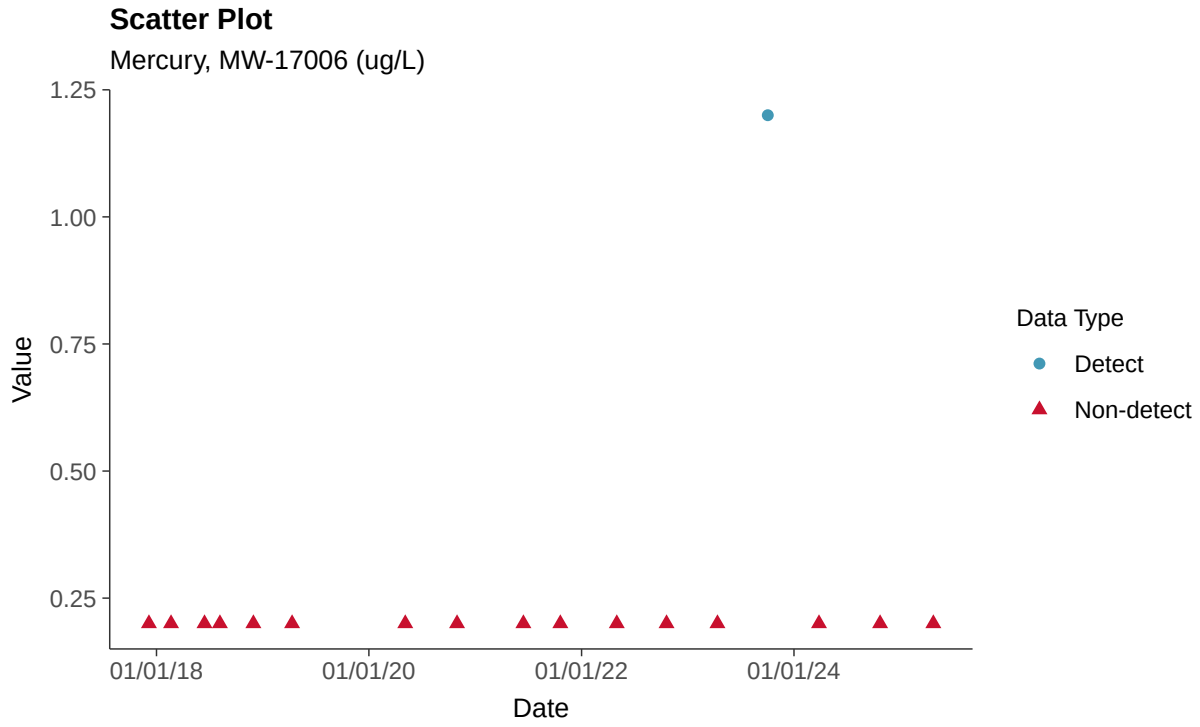
Trend Regression: Piecewise Linear-Linear

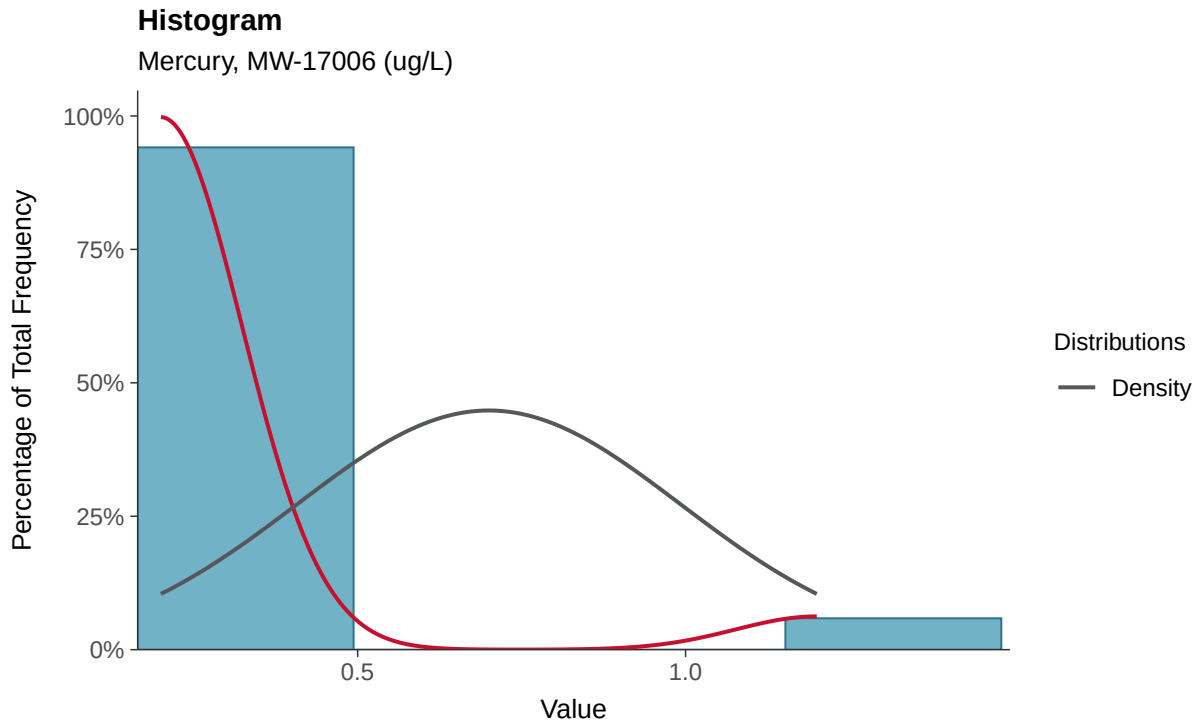
Lithium, MW-17006 (ug/L)



Appendix IV: Mercury, MW-17006

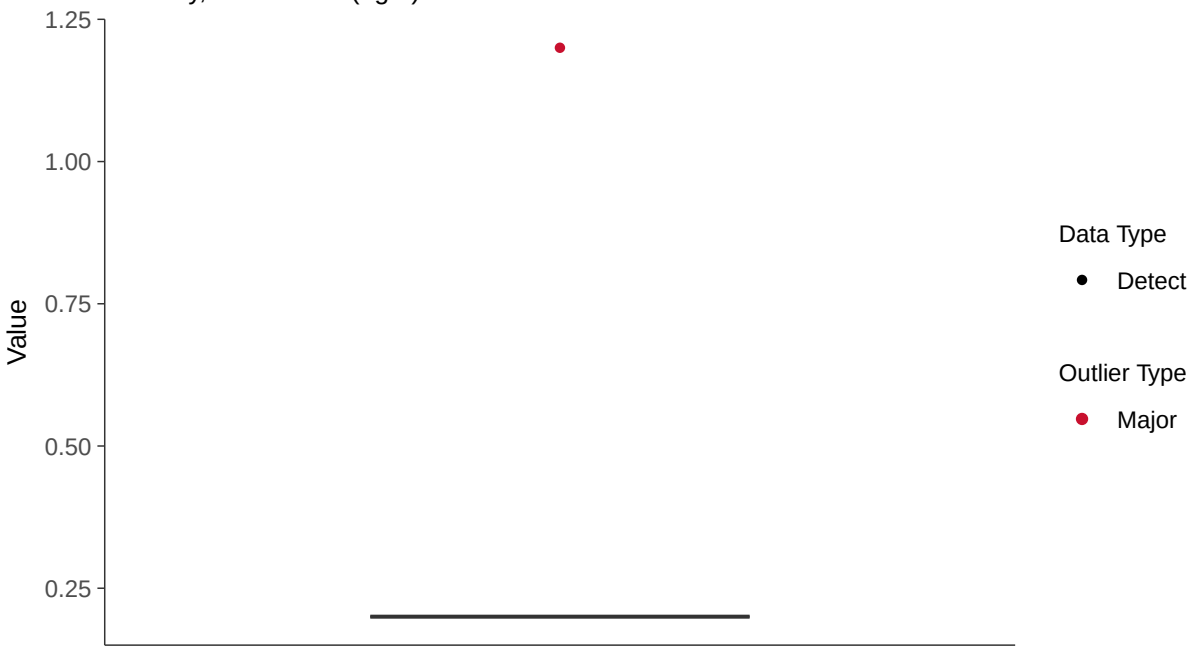
ID: 19_2_118





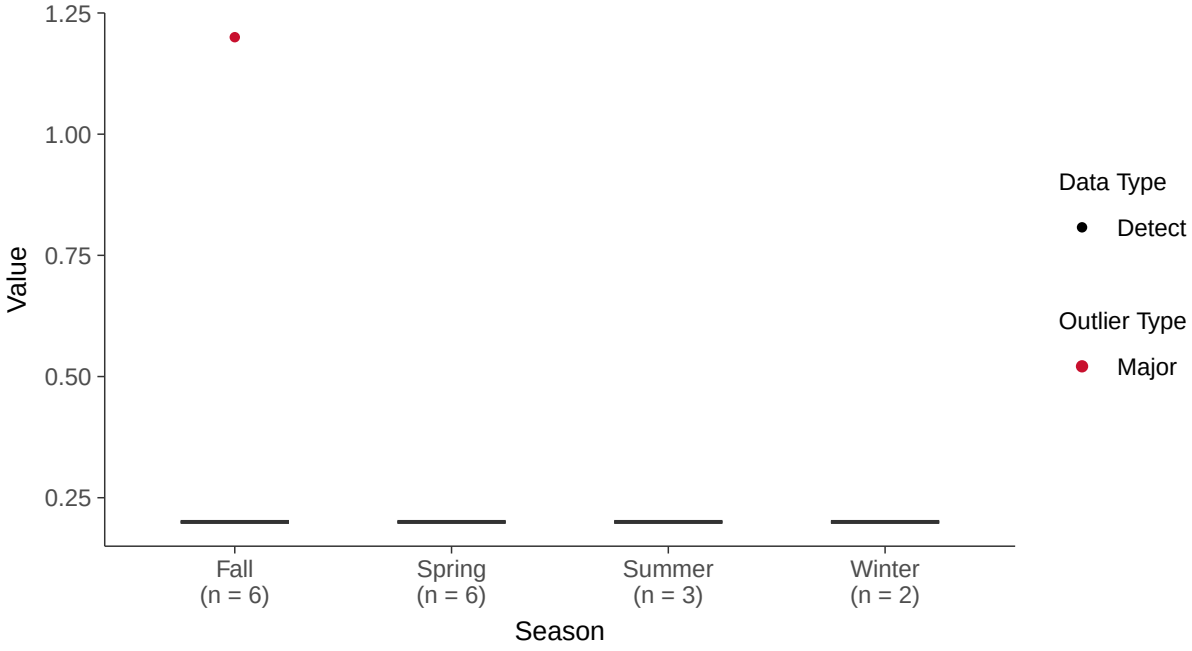
Boxplot

Mercury, MW-17006 (ug/L)



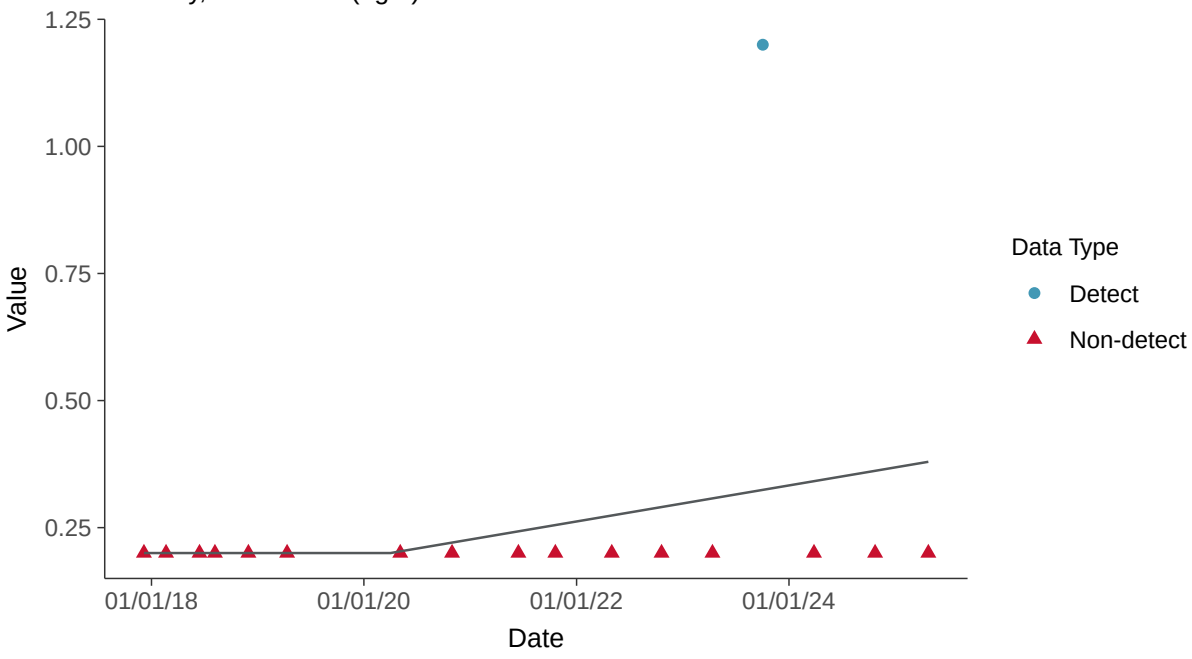
Boxplot by Season

Mercury, MW-17006 (ug/L)



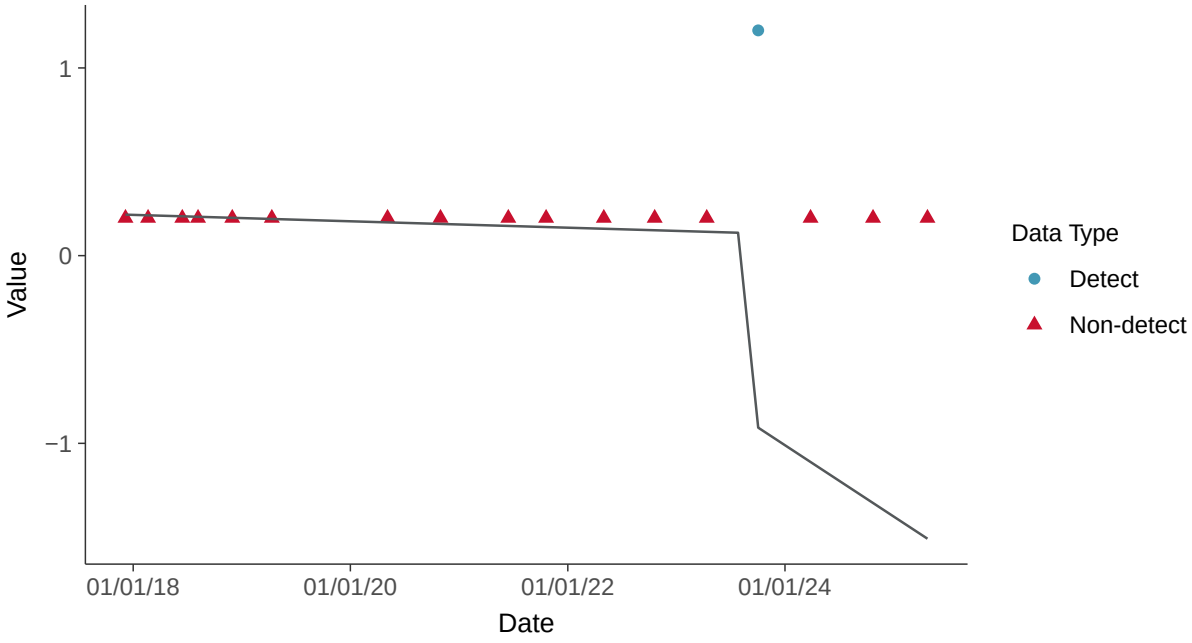
Trend Regression: Piecewise Linear-Linear

Mercury, MW-17006 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Mercury, MW-17006 (ug/L)

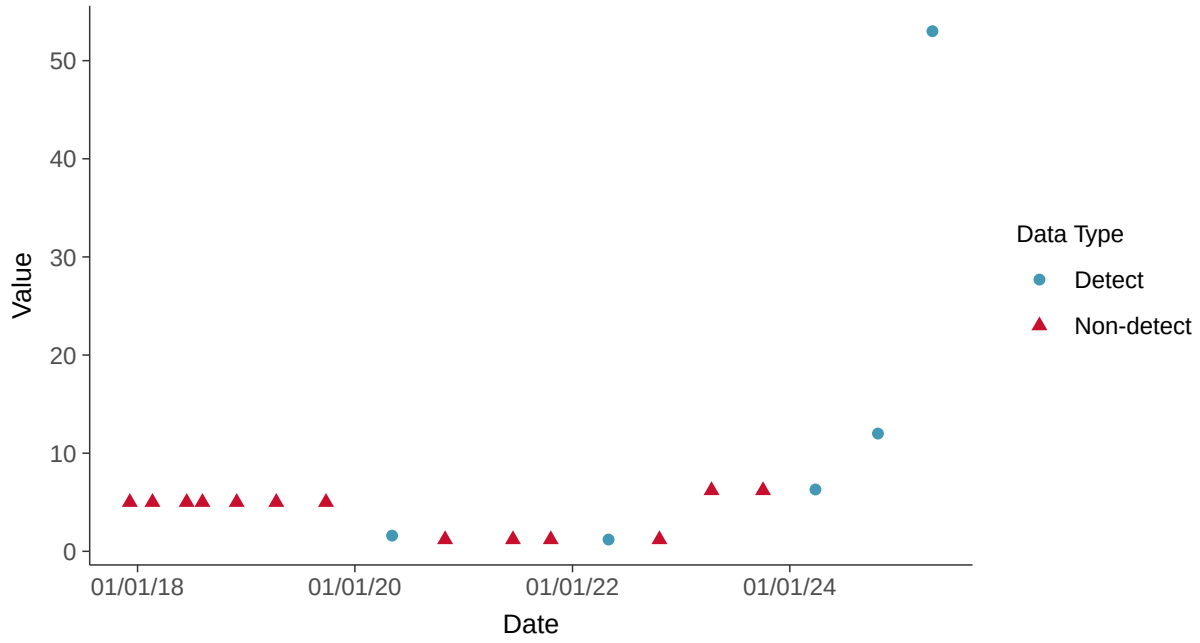


Appendix IV: Molybdenum, MW-17006

ID: 19_2_119

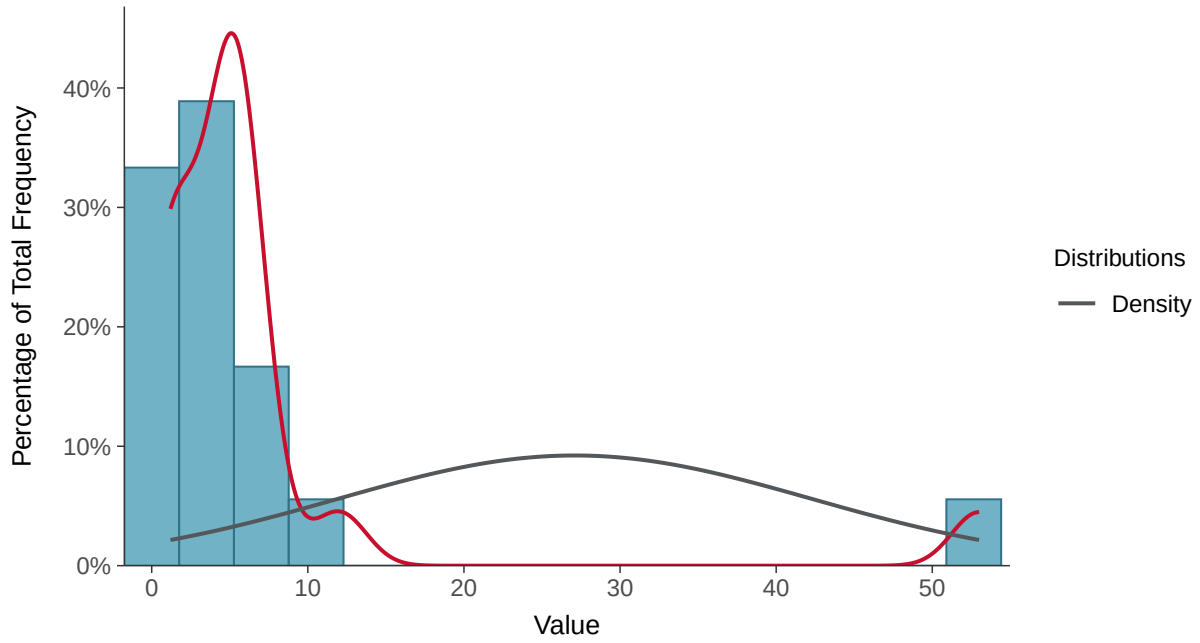
Scatter Plot

Molybdenum, MW-17006 (ug/L)



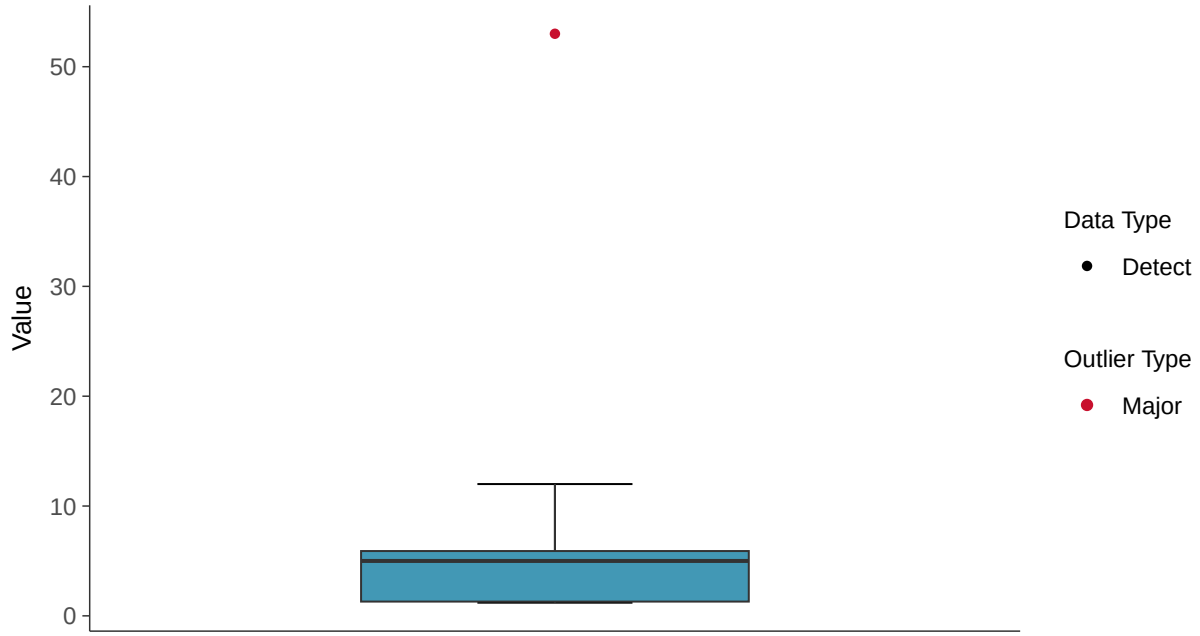
Histogram

Molybdenum, MW-17006 (ug/L)



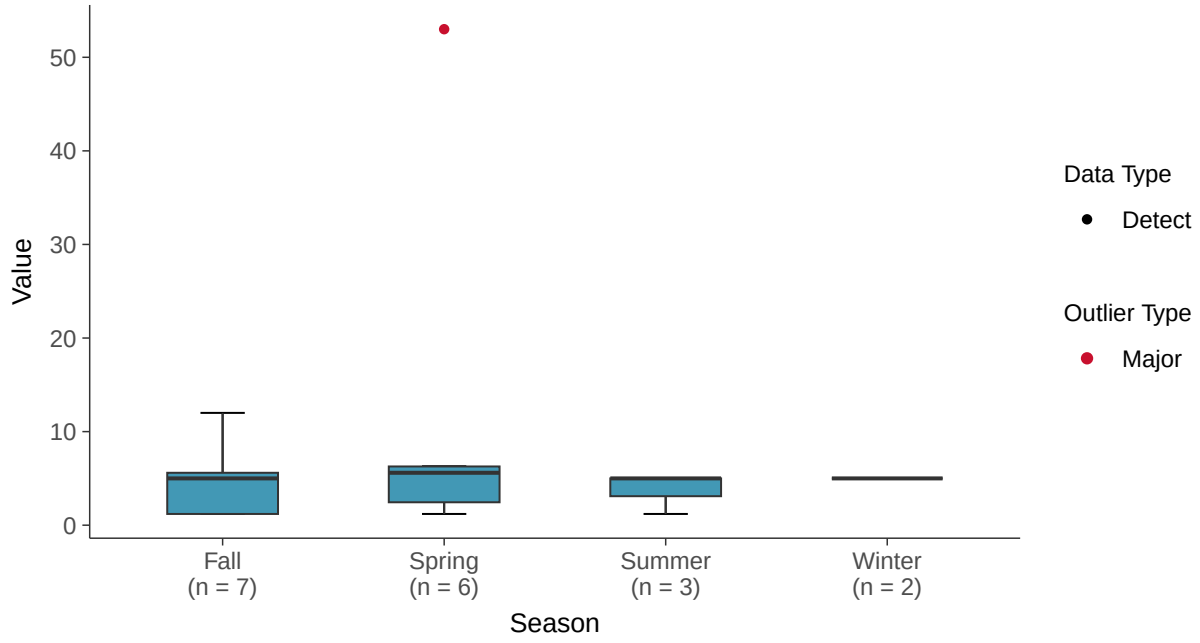
Boxplot

Molybdenum, MW-17006 (ug/L)



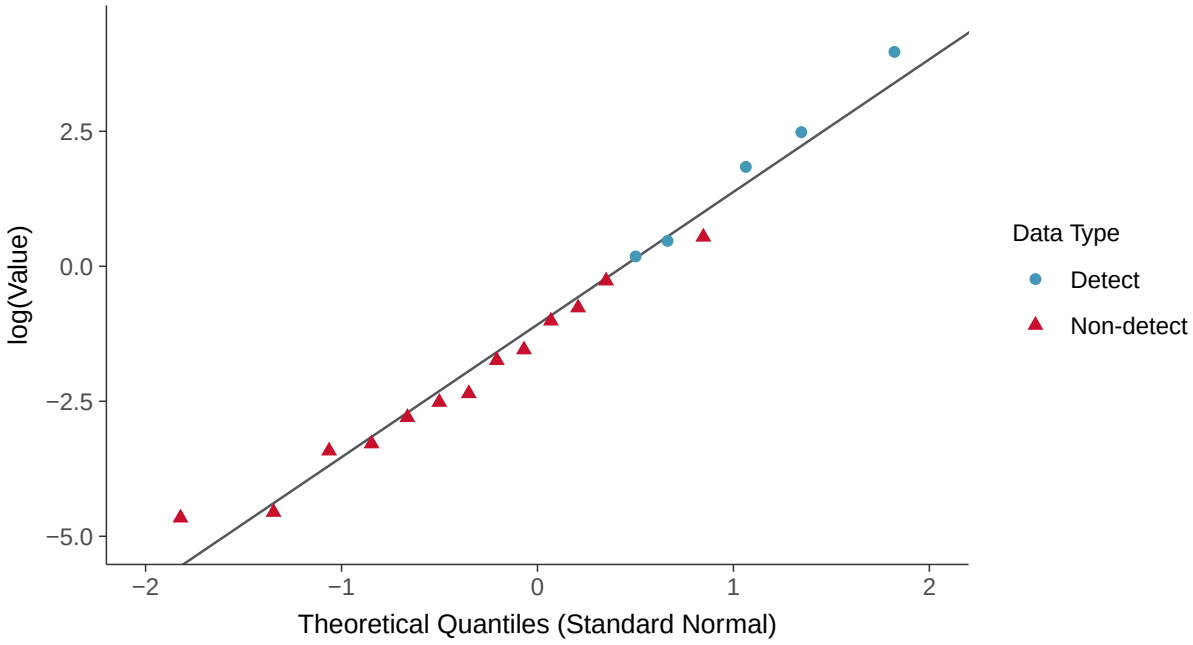
Boxplot by Season

Molybdenum, MW-17006 (ug/L)



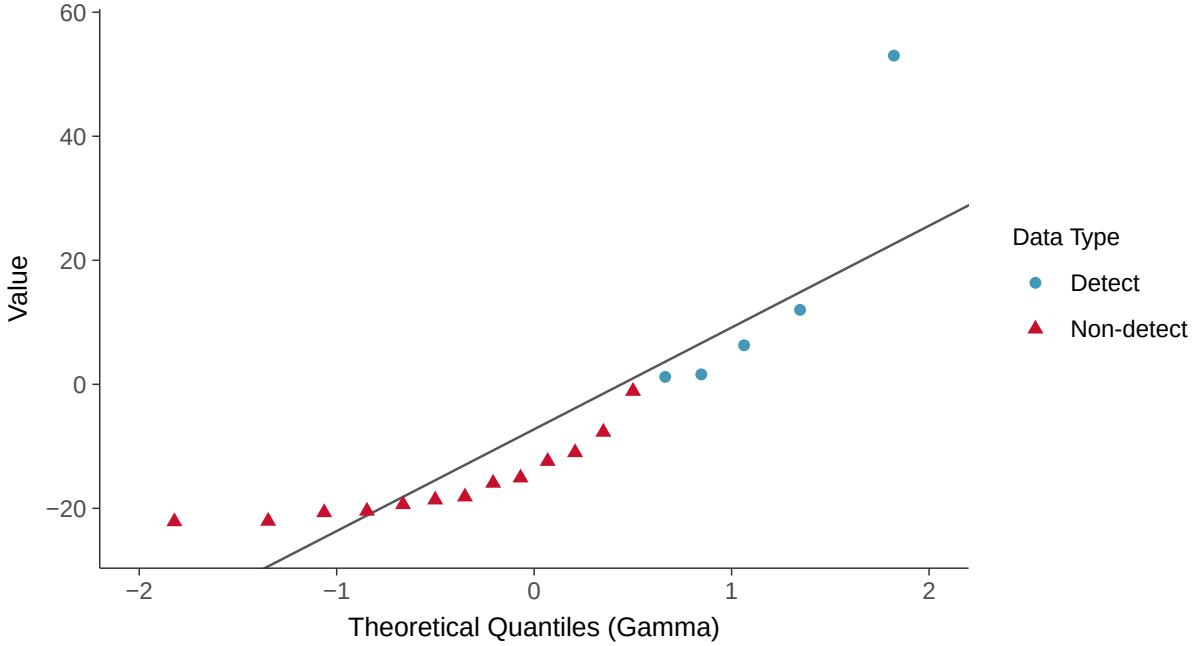
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17006 (ug/L)



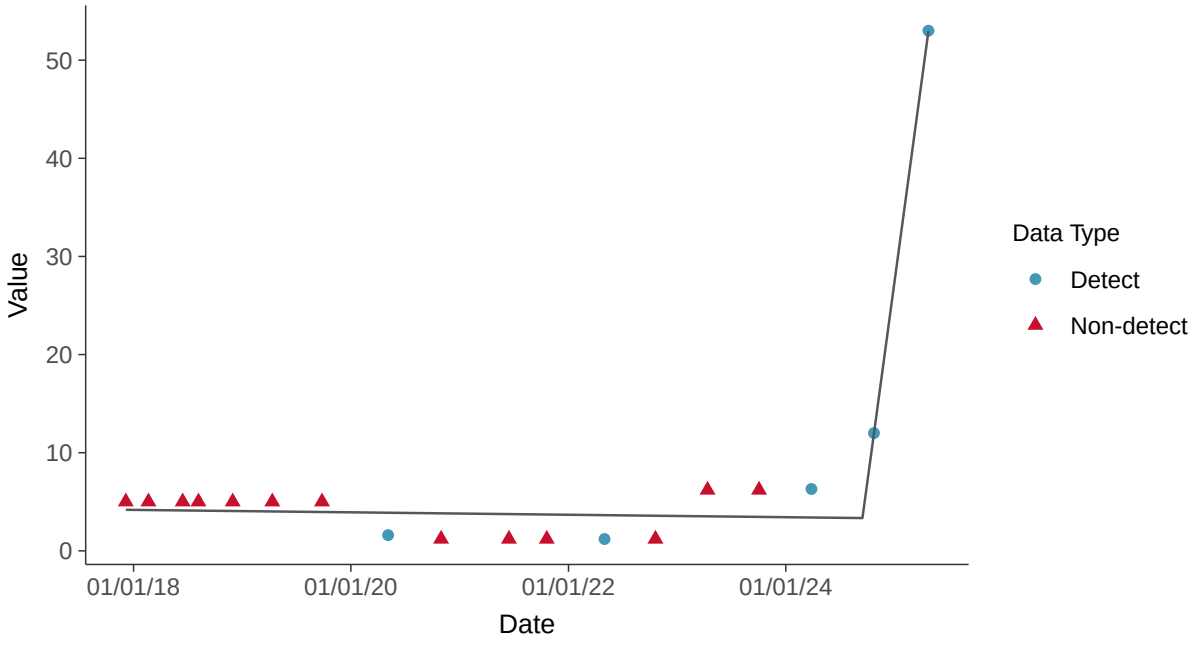
Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-17006 (ug/L)



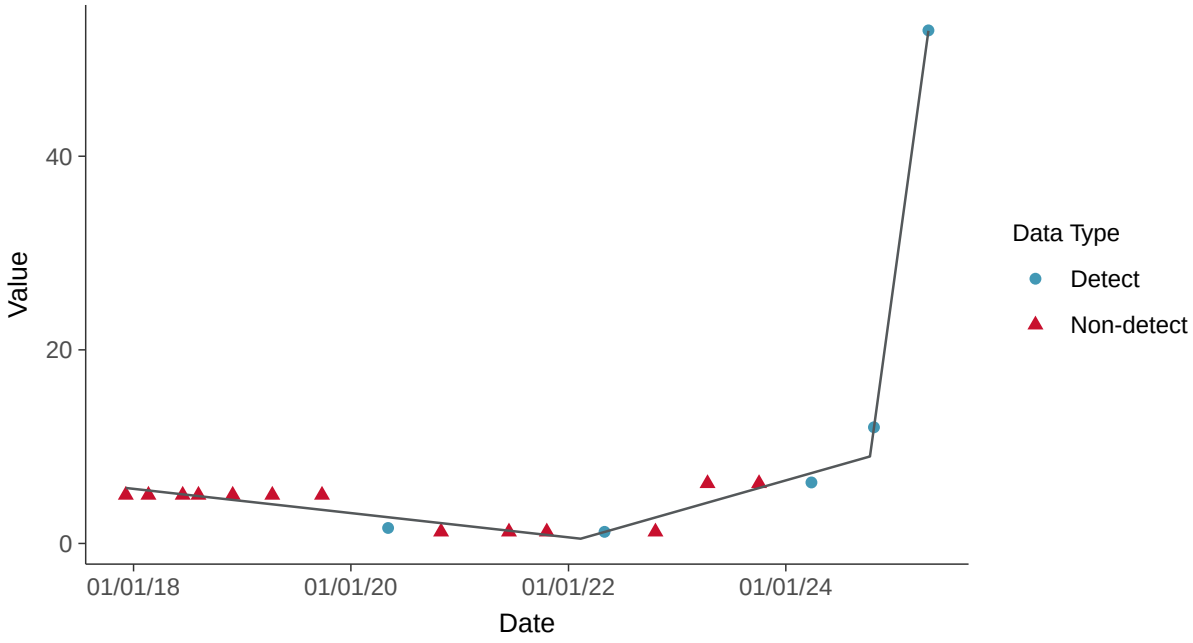
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-17006 (ug/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-17006 (ug/L)

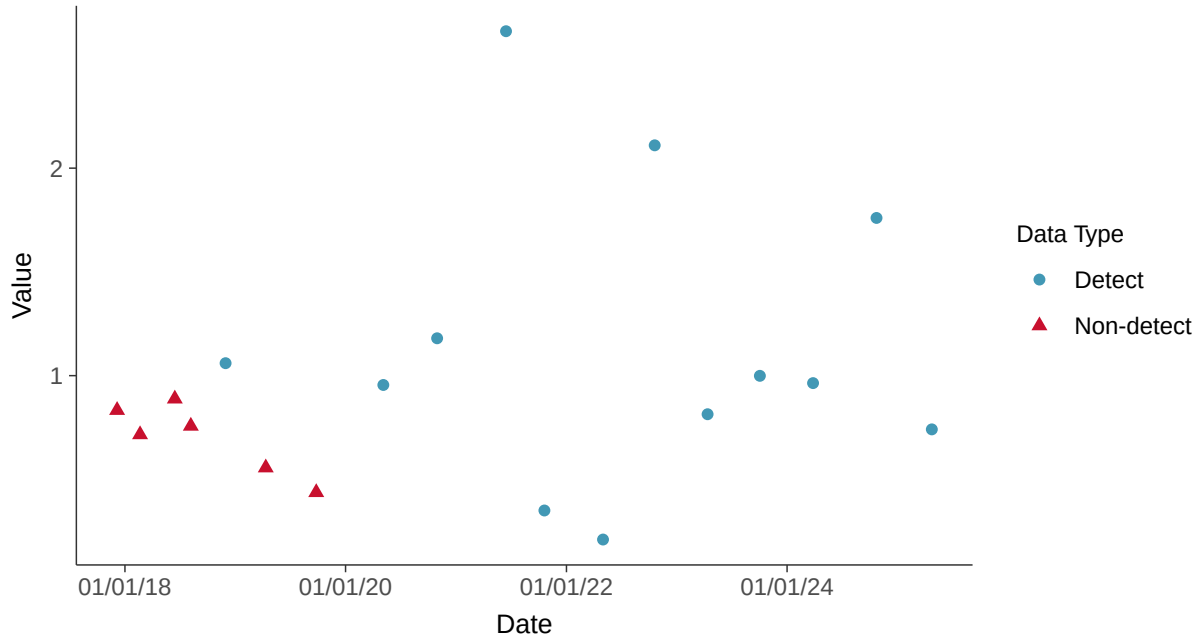


Appendix IV: Radium-226+228, MW-17006

ID: 19_2_125

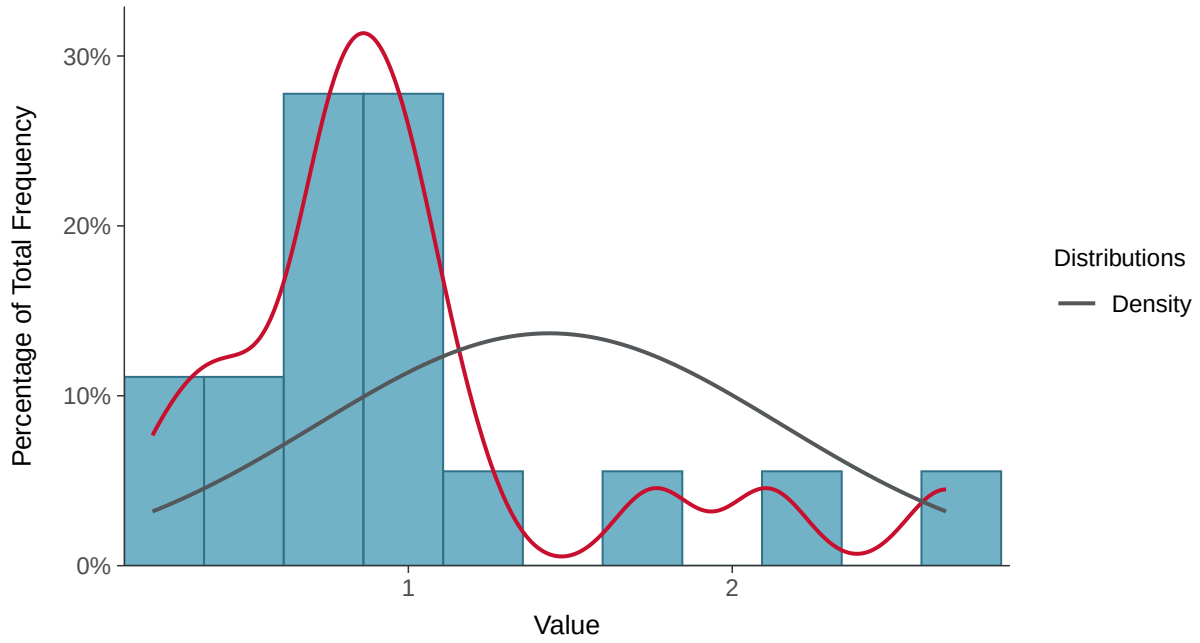
Scatter Plot

Radium-226+228, MW-17006 (pCi/L)



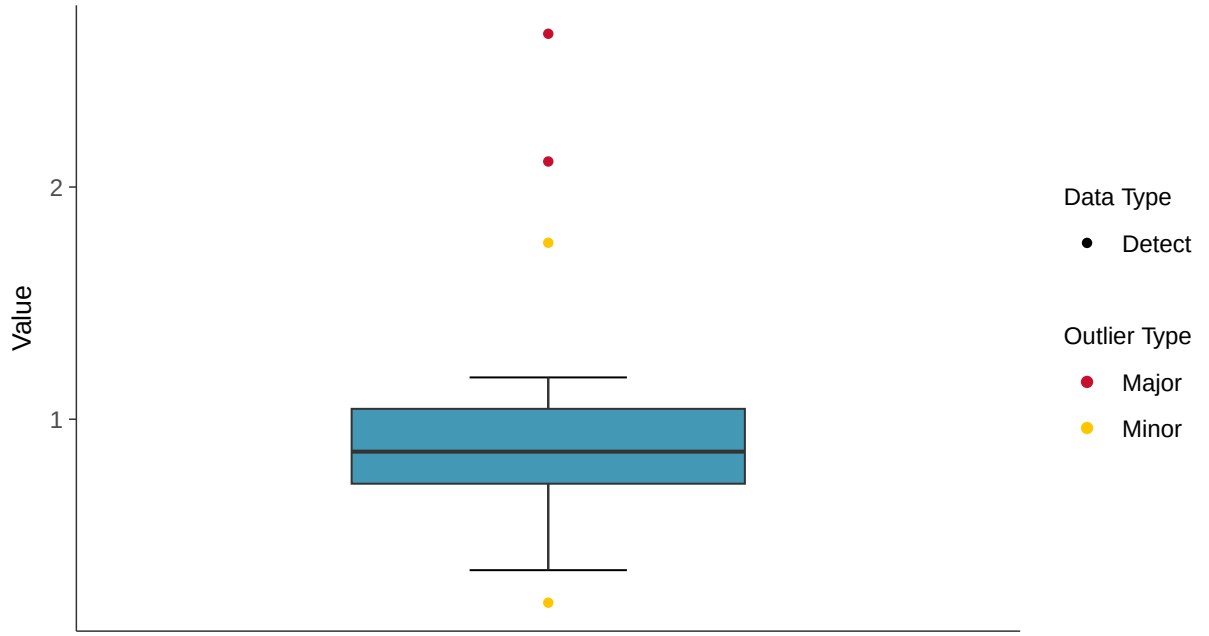
Histogram

Radium-226+228, MW-17006 (pCi/L)



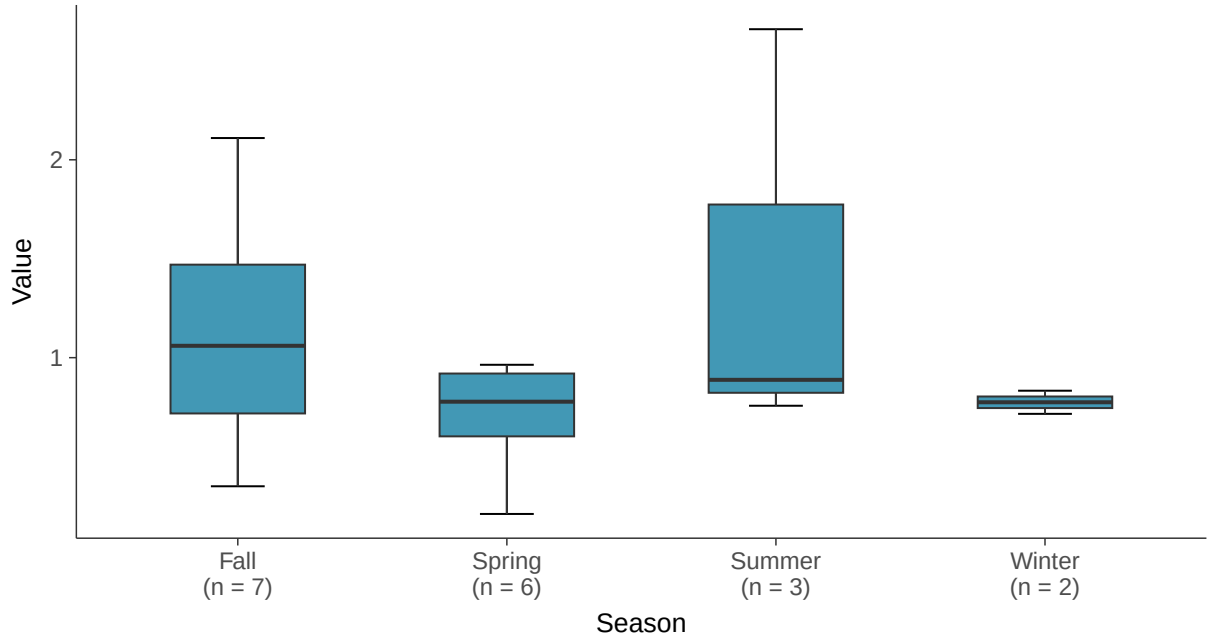
Boxplot

Radium-226+228, MW-17006 (pCi/L)



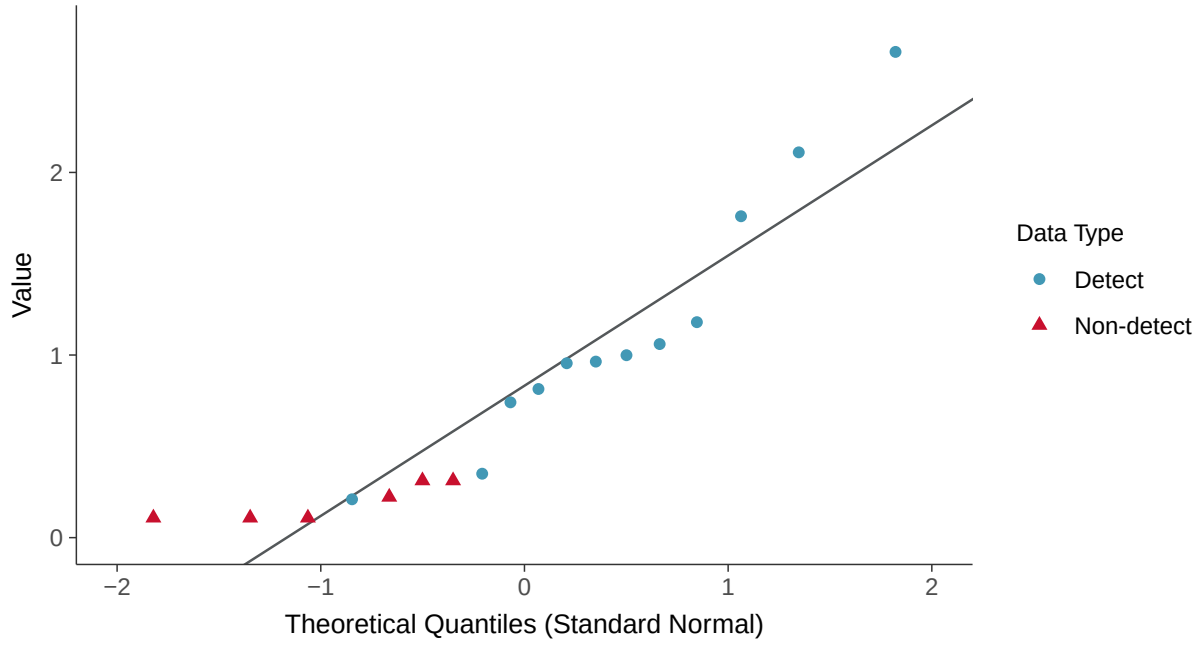
Boxplot by Season

Radium-226+228, MW-17006 (pCi/L)



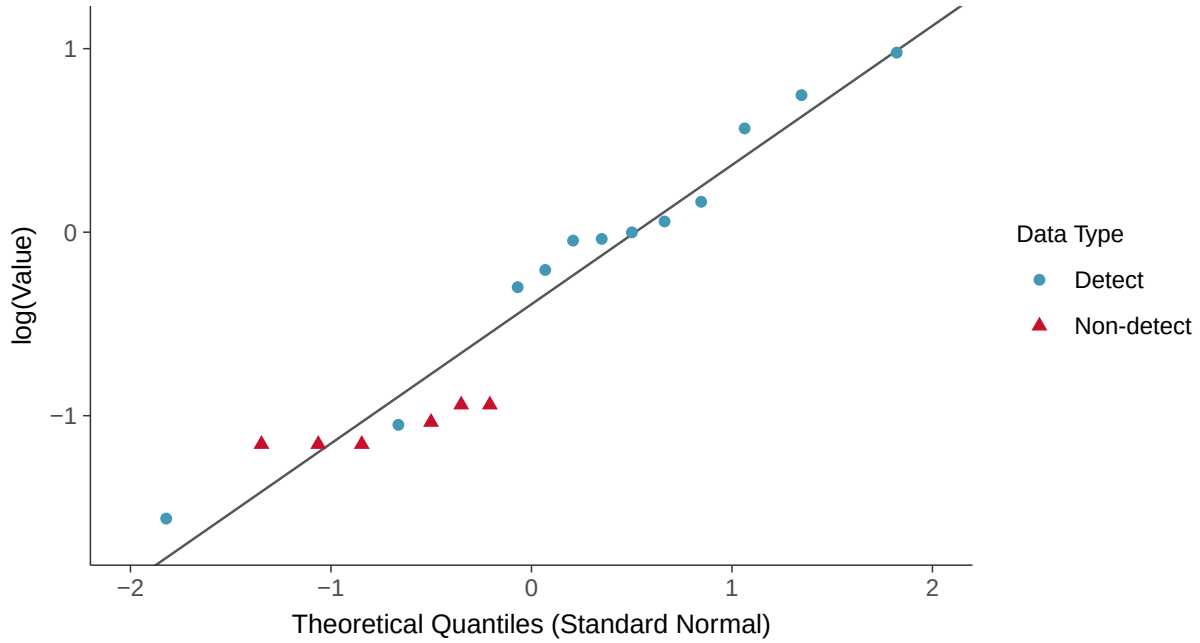
Normal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-17006 (pCi/L)



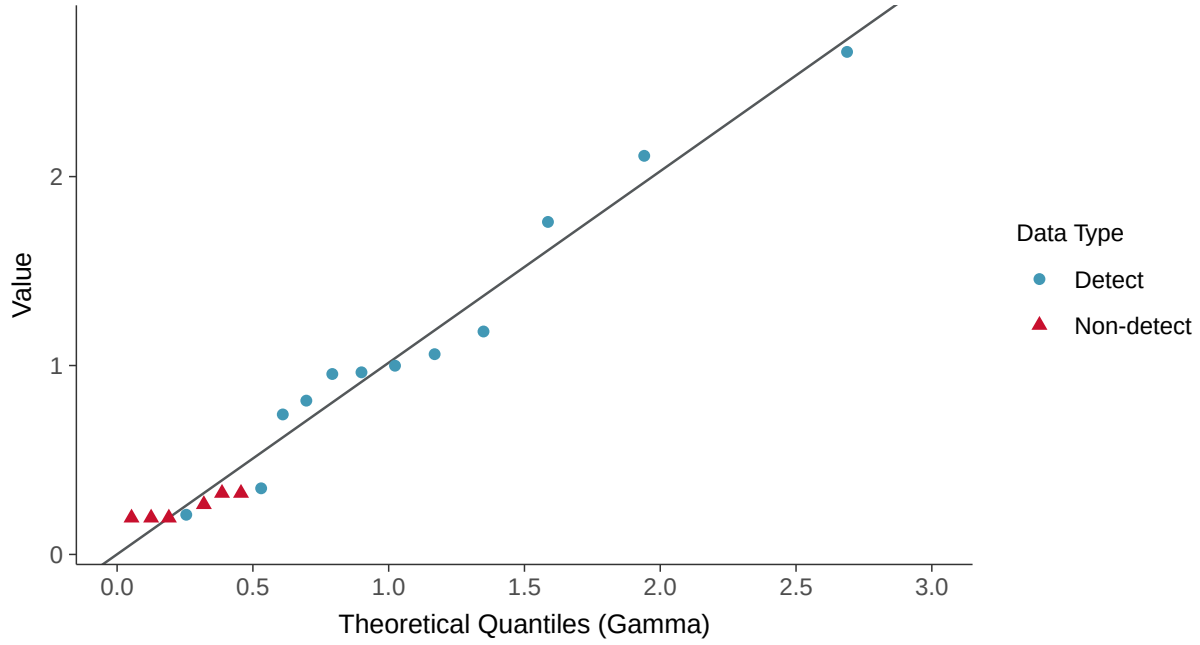
Lognormal Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-17006 (pCi/L)



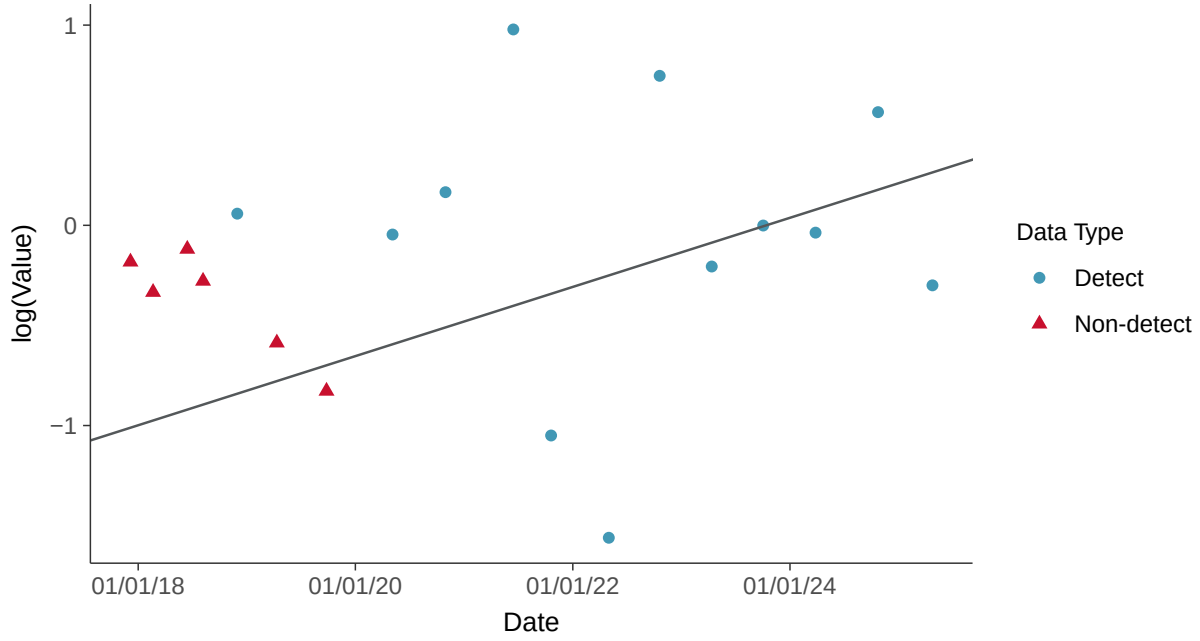
Gamma Q-Q plot using ROS Imputed Estimates

Radium-226+228, MW-17006 (pCi/L)



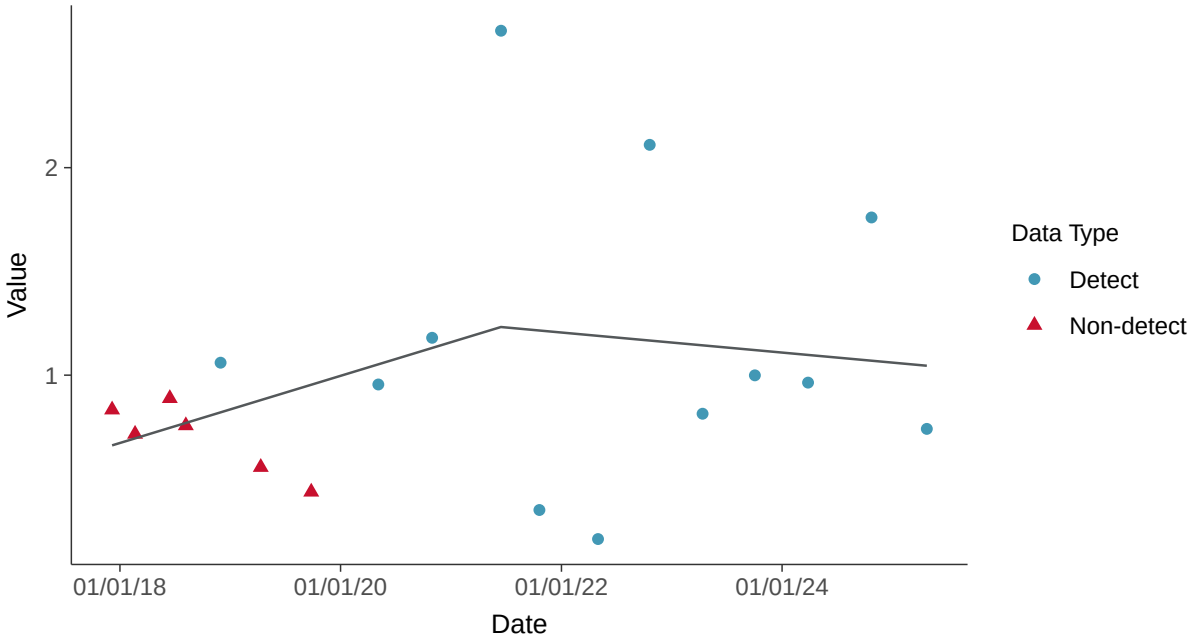
Trend Regression: Lognormal MLE

Radium-226+228, MW-17006 (pCi/L)



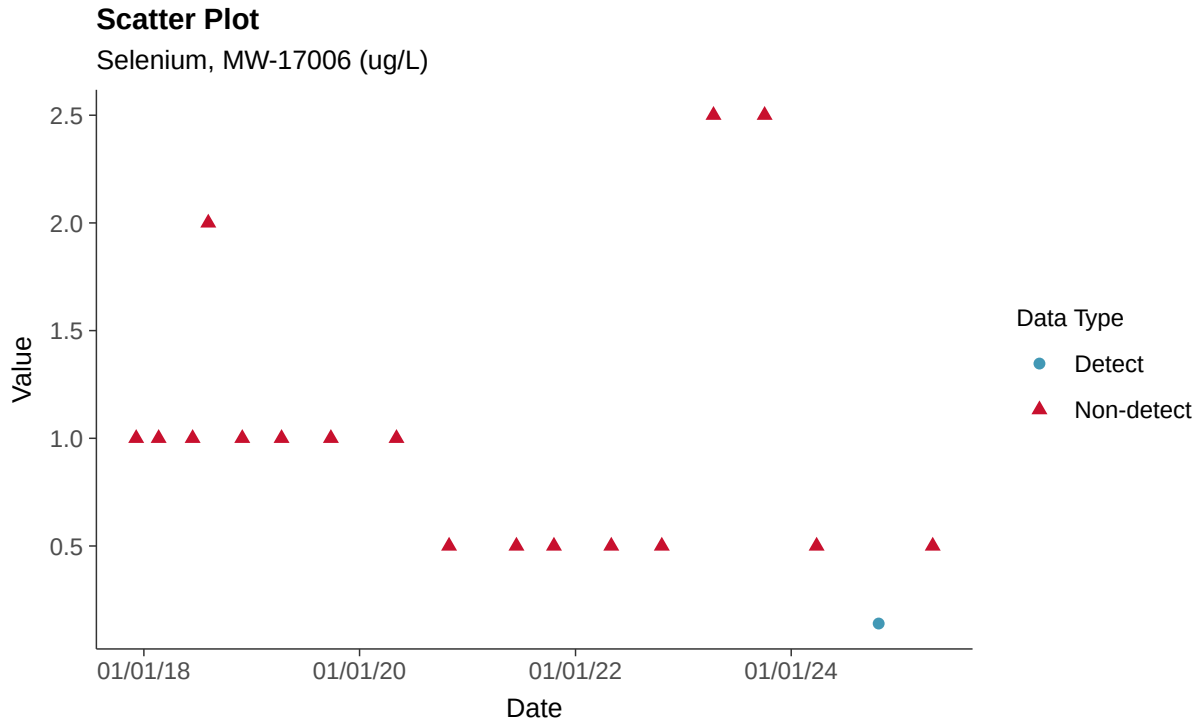
Trend Regression: Piecewise Linear-Linear

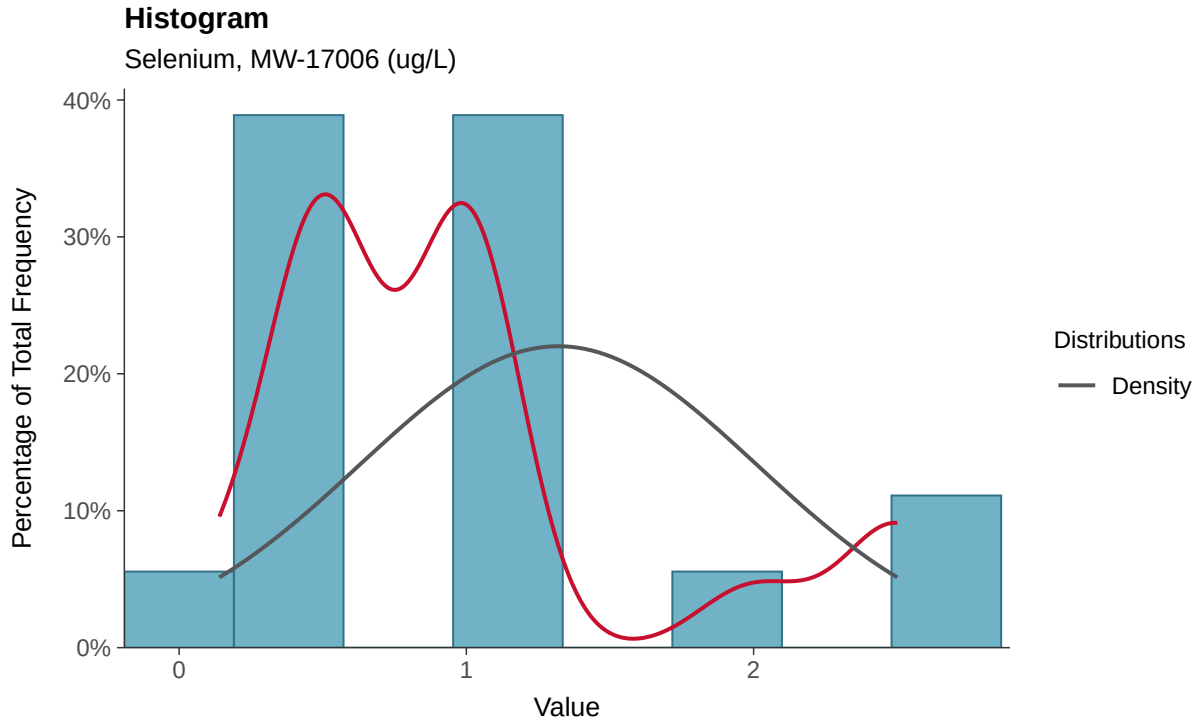
Radium-226+228, MW-17006 (pCi/L)



Appendix IV: Selenium, MW-17006

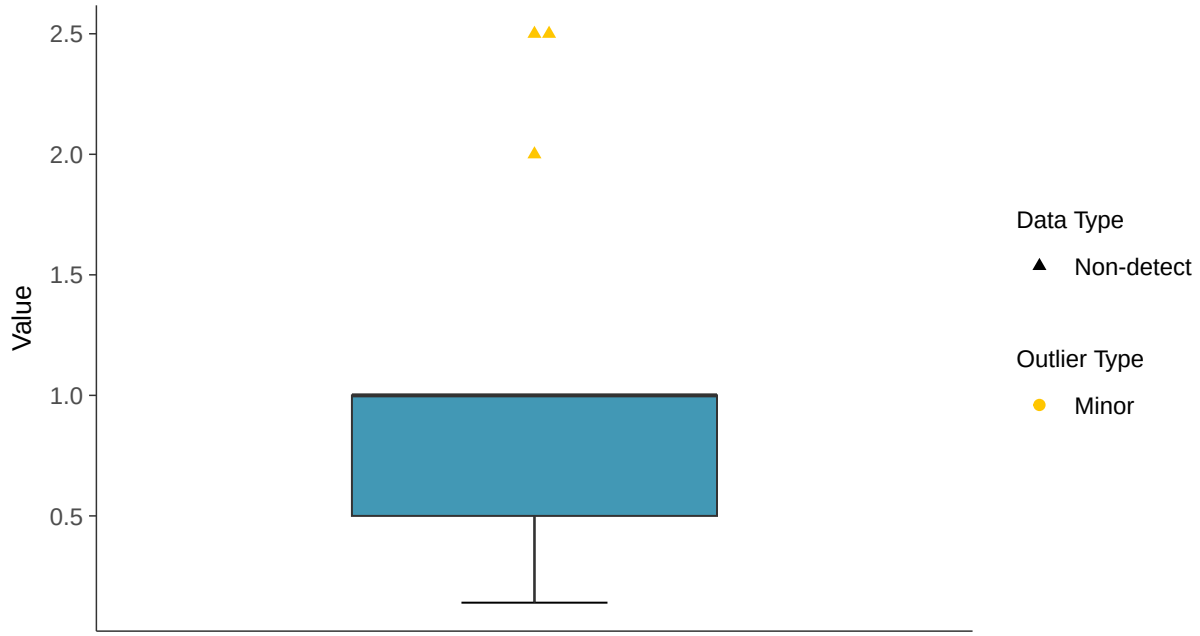
ID: 19_2_127





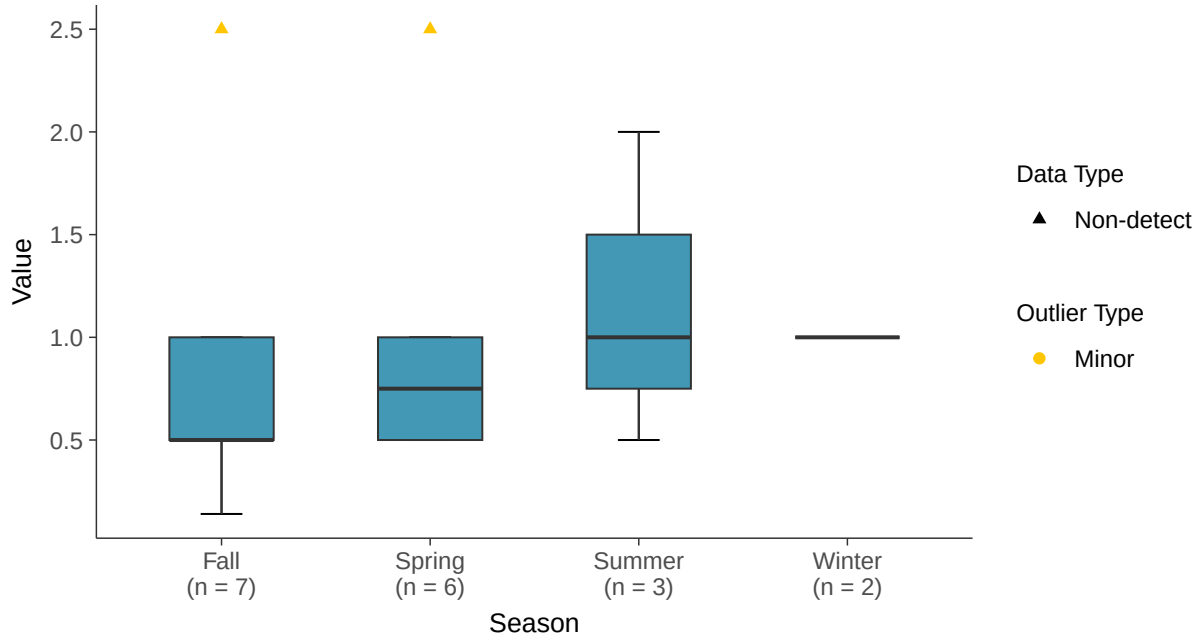
Boxplot

Selenium, MW-17006 (ug/L)



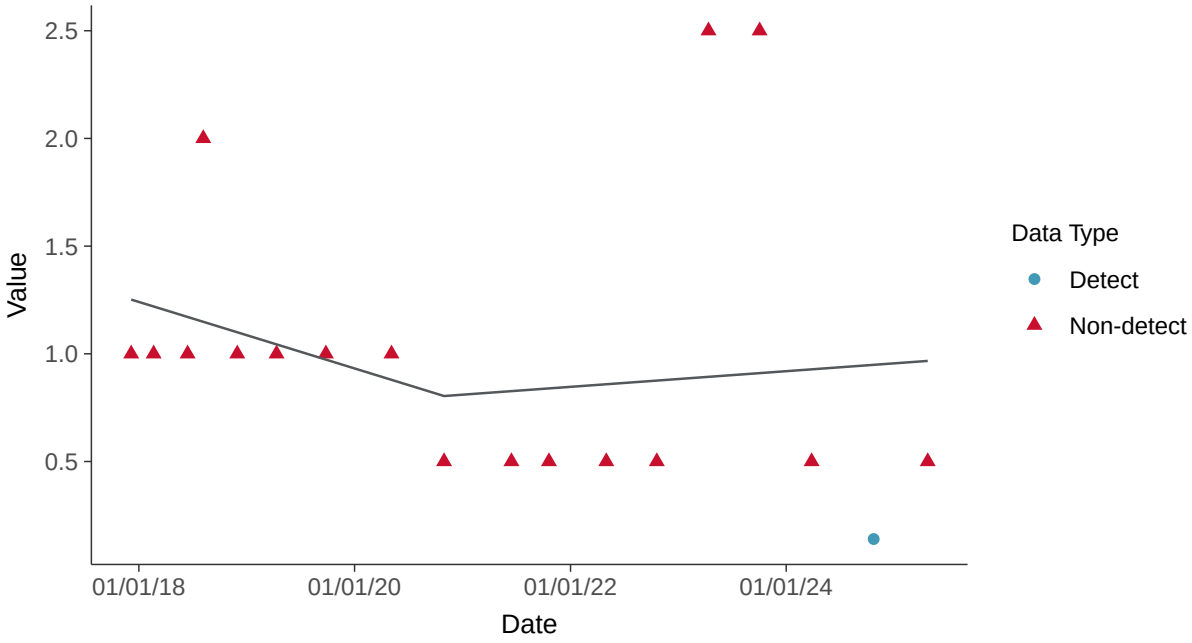
Boxplot by Season

Selenium, MW-17006 (ug/L)



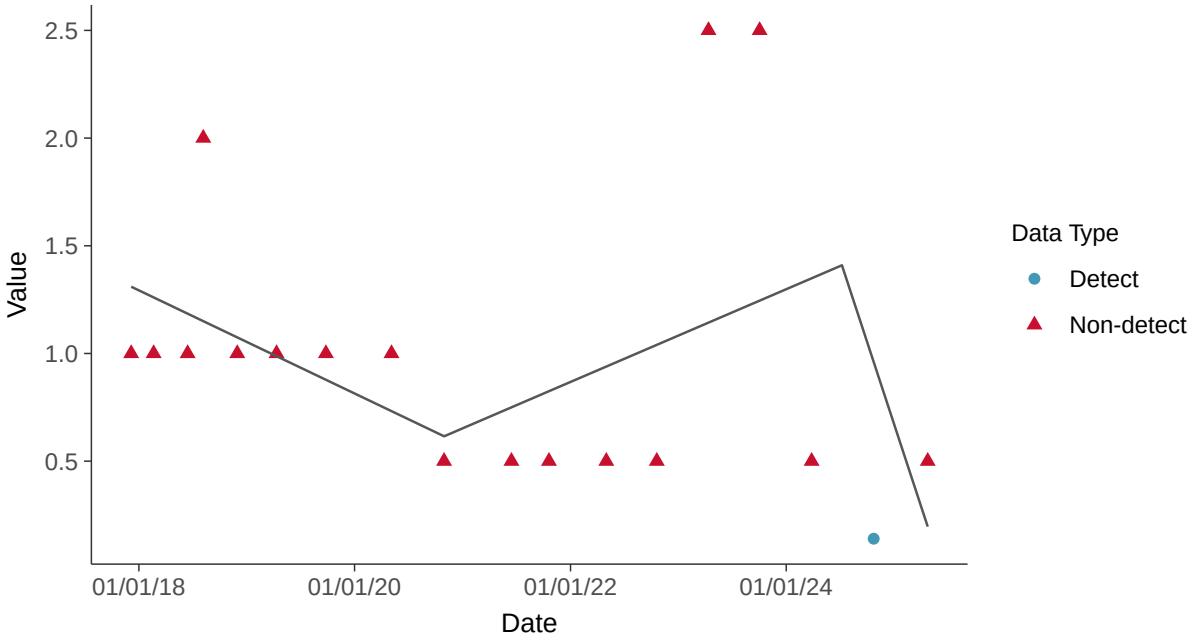
Trend Regression: Piecewise Linear-Linear

Selenium, MW-17006 (ug/L)



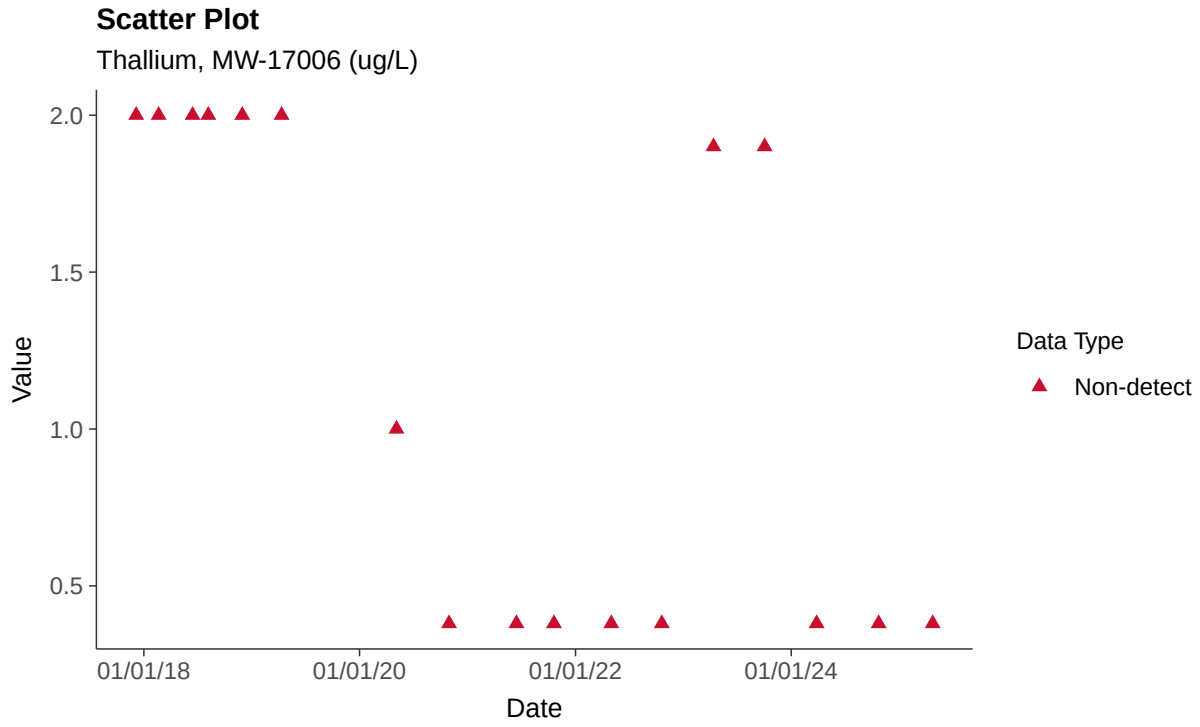
Trend Regression: Piecewise Linear-Linear-Linear

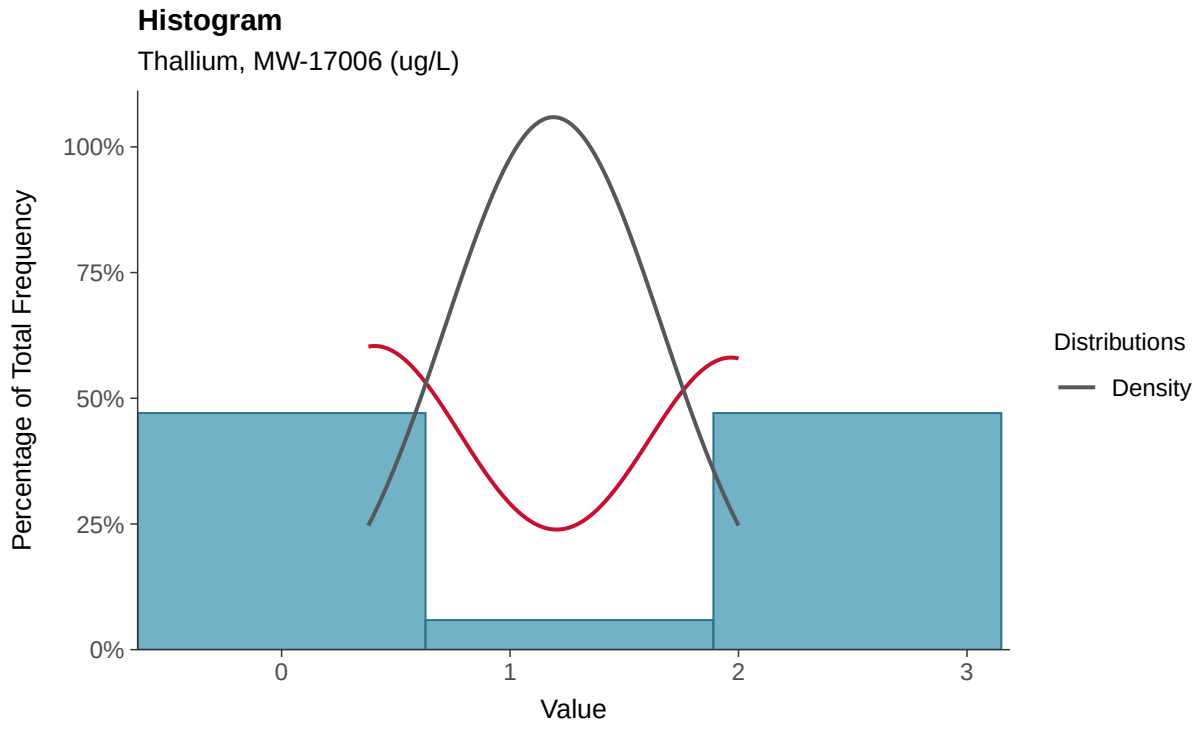
Selenium, MW-17006 (ug/L)



Appendix IV: Thallium, MW-17006

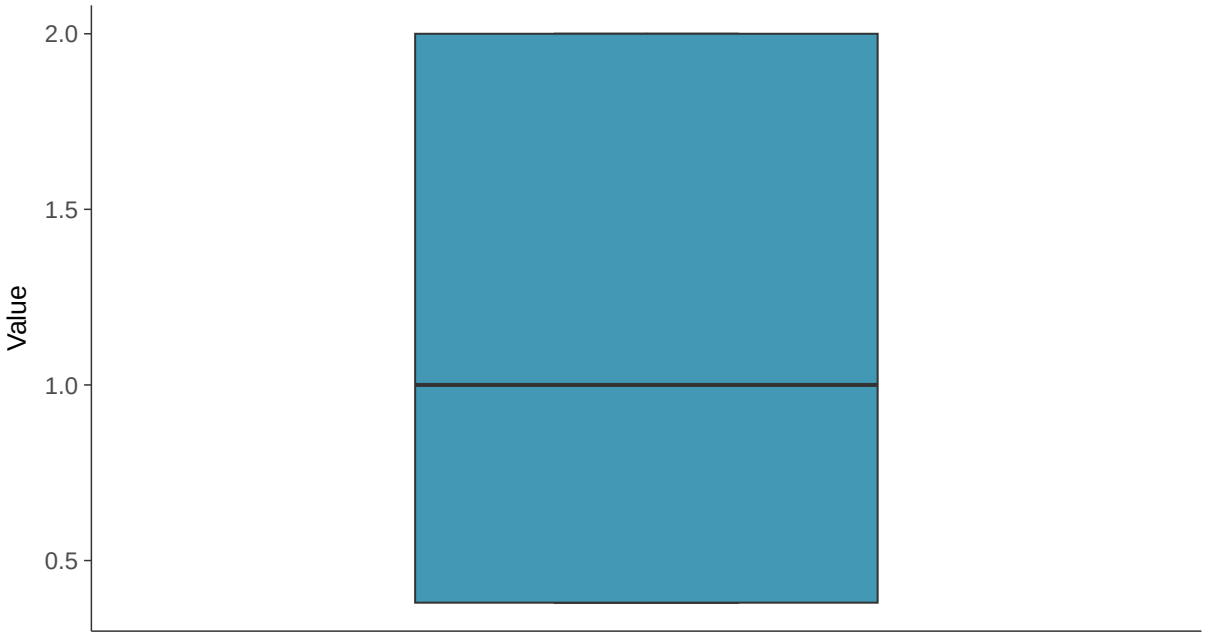
ID: 19_2_131





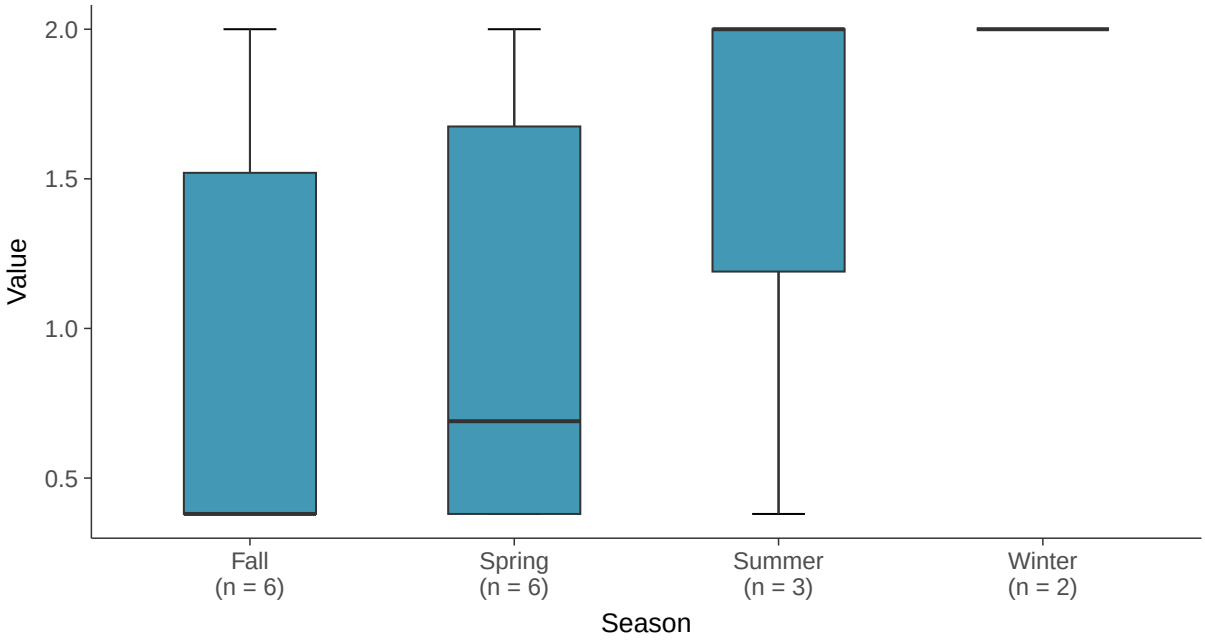
Boxplot

Thallium, MW-17006 (ug/L)



Boxplot by Season

Thallium, MW-17006 (ug/L)



Trend Regression: Piecewise Linear-Linear

Thallium, MW-17006 (ug/L)